# WSU - GATEWAY THEATER COMPLEX

WAYNE STATE UNIVERSITY

HamiltonAnderson
architecture landscape architecture urban design
HGA
420 NORTH 5TH STREET, SUITE 100
MINNEAPOLIS, MINNESOTA 55401
TELEPHONE: 612.758.4000

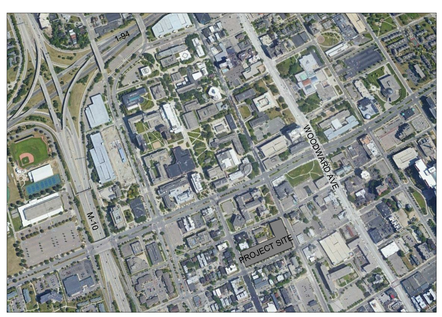
## Detroit, MI

4715 CASS AVENUE & 4743 CASS AVENUE
WAYNE STATE PROJECT NO. 189-178578

HAMILTON ANDERSON PROJECT NO. 2016034.00

100% DESIGN DEVELOPMENT - JAN 30, 2019

## LOCATION MAP:




NORTH

## SITE MAP:

NORTH

## PROJECT CONTACTS:

### OWNER

Wayne State University FP&M
5454 Cass Ave.
Detroit, MI 48202

313.577.4310

### CONTRACTOR

Walbridge
777 Woodward Ave. Suite 300
Detroit, MI 48226

313.963.8000
www.walbridge.com

### DESIGN ARCHITECT MEP ENGINEER

HGA
420 5th Street N, Suite 100
Minneapolis, MN 55401

612.758.4000
www.hga.com

### CIVIL ENGINEER

Spalding DeDecker
905 South Blvd East
Rochester Hills, MI 48307

800.598.1600
www.sda-eng.com

### EXECUTIVE ARCHITECT LANDSCAPE ARCHITECT

Hamilton Anderson Associates
1435 Randolph St., Suite 200
Detroit, MI 48226

313.887.6298
www.hamilton-anderson.com

### STRUCTURAL ENGINEER

DESI / NASR Consulting Engineers
6765 Daly Road
West Bloomfield, MI 48322

248.392.2010
www.desainasr.com

### THEATRICAL / LIGHTING

Theatrical: Auerbach Pollock Friedlander
266 West 37th Street
New York, NY 10018
212.764.5630

Lighting: Auerbach Glasow
1045 Sansome Street, Suite 300
San Fransisco, CA 94111
415.392.7528

www.auerbachconsultants.com

### ACOUSTICS

Jaffe Holden
114-A Washington Street
Norwalk, CT 06864

203.838.4168
www.jaffeholden.com

Sheet Size: 30" x 42"
: Template Version

| Sheet Number | Sheet Name | Sheet Issue Date | Sheet Issue Description |
|---|---|---|---|

COVER

| | | | |
|---|---|---|---|
| CS.1 | COVER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

GENERAL

| | | | |
|---|---|---|---|
| CS.2 | DRAWING INDEX | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| CS.3 | ABBREVIATIONS AND SYMBOLS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| CS.4 | MOUNTING HEIGHTS & CLEARANCES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| CS.5 | MATERIAL IDENTIFICATION CODES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| CS.6 | MATERIAL IDENTIFICATION CODES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

CIVIL

| | | | |
|---|---|---|---|
| C2.1 | DEMOLITION PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| C2.2 | UTILITY PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| C2.3 | COMBINED SEWER PROFILE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| C2.4 | PAVING, LAYOUT AND GRADING PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| C2.5 | PAVING DETAILS AND NOTES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| C2.6 | SOIL EROSION AND SEDIMENTATION CONTROL PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

LANDSCAPE

| | | | |
|---|---|---|---|
| L0.0 | SITE KEY PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L1.1 | SITE MATERIALS PLAN - AREA B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L1.2 | SITE MATERIALS PLAN - AREA C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L1.3 | SITE MATERIALS PLAN - AREA D | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L3.1 | LANDSCAPE PLAN - AREA B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L3.2 | LANDSCAPE PLAN - AREA C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L3.3 | LANDSCAPE PLAN - AREA D | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L4.0 | SITE SECTION | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L5.0 | SITE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| L6.0 | LANDSCAPE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| IR1.1 | IRRIGATION PLAN - AREA B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| IR1.2 | IRRIGATION PLAN - AREA C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| IR1.3 | IRRIGATION PLAN - AREA D | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

ARCHITECTURAL

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|---|---|---|---|
| AG.0.1 | CODE SUMMARY - NEW CONSTRUCTION | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AG.0.1.1 | CODE SUMMARY - NEW CONSTRUCTION | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AG.1.0 | LOWER LEVEL LIFE SAFETY PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AG.1.1 | LEVEL ONE LIFE SAFETY PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AG.1.2 | LEVEL TWO LIFE SAFETY PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A0.0 | COMPOSITE LOWER LEVEL PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A0.1 | COMPOSITE LEVEL ONE PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A0.2 | COMPOSITE LEVEL TWO PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A0.3 | COMPOSITE ROOF PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A1.0B | LOWER LEVEL PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A1.1B | LEVEL ONE PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A1.1C | LEVEL ONE PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A1.2B | LEVEL TWO PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A1.2C | LEVEL TWO PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A1.3B | TECH LEVEL FLOOR PLAN -SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A1.4B | ROOF PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A1.4C | ROOF PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A2.0.0 | COMPOSITE LOWER LEVEL REFLECTED CEILING PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A2.0.1 | COMPOSITE LEVEL ONE REFLECTED CEILING PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A2.0.2 | COMPOSITE LEVEL TWO REFLECTED CEILING PLAN | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A2.0B | LOWER LEVEL REFLECTED CEILING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A2.1B | LEVEL ONE REFLECTED CEILING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A2.1C | LEVEL ONE REFLECTED CEILING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A2.2B | LEVEL TWO REFLECTED CEILING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A2.2C | LEVEL TWO REFLECTED CEILING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A3.1.1 | BUILDING ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A3.1.3 | BUILDING ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A3.1.4 | BUILDING ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A3.1.5 | BUILDING ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A3.1.6 | BUILDING ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A3.1.7 | BUILDING ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A3.3.1 | BUILDING SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.0.1 | EXTERIOR WALL TYPES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.1.1 | WALL SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.1.2 | WALL SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.1.3 | WALL SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.1.4 | WALL SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.1.5 | WALL SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.2.1 | SECTION DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.4.1 | ROOF DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A4.4.2 | MISC. ROOF DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A5.2.1 | STAIR DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.1 | ENLARGED PLANS - PROSCENIUM THEATER LEVEL ONE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.2 | ENLARGED PLANS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.3 | ENLARGED PLANS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.4 | ENLARGED PLANS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.5 | ENLARGED RCP- PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.6 | ENLARGED RCP- PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.7 | INTERIOR SECTION - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.8 | INTERIOR SECTION - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.9 | INTERIOR ELEVATION - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.10 | INTERIOR ELEVATIONS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.11 | WD FAB-6 DETAILS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.12 | WD FAB-3 & 4 ELEVATIONS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.13 | WALL SECTIONS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.14 | INTERIOR DETAILS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.1.18 | TYPICAL CATWALK & THEATER DETAILS - PROSCENIUM THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.2.1 | ENLARGED FLOOR PLAN - STUDIO THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.2.2 | ENLARGED FLOOR PLAN - STUDIO THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.2.3 | ENLARGED FLOOR PLAN - STUDIO THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.2.4 | ENLARGED RCP'S- STUDIO THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.2.5 | SECTION & INTERIOR ELEVATION - STUDIO THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.2.8 | TYPICAL THEATER DETAILS - STUDIO THEATER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.3.1 | INTERIOR ELEVATIONS - LOBBY | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.3.2 | INTERIOR ELEVATIONS - LOBBY | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.3.3 | SECTIONS & ENLARGED PLANS - LOBBY | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.3.4 | DEVICE DIAGRAMS - LOBBY | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.3.5 | INTERIOR DETAILS - LOBBY | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.5.1 | ENLARGED TOILET ROOM PLANS AND ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.5.2 | ENLARGED TOILET ROOM PLANS AND ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.6.1 | INTERIOR ELEVATIONS - PRODUCTION WING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.6.2 | INTERIOR ELEVATIONS - PRODCUTION WING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.6.3 | INTERIOR ELEVATIONS - PRODUCTION WING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A6.6.4 | INTERIOR ELVATIONS/ INTERIOR SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.1.1 | DOOR SCHEDULE - NEW CONSTRUCTION | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.1.3 | DOOR & FRAME TYPES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.4.1 | INTERIOR PARTITIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.4.2 | FRAMING DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.4.4 | TYPICAL RATED ASSEMBLIES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.4.5 | PARTITION HEAD DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.5.1 | INTERIOR FLOOR DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.5.2 | INTERIOR DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.5.4 | INTERIOR CEILING DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.6.1 | CASEWORK DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.6.2 | CASEWORK DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.6.3 | DETAILS/ SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.7.0B | LOWER LEVEL FINISH & SIGNAGE PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.7.1B | LEVEL ONE FINISH & SIGNAGE PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.7.1C | LEVEL ONE FINISH & SIGNAGE PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.7.2B | LEVEL TWO FINISH & SIGNAGE PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.7.2C | LEVEL TWO FINISH & SIGNAGE PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.8.1 | INTERIOR SIGNAGE SCHEDULES, ELEVATIONS & DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| A7.9.1C | LEVEL ONE EQUIPMENT & FURNITURE PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

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STRUCTURAL

| | | | |
|---|---|---|---|
| S0.1 | STRUCTURAL COVER SHEET | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S0.2 | GENERAL STRUCTURAL NOTES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S0.3 | GENERAL STRUCTURAL NOTES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S0.4 | SPECIAL INSPECTION REQUIREMENTS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.0B | FOUNDATION PLAN LOWER LEVEL - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.1B | FOUNDATION AND FIRST FLOOR FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.1C | FOUNDATION AND FIRST FLOOR FRAMING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.2B | UPPER LEVEL(ST) & BACKROW FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.3B | LEVEL TWO & LINK ROOF FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.3C | LEVEL TWO FRAMING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.4B | CONTROL ROOM LEVEL & TECH GALLERY FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.6C | SHOP ROOF FRAMING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.7B | MAIN ROOF, LOBBY ROOF, AND CATWALK FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.7C | MAIN ROOF FRAMING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.8B | HALL ROOF FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.9B | GRID IRON & STAGE HOUSE ROOF FRAMING PLANS - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.1B | STRUCTURAL ELEVATIONS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.1C | BRACED FRAMES AND STRUCTURAL ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.2B | STRUCTURAL ELEVATIONS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.10B | TRUSS ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.11B | TRUSS ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S3.0C | TYPICAL CONCRETE DETAILS AND SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S3.1 | TYPICAL CONCRETE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S5.0 | STEEL COLUMN SCHEDULES SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S5.0C | TYPICAL STEEL DETAILS AND SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S5.1C | TYPICAL STEEL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.1C | GENERAL SECTIONS AND DETAILS SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.2B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.2C | GENERAL SECTIONS AND DETAILS SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.3B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.3C | GENERAL SECTIONS AND DETAILS SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.4B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.5B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.6B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.7B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.8B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.9B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

MECHANICAL

| | | | |
|---|---|---|---|
| M0.0 | MECHANICAL GENERAL NOTES AND SYMBOLS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M2.0B | LOWER LEVEL HVAC - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M2.1B | LEVEL ONE HVAC - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M2.1C | LEVEL ONE HVAC - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M2.2B | LEVEL TWO HVAC - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M2.2C | LEVEL TWO HVAC - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M2.3B | TECH LEVEL HVAC - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M2.4 | ROOF PLAN OVERALL | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M3.0B | LOWER LEVEL MECHANICAL PIPING - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M3.1B | LEVEL ONE MECHANICAL PIPING - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M3.1C | LEVEL ONE MECHANICAL PIPING - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M3.2B | LEVEL TWO MECHANICAL PIPING - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M3.2C | LEVEL TWO MECHANICAL PIPING - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M5.0 | MECHANICAL BUILDING SECTIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M6.0 | CHILLED WATER SYSTEM SCHEMATIC & CONTROLS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M6.1 | HEATING WATER SYSTEM SCHEMATIC & CONTROLS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M6.2 | VRF SYSTEM SCHEMATIC | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M7.0 | MECHANICAL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M7.1 | MECHANICAL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M7.2 | MECHANICAL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M7.3 | MECHANICAL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M7.4 | MECHANICAL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M7.10 | MECHANICAL AIR HANDLING UNIT DETAILS - BASE BID | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M7.11 | MECHANICAL AIR HANDLING UNIT DETAILS - ALTERNATE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M8.0 | MECHANICAL SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M8.1 | MECHANICAL SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| M8.2 | MECHANICAL SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

FIRE PROTECTION

| | | | |
|---|---|---|---|
| F0.0 | FIRE PROTECTION GENERAL NOTES AND SYMBOLS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| F1.0BC | LOWER LEVEL - SECTOR B AND C PLAN - FIRE PROTECTION | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| F1.1BC | LEVEL ONE - SECTOR B AND C - FIRE PROTECTION | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| F1.2BC | LEVEL TWO - SECTOR B AND C - FIRE PROTECTION | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| F7.0 | FIRE PROTECTION SCHEDULES AND DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

PLUMBING

| | | | |
|---|---|---|---|
| P0.0 | PLUMBING GENERAL NOTES AND SYMBOLS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P0.0B | UNDERGROUND PLAN - SECTOR B - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P0.0C | UNDERGROUND PLAN - SECTOR C - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P1.0B | LOWER LEVEL PLAN - SECTOR B - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P1.1B | LEVEL ONE PLAN - SECTOR B - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P1.1C | LEVEL ONE PLAN - SECTOR C - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P1.2B | LEVEL TWO PLAN - SECTOR B - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P1.2C | LEVEL TWO PLAN - SECTOR C - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P1.4B | ROOF PLAN - SECTOR B - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P1.4C | ROOF PLAN - SECTOR C - PLUMBING | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P7.0 | PLUMBING DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P7.1 | PLUMBING DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P8.0 | PLUMBING SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| P8.1 | PLUMBING SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

ELECTRICAL

| | | | |
|---|---|---|---|
| E0.0 | ELECTRICAL SYMBOLS AND SHEET INDEX | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E0.1 | ELECTRICAL GENERAL NOTES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E0.3 | HILBERRY ELECTRICAL ONE-LINE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E2.0B | LOWER LEVEL LIGHTING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E2.1B | LEVEL ONE LIGHTING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E2.1C | LEVEL ONE LIGHTING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E2.2B | LEVEL TWO LIGHTING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E2.2C | LEVEL TWO LIGHTING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E2.3B | CONTROL LEVEL LIGHTING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E2.4B | TECH LEVEL LIGHTING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E3.0B | LOWER LEVEL POWER PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E3.1B | LEVEL ONE POWER PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E3.1C | LEVEL ONE POWER PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E3.2B | LEVEL TWO POWER PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E3.2C | LEVEL TWO POWER PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E3.3B | CONTROL LEVEL POWER PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E3.4B | TECH LEVEL POWER PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E3.5B | GRIDIRON LEVEL POWER PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E4.0B | LOWER LEVEL SYSTEMS PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E4.1B | LEVEL ONE SYSTEMS PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E4.1C | LEVEL ONE SYSTEMS PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E4.2B | LEVEL TWO SYSTEMS PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E4.2C | LEVEL TWO SYSTEMS PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E4.3B | CONTROL LEVEL SYSTEMS PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E4.4B | TECH LEVEL SYSTEMS PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E4.5B | GRIDIRON LEVEL SYSTEMS PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E5.0A | LUMINAIRE SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E5.0B | LUMINAIRE SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E5.1 | ELECTRICAL EQUIPMENT SCHEDULE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E5.2 | ELECTRICAL PANEL SCHEDULE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E5.3 | ELECTRICAL PANEL SCHEDULE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E5.4 | ELECTRICAL PANEL SCHEDULE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E5.5 | ELECTRICAL PANEL SCHEDULE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E5.6 | ELECTRICAL PANEL SCHEDULE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E6.0 | ELECTRICAL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E6.1 | ELECTRICAL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E6.2 | ELECTRICAL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E7.0 | SYSTEMS DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| E7.1 | TELECOM ENLARGED PLANS AND DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| EM8.0 | ELECTRICAL MECHANICAL COORDINATION SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| EM8.1 | ELECTRICAL MECHANICAL COORDINATION SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

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| Sheet Number | Sheet Name | Sheet Issue Date | Sheet Issue Description |
|---|---|---|---|

SECURITY

| | | | |
|---|---|---|---|
| TC501 | SECURITY LEGENDS, SCHEDULES & DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TC502 | ACCESS CONTROL RACEWAY DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TC503 | | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TC504 | VIDEO SECURITY RACEWAY AND INSTALLATION DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TC505 | VIDEO SECURITY ONE-LINE DIAGRAMS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TC902B | TECHNOLOGY PLAN - LEVEL ONE, AREA B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TC902C | TECHNOLOGY PLAN - LEVEL ONE, AREA C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

AUDIO / VISUAL

| | | | |
|---|---|---|---|
| AV0.1 | AV GENERAL NOTES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV0.2 | AV SYMBOLS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV0.3 | AV SCHEDULES 1 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV0.4 | AV SCHEDULES 2 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV1.0B | AV - LOWER LEVEL PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV1.1B | AV - LEVEL ONE PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV1.1C | AV - LEVEL ONE PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV1.2B | AV - UPPER LEVEL PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV1.3B | AV - CONTROL ROOM LEVEL PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV1.4B | AV - TECHNICAL LEVEL PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV1.5B | AV - GRIDIRON LEVEL PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV2.1B | AV - LEVEL ONE REFLECTED CEILING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV2.1C | AV - LEVEL ONE REFLECTED CEILING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV2.2B | AV - UPPER LEVEL REFLECTED CEILING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV2.3B | AV - CONTROL LEVEL REFLECTED CEILING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.1 | AV PLATES AND PANELS 1 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.2 | AV PLATES AND PANELS 2 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.3 | AV PLATES AND PANELS 3 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.4 | AV PLATES AND PANELS 4 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.5 | AV PLATES AND PANELS 5 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.6 | AV PLATES AND PANELS 6 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.7 | AV PLATES AND PANELS 7 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.8 | AV PLATES AND PANELS 8 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.9 | AV PLATES AND PANELS 9 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.10 | AV PLATES AND PANELS 10 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| AV9.11 | AV PLATES AND PANELS 11 | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

THEATRICAL DRAPERY

| | | | |
|---|---|---|---|
| TD1.0B | THEATRICAL DRAPERY PLAN LOWER LEVEL - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TD1.1B | THEATRICAL DRAPERY PLAN LEVEL ONE - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TD3.11 | THEATRICAL DRAPERY CENTERLINE SECTION - PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TD3.21 | THEATRICAL DRAPERY SECTIONS - STUDIO THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TD8.1 | THEATRICAL DRAPERY SCHEDULE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

THEATRICAL LIGHTING SYSTEMS

| | | | |
|---|---|---|---|
| TL1.0B | THEATRICAL LIGHTING SYSTEM PLAN LOWER LEVEL - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL1.1B | THEATRICAL LIGHTING SYSTEM PLAN LEVEL ONE - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL1.1C | THEATRICAL LIGHTING SYSTEM PLAN LEVEL ONE - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL1.2B | THEATRICAL LIGHTING SYSTEM PLAN LEVEL TWO - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL1.2.1B | THEATRICAL LIGHTING SYSTEM PLAN TENSION WIRE GRID LEVEL - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL1.3B | THEATRICAL LIGHTING SYSTEM PLAN TECH LEVEL - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL1.4B | THEATRICAL LIGHTING SYSTEM PLAN GRID LEVEL - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL2.1B | THEATRICAL LIGHTING SYSTEM RCP LEVEL ONE - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL2.2C | THEATRICAL LIGHTING SYSTEM RCP LEVEL TWO - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL4.1 | THEATRICAL LIGHTING SYSTEM DETAIL PLANS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL5.1 | THEATRICAL LIGHTING SYSTEM CONTROL DEVICE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL5.2 | THEATRICAL LIGHTING SYSTEM CONTROL DEVICE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL5.3 | THEATRICAL LIGHTING SYSTEM DISTRIBUTION DEVICE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL5.4 | THEATRICAL LIGHTING SYSTEM DISTRIBUTION DEVICE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL5.5 | THEATRICAL LIGHTING SYSTEM DISTRIBUTION DEVICE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL6.1 | THEATRICAL LIGHTING CONTROL SYSTEM RISER - PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL6.2 | THEATRICAL LIGHTING CONTROL SYSTEM RISER - STUDIO THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL6.4 | ARCHITECTURAL LIGHTING CONTROL BLOCK DIAGRAM - PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL6.5 | ARCHITECTURAL LIGHTING CONTROL BLOCK DIAGRAM - STUDIO THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL8.1 | THEATRICAL LIGHTING SCHEDULES PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TL8.2 | THEATRICAL LIGHTING SCHEDULES STUDIO THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

THEATRICAL PLATFORMING

| | | | |
|---|---|---|---|
| TP1.12B | THEATRICAL PLATFORMING PLAN - PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TP1.21B | THEATRICAL PLATFORMING PLAN - STUDIO THEATRE - ALLEY | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TP1.22B | THEATRICAL PLATFORMING PLAN - STUDIO THEATRE - ARENA | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

THEATRICAL MACHINERY

| | | | |
|---|---|---|---|
| TE1.0B | ORCHESTRA LIFT PLAN LOWER LEVEL - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TE1.1B | ORCHESTRA LIFT PLAN LEVEL ONE - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TE3.1B | ORCHESTRA SECTIONS - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TE5.1 | ORCHESTRA LIFT DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TE6.1 | ORCHESTRA LIFT RISER | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

THEATRICAL RIGGING

| | | | |
|---|---|---|---|
| TR1.11B | THEATRICAL RIGGING PLAN LL / LEVEL ONE - PROSCENIUM THEATRE SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR1.12B | THEATRICAL RIGGING PLAN LEVEL TWO - PROSCENIUM THEATRE SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR1.13B | THEATRICAL RIGGING PLAN TECH LEVEL - PROSCENIUM THEATRE SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR1.14B | THEATRICAL RIGGING PLAN GRID LEVEL - PROSCENIUM THEATRE SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR1.1C | THEATRICAL RIGGING PLAN LEVEL ONE - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR1.21B | THEATRICAL RIGGING PLAN LEVEL ONE - STUDIO THEATRE SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR1.22B | THEATRICAL RIGGING PLAN LEVEL TWO - STUDIO THEATRE SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR2.2C | THEATRICAL RIGGING RCP LEVEL TWO - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR3.11B | THEATRICAL RIGGING CENTERLINE SECTION PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR3.12B | THEATRICAL RIGGING TRANSVERSE SECTION TYPICAL LINESET PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR3.13B | THEATRICAL RIGGING TRANSVERSE SECTION SAFETY CURTAIN PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR3.21B | THEATRICAL RIGGING SECTIONS STUDIO THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR3.31C | THEATRICAL RIGGING SECTIONS PAINT SHOP | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR5.1 | THEATRICAL RIGGING DETAILS PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR5.2 | THEATRICAL RIGGING DETAILS PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR5.3 | THEATRICAL RIGGING SAFETY CURTAIN DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR5.4 | THEATRICAL RIGGING DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR5.5 | THEATRICAL RIGGING TENSION WIRE GRID DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR5.6 | THEATRICAL RIGGING DRAPERY TRACK DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR6.1 | THEATRICAL RIGGING SYSTEM RISER PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR6.2 | THEATRICAL RIGGING SYSTEM RISER PAINT SHOP | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TR8.1 | THEATRICAL RIGGING LINESET SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

THEATRICAL AUDITORIUM SEATING

| | | | |
|---|---|---|---|
| TS1.11B | THEATRICAL SEATING LAYOUT PLAN - PROSCENIUM THEATRE, LEVEL ONE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TS1.12B | THEATRICAL SEATING LAYOUT PLAN - PROSCENIUM THEATRE, CONTROL ROOM LEVEL | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TS1.21B | THEATRICAL SEATING LAYOUT PLAN - STUDIO THEATRE, LEVEL ONE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TS1.22B | THEATRICAL SEATING LAYOUT PLAN - STUDIO THEATRE, CONTROL ROOM LEVEL | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TS1.23B | THEATRICAL SEATING LAYOUT PLAN - ALLEY, STUDIO THEATRE, LEVEL ONE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TS1.24B | THEATRICAL SEATING LAYOUT PLAN - ALLEY, STUDIO THEATRE, CONTROL ROOM LEVEL | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TS3.11B | THEATRICAL SEATING CENTERLINE SECTION - PROSCENIUM THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TS3.21B | THEATRICAL SEATING CENTERLINE SECTIONS - STUDIO THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| TS3.22B | THEATRICAL SEATING TRANSVERSE SECTION - STUDIO THEATRE | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |

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HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

Owner: Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor: Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect: Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect: HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer: HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer: DESAI / NASR Consulting Engineers Inc., 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer: Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect: Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

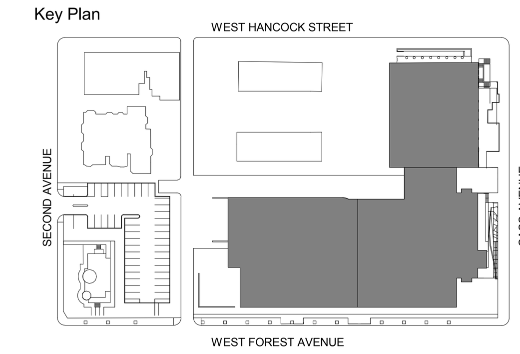
Theatrical: Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting: Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV: Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# DRAWING INDEX

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

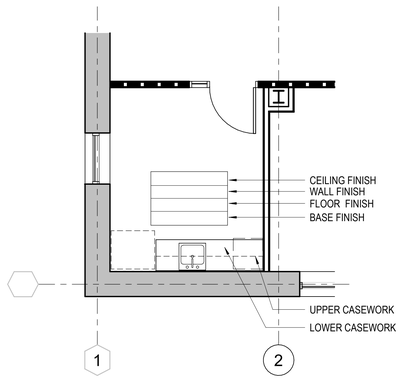
Signature:

Drawing No:

CS.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




1 SYMBOL DESIGNATIONS - FINISH PLAN
1/4" = 1'-0"

## REFERENCE SYMBOLS

| | | |
|---|---|---|
| SHEET IDENTIFICATION<br>IDENTIFICATION NUMBER (NUMBER ON SHEET WHERE DRAWN)<br>1 View Name<br>A102 A101 1/8" = 1'-0"<br>SHEET IDENTIFICATION (INDICATES SHEET WHERE DRAWN) | ROOM NAME AND NUMBER IDENTIFICATION<br>Room name<br>101 | REVISION IDENTIFICATION<br>1 |
| DETAIL & ENLARGED PLAN LOCATION INDICATION<br>SIMILAR TO IDENTIFIED DETAIL<br>IDENTIFICATION NUMBER (NUMBER ON SHEET WHERE DRAWN)<br>1 SIM<br>A101<br>SHEET IDENTIFICATION (INDICATES SHEET WHERE DRAWN) | DOOR IDENTIFICATION<br>OPENINGS (DOOR & BORROWED LIGHT) SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE OPENINGS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL OPENING REQUIRED.<br>001<br>101 / 101A / 101B FOR NUMBER NEEDED | REVISION CLOUD IDENTIFICATION |
| SECTION INDICATION<br>1 (SIM)<br>A101 | WINDOW IDENTIFICATION<br>1ti | |
| ELEVATION INDICATION<br>INDICATES DIRECTION OF VIEW<br>IDENTIFICATION NUMBER (NUMBER ON SHEET WHERE DRAWN)<br>SHEET IDENTIFICATION (INDICATES SHEET WHERE DRAWN)<br>A101 1 2 3 4 A101 1 | WALL IDENTIFICATION<br>WALL CONSTRUCTION TYPE NUMBER AS SEEN ON WALL TYPE SHEET.<br>1i<br>DESCRIPTION STARTS AT WALL SURFACE DESIGNATED | |
| COLUMN INDICATION<br>COLUMN IDENTIFICATION FOR NEW CONSTRUCTION<br>H<br>H<br>COLUMN IDENTIFICATION FOR EXISTING CONSTRUCTION | CEILING HEIGHT IDENTIFICATION<br>9' - 0" | |
| NORTH INDICATION | DIMENSION LINE IDENTIFICATION<br>DIMENSION | |
| LEVEL INDICATION<br>Name<br>Elevation | MATCHLINE IDENTIFICATION<br>SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER OF DRAWING)<br>A-101.01 MATCH LINE<br>A-101.01 MATCH LINE<br>A-102.01<br>SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE DRAWN)<br>A-102.01 | |

| | |
|---|---|
| AB | ANCHOR BOLT |
| ABR | ABRASIVE |
| ABV | ABOVE |
| AC | ACOUSTIC/ACOUSTICAL |
| A/C | AIR CONDITIONING |
| ACC | ACCESS |
| ACH | AIR CONDITIONING UNIT |
| ADD | ADDENDUM |
| ADDN | ADDITION |
| ADDNL | ADDITIONAL |
| ADH | ADHESIVE |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISH FLOOR |
| AGGR | AGGREGATE |
| AHU | AIR HANDLING UNIT |
| ALT | ALTERNATE |
| ALUM/AL | ALUMINUM |
| AMP | AMPERE |
| AMT | AMOUNT |
| ANCH | ANCHOR |
| & | AND |
| ANOD | ANODIZED |
| AP | ACCESS PANEL |
| APPD | APPROVED |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECT/ARCHITECTURAL |
| ASPH | ASPHALT |
| ASSY | ASSEMBLY |
| @ | AT |
| AUTO | AUTOMATIC |
| AVG | AVERAGE |
| B/B | BACK TO BACK |
| BBD | BULLETIN BOARD |
| BD | BOARD |
| BETW | BETWEEN |
| BF | BARRIER FREE |
| BIT | BITUMINOUS |
| BJF | BITUMINOUS JOINT FILLER |
| BLDG | BUILDING |
| BLK | BLOCK/BLOCKING |
| BLVD | BOULEVARD |
| BM | BEAM/BENCHMARK |
| BOT | BOTTOM |
| BPL | BASE PLATE |
| BR | BEDROOM/BRASS/BULLET RESISTANT |
| BRG | BEARING |
| BRK | BRICK |
| BRL | BEARING PLATE |
| BS | BOTH SIDES |
| BSMT | BASEMENT |
| BTU | BRITISH THERMAL UNIT |
| BULL | BULLETIN |
| BUR | BUILT-UP ROOF |
| BW | BOTH WAYS |
| CA | COMPRESSED AIR |
| CAB | CABINET |
| CAT | CATALOG NUMBER |
| CB | CATCH BASIN/CHALKBOARD |
| C/C | CENTER TO CENTER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CEM | CEMENT |
| CER | CERAMIC |
| CF | CUBIC FEET |
| CFL | COUNTER FLASHING |
| CFM | CUBIC FEET PER MINUTE |
| CG | CORNER GUARD |
| CH | COAT HOOK |
| CI | CAST IRON |
| CIP | CAST IRON PIPE/CAST IN PLACE |
| CIR | CIRCLE/CIRCULAR |
| CJ | CONTROL JOINT |
| CL | CENTERLINE/CLASS |
| CLG | CEILING |
| CLL | CONTRACT LIMIT LINE |
| CLOS | CLOSET |
| CLR | CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| CNL | CHANNEL |
| CNTR | COUNTER |
| CO | CLEAN OUT/COMPANY |
| COL | COLUMN |
| COMP | COMPOSITION/COMPOSITE |
| CONC | CONCRETE |
| COND | CONDUIT |
| CONF | CONFERENCE |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUE/CONTINUOUS |
| CONTR | CONTRACTOR |
| CORR | CORRIDOR/CORRUGATED |
| CP | CONTROL PANEL |
| CPL | CEMENT PLASTER |
| CSK | COUNTERSINK |
| CTR | CENTER/CENTERED |
| CUH | CABINET UNIT HEATER |
| CW | COLDWATER |
| CY | CUBIC YARD |
| CYC | CYCLES |
| CYL | CYLINDER |
| D | DEEP/DEPTH |
| DA | DOUBLE ACTING |
| DB | DECIBEL |
| DBL | DOUBLE |
| DES | DESIGN |
| DET | DETAIL |
| DF | DRINKING FOUNTAIN |
| DH | DOUBLE HUNG |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIFF | DIFFUSER |
| DIM | DIMENSION |
| DISC | DISCONNECT |
| DISP | DISPENSER/DISPOSAL |
| DIV | DIVIDER/DIVISION |
| DL | DEAD LOAD |
| DN | DOWN |
| DO | DITTO |
| DP | DAMPPROOFING |
| DR | DOOR/DRAIN/DINING ROOM |
| DRN | DRAIN |
| DS | DOWN SPOUT |
| DT | DRAIN TILE |
| DUP | DUPLICATE |
| DW | DISHWASHER |
| DWG | DRAWING |
| E | EAST |
| EA | EACH |
| EB | EXPANSION BOLT |
| EC | ELECTRICAL CONTACTOR/EXPOSED |
| CONSTRUCTION | |
| E/E | END TO END |
| EE | EACH END |
| EF | EACH FACE/EXHAUST FAN |
| EG | EXHAUST GRILLE |
| EIFS | EXTERIOR INSULATION AND FINISH SYSTEM |
| EJ | EXPANSION JOINT |
| EJF | EXPANSION JOINT FILLER |
| EL/ELEV | ELEVATION/ELEVATOR |
| ELAST | ELASTOMERIC |
| ELEC | ELECTRIC/ELECTRICAL |
| EMER | EMERGENCY |
| ENCL | ENCLOSURE/ENCLOSED |
| ENTR | ENTRANCE/ENTRY |
| EP | ELECTRICAL PANEL |
| EPDM | ETHYLENE PROPYLENE DIENE MONOMER |
| EQ | EQUAL/EQUIVALENT |
| EQUIP | EQUIPMENT |
| ER | EXHAUST REGISTER |
| ESC | ESCALATOR |
| EST | ESTIMATE |
| ETC | ETCETERA |
| EW | EACH WAY |
| EWC | ELECTRIC WATER COOLER |
| EX | EXPOSED |
| EXC | EXCAVATED |
| EXH | EXHAUST |
| EXIST | EXISTING |
| EXP | EXPANSION |
| EXT | EXTERIOR |

| | |
|---|---|
| F | DEGREES FAHRENHEIT |
| FA | FIRE ALARM |
| FAB | FABRICATED |
| FACP | FIRE ALARM CONTROL PANEL |
| FAS | FASTENER |
| FD | FLOOR DRAIN |
| FDAPR | FIRE DAMPER |
| FDC | FIRE DEPARTMENT CONNECTION |
| FDN | FOUNDATION |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FF | FACTORY FINISH |
| F/F | FACE TO FACE/FINISH TO FINISH |
| FFE | FINISH FLOOR ELEVATION |
| FF&E | FIXTURES, FURNISHINGS AND EQUIPMENT |
| FH | FIRE HYDRANT |
| FHC | FIRE HOSE CABINET |
| FIG | FIGURE |
| FIN | FINISH/FINISHED |
| FIN FLR/FF | FINISH FLOOR |
| FIXT | FIXTURE |
| FLASH | FLASHING |
| FLG | FLOORING/FLASHING/FLANGE |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| FPM | FEET PER MINUTE |
| FPR | FIREPROOF/FIREPROOFING |
| FR | FIRE RETARDANT |
| FRM | FRAME |
| FS | FULL SIZE |
| FT | FEET/FOOT |
| FTG | FOOTING |
| FTP | FULLY TEMPERED |
| FTR | FINNED TUBE RADIATION |
| FURN | FURNISH/FURNISHED |
| FURR | FURRING/FURRED |
| FUT | FUTURE |
| FVC | FIRE VALVE CABINET |
| FVS | FIRE VALVE STATION |
| G | GAS |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GB | GRAB BAR |
| GC | GENERAL CONTRACTOR |
| GENL | GENERAL |
| GF | GROUND FACE |
| GFRC | GLASS FIBER REINFORCED CONCRETE |
| GL | GLASS/GRID LINE |
| GND | GROUND |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GWB | GYPSUM WALL BOARD |
| GYP | GYPSUM |
| H | HIGH |
| HB | HOSE BIBB |
| HC | HOLLOW CORE |
| HD | HEAVY DUTY |
| HDWD | HARDWOOD |
| HDWE | HARDWARE |
| HEX | HEXAGON |
| HHWR | HEATING HOT WATER RETURN |
| HHWS | HEATING HOT WATER SUPPLY |
| HM | HOLLOW METAL |
| HORIZ | HORIZONTAL |
| HP | HIGH POINT/HORSE POWER/HIGH PRESSURE |
| HR | HOUR |
| HS | HEAT STRENGTHENED |
| HT | HEIGHT |
| HTG | HEATING |
| HTR | HEATER |
| H/V | HEATING AND VENTILATION |
| HVAC | HEATING, VENTILATING AND AIR CONDITIONING |
| HVC | HOSE VALVE CABINET |
| HW | HOT WATER |
| HWH | HOT WATER HEATER |
| ID | IDENTIFICATION/INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IN or " | INCH/INCHES |
| INCAND | INCANDESCENT |
| INCL | INCLUDE/INCLUDING |
| INFO | INFORMATION |
| INSUL | INSULATATE/INSULATION |
| INT | INTERIOR/INTERNAL |
| INTER | INTERMEDIATE |
| INV | INVERT |
| IS | INSIDE |
| JB | JUNCTION BOX/JOINT BACKER |
| JC | JANITOR CLOSET |
| JF | JOINT FILLER |
| JR | JUNIOR |
| JST | JOIST |
| JT | JOINT |
| K | KIP (1000#) |
| KD | KNOCK DOWN |
| KIT | KITCHEN |
| KO | KNOCK OUT |
| KP | KICK PLATE |
| LAB | LABORATORY |
| LAM | LAMINATE/LAMINATED |
| LAV | LAVATORY |
| LEV | LEVEL |
| LF | LINEAR FEET/FOOT |
| LG | LONG |
| LH | LEFT HAND |
| LHRB | LEFT HAND REVERSE BEVEL |
| LIN | LINEAR DIFFUSER |
| LL | LIVE LOAD |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LOC | LOCATION |
| LP | LIGHTING PANEL/LOW POINT |
| LSF | LIGHT GAUGE STEEL FRAMING |
| LT | LIGHT/LAUNDRY TRAY |
| LTG | LIGHTING |
| LV | LOW VOLTAGE |
| LW | LIGHT WEIGHT |
| LWC | LIGHT WEIGHT AGGREGATE CONCRETE |
| MACH | MACHINE |
| MAINT | MAINTENANCE |
| MAS | MASONRY |
| MATL | MATERIAL |
| MAU | MAKE-UP AIR UNIT |
| MAX | MAXIMUM |
| MC | MEDICINE CABINET/MECHANICAL CONTRACTOR |
| MCC | MOTOR CONTROL CENTER |
| MDOT | MICHIGAN DEPARTMENT OF TRANSPORTATION |
| MDS | METAL DIVIDER STRIP |
| MECH | MECHANICAL |
| MED | MEDIUM |
| MEMB | MEMBRANE |
| MES | METAL EDGE STRIP |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MH | MANHOLE |
| MI | MISCELLANEOUS IRON |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MK | MARK |
| ML | METAL LATH |
| mm | MILLIMETER |
| MO | MASONRY OPENING |
| MOD | MODEL/MODULE |
| MOV | MOVEABLE |
| MT | METAL THRESHOLD |
| MTD | MOUNTED |
| MTG | MEETING |
| MTL | METAL/METTALIC |
| MTL WP | METALLIC WATERPROOFING |
| MULL | MULLION |
| N | NORTH |
| NA | NOT APPLICABLE |
| NAT | NATURAL |
| NIC | NOT IN CONTRACT |
| NO or # | NUMBER |
| NOM | NOMINAL |
| NOR | NORMAL |
| NRC | NOISE REDUCTION COEFFICIENT |
| NTS | NOT TO SCALE |
| OA | OUTSIDE AIR/OVERALL |
| OBGL | OBSCURE GLASS |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER/OUTSIDE DIMENSION |
| OF | OUTSIDE FACE DIMENSION |
| OFF | OFFICE |
| OH | OPPOSITE HAND/OVERHEAD |
| O/O | OUT TO OUT |
| OPER | OPERATOR/OPERATION |
| OPG | OPENING |
| OPP | OPPOSITE |
| ORIG | ORIGINAL |
| ORN | ORNAMENTAL |
| OZ | OUNCE |

| | |
|---|---|
| PA | PUBLIC ADDRESS |
| PASS | PASSAGE/PASSENGER |
| PBD | PARTICLE BOARD |
| PC | PIECE/PIECES/PRECAST CONCRETE |
| PCF | POUNDS PER CUBIC FOOT |
| PCP | PRECAST CONCRETE PANEL |
| PE | PASSANGER ELEVATOR |
| PERF | PERFORATED |
| PERIM | PERIMETER |
| PERM | PERMANENT |
| PERP | PERPENDICULAR |
| PG | PAGE |
| PKG | PARKING |
| PL | PLATE/PROPERTY LINE |
| PLAS | PLASTER |
| PLAT | PLATFORM |
| PLBG | PLUMBING |
| PLF | POUNDS PER LINEAR FOOT |
| PLWD | PLYWOOD |
| PNL | PANEL |
| POL | POLISHED |
| PORT | PORTABLE |
| POS | POSITION/POSITIVE |
| PR | PAIR |
| PREFAB | PREFABRICATED |
| PRL | PARALLEL |
| PROJ | PROJECT/PROJECTION |
| PROP | PROPERTY/PROPOSED |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT/PAINT |
| PTD | PAINTED |
| PTN | PARTITION |
| PVG | PAVING |
| PVC | POLYVINYLCLORIDE |
| PVMT | PAVEMENT |
| QTY | QUANTITY |
| QTR | QUARTER |
| R | RISER |
| RAD or R | RADIUS |
| RAG | RETURN AIR GRILLE |
| RC | RAIN CONDUCTOR |
| RCP | REFLECTED CEILING PLAN |
| RD | ROAD/ROOF DRAIN |
| REBAR | REINFORCEMENT BAR |
| REC | RECESS |
| RECV | RECEIVE/RECEIVING |
| REF | REFER/REFERENCE |
| REFL | REFLECTIVE/REFLECTED |
| REFR | REFRIGERATOR |
| REG | REGISTER |
| REINF | REINFORCED |
| CONCRETE/REINFORCEMENT | |
| REM | REMOVE/REMOVABLE |
| REQD | REQUIRED |
| RET | RETURN |
| REV | REVISED/REVISION |
| RFG | ROOFING |
| RH | RIGHT HAND |
| RHR | RIGHT HAND REVERSE |
| RM | ROOM |
| RND | ROUND |
| RO | ROUGH OPENING |
| ROW | RIGHT OF WAY |
| RS | ROOF SUMP |
| RTU | ROOF TOP UNIT |
| RV | ROOF VENTILATION |
| RWC | RAIN WATER CONDUCTOR |
| S | SOUTH/STORM/SINK |
| SA | SUPPLY AIR |
| SAG | SUPPLY AIR GRILLE |
| SAN | SANITARY |
| SAR | SUPPLY AIR REGISTER |
| SB | SOIL BEARING |
| SC | SOLID CORE |
| SCHED | SCHEDULE |
| SD | SUPPLY DUCT/DIFFUSER |
| SECT | SECTION |
| SF | SQUARE FEET/SQUARE FOOT/SUPPLY FAN |
| SHR | SHOWER |
| SHT | SHEET |
| SIM | SIMILAR |
| SNT | SEALANT |
| SOG | SLAB ON GRADE |
| SP | SPACING |
| SPEC | SPECIFICATION |
| SPKLR | SPRINKLER |
| SPKR | SPEAKER |
| SQ | SQUARE |
| STAG | STAGGERED |
| STC | SOUND TRANSMISSION CLASS |
| SS | SERVICE SINK |
| SST | STAINLESS STEEL |
| ST | STREET |
| STD | STANDARD |
| STIFF | STIFFENER |
| STL | STEEL |
| STM | STEAM |
| STOR | STORAGE |
| STRL | STRUCTURAL |
| SUB | SUBSTATION |
| SUPP | SUPPORT |
| SURF | SURFACE/SURFACING |
| SUSP | SUSPEND/SUSPENSION |
| SW | SWITCH |
| SYM | SYMBOL/SYMMETRICAL |
| SYS | SYSTEM |
| T | THERMOSTAT/TREAD |
| T/ | TOP OF |
| TAN | TANGENT |
| T&B | TOP AND BOTTOM |
| T&G | TONGUE AND GROOVE |
| TB | TEST BOARING/TOWEL BAR |
| TBD | TACKBOARD/TO BE DETERMINED |
| TD | TRENCH DRAIN |
| TECH | TECHNICAL |
| TEL | TELEPHONE |
| TEMP | TEMPERATURE/TEMPORARY/TEMPERED |
| THK | THICK/THICKNESS |
| THR | THRESHOLD |
| THRU | THROUGH/THROUGHOUT |
| TOS | TOP OF STEEL/TOP OF SLAB |
| TP | TANGENT POINT |
| TRAN | TRANSOM/TRANSFORMER |
| TS | TUBE SECTION/TUBE STEEL/THICKENED SLAB |
| TV | TELEVISION |
| TW | THROUGH WALL |
| TYP | TYPICAL |
| UC | UNDERCUT |
| UG | UNDERGROUND |
| UH | UNIT HEATER |
| UL | UNDERWRITER'S LABORATORY |
| ULT | ULTIMATE |
| UNEX | UNEXCAVATED |
| UNFIN | UNFINISHED |
| UON | UNLESS OTHERWISE NOTED |
| UR | URINAL |
| USGS | UNITED STATES GEOLOGICAL SURVEY |
| VAC | VACUUM |
| VAR | VARIABLE/VARIES |
| VCP | VITRIFIED CLAY PIPE |
| VENT | VENTILATE/VENTILATION |
| VERT | VERTICAL/VERTICALLY |
| VEST | VESTIBULE |
| VIF | VERIFY IN FIELD |
| VIT | VITREOUS |
| VOL | VOLUME |
| VR | VAPOR RETARDER |
| VTR | VENT THRU ROOF |
| W | WIDE/WIDTH/WEST/WASTE/WATTS |
| W/ | WITH |
| WC | WATER CLOSET |
| WCAB | WALL CABINET |
| WD | WOOD |
| WH | WALL HYDRANT |
| WIL | WORKING LINE |
| WM | WATER METER |
| WO | WINDOW OPENING |
| W/O | WITHOUT |
| WP | WATERPROOFING/WATERPROOF/WEATHERPROOF |
| WP | WORKING POINT |
| WR | WASTE RECEPTICLE/WATER RESISTANT |
| WSCT | WAINSCOT |
| WT | WEIGHT/WATERTIGHT |
| WW | WALL TO WALL |
| WWF | WELDED WIRE FABRIC |
| WWM | WELDED WIRE MESH |
| WGL | WIRE GLASS |
| YD | YARD |
| YP | YIELD POINT |
| YR | YEAR |
| YS | YIELD STRENGTH |

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESAI / NASR Consulting Engineers Inc., 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

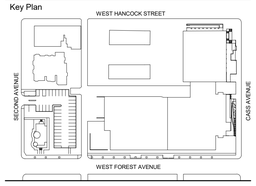
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# ABBREVIATIONS AND SYMBOLS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

CS.3

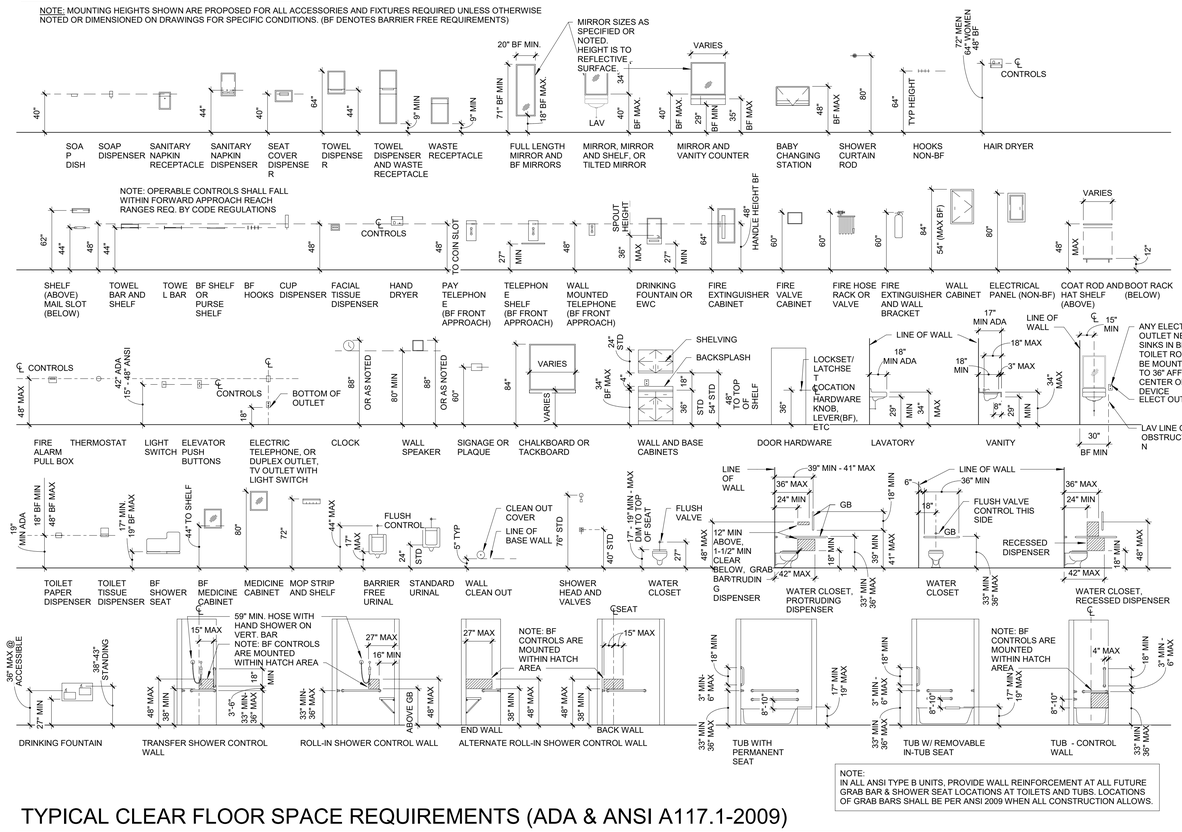
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

# TYPICAL MOUNTING HEIGHTS (ADA & ANSI A117.1-2009)

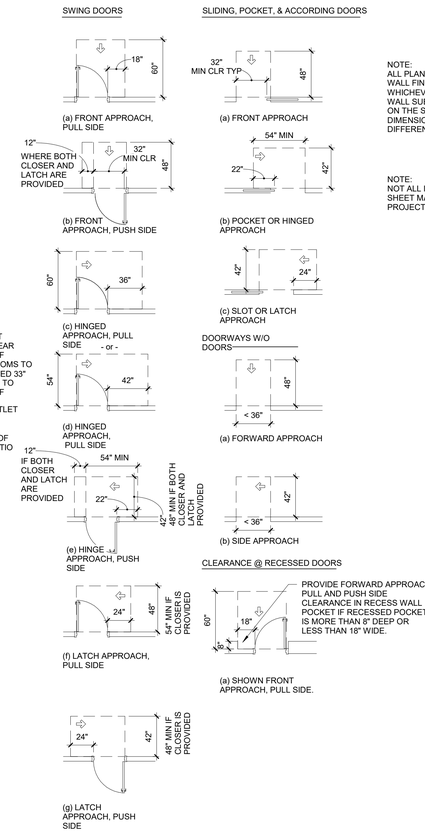
MISCELLANEOUS ACCESSORIES, TOILET ACCESSORIES AND FIXTURES

NOTE: MOUNTING HEIGHTS SHOWN ARE PROPOSED FOR ALL ACCESSORIES AND FIXTURES REQUIRED UNLESS OTHERWISE NOTED OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS. (BF DENOTES BARRIER FREE REQUIREMENTS)




NOTE:
IN ALL ANSI TYPE B UNITS, PROVIDE WALL REINFORCEMENT AT ALL FUTURE GRAB BAR & SHOWER SEAT LOCATIONS AT TOILETS AND TUBS. LOCATIONS OF GRAB BARS SHALL BE PER ANSI 2009 WHEN ALL CONSTRUCTION ALLOWS.

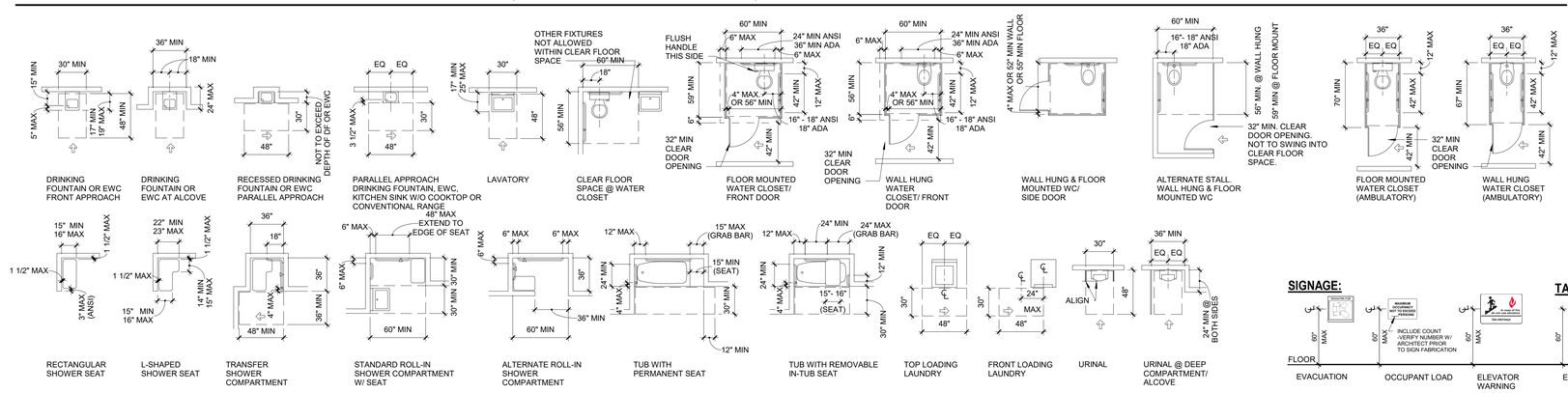
# MINIMUM CLEARANCES FOR MANUAL DOORS (ADA & ANSI A117.1-2009)




NOTE:
ALL PLAN DIMENSIONS ARE TO FACE OF WALL FINISH MATERIAL OR WALL BASE - WHICHEVER PROJECTS FARTHEST FROM WALL SUBSTRATE - MIN CODE DIMENSIONS ON THE SHEET SUPERSEDES ANY OTHER DIMENSIONS IN THE SET THAT MIGHT BE DIFFERENT.

NOTE:
NOT ALL INFORMATION SHOWN ON THIS SHEET MAY BE IS INCLUDED IN THIS PROJECT.

# TYPICAL CLEAR FLOOR SPACE REQUIREMENTS (ADA & ANSI A117.1-2009)




**SIGNAGE:**

**TACTILE SIGNS:**

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
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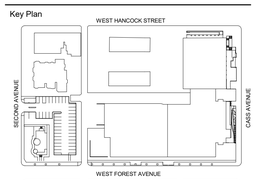
| DETROIT, MI | |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

MOUNTING HEIGHTS & CLEARANCES

Project Number: 3995-001-00

Drawn By: Designer

Scale: 3/16" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

CS.4

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version

# MATERIAL IDENTIFICATION CODES

| REV | SECTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| | 072700 | AB | **AIR & MOISTURE BARRIER**<br>AB-1: Air, water & vapor barrier; modified bituminous sheet; 40 mils, self-adhering; Perm-A-Barrier by GCP |
| | 095100 | ACT | **ACOUSTIC CEILING TILE**<br>ACT-1: 24"x24" white, tegular edge, B.O.D.: Armstrong Optima 3251PB; 9/16" grid, white<br>ACT-2: 24"x24" white, tegular edge, B.O.D.: Armstrong Optima 3216, washable; 9/16" grid, white<br>ACT-4: 24"x24" black, tegular edge, B.O.D.: Armstrong Calla 2822BK; 15/16" grid, black |
| | 095100 | ACTR | **ACOUSTIC CEILING TRIM ACCESSORIES**<br>ACTR-1: Perimeter trim, 4" high, white; Armstrong Axiom |
| | 084400 | AFS | **ALUMINUM-FRAMED GLAZING SYSTEMS**<br>Glazed aluminum-framed curtain walls & entrances; varying configurations for captured & structural sealant glazed; typical & special mullion caps; full-glass, medium stile doors; color-anodized black finish. BOD: 1600 UT Wall by Kawneer and TriFab 451 UT by Kawneer.<br>AFS-1: Lobby curtain wall with reinforced mullions, special shape caps and SSG<br>AFS-2: all SSG curtain wall<br>AFS-3: Curtain wall with 6" deep caps<br>AFS-4: Storefront at South elevation<br>AFS-5: Entrance doors at vestibule and South elevation |
| | 083100 | AP | **ACCESS PANELS**<br>AP-1: Non-rated, flush metal door<br>AP-2: Fire-rated, flush metal door<br>AP-3: Non-rated, recessed door for gyp insert<br>AP-4: Non-rated, flush stainless steel<br>AP-8: Bauco II Plus |
| | 034500 | APC | **ARCHITECTURAL PRECAST CONCRETE**<br>APC-1: Precast concrete wall panels; architectural integrally-colored concrete mix; smooth formed surface, commercial architectural finishes |
| | 034500 | APCA | **ARCHITECTURAL PRECAST CONCRETE ANCHOR**<br>APCA-1: Stainless steel |
| | 098000 | AST | **ACOUSTICAL SURFACE TREATMENTS**<br>**Fabric-Wrapped Acoustic Panels**<br>AST-1: 1" panel, Decoustics AP; DesignTex, Gamut 3468-812, Carbon<br>AST-2A: 2" panel, Fabric-wrapped acoustic panel, 2" thick, 6 pcf fiberglass core with 1/8" impact-resistant facer; HIR by Decoustics; DesignTex, Gamut 3468-812, Carbon<br>AST-2B: 2" panel, Fabric-wrapped acoustic panel, 2" thick, 6 pcf fiberglass core with 1/8" impact-resistant facer; HIR by Decoustics; Luna Textiles, Quad, Calcite FQA- 911R<br>AST-3: 3" panel<br>AST-4: 4" panel<br>**Surface-Applied Acoustic Insulation**<br>BOD: SelectSound by Owens Corning<br>AST-11: 1" fiberglass acoustic board, black<br>AST-12: 2" fiberglass acoustic board, black<br>AST-13: 3" fiberglass acoustic board, black<br>AST-14: 4" fiberglass acoustic board, black |
| | XXXXXX | | **Acoustic Curtains**<br>AST-21: Variable acoustic draperies; see Theater Drawings |
| | 064000 | B&S | **BRACKETS & STANDARDS**<br>Heavy-duty steel wall brackets & standards, shelf depth as shown.<br>B&S-1: PLAM shelves<br>B&S-2: Plywood shelves<br>B&S-3: Metal shelves |
| | 102813 | BA | **BUILDING ACCESSORIES**<br>BA-1: Mop/broom holder<br>BA-1: Mop/broom holder w/shelf |
| | 064000 | BKT | **BRACKETS (Casework)**<br>BKT-1: Countertop brackets<br>BKT-2: Workstation brackets |
| | 042000 | BT | **BRICK TIE**<br>BT-1: Thermal 2-Seal Wing Nut Anchor by H&B |
| | 083323 | CD | **COILING DOORS**<br>CD-1: Exterior Overhead Coiling Doors: Motor-operated, insuated steel curtain w/PVDF finish, color ___; [face-of-wall / between-jamb] mounted; controls & electric motor<br>CD-2: Interior Overhead Coiling Doors: Motor-operated, insuated steel curtain w/PVDF finish, color ___; [face-of-wall / between-jamb] mounted; controls & electric motor |
| | 102813 | CH | **COAT HOOK**<br>CH-1: Single<br>CH-2: Double hook, stainless steel, Bobrick B-76727<br>CH-3: Hat & coat |
| | 042000 | CMU | **CONCRETE MASONRY UNITS**<br>CMU-1: Typical, reinforced & grouted where indicated |
| | 033000 | CONC FIN | **CONCRETE FINISHES (Exposed to View)**<br>CONC FIN-1: Floated & broom finish<br>CONC FIN-2: Trowel, clear sealer<br>CONC FIN-3: Trowel, liquid hardener/densifier (no sealer)<br>CONC FIN-5: Trowel, fine-broom |
| | 033544 | | CONC FIN-13: Trowel, ground & polished; provide for special slab-on-grade requirements including sub-grade prep, slab flatness, levelness, & control joint placment, aggregates<br>CONC FIN-20: Smooth-formed vertical surfaces, typical |
| | 096800 | CPT | **CARPETING**<br>CPT-1: Shaw Contract, Dissolve Tile, Couture inspired by wool collection. Style: 59566, Color: Kohl 66597, Installation: Brick<br>CPT-2: Shaw Contract, Dissolve Tile, Couture inspired by wool collection. Style: 59566, Color: Ashen Metal 66505, Installation: Brick<br>CPT-3:<br>CPT-4:<br>CPT-5: |
| | 093000 | CTA | **CERAMIC TILE - ACCESSORIES**<br>CTA-1: Trim, Schluter "Jolly" Finish: BW Bright White<br>CTA-2: Trim, Schluter, Quadec, Finish: BW Bright White<br>CTA-3: Trim, Schluter, Dilek AHK, Finish: TSG Pewter<br>CTA-10: Fluid-applied waterproofing & crack isolation membrane |
| | 093000 | CTB | **CERAMIC TILE - BASE**<br>CTB-1: To Match CTF-1<br>CTB-2:<br>CTB-3:<br>CTB-4: |
| | 093000 | CTF | **CERAMIC TILE - FLOOR**<br>CTF-1: 6" x 6", Daltile, Volume 1.0, Stereo Grey VL73. Installation 2/3 Running Bond. Grout: TBD<br>CTF-2:<br>CTF-3: 2" x 2", Daltile, Keystones D311 Black<br>CTF-4: |
| | 093000 | CTW | **CERAMIC TILE - WALL**<br>CTW-1: Tile x Design, 4" x 16", White, Installation Vertical Running Bond, See drawings. Grout: TBD<br>CTW-2: Daltile, 3" x 6" Subway Tile, Installation: Running Bond, See Drawings. Grout: TBD<br>CTW-3: RBC Tile and Stone, AU Hexagon, AUSX 18, 1x1, White, Grout: TBD<br>CTW-4: |

# MATERIAL IDENTIFICATION CODES

| REV | SECTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| | 087900 | DR BOL | **DOOR ACTUATOR BOLLARDS (Manufactured)**<br>DR BOL-1: Aluminum; matching MP-1; BOD: ___ by Wikk |
| | | ELEV | **ELEVATORS** |
| | 142400 | | ELEV-1: Hydraulic service/passenger elevator, hydraulic, 5000 lbs capacity; inside cab clear dimensions 6'-0"w, 9'-0"d, 8'-6"h; stainless steel finishes |
| | 142600 | | ELEV-2: LULA elevator. BOD: Elvoron by Garventa Lift, Style 4 |
| | 144200 | | ELEV-3: Wheelchair lift |
| | 079513 | EXP JT | **BUILDING EXPANSION JOINTS**<br>EXP JT: TBD; with cover assemblies |
| | 042000 | FBR | **FACE BRICK**<br>ASTM C 216, Grade SW. BOD: Interstate<br>FBR-1: Lighter, limestone color<br>FBR-2: Darker, gray color, ironspot<br>FBR-3: Same blend as FBR-1, special unit size |
| | 104400 | FDKB | **FIRE DEPARTMENT KEY BOX**<br>FDKB-1: Key storage box for fire department access |
| | 104400 | FE | **FIRE EXTINGUISHER**<br>FE-1: 2-1/2 lbs, ABC type<br>FE-2: 5 lbs, ABC type |
| | 104400 | FEC | **FIRE EXTINGUISHER CABINET**<br>FEC-1: Front-of-house; recessed, stainless steel trim & solid door<br>FEC-2: Back-of-house; surface-mounted, steel trim & door with glass |
| | 124800 | FL MAT | **FLOOR MATS**<br>FL MAT-1: 24"x24" Carpet tiles, adhered |
| | XXXXXX | FNC | **FENCES & GATES**<br>Manufactured metal fences & gates, including concrete foundations, HSS posts & supports, louverd infill panels for visual screening. BOD: Ametco<br>FNC-1: Fixed sections<br>FNC-2: Swinging gates, manual, w/hardware |
| | 078443 | FRJS | **FIRE RESISTIVE JOINT SYSTEM (Joint Firestopping)**<br>FRJS: TBD |
| | 097700 | FRP | **FIBERGLASS REINFORCED PLASTIC PANEL**<br>FRP-1: White, 0.090"textured; (Crane, Marlite, Nudo) |
| | 061000 | FRT | **FIRE RETARDANT TREATMENT**<br>FRT-1: Fire retardant treatment |
| | 078400 | FSTOP | **FIRESTOPPING (Thru-Penetration)**<br>FSTOP: TBD |
| | 102813 | GB | **GRAB BARS**<br>GB: See Drawings for configurations |
| | 088000 | GL | **GLASS, GLAZING**<br>**Monolithic Glass**<br>GL-1: 1/4" clear glass<br>GL-1T: 1/4" clear FT glass<br>GL-2T: 1/2" clear FT glass<br>GL-5: 1/4" ultra-clear (low-iron) non-reflective glass<br>**Laminated Glass**<br>GL-12: Nominal 1/2"(1/4+0.090+1/4), clear HS glass, clear PVB<br>**Insulating Vision Glass**<br>GL-21: Nominal 1" IGU consisting of 1/4" HS/FT clear glass lites, 1/2" argon-filled airspace with black stainless steel or Viracon VTS warm edge spacer, black dual seals, low-e coating on #2. BOD: Viracon VNE 1-63. Provide FT glass as indicated with 'T' at end of Material ID on drawings.<br>**Mirrors**<br>GL-91: Unframed mirror, 1/4" clear HS glass |
| | 092900 | GYP BD | **GYPSUM BOARD**<br>GYP BD-1: 5/8" fire-rated type X<br>GYP BD-2: 5/8" fire-rated type X, mold- & water-resistant<br>GYP BD-21: 1" shaft liner |
| | 054000 | GYP SHTG | **GYPSUM SHEATHING**<br>GYP SHTG-1: 5/8", type X, fiberglass-faced; DensGlass Gold |
| | 092900 | GYPA | **GYPSUM BOARD ACCESSORIES**<br>GYPA-1: 1/4" Z-Reveal; No. 625-25 by Fry Reglet |
| | 099600 | HPC | **HIGH PERFORMANCE COATING**<br>HPC-#: Epoxy primer, aliphatic urethane topcoat,by Tnemec; color corresponding to PT-#;<br>HPC-11: matching MP-1 |
| | 042000 | HZRE | **HORIZONTAL WALL REINFORCEMENT**<br>HZRE-1: Galvanized steel, see structural dwgs |
| | 102813 | ICS | **INFANT CHANGING STATION**<br>ICS-1: Stainless steel cabinet & HDPE liner |
| | 072100 | INSUL | **INSULATION**<br>INSUL-1: Extruded polystyrene, 25 psi, Dow Styrofoam SE<br>INSUL-26: Mineral-fiber, semi-rigid board; RockWool CavityRock<br>INSUL-30: Polyurethane foam, spray-applied, closed-cell<br>INSUL-40: Fiberglass, unfaced batts, acoustical<br>INSUL-41: Mineral-fiber, unfaced batts, acoustical |
| | 092900 | | |
| | 092900 | | |
| | 105100 | LKR | **LOCKERS**<br>LKR-1: Metal lockers, double-tier, painted finish, white<br>LKR-2: Metal lockers, single tier, 18"x18"x72", painted finish, white |
| | 089100 | LVR | **LOUVERS**<br>LVR-1: Fixed exterior louvers, extruded aluminum frame & vertically-oriented drainable blades; color-anodized black finish |
| | 076200 | MEMB FLASH | **MEMBRANE FLASHING (NON-EXPOSED LINERS)**<br>MEMB FLASH-1: Self-adhering sheet, 30 mils, high temp type; Carlisle CCW WIP 300HT, Grace Ultra<br>MEMB FLASH-2: EPDM sheet, 60 mils |
| | 123551 | MESC | **MUSIC EDUCATION STORAGE CASEWORK**<br>MESC-1: Instrument storage cabinets, PLAM; by Wenger<br>MESC-2: Music library storage system, high-density, PLAM; by Wenger<br>MESC-4: High-density garment storage system with deck & ramp |
| | 055000 | MET FAB | **METAL FABRICATION**<br>MET FAB-1: Interior ships ladder, steel grate treads, primed<br>MET FAB-2: Interior straight ladder, steel, primed<br>MET FAB-3: Exterior roof ladder, galvanized steel, HPC-11 finish<br>MET FAB-5: Bollard, galvanized steel tube, HPC-11 finish<br>MET FAB-14: Catwalk assembly, PT-3 finish<br>MET FAB-15: Lighting support rail, Schedule 80 pipe; 1-1/2"d; PT-3 |
| | 092200 | MET FURG | **METAL FURRING (Non-Structural)**<br>MET FURG-1: Hat channels, galvanized<br>MET FURG-2: Z-furring, galvanized<br>MET FURG-3: Channel bridging, galvanized<br>MET FURG-4: Resilient channels, galvanized |
| | 055200 | MET RAIL | **METAL RAILINGS**<br>MET RAIL-1: Exit stair handrail, steel pipe, PT-11 finish<br>MET RAIL-2: Exit stair guardrail, steel tube, PT-11 finish<br>MET RAIL-3: Wall-mounted steel pipe handrail, PT-11 finish<br>MET RAIL-6: Under-stair barrier rail; steel bar, PT-11 finish<br>MET RAIL-7: Gate, self-closing, steel bar, PT-11 finish |
| | 055100 | MET STAIR | **METAL STAIRS** |

# MATERIAL IDENTIFICATION CODES

| REV | SECTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| | | | MET STAIR-1: Exit stair; concrete-filled steel pan treads & landings; shop-primed for PT-11 finish (with MET RAIL-1 & MET RAIL-2) |
| | 092200 | MET STUD | **METAL STUD FRAMING (Non-Structural)**<br>MET STUD-1: Steel stud, C-shaped, galvanized<br>MET STUD-2: Steel shaft wall stud, C-T shaped, galvanized |
| | 102813 | MIR | **MIRROR (FRAMED)**<br>MIR-1: Stainless steel frame, no shelf. BOD: B-290 by Bobrick. Size as shown.<br>MIR-2: Stainless steel frame, with shelf. BOD: B-292 by Bobrick<br>MIR-3: Stainless steel frame, no shelf. BOD: B-290 by Bobrick. Size as shown.<br>MIR-4: Stainless steel frame, no shelf. BOD: B-290 by Bobrick. Size as shown. |
| | 101100 | MKBD | **MARKER BOARD**<br>MKBD-1: Dry-type marker board, low-gloss, size as indicated |
| | 074200 | MP | **METAL PANELS**<br>MP-1: Flush panels, 1/8" aluminum plate, color-anodized black finish; open joint installation (1/8" wide, typical), concealed fasteners, subframing & anchors<br>MP-2: Profiled panels, __" aluminum sheet, roll-formed; multiple profiles, color-anodized black. BOD: Morin<br>MP-4: Flush panels, 0.060" aluminum sheet |
| | 054300 | MSA | **METAL SUPPORT ASSEMBLIES**<br>MSA-1: Slotted steel channel framing; Unistrut |
| | 057000 | ORN MET | **ORNAMENTAL METAL (Custom-Fabrications)**<br>**Interior Fabrications**<br>ORN MET-1: Fintube Enclosure: Formed aluminum sheet, ___" thick, custom perforation pattern, color-anodized black<br>ORN MET-3: Steel panels, __" steel sheet, special blackened finish. Flush formed panels with return at walls & ceilings, flat facing at sliding countertop doors<br>ORN MET-4: Metal Ceiling: Formed expanded [steel/aluminum] panels w/return, __" sheet thickness, ___"x__" openings, shop-applied painted finish TBD, fire-rated MDF backer with painted finish<br>ORN MET-5: Wall Base: Metal angle, 1/4" thick, metal plate, 16 ga. welds ground smooth, PT-11<br>**Exterior Scrim Assembly with Dimension Letters**<br>ORN MET-6: Stainless steel mesh, ___ by GKD, gold colored _____ finish TBD; anchored at top & bottom to continuous concealed steel supports; two-part (front & back), laser-cut stainless steel plate letters, concealed clipped to mesh<br>ALTERNATE: Illuminated LED mesh by GKD |
| | 057200 | ORN RAIL | **ORNAMENTAL RAILING**<br>ORN RAIL-3: Handrail, wall-mounted, solid WD-1 cap, concealed steel bar spline, welded steel [rod/bar] bracket, PT-__ finish on exposed steel<br>ORN RAIL-4: Handrail, wall-mounted, steel bar, PT-__ finish<br>ORN RAIL-6: Handrail, floor-mounted (sleeve), steel bar posts & [pipe] top rail, PT-__ finish<br>ORN RAIL-7: Removable pit guardrail, floor-mounted, concealed steel framing, interlocks, WD FAB-3 cladding, solid WD-2 cap<br>ORN RAIL-8: Removable lift guardrail, floor-mounted to stage lift platform, steel bar, PT-__ finish |
| | 064000 | PLAM | **PLASTIC LAMINATE**<br>PLAM-1:<br>PLAM-2: |
| | 099000 | PT | **PAINT**<br>BOD: Pro Mar, Zero-VOC by Sherwin-Williams<br>PT-1: White, TBD<br>PT-2: Screen Goo Projection Screen Coating, White +20 Finish coating<br>PT-3: Black, TBD<br>PT-4: Benjamin Moore; Wrought Iron; 2124-10<br>PT-5: Sherwin Williams; Ellie Gray; SW 7650<br>PT-6: Benjamin Moore; 2120-20 Black Iron<br>PT-10: Gold, TBD. Applied to gypsum board substrate w/Level 5 finish<br>PT-11: TBD at overhead ducts, bottom of deck, AESS columns, etc. |
| | 102813 | PTC | **PAPER TOWEL CABINET**<br>PTC-1: Surface mounted. BOD: Georgia Pacific enMotion Recessed Automated Touchless Towel Dispenser, Model 59466, Stainless Steel, 13.3" X 8.0" X 16.4" |
| | 099000 | PTE | **PAINT, EPOXY**<br>PTE-#: Epoxy-based paint, color corresponding to PT-# |
| | 099000 | PTV | **PAINT, VAPOR RETARDER**<br>PTV-#: Vapor-retarder primer, typical finish coats, color corresponding to PT-# |
| | 093000 | QT | **QUARRY TILE**<br>QT-1: 6"x 6" Quarry Tile, B.O.D.: Daltile Pavers, color Storm Gray #OQ83 |
| | 093000 | QTB | **QUARRY TILE BASE**<br>QTB-2: Quarry Tile Cove Base; B.O.D.: Daltile Pavers, color: Strom Gray #OQ83 |
| | 064000 | R&S | **ROD & SHELVES**<br>R&S-1: with plywood shelves<br>R&S-2: with PLAM |
| | 096500 | RB | **RESILIENT BASE**<br>RB-1: 4" rubber straight base - Johnsonite (at CPT-1)<br>RB-2: 4" rubber straight base - Johnsonite (at CPT-2)<br>RB-3: 4" rubber straight base - Johnsonite (at CONC FIN-2) |
| | 096723 | RES | **RESINOUS FLOORING**<br>RES-1: |
| | 096500 | RFT | **RESILIENT FLOOR TILE**<br>RFT-1: Mannington, Spacia SS5W2518, Pale Ash |
| | 096500 | RFS | **RESILIENT FLOOR SHEET**<br>RFS-1: |
| | 077233 | RH | **ROOF HATCHES**<br>RH-1: For ships' ladder access, thermal-break, 30"x96"; Type L-50-TB by Bilco |
| | | SCDA | **SOUND CONTROL DOOR ASSEMBLIES** |
| | 083473 | | **Side-Rolling Panel Doors**<br>BOD: Noise Barriers, Wenger Corporation/JR Clancy, IAC Acoustics<br>SCDA-1: Swinging doors, steel, STC-51; PT-__ finish |
| | 083474 | | **Side-Rolling Panel Doors**<br>BOD: Noise Barriers, Wenger Corporation/JR Clancy, IAC Acoustics<br>SCDA-10: STC-50, oversized, manually-operated, non-fire-rated; PT-__ finish<br>SCDA-11: STC-50, oversized, manually-operated, fire-rated; PT-__ finish |
| | 085673 | SCWU | **SOUND-CONTROL WINDOW UNITS**<br>Aluminum-framed, factory-glazed window units; acoustically tested & rated; prefinished matte black; Basis of Design: DeVAC 600 Series by Mon-Ray Inc.<br>SCWU-1: STC-45, fixed frame; ultra-clear non-reflective glass (GL-5)<br>SCWU-2: STC-50, sliding sashes; laminated glass (GL-12); 5 degree angled installation |
| | 102813 | SDISP | **SOAP DISPENSER**<br>SDISP-1: Surface-mounted, vertical design, white plastic. BOD: Lit'n Foamy Dispenser #975600<br>SDISP-2: Lavatory-mounted, 4" spout, reservoir. BOD: Lite'n Foamy Counter Mount Dispenser #967700. |

# MATERIAL IDENTIFICATION CODES

| REV | SECTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| | | SEAT | **AUDIENCE SEATING** |
| | 126100 | | **Fixed & Loose Seating**<br>Two-Part, Fabric-Upholstered Chairs with Wood Seats, Back Panels, Armrests and End Panels. BOD: Madison by Series Seating; Scala by Figueras<br>SEAT-1: Fixed, at Theater<br>SEAT-2: Fixed, at Valade<br>SEAT-3: Loose, at Theater<br>SEAT-4: Loose, at Valade |
| | 126600 | | **Telescoping Seating**<br>SEAT-5: Telescoping, at Studio Theater |
| | 102813 | SHC | **SHOWER CURTAIN**<br>SHC-1: BOD: B-204-2&1 by Bobrick |
| | 102813 | SHCR | **SHOWER CURTAIN ROD**<br>SHCR-1: Stainless teel, heavy-duty. BOD: B-6047 by Bobrick |
| | 102813 | SHFS | **SHOWER FOLDING SEAT**<br>SHFS-2: One-piece [phenolic / polymeric] seat; ADA |
| | 079000 | SLNT | **SEALANT**<br>SLNT: TBD |
| | 076200 | SMF | **SHEET METAL FLASHING & TRIM**<br>SMF-1: Prefinished aluminum sheet, matching MP-2 |
| | 102813 | SND | **SANITARY NAPKIN DISPOSAL**<br>SND-3: Safe-Use Plastic Sanitary Napkin Receptacle, gray, wall mountable, empty from the bottom. |
| | 064000 | SSF | **SOLID SURFACE FABRICATIONS**<br>SSF-1: Quartz or cast polymer<br>SSF-2: Quartz |
| | 054000 | STL FURG | **STEEL FURRING (Structural)**<br>STL FURG-1: Hat channel, 16 ga. min, G90 galvanized steel<br>STL FURG-2: Z-furring, 16 ga. min, G90 galvanized steel |
| | 054000 | STL JOIST | **STEEL JOIST FRAMING (Structural)**<br>STL JOIST-1: Joist framing; C-shaped, 16 ga. min, galvanized |
| | 054000 | STL STUD | **STEEL STUD FRAMING (Structural)**<br>STL STUD-1: Stud framing; C-shaped, 16 ga. min, G90 galvanized |
| | 077236 | SV | **SMOKE VENTS**<br>SV-1: Hinged, biparting paired doors, acoustically-rated unit, automatic operation linked to fire alarm system, sizes as shown |
| | 134833 | SVC | **SOUND & VIBRATION CONTROL COMPONENTS**<br>**Slab Isolation**<br>SVC-1: Continuous rubber underlayment, dimpled, 1"; GenieMat FF-25 by Pliteq<br>SVC-2: Continuous rubber underlayment, dimpled, 2"; GenieMat FF-50 by Pliteq<br>SVC-3: Continuous rubber underlayment, flat<br>SVC-5: Continuous perimeter strip, 1/2" thick<br>**Ceiling Isolation**<br>SVC-11: Spring hanger, standard; Type 30 NCC by Mason Industries<br>SVC-12: Spring hanger, compact; Type 30 CSCH by Mason Industries<br>**Partition Isolation**<br>SVC-21: Continuous isolation strip; NPS-40 by Mason Industries<br>SVC-22: Sway brace; Type DNSB Sway Brace by Mason Industries<br>SVC-23: Resilient partition header<br>**Resilient Pads**<br>SVC-31: Resilient waffle pads; Super W Pads by Mason Industries<br>SVC-32: Resilient bearing supports<br>SVC-33: Elastomeric floor mount; EAFM by Mason Industries |
| | 102100 | T COMP | **TOILET COMPARTMENTS**<br>T COMP-3: Solid plastic; floor-mounted, overhead-braced. |
| | 101100 | TKBD | **TACK BOARD**<br>TKBD-1: Plastic impregnated cork, 1/4" seamless sheet |
| | 102813 | TPH | **TOILET PAPER HOLDER**<br>TPH-2: Double roll, translucent plastic. BOD: Model 53771 Compact Double Roll Bath Tissue Dispenser by Georgia Pacifi |
| | 075400 | TPO | **SINGLE-PLY TPO MEMBRANE ROOFING**<br>Thermoplastic TPO roofing system; adhered, reinforced TPO membrane, 60 mils (minimum), white; substrate board, vapor retarder, insulation, protection board for complete system. R-30 system. Provide system for 20-year warranty.<br>TPO-1: On concrete deck.<br>TPO-2: On metal deck |
| | 096001 | TRS | **TRANSITION STRIPS**<br>TRS-1: Carpet to Concrete: Johnsonite, EG-XXX-J. Color: #63 Burnt Umber<br>TRS-3: Tile to Concrete: Schluter, Reno-U, Color Coated Aluminum, Color: TSG Pewter<br>TRS-4: Tile to Resilient: Schluter, Reno-U, Color Coated Aluminum, Color: TSG Pewter<br>TRS-5: Resilient to Concrete: Johnsonite, SLT-XX-J, Color: #63 Burnt Umber |
| | 084520 | TSPA | **TRANSLUCENT SANDWICH PANEL ASSEMBLY**<br>TSPA-1: Aluminum-framed, fiberglass sandwich wall panel assembly |
| | 042000 | TWF | **THROUGH WALL FLASHING**<br>TWF-1: Self-adhering thermoplastic sheet, 40 mil<br>TWF-2: Drip plate, stainless steel<br>TWF-3: Drip plate with integral reglet, stainless steel |
| | 031500 | UVB | **UNDERSLAB VAPOR BARRIER**<br>UVB-3: 15 mil polyethylene sheet; Stegowrap |
| | 115700 | VOC EQ | **VOCATIONAL/EDUCATIONAL EQUIPMENT**<br>VOC EQ-1: Dust curtain; 14 mil vinyl, manually-operated; Welding Curtain Walls by AKON, LLC.<br>VOC EQ-2: Walk-in Spray Hood<br>VOC EQ-3: Metal Dust Collector<br>VOC EQ-4: Metal Dust Collector Stand for Bench Grinder<br>VOC EQ-5: Welding Fume Hood – wall mounted<br>VOC EQ-6: Welding Fume Hood - portable<br>VOC EQ-7: Wood dust collector – portable<br>VOC EQ-8: Dye Vat<br>**Laundry Appliances**<br>VOC EQ-11: Clothes washer<br>VOC EQ-12: Clothes dryer |
| | 097200 | VWC | **VINYL WALL COVERING**<br>VWC-1: Custom graphics. BOD: TBD |
| | 102600 | WCG | **WALL CORNER GUARD**<br>WCG-4: Stainless steel ,96" AFF, exposed mechanical fasteners |
| | 064000 | WD | **WOOD (Species, Cut & Finish)**<br>WD-1: Red oak, rift-sliced veneer, rift-sawn solid; stain & clear finish<br>WD-2: Red oak, rift-sliced veneer, rift-sawn solid; stain & clear finish<br>WD-3: [New/Reclaimed] wood, milled & prefinished. [Source for reclaimed / Species of new] wood and finishes TBD<br>WD-4: MDF or solid wood, spray-applied finish, varying sheens<br>WD-5: Birch/poplar; opaque finish, color as indicated on Drawings |
| | 061000 | WD BLKG | **WOOD BLOCKING**<br>WD BLKG-1: Wood blocking |

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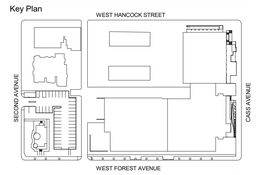
| DETROIT, MI | |

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

MATERIAL IDENTIFICATION CODES

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

CS.5

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version

## MATERIAL IDENTIFICATION CODES

| REV | SECTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| | **064000** | **WD FAB** | **WOOD FABRICATIONS**<br>Custom fabricated wood panels & architectural wood assemblies, NAAWS Premium Grade, including metal concealed subframing, attachment, operating hardware, as applicable<br><br>WD FAB-1: Sliding pocket doors with ORN MET-3 faces, hardware<br>WD FAB-2: Wood Donor Wall: TBD<br>WD FAB-3: Flush Wood Panels: Vertically-oriented installation, WD-2 veneer over MDF core (acoustically-reflective)<br>WD FAB-4: Articulated Wood Panels: Vertically-oriented WD-4 ribs, of varying widths and depths, built-up to create relief patterns as indicated (acoustically-diffusive)<br><br>WD FAB-5: Wood Baffle Ceiling: Built-up MDF, PT-5 finish<br>WD FAB-6: Proscenium Grillage: Vertically-oriented, solid WD-5 dowels of varying diameters, PT-4/5/6 of various sheens; fastened rigidly, with varying spacing, to steel support framing behind. Provide all accessories required for sound & vibration control. |
| | **061000** | **WD SHTG** | **WOOD SHEATHING**<br>WD SHTG-1: 3/4" plywood, C-D, exposure 1, FRT<br>WD SHTG-2: 3/4" plywood, C-D, exterior exposure, PPT<br>WD SHTG-4: 1/2" plywood, C-D, exposure 1, FRT<br>WD SHTG-5: 3/4" MDF, FRT<br>WD SHTG-9: 3/4" plywood, FRT, PT finish<br>WD SHTG-12: Peg board |
| | **064000** | **WDB** | **WOOD BASE**<br>WDB-1: Solid WD-1<br>WDB-2: Solid WD-2<br>WDB-5: Solid WD-5 |
| | **096400** | **WDF** | **WOOD FLOORING**<br>WDF-1: Hardwood flooring over subfloor; 2-1/4"w x 3/4" T&G rift-cut white oak WD-1 strips, field-finished; 1 layer 3/4" T&G plywood, wood 2x4 sleepers, resilient isolation pads, vapor barrier<br><br>WDF-2: Hardboard panel flooring over subfloor; 1 layer 1/4" tempered hardboard, 1 layer 3/4" T&G plywood, 1 layer 3/4" plywood, wood 2x4 sleepers, resilient isolation pads, vapor barrier (over slab-on-grade)<br><br>WDF-3: Hardboard panel flooring over subfloor; 1 layer 1/4" tempered hardboard, 1 layer 3/4" T&G plywood, 1 layer 3/4" plywood, wood 2x4 sleepers, resilient isolation pads (over elevated slab) |
| | | **WP** | **WATERPROOFING** |
| | **071413** | | WP-1: Hot fluid-applied rubberized asphalt |
| | **071700** | | WP-2: Bentonite/HPDE composite membrane |
| | **042000** | **WPS** | **WEEP SYSTEM**<br>WPS-1: Cotton rope wicks<br>WPS-2: Plastic cellular vent<br>WPS-3: Woven polypropylene vent<br>WPS-4: Woven polypropylene mortar stop |
| | **102813** | **WRC** | **WASTE RECEPTACLE**<br>WRC-1: Recessed, Stainless Steel, 12 gallon capacity, 17.2" X 7.75" X 56.0" BOD: Model 59491 Trash Receptacle Unit, Higher Capacity by Georgia Pacific. |
| | **122413** | **WT** | **WINDOW TREATMENTS**<br>BOD: MechoShade<br>WT-1: Manual, translucent shade<br>WT-2: Motorized, translucent shade<br>WT-3: Motorized, dual rollers, translucent & opaque shades<br>WT-4: Manual, dual roller, translucent & opaque shades<br><br>**End of List** |

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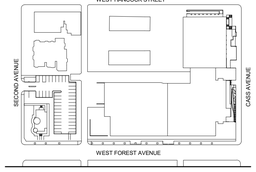
DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MATERIAL IDENTIFICATION CODES

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# CS.6

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

Sheet Size: 30" x 42"
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GRAPHIC SCALE
0 10 20 40
( IN FEET )
1 inch = 20 ft.

LOCATION MAP
NOT TO SCALE

## OWNER

WAYNE STATE UNIVERSITY
42 W. WARREN AVE.
DETROIT, MI 48202
PHONE: (313) 577-2424

## CIVIL SHEET INDEX


C2.1 - DEMOLITION PLAN
C2.2 - UTILITY PLAN
C2.3 - COMBINED SEWER PROFILE
C2.4 - PAVING, LAYOUT AND GRADING PLAN
C2.5 - PAVING DETAILS AND NOTES
C2.6 - SOIL EROSION AND SEDIMENTATION CONTROL PLAN


## SURVEY NOTES

1. TOPOGRAPHIC AND/OR BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS MAY BE BASED ON RECORD DATA NOT MEASURED IN THE FIELD AND WAS PROVIDED BY OTHERS TO THE SELLER/OWNER: SPALDING DEDECKER ASSOCIATES, INC. WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN OMISSIONS RESULTING FROM SURVEY INACCURACIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL INFORMATION SHOWN ON THIS SURVEY AND NOTIFYING THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
3. CONTRACTOR SHALL UTILIZE A PRIVATE UTILITY LOCATOR TO STAKE PUBLIC AND PRIVATE UTILITY LOCATIONS PRIOR TO START OF CONSTRUCTION. IT IS THE CONTRACTORS RESPONSIBILITY, AT NO COST TO THE PROJECT, TO REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING UTILITIES.
4. CONTRACTOR SHALL CONTACT MISS DIG (811) THREE WORKING DAYS PRIOR TO THE START OF CONSTRUCTION FOR STAKING OF UTILITIES.

## DEMOLITION NOTES

1. REMOVE ASPHALT PAVEMENT TO FULL DEPTH. SAWCUT FULL DEPTH WHERE NEW PAVEMENT WILL BE PLACED ADJACENT TO EXISTING PAVEMENT. REMOVAL LIMITS TO BE FIELD VERIFIED BY ENGINEER.
2. REMOVE CONCRETE PAVEMENT TO FULL DEPTH. SAWCUT FULL DEPTH TO NEAREST JOINT WHERE NEW PAVEMENT WILL BE PLACED ADJACENT TO EXISTING PAVEMENT. REMOVAL LIMITS TO BE FIELD VERIFIED BY ENGINEER.
3. REMOVE CONCRETE CURB AND GUTTER TO FULL DEPTH. SAWCUT FULL DEPTH WHERE NEW CURB AND GUTTER WILL BE PLACED ADJACENT TO EXISTING CURB AND GUTTER. REMOVAL LIMITS TO BE FIELD VERIFIED BY ENGINEER.
4. REMOVE GRAVEL PAVEMENT TO FULL DEPTH.
5. CLEAR AND GRUB TO THE LIMITS SHOWN. INCLUDE REMOVAL OF ALL SIGNS, POSTS, FOOTINGS, GRAVEL, BRUSH, SHRUBS, GRASS, AND TREES NOT INDICATED FOR PROTECTION, INCLUDING ROOTS. STRIP TOPSOIL AND STOCKPILE ON SITE IN DESIGNATED LOCATION.
6. REMOVE EXISTING TREE, INCLUDING STUMP AND ROOTS.
7. ABANDON EXISTING COMBINED SEWER PIPE IN PLACE (CONTRACTOR TO CONFIRM NO CONFLICTS). CUT AND INSTALL WATERTIGHT CAP AT EXISTING PIPE AND INSTALL WATERTIGHT BULKHEAD AT STRUCTURES WHERE PIPE IS TO BE ABANDONED IN PLACE. FILL WITH FLOWABLE GROUT.
8. CUT EXISTING COMBINED SEWER STRUCTURE 4' BELOW GRADE. FILL WITH GROUT AND BACKFILL UP TO GRADE WITH CLASS II FILL AND COMPACT TO 95% OF MAXIMUM DENSITY.

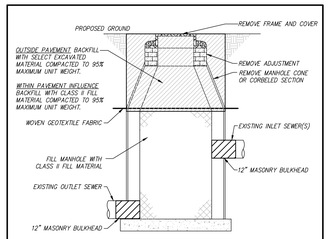
UNLESS OTHERWISE STATED, PROTECT EXISTING UTILITIES AND UTILITY STRUCTURES TO REMAIN.

ALL DEPRESSIONS CREATED BY DEMOLITION PROCEDURES SHALL BE BACKFILLED WITH CLASS II FILL MATERIAL, IN 8" LIFTS COMPACTED TO 95% OF MAXIMUM UNIT WEIGHT, UP TO PROPOSED SUBGRADE.

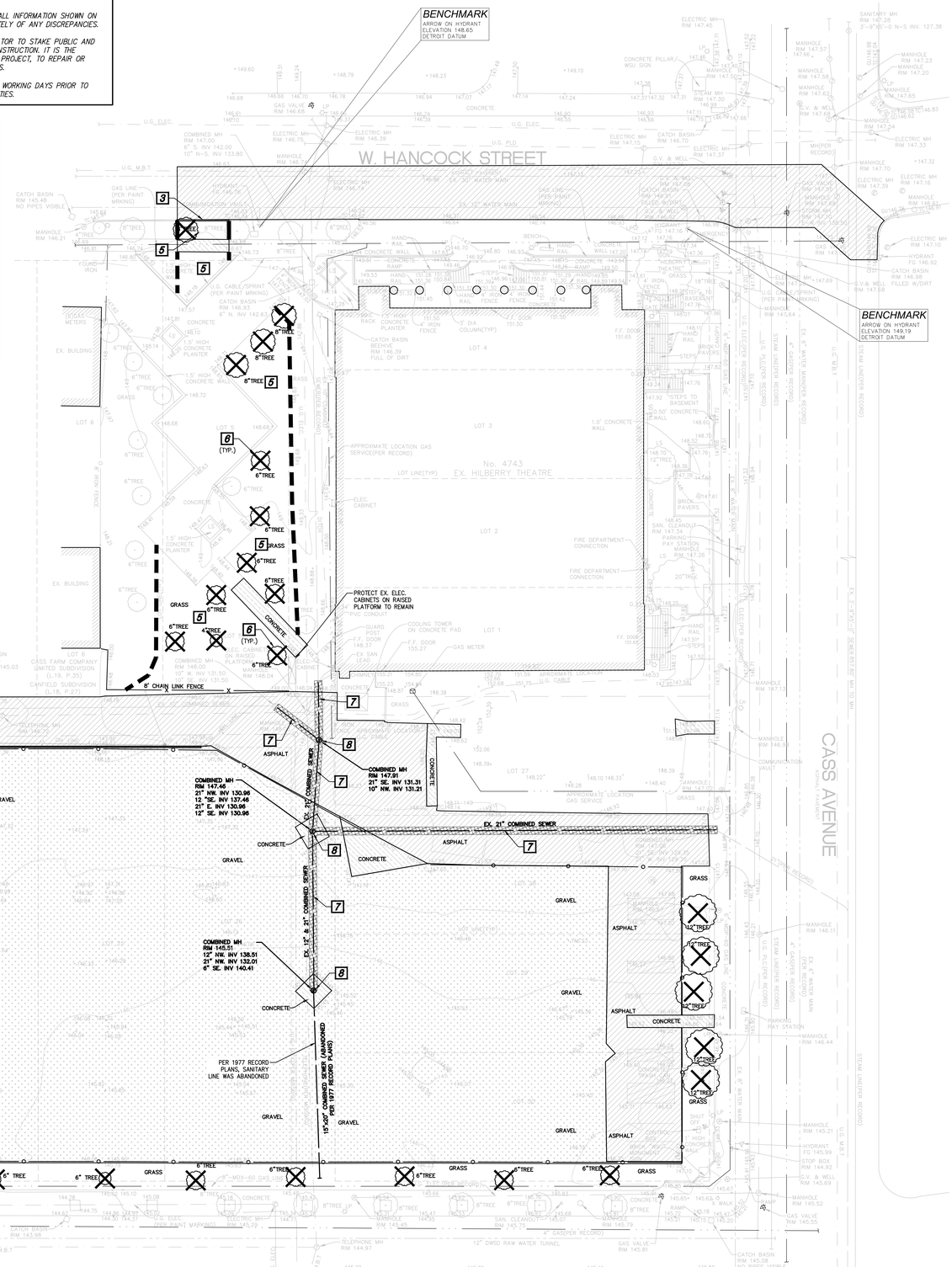
CONTRACTOR IS RESPONSIBLE FOR DOING AN EARTHWORK CALCULATION FOR CUT AND FILL REQUIREMENTS, AND IS RESPONSIBLE FOR INCLUDING IMPORT AND EXPORT OF MATERIALS IN THEIR BID. ALL EXCESS MATERIAL (INCLUDING TOPSOIL, CLEAN FILL, AND WASTE MATERIAL) SHALL BE REMOVED FROM THE SITE. CONTRACTOR TO FURNISH RECEIPTS TO SHOW EXCESS MATERIAL WAS DISPOSED OF PROPERLY.

EXISTING SUPPORTED SLABS AT BUILDING ENTRY/DOORS TO REMAIN, UNLESS OTHERWISE DIRECTED. CONTRACTOR TO VERIFY LIMITS OF EXISTING SUPPORTED SLAB AND REMOVE ADJACENT WALKS AS SHOWN ON PLANS.

CONTRACTOR TO PROTECT EXISTING WALKS, PAVEMENT, CURBS, GUTTERS, WALLS, FENCES, GATES, LANDSCAPING AND TREES TO REMAIN DURING CONSTRUCTION.




EXISTING UTILITY STRUCTURE ABANDONMENT DETAIL
NO SCALE

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| CONTRACTOR | WALBRIDGE<br>777 WOODWARD AVE. SUITE 300<br>DETROIT, MI 48202<br>313.963.8000 |
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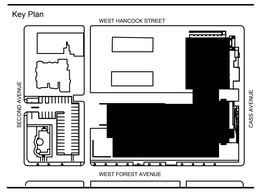


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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| PRELIM. SEWER PLAN TO DWSD | JAN. 09, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578
Drawing Title
# DEMOLITION PLAN

Project Number: 3995-001-00
Drawn By: JS Approved By: TS
Scale: As indicated
Seal:

Signature:

Drawing No:
# C2.1

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Sheet Size: 30" x 42"
2018_01_11.0: Template Version

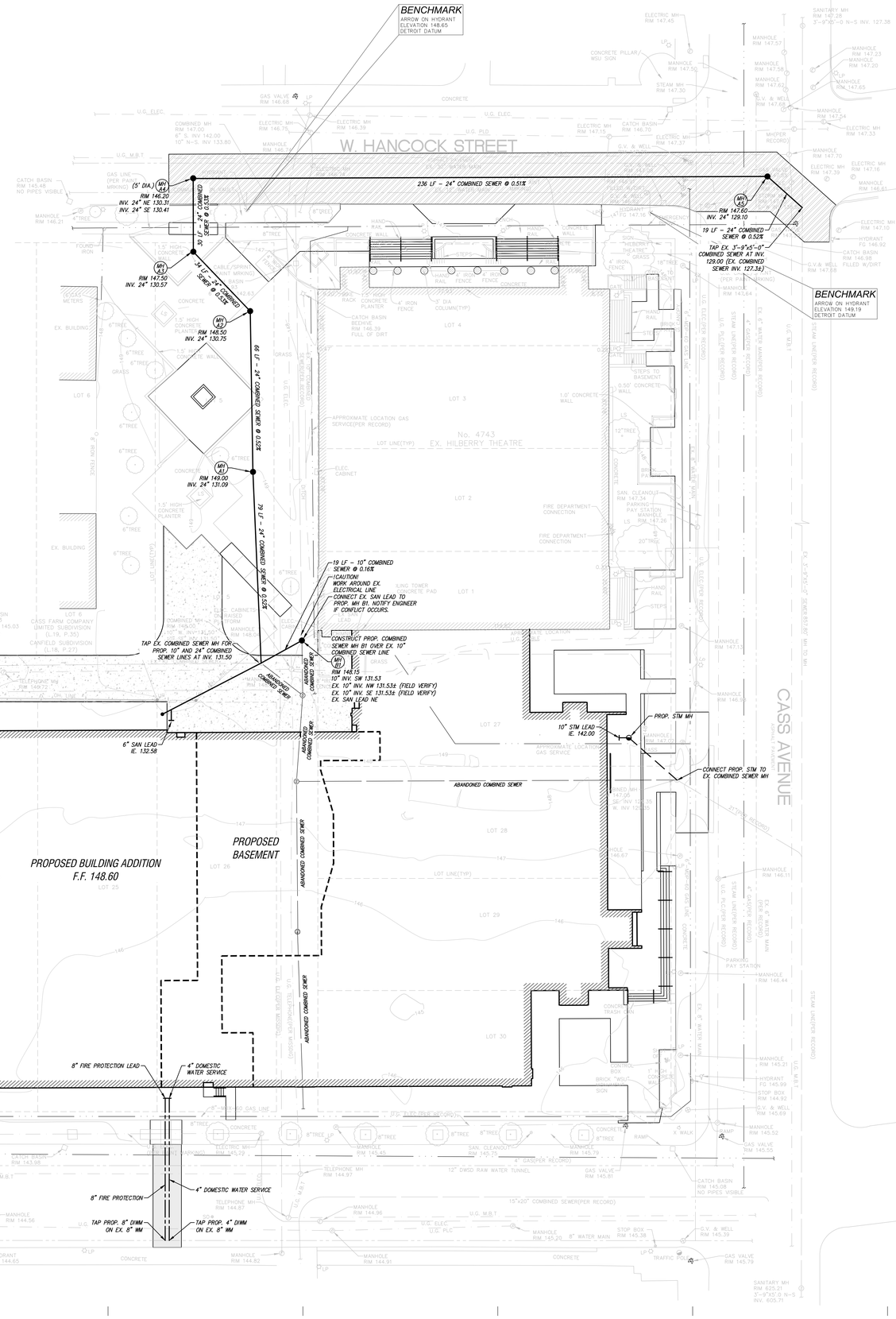
GRAPHIC SCALE
0 10 20 40
( IN FEET )
1 inch = 20 ft.

## LEGEND

- PROPOSED WATERMAIN
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC
- PROPOSED HYDRANT
- PROPOSED GATE VALVE & WELL (GVW)
- PROPOSED TAPPING SLEEVE, VALVE & WELL (TSVW)
- STANDARD BITUMINOUS PAVEMENT
- DEEP-STRENGTH BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- PROPOSED SAN MANHOLE (SAN)
- PROPOSED STORM MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- PROPOSED INLET (INL)
- PROPOSED END SECTION (ES)
- PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
- (2) UTILITY CROSSING (SEE DATA TABLE)
- STORM SEWER STRUCTURE: CB — STRUCT. TYPE; 2 — STRUCT. NO.
- SANITARY SEWER STRUCTURE: (20)
- WATERMAIN STRUCTURE: 10 — STRUCT. NO.; XXX — STRUCT. TYPE

## UTILITY NOTES

1. STORM SEWER 12" AND LARGER SHALL BE C76 CL IV (PREM.JT.) UNLESS OTHERWISE NOTED ON THE PLAN.
2. STORM SEWER 6" AND SMALLER SHALL BE PVC SDR 23.5. STORM SEWER GREATER THAN 6" THROUGH 10" SHALL BE PVC SDR 26.
3. SANITARY SEWER SHALL BE PVC TRUSS PIPE. LEADS SHALL BE SOLID WALL, PVC, SDR 23.5.
4. WATER MAIN SHALL BE CLASS 54 DUCTILE IRON. WATER MAINS SHALL BE LEAKAGE AND PRESSURE TESTED IN ACCORDANCE WITH AWWA STANDARD C600. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 PRIOR TO BEING PUT INTO SERVICE.
5. ALL UTILITY TRENCHES THAT FALL WITHIN A 1-ON-1 INFLUENCE OF PAVEMENT AREAS SHALL BE BACKFILLED WITH CLASS 2 SAND AND COMPACTED TO 95% OF MAXIMUM DENSITY.
6. ALL WATER MAIN SHALL BE BURIED WITH 5' OF COVER FROM PROPOSED GRADES. USE 22.5° BENDS TO LOWER WATER MAIN WHERE NOTED AT UTILITY CROSSING.
7. ALL UTILITIES SHALL BE INSTALLED ON CLASS "B" BEDDING OR BETTER.
8. UNLESS OTHERWISE NOTED, ALL STORM SEWER STRUCTURES SHALL BE 4' DIAMETER (INLETS SHALL BE 2' DIAMETER). UNLESS OTHERWISE INDICATED ON THE STANDARD DETAIL SHEETS CASTINGS SHALL BE:
   PVMT. CATCH BASINS – EJIW 5105 – "M1" (FRAMES WITH CURB BOXES WILL NOT BE ALLOWED)
   YARD CATCH BASINS – EJIW 1040 – "02"
   MANHOLES – EJIW 1040 – "A"
9. PLACEMENT OF EDGE DRAINS AND FINGER DRAINS AT ALL CATCH BASINS IS REQUIRED. SEE STRUCTURE UNDERDRAIN DETAIL THIS SHEET.
10. FOR CURB CATCH BASINS, SEE BASIN LOCATION DETAIL FOR BASIN STAKING RELATIVE TO THE CURB.
11. LOCATIONS OF LIGHT POLES, IF SHOWN ON THESE DRAWINGS, MAY BE APPROXIMATE. CONFIRM EXACT LOCATION (I.E. CURB OFFSETS, SIDEWALK OFFSETS, ETC.) PRIOR TO STAKING AND CONSTRUCTION. REFER TO SITE ELECTRICAL PLAN FOR DETAILS, AND COORDINATE WITH ELECTRICAL ENGINEER, ARCHITECT, AND CIVIL ENGINEER TO DETERMINE PROPER PLACEMENT.
12. WHERE THESE PLANS DIFFER FROM THE STANDARD DETAILS OR STANDARD SPECIFICATIONS OF THE COMMUNITY, THE COMMUNITY REQUIREMENTS SHALL GOVERN.

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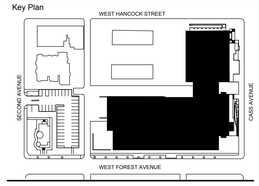


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WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
UTILITY PLAN

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|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: JS | Approved By: TS |
| Scale: As indicated | |
| Seal: | |

Signature:

Drawing No:
C2.2

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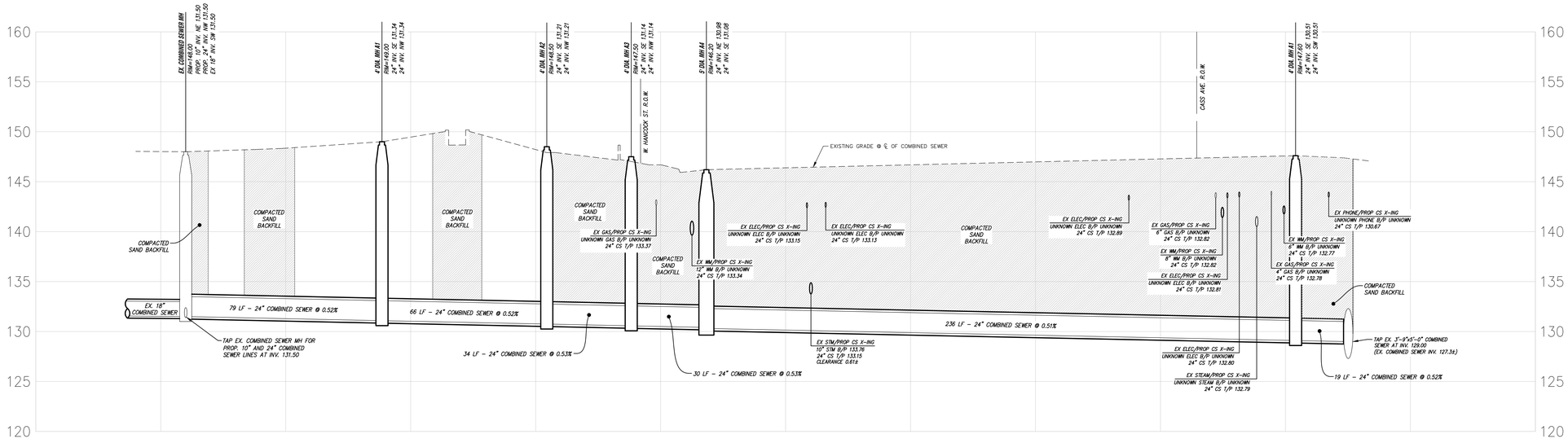
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

**UTILITY CROSSING NOTE**

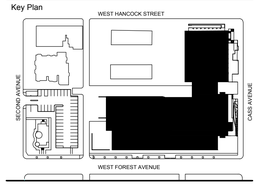
MULTIPLE EXISTING UTILITIES HAVE UNKNOWN SIZES AND DEPTHS. CONTRACTOR TO CONFIRM SIZES AND DEPTHS DO NOT CONFLICT WITH CONSTRUCTION OF PROPOSED 24" SANITARY LINE. CONTRACTOR SHALL SUPPORT AND MAINTAIN ALL EXISTING UTILITIES TO STAY IN OPERATION DURING CONSTRUCTION OF SANITARY LINE. NOTIFY ENGINEER IF CONFLICT OCCURS.




COMBINED SEWER PROFILE FROM EX. COMBINED SEWER MH TO PROP COMBINED SEWER TAP.

SCALE: 1"=20'(H)
1"=5'(V)

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| PRELIM. SEWER PLAN TO DWSD | JAN. 09, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

COMBINED SEWER PROFILE

| | |
|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: JS | Approved By: TS |
| Scale: As indicated | |

Seal:

Signature:

Drawing No:

C2.3

C:_Revit Locals\A_2016204.00_WSU-Mackenzie House_R2016_rgentsu.rvt
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Sheet Size: 30" x 42"
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GRAPHIC SCALE
0 10 20 40
( IN FEET )
1 inch = 20 ft.

## LEGEND

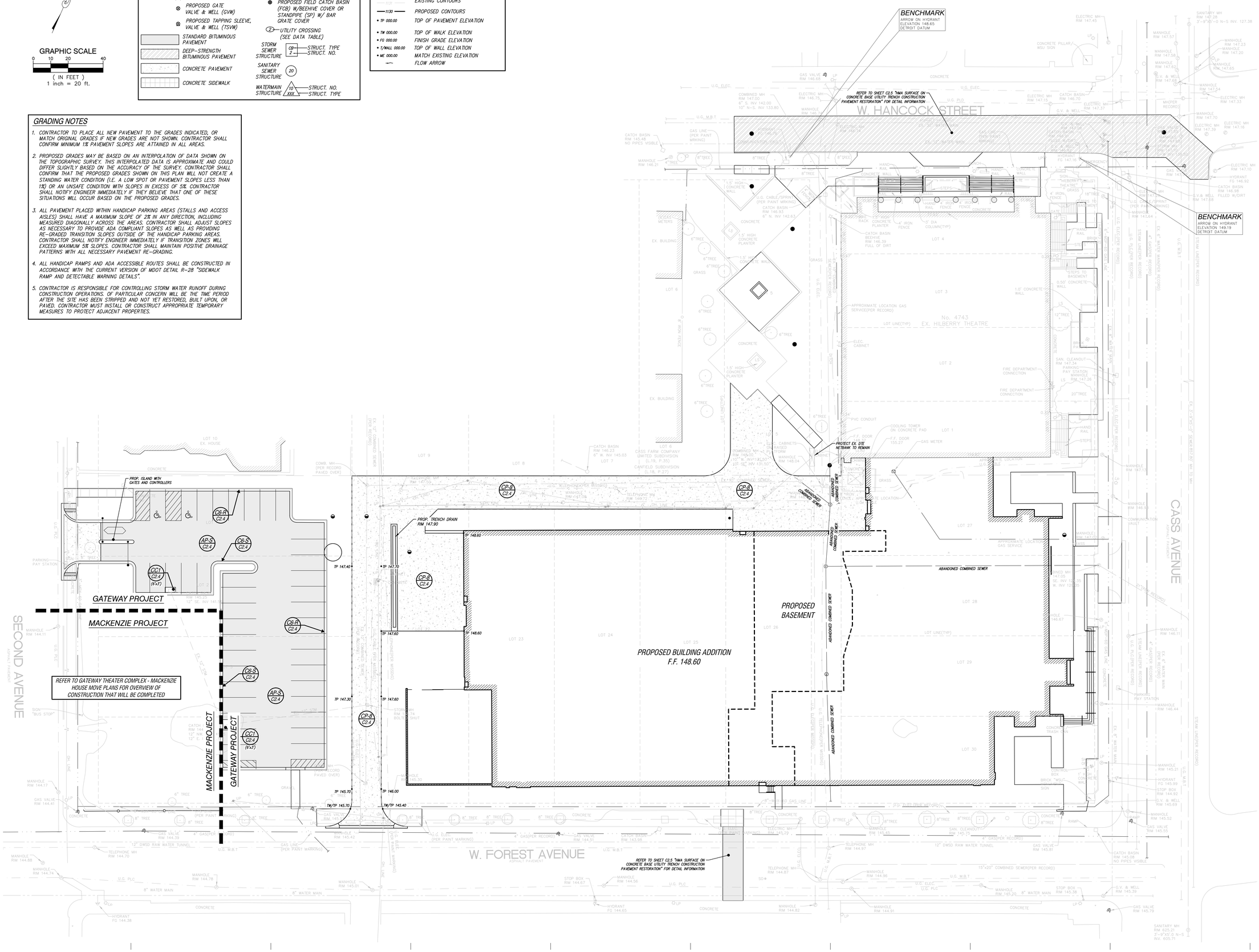
- PROPOSED WATERMAIN
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC
- PROPOSED HYDRANT
- PROPOSED GATE VALVE & WELL (GVW)
- PROPOSED TAPPING SLEEVE, VALVE & WELL (TSVW)
- STANDARD BITUMINOUS PAVEMENT
- DEEP-STRENGTH BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- PROPOSED SAN MANHOLE (SAN)
- PROPOSED STORM MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- PROPOSED INLET (INL)
- PROPOSED END SECTION (ES)
- PROPOSED FIELD CATCH BASIN (FCB) W/BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
- (2) UTILITY CROSSING (SEE DATA TABLE)
- STORM SEWER STRUCTURE: CB — STRUCT. TYPE; 2 — STRUCT. NO.
- SANITARY SEWER STRUCTURE: (20)
- WATERMAIN STRUCTURE: 10 — STRUCT. NO.; XXX — STRUCT. TYPE

## GRADING LEGEND

- 455.00 — EXISTING ELEVATION
- TC 000.00 / G 000.00 — PROPOSED TOP OF CURB ELEVATION / PROPOSED GUTTER ELEVATION
- OG 000.00 — OUTSIDE GRADE ELEVATION
- 11.50 — EXISTING CONTOURS
- 11.50 — PROPOSED CONTOURS
- TP 000.00 — TOP OF PAVEMENT ELEVATION
- TW 000.00 — TOP OF WALK ELEVATION
- FG 000.00 — FINISH GRADE ELEVATION
- T/WALL 000.00 — TOP OF WALL ELEVATION
- ME 000.00 — MATCH EXISTING ELEVATION
- FLOW ARROW

## GRADING NOTES

1. CONTRACTOR TO PLACE ALL NEW PAVEMENT TO THE GRADES INDICATED, OR MATCH ORIGINAL GRADES IF NEW GRADES ARE NOT SHOWN. CONTRACTOR SHALL CONFIRM MINIMUM 1% PAVEMENT SLOPES ARE ATTAINED IN ALL AREAS.
2. PROPOSED GRADES MAY BE BASED ON AN INTERPOLATION OF DATA SHOWN ON THE TOPOGRAPHIC SURVEY. THIS INTERPOLATED DATA IS APPROXIMATE AND COULD DIFFER SLIGHTLY BASED ON THE ACCURACY OF THE SURVEY. CONTRACTOR SHALL CONFIRM THAT THE PROPOSED GRADES SHOWN ON THIS PLAN WILL NOT CREATE A STANDING WATER CONDITION (I.E. A LOW SPOT OR PAVEMENT SLOPES LESS THAN 1%) OR AN UNSAFE CONDITION WITH SLOPES IN EXCESS OF 5%. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF THEY BELIEVE THAT ONE OF THESE SITUATIONS WILL OCCUR BASED ON THE PROPOSED GRADES.
3. ALL PAVEMENT PLACED WITHIN HANDICAP PARKING AREAS (STALLS AND ACCESS AISLES) SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION, INCLUDING MEASURED DIAGONALLY ACROSS THE AREAS. CONTRACTOR SHALL ADJUST SLOPES AS NECESSARY TO PROVIDE ADA COMPLIANT SLOPES AS WELL AS PROVIDING RE-GRADED TRANSITION SLOPES OUTSIDE OF THE HANDICAP PARKING AREAS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF TRANSITION ZONES WILL EXCEED MAXIMUM 5% SLOPES. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE PATTERNS WITH ALL NECESSARY PAVEMENT RE-GRADING.
4. ALL HANDICAP RAMPS AND ADA ACCESSIBLE ROUTES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF MDOT DETAIL R-28 "SIDEWALK RAMP AND DETECTABLE WARNING DETAILS".
5. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER RUNOFF DURING CONSTRUCTION OPERATIONS. OF PARTICULAR CONCERN WILL BE THE TIME PERIOD AFTER THE SITE HAS BEEN STRIPPED AND NOT YET RESTORED, BUILT UPON, OR PAVED. CONTRACTOR MUST INSTALL OR CONSTRUCT APPROPRIATE TEMPORARY MEASURES TO PROTECT ADJACENT PROPERTIES.




HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| OWNER | WAYNE STATE UNIVERSITY FP&M<br>5454 CASS AVE<br>DETROIT, MI 48202<br>313.577.2424 |
| CONTRACTOR | WALBRIDGE<br>777 WOODWARD AVE. SUITE 300<br>DETROIT, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
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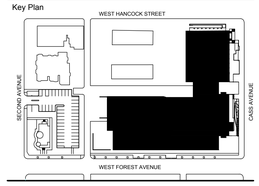
Key Plan

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| PRELIM. SEWER PLAN TO DWSD | JAN. 09, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578
Drawing Title
PAVING, LAYOUT AND GRADING PLAN

| | |
|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: JS | Approved By: TS |
| Scale: As indicated | |
| Seal: | |

Signature:

Drawing No:
C2.4

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HamiltonAnderson
architecture landscape architecture urban design

HGA

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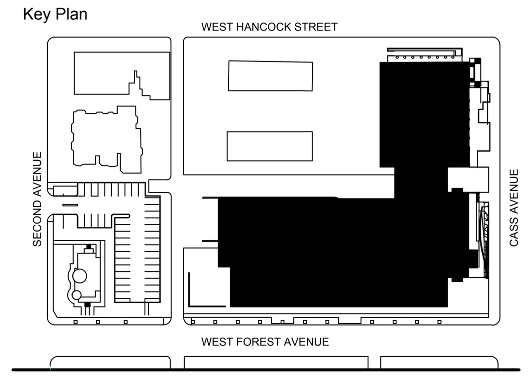
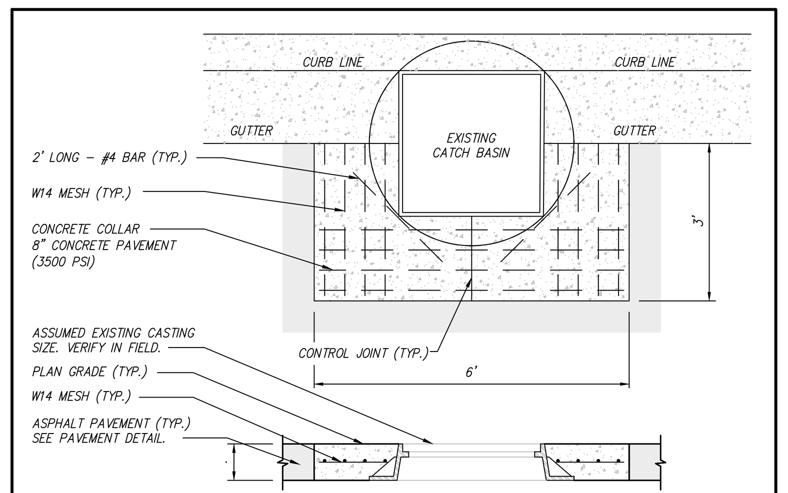
## PAVING CONSTRUCTION NOTES

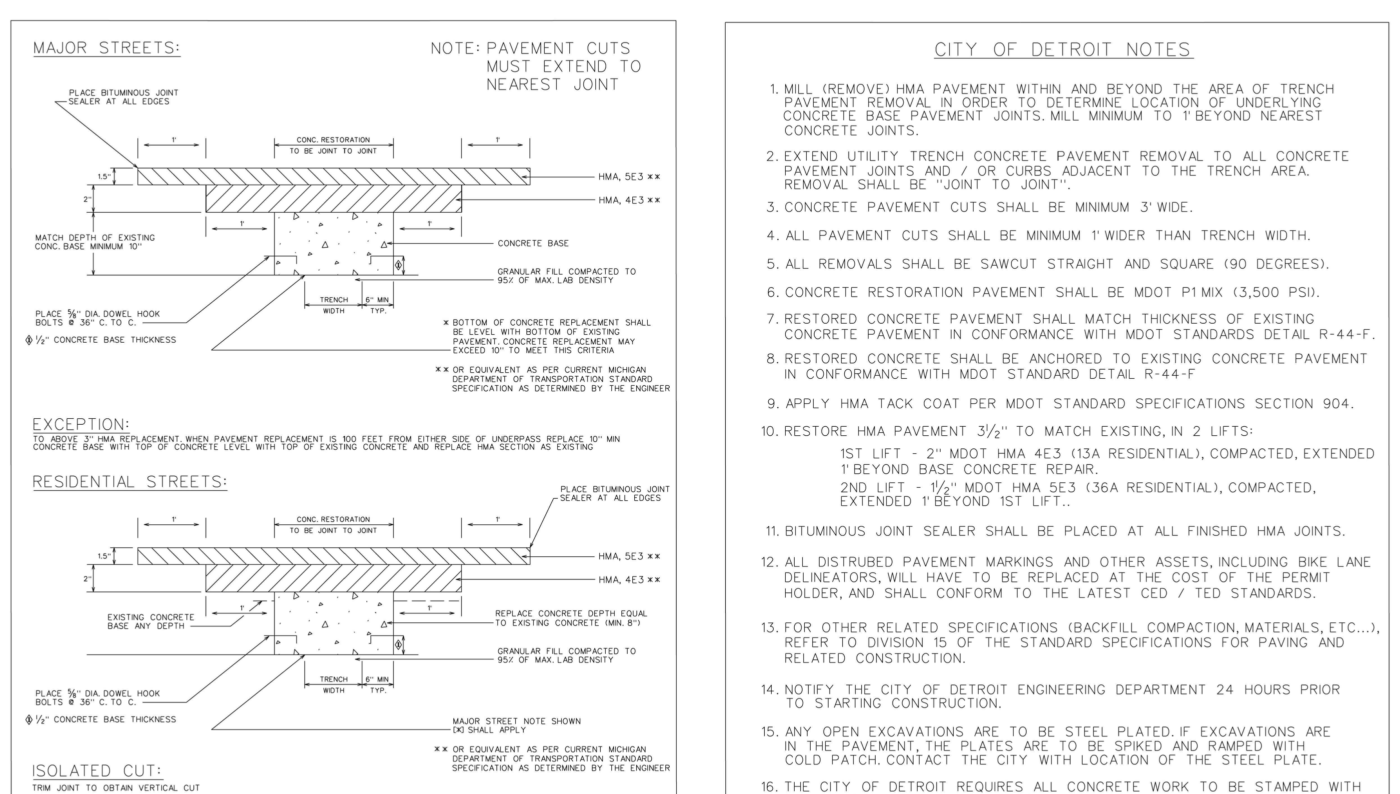
1. EARTHWORK AND PAVEMENT CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION UNLESS OTHERWISE NOTED IN THE FOLLOWING ITEMS.
2. REMOVE ANY EXISTING TOPSOIL, VEGETATION, TREES AND OTHER DELETERIOUS MATERIALS TO EXPOSE THE SUBGRADE SOIL. TREE ROOTS SHALL BE COMPLETELY REMOVED.
3. EXCAVATE TO THE DEPTH OF THE FINAL SUBGRADE ELEVATION TO ALLOW FOR GRADE CHANGES AND THE PLACEMENT OF THE RECOMMENDED PAVEMENT SYSTEM.
4. THE TOP 12 INCHES OF THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A DENSITY NO LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR (ASTM D 1557-91).
5. THE FINAL SUBGRADE SHALL BE THOROUGHLY PROOFROLLED UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS WHICH CANNOT BE MECHANICALLY STABILIZED SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
6. THE AGGREGATE BASE SHALL BE COMPACTED TO A DENSITY NO LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR (ASTM D 1557-91). THE BASE SHALL EXTEND A MINIMUM OF 1 FOOT BEYOND THE PAVED EDGE.
7. ALL BITUMINOUS MATERIAL SHALL BE COMPACTED TO A DENSITY NO LESS THAN 97 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE MARSHALL METHOD.
8. A BOND COAT OF SS-1H EMULSION IS REQUIRED BETWEEN THE LEVELING COURSE AND THE WEARING COURSE WHEN EITHER 24 HOURS HAVE ELAPSED BETWEEN PLACEMENT OF THE BITUMINOUS COURSES OR THE SURFACE OF THE PAVEMENT HAS BEEN CONTAMINATED WITH DIRT, DUST, OR FOREIGN MATERIAL. THE BOND COAT SHALL BE APPLIED IN A UNIFORM MANNER OVER THE SURFACE AT A RATE OF 0.1 GALLONS/S.Y. IN THE EVENT A BOND COAT IS NOT REQUIRED, THE LEVELING COURSE MAY REQUIRE LOCALIZED BROOM CLEANING.
9. PERFORMANCE GRADE PG64-22 ASPHALT CEMENT SHALL BE USED IN THE PRODUCTION OF ALL BITUMINOUS MIXTURES. RECLAIMED ASPHALT PAVEMENT (RAP) SHALL BE ALLOWED ONLY AS SPECIFIED BY THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, UNLESS NOTED ON THE PROJECT DETAILS.
10. CONSTRUCTION TRAFFIC SHALL BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE PLACEMENT OF THE FINAL LIFT SHALL BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR TO ANY DAMAGED SECTION RESULTING FROM CONSTRUCTION ACTIVITY.
11. WHERE CURB AND GUTTER SECTION IS ADJACENT TO A HANDICAP RAMP, DROP CURB HEIGHT TO MAXIMUM 1/4" ACROSS THE RAMP OPENING.
12. RESTRIPE PARKING LOTS AS SHOWN, USING 4" PAVEMENT MARKING - BLUE FOR HANDICAP SPACES, YELLOW FOR STANDARD SPACES. IF NEW PARKING LAYOUT IS NOT INDICATED, MATCH ORIGINAL STRIPING PATTERN.
13. DIRECTIONAL ARROW PAVEMENT MARKINGS AND PAVEMENT MARKING LETTERING WHERE INDICATED SHALL BE WHITE PREFORMED THERMOPLASTIC UNLESS OTHERWISE NOTED. INSTALLATION OF THESE PERMANENT PAVEMENT MARKINGS SHALL BE PERFORMED PER THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTIONS 811 AND 920.
14. CONTRACTOR SHALL PROTECT EXISTING CURB, GUTTER, SIDEWALK, WALLS, FENCES AND ALL OTHER EXISTING SITE FEATURES NOT INDICATED FOR REMOVAL OR REHABILITATION.
15. PLACE EXPANSION JOINTS WHERE NEW CONCRETE PAVEMENT OR WALKS ABUT BUILDING WALLS (PROPOSED OR EXISTING), CURB, OR EXISTING CONCRETE PAVEMENT. PLACE JOINT SEALANT ON ALL EXPANSION JOINTS.
16. CONTRACTOR TO CONSTRUCT CONTRACTION AND EXPANSION JOINTS IN ALL NEW CONCRETE PAVEMENT. CONTRACTION JOINTS SHALL BE TOOLED WHERE SIDEWALK WIDTH IS 8' OR LESS, AND SHALL BE SPACED EQUAL TO THE WIDTH OF THE PAVEMENT (I.E. 8' SPACING FOR 8' WIDE WALK), BUT NOT MORE THAN 10' APART. PLACE EXPANSION JOINTS WITH JOINT SEALANT AT MAXIMUM 50' SPACING. CONTRACTOR SHALL GENERALLY MATCH THE JOINT PATTERNS FOR CONCRETE PAVEMENT WHEN SHOWN ON THE PLANS.
17. CONTRACTOR TO SUBMIT JOINTING PLAN FOR REVIEW.
18. CONCRETE PAVEMENT SHALL MEET THE REQUIREMENTS FOR MDOT GRADE P1 CONCRETE PER THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

Key Plan




DETAIL CC1 / C2.5
CONCRETE COLLAR AT CURB

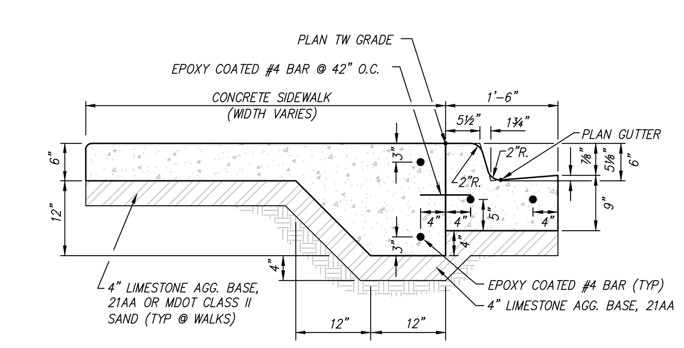



| B | | | | | |
|---|---|---|---|---|---|
| A | | | | | |
| DESCRIPTION | DRWN | CHKD | APPD | DATE |
| REVISIONS | | | | |
| DRAWN BY WLW | CHECKED KSM | HMA SURFACE ON CONCRETE BASE UTILITY TRENCH CONSTRUCTION PAVEMENT RESTORATION | CITY OF DETROIT<br>CITY ENGINEERING DIVISION<br>SURVEY BUREAU | JOB NO. | |
| DATE 08/29/18 | APPROVED SRB | | DRWG. NO. 1 OF 2 | | |

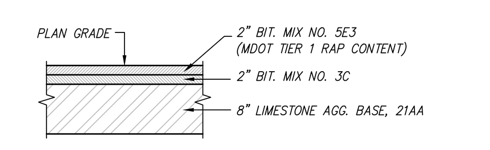
### CITY OF DETROIT NOTES

1. MILL (REMOVE) HMA PAVEMENT WITHIN AND BEYOND THE AREA OF TRENCH PAVEMENT REMOVAL IN ORDER TO DETERMINE LOCATION OF UNDERLYING CONCRETE BASE PAVEMENT JOINTS. MILL MINIMUM TO 1' BEYOND NEAREST CONCRETE JOINTS.
2. EXTEND UTILITY TRENCH CONCRETE PAVEMENT REMOVAL TO ALL CONCRETE PAVEMENT JOINTS AND / OR CURBS ADJACENT TO THE TRENCH AREA. REMOVAL SHALL BE "JOINT TO JOINT".
3. CONCRETE PAVEMENT CUTS SHALL BE MINIMUM 3' WIDE.
4. ALL PAVEMENT CUTS SHALL BE MINIMUM 1' WIDER THAN TRENCH WIDTH.
5. ALL REMOVALS SHALL BE SAWCUT STRAIGHT AND SQUARE (90 DEGREES).
6. CONCRETE RESTORATION PAVEMENT SHALL BE MDOT P1 MIX (3,500 PSI).
7. RESTORED CONCRETE PAVEMENT SHALL MATCH THICKNESS OF EXISTING CONCRETE PAVEMENT IN CONFORMANCE WITH MDOT STANDARDS DETAIL R-44-F.
8. RESTORED CONCRETE SHALL BE ANCHORED TO EXISTING CONCRETE PAVEMENT IN CONFORMANCE WITH MDOT STANDARD DETAIL R-44-F
9. APPLY HMA TACK COAT PER MDOT STANDARD SPECIFICATIONS SECTION 904.
10. RESTORE HMA PAVEMENT 3½" TO MATCH EXISTING, IN 2 LIFTS:
    1ST LIFT - 2" MDOT HMA 4E3 (13A RESIDENTIAL), COMPACTED, EXTENDED 1' BEYOND BASE CONCRETE REPAIR.
    2ND LIFT - 1½" MDOT HMA 5E3 (36A RESIDENTIAL), COMPACTED, EXTENDED 1' BEYOND 1ST LIFT..
11. BITUMINOUS JOINT SEALER SHALL BE PLACED AT ALL FINISHED HMA JOINTS.
12. ALL DISTRUBED PAVEMENT MARKINGS AND OTHER ASSETS, INCLUDING BIKE LANE DELINEATORS, WILL HAVE TO BE REPLACED AT THE COST OF THE PERMIT HOLDER, AND SHALL CONFORM TO THE LATEST CED / TED STANDARDS.
13. FOR OTHER RELATED SPECIFICATIONS (BACKFILL COMPACTION, MATERIALS, ETC...), REFER TO DIVISION 15 OF THE STANDARD SPECIFICATIONS FOR PAVING AND RELATED CONSTRUCTION.
14. NOTIFY THE CITY OF DETROIT ENGINEERING DEPARTMENT 24 HOURS PRIOR TO STARTING CONSTRUCTION.
15. ANY OPEN EXCAVATIONS ARE TO BE STEEL PLATED. IF EXCAVATIONS ARE IN THE PAVEMENT, THE PLATES ARE TO BE SPIKED AND RAMPED WITH COLD PATCH. CONTACT THE CITY WITH LOCATION OF THE STEEL PLATE.
16. THE CITY OF DETROIT REQUIRES ALL CONCRETE WORK TO BE STAMPED WITH A CONTRACTORS IDENTIFICATION STAMP.

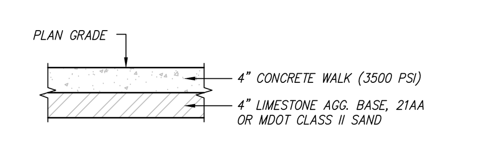
| B | | | | | |
|---|---|---|---|---|---|
| A | | | | | |
| DESCRIPTION | DRWN | CHKD | APPD | DATE |
| REVISIONS | | | | |
| DRAWN BY WLW | CHECKED KSM | HMA SURFACE ON CONCRETE BASE UTILITY TRENCH CONSTRUCTION PAVEMENT RESTORATION | CITY OF DETROIT<br>CITY ENGINEERING DIVISION<br>SURVEY BUREAU | JOB NO. | |
| DATE 08/29/18 | APPROVED SRB | | DRWG. NO. 2 OF 2 | | |



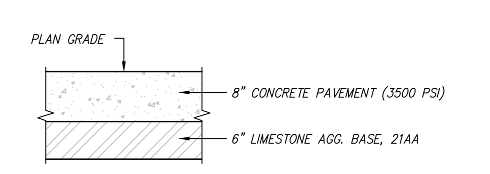

SECTION X-1 / C2.5
WALK/CURB & GUTTER STANDARD PAN



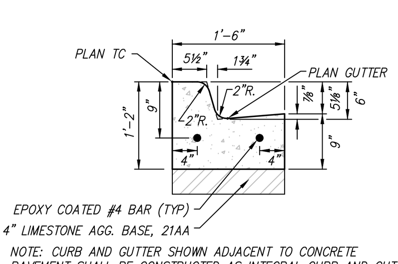

DETAIL AP-S / C2.5
STANDARD BITUMINOUS PAVEMENT




DETAIL CP-4 / C2.5
4" CONCRETE WALK

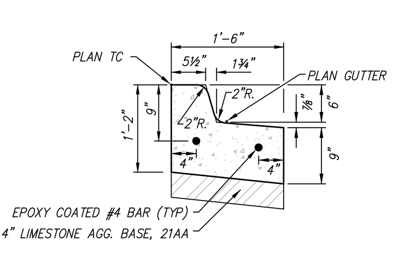



DETAIL CP-8 / C2.5
8" CONCRETE PAVEMENT




NOTE: CURB AND GUTTER SHOWN ADJACENT TO CONCRETE PAVEMENT SHALL BE CONSTRUCTED AS INTEGRAL CURB AND GUTTER.

DETAIL C6-S / C2.5
6" CURB & GUTTER STANDARD PAN
(MDOT TYPE F1)




DETAIL C6-R / C2.5
6" CURB & GUTTER REVERSE PAN
(MDOT TYPE F1)

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| PRELIM. SEWER PLAN TO DWSD | JAN. 09, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## PAVING DETAILS AND NOTES

Project Number: 3995-001-00

Drawn By: JS Approved By: TS

Scale: As indicated

Seal:

Signature:

Drawing No:

C2.5

C:_Revit Locals\A_2016034.00_WSU-Mackenzie House_R2016_ngerou.rvt
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Sheet Size: 30" x 42"
2018_01_11.0: Template Version

GRAPHIC SCALE
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( IN FEET )
1 inch = 20 ft.

## LEGEND

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- PROPOSED SANITARY
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- PROPOSED ELECTRIC
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- PROPOSED GATE VALVE & WELL (GVW)
- PROPOSED TAPPING SLEEVE, VALVE & WELL (TSVW)
- STANDARD BITUMINOUS PAVEMENT
- DEEP-STRENGTH BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
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- PROPOSED STORM MANHOLE (MH)
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- 2 UTILITY CROSSING (SEE DATA TABLE)
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## GRADING LEGEND

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- TP 000.00 — TOP OF PAVEMENT ELEVATION
- TW 000.00 — TOP OF WALK ELEVATION
- FG 000.00 — FINISH GRADE ELEVATION
- T/WALL 000.00 — TOP OF WALL ELEVATION
- ME 000.00 — MATCH EXISTING ELEVATION
- FLOW ARROW

## SOIL EROSION CONTROL DEVICES

- SILTSACK
- 24" SILT FENCE
- ECOLOFENCE


Price and Company, Inc.

**ECOLOFENCE CB**

**PROTECT INLETS DURING CONSTRUCTION**



To Order Call
**1-800-248-8230**

**ECOLOFENCE CB** is a member of the sediment control fence family made exclusively for **Price and Company, Inc.** From select wood stock with rotary points to the certified Amoco Fabrics and Fibers Company geotextile to the lath and staple securing details, **ECOLOFENCE CB** meets rigorous physical, mechanical and hydraulic performance characteristics. This attention to quality translates to better value to you: your installation of these inlet protection fences will be problem-free and each fence provides long-term protection against sediment accumulation within the basin and accompanying pipes. When safeguarding your site from becoming a sediment source, use **ECOLOFENCE CB** as a Best Management Practice!

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Price and Company, Inc.

**SILTSACK®**
Trademark owned by ACF Environmental

**PROTECT CATCH BASINS FROM SEDIMENT & TRASH**



**SILTSACK** traps sand, debris and most silt particles before they reach the sump or pipes. Costly basin and pipe system cleaning are reduced. With **SILTSACK**, maintenance is easy and site flooding is just a memory. Best of all, **SILTSACK** can be reused!

**SILTSACK WORKS!**

- EASY TO INSTALL - EASY TO MAINTAIN
- ECONOMICAL
- FABRICATED TO FIT ANY SIZE OR SHAPE
- PERMEABILITY OF 200 GPM/SF [Hi-Flow style]
- REPLACES ALL ROCK OR GEOTEXTILES
- REUSABLE

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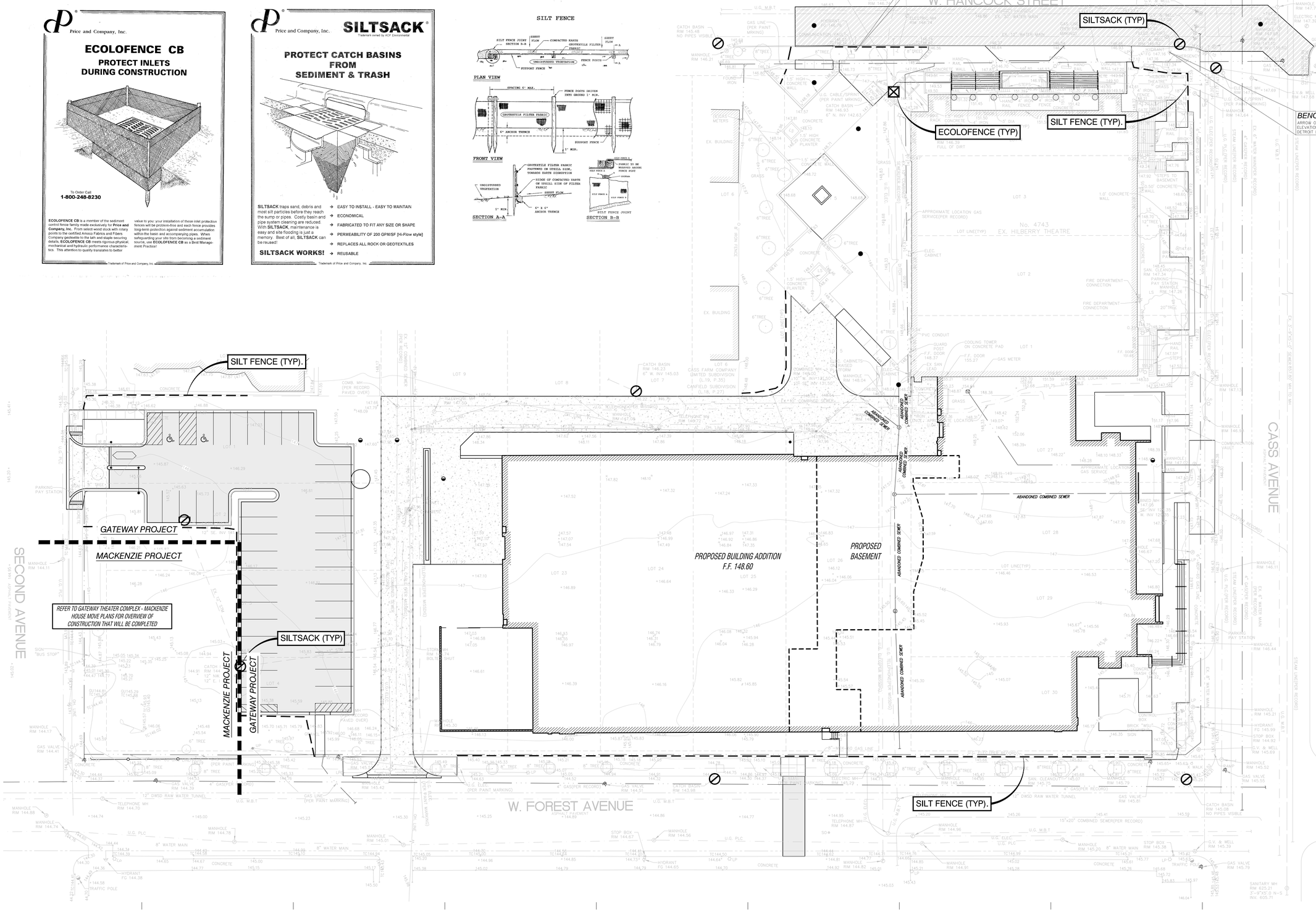
SILT FENCE

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WAYNE STATE UNIVERSITY

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|---|---|
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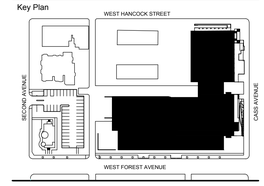
| CONTRACTOR | WALBRIDGE<br>777 WOODWARD AVE. SUITE 300<br>DETROIT, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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| PRELIM. SEWER PLAN TO DWSD | JAN. 09, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578
Drawing Title
SOIL EROSION AND SEDIMENTATION CONTROL PLAN

Project Number: 3995-001-00
Drawn By: JS Approved By: TS
Scale: As indicated
Seal:

Signature:

Drawing No:
C2.6

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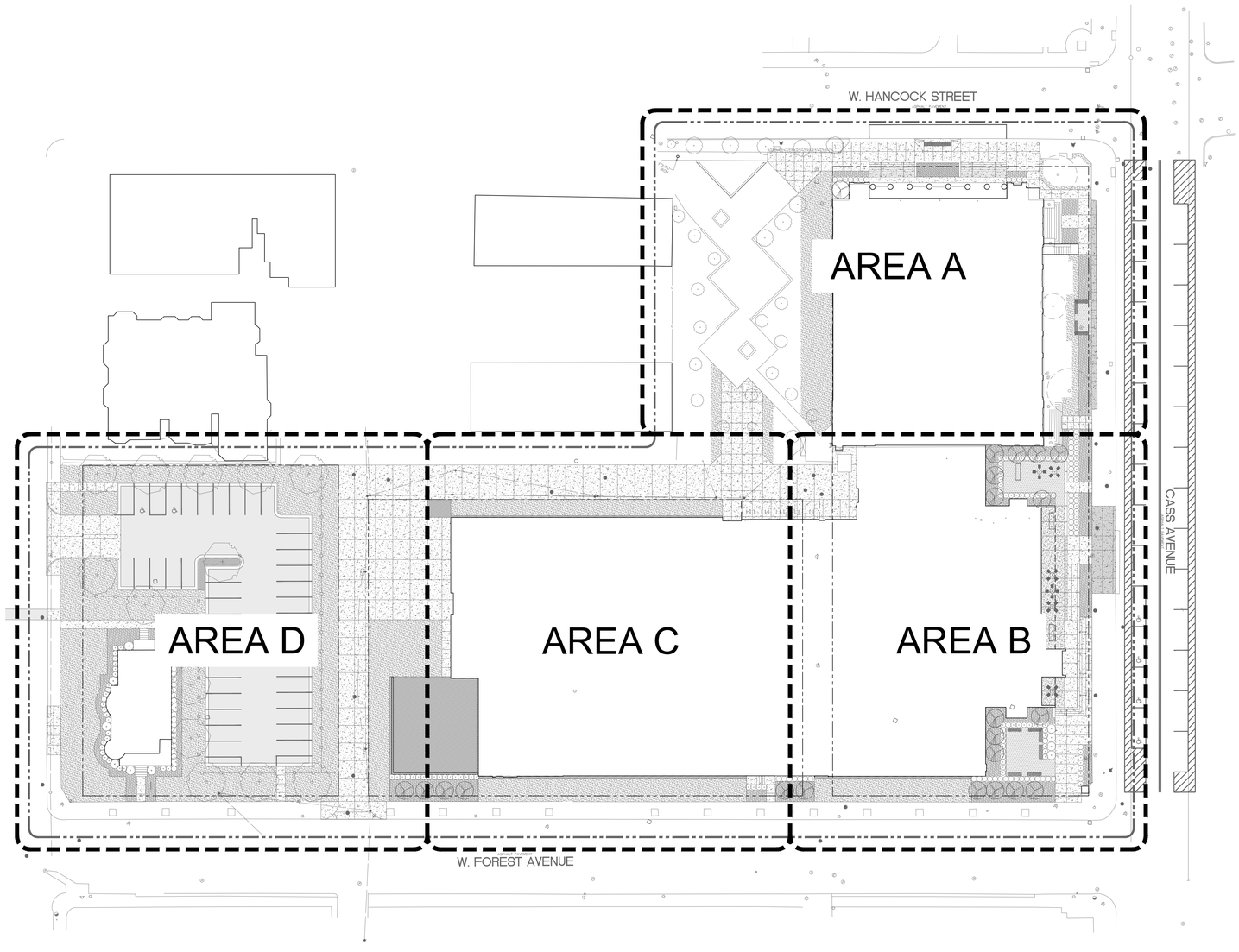


## LEGEND

PROJECT LIMIT

MATCH LINE

PROPERTY LINE

## NOTES

1. LAYOUT DIMENSIONS ARE FROM THE BACK OF CURB UNLESS OTHERWISE STATED.

SCALE: 1" = 30'-0"

0' 30' 60' 90'

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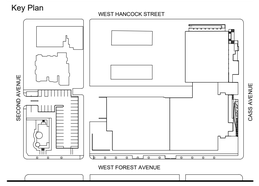
Key Plan

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| 50% DESIGN DEVELOPMENT | NOV 30, 2018 |

Project

WSU PROJECT NO. 189-178578

Drawing Title

# KEY PLAN

| | |
|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: | GCR |
| Scale: | AS SHOWN |

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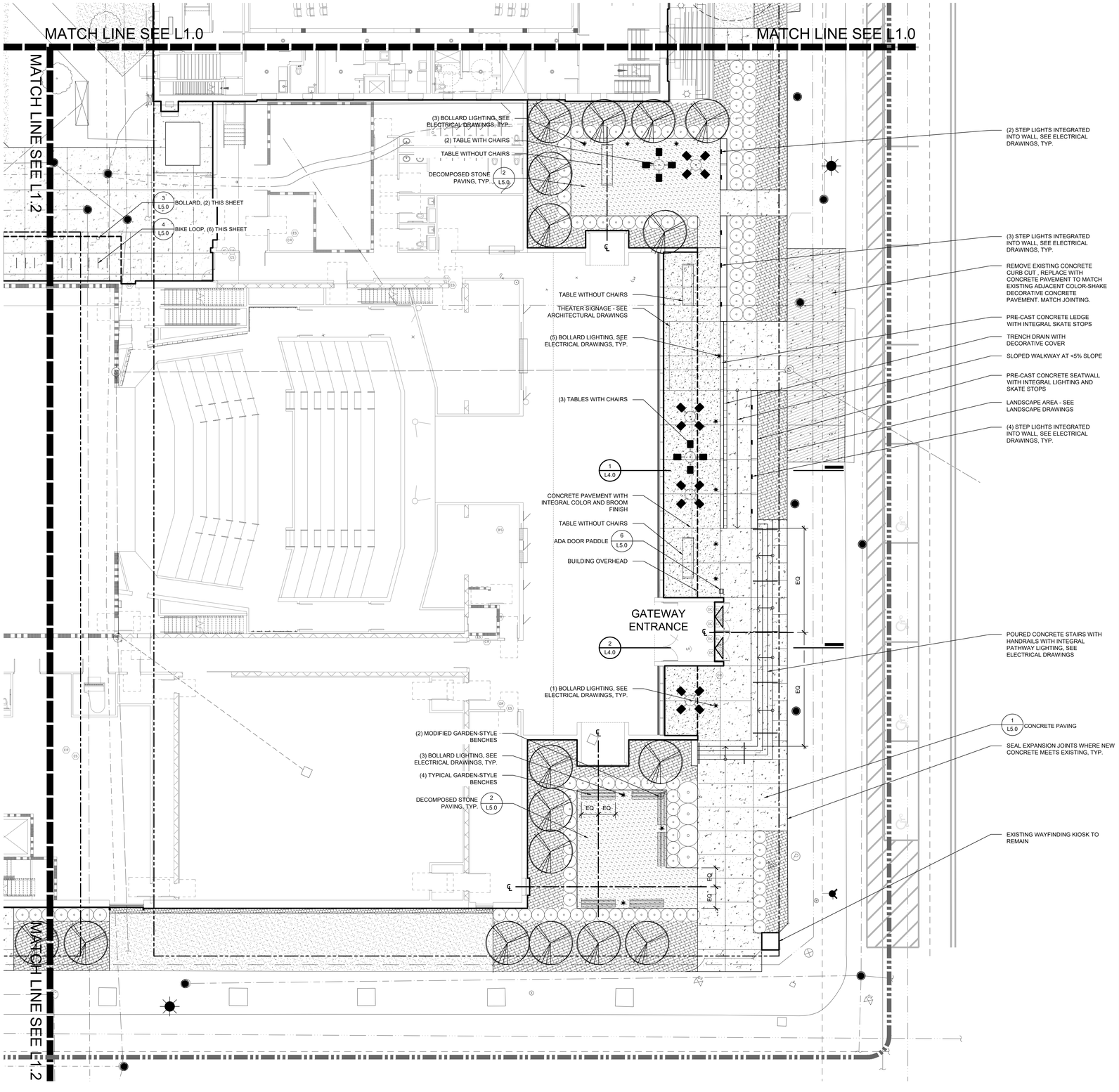


## LEGEND

- PROJECT LIMITS
- MATCHLINE
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT - BROOM FINISH
- CONCRETE PAVEMENT - DECORATIVE FINISH
- CONCRETE PAVEMENT - MATCH EXISTING DECORATIVE FINISH
- STABILIZED DECOMPOSED STONE PAVING
- AGGREGATE GROUNDCOVER
- ORNAMENTAL METAL FENCING
- TREE GRATE
- TURF
- LANDSCAPE AREA
- EXISTING TREE TO REMAIN
- ORNAMENTAL TREE
- SHADE TREE

## NOTES

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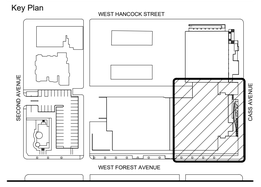
Key Plan

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Project

WSU PROJECT NO. 189-178578

Drawing Title

# SITE MATERIALS PLAN - AREA B

Project Number: 3995-001-00

Drawn By: GCR

Scale: AS SHOWN

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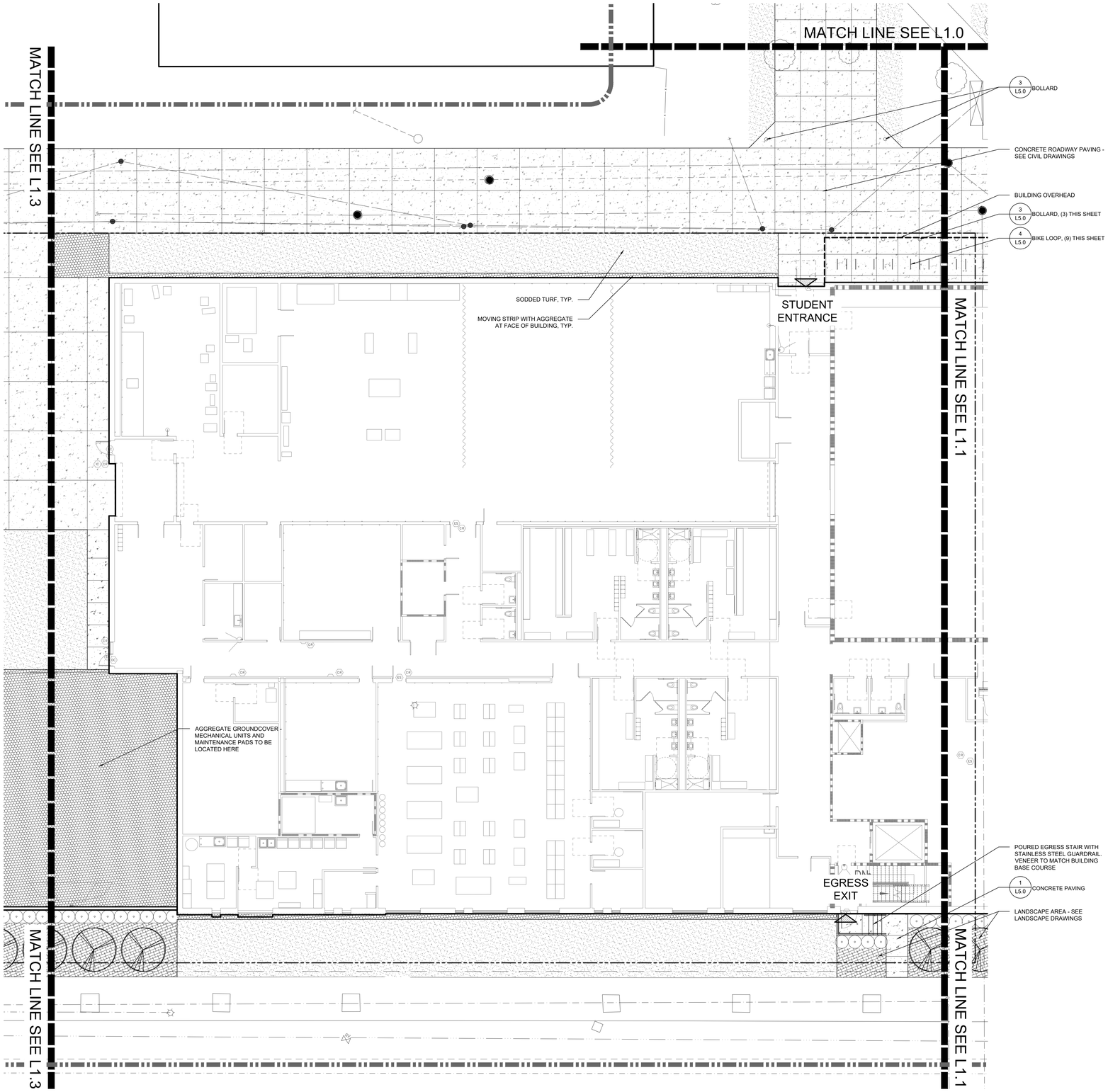


SCALE: 1" = 10'-0"

0' 10' 20' 30'

## LEGEND

- PROJECT LIMITS
- MATCHLINE
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT - BROOM FINISH
- CONCRETE PAVEMENT - DECORATIVE FINISH
- CONCRETE PAVEMENT - MATCH EXISTING DECORATIVE FINISH
- STABILIZED DECOMPOSED STONE PAVING
- AGGREGATE GROUNDCOVER
- ORNAMENTAL METAL FENCING
- TREE GRATE
- TURF
- LANDSCAPE AREA
- EXISTING TREE TO REMAIN
- ORNAMENTAL TREE
- SHADE TREE

## NOTES

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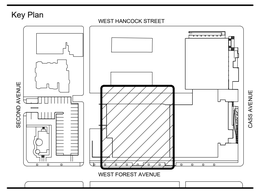
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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WSU PROJECT NO. 189-178578

Drawing Title

# SITE MATERIALS PLAN - AREA C

Project Number: 3995-001-00

Drawn By: GCR

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Drawing No:

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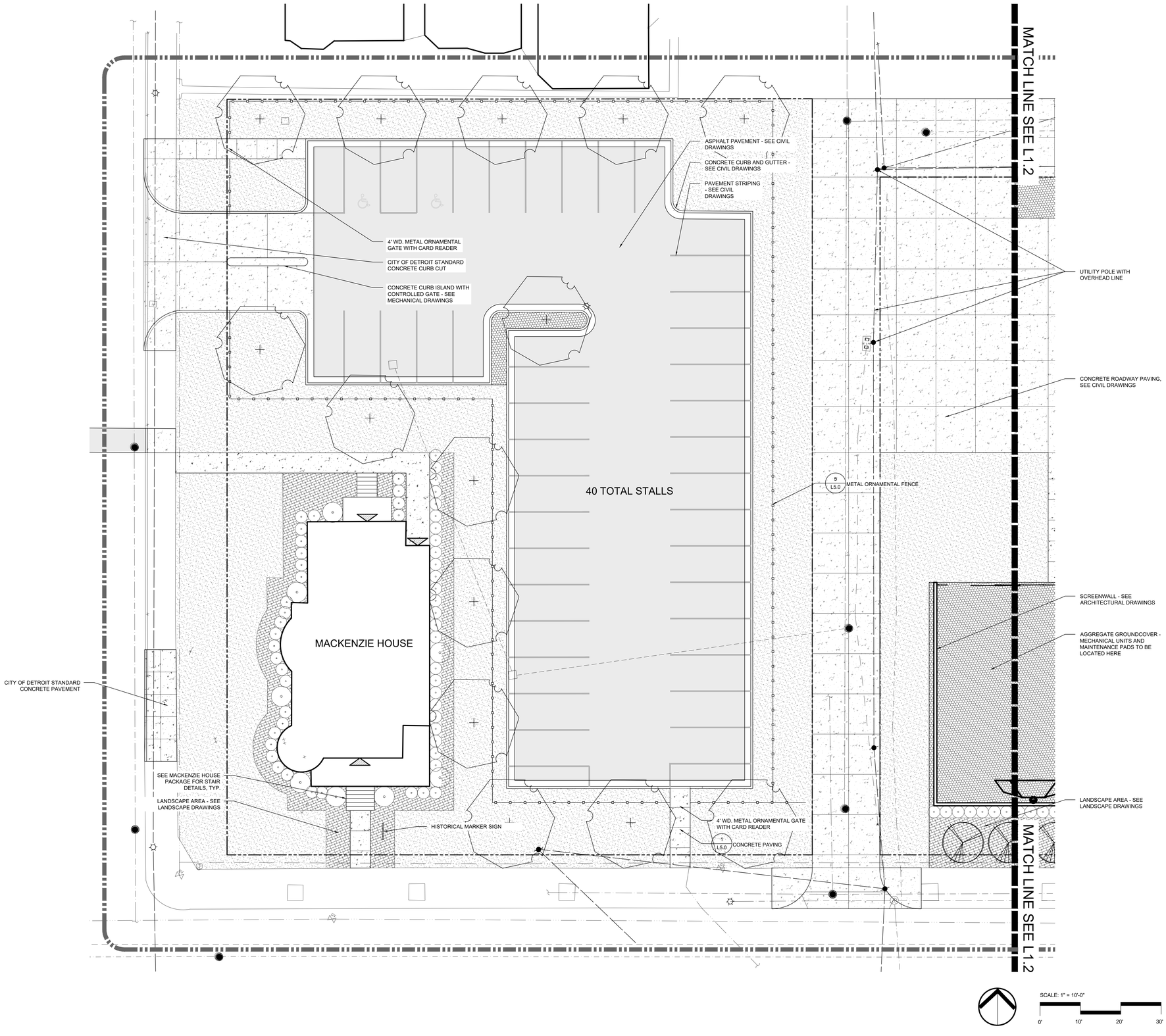


SCALE: 1" = 10'-0"

0' 10' 20' 30'

## LEGEND

- PROJECT LIMITS
- MATCHLINE
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT - BROOM FINISH
- CONCRETE PAVEMENT - DECORATIVE FINISH
- CONCRETE PAVEMENT - MATCH EXISTING DECORATIVE FINISH
- STABILIZED DECOMPOSED STONE PAVING
- AGGREGATE GROUNDCOVER
- ORNAMENTAL METAL FENCING
- TREE GRATE
- TURF
- LANDSCAPE AREA
- EXISTING TREE TO REMAIN
- ORNAMENTAL TREE
- SHADE TREE

## NOTES

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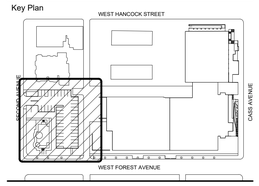
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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| 50% DESIGN DEVELOPMENT | NOV 30, 2018 |

Project

WSU PROJECT NO. 189-178578

Drawing Title

# SITE MATERIALS PLAN - AREA D

| | |
|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: | GCR |
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Drawing No:

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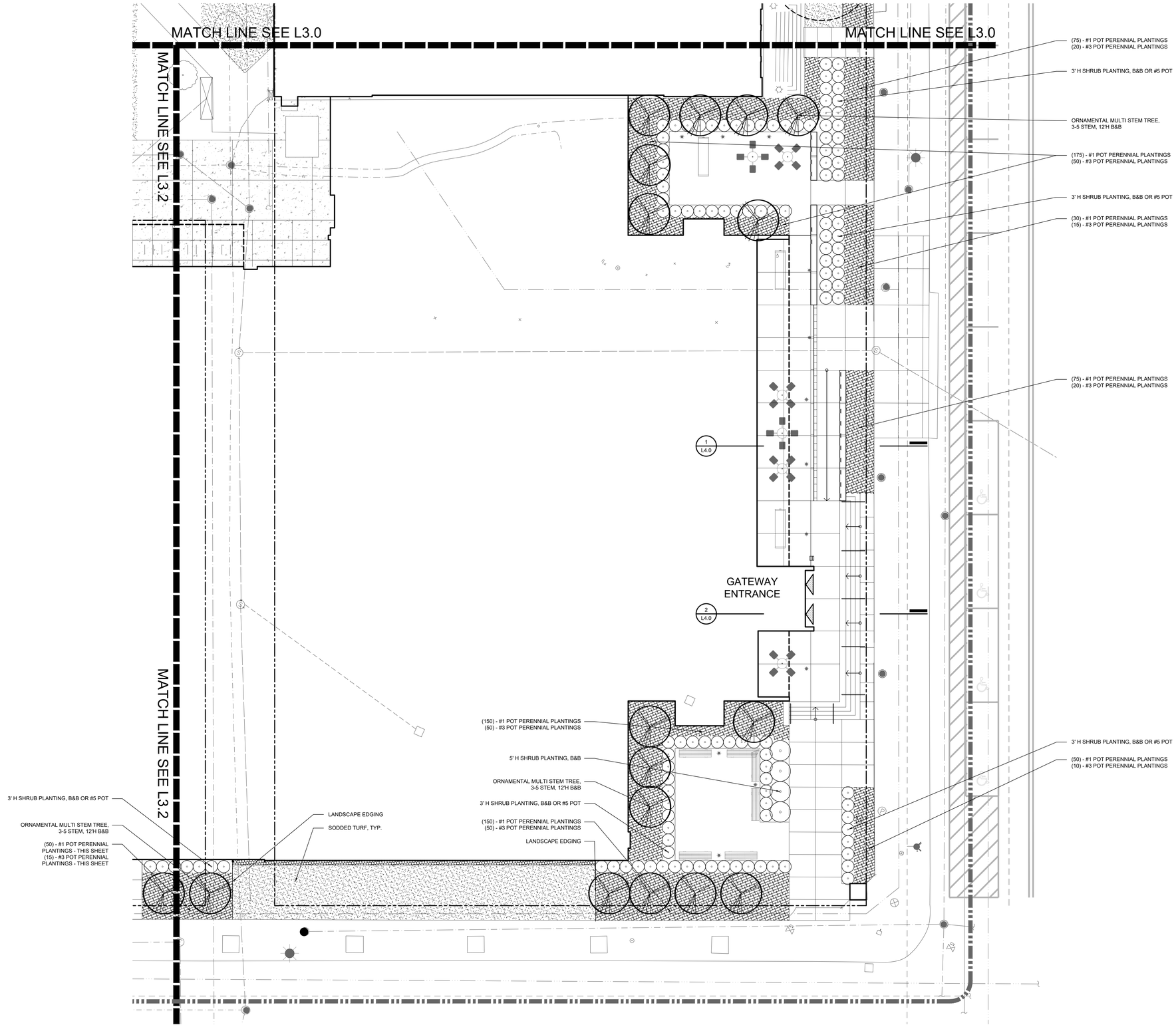


## LEGEND

- PROJECT LIMITS
- MATCHLINE
- TURF
- LANDSCAPE
- DECIDUOUS SHRUB
- EVERGREEN SHRUB
- ORNAMENTAL TREE
- EVERGREEN TREE
- DECIDUOUS TREE
- CATCH BASIN
- MANHOLE
- LIGHT POLE & FOUNDATION
- FIRE HYDRANT

## NOTES

1. REFER TO LANDSCAPE DETAILS FOR PLANT LIST

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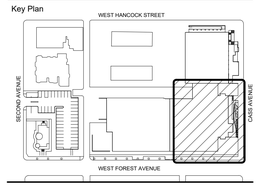
Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV 30, 2018 |

Project

WSU PROJECT NO. 189-178578

Drawing Title

# LANDSCAPE PLAN - AREA B

| | |
|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: | GCR |
| Scale: | AS SHOWN |

Seal:

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Signature:

Drawing No:

L3.1

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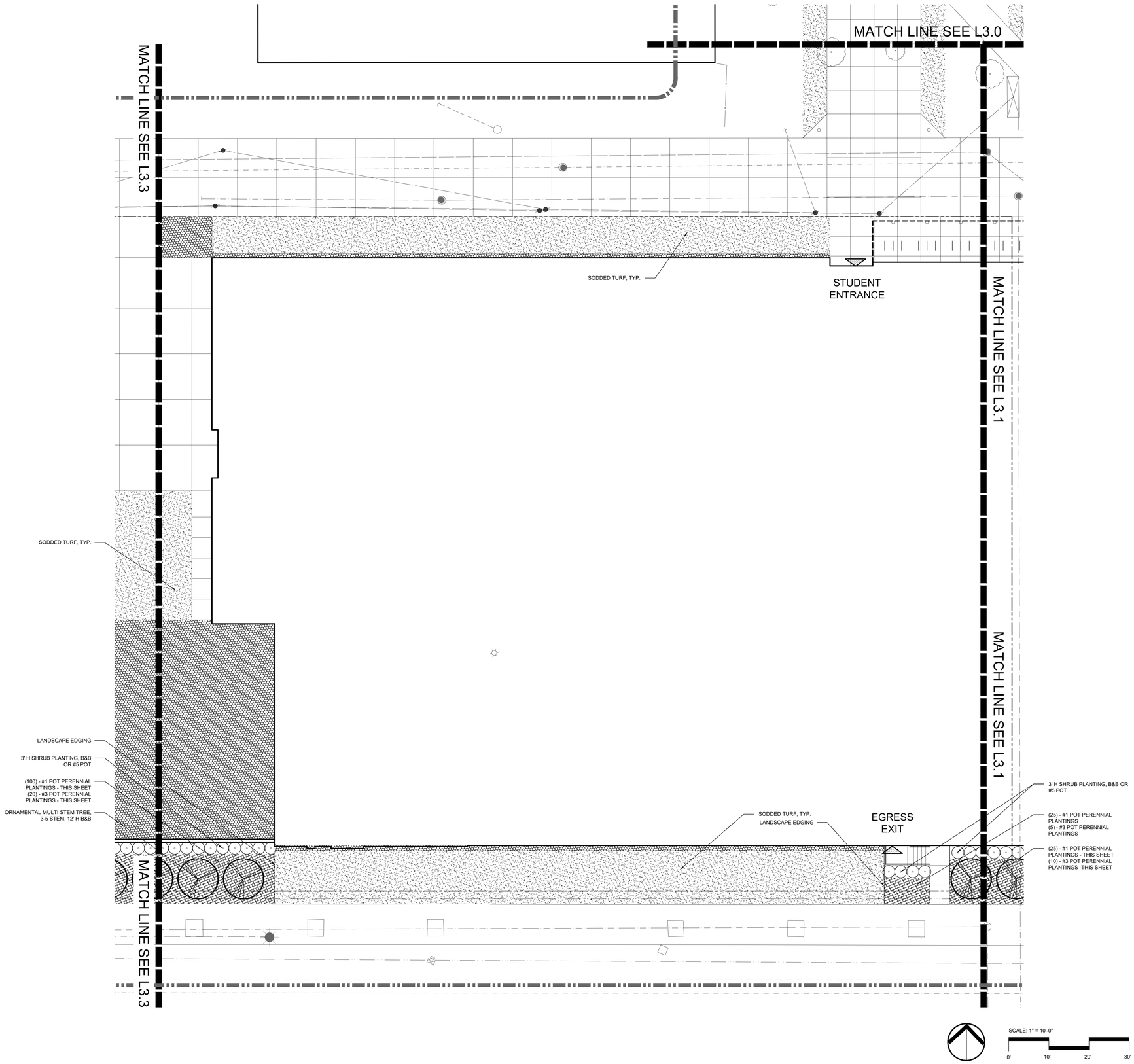


## LEGEND

- PROJECT LIMITS
- MATCHLINE
- TURF
- LANDSCAPE
- DECIDUOUS SHRUB
- EVERGREEN SHRUB
- ORNAMENTAL TREE
- EVERGREEN TREE
- DECIDUOUS TREE
- CATCH BASIN
- MANHOLE
- LIGHT POLE & FOUNDATION
- FIRE HYDRANT

## NOTES

1. REFER TO LANDSCAPE DETAILS FOR PLANT LIST

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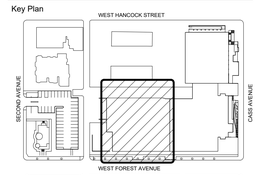
Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV 30, 2018 |

Project

WSU PROJECT NO. 189-178578

Drawing Title

# LANDSCAPE PLAN - AREA C

| | |
|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: | GCR |
| Scale: | AS SHOWN |

Seal:

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Signature:

Drawing No:

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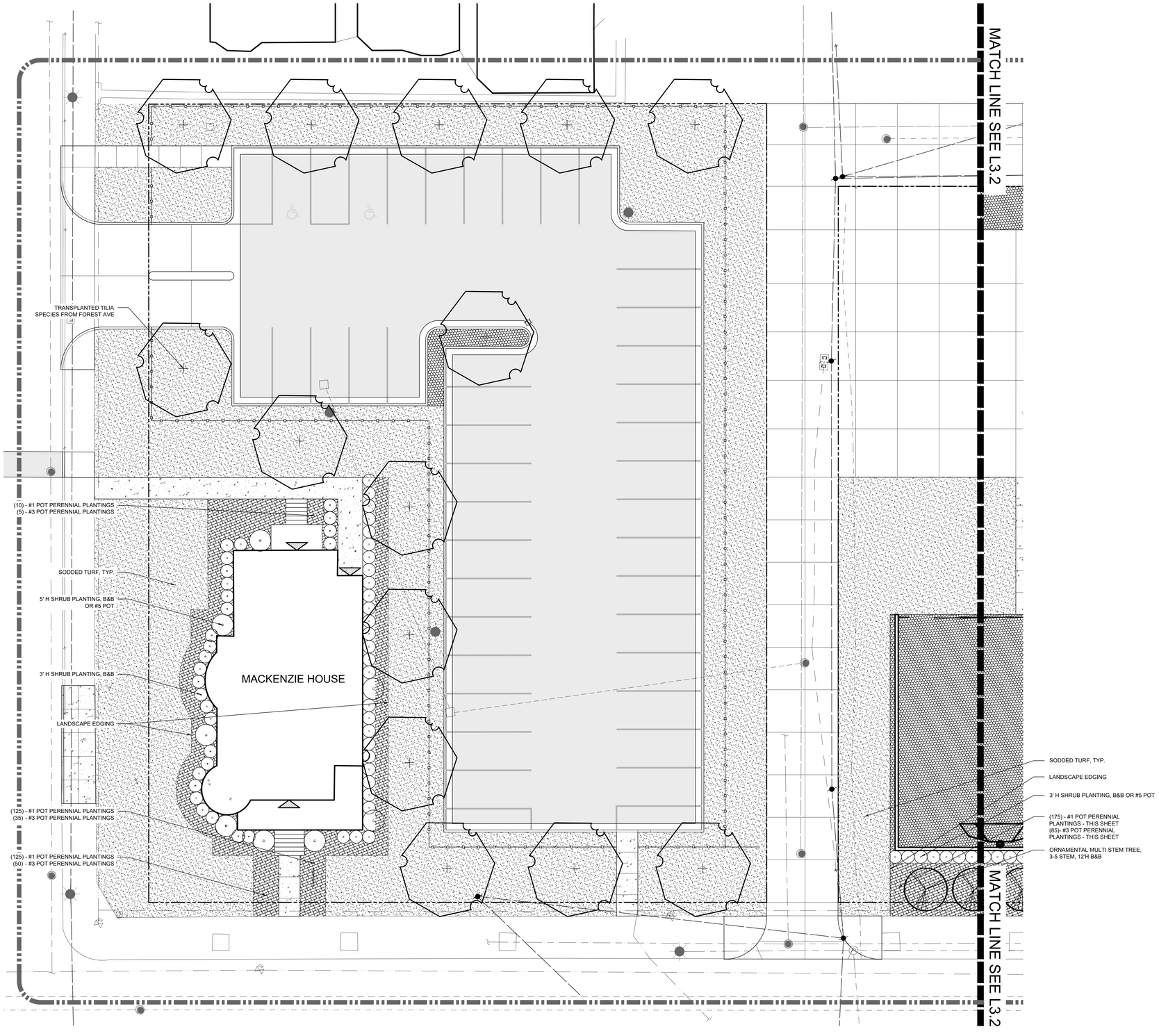


SCALE: 1" = 10'-0"

0' 10' 20' 30'

## LEGEND

- PROJECT LIMITS
- MATCHLINE
- TURF
- LANDSCAPE
- DECIDUOUS SHRUB
- EVERGREEN SHRUB
- ORNAMENTAL TREE
- EVERGREEN TREE
- DECIDUOUS TREE
- CATCH BASIN
- MANHOLE
- LIGHT POLE & FOUNDATION
- FIRE HYDRANT

## NOTES

1. REFER TO LANDSCAPE DETAILS FOR PLANT LIST

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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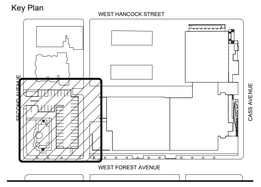
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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| 50% DESIGN DEVELOPMENT | NOV 30, 2018 |

Project

WSU PROJECT NO. 189-178578

Drawing Title

# LANDSCAPE PLAN - AREA D

| | |
|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: | GCR |
| Scale: | AS SHOWN |

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L3.3

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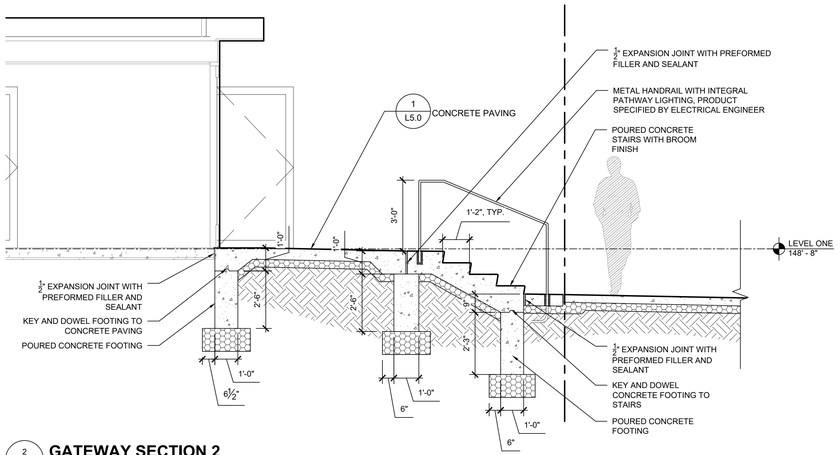
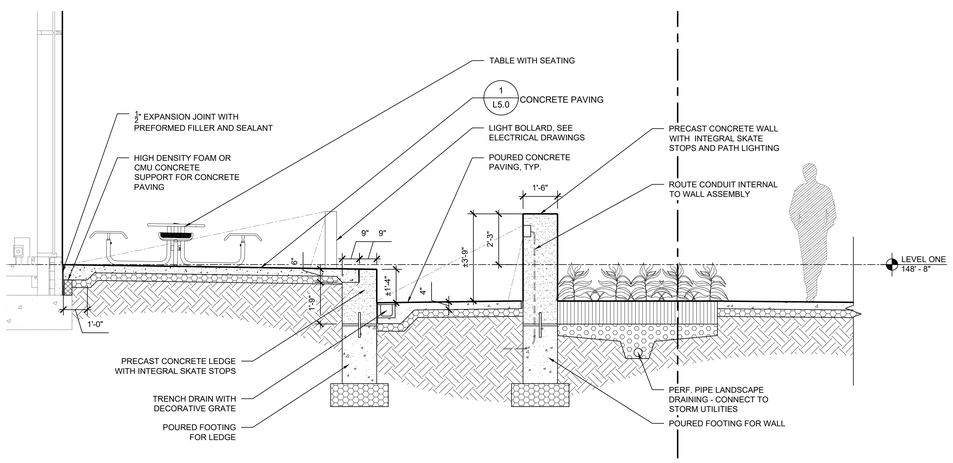



2 L4.0 **GATEWAY SECTION 2**
SCALE: 3/8" = 1'-0"




1 L4.0 **GATEWAY SECTION 1**
SCALE: 3/8" = 1'-0"

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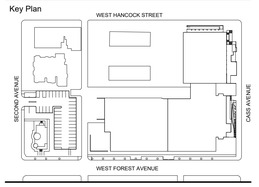


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Project

WSU PROJECT NO. 189-178578

Drawing Title

# SITE SECTIONS

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|---|---|
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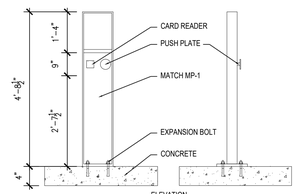
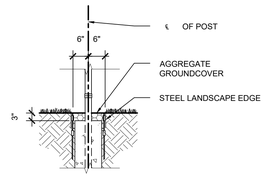
PLAN

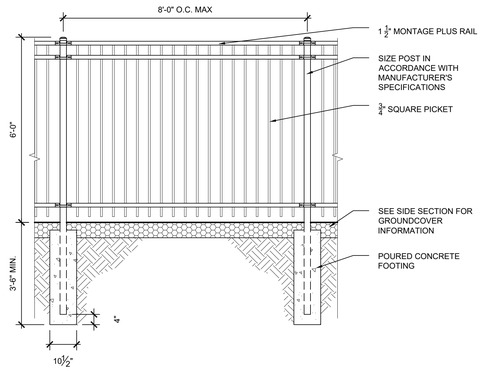



ELEVATION

## 6 / L5.0 ADA DOOR PADDLE
SCALE: 1/2" = 1'-0"




SIDE SECTION




FRONT SECTION

## 5 / L5.0 METAL ORNAMENTAL FENCE
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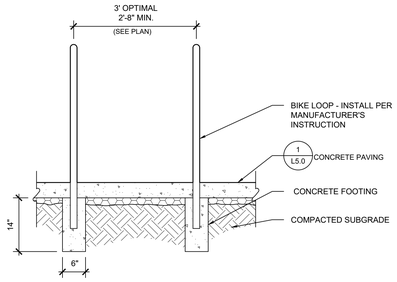
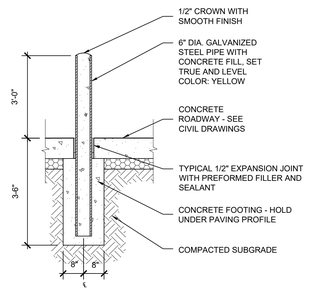



## 4 / L5.0 BIKE LOOP
SCALE: 3/4" = 1'-0"




## 3 / L5.0 BOLLARD
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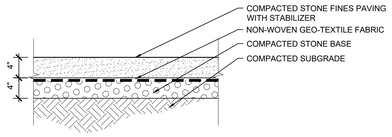


## 2 / L5.0 DECOMPOSED STONE PAVING
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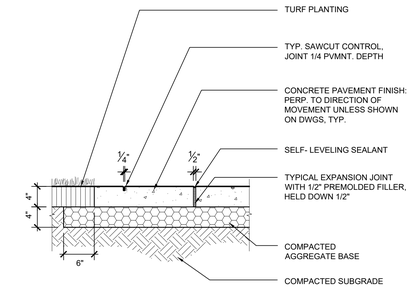


## 1 / L5.0 CONCRETE PAVING
SCALE: 1" = 1'-0"

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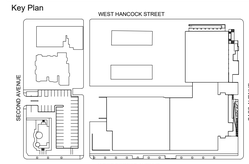
Key Plan

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Project

WSU PROJECT NO. 189-178578

Drawing Title

# SITE DETAILS

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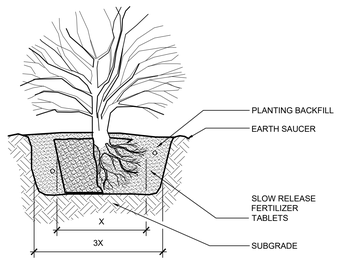
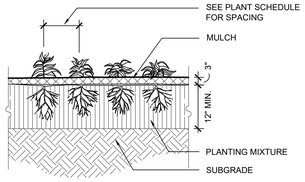
## PLANT LIST

| CODE | QTY. | MATERIAL | SIZE | SPACING |
|---|---|---|---|---|
| **PERENNIALS** | | | | |
| HCS | | HEMEROCALLIS 'CHICAGO STAR'<br>CHICAGO STAR DAYLILY | 1 GAL. | 18" O.C |
| HMT | | HEMEROCALLIS 'MARY TODD'<br>MARY TODD DAYLILY | 1 GAL. | 18" O.C |
| LC | | LYSIMACHIA CLETHROIDES<br>GOOSENECK LOOSESTRIFE | 1 GAL. | 24" O.C |
| PAL | | PEROVSKIA ATRIPLICIFOLIA 'LITTLE SPIRE'<br>LITTLE SPIRE RUSSIAN SAGE | 1 GAL. | 18" O.C |
| RR | | ROSA X 'RADTKO'<br>RADTKO DOUBLE KNOCK OUT ROSE | 1 GAL. | 36" O.C |
| RH | | RUDBECKIA HIRTA<br>BLACKEYED SUSAN | 1 GAL. | 18" O.C |
| SSM | | SALVIA X SYLVESTRIS 'MAY NIGHT'<br>MAY NIGHT SAGE | 1 GAL. | 18" O.C |
| SAF | | SEDUM 'AUTUMN FIRE'<br>AUTUMN FIRE STONCROP | 1 GAL. | 16" O.C |
| **GRASSES** | | | | |
| CA | | CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'<br>KARL FOERSTER FEATHER REED GRASS | 3 GAL. | 24" O.C |
| CP | | CAREX PENSYLVANICA<br>PENNSYLVANICA SEDGE | 3 GAL. | 10" O.C |
| MS | | MISCANTHUS SINENSIS 'GRACILLIMUS'<br>GRACILLIMUS SILVER GRASS | 3 GAL. | 18" O.C |
| PA | | PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'<br>LITTLE BUNNY DWARF FOUNTAIN GRASS | 3 GAL. | 16" O.C |
| PV | | PANICUM VIRGATUM 'SHENANDOAH'<br>SHENANDOAH SWITCH GRASS | 3 GAL. | 24" O.C |
| **SHRUBS** | | | | |
| EA | | EUONYMUS ALATUS<br>BURNING BUSH | 5 GAL OR B&B | 72" O.C |
| HV | | HAMAMELIS VIRGINIANA<br>WITCH-HAZEL | 5 GAL OR B&B | 72" O.C |
| HAA | | HYDRANGEA ARBORESCENS 'ANNABELLE'<br>ANNABELLE HYDRANGEA | 5 GAL OR B&B | 48" O.C |
| MP | | MYRICA PENSYLVANCIA<br>NORTHERN BAYBERRY | 5 GAL OR B&B | 36" O.C |
| RAG | | RHUS AROMATICA 'GRO-LOW'<br>GRO-LOW SUMAC | 5 GAL OR B&B | 36" O.C |
| RA | | RIBES ALPINUM<br>ALPINE CURRANT | 5 GAL OR B&B | 36" O.C |
| SV | | SYRINGA VULGARIS<br>COMMON PURPLE LILAC | 5 GAL OR B&B | 72" O.C |
| VD | | VIRBURNUM DENTATUM<br>ARROWWOOD VIRBURNUM | 5 GAL OR B&B | 72" O.C |
| **TREES** | | | | |
| CJ | | CERCIDIPHYLLUM JAPONICUM<br>KATSURA TREE | MULTI STEM, 3-5 STEM, 12'H B&B | SEE PLAN |
| CC | | CERCIS CANADENSIS<br>EASTERN REDBUD | MULTI STEM, 3-5 STEM, 12'H B&B | SEE PLAN |
| PP | | PARROTIA PERSICA<br>PERSIAN IRONWOOD | MULTI STEM, 3-5 STEM, 12'H B&B | SEE PLAN |
| QR | | QUERCUS RUBRA<br>RED OAK | 2.5" DBH B&B | SEE PLAN |
| SR | | SYRINGA RETICULATA<br>JAPANESE TREE LILAC | MULTI STEM, 3-5 STEM, 12'H B&B | SEE PLAN |
| TC | | TILIA CORDATA<br>LITTLE LEAF LINDEN | 2.5" DBH B&B | SEE PLAN |

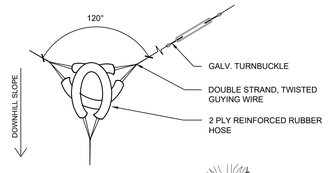



5 / L6.0 **SHRUB PLANTING**
SCALE: 1/4" = 1'-0"



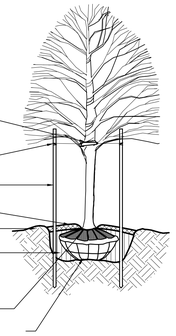

NOTES:
PLANTS TO BE SET WITH BOTTOM LEAVES PARALLEL WITH GRADE AFTER MULCH.

4 / L6.0 **GROUNDCOVER AND PERENNIAL PLANTING**
SCALE: 1/2" = 1'-0"

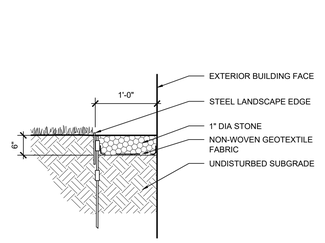



NOTES:
DO NOT CUT LEADER

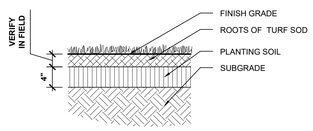
TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IN NURSERY.




7 / L6.0 **DECIDUOUS TREE WITH UPRIGHT STAKING**
SCALE: 1/4" = 1'-0"




3 / L6.0 **STONE MAINTENANCE EDGE**
SCALE: 1" = 1'-0"

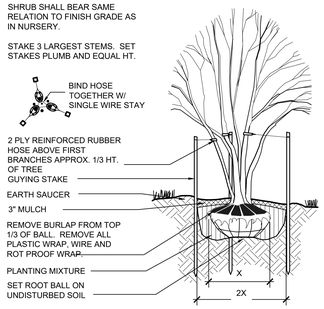



2 / L6.0 **SOD PLANTING**
SCALE: 1" = 1'-0"

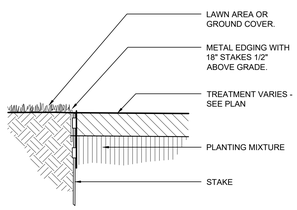
NOTES:
DO NOT CUT LEADERS.

SHRUB SHALL BEAR SAME RELATION TO FINISH GRADE AS IN NURSERY.

STAKE 3 LARGEST STEMS. SET STAKES PLUMB AND EQUAL HT.




6 / L6.0 **MULTISTEM TREE PLANTING**
SCALE: 1/4" = 1'-0"




1 / L6.0 **LANDSCAPE EDGE**
SCALE: 1" = 1'-0"

811
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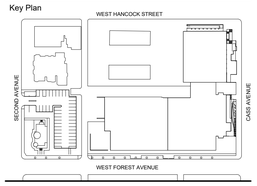
Call before you dig.

Key Plan

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Project

WSU PROJECT NO. 189-178578

Drawing Title

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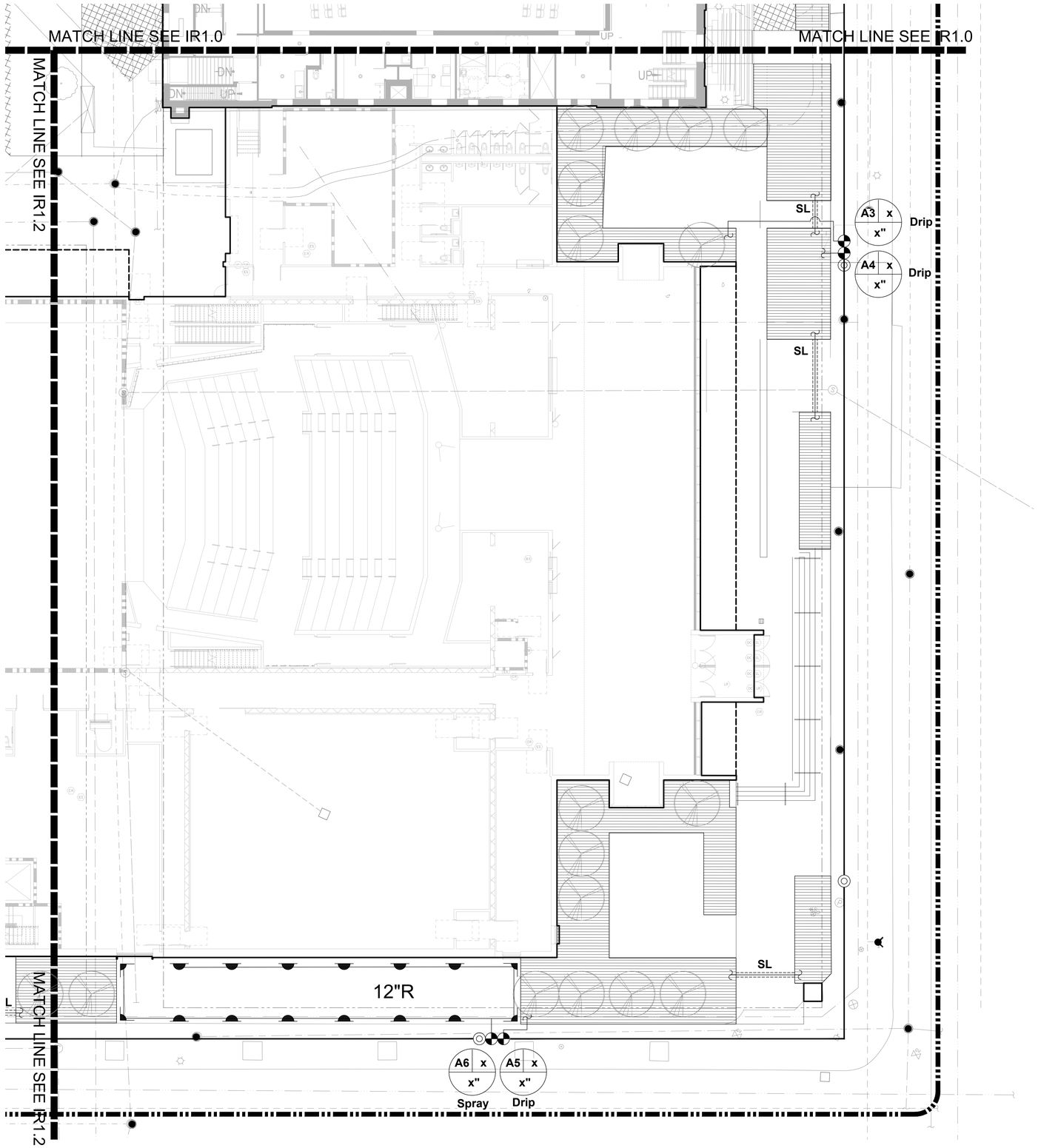


## IRRIGATION LEGEND

| | |
|---|---|
| A | CONTROLLER A (2-WIRE)<br>RAINBIRD ESP-LXD, 50 STATION BASE<br>FLOW SMART MODULE |
| B | CONTROLLER B (SOLENOID)<br>RAINBIRD ESP-LXD, 50 STATION<br>BASE WITH FLOW SMART MODULE. |
| (not shown) | RAIN SENSOR<br>RAINBIRD (ALLOW FOR 5) |
| (not shown) | FLOW METER<br>RAINBIRD WR2-RFC (ALLOW FOR 3) |
| | MANUAL VALVE |
| | QUICK COUPLING VALVE<br>RAINBIRD 5RC |
| Spray | AUTOMATIC CONTROL VALVE<br>SPRAY - RAINBIRD PEB SERIES<br>PROVIDE 2-WIRE DECODERS AT 'A'<br>VALVES AND SOLENOID AT 'B' VALVES |
| Drip | AUTOMATIC CONTROL VALVE<br>DRIP - RAINBIRD CONTROL ZONE KIT<br>W/ FILTER AND PRESSURE REGULATOR<br>PROVIDE 2-WIRE DECODERS AT 'A'<br>VALVES AND SOLENOID AT 'B' VALVES |
| | RADIUS SPRAY NOZZLE<br>RAINBIRD MPR NOZZLES<br>SERIES AS REQUIRED FOR 100%<br>HEAD-TO-HEAD COVERAGE. |
| | DRIP ZONE<br>RAINBIRD - INSTALL INDICATOR STAKE<br>AND FLUSH VALVE AT EACH DRIP ZONES |
| | RETROFIT EXISTING IRRIGATION SYSTEM<br>AROUND HILBERRY THEATER AND PARK<br>AS REQUIRED TO PROVIDE 100% COVERAGE<br>OF ALL TURF AND PLANTING AREAS NOT<br>INCORPORATED INTO NEW SYSTEM |
| Type | TIMER DESIGNATION<br>GPM<br>VALVE SIZE |
| | LATERAL PIPE, 1" SIZE |
| | MAINLINE PIPE, 1.5" SIZE |
| SL x" | SLEEVE, SIZE AS SHOWN |

SCALE: 1" = 10'-0"
0' 10' 20' 30'

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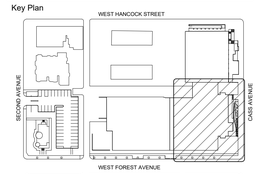
WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

WSU PROJECT NO. 189-178578

Drawing Title

# IRRIGATION PLAN - AREA B

Project Number: 3995-001-00

Drawn By: GCR

Scale: AS SHOWN

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

IR1.1

Sheet Size: 30" x 42"
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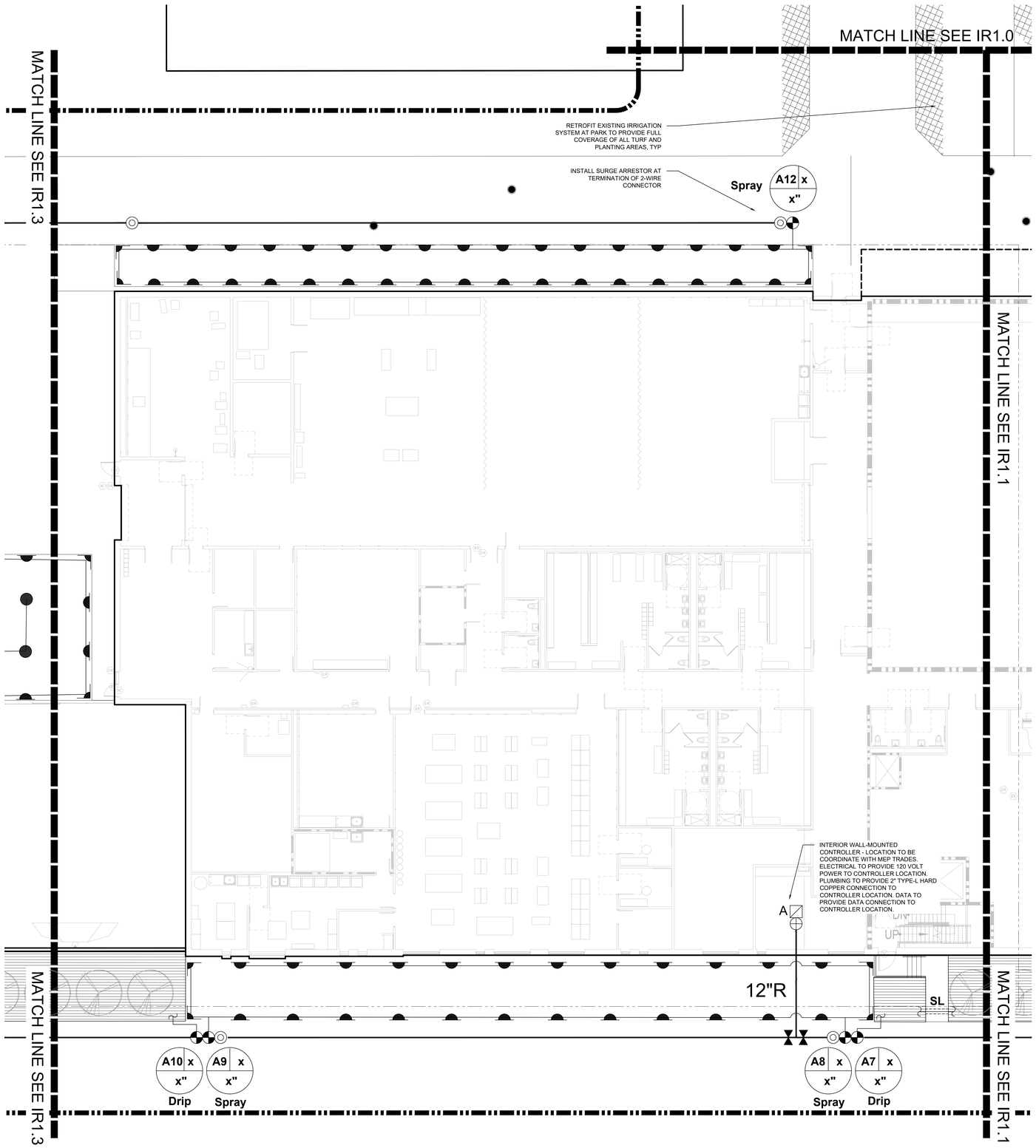


## IRRIGATION LEGEND

| | |
|---|---|
| A | CONTROLLER A (2-WIRE)<br>RAINBIRD ESP-LXD, 50 STATION BASE<br>FLOW SMART MODULE |
| B | CONTROLLER B (SOLENOID)<br>RAINBIRD ESP-LXD, 50 STATION<br>BASE WITH FLOW SMART MODULE. |
| (not shown) | RAIN SENSOR<br>RAINBIRD (ALLOW FOR 5) |
| (not shown) | FLOW METER<br>RAINBIRD WR2-RFC (ALLOW FOR 3) |
| | MANUAL VALVE |
| | QUICK COUPLING VALVE<br>RAINBIRD 5RC |
| Spray | AUTOMATIC CONTROL VALVE<br>SPRAY - RAINBIRD PEB SERIES<br>PROVIDE 2-WIRE DECODERS AT 'A'<br>VALVES AND SOLENOID AT 'B' VALVES |
| Drip | AUTOMATIC CONTROL VALVE<br>DRIP - RAINBIRD CONTROL ZONE KIT<br>W/ FILTER AND PRESSURE REGULATOR<br>PROVIDE 2-WIRE DECODERS AT 'A'<br>VALVES AND SOLENOID AT 'B' VALVES |
| | RADIUS SPRAY NOZZLE<br>RAINBIRD MPR NOZZLES<br>SERIES AS REQUIRED FOR 100%<br>HEAD-TO-HEAD COVERAGE. |
| | DRIP ZONE<br>RAINBIRD - INSTALL INDICATOR STAKE<br>AND FLUSH VALVE AT EACH DRIP ZONES |
| | RETROFIT EXISTING IRRIGATION SYSTEM<br>AROUND HILBERRY THEATER AND PARK<br>AS REQUIRED TO PROVIDE 100% COVERAGE<br>OF ALL TURF AND PLANTING AREAS NOT<br>INCORPORATED INTO NEW SYSTEM |
| Type | TIMER DESIGNATION<br>GPM<br>VALVE SIZE |
| | LATERAL PIPE, 1" SIZE |
| | MAINLINE PIPE, 1.5" SIZE |
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SCALE: 1" = 10'-0"
0' 10' 20' 30'

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| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
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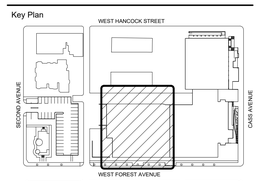
Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

WSU PROJECT NO. 189-178578

Drawing Title

# IRRIGATION PLAN - AREA C

Project Number: 3995-001-00
Drawn By: GCR
Scale: AS SHOWN
Seal:

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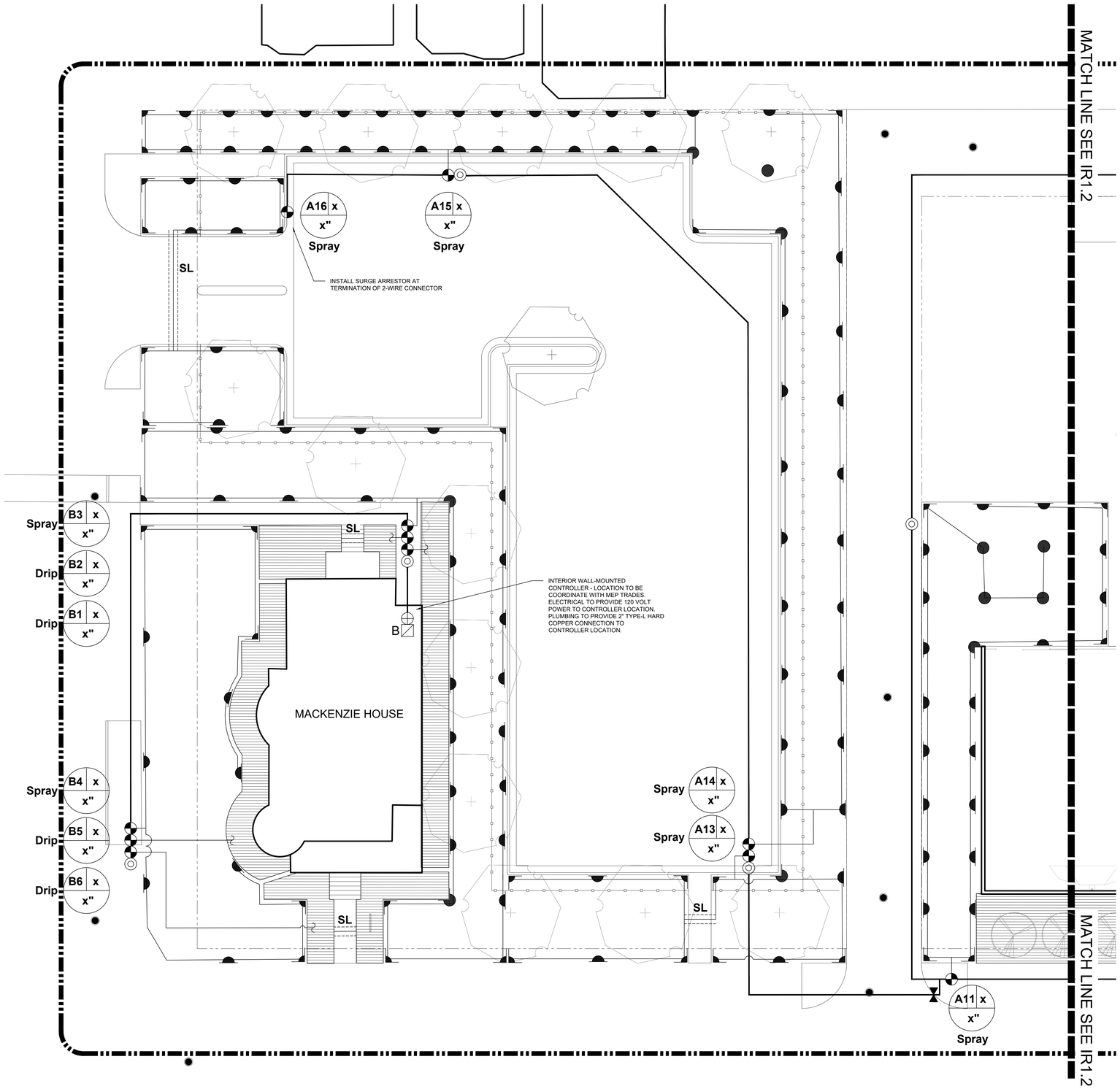
Signature:

Drawing No:

IR1.2

Sheet Size: 30" x 42"
: Template Version




## IRRIGATION LEGEND

| | |
|---|---|
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| B | CONTROLLER B (SOLENOID)<br>RAINBIRD ESP-LXD, 50 STATION<br>BASE WITH FLOW SMART MODULE. |
| (not shown) | RAIN SENSOR<br>RAINBIRD (ALLOW FOR 5) |
| (not shown) | FLOW METER<br>RAINBIRD WR2-RFC (ALLOW FOR 3) |
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| Type | TIMER DESIGNATION<br>GPM<br>VALVE SIZE |
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SCALE: 1" = 10'-0"
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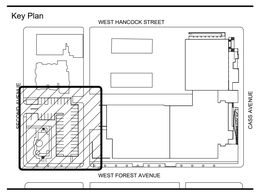
Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

WSU PROJECT NO. 189-178578

Drawing Title

# IRRIGATION PLAN - AREA D

| | |
|---|---|
| Project Number: | 3995-001-00 |
| Drawn By: | GCR |
| Scale: | AS SHOWN |

Seal:

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Signature:

Drawing No:

IR1.3

Sheet Size: 30" x 42"
- Template Version

OCCUPANT LOAD SCHEDULE PER 2015 MBC TABLE 1004.1.2 - NEW CONSTRUCTION

| ROOM NUMBER | ROOM NAME | FUNCTION OF SPACE | AREA | ALLOWABLE AREA PER PERSON | CALCULATED OCCUPANT LOAD |
|---|---|---|---|---|---|
| BASEMENT | | | | | |
| 011 | ORCH PIT | STAGES AND PLATFORMS | 697 SF | 15 | 46.47 |
| 011A | PIT ACCESS | - UNOCCUPIED - | 42 SF | | |
| 011B | SLL | - UNOCCUPIED - | 67 SF | | |
| 011C | PIT ACCESS | - UNOCCUPIED - | 218 SF | | |
| 012 | STORAGE | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 508 SF | 300 | 1.69 |
| 013 | STORAGE | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 768 SF | 300 | 2.56 |
| 014 | CORRIDOR | - UNOCCUPIED - | 730 SF | | |
| 015 | ELEV EQUIP | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 123 SF | 300 | 0.41 |
| 018 | CORRIDOR | - UNOCCUPIED - | 583 SF | | |
| 019 | FIRE PUMP ROOM | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 403 SF | 300 | 1.34 |
| 020 | ARBOR PIT | - UNOCCUPIED - | 240 SF | | |
| 056 | ELEV | - UNOCCUPIED - | 112 SF | | |
| 090 | STAIR | - UNOCCUPIED - | 211 SF | | |
| BASEMENT: 13 | | | 4,706 SF | | 52.48 |
| LEVEL ONE | | | | | |
| 110 | LOBBY SEATING | ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES & CHAIRS) | 649 SF | 15 | 43.27 |
| 110A | STUDY | ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES & CHAIRS) | 76 SF | 15 | 5.08 |
| 110B | HOUSE RIGHT CORRIDOR | - UNOCCUPIED - | 604 SF | | |
| 110C | PROSCENIUM THEATER ENTRY | - UNOCCUPIED - | 1,055 SF | | |
| 110D | STUDIO THEATER ENTRY | - UNOCCUPIED - | 201 SF | | |
| 110E | STUDY | ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES & CHAIRS) | 401 SF | 15 | 26.74 |
| 110F | LOBBY (CIRCULATION) | - UNOCCUPIED - | 2,509 SF | | |
| 120 | COATS | BUSINESS AREAS | 253 SF | 100 | 2.53 |
| 121 | TOILET | - UNOCCUPIED - | 44 SF | | |
| 122 | TOILET | - UNOCCUPIED - | 45 SF | | |
| 123 | MEN | - UNOCCUPIED - | 262 SF | | |
| 124 | WOMEN | - UNOCCUPIED - | 325 SF | | |
| 125 | MDF | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 134 SF | 300 | 0.45 |
| 127 | ELECTRICAL | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 566 SF | 300 | 1.89 |
| 128 | JANITOR | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 66 SF | 300 | 0.22 |
| 131 | CAFE | BUSINESS AREAS | 640 SF | 100 | 6.40 |
| 132 | BOX OFFICE | BUSINESS AREAS | 474 SF | 100 | 4.74 |
| 132B | MACH. | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 18 SF | 300 | 0.06 |
| 133 | LULA | - UNOCCUPIED - | 40 SF | | |
| 134A | SLL | - UNOCCUPIED - | 112 SF | | |
| 134B | SLL | - UNOCCUPIED - | 113 SF | | |
| 134C | SLL | - UNOCCUPIED - | 123 SF | | |
| 134D | SLL | - UNOCCUPIED - | 251 SF | | |
| 134E | GALL/CRTL ACCESS | - UNOCCUPIED - | 77 SF | | |
| 135 | AUDIENCE CHAMBER | ASSEMBLY WITH FIXED SEATS | 2,684 SF | | |
| 136 | STAGEHOUSE | STAGES AND PLATFORMS | 3,259 SF | 15 | 217.29 |
| 140 | PROD MGR & STAGE MGR OFFICE | BUSINESS AREAS | 531 SF | 100 | 5.31 |
| 145 | CORRIDOR | - UNOCCUPIED - | 977 SF | | |
| 150 | STUDIO THEATER | STAGES AND PLATFORMS | 3,266 SF | 15 | 217.71 |
| 150A | SLL | - UNOCCUPIED - | 44 SF | | |
| 150B | SLL | - UNOCCUPIED - | 44 SF | | |
| 150C | SLL | - UNOCCUPIED - | 311 SF | | |
| 151 | BOH STORAGE | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 1,690 SF | 300 | 5.63 |
| 153 | PIANO | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 95 SF | 300 | 0.32 |
| 154 | TOILET | - UNOCCUPIED - | 65 SF | | |
| 155 | TOILET | - UNOCCUPIED - | 65 SF | | |
| 156 | ELEV | - UNOCCUPIED - | 112 SF | | |
| 160 | CORRIDOR | - UNOCCUPIED - | 1,167 SF | | |
| 160A | CORRIDOR | - UNOCCUPIED - | 869 SF | | |
| 160B | CORRIDOR | - UNOCCUPIED - | 587 SF | | |
| 160C | CORRIDOR | - UNOCCUPIED - | 213 SF | | |
| 160D | CORRIDOR | - UNOCCUPIED - | 601 SF | | |
| 161 | PERFORMER LOUNGE | EDUCATIONAL - CLASSROOM AREA | 347 SF | 20 | 17.33 |
| 162 | WARM-UP ROOM | EDUCATIONAL - CLASSROOM AREA | 560 SF | 20 | 28.00 |
| 163 | DRESSING ROOM | EDUCATIONAL - CLASSROOM AREA | 333 SF | 20 | 16.63 |
| 163A | TOILET | - UNOCCUPIED - | 146 SF | | |
| 164 | DRESSING ROOM | EDUCATIONAL - CLASSROOM AREA | 301 SF | 20 | 15.03 |
| 164A | TOILET | - UNOCCUPIED - | 156 SF | | |
| 164B | SHOWER | - UNOCCUPIED - | 40 SF | | |
| 165 | COSTUME SHOP | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 2,529 SF | 50 | 50.58 |
| 165A | FITTING | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 100 SF | 50 | 2.00 |
| 165B | FITTING | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 100 SF | 50 | 2.00 |
| 165C | OFFICE | BUSINESS AREAS | 101 SF | 100 | 1.01 |
| 165D | OFFICE | BUSINESS AREAS | 96 SF | 100 | 0.96 |
| 165E | CRAFT ROOM | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 368 SF | 300 | 1.23 |
| 165F | DYE ROOM | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 232 SF | 300 | 0.77 |
| 166 | PROP SHOP | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 521 SF | 50 | 10.43 |
| 166A | PAINT ROOM | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 195 SF | 50 | 3.91 |
| 167 | DESIGN STUDIO | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 669 SF | 50 | 13.39 |

OCCUPANT LOAD SCHEDULE PER 2015 MBC TABLE 1004.1.2 - NEW CONSTRUCTION

| ROOM NUMBER | ROOM NAME | FUNCTION OF SPACE | AREA | ALLOWABLE AREA PER PERSON | CALCULATED OCCUPANT LOAD |
|---|---|---|---|---|---|
| 167A | LASER CUTTER | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 90 SF | 50 | 1.80 |
| 171 | PROP STAGING | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 101 SF | 300 | 0.34 |
| 172 | DRESSING ROOM | EDUCATIONAL - CLASSROOM AREA | 438 SF | 20 | 21.91 |
| 172A | TOILET | - UNOCCUPIED - | 143 SF | | |
| 172B | SHOWER | - UNOCCUPIED - | 40 SF | | |
| 173 | DRESSING ROOM | EDUCATIONAL - CLASSROOM AREA | 597 SF | 20 | 29.83 |
| 173A | TOILET | - UNOCCUPIED - | 148 SF | | |
| 173B | SHOWER | - UNOCCUPIED - | 40 SF | | |
| 174 | TOILET | - UNOCCUPIED - | 58 SF | | |
| 175 | TOILET | - UNOCCUPIED - | 58 SF | | |
| 176 | OFFICE | BUSINESS AREAS | 96 SF | 100 | 0.96 |
| 177 | SCENE PREPARATION | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 3,797 SF | 50 | 75.94 |
| 177A | SCENE SHOP | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 2,598 SF | 50 | 51.96 |
| 177B | CNC ROOM | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 231 SF | 50 | 4.63 |
| 177C | TOOL ROOM | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 201 SF | 300 | 0.67 |
| 177D | METAL SHOP | EDUCATIONAL - SHOPS AND OTHER VOCATIONAL ROOM AREAS | 998 SF | 50 | 19.97 |
| 177E | OFFICE | BUSINESS AREAS | 113 SF | 100 | 1.13 |
| 178 | CUSTODIAL | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 78 SF | 300 | 0.26 |
| 179 | ELEC | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 117 SF | 300 | 0.39 |
| 180 | IDF | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 53 SF | 300 | 0.18 |
| 181 | ELEC/SOUND SHOP/STOR | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 718 SF | 300 | 2.39 |
| 182 | OFFICE | BUSINESS AREAS | 113 SF | 100 | 1.13 |
| 183 | BREAK ROOM | BUSINESS AREAS | 108 SF | 100 | 1.08 |
| 184 | OFFICE | BUSINESS AREAS | 117 SF | 100 | 1.17 |
| 185 | LOADING | - UNOCCUPIED - | 339 SF | | |
| 190 | STAIR | - UNOCCUPIED - | 246 SF | | |
| LEVEL ONE: 85 | | | 44,052 SF | | 916.64 |
| UPPER LEVEL (ST) | | | | | |
| 249 | CONTROL ROOM (ST) | BUSINESS AREAS | 364 SF | 100 | 3.64 |
| 250 | TECH GALLERY | - UNOCCUPIED - | 1,163 SF | | |
| 251A | SLL | - UNOCCUPIED - | 115 SF | | |
| 251B | SLL | - UNOCCUPIED - | 80 SF | | |
| 252 | AUDIO RACK | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 386 SF | 300 | 1.29 |
| 253 | DIMMER | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 363 SF | 300 | 1.21 |
| 280 | CORRIDOR | - UNOCCUPIED - | 498 SF | | |
| UPPER LEVEL (ST): 7 | | | 2,970 SF | | 6.14 |
| BACK ROW (PT) | | | | | |
| 234E | GALL/CRTL ACCESS | - UNOCCUPIED - | 107 SF | | |
| 234F | CRTL ACCESS | - UNOCCUPIED - | 133 SF | | |
| 235A | TECH | - UNOCCUPIED - | 83 SF | | |
| 235B | TECH | - UNOCCUPIED - | 236 SF | | |
| BACK ROW (PT): 4 | | | 559 SF | | 0.00 |
| LEVEL TWO | | | | | |
| 249A | SLL | - UNOCCUPIED - | 80 SF | | |
| 249B | SLL | - UNOCCUPIED - | 113 SF | | |
| 251 | CORRIDOR | - UNOCCUPIED - | 498 SF | | |
| 254 | ELECTRICAL | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 705 SF | 300 | 2.35 |
| 254A | IDF | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 48 SF | 300 | 0.16 |
| 255 | ELEVATOR | - UNOCCUPIED - | 112 SF | | |
| 260 | VESTIBULE | - UNOCCUPIED - | 149 SF | | |
| 270 | MECHANICAL PENTHOUSE | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 6,555 SF | 300 | 21.85 |
| 270A | MECHANICAL PENTHOUSE | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 1,319 SF | 300 | 4.40 |
| 290 | STAIR | - UNOCCUPIED - | 246 SF | | |
| LEVEL TWO: 10 | | | 9,826 SF | | 28.76 |
| CONTROL ROOM (PT) | | | | | |
| 335 | CONTROL ROOM | BUSINESS AREAS | 693 SF | 100 | 6.93 |
| CONTROL ROOM (PT): 1 | | | 693 SF | | 6.93 |
| TENSION GRID | | | | | |
| 350 | TENSION GRID | - UNOCCUPIED - | 3,364 SF | | |
| TENSION GRID: 1 | | | 3,364 SF | | 0.00 |
| TECH GALLERY (PT) | | | | | |
| 335A | TECH | - UNOCCUPIED - | 80 SF | | |
| 335B | TECH | - UNOCCUPIED - | 83 SF | | |
| 336A | TECH GALLERY | - UNOCCUPIED - | 178 SF | | |
| 336B | TECH GALLERY | - UNOCCUPIED - | 188 SF | | |
| TECH GALLERY (PT): 4 | | | 528 SF | | 0.00 |
| CATWALK #2 (PT) | | | | | |
| 435 | FOLLOWSPOT | BUSINESS AREAS | 224 SF | 100 | 2.24 |
| CATWALK #2 (PT): 1 | | | 224 SF | | 2.24 |
| LOADING GALLERY (PT) | | | | | |
| 336A | LOADING GALLERY | - UNOCCUPIED - | 338 SF | | |
| LOADING GALLERY (PT): 1 | | | 338 SF | | 0.00 |
| GRIDIRON (THEATER) | | | | | |
| 436 | GRIDIRON | - UNOCCUPIED - | 2,887 SF | | |
| GRIDIRON (THEATER): 1 | | | 2,887 SF | | 0.00 |
| | | | 70,147 SF | | 1013.19 |

OCCUPANTS FOR FIXED SEATING IN AUDIENCE CHAMBER = 513
TOTAL OCCUPANTS = 1527

## *Plumbing Code Calculations*

Refer to MBC Chapter 29 and MPC Table 403.1 "Minimum Plumbing Fixtures" for specifics, exceptions, and footnotes.

| OCCUPANCY: ASSEMBLY - A-1 | | | OCCUPANTS: 1117 | | | (559 MALE 559 FEMALE) | |
|---|---|---|---|---|---|---|---|
| Theaters and other buildings for the performing arts and motion pictures | WATER CLOSET | | LAVATORIES | | BATHTUBS OR SHOWERS | DRINKING FOUNTAINS | OTHER |
| | MALE | FEMALE | MALE | FEMALE | | | |
| REQUIRED: | 4 | 9 | 3 | 3 | – | 2 | 1 Service Sink |

| OCCUPANCY: Business - B | | | OCCUPANTS: 406 | | | (203 MALE 203 FEMALE) | |
|---|---|---|---|---|---|---|---|
| Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses | WATER CLOSET | | LAVATORIES | | BATHTUBS OR SHOWERS | DRINKING FOUNTAINS | OTHER |
| | MALE | FEMALE | MALE | FEMALE | | | |
| REQUIRED: | 5 | 5 | 4 | 4 | – | 4 | 1 Service Sink |

| OCCUPANCY: STORAGE - S-1 / S-2 | | | OCCUPANTS: 5 | | | (3 MALE 3 FEMALE) | |
|---|---|---|---|---|---|---|---|
| Structures for the storage of goods, warehouses, storehouses and freight depots, low and moderate hazard | WATER CLOSET | | LAVATORIES | | BATHTUBS OR SHOWERS | DRINKING FOUNTAINS | OTHER |
| | MALE | FEMALE | MALE | FEMALE | | | |
| REQUIRED: | 1 | 1 | 1 | 1 | Sect. 411 of IPC | 1 | 1 Service Sink |

OCCUPANCY CLASSIFICATION/GROUP AREA SCHEDULE

| OCCUPANCY GROUP | Area |
|---|---|
| BASEMENT | |
| Assembly (A-1) | 4,678 SF |
| Storage (S-1) | 592 SF |
| Storage (S-1) | 815 SF |
| LEVEL ONE | |
| Assembly (A-1) | 25,983 SF |
| Business (B) | 23,047 SF |
| LEVEL TWO | |
| Assembly (A-1) | 6,975 SF |
| Business (B) | 8,036 SF |

APPLICABLE CODES

| | |
|---|---|
| 2015 Michigan Building Code | Effective April 20, 2017 |
| 2015 Michigan Mechanical Code | Effective April 12, 2017 |
| 2015 Michigan Plumbing Code | Effective April 20, 2015 |
| 2014 National Electrical Code & The Michigan Part 8 Electrical Rules | Effective June 18, 2015 |
| 2015 Michigan Uniform Energy Code | Effective February 8, 2016 |
| 2015 Michigan Rehabilitation Code Rules | Effective December 13, 2016 |


HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESAI / NASR Consulting Engineers Inc., 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

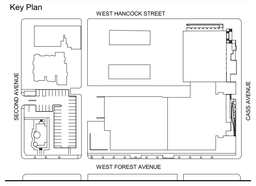
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# CODE SUMMARY - NEW CONSTRUCTION

Project Number: 3995-001-00

Drawn By: Designer

Scale: 12" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# AG.0.1


BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
: Template Version

**BUILDING CODE SUMMARY**
**APPLICABLE CODES: 2015 MICHIGAN BUILDING CODE, EFFECTIVE APRIL 20, 2017** — **DETROIT , MICHIGAN**

**SCOPE OF WORK (PROPOSED AND EXISTING):**
AN ASSEMBY BUILDING WITH TWO THEATERS AND VOCATIONAL LABS SERVING EDUCATION ABOVE GRADE 12 WITH A PARTIAL BASEMENT AND MECHANICAL PENTHOUSE

| TYPE OF SPACE: | NUMBER OF STORIES/SQUA... | |
|---|---|---|
| THEATER AND VOCATIONAL LABS | 2 STORY | 69,709.48 SF TOTAL |

**CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION**

| OCCUPANCY GROUP | CODE... | DESCRIPTION OF OCCUPANCY | ACTUAL AREA IN SQUARE FEET |
|---|---|---|---|
| ASSEMBLY - A | 303.2 | A-1; THEATER | 37,582.23 SF |
| BUSINESS - B | 304.1 | EDUCATION ABOVE GRADE 12 | 30,801.25 SF |
| STORAGE - S | 311.2 | S-1; MODERATE-HAZARD STORAGE | 1,326.00 SF |
| | | **TOTAL ACTUAL AREA:** | 69,709.48 SQUARE FEET |

NOTES:...

**CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY**

| USE/OCCUPANCY | SECTION | ARTICLE | CRITERIA/ELEMENT |
|---|---|---|---|
| STAGES, PLATFORMS AND... | 410 | 410.3.1 | STAGE CONSTRUCTION BASED ON TYPE OF CONSTRUCTION IN WHICH SUCH STAGES ARE LOCATED.... |
| STAGES, PLATFORMS AND... | 410 | 410.3.2 | TECHNICAL PRODUCTION AREAS: GALLERIES, GRIDIRONS AND CATWALKS - NO FIRE RESISTANCE RATINGS REQUIRED, AREAS NOT CONSIDERED FLOOR... |
| STAGES, PLATFORMS AND... | 410 | 410.3.4 | PROSCENIUM WALL: WHERE STAGE HEIGHT IS GREATER THAN 50 FEET, ALL PORTIONS OF THE STAGE SHALL BE COMPLETELY SEPARATED FROM THE... |
| STAGES, PLATFORMS AND... | 410 | 410.3.5 | PROSCENIUM CURTAIN: WHERE PROSCENIUM WALL IS REQUIRED TO HAVE A RATING, A FIRE CURTAIN COMPLYING WITH NFPA 80 SHALL BE PROVIDE... |
| STAGES, PLATFORMS AND... | 410 | 410.3.7 | STAGE VENTILATION SHALL BE PROVIDED FOR STAGES GREATER THAN 1,000 SF VIA ROOF VENTS (410.3.7.1) OR SMOKE CONTROL (410.3.7.2).... |
| STAGES, PLATFORMS AND... | 410 | 410.5.1 | DRESSING AND APPURTENANT ROOMS TO BE SEPARATED FROM STAGE WITH FIRE BARRIERS EQUIVALENT TO STAGE OPENING RATING OF TWO HOU... |
| STAGES, PLATFORMS AND... | 410 | 410.5.2 | DRESSING AND APPURTENANT ROOMS APPURTENANT TO STAGE TO BE SEPARATED FROM EACH BY ONE HOUR FIRE BARRIER.... |
| STAGES, PLATFORMS AND... | 410 | 410.6.3 | TECHNICAL PRODUCTION AREA TRAVEL DISTANCE TO BE NO GREATER THAN 400 FEET, SPRINKLERED |
| STAGES, PLATFORMS AND... | 410 | 410.6.3.3 | TECHNICAL PRODUCTION AREA TWO MEANS OF EGRESS OF NO GREATER THAN 100 FEET [WITH ROOF ACCESS A PERMITTED EXCEPTION] |
| STAGES, PLATFORMS AND... | 410 | 410.8 | STANDPIPE SYSTEMS SHALL BE PROVIDED PER SECTION 905 |

**CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS**
**TABLE 504.3a, i - ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE**

| OCCUPANCY CLASSIFICATION | CONST. TYPE | SEE FOOTNOTES | SUBCATEGORY | HEIGHT (IN FEET) |
|---|---|---|---|---|
| A/B | II | S | B | 75 |
| | | | TOTAL ALLOWABLE HEIGHT IN FEET\|ACTUAL HEIGHT IN FEET: | 75\| ranges from 25'-10" to 44'-10"... |

**NOTES/FOOTNOTES:**
**Per 504.3, Exception: Structures not used for habitation or storage and constructed of materials consistent with the required type of construction of the building shall be unlimited in height where of noncombustible materials and shyallnot extend more than 20 feet above the allowable height where of combustible materials. The Stage House is not used for habitation or storage and has the following protections per Section 410:**
**1. A fire resitance rating of 2 hour as it is over 50'-0" in height with proscenium protection (Sections410.3.4 & 410.3.5...**

Note:
UL = Unlimited;
NP = Not Permitted;
NS = Buildings not equipped throughout with an automatic sprinkler system;
S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1;
S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2;

a. See Chapters 4 and 5 for specific exceptions to the allowable height in this chapter.
b. See Section 903.2 for the minimum thresholds for protection by an automatic sprinkler system for specific occupancies.
c. New Group H occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.5.
d. The NS value is only for use in evaluation of existing building height in accordance with the International Existing Building Code.
e. New Group I-1 and I-3 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6. For new Group I-1 occupancies Condition 1, see Exception 1 of Section 903.2.6
f. New and existing Group I-2 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6 and Section 1103.5 of the International Fire Code...

**TABLE 504.4a, b, n - ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE**

| OCCUPANCY CLASSIFICATION | CONST. TYPE | SEE FOOTNOTES | SUBCATEGORY | NUMBER OF STORIES |
|---|---|---|---|---|
| A-1 | II | S | B | 3 |
| B | II | S | B | 4 |
| | | | TOTAL ALLOWABLE\|ACTUAL STORIES: | 3 OR 4\| 2 |

**NOTES/FOOTNOTES:**
**UL = Unlimited;**
**NP = Not Permitted;**
**NS = Buildings not equipped throughout with an automatic sprinkler system;**
**S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1;**
**S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2;**
**a. See Chapters 4 and 5 for specific exceptions to the allowable height in this chapter.**
**b. See Section 903.2 for the minimum thresholds for protection by an automatic sprinkler system for specific occupancies.**
**c. New Group H occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.5.**
**d. The NS value is only for use in evaluation of existing building height in accordance with the International Existing Building Code.**
**e. New Group I-3 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6....**

**SECTION 505 - MEZZANINES AND EQUIPMENT PLATFORMS**

| | MEZZANINE... | AREA IN SF | AREA OF ROOM... | |
|---|---|---|---|---|
| *REAR ROW OF...* | AUDIENCE... | 1337.15 | 5554.05 | 1/3 = 1851.35 |
| *REAR ROW OF...* | STUDIO THEATER | 381.66 | 3266 | 1/3 = 1088.67 |
| | NOTES: | 1. THE ENCLOSED PORTION OF A ROOM IS NOT INCLUDED IN DETERMINATION OF THE FLOOR AREA IN WHICH THE MEZZANINE IS LOCATED; THE AREA OF THE MEZZANINE IS NOT... | | |

**TABLE 506.2a, b, i - ALLOWABLE AREA FACTOR (At = NS, SI, S13R, OR SM, AS APPLICABLE) IN SQUARE FEET**

| OCCUPANCY CLASSIFICATION | CONSTRUCTI... | SEE FOOTNOTES | SUBCATEGORY | AREA IN SQUARE FEET (At)... | AREA IN SQUARE FEET (NS)... |
|---|---|---|---|---|---|
| A-1 | II | SM | I | 25,500 | 8,500 |
| B | II | SM | I | 69,000 | 23,000 |

**NOTES/FOOTNOTES:**
**NS = Buildings not equipped throughout with an automatic sprinkler system;**
**S1 = Buildings a maximum of one story above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1;**
**SM = Buildings two or more stories above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1;**
**S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2;**
**a. See Chapters 4 and 5 for specific exceptions to the allowable height in this chapter.**
**b. See Section 903.2 for the minimum thresholds for protection by an automatic sprinkler system for specific occupancies.**
**c. New Group H occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.5.**
**d. The NS value is only for use in evaluation of existing building height in accordance with the International Existing Building Code.**
**e. New Group I-3 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6.**
**f. New and existing Group I-2 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6 and Section 1103.5 of the International Fire Code.**
**g. For new Group I-4 occupancies, see Exceptions 2 and 3 of Section 903.2.6....**

**CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS PER FLOOR (SEPARATED OCCUPANCIES, PER 508.4)**

| TABLE | | | ALLOWABLE AREA INCREASE (S.F.) | | | PLAN | RATIO | FLOOR... |
|---|---|---|---|---|---|---|---|---|
| 506.2 - FACTORED BUILDING AREA PER OCCUPANCY/CONST. | | | 506.3.3 | **TABLE 506.2** | 506.2.4 | | 508.4.2 | |
| OCCUPANCY CLASSIFICATION | CONST. TYPE | ALLOWABLE AREA (At) SF,... | FRONTAGE INCREASE (IF)1 (PERCENTAGE) | NON-SPRINKLERED TABULAR AREA4 | ALLOWABLE AREA (Aa)2b SF | ACTUAL AREA [Aact] | ACT. AREA[Aact] / ALLOW. AREA [Aa] | |
| A-1 | II | 25,500 | 0.66 | 8,500 | 31,076 | 26,118 | 0.84 | Level 1 |
| B | II | 69,000 | 0.66 | 23,000 | 84,088 | 22,896 | 0.27 | Level 1 |
| | | | | ALLOWABLE AREA PER FLOOR SUMMATION OF RATIOS3: | | | 1.11 | < 1.0 |
| A-1 | II | 25,500 | 0.66 | 8,500 | 31,076 | 2,655 | 0.09 | Level 2 |
| B | II | 69,000 | 0.66 | 23,000 | 84,088 | 7,905 | 0.09 | Level 2 |
| | | | | ALLOWABLE AREA PER FLOOR SUMMATION OF RATIOS3: | | | 0.18 | < 1.0 |

**NOTES/FOOTNOTES:**
**Propose the following alternate means to allow Level 1 Ratio as shown above to be acceptable:**
**1. Occupancy separation between A-1 and B occupancies required to be 1 hour in sprinklerd buildings per Table 508.4; 2 hour fire barrier separation is provided.**
**2. Cumulative Ratios of Actual to Allowable for Level 1 & Level 2 combined is 1.29 < 2...**

***Aa = Allowable area (square feet).***
***At = Tabular allowable area factor (NS, S13R or SM value, as applicable) in accordance with Table 506.2.***
***NS = Tabular allowable area factor in accordance with Table 506.2 for a nonsprinklered building (regardless of whether the building is sprinklered).***
***If = Area factor increase due to frontage (percent) as calculated in accordance with Section 506.3....***

(1) SECTION 506.3.3: FRONTAGE INCREASE FORMULA: If = [F/P - 0.25]W/30, WHERE F IS 20 FEET MINIMUM OPEN OF P (AND P IS PERIMETER OF ENTIRE BUILDING)
(2a) SECTION 506.2.3: ALLOWABLE AREA PER GROUP OCCUPANCY: Aa = [At +(NS × If)] x Sa (EQUATION 5-2, WHERE NS IS TABULAR AREA OF NON-SPRINKLERED GROUP OCCUPANCY PER TABLE 506.2, and Sa not to exceed 3)
(2b) SECTION 506.2.4: ALLOWABLE AREA PER GROUP OCCUPANCY: Aa = [At +(NS × If)] (EQUATION 5-3, WHERE NS IS TABULAR AREA OF NON-SPRINKLERED GROUP OCCUPANCY PER TABLE 506.2a)
(3) SECTION 508.4.2: ALLOWABLE AREA PER FLOOR FORMULA: A1act/A1a + A2act/A2a + A#act/A#a < 1.0 -

**CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS [TABLE 509 - INCIDENTAL USES]**

| ROOM OR AREA | SEPARATION AND/OR PROTECTION |
|---|---|
| BOILER/ROOM WITH EQUIPMENT/UNIT EXCEEDING 15 PSI AND 10 HORSEPOWER | AUTO SPRINKLER SYSTEMa |
| PAINT SHOP, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F | ... |

**CHAPTER 6: TYPES OF CONSTRUCTION**
**TABLE 601: FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)**

| TABLE | CONST.... | SUBCATEGORY | REQUIRED RATING... | PROVIDED | |
|---|---|---|---|---|---|
| PRIMARY STRUCTURAL FRAMEf | II | B | 0 | 0 | |
| BEARING WALLS... | II | B | 0 | 0 | |
| BEARING WALLS... | II | B | 0 | 0 | |
| NON-BEARING EXTERIOR WALLS -... | SEE TABLE 602 | | | | |
| NONBEARING WALLS AND PARTITIONS... | II | B | 0 | 0 | 0 provided unless rating is required by another section of the Code. See Stages (410.3.4), Appurtenatnt Rooms... |
| FLOOR CONSTRUCTION AND ASSOCIATED... | II | B | 0 | 0 | |
| ROOF CONSTRUCTION AND ASSOCIATED... | II | B | 0c | 0 | |

**FOOTNOTES:**
***a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.***
***b.Except in Group F-1, H, M, and S-1 occupancies, fire protection of primary structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.***
***c. In all occupancies, heavy timber shall be allowed where a 1-hour or less fire-resistance rating is required.***
***d. Not less than the fire-resistance rating required by other sections of this code....***

**TABLE 602: FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCEa, d, g**

| FIRE SEPARATION... | CONST. TYPE | SUBCATEGORY | | | OCCUPANCY... |
|---|---|---|---|---|---|
| X < 5b | II | B | | | 1 |
| 10 < X < 30 | II | B | | | 0 |
| X > 30 | II | B | | | 0 |

**FOOTNOTES:**
***a. Load-bearing exterior walls shal also comply with the fire-resistance rating requirements of Table 601.***
***b. See Section 706.1 for party walls.***
***d. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located.***
***g. Where Table 705.8 permits nonbearing exterior walls wiht unlimited area of unprotected openings, the required fire-resistance rating for the exteiror wall is 0.***

**CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES**
**TABLE 705.8 - MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION**

| | | | | | | |
|---|---|---|---|---|---|---|
| FIRE SEPARATION DISTANCE IN FEET: | 0 | TO LESS THAN | 3 | NORTH SIDE 1: | NP | SF |
| FIRE SEPARATION DISTANCE IN FEET: | 25 | TO LESS THAN | 30 | NORTH SIDE 2: | NL | SF |
| FIRE SEPARATION DISTANCE IN FEET: | 30 | OR GREATER | | EAST SIDE: | NL | SF |
| FIRE SEPARATION DISTANCE IN FEET: | 30 | OR GREATER | | SOUTH SIDE: | NL | SF |
| FIRE SEPARATION DISTANCE IN FEET: | 30 | OR GREATER | | WEST SIDE 1: | NL | SF |
| FIRE SEPARATION DISTANCE IN FEET: | 30 | OR GREATER | | WEST SIDE 2: | NL | SF |

| ASSEMBLY | REFERENCE/... | APPLICABLE | RATING | NOTES |
|---|---|---|---|---|
| EXTERIOR WALLS... | 705.2 | NO | | |
| PARTY WALL | 706.1.1 | NO | | |
| FIRE WALL | 706.4 | YES | 2 | BETWEEN EXISTING BUILDING AND NEW CONSTRUCTION |
| FIRE BARRIER | 707/707.3.10 | YES | 1 or 2 | SEE NOTES IN TABLE 601 |
| FIRE PARTITION | 708 | NO | | |
| SMOKE BARRIER | 709 | YES | SMOKE | AT BOILER ROOM - MECH PENTHOUSE (ROOM 270A) |
| SMOKE PARTITION | 710 | NO | | |
| SMOKE TIGHT CON. | 509.4.2 | NO | | |
| HORIZONTAL | 711 | YES | | AT LID/CEILING OF ELECTRICAL ROOM (ROOM 254) |
| VERTICAL OPENINGS | 712 | NO | | |
| SHAFT ENCLOSURE | 713 | YES | 2 | STAIRS, ELEVATOR, LULA ELEVATOR |

**CHAPTER 8: INTERIOR FINISHES**
**TABLE 803.11 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCYk**

| | SPRINKLEREDl | | | NONSPRINKLERED | | |
|---|---|---|---|---|---|---|
| GROUP | EXIT... | CORRIDORS/... | ROOMS/EN... | EXIT... | CORRIDORS/... | ROOMS/... |
| A-1 | B | B | C | A | Ad | Be |
| B | B | C | C | A | B | C |
| S-1 | C | C | C | B | B | C |

NOTES :
**FOOTNOTES:**
***a. Class C interior finish materials shall be permitted for wainscotting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over furring strips applied to a noncombustible base and fireblocked as required by Section 803.13.1.***
***b. In other than Group I-3 occupancies in buildings less than three stories above grade plane, Class B interior finish for nonsprinklered buildings and Class C interior finish for sprinklered buildings shall be permitted in interior exit stairways and ramps.***
***c. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the...***

**CHAPTER 9: FIRE PROTECTION SYSTEMS**

| SYSTEM | REFERENCE | APPLICABLE | NOTES/DESCRIPTION |
|---|---|---|---|
| AUTO SPRINKLER | 903.3.1 | YES | NFPA-13 |
| ALT. AUTO FIRE-EXTINGUISHING | 904 | NO | |
| STANDPIPES | 905 | YES | CLASS III AT STAGE (905.3.4) |
| PORTABLE FIRE EXTINGUISHERS | 906 | YES | [CLASS-A/-B/-C/-D] [NA] |
| FIRE ALARM AND DETECTION | 907 | YES | |
| EMERGENCY ALARM (H OCCUPANCY) | 908 | NO | |
| SMOKE CONTROL | 909 | NO | |
| SMOKE AND HEAT REMOVAL | 910 | NO | |
| FIRE COMMAND | 911 | NO | |
| FIRE DEPARTMENT CONNECTIONS | 912 | YES | AT FOREST AVENUE ENTRANCE |
| FIRE PUMPS | 913 | YES | |
| EMERGENCY RESPONDER SAFETY... | 914 | YES | |
| EMERGENCY RESPONDER RADIO... | 915 | NO | |

**CHAPTER 10: MEANS OF EGRESS**
**TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT**

| FUNCTION OF SPACE | FLOOR AREA IN SQUARE FEETa... | AREA | / | FACTOR | OCCUPANT LOAD |
|---|---|---|---|---|---|
| ACCESSORY STORAGE AREAS/... | 300 GROSS | 16,569 | / | 300 | 55.23 |
| ASSEMBLY - WITH FIXED SEATS | PER 1004.4:... | N/A | / | N/A | 513 |
| ASSEMBLY WITHOUT FIXED SEATS: UNCONCENTRATED... | 15 NET | 1,126 | / | 15 | 75.07 |
| STAGES & PLATFORMS | 15 NET | 7,222 | / | 15 | 481.47 |
| BUSINESS AREAS | 100 GROSS | 3,924 | / | 100 | 39.24 |
| *EDUCATIONAL:* | *SEE BELOW* | | *SEE BELOW* | | *SEE BELOW* |
| CLASSROOM AREA | 20 NET | 2,575 | / | 20 | 128.75 |
| SHOPS AND OTHER VOCATIONAL... | 50 NET | 11,829 | / | 50 | 236.58 |

TOTAL OCCUPANT COUNT: SEE TABLE...

**REQUIRED CAPACITY BASED ON OCCUPANT LOAD - SECTION 1005.3**

| OCCUPANCY/COMPONENT | STAIRWAYS | | OTHER EGRESS COMPONENTS | | EGRESS WIDTH (IN INCHES) | |
|---|---|---|---|---|---|---|
| | FACTOR | LOAD | FACTOR | LOAD | REQUIRED | PROVIDED |
| STAIRWAY a | 0.2 | 95 | N/A | N/A | 19.00 | 139 |
| EXIT DOORSa | N/A | N/A | 0.15 | 0.00 | 0.00 | 398 |
| CORRIDORSa | N/A | N/A | 0.15 | 1525.69 | 228.85 | SEE PLANS |

*NOTES:...*

**TABLE 1017.2 - EXIT ACCESS TRAVEL DISTANCEa**

| OCCUPANCY | WITH SPRINKLER SYSTEM... | | | | | |
|---|---|---|---|---|---|---|
| A/S-1 | 250b | travel... | 75 | common path | 20 | dead end |
| S-1 | 250b | | 100 | | 50 | |
| B | 300C | | 100 | | 50 | |

FOOTNOTES:
b. Equipped throughout with NFPA-13 or NFPA-13R system
c. Equipped throughout with NFPA-13 system

**CHAPTER 10 - EXIT COMPONENTS**

| ITEM | REFERENCE | APPLICABLE | RATING (HR) | NOTES |
|---|---|---|---|---|
| EXIT ACCESS STAIRS AND RAMPS | 1019 | YES | 0 | PROVIDED AT ORCHESTRA PIT |
| CORRIDORS | 1020 | YES | 0 | NO RATING REQUIRED WITH SPRINKLER SYSTEM PER TABLE 1020.1 |
| INTERIOR EXIT RAMPS/STAIRWAYS | 1023 | YES | 2 | PROVIDED AT STAIR |
| EXIT PASSAGEWAYS | 1024 | NO | | |
| HORIZONTAL EXITS | 1026 | NO | | |
| EXTERIOR EXIT RAMPS/STAIRWAYS | 1027 | NO | | |
| ASSEMBLY EGRESS COMPONENTS | 1029 | YES | 0 | PROVIDED AT AUDIENCE CHAMBER, DESIGNED PER 1029.6.1 WITHOUT SMOKED PROTECTION |

**CHAPTER 15: ROOF ASSEMBLIES AND ROOFTOP STRUCTURES - SECTION 1510 ROOFTOP STRUCTURES**

| ITEM | REFERENCE | APPLICABLE | RATING | NOTES |
|---|---|---|---|---|
| PENTHOUSES | 1510.2 | YES | 0 | |
| TANKS | 1510.3 | NO | | |
| COOLING TOWERS | 1510.4 | NO | | |
| TOWERS/SPIRES/... | 1510.5 | NO | | |
| MECHANICAL EQUIPMENT SCREENS | 1510.6 | YES | 0 | |
| PHOTOVOLTAIC PANELS AND MODULES | 1510.7 | NO | | |
| OTHER ROOFTOP STRUCTURES | 1510.8 | NO | | |

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| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

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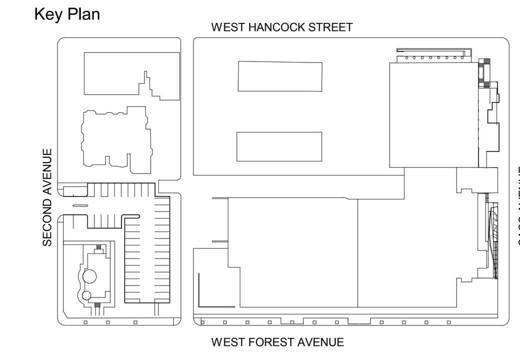
Key Plan

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Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
CODE SUMMARY - NEW CONSTRUCTION

Project Number: 3995-001-00
Drawn By: Designer
Scale:
Seal:

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Drawing No:
AG.0.1.1

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## LIFE SAFETY PLAN LEGEND

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|---|---|
| FIRE DEPARTMENT CONNECTION | FDC |
| FIRE EXTINGUISHER CABINET | FEC |
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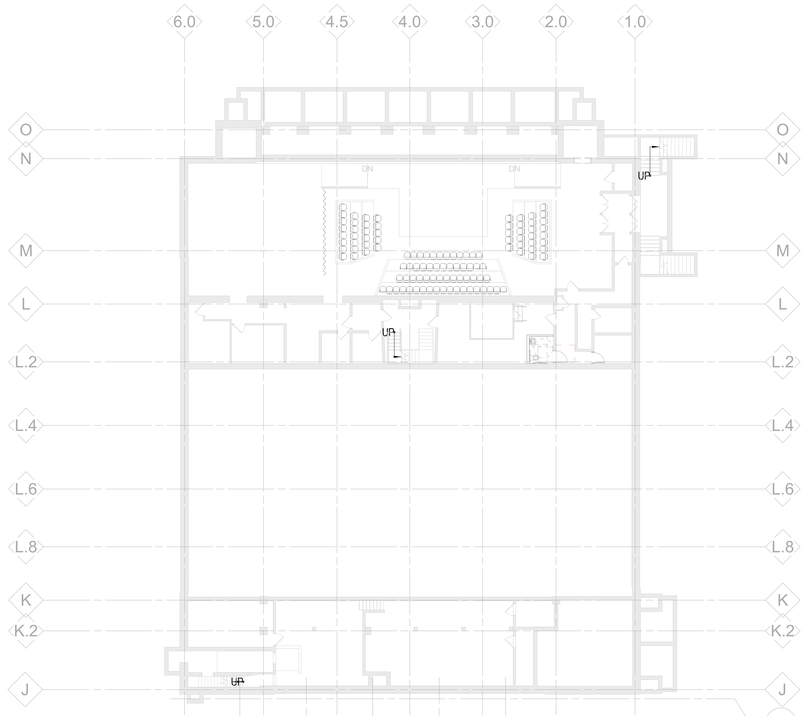
| REFER TO A1.0 SERIES FOR WALL FIRE RATINGS | |
| TRAVEL DISTANCE FROM THE MOST REMOTE POINT TO THE CLOSEST EXIT | XXX'-X" |
| EXIT SYMBOL | |
| EGRESS WIDTH, LOAD & CAPACITY | EW=36" 225 / <300> |



NORTH

## LOWER LEVEL - LIFE SAFETY

1/16" = 1'-0"

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Drawing Title

# LOWER LEVEL LIFE SAFETY PLAN

Project Number: 3995-001-00

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## LIFE SAFETY PLAN LEGEND

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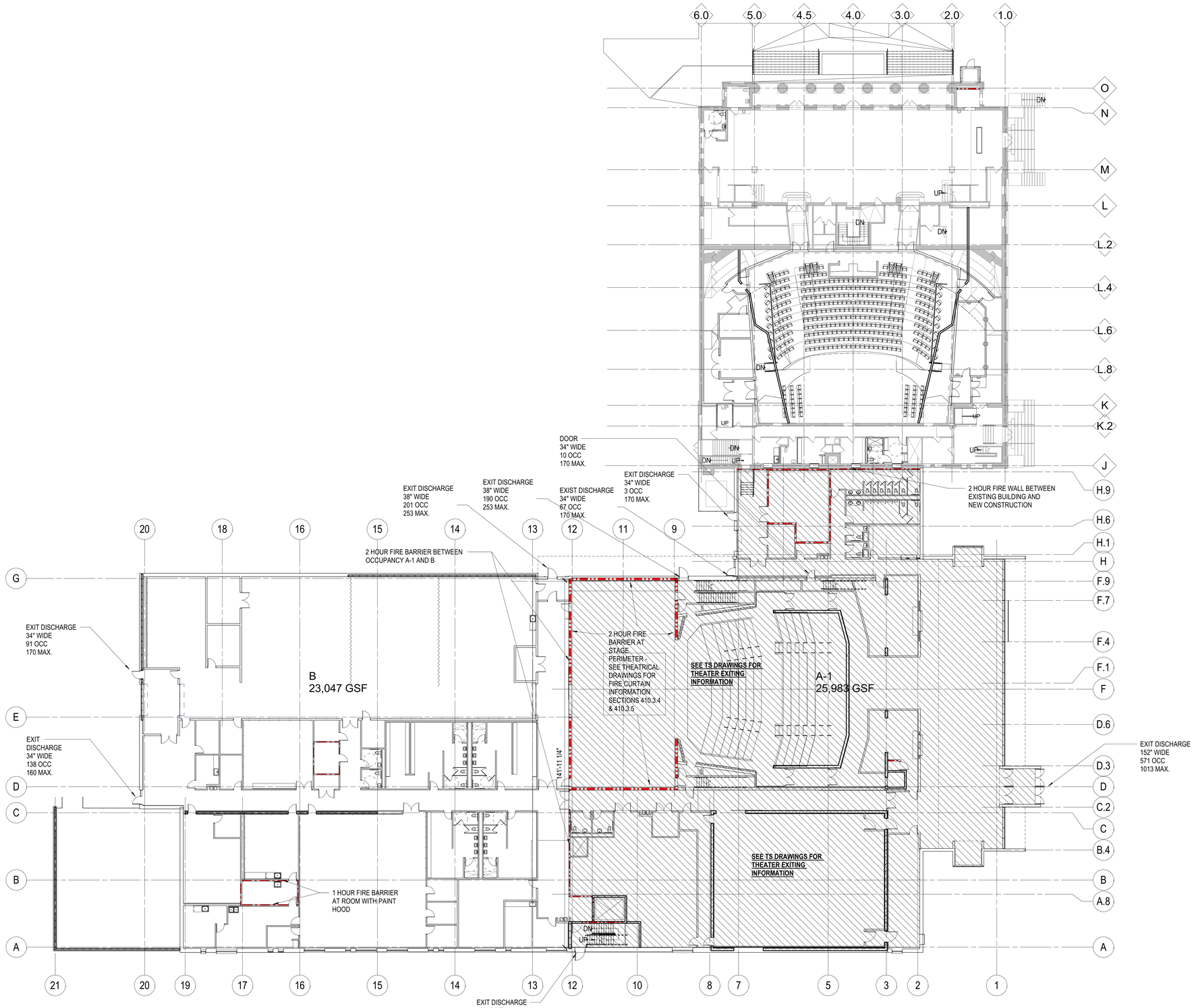
| EXIT SYMBOL | |
| EGRESS WIDTH, LOAD & CAPACITY | EW=36" 225 / <300> |




NORTH

## LEVEL ONE - LIFE SAFETY

1/16" = 1'-0"

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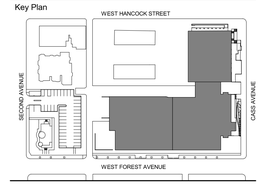


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# LEVEL ONE LIFE SAFETY PLAN

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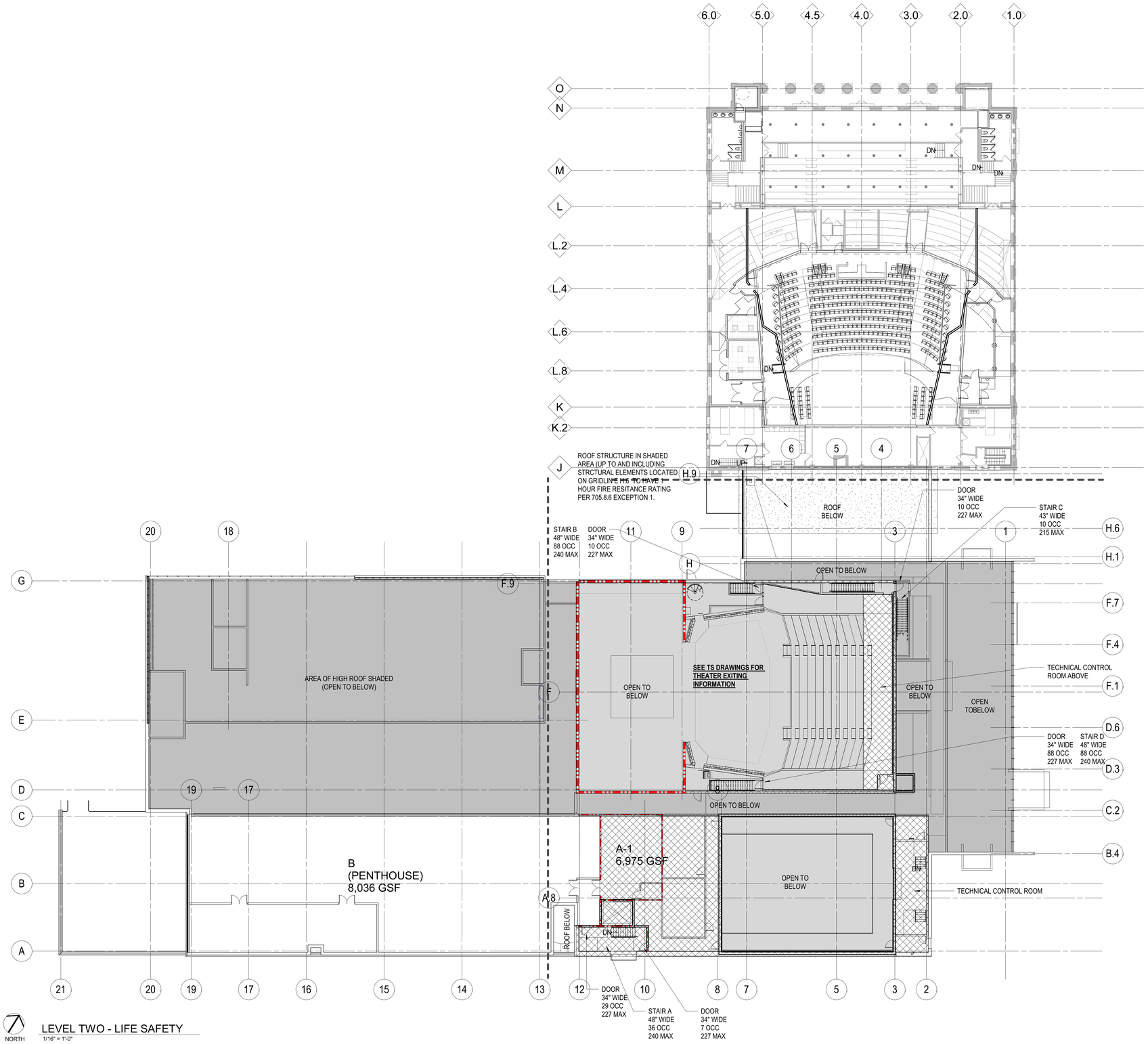


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LEVEL TWO - LIFE SAFETY
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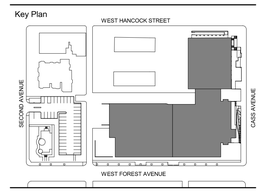


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Drawing Title
LEVEL TWO LIFE SAFETY PLAN

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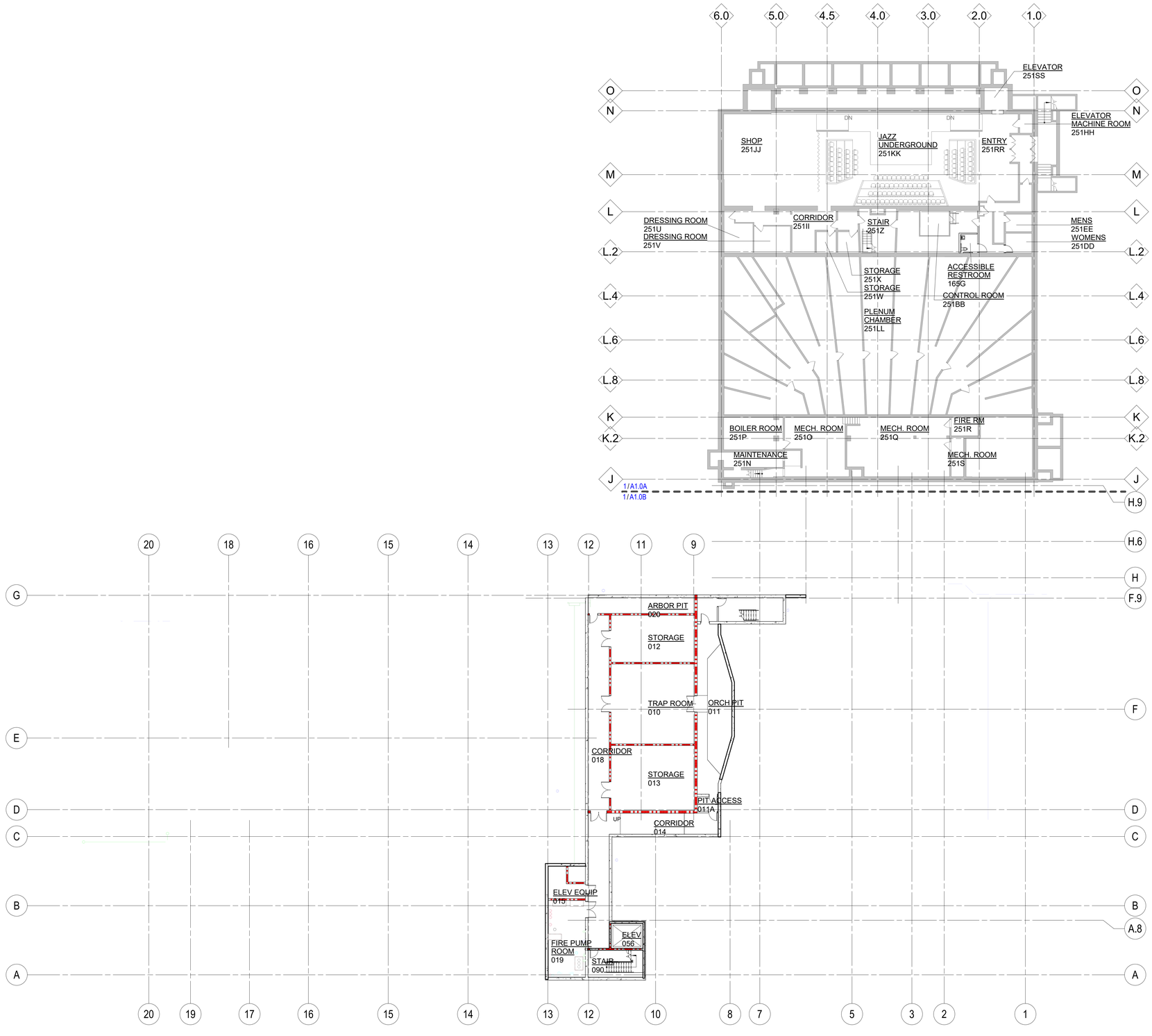


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## LOWER LEVEL - COMPOSITE PLAN

1/16" = 1'-0"

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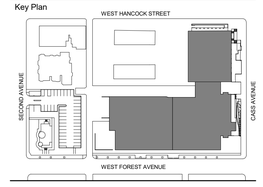


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Project

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Drawing Title

# COMPOSITE LOWER LEVEL PLAN

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

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Signature:

Drawing No:

# A0.0

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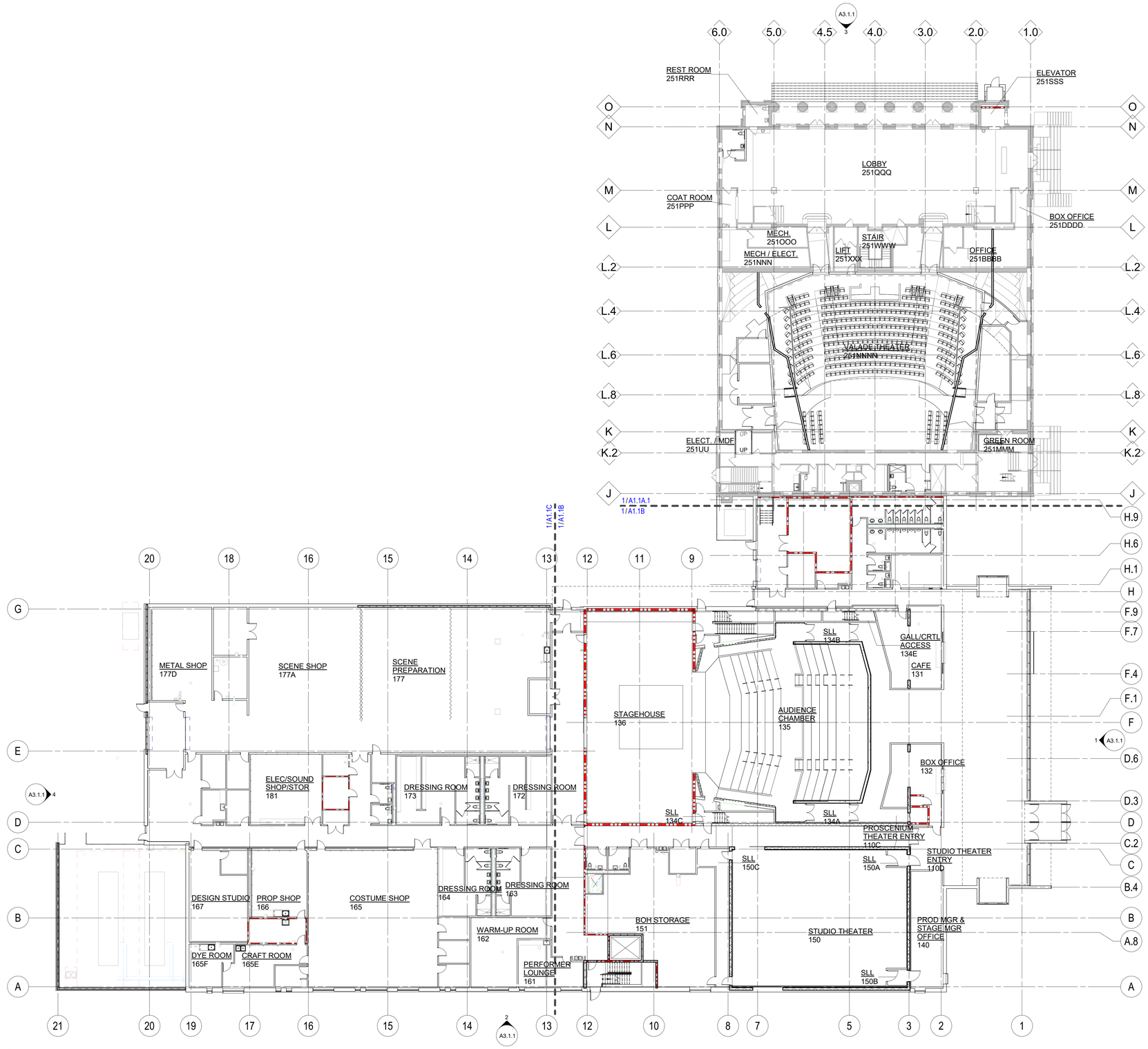


LEVEL ONE - COMPOSITE PLAN
1/16" = 1'-0"

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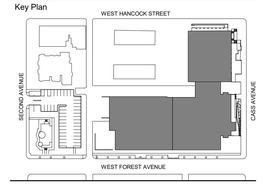


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Project

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Drawing Title

## COMPOSITE LEVEL ONE PLAN

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Seal:

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Signature:

Drawing No:

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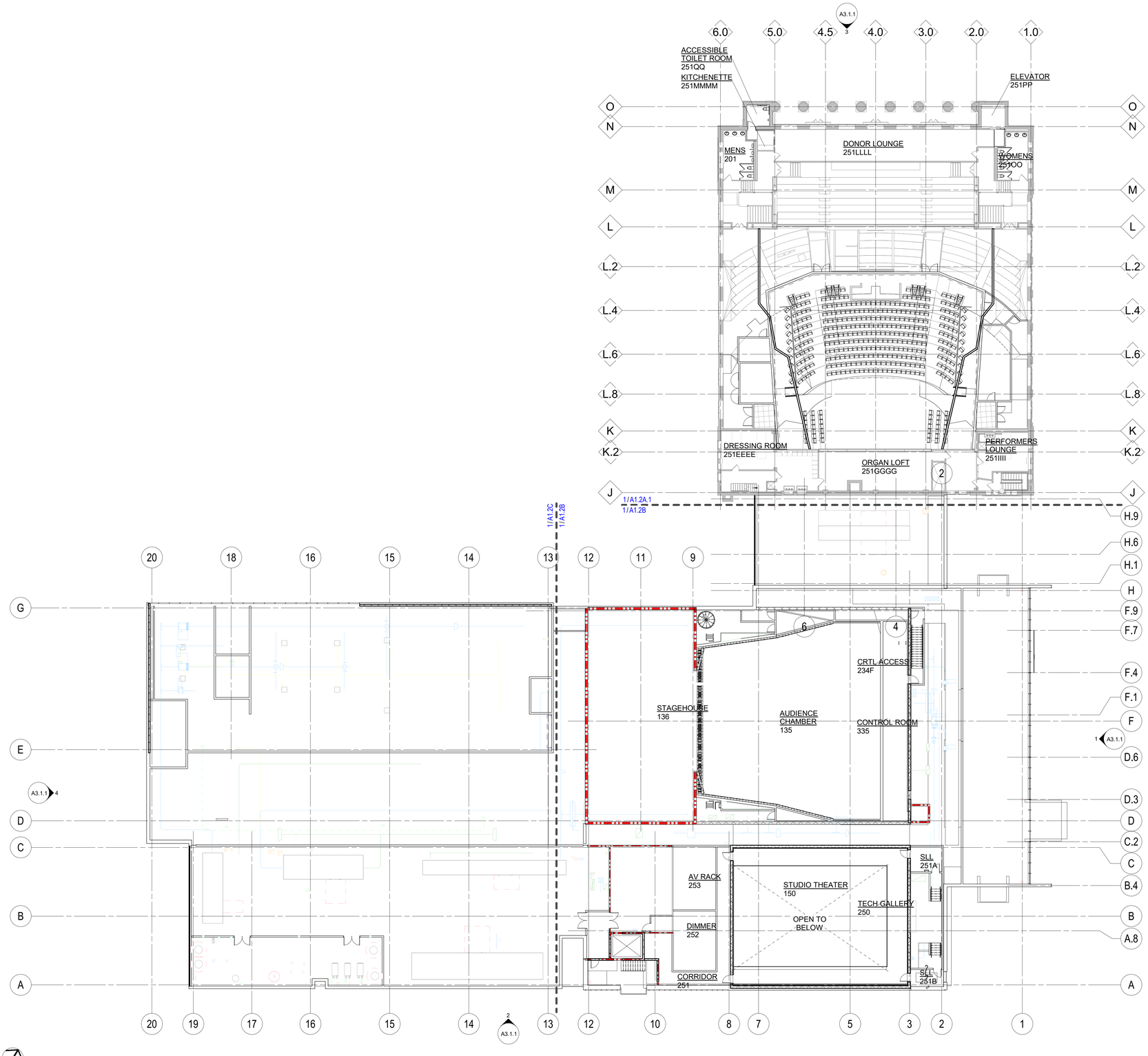


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LEVEL TWO - COMPOSITE PLAN
1/16" = 1'-0"

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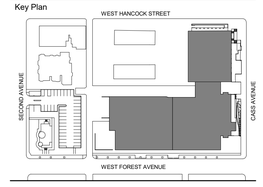
DETROIT, MI

Key Plan

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Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
COMPOSITE LEVEL TWO PLAN

Project Number: 3995-001-00

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Scale: As indicated

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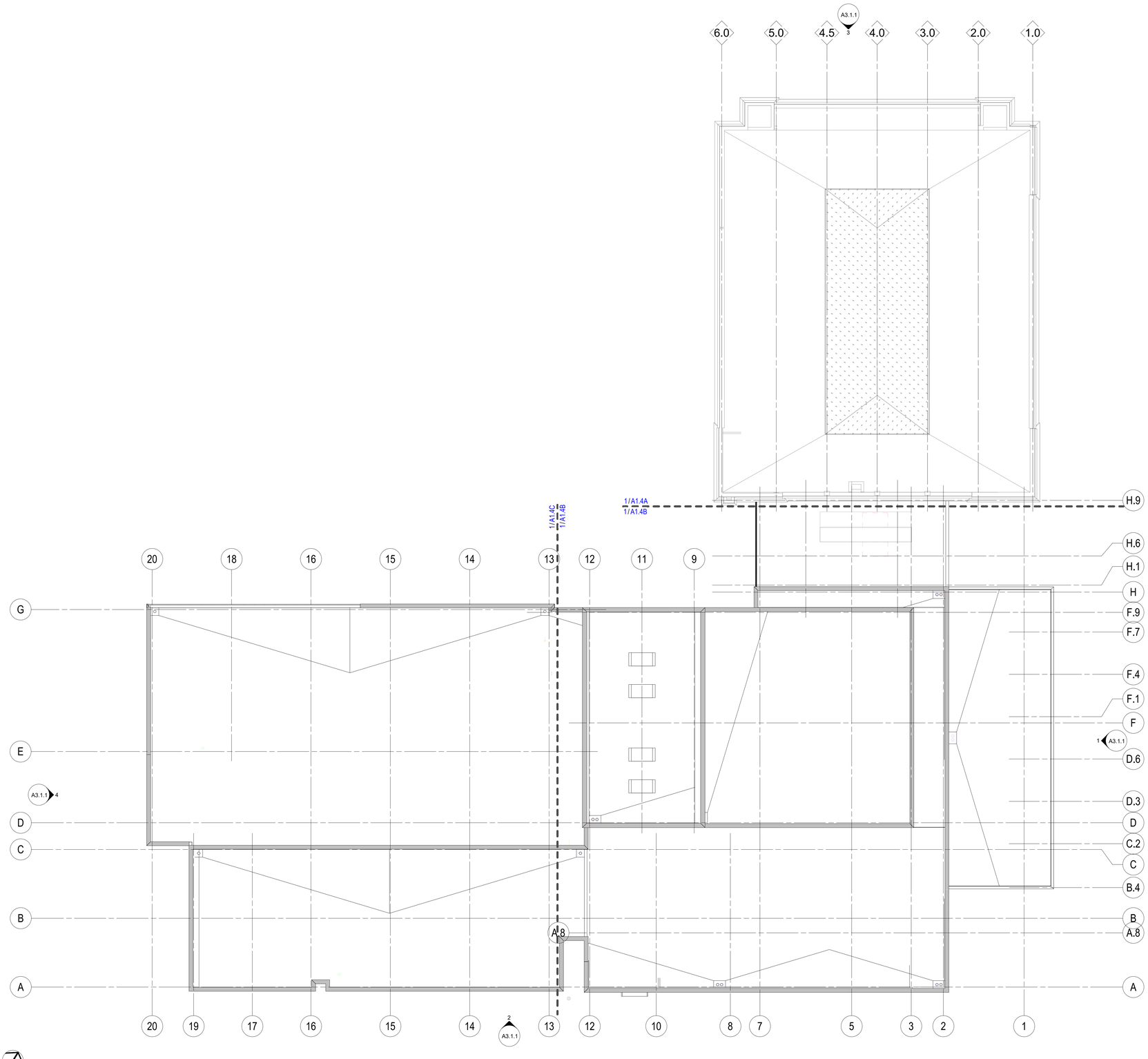


NORTH

## ROOF - COMPOSITE PLAN

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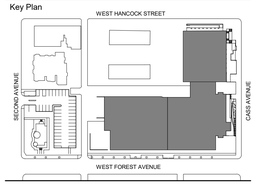
DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# COMPOSITE ROOF PLAN

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

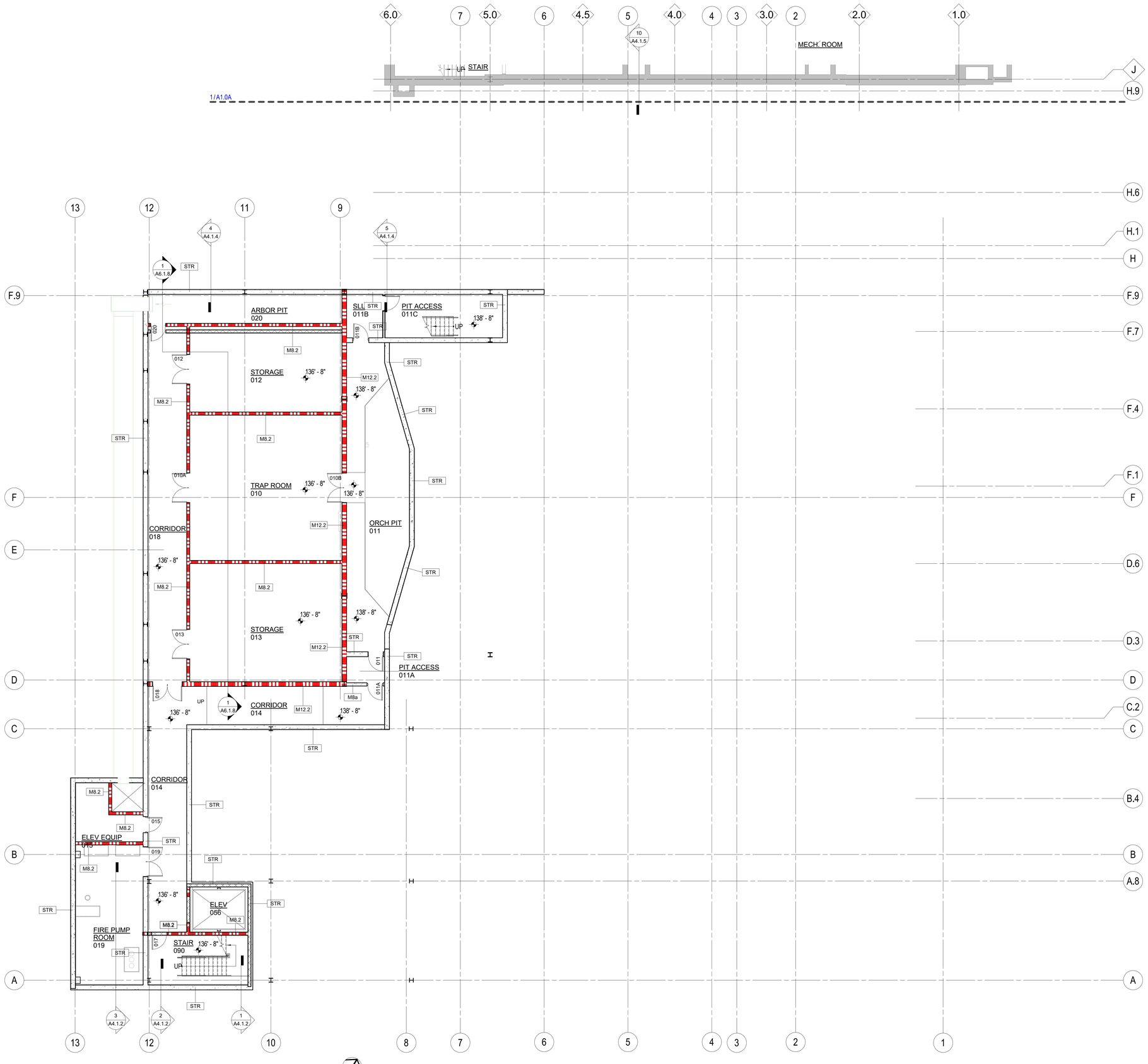
Signature:

Drawing No:

# A0.3

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




NORTH

LOWER LEVEL - SECTOR B
1/8" = 1'-0"

## FLOOR PLAN LEGEND

- AREA OF WORK
- NEW PARTITION WALL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL

## FLOOR PLAN NOTES

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV
2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION
3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF MASONRY UNO
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| PLAN KEYNOTES | |
|---|---|
| Number | Note |

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


| | |
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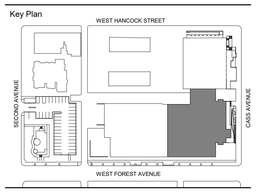
DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LOWER LEVEL PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

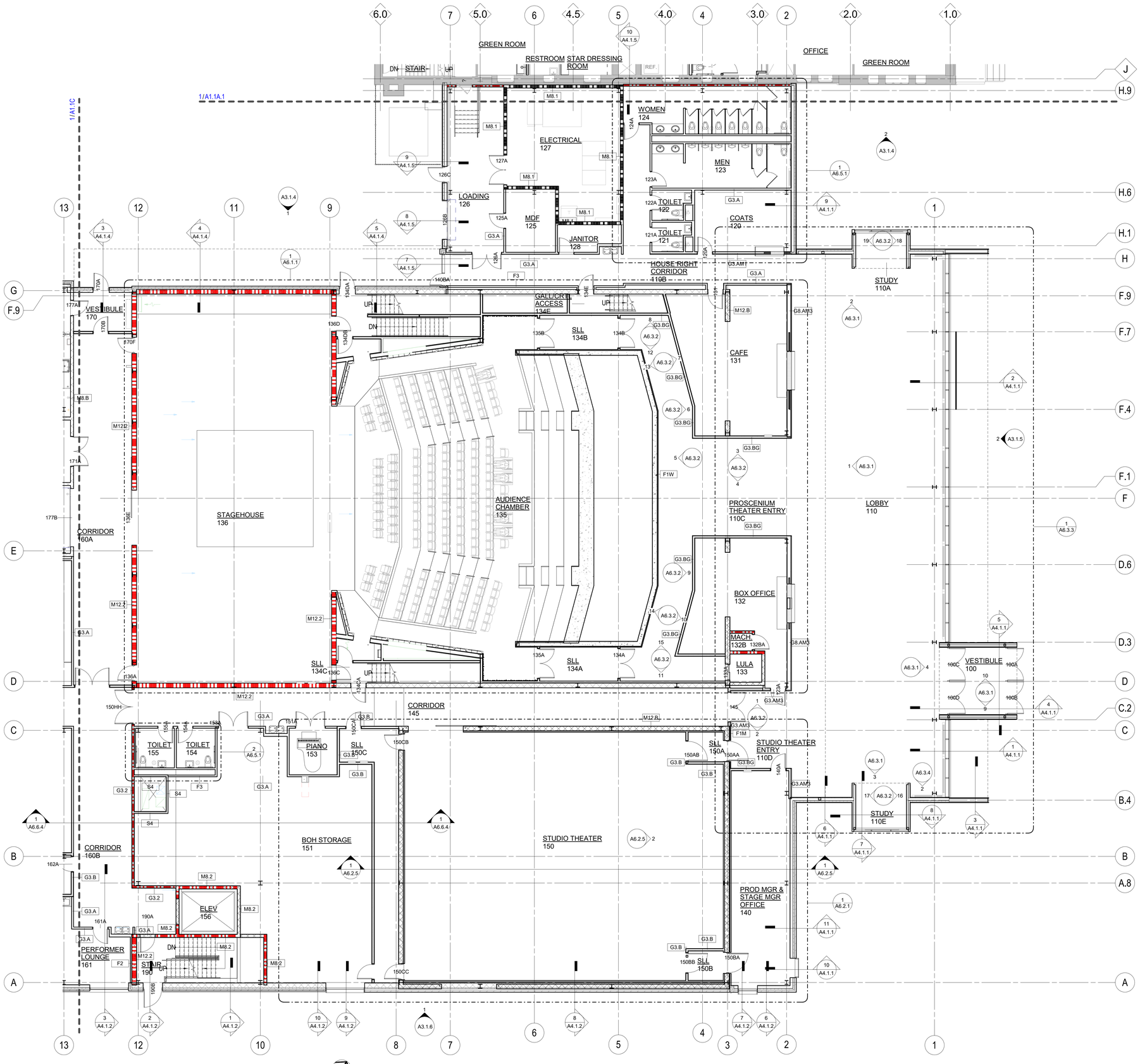
Signature:

Drawing No:

# A1.0B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version




NORTH

## LEVEL ONE - SECTOR B

1/8" = 1'-0"

## FLOOR PLAN LEGEND

- AREA OF WORK
- NEW PARTITION WALL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL

## FLOOR PLAN NOTES

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architecture landscape architecture urban design

HGA

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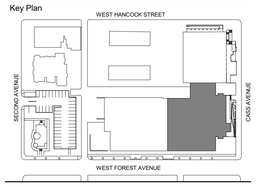
| DETROIT, MI | |

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL ONE PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

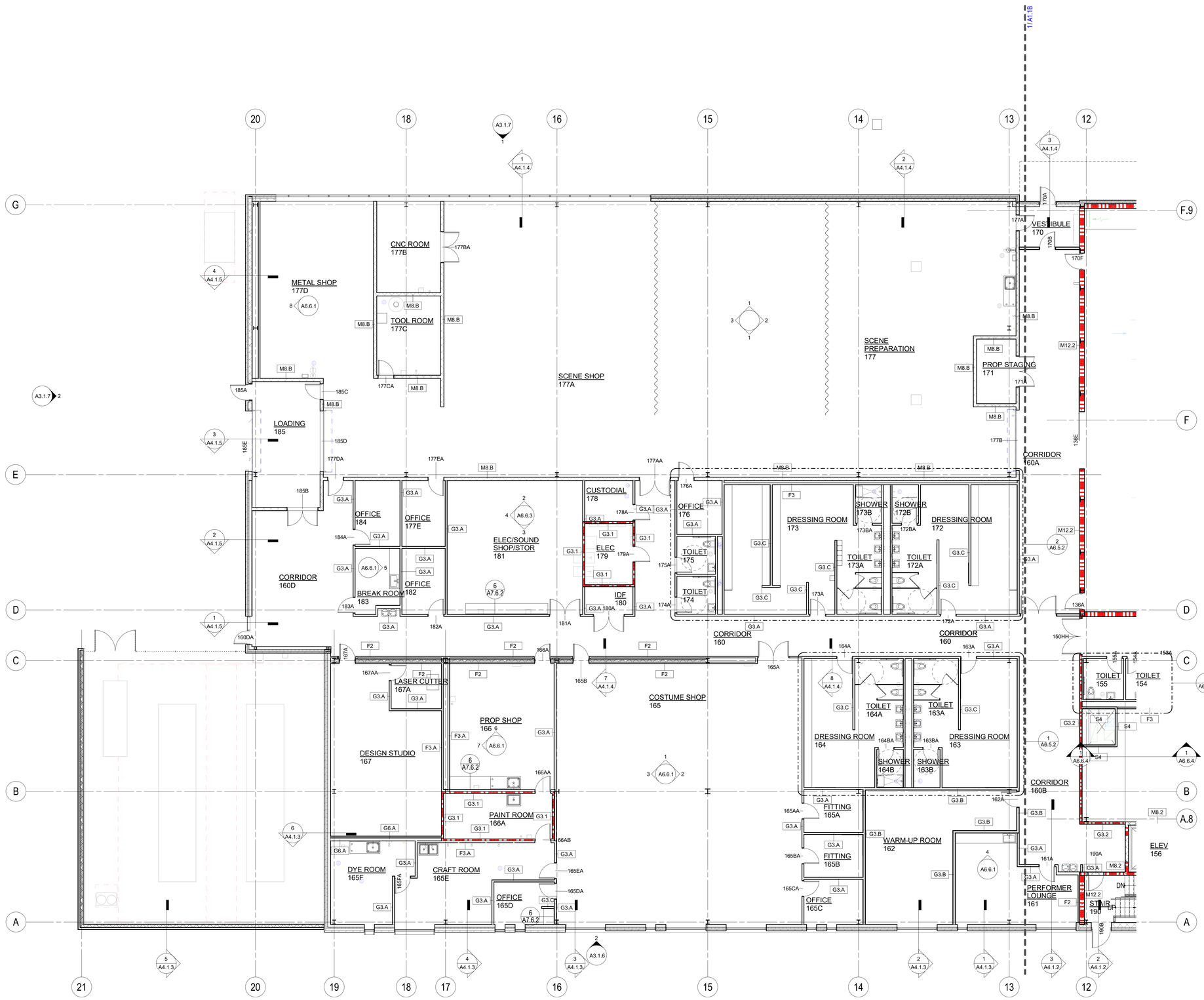
Signature:

Drawing No:

# A1.1B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version




LEVEL ONE - SECTOR C
1/8" = 1'-0"

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- AREA OF WORK
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HamiltonAnderson
architecture landscape architecture urban design

HGA

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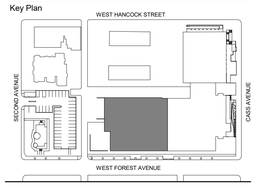
DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
LEVEL ONE PLAN - SECTOR C

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
A1.1C

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
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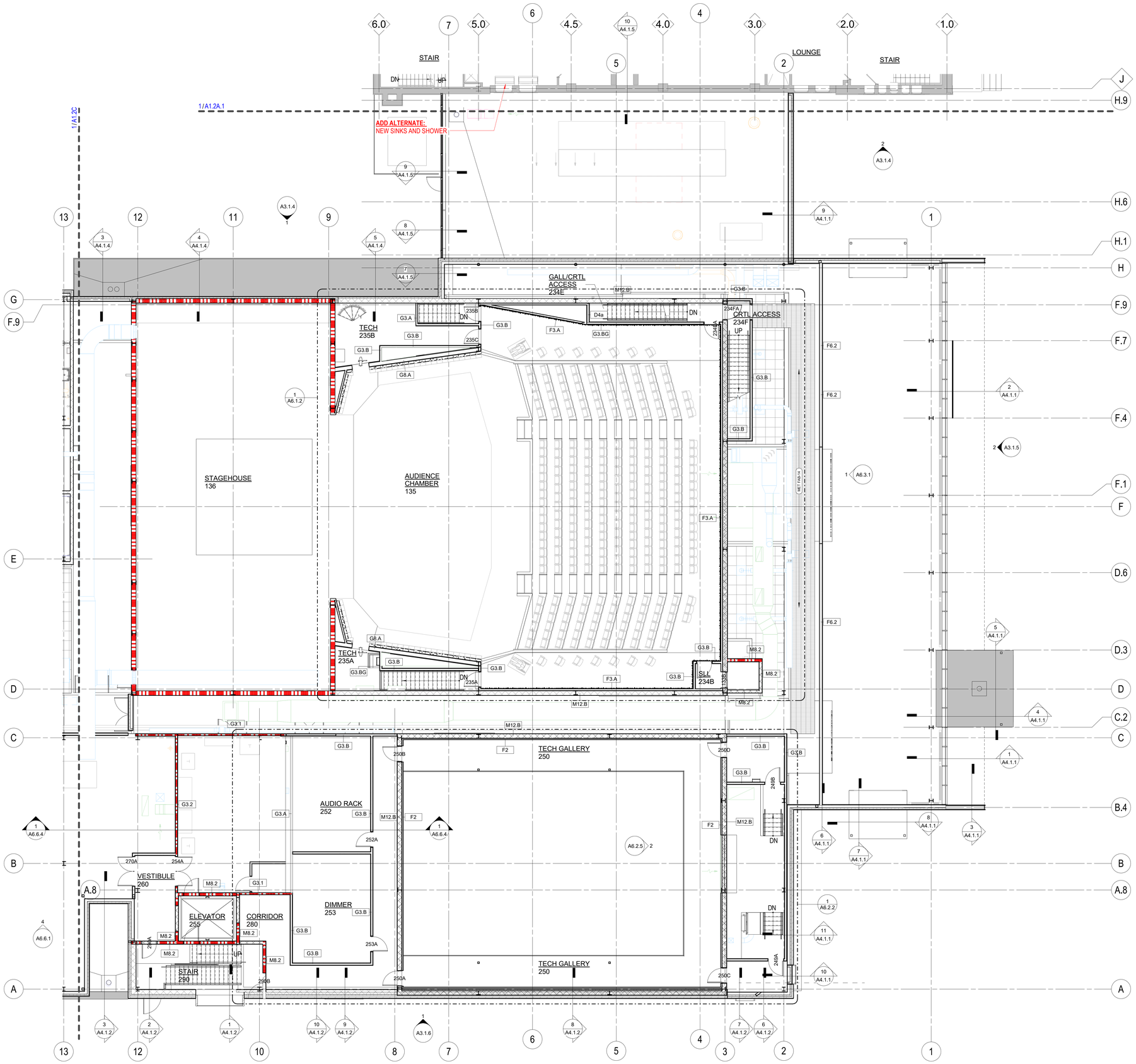


NORTH

LEVEL TWO - SECTOR B
1/8" = 1'-0"

## FLOOR PLAN LEGEND

- AREA OF WORK
- NEW PARTITION WALL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL

## FLOOR PLAN NOTES

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HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

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DETROIT, MI

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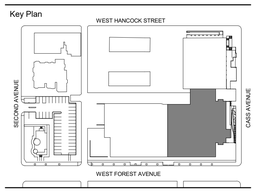


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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
## LEVEL TWO PLAN - SECTOR B

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
# A1.2B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
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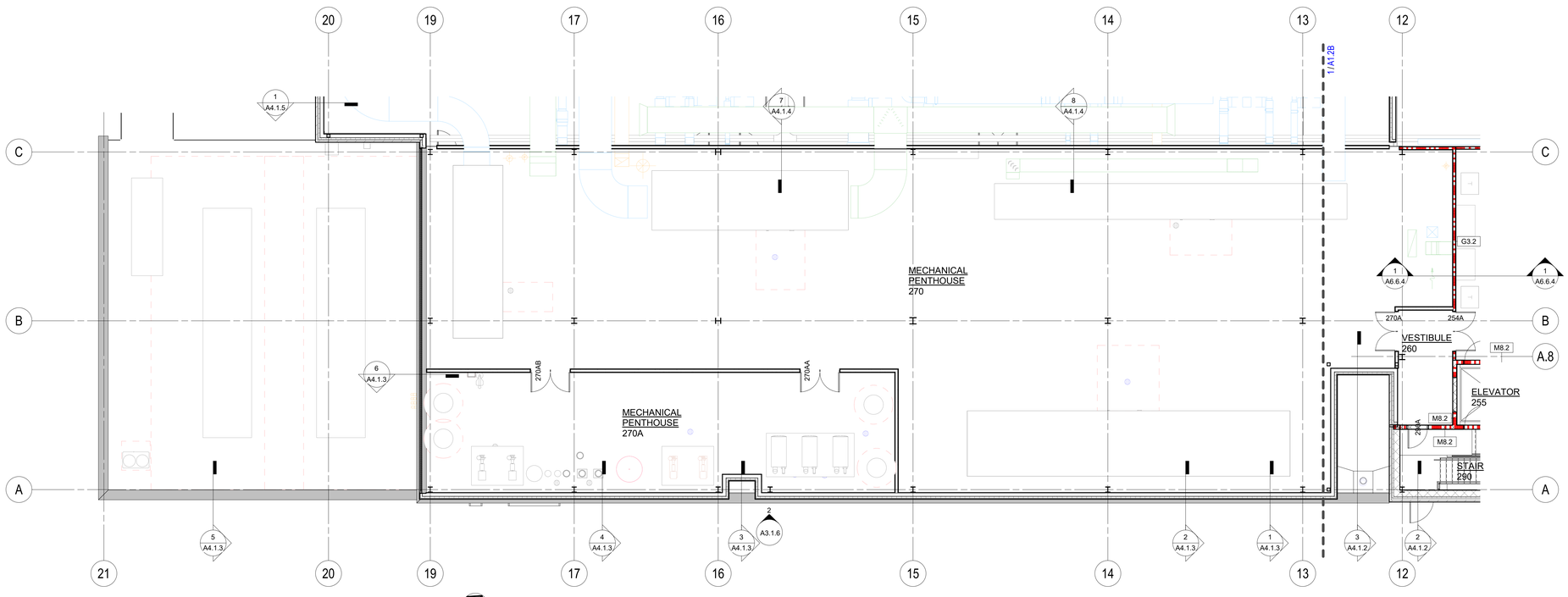


NORTH

LEVEL TWO - SECTOR C
1/8" = 1'-0"

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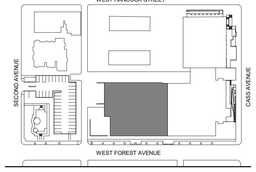
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL TWO PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

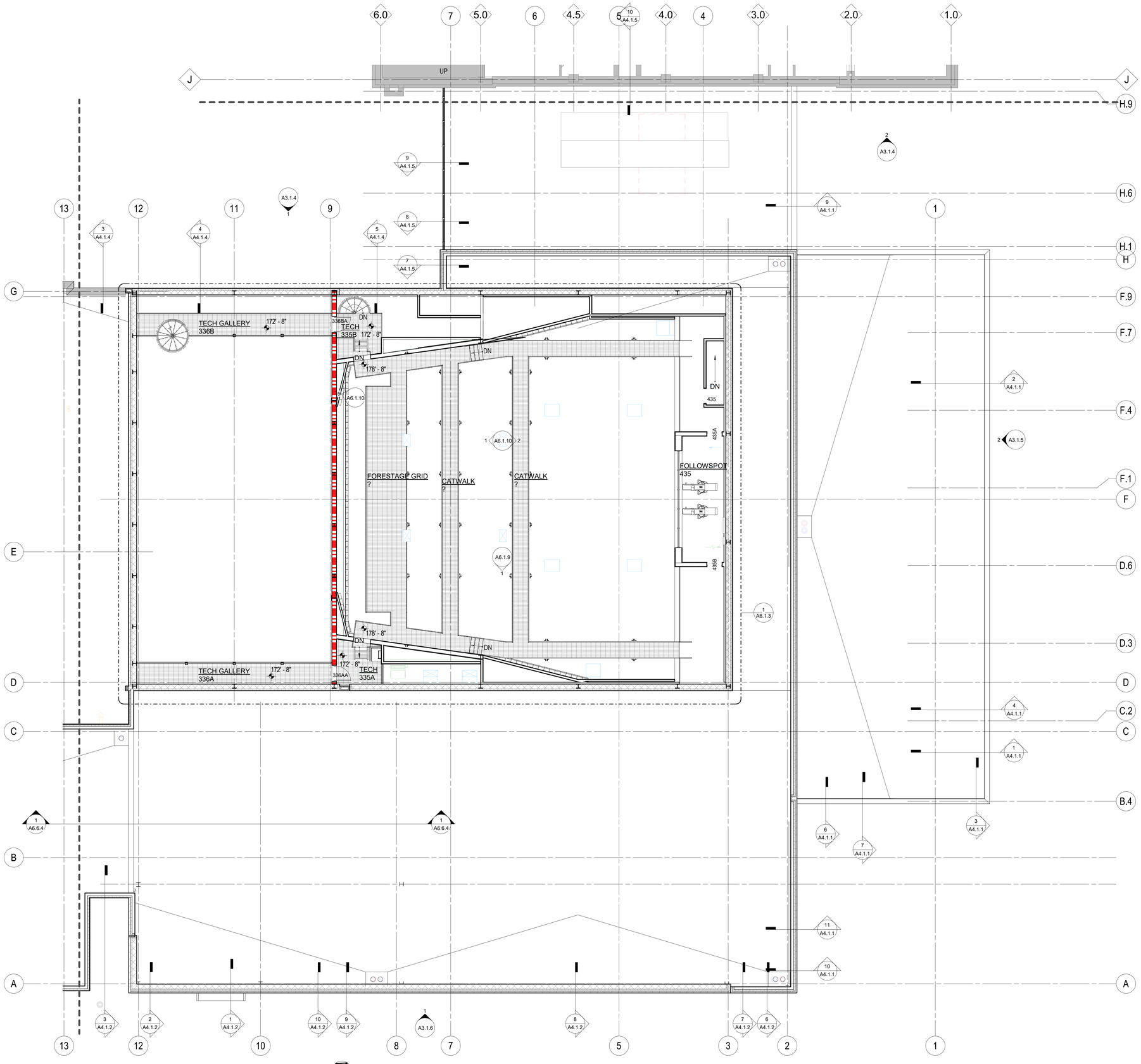
Signature:

Drawing No:

# A1.2C

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/0.rvt

Sheet Size: 30" x 42"
- Template Version




NORTH

TECH LEVEL - SECTOR B
1/8" = 1'-0"

## FLOOR PLAN LEGEND

- AREA OF WORK
- NEW PARTITION WALL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL

## FLOOR PLAN NOTES

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV
2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION
3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF MASONRY UNO
4. PROVIDE PATCHING COMPOUND AND UNDERLAYMENT TO REPAIR FLOORS DAMAGED BY DEMOLITION AND TERRAZO BASE REMOVAL. RESTORE FLOOR SURFACE TO A LEVEL SUBSTRATE SUITABLE FOR INSTALLATION OF NEW FLOORING.
5. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UNO. RE: A7.1
6. ALL PARTITIONS ARE TO BE G3.A UNO
7. REFER TO SHEET A7.4.1 FOR PARTITION TYPES
8. REFER TO SHEET A7.4.3 FOR FIRESTOPPING AND PENETRATION DETAILS
9. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DETAILS - PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT
10. REFER TO FLOOR FINISH PLANS (DRAWING SERIES A7.7) FOR:
    - FLOOR PATTERN INTENT
    - WALL PROTECTION LOCATIONS
    - TRANSITION LOCATIONS
11. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS - REDUCE SUPPORTED SLAB DESIGNED THICKNESS BY 1/4" MAX TO ACCOMMODATE FLOOR SLOPE TO DRAIN
12. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS.
13. ALL BASE CABINETS TO BE AS NOTED W/ WOOD FILLER PANELS WHERE NEEDED
14. NEW CONSTRUCTION WALLS TO BE FLUSH WITH EXISTING WHERE INDICATED.
15. PROVIDE GLASSMAT BACKER AT ALL TOILET ROOM TILE WALLS.
16. INFILL ALL UNUSED FLOOR/WALL PENETRATIONS TO MATCH ADJACENT SURFACE.

| PLAN KEYNOTES | |
|---|---|
| Number | Note |

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WAYNE STATE UNIVERSITY


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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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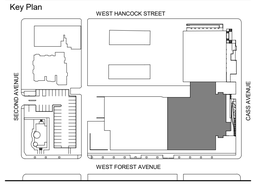
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |


Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TECH LEVEL FLOOR PLAN -SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A1.3B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

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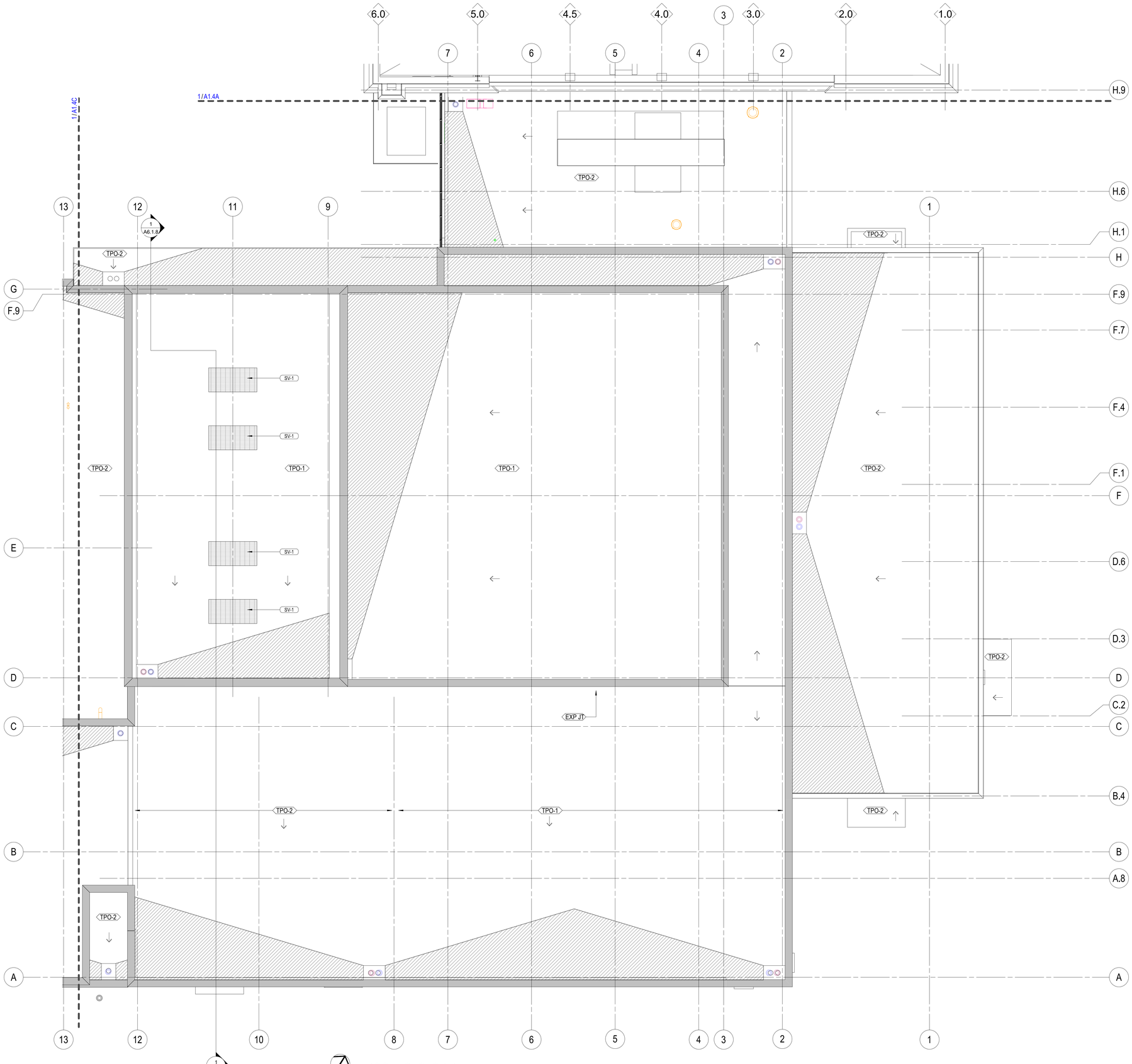


1/A6.1.8

NORTH

ROOF - SECTOR B
1/8" = 1'-0"

## ROOF PLAN LEGEND

- ROOF PITCH DIRECTION
- ROOF HATCH- REFER TO DETAIL 10/A4.4.1
- REFRIGERANT PIPE PENETRATION - DETAIL 3/A4.4.1 SIMILAR - REFER TO MECH.
- ROOFTOP MECHANICAL EQUIPMENT ON PRE-FAB. CURB OR REINFORCED MEMBRANE. REFER TO MECH. DWGS. FOR MORE INFO.
- 32"x32" WALKWAY PADS
- LOW-SLOPE ROOF AREAS BUILT UP WITH ADDITIONAL TAPERED INSULATION.
- R.S. ROOF SUMP
- O.S. OVERFLOW ROOF SUMP
- H.P. ROOF SLOPE - HIGH POINT
- L.P. ROOF SLOPE - LOW POINT

## ROOF PLAN NOTES

1. ROOF SLOPES 1/4"/FT UNLESS NOTED OTHERWISE
2. PROVIDE WALKWAY PADS FROM ROOF ACCESS UP TO AND AROUND ALL MECHANICAL UNITS UNO.
3. REFER TO SHEET A4.4.1 FOR TYPICAL ROOF DETAILS
4. REFER TO MECHANICAL DRAWINGS FOR ROOF EQUIPMENT AND ROOF VENTS
5. PROVIDE TAPERED INSULATION AT ALL ROOF TYP. EQUIPMENT TO ACHIEVE POSITIVE DRAINAGE, (NOT SHOWN)
6. ROOF ASSEMBLY - 60 MIL, FULLY-ADHERED, TPO MEMBRANE OVER 3.5" CONTINUOUS POLY-ISO INSULATION PLUS TAPERED INSULATION.
7. FUTURE ROOFTOP EQUIPMENT IS DESIGNATED WITH AN "F ." THE NUMBER AFTER THE "F" INDICATES THE WEIGHT OF THE UNIT IN POUNDS:
   F300 = A FUTURE 300 LB. UNIT
   F1.8K = A FUTURE 1800 LB. UNIT

| PLAN KEYNOTES | |
|---|---|
| Number | Note |

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WAYNE STATE UNIVERSITY

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|---|---|
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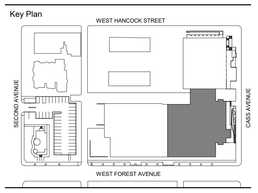
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ROOF PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A1.4B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

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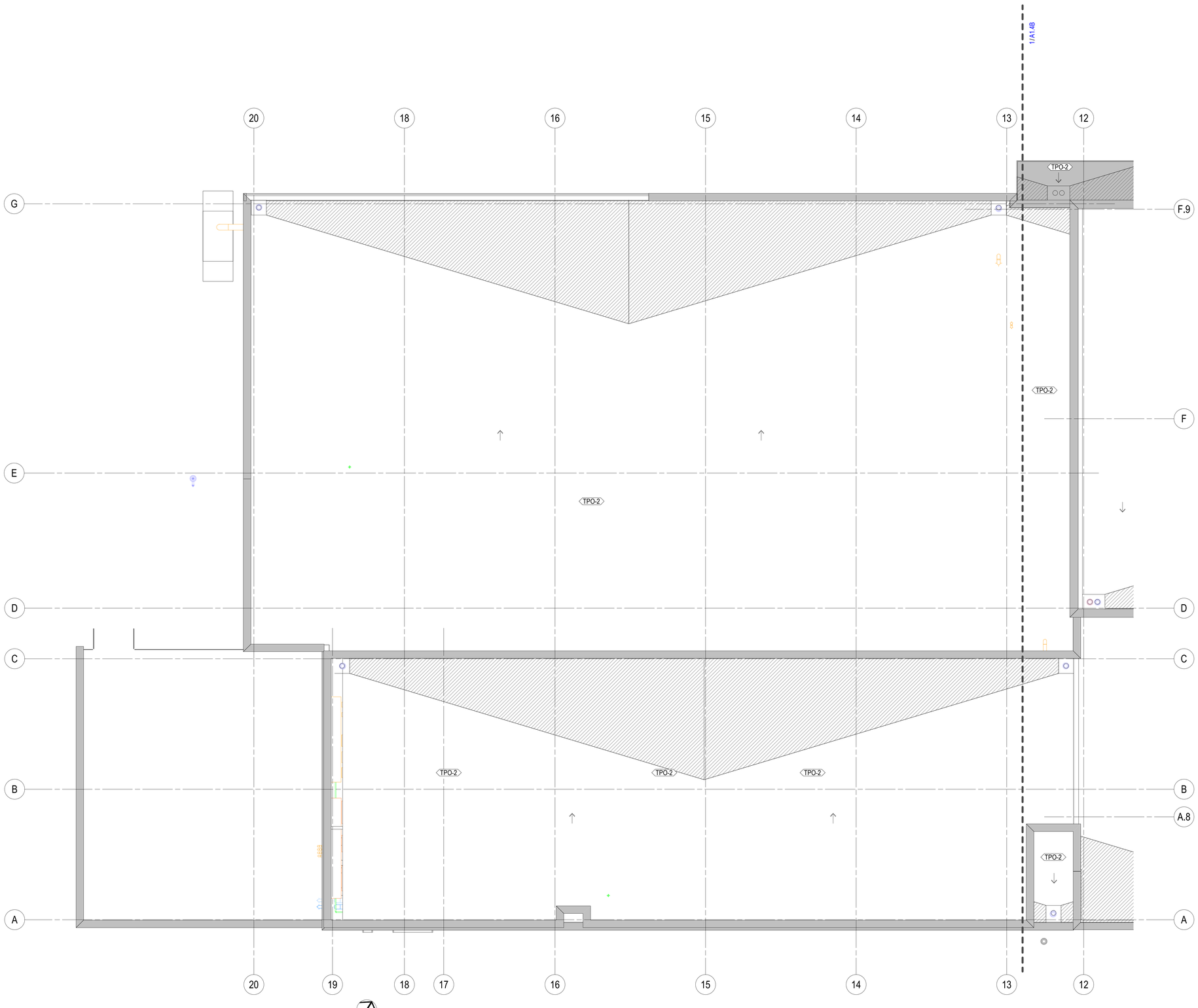


NORTH

ROOF - SECTOR C
1/8" = 1'-0"

## ROOF PLAN LEGEND

- ROOF PITCH DIRECTION
- ROOF HATCH- REFER TO DETAIL 10/A4.4.1
- REFRIGERANT PIPE PENETRATION - DETAIL 3/A4.4.1 SIMILAR - REFER TO MECH.
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## ROOF PLAN NOTES

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| PLAN KEYNOTES | |
|---|---|
| Number | Note |

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|---|---|
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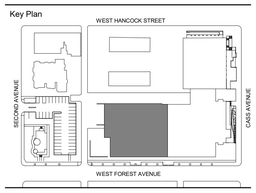
DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ROOF PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A1.4C

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
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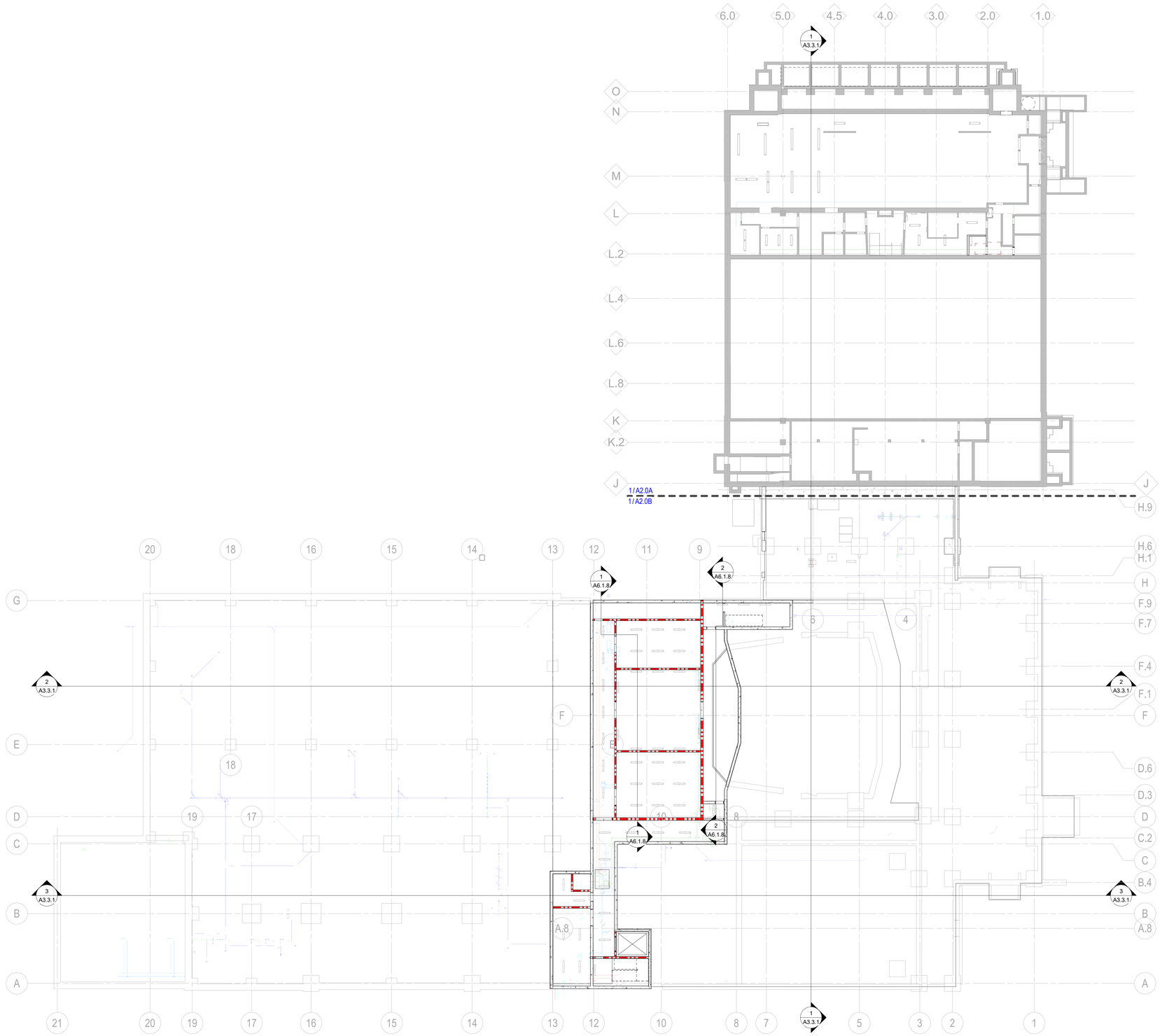


NORTH

LOWER LEVEL - COMPOSITE RCP
1/16" = 1'-0"

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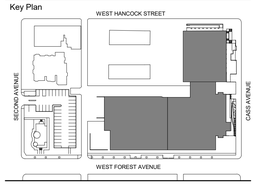
DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## COMPOSITE LOWER LEVEL REFLECTED CEILING PLAN

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

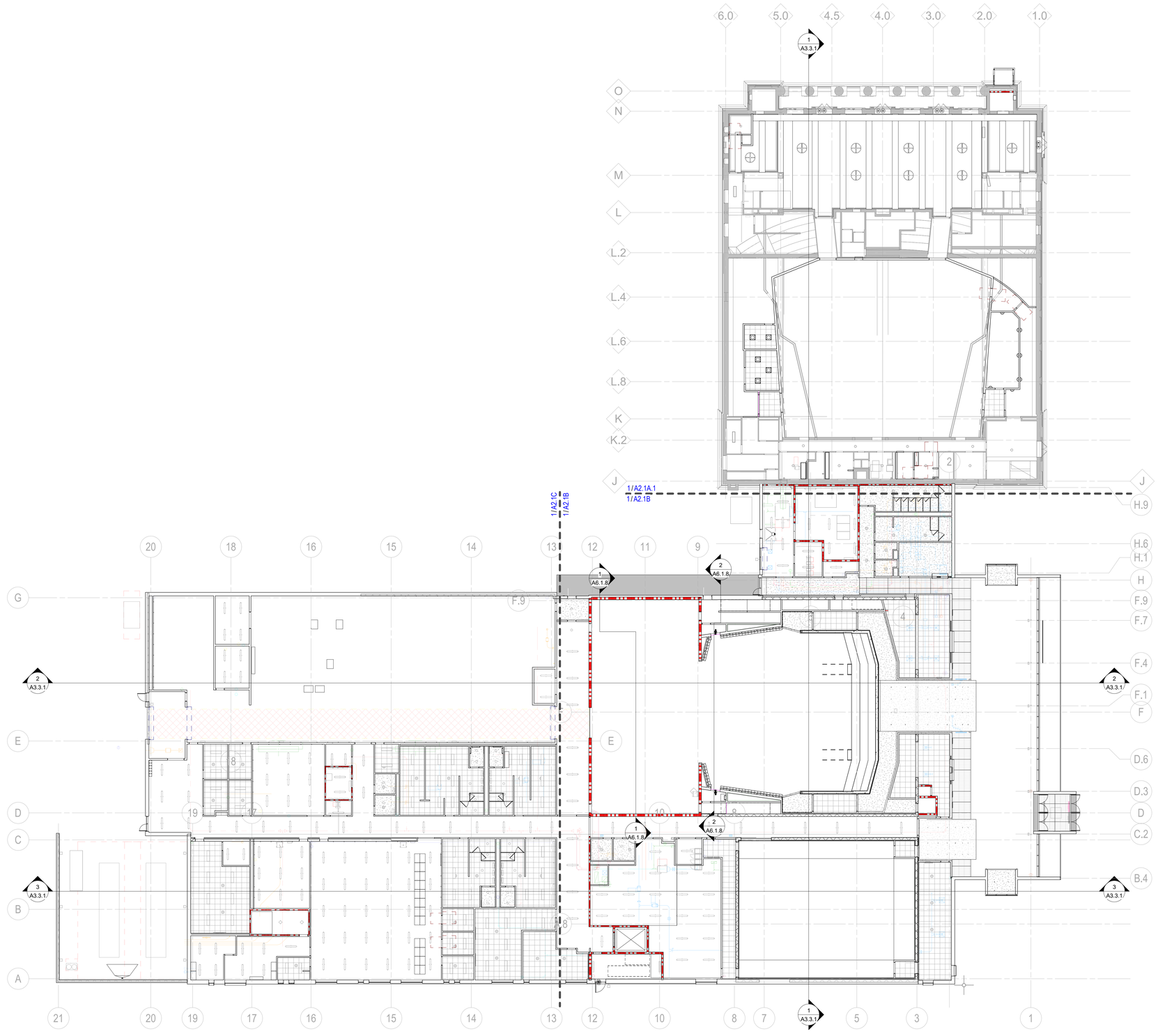
Signature:

Drawing No:

A2.0.0

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




NORTH

LEVEL ONE - COMPOSITE RCP
1/16" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001001.rvt

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|---|---|
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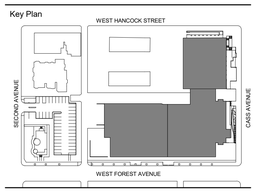
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## COMPOSITE LEVEL ONE REFLECTED CEILING PLAN

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

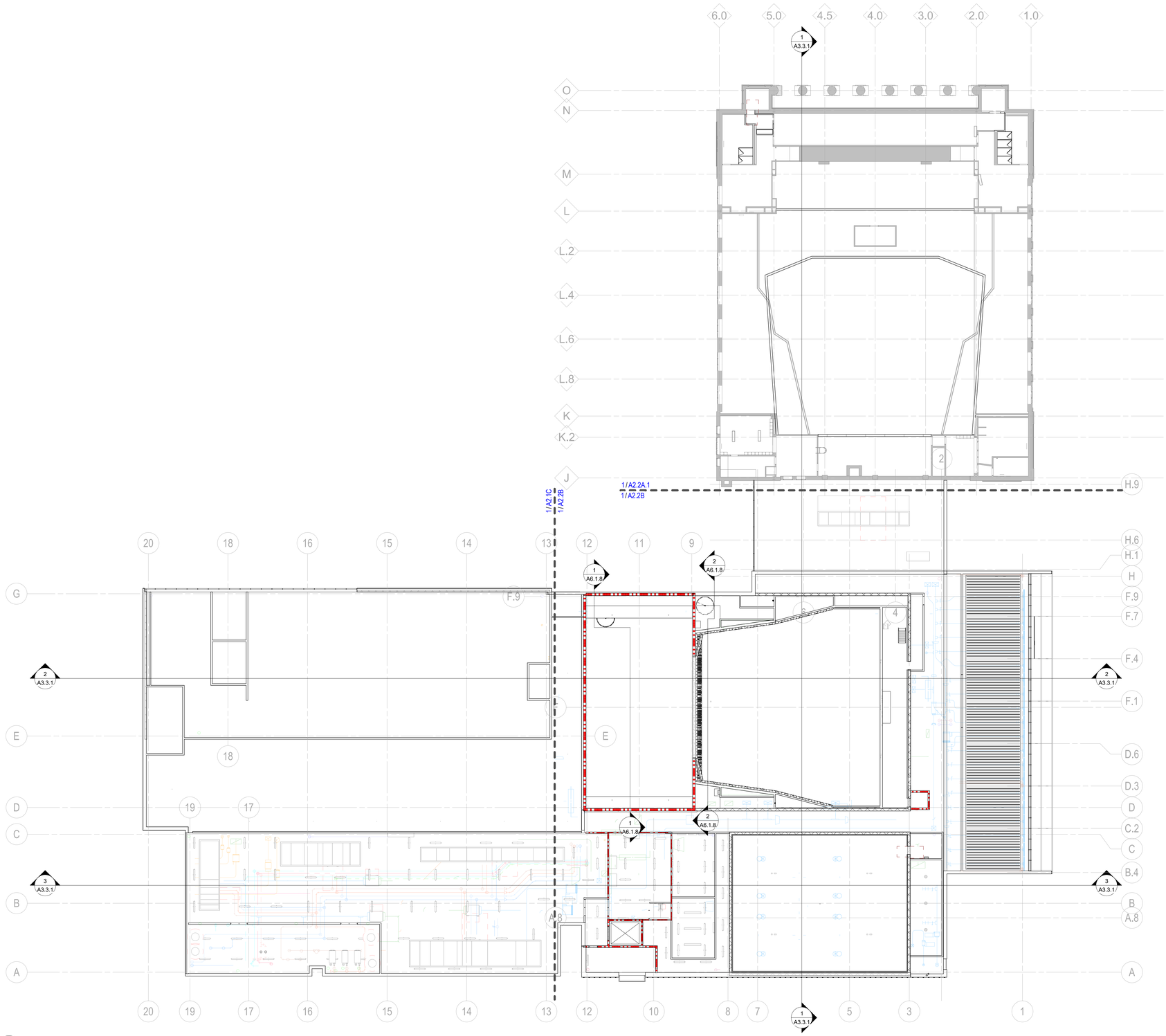
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

A2.0.1

Sheet Size: 30" x 42"
- Template Version




NORTH

LEVEL TWO - COMPOSITE RCP
1/16" = 1'-0"

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|---|---|
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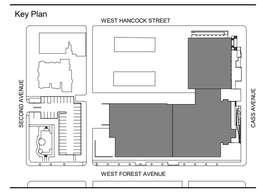
DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## COMPOSITE LEVEL TWO REFLECTED CEILING PLAN

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

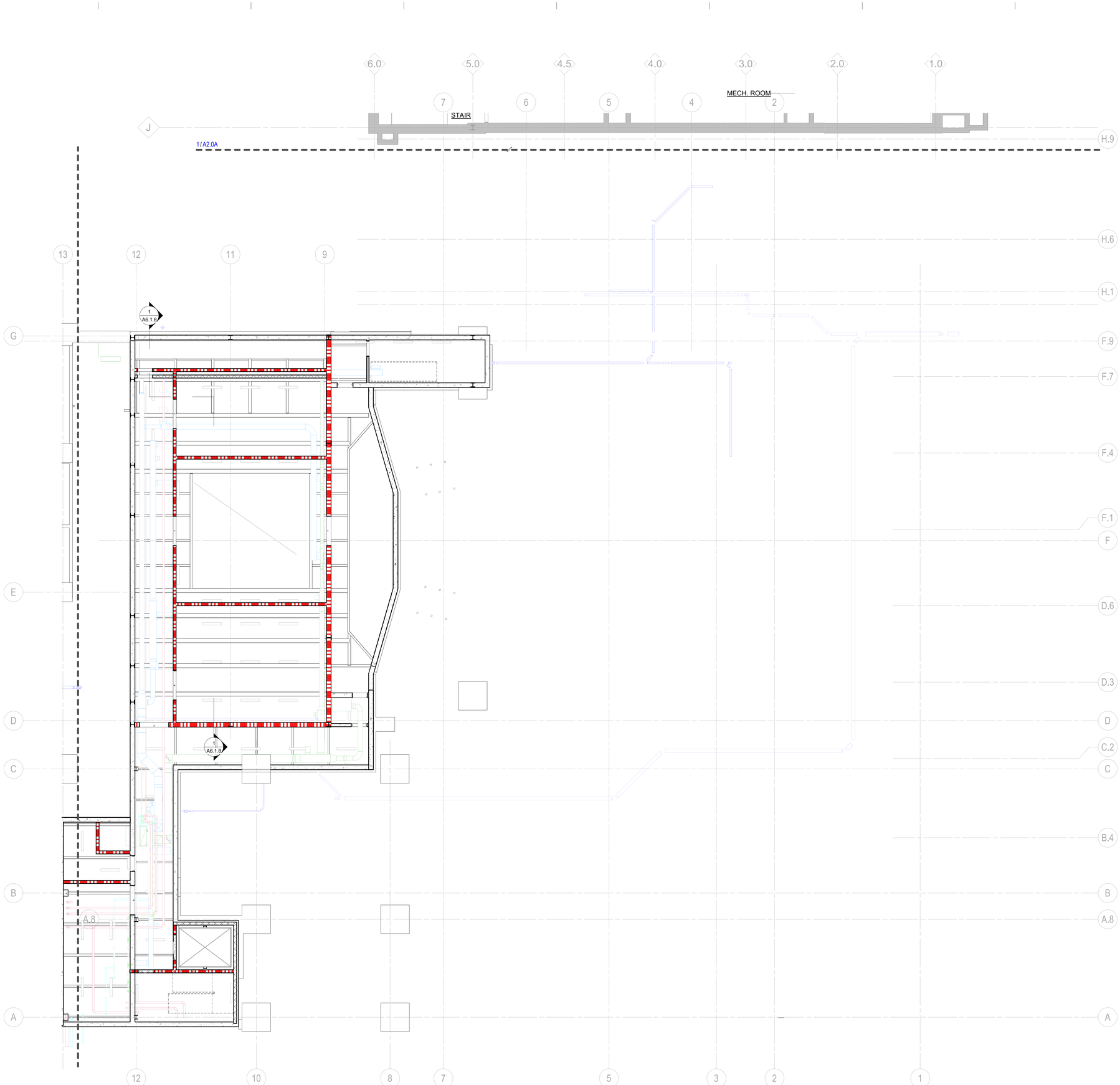
Signature:

Drawing No:

A2.0.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




## CEILING PLAN LEGEND

- ACT-1
- ACT-4
- GYP. BOARD
- MP-1
- AST-12
- ORN MET-4
- WD FAB-5
- STRIP LIGHTING
- 2X2 LAY-IN CEILING LIGHT, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- DECORATIVE PENDANT MOUNTED CORRIDOR, RE: ELEC
- DECORATIVE PENDANT MOUNTED DINING, RE: ELEC
- CEILING MOUNTED DUPLEX RECEPTACLE, RE: ELEC
- CEILING MOUNTED TELECOM, RE: ELEC
- CONCEALED SPRINKER HEAD CUSTOM COLOR TO MATCH CLNG FINISH
- SD — CEILING MOUNTED SMOKE DETECTOR, RE: ELEC
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
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- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST REGISTER

## CEILING PLAN GENERAL NOTES

1. REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
2. REFER TO MECHANICAL AND ELECTRICAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
3. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS
4. COORDINATE LOCATION OF ALL ELEMENTS WITHIN HARD CEILING WITH ARCHITECT PRIOR TO INSTALLATION
5. CENTER ALL CEILING GRIDS WITHIN ROOMS UNLESS NOTED OTHERWISE
6. PROVIDE BLOCKING IN CEILING AS REQUIRED FOR DISPLAY FIXTURES, DECORATIVE LIGHT FIXTURES, CEILING HUNG EQUIPMENT, TOILET PARTITIONS, ETC.
7. ALL CEILING MOUNTED EQUIPMENT (SPRINKLER HEADS, SPEAKERS, LIGHT FIXTURES, SMOKE DETECTORS, ETC) SHALL BE CENTERED IN CEILING TILES
8. CENTER ALL SMOKE DETECTORS WHEN LOCATED IN GYP BD CORRIDOR CEILING UNLESS NOTED OTHERWISE
9. GYPSUM BOARD SOFFITS INDICATED TO RECEIVE PAINT ON HORIZONTAL AND VERTICAL SURFACE UNLESS OTHERWISE NOTED.
10. SPRINKLER HEAD COVERS TO MATCH SURFACE ON WHICH THEY LAY
    FINISH COLOR TO BE SELECTED BY ARCHITECT
    - COORDINATE WITH FIRE PROTECTION/ MECHANICAL
11. DIFFUSERS TO MATCH THE FINISH OF THE SURFACE ON WHICH THEY LAY
    - FINISH COLOR TO BE SELECTED BY ARCHITECT
12. ALL ELEMENTS IN EXPOSED CEILING APPLICATIONS ABOVE HEIGHT **XX'-XX"** ARE TO MATCH PAINTED SURFACE ON WHICH THEY LAY UNLESS PROHIBITED BY CODE, INCLUDING, BUT NOT LIMITED TO:
    - MECHANICAL ELEMENTS (DUCT WORK)
    - ELECTRICAL ELEMENTS
    - PLUMBING ELEMENTS
    - STRUCTURAL ELEMENTS (STRUCTURAL DECK)
    - DO NOT PAINT SPRAY ON FIREPROOFING
13. ALL STRUCTURE IN LOBBY TO BE PT-11
    ALL ELEMENTS IN EXPOSED LOBBY CEILING TO BE PAINTED PT-3
14. EXISTING CEILINGS: PATCH AND REPAIR EXISTING CEILING TO MATCH ADJACENT EXISTING CONSTRUCTION AT COMPLETION OF OVERHEAD PLUMBING AND MECHANICAL WORK. EXISTING CEILING TILES TO BE REMOVED, PROTECTED AND REPLACED. SEE: MECHANICAL DRAWINGS

| PLAN KEYNOTES | |
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| Number | Note |

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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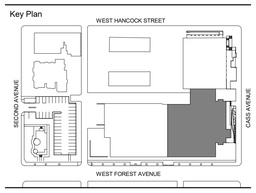
| DETROIT, MI | |


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LOWER LEVEL REFLECTED CEILING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

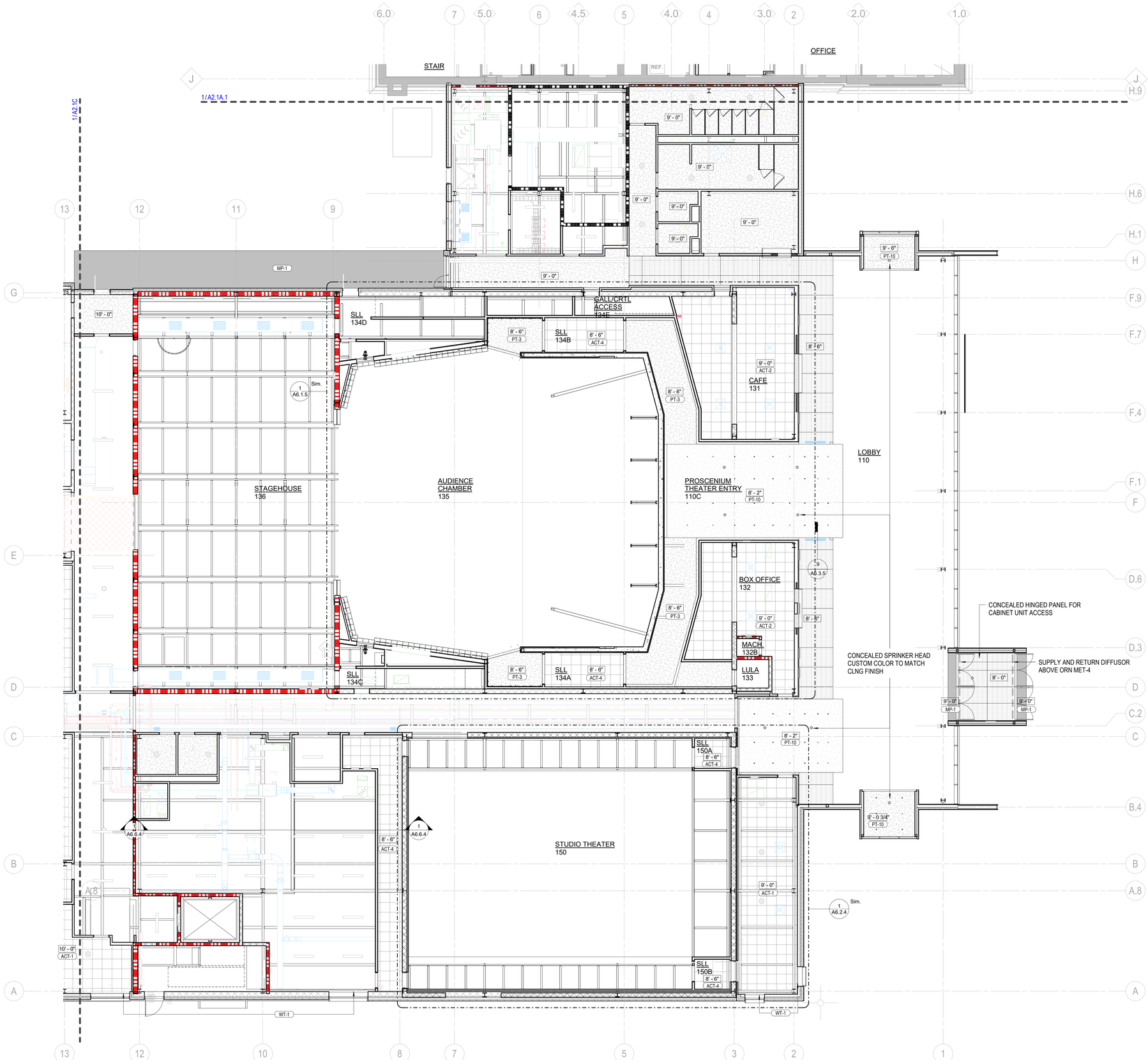
# A2.0B

NORTH

LOWER LEVEL RCP - SECTOR B
1/8" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




NORTH

LEVEL ONE RCP - SECTOR B
1/8" = 1'-0"

## CEILING PLAN LEGEND

- ACT-1
- ACT-4
- GYP. BOARD
- MP-1
- AST-12
- ORN MET-4
- WD FAB-5
- STRIP LIGHTING
- 2X2 LAY-IN CEILING LIGHT, RE: ELEC
- RECESSED CAN LIGHT, RE: El EC
- DECORATIVE PENDANT MOUNTED CORRIDOR, RE: ELEC
- DECORATIVE PENDANT MOUNTED DINING, RE: ELEC
- CEILING MOUNTED DUPLEX RECEPTACLE, RE: ELEC
- CEILING MOUNTED TELECOM, RE: ELEC
- CONCEALED SPRINKER HEAD CUSTOM COLOR TO MATCH CLNG FINISH
- SD CEILING MOUNTED SMOKE DETECTOR, RE: ELEC
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
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- EXHAUST REGISTER

## CEILING PLAN GENERAL NOTES

1. REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
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5. CENTER ALL CEILING GRIDS WITHIN ROOMS UNLESS NOTED OTHERWISE
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| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL ONE REFLECTED CEILING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A2.1B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

NORTH

LEVEL ONE RCP - SECTOR C
1/8" = 1'-0"

## CEILING PLAN LEGEND

- ACT-1
- ACT-4
- GYP. BOARD
- MP-1
- AST-12
- ORN MET-4
- WD FAB-5
- STRIP LIGHTING
- 2X2 LAY-IN CEILING LIGHT, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- DECORATIVE PENDANT MOUNTED CORRIDOR, RE: ELEC
- DECORATIVE PENDANT MOUNTED DINING, RE: ELEC
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- RETURN DIFFUSER
- EXHAUST REGISTER

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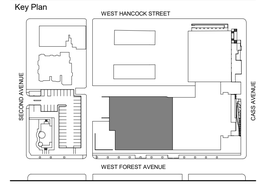
| DETROIT, MI | |

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL ONE REFLECTED CEILING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

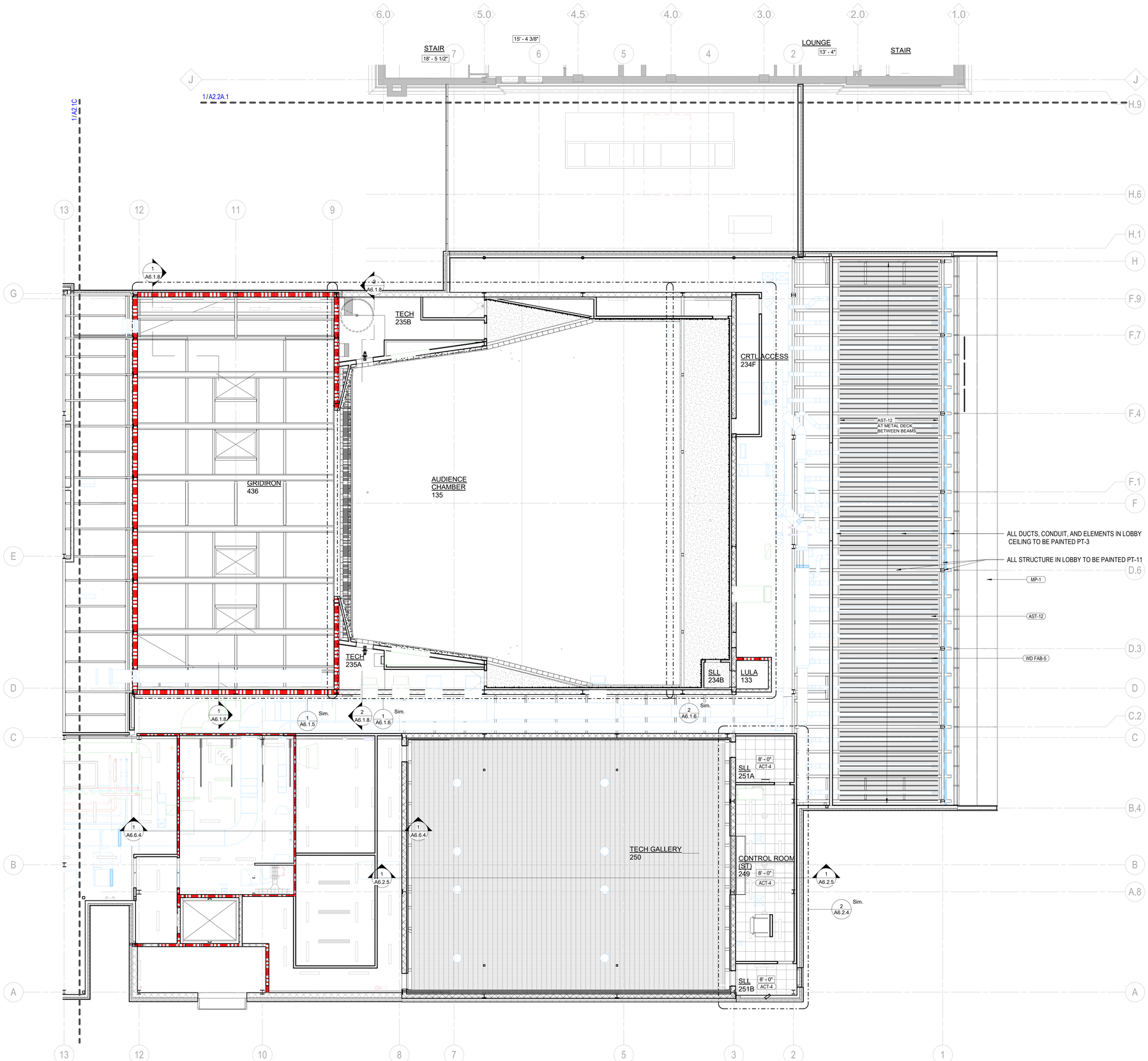
Signature:

Drawing No:

# A2.1C

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




NORTH

LEVEL TWO RCP - SECTOR B
1/8" = 1'-0"

## CEILING PLAN LEGEND

- ACT-1
- ACT-4
- GYP. BOARD
- MP-1
- AST-12
- ORN MET-4
- WD FAB-5
- STRIP LIGHTING
- 2X2 LAY-IN CEILING LIGHT, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- DECORATIVE PENDANT MOUNTED CORRIDOR, RE: ELEC
- DECORATIVE PENDANT MOUNTED DINING, RE: ELEC
- CEILING MOUNTED DUPLEX RECEPTACLE, RE: ELEC
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| | DETROIT, MI |

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO REFLECTED CEILING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A2.2B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/0.rvt

Sheet Size: 30" x 42"
- Template Version

## CEILING PLAN LEGEND

- ACT-1
- ACT-4
- GYP. BOARD
- MP-1
- AST-12
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- RETURN DIFFUSER
- EXHAUST REGISTER

1 / A6.1.8

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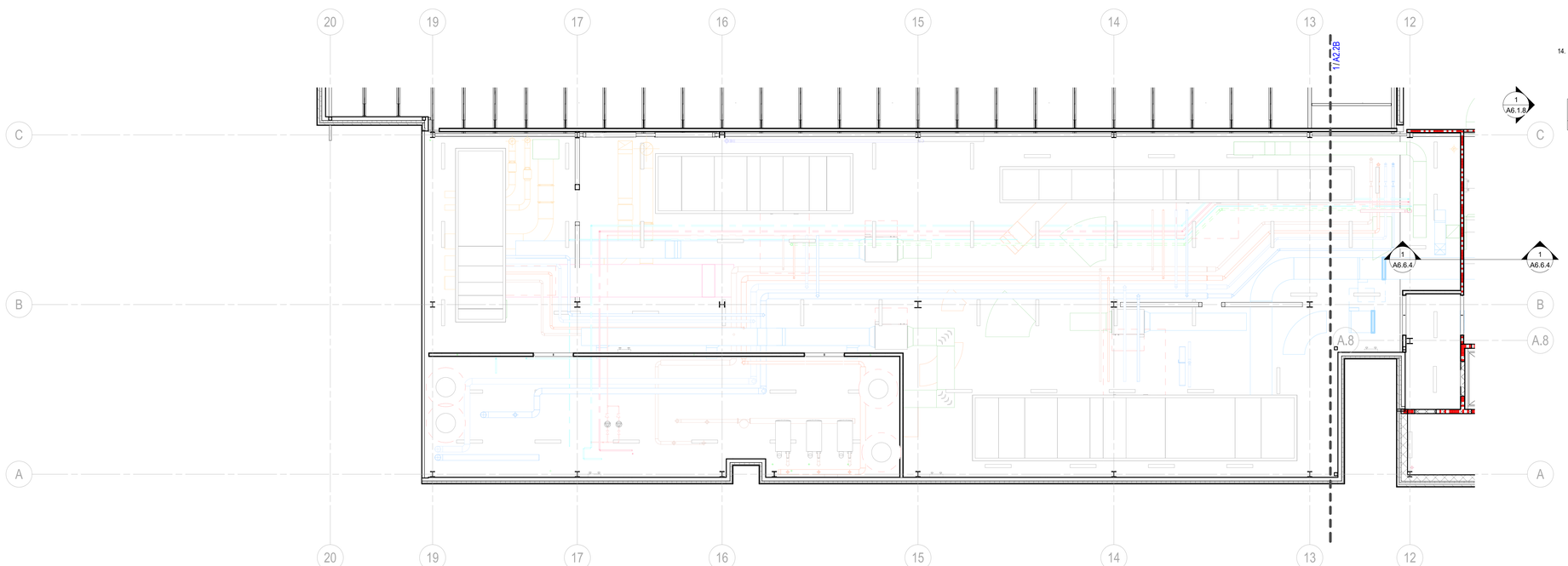
8. CENTER ALL SMOKE DETECTORS WHEN LOCATED IN GYP BD CORRIDOR CEILING UNLESS NOTED OTHERWISE
9. GYPSUM BOARD SOFFITS INDICATED TO RECEIVE PAINT ON HORIZONTAL AND VERTICAL SURFACE UNLESS OTHERWISE NOTED.
10. SPRINKLER HEAD COVERS TO MATCH SURFACE ON WHICH THEY LAY
    FINISH COLOR TO BE SELECTED BY ARCHITECT
    - COORDINATE WITH FIRE PROTECTION/ MECHANICAL
11. DIFFUSERS TO MATCH THE FINISH OF THE SURFACE ON WHICH THEY LAY
    - FINISH COLOR TO BE SELECTED BY ARCHITECT
12. ALL ELEMENTS IN EXPOSED CEILING APPLICATIONS ABOVE HEIGHT **XX'-XX"** BY ARE TO MATCH PAINTED SURFACE ON WHICH THEY LAY UNLESS PROHIBITED CODE, INCLUDING, BUT NOT LIMITED TO:
    - MECHANICAL ELEMENTS (DUCT WORK)
    - ELECTRICAL ELEMENTS
    - PLUMBING ELEMENTS
    - STRUCTURAL ELEMENTS (STRUCTURAL DECK)
    - DO NOT PAINT SPRAY ON FIREPROOFING
13. ALL STRUCTURE IN LOBBY TO BE PT-11
    ALL ELEMENTS IN EXPOSED LOBBY CEILING TO BE PAINTED PT-3
14. EXISTING CEILINGS: PATCH AND REPAIR EXISTING CEILING TO MATCH ADJACENT EXISTING CONSTRUCTION AT COMPLETION OF OVERHEAD PLUMBING AND MECHANICAL WORK. EXISTING CEILING TILES TO BE REMOVED, PROTECTED AND REPLACED. SEE: MECHANICAL DRAWINGS

| PLAN KEYNOTES | |
|---|---|
| Number | Note |




NORTH

LEVEL TWO RCP - SECTOR C
1/8" = 1'-0"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WAYNE STATE UNIVERSITY


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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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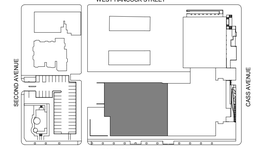
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO REFLECTED CEILING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

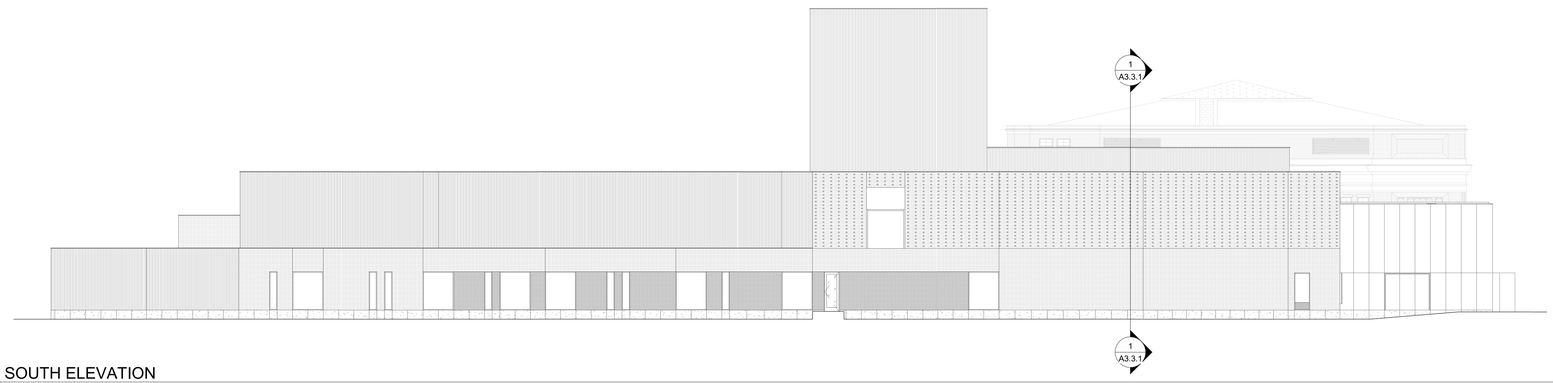
# A2.2C

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

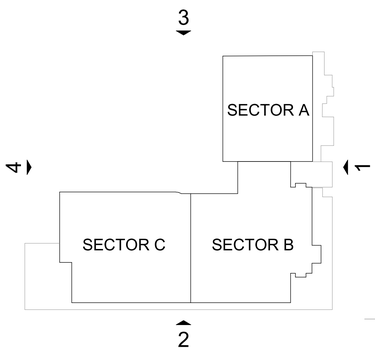
Sheet Size: 30" x 42"
: Template Version

4 WEST ELEVATION
1/16" = 1'-0"

3 NORTH ELEVATION
1/16" = 1'-0"




2 SOUTH ELEVATION
1/16" = 1'-0"



1 EAST ELEVATION
1/16" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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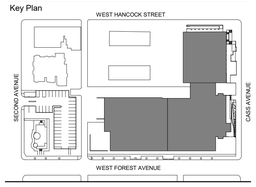
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
BUILDING ELEVATIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
A3.1.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

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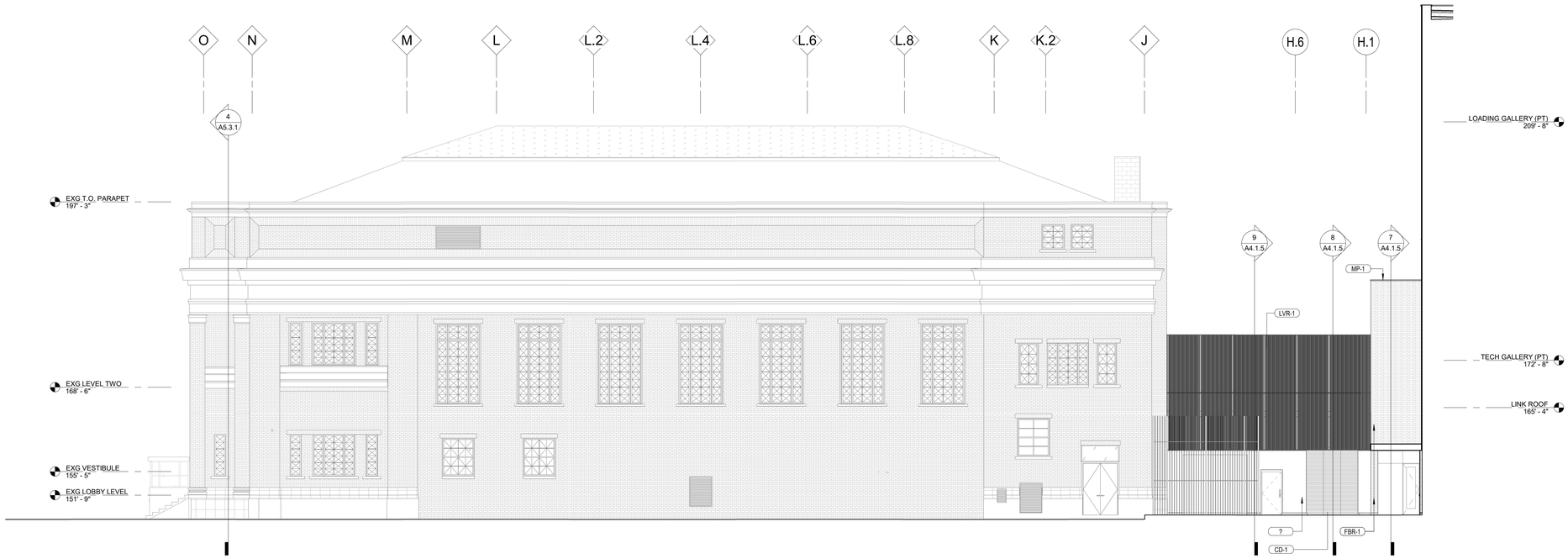
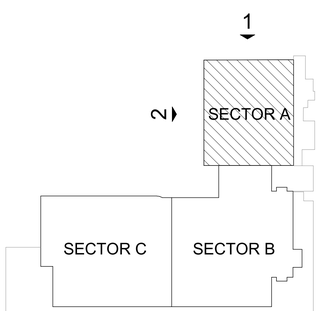
- Template Version




2 WEST ELEVATION - SECTOR A
1/8" = 1'-0"



1 NORTH ELEVATION - SECTOR A
1/8" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

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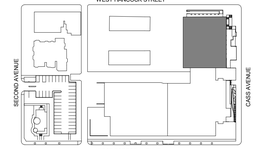
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# BUILDING ELEVATIONS

Project Number: 3995-001-00

Drawn By:

Scale: As indicated

Seal:

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Signature:

Drawing No:

# A3.1.3

Sheet Size: 30" x 42"
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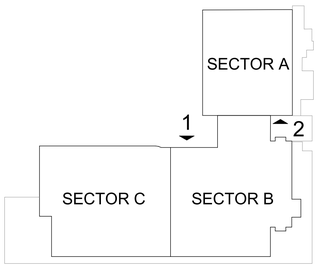
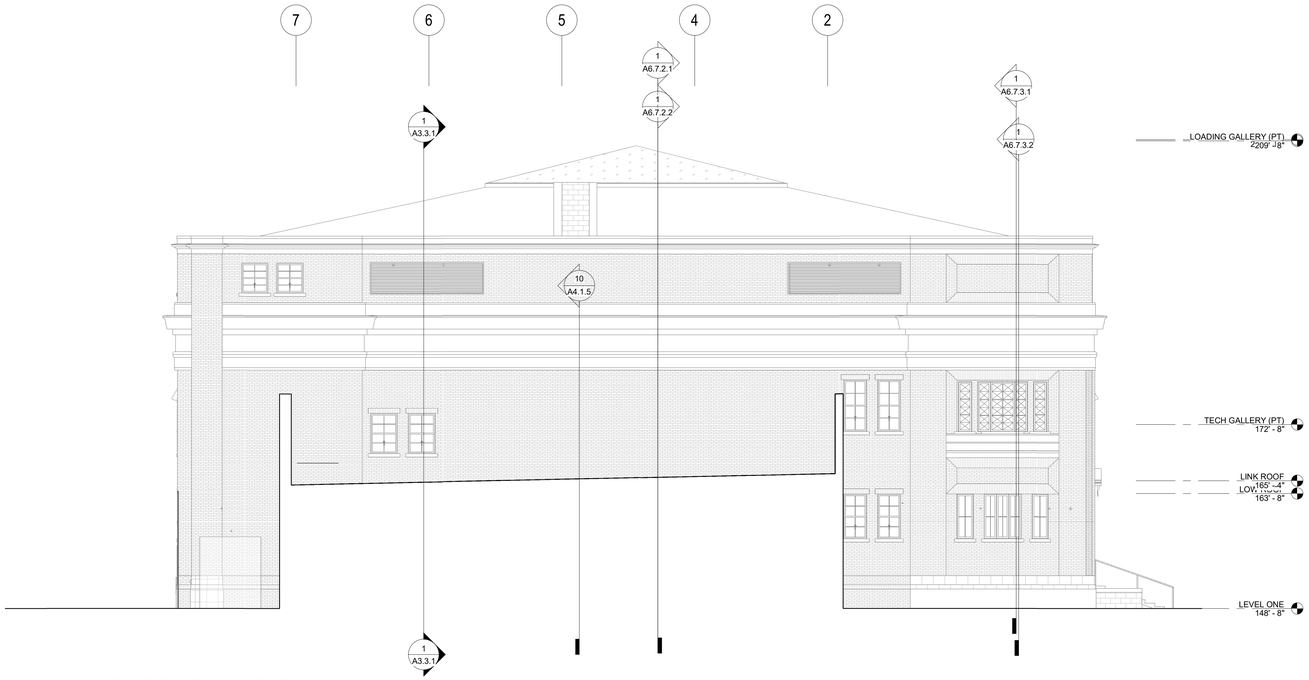
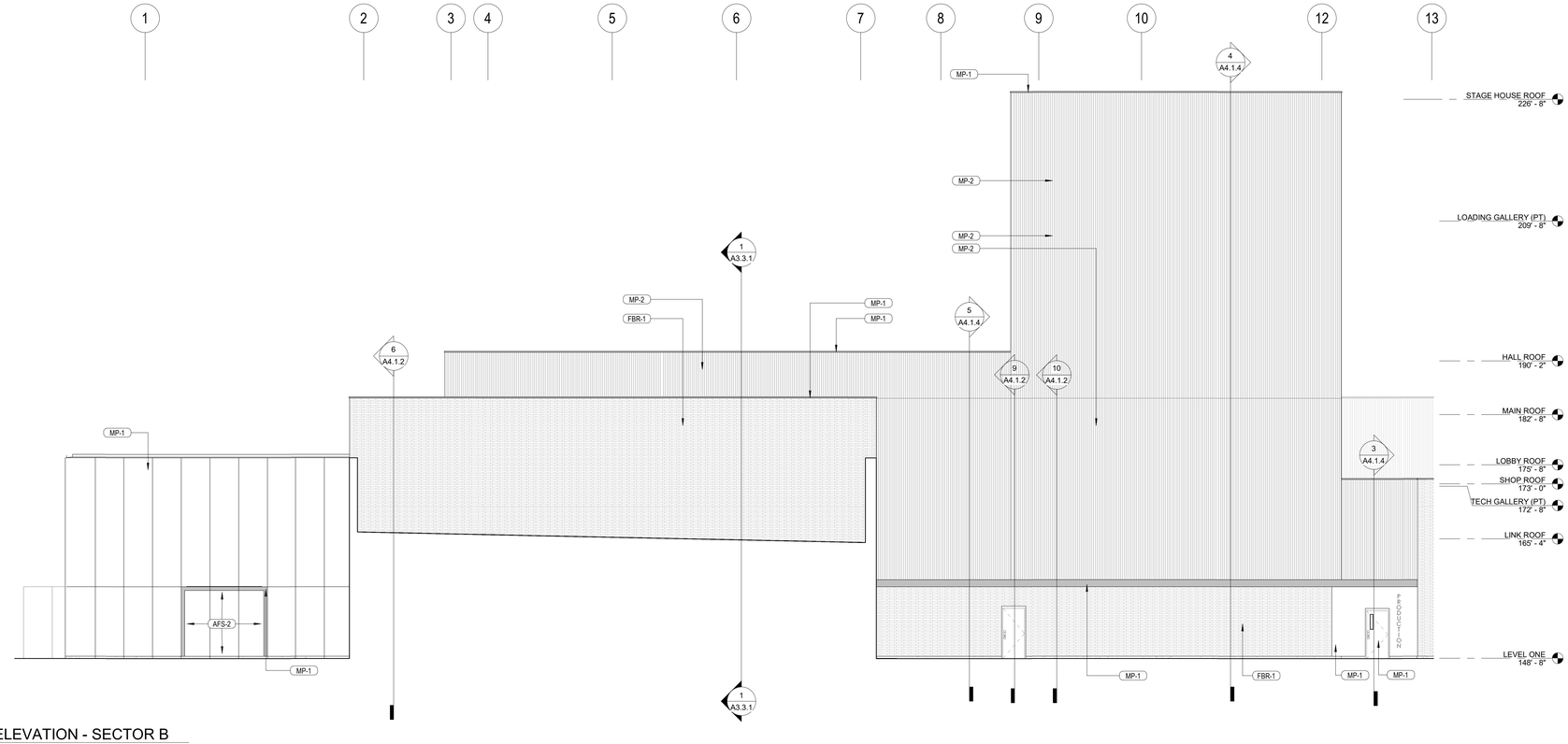



2 A202 SOUTH ELEVATION - SECTOR A FOH
1/8" = 1'-0"




1 A202 NORTH ELEVATION - SECTOR B
1/8" = 1'-0"

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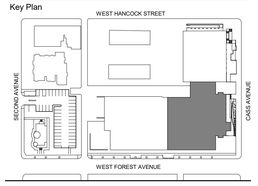
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# BUILDING ELEVATIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

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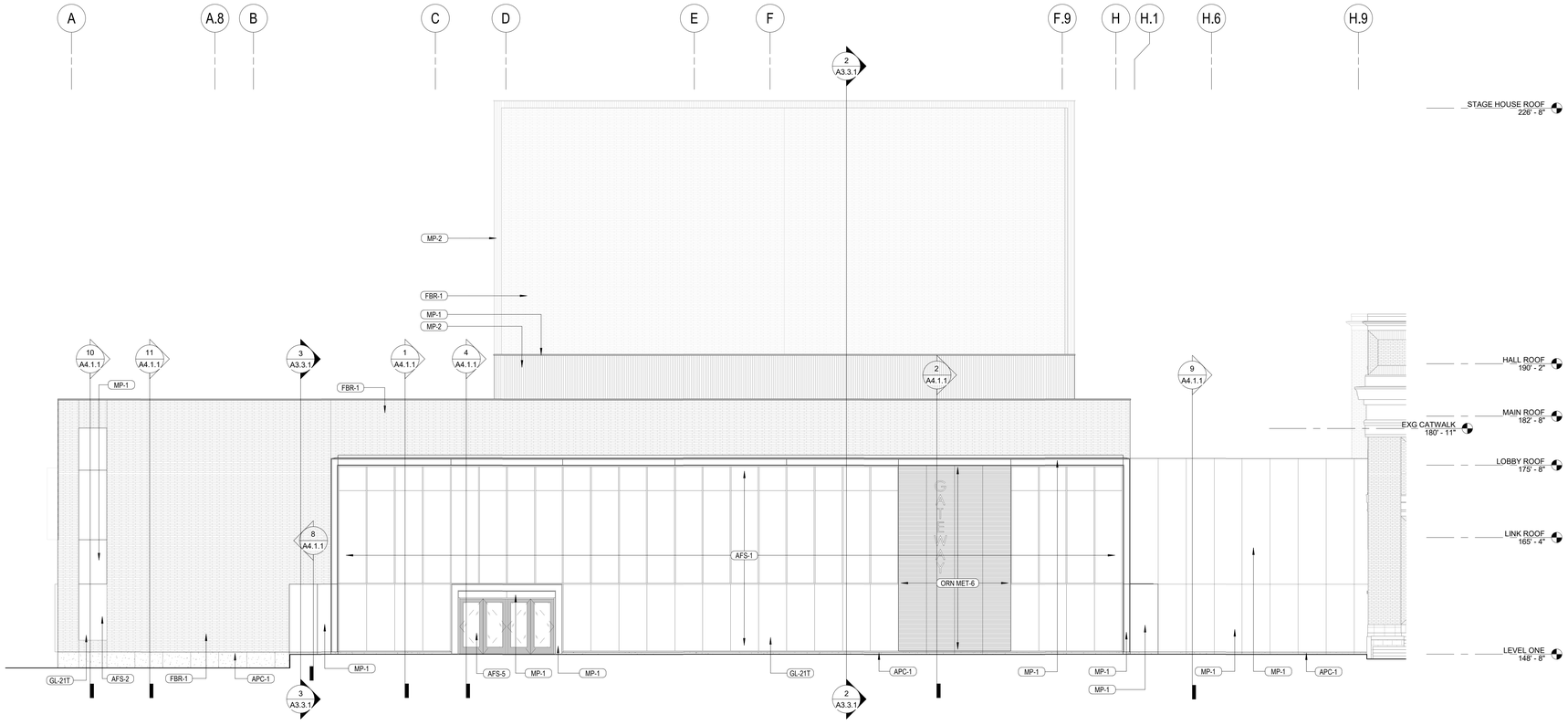
Signature:

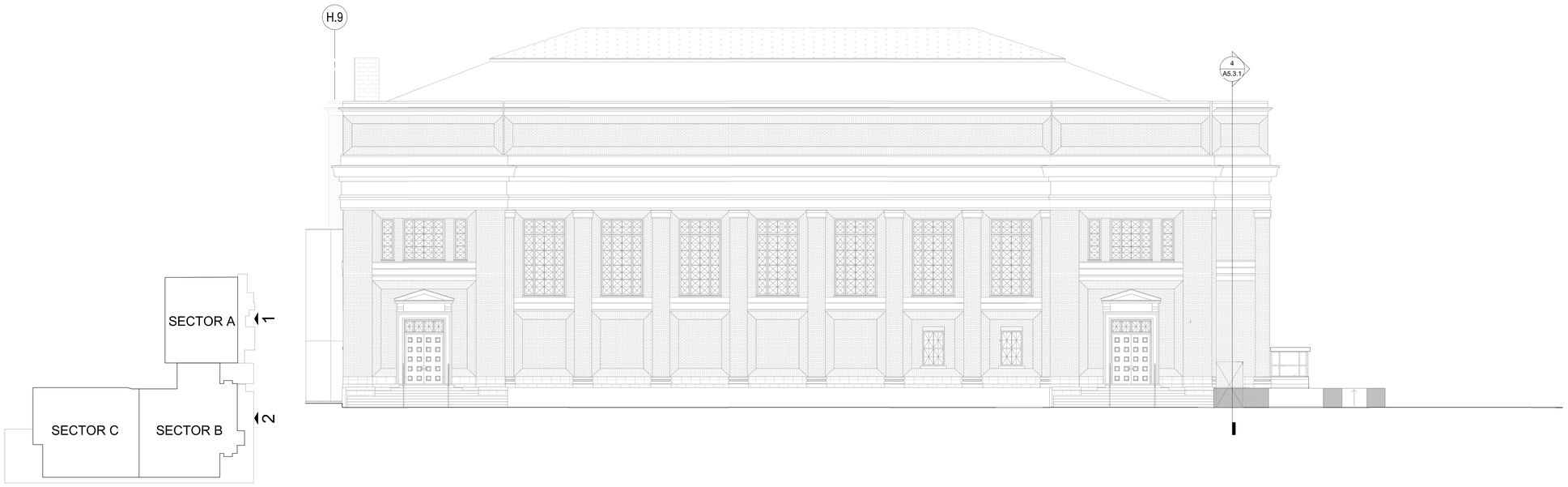
Drawing No:

# A3.1.4

Sheet Size: 30" x 42"
- Template Version




2 A201 EAST ELEVATION - SECTOR B
1/8" = 1'-0"




1 EAST ELEVATION - SECTOR A
1/8" = 1'-0"

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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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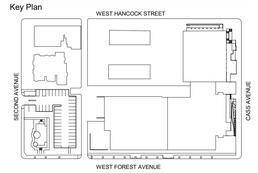
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## BUILDING ELEVATIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

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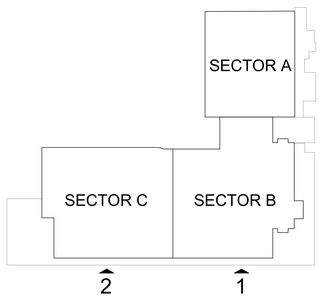
Signature:

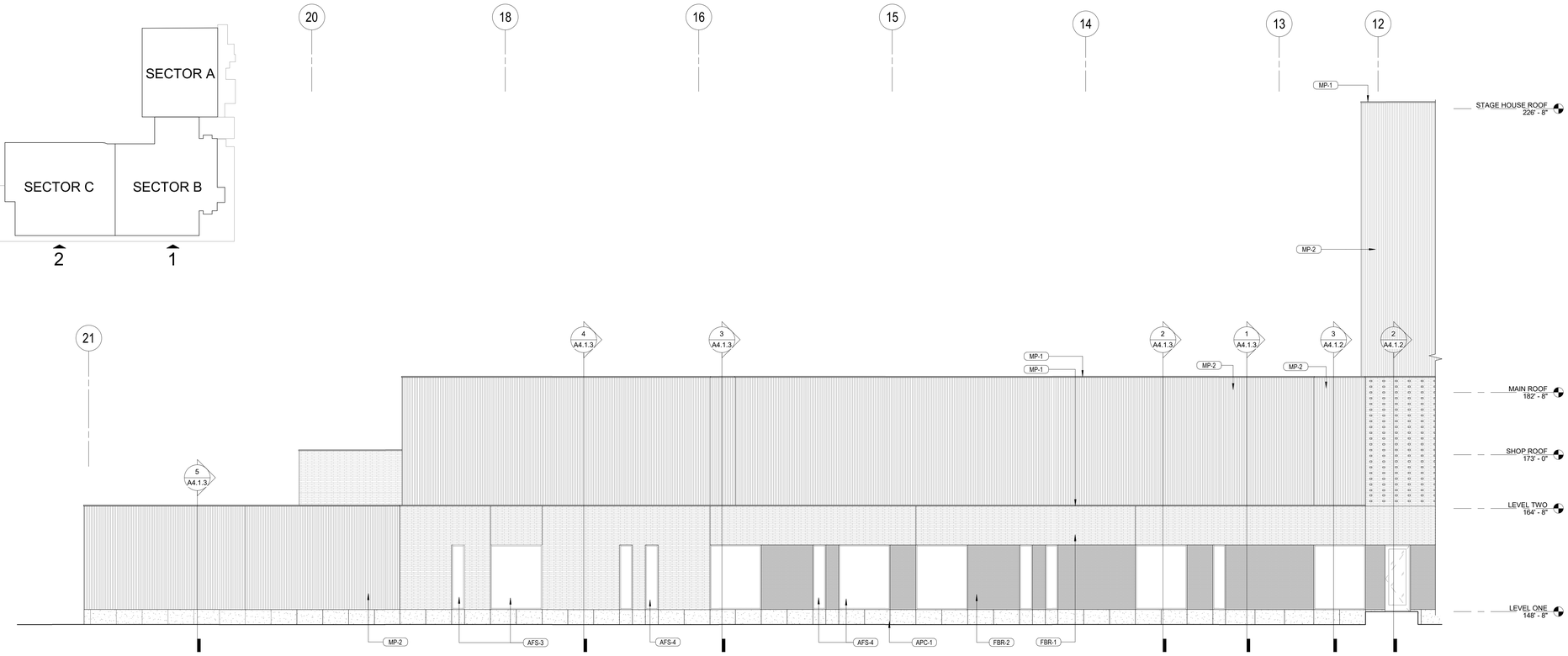
Drawing No:

# A3.1.5

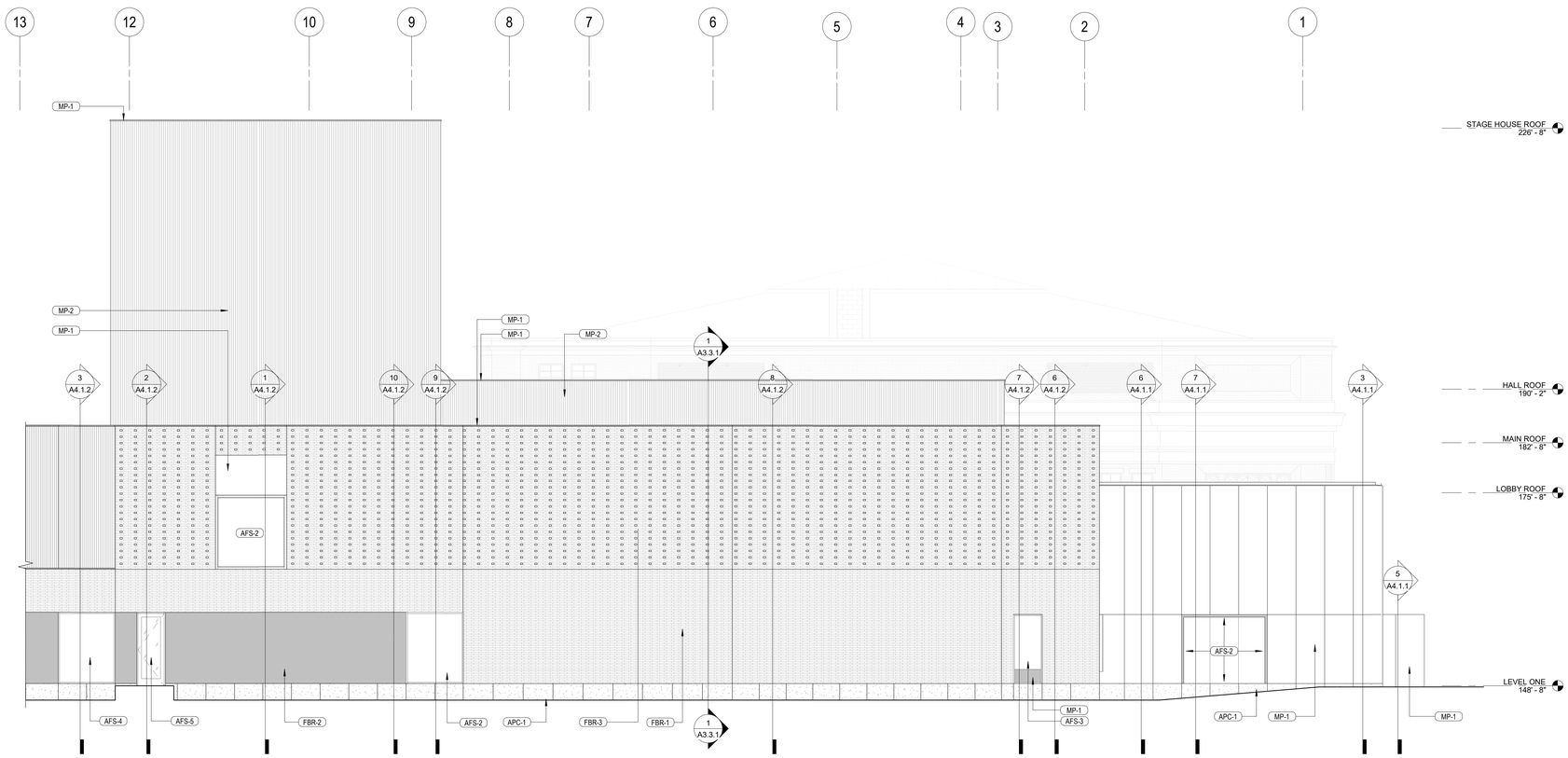
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/0.rvt

Sheet Size: 30" x 42"
- Template Version




2 A202 SOUTH ELEVATION - SECTOR C
1/8" = 1'-0"




1 A202 SOUTH ELEVATION - SECTOR B
1/8" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/0 .rvt

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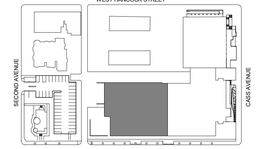
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## BUILDING ELEVATIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

A3.1.6

Sheet Size: 30" x 42"
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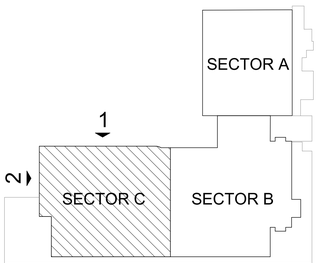
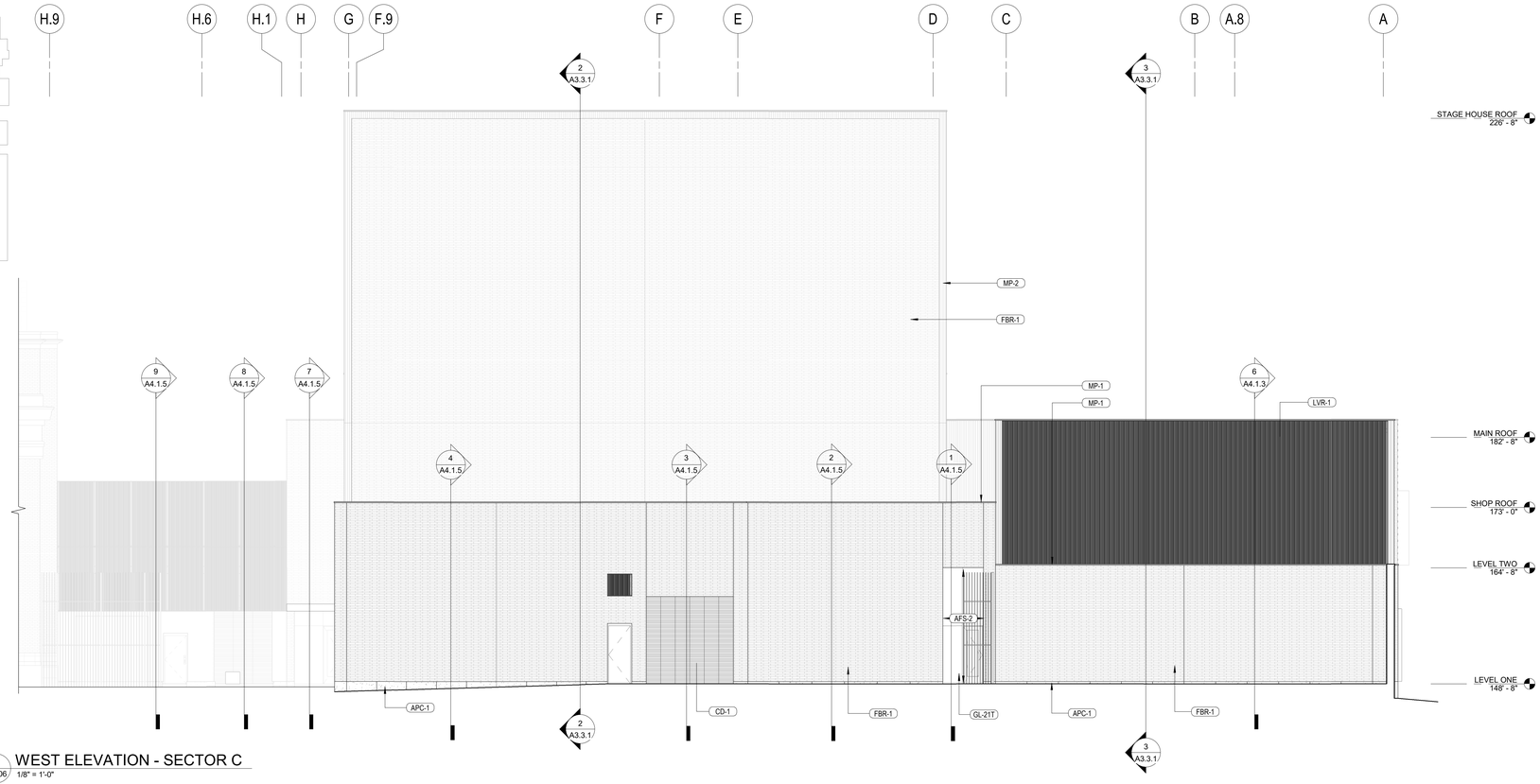
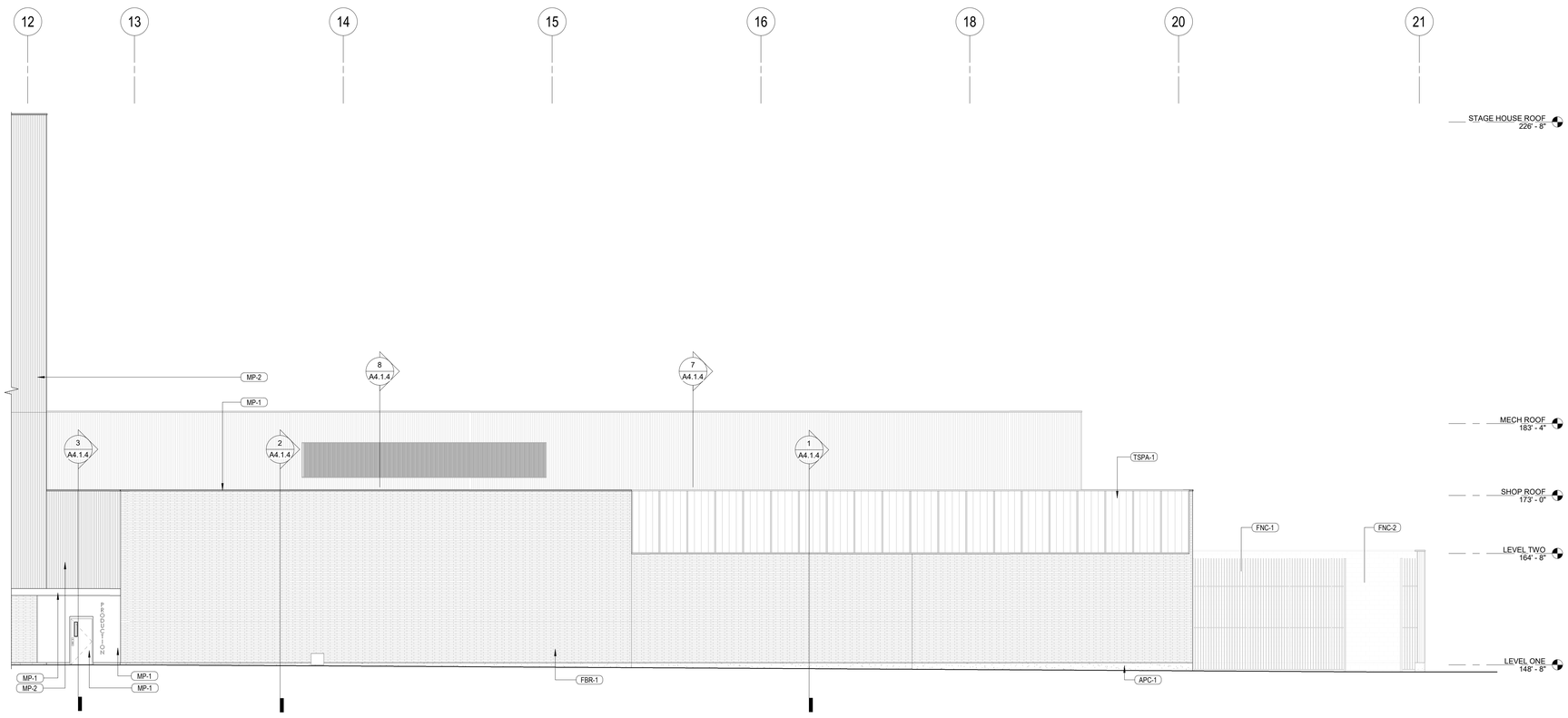



2 A206 WEST ELEVATION - SECTOR C
1/8" = 1'-0"




1 A202 NORTH ELEVATION - SECTOR C
1/8" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

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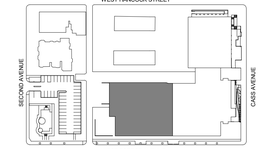
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# BUILDING ELEVATIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

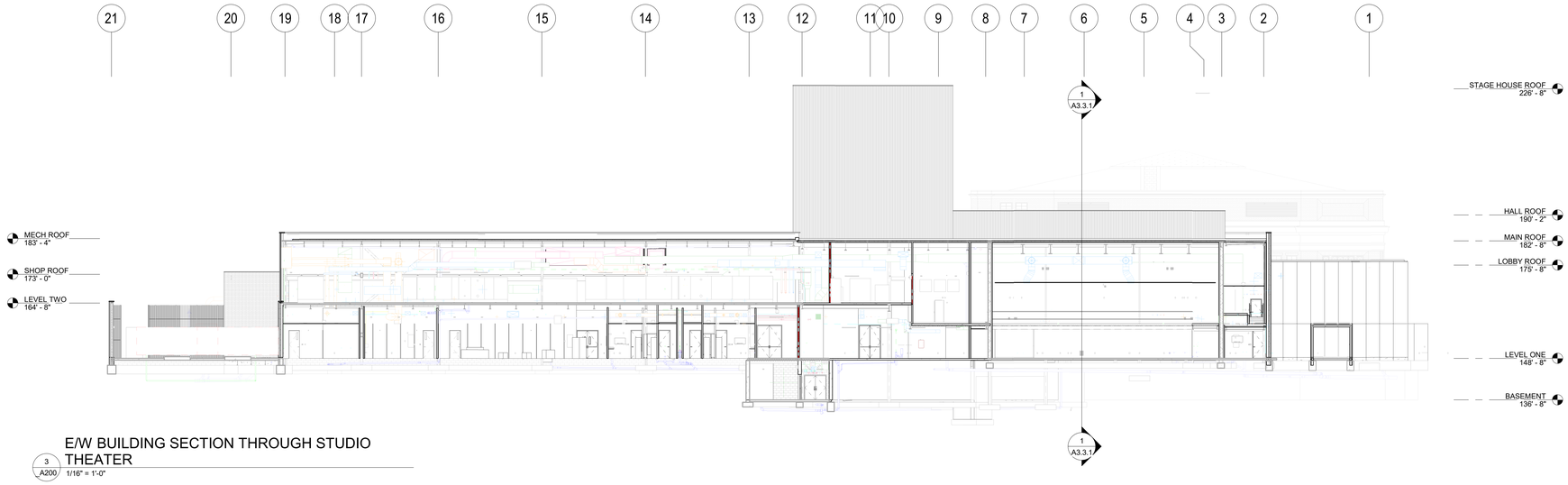
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

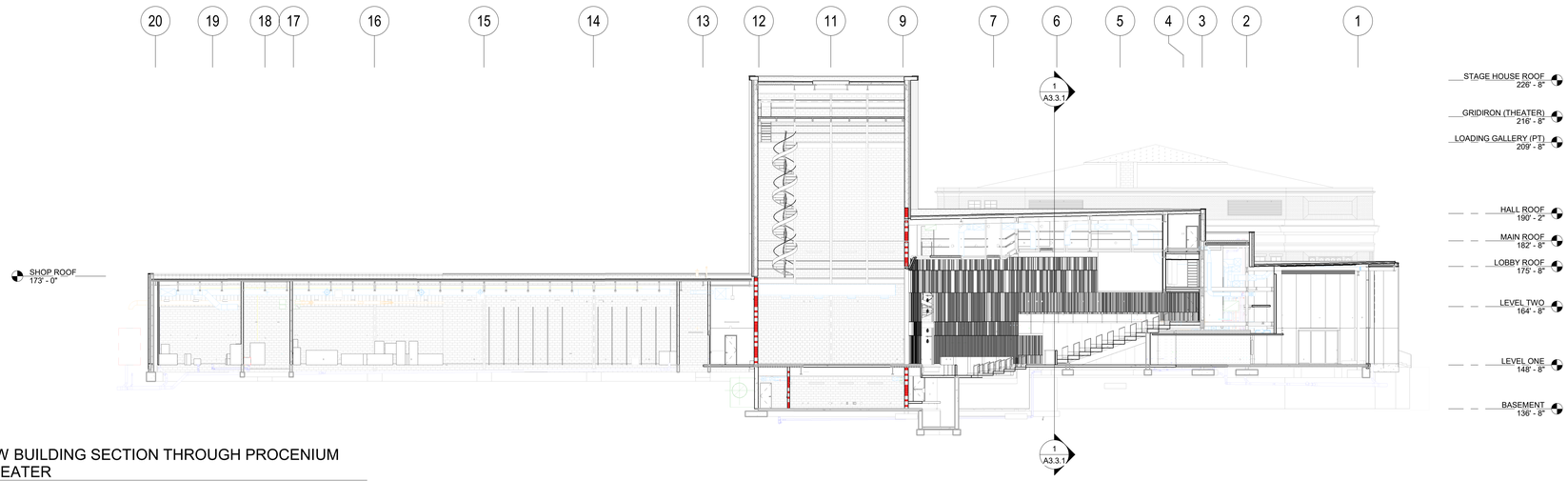
Drawing No:

# A3.1.7

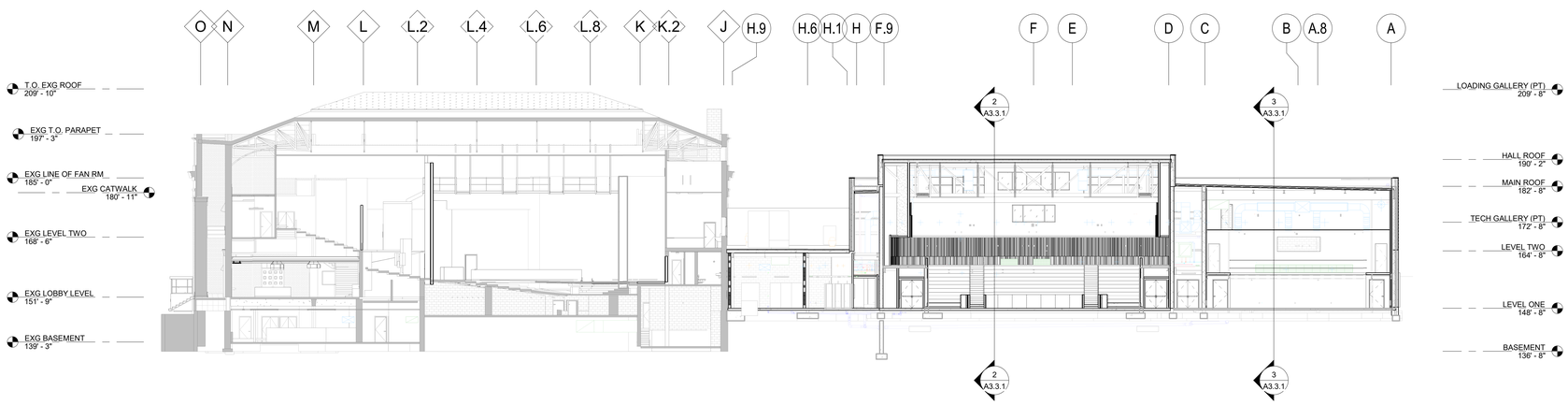
Sheet Size: 30" x 42"
- Template Version




3 A200 E/W BUILDING SECTION THROUGH STUDIO THEATER
1/16" = 1'-0"




2 A200 E/W BUILDING SECTION THROUGH PROCENIUM THEATER
1/16" = 1'-0"




1 A200 N/S BUILDING SECTION
1/16" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001 00.rvt

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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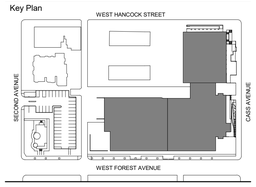
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## BUILDING SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/16" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

A3.3.1

Sheet Size: 30" x 42"
: Template Version

# EXTERIOR WALL - NAMING CONVENTION

**EW 0.0 X . #**

- OPTIONAL MODIFIER
- CLADDING MATERIAL
- WALL STRUCTURE + NOMINAL THICKNESS
- EXTERIOR WALL

**WALL STRUCTURE**
1: METAL STUD
2: WOOD STUD
3: CMU
4: CAST-IN-PLACE CONCRETE
5: STRUCTURAL PRECAST

**CLADDING MATERIAL**
A: BRICK VENEER
B: CMU
C: NATURAL STONE
D: CAST STONE
E: METAL COMPOSITE MATERIAL WALL PANELS
F: METAL PLATE WALL PANELS
G: METAL WALL PANELS
H: INSULATED METAL WALL PANELS
J: ULTRA HIGH PERFORMANCE CONCRETE SIDING
K: FIBER CEMENT SIDING
L: COMPOSITE SIDING

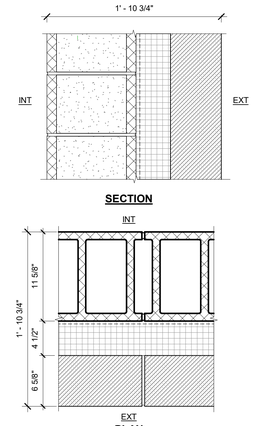
## EXTERIOR WALL NOTES

1. SEE LIFE SAFETY DRAWINGS FOR LOCATIONS OF FIRE RATED EXTERIOR WALLS

**MATERIALS FROM INTERIOR TO EXTERIOR**

CMU-1
AB-1
INSUL-26
APC-1

RATING:
UL #:
STC:



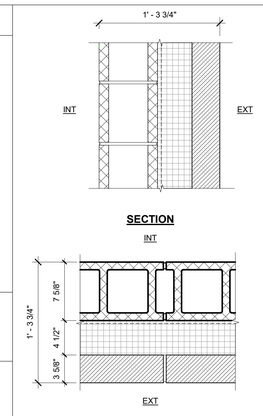

**EW3.12D**

**MATERIALS FROM INTERIOR TO EXTERIOR**

CMU-1
AB-1
INSUL-26
APC-1

*MODIFIERS
EW3.8D.1 - 1 3/8" INSULATION
EW3.8D.2 - 1 1/2" INSULATION
EW3.8D.4 - 3 1/2" INSULATION
EW3.8D.5 - 4 1/2" INSULATION
EW3.8D.6 - 5 1/2" INSULATION

RATING:
UL #:
STC:




**EW3.8D**

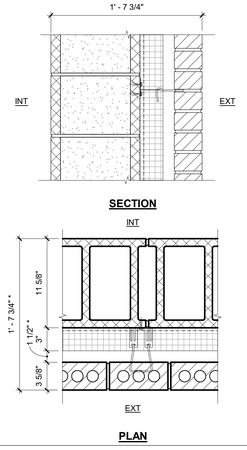
**MATERIALS FROM INTERIOR TO EXTERIOR**

CMU-1
AB-1
INSUL-26
FBR-1, FBR-2, FBR-3

REFER TO EXTERIOR ELEVATIONS FOR BRICK TYPE

*MODIFIERS
EW3.12A.2 - 1 1/2" AIR SPACE
EW3.12A.4 - 3 1/2" AIR SPACE
EW3.12A.5 - 4 1/2" AIR SPACE

RATING:
UL #:
STC:



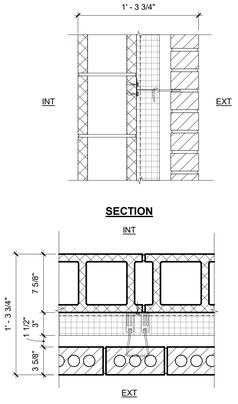

**EW3.12A**

**MATERIALS FROM INTERIOR TO EXTERIOR**

CMU-1
AB-1
INSUL-26
FBR-1, FBR-2, FBR-3

REFER TO EXTERIOR ELEVATIONS FOR BRICK TYPE

RATING:
UL #:
STC:




**EW3.8A**

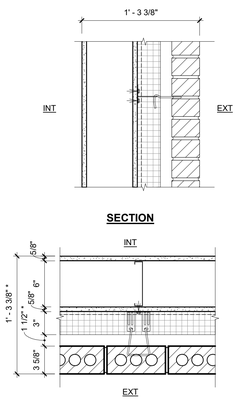
**MATERIALS FROM INTERIOR TO EXTERIOR**

GYP BD-1
STL STUD -1
GYP SHTG-1
AB-1
INSUL-26
FBR-1, FBR-2, FBR-3

REFER TO EXTERIOR ELEVATIONS FOR BRICK TYPE

*MODIFIERS
EW1.6A.2 - 1 1/2" AIR SPACE
EW1.6A.3 - 2 1/2" AIR SPACE
EW1.6A.5 - 4 1/2" AIR SPACE

RATING:
UL #:
STC:

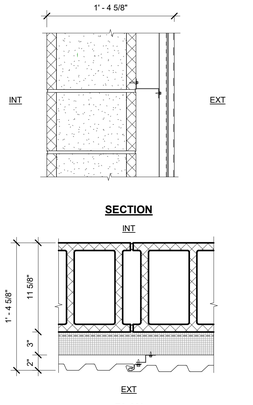



**EW1.6A**

**MATERIALS FROM INTERIOR TO EXTERIOR**

CMU-1
AB-1
INSUL-26
STL FURG-2
MP-2 ( PROFILE VARIES)

RATING:
UL #:
STC:

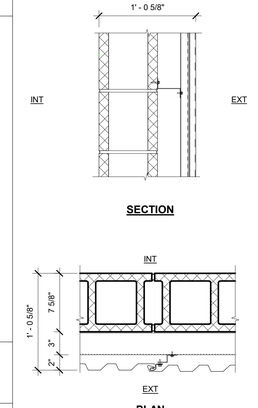



**EW3.12G**

**MATERIALS FROM INTERIOR TO EXTERIOR**

CMU-1
STL FURG-2
MP-2 ( PROFILE VARIES)

RATING:
UL #:
STC:

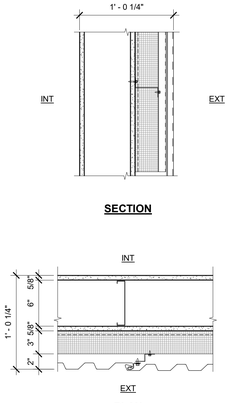



**EW3.6G**

**MATERIALS FROM INTERIOR TO EXTERIOR**

GYP BD-1
STL STUD -1
GYP SHTG-1
AB-1
INSUL-26
STL FURG-2
MP-2 ( PROFILE VARIES)

RATING:
UL #:
STC:



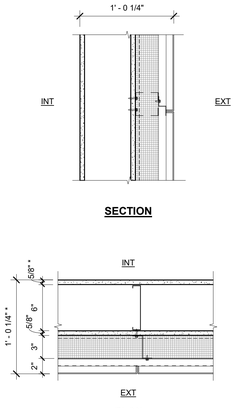

**EW1.6G**

**MATERIALS FROM INTERIOR TO EXTERIOR**

GYP BD-1
STL STUD -1
GYP SHTG-1
AB-1
INSUL-26
STL FURG-2
MP-1

*MODIFIERS
EW1.6F.2 - MP-1 INTERIOR FINISH

RATING:
UL #:
STC:



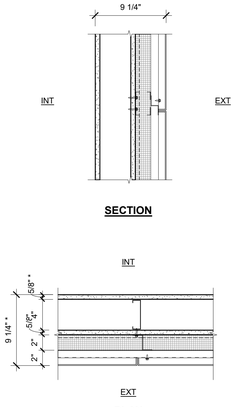

**EW1.6F**

**MATERIALS FROM INTERIOR TO EXTERIOR**

GYP BD-1
STL STUD -1
GYP SHTG-1
AB-1
INSUL-26
STL FURG-2
MP-1

*MODIFIERS
EW1.4F.2 - MP-1 INTERIOR FINISH

RATING:
UL #:
STC:




**EW1.4F**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| | |
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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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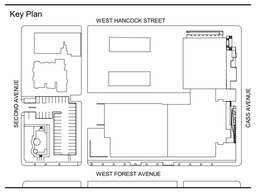
DETROIT, MI


Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## EXTERIOR WALL TYPES

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

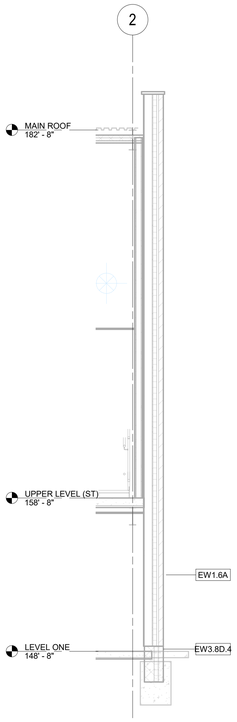
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

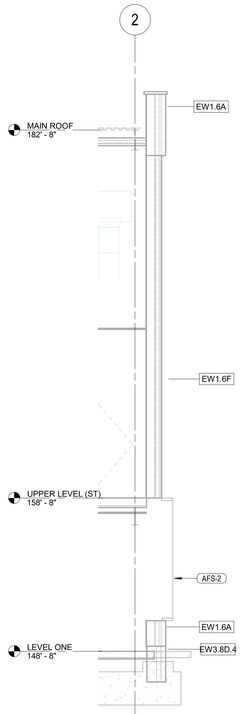
Drawing No:
# A4.0.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

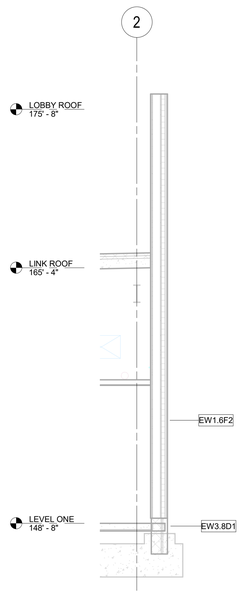
Sheet Size: 30" x 42"
- Template Version



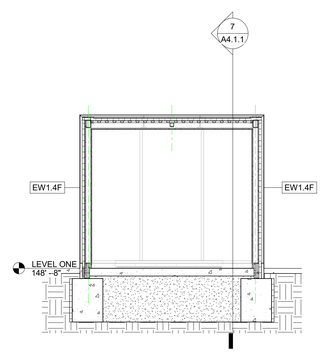

11 SECTION AT TYPICAL BRICK W/ STUD
1/4" = 1'-0"



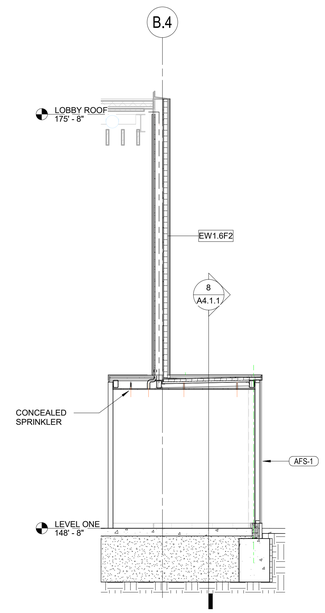

10 SECTION AT SE CORNER WINDOW
1/4" = 1'-0"



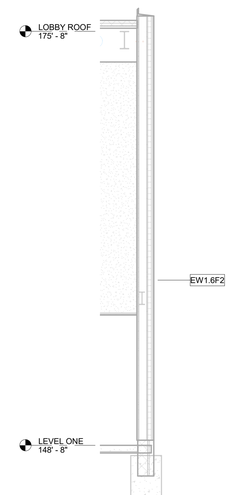

9 SECTION AT EAST LINK WALL
1/4" = 1'-0"



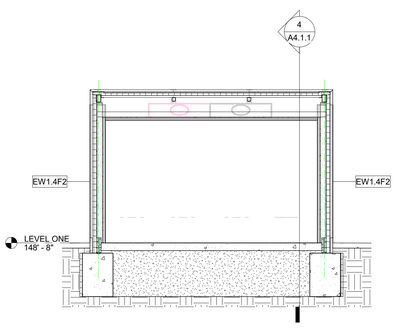

8 SECTION AT STUDY SPACE
1/4" = 1'-0"



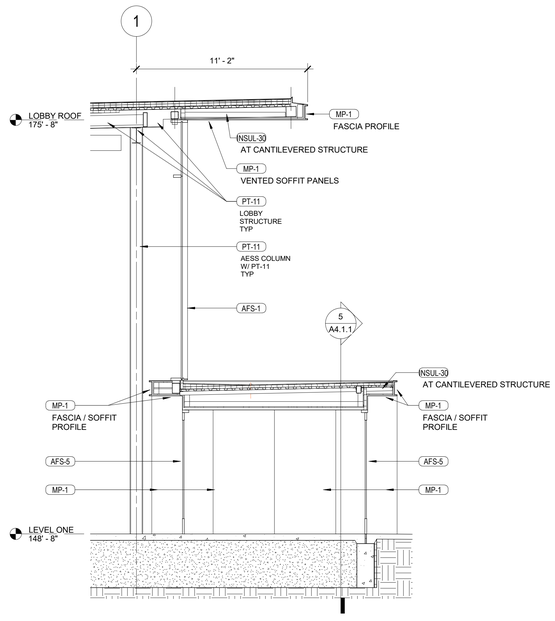

7 SECTION AT STUDY SPACE
1/4" = 1'-0"



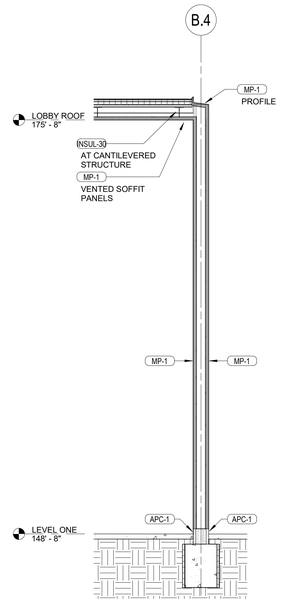

6 SECTION AT SOUTH LOBBY WALL
1/4" = 1'-0"



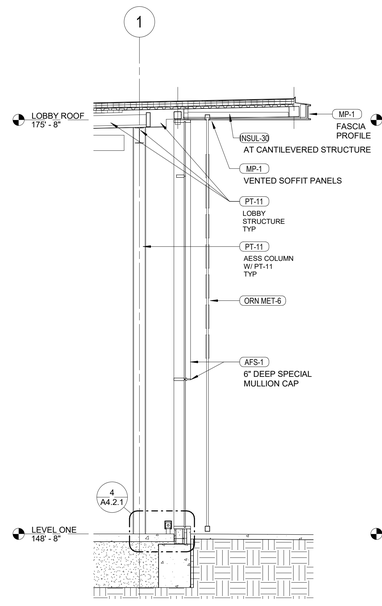

5 SECTION AT LOBBY VESTIBULE
1/4" = 1'-0"



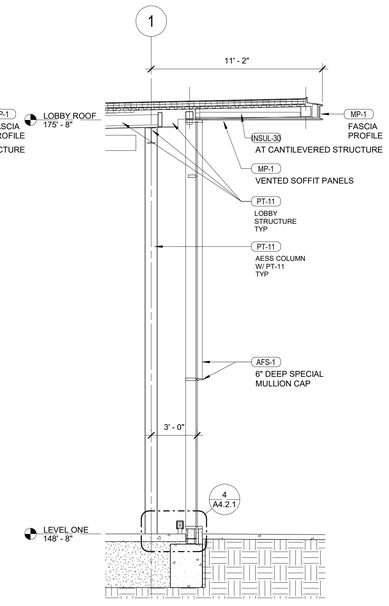

4 SECTION AT LOBBY VESTIBULE
1/4" = 1'-0"




3 SECTION AT LOBBY END WALL
1/4" = 1'-0"




2 SECTION AT SIGNAGE WALL
1/4" = 1'-0"




1 SECTION AT TYP LOBBY CURTAIN WALL
1/4" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

HamiltonAnderson
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HGA

WAYNE STATE UNIVERSITY

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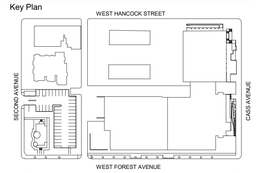
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## WALL SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

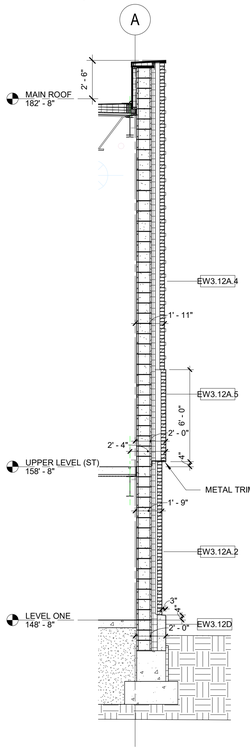
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

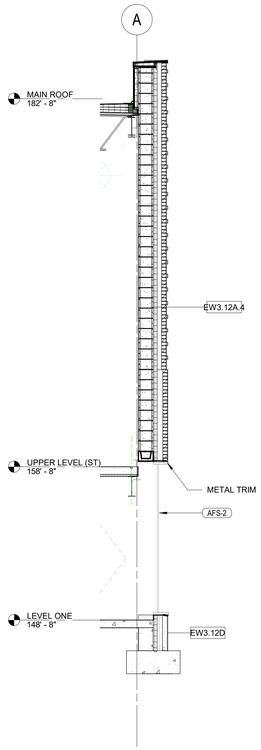
Signature:

Drawing No:
# A4.1.1

Sheet Size: 30" x 42"
- Template Version




10 SECTION
1/4" = 1'-0"

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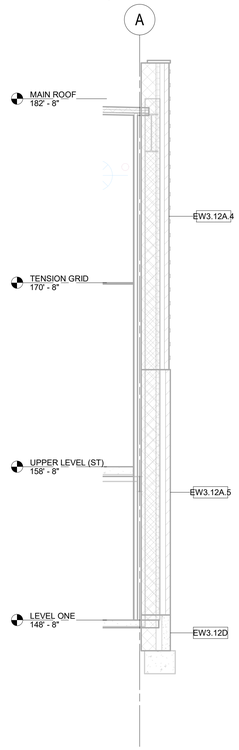
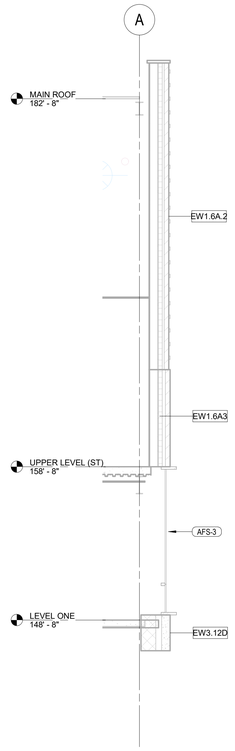
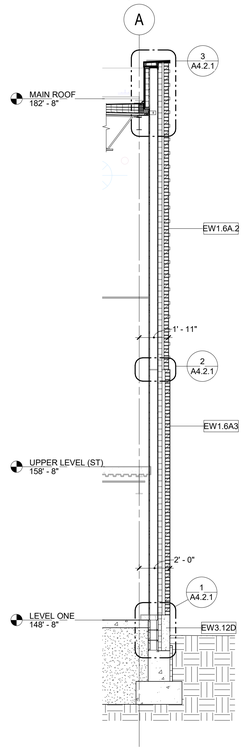
1/4" = 1'-0"



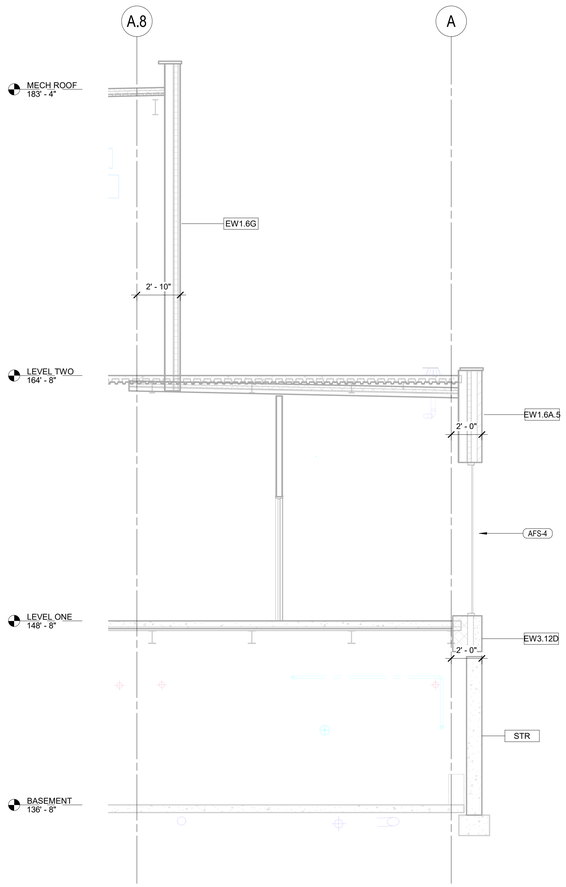

8 SECTION
1/4" = 1'-0"



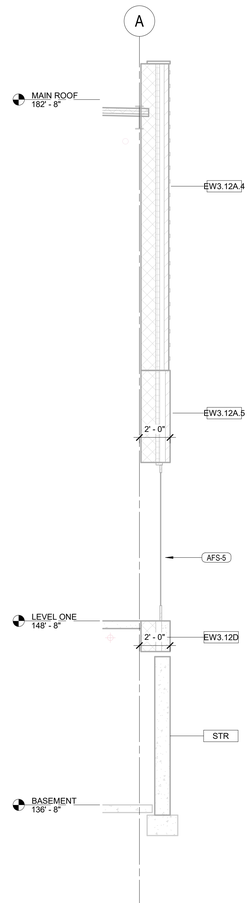

7 SECTION
1/4" = 1'-0"




6 SECTION
1/4" = 1'-0"




3 SECTION
1/4" = 1'-0"

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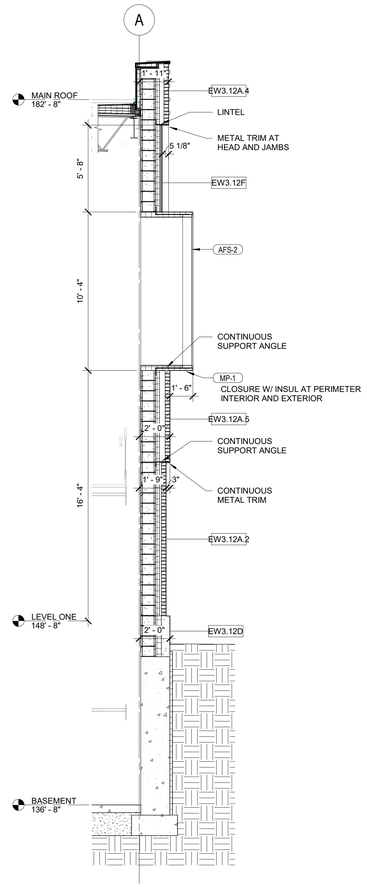
1/4" = 1'-0"




1 SECTION
1/4" = 1'-0"

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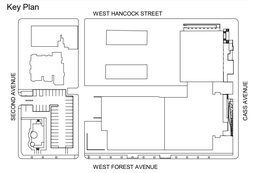
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## WALL SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A4.1.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

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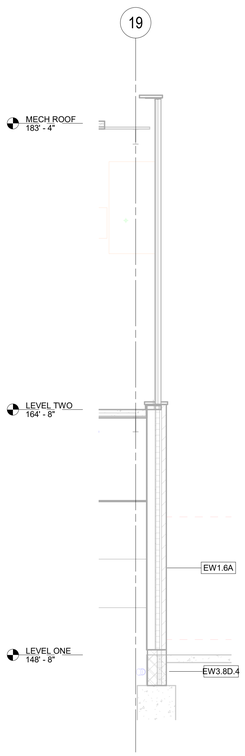
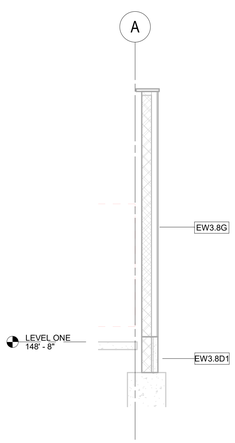
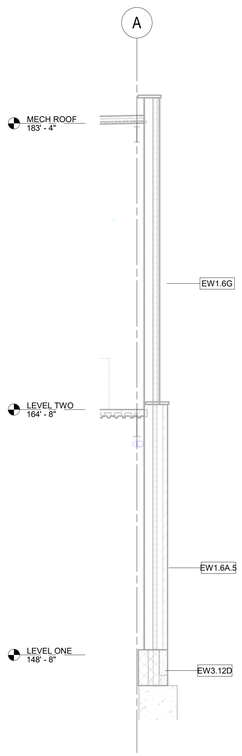
- Template Version



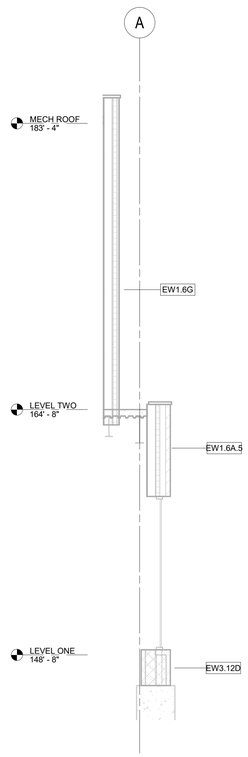

6 SECTION
1/4" = 1'-0"



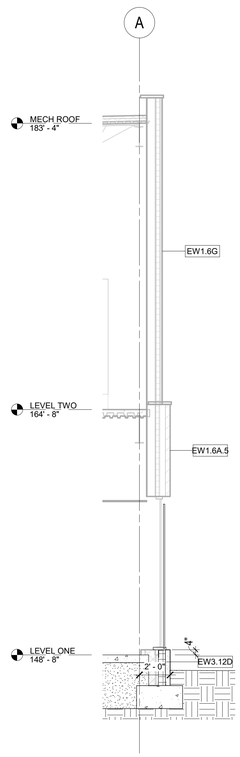

5 SECTION
1/4" = 1'-0"




4 SECTION
1/4" = 1'-0"




3 SECTION
1/4" = 1'-0"




2 SECTION
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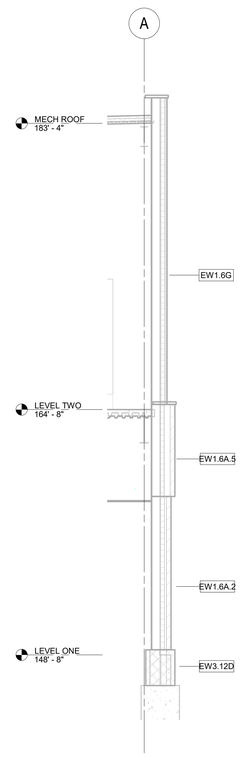


1 SECTION
1/4" = 1'-0"

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WAYNE STATE UNIVERSITY

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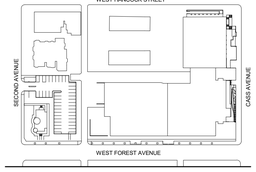
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## WALL SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

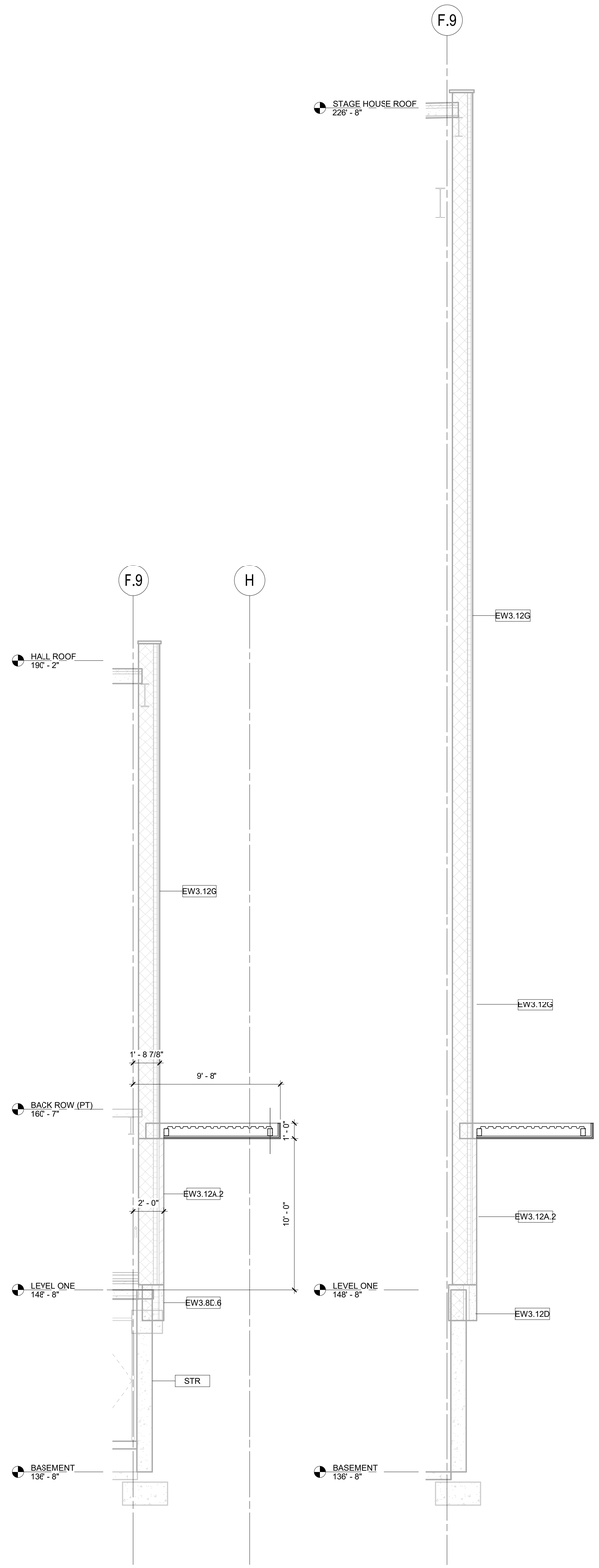
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

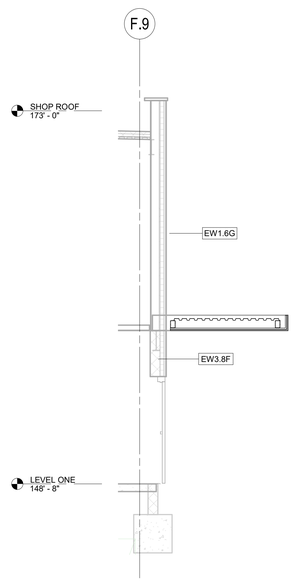
# A4.1.3

Sheet Size: 30" x 42"
- Template Version




5 SECTION
1/4" = 1'-0"

4 SECTION
1/4" = 1'-0"

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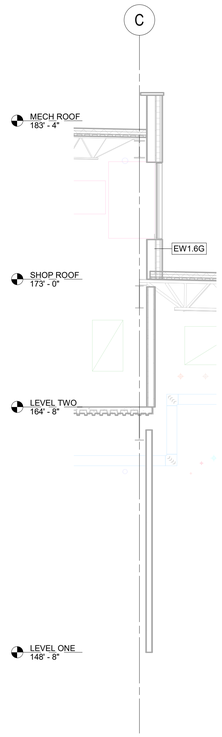


8 SECTION
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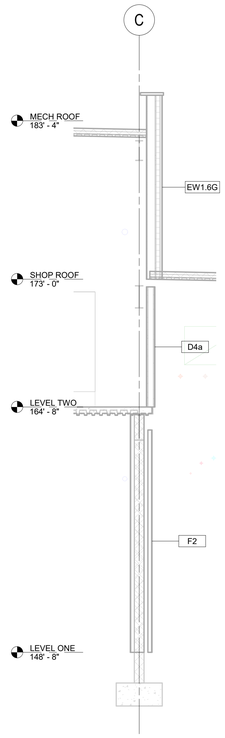
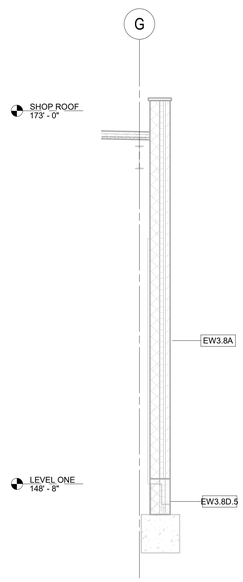



7 SECTION
1/4" = 1'-0"

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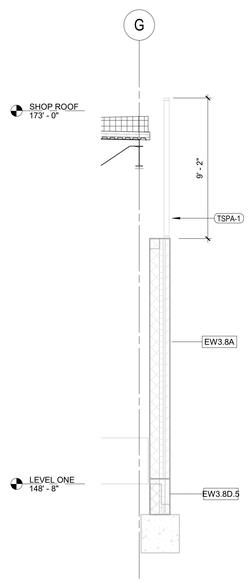


1 SECTION
1/4" = 1'-0"

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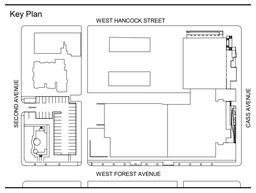
DETROIT, MI

Key Plan




| | |
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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## WALL SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A4.1.4

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

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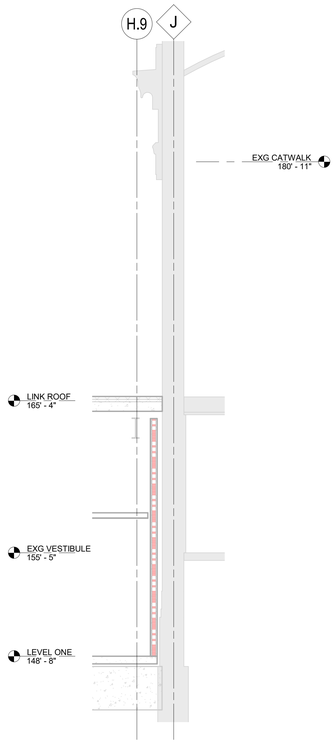
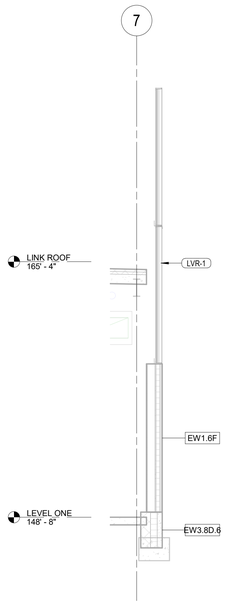
- Template Version




10 SECTION
1/4" = 1'-0"

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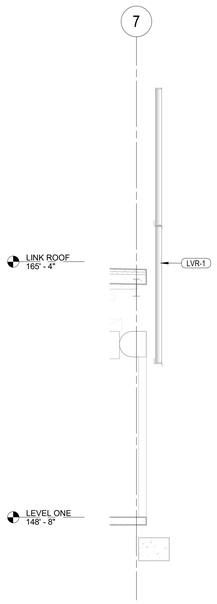
1/4" = 1'-0"

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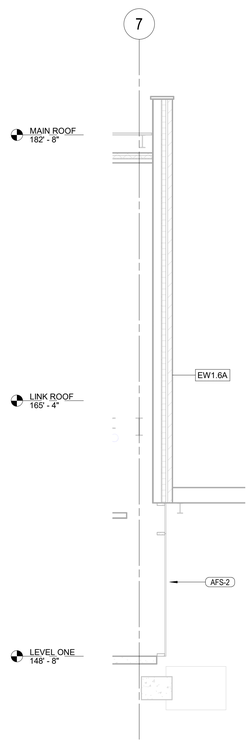
1/4" = 1'-0"

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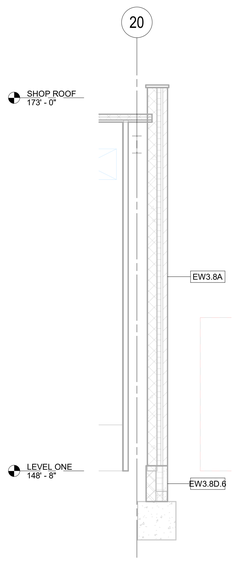
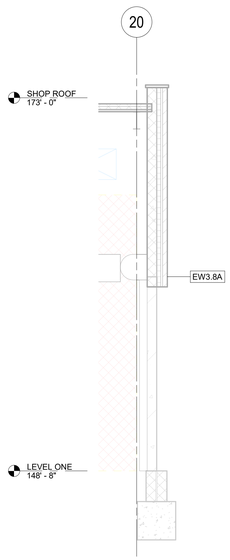
1/4" = 1'-0"




4 SECTION
1/4" = 1'-0"




3 SECTION
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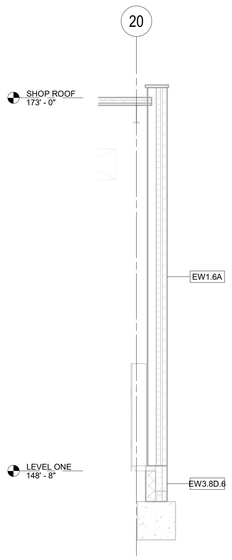


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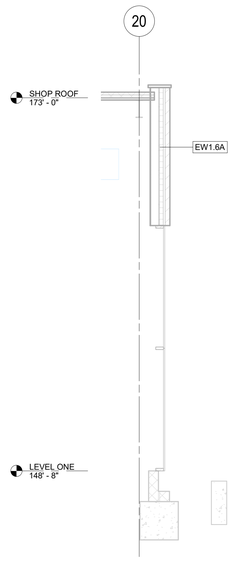


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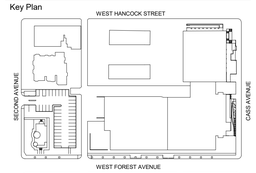
DETROIT, MI

Key Plan




| | |
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Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# WALL SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

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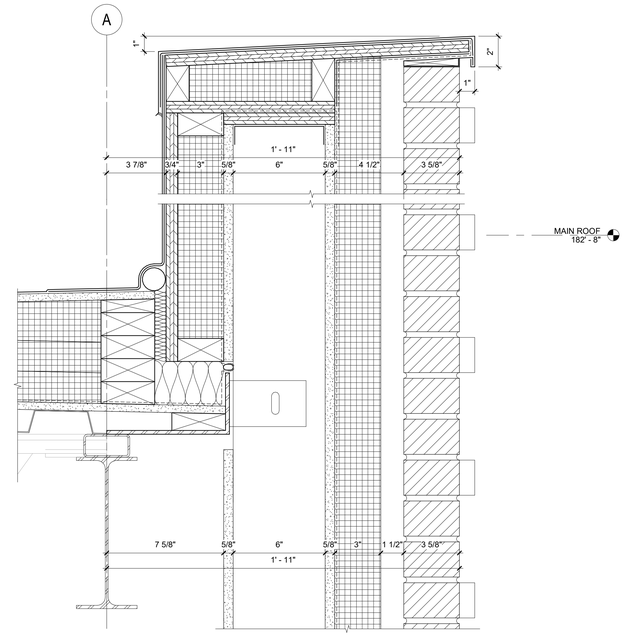
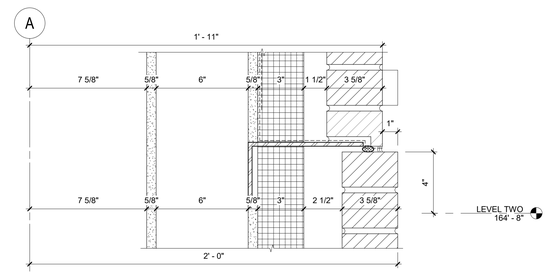
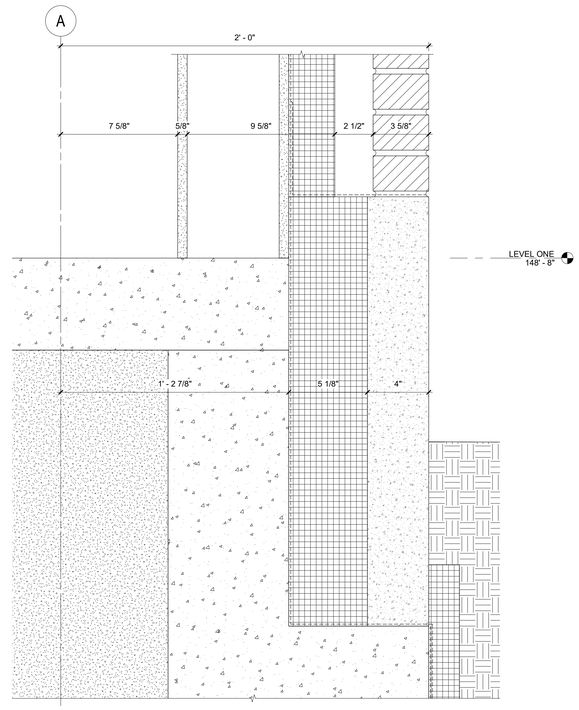


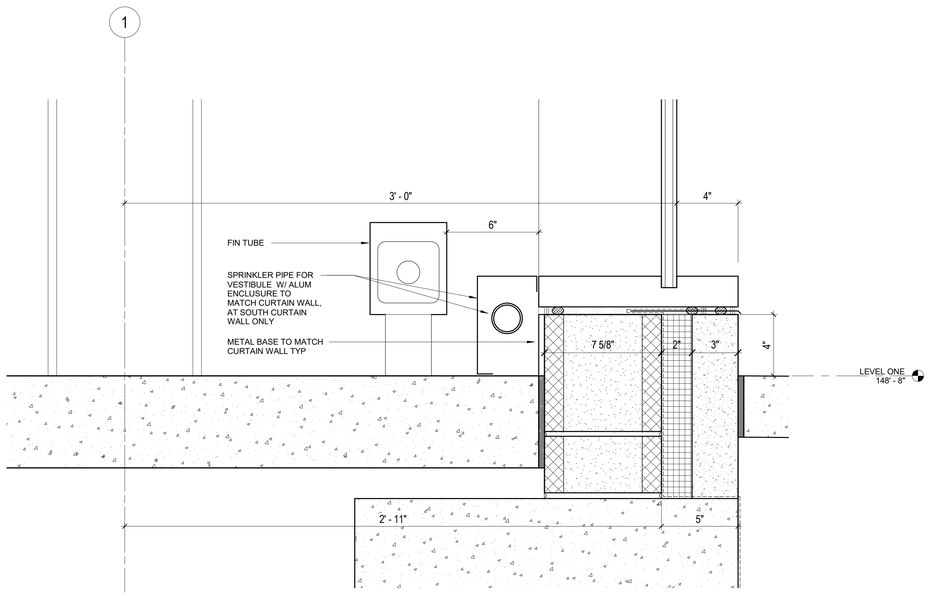

3 BRICK PARAPET
3" = 1'-0"




2 BRICK TRANSITION
3" = 1'-0"




1 PRECAST BASE AT BRICK WALL
3" = 1'-0"




4 CURTAIN WALL BASE AT LOBBY
3" = 1'-0"

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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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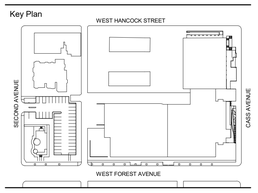
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## SECTION DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 3" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

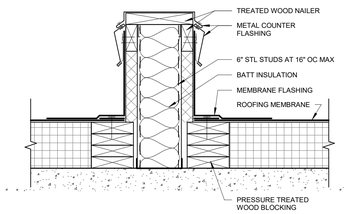
Signature:

Drawing No:

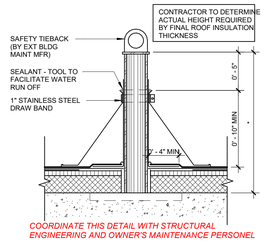
# A4.2.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

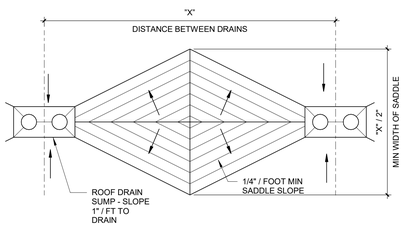
Sheet Size: 30" x 42"
- Template Version



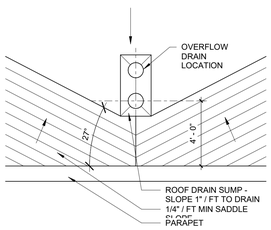

12 AREA DIVIDER
1 1/2" = 1'-0"



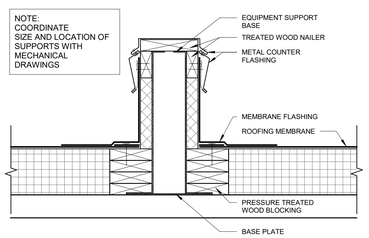

10 SAFETY TIEBACK
1 1/2" = 1'-0"



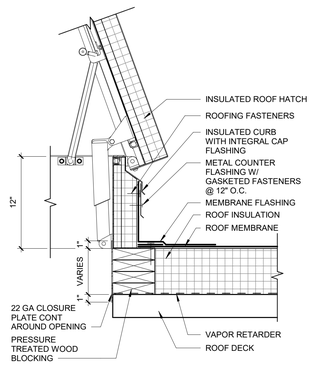

11 SADDLE LAYOUT PLAN
1/4" = 1'-0"



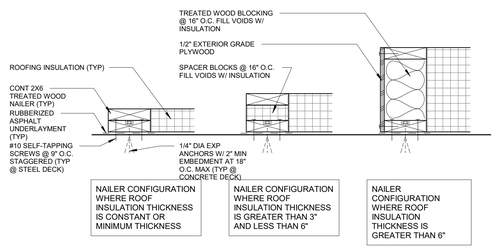

9 SADDLE AT PARAPET
1/4" = 1'-0"



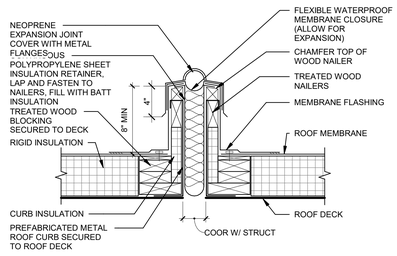

6 EQUIPMENT SUPPORT
1 1/2" = 1'-0"



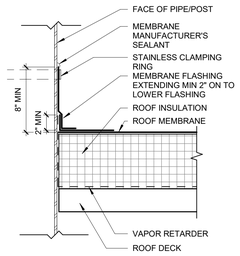

3 ROOF HATCH
1 1/2" = 1'-0"



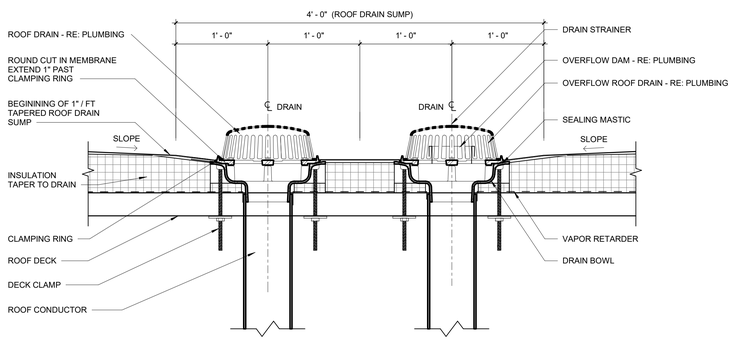

8 TYP WOOD BLOCKING CONFIGURATIONS
1 1/2" = 1'-0"



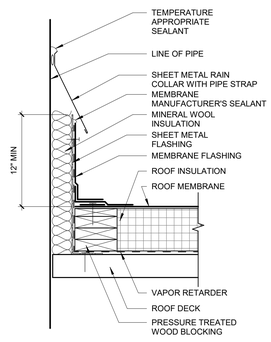

5 ROOF EXPANSION JOINT
1 1/2" = 1'-0"



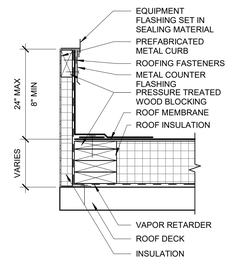

2 ROOF PENETRATION FLASHING
1 1/2" = 1'-0"




7 ROOF DRAIN & OVERFLOW DRAIN
1 1/2" = 1'-0"




4 HOT PIPE PENETRATION
1 1/2" = 1'-0"




1 ROOF CURB
1 1/2" = 1'-0"

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|---|---|
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| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## ROOF DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

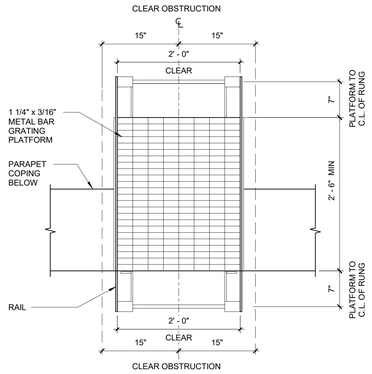
Signature:

Drawing No:

# A4.4.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

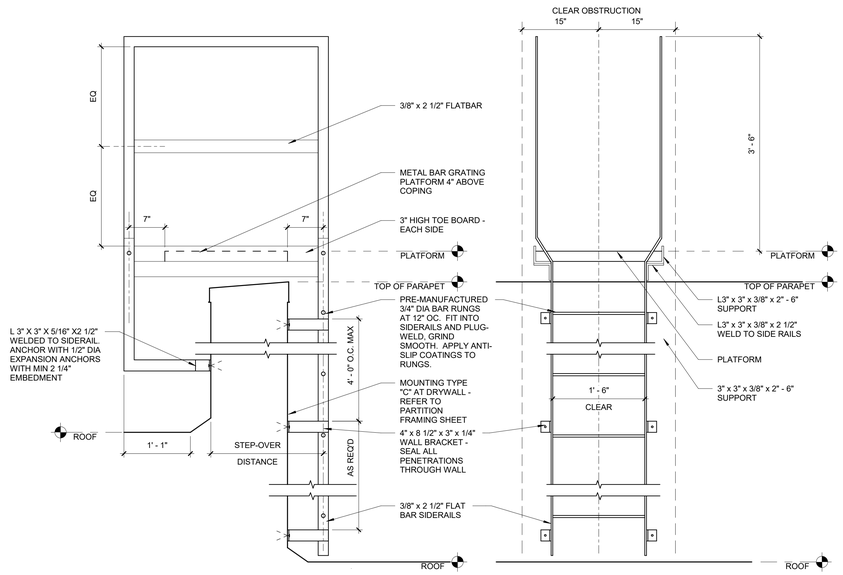
Sheet Size: 30" x 42"
- Template Version




GENERAL LADDER NOTES:

1. USE 1/2" DIA EXP ANCHOR WITH 2 1/4" MIN EMBED AT CONC AND CMU WALLS.
2. SHOP PRIME AND PAINT FINISH.

PLAN




SIDE ELEVATION

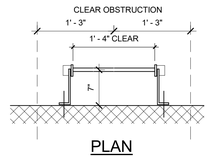
FINISH AFTER FABRICATION: SHOP PRIMER PAINT

FRONT ELEVATION

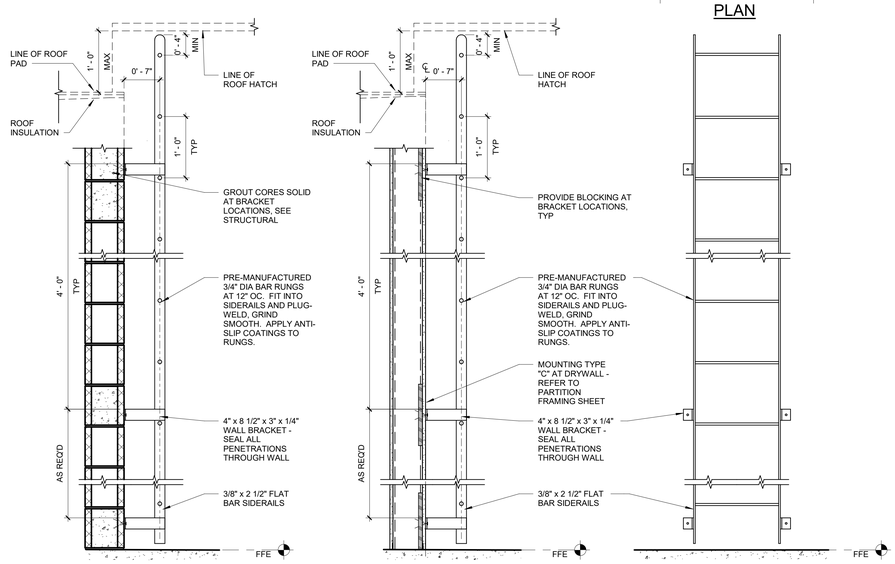
2 ELEVATION - ROOF LADDER
1" = 1'-0"

GENERAL LADDER NOTES:

1. USE 1/2" DIA EXP ANCHOR WITH 2 1/4" MIN EMBED AT CONC AND CMU WALLS.
2. USE 2 1/4" SELF DRILLING SELF TAPPING SCREWS AT DRYWALL.
3. SHOP PRIME AND PAINT FINISH.




PLAN




SIDE ELEVATION- CMU WALL

SIDE ELEVATION- MTL STUD WALL

FINISH AFTER FABRICATION: SHOP PRIMER PAINT

FRONT ELEVATION

1 ELEVATION - ROOF LADDER
1" = 1'-0"

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WAYNE STATE UNIVERSITY

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|---|---|
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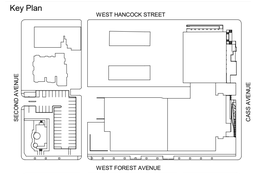
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MISC. ROOF DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A4.4.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version

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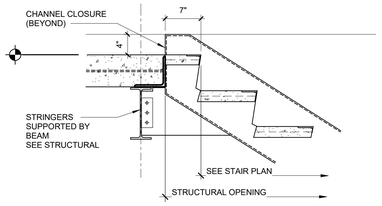
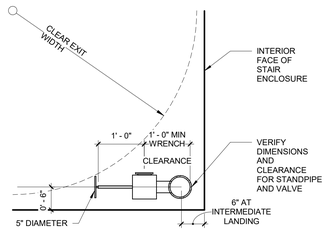
architecture landscape architecture urban design

HGA

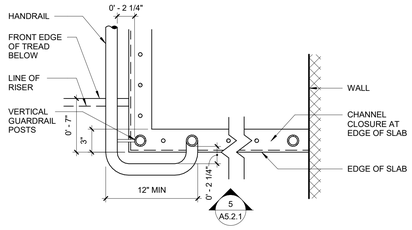
WAYNE STATE UNIVERSITY



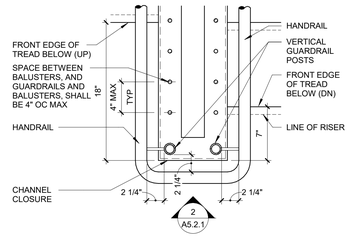

12 DETAIL - LANDING AT FLOOR SLAB
1" = 1'-0"



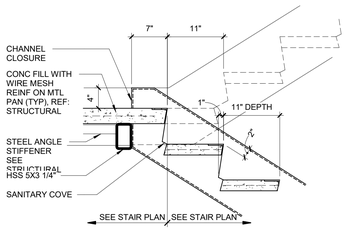

9 DETAIL - STANDPIPE, TYP
3/4" = 1'-0"



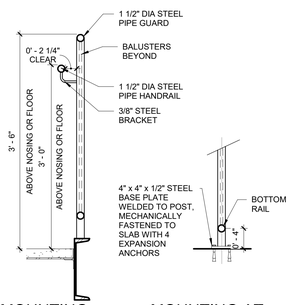

PLAN DETAIL - HANDRAIL AND GUARD, TOP LANDING
6 1 1/2" = 1'-0"



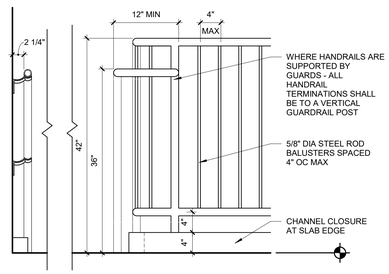

3 PLAN DETAIL - HANDRAIL AND GUARD
1 1/2" = 1'-0"



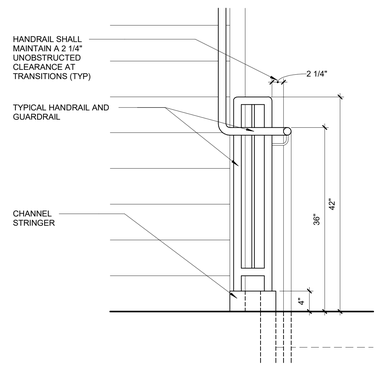

11 DETAIL - INTERMEDIATE LANDING
1" = 1'-0"



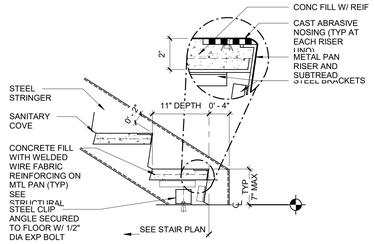

8 DETAIL - HANDRAIL AND GUARD MOUNT
1" = 1'-0"



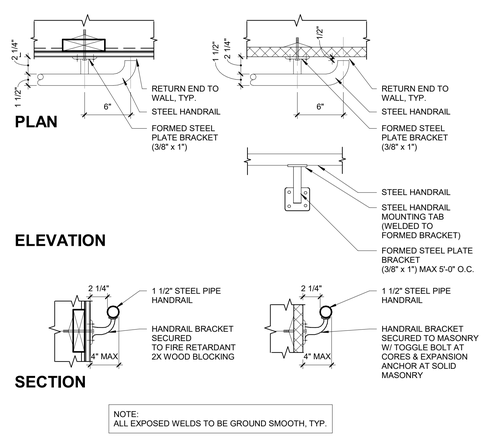

5 ELEVATION - HANDRAIL AND GUARD, TOP LANDING
1" = 1'-0"



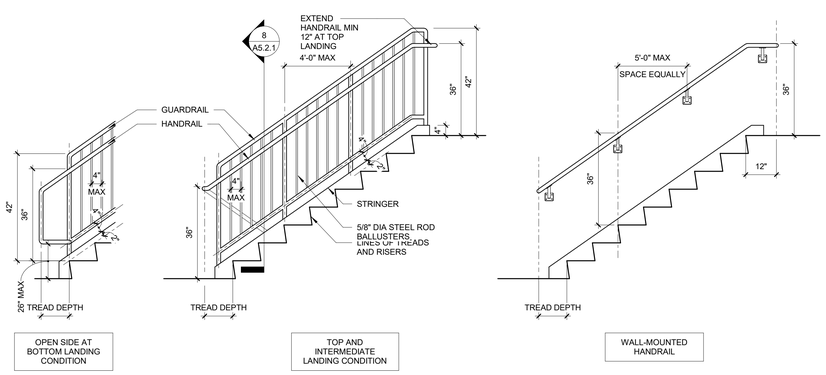

2 ELEVATION - STAIR RAILING AT TRANSITION
1" = 1'-0"



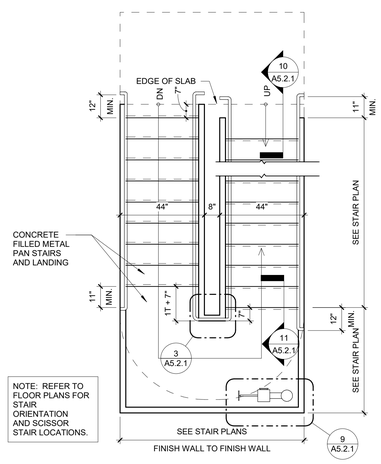

10 DETAIL - STRINGER TO SLAB CONNECTION
1" = 1'-0"




4 DETAIL - WALL-MOUNTED HANDRAIL
1 1/2" = 1'-0"




7 ELEVATION - RAILING EXTENSIONS, TYP
1/2" = 1'-0"




1 PLAN DETAIL - STAIR LAYOUT, TYP
3/8" = 1'-0"

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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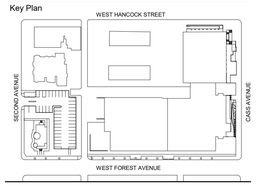
| DETROIT, MI | |

Key Plan




| | |
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Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
## STAIR DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

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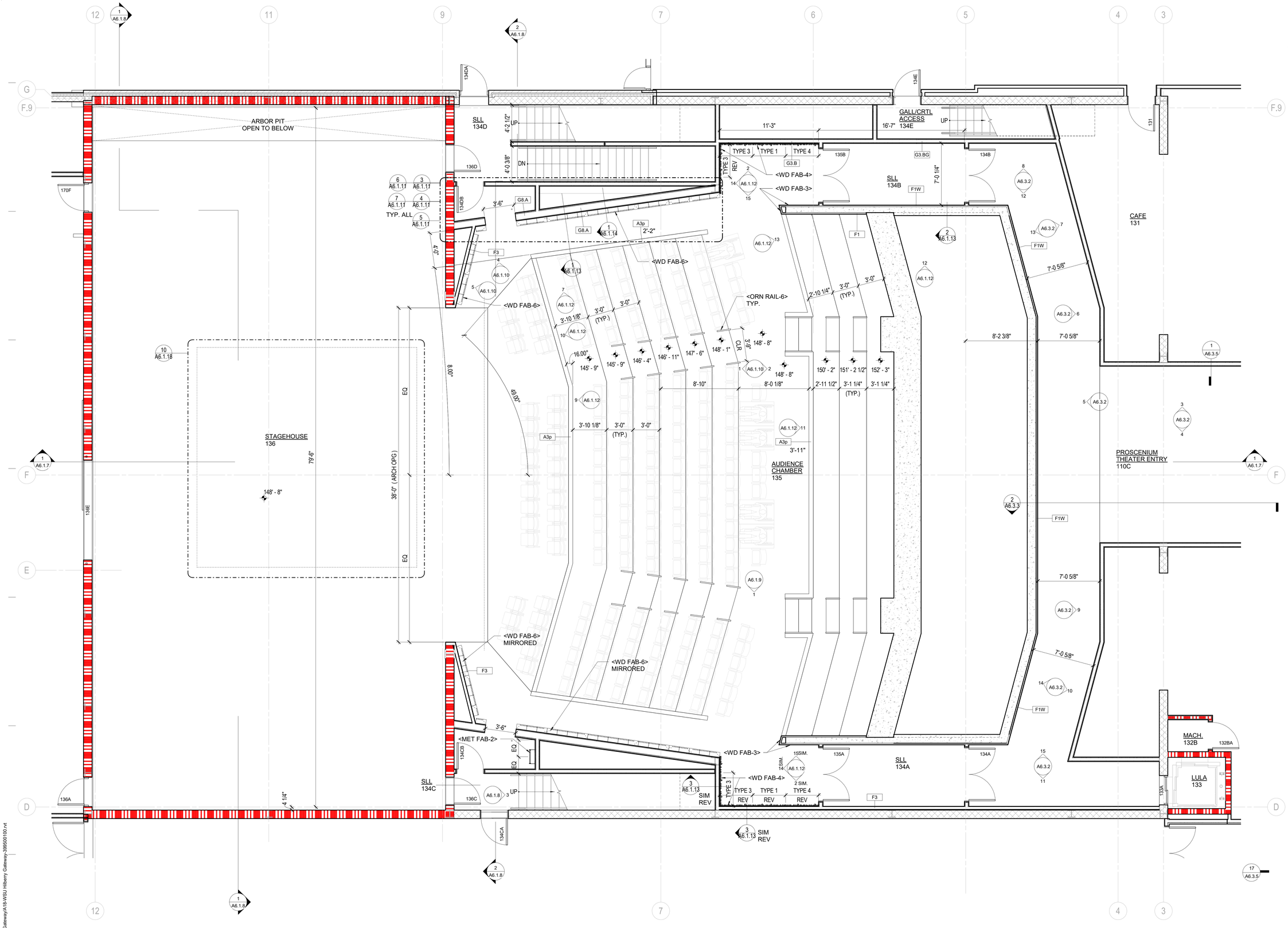
Sheet Size: 30" x 42"
- Template Version




1 PROSCENIUM THEATER - ENLARGED FLOOR PLAN LEVEL ONE / STAGE
1/4" = 1'-0"

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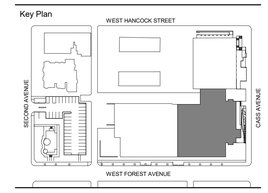
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
ENLARGED PLANS - PROSCENIUM THEATER LEVEL ONE

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
A6.1.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

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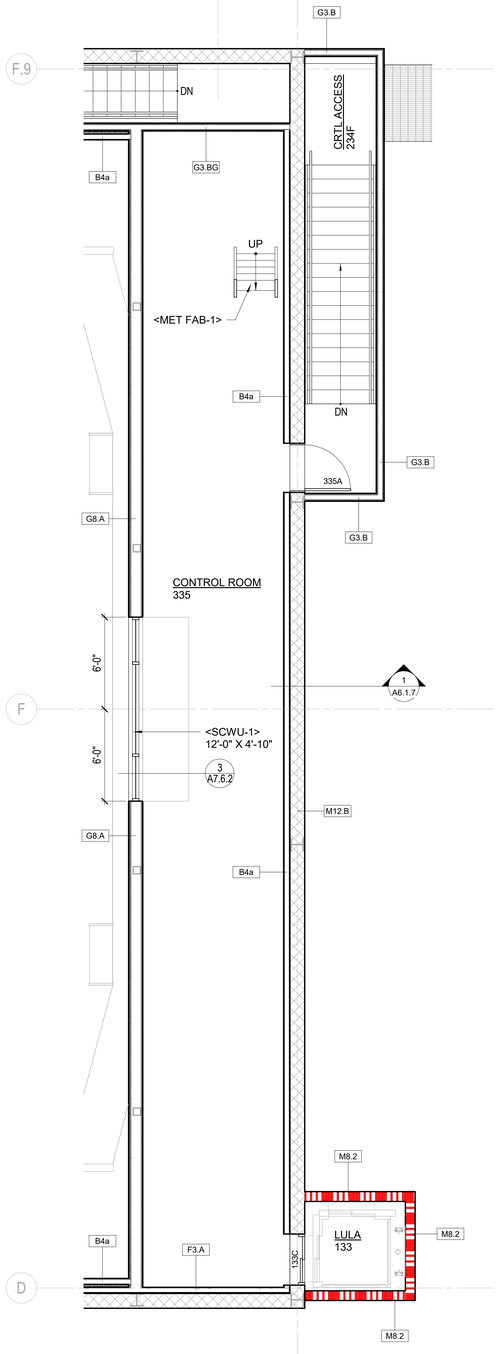
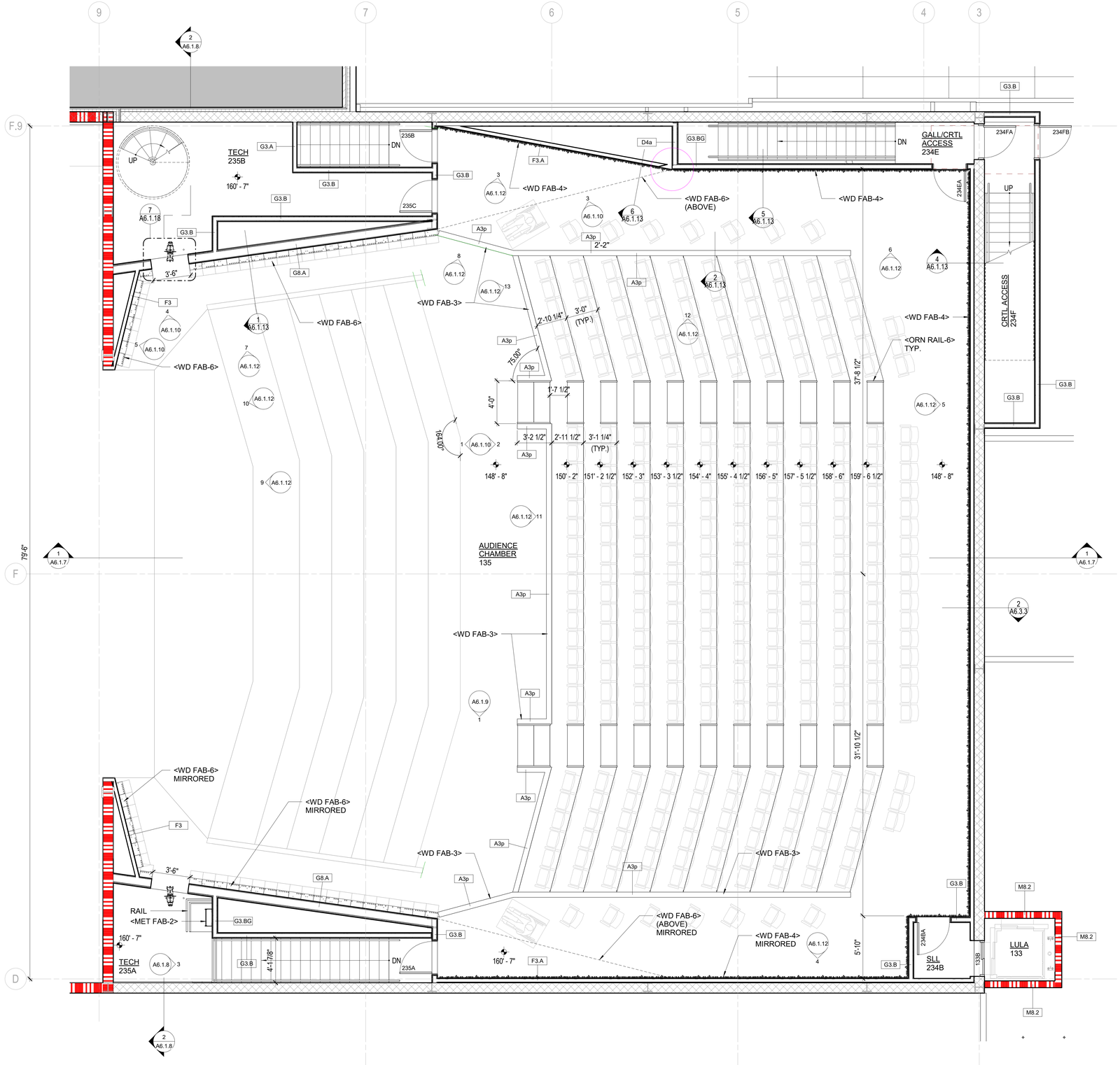



2 PROSCENIUM THEATER - ENLARGED FLOOR PLAN CONTROL ROOM
1/4" = 1'-0"




1 PROSCENIUM THEATER - ENLARGED FLOOR PLAN BACK ROW LEVEL
1/4" = 1'-0"

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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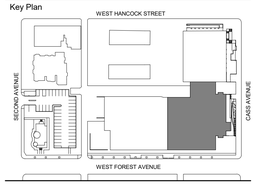
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ENLARGED PLANS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

A6.1.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

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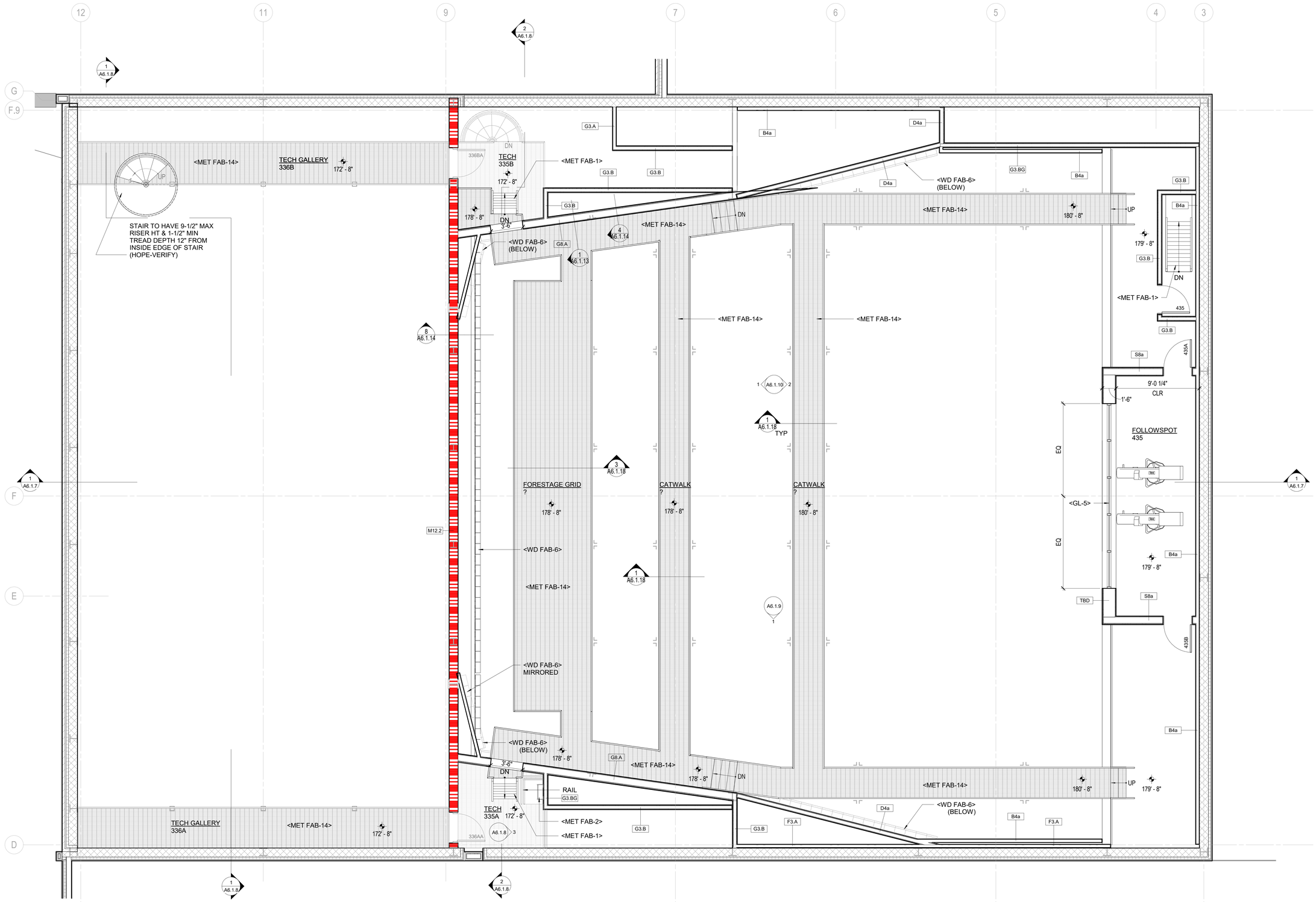
: Template Version




1 PROSCENIUM THEATER - ENLARGED FLOOR PLAN CATWALK
1/4" = 1'-0"

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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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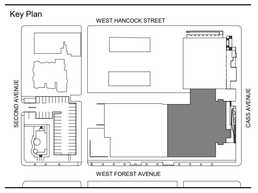
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ENLARGED PLANS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

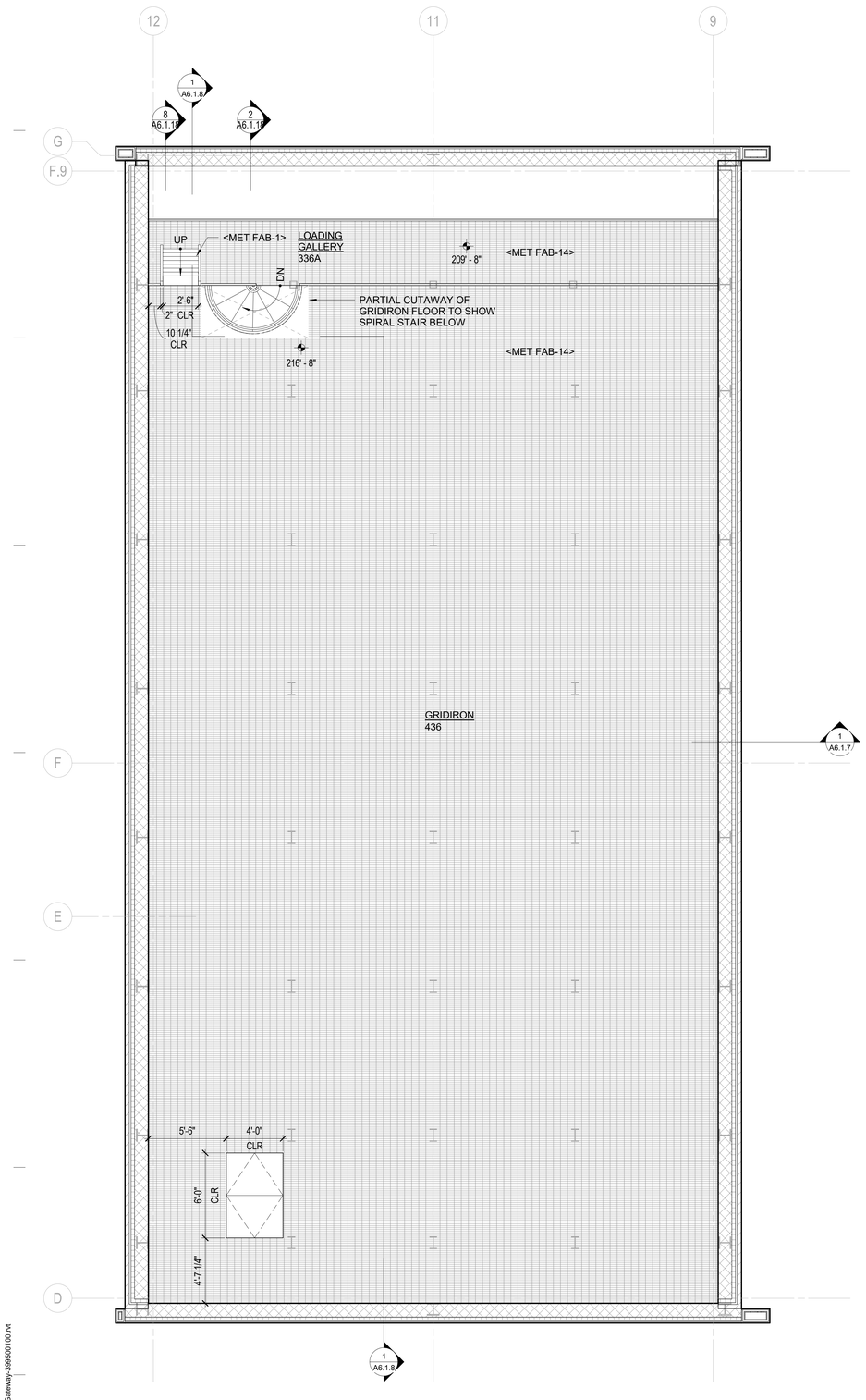
Signature:

Drawing No:

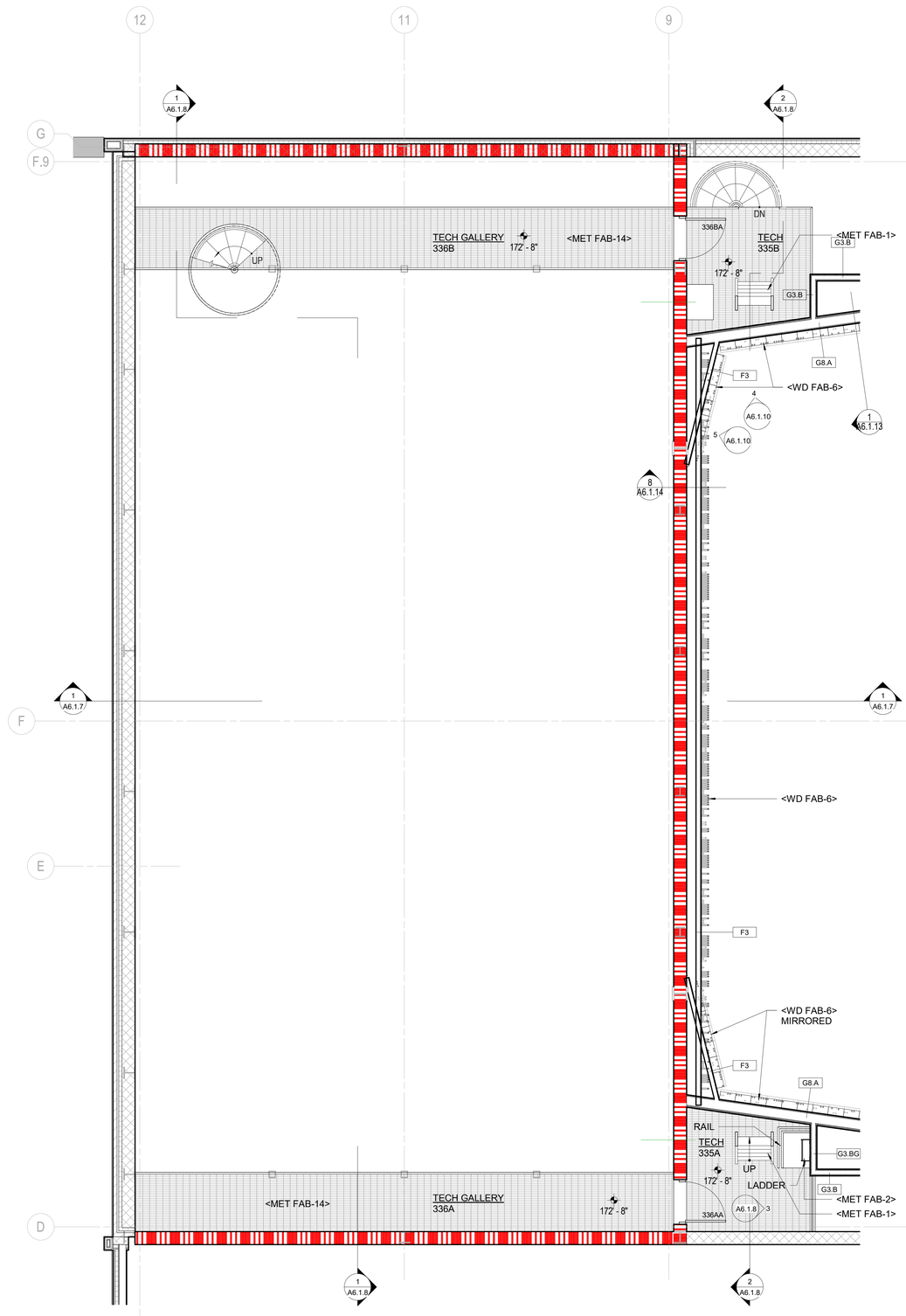
# A6.1.3

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 PROSCENIUM THEATER - ENLARGED FLOOR PLAN LOADING GALLERY & GRIDIRON
1/4" = 1'-0"




2 PROSCENIUM THEATER - ENLARGED FLOOR PLAN TECH GALLERY
1/4" = 1'-0"

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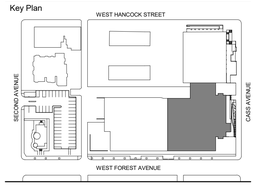
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ENLARGED PLANS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

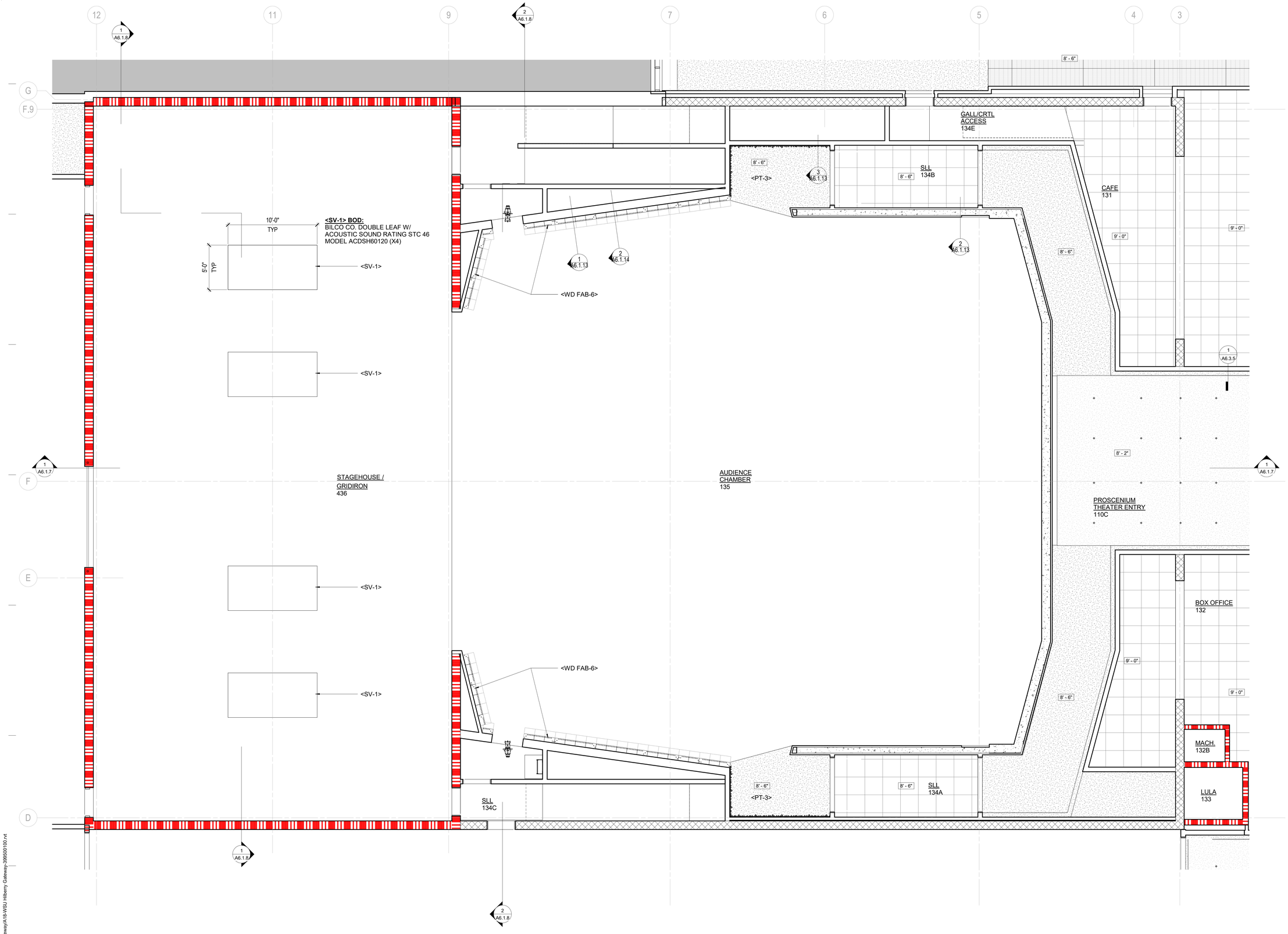
Signature:

Drawing No:

# A6.1.4

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 PROSCENIUM THEATER - ENLARGED RCP LEVEL ONE & STAGEHOUSE / GRIDIRON
1/4" = 1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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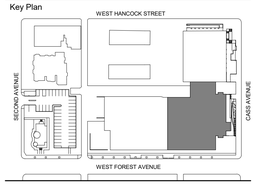
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
ENLARGED RCP-PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

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Signature:

Drawing No:
A6.1.5

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
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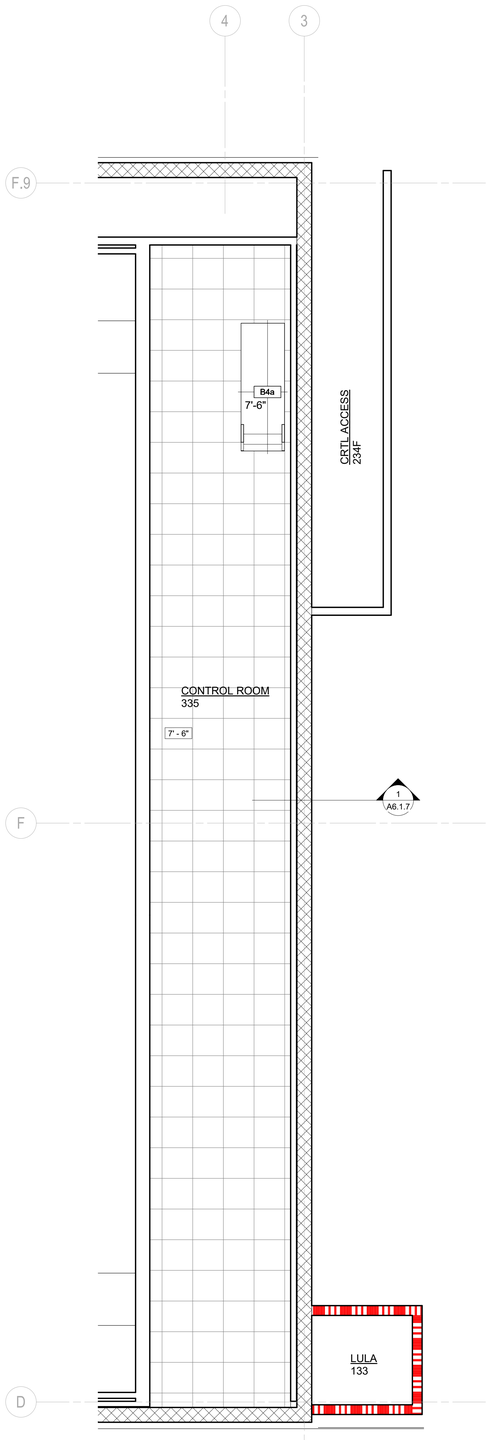


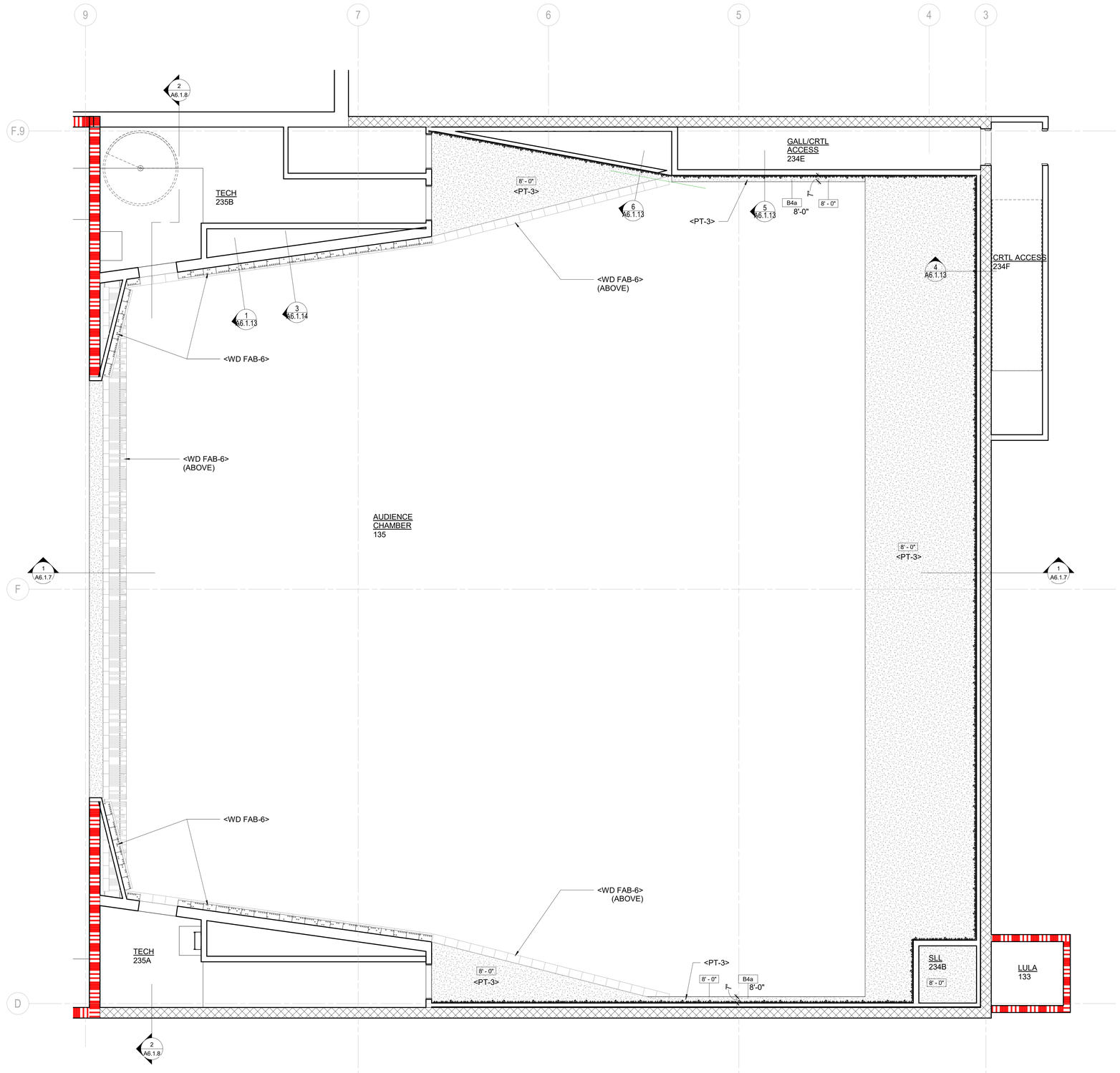


2 PROSCENIUM THEATER - ENLARGED RCP CONTROL ROOM
1/4" = 1'-0"

1 PROSCENIUM THEATER - ENLARGED RCP UPPER LEVELS
1/4" = 1'-0"

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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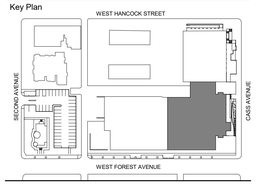
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ENLARGED RCP-PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

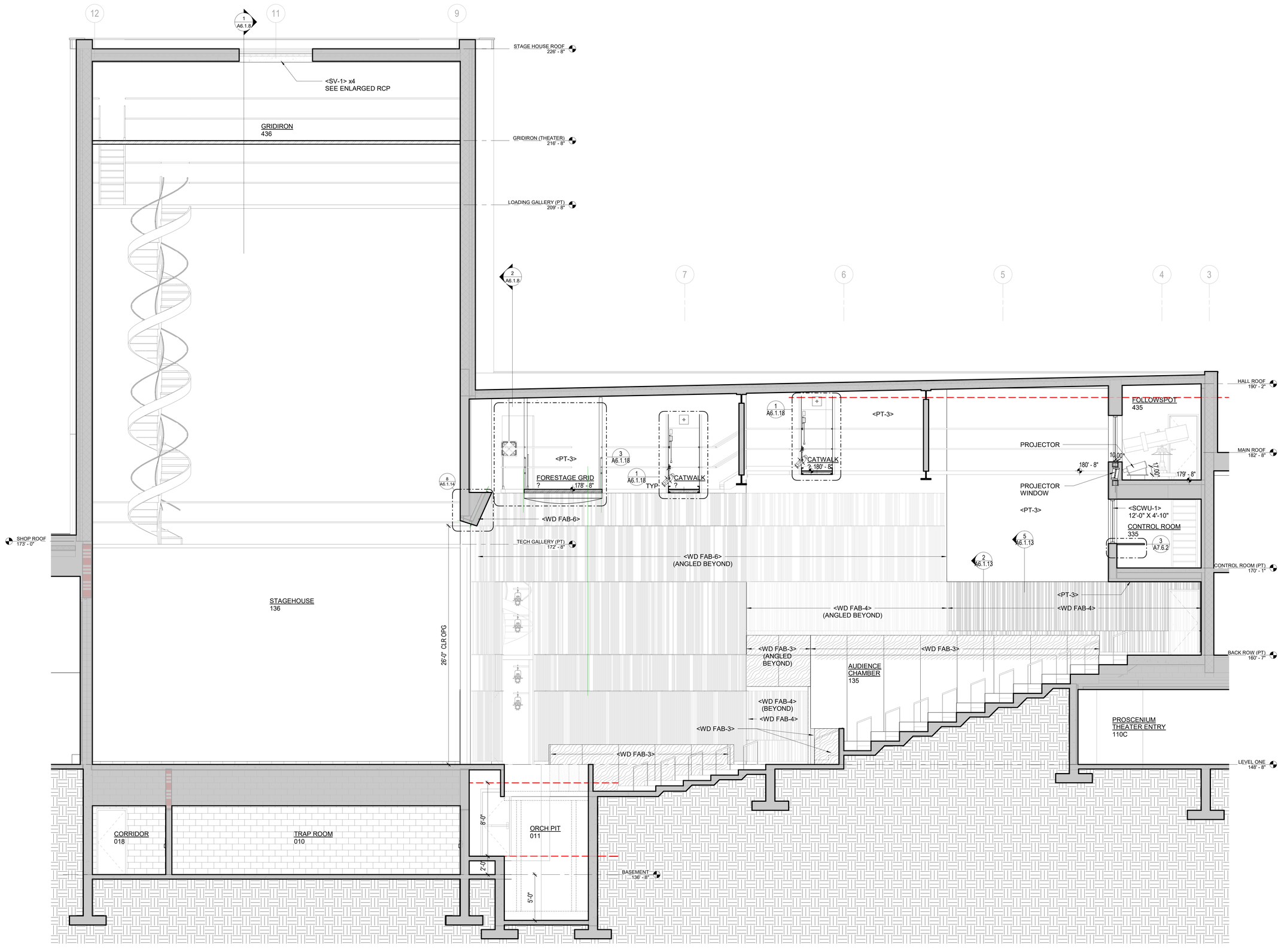
Signature:

Drawing No:

A6.1.6

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




1 PROSCENIUM THEATER - NORTH SECTION-ELEVATION
1/4" = 1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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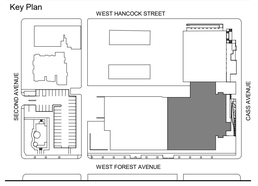
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## INTERIOR SECTION - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

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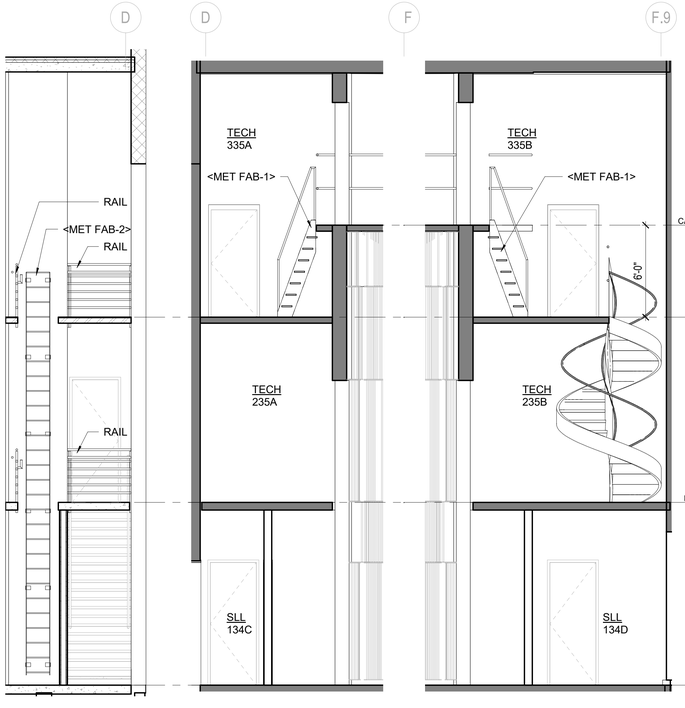
Signature:

Drawing No:

# A6.1.7

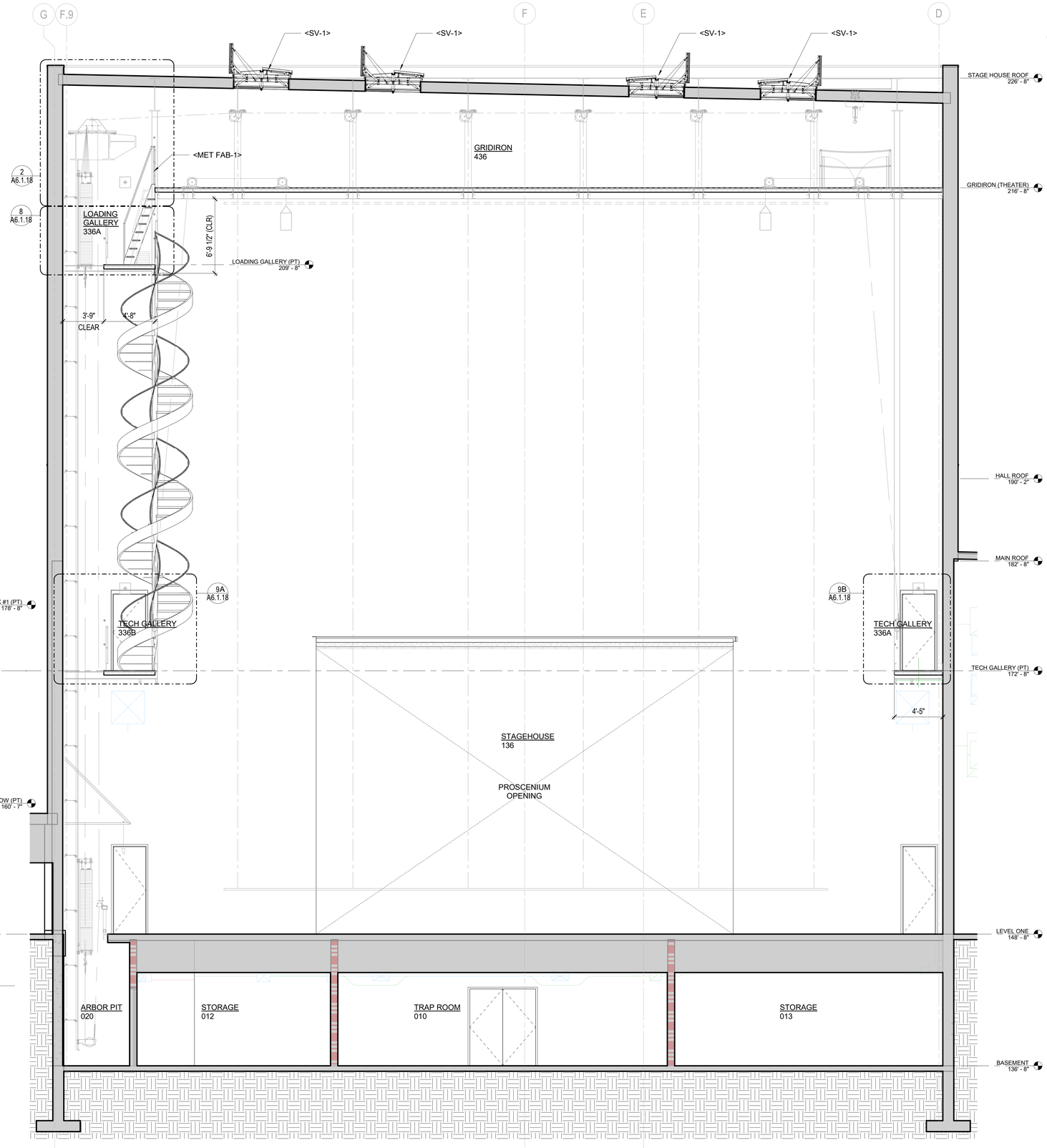
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




3 S ELEV TECH 235A
1/4" = 1'-0"

2 WEST SECTION-ELEVATION TECH 235 & 335
1/4" = 1'-0"




1 PROSCENIUM THEATER - EAST SECTION-ELEVATION STAGEHOUSE
1/4" = 1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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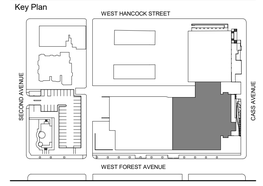
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## INTERIOR SECTION - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

A6.1.8

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version

1 PROSCENIUM THEATER - SOUTH ELEVATION
1/4" = 1'-0"

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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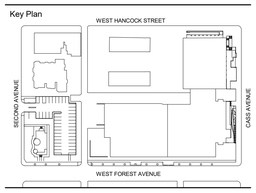
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# INTERIOR ELEVATION - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

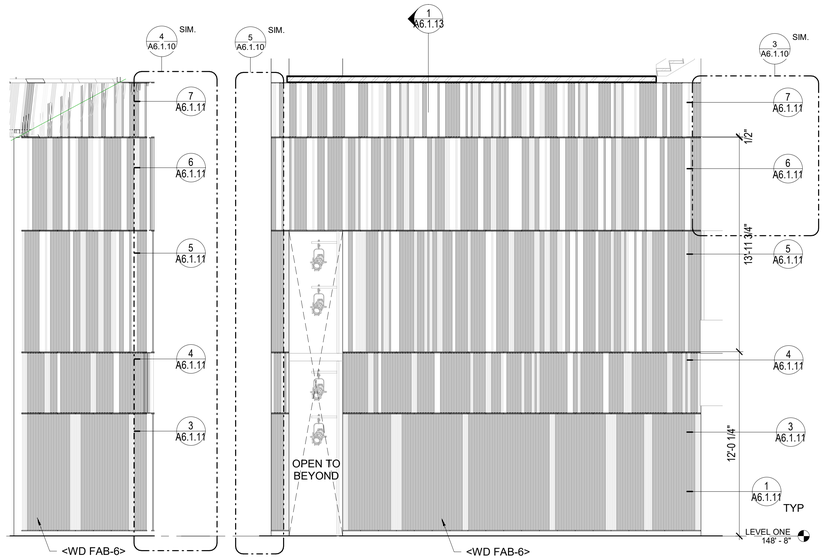
Signature:

Drawing No:

A6.1.9

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

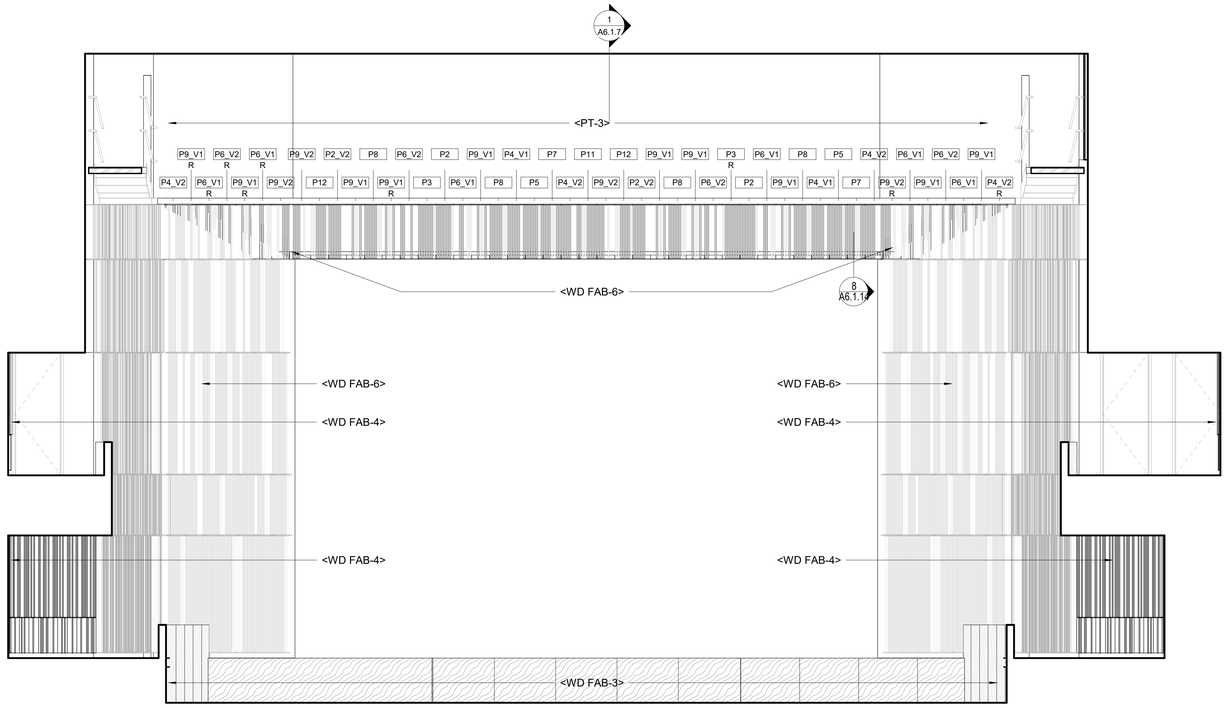



**GENERAL NOTE:**
MIRROR <WD FAB-6> CONFIGURATION ON
SOUTH SIDE OF PROSCENIUM THEATER

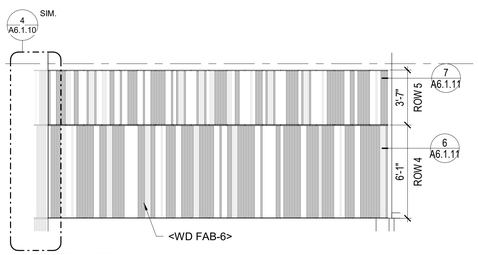
5 WD FAB-6 - NORTHWEST ELEV.
1/4" = 1'-0"

**GENERAL NOTE:**
MIRROR <WD FAB-6> CONFIGURATION ON
SOUTH SIDE OF PROSCENIUM THEATER

4 WD FAB-6 - NORTH ELEV.
1/4" = 1'-0"

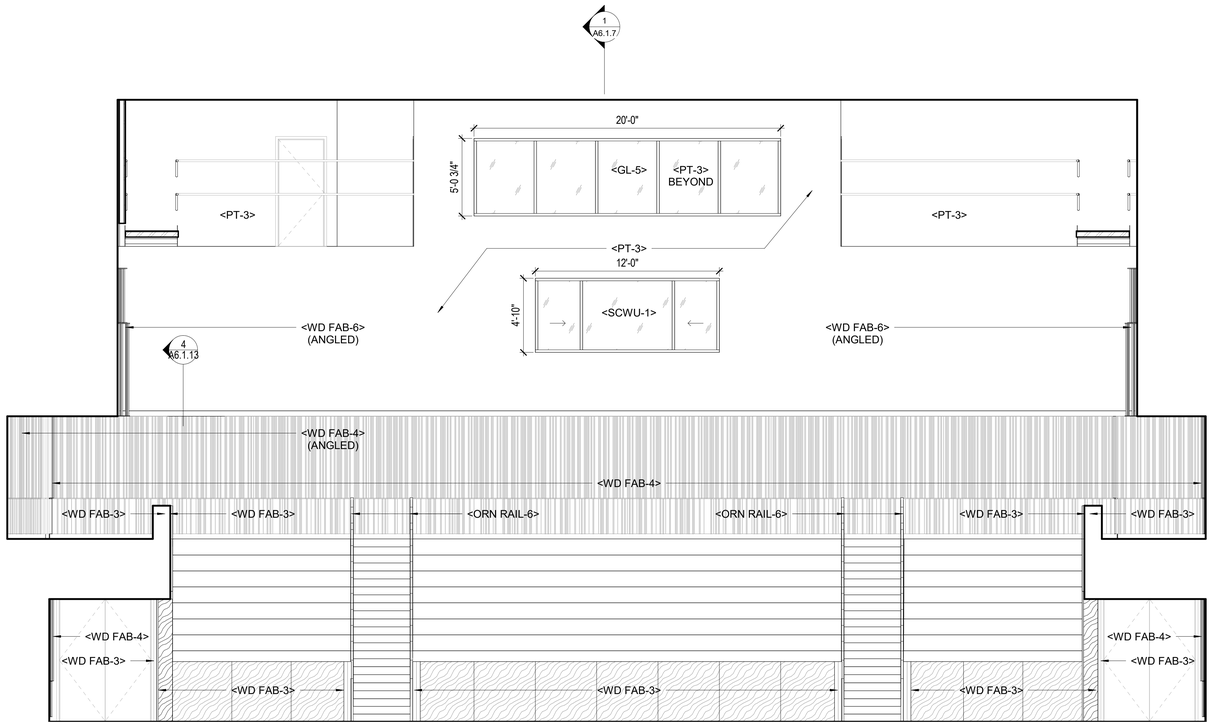



1 PROSCENIUM THEATER - WEST ELEVATION (STAGE)
1/4" = 1'-0"




**GENERAL NOTE:**
MIRROR <WD FAB-6> CONFIGURATION ON
SOUTH SIDE OF PROSCENIUM THEATER

3 WD FAB-6 - NORTHEAST ELEV.
1/4" = 1'-0"




2 PROSCENIUM THEATER - WEST ELEVATION (REAR)
1/4" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
INTERIOR ELEVATIONS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

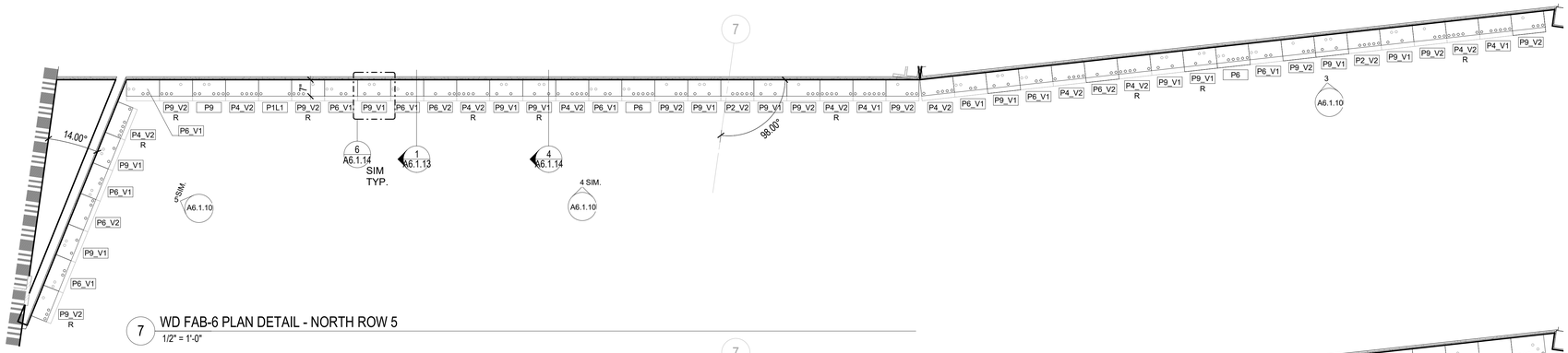
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

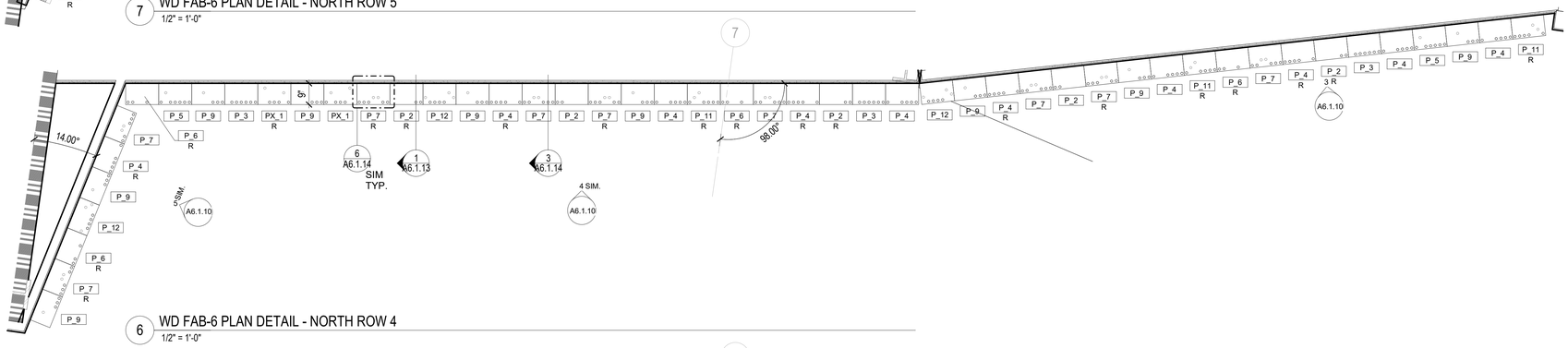
Drawing No:
A6.1.10

BIM 360://WSU Hillberry Gateway/A18-WSU Hillberry Gateway-3995001001.rvt

Sheet Size: 30" x 42"
- Template Version




7 WD FAB-6 PLAN DETAIL - NORTH ROW 5
1/2" = 1'-0"

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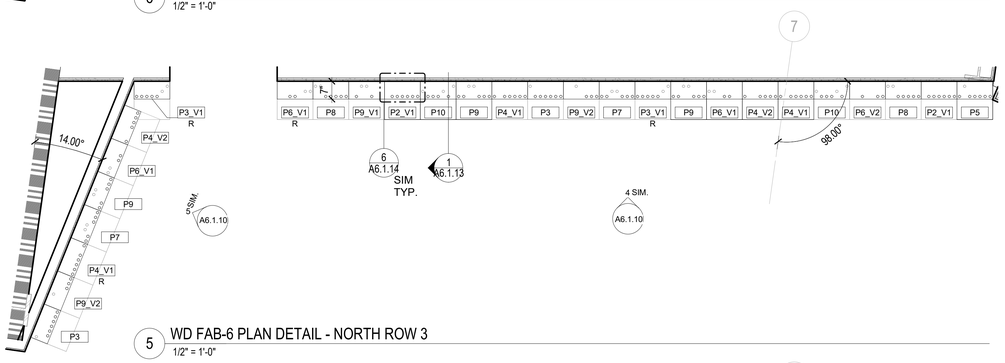
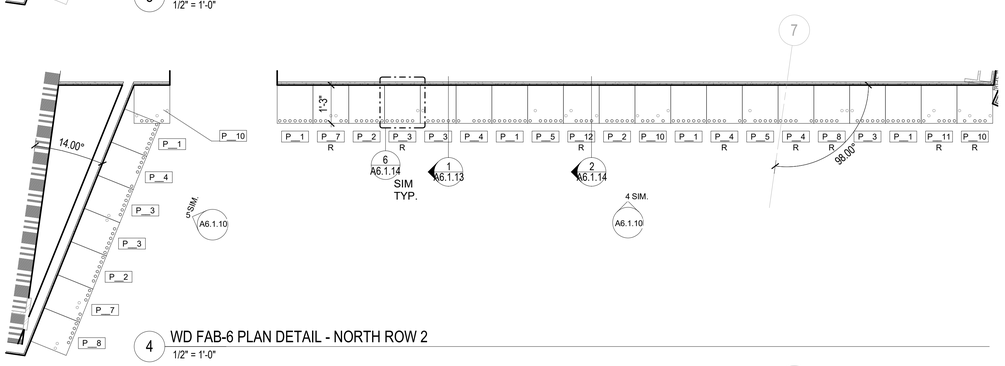
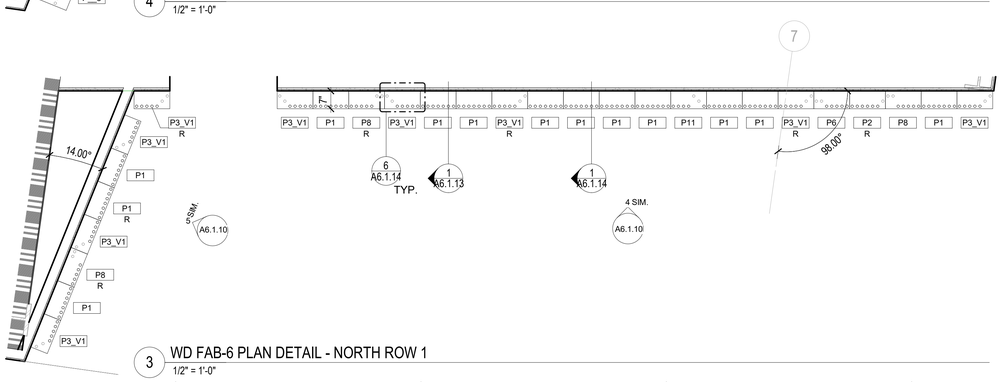
1/2" = 1'-0"



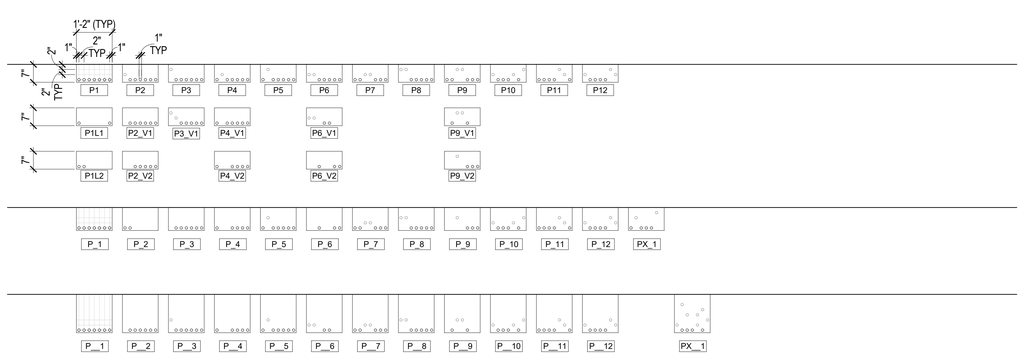

5 WD FAB-6 PLAN DETAIL - NORTH ROW 3
1/2" = 1'-0"




4 WD FAB-6 PLAN DETAIL - NORTH ROW 2
1/2" = 1'-0"




3 WD FAB-6 PLAN DETAIL - NORTH ROW 1
1/2" = 1'-0"




1 WD FAB-6 PLAN DETAILS (TYPICAL)
1/2" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# WD FAB-6 DETAILS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/2" = 1'-0"

Seal:

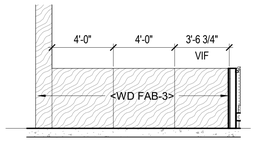
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

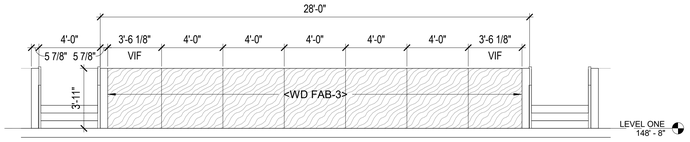
Drawing No:

# A6.1.11

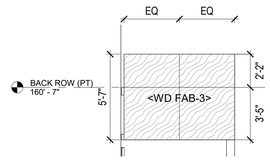
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt



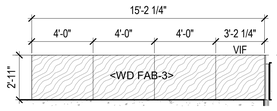

13 WD FAB-3 - NE/SE ELEV @ CROSS AISLE
1/4" = 1'-0"



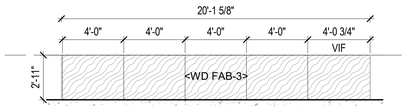

11 WD FAB-3 - E ELEVATION @ CROSS AISLE
1/4" = 1'-0"



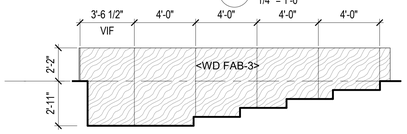

8 WD FAB-3 - NE ELEV L2
1/4" = 1'-0"



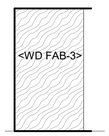

10 WD FAB-3 - SW/NW ELEV @ STAGE
1/4" = 1'-0"



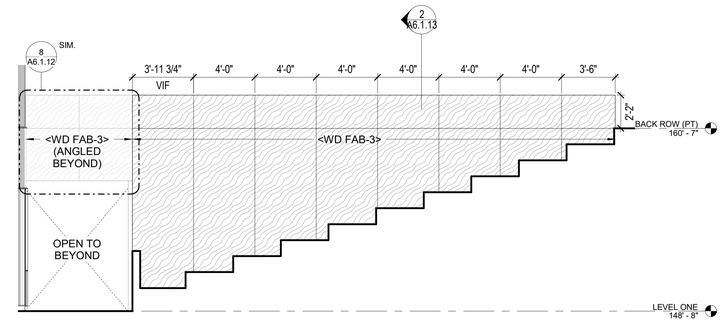

9 WD FAB-3 - E ELEVATION @ STAGE
1/4" = 1'-0"



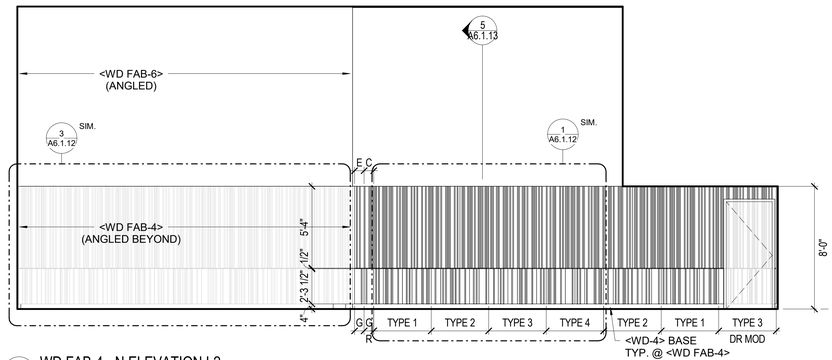

7 WD FAB-3 - N ELEVATION LOWER SEATING
1/4" = 1'-0"



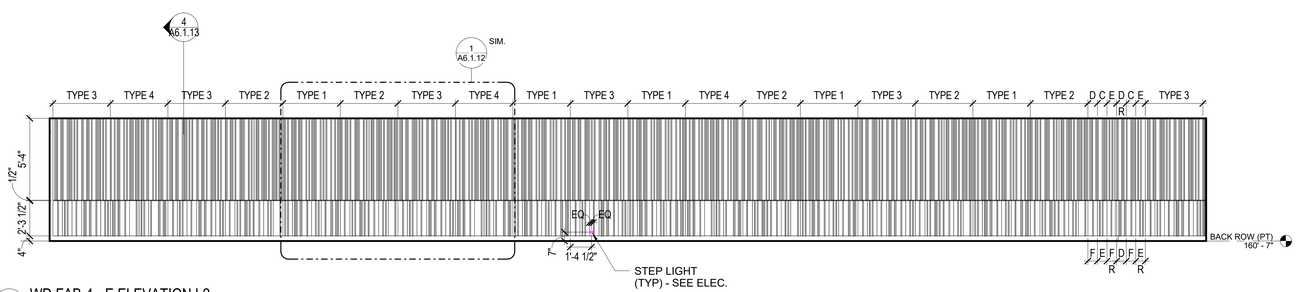

15 WD FAB-3 - S ELEV L1 ENTRY
1/4" = 1'-0"



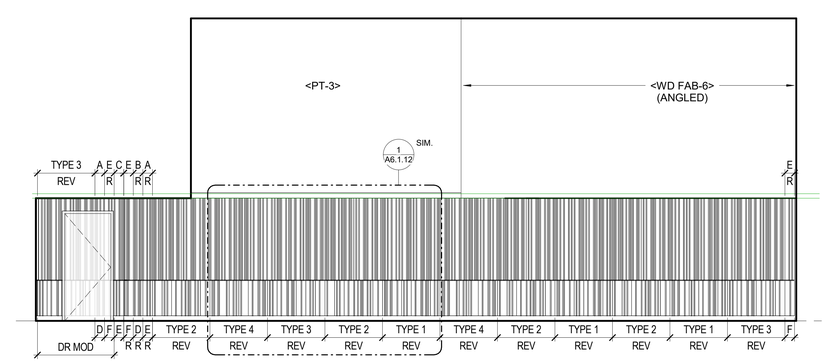

12 WD FAB-3 - N ELEVATION UPPER SEATING
1/4" = 1'-0"



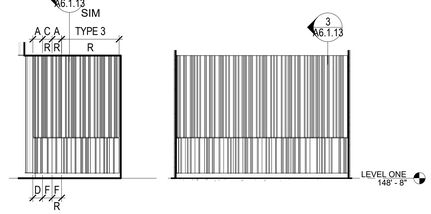

6 WD FAB-4 - N ELEVATION L2
1/4" = 1'-0"




5 WD FAB-4 - E ELEVATION L2
1/4" = 1'-0"

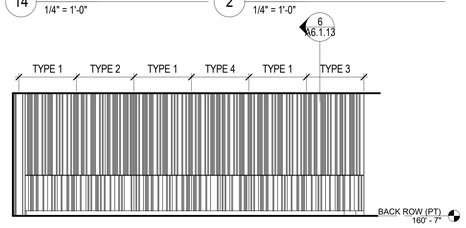



4 WD FAB-4 - S ELEVATION L2
1/4" = 1'-0"

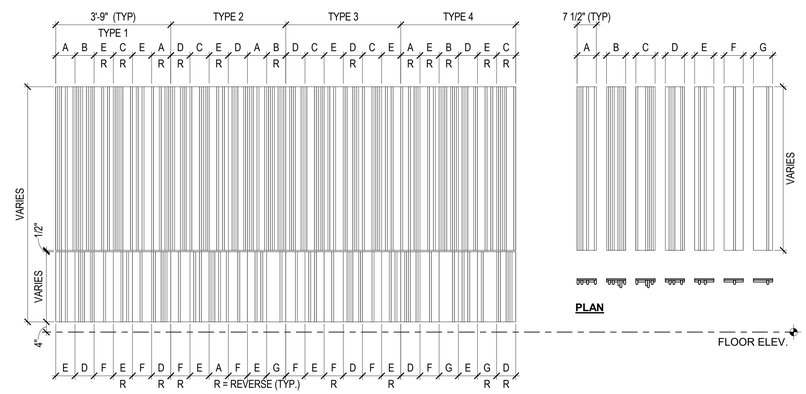



14 WD FAB-4 - W ELEV L1
1/4" = 1'-0"

2 WD FAB-4 - N ELEV L1
1/4" = 1'-0"




3 WD FAB-4 - NE ELEVATION L2
1/4" = 1'-0"




1 WD FAB-4 ASSEMBLY - PLAN & ELEVATION DETAILS (TYPICAL)
1/2" = 1'-0"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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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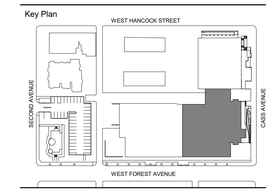
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## WD FAB-3 & 4 ELEVATIONS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

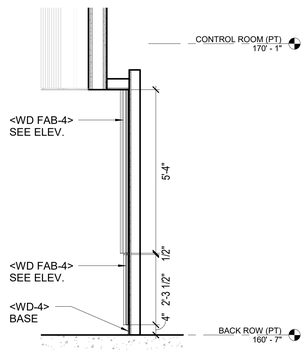
Drawing No:

# A6.1.12

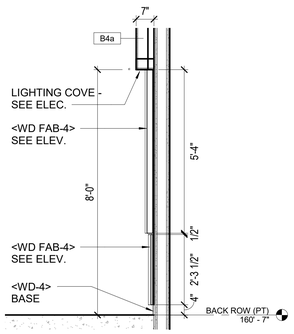

Sheet Size: 30" x 42"
- Template Version

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001001.rvt

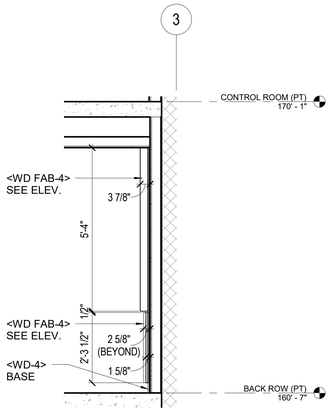
Sheet Size: 30" x 42"
: Template Version



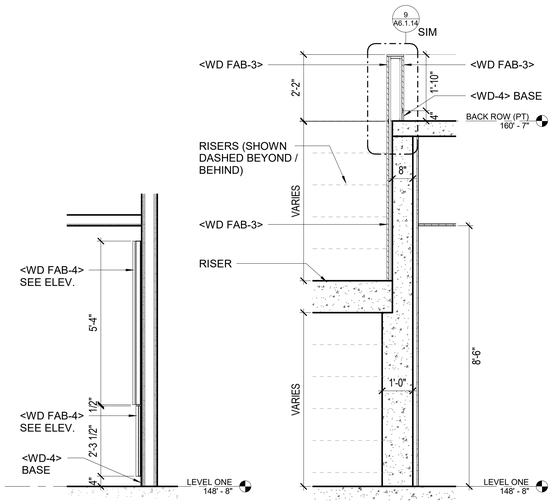

6 WD FAB-4 - WALL SECTION @ L2 BACK WALL
1/2" = 1'-0"




5 WD FAB-4 - WALL SECTION @ L2 SIDEWALL
1/2" = 1'-0"



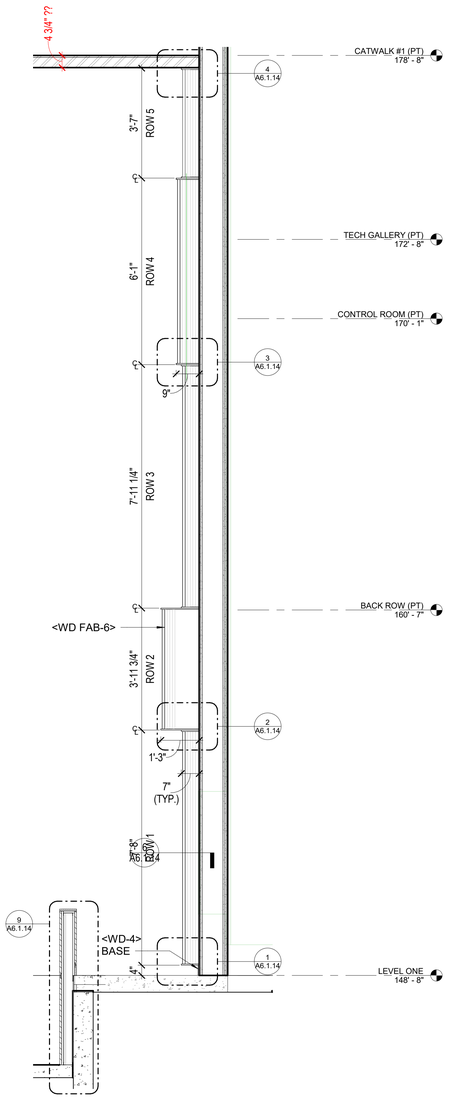

4 WD FAB-4 - WALL SECTION @ L2 ENTRY
1/2" = 1'-0"




2 RISER CONCRETE WALL SECTION
1/2" = 1'-0"




3 WD FAB-4 - WALL SECTION @ L1 ENTRY
1/2" = 1'-0"




1 WD FAB-6 - WALL SECTION (TYPICAL)
1/2" = 1'-0"

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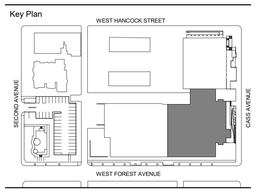
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# WALL SECTIONS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/2" = 1'-0"

Seal:

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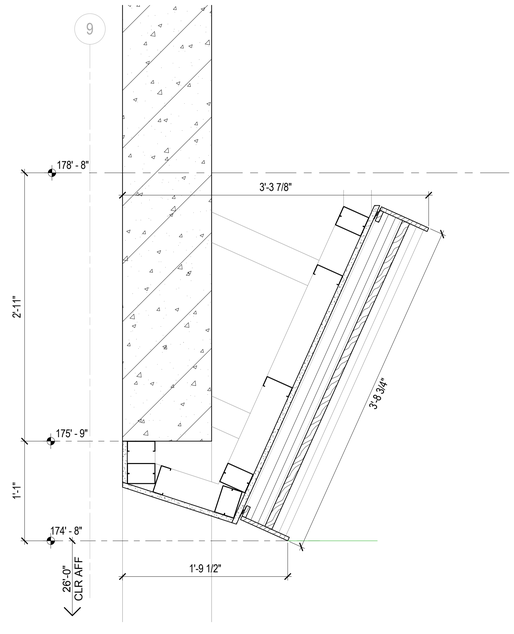
NOT FOR CONSTRUCTION

Signature:

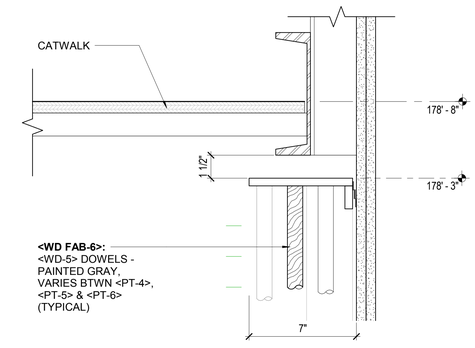
Drawing No:

# A6.1.13

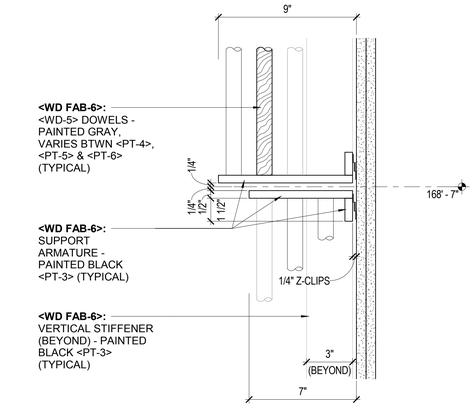
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt



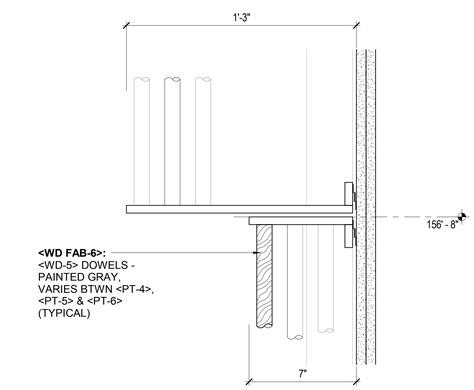

8 WD FAB-6 - SECTION DETAIL @ HEAD OF PROSCENIUM OPENING
1 1/2" = 1'-0"



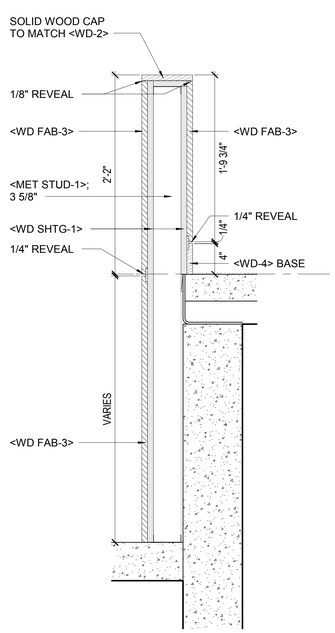

4 WD FAB-6 - SECTION DETAIL @ TOP
3" = 1'-0"



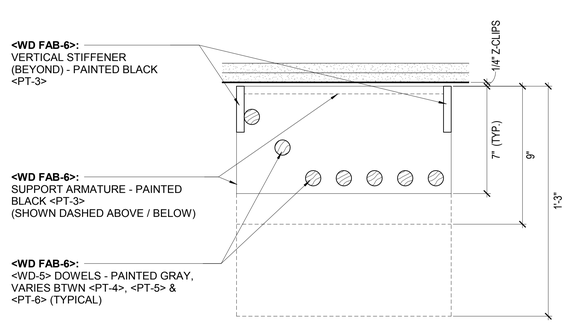

3 WD FAB-6 - SECTION DETAIL BETWEEN ROWS 3 & 4
3" = 1'-0"



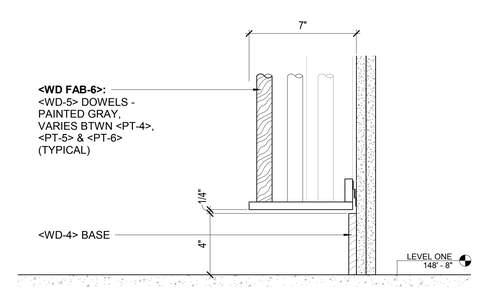

2 WD FAB-6 - SECTION DETAIL BETWEEN ROWS 1 & 2
3" = 1'-0"




9 WD FAB-3 - SECTION DETAIL
1 1/2" = 1'-0"




6 WD FAB-6 - PLAN DETAIL (TYPICAL)
3" = 1'-0"




1 WD FAB-6 - SECTION DETAIL @ BOTTOM
3" = 1'-0"

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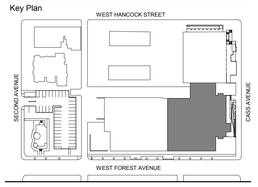
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# INTERIOR DETAILS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

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Signature:

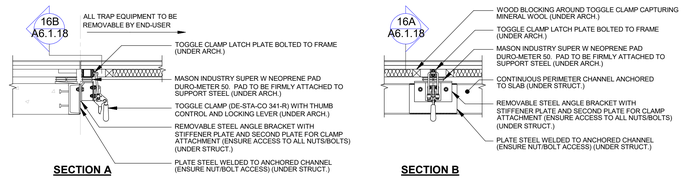
Drawing No:

# A6.1.14

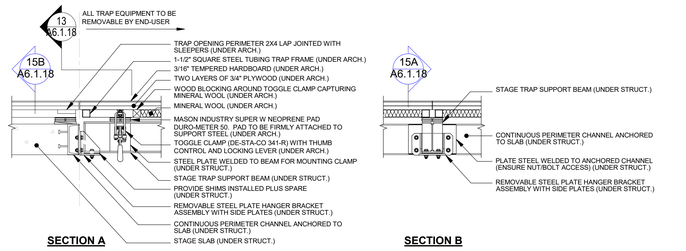
Sheet Size: 30" x 42"
- Template Version

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

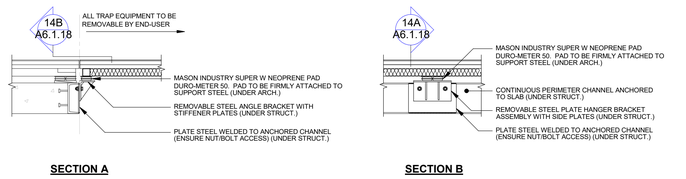
Sheet Size: 30" x 42"
- Template Version



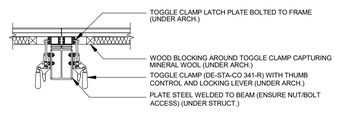

16 STAGE TRAP PERIMETER DETAILS AT UPSTAGE/DOWNSTAGE EDGES
1" = 1'-0"



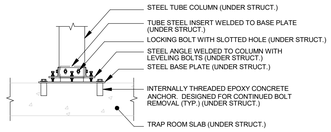

15 STAGE TRAP PERIMETER DETAILS AT SUPPORT BEAM
1" = 1'-0"



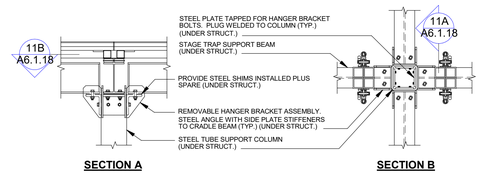

14 STAGE TRAP PERIMETER DETAILS AT TRAP PLATFORM MID-SPAN
1" = 1'-0"



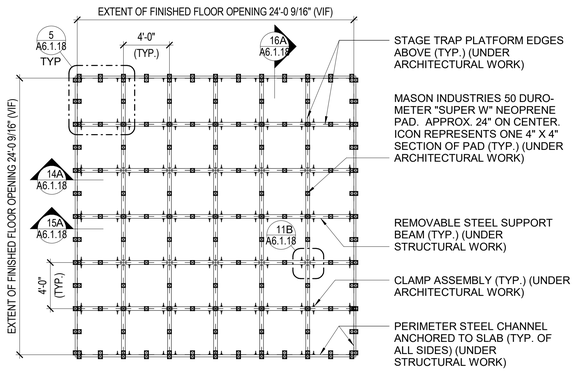

13 SUPPORT BEAM DETAIL
1" = 1'-0"



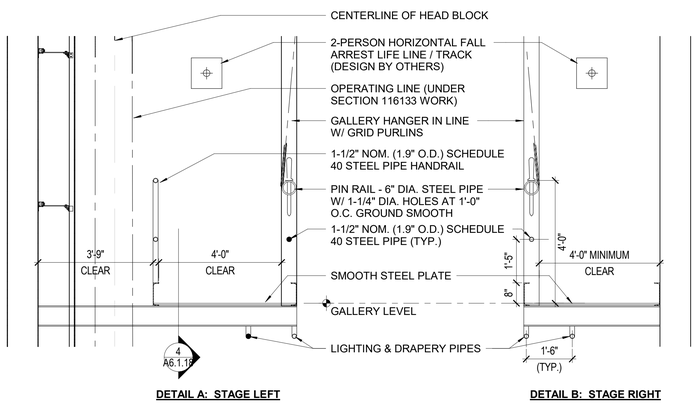

12 COLUMN BASE DETAIL
1" = 1'-0"



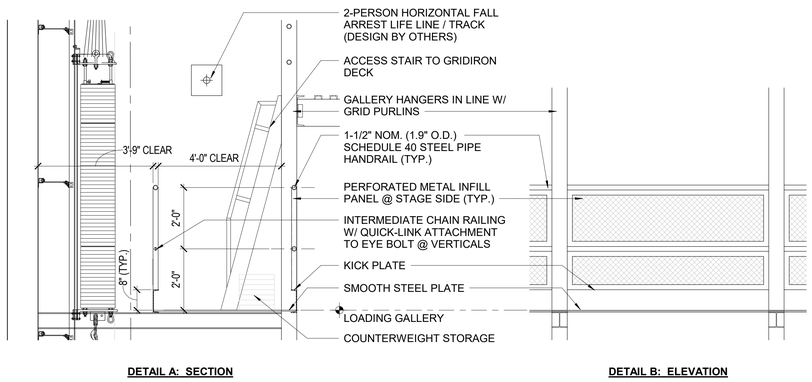

11 STAGE TRAP COLUMN DETAILS
1" = 1'-0"



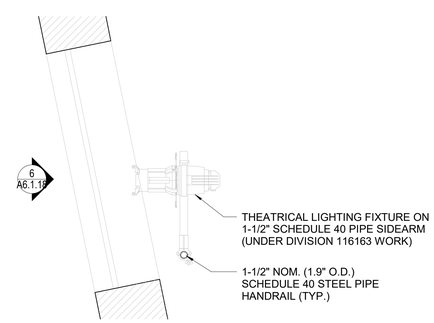

10 PROSCENIUM THEATER STAGE TRAP PLAN LAYOUT
3/16" = 1'-0"



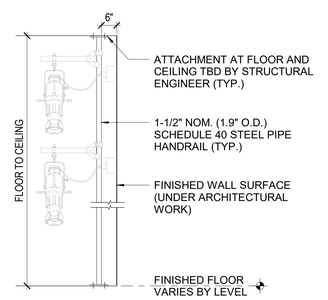

9 TECHNICAL GALLERY DETAILS
1/2" = 1'-0"



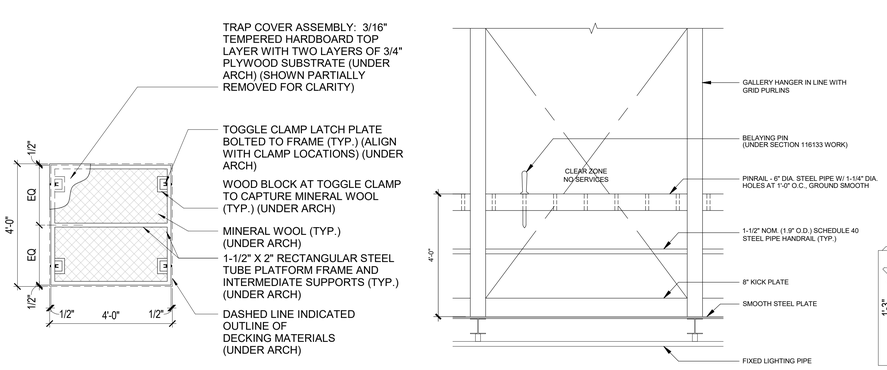

8 LOADING GALLERY DETAILS
1/2" = 1'-0"




7 LIGHTING SLOT TYPICAL ELEVATION
1" = 1'-0"

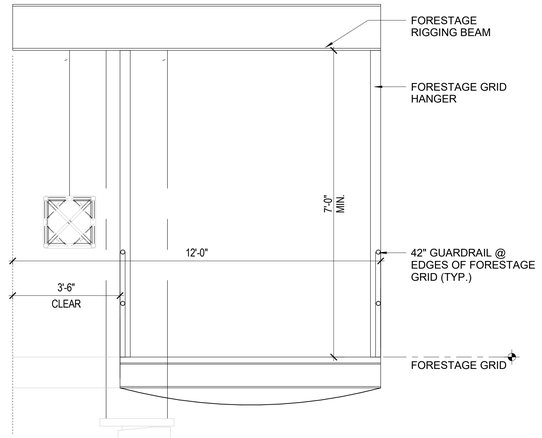



6 TYPICAL LIGHTING SLOT PLAN DETAIL
1/2" = 1'-0"

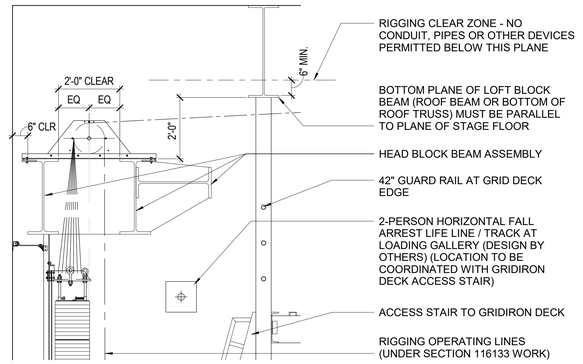



5 APF - STAGE TRAP PLATFORM PLAN (TYP. OF 36)
1/2" = 1'-0"

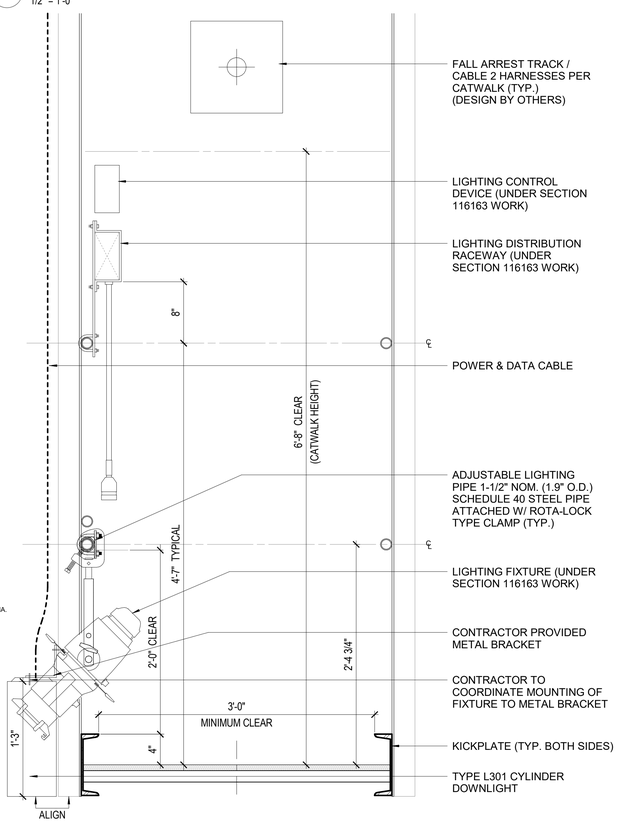
4 TECHNICAL GALLERY TYPICAL ELEVATION
1/2" = 1'-0"




3 FORESTAGE GRID DETAIL SECTION
1/2" = 1'-0"




2 HEAD BLOCK SECTION DETAIL
1/2" = 1'-0"




1 TYPICAL CATWALK SECTION
1 1/2" = 1'-0"

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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Frransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## TYPICAL CATWALK & THEATER DETAILS - PROSCENIUM THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

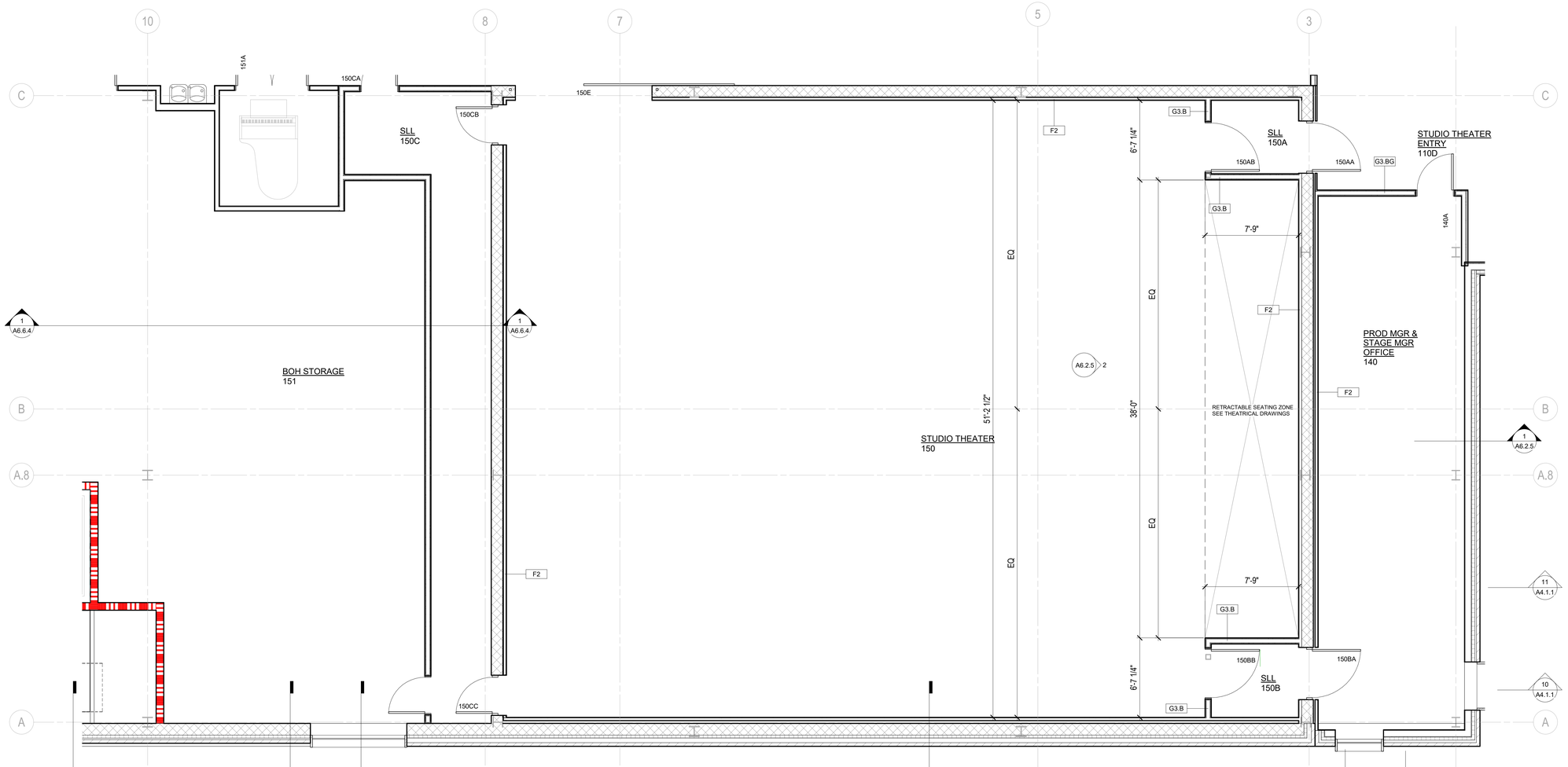
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
# A6.1.18

BIM 360://WSU Hillberry Gateway/A18-WSU Hillberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
: Template Version




1 STUDIO THEATER - ENLARGED FLOOR PLAN LEVEL ONE
1/4" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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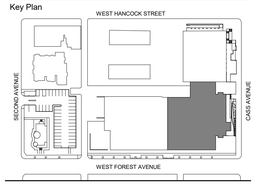
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
ENLARGED FLOOR PLAN - STUDIO THEATER

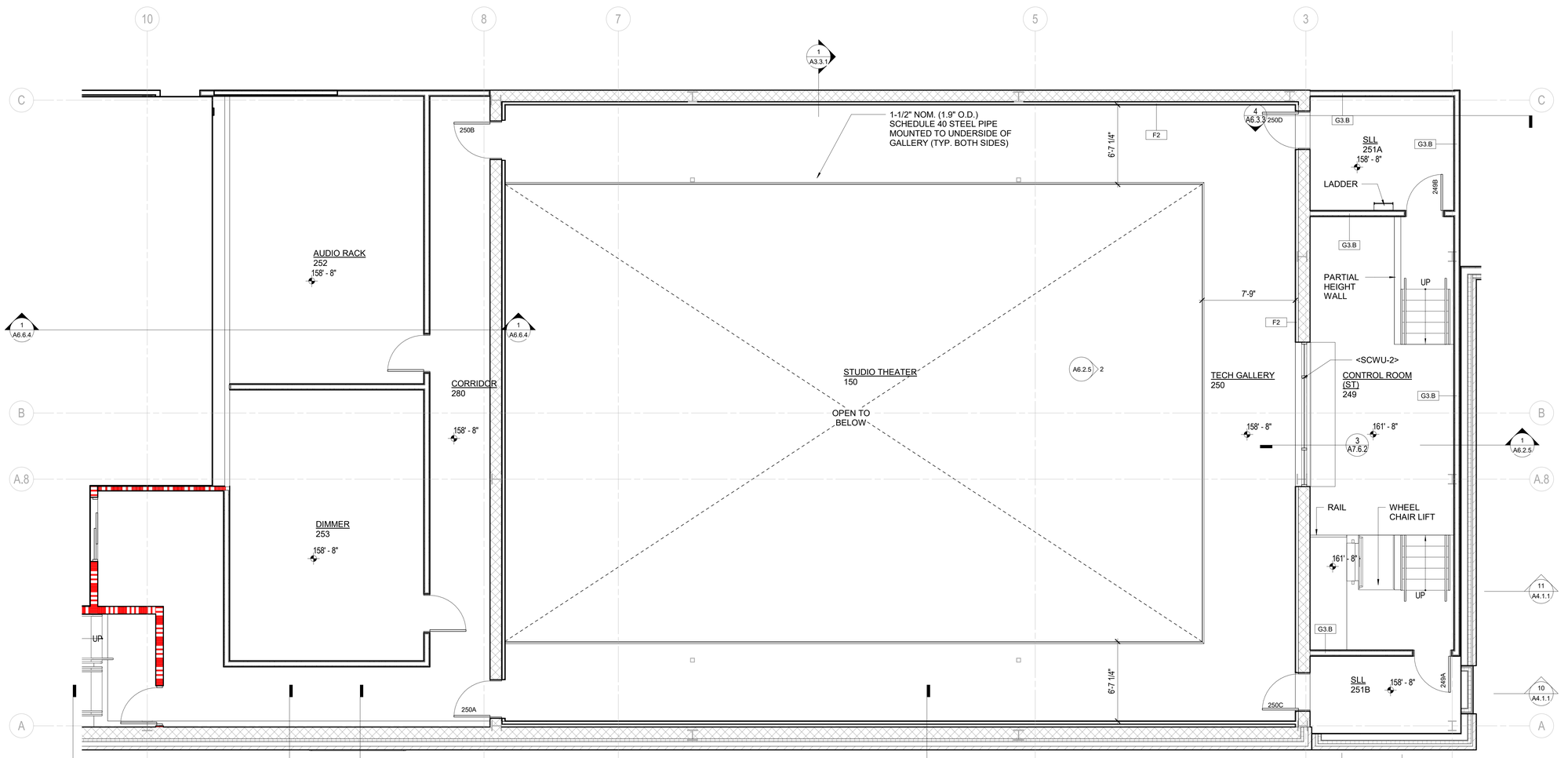
Project Number: 3995-001-00
Drawn By: Designer
Scale: 1/4" = 1'-0"
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
A6.2.1

Sheet Size: 30" x 42"
- Template Version




1 STUDIO THEATER - ENLARGED FLOOR PLAN UPPER LEVEL
1/4" = 1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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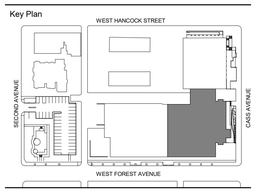
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
ENLARGED FLOOR PLAN - STUDIO THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

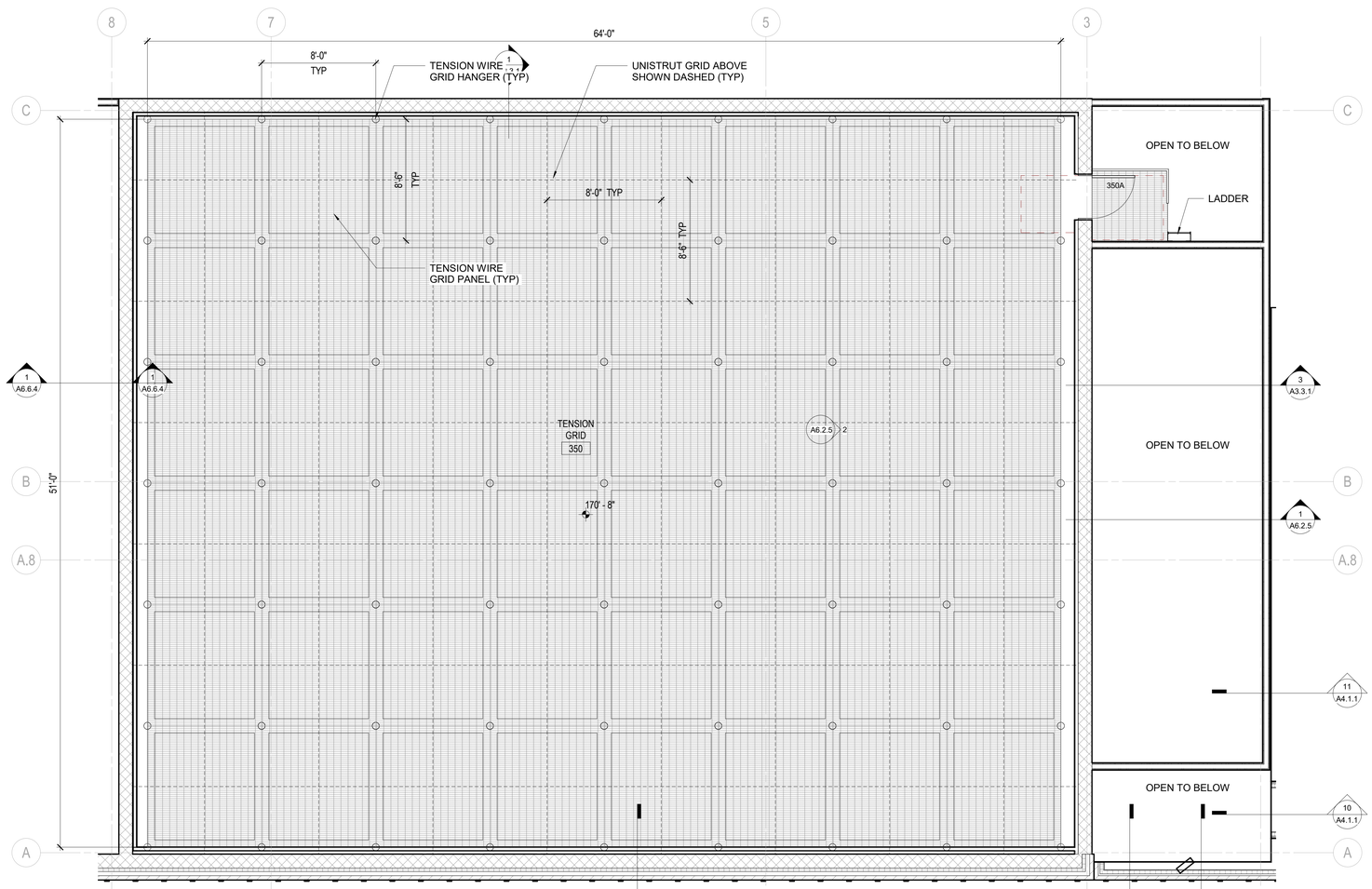
Signature:

Drawing No:

A6.2.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 STUDIO THEATER - ENLARGED FLOOR PLAN TENSION GRID LEVEL
1/4" = 1'-0"

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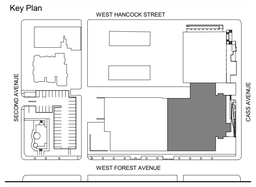
WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ENLARGED FLOOR PLAN - STUDIO THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

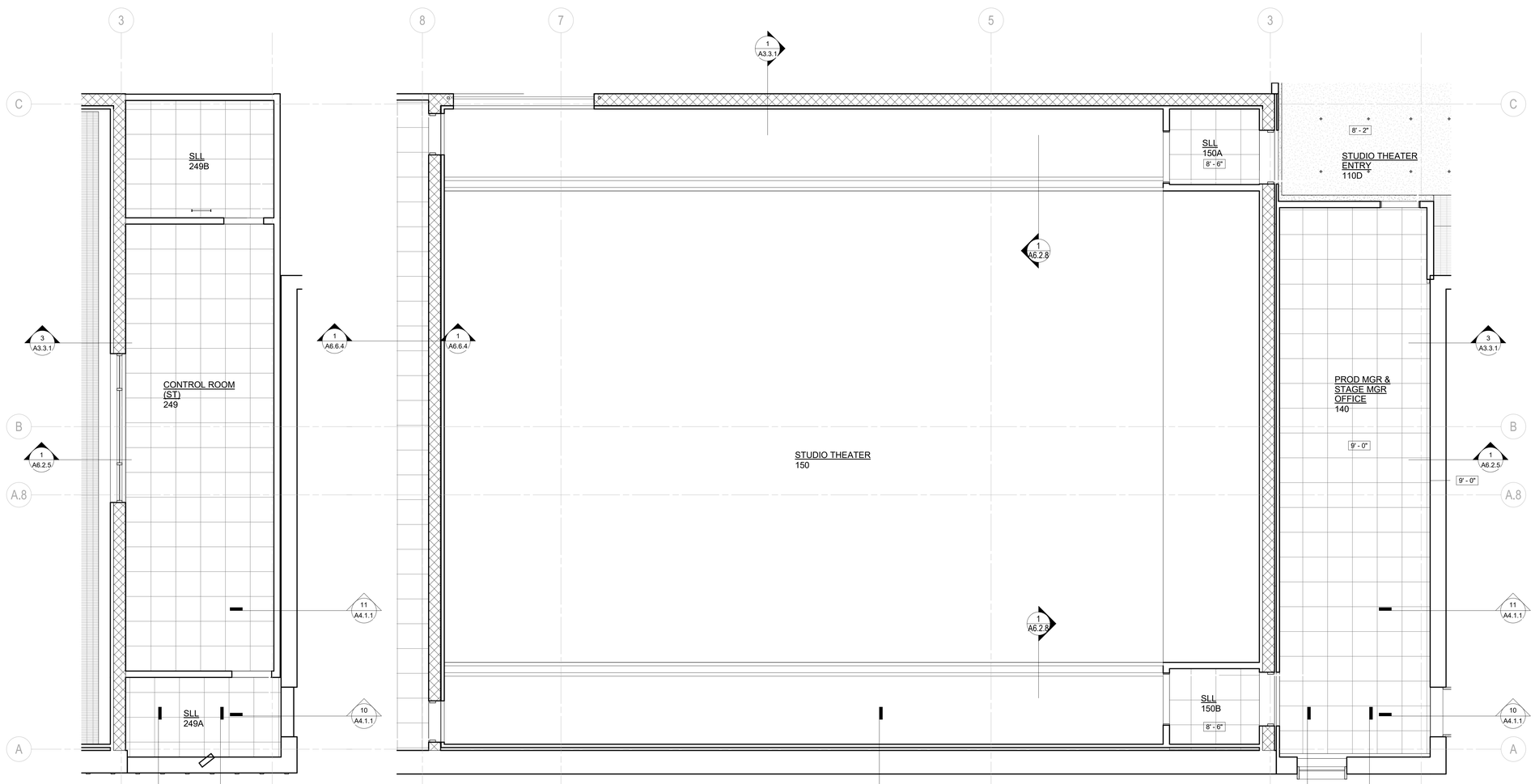
Signature:

Drawing No:

# A6.2.3

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version




2 STUDIO THEATER - ENLARGED RCP CONTROL ROOM
1/4" = 1'-0"

1 STUDIO THEATER - ENLARGED RCP UPPER LEVEL
1/4" = 1'-0"

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WAYNE STATE UNIVERSITY

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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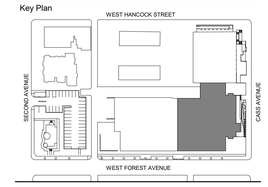
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ENLARGED RCP'S- STUDIO THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

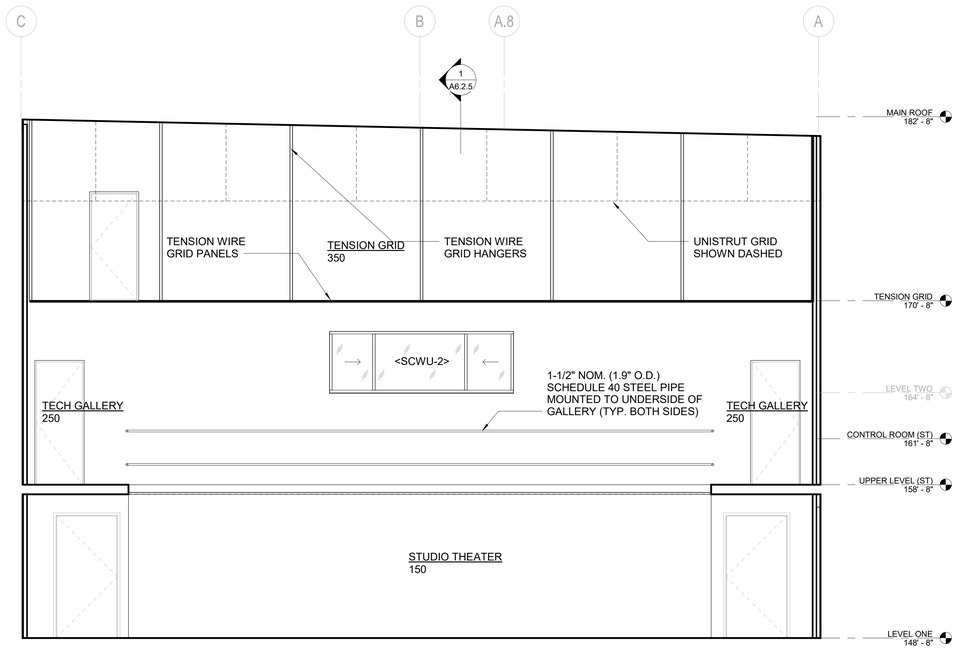
Signature:

Drawing No:

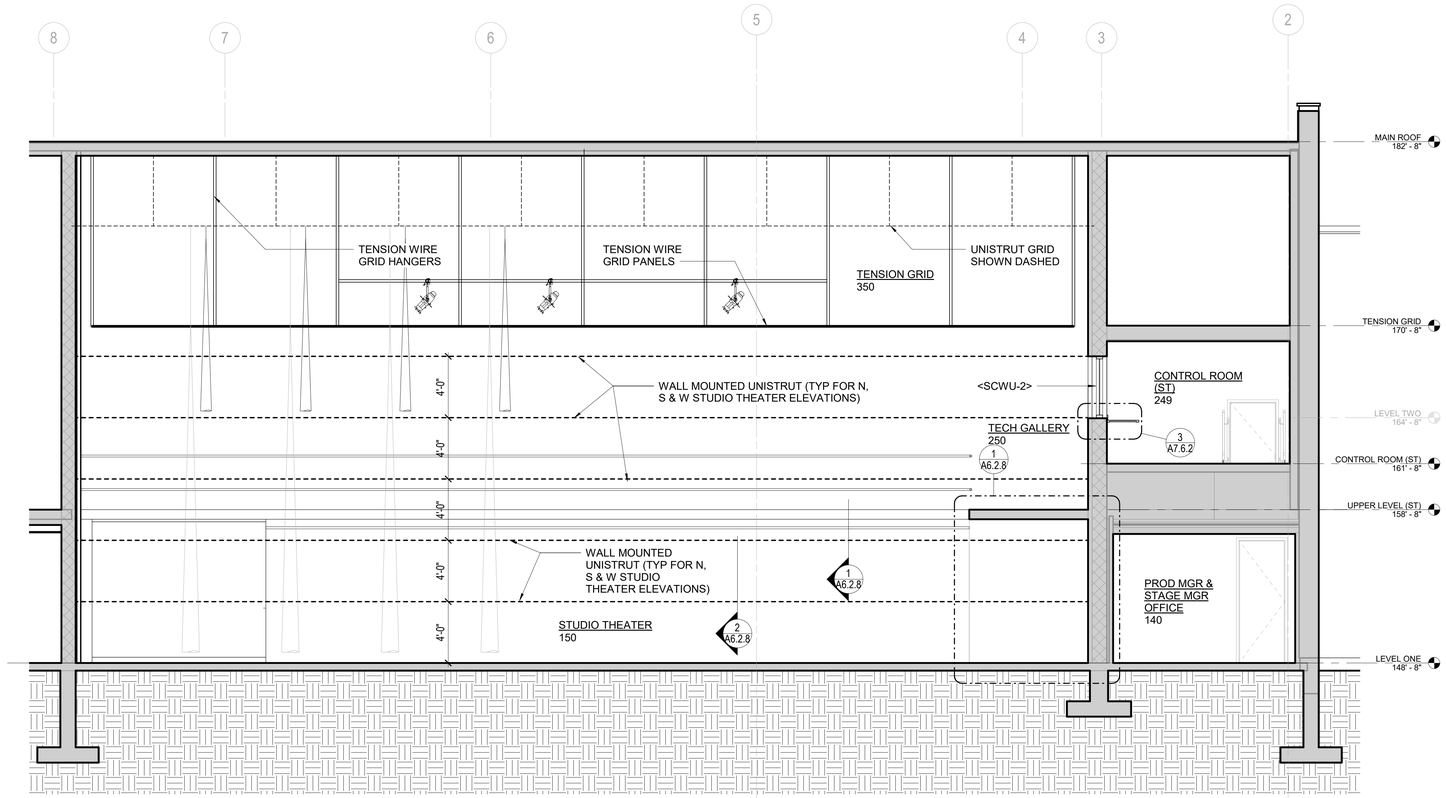
# A6.2.4

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




2 STUDIO THEATER - EAST ELEVATION (REAR)
1/4" = 1'-0"




1 STUDIO THEATER - NORTH SECTION-ELEVATION
1/4" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## SECTION & INTERIOR ELEVATION - STUDIO THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

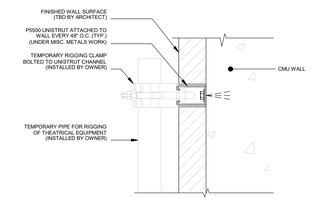
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

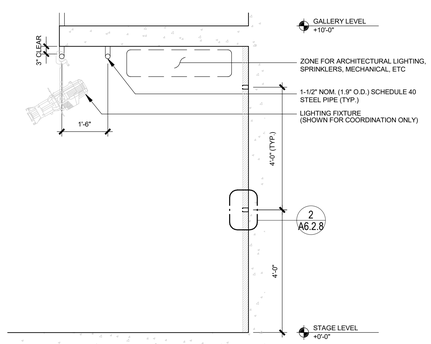
Drawing No:

# A6.2.5

Sheet Size: 30" x 42"
- Template Version




2 WALL MOUNTED UNISTRUT - DETAIL ELEVATION
3" = 1'-0"




1 STUDIO THEATER - UNDER GALLERY DETAIL SECTION
1/2" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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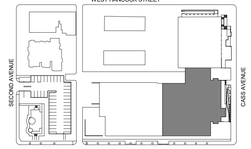
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## TYPICAL THEATER DETAILS - STUDIO THEATER

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

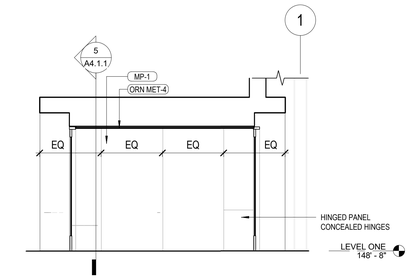
Signature:

Drawing No:

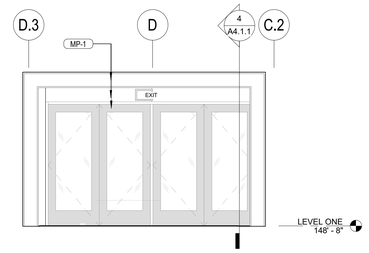
# A6.2.8

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

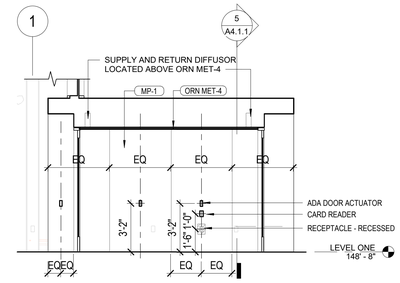
Sheet Size: 30" x 42"
- Template Version



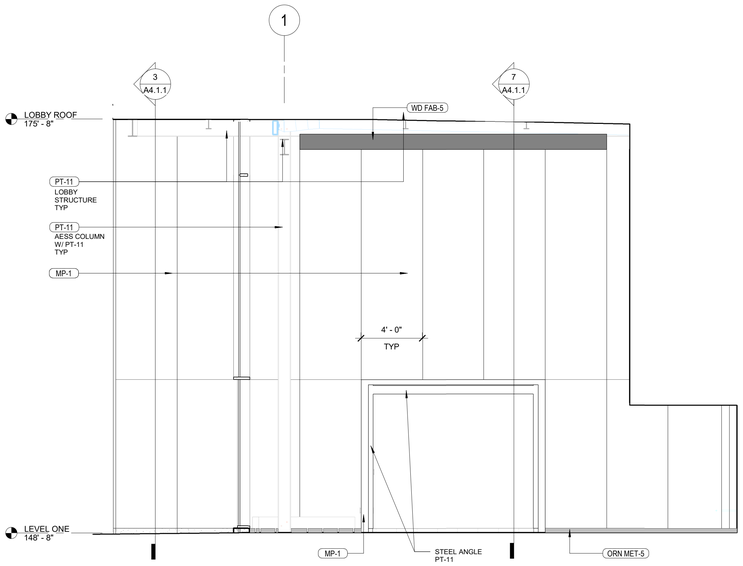

9 SOUTH ELEVATION - VESTIBULE
1/4" = 1'-0"



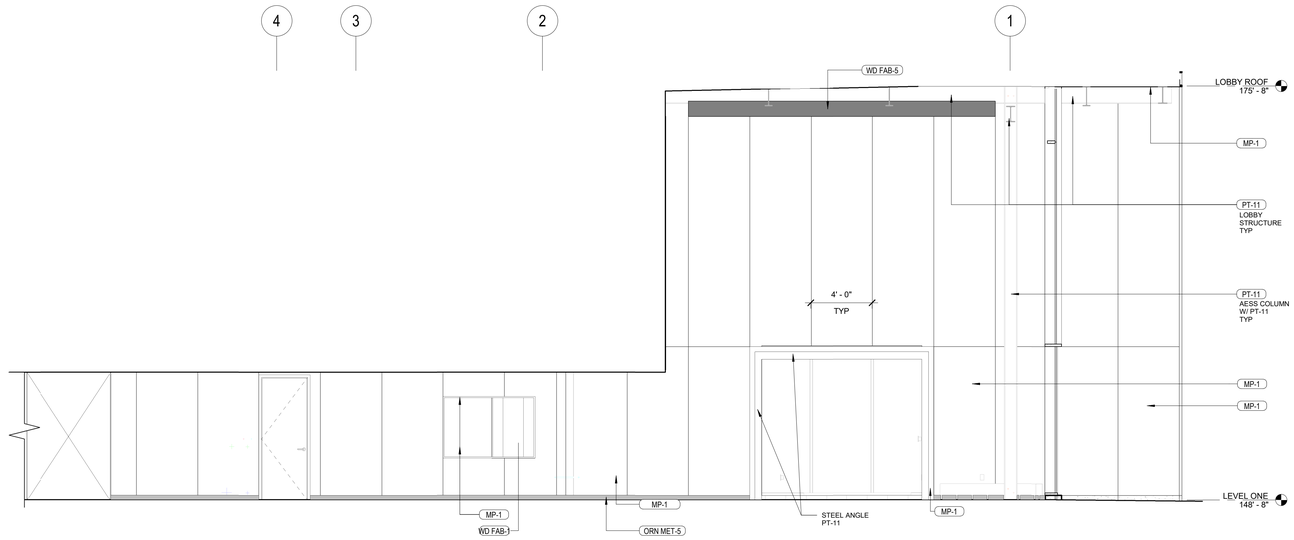

4 WEST ELEVAITON - VESTIBULE
1/4" = 1'-0"



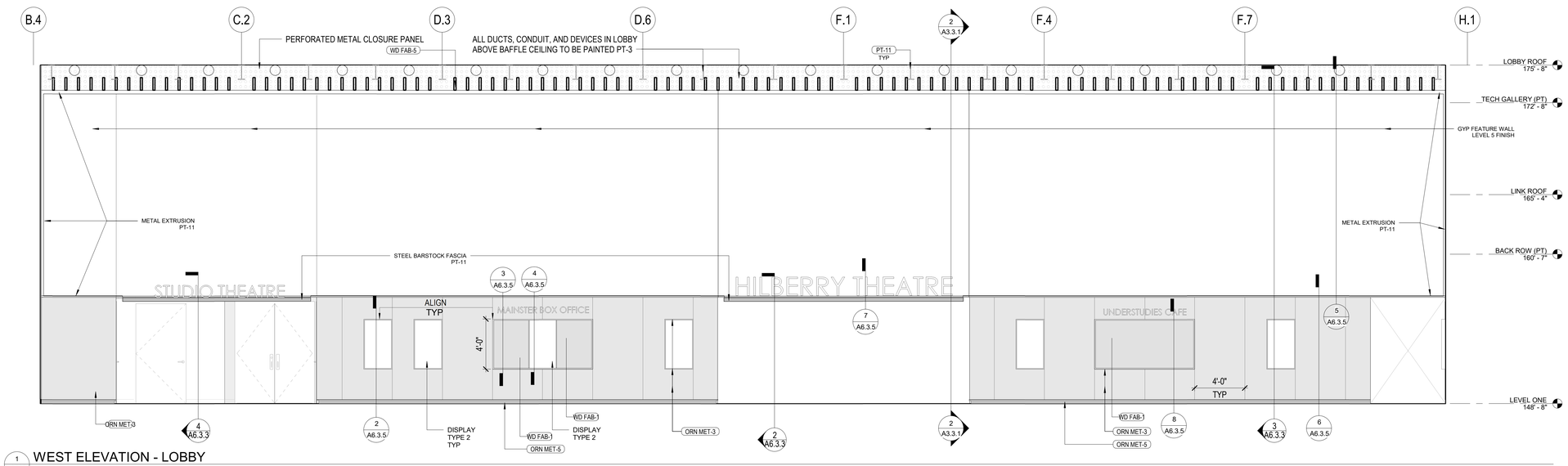

10 NORTH ELEVATION - VESTIBULE
1/4" = 1'-0"




3 SOUTH ELEVATION - LOBBY
1/4" = 1'-0"




2 NORTH ELEVATION - LOBBY
1/4" = 1'-0"




1 A203 WEST ELEVATION - LOBBY
1/4" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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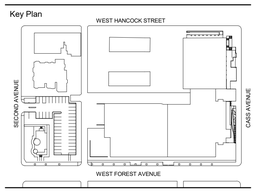
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
INTERIOR ELEVATIONS - LOBBY

Project Number: 3995-001-00
Drawn By: Designer
Scale: 1/4" = 1'-0"
Seal:

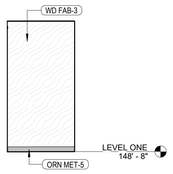
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

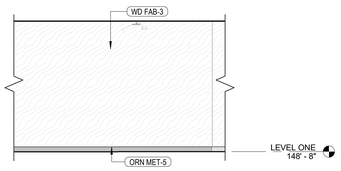
Drawing No:
A6.3.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

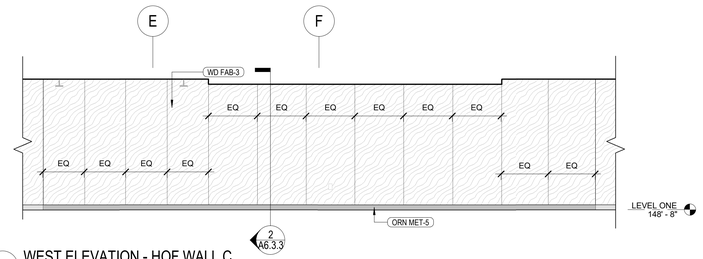
Sheet Size: 30" x 42"
- Template Version



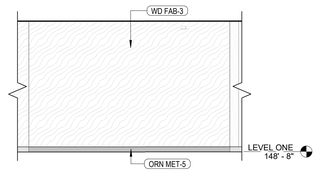

15 WEST ELEVATION - HOF WALL E
1/4" = 1'-0"



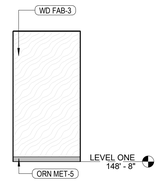

14 WEST ELEVATION - HOF WALL D
1/4" = 1'-0"



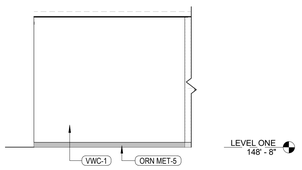

5 WEST ELEVATION - HOF WALL C
1/4" = 1'-0"



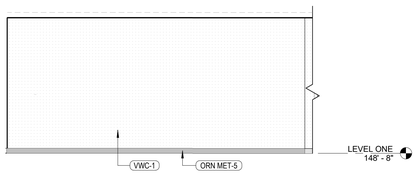

13 WEST ELEVATION - HOF WALL B
1/4" = 1'-0"



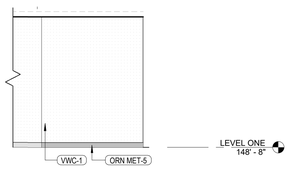

12 WEST ELEVATION - HOF WALL A
1/4" = 1'-0"



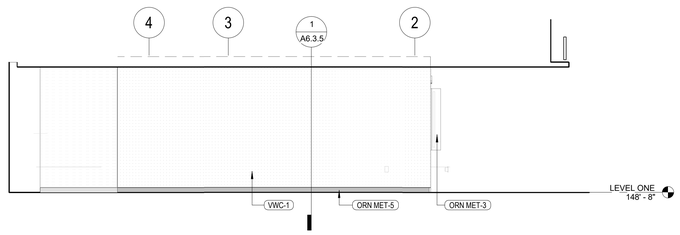

8 ELEVATION - NORTH THEATRE ENTRY CORRIDOR C
1/4" = 1'-0"



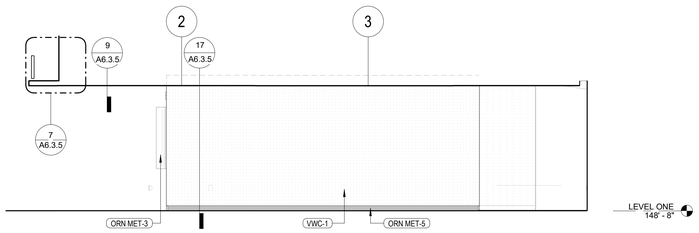

7 ELEVATION - NORTH THEATRE ENTRY CORRIDOR B
1/4" = 1'-0"



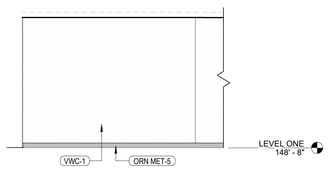

6 ELEVATION - NORTH THEATRE ENTRY CORRIDOR A
1/4" = 1'-0"



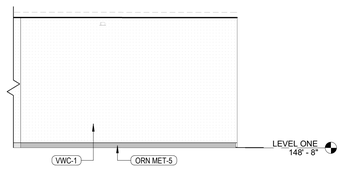

3 NORTH ELEVATION - THEATRE ENTRY
1/4" = 1'-0"



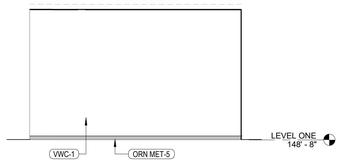

4 SOUTH ELEVATION - THEATRE ENTRY
1/4" = 1'-0"



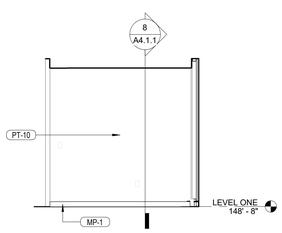

9 ELEVATION - SOUTH THEATRE ENTRY CORRIDOR A
1/4" = 1'-0"



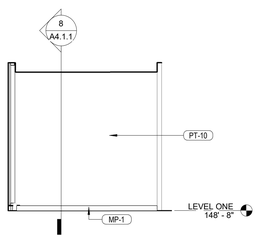

10 ELEVATION - SOUTH THEATRE ENTRY CORRIDOR B
1/4" = 1'-0"



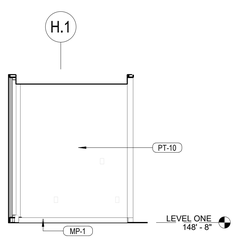

11 ELEVATION - SOUTH THEATRE ENTRY CORRIDOR C
1/4" = 1'-0"



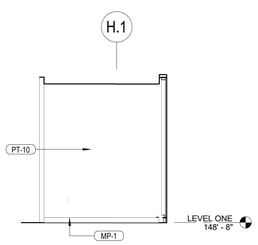

16 EAST ELEVATION - SOUTH STUDY
1/4" = 1'-0"



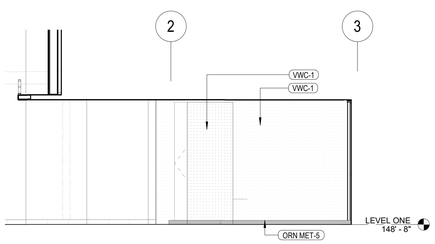

17 WEST ELEVATION - SOUTH STUDY
1/4" = 1'-0"



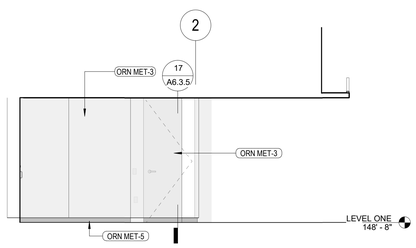

18 EAST ELEVATION - NORTH STUDY
1/4" = 1'-0"




19 WEST ELEVATION - NORTH STUDY
1/4" = 1'-0"




2 SOUTH ELEVATION - STUDIO THEATRE ENTRY
1/4" = 1'-0"




1 NORTH ELEVATION - STUDIO THEATRE ENTRY
1/4" = 1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
INTERIOR ELEVATIONS - LOBBY

Project Number: 3995-001-00
Drawn By: Designer
Scale: 1/4" = 1'-0"
Seal:

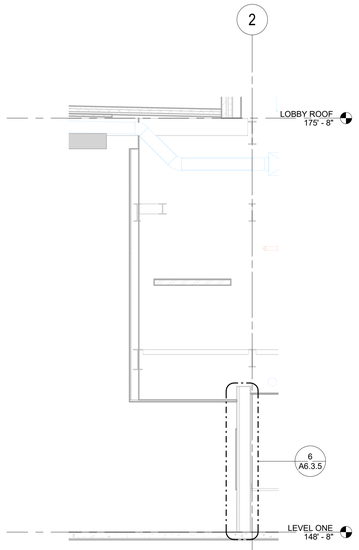
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

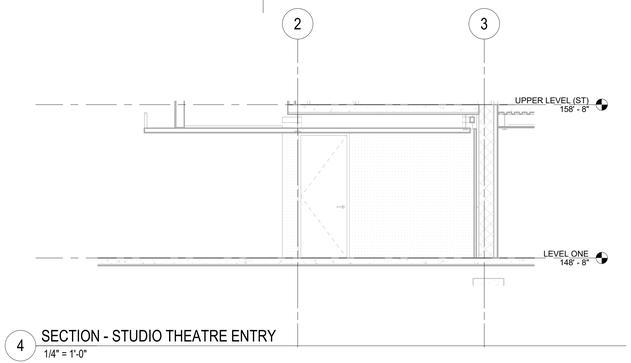
Drawing No:
A6.3.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

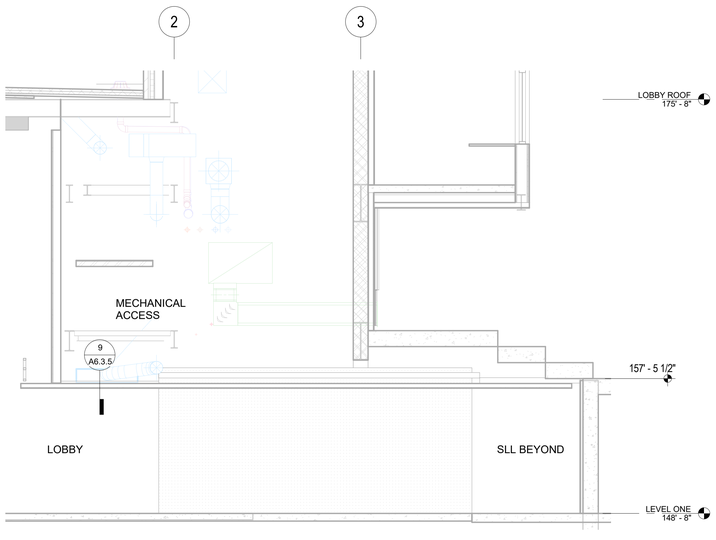
Sheet Size: 30" x 42"
- Template Version



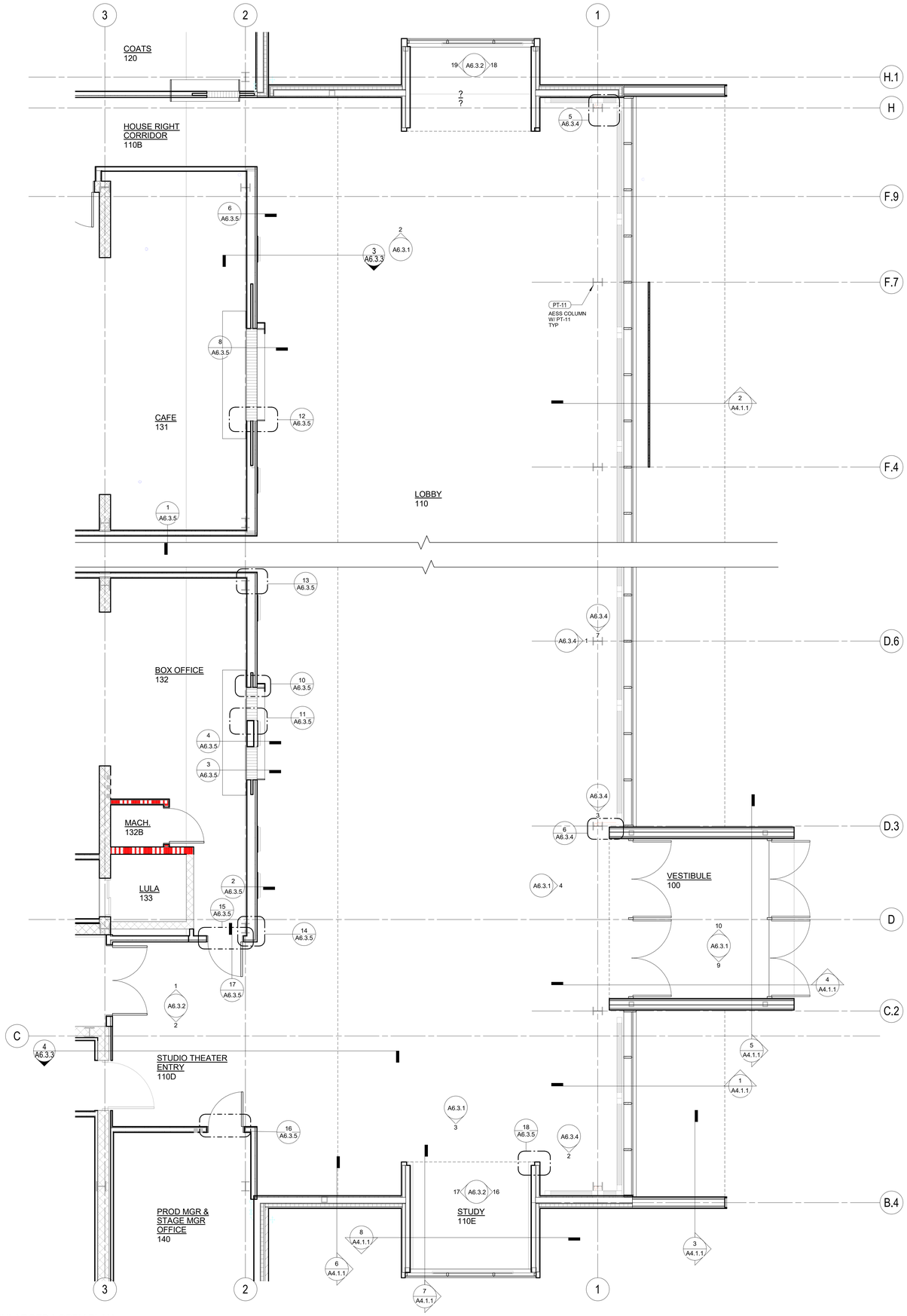

3 SECTION - LOBBY FEATURE WALL
1/4" = 1'-0"




4 SECTION - STUDIO THEATRE ENTRY
1/4" = 1'-0"




2 SECTION - THEATRE ENTRY
1/4" = 1'-0"




1 ENLARGED LOBBY PLAN
1/4" = 1'-0"

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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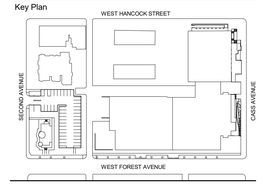
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
SECTIONS & ENLARGED PLANS - LOBBY

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

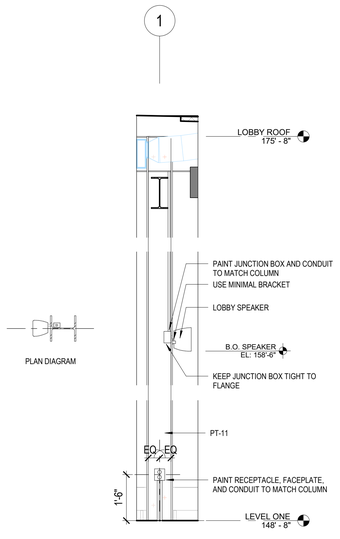
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

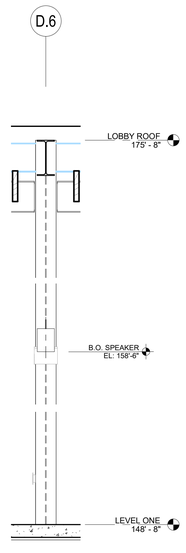
Drawing No:
A6.3.3

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

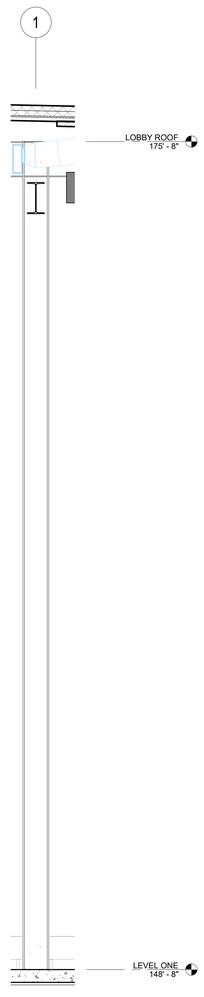
Sheet Size: 30" x 42"
: Template Version



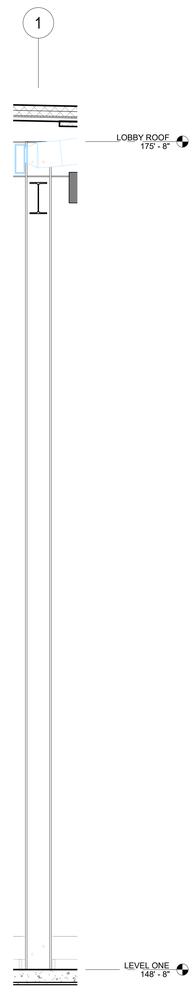

7 DEVICE DIAGRAM - FLANGE ELEV NORTH
1/2" = 1'-0"



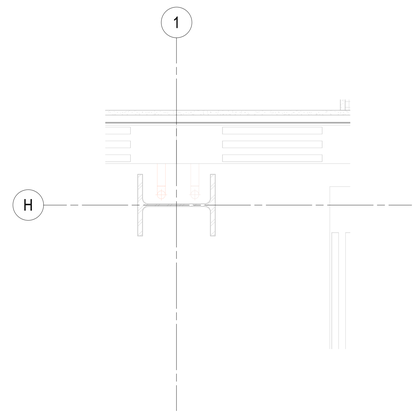

1 DEVICE DIAGRAM - LOBBY COLUMN
1/2" = 1'-0"



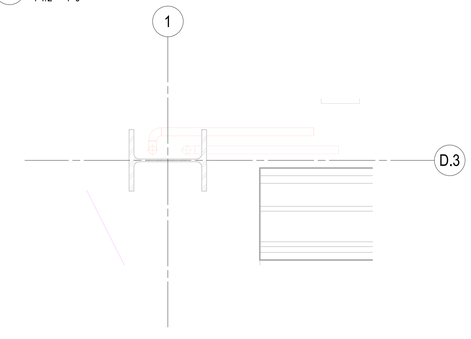

2 DEVICE DIAGRAM - FLANGE ELEV SOUTH
1/2" = 1'-0"




3 DEVICE DIAGRAM - FLANGE ELEV VESTIBULE
1/2" = 1'-0"




5 PLAN DETAIL - NORTH LOBBY COLUMN
1 1/2" = 1'-0"




6 PLAN DETAIL - VESTIBULE COLUMN
1 1/2" = 1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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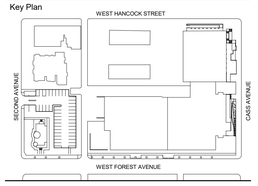
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
DEVICE DIAGRAMS - LOBBY

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

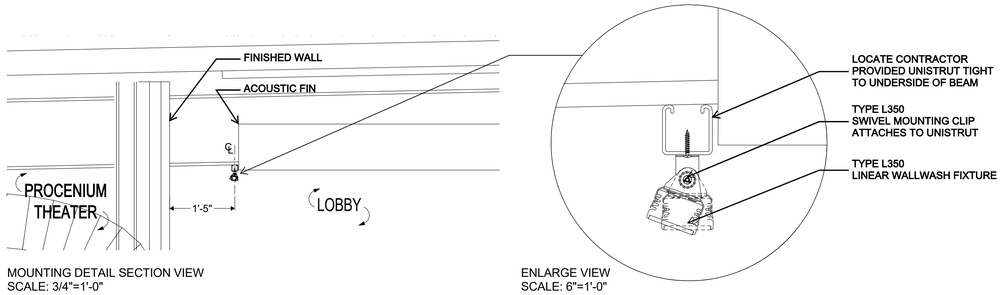
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
A6.3.4

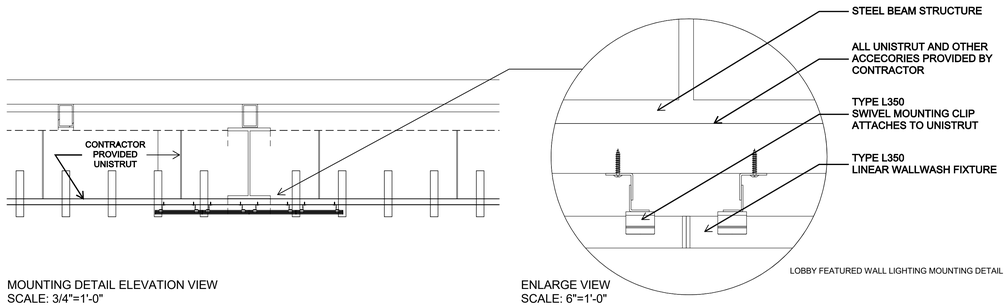
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




MOUNTING DETAIL SECTION VIEW
SCALE: 3/4"=1'-0"

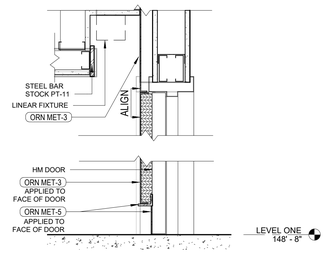
ENLARGE VIEW
SCALE: 6"=1'-0"



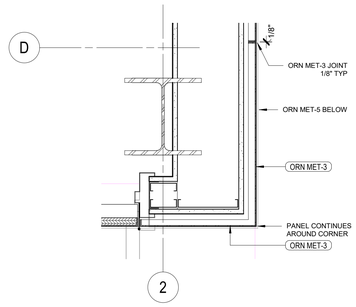

MOUNTING DETAIL ELEVATION VIEW
SCALE: 3/4"=1'-0"

ENLARGE VIEW
SCALE: 6"=1'-0"

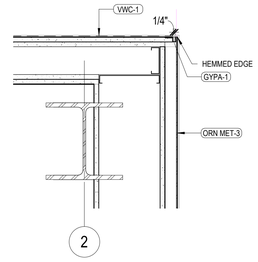
19 LOBBY FEATURED WALL LIGHTING MOUNTING DETAIL
3/4" = 1'-0"



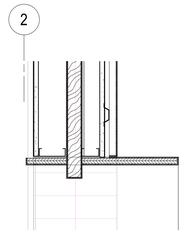

17 HM FRAME DETAIL - CONCEALED FRAME A
1 1/2" = 1'-0"



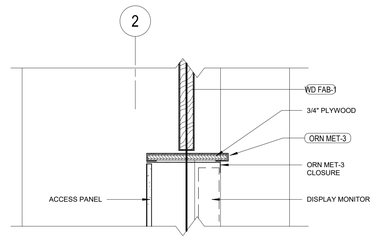

14 PLAN DETAIL - MP-3 CORNER
1 1/2" = 1'-0"



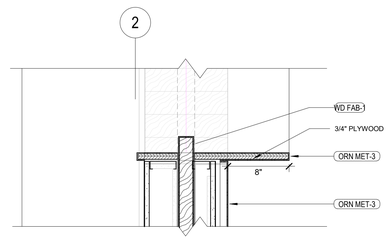

13 PLAN DETAIL - THEATRE ENTRY
1 1/2" = 1'-0"



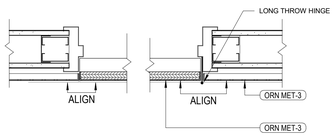

10 PLAN DETAIL - BOX OFFICE
1 1/2" = 1'-0"



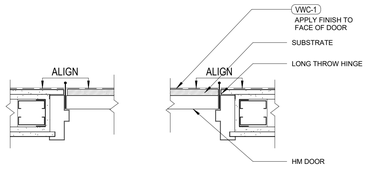

11 PLAN DETAIL - BOX OFFICE DISPLAY
1 1/2" = 1'-0"



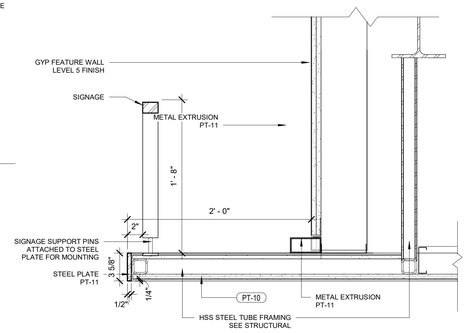

12 PLAN DETAIL - CAFE OPENING
1 1/2" = 1'-0"



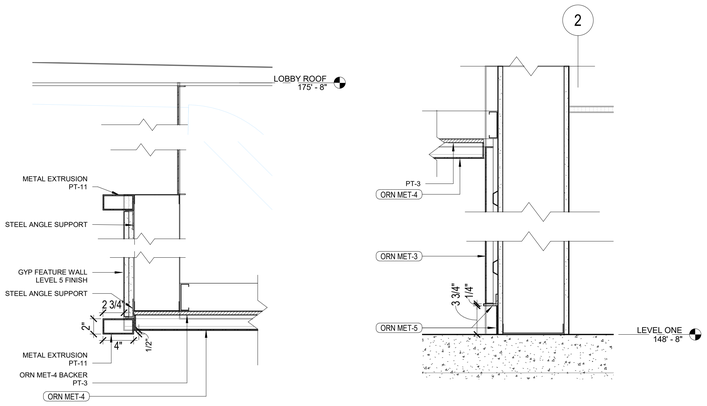

15 PLAN DETAIL - HM CONCEALED FRAME A
1 1/2" = 1'-0"




16 PLAN DETAIL - HM CONCEALED FRAME B
1 1/2" = 1'-0"

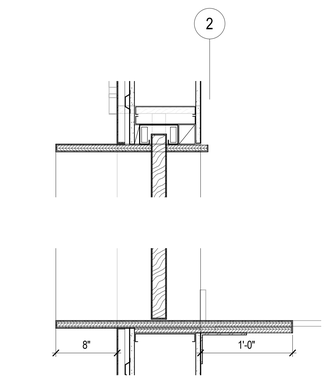



7 DETAIL - THEATRE ENTRY CANOPY
1 1/2" = 1'-0"

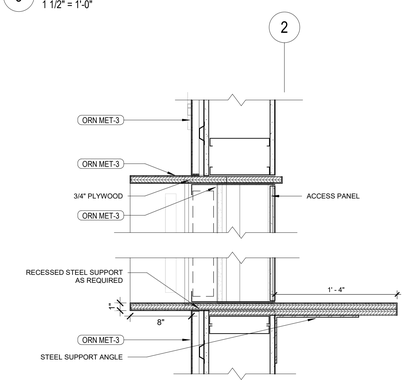



5 DETAIL - FEATURE WALL
1 1/2" = 1'-0"

6 DETAIL - WEST LOBBY WALL
1 1/2" = 1'-0"




8 DETAIL - CAFE OPENING
1 1/2" = 1'-0"




4 DETAIL - BOX OFFICE DISPLAY SCREEN
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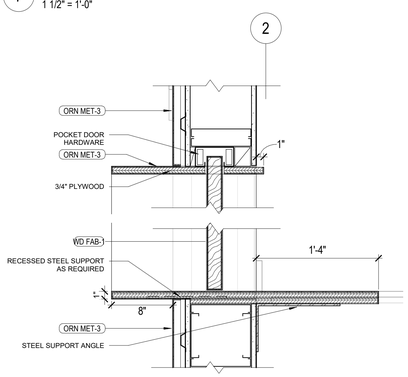
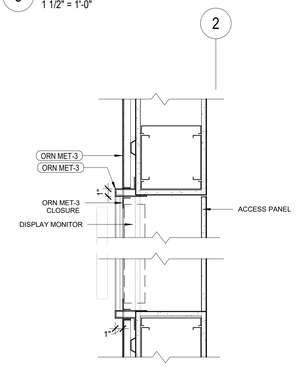
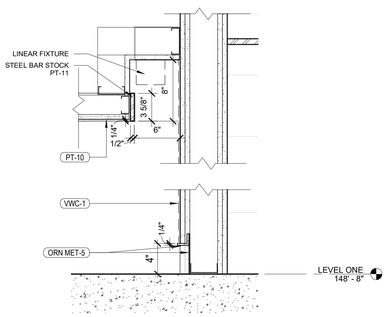


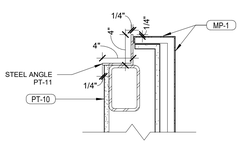

3 DETAIL - BOX OFFICE OPENING
1 1/2" = 1'-0"



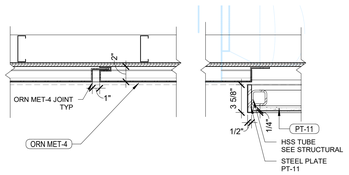

2 DETAIL - LOBBY RECESSED MONITOR
1 1/2" = 1'-0"




1 DETAIL - VINYL WALL GRAPHIC
1 1/2" = 1'-0"




18 PLAN DETAIL - LOBBY STICKY SPACE
1 1/2" = 1'-0"




9 DETAIL - THEATRE ENTRY @ LOW CEILING
1 1/2" = 1'-0"

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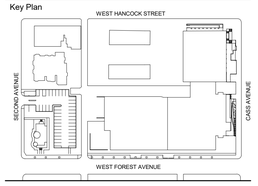
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
INTERIOR DETAILS - LOBBY

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

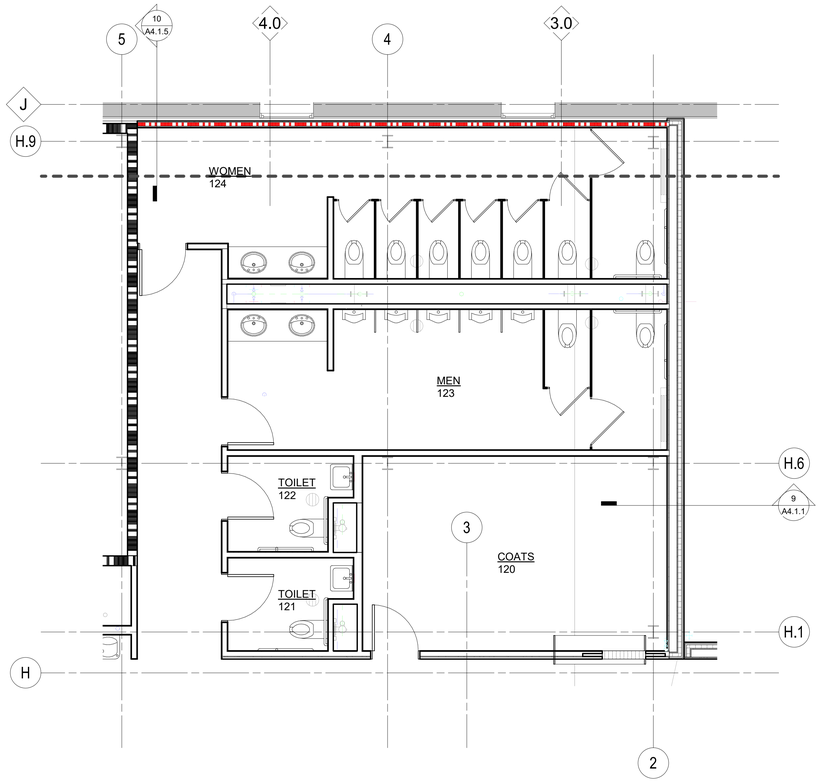
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

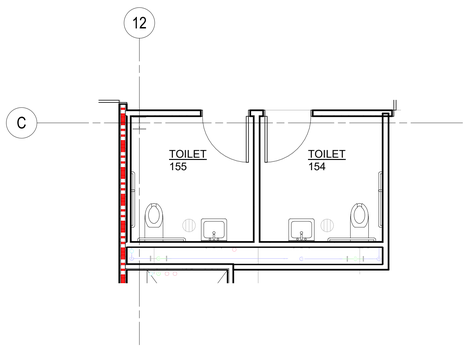
Drawing No:
A6.3.5

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

Sheet Size: 30" x 42"
- Template Version




1 ENLARGED PLAN - TOILET ROOMS 121, 122, 123 & 124
1/4" = 1'-0"




2 ENLARGED PLAN - TOILET ROOMS 154 & 155
1/4" = 1'-0"

## GENERAL NOTES - ENLARGED TOILET ROOM PLANS AND ELEVATIONS

A. SEE FINISH PLANS AND REFLECTED CEILING PLANS FOR ADDITIONAL FINISH INFORMATION
B. SEE KEYNOTES FOR REFERENCES TO ADDITIONAL DRAWINGS AND SUPPLEMENTAL ROOM FINISH INFORMATION
C. DIRECTION WALL INDICATORS (NORTH, SOUTH, EAST, WEST) REFER TO THE "PLAN" NORTH ORIENTATION
D. FLAME SPREAD RATINGS FOR ALL FINISH MATERIALS SHALL CONFORM TO THE APPLICABLE REGULATORY STANDARDS
E. SEE DETAIL 2 / A7.5.2 FOR TILE ACCESSORY DETAILS
F. SEE DETAILS ON SHEET A7.5.1 FOR ADDITIONAL INFORMATION AT SHOWERS.
G. SEE DETAIL 4 / A7.5.1 FOR FLOOR TRANSITION DETAILS
H. AT EACH SHOWER PROVIDE SHFS-1, SCH-1 AND SCHR-1
I. AT SHOWERS PROVIDE FULL HEIGHT CTW-2 AT ALL WALLS AND CTF-2 AT FLOORS.
J. AT TOILET ROOMS IN SECTOR C AND NON-PUBLIC AREAS OF SECTOR BPROVIDE CTW-1 AT WET WALLS TO 5'-0" AFF, PT-1 ABOVE.
K. AT PUBLIC TOILET ROOMS IN SECTOR B, PROVIDE CTW-3 FULL HEIGHT AT LAVATORY COUNTERS. ON REMAINDER OF WET WALLS (OR WHERE LAVS ARE WALL MOUNTED, PROVIDE CTW-1 FULL HEIGHT.
L. LAVATORY COUNTERS TO BE SSF-1.
M. PROVIDE MIR-1 AT ALL LAVATORIES

GENERAL NOTES - ENARGED TOILET ROOM PLANS & ELEVATIONS
1/8" = 1'-0"

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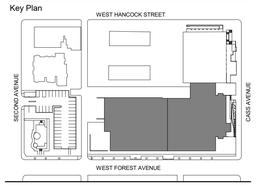
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## ENLARGED TOILET ROOM PLANS AND ELEVATIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

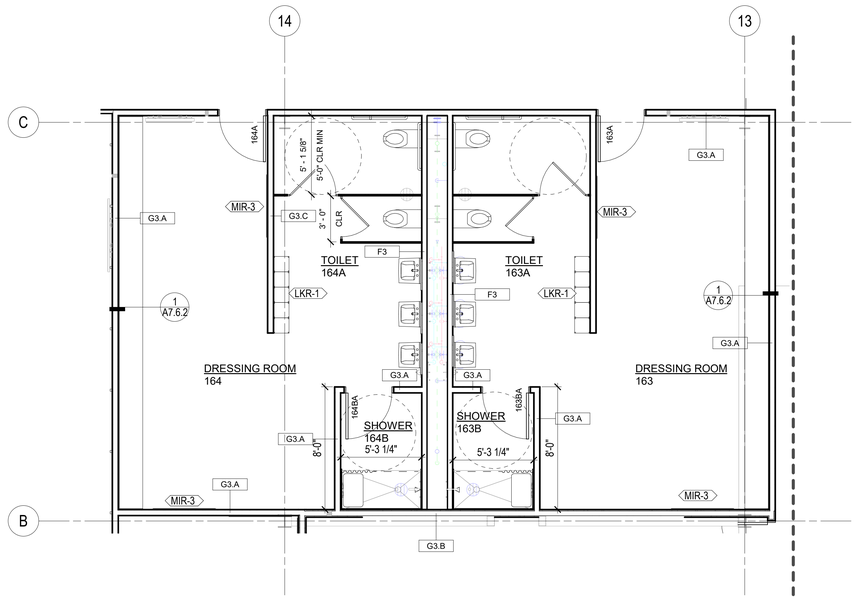
Drawing No:

PLAN NORTH TRUE NORTH

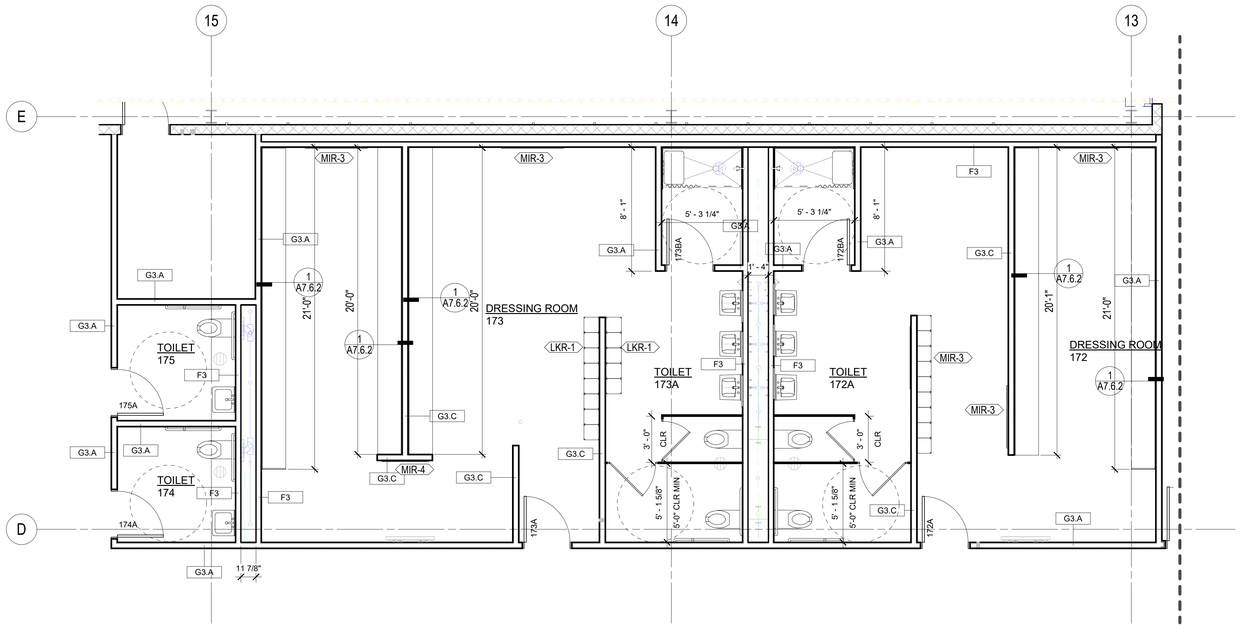
# A6.5.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 ENLARGED PLAN - DRESSING & TOILET ROOMS 163 & 164
1/4" = 1'-0"




2 ENLARGED PLAN - DRESSING & TOILET ROOMS 172, 173, 174 & 175
1/4" = 1'-0"

## GENERAL NOTES - ENLARGED TOILET ROOM PLANS AND ELEVATIONS

A. SEE FINISH PLANS AND REFLECTED CEILING PLANS FOR ADDITIONAL FINISH INFORMATION
B. SEE KEYNOTES FOR REFERENCES TO ADDITIONAL DRAWINGS AND SUPPLEMENTAL ROOM FINISH INFORMATION
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E. SEE DETAIL 2/A7.5.2 FOR TILE ACCESSORY DETAILS
F. SEE DETAILS ON SHEET A7.5.1 FOR ADDITIONAL INFORMATION AT SHOWERS.
G. SEE DETAIL 4/A7.5.1 FOR FLOOR TRANSITION DETAILS
H. AT EACH SHOWER PROVIDE SHFS-1, SCH-1 AND SCHR-1
I. AT SHOWERS PROVIDE FULL HEIGHT CTW-2 AT ALL WALLS AND CTF-2 AT FLOORS.
J. AT TOILET ROOMS IN SECTOR C AND NON-PUBLIC AREAS OF SECTOR BPROVIDE CTW-1 AT WET WALLS TO 5'-0" AFF, PT-1 ABOVE.
K. AT PUBLIC TOILET ROOMS IN SECTOR B, PROVIDE CTW-3 FULL HEIGHT AT LAVATORY COUNTERS. ON REMAINDER OF WET WALLS (OR WHERE LAVS ARE WALL MOUNTED, PROVIDE CTW-1 FULL HEIGHT.
L. LAVATORY COUNTERS TO BE SSF-1.
M. PROVIDE MIR-1 AT ALL LAVATORIES

GENERAL NOTES - ENARGED TOILET ROOM PLANS & ELEVATIONS
1/8" = 1'-0"

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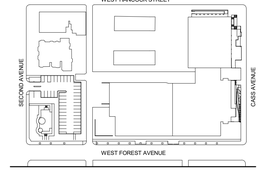
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
ENLARGED TOILET ROOM PLANS AND ELEVATIONS

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

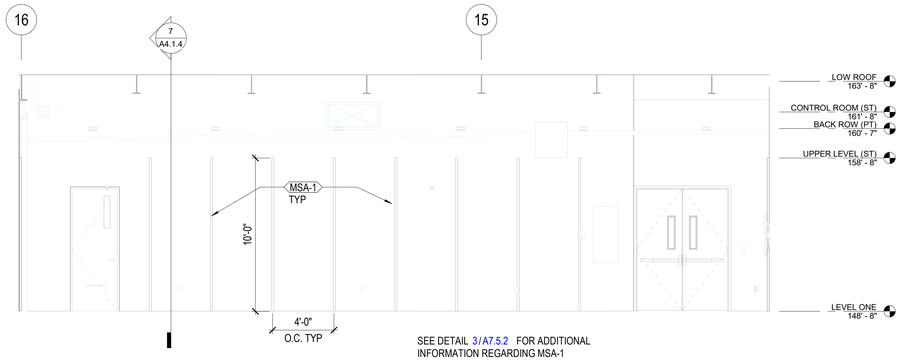
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

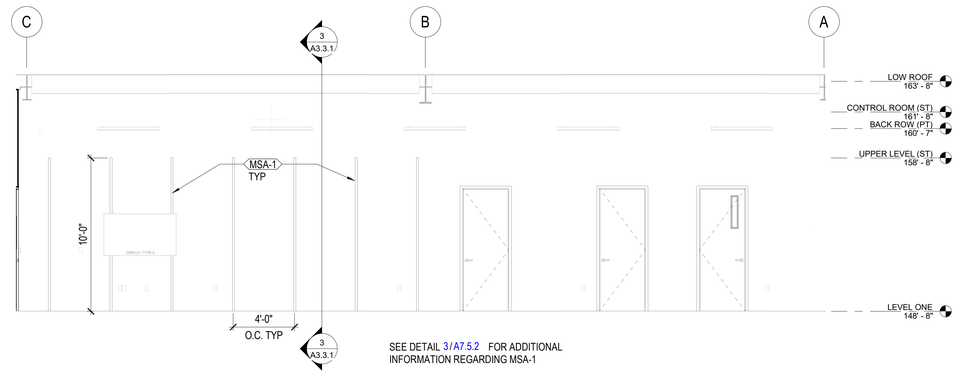
Drawing No:
A6.5.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

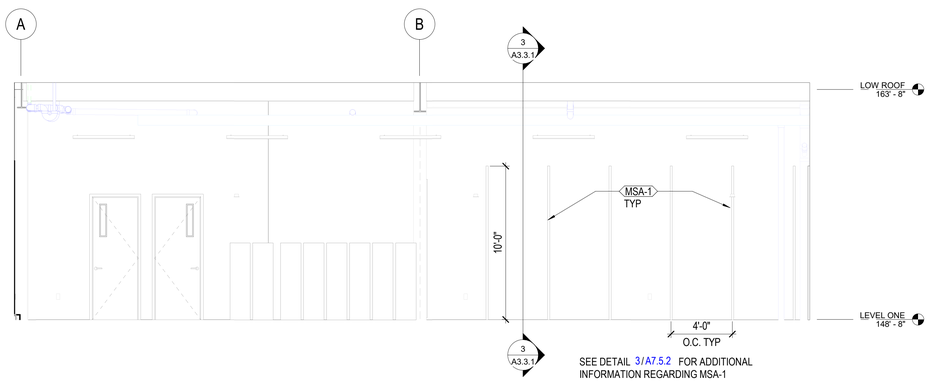
Sheet Size: 30" x 42"
- Template Version



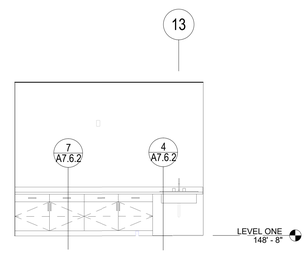

1 COSTUME SHOP ELEVATION - NORTH
1/4" = 1'-0"



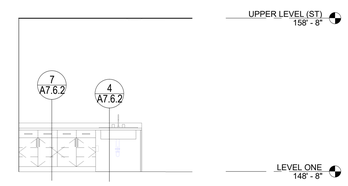

2 COSTUME SHOP ELEVATION - EAST
1/4" = 1'-0"



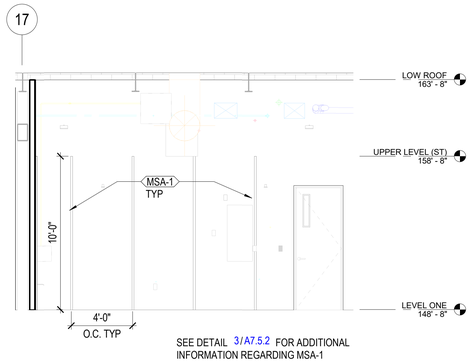

3 COSTUME SHOP ELEVATION - WEST
1/4" = 1'-0"



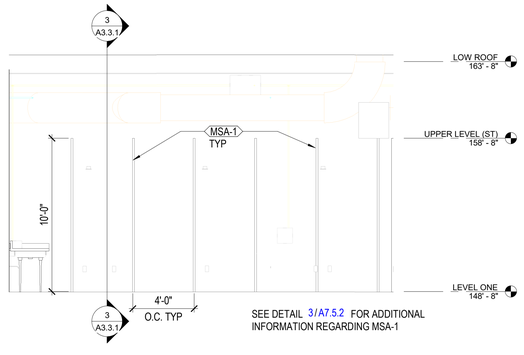

4 PERFORMER LOUNGE ELEVATION - NORTH
1/4" = 1'-0"



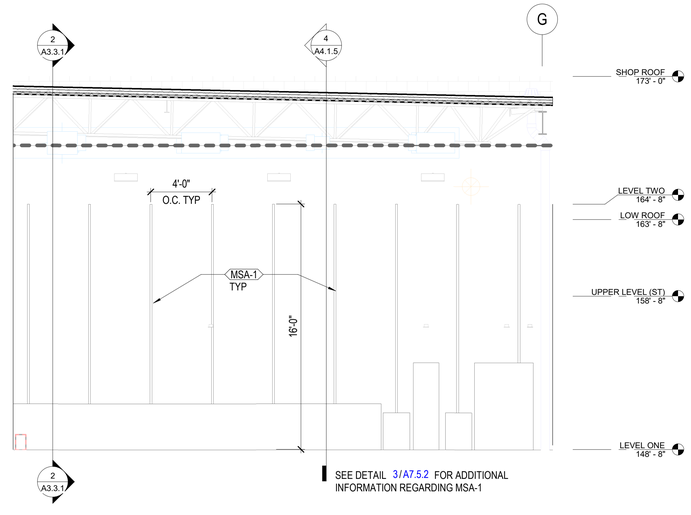

5 BREAK ROOM ELEVATION - EAST
1/4" = 1'-0"




6 PROP SHOP ELEVATION - NORTH
1/4" = 1'-0"




7 PROP SHOP ELEVATION - WEST
1/4" = 1'-0"




8 METAL SHOP ELEVATION - WEST
1/4" = 1'-0"

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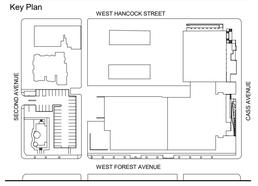
DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# INTERIOR ELEVATIONS - PRODUCTION WING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

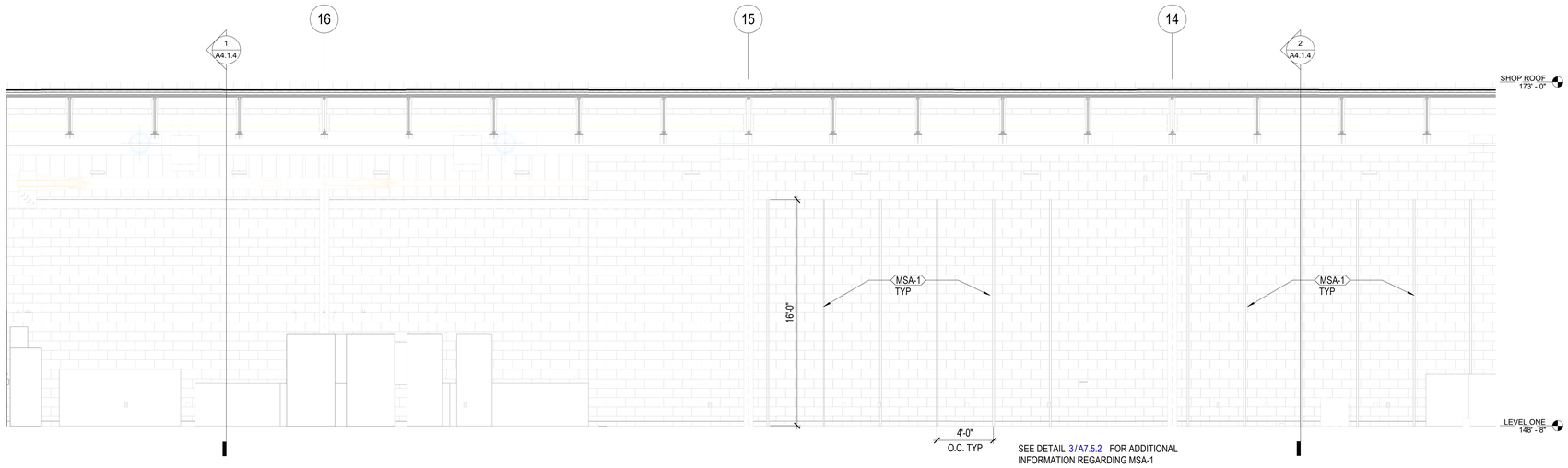
Signature:

Drawing No:

# A6.6.1

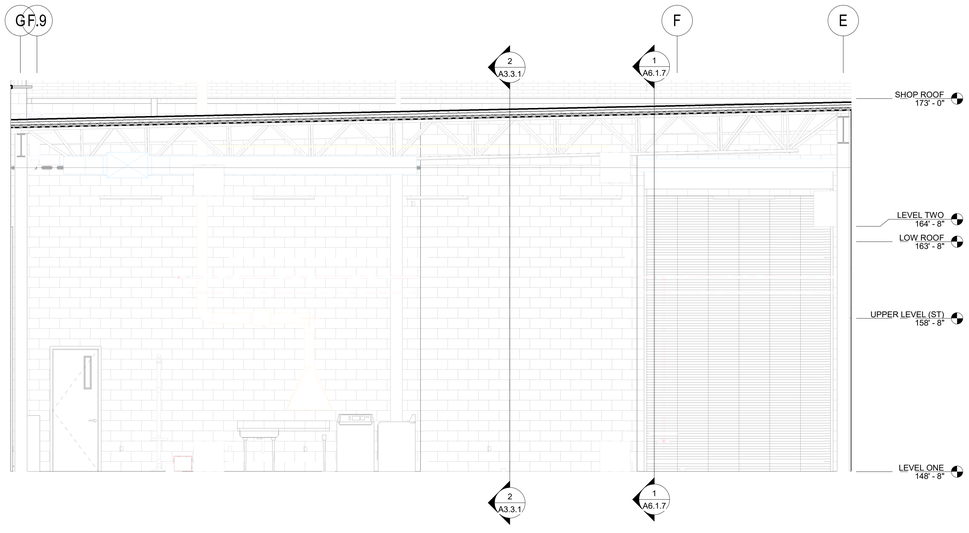
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version

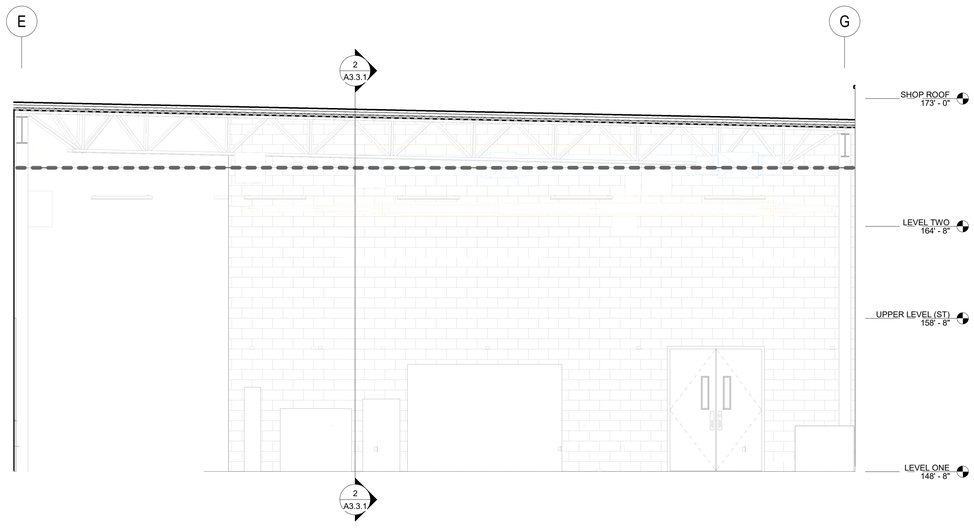



SEE DETAIL 3/A7.5.2 FOR ADDITIONAL INFORMATION REGARDING MSA-1

1 SCENE SHOP ELEVATION - NORTH
1/4" = 1'-0"




2 SCENE SHOP ELEVATION - EAST
1/4" = 1'-0"




3 SCENE SHOP ELEVATION - WEST
1/4" = 1'-0"

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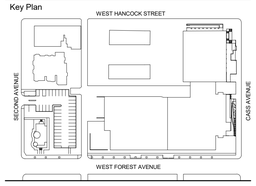
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# INTERIOR ELEVATIONS - PRODCUTION WING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

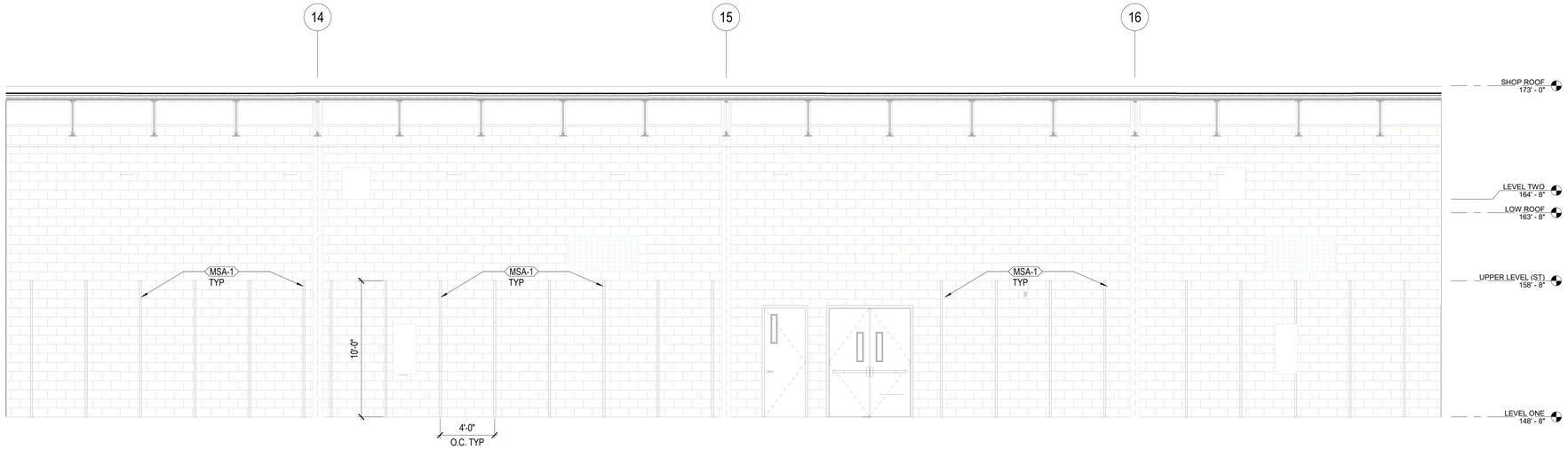
Signature:

Drawing No:

# A6.6.2

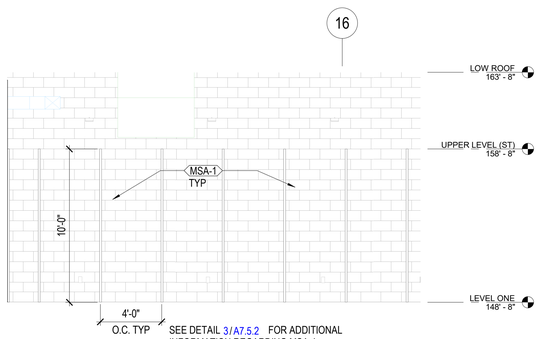
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version



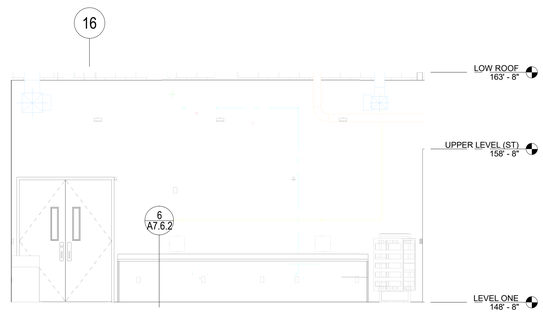

SEE DETAIL 3/A7.5.2 FOR ADDITIONAL INFORMATION REGARDING MSA-1

1 SCENE SHOP ELEVATION - SOUTH
1/4" = 1'-0"

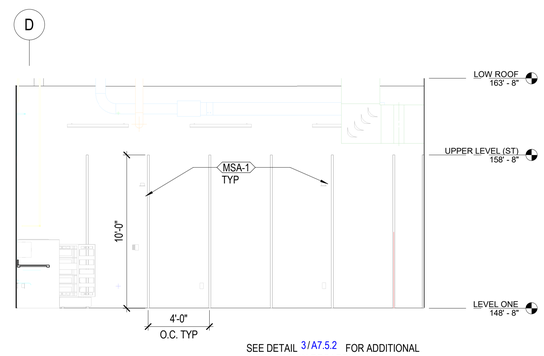



SEE DETAIL 3/A7.5.2 FOR ADDITIONAL INFORMATION REGARDING MSA-1

2 ELEC/SOUND SHOP ELEVATION - NORTH
1/4" = 1'-0"




3 ELEC/SOUND SHOP ELEVATION - SOUTH
1/4" = 1'-0"




SEE DETAIL 3/A7.5.2 FOR ADDITIONAL INFORMATION REGARDING MSA-1

4 ELEC/SOUND SHOP ELEVATION - WEST
1/4" = 1'-0"

HamiltonAnderson
architecture landscape architecture urban design

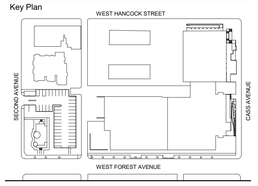
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
INTERIOR ELEVATIONS - PRODUCTION WING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

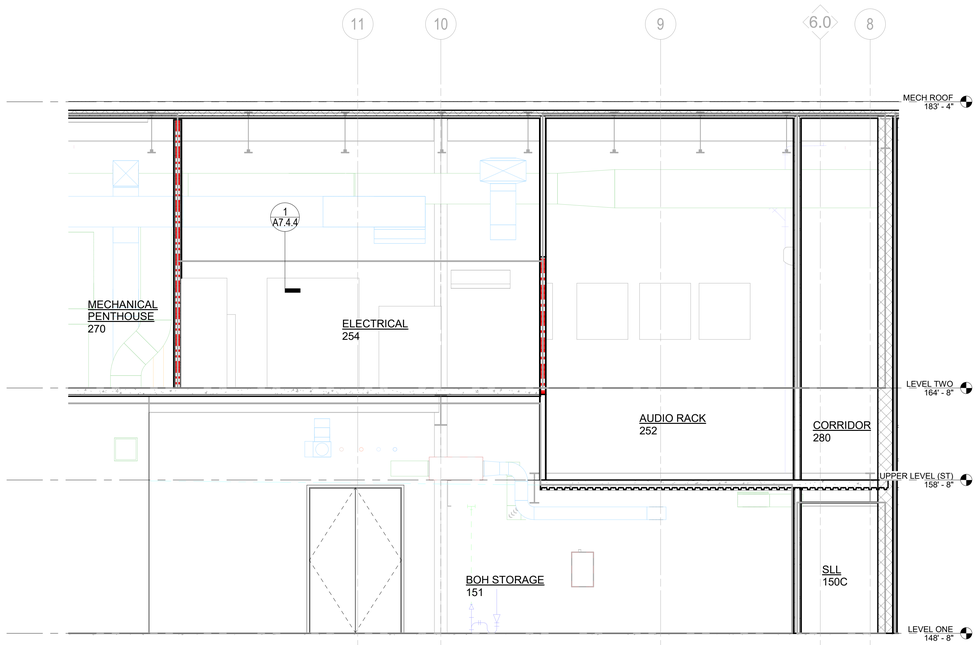
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
A6.6.3

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
: Template Version




1 ELECTRICAL ROOM SECTION
1/4" = 1'-0"

HamiltonAnderson
architecture landscape architecture urban design

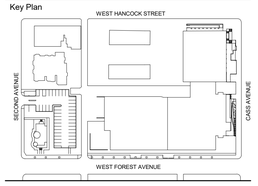
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# INTERIOR ELVATIONS/ INTERIOR SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A6.6.4

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

## DOOR AND INTERIOR OPENING SCHEDULE - GATEWAY THEATER

| NUMBER | RATING | SIZE WIDTH | SIZE HEIGHT | DOOR DOOR TYPE | DOOR MATERIAL | DOOR FINISH | FRAME FRAME TYPE | FRAME MATERIAL | FRAME FINISH | HEAD | JAMB | HARDWARE | GLASS TYPE | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BASEMENT | | | | | | | | | | | | | | |
| 010A | 90 | 6' - 0" | 7' - 0" | F | HM | PT | WA-R | HM | PT | | | 53.0 | | |
| 010B | 90 | 6' - 0" | 7' - 0" | F | HM | PT | WA-R | HM | PT | | | 55.0 | | |
| 011 | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 27.0 | | |
| 011A | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 26.0 | | |
| 011B | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 27.0 | | |
| 011CA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 012 | 90 | 6' - 0" | 7' - 0" | F | HM | PT | WA-R | HM | PT | | | 53.0 | | |
| 013 | 90 | 6' - 0" | 7' - 0" | F | HM | PT | WA-R | HM | PT | | | 53.0 | | |
| 015 | 90 | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 40.0 | | |
| 017 | 90 | 3' - 0" | 7' - 0" | N | HM | PT | HM | HM | PT | | | 28.0 | | |
| 018 | 90 | 6' - 0" | 7' - 0" | F | HM | PT | WA-R | HM | PT | | | 53.0 | | |
| 019 | 90 | 6' - 0" | 7' - 0" | F | HM | PT | WA-R | HM | PT | | | 35.0 | | |
| 020 | 90 | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 10.0 | | |
| LEVEL ONE | | | | | | | | | | | | | | |
| 100A | | 6' - 8" | 7' - 11" | | | | | | | | | | | AFS FRAME |
| 100A.2 | | 3' - 4" | 7' - 11" | | | | | | | | | 5.0 | | AFS DOOR, GL-21 |
| 100A.2 | | 3' - 4" | 7' - 11" | | | | | | | | | 4.0 | | AFS DOOR, GL-21 |
| 100B | | 6' - 8" | 7' - 11" | | | | | | | | | | | AFS FRAME |
| 100B.1 | | 3' - 4" | 7' - 11" | | | | | | | | | 4.0 | | AFS DOOR, GL-21 |
| 100B.2 | | 3' - 4" | 7' - 11" | | | | | | | | | 2.0 | | AFS DOOR, GL-21 |
| 100C | | 6' - 8" | 7' - 11" | | | | | | | | | | | AFS FRAME |
| 100C.1 | | 3' - 4" | 7' - 11" | | | | | | | | | 11.0 | | AFS DOOR, GL-21 |
| 100C.2 | | 3' - 4" | 7' - 11" | | | | | | | | | 11.0 | | AFS DOOR, GL-21 |
| 100D | | 6' - 8" | 7' - 11" | | | | | | | | | | | AFS FRAME |
| 100D.1 | | 3' - 4" | 7' - 11" | | | | | | | | | 12.0 | | AFS DOOR, GL-21 |
| 100D.2 | | 3' - 4" | 7' - 11" | | | | | | | | | 11.0 | | AFS DOOR, GL-21 |
| 110BA | | 3' - 0" | 7' - 11" | | | | | | | | | | | AFS FRAME |
| 110BA.1 | | 3' - 0" | 7' - 11" | | | | | | | | | 6.0 | | AFS DOOR, GL-21 |
| 120A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 36.0 | | |
| 121A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 48.0 | | |
| 122A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 48.0 | | |
| 123A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 31.0 | | |
| 123A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 58.0 | | |
| 124A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 59.0 | | |
| 125A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 33.0 | | |
| 126A | | 6' - 0" | 8' - 0" | F | HM | PT | WD1 | HM | PT | | | 65.0 | | |
| 126B | | 8' - 0" | 10' - 0" | | | | | | | | | | | OVERHEAD COILING DOOR |
| 126C | | 3' - 0" | 6' - 8" | F | HM | PT | WA | HM | PT | | | 8.0 | | |
| 127A | 60 | 6' - 0" | 8' - 0" | F | HM | PT | WA-R | HM | PT | | | 15.0 | | |
| 128A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 37.0 | | |
| 131 | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 31.0 | | |
| 132BA | 90 | 3' - 0" | 7' - 0" | N | HM | PT | WA | HM | PT | | | 40.0 | GL-1T | |
| 134A | | 6' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 19.0 | | |
| 134B | | 6' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 19.0 | | |
| 134CA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 21.0 | | |
| 134CB | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 134DA | | 3' - 6" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 9.0 | | |
| 134DB | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 29.0 | | |
| 134E | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 14.0 | | |
| 135A | | 6' - 0" | 8' - 0" | F | HM | PT-3 | WA | HM | PT-3 | | | | | |
| 135B | | 6' - 0" | 8' - 0" | F | HM | PT-3 | WA | HM | PT-3 | | | 24.0 | | |
| 136A | 90 | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 23.0 | | |
| 136C | 90 | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 22.0 | | |
| 136D | 90 | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 22.0 | | |
| 136E | 90 | 12' - 6" | 18' - 0" | | | | | | | | | | | ACOUSTIC SLIDER |
| 140A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 41.0 | | |
| 145 | | 6' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 18.0 | | |
| 150AA | | 4' - 0" | 8' - 0" | F | WD | PT | WA | HM | PT | | | 21.0 | | |
| 150AB | | 4' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 64.0 | | |
| 150BA | | 4' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 21.0 | | |
| 150BB | | 4' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 64.0 | | |
| 150CA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 21.0 | | |
| 150CB | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 64.0 | | |
| 150CC | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 62.0 | | |
| 150CD | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 150E | | 12' - 6" | 9' - 6" | | | | | | | | | | | ACOUSTIC SLIDER |
| 150HH | 90 | 7' - 0" | 9' - 6" | F | HM | PT | WA | HM | PT | | | 25.0 | | |
| 151A | | 6' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 13.0 | | |
| 153A | | 6' - 0" | 9' - 6" | F | HM | PT | WA | HM | PT | | | 50.0 | | |
| 154A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 47.0 | | |
| 155A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 47.0 | | |
| 160AA | | 7' - 0" | 9' - 6" | F | HM | PT | WA | HM | PT | | | | | |
| 160DA | | 3' - 0" | 7' - 11" | | | | | | | | | | | EXTERIOR WEST |
| 161A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 42.0 | GL-1T | |
| 162A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 31.0 | GL-1T | |
| 163A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 54.0 | | |
| 163BA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 49.0 | | |
| 164A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 54.0 | | |
| 164BA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 49.0 | | |
| 165A | | 6' - 0" | 8' - 0" | N | HM | PT | WA-R | HM | PT | | | 17.0 | | |
| 165AA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 46.0 | | |
| 165B | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 33.0 | GL-1T | |
| 166BA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 46.0 | | |
| 165CA | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 41.0 | GL-1T | |
| 165DA | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 41.0 | GL-1T | |
| 165EA | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 43.0 | GL-1T | |
| 165FA | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | | GL-1T | |
| 166A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 33.0 | GL-1T | |
| 166AA | 45 | 3' - 0" | 4' - 0" | N | HM | PT | WA | HM | PT | | | 57.0 | GL-1T | |
| 166AB | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 56.0 | GL-1T | |
| 167A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 33.0 | GL-1T | |
| 167AA | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 45.0 | GL-1T | |
| 170A | | 3' - 6" | 6' - 8" | N | HM | PT | HM | HM | PT | | | | | GL-21 |
| 170B | | 3' - 6" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 170F | 90 | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 171A | | 6' - 0" | 8' - 0" | F | HM | PT | WA-R | HM | PT | | | 34.0 | | |
| 172A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 54.0 | | |
| 172BA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 49.0 | | |
| 173A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 54.0 | | |
| 173BA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 49.0 | | |
| 174A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 47.0 | | |
| 175A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 47.0 | | |
| 176A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 42.0 | GL-1T | |
| 177A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 20.0 | GL-1T | |
| 177AA | | 6' - 0" | 8' - 0" | N | HM | PT | WA-R | HM | PT | | | 17.0 | | |
| 177B | | 12' - 0" | 18' - 0" | | | | | | | | | | | OVERHEAD COILING DOOR |
| 177BA | | 6' - 0" | 8' - 0" | N | HM | PT | WA-R | HM | PT | | | 51.0 | | |
| 177CA | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 31.0 | GL-1T | |
| 177DA | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 31.0 | GL-1T | |
| 177EA | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 41.0 | GL-1T | |
| 178A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 37.0 | | |
| 179A | 60 | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 14.0 | | |
| 180A | | 6' - 0" | 8' - 0" | F | HM | PT | WA-R | HM | PT | | | 34.0 | | |
| 181A | | 6' - 0" | 8' - 0" | N | HM | PT | WA-R | HM | PT | | | 30.0 | | |
| 182A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 41.0 | GL-1T | |
| 183A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 43.0 | GL-1T | |
| 184A | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 41.0 | GL-1T | |
| 185A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 185B | | 6' - 0" | 8' - 0" | N | HM | PT | WA-R | HM | PT | | | 66.0 | | |
| 185C | | 3' - 0" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 16.0 | GL-1T | |
| 185D | | 12' - 0" | 12' - 0" | | | | | | | | | | | OVERHEAD COILING DOOR |
| 185E | | 12' - 0" | 12' - 0" | | | | | | | | | | | OVERHEAD COILING DOOR |
| 190A | 90 | 3' - 8" | 8' - 0" | N | HM | PT | WA | HM | PT | | | 28.0 | GL-1T | |
| 190B | | 3' - 8" | 10' - 2" | | | | | | | | | | | AFS FRAME |
| 190B.1 | | 3' - 8" | 10' - 2" | | | | | | | | | 9.0 | | AFS DOOR |
| UPPER LEVEL (ST) | | | | | | | | | | | | | | |
| 249A | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 32.0 | | |
| 249B | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 32.0 | | |
| 250A | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 61.0 | | |
| 250B | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 63.0 | | |
| 250C | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 44.0 | | |
| 250D | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | 44.0 | | |
| 252A | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 31.0 | | |
| 253A | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 33.0 | | |
| 290B | 90 | 3' - 0" | 7' - 0" | N | HM | PT | HM | HM | PT | | | | | |
| BACK ROW (PT) | | | | | | | | | | | | | | |
| 234BA | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 234EA | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | | | PT-3 BLACK |
| 234FA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 234FB | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 235A | | 3' - 0" | 8' - 0" | F | HM | PT-3 | WA | HM | PT-3 | | | | | |
| 235B | | 3' - 0" | 8' - 0" | F | HM | PT-3 | WA | HM | PT-3 | | | | | PT-3 BLACK |
| 235C | | 3' - 0" | 8' - 0" | F | HM | PT-3 | WA | HM | PT-3 | | | | | PT-3 BLACK |
| LEVEL TWO | | | | | | | | | | | | | | |
| 254A | 90 | 6' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 15.0 | | |
| 254AA | | 3' - 0" | 8' - 0" | F | HM | PT | WA | HM | PT | | | | | |

## DOOR AND INTERIOR OPENING SCHEDULE - GATEWAY THEATER

| NUMBER | RATING | SIZE WIDTH | SIZE HEIGHT | DOOR DOOR TYPE | DOOR MATERIAL | DOOR FINISH | FRAME FRAME TYPE | FRAME MATERIAL | FRAME FINISH | HEAD | JAMB | HARDWARE | GLASS TYPE | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 270A | | 6' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 52.0 | | |
| 270AA | | 6' - 0" | 7' - 0" | F | HM | PT | WA-R | HM | PT | | | 52.0 | | |
| 270AB | | 6' - 0" | 7' - 0" | F | HM | PT | WA-R | HM | PT | | | 52.0 | | |
| 290A | 90 | 3' - 0" | 7' - 0" | N | HM | PT | HM | HM | PT | | | 28.0 | | |
| CONTROL ROOM (PT) | | | | | | | | | | | | | | |
| 335A | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | 31.0 | | |
| TENSION GRID | | | | | | | | | | | | | | |
| 350A | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| TECH GALLERY (PT) | | | | | | | | | | | | | | |
| 336AA | 90 | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 336BA | 90 | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| LOBBY ROOF | | | | | | | | | | | | | | |
| 435 | | 3' - 0" | 7' - 0" | F | HM | PT-3 | WA | HM | PT-3 | | | | | |
| CATWALK #2 (PT) | | | | | | | | | | | | | | |
| 435A | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | | | |
| 435B | | 3' - 0" | 7' - 0" | F | HM | PT | WA | HM | PT | | | | | |

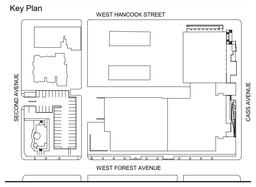
HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# DOOR SCHEDULE - NEW CONSTRUCTION

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

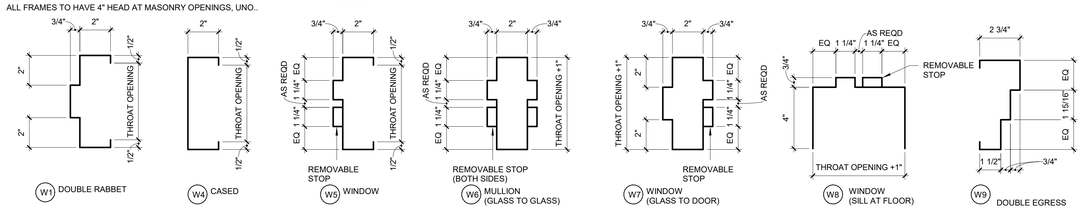
# A7.1.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

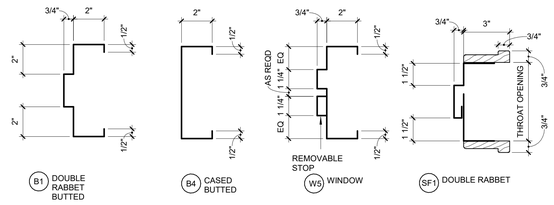
Sheet Size: 30" x 42"
- Template Version

## HOLLOW METAL FRAME PROFILES

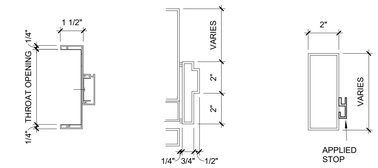
ALL FRAMES TO HAVE 4" HEAD AT MASONRY OPENINGS, UNO..



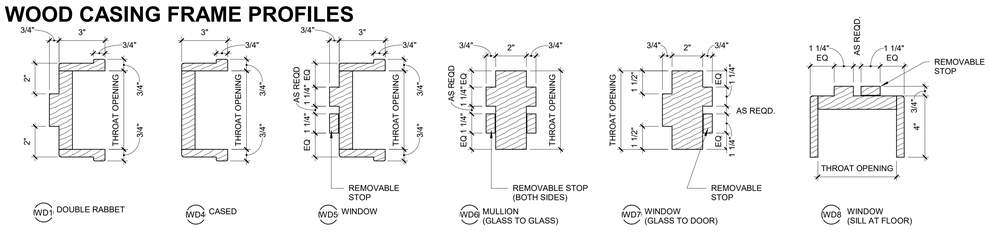

## WOOD CASED SLIP FRAME




## ALUMINUM FRAME

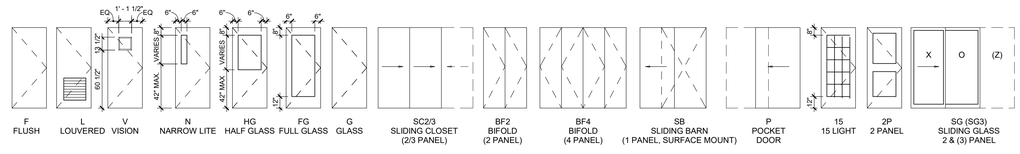



## WOOD CASING FRAME PROFILES

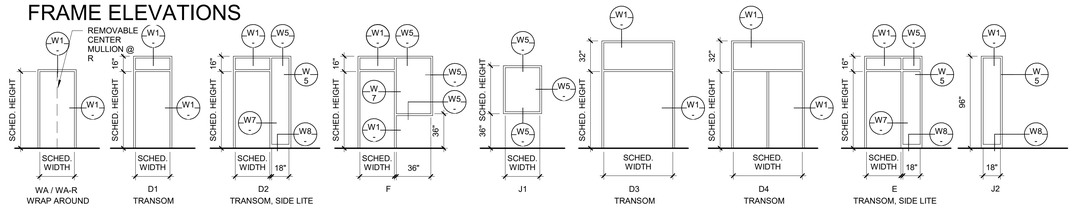



3 FRAME PROFILES
3" = 1'-0"

## DOOR TYPES

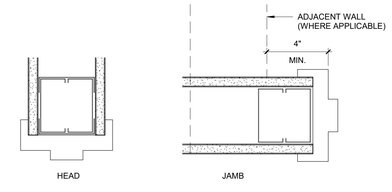



## FRAME ELEVATIONS




2 DOOR AND FRAME TYPES
3/16" = 1'-0"

## TYP. FRAMING HM AND WOOD




1 TYP. FRAMING HM AND WOOD
3" = 1'-0"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| | |
|---|---|
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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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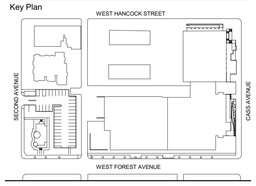
DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# DOOR & FRAME TYPES

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

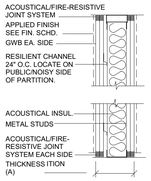
# A7.1.3

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

# PARTITION SYSTEM A

ACOUSTICAL WALLS

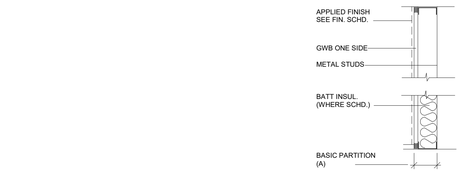



NOTES

| TYPE MARK | PARTITION WIDTH | ASSEMBLY | | | | | | | | | | RATINGS | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CORE WIDTH | STUD SPACING (MAX. O.C.) | GWB THICKNESS (EA. SIDE) | RESILIENT CHANNEL | ACOUSTICAL INSUL. THICKNES | CORE HEIGHT | | | JOINTS | | FIRE RATING | FIRE TEST (UL) | ACOUSTIC AL RATING (STC) | ACOUTICAL TEST NUMBER | |
| | | | | | | | CORE TO STRUCT./ GWB TO STRUCT. | CORE TO STRUCT./ GWB TO 6" ABOVE CEILING | CORE AND GWB TO 6" ABOVE CEILING | ACOUS. | FIRE | | | | | |
| A3.A | 4 7/8" | 3 5/8" | 16" | 5/8" | 25GA / 1/2" SINGLE SIDE | 3" | Yes | No | No | Yes | No | - | - | 54 | RAL-TL83-216 | |
| A3p | 5 7/8" | | | | | | | | | | | | | | | |
| A4a | 5 1/4" | | | | | | | | | | | | | | | |
| A6a | 7 1/4" | | | | | | | | | | | | | | | |

# PARTITION SYSTEM F

FURRED WALLS



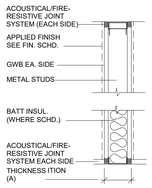

NOTES

1. SUBSTITUTE CEMENT BOARD FOR GWB AT TILE LOCATIONS.

| TYPE MARK | PARTITION WIDTH | ASSEMBLY | | | | | | | | | | RATINGS | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CORE WIDTH | STUD SPACING (MAX. O.C.) | GWB THICKNESS (EA. SIDE) | RESILIENT CHANNEL | ACOUSTICAL INSUL. THICKNES | CORE HEIGHT | | | JOINTS | | FIRE RATING | FIRE TEST (UL) | ACOUSTIC AL RATING (STC) | ACOUTICAL TEST NUMBER | |
| | | | | | | | CORE TO STRUCT./ GWB TO STRUCT. | CORE TO STRUCT./ GWB TO 6" ABOVE CEILING | CORE AND GWB TO 6" ABOVE CEILING | ACOUS. | FIRE | | | | | |
| F0 | 1 1/2" | 7/8" HAT | 24" | 5/8" | - | - | No | No | Yes | No | No | - | - | - | - | |
| F1 | 2 1/8" | 1 1/2" Z | 24" | 5/8" | - | - | No | No | Yes | No | No | - | - | - | - | |
| F1M | 1 5/8" | 1 1/2" Z | 24" | 5/8" | - | - | No | No | Yes | No | No | - | - | - | - | MP-3 AT LOBBY SIDE |
| F1W | 2 1/4" | 1 1/2" Z | 24" | 5/8" | - | - | No | No | Yes | No | No | - | - | - | - | |
| F2 | 3 1/8" | 2 1/2" | 16" | 5/8" | - | 2" | Yes | No | No | Yes | No | - | - | - | - | |
| F3 | 4 1/4" | 3 5/8" | 16" | 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | |
| F3.A | 4 1/4" | 3 5/8" | 16" | 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | |
| F6.2 | 7 1/4" | 6" | 16" | (2) 5/8" | - | - | Yes | No | No | No | No | - | - | - | - | |
| F6.A | 6 5/8" | 6" | 16" | 5/8" | - | - | Yes | No | No | No | No | - | - | - | - | |
| F6.C | 6 5/8" | 6" | 16" | 5/8" | - | - | No | No | Yes | No | No | - | - | - | - | |

# PARTITION SYSTEM G

GYP/MTL STUD WALLS



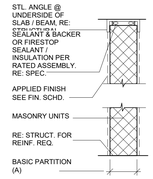

NOTES

ALL MTL. STUD WALL ASSEMBLIES ARE DELEGATED DESIGN BY STUD MFG.

| TYPE MARK | PARTITION WIDTH | ASSEMBLY | | | | | | | | | | RATINGS | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CORE WIDTH | STUD SPACING (MAX. O.C.) | GWB THICKNESS (EA. SIDE) | RESILIENT CHANNEL | ACOUSTICAL INSUL. THICKNES | CORE HEIGHT | | | JOINTS | | FIRE RATING | FIRE TEST (UL) | ACOUSTIC AL RATING (STC) | ACOUTICAL TEST NUMBER | |
| | | | | | | | CORE TO STRUCT./ GWB TO STRUCT. | CORE TO STRUCT./ GWB TO 6" ABOVE CEILING | CORE AND GWB TO 6" ABOVE CEILING | ACOUS. | FIRE | | | | | |
| G3.1 | 4 7/8" | 3 5/8" | 16" | 5/8" | - | 3 1/2" | Yes | No | No | Yes | Yes | 1 HR | U419 | 40 | RAL-TL11-125 | |
| G3.2 | 6 1/8" | 3 5/8" | 16" | (2) 5/8" | - | - | Yes | No | No | No | Yes | 2 HR | U419 | 50 | USG-840817 | |
| G3.A | 4 7/8" | 3 5/8" | 16" | 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | |
| G3.AM1 | 6 1/2" | 3 5/8" | 16" | (2) 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | MP-1 ON LOBBY SIDE |
| G3.AM3 | 6 1/2" | 3 5/8" | 16" | (2) 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | MP-3 ON LOBBY SIDE |
| G3.B | 6 1/8" | 3 5/8" | 16" | (2) 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | |
| G3.BG | 6 1/8" | 3 5/8" | 16" | (2) 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | VINYL WALL GRAPHIC |
| G3.C | 4 7/8" | 3 5/8" | 16" | 5/8" | - | - | No | No | Yes | No | No | - | - | - | - | |
| G6.A | 7 1/4" | 6" | 16" | 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | |
| G8.A | 11 1/8" | 8" | 16" | (3) 5/8" + (2) 5/8" | - | 7 1/2" | Yes | No | No | Yes | No | - | - | - | - | |
| G8.AM3 | 10 7/8" | 3 5/8" | 16" | (2) 5/8" | - | 3 1/2" | Yes | No | No | Yes | No | - | - | - | - | ORN MET-3 ON LOBBY SIDE |

# PARTITION SYSTEM M

MASONRY WALLS



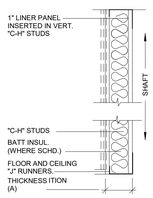

NOTES

REFER TO EXT. WALL SECTIONS FOR STRUCTURAL CMU.

| TYPE MARK | PARTITION WIDTH | ASSEMBLY | | | | | | | | | | RATINGS | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CORE WIDTH | STUD SPACING (MAX. O.C.) | GWB THICKNESS (EA. SIDE) | RESILIENT CHANNEL | ACOUSTICAL INSUL. THICKNES | CORE HEIGHT | | | JOINTS | | FIRE RATING | FIRE TEST (UL) | ACOUSTICAL RATING (STC) | ACOUTICAL TEST NUMBER | |
| | | | | | | | CORE TO STRUCT./ GWB TO STRUCT. | CORE TO STRUCT./ GWB TO 6" ABOVE CEILING | CORE AND GWB TO 6" ABOVE CEILING | ACOUS. | FIRE | | | | | |
| M8.1 | 7 5/8" | 7 5/8" | - | - | - | - | Yes | No | No | No | Yes | 1 HR | U905 | 48 | NCMA TEK 13-1B | |
| M8.2 | 7 5/8" | 7 5/8" | - | - | - | - | Yes | No | No | No | Yes | 2 HR | U905 | 48 | NCMA TEK 13-1B | |
| M8.B | 7 5/8" | 7 5/8" | - | - | - | - | Yes | No | No | Yes | No | - | - | - | - | |
| M8a | 8" | | | | | | | | | | | | | | | |
| M12.2 | 11 5/8" | 11 5/8" | - | - | - | - | Yes | No | No | Yes | Yes | 2 HR | U905 | - | - | GROUT FILLED |
| M12.B | 11 5/8" | 11 5/8" | - | - | - | - | Yes | No | No | Yes | No | - | - | - | - | GROUT FILLED |

# PARTITION SYSTEM S

SHAFT WALLS




NOTES

| TYPE MARK | PARTITION WIDTH | ASSEMBLY | | | | | | | | | | RATINGS | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CORE WIDTH | STUD SPACING (MAX. O.C.) | GWB THICKNESS (EA. SIDE) | RESILIENT CHANNEL | ACOUSTICAL INSUL. THICKNES | CORE HEIGHT | | | JOINTS | | FIRE RATING | FIRE TEST (UL) | ACOUSTICAL RATING (STC) | ACOUTICAL TEST NUMBER | |
| | | | | | | | CORE TO STRUCT./ GWB TO STRUCT. | CORE TO STRUCT./ GWB TO 6" ABOVE CEILING | CORE AND GWB TO 6" ABOVE CEILING | ACOUS. | FIRE | | | | | |
| S4 | 4 5/8" | 4" | 24" | 5/8" & 1" | - | - | Yes | No | No | No | Yes | - | U415 | 39 | USG 040901 | |
| S4.2 | 5 1/4" | 4" | 24" | (2) 5/8" & 1" | - | - | Yes | No | No | No | Yes | 2 HR | U415 | 43 | USG 040912 | |
| S6.2 | 7 1/4" | 6" | 24" | (2) 5/8" & 1" | - | - | Yes | No | No | No | Yes | 2 HR | U415 | 43 | USG 040912 | |

## NOTES

1. PARTITIONS ARE DISTINGUISHED BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A COMBINATION OF BOTH DESIGNATIONS.

G3.2

2. THE FIRST CHARACTER IS A LETTER INDICATING THE PARTITION TYPE.
   - A ACOUSTIC PARTITION
   - F FURRED PARTITION, GYPSUM WALL BOARD (ONE SIDE) OVER FURRING
   - G GYPSUM WALL BOARD (BOTH SIDES) OVER METAL FRAMING
   - M MASONRY PARTITION
   - S SHAFT, GYPSUM WALL BOARD & LINER PANEL ON METAL FRAMING
   - St STACKED, COMBINATION OF A FRAMED PARTITION ON A MASONRY BASE

THE SECOND CHARACTER IS NUMERIC INDICATING THE STUD OR CMU WIDTH.

| NUMERIC CHARACTER | STUD WIDTH | CMU WIDTH |
|---|---|---|
| 0 | 7/8" | |
| 1 | 1 5/8" | |
| 2 | 2 1/2" | |
| 3 | 3 5/8" | |
| 4 | 4" | 3 5/8" |
| 6 | 6" | 5 5/8" |
| 8 | | 7 5/8" |
| 12 | | 11 5/8" |

THE THIRD CHARACTER REFERS TO RATING OR WALL HEIGHT (IF UNRATED).

- A STUDS AND GYPSUM WALL BOARD TO STRUCTURE ABOVE.
- B STUDS TO STRUCTURE ABOVE, GYPSUM WALL BOARD TO 6" ABOVE CEILING.
- C STUDS (BRACED) AND GYPSUM WALL BOARD TO 6" ABOVE CEILING.

THE RATING IS ALSO SHOWN GRAPHICALLY.

| GRAPHIC DESIGNATION | PRIORITY |
|---|---|
| 4 HR FIRE BARRIER | HIGHEST |
| 3 HR FIRE BARRIER | HIGH |
| 2 HR FIRE BARRIER | MEDIUM |
| 1 HR FIRE BARRIER | LOW |
| SMOKE PARTITION (NON RATED) | LOWEST |

3. IF NO SYMBOL DESIGNATION IS PROVIDED, THE STUD SIZE WILL BE 3 5/8".

4. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.

5. ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLAN.

6. THE GRAPHIC DESIGNATION IS INCORPORATED FOR PARTITIONS REQUIRED TO BE SMOKE RESISTANT, FIRE RESISTANT, OR BOTH FIRE AND SMOKE RESISTANT.

7. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.

8. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.

9. FOR PARTITIONS INDICATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO FULL HEIGHT OF PARTITION UNLESS OTHERWISE INDICATED. FLOOR TRACK TO BE SET IN A CONTINUOS BED OF SEALANT.

10. SEALANT:
    1. FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE/SMOKE FIRE RESISTANT FILL MATERIAL IN CONJUNCTION WITH AN APPROPRIATE RATED FIRE/SMOKE FIRE STOPPING SYSTEM.
    2. NON-RATED PARTITIONS AND NON-RATED SMOKE RESISTANT PARTITIONS SHALL USE ACOUSTICAL SEALANT.

11. INSULATION: - HEAD CONDITIONS AT FLOOR/ROOF DECK
    1. FIRE RESISTANCE RATED PARTITIONS SHALL USE MINERAL WOOL INSULATION.
    2. NON-RATED PARTITIONS REQUIRING SOUND ATTENUATION SHALL USE SOUND ATTENUATION BLANKETS (SAB)
    3. PROVIDE FULL THICKNESS INSULATION INSIDE ALL STUD BOX BEAMS AND HEADERS WHICH OCCUR IN WALLS WITH SOUND ATTENUATION.
    4. PROVIDE SOUND ATTENUATIONBLANKETS IN ALL WALL CAVITIES WITH PLUMBING STACKS FULL HEIGHT OF WALL.

12. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND SMOKE RESISTANT RATING SHALL BE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL AND 6' - 0" OC MAX EACH SIDE.

13. REFER TO SPECIFICATIONS FOR MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.

14. REFER TO TOILET ACCESSORIES SHEET AND CASEWORK SHEET FOR MOUNTING DETAIL INFORMATION.

15. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING INFORMATION.

16. HEAD OF WALL DETAILS DO NOT ALTER PARTITION TYPES NOTED ON PLANS.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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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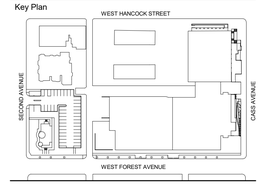
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan

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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# INTERIOR PARTITIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

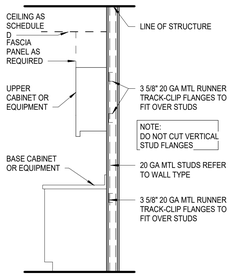
Signature:

Drawing No:

# A7.4.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001001.rvt

Sheet Size: 30" x 42"
- Template Version

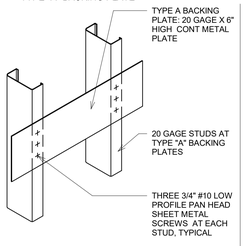



5 TYPICAL WALL BLOCKING
1/2" = 1'-0"

## TYPICAL BACKING PLATE SCHEDULE

PROVIDE BACKING PLATES AS INDICATED ON THE DRAWINGS OR WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING SCHEDULE. REFER TO DETAILS ELSEWHERE IN THE SET OF DRAWINGS FOR THE SUPPORT OF WALL MOUNTED ITEMS IN EXCESS OF 200 POUNDS

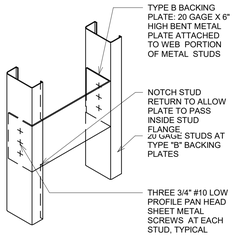
TYPE "A" BACKING PLATE




TYPE A BACKING PLATES:

- AT DOOR STOPS AND BUMPER RAILS
- AT TOILET ACCESSORIES, MIRRORS, COAT HOOKS ETC
- AT ALL UPPER WALL HUNG CABINETS
- AT ALL BASE CABINETS
- AT ALL FULL HEIGHT CABINETS
- AT WALL MOUNTED ADJUSTABLE SHELVING
- AT ALL WALL MOUNTED HANDRAILS

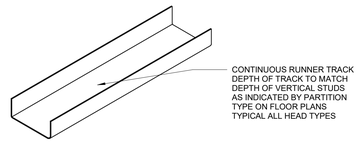
TYPE "B" BACKING PLATE



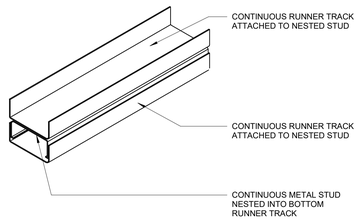

TYPE B BACKING PLATES:

TYPE B BACKING PLATE SHALL SUPPORT THE SAME ITEMS AS TYPE A BACKING PLATE BUT USE WHERE APPEARANCE IS THE MAIN CONCERN SUCH AS LOBBIES AND OTHER HIGH DESIGN AREAS

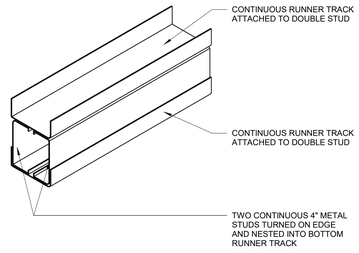
4 TYPICAL BLOCKING DETAILS
1" = 1'-0"




A TYPICAL HEAD TYPE 1 - OPENINGS UP TO 3'-6" WIDE



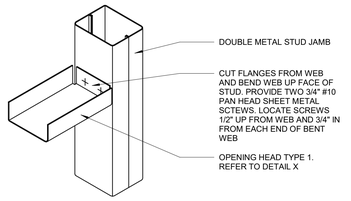

B TYPICAL HEAD TYPE 2 - OPENINGS 3'-6" TO 8'-0" WIDE



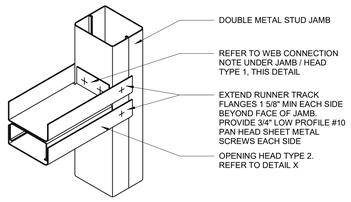

C TYPICAL HEAD TYPE 3 - OPENINGS 8'-0" TO 12'-0" WIDE

14 HEAD TRACK FRAMING
TYPICAL DETAILS
SCALE: NTS

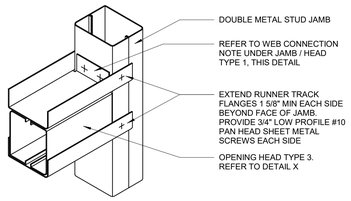
3 HEAD TRACK FRAMING
1 1/2" = 1'-0"




A JAMB / HEAD TYPE 1




B JAMB AT TYPE 2 HEAD




C JAMB AT TYPE 3 HEAD

2 HEAD / JAMB CONNECTION
1 1/2" = 1'-0"

## FRAMING NOTES

A. ALL NON-LOAD-BEARING METAL WALL FRAMING SHALL BE 25 GAUGE UNLESS OTHERWISE NOTED BELOW IN NOTES B, C, D, E AND F. REFER TO SPECIFICATION SECTIONS 09260 AND 05400 FOR ADDITIONAL REQ'TS

B. PROVIDE 20 GAUGE METAL WALL FRAMING IN LIEU OF 25 GAUGE METAL FRAMED WALLS WITH ONE LAYER OF 5/8" GYPSUM WALL BOARD ON EACH SIDE THAT EXCEED THE HEIGHT LIMITS AS LISTED BELOW:

2 1/2" METAL STUDS: 10'-9"
3 5/8" METAL STUDS: 14'-0"
4" METAL STUDS: 15'-0"
6" METAL STUDS: 20'-0"

C. ADDITIONALLY, PROVIDE 20 GAUGE METAL WALL FRAMING AT THE FOLLOWING LOCATIONS:

1. DOUBLE STUD JAMB ASSEMBLIES AT OPENINGS
2. FIRST STUD IN THE PARTITION BEYOND THE DOUBLE STUD JAMB ASSEMBLY. LOCATE STUD 6" FROM DOUBLE STUD ASSEMBLY
3. STUDS TO WHICH CEMENTITIOUS BACKER UNITS, SPECIFIED IN SECTION 09300, ARE INSTALLED FOR WET AREAS
4. STUDS TO WHICH ABUSE-RESISTANT AND HIGH-IMPACT GYPSUM WALL PANELS ARE ATTACHED
5. STUDS TO WHICH WALL MOUNTED EQUIPMENT, INCLUDING OWNER FURNISHED EQUIPMENT, IS FASTENED
6. STUD INFILL AND SILL TRACK BELOW WINDOW OPENINGS
7. STUDS INSTALLED FOR OPENING HEADS BETWEEN DOUBLE STUD JAMB ASSEMBLIES

D. PROVIDE 20 GAUGE METAL WALL FRAMING IN LIEU OF 25 GAUGE METAL FRAMED WALLS WITH TWO LAYERS OF 5/8" GYPSUM WALL BOARD ON EACH SIDE THAT EXCEED THE HEIGHT LIMITS AS LISTED BELOW:

2 1/2" METAL STUDS: 11'-9"
3 5/8" METAL STUDS: 14'-9"
4" METAL STUDS: 15'-9"
6" METAL STUDS: 20'-0"

E. PROVIDE 16 GAUGE METAL WALL FRAMING (REFER TO SPECIFICATION SECTION 05400) IN LIEU OF 20 GAUGE METAL FRAMED WALLS WITH ONE LAYER OF 5/8" GYPSUM WALL BOARD ON EACH SIDE THAT EXCEED THE HEIGHT LIMITS AS LISTED BELOW:

2 1/2" METAL STUDS: 12'-0"
3 5/8" METAL STUDS: 15'-7"
4" METAL STUDS: 16'-10"
6" METAL STUDS: 22'-10"

F. PROVIDE 16 GAUGE METAL WALL FRAMING (REFER TO SPECIFICATION SECTION 05400) IN LIEU OF 20 GAUGE METAL FRAMED WALLS WITH TWO LAYERS OF 5/8" GYPSUM WALL BOARD ON EACH SIDE THAT EXCEED THE HEIGHT LIMITS AS LISTED BELOW:

2 1/2" METAL STUDS: 14'-0"
3 5/8" METAL STUDS: 17'-8"
4" METAL STUDS: 18'-11"
6" METAL STUDS: 24'-11"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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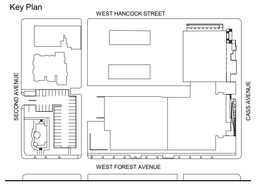
| DETROIT, MI | |

Key Plan

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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# FRAMING DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

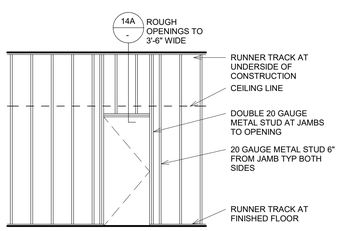
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

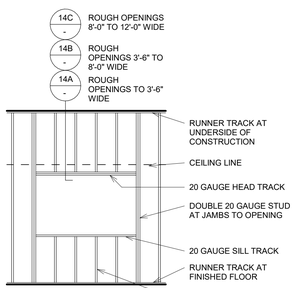
Signature:

Drawing No:

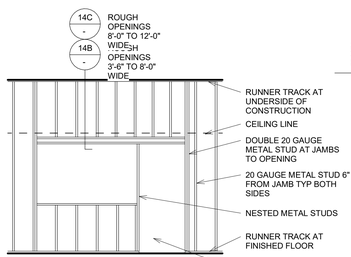
# A7.4.2



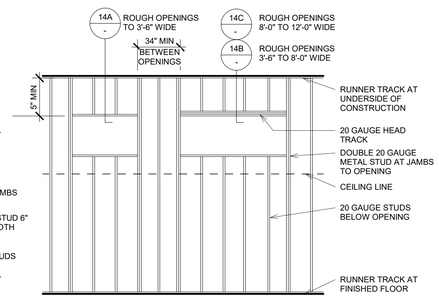

A TYPICAL FRAMING ELEVATIONS



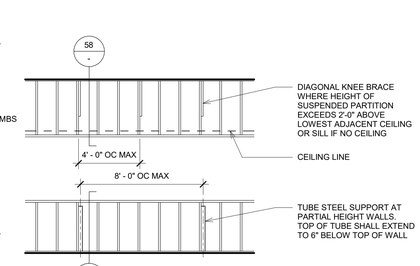

B GLAZED OPENINGS / PASS-THROUGHS




C COMBINATION DOOR / GLAZED OPENINGS




D UTILITY SERVICE OPENINGS



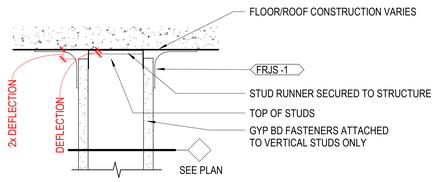

E SUSPENDED AND PARTIAL HEIGHT PARTITIONS

TYPICAL AT ALL METAL STUD FRAMING UNLESS OTHERWISE NOTED

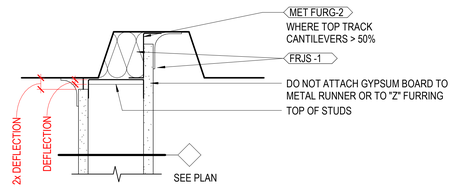
1 TYPICAL WALL FRAMING ELEVATIONS
1/4" = 1'-0"

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001001.rvt

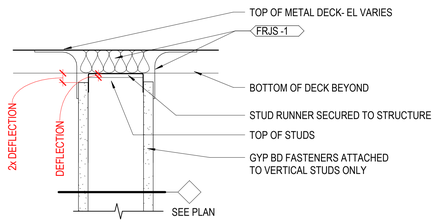
Sheet Size: 30" x 42"
: Template Version




C PARTITION TO DECK



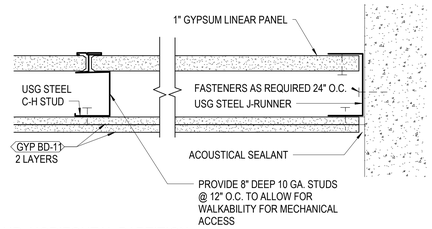

B PARTITION PARALLEL TO DECK FLUTES



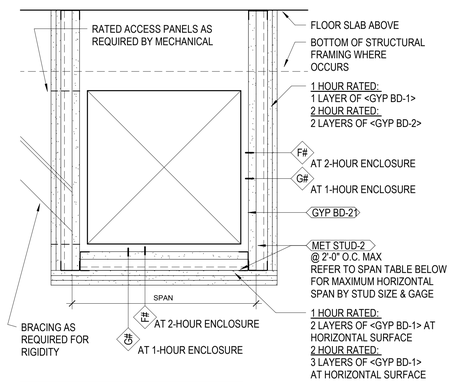

A PARTITION PERPENDICULAR TO DECK FLUTES

NOTE: REFER TO FLOOR PLANS FOR PARTITION TYPES

4 GYPSUM BOARD PARTITION HEAD DETAILS - RATED
3" = 1'-0"



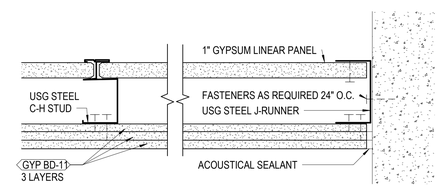

1 1 HR. HORIZONTAL PARTITION
3" = 1'-0"




| MAXIMUM ENCLOSURE SPAN TABLE<br>UL DESIGN #U438 (2-HOUR) OR #U469 (1-HOUR) | |
|---|---|
| SPAN | STUD SIZE |
| 8'-3" MAX | 2 1/2" MIN 20 GAGE STEEL STUDS |
| 12'-0" MAX | 4" MIN 20 GAGE STEEL STUDS |
| 13'-8" MAX | 6" MIN 20 GAGE STEEL STUDS |

NOTE:
PIPING/DUCT INSIDE SHAFT TO BE
SUPPORTED FROM FLOOR ABOVE
REFER TO MECHANICAL FOR MORE
INFORMATION

2 2 HR. DUCT ENCLOSURE
1 1/2" = 1'-0"




3 2 HR. HORIZONTAL PARTITION
3" = 1'-0"

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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
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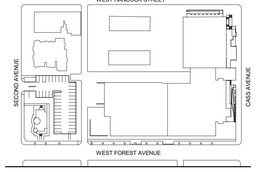
| DETROIT, MI | |

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TYPICAL RATED ASSEMBLIES

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY -
NOT FOR CONSTRUCTION

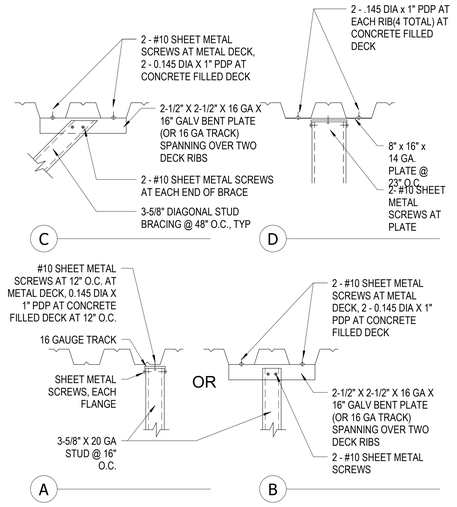
Signature:

Drawing No:

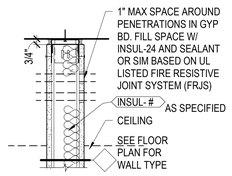
# A7.4.4

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/0.rvt

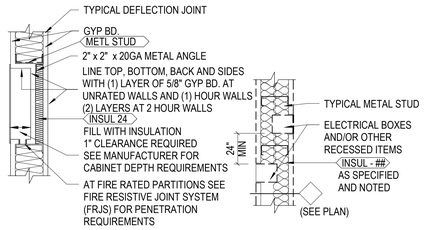
Sheet Size: 30" x 42"
- Template Version




4 STUD TO DECK DETAILS
1" = 1'-0"



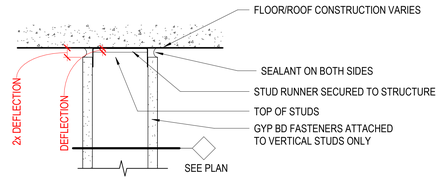

B PTN AT CLG/STRUCT (SOUND RTD PTN)



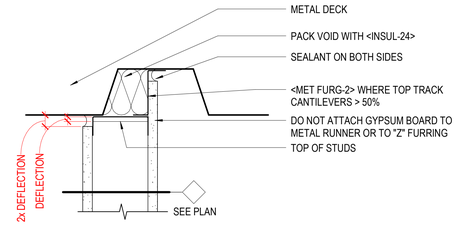

C PTN AT CABINET (FIRE/SOUND RTD)

D PTN AT PENETRATION (FIRE/SOUND RTD)

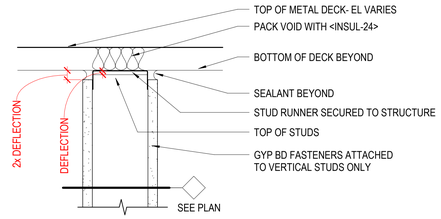
5 TYPICAL PARTITION DETAILS
1 1/2" = 1'-0"




C PARTITION TO DECK



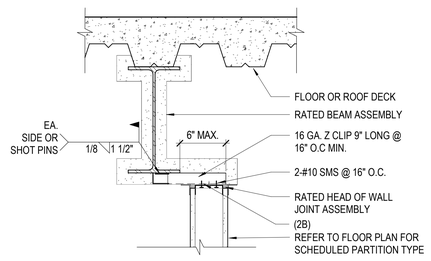

B PARTITION PARALLEL TO DECK FLUTES



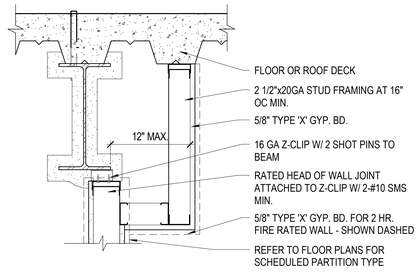

A PARTITION PERPENDICULAR TO DECK FLUTES

NOTE: REFER TO FLOOR PLANS FOR PARTITION TYPES

1 GYPSUM BOARD PARTITION HEAD DETAILS - NON RATED
3" = 1'-0"




2 OFFSET HEAD CONNECTION AT STEEL BEAM
1 1/2" = 1'-0"




3 PARTITION CLOSURE AT STEEL BEAM
1 1/2" = 1'-0"

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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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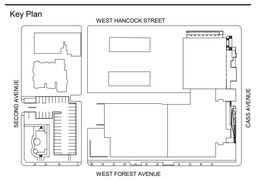
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# PARTITION HEAD DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

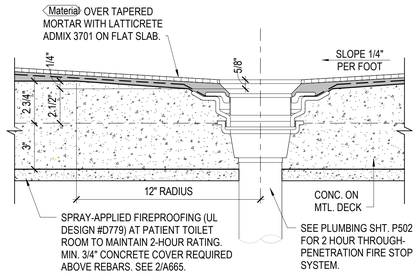
Drawing No:

# A7.4.5

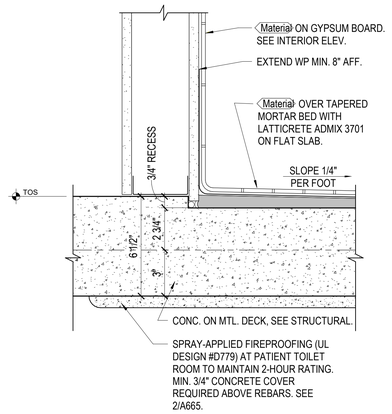
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version

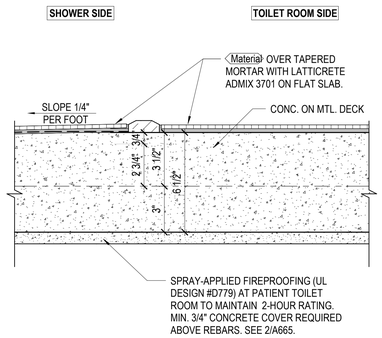
4 TRANSITION STRIP DETAILS TYP.
6" = 1'-0"



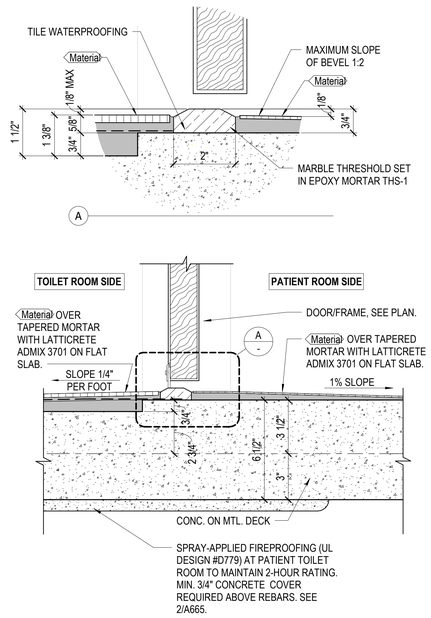

7 SHOWER/TOILET ROOM FLOOR - DRAIN
3" = 1'-0"



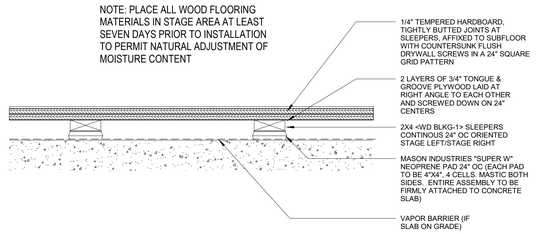

5 SHOWER/TOILET ROOM FLOOR - BASE
3" = 1'-0"



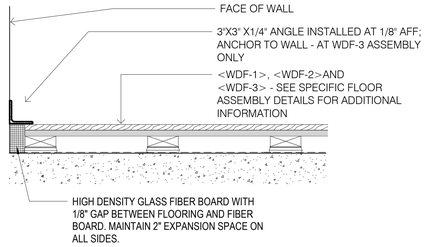

8 SHOWER/TOILET ROOM FLOOR - TRANSITION
3" = 1'-0"



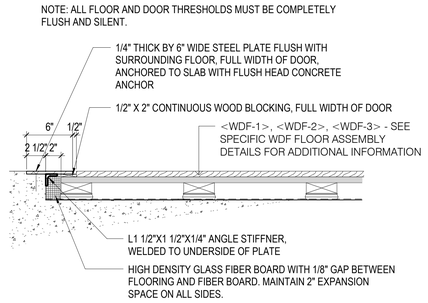

6 SHOWER/TOILET ROOM FLOOR - DOOR THRESHOLD
3" = 1'-0"




1 WDF-2/3 STAGE FLOOR DETAIL
1 1/2" = 1'-0"




2 WDF ASSEMBLY PERIMETER DETAIL AT WALLS
1 1/2" = 1'-0"




3 WDF ASSEMBLY STAGE FLOOR TRANSITION
1 1/2" = 1'-0"

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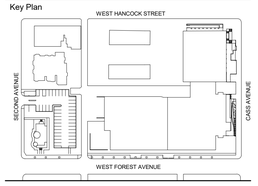
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
INTERIOR FLOOR DETAILS

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

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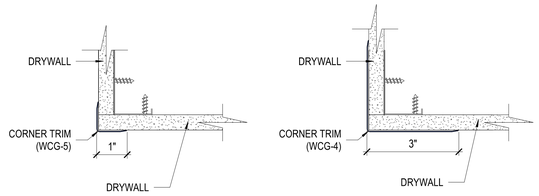
Signature:

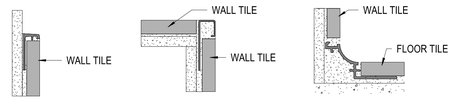
Drawing No:
A7.5.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version

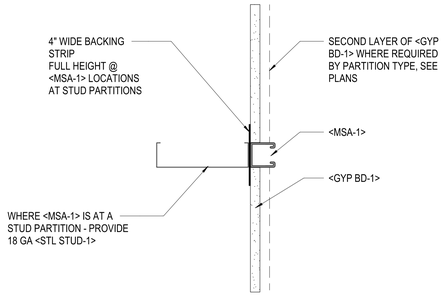



1 TYP. CORNER GUARD DETAILS
6" = 1'-0"




CTA-1: TILE TOP EDGE TRIM
CTA-2: TILE OUTSIDE CORNER
CTA-3: TILE BASE TRIM

2 TILE ACCESSORIES
6" = 1'-0"




UNISTRUT CHANNELS <MSA-1> TO BE DESIGNED TO SUPPORT UNISTRUT P1777 BRACKETS WITH 1200 LB UNIFORM DESIGN LOAD AT SPACING OF 2'-0" ON CENTER

SIM CONDITION: AT MASONRY PARTITIONS - ANCHOR <MSA-1> DIRECTLY TO FACE OF CMU.

3 MSA-1 DETAIL AT SHOPS
3" = 1'-0"

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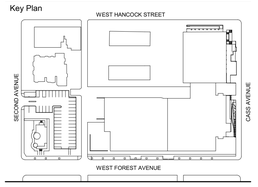
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# INTERIOR DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

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Signature:

Drawing No:

# A7.5.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001001.rvt

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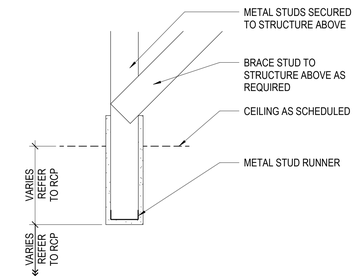
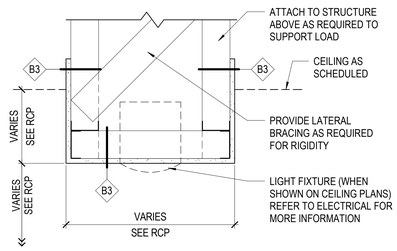
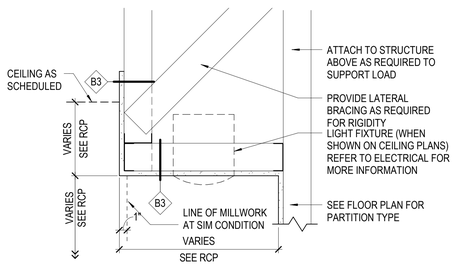
: Template Version



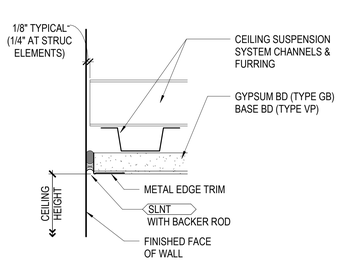

5 GYPSUM BOARD BULKHEAD
1 1/2" = 1'-0"



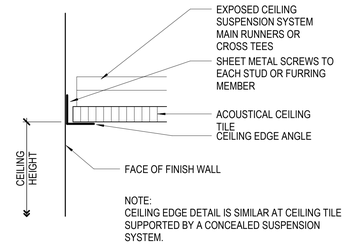

6 SOFFIT TRANSITION WITH STUD FRAMING
1 1/2" = 1'-0"



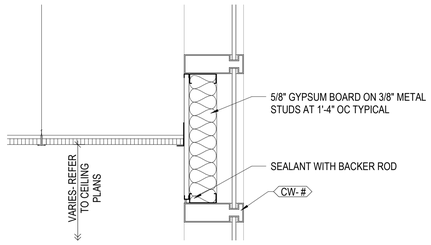

7 TYPICAL SOFFIT TRANSITION AT WALL
1 1/2" = 1'-0"



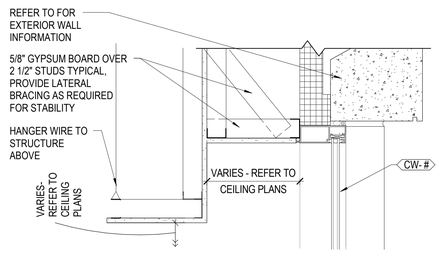

8 GYPSUM BOARD CEILING AT WALL- SUSPENDED
6" = 1'-0"



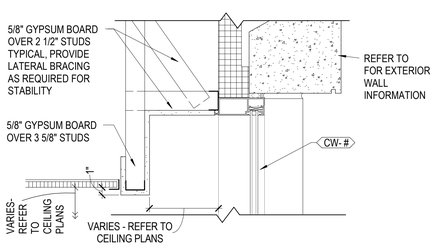

1 ACOUSTICAL CEILING TILE AT WALL SUSPENDED
6" = 1'-0"




2 CEILING GRID AT EXTERIOR CURTAINWALL
1 1/2" = 1'-0"




3 CURTAINWALL GYPSUM BOARD SOFFIT
1 1/2" = 1'-0"




4 CURTAINWALL SOFFIT WITH CEILING TILE
1 1/2" = 1'-0"

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| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# INTERIOR CEILING DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A7.5.4

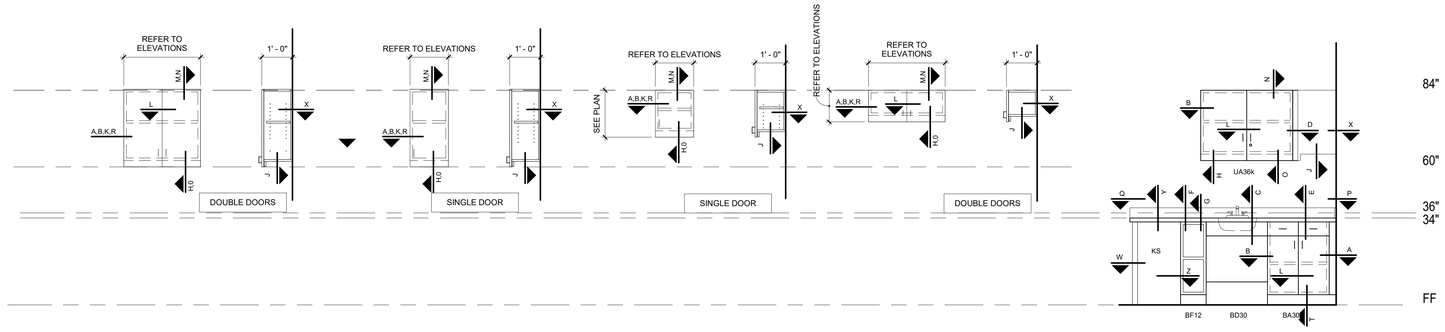
BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/0/0.rvt

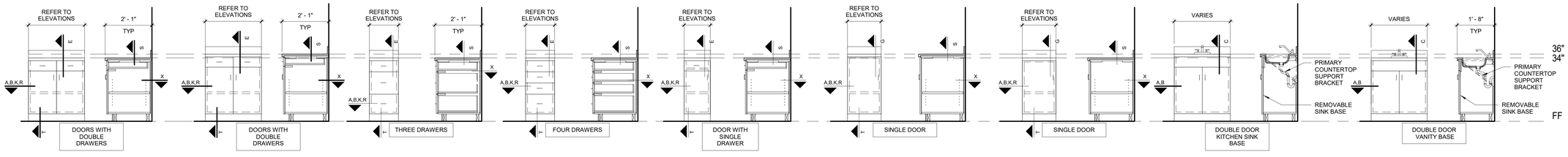
Sheet Size: 30" x 42"
- Template Version

## CASEWORK GENERAL NOTES

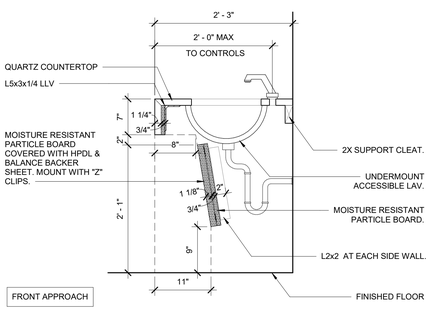
1. REFER TO INTERIOR ELEVATIONS (DRAWING SERIES A7.3) FOR CASEWORK WIDTHS AND CABINET TYPES
2. REFER TO COLOR AND MATERIAL SCHEDULE (DRAWING SHEET A7.2.1) FOR FINISH DESIGNATIONS
3. PROVIDE 1" RADIUS CORNER ON ALL OUTSIDE CORNERS OF COUNTERS
4. PROVIDE MATCHING FINISH TO EXPOSED CABINET ENDS UON
5. SEE INTERIOR ELEVATIONS (DRAWING SERIES A7.3) AND/ OR WOODWORK/ CASEWORK DRAWINGS (DRAWING SERIES A7.6) FOR COUNTER TOP MATERIAL

### HAA_CASEWORK GENERAL NOTES
12" = 1'-0"

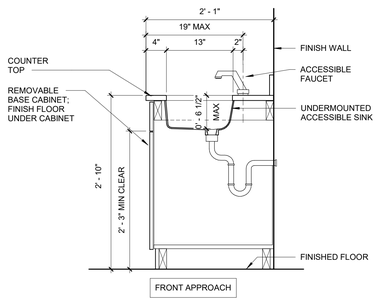


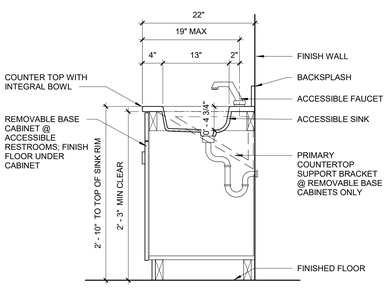

### 2 CASEWORK ELEVATION DETAILS
1/2" = 1'-0"



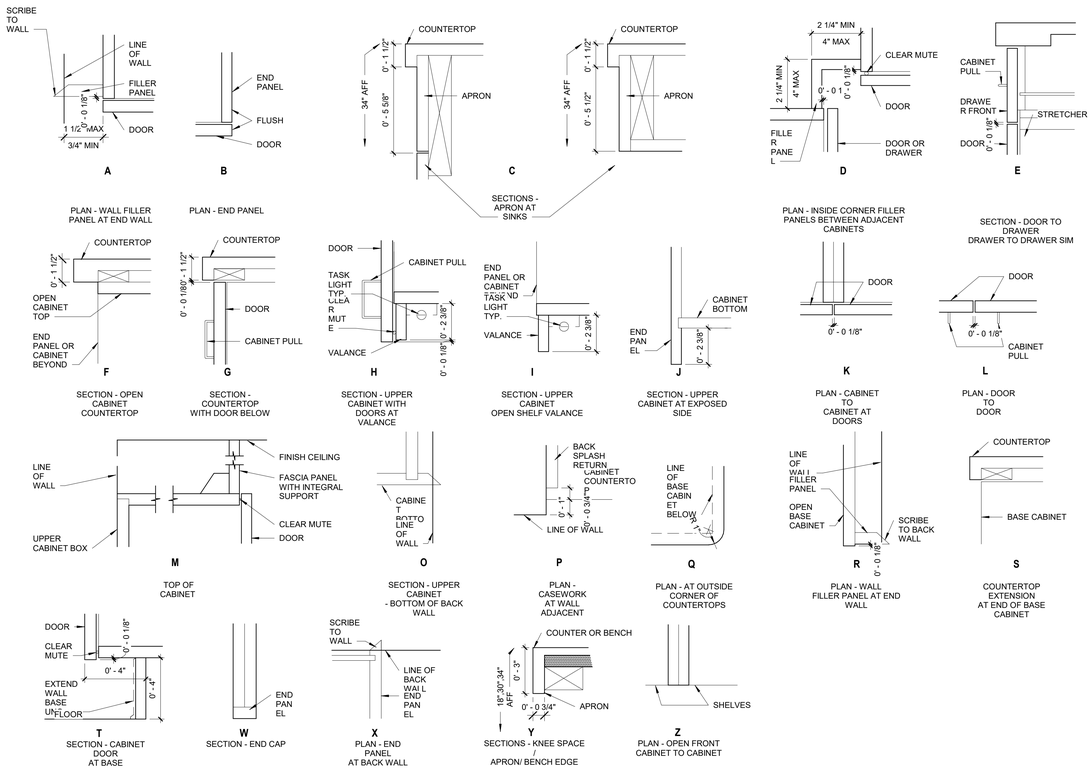

### 6 SINK @ PUBLIC RESTROOMS
1" = 1'-0"




### 4 SINK
1" = 1'-0"




### 5 SINK @ VANITIES
1" = 1'-0"




### 1 CASEWORK SECTION DETAILS
3" = 1'-0"

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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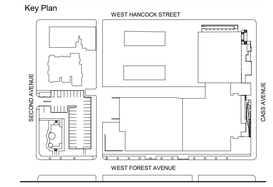
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
CASEWORK DETAILS

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

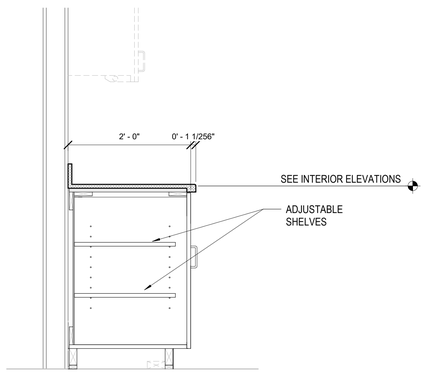
Drawing No:
A7.6.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

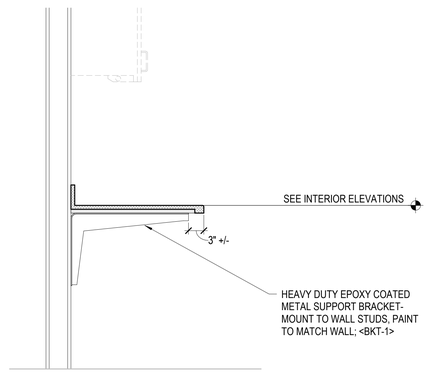
Sheet Size: 30" x 42"
- Template Version

## CASEWORK GENERAL NOTES

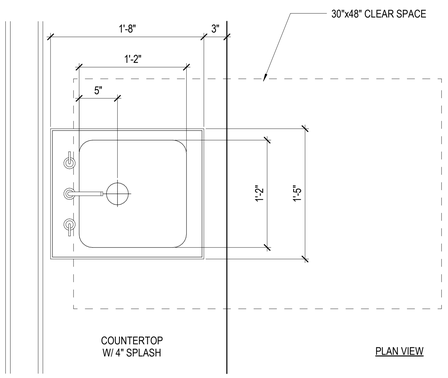
1. REFER TO INTERIOR ELEVATIONS (DRAWING SERIES A7.3) FOR CASEWORK WIDTHS AND CABINET TYPES
2. REFER TO COLOR AND MATERIAL SCHEDULE (DRAWING SHEET A7.2.1) FOR FINISH DESIGNATIONS
3. PROVIDE 1" RADIUS CORNER ON ALL OUTSIDE CORNERS OF COUNTERS
4. PROVIDE MATCHING FINISH TO EXPOSED CABINET ENDS UON
5. SEE INTERIOR ELEVATIONS (DRAWING SERIES A7.3) AND/ OR WOODWORK/ CASEWORK DRAWINGS (DRAWING SERIES A7.6) FOR COUNTER TOP MATERIAL



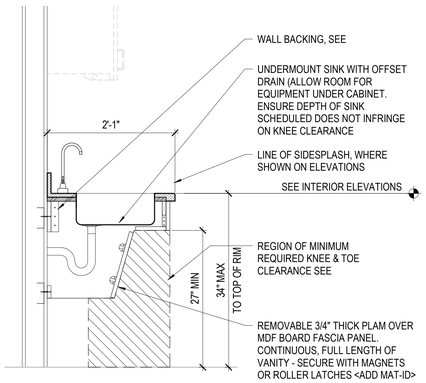

7 A6.6.1 ADJUSTABLE SHELF BASE CABINET
1" = 1'-0"



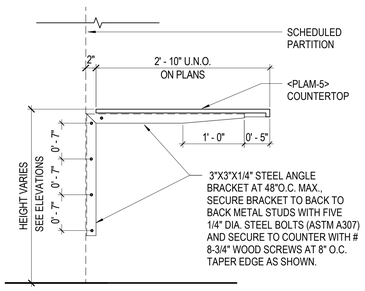

6 A1.1A.1 BASE COUNTER - W / PREMANUFACTURED SUPPORT BRACKET
1" = 1'-0"



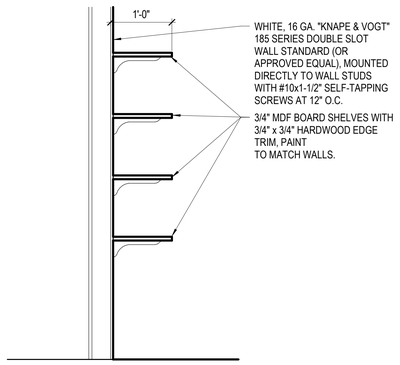

5 BASE SINK - ACCESSIBLE COUNTER PLAN
1 1/2" = 1'-0"



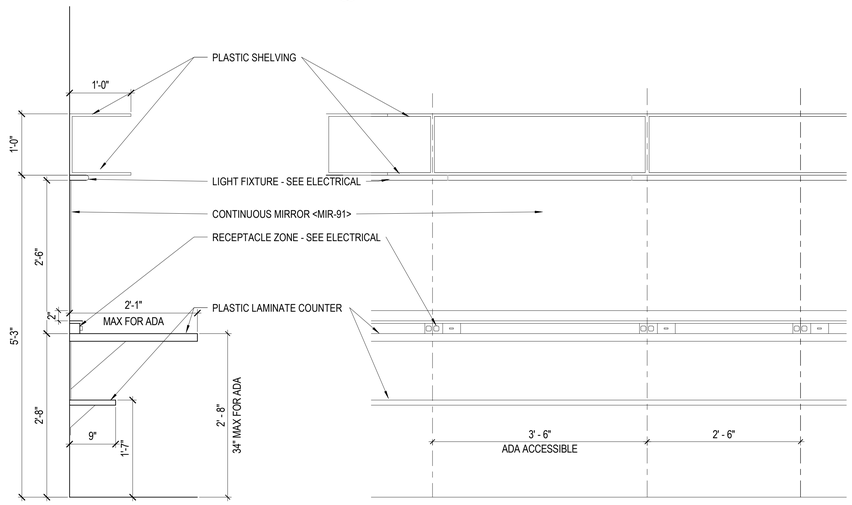

4 A6.6.1 BASE CABINET - BASE CABINET AT ACCESSIBLE SINK
1" = 1'-0"




3 A6.1.2 CONTROL ROOM COUNTER AND SUPPORTS
1" = 1'-0"




2 UPPER - ADJUSTABLE OPEN SHELVES
1" = 1'-0"




1 A6.5.2 DRESSING ROOM COUNTER
1" = 1'-0"

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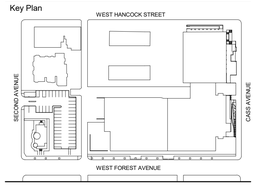
DETROIT, MI

Key Plan




| | |
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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# CASEWORK DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

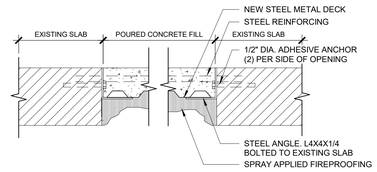
Signature:

Drawing No:

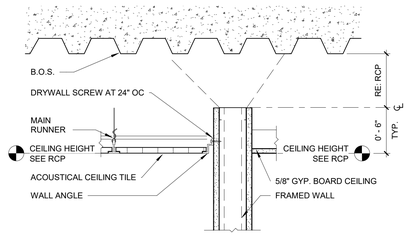
# A7.6.2

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

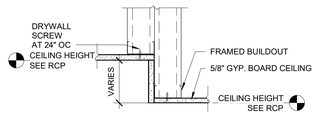
Sheet Size: 30" x 42"
- Template Version



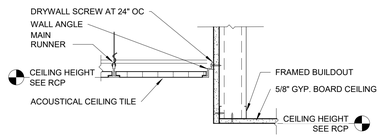

6 VERTICAL OPENING PATCH
1 1/2" = 1'-0"



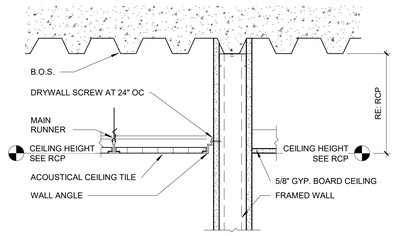

5 PARTIAL HEIGHT PARTITION
1 1/2" = 1'-0"



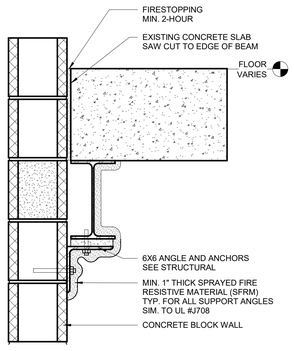

4 GYP. TO GYP.
1 1/2" = 1'-0"




3 GYP BD. TO ACT
1 1/2" = 1'-0"




2 FULL HEIGHT PARTITION
1 1/2" = 1'-0"




1 ANGLE FIRE PROOFING DETAIL
1 1/2" = 1'-0"

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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## DETAILS/ SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1 1/2" = 1'-0"

Seal:

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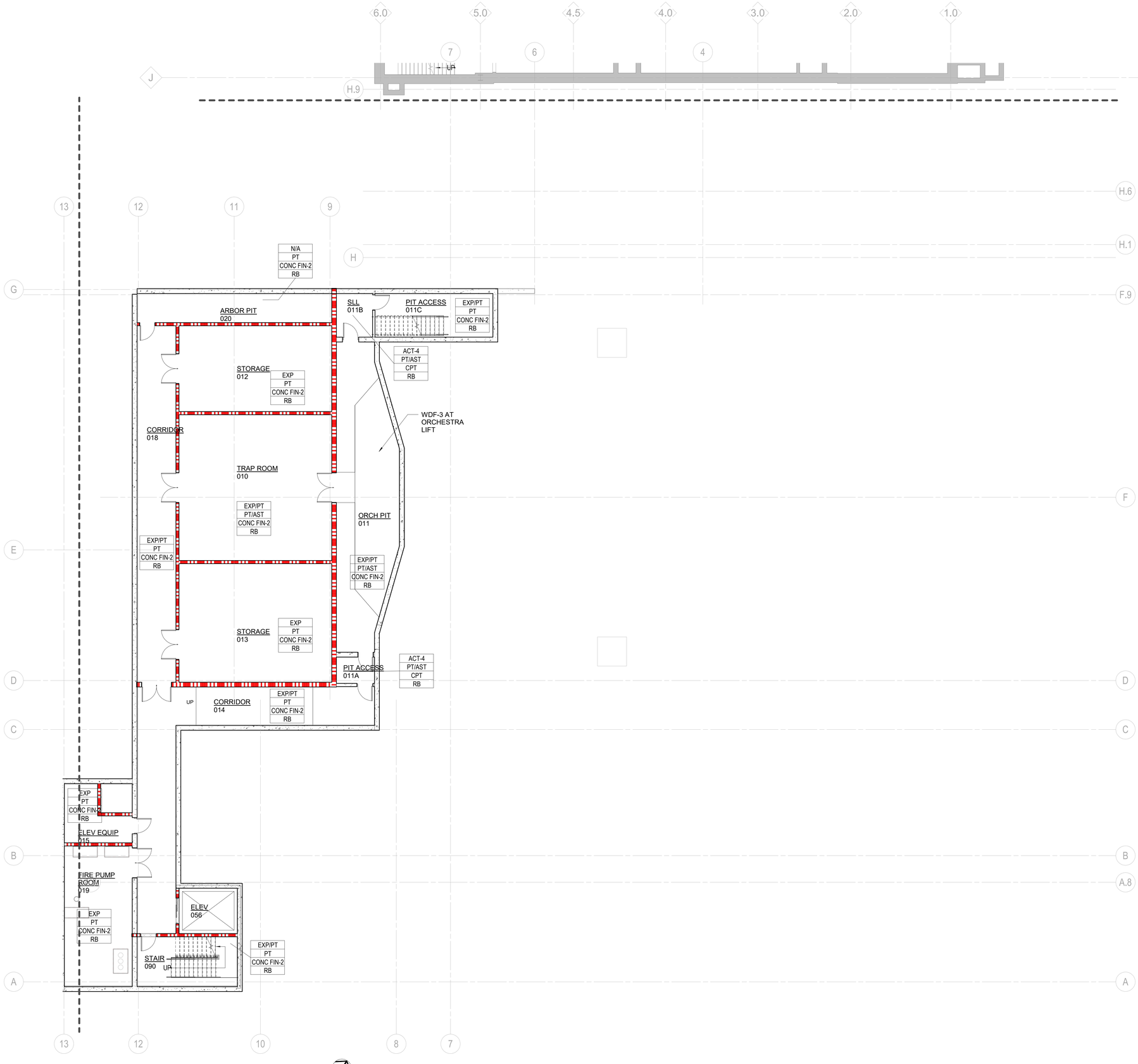
Signature:

Drawing No:

# A7.6.3

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

Sheet Size: 30" x 42"
- Template Version




NORTH

FINISH PLAN - LOWER LEVEL - SECTOR B
1/8" = 1'-0"

## GENERAL NOTES - FINISH PLAN

A. FINISHES INDICATED IN THIS PLAN ONLY DESCRIBE THE BASIC PREDOMINATE SURFACES FINISH.
B. SEE KEYNOTES FOR REFERENCES TO ADDITIONAL DRAWINGS AND SUPPLEMENTAL ROOM FINISH INFORMATION
C. DIRECTION WALL INDICATORS (NORTH, SOUTH, EAST, WEST) REFER TO THE "PLAN" NORTH ORIENTATION
D. FLAME SPREAD RATINGS FOR ALL FINISH MATERIALS SHALL CONFORM TO THE APPLICABLE REGULATORY STANDARDS
E. EXTEND FLOORING AND PROVIDED BASE INTO ALL ROLL UNDER SINK BASE CABINETS
F. PROVIDE FINISH END PANELS AT ALL EXPOSED CABINET ENDS
G. FULL HEIGHT SST CORNER GUARDS AT ALL OUTSIDE CORNERS OF BOH SPACES
H. SEE ENLARGED TOILET ROOM PLANS FOR ADDITIONAL FINISH INFORMATION.
I. CTW/PT INDICATES CTW WAINSCOAT TO 5'-0" AFF WITH PAINTED GYPSUM BD WALL ABOVE
J. SEE ACOUSTIC NARRATIVE FOR INFORMATION RE: ACOUSTIC FINISHES
K. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION
L. PROVIDE FULL HEIGHT FRP WHERE NOTED.

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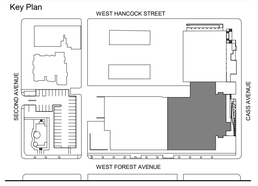
DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LOWER LEVEL FINISH & SIGNAGE PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

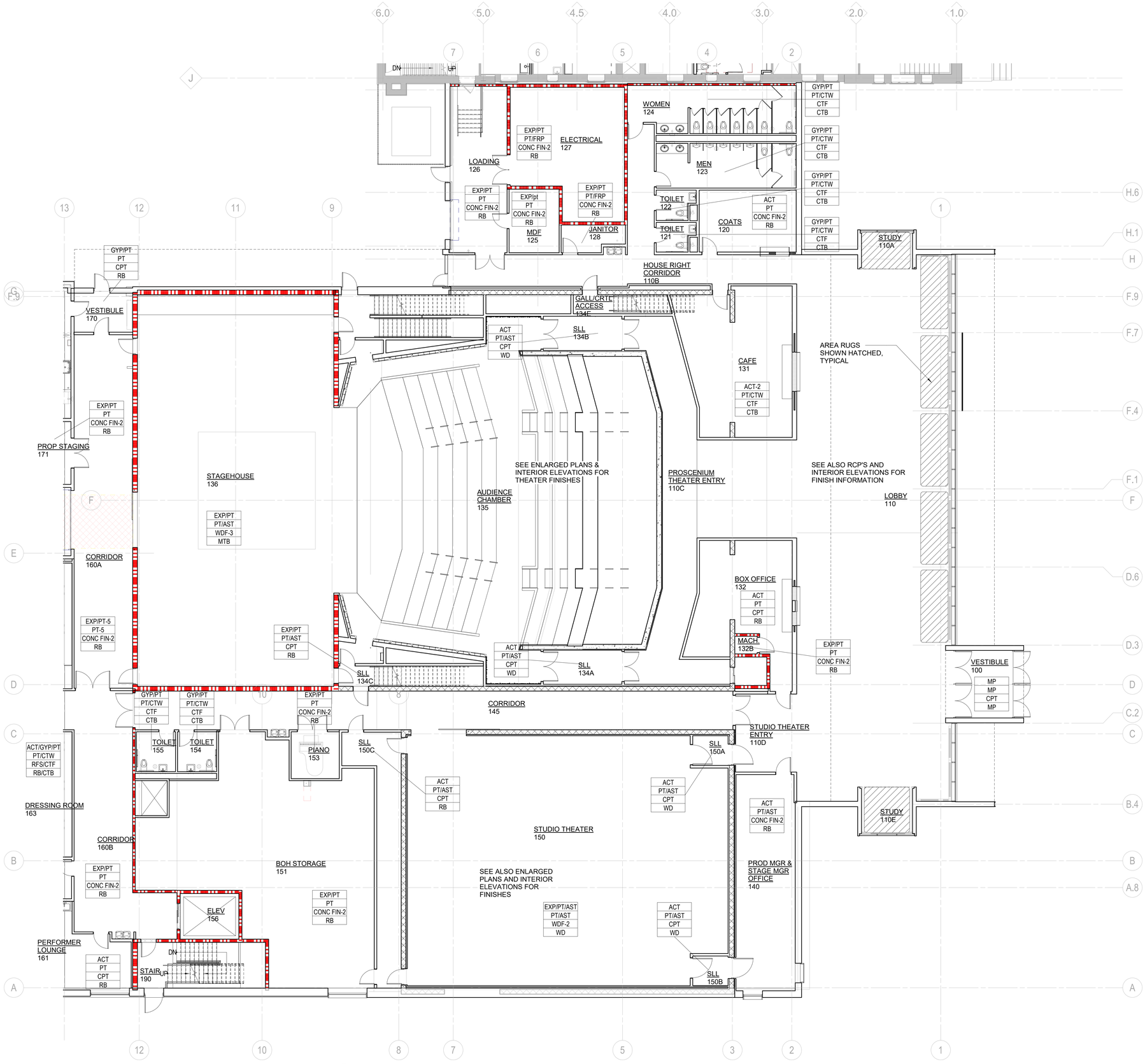
Signature:

Drawing No:

# A7.7.0B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




NORTH

FINISH PLAN - LEVEL ONE - SECTOR B
1/8" = 1'-0"

## GENERAL NOTES - FINISH PLAN

A. FINISHES INDICATED IN THIS PLAN ONLY DESCRIBE THE BASIC PREDOMINATE SURFACES FINISH.
B. SEE KEYNOTES FOR REFERENCES TO ADDITIONAL DRAWINGS AND SUPPLEMENTAL ROOM FINISH INFORMATION
C. DIRECTION WALL INDICATORS (NORTH, SOUTH, EAST, WEST) REFER TO THE "PLAN" NORTH ORIENTATION
D. FLAME SPREAD RATINGS FOR ALL FINISH MATERIALS SHALL CONFORM TO THE APPLICABLE REGULATORY STANDARDS
E. EXTEND FLOORING AND PROVIDED BASE INTO ALL ROLL UNDER SINK BASE CABINETS
F. PROVIDE FINISH END PANELS AT ALL EXPOSED CABINET ENDS
G. FULL HEIGHT SST CORNER GUARDS AT ALL OUTSIDE CORNERS OF BOH SPACES
H. SEE ENLARGED TOILET ROOM PLANS FOR ADDITIONAL FINISH INFORMATION.
I. CTW/PT INDICATES CTW WAINSCOAT TO 5'-0" AFF WITH PAINTED GYPSUM BD WALL ABOVE
J. SEE ACOUSTIC NARRATIVE FOR INFORMATION RE: ACOUSTIC FINISHES
K. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION
L. PROVIDE FULL HEIGHT FRP WHERE NOTED.

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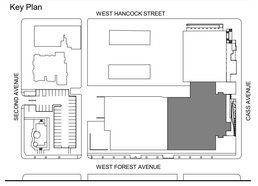
DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL ONE FINISH & SIGNAGE PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A7.7.1B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

## GENERAL NOTES - FINISH PLAN

A. FINISHES INDICATED IN THIS PLAN ONLY DESCRIBE THE BASIC PREDOMINATE SURFACES FINISH.
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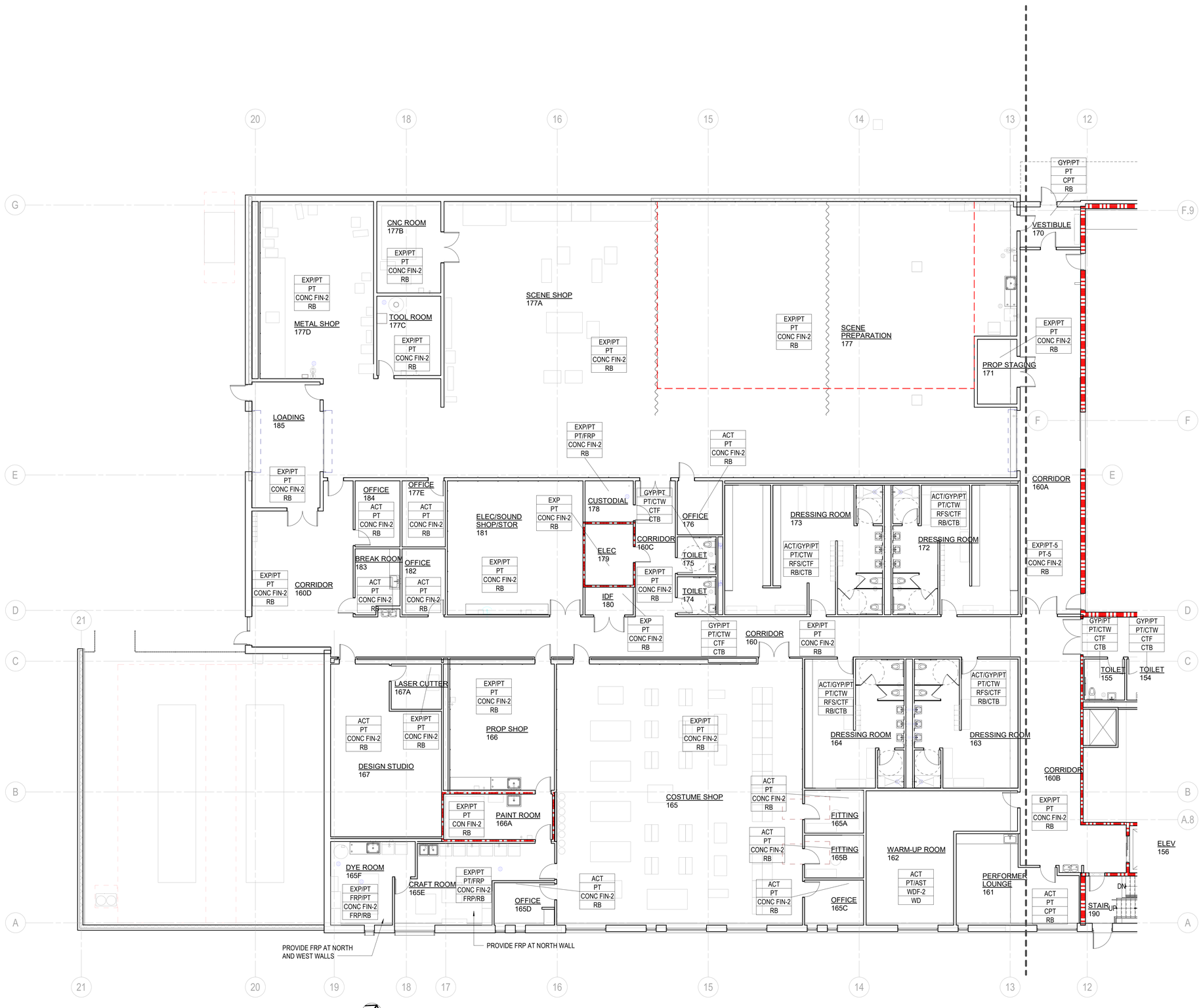
D. FLAME SPREAD RATINGS FOR ALL FINISH MATERIALS SHALL CONFORM TO THE APPLICABLE REGULATORY STANDARDS
E. EXTEND FLOORING AND PROVIDED BASE INTO ALL ROLL UNDER SINK BASE CABINETS
F. PROVIDE FINISH END PANELS AT ALL EXPOSED CABINET ENDS
G. FULL HEIGHT SST CORNER GUARDS AT ALL OUTSIDE CORNERS OF BOH SPACES
H. SEE ENLARGED TOILET ROOM PLANS FOR ADDITIONAL FINISH INFORMATION.
I. CTW/PT INDICATES CTW WAINSCOAT TO 5'-0" AFF WITH PAINTED GYPSUM BD WALL ABOVE
J. SEE ACOUSTIC NARRATIVE FOR INFORMATION RE: ACOUSTIC FINISHES
K. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION
L. PROVIDE FULL HEIGHT FRP WHERE NOTED.




FINISH PLAN - LEVEL ONE - SECTOR C
1/8" = 1'-0"

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HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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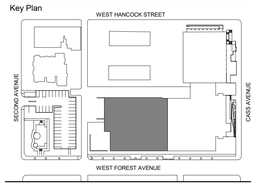
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
LEVEL ONE FINISH & SIGNAGE PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

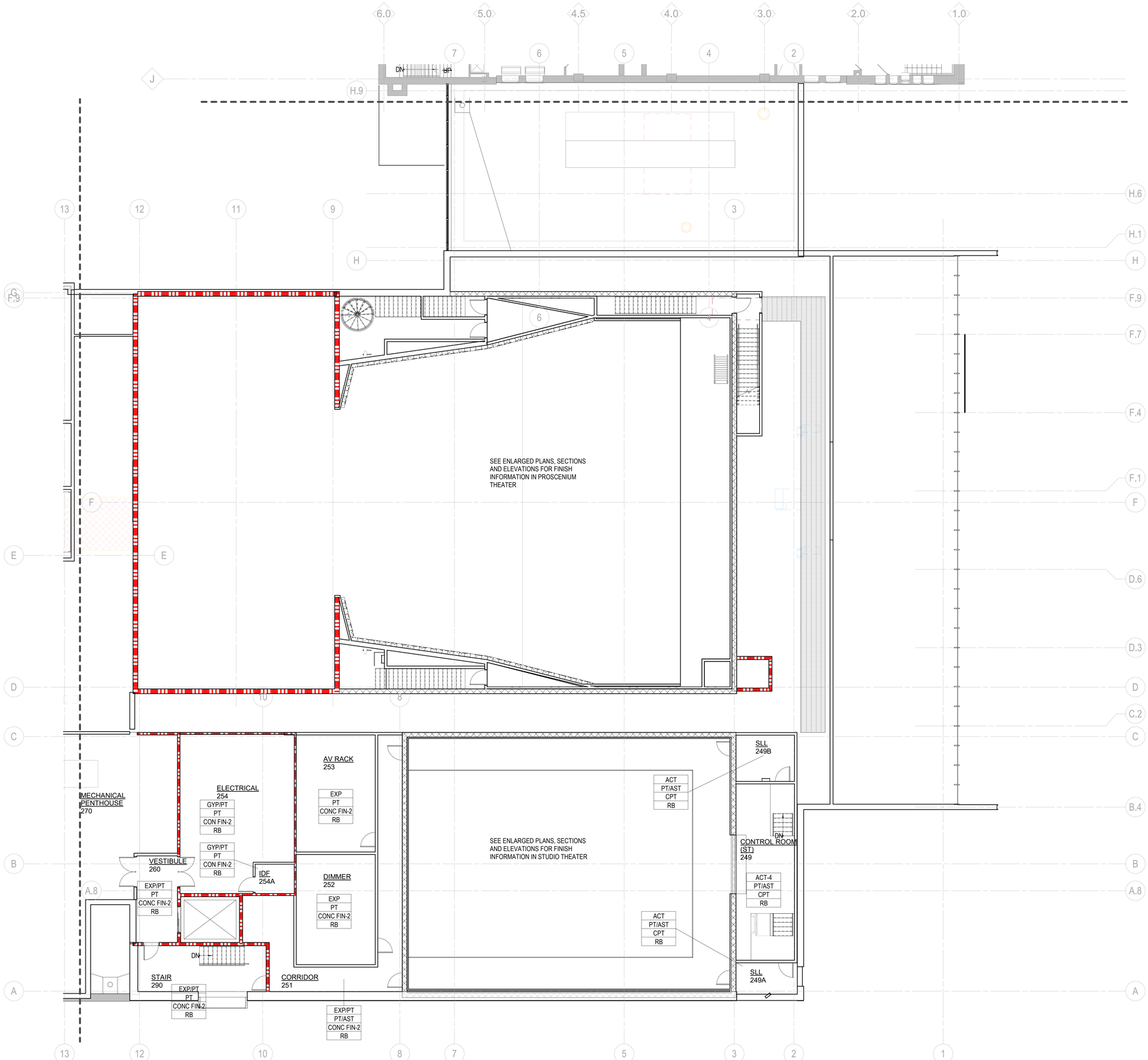
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
A7.7.1C

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version




NORTH

## FINISH PLAN - LEVEL TWO - SECTOR B

1/8" = 1'-0"

## GENERAL NOTES - FINISH PLAN

A. FINISHES INDICATED IN THIS PLAN ONLY DESCRIBE THE BASIC PREDOMINATE SURFACES FINISH.
B. SEE KEYNOTES FOR REFERENCES TO ADDITIONAL DRAWINGS AND SUPPLEMENTAL ROOM FINISH INFORMATION
C. DIRECTION WALL INDICATORS (NORTH, SOUTH, EAST, WEST) REFER TO THE "PLAN" NORTH ORIENTATION
D. FLAME SPREAD RATINGS FOR ALL FINISH MATERIALS SHALL CONFORM TO THE APPLICABLE REGULATORY STANDARDS
E. EXTEND FLOORING AND PROVIDED BASE INTO ALL ROLL UNDER SINK BASE CABINETS
F. PROVIDE FINISH END PANELS AT ALL EXPOSED CABINET ENDS
G. FULL HEIGHT SST CORNER GUARDS AT ALL OUTSIDE CORNERS OF BOH SPACES
H. SEE ENLARGED TOILET ROOM PLANS FOR ADDITIONAL FINISH INFORMATION.
I. CTW/PT INDICATES CTW WAINSCOAT TO 5'-0" AFF WITH PAINTED GYPSUM BD WALL ABOVE
J. SEE ACOUSTIC NARRATIVE FOR INFORMATION RE: ACOUSTIC FINISHES
K. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION
L. PROVIDE FULL HEIGHT FRP WHERE NOTED.

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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO FINISH & SIGNAGE PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A7.7.2B

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001001.rvt

Sheet Size: 30" x 42"
- Template Version

## GENERAL NOTES - FINISH PLAN

A. FINISHES INDICATED IN THIS PLAN ONLY DESCRIBE THE BASIC PREDOMINATE SURFACES FINISH.
B. SEE KEYNOTES FOR REFERENCES TO ADDITIONAL DRAWINGS AND SUPPLEMENTAL ROOM FINISH INFORMATION
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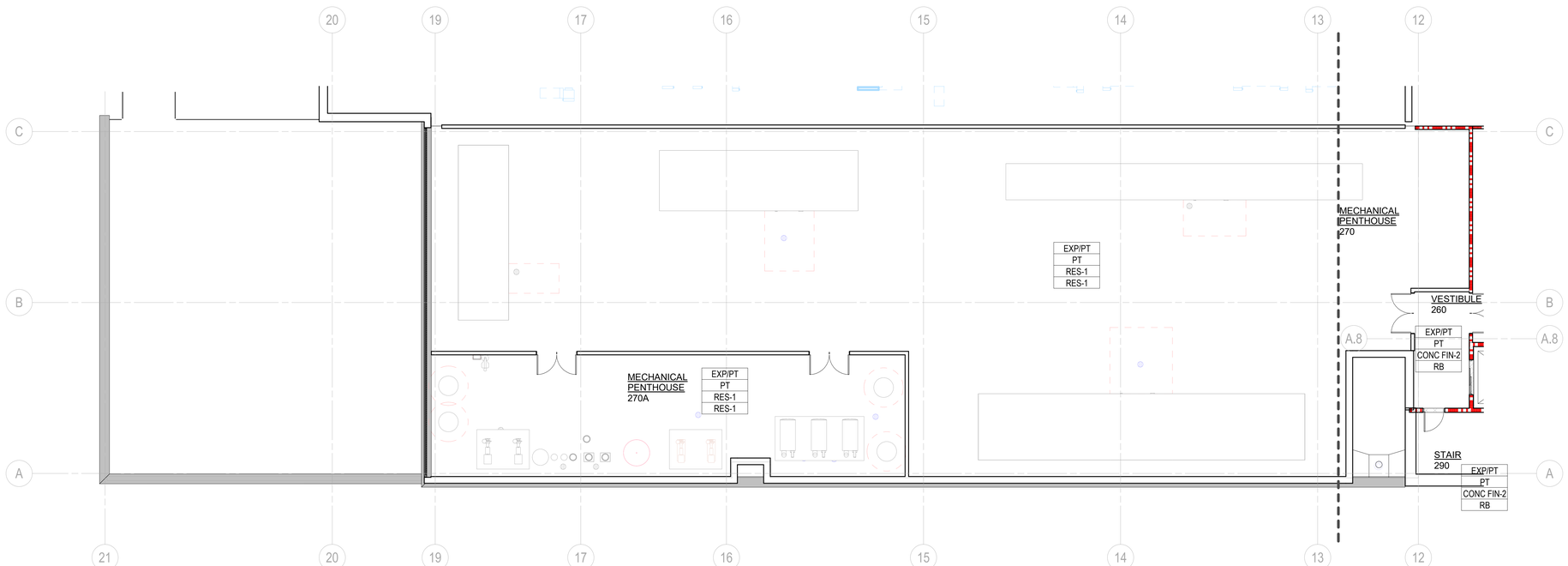
F. PROVIDE FINISH END PANELS AT ALL EXPOSED CABINET ENDS
G. FULL HEIGHT SST CORNER GUARDS AT ALL OUTSIDE CORNERS OF BOH SPACES
H. SEE ENLARGED TOILET ROOM PLANS FOR ADDITIONAL FINISH INFORMATION.
I. CTW/PT INDICATES CTW WAINSCOAT TO 5'-0" AFF WITH PAINTED GYPSUM BD WALL ABOVE
J. SEE ACOUSTIC NARRATIVE FOR INFORMATION RE: ACOUSTIC FINISHES
K. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION
L. PROVIDE FULL HEIGHT FRP WHERE NOTED.




NORTH

FINISH PLAN - LEVEL TWO - SECTOR C
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

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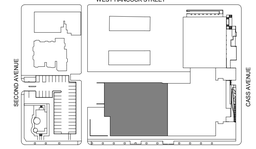
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL TWO FINISH & SIGNAGE PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# A7.7.2C

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/01.rvt

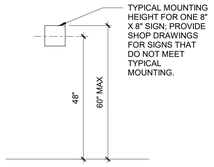
Sheet Size: 30" x 42"
- Template Version

## SIGNAGE SCHEDULE

| ROOM NAME | ROOM NO. | SIGN TYPE | QTY | TEXT (IF ANY) | Signage Mount | NOTES |
|---|---|---|---|---|---|---|

## SIGNAGE TYPES

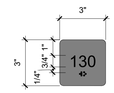
| SIGN TYPE | DESCRIPTION | QTY | MATERIAL AND FINISHES | WIDTH | HEIGHT | MOUNTING HEIGHT | MOUNTING DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|



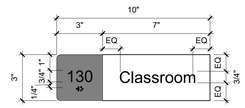

TYP SIGNAGE HEIGHTS FOR 8" X 8" SIGN

## SIGNAGE NOTES

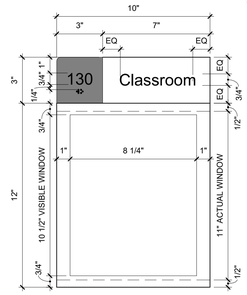
1. COMPLY WITH ICC/ANSI.117.1, ADAGG, STATE AND LOCAL GOVERNING CODES.
2. EVACUATION AND WAYFINDING PLANS: ARCHITECT WILL PROVIDE FLOOR PLAN BACKGROUNDS TO SIGNAGE COMPANY. SIGNAGE COMPANY IS RESPONSIBLE FOR DETERMINING APPROPRIATE EXIT ROUTES AND "YOU ARE HERE" MARKERS
3. REFER TO SIGNAGE SCHEDULE FOR SIGN MESSAGE AND SIGNAGE PLANS FOR SIGN LOCATIONS. ADVISE ARCHITECT WITH ANY DISCREPENCIES.
4. COORDINATE SIGNAGE LOCATION WITH BUILDING ELEMENTS AND BUILT-IN ITEMS.
5. PREPARE EXISTING SURFACE TO RECIEVE WALL MOUNT SIGN. PREPARE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
6. PROVIDE BACKER PIECE / PLATE FOR GLASS MOUNTED SIGNS.
7. SIGNAGE COLORS TBD (TYP).
8. VERIFY DIRECTION OF STAIR SIGNAGE ARROWS AND LOCATIONS OF STAIR SIGNAGE PRIOR TO PLACING SIGNAGE ORDER.
9. BRAILLE TO BE DETERMINED AND VERIFIED BY SIGNAGE VENDOR.



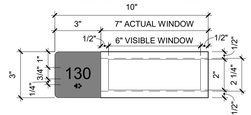

RN **ROOM NUMBER**



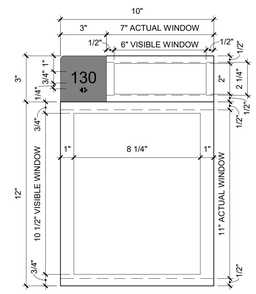

ID1 **IDENTIFICATION 1**
ROOM ID




ID1A **IDENTIFICATION 1A**
ROOM ID W/ WINDOW FOR INTERCHANGABLE 8.5" X 11" DOC.




ID2 **IDENTIFICATION 2**
ROOM ID W/ WINDOW FOR INTERCHANGEABLE ROOM ID



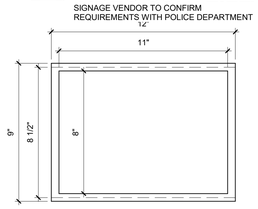

ID2A **IDENTIFICATION 2A**
ROOM ID W/ WINDOW FOR INTERCHANGABLE ROOM ID & 8.5" X 11" DOC.

PICTOGRAM OF CAMERA

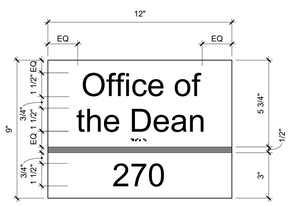
NOTICE

THIS AREA IS UNDER 24 HOUR VIDEO SURVEILLANCE

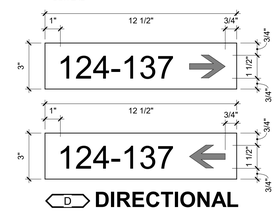
VS **VIDEO SURVEILLANCE**
SIGNAGE VENDOR TO CONFIRM REQUIREMENTS WITH POLICE DEPARTMENT



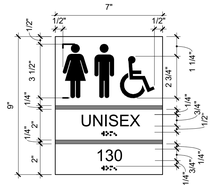

BLK **BLANK**
BLANK W/ WINDOW FOR INTER-CHANGABLE 8.5" X 11" DOC.



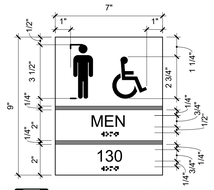

ID3 **IDENTIFICATION 3**
SUITE ID



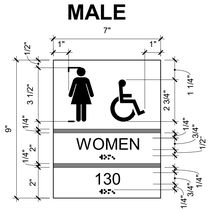

D **DIRECTIONAL**
DIRECTIONAL




RU **RESTROOM UNISEX**

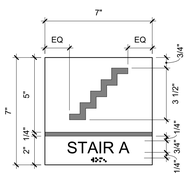



RM **RESTROOM MALE**




RF **RESTROOM FEMALE**

SI **STAIR INTERIOR**
INSIDE OF STAIR

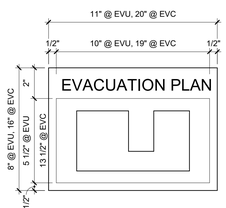



SE **STAIR EXTERIOR**
OUTSIDE OF STAIR

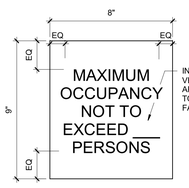
AR **AREA OF REFUGE**

FIRE DEPARTMENT CONNECTION

FDC **FDC**
EXTERIOR METAL SIGN FOR FDC SIGNAGE VENDOR TO CONFIRM REQUIREMENTS WITH CITY FIRE DEPARTMENT

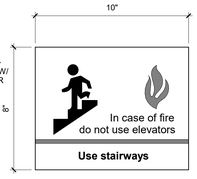



EVU **EVACUATION**
EVC **Unit & Corridor**

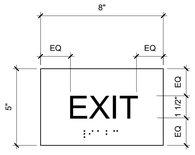



INCLUDE COUNT - VERIFY NUMBER W/ ARCHITECT PRIOR TO SIGN FABRICATION

OC **MAXIMUM OCCUPANCY**
MAXIMUM OCCUPANCY
N.T.S.




EW **ELEVATOR**
ELEVATOR WARNING SIGN
N.T.S.




SX **STAIR EXIT**
TYPICAL EXIT SIGN
N.T.S.

1 SIGNAGE TYPES
3" = 1'-0"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HGA

WAYNE STATE UNIVERSITY

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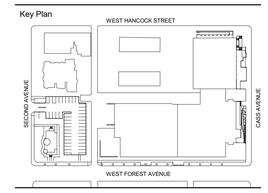
DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
INTERIOR SIGNAGE SCHEDULES, ELEVATIONS & DETAILS

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
A7.8.1

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version

FURNITURE PLAN - LEVEL ONE - SECTOR C
1/8" = 1'-0"

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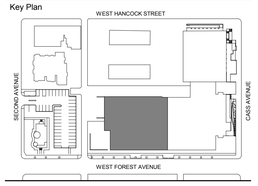
DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
LEVEL ONE EQUIPMENT & FURNITURE PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

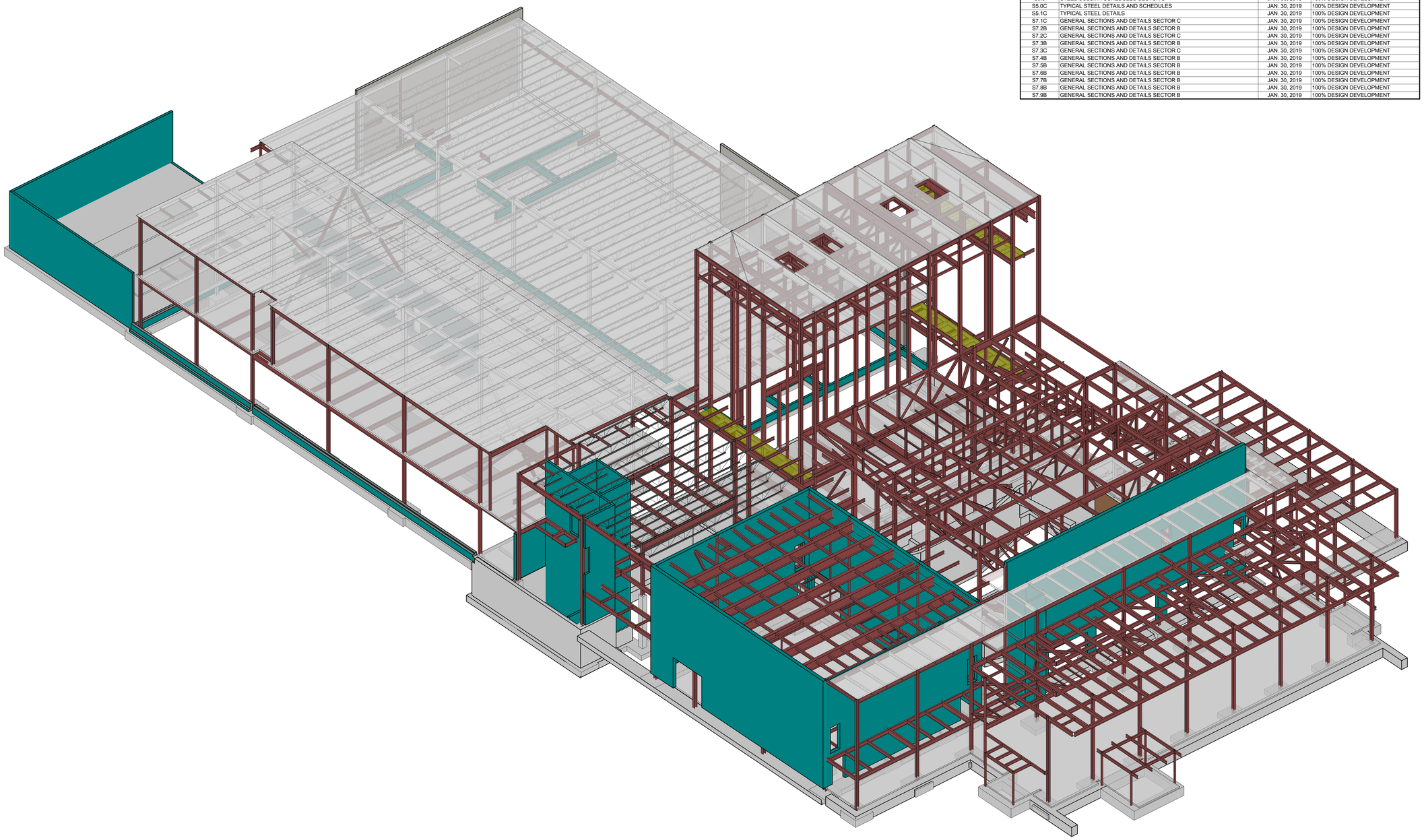
Drawing No:
A7.9.1C

BIM 360://WSU Hilberry Gateway/A18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

## Sheet List

| Sheet Number | Sheet Name | Current Revision Date | Current Revision Description |
|---|---|---|---|
| S0.1 | STRUCTURAL COVER SHEET | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S0.2 | GENERAL STRUCTURAL NOTES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S0.3 | GENERAL STRUCTURAL NOTES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S0.4 | SPECIAL INSPECTION REQUIREMENTS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.0B | FOUNDATION PLAN LOWER LEVEL - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.1B | FOUNDATION AND FIRST FLOOR FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.1C | FOUNDATION AND FIRST FLOOR FRAMING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.2B | UPPER LEVEL(ST) & BACKROW FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.3B | LEVEL TWO & LINK ROOF FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.3C | LEVEL TWO FRAMING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.4B | CONTROL ROOM LEVEL & TECH GALLERY FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.6C | SHOP ROOF FRAMING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.7B | MAIN ROOF, LOBBY ROOF, AND CATWALK FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.7C | MAIN ROOF FRAMING PLAN - SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.8B | HALL ROOF FRAMING PLAN - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S1.9B | GRID IRON & STAGE HOUSE ROOF FRAMING PLANS - SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.1B | STRUCTURAL ELEVATIONS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.1C | BRACED FRAMES AND STRUCTURAL ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.2B | STRUCTURAL ELEVATIONS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.10B | TRUSS ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S2.11B | TRUSS ELEVATIONS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S3.0C | TYPICAL CONCRETE DETAILS AND SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S3.1 | TYPICAL CONCRETE DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S5.0 | STEEL COLUMN SCHEDULES SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S5.0C | TYPICAL STEEL DETAILS AND SCHEDULES | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S5.1C | TYPICAL STEEL DETAILS | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.1C | GENERAL SECTIONS AND DETAILS SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.2B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.2C | GENERAL SECTIONS AND DETAILS SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.3B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.3C | GENERAL SECTIONS AND DETAILS SECTOR C | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.4B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.5B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.6B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.7B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.8B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |
| S7.9B | GENERAL SECTIONS AND DETAILS SECTOR B | JAN. 30, 2019 | 100% DESIGN DEVELOPMENT |



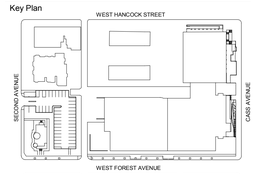
HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# STRUCTURAL COVER SHEET

Project Number: 3995-001-00

Drawn By: FA

Scale: 12" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# S0.1

NOTE

1. STRUCTURAL DRAWINGS ISSUED IN A DESIGN DEVELOPMENT STAGE BEFORE RELEASE AND COORDINATION WITH THE COMPLETE ARCHITECTURAL, THEATER, AND MEP DRAWINGS. STRUCTURAL DRAWINGS DO NOT YET COVER ALL ADDITIONAL DESIGN AND DETAILS (INCLUDING STEEL, CONCRETE, MASONRY, AND/OR OTHER ITEMS) PROVIDED IN THESE FUTURE DOCUMENTS.
2. CONTRACTOR AND/OR ESTIMATOR TO PROVIDE ADEQUATE ALLOWANCE AND CONTINGENCIES TO COVER WORK AND MATERIALS FOR THESE FUTURE STRUCTURAL ITEMS. ALLOWANCE WILL BE CLEARLY INDICATED IN BID DOCUMENTS.
3. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS IN THIS ISSUE.

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Sheet Size: 30" x 42" : Template Version

## DESIGN CRITERIA

The structure is designed for the following live loads, in addition to the lateral loads, super-imposed dead loads, and self weight of the structure. Where applicable, the live loads are reduced in accordance with the provisions of the governing Building Code.

| | | CODE REFERENCE |
|---|---|---|
| Risk Category | III | IBC Table 1604.5<br>ASCE Table 1.5-1 |

### FLOOR LIVE LOADS

| | | CODE REFERENCE |
|---|---|---|
| | | ASCE Table 4-1 |
| STAIR | 100 PSF | ASCE Table 4-1 |
| STAGE FLOORS | 150 PSF | ASCE Table 4-1 |
| OTHER ASSEBLY AREAS | 100 PSF | ASCE Table 4-1 |
| AUDITORIUM | 100 PSF | ASCE Table 4-1 |
| MECH. FLOORS | 250 PSF | ASCE Table 4-1 |
| LIGHT STORAGE | 125 PSF | ASCE Table 4-1 |
| CATWALKS | 50 PSF | ASCE Table 4-1 |
| PARTITION | 15 PSF | ASCE Table 4-1 |

### SNOW LOADS

| | | CODE REFERENCE |
|---|---|---|
| Ground Snow Load | Pg = 25 PSF | ASCE Figure 7-1 |
| Flat Roof Snow Load | Pf = 25 PSF (minimum) | ASCE Section 7.3 |
| Exposure Factor | Ce = 1.0 | ASCE Table 7-2 |
| Importance Factor | I = 1.1 | ASCE Table 1.5-2 |
| Thermal Factor | Ct = 1.0 | ASCE Table 7-3 |

Snow loads adjacent to vertical projections, on lower roofs adjacent to high roofs, or sloped roofs are increased for the effects of drifting.

### WIND LOADS

| | | CODE REFERENCE |
|---|---|---|
| Ultimate Design Wind Speed (3 sec. gust) | Vult = 120 MPH | ASCE Figure 26.5-1A |
| Nominal Design Wind Speed | Vasd = 93 MPH | IBC Section 1609.3.1 |
| Exposure Category | B | ASCE Section 26.7.3 |
| Internal Pressure Coefficient | ± 0.18 (Enclosed) | ASCE Section 26.11-1 |
| Components and Cladding | Per Code Requirements Based on Above | ASCE Chapter 30 |

SECTOR "A"

ROOF COMPONENTS

| | Zone 1 | Zone 2 | Zone 3 | CODE REFERENCE |
|---|---|---|---|---|
| Support Beams (A > 100 SF) | +/- 26 PSF | +/- 36 PSF | +/- 57 PSF | ASCE Table 30.7-2 |
| Roof Sheathing (A = 50 SF) | +/- 28 PSF | +/- 41 PSF | +/- 62 PSF | ASCE Table 30.7-2 |
| Deck Fasteners (A < 10 SF) | +/- 28 PSF | +/- 49 PSF | +/- 72 PSF | ASCE Table 30.7-2 |

WALL COMPONENTS

| | Zone 4 | Zone 5 | | CODE REFERENCE |
|---|---|---|---|---|
| A = 100 SF | +/- 31 PSF | +/- 32 PSF | | ASCE Table 30.7-2 |
| A = 50 SF | +/- 31 PSF | +/- 35 PSF | | ASCE Table 30.7-2 |
| A = 10 SF | +/- 34 PSF | +/- 41 PSF | | ASCE Table 30.7-2 |

SECTOR "B" & "C"

ROOF COMPONENTS

| | Zone 1 | Zone 2 | Zone 3 | CODE REFERENCE |
|---|---|---|---|---|
| Support Beams (A > 100 SF) | +/- 27 PSF | +/- 32 PSF | +/- 32 PSF | ASCE Table 30.7-2 |
| Roof Sheathing (A = 50 SF) | +/- 29 PSF | +/- 39 PSF | +/- 46 PSF | ASCE Table 30.7-2 |
| Deck Fasteners (A < 10 SF) | +/- 29 PSF | +/- 48 PSF | +/- 73 PSF | ASCE Table 30.7-2 |

WALL COMPONENTS

| | Zone 4 | Zone 5 | | CODE REFERENCE |
|---|---|---|---|---|
| A = 100 SF | +/- 30 PSF | +/- 31 PSF | | ASCE Table 30.7-2 |
| A = 50 SF | +/- 30 PSF | +/- 33 PSF | | ASCE Table 30.7-2 |
| A = 10 SF | +/- 32 PSF | +/- 39 PSF | | ASCE Table 30.7-2 |

THEATRE STAGE HOUSE

ROOF COMPONENTS

| | Zone 1 | Zone 2 | Zone 3 | CODE REFERENCE |
|---|---|---|---|---|
| Support Beams (A > 100 SF) | +/- 46 PSF | +/- 72 PSF | +/- 98 PSF | ASCE Table 30.7-2 |
| Roof Sheathing (A = 50 SF) | +/- 40 PSF | +/- 64 PSF | +/- 87 PSF | ASCE Table 30.7-2 |
| Deck Fasteners (A < 10 SF) | +/- 38 PSF | +/- 60 PSF | +/- 83 PSF | ASCE Table 30.7-2 |

WALL COMPONENTS

| | Zone 4 | Zone 5 | | CODE REFERENCE |
|---|---|---|---|---|
| A = 100 SF | +/- 29 PSF | +/- 46 PSF | | ASCE Table 30.7-2 |
| A = 50 SF | +/- 30 PSF | +/- 51 PSF | | ASCE Table 30.7-2 |
| A = 10 SF | +/- 32 PSF | +/- 58 PSF | | ASCE Table 30.7-2 |

Refer to ASCE 7-10 for zone definitions. Calculate wind load for tributary area of design component. Wind loads shown are for use with ASCE 7-10 load combinations (i.e. 0.6 factor for ASD and 1.0 factor for LRFD), and include directionality factor Kd = 0.85, per ASCE Table 26.6-1.

### SEISMIC LOADS

| | | CODE REFERENCE |
|---|---|---|
| Seismic Importance Factor | Ie = 1.25 | ASCE Table 1.5-2 |
| Short Period Mapped Spectral Response Acceleration Parameter (5% of Critical Damping) | SS = 0.096 g | ASCE Section 11.4.1 |
| 1.0 sec. Mapped Spectral Response Acceleration Parameter (5% of Critical Damping) | S1 = 0.047 g | ASCE Section 11.4.1 |
| Soil Site Class | D | ASCE Section 11.4.2 |
| Design Spectral Response Acceleration Parameter (for short period) | SDS = 0.102 g | ASCE Section 11.4.4 |
| Design Spectral Response Acceleration Parameter (1 sec. period) | SD1 = 0.075 g | ASCE Section 11.4.4 |
| Seismic Design Category | B | ASCE Section 11.6 |
| Seismic Force Resisting System | Ordinary Reinforced Masonry Shear Walls | ASCE Table 12.2-1 |
| Seismic Response Coefficient | CS = 0.028 Kips | ASCE Section 12.8.1.1 |
| Response Modification Factor | R =2 | ASCE Table 12.2-1 |
| Analysis Procedure | Equivalent Lateral Force | ASCE Section 12.8 |

### EARTH PRESSURE LOADS

LATERAL EARTH EQUIVALENT FLUID PRESSURE

| | |
|---|---|
| Walls Unbraced at Top | 40 PCF |
| Walls Braced at Top | 55 PCF |
| Allowable Soil Bearing Capacity | 5,000 PSF |

1. Refer to Geotechnical Report for additional Information
2. Lateral earth pressure is based upon drained soil. Refer to drawings for foundation drainage.

### MECHANICAL / ELECTRICAL LOADS

| | |
|---|---|
| Typical Floors and Roof | 10 PSF |
| Penthouse Roof | 25 PSF |

NOTE

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3. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS IN THIS ISSUE.

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## GENERAL STRUCTURAL NOTES

1. The structural notes are intended to augment the drawings and specifications. Should conflicts exist between the Drawings, Specifications and the Structural notes, the strictest provision shall govern.
2. The Structural drawings form an integral part of Contract Documents, which include Architectural, Structural, Mechanical, Electrical, Civil/Site drawings and Specifications. Coordinate the Structural drawings with the requirements shown in the other components of the Contract Documents.
3. Typical details and other sections/details apply to conditions that are similar to the conditions described in the sections/details, even if they are not specifically referenced on the plans.
4. The Contractor shall be responsible for means, methods, sequences and procedures of construction.
5. The structure is designed to be self-supporting and stable after it is fully completed per requirements of Contract Documents. Contractor shall determine erection procedures and sequence, and ensure the safety of the building and its component parts during erection. This includes the addition of temporary bracing, guys or tie-downs if necessary. Contractor shall retain ownership of such material after completion of the project.
6. Construction shall comply fully with the applicable provisions of OSHA and the local Governing Codes, current edition, and all requirements specified in the codes shall be adhered to as if they were called for or shown on the drawings. This shall not be construed to mean that requirements set forth on the drawing may be modified because they are more stringent than the code requirements or because they are not specifically required by code.
7. **Governing Building Code – Michigan (International) Building Code 2015.** Standards listed in structural note sections refer to the version and effective date identified in the REFERENCED STANDARDS Chapter in the Governing Building Code.
8. Work constructed per these drawings shall be inspected by an Independent Testing Agency retained to ensure compliance with the requirements shown on the Drawings. Special Inspections required by the Governing Building Code, local building department and the Contract Documents shall be performed by a qualified Special Inspector. Project site visits by the Engineer do not constitute or replace inspection.

### SHOP DRAWINGS

1. Submit shop drawings for review as indicated in material section of general Structural notes.
2. Use of Engineering Drawings as erection drawings by the Contractor is strictly prohibited.
3. Allow in the schedule - detailing, fabrication and erection - a minimum of 10 working days for review of each shop drawing submittal by the Structural Engineer. Submit shop drawings in reasonable quantities at reasonable intervals (not more than 70 drawings per submittal per week). The 10 working days stated herein, will be in addition to the review time required by other project team members. Submit a shop drawing submittal schedule prior to the first submittal.
4. Review of shop drawings and other submittals by the Structural Engineer does not relieve the Contractor of the responsibility to check the shop drawings prior to submittal. Errors and omissions associated with the preparation of shop drawings not conforming to the Construction Documents are the responsibility of the shop drawing preparer.
5. Shop drawings are an aid for field placement and are superseded by the Contract Documents. Contractor shall ensure that construction is in accordance with the latest Contract Documents. Shop drawing review is only for general compliance with the Contract Documents. Review of the shop drawings by the Structural Engineer does not guarantee that the shop drawings are correct nor infer that the shop drawings supersede the Contract Documents.
6. Contractor shall provide a set of approved shop drawings bearing the review stamp of the Structural Engineer, to the local building department and to the project site.
7. Notes on submitted shop drawings for work "by others" cannot be responsibly approved by Structural Engineer. Contractor shall coordinate responsibility for materials, connections, etc. prior to shop drawing submittal to the Structural Engineer.
8. Contractor shall verify all relevant dimensions and elevations for equipment installations against purchased Manufacturer's certified equipment drawings. Contractor shall coordinate dimensions that depend upon specific equipment, such as elevator openings, mechanical equipment supports, etc., prior to submittal. Such dimensions shall be provided on the shop drawings prior to submittal to the Structural Engineer. Contractor's failure to provide such dimensions on submitted shop drawings will result in shop drawing return without review.

### MECHANICAL & ELECTRICAL EQUIPMENT

1. Pipes of 3 inches or greater in diameter shall be suspended from steel members, using pipe hangers and clamps. Hangers and clamps shall be aligned with structural member centerlines. One sided beam connections, expansion anchors or other anchors to slabs are not allowed for pipes of 3 inches or greater in diameter. Submit details for pipe hangers and attachments for review by Architect/Structural Engineer.
2. Mechanical and electrical equipment weights assumed for structural design are shown on the plans. If the equipment weight varies from that listed, consult with the Architect/Structural Engineer prior to steel shop drawing submittal.

### SHORING AND BRACING

1. Contractor shall provide temporary shoring and bracing of existing construction, new construction, and underground utilities as follows:
   a. Where shown or noted on the Drawings.
   b. Where existing construction is to be altered or disturbed until permanent support is in place.
   c. Where existing construction is not undergoing alteration and is to remain undisturbed but is disturbed as a result of the work of this contract.
   d. As required for safe erection, installation of new construction, equipment, etc.
   e. When needed for Contractor's "means and methods" of construction and other safety related issues.
2. Shoring and bracing shown on the Drawings is conceptual. Contractor shall be responsible for verifying existing conditions, shoring and bracing calculations, methods of installation, transfer of loads through to final load support, and work sequence phasing with new construction.
3. Shoring and bracing shall be performed by a Contractor with minimum 5 years demonstrated experience in similar size and scope of shoring and bracing projects.
4. Shoring and bracing shall be designed by a Professional Engineer registered in the State of the Project with minimum 5 years demonstrated experience in similar size and scope of shoring and bracing projects. Design loads and methods shall conform to applicable codes. Soil and material strengths shall be verified by tests, unless conservative estimates that do not affect deflections and deformations are approved by the Architect/Structural Engineer.
5. Contractor shall submit drawings and calculations sealed and signed by the Contractor's Professional Engineer showing complete design including temporary conditions, final conditions and sequence of work.
6. Before starting work, Contractor shall perform condition survey of the existing building structure, exterior façade and interior finishes, including photographic documentation and submit survey to the Owner for record.
7. During the shoring and bracing operations, Contractor shall:
   a. Keep the existing and new construction in a safe condition.
   b. Monitor existing and new construction to detect any signs of distress or deformation.
   c. Take immediate steps to prevent distress, deformation or damage.
8. Contractor shall continuously monitor the shoring and bracing system. Contractor shall review and ascertain that all field connections are completed according to the Contractor's design and issue approval for inspection of the work by the Testing Agency.
9. After completion of shoring and bracing and completion of work requiring shoring and bracing, Contractor shall repair any damage to the existing and new construction, without any cost to the Owner, and to the satisfaction of the Owner and Architect/Structural Engineer.

### EXISTING CONSTRUCTION

1. Contractor shall visit the site and become familiar with the existing conditions.
2. Existing building dimensions and conditions shown are based upon original drawings or partial survey and have not been completely field verified. The Owner and Architect/Structural Engineer take no responsibility for the accuracy of existing dimensions shown. Contractor shall field measure existing dimensions prior to shop drawing preparation and fabrication.
3. The analysis of the existing structure is based upon information shown on drawings provided by Hamilton Anderson Associates Inc.
4. Contractor shall verify conditions covering or affecting the structural work; obtain and verify all dimensions and elevations to ensure the proper strength, fit and location of the structural work; report to the Architect/Structural Engineer any and all conditions/discrepancies which may interfere with or otherwise affect or prevent the proper execution and completion of the new work in compliance with the Construction Documents. All discrepancies shall be fully resolved prior to commencing work.
5. Existing construction not undergoing alteration is to remain undisturbed. Where such construction is disturbed as a result of the operations of this contract, Contractor shall repair or replace as required and to the satisfaction of the Architect/Structural Engineer and Owner's Representative.
6. Contractor shall verify the existence, location and elevation of existing utilities, sewers, drains, etc. in demolition areas before proceeding with the work. All discrepancies shall be documented and reported to the Architect/Structural Engineer and Owner's Representative for resolution.
7. Should uncharted piping or other utilities be encountered during excavation, Contractor shall consult the Architect/Structural Engineer and Owner's Representative for resolution.
8. Contractor shall provide fire watch during field cutting and welding operations, meeting the Owner's requirements.
9. Contractor shall provide temporary protection of existing equipment during execution of work, satisfying the Owner's requirements.
10. Contractor shall provide temporary protection to prevent damage from the weather and vandalism.
11. Contractor shall coordinate work with the Owner's personnel to avoid any interference in their operations.
12. Refer to SHORING AND BRACING notes for additional requirements.

### FOOTINGS AND FOUNDATIONS

1. Contractor shall verify all conditions, including underground utilities and field measurements at job site and report any discrepancies to Owner's Representative.
2. Provide necessary sheeting, shoring, bracing, etc. as required during excavations to protect sides of excavations.
3. Comply fully with requirements of OSHA and other regulatory agencies for safety provisions.
4. Top of spread footing elevations noted on plan are minimum elevations. In all cases, footings are to bear on undisturbed natural soils or engineered fill having a minimum net allowable bearing capacity of 3,000 psf.
5. Sides of foundations shall be formed. All concrete surfaces shall be maintained smooth and vertical. Slope sides of excavations as approved by the Geotechnical Engineer, and clean up sloughing before and during concrete placement. If existing soil conditions warrant earth forming, Geotechnical Engineer shall make recommendations for specific preparation and procedure to follow.
6. Where footing steps are necessary, they shall be no steeper than one vertical to two horizontal unless noted otherwise.
7. Footings shall be centered under columns and walls unless specifically detailed otherwise on the Drawings.
8. No footings or slabs shall be placed on or against sub-grade containing free water, frost or ice. Should water or frost, however slight, enter a footing excavation after sub-grade approval, the sub-grade shall be re-inspected by the Geotechnical Engineer/Testing Laboratory after removal of water or frost.
9. The Contractor shall provide all necessary measures to prevent any frost or ice from penetrating any footing or slab sub-grade before and after placing of concrete until the full building enclosure is completed and heated.
10. Excavated material shall be legally disposed of off the Owner's property or stored at the site or used for backfilling operations as required in accordance with the Geotechnical Engineer's recommendations and Project Specification requirements.
11. Contractor shall furnish all required de-watering equipment to maintain a dry excavation until backfill is complete.
12. Where new footings are adjacent or abut existing foundations, carefully hand excavate and determine bottom of existing foundation. If different than anticipated, adjust new foundations to match existing. In no case shall the new footing be lower than the existing without protection against undermining such as underpinning or shoring.
13. Foundation bearing soils shall be inspected by a qualified Geotechnical Engineer. The testing shall include, but not be limited to, identification of soils at and below the foundation bearing level, and the allowable bearing capacity of these soils.
14. A Geotechnical Engineer registered in the State of the Project shall inspect the condition and assure the adequacy of all subgrades, fills, backfills before placement of foundations, footings, slabs and walls. They shall submit reports to the Architect/Engineer describing their investigations, including any non-conforming work.
15. The design of foundations, retaining walls, and slab on grade is based on the criteria established in the Geotechnical Report No. 58871 by Testing Engineers & Consultants Inc. dated June 20,2018. Refer to the report for additional considerations related to ground water conditions and control, drainage, site preparations, earthwork operations and work adjacent to the existing building.

### SITE PREPARATION

1. Refer to Geotechnical Report No. 58871 by Testing Engineers & Consultants Inc. dated June 20,2018 for consideration related to site preparation and earthwork operations. The requirements and recommendations contained in the report are part of Contract requirements.

### BACKFILLING

1. Do not place backfill against foundation walls - designed as supported at top and bottom - until basement level and first floor slabs are in place. Shore and/or brace walls as required if backfilling operations are to be carried out prior to placement of floor slabs.
2. Place backfill against basement retaining walls - designed as cantilevered - after concrete has attained design strength and before lower level and first floor slabs are in place.
3. Where backfill is to be placed on both sides of foundation walls, provide a balanced backfill against foundation walls to eliminate lateral load effects, or provide necessary temporary lateral support to the top of the wall until permanent support is installed.
4. Backfill material shall consist of clean, well grade granular soils, free of organic material, silt and clay, or as specified in the Project Specifications.
5. Backfill material shall be compacted to 95% of maximum density, as determined by the Modified Proctor Method (ASTM D1557), in lifts not exceeding 6 inches.

### CAST-IN-PLACE CONCRETE

1. Concrete structural framing has been designed by the Ultimate Strength Method per ACI 318 "Building Code Requirements for Structural Concrete".
2. Concrete work shall conform to the requirements of ACI 301, "Specifications for Structural Concrete of Buildings", and ACI 318 "Building Code Requirements for Structural Concrete" except as modified by Structural requirements noted on the Drawings.
3. All concrete work shall conform to ACI 201.2R, "Guide to Durable Concrete". Parking structures shall also conform to ACI 362.1R, "Guide to Durable Concrete for Parking Structures".
4. Cement shall conform to ASTM C150 "Specification for Portland Cement" type I or III.
5. Concrete aggregates shall conform to ASTM C33 "Specification for Concrete Aggregates".
6. Reinforcing shall conform to ASTM A615 grade 60, unless noted otherwise.
7. Reinforcement shall be fabricated and erected according to the ACI standards: "Details and Detailing of Concrete Reinforcement", ACI 315 - and "Manual of Engineering and Placing Drawings for Reinforced Concrete Structures", ACI 315R.
8. Welded wire fabric shall be furnished in flat sheets (rolls not permitted) and shall conform to ASTM A-185 and have a minimum side and end lap of 8 inches.
9. Welding of reinforcing steel is prohibited unless specifically detailed. Welding where detailed shall conform to AWS D1.4 specification.
10. A copy of ACI SP-15 "Field Reference Manual", ACI 301 "Specifications for Structural Concrete" with a selected ACI and ASTM references, shall be kept in the Contractor's field office.
11. Concrete shall have a minimum 28-day compressive strength as follows:
    Foundations: 4,000 psi
    Slab-on-grade: 4,000 psi
    Supported Floor Slabs 4,000 psi
    Concrete piers and walls: 4,000 psi
12. Exterior concrete, and interior concrete subjected to freeze/thaw cycles, salt, etc., including walls, shall be air-entrained 6% +/- 1%.
13. Concrete shall be normal weight, unless indicated otherwise.
14. Contractor shall submit the concrete mix design(s) for review by the Structural Engineer. Proportion mix designs and provide proof of mix design strength as defined in ACI 301. The submittal shall include cement type and source, cement cube strength, aggregate gradations, water tests, admixture catalog information and cylinder strength test results from 30 tests, on specimens with identical mix design, for each concrete mix, or other proof of strength per ACI 301.
15. The approved materials and mix design shall be fully documented and reviewed by the Testing Agency for full compliance. Responsibility for obtaining the required design strength is the Contractor's responsibility.
16. Use of calcium chloride, chloride ions, or other salts in concrete is not permitted.
17. Samples for strength tests of each class of concrete placed each day shall be taken by the Testing Agency in accordance with Project Specification requirements or ACI 301.
18. Contractor shall prepare and submit reinforcement shop drawings to the Structural Engineer for review prior to fabrication. The shop drawings shall clearly show reinforcement lengths and bends, locations of bars, methods of support, details of placement and placement coordination with formwork, embedments, concrete vibration and construction joints. The drawings shall also indicate openings, sleeves, curbs and concrete dimensions in accordance with ACI 315. Provide, at minimum wall, column and beam elevations; wall, column and beam sections, material schedules, bar lap schedules and locations.
19. Contractor shall tie reinforcing steel securely in place prior to placing concrete and provide sufficient supports to maintain the position of reinforcing within specified tolerances during all construction activities. Inserting dowels into wet concrete is not permitted.
20. Contractor shall provide continuous reinforcement wherever possible; splice only as shown or approved; stagger splices where possible; use splice lengths as noted. Dowels shall match the size and spacing of the specified reinforcement and shall be lapped with tension splices, unless noted otherwise.
21. Horizontal wall reinforcement shall be continuous with the minimum lap per ACI 318 unless detailed or noted otherwise. Corner bars shall be provided at changes in wall direction (however small) and shall be of the same size and spacing as the horizontal steel. Each corner bar leg to provide lap splice per ACI 318 unless detailed or noted otherwise. Extend horizontal wall reinforcing through piers.
22. Hooked bars shall be standard 90 degree hooks per ACI unless noted otherwise on the Drawings.
23. Minimum lap splice shall be Class B per ACI 318. Location of lap splices shall be as indicated on Construction Documents and/or as shown on the approved reinforcing steel shop drawings.
24. Approved rebar couplers may be used to aid placement of dowels through forms. Mechanical splices shall develop 125% of the tensile strength of the rebar.
25. Reinforcing steel shall not be cut, bent or straightened in the field unless approved by the Structural Engineer or as indicated on the Drawings.
26. Reinforcing steel shall be placed with the following concrete cover unless noted otherwise:
    A. Concrete cast against earth (not formed): 3"
    B. Formed concrete exposed to earth or weather:
       a. #5 bars or smaller: 1 1/2"
       b. #6 thru #18 bars: 2"
    C. Formed concrete not exposed to earth or weather:
       a. Slabs, joists, and walls, #11 bars or smaller: 3/4"
       b. Slabs, joists, and walls, #14 bars or larger: 1 1/2"
       c. Beams, columns, pedestals, and tensions ties: 1 1/2"
    D. Clearance between parallel bars in a horizontal layer shall not be less than the bar diameter, 1", or 4/3 d agg, whichever is greater.
    E. Clearance between parallel bars in two or more horizontal layers, shall not be less than 1" between layers.
    F. Clearance between longitudinal bars in columns, pedestals, struts, and boundary elements in walls shall not be less than 1.5 times the bar diameter, 1 1/2", or 4/3 d agg, whichever is greater.
    G. Maximum deviation from these requirements shall be:
       + 3/8" for sections with dimensions of 8" or less
       + 1/2" for sections with dimensions over 8"
27. Tie embeds securely in place prior to placing concrete.
28. Do not place pipes or ducts exceeding one quarter the slab or wall thickness within the slab or wall unless specifically shown and detailed on the Structural drawings. Pipes or duct shall be located within middle third of slab or wall thickness.
29. Install inserts and anchors in concrete for suspending mechanical, electrical and architectural items. If additional fasteners are needed in conventionally reinforced concrete, use drilled-in type anchors located to avoid conflict with reinforcement.
30. Anchor rods and steel embeds (furnished by Structural Steel Contractor) shall be set by template to within a 1/8" tolerance in any direction with minimum embedment and exact projection indicated on the drawings, prior to placing concrete.
31. No aluminum conduit or products containing aluminum or any other material injurious to the concrete shall be embedded in the concrete.
32. Dowels into foundation shall match size and spacing of vertical reinforcement at all columns, piers and walls, unless otherwise noted.
33. Contractor shall coordinate all masonry dowel sizes and spacing to be cast into concrete with masonry reinforcing shop drawings.
34. Provide two #5 bars (one each face) around unframed openings in slabs and walls. Place bars parallel to sides of openings and extend them 24 inches beyond corners, unless otherwise noted.
35. Locate sleeves, openings, embeds, etc. as indicated on the drawings. The Concrete Contractor shall check with other trades to make sure the sleeves, openings and embeds that are to be provided and set by them are in place prior to placing of concrete in the area involved.
36. Contractor shall obtain approval prior to placing openings or sleeves not shown on the Drawings, through any structural member.
37. Contractor shall review Architectural, Mechanical and Electrical drawings for bases, openings, sleeves, anchors, inserts, conduits, recesses and other devices in concrete work before placing concrete.
38. Horizontal construction joints are permitted only where indicated. The location of vertical construction joints shall be submitted to the Structural Engineer for review and approval. Construction joints shall be thoroughly mechanically roughened, cleaned and bonding agent applied before placement of adjoining concrete.
39. For control joints in slabs, space joints at maximum 12'-0" on center unless otherwise noted on the Drawings. For control joints in walls, space joints at maximum 10'-0" on center unless otherwise noted on the Drawings.
40. Construction joints shall be furnished with a full length keyway centered on members. Where the size of key is not shown on the Drawings, the key shall be 25% of the cross section dimension of the member and minimum 1-1/2 inches into the first pour of concrete.
41. Provide waterstops in construction joints in cast-in-place concrete elements that have one side exposed to the weather or soil and the other side occurring adjacent to enclosed space. Refer to Drawings and Specifications for other waterproofing and damp proofing details.
42. Provide 3/4" by 3/4" chamfer strips at all exposed corners of concrete members, unless noted otherwise.
43. Provide dovetail slots in concrete members where masonry abuts and where required for veneer attachment.
44. The Concrete Contractor shall be responsible for all pour sequences and construction procedures for all concrete work to account for temperature differentials and shrinkage occurring during the construction phase until the building is permanently in a mechanically controlled environment.
45. Coordinate vapor retarder requirements with floor finish requirements.
46. Provide pockets or recesses in concrete work for steel columns and beams as required and/or as called for in the Specifications even if not shown on the Drawings. Provide concrete fill after steel erection.
47. Refer to Architectural drawings for slab recesses and for floor finish materials and requirements.
48. Provide recess in top of basement walls and grade beams, where applicable, for door openings, ramps, for support of thickened floor slabs, and to receive door jambs.
49. Concrete shall be placed to the constant top of slab elevations, while maintaining the minimum concrete thickness noted on the Drawings.
50. The use of chlorides such as deicing salts is prohibited for melting ice prior to placement of concrete.
51. Sizes of concrete placements shall not exceed the following, unless otherwise indicated on the plans:
    A. <u>Walls:</u> 40 feet maximum length
    B. <u>Slabs on grade:</u> Place in alternating strips (approximate width 30 feet & maximum length 200 feet)
52. For floor finish tolerances for interior slabs, refer to Specifications.
53. Curing of concrete surfaces shall conform to ACI 308.1 "Standard Specification for Concrete Curing" and ACI 308R "Guide to Curing Concrete".
54. Joints between the structural (and architectural) members shall be properly prepared and filled with joint sealant unless noted otherwise. All joint edges, including top and bottom surfaces and vertical and horizontal surfaces shall be formed or tooled as required. Joint sealant shall be applied only to the top, vertical, and horizontal surfaces unless noted otherwise on the Drawings.
55. Joints to be prepared and filled with joint sealant shall include, but are not limited to, construction joints, control joints, isolation joints, and all interface joints between similar and dissimilar members. Specific locations may be indicated on the Drawings, or may be required by approved shop drawings, or may occur due to the construction sequence selected by the Contractor.
56. Prior to placing concrete adjacent to existing concrete, mechanically roughen, then thoroughly clean and de-grease existing concrete surfaces. Apply epoxy bonding agent prior to placing fresh concrete. Bonding agent shall be "Sika Armatec 110 EpoCem" by Sika Corporation, or approved equal. Follow all Manufacturer's instructions for surface preparation, mixing and application.
57. Prior to placing concrete topping, mechanically roughen, then thoroughly clean and de-grease existing concrete surfaces. Soak existing concrete surfaces for minimum 12 hours. Place a concrete-slurry of cement and water within 1 hour of topping placement.
58. Concrete toppings shall be reinforced with collated, fibrillated, polypropylene fibrous reinforcement.
59. Non-shrink grout shall conform to ASTM C1107. Grout shall be premixed, non-shrink, non-catalyzed natural aggregate grout with a minimum 7-day compressive strength of 7,000 psi plastic, 6,000 psi flowable, and 5,000 psi fluid consistency.
60. Reinforcing steel, anchor rods and embed placement shall be inspected, prior to placement of concrete, in accordance with ACI 318 and code required Special Inspection by qualified Inspector prior. These inspections are not included in the basic services of the Structural Engineer of Record.

### Guidelines for Cold Weather concrete operations:

1. Provide a concrete mix suitable for cold weather concreting taking into account curing methods listed below.
2. The concrete temperature should not be too low during placement; for not too low temperatures (between 32 degrees F and 60 degrees F) provide adequate insulation of formwork and exposed surfaces, meanwhile, for temperatures below 32 degrees F, keep the concrete heated by an external heat source either by heating the formwork directly or by enclosing the concrete and the formwork and heating the enclosure. If dry-heat is used, special care must be taken not to dry-out the concrete.
3. The concrete shall be allowed to cool down gradually. The maximum drop in concrete temperature during the first 24 hours shall not exceed 40 degrees F.
4. For cold-weather application of grouts and bonding agents, follow the Manufacturers written instructions.

### CONCRETE CUTTING

1. Map existing reinforcing steel and adjust bolt hole locations to avoid cutting of any reinforcing steel.
2. Do not use pneumatic concrete breaker, hammer or sledge for cutting openings in the existing concrete.
3. Use ball peen hammer and diamond-blade reciprocating concrete saw for starting holes and cutting concrete near corners. Saw overcuts at corners of opening are not permitted. Overcut, if any, shall be injected with epoxy before placement of steel channels.
4. Saw cut on both sides of the concrete wall as required for creating the opening. Provide an epoxy bonding agent (Sika Armatec 110 or approved equal) on the saw-cut surface and apply 3/8" repair mortar (SikaTop 123 plus or approved equal) to even out the saw cut.

### MASONRY NOTES

1. Concrete masonry has been designed in accordance with ACI 530, "Building Code Requirements for Masonry Structures" and shall be constructed in accordance with ACI 530.1, "Specifications for Masonry Structures".
2. Concrete Masonry to have a minimum 28-day compressive strength f`m=2,000 psi unless oted otherwise.
3. Concrete Masonry units (CMU) shall conform to the following standards:
   a. Load-Bearing Units: ASTM C90
   b. Medium Weight Units: 105 to 125 pcf
   c. Normal Weight Units: greater than 125 pcf
4. Load-bearing CMU shall be at minimum medium weight units, unless noted otherwise.
5. Mortar for all masonry shall conform to ASTM C270 with minimum compressive strength of 1,800 psi. Mortar below grade shall be type M. Elsewhere mortar may be either type M or S unless specifically indicated otherwise. Use either Portland cement/lime or masonry cement for mortar.
6. Grout shall conform to ASTM C476 with minimum 28-day compressive strength of 3,000 psi.
7. Steel bar reinforcement shall conform to ASTM A615, grade 60.
8. Horizontal joint reinforcement shall be "Ladder" type with (W1.7 for low walls without cavity wall with veneer) (3/16 inch for high walls and walls with cavity and veneer) diameter longitudinal bars. Spacing of horizontal joint reinforcing shall be 16" on center, maximum.
9. Minimum vertical CMU wall reinforcing shall be continuous #5 bars at 48" on center, unless noted otherwise. Dowels to concrete foundation to match size and spacing of reinforcing unless noted otherwise. Reinforce CMU core at corners, each side of control joints and each side of wall openings with additional (2) #5 continuous vertical reinforcing bars.
10. Vertical cells containing reinforcing and grout shall form a continuous cavity, free of mortar droppings.
11. Horizontal lintels shall be placed at the top of all masonry wall openings with (2) #5 minimum continuous horizontal reinforcing bars positioned at the bottom of the fully grouted lintel, unless noted otherwise. Coordinate lintel elevations with Architectural Drawings and approved masonry reinforcing shop drawings.
12. Horizontal bond beams shall be placed at all floor levels, all stair landing levels, roof level, and top of parapets. Bond beams shall be reinforced with (2) #5 minimum continuous horizontal reinforcing bars positioned at the top of the fully grouted bond beam, unless noted otherwise. Coordinate bond beam elevations with Architectural Drawings and approved masonry reinforcing shop drawings.
13. Horizontal bond beam and vertical reinforcing shall be continuous unless noted otherwise. Lap splice reinforcing per the schedule below or use mechanical splices adequate for 125% of specified yield strength of the bar. Lap vertical reinforcement with minimum dowels of same size and spacing that have been previously installed in the foundations. Dowel embedment in concrete shall conform to the requirements of the CAST-IN-PLACE CONCRETE notes.

| BAR SIZE | LAP SPLICE LENGTH |
|---|---|
| #4 | 24" |
| #5 | 30" |
| #6 | 48" |
| #7 | Provide mechanical splice |

14. Reinforcing bars shall be held in position by wire ties or other approved means to insure design location and lap. Place bars and lap prior to grouting.
15. Grouting of masonry walls shall conform to recommended procedure for "low lift grouting" or "high lift grouting" as outlined in the NCMA TEK 3-2A – "Grouting Concrete Masonry Walls" and ACI 530.1/ASCE 6 "Specification for Masonry Structures". Grout lifts shall not exceed 5 feet without mechanically consolidated (vibrated) grout pours.
16. Lifts of grout shall be keyed 4 inches into the previous course of masonry below.
17. Masonry below grade shall be grouted solid.
18. Sampling and Testing of mortar and grout shall be in accordance ASTM C780 and ASTM C1019, respectively. One test of each is required for each 5,000 square foot of wall.
19. Construction and testing of masonry prisms shall be in accordance with the procedure outlined in the ASTM C1314.
20. Special Inspection of masonry construction is required. Refer to project specifications and ACI 530 for quality assurance requirements. Special Inspection shall include at minimum:
    a. Mortar and grout testing.
    b. Reinforcement placement and lap verification.
    c. Verification of clear grout space prior to grouting.
    d. Verification of proper grouting procedures (grout lift and consolidation).
21. Contractor shall brace masonry walls to resist wind loads until floors and roofs are in place, and the masonry has reached 75% of the required strength f`m. Bracing shall be provided in accordance with OSHA – Construction Safety Standards for Masonry Wall Bracing and NCMA TEK 3-4B – "Bracing Concrete Masonry Walls During Construction".
22. Contractor shall shore masonry walls above masonry bond beam lintels until the masonry is placed full height and has reached the required strength.

### STRUCTURAL STEEL

1. Design, fabrication and erection of structural steel shall be in accordance with the American Institute of Steel Construction (AISC) 360 Specification for Structural Steel Buildings and the Steel Construction Manual, Load and Resistance Factor Design LRFD.
2. Structural steel shall conform to the following ASTM specifications and minimum yield strength:

| | | |
|---|---|---|
| W Shapes | A572 Gr. 50 | Fy = 50 ksi |
| Miscellaneous shapes and plates | A36 | Fy = 36 ksi |
| Round Tubes | A500 Grade B | Fy = 42 ksi |
| Pipe | A53 Grade B | Fy = 35 ksi |
| Square Tubes | A500 Grade B | Fy = 46 ksi |

3. Masonry and brick lintels shall be galvanized G90 per ASTM A123.
4. Checkered plate shall be Fy = 36 ksi steel per ASTM A786 and have medium raised lug pattern.
5. Anchor rods shall conform to ASTM F1554 Grade 36, unless noted Grade 55 or other on Drawings.
6. Structural steel bolting shall be ASTM A325 type N, 3/4" diameter snug tight except where other size, ASTM A490 N, pre-tensioned or slip-critical type bolts are indicated.
7. ASTM A490 bolts in tension shall be pre-tensioned.
8. Shear connectors shall conform to the requirements of "Structural Welding Code – Steel" of the American Welding Society, ANSI/AWS D1.1, Fu = 65 ksi, as manufactured by Nelson Stud Welding, Div. of TRW, or approved substitute, and welded as per Manufacturer's written instructions.
9. Welding shall be done with appropriate E70 series electrodes compatible with the new and existing steel. Welds and welding procedures shall conform to, and welders shall be qualified in accordance with, the "Structural Welding Code - Steel" of the American Welding Society, ANSI/AWS D1.1.
10. Detailing shall be performed using rational engineering design and standard practice in accordance with the Contract Documents. The typical details shown are approximate only and do not indicate the required number of bolts or weld sizes, unless specifically noted.
11. Contractor shall submit for review, typical connection details and calculations sealed by a Professional Engineer registered in the State in which the Project is being constructed for proposed connections and for connections not specifically designed and detailed. Follow the details shown where specific connections are detailed.

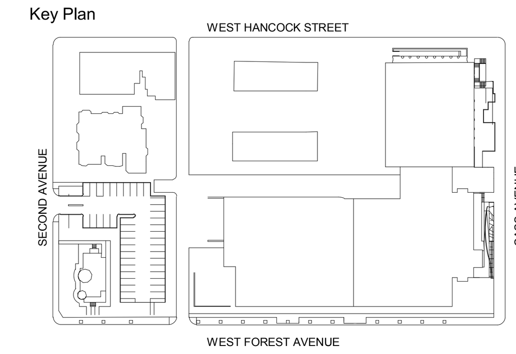
HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# GENERAL STRUCTURAL NOTES

Project Number: 3995-001-00

Drawn By: FA

Scale: 12" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S0.2

Sheet Size: 30" x 42"
: Template Version

**STRUCTURAL STEEL (CONT.)**

12. Contractor shall submit for review, engineered drawings showing shop fabrication details, field assembly details and erection diagrams for all structural steel. Show at minimum all details included in these Contract Documents with additional erection details as required to completely define the interconnection of structural steel pieces.

13. Fabricator shall be AISC Certified or have an AISC equivalent Quality Assurance program as certified by a qualified independent testing agency.

14. Anchor rods, base plates and bearing plates shall be located and built into connecting work, pre-set by templates or similar method prior to concrete placement. Plates shall be set in full beds of non-shrink grout.

15. Contractor shall reference Architectural drawings for miscellaneous shapes and plates not shown on structural drawings. These items shall be shop welded to the structural framing sections to minimize field welding.

16. The length, dimension and connection detail from new structural member to existing structures shall be field verified before fabrication. Field modifications to the fabricated member or connection are not allowed without prior approval by the Structural Engineer. Contractor shall submit sketches or shop drawings detailing proposed modifications for approval.

17. Contractor shall provide L4x4x1/4 seats at column webs where required for support of roof and floor decks. Provide angle outrigger from exterior columns for slab and roof edge plate support.

18. Non-composite beam connections shall be capable of supporting minimum 50% of the Maximum Total Uniform Load, AISC Steel Construction Manual, unless specifically noted on the Drawings.

19. Beam connections shall be standard AISC approved connections. Extended shear plate connections protruding from column web only approved where beams/girders on either side of column web have equally loaded bays.

20. Simple shear connections shall be capable of end rotation as per the requirements of the AISC Specification, Simple Connections, Specification Section J1.2 and Manual Part 10.

21. Connections shall be shop welded in accordance with latest AWS Specifications for E70XX electrodes and field bolted with ASTM A325 or ASTM A490 bolts.

22. Contractor shall install A325 and A490 bolts in accordance with the "Specification for Structural Joints Using ASTM A325 or A490 Bolts." Snug tight condition shall be achieved using an impact wrench, to bring the connected plies into firm contact, except where noted as slip-critical, pre-tensioned or finger tight.

23. Contractor shall provide slip-critical connections at braced frames, moment connections, beams and columns supporting cranes and equipment, mechanical penthouse and elevator room framing and where bolts are in tension.

24. Contractor shall provide 3/4" diameter shoulder bolts, double nuts or tack welded nuts finger tight to allow vertical movement with lock washers at slotted connections of wind columns or as noted.

25. Where field welding to existing structural steel is indicated, contractor shall thoroughly clean all surfaces to receive weld, removing rust, paint, dirt and other foreign matter in rea of work. Provide fire watch protection acceptable to the Owner.

26. Beams shall be fabricated with the natural camber up. Provide cambers as indicated on the drawings.

27. Stiffener plates and bearing stiffeners are to be provided in pairs.

28. Brick relieving angles shall be bolted to plate work as indicated and field welded after alignment to a tolerance of +/- 1/8" from the location specified on the Architectural drawings. The alignment and adjustment shall be done after placement of concrete on floor slabs and after placement of roofing including ballast where applicable.

29. Fabrication and erection tolerances for brick frames shall conform to the requirements for Architecturally Exposed Structural Steel (AESS) per AISC 303 Code of Standard Practice for Steel Buildings and Bridges Section 10, with adjustment to meet the brick shelf tolerance noted above unless otherwise specified.

30. Secondary steel framing supporting exterior façade shall have connections with minimum 1 inch lateral and 1/2 inch vertical adjustment - allowance each direction from center of attachment point. Contractor shall provide slotted holes and shims as required to provide adjustment.

31. Wood blocking shall be fastened to adjacent steel members using minimum 0.177" diameter power actuated fasteners or equivalent fasteners coordinated with the steel thickness. Install 2 fasteners at 3" minimum spacing across the member spaced along the length at 24" on center.

32. Clean steel per SSPC-SP3 and shall receive one shop coat of paint. Omit paint at holes for slip critical type connections, at structural steel to be fireproofed, encased or in contact with concrete, and on top flange of beams receiving shear connectors.

33. Steel above the roof and outside the building envelope (exposed to weather) shall be cleaned per SSPC-SP6 and hot dip galvanized. Finish paint shall be epoxy second coat and acrylic finish coat by same paint manufacturer as prime paint per approved paint system.

34. Contractor shall provide adjustable channel slots on steel columns for masonry ties at 16" on center maximum vertical spacing at ends of all CMU walls which are adjacent to steel column locations. Contractor shall coordinate requirements with steel and masonry contractors.

35. Contractor shall control erection procedures and sequences with relation to temperature differentials, especially with respect to structural steel framing into concrete walls, beams or columns.

36. Contractor shall provide temporary bracing as required to ensure stability of the structure under full design loads until the permanent bracing is in place. Provide necessary shoring where required during construction.

37. The steel frame is self supporting for lateral loads after:
    a. Connections, braces and moment frames have been completely welded and bolted.
    b. Concrete strength, f'c, of the slab has attained 3,000 psi.
    c. Masonry bearing and shear walls have reached design strength.
    d. The roof deck has been properly installed and attached.

38. Shop and Field Testing of welds and/or bolts shall be as follows:
    a. All welds shall be visually inspected; 15% at random shall be measured.
    b. Fillet welds for beam and girder shear connection plates (10% at random) shall be checked by magnetic particle (ASTM E709) for final pass only.
    c. Check 100% of continuity plate fillet welds by magnetic particle on last layers.
    d. Ultrasonically test 100% of full penetration welds (ASTM E94 & E1032).
    e. Ultrasonically test 100% of partially penetration column splice welds.
    f. Visually inspect that all bolted connections are made with proper fastener components, are fabricated properly and the bolted joint is drawn into firm contact.
    g. Check by calibrated torque wrench 25% of bolts in each slip critical shear connection, but not less than two (2) bolts per connection.
    h. Inspect all expansion anchors and adhesive (epoxy) anchors according to manufacturer's recommendations. Pull test minimum 5% and minimum 2 of each application of location and anchor type.
    i. Ultrasonically test for laminations in column flanges at moment connections to columns with flanges over 1-1/2 inch thickness. Test prior to fabrication, after fabrication and after final field welding of beam to column flange.

39. Welding shall be inspected by an AWS Certified Welding Inspector (CWI).

40. Contractor shall schedule work to allow the above testing requirements to be completed.

**POST-INSTALLED ANCHORS**

1. Post-installed anchors include all mechanical and adhesive anchors noted on Construction Documents. All post-installed anchors shall conform to AC193 for mechanical anchors and AC308 for adhesive anchors.

2. Use only code approved anchors with valid ICC-ESR Evaluation Report for use in base material shown on the Construction Documents. Submit ICC-ESR Evaluation Report to Structural Engineer and Special Inspection Agent for approval.

3. Installer of post-installed anchors shall be trained by anchor Manufacturer.

4. Clean existing concrete surface to solid structural concrete. Grind smooth for full steel contact and to prevent gaps between steel and concrete. Alternatively, provide non-shrink grout in all voids between steel and base material.

5. Drill smaller diameter pilot hole in existing concrete and check for existing reinforcing. Do not cut or damage existing reinforcing.

6. If existing reinforcing is found, shift hole to avoid existing reinforcing. Submit location of new hole to Structural Engineer for review.

7. Install mechanical anchors and adhesive anchors in strict accordance with Manufacturer's written recommendations and procedure detailed in ICC-ESR Evaluation Report.

8. Special Inspections are required for all mechanical and adhesive anchors. Inspect and test post-installed anchors as specified in ICC-ESR Evaluation Report.

9. Adhesive for rebar and anchors in concrete has been designed based on cracked concrete and seismic applications as applicable, in accordance with ACI 355.4 and ICC-ES AC308. Design adhesive bond strength shall be based on ACI 355.4 Temperature Category A with installation into dry holes, using a carbide drill bit into cracked concrete that has been cured for at least 21 days.

10. The following anchors are approved. Submittals for alternative equal anchors will be reviewed by Structural Engineer and approved at their discretion.

| Anchor Type: | Approved Anchor | ICC-ESR Report No. | Base Material |
|---|---|---|---|
| Screw Anchors | Hilti Kwik HUS-EZ | ESR-3027 | Concrete |
| | | ESR-3056 | Grouted Masonry |
| Steel Drop-In Anchor | Hilti HDI/HDI-L | (n/a) | Concrete |
| | Hilti HDI-P | (n/a) | Precast Concrete |
| Expansion Anchors | Hilti Kwik Bolt TZ | ESR-1917 | Concrete |
| | Hilti Kwik Bolt 3 | ESR-2302 | Concrete (un-cracked only) |
| Adhesive Anchors | Hilti HIT-HY200 SAFESET | ESR-3187 | Concrete |
| | Hilti HIT-HY70 + HAS/REBAR | ESR-3342 | Grouted Masonry |
| | Hilti HIT-HY70 + HAS/REBAR | ESR-2682 | Hollow Masonry |

Note: Refer to plan notes, details and/or schedules for diameter of anchor rods or size of rebar used and the embed depth required for post-installed anchors.

**CONCRETE CUTTING**

1. Map existing reinforcing steel and adjust bolt hole locations to avoid cutting of any reinforcing steel.

2. Do not use pneumatic concrete breaker, hammer or sledge for cutting openings in the existing concrete.

3. Use ball peen hammer and diamond-blade reciprocating concrete saw for starting holes and cutting concrete near corners. Saw overcuts at corners of opening are not permitted. Overcut, if any, shall be injected with epoxy before placement of steel channels.

4. Saw cut on both sides of the concrete wall as required for creating the opening. Provide an epoxy bonding agent (Sika Armatec 110 or approved equal) on the saw-cut surface and apply 3/8" repair mortar (SikaTop 123 plus or approved equal) to even out the saw cut.

**EXISTING CONCRETE REPAIR**

1. In defective areas, if depth of defective concrete does not extend past centerline of any exposed reinforcement, repair and patch the areas as specified in Specifications, Section 03300.

2. In defective areas, if depth of defective concrete extends past centerline of any exposed reinforcement, repair and patch the areas as indicated on Typical Details.

**EXISTING STEEL CLEANING**

1. Follow Specifications, Section 05120, for existing steel surface cleaning and protective coatings, except SP6-Commercial Blast Cleaning shall be used for any architecturally exposed structural steel.

**EXISTING STRUCTURE WELDING PROCEDURE**

1. All welding shall be in accordance with the AWS D1.1, Structural Welding Code. Only welders qualified to the AWS Code shall be allowed to weld on the structure. Only a low-hydrogen welding process shall be allowed for welding on these structures. The shielded metal arc welding (i.e. SMAW or stick welding) process with E7018 welding electrodes is the preferred method of welding on these structural steel elements. The following precautions must be observed during any welding of steel at this site:
    a. Only a low-hydrogen welding process shall be used. SMAW process is preferred, with the use of E7018 low-hydrogen electrodes, such as Atom Arc 7018, which comes in hermetically sealed containers. These welding electrodes must be protected from moisture pick-up and the use of electrode ovens is highly recommended.
    b. If the vertical uphill or overhead welding positions are required, a 1/8" diameter welding electrode shall be used, with the smallest possible weave.

2. Welding Procedure Specification E7018:
    a. Base Metal: Structural Steel
    b. Filler Metal: AWS Specification – A5.1
    c. AWS Classification: E7018
    d. Manufacturer: Esab or Atom Arc
    e. Electrical Characteristics: Direct current, electrode positive (i.e. reverse polatity)
    f. Backing material: None required
    g. Shielding gas: None required
    h. Backup gas: None required

3. Preheat:No preheat is required for base metal thickness up to and including 1", except for the following:
    a. As an aid in removing moisture
    b. If base metal thickness exceeds 1", a 150 degree (F) preheat within inches of the weld location shall be employed.

4. Welding positions:Vertical, horizontal, overhead, and down flat.

5. Technique:Stringer bead techniques shall be preferred for vertical up and overhead positions, the smallest possible weave shall be used.

6. General welding technique:

| Operation Description | Bead Layers | Weld Proc. | Electrode Size | Current Type (Amps) | Voltage (Volts) |
|---|---|---|---|---|---|
| Stringer Beads | As req.d | SMA | 3/32" E7018 | 90-100 | 19-21 |
| | | | 1/8" | 130-160 | 20-22 |
| | | | 5/32" | 150-190 | 21-23 |
| | | | 3/16" | 220-260 | 22-24 |

* For vertical up and overhead positions, the smallest possible weave shall be used.

7. General welding procedure specification for low-hydrogen SMAW process:

    7.1 Preparation of base metal:
    The edges or surfaces of the work to be welded shall be prepared by flame cutting, plasma arc cutting, arc gouging, machining, shearing, grinding, or chipping and shall be cleaned of all oil and grease and excessive amounts of scale or rust prior to welding. Moisture shall be removed from the weld area before welding.

    7.2 Appearance of welding layers:
    The welding current and manner of depositing the weld metal shall be such that

    7.3 Cleaning of welds:
    Pneumatic or other mechanical tools may be used as an aid to clean slab or flux from the weld. Such mechanical cleaning is not considered peening. All slag and flux remaining on any weld bead shall be removed before laying down the next successive weld bead. All completed welds shall have the weld spatter removed and welds not ground shall be wirebrushed.

    7.4 Defects:
    All defects that appear on the surface of any weld bead shall be removed by chipping, grinding, or arch gouging, repaired and then given an examination. Should the defect appear before depositing a successive weld bead or before it is covered by subsequent welding, it shall be removed as indicated above, repaired and re-examined before any subsequent welding is done. Welding shall be inspected per the requirements of the AWS D1.1, Standard Welding Code, as well as the acceptable criteria presented in that Code (at a minimum).

    7.5 Welding electrodes:
    E7018 welding electrodes can normally be used directly out of newly opened, undamaged hermetically sealed cans. The use of Atom Arc 7018 is strongly encouraged. Store the electrodes in a dry place, preferably on cribbing and a few inches away from any walls to allow free circulation of air under and around the stack of electrodes. Do not open more cans than needed for a typical 10-hour shift. Electrodes should be stored in a heated oven or box at 200-300 degrees (F) for a period of 8 hours before use. Discard any electrodes that have become wet by contact with water in liquid form or which have been exposed to conditions of high humidity for a long period of time. Bake any electrodes from cans that have been damaged or broken open during shipment at 300-350 degrees (F) for a period of 12 hours before use.

    7.6 Welding procedure and performance qualifications:
    Welding procedure and performance qualifications shall be in accordance with the AWS D1.1, Structural Welding Code. Performance qualifications shall be available at the job site for review.

    7.7 Weather conditions:
    Welding shall not be performed when the surfaces to be welded are wet from rain, snow, or ice in the welding area, nor in periods of high wind, unless the welder and the work are properly protected. No welding shall be performed when the ambient temperature is below 0 degrees (F).

NOTE

1. STRUCTURAL DRAWINGS ISSUED IN A DESIGN DEVELOPMENT STAGE BEFORE RELEASE AND COORDINATION WITH THE COMPLETE ARCHITECTURAL, THEATER, AND MEP DRAWINGS, STRUCTURAL DRAWINGS DO NOT YET COVER ALL ADDITIONAL DESIGN AND DETAILS (INCLUDING STEEL, CONCRETE, MASONRY, AND/OR OTHER ITEMS) PROVIDED IN THESE FUTURE DOCUMENTS.

2. CONTRACTOR AND/OR ESTIMATOR TO PROVIDE ADEQUATE ALLOWANCE AND CONTINGENCIES TO COVER WORK AND MATERIALS FOR THESE FUTURE STRUCTURAL ITEMS. ALLOWANCE WILL BE CLEARLY INDICATED IN BID DOCUMENTS.

3. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS IN THIS ISSUE.

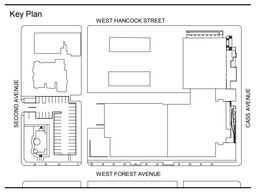
HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

GENERAL STRUCTURAL NOTES

Project Number: 3995-001-00

Drawn By: FA

Scale: 12" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S0.3

BIM 360://WSU Hilberry Gateway/S18 - WSU Hilberry Gateway-9904.rvt

Sheet Size: 30" x 42"
: Template Version

## STATEMENT OF SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE 2015 MICHIGAN (INTERNATIONAL) BUILDING CODE CHAPTER 17 AND AS MODIFIED HEREIN.
2. DESIGNATIONS:
   - SI SPECIAL INSPECTOR QUALIFIED WITH DEMONSTRATED COMPETENCE DOCUMENTED BY CERTIFICATIONS FROM RECOGNIZED AGENCIES SUCH AS AWS, ACI, MASONRY INSTITUTE OF MICHIGAN (MIM), ETC., AS SUBMITTED AND APPROVED BY THE BUILDING OFFICIAL. SPECIAL INSPECTOR MAY BE A FIRM WITH MULTIPLE SPECIALISTS AND A PROJECT MANAGER PROVIDING REPORTS.
   - TA TESTING AGENCY QUALIFIED TO TEST AND INSPECT MATERIALS AND ASSEMBLIES. TESTING AGENCY SHALL BE UNDER THE SUPERVISION OF THE SPECIAL INSPECTOR.
   - GE GEOTECHNICAL ENGINEER WHO PROVIDED THE ORIGINAL PROJECT GEOTECHNICAL SOILS INVESTIGATION REPORT.
   - SE SPECIALTY ENGINEER RESPONSIBLE FOR DESIGNING ASSEMBLIES SUCH AS PRECAST CONCRETE, STEEL JOISTS, COLD FORMED FRAMING ASSEMBLIES, ETC. SPECIALTY ENGINEER SHALL PROVIDE OBSERVATION OF FABRICATED AND INSTALLED ITEMS OF THEIR DESIGN IN ADDITION TO THE SPECIAL INSPECTION.
3. TA, GE AND SE SHALL SUBMIT RECORDS OF THE INSPECTION RESULTS TO THE SI. THE SI SHALL COMPILE AND SUBMIT INSPECTION RECORDS TO THE ARCHITECT/ENGINEER AND BUILDING OFFICIAL. RECORDS SHALL INCLUDE STATEMENTS OF TESTS, WHETHER INSTALLED/FABRICATED ITEM COMPLIES WITH CONTRACT DOCUMENTS, REMEDIAL WORK PERFORMED, RETESTS.
4. SI SHALL PROVIDE A DAILY REPORT OF ANY DISCREPANCIES FROM THE CONTRACT DOCUMENTS FOUND ON THE SAME DAY OF THE INSPECTION TO THE ENGINEER OF RECORD. FORMAL REPORTS OF COMPLIANCE CAN FOLLOW BY A MAXIMUM OF 2 WEEKS. SI SHALL PROVIDE AND SIGN FINAL REPORT WITH A SUMMARY OF ALL TESTS PERFORMED AND RESULTS TO THE ENGINEER OF RECORD AND BUILDING OFFICIAL, IN ACCORDANCE WITH SECTION 1704.2.4.
5. SI, TA & GE SHALL BE ENGAGED BY THE OWNER IN COMPLIANCE WITH THE MICHIGAN (INTERNATIONAL) BUILDING CODE.
6. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND THE GOVERNING BUILDING CODE. APPROVAL SHALL BE BASED UPON REVIEW OF FABRICATION AND QUALITY CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACTICES BY THE BUILDING...
7. REFER TO SPECIAL INSPECTION SCHEDULES AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL QUALITY CONTROL TESTING AND INSPECTIONS.

## SPECIAL INSPECTION REQUIREMENTS - SOILS AND FOUNDATIONS

| | INSPECTION TASK | INSPECTION FREQUENCY | | REFERENCED STANDARD | IBC REFERENCE | RESPONSIBLE AGENT |
|---|---|---|---|---|---|---|
| | | CONTINUOUS | PERIODIC | | | |
| 1. | VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | - | X | GEOTECHNICAL REPORT | 1705.6 | SI/GE |
| 2. | VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | - | X | GEOTECHNICAL REPORT | 1705.6 | SI/GE |
| 3. | PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. | - | X | GEOTECHNICAL REPORT | 1705.6 | SI/GE/TA |
| 4. | VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | X | - | GEOTECHNICAL REPORT | 1705.6 | SI/GE/TA |
| 5. | PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | - | X | GEOTECHNICAL REPORT | 1705.6 | SI/GE/TA |

## SPECIAL INSPECTION REQUIREMENTS - CONCRETE CONSTRUCTION

| | INSPECTION TASK | INSPECTION FREQUENCY | | REFERENCED STANDARD | IBC REFERENCE | RESPONSIBLE AGENT |
|---|---|---|---|---|---|---|
| | | CONTINUOUS | PERIODIC | | | |
| 1. | INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT. | - | X | ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 | 1908.4 | SI |
| 2. | REINFORCING BAR WELDING: | | | AWS D1.4<br>ACI 318: 26.6.4 | - | SI |
| | A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 | - | X | | | |
| | B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" | - | X | | | |
| | C. INSPECT ALL OTHER WELDS | X | - | | | |
| 3. | INSPECT ANCHORS CAST IN CONCRETE. | - | X | ACI 318: 17.8.2 | - | SI / TA |
| 4. | INSPECT ANCHORS POST-INSTALLED IN HARDENED MEMBERS. | | | | | SI / TA |
| | A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | X | | ACI 318: 17.8.2.4 | | |
| | B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A. | | X | ACI318: 17.8.2 | | |
| 5. | VERIFY USE OF REQUIRED DESIGN MIX. | - | X | ACI 318: Ch. 19, 26.4.3, 26.4.4 | 1904.1, 1904.2, 1908.2, 1908.3 | SI / TA |
| 6. | PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X | - | ASTM C172<br>ASTM C31<br>ACI 318: 26.4, 26.12 | 1908.10 | SI / TA |
| 7. | INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | X | - | ACI 318: 26.5 | 1908.6, 1908.7, 1908.8 | SI |
| 8. | VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | - | X | ACI 318: 26.5.3-26.5.5 | 1908.9 | SI |
| 9. | INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | - | X | ACI 318: 26.11.1.2(b) | - | SI / SE / TA |

## SPECIAL INSPECTION REQUIREMENTS - MASONRY: LEVEL B QUALITY ASSURANCE

**MINIMUM TESTS**

VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT.

VERIFICATION OF f'm AND f'aac IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.

**MINIMUM SPECIAL INSPECTION**

| | TASK | INSPECTION FREQUENCY | | REFERENCE CRITERIA | | | RESPONSIBLE AGENT |
|---|---|---|---|---|---|---|---|
| | | CONTINUOUS | PERIODIC | IBC SECTION | TMS 402<br>ACI 530<br>ASCE 5 | TMS 602<br>ACI 530.1<br>ASCE 6 | |
| 1. | VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS. | - | X | - | - | ART. 1.5 | SI |
| 2. | AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | | | SI |
| | A. PROPORTIONS OF SITE-PREPARED MORTAR. | - | X | - | - | ART. 2.1, 2.6A | |
| | B. CONSTRUCTION OF MORTAR JOINTS. | - | X | - | - | ART. 3.3B | |
| | C. LOCATION OF REINFORCEMENT AND CONNECTORS. | - | X | - | - | ART. 3.4, 3.6A | |
| | D. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY. | X<br>FOR FIRST 5,000 SQ.FT. OF ACC MASONRY | X<br>AFTER FIRST 5,000 SQ.FT. OF ACC MASONRY | - | - | ART. 2.1C | |
| 3. | PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | | | SI/TA |
| | A. GROUT SPACE. | - | X | - | - | ART. 3.2D, 3.2F | |
| | B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR RODS. | - | X | - | SEC. 6.1 | ART. 2.4, 3.4 | |
| | C. PLACEMENT OF REINFORCEMENT AND CONNECTORS | - | X | - | SEC. 6.1, 6.2.1, 6.2.6, 6.2.7 | ART. 3.2E, 3.4, 3.6A | |
| | D. PROPORTIONS OF SITE-PREPARED GROUT | - | X | - | - | ART. 2.6B, 2.4 G.1.b | |
| | E. CONSTRUCTION OF MORTAR JOINTS. | - | X | - | - | ART. 3.3B | |
| 4. | VERIFY DURING CONSTRUCTION: | | | | | | SI/TA |
| | A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. | - | X | - | - | ART. 3.3F | |
| | B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. | - | X | - | SEC. 1.2.1(e), 6.1.4.3, 6.2.1 | - | |
| | C. WELDING OF REINFORCEMENT. | X | - | - | SEC. 8.1.6.7.2, 9.3.3.4(c),11.3.3.4(b) | - | |
| | D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F). | - | X | - | - | ART. 1.8C, 1.8D | |
| | E. PLACEMENT OF GROUT AND COMPLIANCE. | X | - | - | - | ART. 3.5, 3.6C | |
| | F. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS. | X<br>FOR FIRST 5,000 SQ.FT. OF ACC MASONRY | X<br>AFTER FIRST 5,000 SQ.FT. OF ACC MASONRY | - | - | ART. 3.3 B.9, 3.3 F.1.b | |
| 5. | OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS. | - | X | - | - | ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4 | SI/TA |

IBC REFERENCE SECTION 1705.1 AND TABLE 3.1.2 TMS 402/ACI 530/ASCE 5

## SPECIAL INSPECTION REQUIREMENTS - STRUCTURAL STEEL

| | INSPECTION TASK | INSPECTION FREQUENCY | | REFERENCED STANDARD | IBC REFERENCE | RESPONSIBLE AGENT |
|---|---|---|---|---|---|---|
| | | CONTINUOUS | PERIODIC | | | |
| 1. | INSPECTION OF STEEL FABRICATED ITEMS SHALL BE PERFORMED ON PREMISES DURING FABRICATION. | - | X | AISC QUALITY CERTIFICATION | 1704.2.5 | SI |
| | A. EXCEPTIONS: SPECIAL INSPECTIONS DURING FABRICATION NOT REQUIRED WHERE THE FABRICATOR IS REGISTERED AND APPROVED IN ACCORANCE WITH SECTION 1704.2.5.1. | - | - | | | |
| 2. | SPECIAL INSPECTIONS AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. | X | X | AISC QUALITY CERTIFICATION | 1705.2.1 | SI |
| | A. SPECIAL INSPECTION OF RAILING SYSTEMS COMPOSED OF STRUCTURAL STEEL ELEMENTS SHALL BE LIMITED TO WELDING INSPECTION OF WELDS AT THE BASE OF CANTILEVERED RAIL POSTS. | - | X | AISC QUALITY CERTIFICATION | 1705.2.1 | SI |

QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION, APPLICABLE BUILDING CODE, PURCHASER, OWNER, OR ENGINEER OF RECORD.

| | INSPECTION TASK | INSPECTION FREQUENCY | | REFERENCED STANDARD | IBC REFERENCE | RESPONSIBLE AGENT |
|---|---|---|---|---|---|---|
| | | QC | QA | | | |
| | INSPECTION OF BOLTING | | | AISC 360, SECTION N5, TABLE N5.6-1 | 1705.2 | SI/TA |
| 1. | INSPECTION TASKS PRIOR TO BOLTING: | | | | | |
| | A. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS. | O | P | | | |
| | B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS. | O | O | | | |
| | C. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR... | O | O | | | |
| | D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL. | O | O | | | |
| | E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS. | O | O | | | |
| | F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED. | P | O | | | |
| | G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER... | O | O | | | |
| 2. | INSPECTION TASKS DURING BOLTING: | | | AISC 360, SECTION N5, TABLE N5.6-2 | 1705.2 | SI/TA |
| | A. FASTENER ASSMEBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED. | O | O | | | |
| | B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION. | O | O | | | |
| | C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTING FROM ROTATING. | O | O | | | |
| | D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES. | O | O | | | |
| 3. | INSPECTION TASKS AFTER BOLTING: | | | AISC 360, SECTION N5, TABLE N5.6-3 | 1705.2 | SI/TA |
| | A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS. | P | P | | | |

O: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P: PERFORM THESE TASKS FOR EACH BOLTED CONNECTION.

| | INSPECTION TASK | QC | QA | REFERENCED STANDARD | IBC REFERENCE | RESPONSIBLE AGENT |
|---|---|---|---|---|---|---|
| | INSPECTION OF WELDING: | | | AISC 360, SECTION N5, TABLE N5.4-1 | 1705.2 | SI/TA |
| 1. | INSPECTION TASKS PRIOR TO WELDING: | | | | | |
| | A. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE. | P | P | | | |
| | B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE. | P | P | | | |
| | C. MATERIAL IDENTIFICATION (TYPE/GRADE). | O | O | | | |
| | D. WELDER IDENTIFICATION SYSTEM. | O | O | | | |
| | E. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):<br>- JOINT PREPARATION<br>- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)<br>- CLEANLINESS (CONDITION OF STEEL SURFACES)<br>- TACKING (TACK WELD QUALITY AND LOCATION)<br>- BACKING TYPE AND FIT (IF AVAILABLE) | O | O | | | |
| | F. CONFIGURATION OF FINISH AND ACCESS HOLES. | O | O | | | |
| | G. FIT-UP OF FILLET WELDS:<br>- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)<br>- CLEANLINESS (CONDITION OF STEEL SURFACES)<br>- TACKING (TACK WELD QUALITY AND LOCATION) | O | O | | | |
| | H. CHECK WELDING EQUIPMENT. | O | - | | | |
| 2. | INSPECTION TASKS DURING WELDING: | | | AISC 360, SECTION N5, TABLE N5.4-2 | 1705.2 | SI/TA |
| | A. USE OF QUALIFIED WELDERS. | O | O | | | |
| | B. CONTROL AND HANDLING OF WELDING CONSUMABLES:<br>- PACKAGING<br>- EXPOSURE CONTROL | O | O | | | |
| | C. NO WELDING OVER CRACKED TACK WELDS. | O | O | | | |
| | D. ENVIRONMENTAL CONDITIONS:<br>- WIND SPEED WITHIN LIMITS<br>- PRECIPITATION AND TEMPERATURE | | | | | |
| | E. WPS FOLLOWED:<br>- SETTINGS ON WELDING EQUIPMENT<br>- TRAVEL SPEED<br>- SELECTED WELDING MATERIALS<br>- SHIELDING GAS TYPE/FLOW RATE<br>- PREHEAT APPLIED<br>- INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)<br>- PROPER POSITION (F, V, H, OH) | O | O | | | |
| | F. WELDING TECHNIQUES:<br>- INTERPASS AND FINAL CLEANING<br>- EACH PASS WITHIN PROFILE LIMITATIONS<br>- EACH PASS MEETS QUALITY REQUIREMENTS | O | O | | | |
| 3. | INSPECTION TASKS AFTER WELDING: | | | AISC 360, SECTION N5, TABLE N5.4-3 | 1705.2 | SI/TA |
| | A. WELDS CLEANED. | O | O | | | |
| | B. SIZE, LENGTH AND LOCATION OF WELDS. | P | P | | | |
| | C. WELDS MEET VISUAL ACCEPTANCE CRITERIA:<br>- CRACK PROHIBITION.<br>- WELD/BASE-METAL FUSION.<br>- CRATER CROSS SECTION.<br>- WELD PROFILES:<br>- WELD SIZE.<br>- UNDERCUT.<br>- POROSITY. | P | P | | | |
| | D. ARC STRIKES. | P | P | | | |
| | E. K-AREA. | P | P | | | |
| | F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED). | P | P | | | |
| | G. REPAIR ACTIVITY. | P | P | | | |
| | H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER. | P | P | | | |

O: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P: PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.

O: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P: PERFORM THESE TASKS FOR EACH STEEL ELEMENT.

## SPECIAL INSPECTION REQUIREMENTS - POST-INSTALLED ANCHORS

| | INSPECTION TASK | REFERENCED STANDARD | IBC REFERENCE | RESPONSIBLE AGENT |
|---|---|---|---|---|
| 1. | INSPECT AND TEST ALL POST-INSTALLED MECHANICAL AND ADHESIVE ANCHORS MANUFACTURER'S ICC-ESR EVALUATION REPORT FOR EACH ANCHOR. | ICC-ESR FOR EACH ANCHOR | 1705.1.1 | SI / TA |

NOTE

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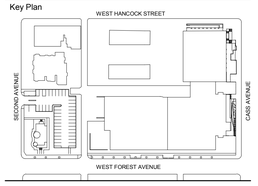
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

SPECIAL INSPECTION REQUIREMENTS

Project Number: 3995-001-00

Drawn By: FA

Scale: 12" = 1'-0"

Seal:

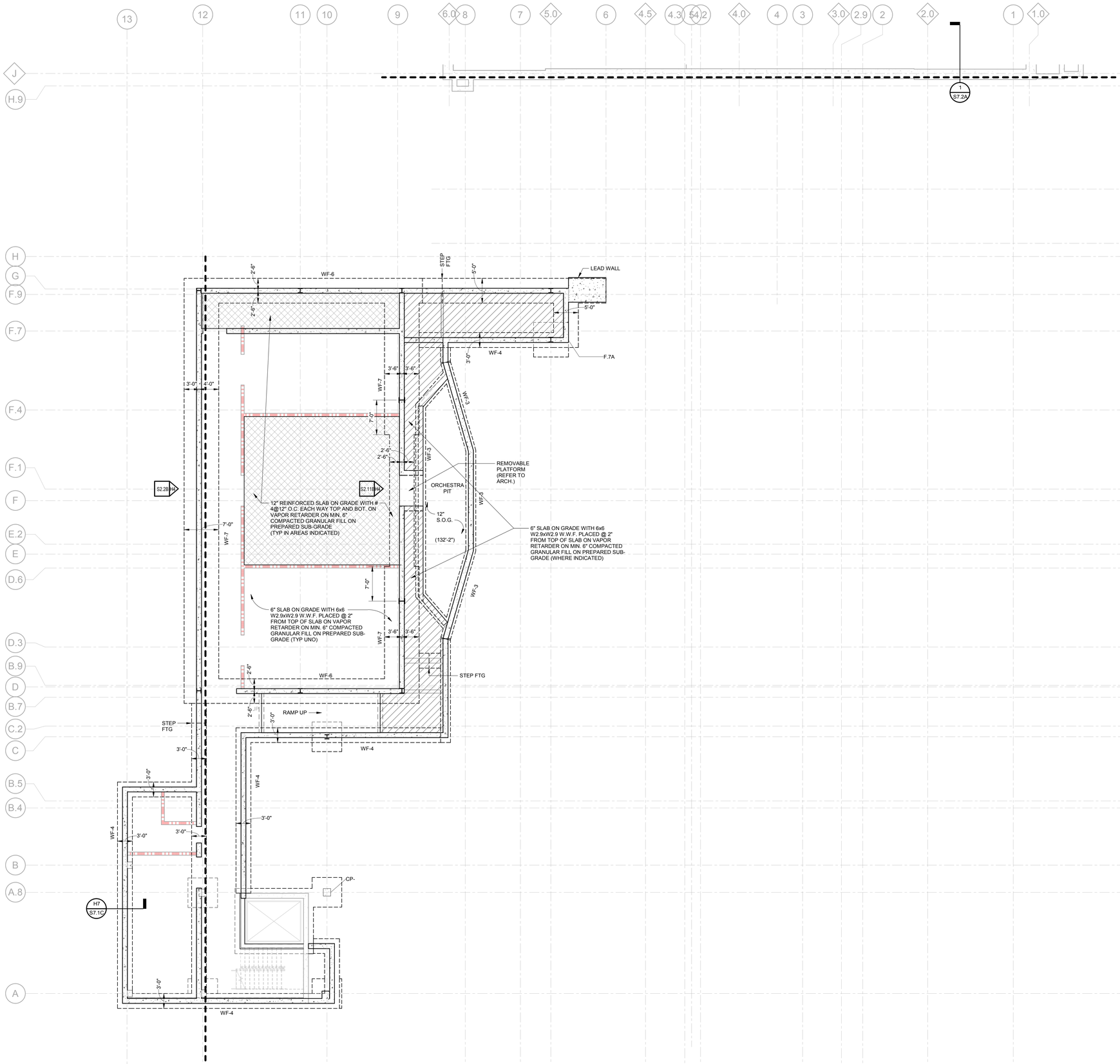
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S0.4

BIM 360:/WSU Hilberry Gateway/S18 -WSU Hilberry Gateway-9604.rvt




## FOUNDATION PLAN LOWER LEVEL - SECTOR B

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFERENCE FINISHED FLOOR ELEVATION = 136'-8"
   BASED ON U.S.G.S. GEODETIC ELEVATION = XXX.XX'
2. TOP OF FOOTING ELEVATION =136"-0" UNLESS NOTED THUS XX'-XX"]
3. TOP OF PIER ELEVATION = XX'-XX" UNLESS NOTED THUS (136'-0")
4. FOOTING ARE DESIGNED TO BEAR ON UNDISTURBED NATURAL SOILS WITH A MINIMUM NET ALLOWABLE BEARING CAPACITY OF XXXX PSF.
5. CONTRACTOR SHALL COORDINATE ALL MASONRY DOWEL SIZES AND SPACING TO BE CAST INTO CONCRETE WITH MASONRY REINFORCING SHOP DRAWINGS.
6. REFER TO CIVIL/SITE DRAWINGS FOR PROPOSED GRADE ELEVATIONS AROUND THE PERIMETER OF THE BUILDING.
7. REFER TO MEP DRAWINGS FOR ALL PIPE AND CONDUIT SIZES AND LOCATIONS PASSING THROUGH AND/OR UNDER FOUNDATIONS.
8. DESIGNATIONS:

   B-XX APPROXIMATE LOCATION OF SOIL BORINGS. REFER TO GEOTECHNICAL REPORT NO. XXXX PREPARED BY XXX (DATED XX-XX-XXXX).

   F-x FOOTING - REFER TO SCHEDULE
   GB-x GRADE BEAM - REFER TO SCHEDULE
   CP-x CONCRETE PIER/PILASTER - REFER TO SCHEDULE
   CW-x CONCRETE WALL - REFER TO SCHEDULE
   MW-x MASONRY WALL - REFER TO SCHEDULE
   SW-x SHEAR WALL - REFER TO SCHEDULE

9. REFERENCE DRAWINGS:

   S0.2, S0.3 GENERAL STRUCTURAL NOTES
   S0.4 SPECIAL INSPECTION SCHEDULES
   Sxxx CONCRETE SCHEDULES AND TYPICAL DETAILS
   Sxxx MASONRY SCHEDULES AND TYPICAL DETAILS

NOTE

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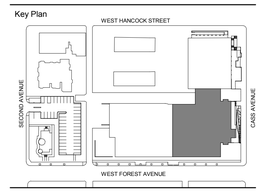
Key Plan

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| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## FOUNDATION PLAN LOWER LEVEL - SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# S1.0B


Sheet Size: 30" x 42" - Template Version

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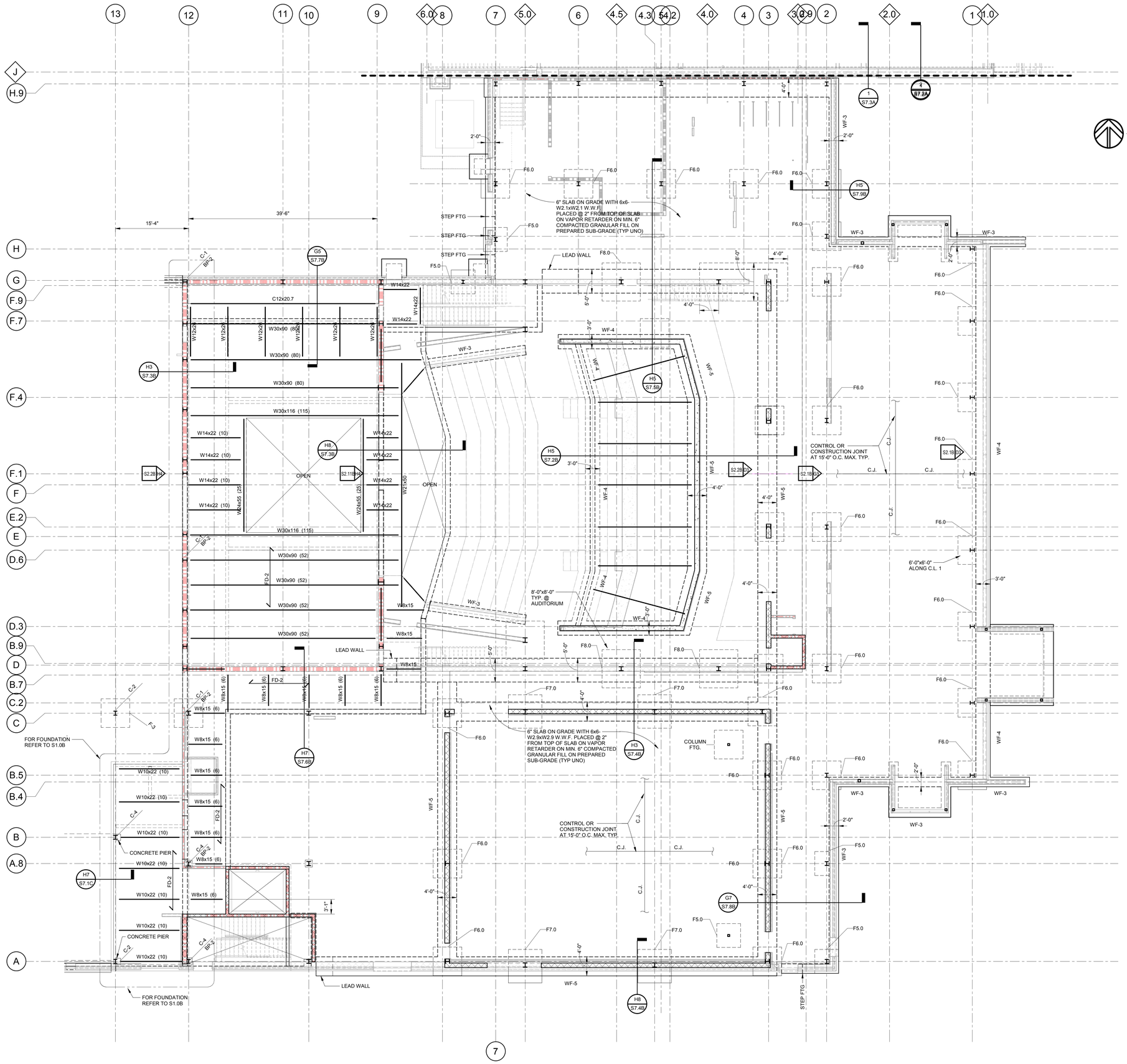


## FOUNDATION AND FIRST FLOOR FRAMING PLAN - SECTOR B

1/8" = 1'-0"

FOUNDATION AND FIRST FLOOR FRAMIN PLAN NOTES:

1. REFERENCE FINISHED FLOOR ELEVATION = 148'-8" BASED ON U.S.G.S. GEODETIC ELEVATION = XXX.XX'
2. TOP OF FOOTING ELEVATION = XX'-XX" UNLESS NOTED THUS [XX'-XX"]
3. TOP OF STEEL REFERENCE ELEVATION (DECK BEARING ELEVATION) = 148'-3" UNLESS NOTED THUS [±X'-XX"]
4. TOP OF PIER ELEVATION = XX'-XX" UNLESS NOTED THUS (XX'-XX")
5. FOOTING ARE DESIGNED TO BEAR ON UNDISTURBED NATURAL SOILS WITH A MINIMUM NET ALLOWABLE BEARING CAPACITY OF XXXX PSF.
6. CONTRACTOR SHALL COORDINATE ALL MASONRY DOWEL SIZES AND SPACING TO BE CAST INTO CONCRETE WITH MASONRY REINFORCING SHOP DRAWINGS.
7. REFER TO CIVIL/SITE DRAWINGS FOR PROPOSED GRADE ELEVATIONS AROUND THE PERIMETER OF THE BUILDING.
8. REFER TO MEP DRAWINGS FOR ALL PIPE AND CONDUIT SIZES AND LOCATIONS PASSING THROUGH AND/OR UNDER FOUNDATIONS.
9. DESIGNATIONS:

   B-xx APPROXIMATE LOCATION OF SOIL BORINGS. REFER TO GEOTECHNICAL REPORT NO. XXXX PREPARED BY XXX (DATED XX-XX-XXXX).

   F-x FOOTING - REFER TO SCHEDULE
   GB-x GRADE BEAM - REFER TO SCHEDULE
   CP-x CONCRETE PIER/PILASTER - REFER TO SCHEDULE
   CW-x CONCRETE WALL - REFER TO SCHEDULE
   MW-x MASONRY WALL - REFER TO SCHEDULE
   SW-x SHEAR WALL - REFER TO SCHEDULE

   FD-2: 4 1/2" REGULAR WEIGHT CONCRETE ON 3"-20 GAGE MIN. GALVANIZED COMPOSITE STEEL DECK (TOTAL 7 1/2" SLAB THICKNESS) MIN. 3 SPAN CONTINUOUS.
   REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. PLACED 1" FROM TOP OF SLAB.
   REFER TO STEEL DECK GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
   MINIMUM DECK SECTION PROPERTIES FOR DECK BASED ON FY = 40 KSI:
   DESIGN THICKNESS = X" (UNCOATED)
   I (POSITIVE) = 0.920 IN 4/FT.
   I (NEGATIVE) = 0.919 IN 4/FT.
   S (POSITIVE) = 0.534 IN 3/FT.
   S (NEGATIVE) = 0.551 IN 3/FT.

   BP-x BEARING PLATE, REFER TO SCHEDULE

   L-x LINTEL, REFER TO SCHEDULE

10. VERIFY SIZE AND LOCATION OF OPENINGS WITH ARCHITECTURAL AND MEP DRAWINGS.
11. REFERENCE DRAWINGS:

   S0.2, S0.3 GENERAL STRUCTURAL NOTES
   S0.4 SPECIAL INSPECTION SCHEDULES
   Sxxx LOAD MAPS
   Sxxx COLUMN SCHEDULE
   Sxxx TYPICAL DETAILS

NOTE

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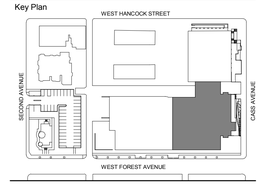
Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# FOUNDATION AND FIRST FLOOR FRAMING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# S1.1B


Sheet Size: 30" x 42" - Template Version

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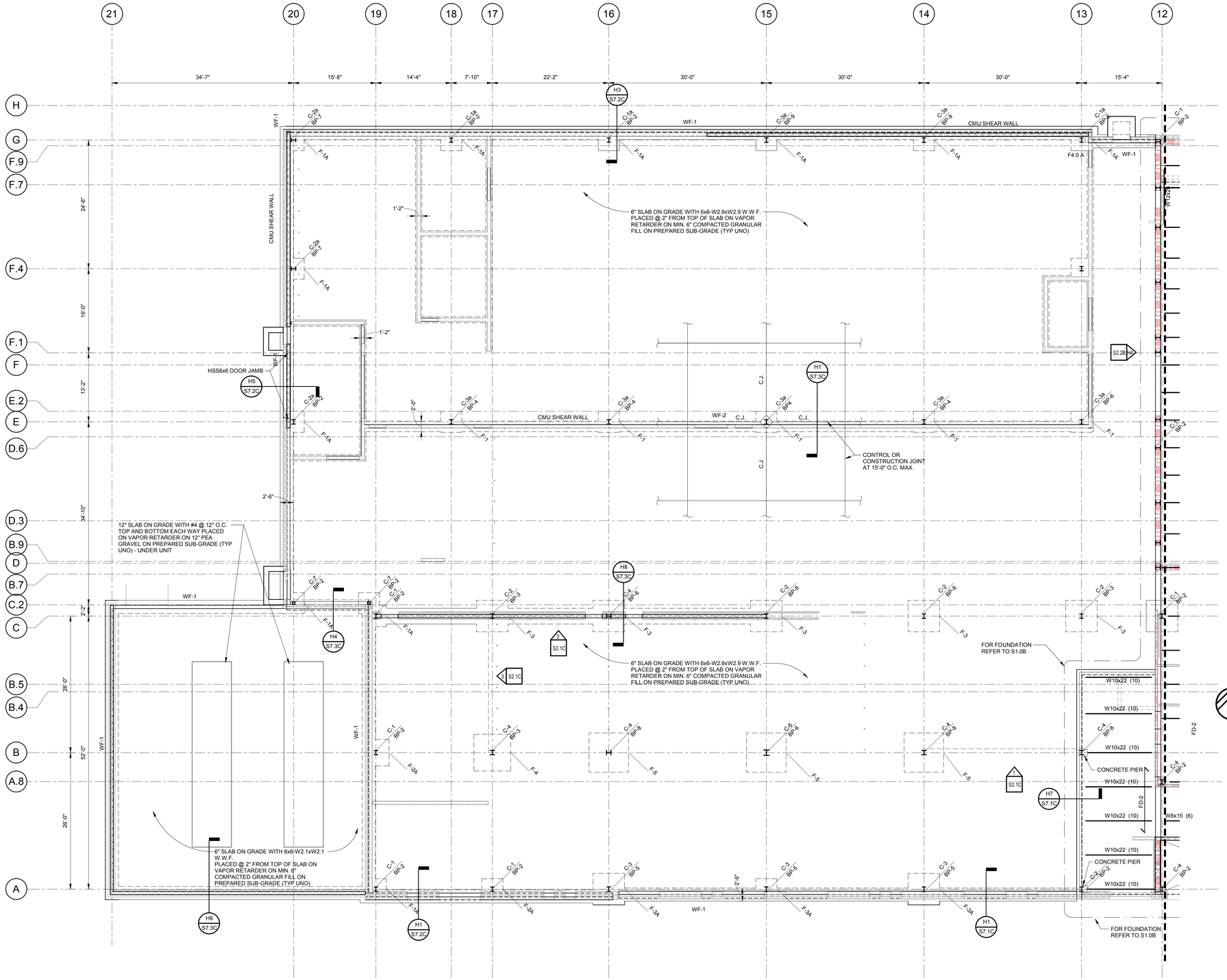


## FOUNDATION AND FIRST FLOOR FRAMING PLAN - SECTOR C

1/8" = 1'-0"

FOUNDATION AND FIRST FLOOR FRAMIN PLAN NOTES:

1. REFERENCE FINISHED FLOOR ELEVATION = 148'-8"
2. TOP OF FOOTING ELEVATION = 146'-8" UNLESS NOTED THUS [XX'-XX"]
3. TOP OF STEEL REFERENCE ELEVATION (DECK BEARING ELEVATION) = 148'-3" UNLESS NOTED THUS [±X'-XX"]
4. TOP OF PIER ELEVATION = XX'-XX" UNLESS NOTED THUS (XX'-XX")
5. FOOTING ARE DESIGNED TO BEAR ON UNDISTURBED NATURAL SOILS WITH A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 5000 PSF.
6. CONTRACTOR SHALL COORDINATE ALL MASONRY DOWEL SIZES AND SPACING TO BE CAST INTO CONCRETE WITH MASONRY REINFORCING SHOP DRAWINGS.
7. REFER TO CIVIL/SITE DRAWINGS FOR PROPOSED GRADE ELEVATIONS AROUND THE PERIMETER OF THE BUILDING.
8. REFER TO MEP DRAWINGS FOR ALL PIPE AND CONDUIT SIZES AND LOCATIONS PASSING THROUGH AND/OR UNDER FOUNDATIONS.
9. DESIGNATIONS:

   B-xx.x APPROXIMATE LOCATION OF SOIL BORINGS. REFER TO GEOTECHNICAL REPORT NO. XXXX PREPARED BY XXX (DATED XX-XX-XXXX).

   F-x FOOTING - REFER TO SCHEDULE
   GB-x GRADE BEAM - REFER TO SCHEDULE
   CP-x CONCRETE PIER/PILASTER - REFER TO SCHEDULE
   CW-x CONCRETE WALL - REFER TO SCHEDULE
   SW-x SHEAR WALL - REFER TO SCHEDULE

   BP-x BEARING PLATE, REFER TO SCHEDULE

   FD-1 3 1/2" NORMAL WEIGHT CONCRETE ON 2"-20GA. MIN. GALVANIZED COMPOSITE STEEL DECK (5 1/2" TOTAL THICKNESS) REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. HELD ON CHAIRS 1" FROM TOP OF SLAB.

   FD-2: 4 1/2" REGULAR WEIGHT CONCRETE ON 3"-20 GAGE MIN. GALVANIZED COMPOSITE STEEL DECK (TOTAL 7 1/2" SLAB THICKNESS) MIN. 3 SPAN CONTINUOUS.
   REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. PLACED 1" FROM TOP OF SLAB. REFER TO STEEL DECK GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
   MINIMUM DECK SECTION PROPERTIES FOR DECK BASED ON FY = 40 KSI:
   DESIGN THICKNESS = X" (UNCOATED)
   I (POSITIVE) = 0.920 IN 4/FT.
   I (NEGATIVE) = 0.919 IN 4/FT.
   S (POSITIVE) = 0.534 IN 3/FT.
   S (NEGATIVE) = 0.551 IN 3/FT.

10. VERIFY SIZE AND LOCATION OF OPENINGS WITH ARCHITECTURAL AND MEP DRAWINGS.
11. REFERENCE DRAWINGS:

   S0.2, S0.3 GENERAL STRUCTURAL NOTES
   S0.4 SPECIAL INSPECTION SCHEDULES
   S5.0 COLUMN SCHEDULE

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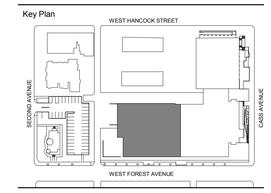


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| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# FOUNDATION AND FIRST FLOOR FRAMING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

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Sheet Size: 30" x 42" - Template Version

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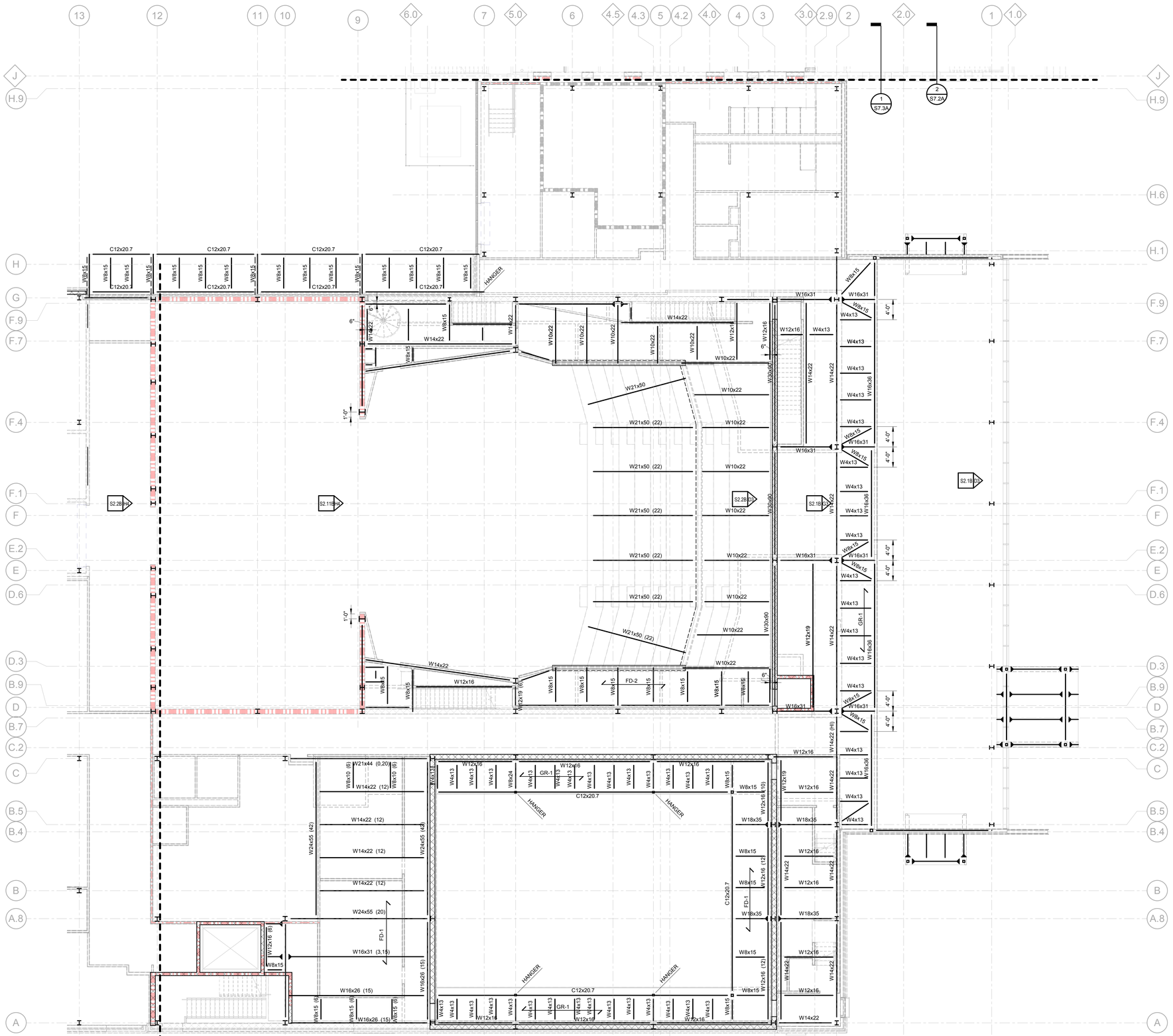


## UPPER LEVEL (ST) FRAMING PLAN - SECTOR B

1/8" = 1'-0"

PLAN NOTES

1. DESIGNATIONS

FD-1: 3 1/2" LIGHT WEIGHT CONCRETE ON 2"-20 GAGE MIN. GALVANIZED STEEL FORM DECK (TOTAL 5 1/2" SLAB THICKNESS) MIN. 3 SPAN CONTINUOUS, REINFORCED WITH 6x6-W2.1xW2.1W.W.F. PLACED MID-DEPTH OF SLAB. REFER TO STEEL DECK GENERAL NOTES FOR ADDITIONAL REQUIREMENTS. MINIMUM DECK SECTION PROPERTIES FOR DECK BASED ON FY = 40 KSI: DESIGN THICKNESS = X" (UNCOATED)
I (POSITIVE) = 0.409 IN 4/FT.
I (NEGATIVE) = 0.406 IN 4/FT.
S (POSITIVE) = 0.341 IN 3/FT.
S (NEGATIVE) = 0.346 IN 3/FT.

2. REFERENCE DRAWINGS
S0.2, S0.3 GENERAL STRUCTURAL NOTES
S0.4 SPECIAL INSPECTION REQUIREMENTS

NOTE

1. STRUCTURAL DRAWINGS ISSUED IN A DESIGN DEVELOPMENT STAGE BEFORE RELEASE AND COORDINATION WITH THE COMPLETE ARCHITECTURAL, THEATER, AND MEP DRAWINGS. STRUCTURAL DRAWINGS DO NOT YET COVER ALL ADDITIONAL DESIGN AND DETAILS (INCLUDING STEEL, CONCRETE, MASONRY, AND/OR OTHER ITEMS) PROVIDED IN THESE FUTURE DOCUMENTS.

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3. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS IN THIS ISSUE.


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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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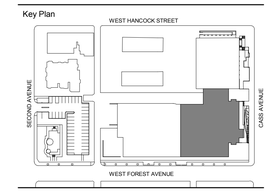
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# UPPER LEVEL(ST) & BACKROW FRAMING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# S1.2B



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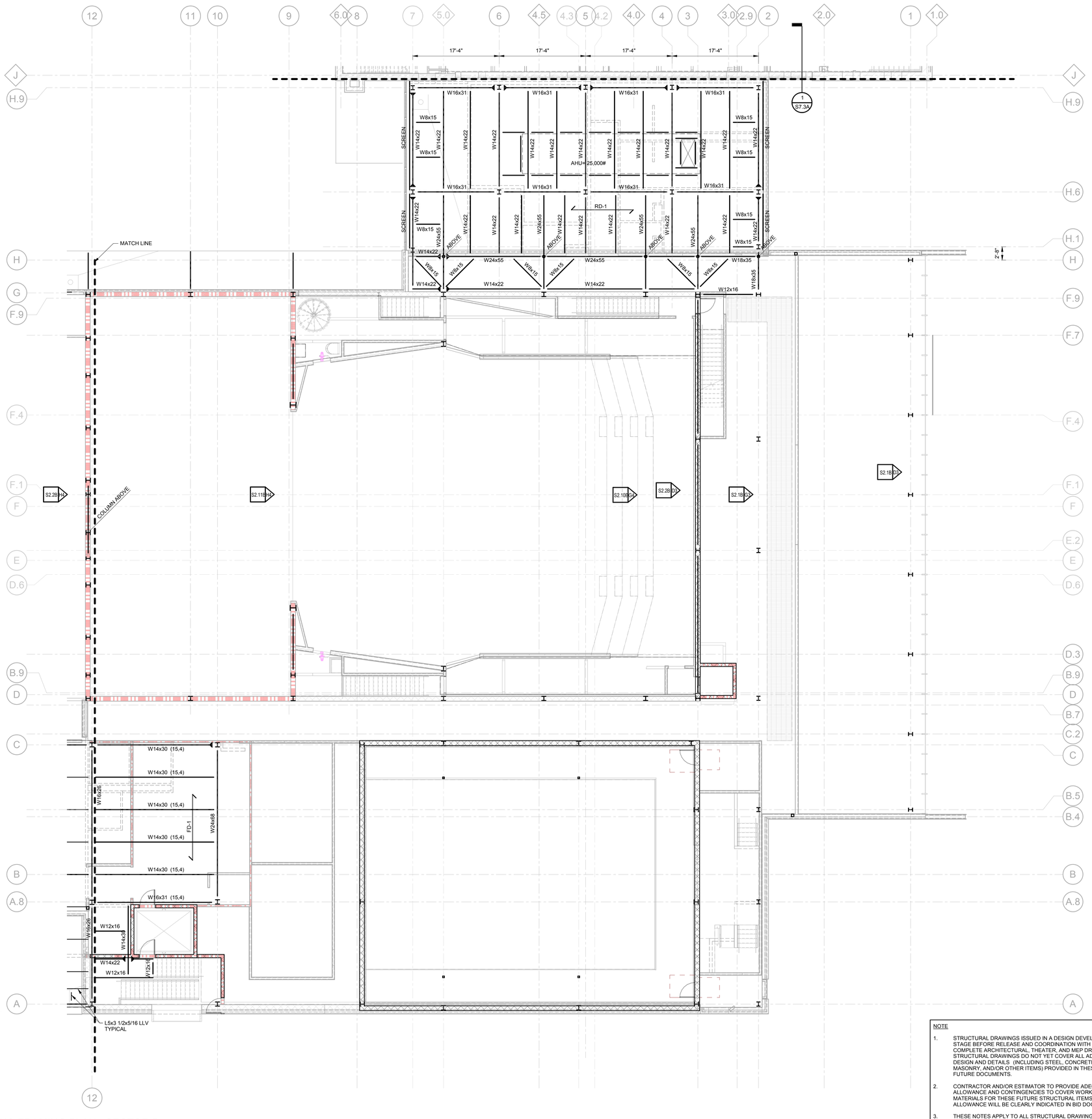


PLAN NOTES

1. DESIGNATIONS

RD-1 1 1/2"-20GA. GALVANIZED WIDE RIB STEEL ROOF DECK (MIN. 3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE.

FD-1: 3 1/2" LIGHT WEIGHT CONCRETE ON 2"-20 GAGE MIN. GALVANIZED STEEL FORM DECK (TOTAL 5 12" SLAB THICKNESS) MIN. 3 SPAN CONTINUOUS, REINFORCED WITH 6x6-W2.1xW2.1W.W.F. PLACED MID-DEPTH OF SLAB. REFER TO STEEL DECK GENERAL NOTES FOR ADDITIONAL REQUIREMENTS. MINIMUM DECK SECTION PROPERTIES FOR DECK BASED ON FY = 40 KSI: DESIGN THICKNESS = X" (UNCOATED)
I (POSITIVE) = 0.409 IN 4/FT.
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S (POSITIVE) = 0.341 IN 3/FT.
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2. REFERENCE DRAWINGS
S0.2, S0.3 GENERAL STRUCTURAL NOTES
S0.4 SPECIAL INSPECTION REQUIREMENTS

## LEVEL TWO FRAMING PLAN - SECTOR B

1/8" = 1'-0"

NOTE

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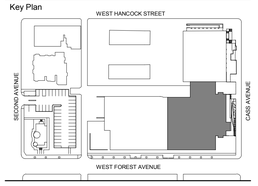


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| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO & LINK ROOF FRAMING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# S1.3B

Sheet Size: 30" x 42"
Template Version

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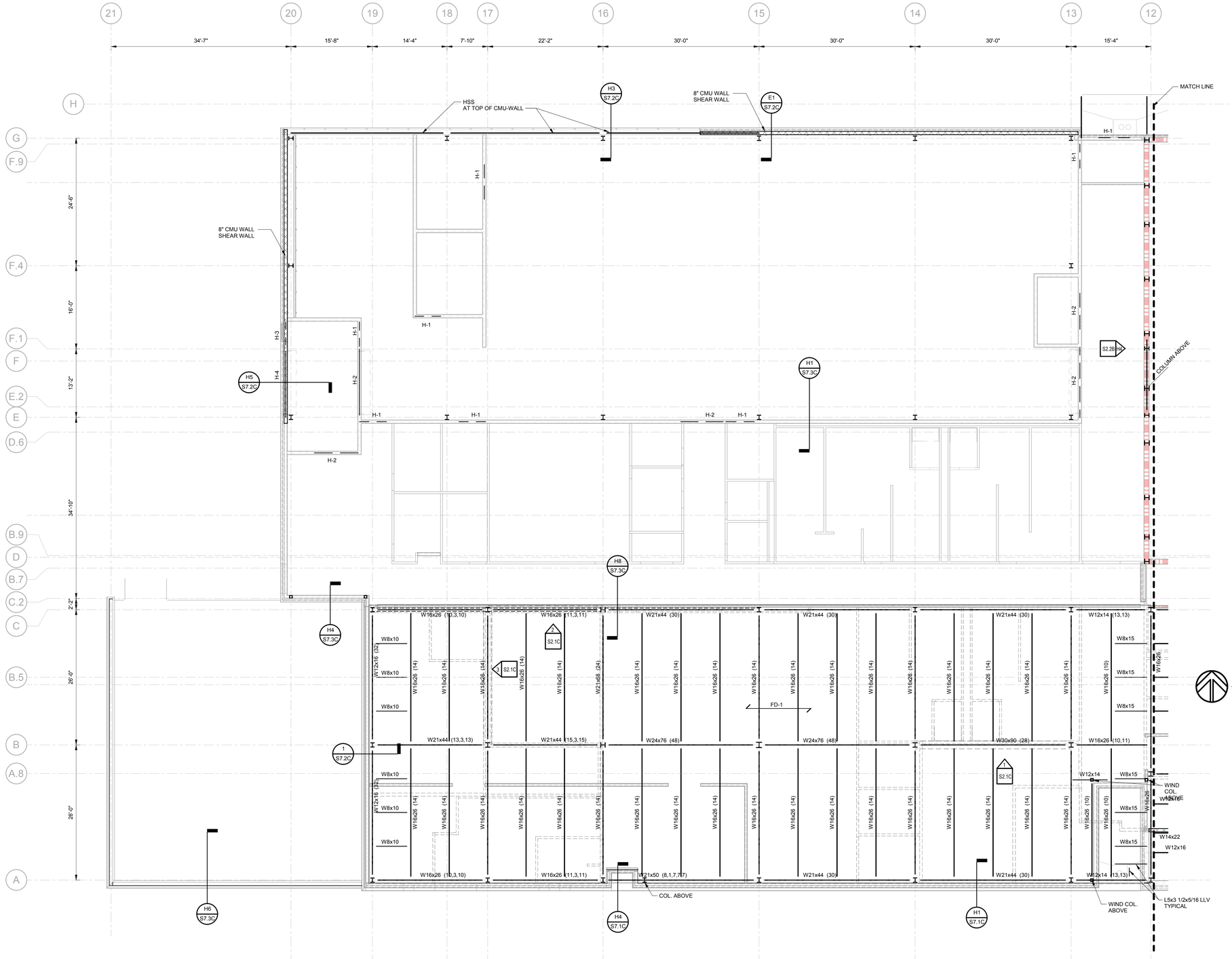


## LEVEL TWO FRAMING PLAN - SECTOR C

1/8" = 1'-0"

PLAN NOTES

1. DESIGNATIONS

   FD-1 3 1/2" NORMAL WEIGHT CONCRETE ON 2".20GA. MIN. GALVANIZED COMPOSITE STEEL DECK (5 1/2" TOTAL THICKNESS) REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. HELD ON CHAIRS 1" FROM TOP OF SLAB.

2. COORDINATE SIZES AND LOCATION OF ALL ROOF OPENINGS WITH ARCHITECTURAL AND MEP DRAWINGS. VERIFY SIZES, WEIGHTS, AND LOCATIONS OF ROOF TOP MECHANICAL EQUIPMENT WITH ARCHITECTURAL AND MEP DRAWINGS. REPORT ANY DISCREPANCIES WITH RESPECT TO SIZE AND WEIGHTS SHOWN ON THESE DRAWINGS TO THE ARCHITECT AND ENGINEER.

3. FRAMING FOR ALL ROOF DRAINS AND OVERFLOW DRAINS SHALL BE L5x3 1/2x5/16 LLV TYPICAL, ALL SIDES OF SUPPORTED EDGE, UNLESS NOTED OTHERWISE.

4. REFERENCE DRAWINGS
   S0.2, S0.3 GENERAL STRUCTURAL NOTES
   S0.4 SPECIAL INSPECTION REQUIREMENTS

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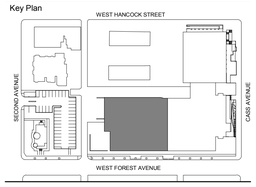
Key Plan

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| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO FRAMING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# S1.3C


Sheet Size: 30" x 42" - Template Version
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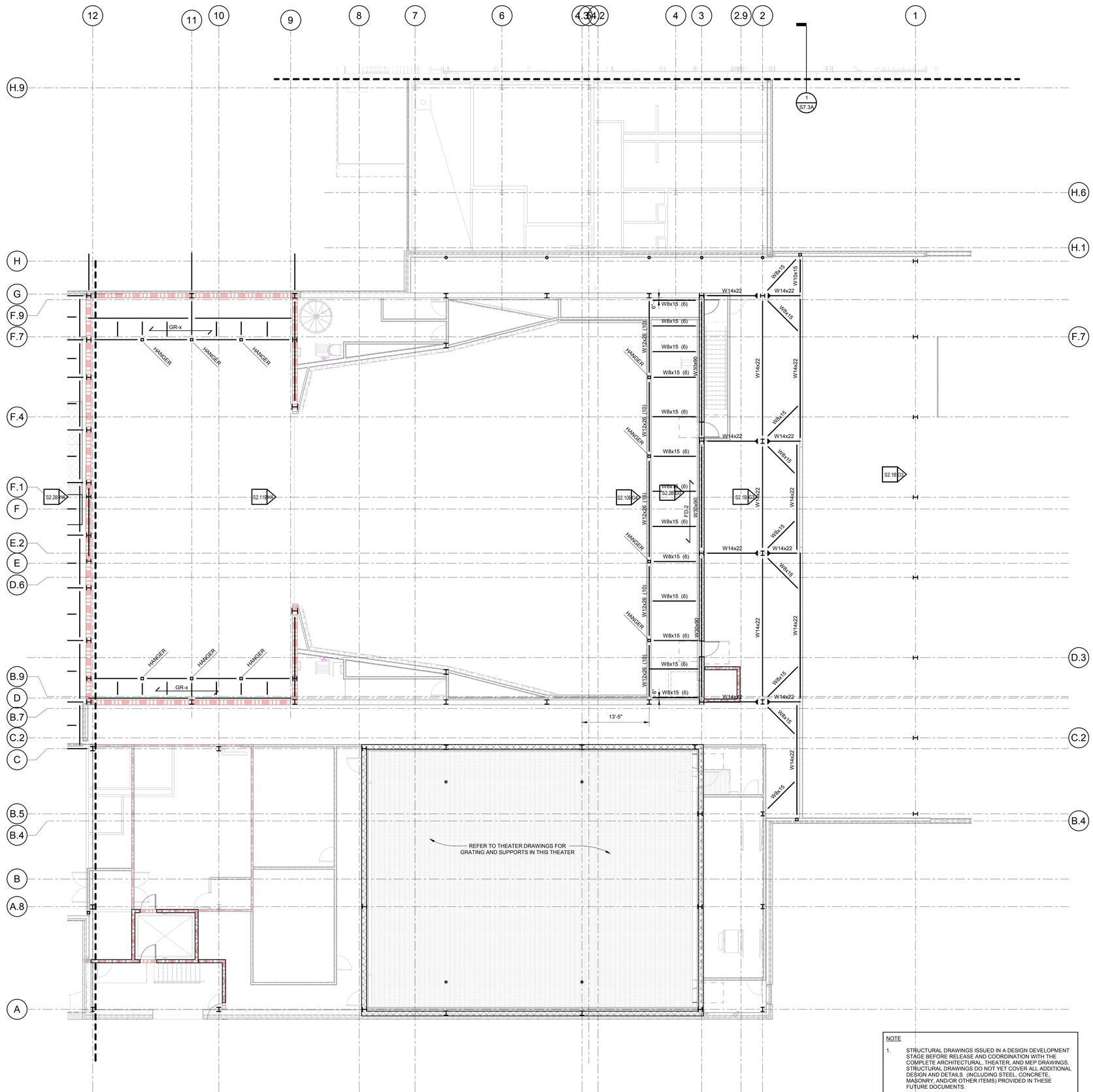


CONTROL ROOM LEVEL FRAMING PLAN

1/8" = 1'-0"

NOTE

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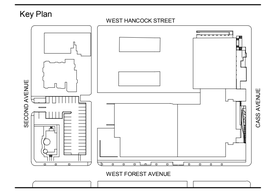


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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## CONTROL ROOM LEVEL & TECH GALLERY FRAMING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

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Signature:

Drawing No:

S1.4B

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- Template Version

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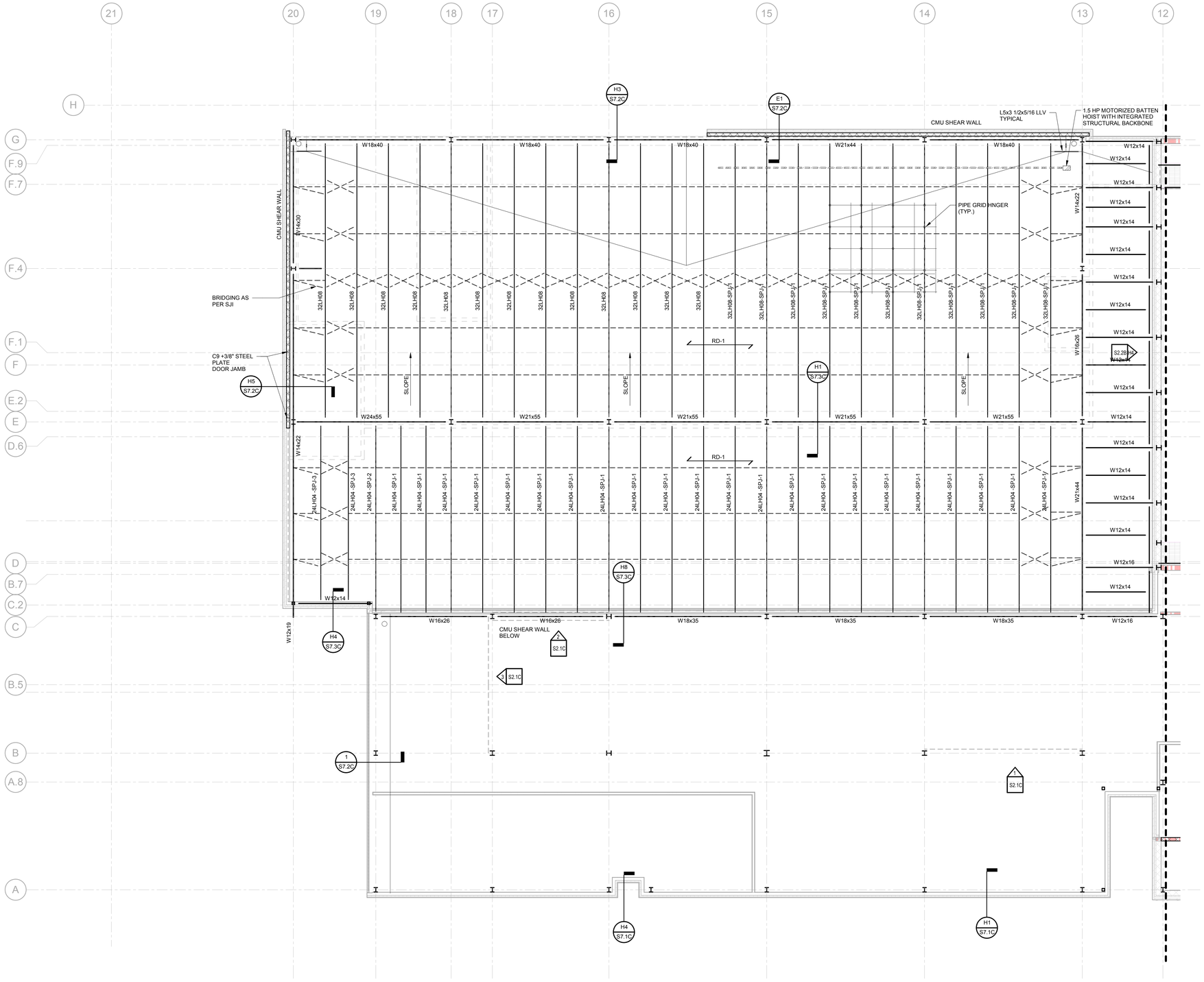


## SHOP ROOF FRAMING PLAN - SECTOR C

1/8" = 1'-0"

PLAN NOTES

1. DESIGNATIONS

   RD-1 1 1/2"-20GA. GALVANIZED WIDE RIB STEEL ROOF DECK (MIN. 3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE

2. ALL JOIST SEATS FOR K-SERIES JOISTS SHALL BE 2 1/2" DEEP, UNLESS NOTED OTHERWISE.
   ALL JOISTS SEATS FOR LH-SERIES JOISTS SHALL BE 5" DEEP, UNLESS NOTED OTHERWISE.
   ALL JOIST GIRDER SEATS SHALL BE 7" DEEP, UNLESS NOTED OTHERWISE.

3. ALL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF XX PSF, IN ADDITION TO OTHER LOAD CASES AND ANY OTHER NON-UNIFORM LOADS INDICATED ON THE DRAWINGS. ALL BRIDGING AND UPLIFT BRIDGING SHALL BE PER SJI REQUIREMENTS.

4. PROVIDE 3/4" CAP PLATE ON COLUMN FOR JOIST BEARING AS REQUIRED.

5. PROVIDE 1/4" CAP PLATE ON COLUMN FOR DECK BEARING AS REQUIRED.

6. COORDINATE SIZES AND LOCATION OF ALL ROOF OPENINGS WITH ARCHITECTURAL AND MEP DRAWINGS. VERIFY SIZES, WEIGHTS, AND LOCATIONS OF ROOF TOP MECHANICAL EQUIPMENT WITH ARCHITECTURAL AND MEP DRAWINGS. REPORT ANY DISCREPANCIES WITH RESPECT TO SIZE AND WEIGHTS SHOWN ON THESE DRAWINGS TO THE ARCHITECT AND ENGINEER.

7. FRAMING FOR ALL ROOF DRAINS AND OVERFLOW DRAINS SHALL BE L5x3 1/2x5/16 LLV TYPICAL, ALL SIDES OF SUPPORTED EDGE, UNLESS NOTED OTHERWISE.

8. REFERENCE DRAWINGS
   S0.2, S0.3 GENERAL STRUCTURAL NOTES
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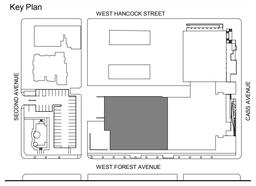


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| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# SHOP ROOF FRAMING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# S1.6C

Sheet Size: 30" x 42" - Template Version
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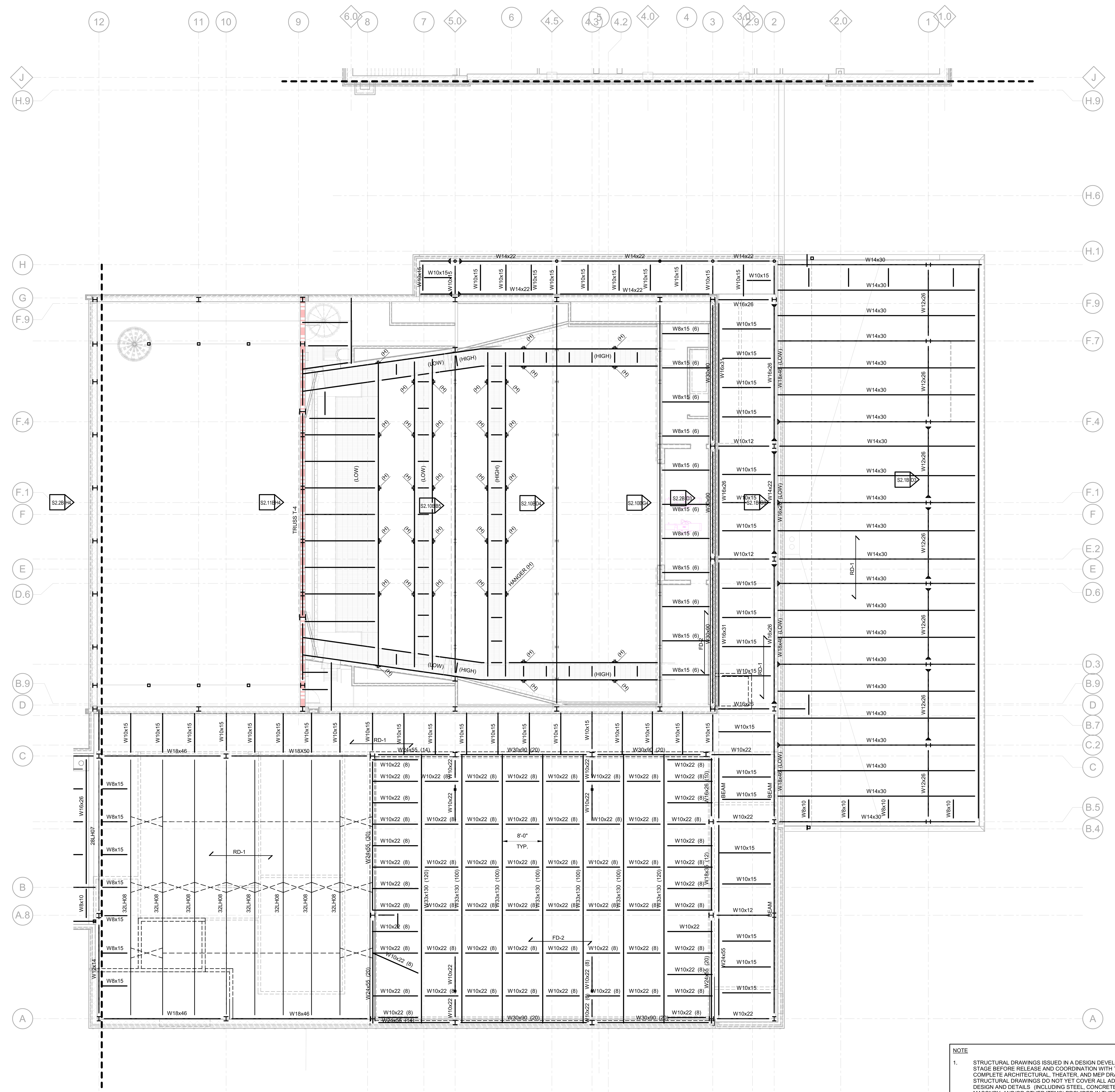


MAIN ROOF FRAMING PLAN - SECTOR B
1/8" = 1'-0"

PLAN NOTES

1. DESIGNATIONS

FD-1 3 1/2" LIGHT WEIGHT CONCRETE ON 2"-20GA. MIN. GALVANIZED COMPOSITE STEEL DECK ( 5 1/2" TOTAL THICKNESS) REINFORCED WITH 6X6-W2.1XW2.1 W.W.F HELD ON CHAIRS 1" FROM TOP OF SLAB.

FD-2 4 1/2" NORMAL WEIGHT CONCRETE ON 3"-20GA. MIN. GALVANIZED COMPOSITE STEEL DECK (7 1/2" TOTAL THICKNESS) REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. HELD ON CHAIRS 1" FROM TOP OF SLAB.

RD-1 1 1/2"-20GA. GALVANIZED WIDE RIB STEEL ROOF DECK (MIN. 3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE

2. REFERENCE DRAWINGS

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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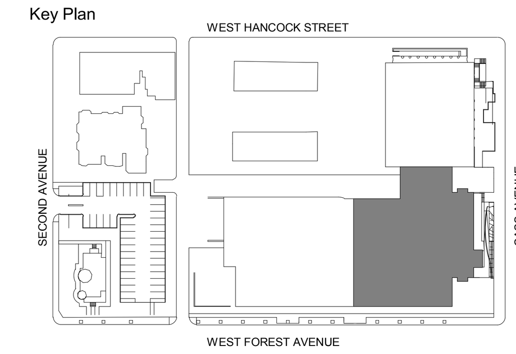
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## MAIN ROOF, LOBBY ROOF, AND CATWALK FRAMING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

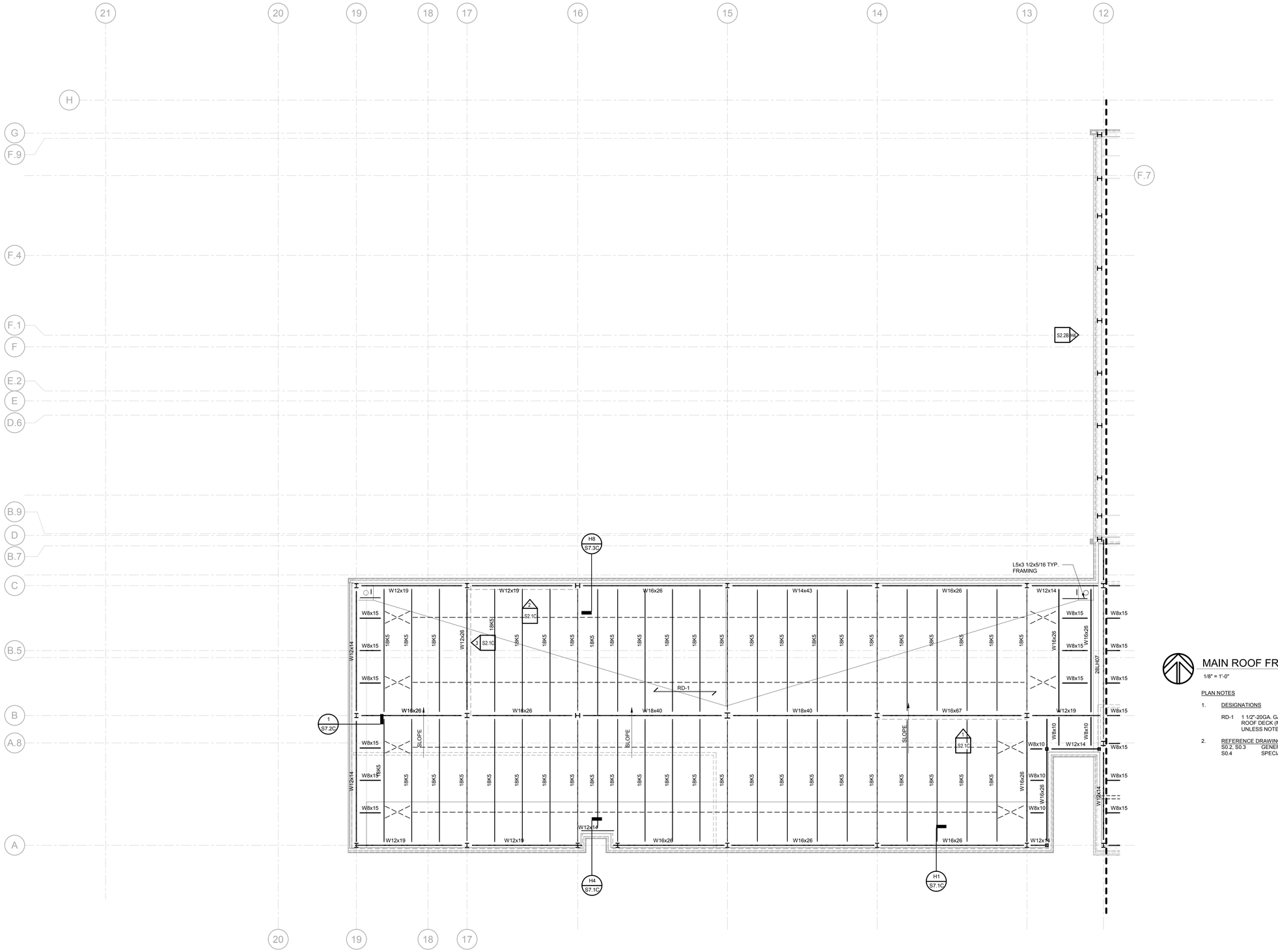
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S1.7B

BIM 360://WSU Hilberry Gateway/S18 -WSU Hilberry Gateway-9604.rvt

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| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

## MAIN ROOF FRAMING PLAN - SECTOR C

1/8" = 1'-0"

PLAN NOTES

1. DESIGNATIONS

   RD-1 1 1/2"-20GA. GALVANIZED WIDE RIB STEEL ROOF DECK (MIN. 3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE

2. REFERENCE DRAWINGS

   S0.2, S0.3 GENERAL STRUCTURAL NOTES
   S0.4 SPECIAL INSPECTION REQUIREMENTS

NOTE

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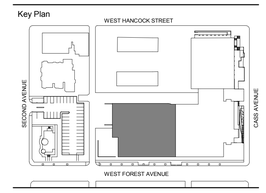
3. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS IN THIS ISSUE.

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MAIN ROOF FRAMING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

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Signature:

Drawing No:

# S1.7C

Sheet Size: 30" x 42" - Template Version

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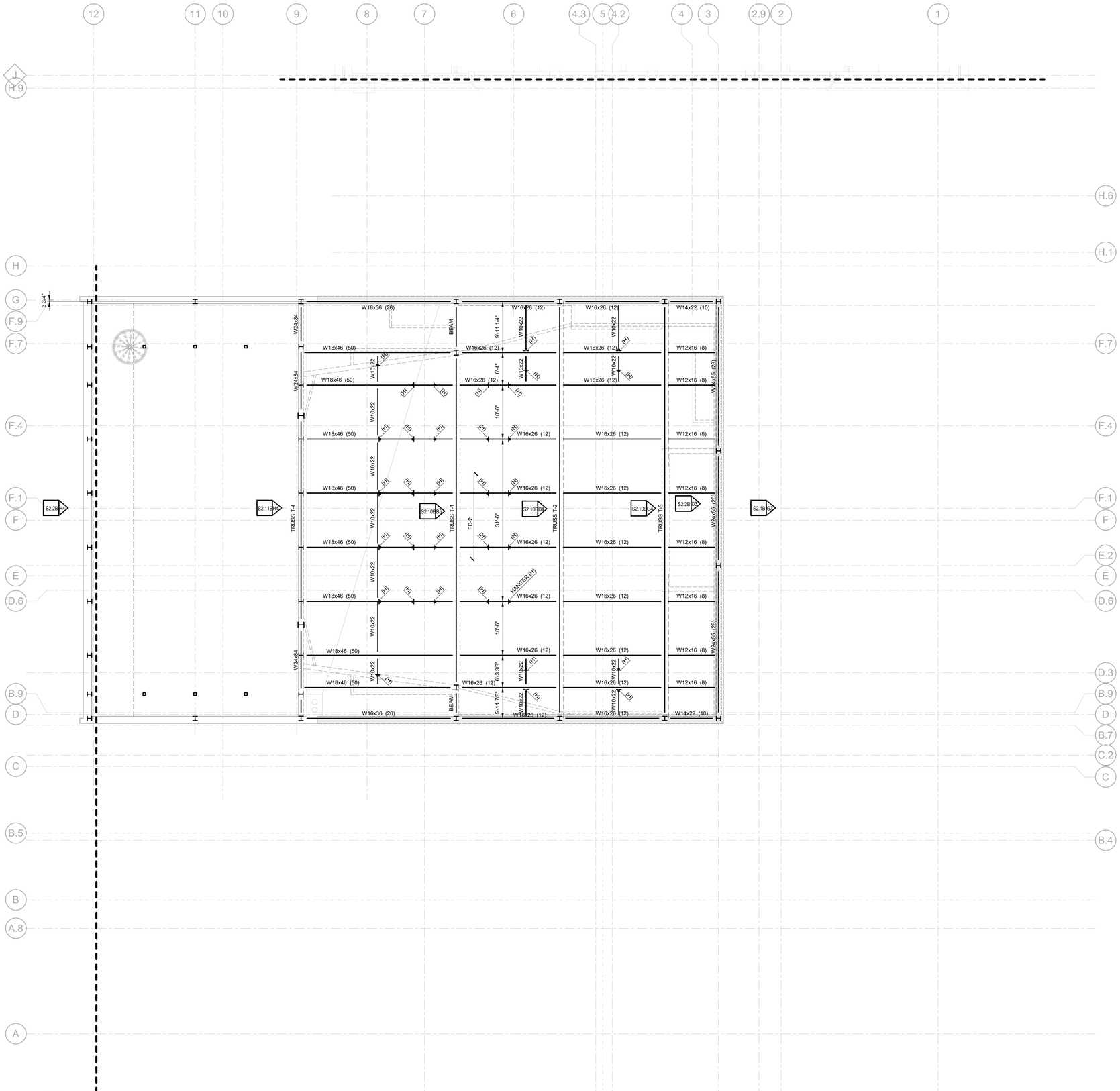


HALL ROOF FRAMING PLAN - SECTOR B

1/8" = 1'-0"

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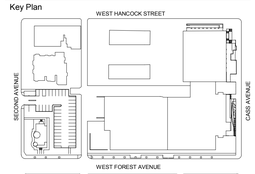
Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## HALL ROOF FRAMING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# S1.8B

NOTE

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3. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS IN THIS ISSUE.

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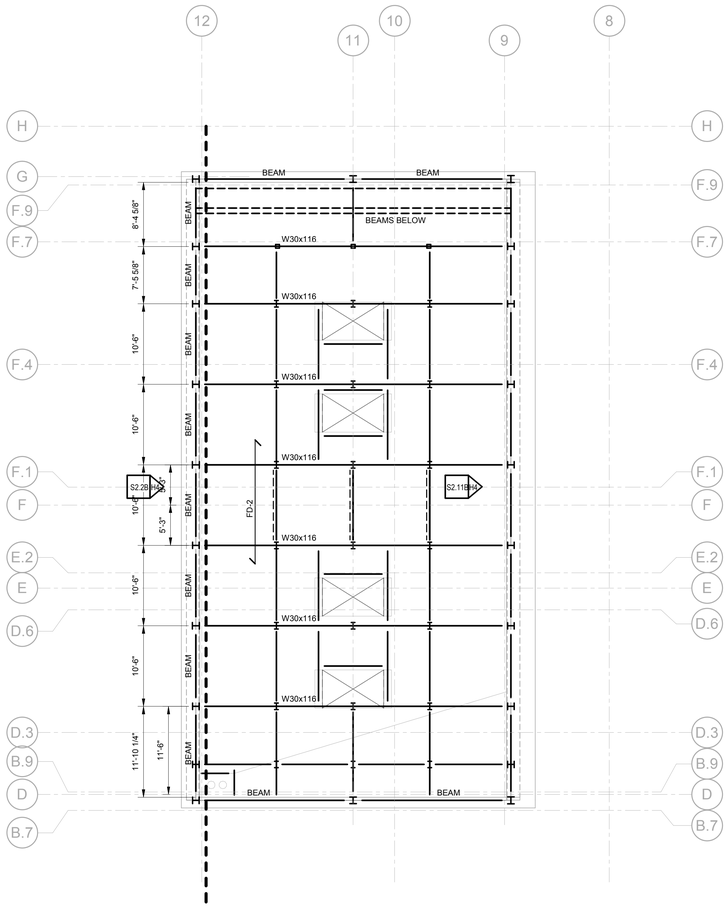
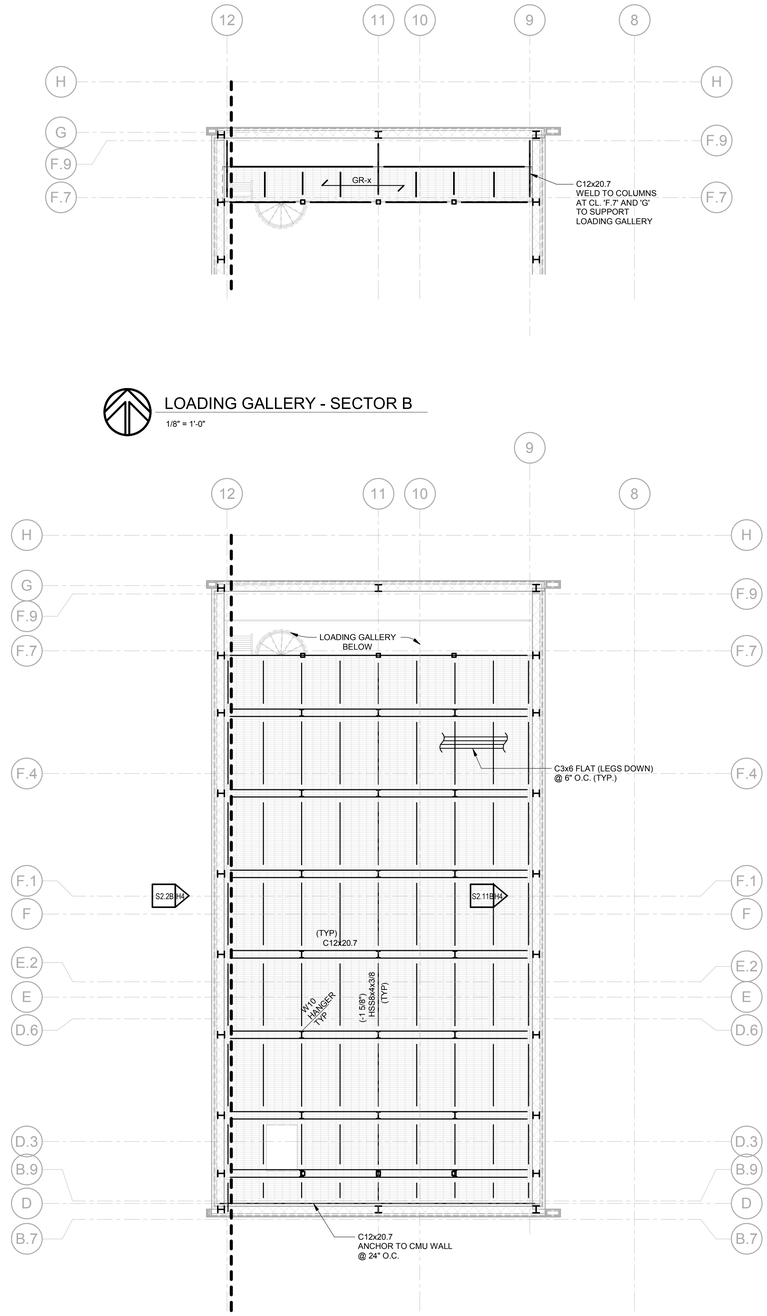



STAGE HOUSE ROOF FRAMING - SECTOR B

1/8" = 1'-0"




LOADING GALLERY - SECTOR B

1/8" = 1'-0"

GRIDIRON (THEATER) - SECTOR B

1/8" = 1'-0"

PLAN NOTES

1. DESIGNATIONS

   FD-2 4 1/2" NORMAL WEIGHT CONCRETE ON 3"-20GA. MIN. GALVANIZED COMPOSITE STEEL DECK (7 1/2" TOTAL THICKNESS) REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. HELD ON CHAIRS 1" FROM TOP OF SLAB.

2. REFERENCE DRAWINGS

   S0.2, S0.3 GENERAL STRUCTURAL NOTES
   S0.4 SPECIAL INSPECTION REQUIREMENTS

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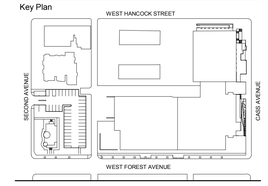
Key Plan

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Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

GRID IRON & STAGE HOUSE ROOF FRAMING PLANS - SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S1.9B

Sheet Size: 30" x 42" - Template Version

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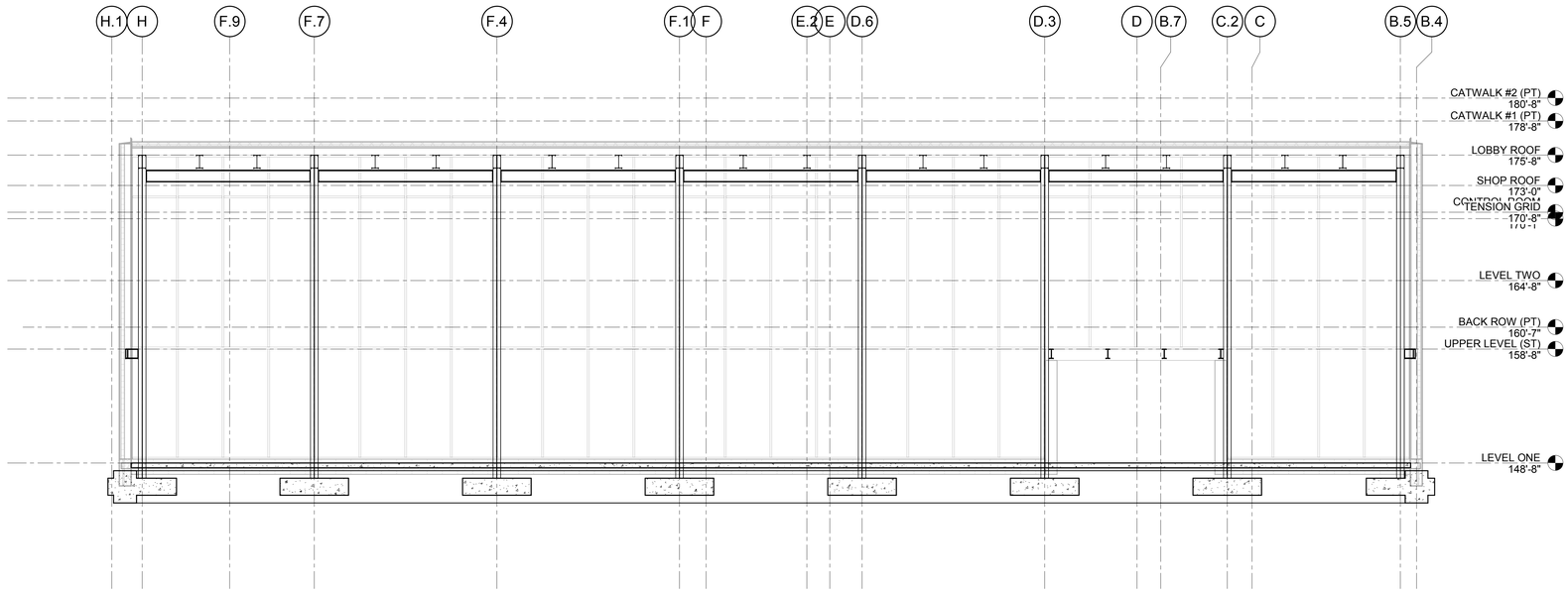
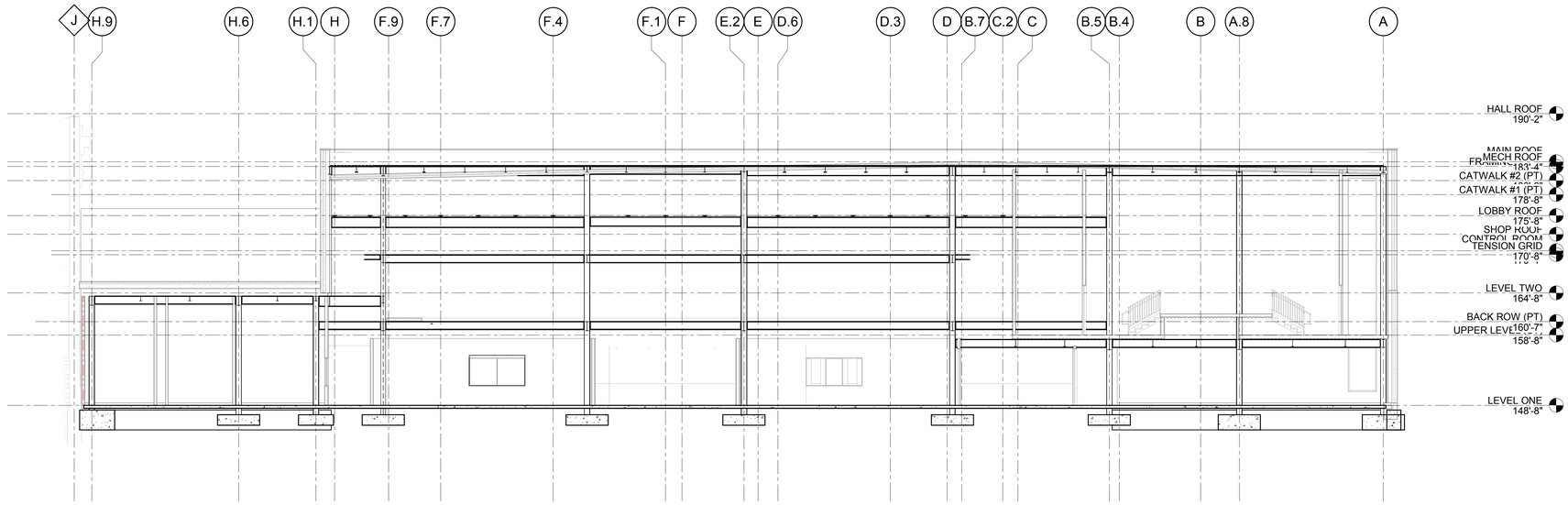



D3 / S2.1B ELEVATION ALONG 1
3/16" = 1'-0"




G3 / S2.1B ELEVATION ALONG 2
1/8" = 1'-0"

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Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## STRUCTURAL ELEVATIONS SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

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Signature:

Drawing No:

# S2.1B

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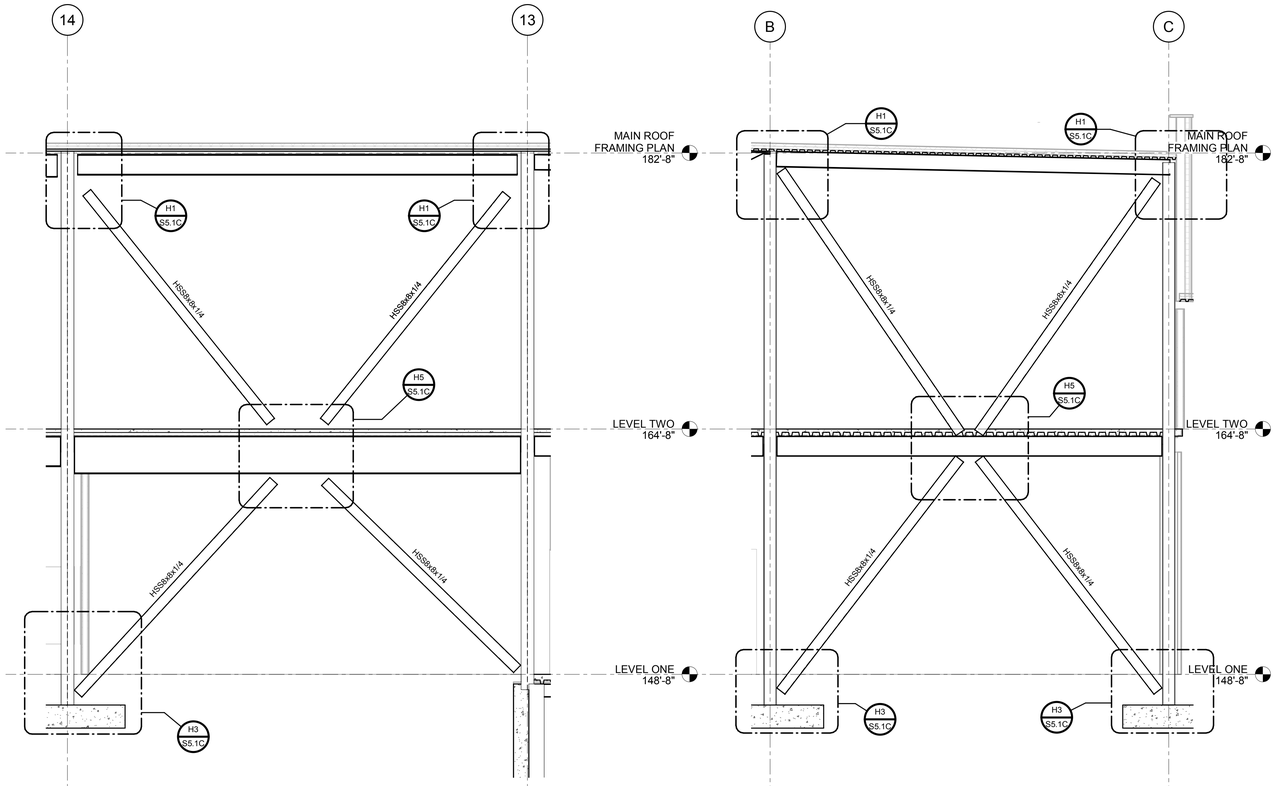
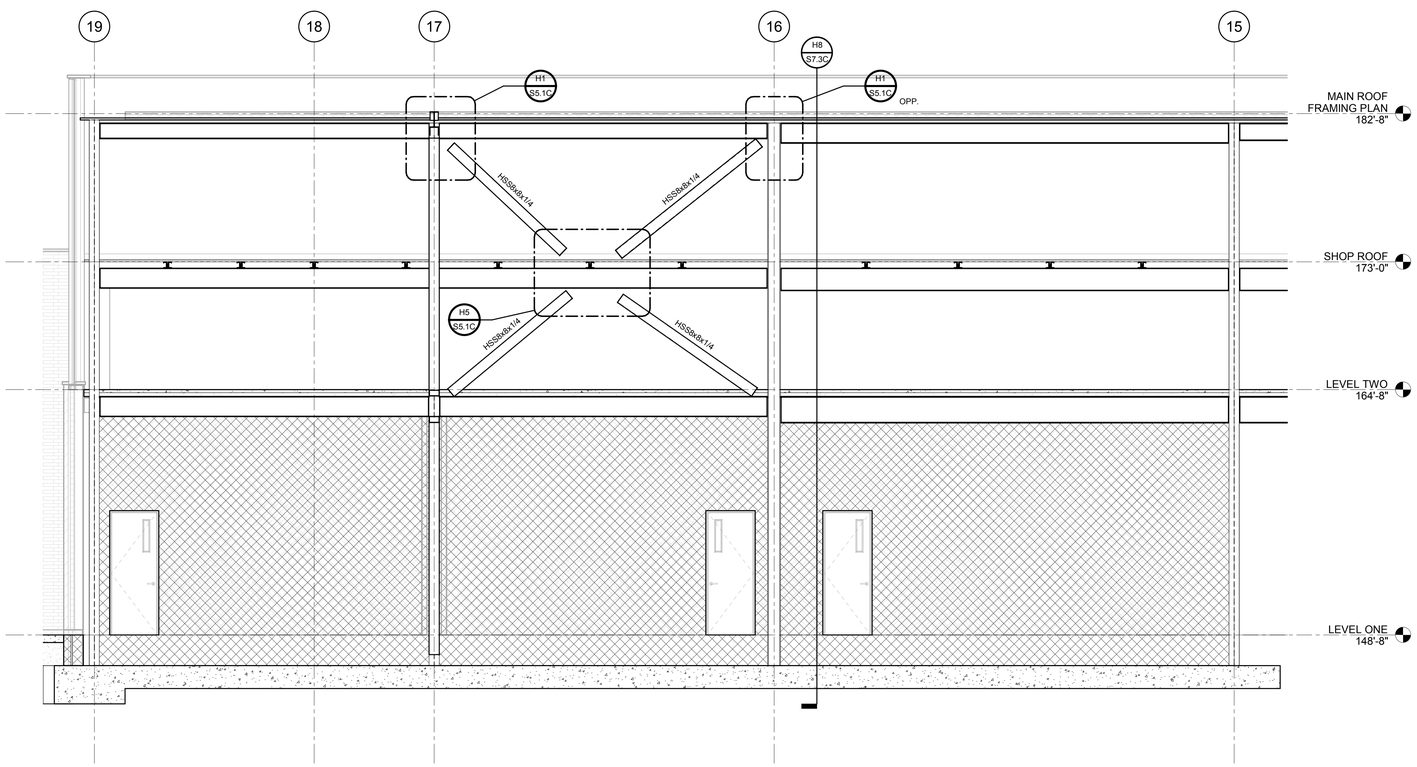



1 S2.1C BRACED FRAMES AT LINE B
1/4" = 1'-0"

3 S2.1C BRACED FRAMES AT LINE 17
1/4" = 1'-0"




2 S2.1C BRACED FRAMES AT LINE C
1/4" = 1'-0"

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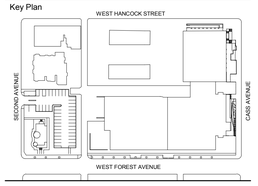


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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

BRACED FRAMES AND STRUCTURAL ELEVATIONS

Project Number: 3995-001-00

Drawn By: EZ

Scale: As indicated

Seal:

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Signature:

Drawing No:

S2.1C

Sheet Size: 30" x 42" : Template Version

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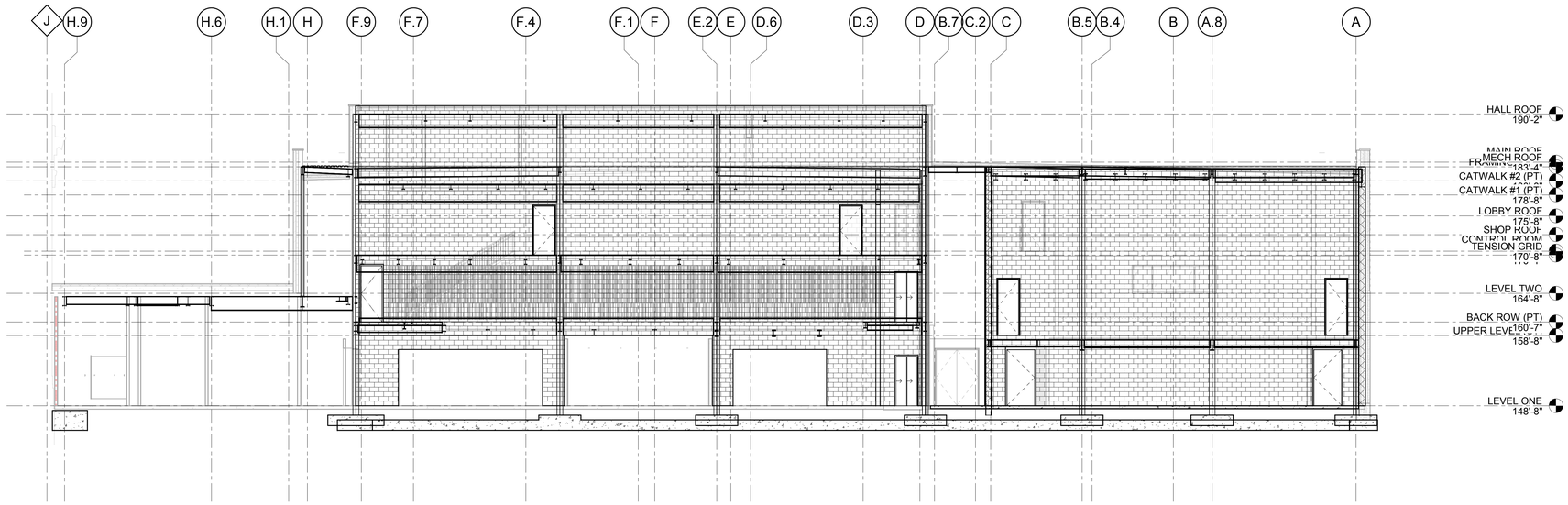
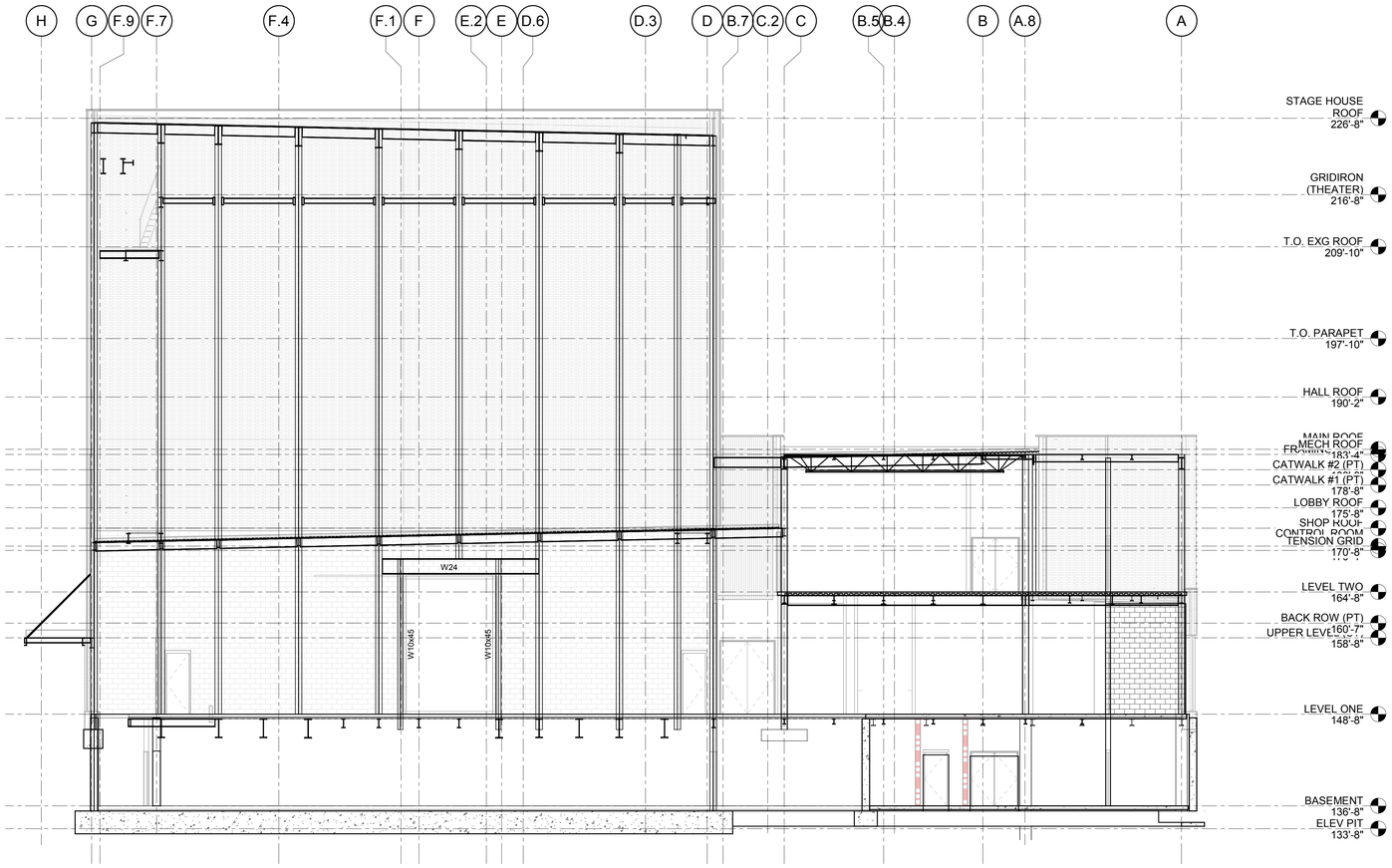



D3 / S2.2B ELEVATION ALONG 3

1/8" = 1'-0"




H4 / S2.2B ELEVATION ALONG 12

1/8" = 1'-0"

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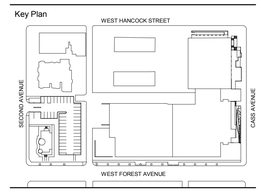
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## STRUCTURAL ELEVATIONS SECTOR B

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

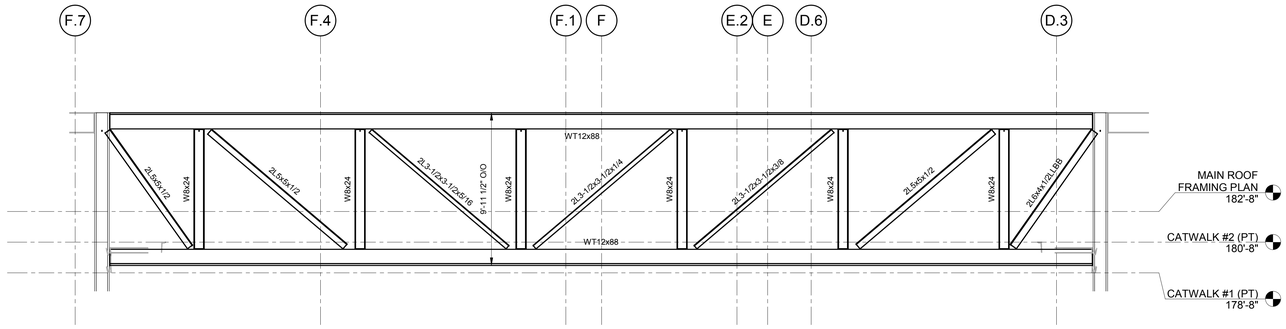
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

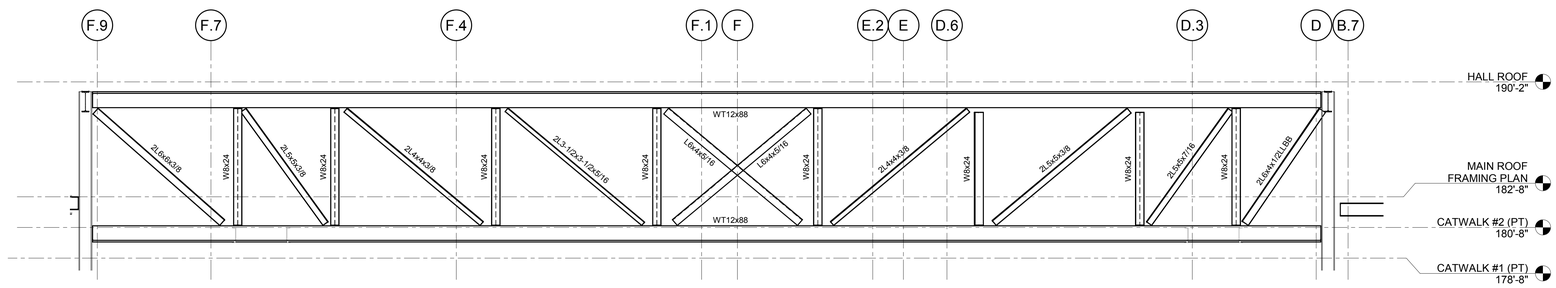
# S2.2B


Sheet Size: 30" x 42" - Template Version
BIM 360://WSU Hilberry Gateway/S18 - WSU Hilberry Gateway-9604-r1



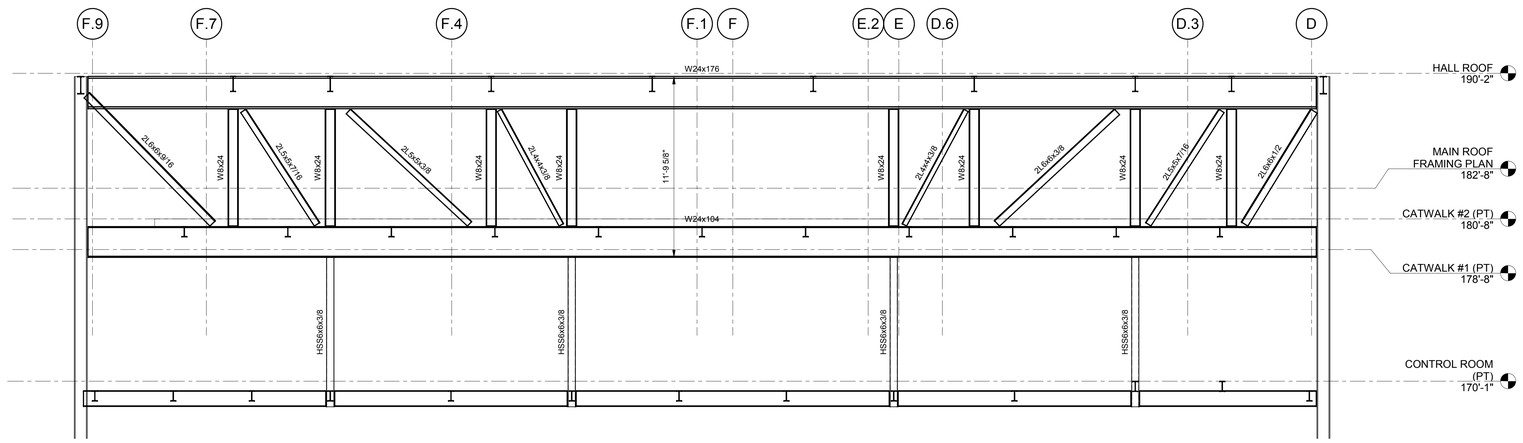

B5 / S2.10B TRUSS T-1

1/4" = 1'-0"




D4 / S2.10B TRUSS T-2

1/4" = 1'-0"




G4 / S2.10B TRUSS T-3

1/4" = 1'-0"

NOTE

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3. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS IN THIS ISSUE.

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architecture landscape architecture urban design

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
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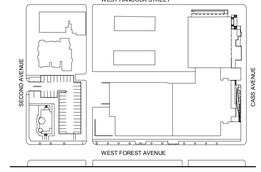
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fraraisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TRUSS ELEVATIONS

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

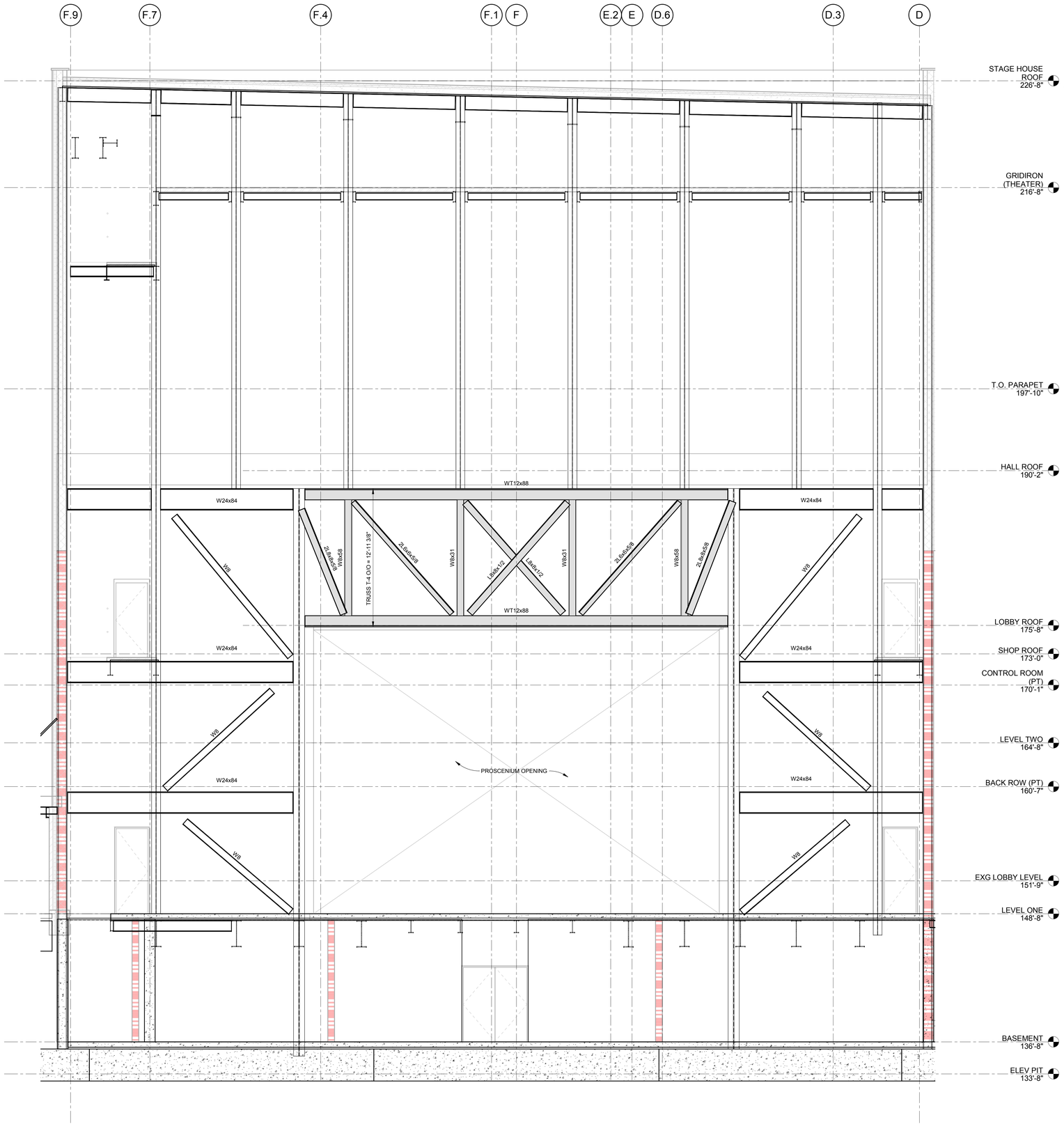
Drawing No:

# S2.10B

Sheet Size: 30" x 42" - Template Version

BIM 360://WSU Hilberry Gateway/S18 -WSU Hilberry Gateway-9604.rvt

Sheet Size: 30" x 42"
Template Version




H4
S2.11B
TRUSS T-4 & PROSCENIUM ELEVATION
1/4" = 1'-0"

NOTE

1. STRUCTURAL DRAWINGS ISSUED IN A DESIGN DEVELOPMENT STAGE BEFORE RELEASE AND COORDINATION WITH THE COMPLETE ARCHITECTURAL, THEATER, AND MEP DRAWINGS. STRUCTURAL DRAWINGS DO NOT YET COVER ALL ADDITIONAL DESIGN AND DETAILS (INCLUDING STEEL, CONCRETE, MASONRY, AND/OR OTHER ITEMS) PROVIDED IN THESE FUTURE DOCUMENTS.
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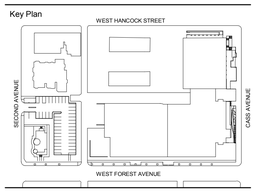
Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TRUSS ELEVATIONS

Project Number: 3995-001-00

Drawn By: EZ

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

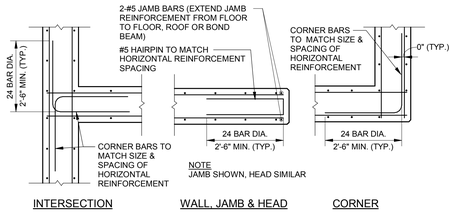
Signature:

Drawing No:

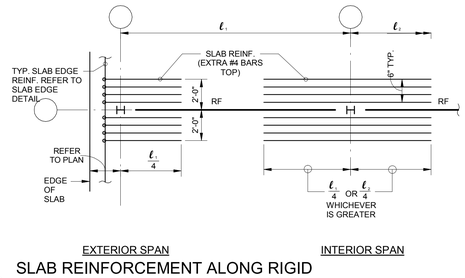
# S2.11B

BIM 360://WSU Hilberry Gateway/S18 - WSU Hilberry Gateway-9604.rvt

Sheet Size: 30" x 42"
- Template Version




B1 S3.0C
## TYPICAL WALL REINFORCING DETAIL
1/2" = 1'-0"




B3 S3.0C
## SLAB REINFORCEMENT ALONG RIGID FRAME (SEE PLAN FOR LOCATIONS)
3/4" = 1'-0"

## FOUNDATION SCHEDULE - SECTOR C

| MARK | | F-1 | F-1A | F-2 | F-2A | F-3 | F-3A | F-4 | F-5 | |
|---|---|---|---|---|---|---|---|---|---|---|
| FOOTING | SIZE NS" x EW" | 4'-0"x4'-0" | 4'-0"x4'-0" | 5'-0"x5'-0" | 5'-0"x5'-0" | 6'-0"x6'-0" | 6'-0"x6'-0" | 7'-0"x7'-0" | 7'-6x7'-6" | |
| | THICKNESS | 1'-6" | 2'-6" MIN. | 1'-6" | 2'-6" MIN. | 1'-6" | 2'-6" MIN. | 1'-6" | 1'-6" | |
| | REINF. EA. WAY | (6) # 5 E.W. BOT. | (6) # 5 E.W. BOT. | (8) # 5 E.W. BOT. | (8) # 5 E.W. BOT. | (8) # 5 E.W. BOT. | (8) # 5 E.W. BOT. | (7) # 6 E.W. BOT. | (9) # 6 E.W. BOT. | |
| REMARKS | | | | | | | | | | |

## WALL FOUNDATION SCHEDULE - SECTOR C

| MARK | SIZE | | REINFORCEMENT | | REMARK |
|---|---|---|---|---|---|
| | WIDTH | DEPTH | TOP | BOTTOM | |
| WF-1 | 2'-6" | 2'-6" | (3) # 5 CONT. | (3) # 5 CONT. | |
| WF-2 | 2'-0" | 1'-4" | (2) # 5 CONT. | (2) # 5 CONT. | |

## FOUNDATION SCHEDULE - SECTOR B

| MARK | | F.5 | F.6 | F.7 | F.7A | F.8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FOOTING | SIZE NS" x EW" | 5'-0"x5'-0" | 6'-0"x6'-0" | 7'-0"x7'-0" | 7'-0"x7'-0" | 8'-0"x8'-0" | | | | |
| | THICKNESS | 2'-0" | 2'-0" | 2'-0" | 3'-6" | 2'-0" | | | | |
| | REINF. EA. WAY | | | | | | | | | |
| REMARKS | | | | | | | | | | |

## WALL FOUNDATION SCHEDULE - SECTOR B

| MARK | SIZE | | REINFORCEMENT | | REMARK |
|---|---|---|---|---|---|
| | WIDTH | DEPTH | TOP | BOTTOM | |
| WF-3 | 2'-0" | 2'-0" | | | |
| WF-4 | 3'-0" | 2'-0" | | | |
| WF-5 | 4'-0" | 2'-0" | | | |
| WF-6 | 5'-0" | 3'-0" | | | |
| WF-6 | 7'-0" | 3'-0" | | | |

NOTE

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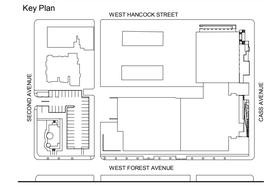
Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
# TYPICAL CONCRETE DETAILS AND SCHEDULES

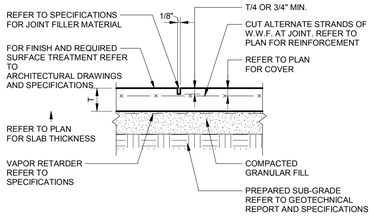
Project Number: 3995-001-00
Drawn By: FA
Scale: As indicated
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

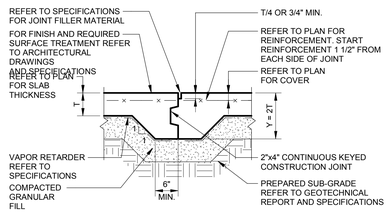
Drawing No:
# S3.0C

BIM 360:/WSU Hilberry Gateway/S18 - WSU Hilberry Gateway-98004.rvt



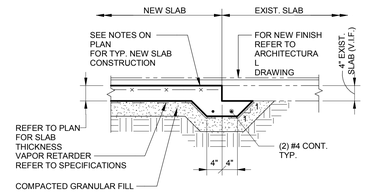

1 S3.1 TYPICAL SLAB CONTROL JOINT

3/4" = 1'-0"



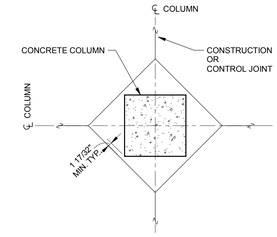

2 S3.1 TYPICAL SLAB CONTRUCTION JOINT

3/4" = 1'-0"



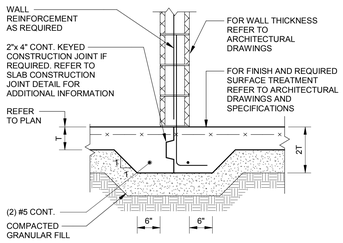

3 S3.1 TYPICAL TRANSITION @ NEW/EXIST. SLAB

3/4" = 1'-0"



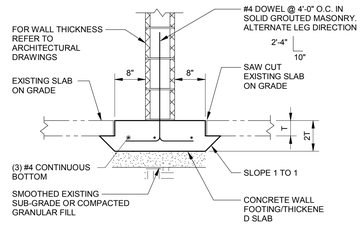

17 S3.1 CONCRETE COLUMN ISOLATION JOINT

1/2" = 1'-0"



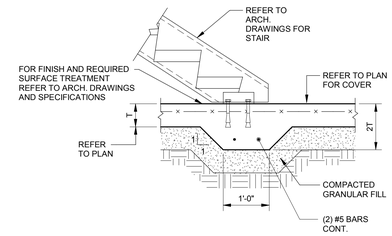

5 S3.1 TYPICAL THICKENED SLAB DETAIL AT INTERIOR WALL

3/4" = 1'-0"



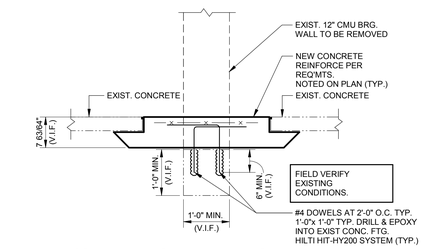

7 S3.1 TYPICAL THICKENED SLAB IN EXIST. SLAB

3/4" = 1'-0"



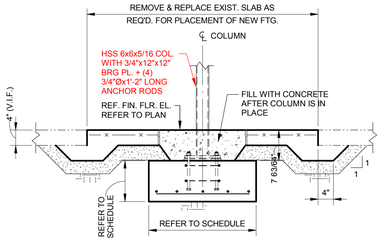

6 S3.1 TYPICAL THICKENED SLAB AT STAIR STRINGER

3/4" = 1'-0"



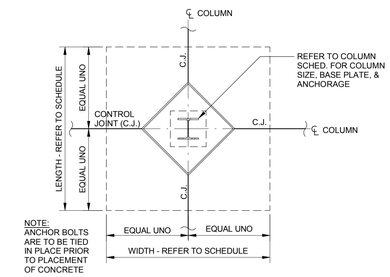

12 S3.1 TYPICAL NEW SLAB REPLACEMENT AT EXISTING BEARING WALL

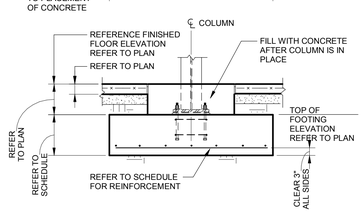
3/4" = 1'-0"




11 S3.1 TYPICAL NEW FTG. IN EXISTING BUILDING

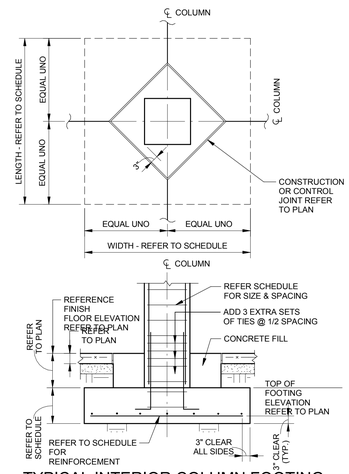
3/4" = 1'-0"



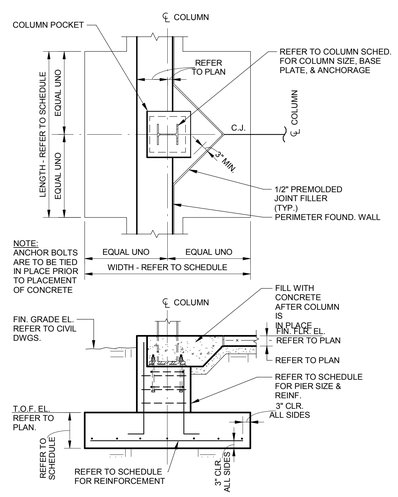

8 S3.1 TYPICAL INTERIOR COLUMN FOOTING

1/2" = 1'-0"



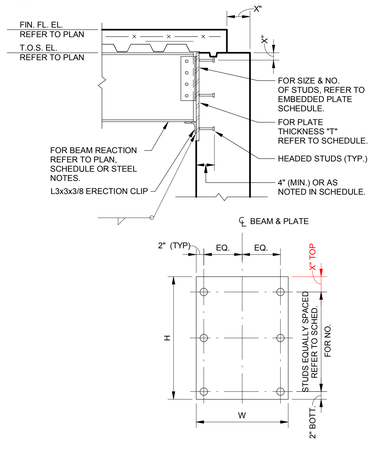

9 S3.1 TYPICAL INTERIOR COLUMN FOOTING WITH PIER

1/2" = 1'-0"



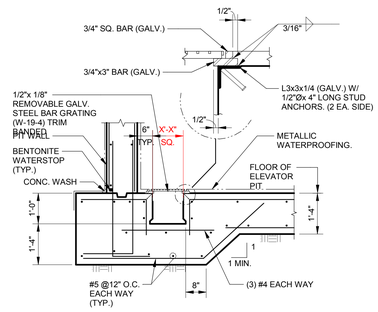

10 S3.1 TYPICAL EXTERIOR COLUMN FOOTING

1/2" = 1'-0"



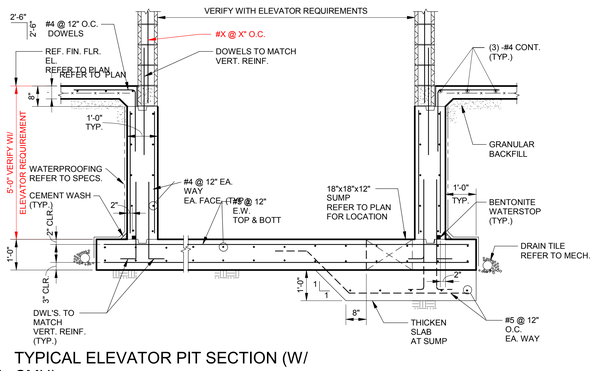

13 S3.1 TYPICAL EMBEDDED PLATE DETAIL

3/4" = 1'-0"




16 S3.1 TYPICAL ELEVATOR PIT SUMP SECTION

1/2" = 1'-0"




15 S3.1 TYPICAL ELEVATOR PIT SECTION (W/ CMU)

1/2" = 1'-0"

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| | |
|---|---|
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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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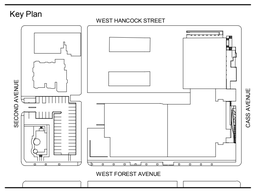
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 50% DESIGN DEVELOPMENT | NOV. 30, 2018 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

TYPICAL CONCRETE DETAILS

Project Number: 3995-001-00

Drawn By: SM

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S3.1

NOTE

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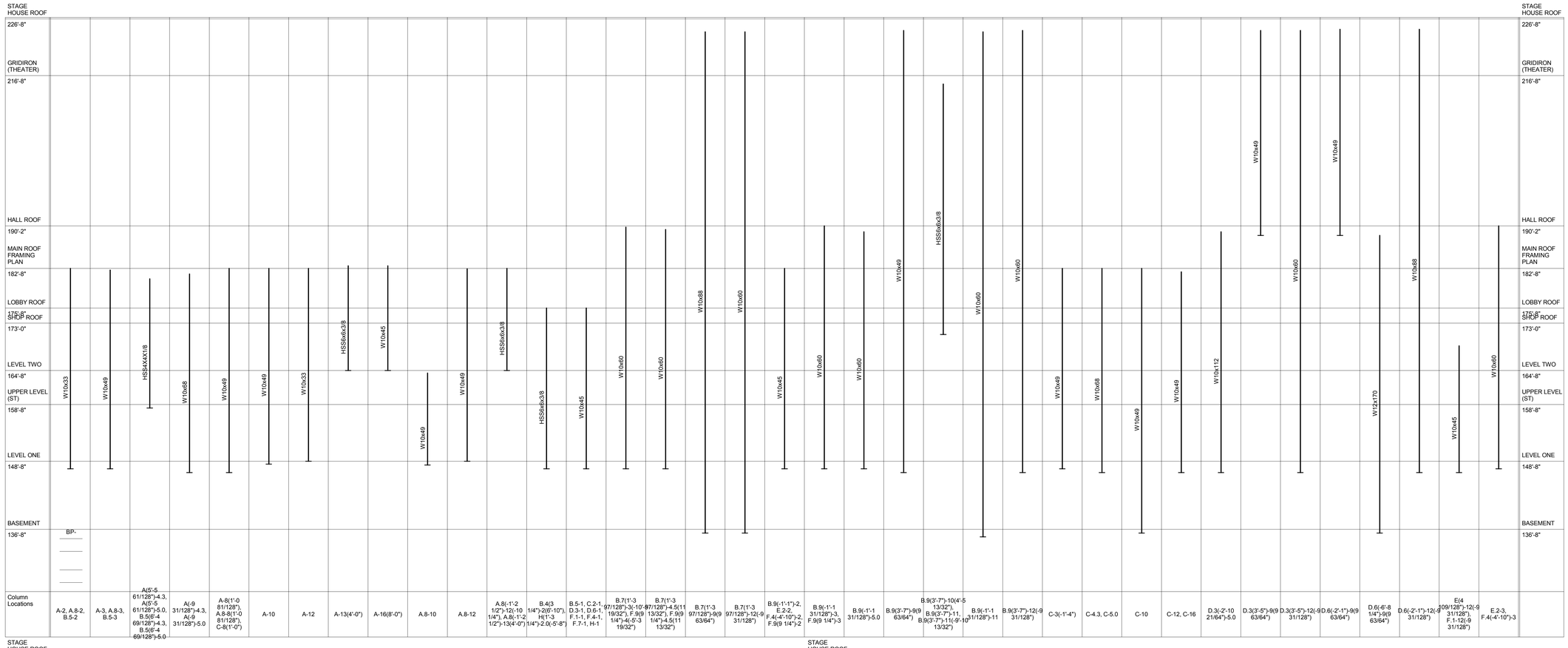
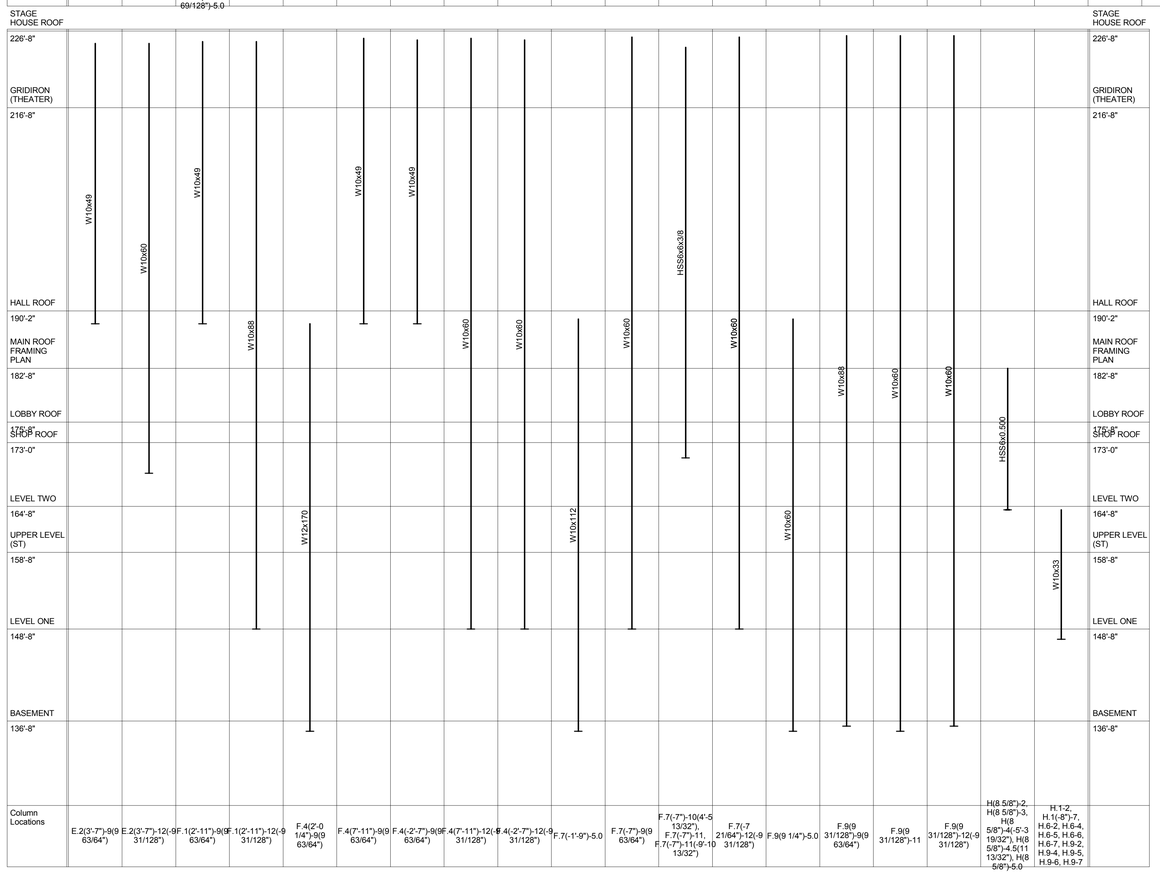
Sheet Size: 30" x 42" - Template Version

BIM 360://WSU Hilberry Gateway/518 -WSU Hilberry Gateway-9604.rvt

Sheet Size: 30" x 42"
- Template Version





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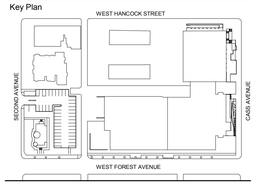
Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# STEEL COLUMN SCHEDULES SECTOR B

Project Number: 3995-001-00

Drawn By: FA

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

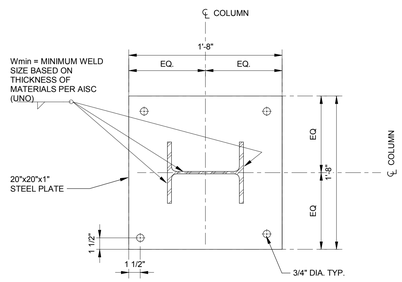
S5.0

BIM 360://WSU Hilberry Gateway/S18 -WSU Hilberry Gateway-9604-r+t

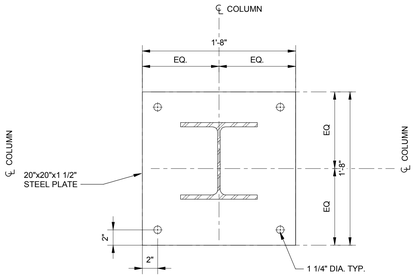
Sheet Size: 30" x 42"
- Template Version

# STEEL COLUMN SCHEDULE - SECTOR C

| MARK / SUPPORTING | C-1 | C-1a | C-2 | C-2a | C-3 | C-3a | C-4 | C-5 | C-6 | C-7 | C-8 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAIN ROOF 182'-8" | | | | | | | | | | | |
| SHOP ROOF 173'-0" | W10x33 | W10x33 | W10x39 | W10x39 | W10x45 | W10x45 | W10x49 | W12x45 | W12x65 | HSS6x6x3/8 | |
| REF. FIN. LEVEL TWO 164'-8" | | | | | | | | | | | |
| REF. FIN. LEVEL ONE 148'-8" | 2'-0" | | | | | | | | | | |
| BASEMENT 136'-8" | | | | | | | | | | | |
| BASE PLATE — TYPE | BP-2 | BP-2 | BP-2 | BP-2 | BP-5 | BP-5 | BP-3 | BP-5 | BP-6 | BP-2 | |
| BASE PLATE — SIZE L" x W" x T" | | 16"x16"x1" | | 16"x16"x1" | 18"x18"x1 1/2" | 18"x18"x1 1/2" | 16"x16"x1 1/2" | 18"x18"x1 1/2" | 18"x18"x1 1/2" | 16"x16"x1" | |
| BASE PLATE — ANCHOR BOLTS | | . | | . | . | . | . | . | . | . | |
| BASE PLATE — ANCHOR BOLT PROJECTION | | . | | . | . | | . | . | . | . | |
| REMARKS | | | | | | | | | | | |




2 S5.0C BASE PLATE TYPE "BP-7"
1 1/2" = 1'-0"




3 S5.0C BASE PLATE TYPE "BP-8"
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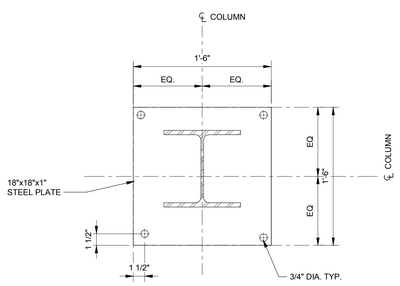
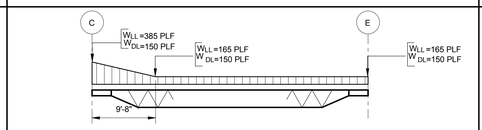
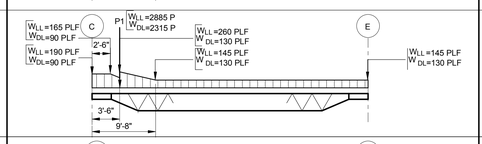
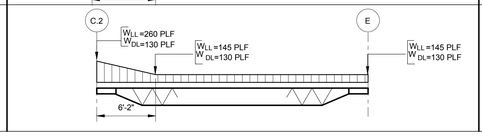
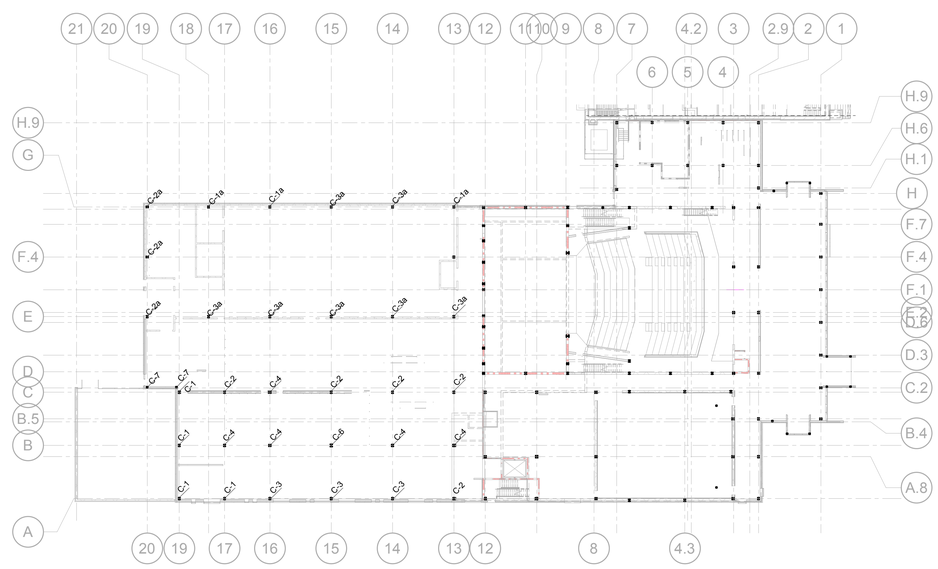



4 S5.0C BASE PLATE TYPE "BP-9"
1 1/2" = 1'-0"

# SPECIAL JOIST SCHEDULE

| MARK | SIZE | LOADING DIAGRAM | REMARKS |
|---|---|---|---|
| 24LH04-SPJ1 | |   | |
| 24LH04-SPJ2 | |   | |
| 24LH04-SPJ3 | |   | |




COLUMN KEY PLAN
1" = 30'-0"

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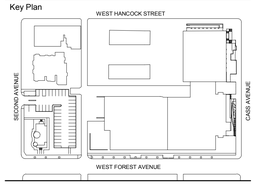
Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

TYPICAL STEEL DETAILS AND SCHEDULES

Project Number: 3995-001-00

Drawn By: FA

Scale: As indicated

Seal:

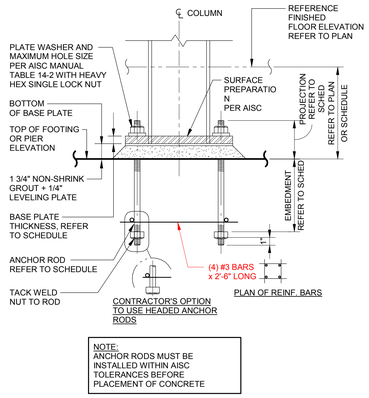
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

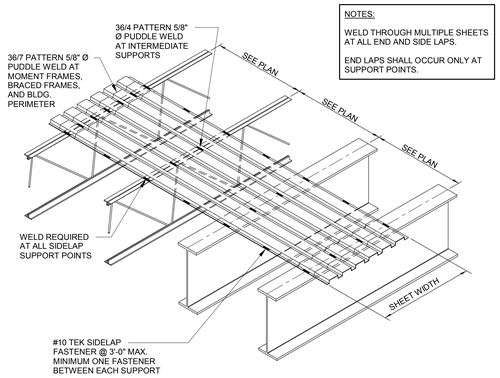
S5.0C

BIM 360://WSU Hilberry Gateway/S18 -WSU Hilberry Gateway-9604.rvt



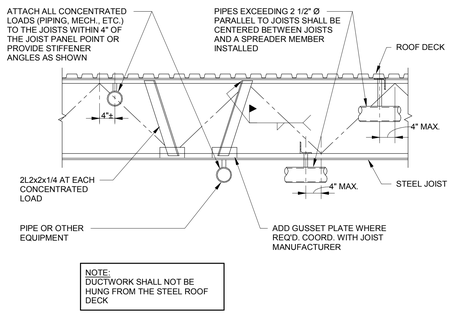

C1 / S5.1C — ANCHOR ROD DETAIL WITH LEVELING PLATE - BASE PLATE TYPE "X"

1 1/2" = 1'-0"



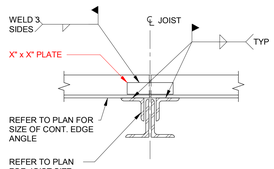

C3 / S5.1C — TYPICAL ROOF DECK FASTENER PATTERNS

1/2" = 1'-0"



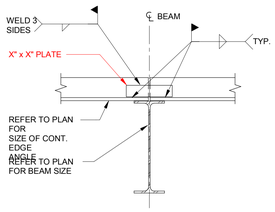

C5 / S5.1C — JOIST REINF. AT MECHANICAL PIPING

3/4" = 1'-0"



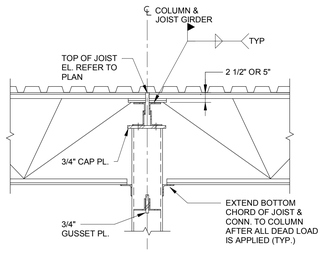

C8 / S5.1C — TYP. CONT. ANGLE SPLICE AT ROOF PERIMETER JOIST

1 1/2" = 1'-0"



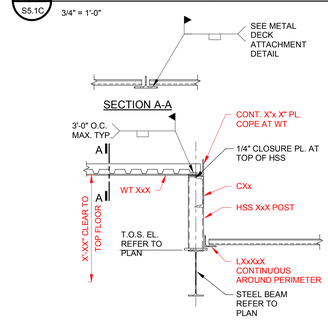

D1 / S5.1C — TYPICAL CONT. ANGLE SPLICE AT ROOF PERIMETER (BEAM)

1 1/2" = 1'-0"



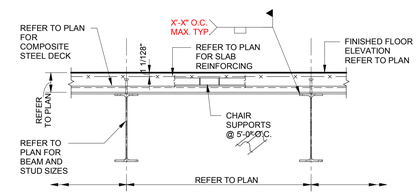

D3 / S5.1C — JOIST/JOIST GIRDER COLUMN CONN.

3/4" = 1'-0"



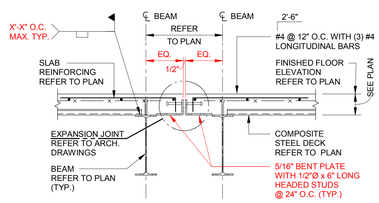

D5 / S5.1C — ROOF PROJECTION AT ELEVATOR SHAFT

3/4" = 1'-0"



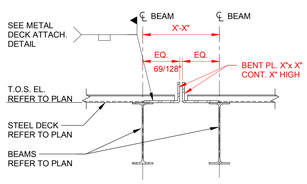

D8 / S5.1C — TYPICAL BEAM TO DECK ATTACHMENT

3/4" = 1'-0"



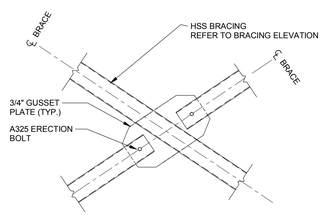

F1 / S5.1C — COMPOSITE FLOOR AT EXPANSION JOINT

3/4" = 1'-0"




F3 / S5.1C — EXPANSION JOINT @ ROOF

1" = 1'-0"




F5 / S5.1C — VERTICAL BRACING CONNECTION DETAILS

1/2" = 1'-0"

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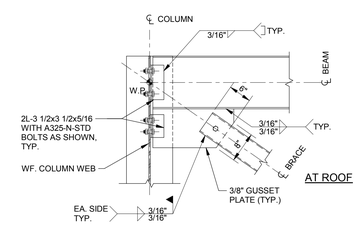
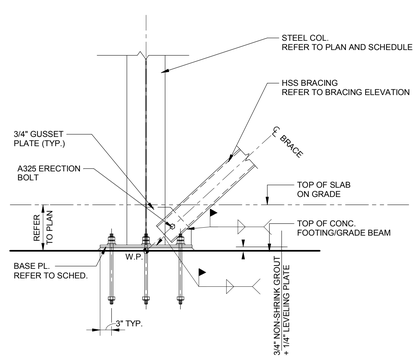


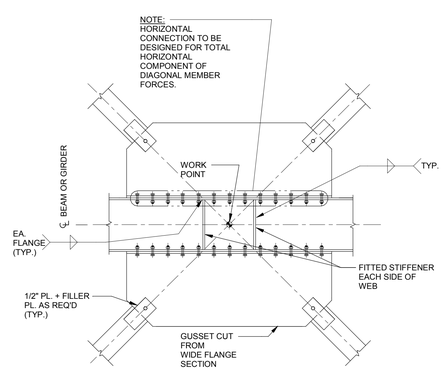

H1 / S5.1C — DIAGONAL BRACING CONNECTION TO WF COLUMN WEB & WF BEAM

3/4" = 1'-0"



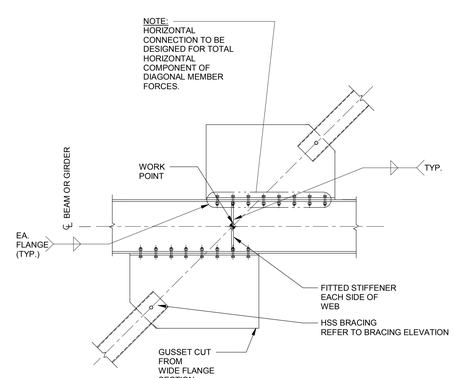

H3 / S5.1C — DIAGONAL BRACING CONN. TO FOOTING/GRADE BEAM

3/4" = 1'-0"




H5 / S5.1C — BRACE FRAME DETAIL

1/2" = 1'-0"




H8 / S5.1C — BRACE FRAME DETAIL

1/2" = 1'-0"

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HGA

WAYNE STATE UNIVERSITY

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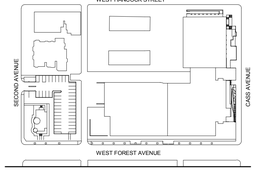
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TYPICAL STEEL DETAILS

Project Number: 3995-001-00

Drawn By: FA

Scale: As indicated

Seal:

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Signature:

Drawing No:

# S5.1C

Sheet Size: 30" x 42" - Template Version

BIM 360://WSU Hilberry Gateway/S18 -WSU Hilberry Gateway-9604.rvt

Sheet Size: 30" x 42"
: Template Version

NOTE

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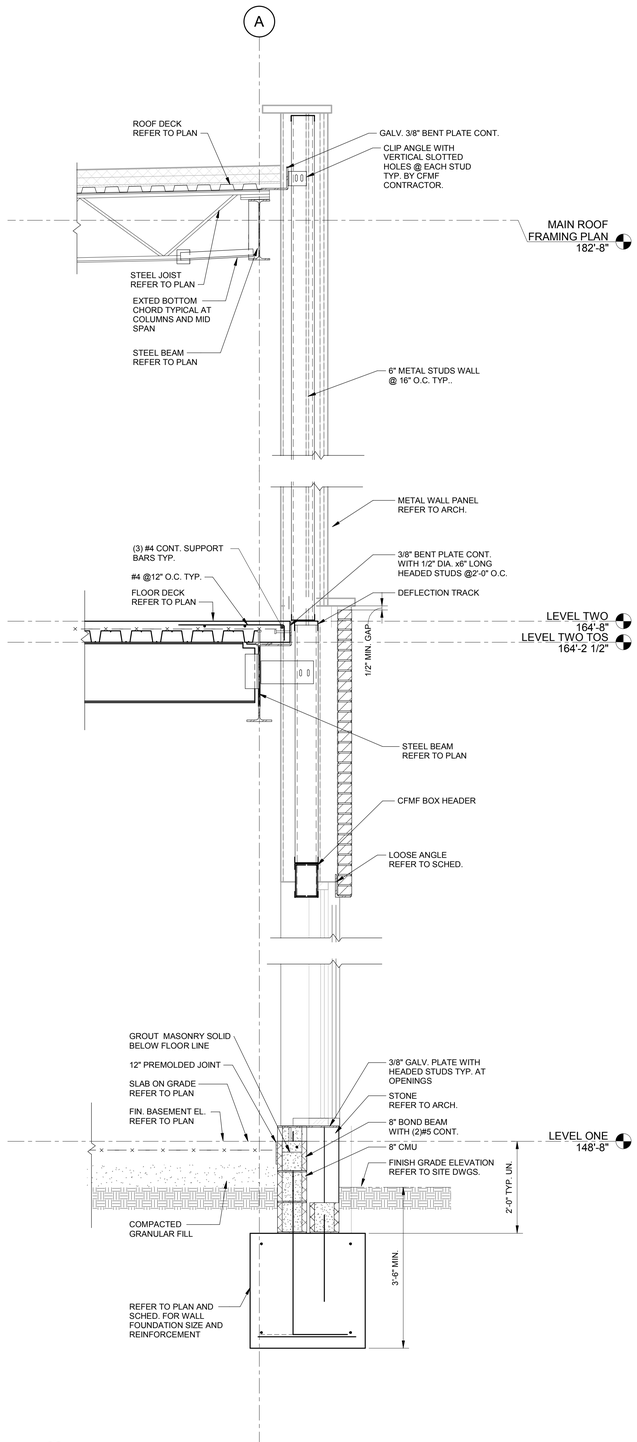
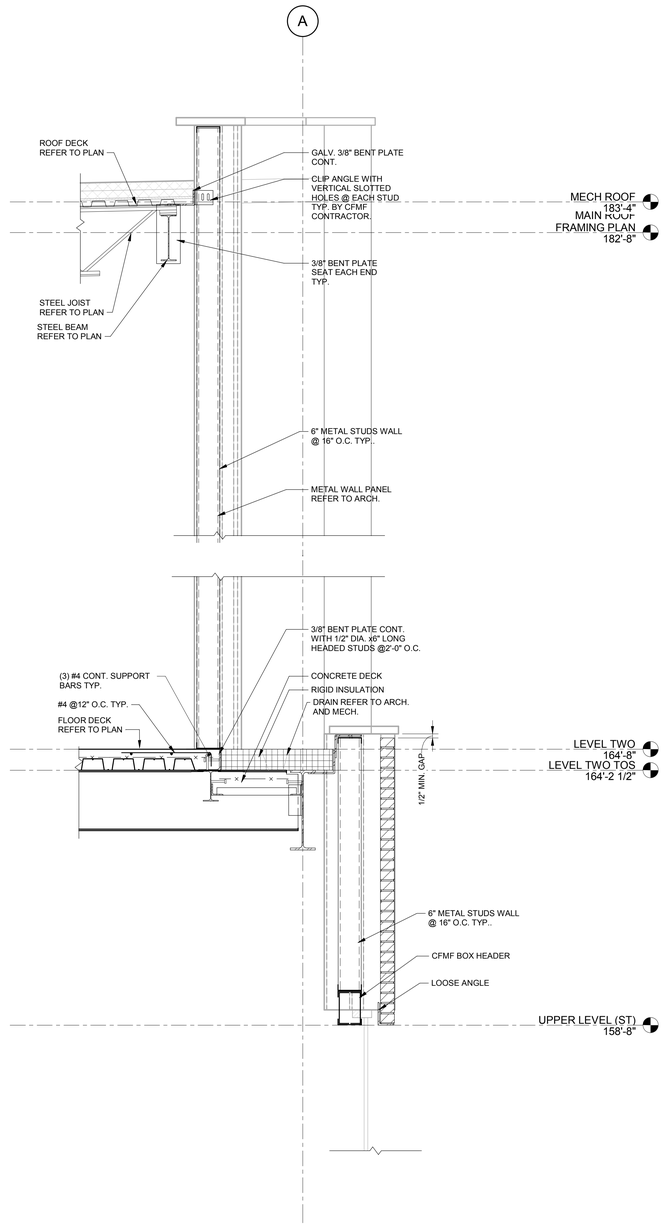
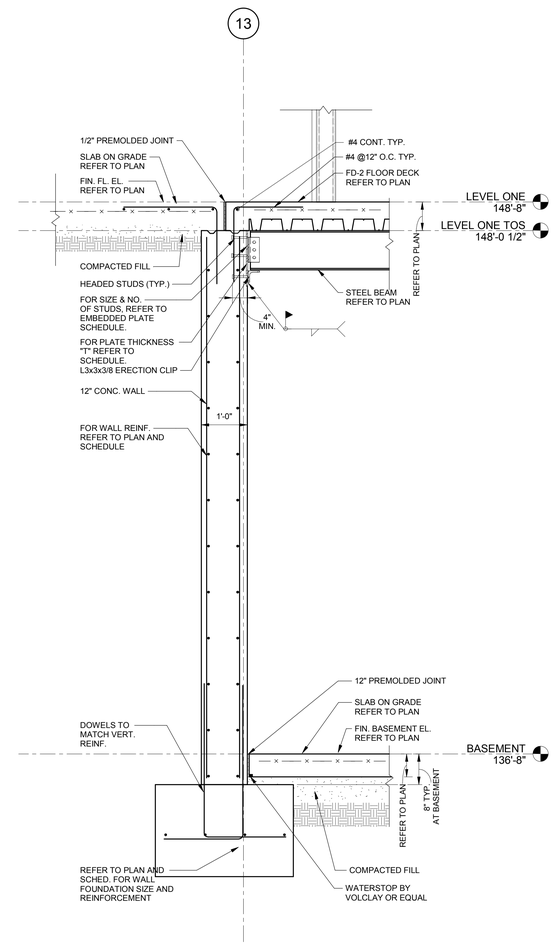



H1 / S7.1C SECTION
3/4" = 1'-0"




H4 / S7.1C WALL SECTION
3/4" = 1'-0"




H7 / S7.1C WALL SECTION
3/4" = 1'-0"

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WAYNE STATE UNIVERSITY

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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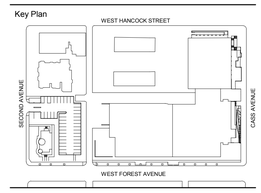
Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GENERAL SECTIONS AND DETAILS SECTOR C

Project Number: 3995-001-00

Drawn By: FA

Scale: As indicated

Seal:

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Signature:

Drawing No:

# S7.1C

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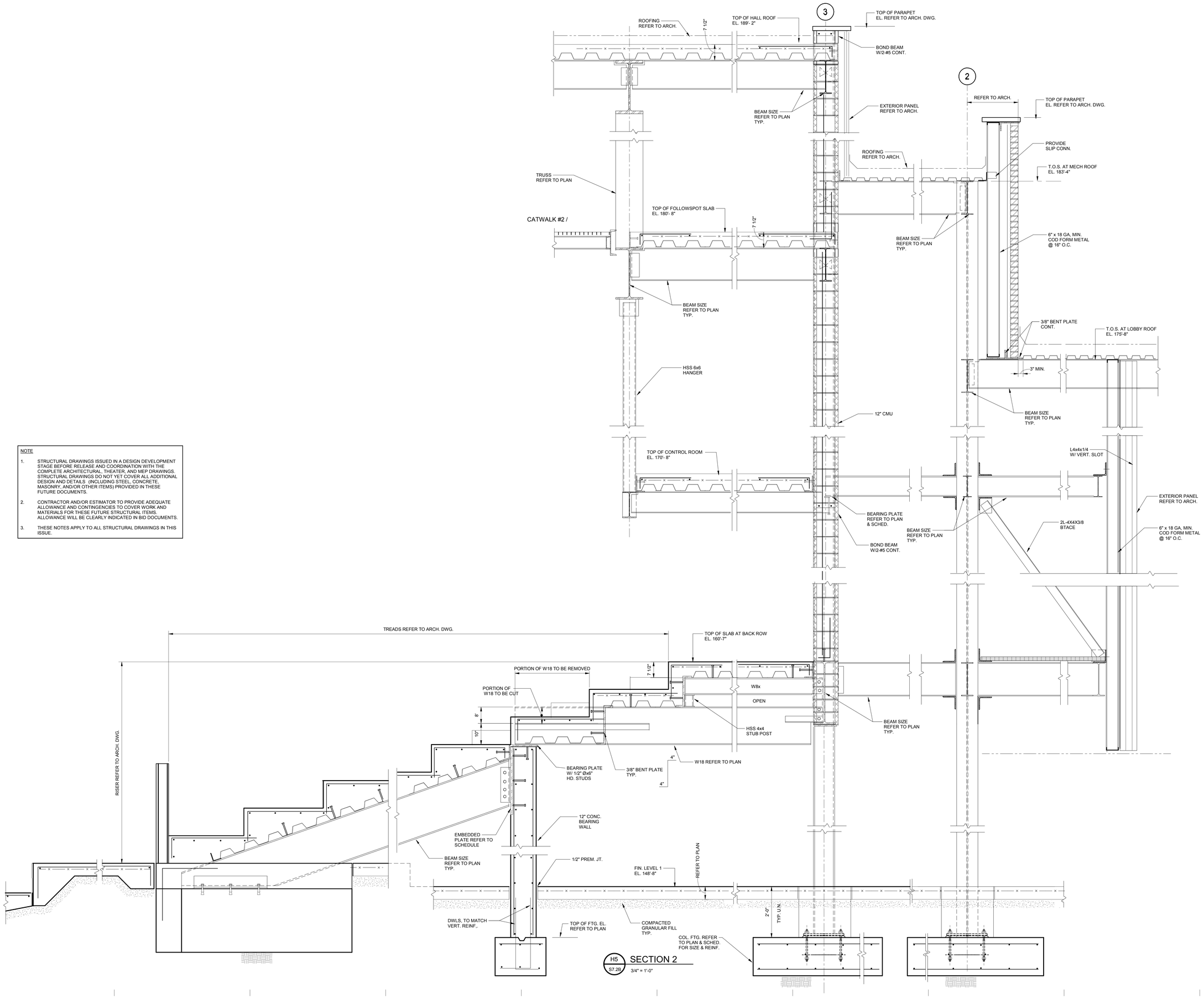
Sheet Size: 30" x 42"
- Template Version

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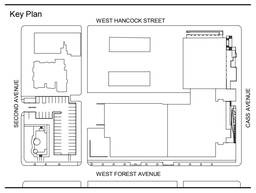


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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GENERAL SECTIONS AND DETAILS SECTOR B

Project Number: 3995-001-00

Drawn By: NB

Scale: As indicated

Seal:

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Signature:

Drawing No:

# S7.2B

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Sheet Size: 30" x 42"
- Template Version

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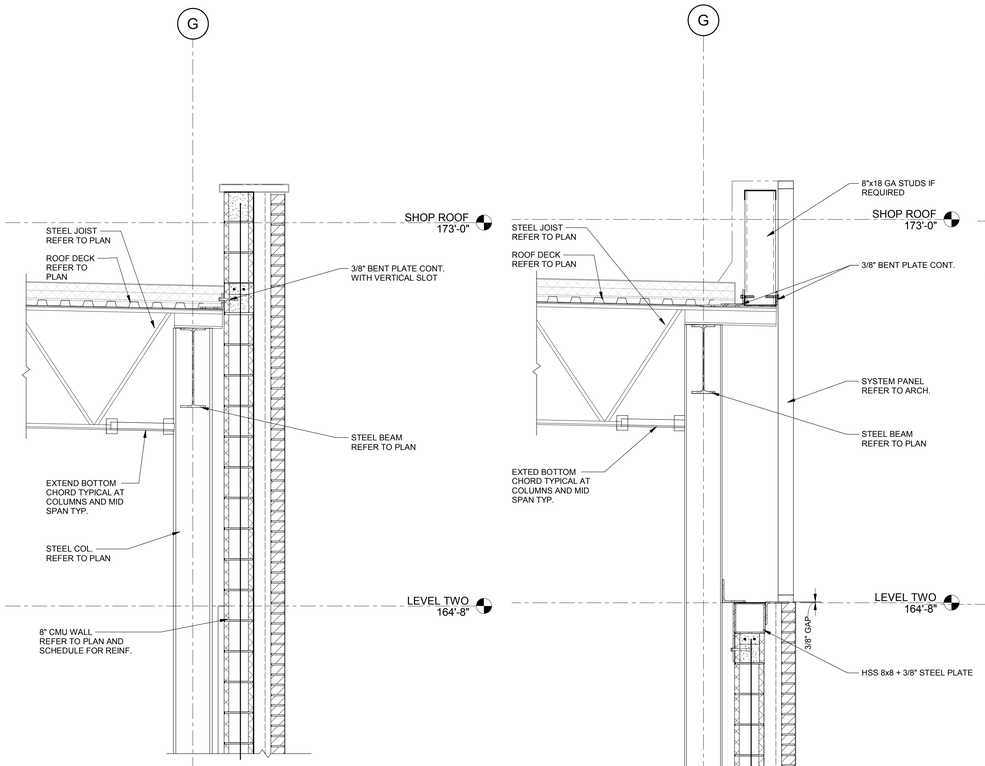
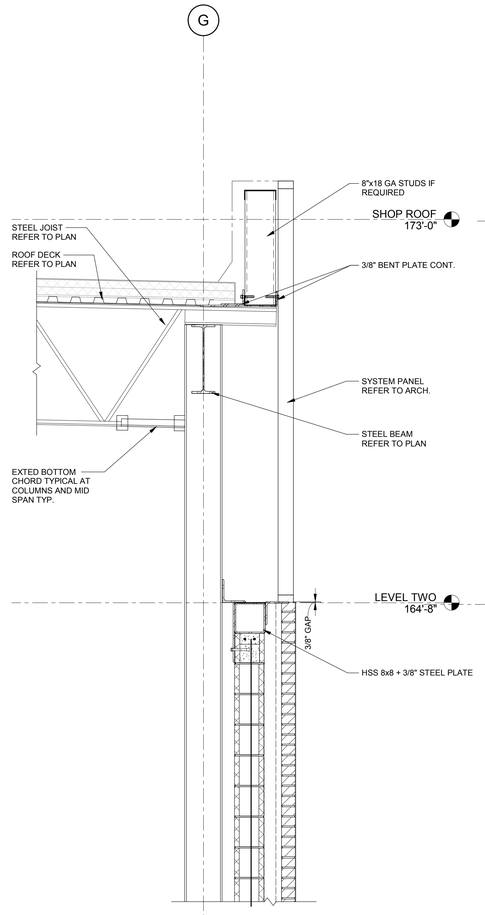
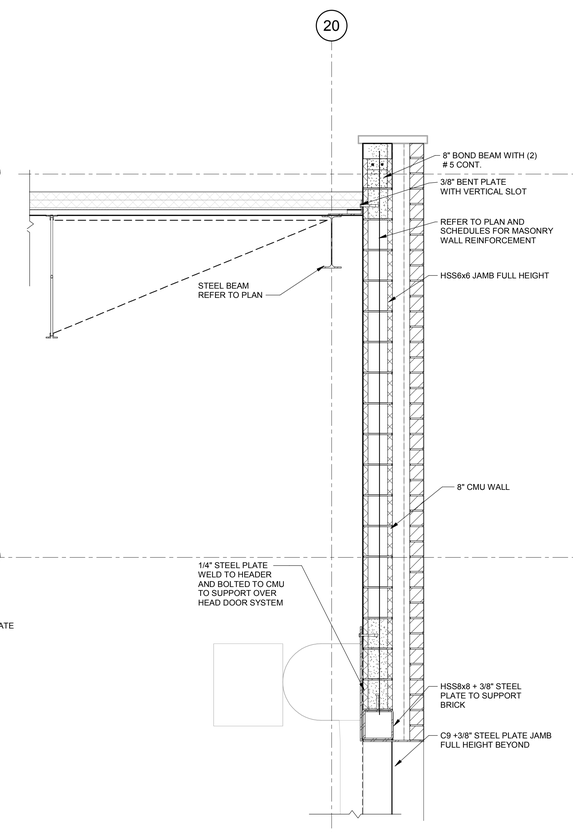
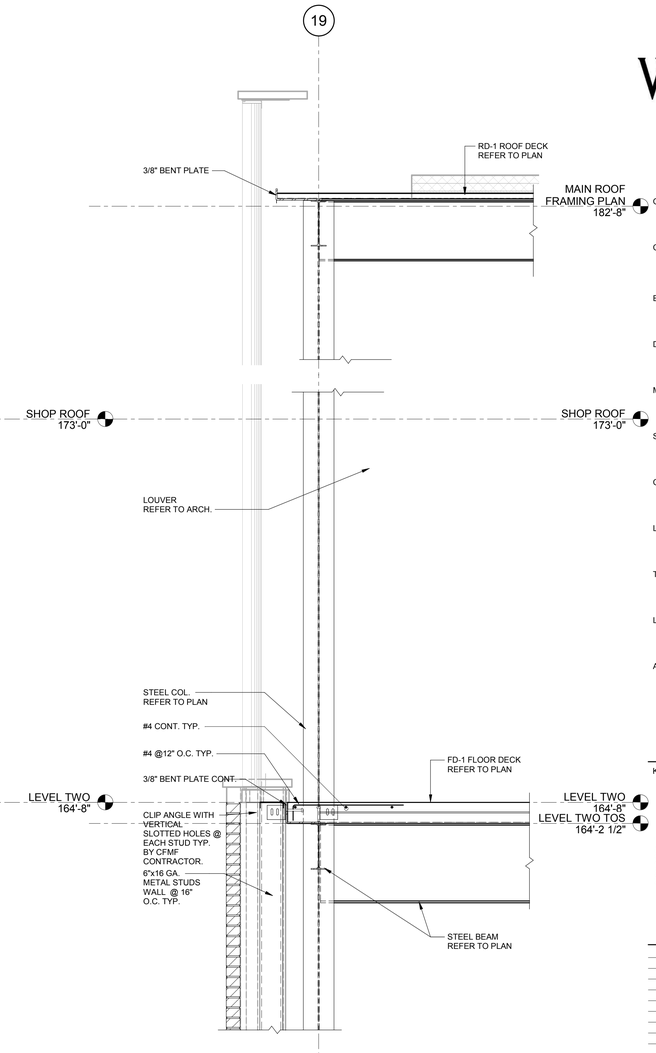
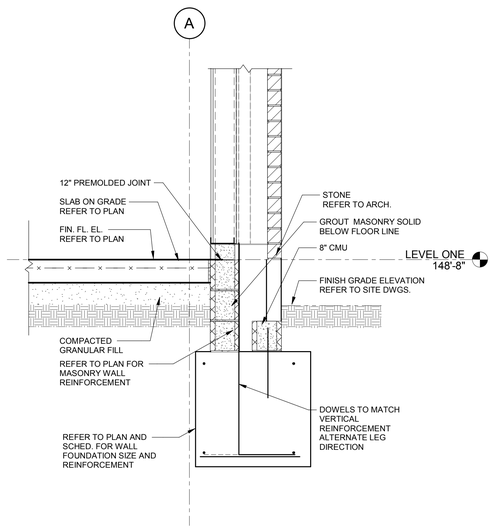



E1 S7.2C SECTION
3/4" = 1'-0"

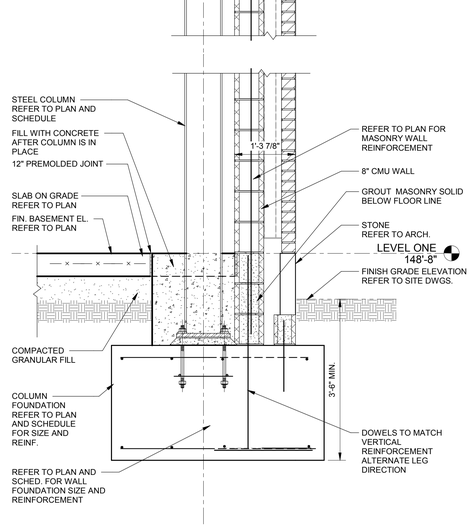


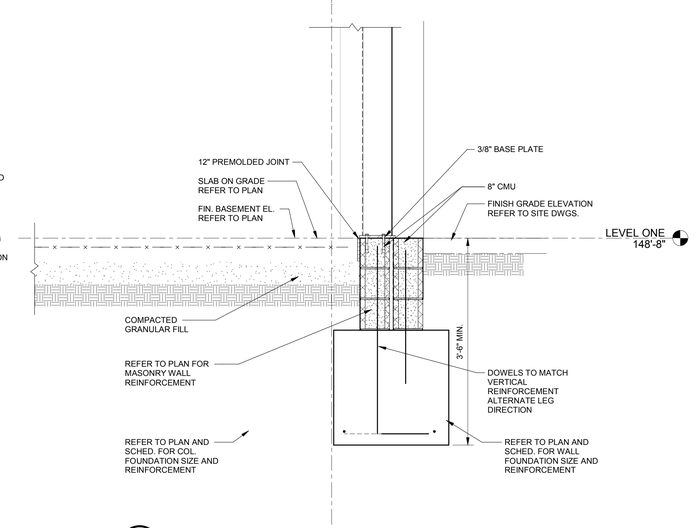




H1 S7.2C SECTION
3/4" = 1'-0"




H3 S7.2C SECTION
3/4" = 1'-0"




H5 S7.2C SECTION
3/4" = 1'-0"

1 S7.2C Section 35
3/4" = 1'-0"

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WAYNE STATE UNIVERSITY

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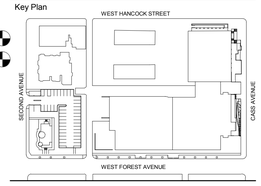
Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GENERAL SECTIONS AND DETAILS SECTOR C

Project Number: 3995-001-00

Drawn By: FA

Scale: As indicated

Seal:

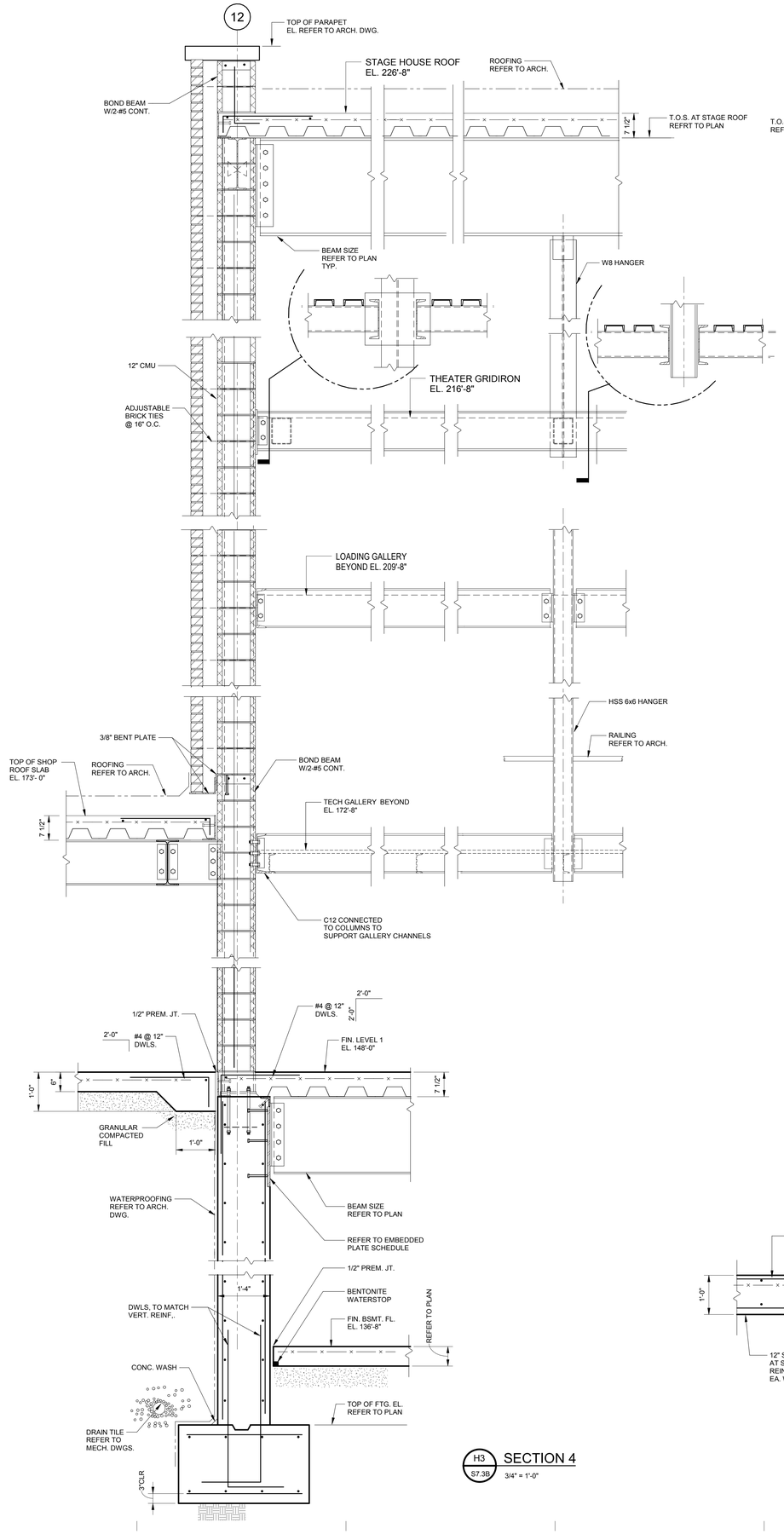
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

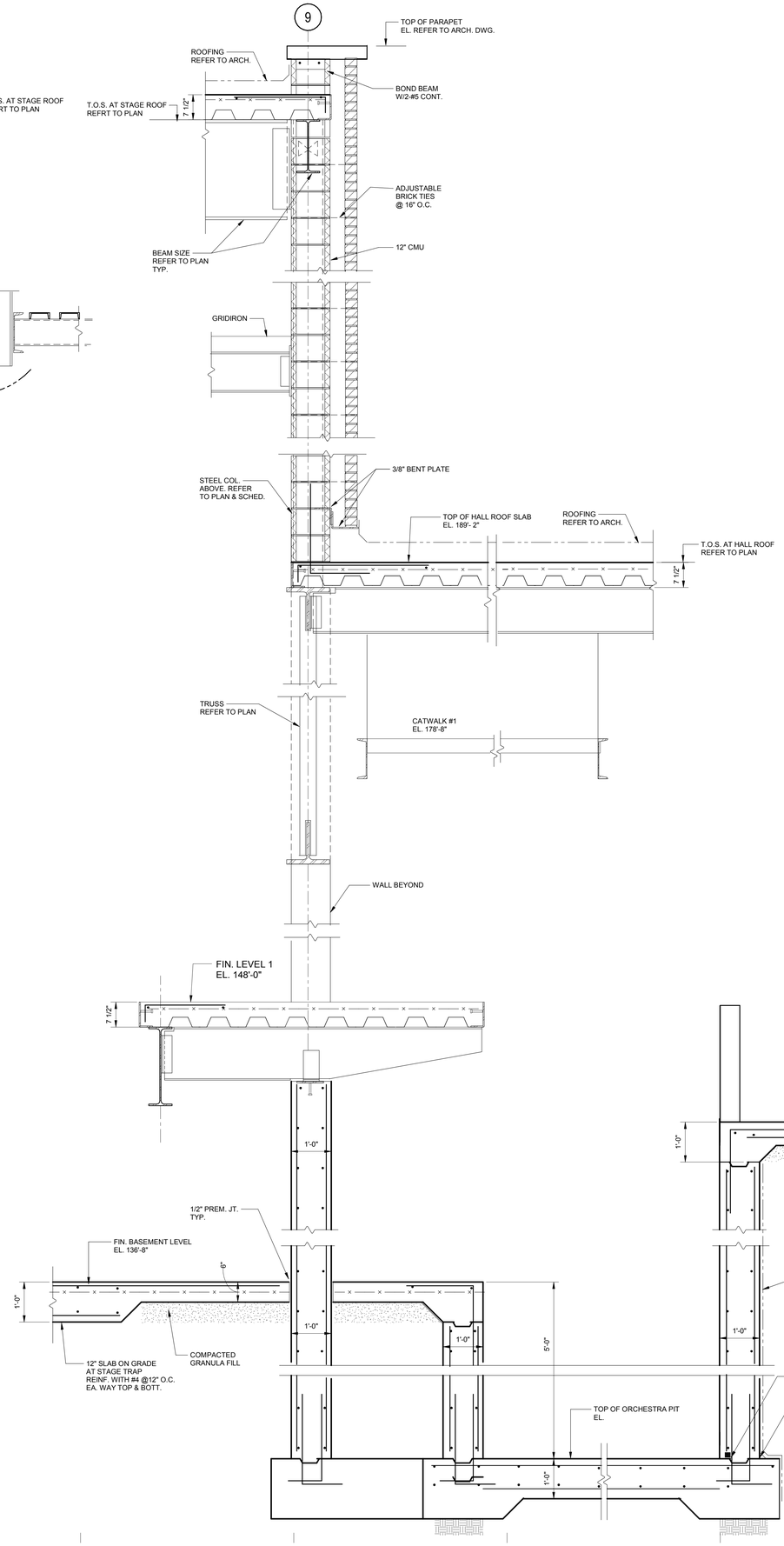
S7.2C

BIM 360://WSU Hilberry Gateway/S18 WSU Hilberry Gateway-R9004.rvt




H3 / S7.3B SECTION 4

3/4" = 1'-0"




H8 / S7.3B SECTION 3

3/4" = 1'-0"

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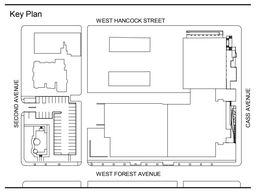
Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GENERAL SECTIONS AND DETAILS SECTOR B

Project Number: 3995-001-00

Drawn By: NB

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S7.3B

Sheet Size: 30" x 42"
Template Version

BIM 360://WSU Hilberry Gateway/S18 -WSU Hilberry Gateway-9604.rvt

Sheet Size: 30" x 42"
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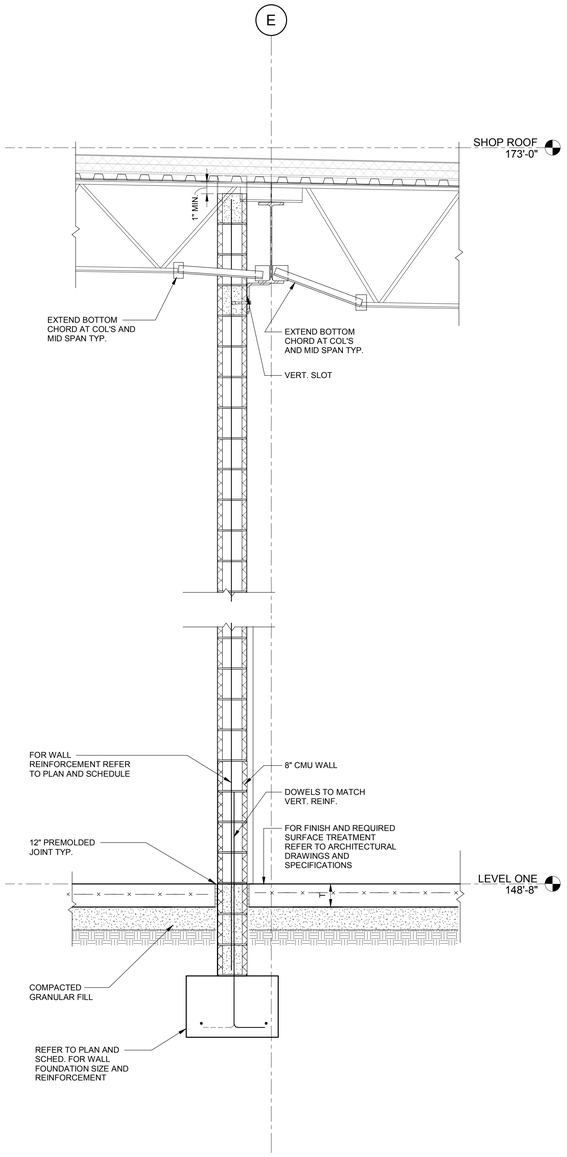
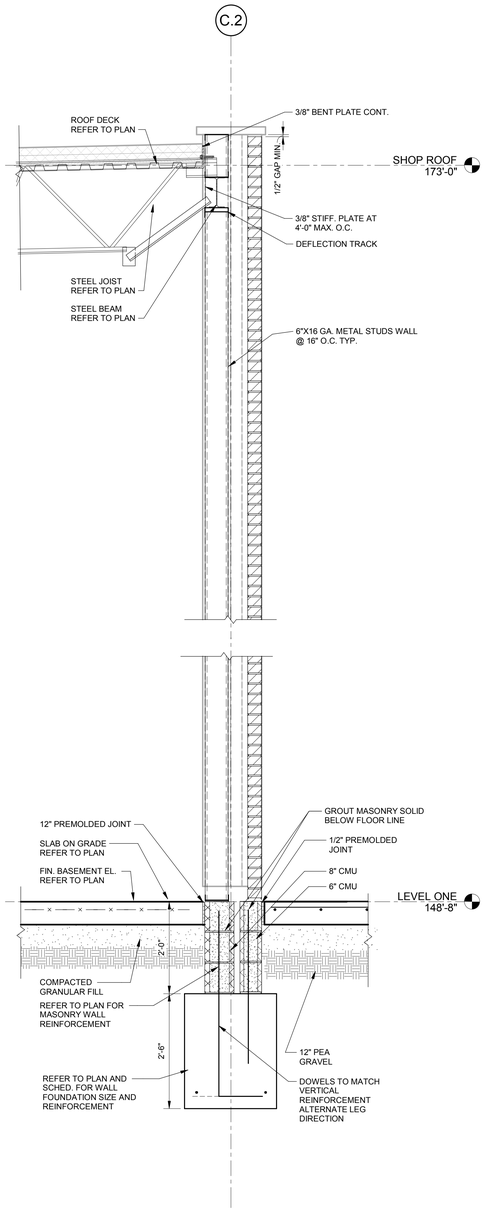
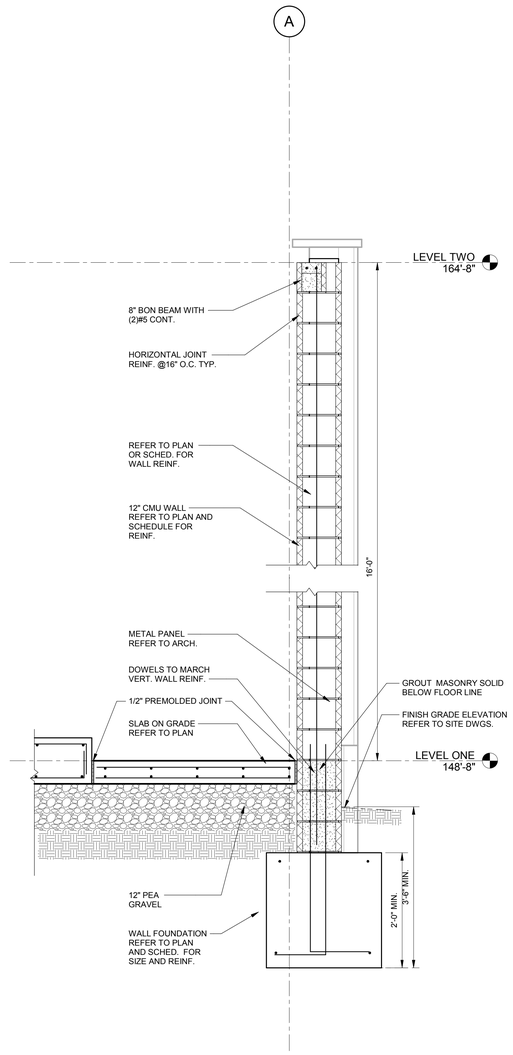


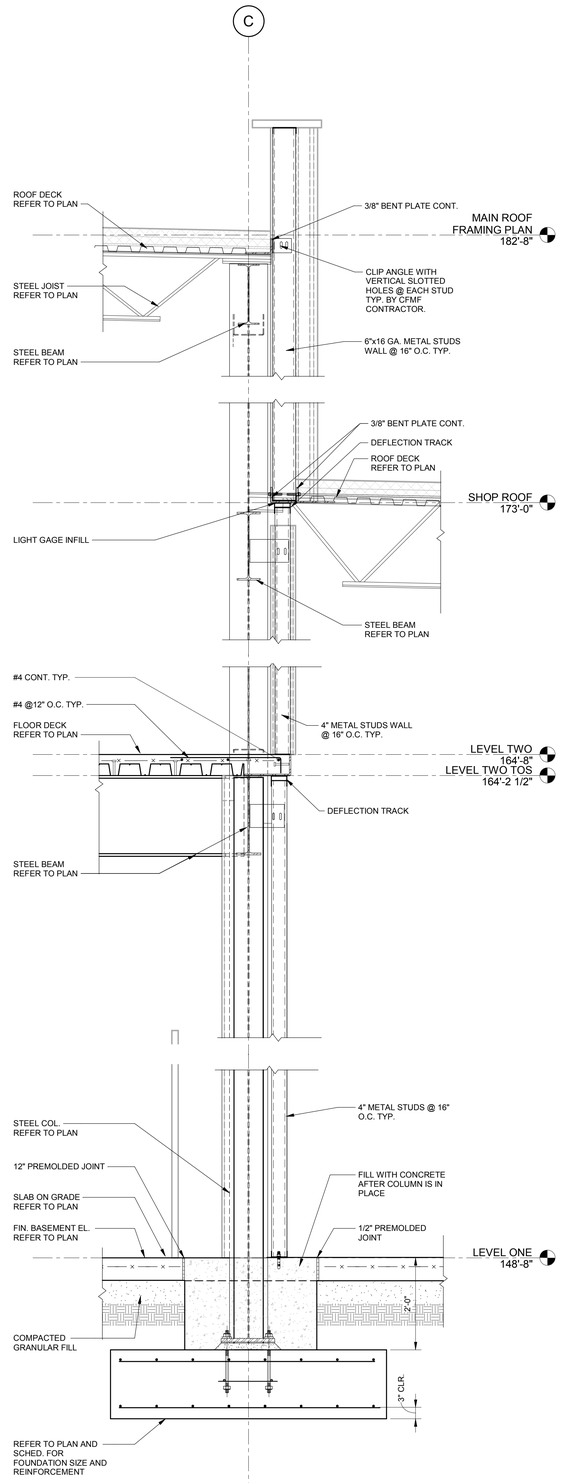

H1 S7.3C SECTION
3/4" = 1'-0"




H4 S7.3C SECTION
3/4" = 1'-0"




H6 S7.3C SECTION
3/4" = 1'-0"




H8 S7.3C SECTION
3/4" = 1'-0"

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WAYNE STATE UNIVERSITY

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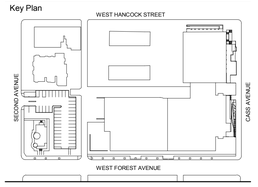


| | |
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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GENERAL SECTIONS AND DETAILS SECTOR C

Project Number: 3995-001-00

Drawn By: FA

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S7.3C

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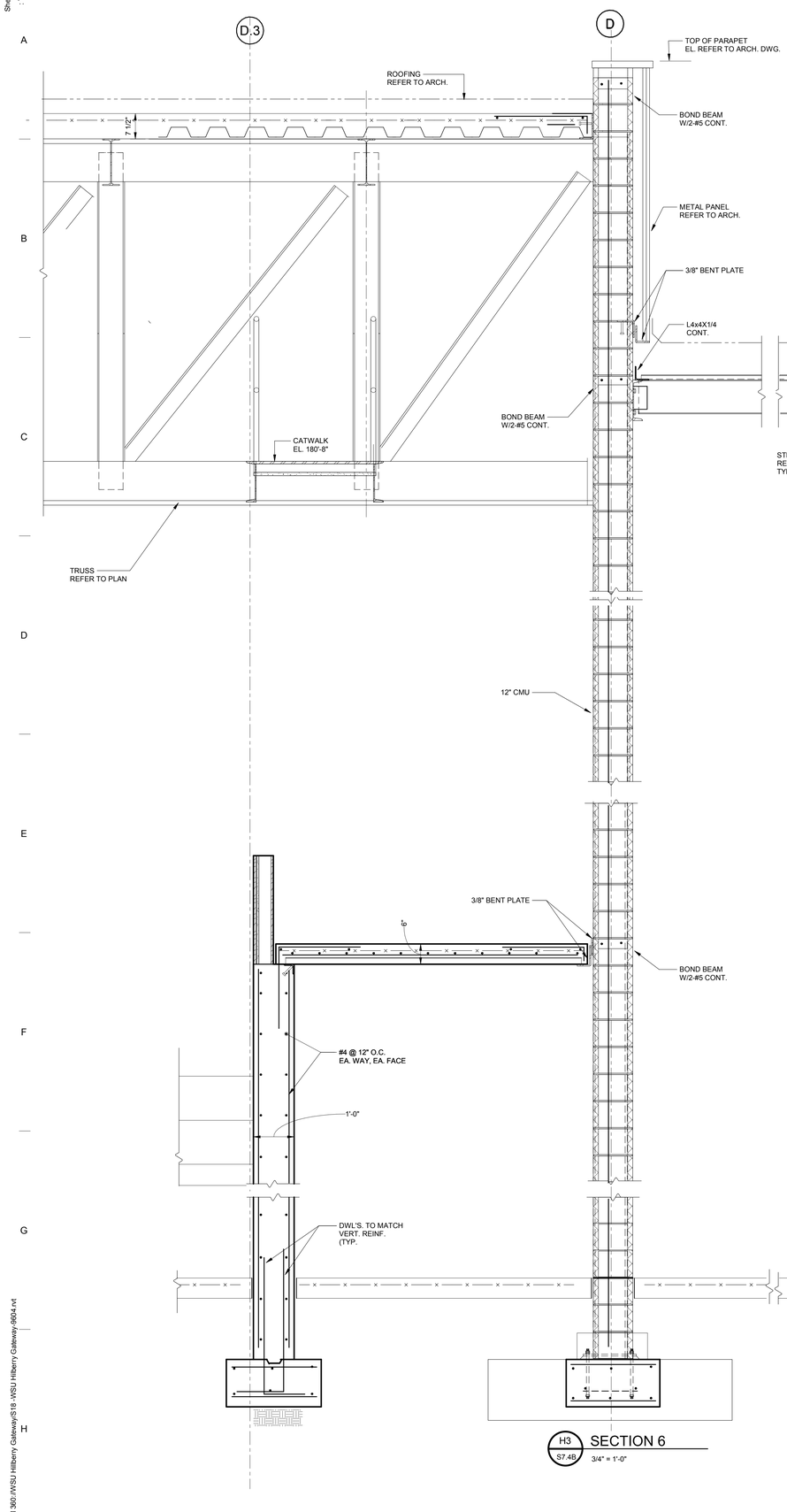
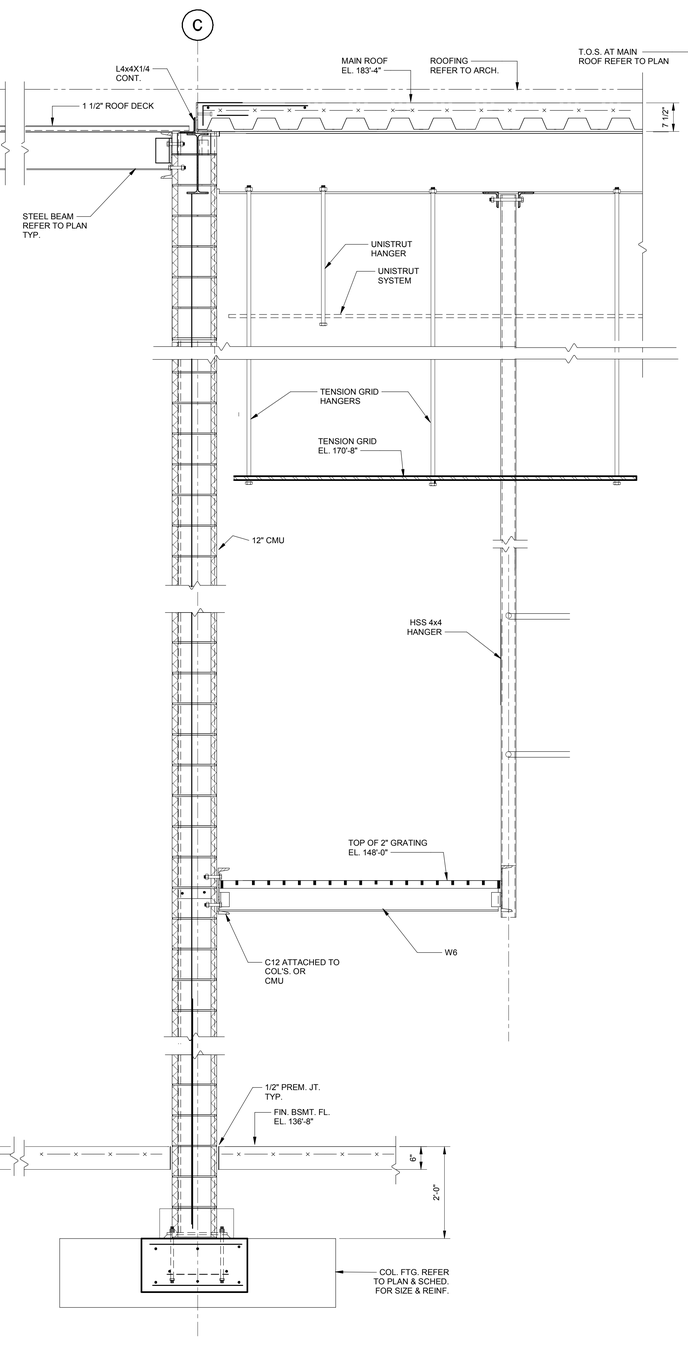
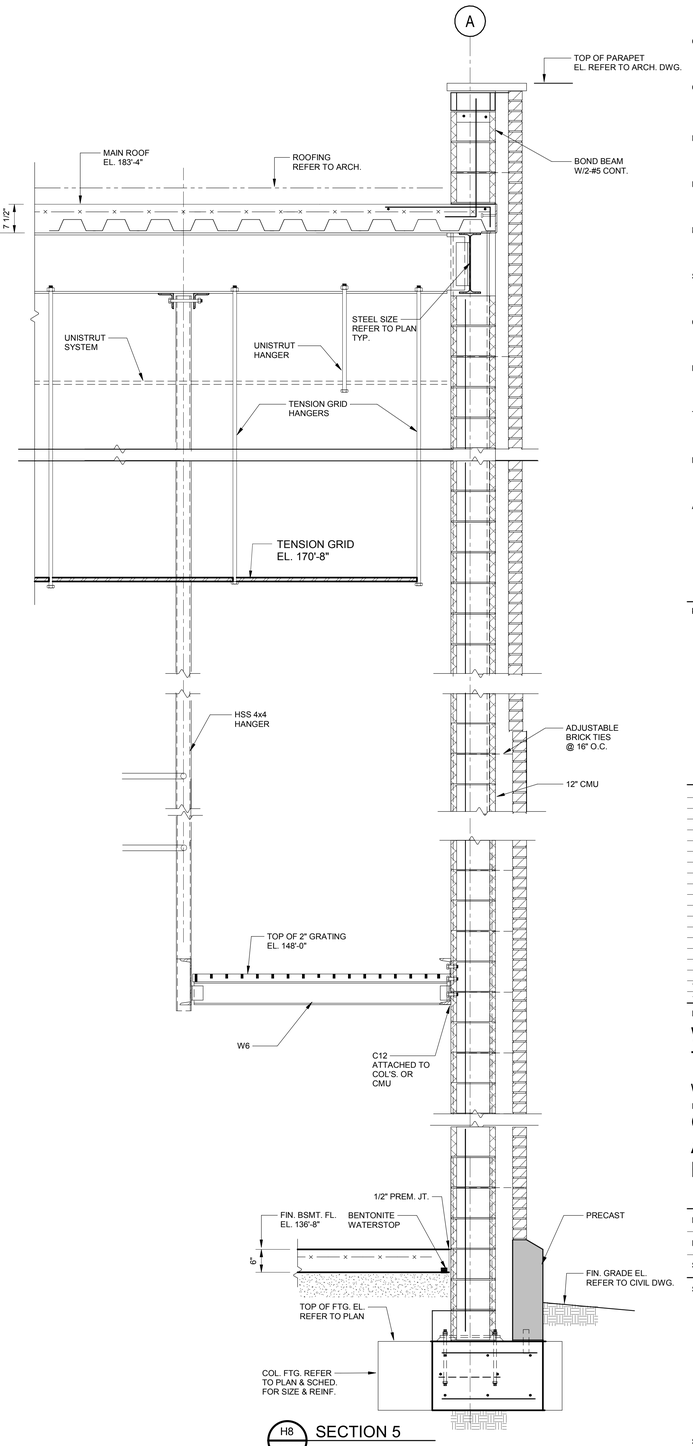



H3 S7.4B SECTION 6
3/4" = 1'-0"




H8 S7.4B SECTION 5
3/4" = 1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| Structural Engineer | DESAI / NASR Consulting Engineers Inc.<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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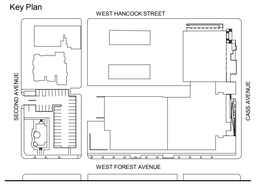
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

Key Plan

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Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

GENERAL SECTIONS AND DETAILS SECTOR B

Project Number: 3995-001-00

Drawn By: NB

Scale: As indicated

Seal:

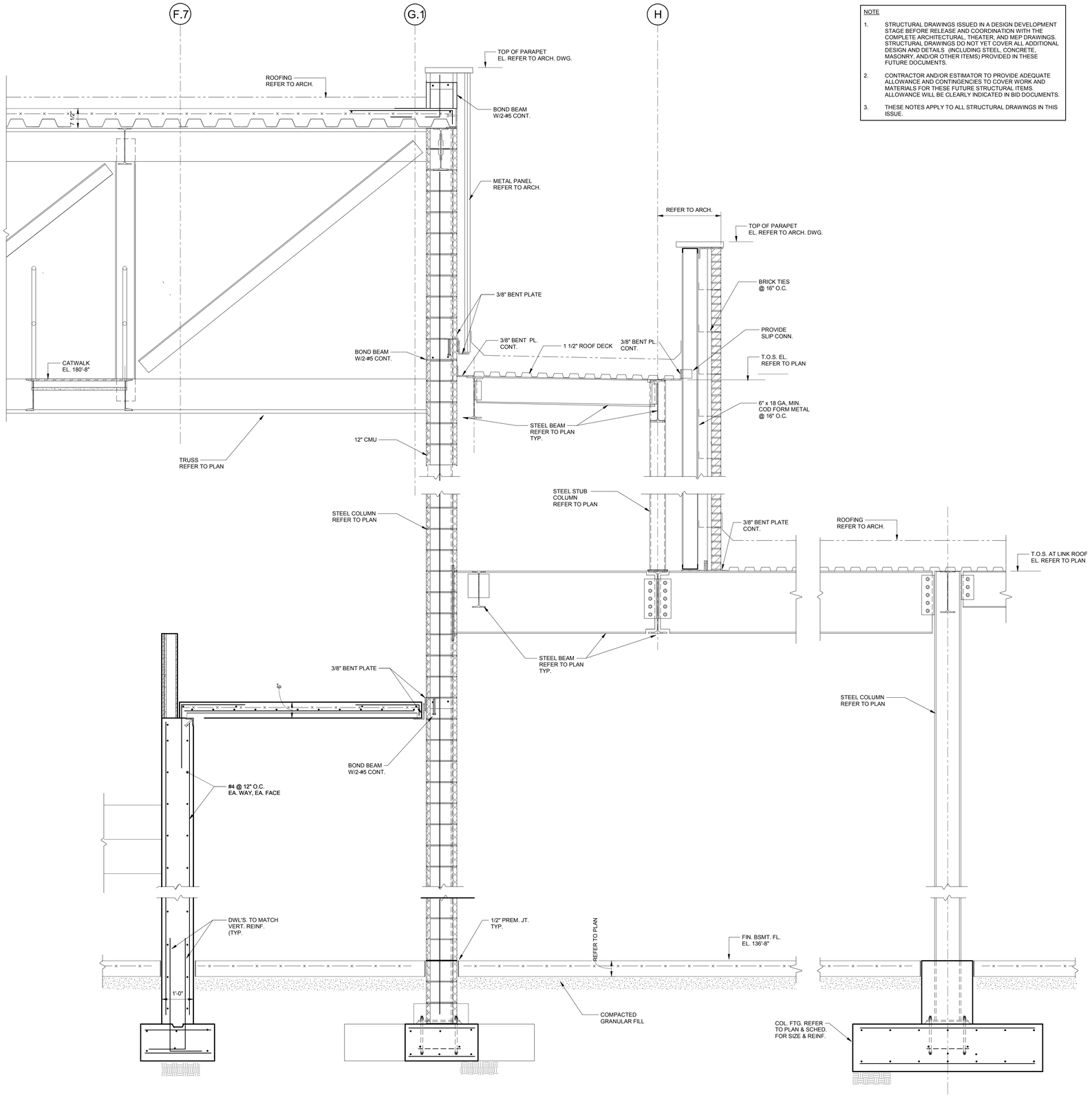
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

S7.4B

BIM 360://WSU Hilberry Gateway/518 -WSU Hilberry Gateway-9604.rvt




H5 / S7.5B SECTION 7
3/4" = 1'-0"

NOTE

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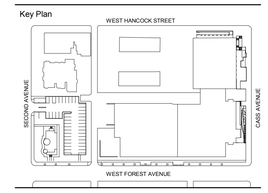
Key Plan

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Project

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WSU PROJECT NO. 189-178578

Drawing Title

GENERAL SECTIONS AND DETAILS SECTOR B

Project Number: 3995-001-00

Drawn By: NB

Scale: As indicated

Seal:

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Signature:

Drawing No:

S7.5B

Sheet Size: 30" x 42"
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Sheet Size: 30" x 42"
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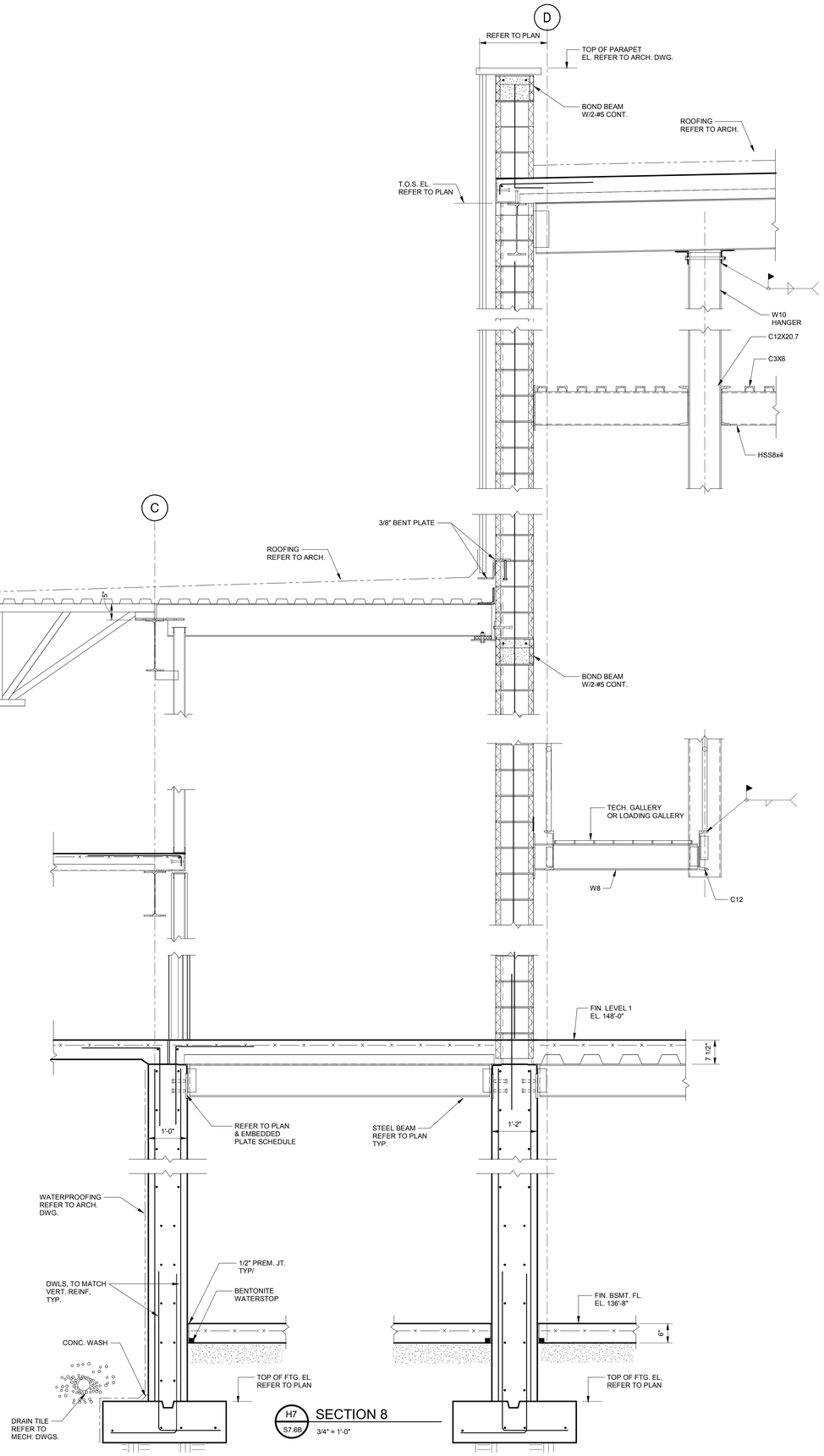


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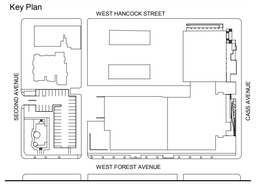
Key Plan

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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GENERAL SECTIONS AND DETAILS SECTOR B

Project Number: 3995-001-00

Drawn By: NB

Scale: As indicated

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Drawing No:

# S7.6B

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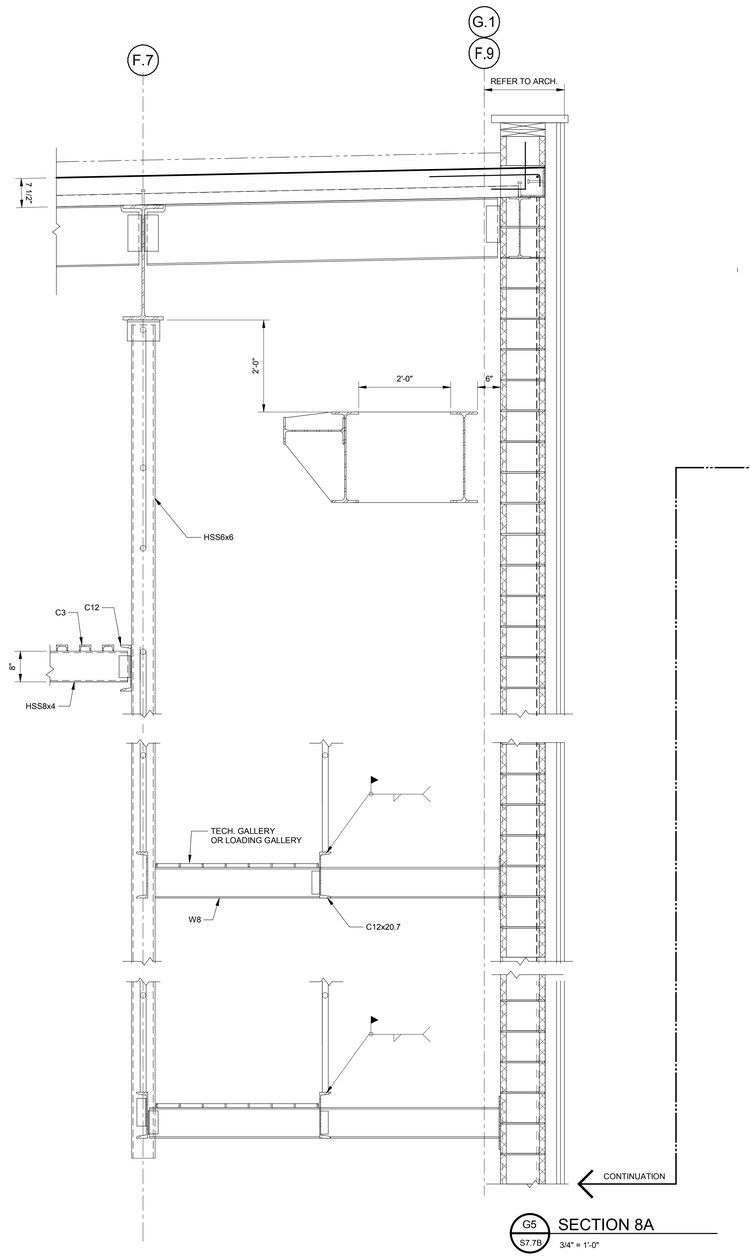
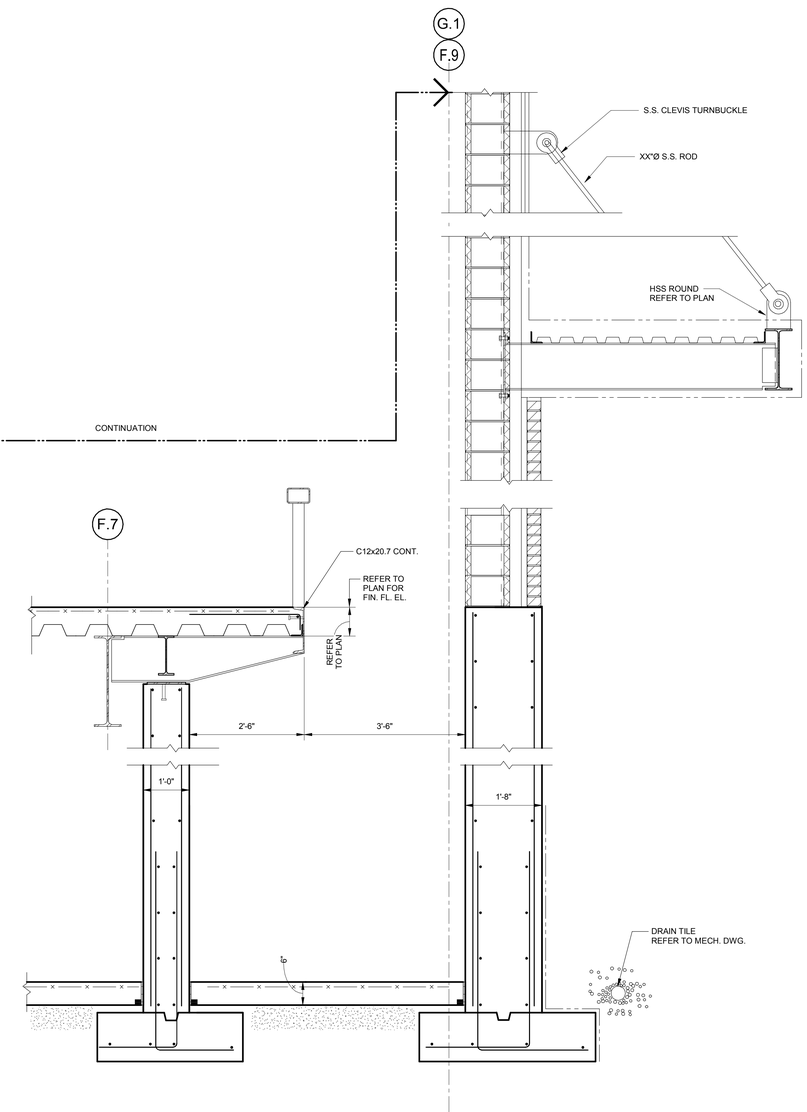



G5 / S7.7B SECTION 8A
3/4" = 1'-0"

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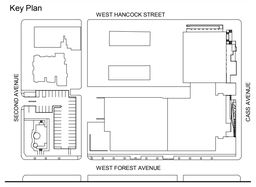


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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GENERAL SECTIONS AND DETAILS SECTOR B

Project Number: 3995-001-00

Drawn By: NB

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Drawing No:

# S7.7B


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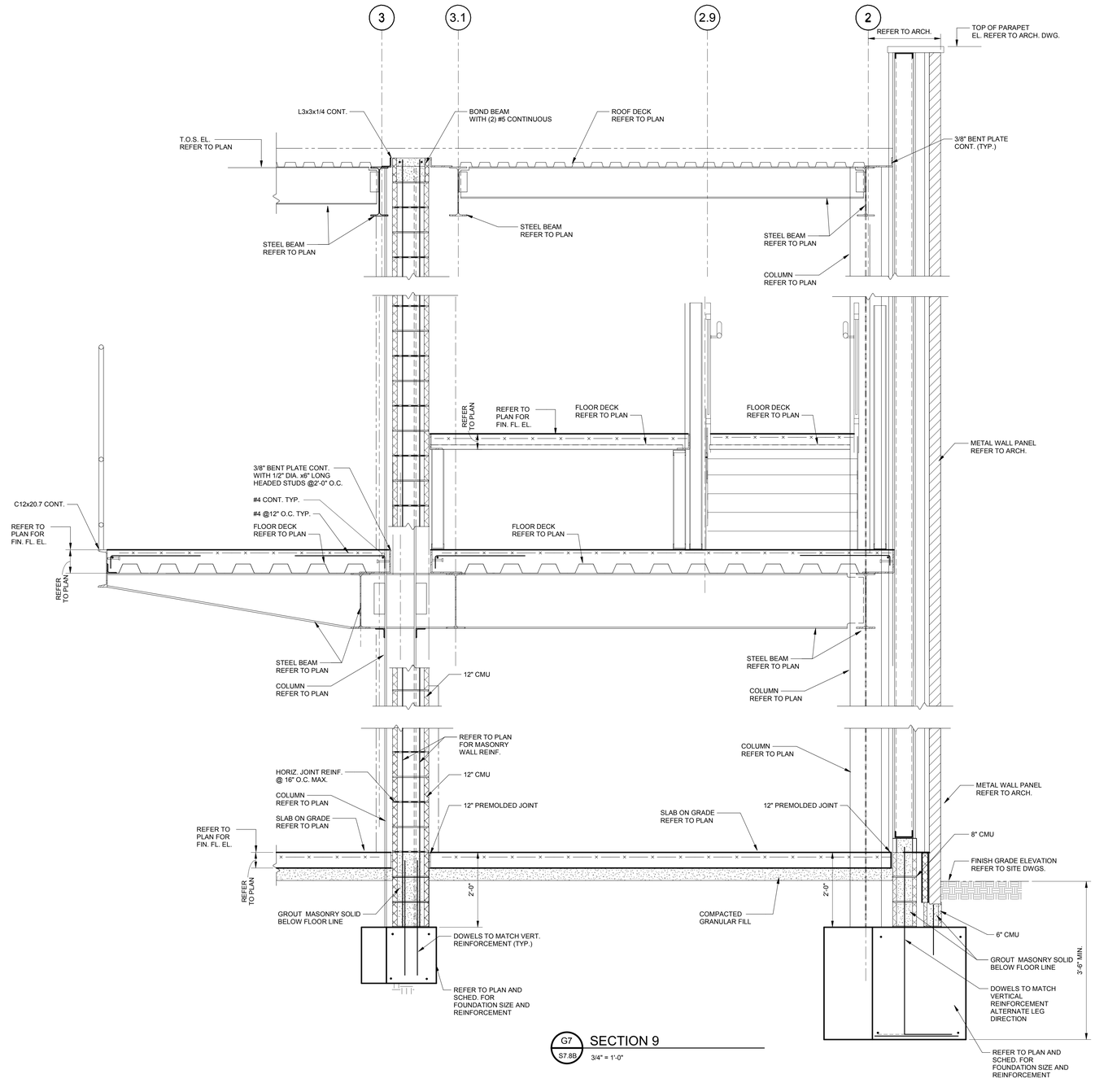


G7 / S7.8B SECTION 9
3/4" = 1'-0"

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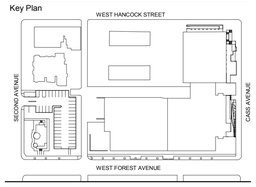
Key Plan

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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GENERAL SECTIONS AND DETAILS SECTOR B

Project Number: 3995-001-00

Drawn By: NB

Scale: As indicated

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Signature:

Drawing No:

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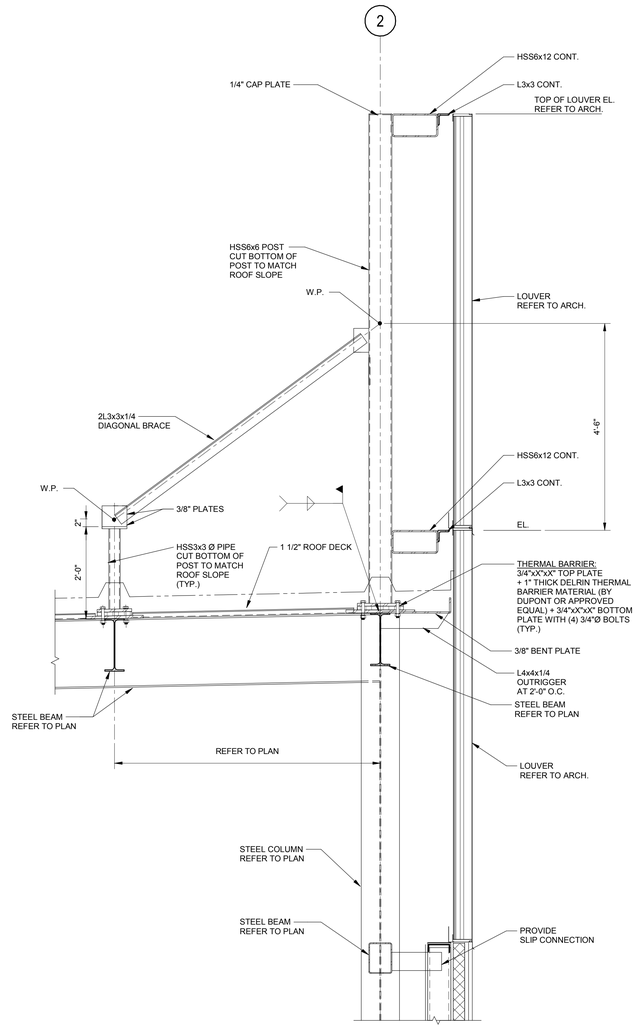
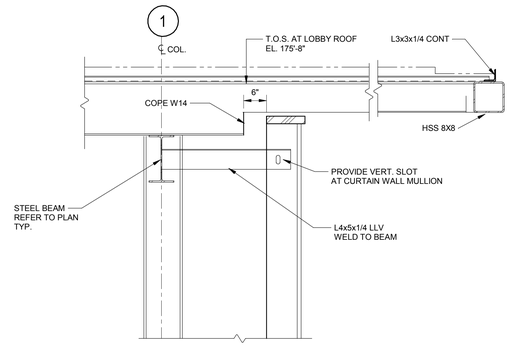
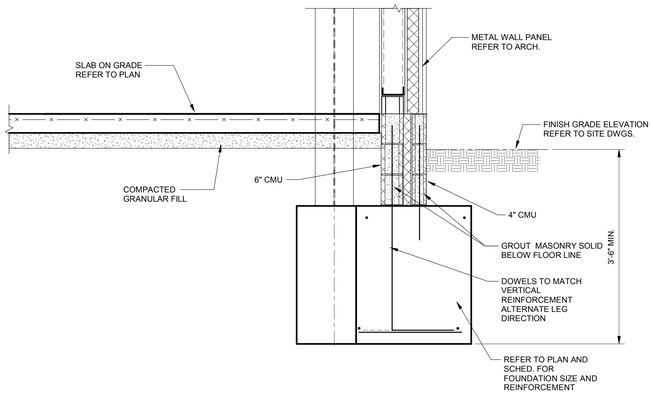
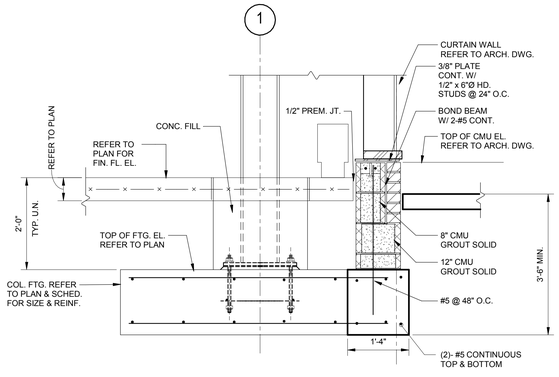



H5 / S7.9B SECTION 10
3/4" = 1'-0"




E8 / S7.9B SECTION 1 ROOF
3/4" = 1'-0"




G8 / S7.9B SECTION 1 FDN
3/4" = 1'-0"

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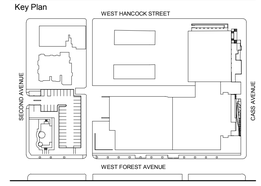


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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |
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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# GENERAL SECTIONS AND DETAILS SECTOR B

Project Number: 3995-001-00

Drawn By: NB

Scale: As indicated

Seal:

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Signature:

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# S7.9B

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Sheet Size: 30" x 42"
: Template Version

## ABBREVIATIONS

| | |
|---|---|
| **A** | |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AFMS | AIRFLOW MEASURING STATION |
| AHU | AIR HANDLING UNIT |
| ALT | ALTERNATE |
| AP | ACCESS PANEL(S) |
| APD | AIR PRESSURE DROP |
| ARCH | ARCHITECT(URAL) |
| **B** | |
| BAS | BUILDING AUTOMATION SYSTEM |
| BHP | BRAKE HORSE POWER |
| BLDG | BUILDING |
| BTUH | BRITISH THERMAL UNIT PER HOUR |
| BWV | BACK WATER VALVE |
| **C** | |
| CD | CONDENSATE |
| CFH | CUBIC FOOT PER HOUR |
| CFM | CUBIC FOOT PER MINUTE |
| CIP | CAST IRON PIPE |
| CLG | CEILING |
| CO | CARBON MONOXIDE |
| CO2 | CARBON DIOXIDE |
| COMB | COMBINATION |
| CONC | CONCRETE |
| COND | CONDENS(ATE) (ER) |
| CONN | CONNECTION |
| CONT | CONTINU(E) (OUS) (ATION) |
| CONTR | CONTRACT(OR) |
| CORR | CORRIDOR |
| **D** | |
| DB | DRY BULB |
| DDC | DIRECT DIGITAL CONTROL (PANEL) |
| DEG | DEGREE(S) |
| DET | DETAIL |
| DIFF | DIFFUSER |
| DMPR | DAMPER |
| DN | DOWN |
| DP | DIFFERENTIAL PRESSURE |
| DWG(S) | DRAWING(S) |
| **E** | |
| EA | EACH |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| ECM | ELECTRONICALLY COMMUTATED MOTOR |
| EFT | ENTERING FLUID TEMPERATURE |
| ELEC | ELECTRIC(AL) |
| EMER | EMERGENCY |
| ESP | EXTERNAL STATIC PRESSURE |
| EWT | ENTERING WATER TEMPERATURE |
| EXG | EXISTING |
| EXH | EXHAUST |
| EXT | EXTERIOR |
| **F** | |
| F | FAHRENHEIT |
| FDC | FIRE DEPT CONNECTION |
| FFE | FINISHED FLOOR ELEVATION |
| FLR | FLOOR |
| FLEX | FLEXIBLE |
| FPB | FAN POWERED VAV BOX |
| FPM | FEET PER MINUTE |
| F&T | FLOAT AND THERMOSTATIC (TRAP) |
| FT | FOOT, FEET |
| FTG | FOOTING |
| FTR | FINNED TUBE RADIATION |
| **G** | |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GEN | GENERATOR |
| GPH | GALLON(S) PER HOUR |
| GPM | GALLON(S) PER MINUTE |
| **H** | |
| HB | HOSE BIB |
| HP | HIGH PRESSURE |
| HP | HORSEPOWER |
| HTG | HEATING |
| HTR | HEATER |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| **I** | |
| ID | INSIDE DIAMETER/DIMENSION |
| IN | INCH(ES) |
| INSUL | INSULATION |
| INV | INVERT |
| ISOL | ISOLATOR |
| **L** | |
| LAT | LEAVING AIR TEMPERATURE |
| LBS/HR | POUNDS PER HOUR |
| LF | LINEAL FOOT, FEET |
| LFT | LEAVING FLUID TEMPERATURE |
| LVR | LOUVER |
| LWT | LEAVING WATER TEMPERATURE |
| **M** | |
| MAX | MAXIMUM |
| MBH | 1,000 BTUH |
| MECH | MECHANICAL(LY) |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MIN | MINUTE |
| MISC | MISCELLANEOUS |
| **N** | |
| NC | NOISE CRITERIA |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NTS | NOT TO SCALE |
| **O** | |
| OA | OUTSIDE AIR |
| OD | OUTSIDE DIAMETER/DIMENSION |
| **P** | |
| PD | PRESSURE DROP |
| PLBG | PLUMBING |
| PPM | PARTS PER MILLION |
| PRES | PRESSURE |
| PSI | POUNDS PER SQUARE INCH |
| PVC | POLYVINYL CHLORIDE |
| **R** | |
| R | RADIUS |
| RA | RETURN AIR |
| REG | REGISTER |
| REQD | REQUIRED |
| RH | RELATIVE HUMIDITY |
| RM | ROOM |
| RPM | REVOLUTIONS PER MINUTE |
| RPZ | REDUCED PRESSURE BACKFLOW PREVENTER |
| RTU | ROOFTOP UNIT |
| **S** | |
| SA | SUPPLY AIR |
| SF | SQUARE FEET |
| SHT | SHEET |
| SP | STATIC PRESSURE |
| SPEC(S) | SPECIFICATION(S) |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STRUC | STRUCTUR(E) (AL) |
| **T** | |
| T | THERMOSTAT |
| TCP | TEMPERATURE CONTROL PANEL |
| TEMP | TEMPERATURE |
| TMV | THERMOSTATIC MIXING VALVE |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| **U** | |
| UNO | UNLESS OTHERWISE NOTED |
| **V** | |
| VAV | VARIABLE AIR VOLUME |
| VENT | VENTILATION OR VENTILATOR |
| VERT | VERTICAL |
| VOL | VOLUME |
| VSD | VARIABLE SPEED DRIVE (MOTOR CONTROLLER) |
| /VFD | |
| VTR | VENT THROUGH ROOF |
| **W** | |
| W | WASTE |
| W/ | WITH |
| W/O | WITHOUT |
| WB | WET BULB |
| WC | WATER COLUMN |
| WG | WATER GAUGE |
| WH | WALL HYDRANT |
| WS | WASTE STACK |
| WTR | WATER |

NOTE:
REFER TO PIPING SYSTEM DESIGNATIONS, CONTROL DRAWINGS, AND EQUIPMENT SCHEDULES FOR ADDITIONAL ABBREVIATIONS.

## MECHANICAL GENERAL NOTES

A. IN ALL AREAS WITH EXPOSED CEILINGS, SPECIAL CARE MUST BE TAKEN IN THE INSTALLATION OF PIPING AND ANY OTHER MECHANICAL / PLUMBING EQUIPMENT. LAYOUTS MUST BE ARRANGED TO COMPLIMENT THE AESTHETICS OF THE SPACE. REFER ALSO TO ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND COORDINATION REQUIREMENTS FOR FURTHER INFORMATION FOR AESTHETIC INTENTS AND PAINTING REQUIREMENTS IN EXPOSED AREAS.
B. CAREFULLY COORDINATE ALL PIPING, DUCTWORK, FIRE PROTECTION, EQUIPMENT, CONTROLS, SUPPORTS, ELECTRICAL, CABLE TRAY, AV DEVICES, ETC. TO SUPPORT ACCESS, SERVICE, INSTALLATION AND MAINTENANCE OF EQUIPMENT, DEVICES, VALVES, DAMPERS, CONTROLS, ETC. REFER ALSO TO COORDINATION REQUIREMENTS IN DRAWINGS AND SPECIFICATIONS.
C. DUCTWORK, HYDRONIC PIPING SHALL BE INSULATED TO AT LEAST MINIMUM INSULATION LEVELS REQUIRED IN THE MOST CURRENT ENERGY CODE AT THE TIME OF THE BIDDING.
D. PROVIDE AND EXTEND CONDENSATE DRAIN PIPING FROM ALL EQUIPMENT WITH CONDENSATE CONNECTIONS TO NEAREST SINK P-TRAP WITH WYE FITTING, NEAREST JANITOR CLOSET, OR FLOOR DRAIN. PROVIDE ACCESS COVER UNDER SINK FOR ACCESS. ROUTE ALL PIPING SO AS TO NOT INTERFERE WITH JANITOR CLOSET OR FLOOR DRAIN. SLOPE CONDENSATE PIPING AT MIN. 1/4" PER 1'-0".
E. ACCESS PANELS ARE INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ANY EQUIPMENT, VALVES, FIELD DEVICES, ETC. NEEDING AN ACCESS PANEL NOT INDICATED ON THE DRAWINGS SHALL ALSO BE PROVIDED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL OF PANEL SIZE, DETAIL, AND PANEL LOCATION PRIOR TO INSTALLATION OF ITEM REQUIRING ACCESS. PROVIDE AN ALLOWANCE OF 20 ACCESS PANELS IN ADDITION TO THOSE SHOWN.
F. MOUNTING HEIGHTS OF ANY WALL DEVICES REQUIRE FINAL LOCATION AND ELEVATION COORDINATED WITH ARCHITECTURE. REFER ALSO TO INTERIOR ELEVATIONS AND FURNITURE PLANS FOR DETAILS.
G. ALL MECHANICAL PIPING AND DUCTWORK SHALL HAVE SPRING ISOLATORS IN MECHANICAL ROOM.
H. WHERE CONNECTING TO EXISTING SYSTEMS OR RECONFIGURING EXISTING SYSTEMS, MEASURE AND DOCUMENT PERFORMANCE OF IMPACTED SYSTEMS AT COMPLETION WORK AND BALANCE / ADJUST PERFORMANCE TO MEET CONDITIONS PRESENT PRIOR TO WORK.
I. REFER TO ARCHITECTURAL PLANS AND OTHER AREAS OF THE PLANS AND SPECIFICATIONS FOR ACOUSTICALLY SENSITIVE SPACES, WALLS AND WALL DESIGNATIONS. REFER TO ARCHITECTURAL AND MECHANICAL SPECIFICATIONS AND DETAILS FOR APPROPRIATE PENETRATIONS.
J. ACOUSTICALLY SENSITIVE SPACES SHALL HAVE ALL MECHANICAL PENETRATIONS AND HANGERS ON EITHER SIDE OF THE PENETRATION TO MEET ACOUSTIC PENETRATION DETAILS. ALL JOINTS AND PENETRATIONS SHALL BE FILLED AND SEALED.
K. SEE ARCHITECTURE DRAWINGS FOR DIMENSIONS, CEILING HEIGHT, LOCATION OF PARTITIONS, ETC.
L. SMOKE DAMPERS SHALL BE LOCATED IN ALL DUCTS THAT CROSS WALL AND FLOOR ASSEMBLIES THAT ARE DESIGNED TO RESIST THE PASSAGE OF SMOKE. NOT ALL DAMPERS HAVE BEEN LOCATED OR TAGGED. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR FULL EXTENT OF ASSEMBLIES.
M. VALVES, FITTINGS, DEVICES, CONTROLS, DAMPERS, ETC. SHOWN ON PLANS, SCHEMATICS, DETAILS, CONTROL DIAGRAMS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND EACH INDICATE MINIMUM REQUIREMENTS. WHERE OVERLAP OR CONFLICTS/CONTRADICTIONS MAY OCCUR, FOLLOW THE MOST STRINGENT REQUIREMENTS AND NOTIFY THE ENGINEER FOR ANY RESOLUTION.
N. MOTORIZED DAMPERS ARE REQUIRED AT ALL DUCTWORK PENETRATIONS TO EXTERIOR AND TO INTAKE/RELIEF PLENUMS. DAMPERS SHALL BE INTERLOCKED WITH ASSOCIATED SYSTEM OPERATION. INSULATE DUCTWORK FROM EXTERIOR, THROUGH THE EXTERIOR PENETRATION TO DAMPER WITH A MIN OF 2" BOARD INSULATION.
O. DUCT LINER REQUIRED IN PLANS AND SPECIFICATIONS SHALL BE FIBER-FREE, CLOSED-CELL FOAM INSULATION IN ALL LOCATIONS EXCEPT IN ACOUSTIC TRANSFER AIR DUCTS, WHERE BONDED, GLASS MINERAL-FIBER WOOL IS ACCEPTABLE.
P. CONTROL VALVES AND OPERATORS FOR HEATING COILS, COOLING COILS AND OUTSIDE AIR DAMPERS SHALL BE PNEUMATIC.

## MECHANICAL DEMOLITION NOTES

1. VERIFY EXISTING CONDITIONS AND DIMENSIONS. COORDINATE THE EXTENT OF DEMOLITION WORK AND EXISTING WORK TO REMAIN WITH NEW FLOOR PLAN AND PROJECT SITE PRIOR TO PRICING, FABRICATION, AND INSTALLATION. NOTIFY ENGINEER OF ANY CONFLICTS IMMEDIATELY.
2. WHERE WALLS OR PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE ENTIRE WALL OR PARTITIONS AS WELL AS DUCTS, PIPING, CONDUITS, AND OTHER ELEMENTS IN OR ON THEM WHICH MAY OR MAY NOT BE SPECIFICALLY IDENTIFIED, UNLESS OTHERWISE NOTED. COORDINATE WITH OWNER ALL EQUIPMENT TO BE SALVAGED.
3. REFER TO ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
4. REPAIR / PATCH OPENINGS IN WALLS, PARTITIONS, FLOORS, AND CEILINGS THAT ARE EXISTING OR WHERE DEMOLITION OCCURS TO MATCH EXISTING ADJACENT FINISH SURFACE. MAINTAIN CODE AND FIRE RATING REQUIREMENTS.
5. AVOID DISRUPTION TO ADJACENT FLOORS / AREAS AS MUCH AS POSSIBLE. KEEP NOISE TO A LEVEL ACCEPTABLE TO THE OWNER BY SCHEDULING EXCESSIVE NOISE TASKS WITH OWNER. ALL SAW-CUTTING AND NOISE / VIBRATION PRODUCING CONSTRUCTION TO BE SCHEDULED WITH OWNER AS NOT TO INTERFERE WITH BUILDING OPERATIONS. THIS MAY REQUIRE AFTER HOURS WORK.
6. ALL SHUTDOWNS OF MECHANICAL, SPRINKLER, FIRE ALARM, AND / OR ELECTRICAL SYSTEMS SHALL BE COORDINATED WITH OWNER AND MAY OCCUR DURING NON-BUSINESS HOURS.
7. ALL MECHANICAL ITEMS INDICATED TO BE REMOVED FROM BUILDING SHALL BE RETURNED TO OWNER, UNLESS DIRECTED OTHERWISE.
8. CAP, SEAL, AND INSULATE PIPING AND DUCTWORK IMPACTED BY SCOPE OF WORK.
9. WHERE CONNECTING TO EXISTING SYSTEMS OR RECONFIGURING EXISTING SYSTEMS, MEASURE AND DOCUMENT PERFORMANCE OF SYSTEMS PRIOR TO WORK.
10. REFER TO ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR ADDITIOANL DEMOLITION NOTES.

## GENERAL SHEET ANNOTATIONS

DIFFUSER, REGISTER AND GRILLE IDENTIFICATION
QUANTITY (IF MORE THAN ONE)
TYPE
NECK OR CONNECTION SIZE
(2)R1:24x12
400 CFM
AIR VOLUME (EACH)

AIR TERMINAL UNIT
VAV (VARIABLE AIR VOLUME UNIT)
X
XXX
VAV UNIT NUMBER
AHU NUMBER

EQUIPMENT
EQUIPMENT TAG
XX - X
EQUIPMENT TYPE

FIN TUBE
FIN TUBE TAG
FTR-X: 5'-0"
3.0 MBH
FIN TUBE LENGTH
FIN TUBE CAPACITY

SECTION SYMBOL
SECTION NUMBER
DET
SHT
SHEET LOCATION

CALLOUT SYMBOL
CALLOUT NUMBER
DET
SHT
SHEET LOCATION

3D VIEW ISOMETRIC SYMBOL
3D VIEW NUMBER
DET
SHT
SHEET LOCATION

## DAMPER SYMBOLS

VOLUME DAMPER
BACKDRAFT DAMPER (BD)
MOTORIZED DAMPER (M)
SMOKE DAMPER (S 1)
FIRE DAMPER (F 1)
SMOKE/FIRE DAMPER (FS 1)

NOTE:
CONTRACTOR SHALL COORDINATE LOCATION OF ACTUATOR AND ACCESS WITH PROJECT AND CODE REQUIREMENTS BASED ON DESIGN DOCUMENTS AND FIELD CONDITIONS.

## THERMAL DESIGN CONDITIONS

OUTDOOR DESIGN CONDITIONS
- WINTER OUTDOOR: 3° F
- SUMMER OUTDOOR: 95°F DB / 75°F WB

INDOOR DESIGN CONDITIONS
- THEATER & THEATER STUDIO
  SUMMER: 75° F, 50% RH
  WINTER: 70° F
- VALADE HALL & PIANO STORAGE
  SUMMER: 75° F, 50% RH
  WINTER: 72° F, 35% RH
- GENERAL PUBLIC AREAS
  SUMMER: 76° F, 50% RH
  WINTER: 70° F
- COMMUNICATION CLOSET:
  SUMMER: 76° F, 50% RH
  WINTER: 60° F
- AV & DIMMER ROOMS:
  SUMMER: 76° F, 50% RH
  WINTER: 70° F
- VESTIBULE & LOADING DOCK
  SUMMER: 80° F
  WINTER: 65° F
- MECHANICAL AND ELECTRICAL ROOMS:
  SUMMER: 80° F
  WINTER: 65° F

NOTE:
REFER TO ARCHITECTURAL SHEETS FOR APPLICABLE BUILDING CODES

## MECHANICAL DUCTWORK SYMBOLS

24x12 — RECTANGULAR SIZE FIRST DIMENSION SIDE SHOWN
24x12Ø — FLAT OVAL SIZE FIRST DIMENSION SIDE SHOWN
12Ø — CONCENTRIC TRANSITION RECTANGULAR, ROUND OR OVAL ROUND SIZE
CONCENTRIC TRANSITION RECTANGULAR, ROUND OR OVAL
ECCENTRIC TRANSITION RECTANGULAR, ROUND OR OVAL
TRANSITION, RECTANGULAR TO ROUND OR OVAL
UP — INCLINED RISE WITH RESPECT TO AIRFLOW RECTANGULAR, ROUND OR OVAL
DN — INCLINED DROP WITH RESPECT TO AIRFLOW RECTANGULAR, ROUND OR OVAL
ELBOW UP, RECTANGULAR SUPPLY OR OUTSIDE AIR
ELBOW DOWN, RECTANGULAR SUPPLY OR OUTSIDE AIR
ELBOW UP, RECTANGULAR RETURN, RELIEF
ELBOW DOWN, RECTANGULAR RETURN, RELIEF
ELBOW UP, RECTANGULAR EXHAUST
ELBOW DOWN, RECTANGULAR EXHAUST
ELBOW UP, ROUND (FLAT OVAL SIMILAR)
ELBOW DOWN, ROUND (FLAT OVAL SIMILAR)
SQUARE ELBOW W/ TURNING VANES, RECTANGULAR
SQUARE ELBOW W/O TURNING VANES, RECTANGULAR
SMOOTH RADIUS ELBOW WITH SPLITTER VANES RECTANGULAR
1.5 RADIUS ELBOW, RECTANGULAR
1.5 RADIUS ELBOW, ROUND OR FLAT OVAL
TAP-IN BRANCH W/ VOLUME DAMPER RECTANGULAR MAIN AND BRANCH
SPIN-IN STRAIGHT TAP W/ VOLUME DAMPER RECTANGULAR MAIN, ROUND OR FLAT OVAL BRANCH
SPIN-IN CONICAL TAP W/ VOLUME DAMPER RECTANGULAR MAIN, ROUND OR FLAT OVAL BRANCH
BRANCH, CONICAL LATERAL FITTING W/ VOLUME DAMPER ROUND OR FLAT OVAL MAIN AND BRANCH
BRANCH, CONICAL TEE FITTING WITH VOLUME DAMPER ROUND OR FLAT OVAL MAIN AND BRANCH
DUCT WITH LINER
DUCT WITH GYPSUM BOARD LAGGING, UNO
ROUND FLEXIBLE DUCT (DOUBLE LINE)
ROUND FLEXIBLE DUCT (SINGLE LINE)

## MECHANICAL PIPING SYMBOLS

ELBOW DOWN
ELBOW UP
TEE DOWN
TEE UP
CONNECTION
CONNECTION (TOP)
CONNECTION (BOTTOM)
FLOW DIRECTION
SHUT-OFF VALVE
BALANCING VALVE
AUTOMATIC FLOW CONTROL VALVE
VALVE IN VERTICAL PIPE
CHECK VALVE (FLOW DIRECTION INDICATED)
2-WAY MODULATING CONTROL VALVE
3-WAY MODULATING CONTROL VALVE
2-WAY, 2-POSITION CONTROL VALVE
3-WAY, 2-POSITION CONTROL VALVE
PRESSURE REDUCING VALVE
REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RELIEF OR SAFETY VALVE (ELEVATION)
RELIEF OR SAFETY VALVE (PLAN VIEW)
FLOW MEASURING DEVICE
STRAINER
STRAINER W/ BLOWDOWN VALVE
EXPANSION JOINT
FLEXIBLE CONNECTION
UNION
PIPE ANCHOR
PIPE GUIDE
AIR VENT
ECCENTRIC REDUCER
CONCENTRIC REDUCER
SENSOR WELL
TEST PLUG
THERMOMETER
P — PRESSURE GAUGE
T — TEMPERATURE SENSOR
PITCH PIPE DOWN
STEAM TRAP
DP — DIFFERENTIAL STATIC PRESSURE SENSOR
CS — CONDENSATE SENSOR
T — THERMOSTAT OR TEMP SENSOR
$CO_2$ — CARBON DIOXIDE SENSOR
SP — STATIC PRESSURE SENSOR
H — HUMIDISTAT / HUMIDITY SENSOR
S — CONTROL SENSOR
P — PRESSURE SENSOR
P — PRESSURE CONTROLLER AND MONITOR
O — OCCUPANCY SENSOR

## GENERAL MECHANICAL & PLUMBING SYMBOLS

CONNECT TO EXISTING
KEY NOTE
REVISION TRIANGLE
DATUM
BREAK SYMBOL
VARIABLE AIR VOLUME TERMINAL UNIT SHOWN WITH REQUIRED 3 DIAMETERS OF INLET DUCT AND ACCESS/SERVICE CLEARANCE
VARIABLE AIR VOLUME TERMINAL UNIT WITH HEATING COIL SHOWN WITH REQUIRED 3 DIAMETERS OF INLET DUCT AND ACCESS/SERVICE CLEARANCE
ROUND SUPPLY AIR DIFFUSER WITH ROUND NECK
CEILING SUPPLY AIR DIFFUSER (WITH BLANK OFF)
CEILING RETURN GRILLE/REGISTER
CEILING EXHAUST AIR GRILLE/REGISTER
LINEAR SLOT SUPPLY AIR DIFFUSER OR RETURN AIR GRILLE/REGISTER
SIDEWALL SUPPLY AIR OR RETURN AIR GRILLE/REGISTER RETURN, RELIEF OR TRANSFER AIRFLOW DIRECTION ARROW
SUPPLY OR OUTSIDE AIRFLOW DIRECTION ARROW
RETURN, RELIEF, OR EXHAUST AIRFLOW DIRECTION ARROW
DEMOLISH EXISTING DUCT, PIPE OR EQUIPMENT INCLUDING SUPPORTS, ACCESSORIES AND RELATED CONTROLS AND COMPONENTS
EXHAUST AIR DUCT UP TO EXHAUST FAN ON ROOF
RELIEF AIR OR EXHAUST AIR DUCT UP TO ROOF VENT
OUTSIDE AIR OR SUPPLY AIR DUCT UP TO ROOF VENT
PUMP
FAN
FIN TUBE - ACTIVE LENGTH ONLY
FIN TUBE - ACTIVE LENGTH AND ENCLOSURE

## MECHANICAL PIPING SYSTEMS

| | |
|---|---|
| HWS | HEATING WATER SUPPLY |
| HWR | HEATING WATER RETURN |
| CHWS | CHILLED WATER SUPPLY |
| CHWR | CHILLED WATER RETURN |
| RC | REFRIGERANT CIRCUIT (SUCTION & DISCHARGE) |
| CD | CONDENSATE DRAIN |
| MW | MAKE-UP WATER |
| PC | PUMPED CONDENSATE |
| SV | STEAM VENT |

| MECHANICAL SHEET LIST | |
|---|---|
| SHEET NUMBER | SHEET NAME |
| M0.0 | MECHANICAL GENERAL NOTES AND SYMBOLS |
| M2.0B | LOWER LEVEL HVAC - SECTOR B |
| M2.1A | LEVEL ONE HVAC - SECTOR A |
| M2.1B | LEVEL ONE HVAC - SECTOR B |
| M2.1C | LEVEL ONE HVAC - SECTOR C |
| M2.2A | LEVEL TWO HVAC - SECTOR A |
| M2.2B | LEVEL TWO HVAC - SECTOR B |
| M2.2C | LEVEL TWO HVAC - SECTOR C |
| M2.3B | TECH LEVEL HVAC - SECTOR B |
| M2.4 | ROOF PLAN OVERALL |
| M3.0B | LOWER LEVEL MECHANICAL PIPING - SECTOR B |
| M3.1B | LEVEL ONE MECHANICAL PIPING - SECTOR B |
| M3.1C | LEVEL ONE MECHANICAL PIPING - SECTOR C |
| M3.2B | LEVEL TWO MECHANICAL PIPING - SECTOR B |
| M3.2C | LEVEL TWO MECHANICAL PIPING - SECTOR C |

| MECHANICAL SHEET LIST | |
|---|---|
| SHEET NUMBER | SHEET NAME |
| M5.0 | MECHANICAL BUILDING SECTIONS |
| M6.0 | CHILLED WATER SYSTEM SCHEMATIC & CONTROLS |
| M6.1 | HEATING WATER SYSTEM SCHEMATIC & CONTROLS |
| M6.2 | VRF SYSTEM SCHEMATIC |
| M7.0 | MECHANICAL DETAILS |
| M7.1 | MECHANICAL DETAILS |
| M7.2 | MECHANICAL DETAILS |
| M7.3 | MECHANICAL DETAILS |
| M7.4 | MECHANICAL DETAILS |
| M7.10 | MECHANICAL AIR HANDLING UNIT DETAILS - BASE BID |
| M7.11 | MECHANICAL AIR HANDLING UNIT DETAILS - ALTERNATE |
| M8.0 | MECHANICAL SCHEDULES |
| M8.1 | MECHANICAL SCHEDULES |
| M8.2 | MECHANICAL SCHEDULES |

NOTES:
REFER ALSO TO EM8.0 & EM8.1 IN ELECTRICAL DRAWINGS FOR MORE INFORMATION

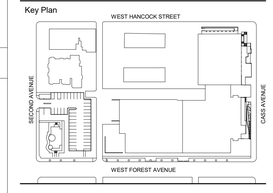

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Francisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |


Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# MECHANICAL GENERAL NOTES AND SYMBOLS

Project Number: 3995-001-00
Drawn By: BDP
Scale: NTS
Seal:

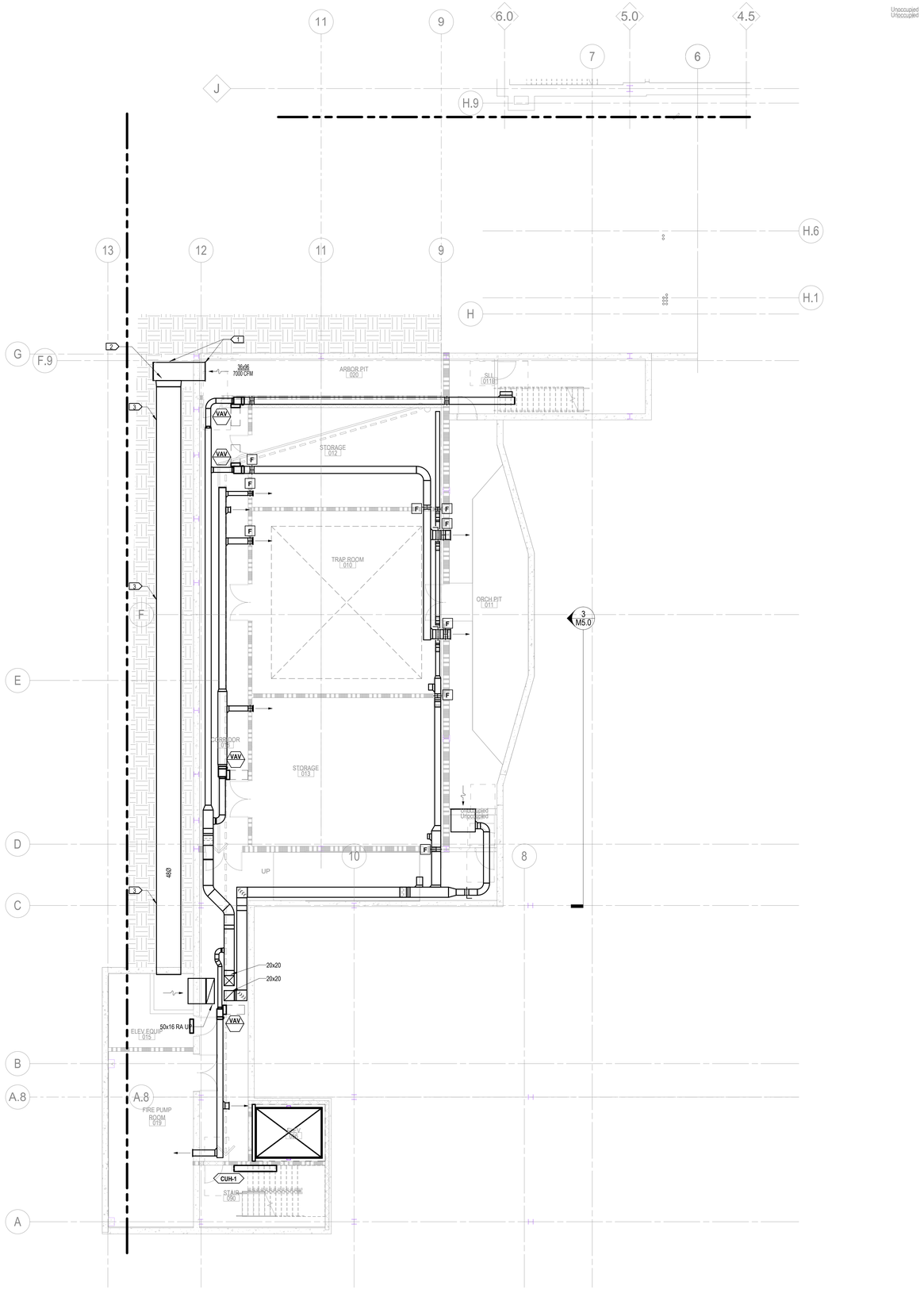
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
# M0.0

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 LOWER LEVEL PLAN - MECHANICAL
1/8" = 1'-0"

**NEW CONSTRUCTION HVAC GENERAL NOTES:**

CONSTRUCTION HVAC GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF DUCTWORK & ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
B. ALL DUCT CONNECTIONS TO VAV BOXES SHALL BE THE SIZE OF THE VAV BOX CONNECTION UNLESS NOTED OTHERWISE.
C. PROVIDE VOLUME DAMPERS AT EACH TAKEOFF ON SUPPLY, EXHAUST, AND RETURN GRILLES AND DIFFUSERS.
D. LOCATE ALL LOW RETURN / EXHAUST GRILLES MINIMUM 8" ABOVE FINISHED FLOOR FROM BOTTOM OF GRILLE UNLESS NOTED OTHERWISE. REVIEW AND APPROVE LOCATION PRIOR TO INSTALLATION.
E. ALL MECHANICAL PIPING AND DUCTWORK SHALL HAVE SPRING ISOLATORS IN MECHANICAL ROOMS.
F. ALL PIPING AND DUCTWORK CROSSING GRID 7 ON LEVEL ONE OR LEVEL TWO SHALL HAVE FLEXIBLE CONNECTIONS AND PROVISIONS TO ALL FOR 2" OF MOVEMENT IN ANY DIRECTION.
G. ALL SUPPLY AIR DUCTWORK DOWNSTREAM OF VAV BOXES SERVING ACOUSTICALLY SENSITIVE SPACES SHALL BE INTERNALLY LINED WITH 1" FIBER-FREE, CLOSED-CELL FOAM LINER.
H. MOTORIZED DAMPERS ARE REQUIRED AT ALL DUCTWORK PENETRATIONS TO EXTERIOR AND TO INTAKE AND RELIEF PLENUMS. DAMPERS SHALL BE INTERLOCKED WITH ASSOCIATED SYSTEM OPERATION. INSULATE RELIEF AND EXHAUST DUCTWORK FROM EXTERIOR, THROUGH THE EXTERIOR PENETRATION TO DAMPER WITH A MINIMUM OF 2" BOARD INSULATION.
I. PROVIDE AND EXTEND CONDENSATE DRAIN PIPING FROM ALL EQUIPMENT WITH CONDENSATE CONNECTIONS TO NEAREST CONNECTION TO STORM SYSTEM. ROUTE ALL PIPING SO AS TO NOT INTERFERE WITH JANITOR CLOSET OR FLOOR DRAIN.
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L. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT ALL DUCT CONNECTIONS TO AIR HANDLING UNITS, EXHAUST FANS, CABINET UNIT HEATERS, FAN COIL UNITS ETC.
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O. PROVIDE A MINIMUM ALLOWANCE OF 15 REMOTE BALANCING DAMPERS.
P. ALL BALANCING DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE ELECTRONICALLY ACTIVATED BALANCING DAMPERS. DAMPER CONTROL SHALL BE VIA RJ-11 TYPE TELEPHONE CABLE WITH WALL MOUNTED TERMINATION JACKS LOCATED IN MECHANICAL ROOMS AND JANITORS CLOSETS (UP TO 1000 FT CABLE LENGTH).
Q. ONE TEMPERATURE SENSOR SHALL BE PROVIDED FOR EACH VAV BOX, BUILT UP VAV BOX, TRANSFER FAN, SPLIT SYSTEM, AND COMPUTER ROOM UNIT. ADDITIONALLY ONE TEMPERATURE SENSOR SHALL BE PROVIDED FOR EACH ROOM THAT HAS HOT WATER FINTUBE. A TOTAL OF 4 TEMPERATURE SENSORS SHALL BE PROVIDED IN THE AUDIENCE CHAMBER.
R. GRILLE, REGISTER AND DIFFUSER TYPES ARE ANTICIPATED TO BE AS FOLLOWS (REFER TO GRILLES, REGISTERS, AND DIFFUSER SCHEDULE FOR MORE DETAIL INFORMATION):

- SUPPLY DIFFUSERS IN CORRIDORS WITH CEILINGS: LINEAR SLOT DIFFUSERS (D20, D30 OR D40)
- SUPPLY DIFFUSERS IN ALL OTHER SPACES WITH ACOUSTIC CEILING TILES: ADJUSTABLE PATTERN SQUARE CEILING DIFFUSERS (D2)
- SUPPLY REGISTERS IN SPACES WITHOUT CEILINGS: AREOBLADE SUPPLY REGISTERS (R5)
- RETURN, TRANSFER AND EXHAUST REGISTERS / GRILLES IN ACOUSTIC TILE CEILINGS: EGGCRATE REGISTERS (G1, R1)
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S. PROVIDE CO2 SENSORS IN STAGEHOUSE, AUDIENCE CHAMBER, STUDIO THEATER, MAIN LOBBY, BREAKROOM, DESIGN STUDIO, GREEN ROOM, PERFORMER LOUNGE, AND AN ALLOWANCE FOR 3 MORE SPACES
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U. PROVIDE SPACE PRESSURE SENSORS FOR EACH AHU, SCENE SHOP, AUDIENCE CHAMBER, AND AN ALLOWANCE FOR 1 MORE SPACE.
V. PROVIDE LOCAL OVERRIDE EXHAUST FAN CONTROLS WITH INDICATOR LIGHT FOR THE FOLLOWING EXHAUST SYSTEMS: DUST COLLECTOR, SCENE SHOP SLOT EXHAUST, DYE VAT ROOM, SPRAY BOOTH, CAFE AND AN ALLOWANCE FOR 2 MORE SYSTEMS.

**PLAN KEY NOTES:**

1. 36"W X 96"H X 96"D RETURN AIR PLENUM. PROVIDE 1" LINER ON VERTICAL FACES. PROVIDE BIRD SCREEN ON INLET OPENING.
2. PROVIDE BEVELED RADIUS EDGE CONNECTION TO RETURN AIR PLENUM.
3. UNDERGROUND RATED FIBERGLASS DUCTWORK.

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WAYNE STATE UNIVERSITY

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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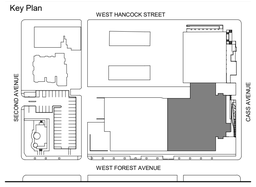
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LOWER LEVEL HVAC - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

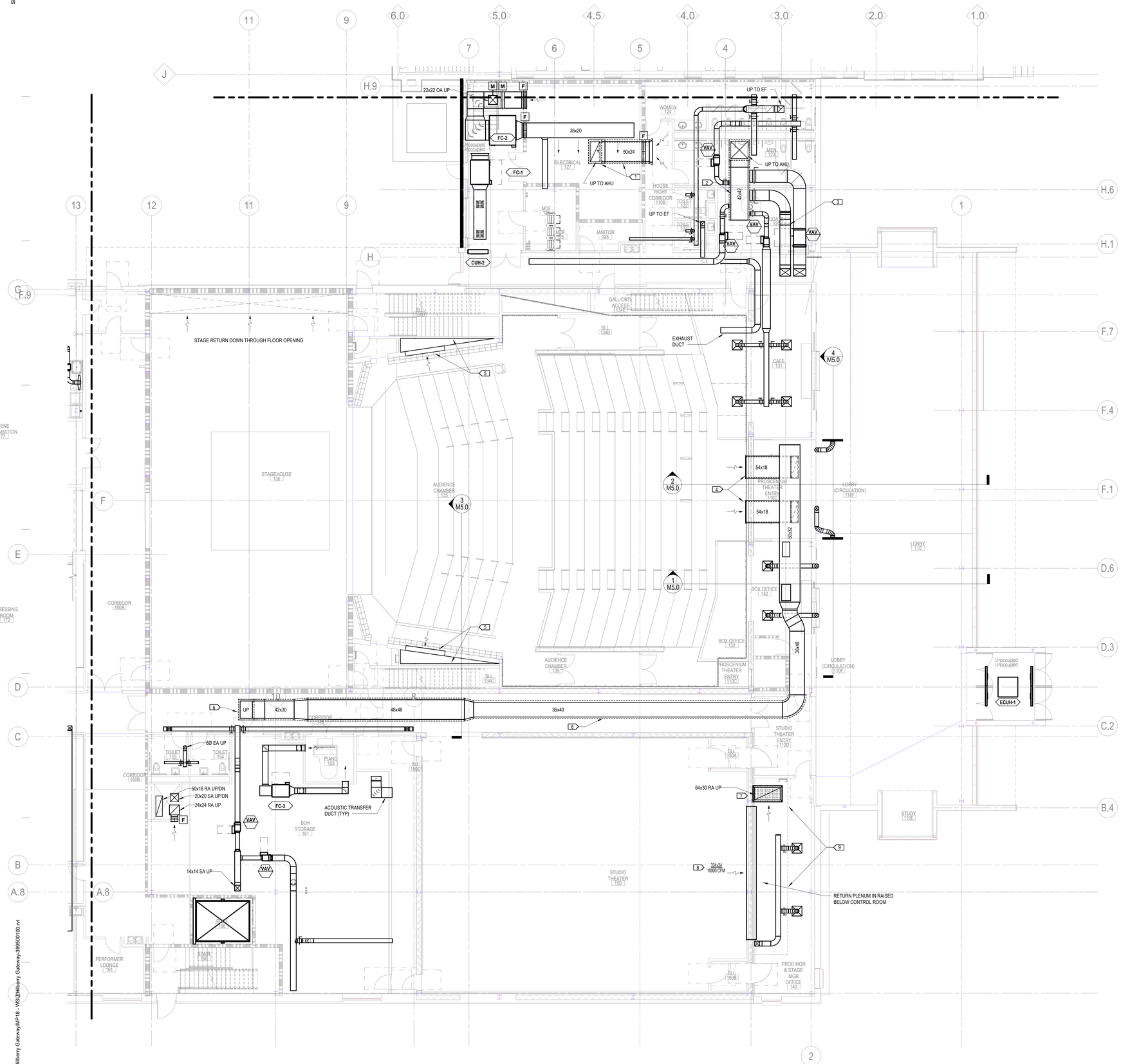
Signature:

Drawing No:

PLAN NORTH TRUE NORTH

# M2.0B

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001/00.rvt




2 LEVEL ONE HVAC PLAN - SECTOR B
1/8" = 1'-0"

## NEW CONSTRUCTION HVAC GENERAL NOTES:

CONSTRUCTION HVAC GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF DUCTWORK & ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
B. ALL DUCT CONNECTIONS TO VAV BOXES SHALL BE THE SIZE OF THE VAV BOX CONNECTION UNLESS NOTED OTHERWISE.
C. PROVIDE VOLUME DAMPERS AT EACH TAKEOFF ON SUPPLY, EXHAUST, AND RETURN GRILLES AND DIFFUSERS.
D. LOCATE ALL LOW RETURN / EXHAUST GRILLES MINIMUM 8" ABOVE FINISHED FLOOR FROM BOTTOM OF GRILLE UNLESS NOTED OTHERWISE. REVIEW AND APPROVE LOCATION PRIOR TO INSTALLATION.
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## PLAN KEY NOTES:

1. WRAP DUCTWORK WITH MASS LOADED VINYL AND INTERNALLY LINE.
2. WRAP DUCTWORK WITH MASS LOADED VINYL.
3. OFFSET DUCTWORK HIGH TO ALLOW SERVICE ACCESS FOR ADJ VAV BOX.
4. RETURN AIR DUCTWORK LOCATED IN BACK ROW OF THEATER CHAMBER, ABOVE THEATER ENTRY. PERFORATED RETURN AIR GRILLE BY ARCHITECTURE. LINE PLENUM WITH 1" MATTE BLACK LINER.
5. ARCHITECTURAL RETURN AIR PLENUM WITH LOW PERFORATED RETURN AIR GRILLE BY ARCHITECTURE. LINE RETURN AIR PLENUM WITH 1" MATTE BLACK LINER.
6. WRAP DUCTWORK WITH GYPSUM LAGGING AS SHOWN ON 13/M7.3
7. INLET SHALL HAVE EXPANDED 2" BEVELED INLET OPENING IN CONTROL ROOM RAISED FLOOR SYSTEM.
8. SEAMLESS RETURN AIR GRILLE. PROVIDE DUCT COLLAR AND/OR SEAL CONNECTION INTO RETURN AIR CAVITY BELOW CONTROL ROOM FLOOR. SEAL AROUND ALL STRUCTURAL AND WALL FRAMING ELEMENTS.
9. PROVIDE 1" MATTE BLACK FACED LINER ON ALL SIDES OF RETURN AIR PLENUM. REFER ALSO TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR RETURN AIR PLENUM BELOW CONTROL ROOM.

PLAN NORTH TRUE NORTH


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|---|---|
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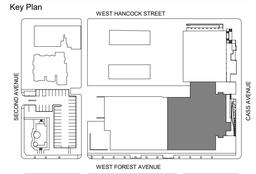
DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL ONE HVAC - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

M2.1B


Sheet Size: 30" x 42"
- Template Version

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Sheet Size: 30" x 42"
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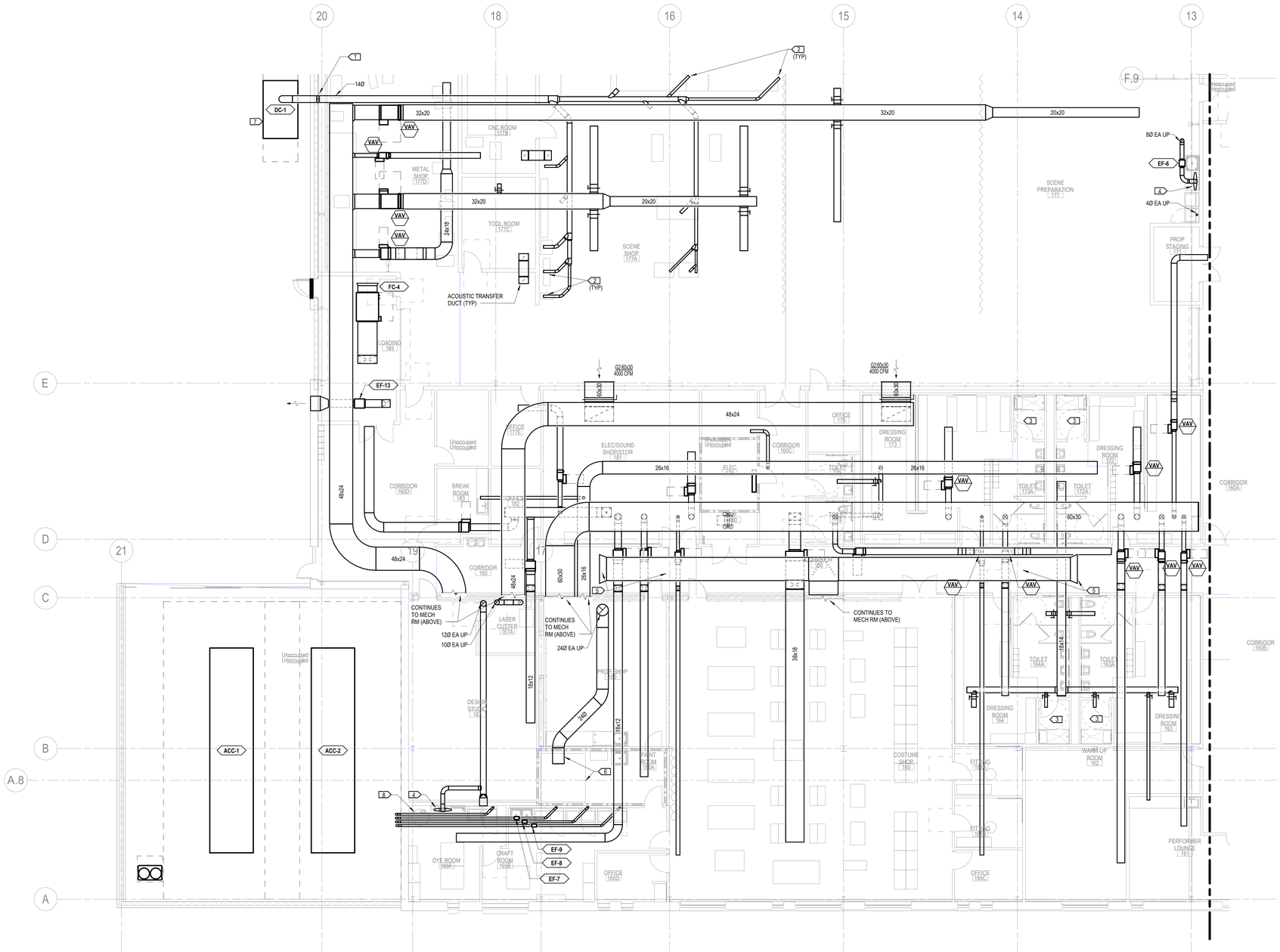


1 LEVEL ONE HVAC PLAN - SECTOR C
1/8" = 1'-0"

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**PLAN KEY NOTES:**

1. DUST COLLECTOR EXPLOSION ISOLATION VALVE.
2. DUST COLLECTOR EXHAUST DROP TO WOODSHOP EQUIPMENT (TYP). REFER TO ARCHITECTURAL PLANS FOR SPECIFIC WOODSHOP EQUIPMENT.
3. EXHAUST AIR DUCTS SERVING SHOWERS SHALL BE ALUMINUM UP TO EXHAUST AIR MAIN.
4. 36" WIDTH 1-SLOT EXHAUST HOOD.
5. INLET SHALL HAVE EXPANDED 2" BEVELED INLET OPENING. INTERNALLY LINE DUCTWORK FOR THE FIRST 10' AFTER INLET.
6. PRE-MANUFACTURER SPRAY BOOTH. ALL ASSOCIATED EXHAUST DUCTWORK SHALL BE WELDED.
7. FURNISH AN EXPLOSION SUPPRESSION SYSTEM, SINGLE ZONE MONITOR WITH PWER SUPPLY, UP TO 250FT OF CONNECTION WIRE, EXPLOSION PRESSURE DETECTOR, AND EXPLOSION SUPPRESSOR ON THE DUCT COLLECTOR SYSTEM.
8. PROVIDE COMPLETE VENT-A-KILN DYE VAT EXHAUST SYSTEM OR EQUIVALENT FOR AT DYE VAT. INCLUDE EXHAUST BLOWER, SWINGING WALL BRACKET, AND TIMER CONTROLS.


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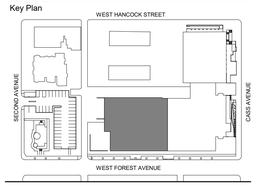
DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL ONE HVAC - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

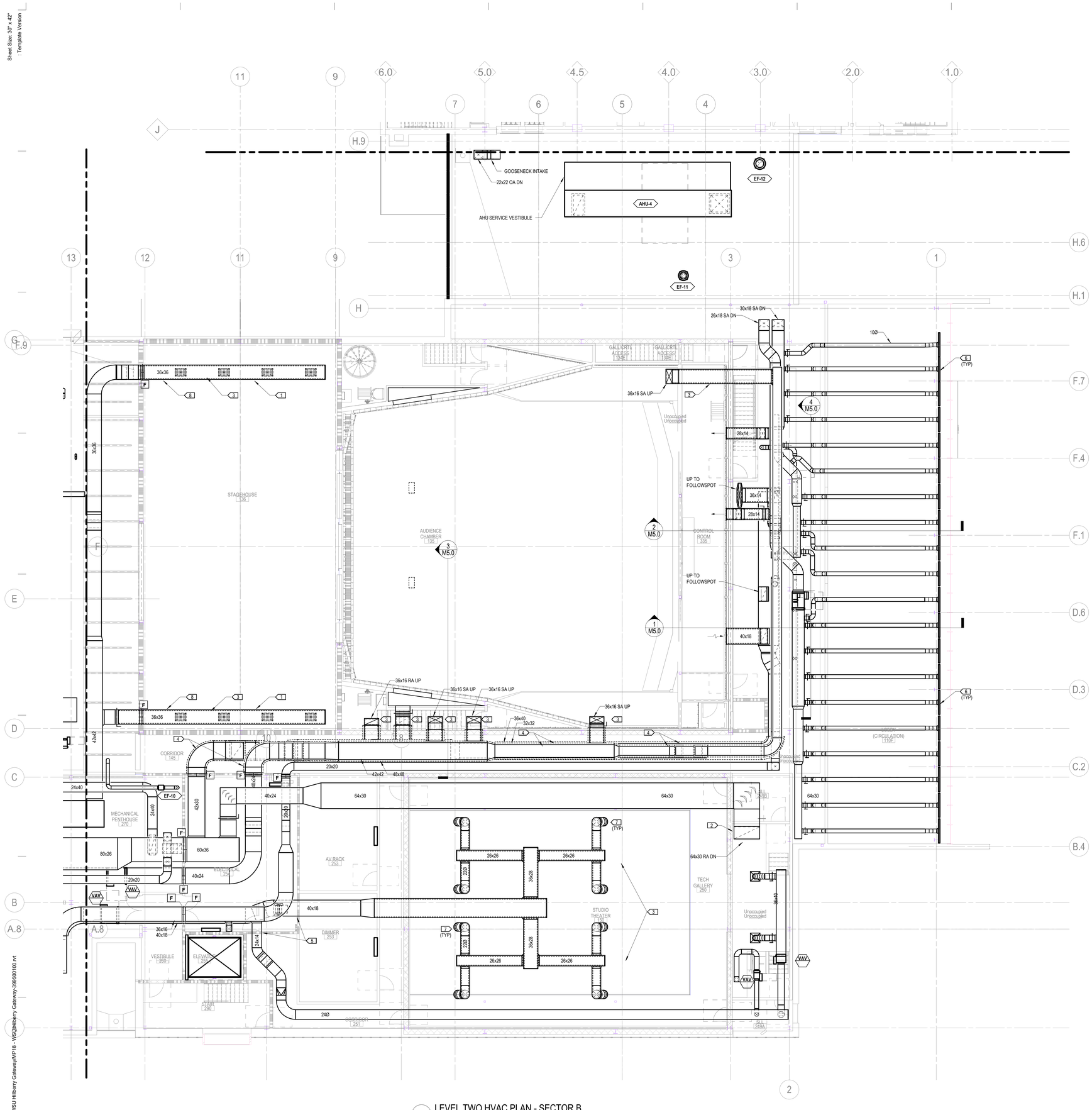
Signature:

Drawing No:

M2.1C

PLAN NORTH TRUE NORTH

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt




1 LEVEL TWO HVAC PLAN - SECTOR B
1/8" = 1'-0"

**NEW CONSTRUCTION HVAC GENERAL NOTES:**

CONSTRUCTION HVAC GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF DUCTWORK & ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
B. ALL DUCT CONNECTIONS TO VAV BOXES SHALL BE THE SIZE OF THE VAV BOX CONNECTION UNLESS NOTED OTHERWISE.
C. PROVIDE VOLUME DAMPERS AT EACH TAKEOFF ON SUPPLY, EXHAUST, AND RETURN GRILLES AND DIFFUSERS.
D. LOCATE ALL LOW RETURN / EXHAUST GRILLES MINIMUM 8" ABOVE FINISHED FLOOR FROM BOTTOM OF GRILLE UNLESS NOTED OTHERWISE. REVIEW AND APPROVE LOCATION PRIOR TO INSTALLATION.
E. ALL MECHANICAL PIPING AND DUCTWORK SHALL HAVE SPRING ISOLATORS IN MECHANICAL ROOMS.
F. ALL PIPING AND DUCTWORK CROSSING GRID 7 ON LEVEL ONE OR LEVEL TWO SHALL HAVE FLEXIBLE CONNECTIONS AND PROVISIONS TO ALL FOR 2" OF MOVEMENT IN ANY DIRECTION.
G. ALL SUPPLY AIR DUCTWORK DOWNSTREAM OF VAV BOXES SERVING ACOUSTICALLY SENSITIVE SPACES SHALL BE INTERNALLY LINED WITH 1" FIBER-FREE, CLOSED-CELL FOAM LINER.
H. MOTORIZED DAMPERS ARE REQUIRED AT ALL DUCTWORK PENETRATIONS TO EXTERIOR AND TO INTAKE AND RELIEF PLENUMS. DAMPERS SHALL BE INTERLOCKED WITH ASSOCIATED SYSTEM OPERATION. INSULATE RELIEF AND EXHAUST DUCTWORK FROM EXTERIOR, THROUGH THE EXTERIOR PENETRATION TO DAMPER WITH A MINIMUM OF 2" BOARD INSULATION.
I. PROVIDE AND EXTEND CONDENSATE DRAIN PIPING FROM ALL EQUIPMENT WITH CONDENSATE CONNECTIONS TO NEAREST CONNECTION TO STORM SYSTEM. ROUTE ALL PIPING SO AS TO NOT INTERFERE WITH JANITOR CLOSET OR FLOOR DRAIN.
J. ACCESS PANELS ARE INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ANY EQUIPMENT, VALVES, FIELD DEVICES, ETC. NEEDING AN ACCESS PANEL NOT INDICATED ON THE DRAWINGS SHALL ALSO BE PROVIDED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL OF PANEL SIZE, DETAIL, AND PANEL LOCATION PRIOR TO INSTALLATION OF ITEM REQUIRING ACCESS. PROVIDE AN ALLOWANCE FOR AN ADDITIONAL 20 ACCESS PANELS TO THESE SHOWN. PANELS SHALL BE FLUSH TYPE, WITH SURFACE AND FINISH TO MATCH ADJACENT SURFACES.
K. MOUNTING HEIGHTS OF ANY WALL DEVICES REQUIRE FINAL LOCATION AND ELEVATION COORDINATED AND CONFIRMED WITH ARCHITECTURE BEFORE INSTALLATION. REFER ALSO TO INTERIOR ELEVATIONS FOR DETAILS.
L. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT ALL DUCT CONNECTIONS TO AIR HANDLING UNITS, EXHAUST FANS, CABINET UNIT HEATERS, FAN COIL UNITS ETC.
M. AIR FLOW MEASURING STATIONS SHALL BE LOCATED IN ALL BUILT UP VAV BOXES AND ALL AHU/MAU OUTDOOR AIR DUCTS.
N. BALANCING DAMPERS SHALL BE LOCATED IN EACH RUN OUT DUCT SERVING A SINGLE SUPPLY, RETURN, OR EXHAUST GRILLE. BALANCING DAMPERS SHALL BE LOCATED IN ALL BRANCH DUCTS DOWNSTREAM OF VAV BOXES OR BUILT-UP VAV BOXES THAT SERVE 3 OR MORE DIFFUSERS, GRILLES OR REGISTERS. BALANCING DAMPERS SHALL BE LOCATED IN BRANCH DUCTS UP STREAM OF VAV BOXES THAT SERVE 3 OR MORE VAV BOXES. BALANCING DAMPERS SHALL BE LOCATED IN ALL RETURN AND EXHAUST DUCTS THAT SERVE 3 OR MORE DIFFUSERS.
O. PROVIDE A MINIMUM ALLOWANCE OF 15 REMOTE BALANCING DAMPERS.
P. ALL BALANCING DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE ELECTRONICALLY ACTIVATED BALANCING DAMPERS. DAMPER CONTROL SHALL BE VIA RJ-11 TYPE TELEPHONE CABLE WITH WALL MOUNTED TERMINATION JACKS LOCATED IN MECHANICAL ROOMS AND JANITORS CLOSETS (UP TO 1000 FT CABLE LENGTH).
Q. ONE TEMPERATURE SENSOR SHALL BE PROVIDED FOR EACH VAV BOX, BUILT UP VAV BOX, TRANSFER FAN, SPLIT SYSTEM, AND COMPUTER ROOM UNIT. ADDITIONALLY ONE TEMPERATURE SENSOR SHALL BE PROVIDED FOR EACH ROOM THAT HAS HOT WATER FINTUBE. A TOTAL OF 4 TEMPERATURE SENSORS SHALL BE PROVIDED IN THE AUDIENCE CHAMBER.
R. GRILLE, REGISTER AND DIFFUSER TYPES ARE ANTICIPATED TO BE AS FOLLOWS (REFER TO GRILLES, REGISTERS, AND DIFFUSER SCHEDULE FOR MORE DETAIL INFORMATION):

- SUPPLY DIFFUSERS IN CORRIDORS WITH CEILINGS: LINEAR SLOT DIFFUSERS (D20, D30 OR D40)
- SUPPLY DIFFUSERS IN ALL OTHER SPACES WITH ACOUSTIC CEILING TILES: ADJUSTABLE PATTERN SQUARE CEILING DIFFUSERS (D2)
- SUPPLY REGISTERS IN SPACES WITHOUT CEILINGS: AREOBLADE SUPPLY REGISTERS (R5)
- RETURN, TRANSFER AND EXHAUST REGISTERS / GRILLES IN ACOUSTIC TILE CEILINGS: EGGCRATE REGISTERS (G1, R1)
- RETURN, TRANSFER AND EXHAUST REGISTERS / GRILLES IN SPACES WITH GYPSUM CEILINGS OR WITHOUT CEILINGS: RETURN GRILLES (G3, G7, R8).

S. PROVIDE CO2 SENSORS IN STAGEHOUSE, AUDIENCE CHAMBER, STUDIO THEATER, MAIN LOBBY, BREAKROOM, DESIGN STUDIO, GREEN ROOM, PERFORMER LOUNGE, AND AN ALLOWANCE FOR 3 MORE SPACES
T. PROVIDE HUMIDITY SENSORS EACH AHU RETURN AIR DUCT MAIN, MAIN LOBBY, PIANO STORAGE, SCENE SHOP, COSTUME SHOP, AND AN ALLOWANCE FOR 3 MORE SPACES.
U. PROVIDE SPACE PRESSURE SENSORS FOR EACH AHU, SCENE SHOP, AUDIENCE CHAMBER, AND AN ALLOWANCE FOR 1 MORE SPACE.
V. PROVIDE LOCAL OVERRIDE EXHAUST FAN CONTROLS WITH INDICATOR LIGHT FOR THE FOLLOWING EXHAUST SYSTEMS: DUST COLLECTOR, SCENE SHOP EXHAUST, SCENE SHOP SLOT EXHAUST, DYE VAT ROOM, SPRAY BOOTH, CAFÉ, AND AN ALLOWANCE FOR 2 MORE SYSTEMS.

**PLAN KEY NOTES:**

1. DUCTWORK SHALL BE MOUNTED TIGHT TO UNDERSIDE OF CATWALK.
2. INTERNALLY LINE VERTICAL RETURN DUCT RISER.
3. DUCTWORK (SUPPLY OR RETURN) SERVING THE APPLICABLE THEATER VOLUME SHALL BE LINED AS SHOWN.
4. WRAP SUPPLY AND RETURN DUCT MAINS WITH GYPSUM LAGGING AS SHOWN IN CORRIDOR. REFER TO DETAIL 13/M7.3 FOR MORE INFORMATION.
5. RATED WALLS STOP AT 8'-0", RATED DAMPERS NOT REQUIRED.
6. LINEAR SLOT DIFFUSERS WITH PLENUM BOXES SHALL BE LOCATED HIGH IN SPACE BETWEEN STRUCTURAL JOISTS WITH BOTTOM OF DIFFUSER AT SAME ELEVATION AS BOTTOM FLANGE OF STRUCTURAL BEAM. DIFFUSER PLENUM MAY BE SECURED TO FLANGE OR HUNG FROM ABOVE. PAINT EXPOSED EAST FACE OF PLENUM.
7. PROVIDE 10' OF MATTE BLACK, FLEXIBLE HOSE DROP WITH DIFFUSER PLATE. DIFFUSER PLATE SHALL BE PER DIFFUSER PLATE DETAIL AND SHALL REST ON TENSION GRID. FLEXIBLE HOSE DROP SHALL ALLOW FOR USER ADJUSTMENT OF DIFFUSER LOCATIONS.
8. NO DUCT, HANGER OR OTHER DUCT SUPPORT WITHIN THE STAGEHOUSE SHALL PROJECT BEYOND THE FACE OF THE CATWALK AND INTO THE STAGE.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|---|---|
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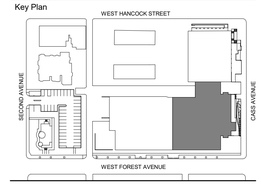
DETROIT, MI


Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL TWO HVAC - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# M2.2B

PLAN NORTH TRUE NORTH


Sheet Size: 30" x 42"
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BIM 360://WSU Hillberry Gateway/MP18 - WSU Hillberry Gateway-3995001100.rvt

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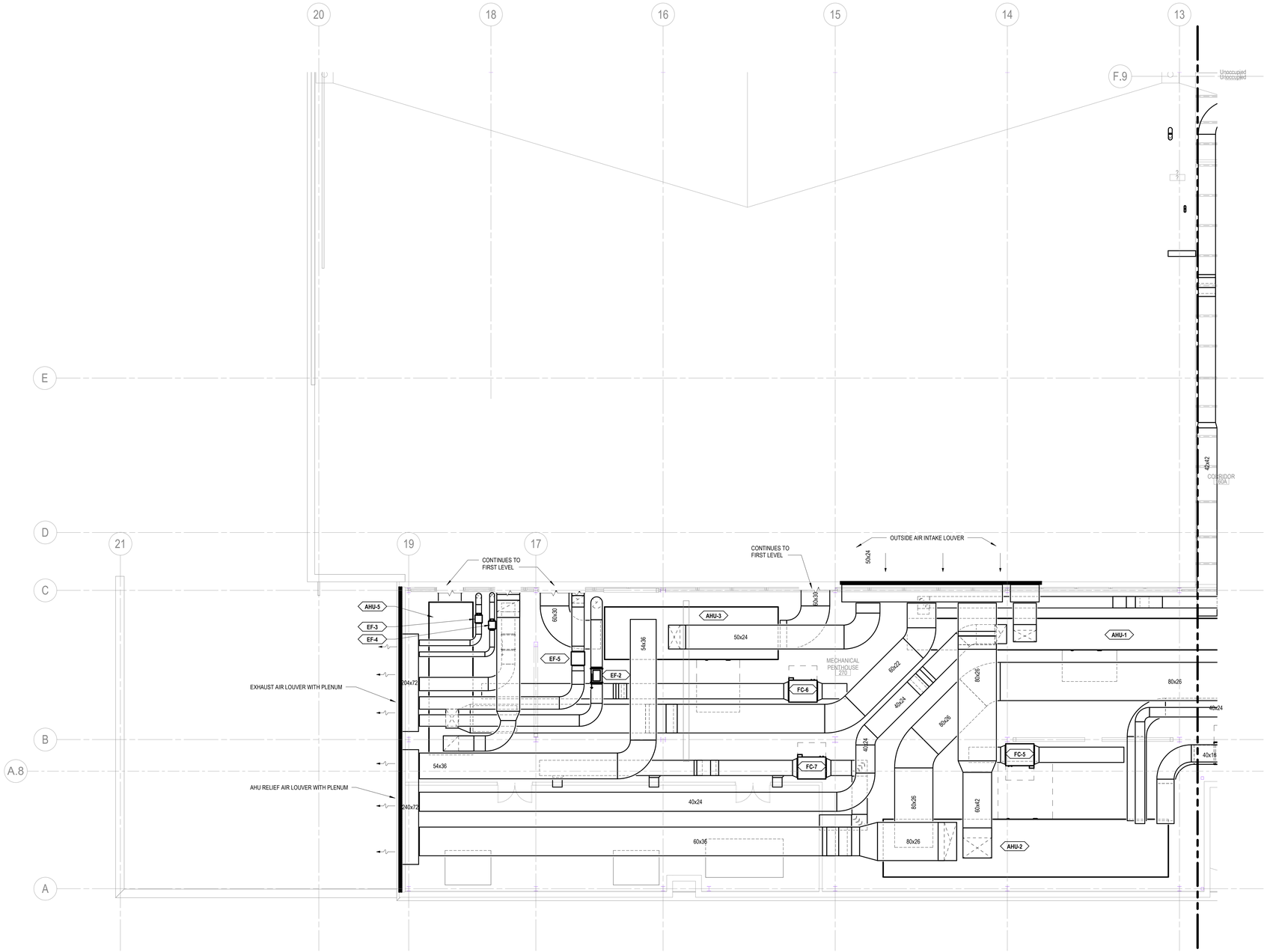


1 LEVEL TWO HVAC PLAN - SECTOR C
1/8" = 1'-0"

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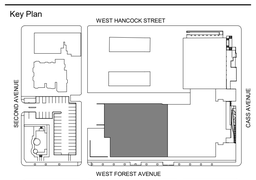
DETROIT, MI


Key Plan

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Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO HVAC - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# M2.2C

PLAN NORTH TRUE NORTH

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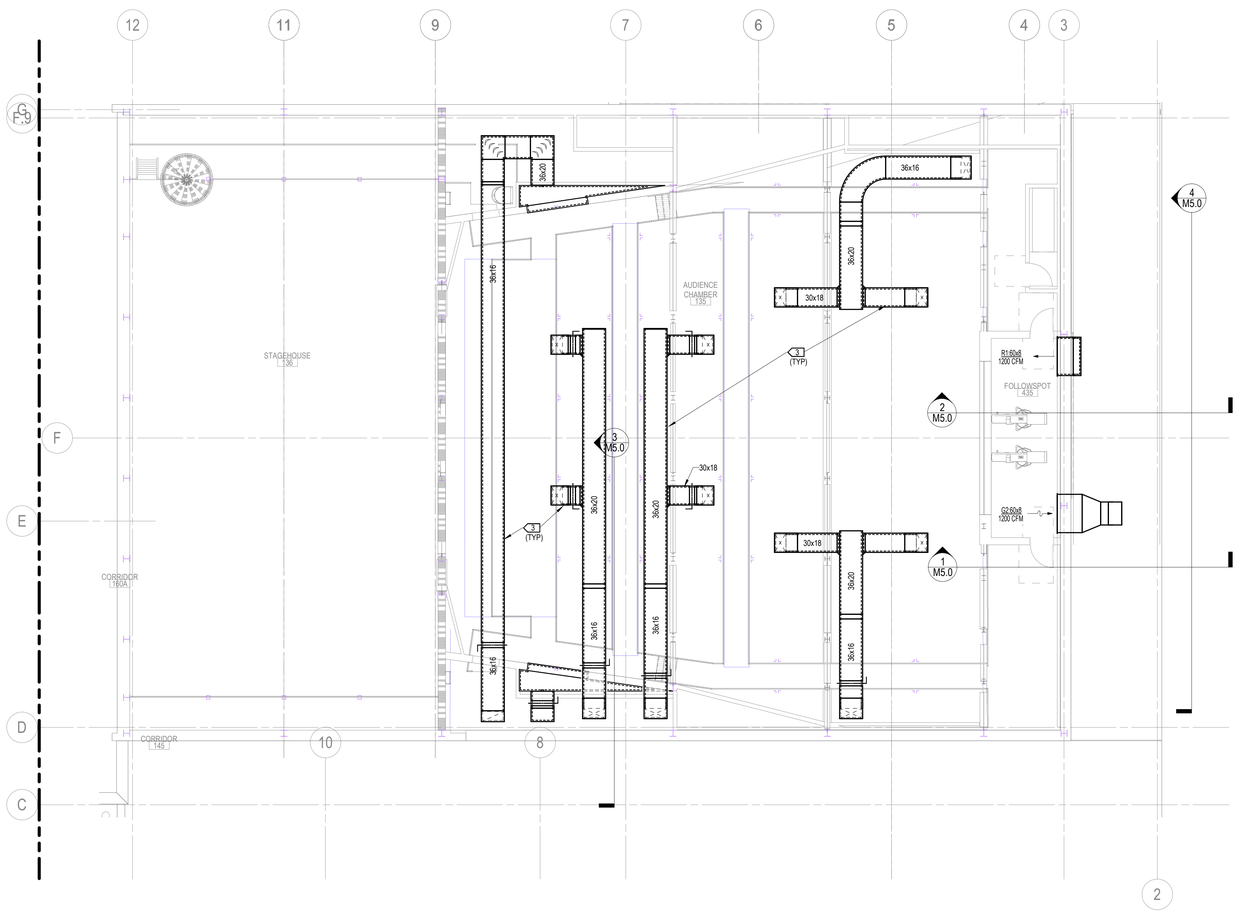


1 TECH LEVEL HVAC PLAN - SECTOR B
1/8" = 1'-0"

**PLAN KEY NOTES:**

1. DUCTWORK (SUPPLY OR RETURN) SERVING THE APPLICABLE THEATER VOLUME SHALL BE LINED AS SHOWN.

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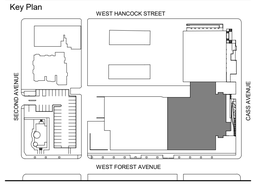


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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## TECH LEVEL HVAC - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

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PLAN NORTH TRUE NORTH

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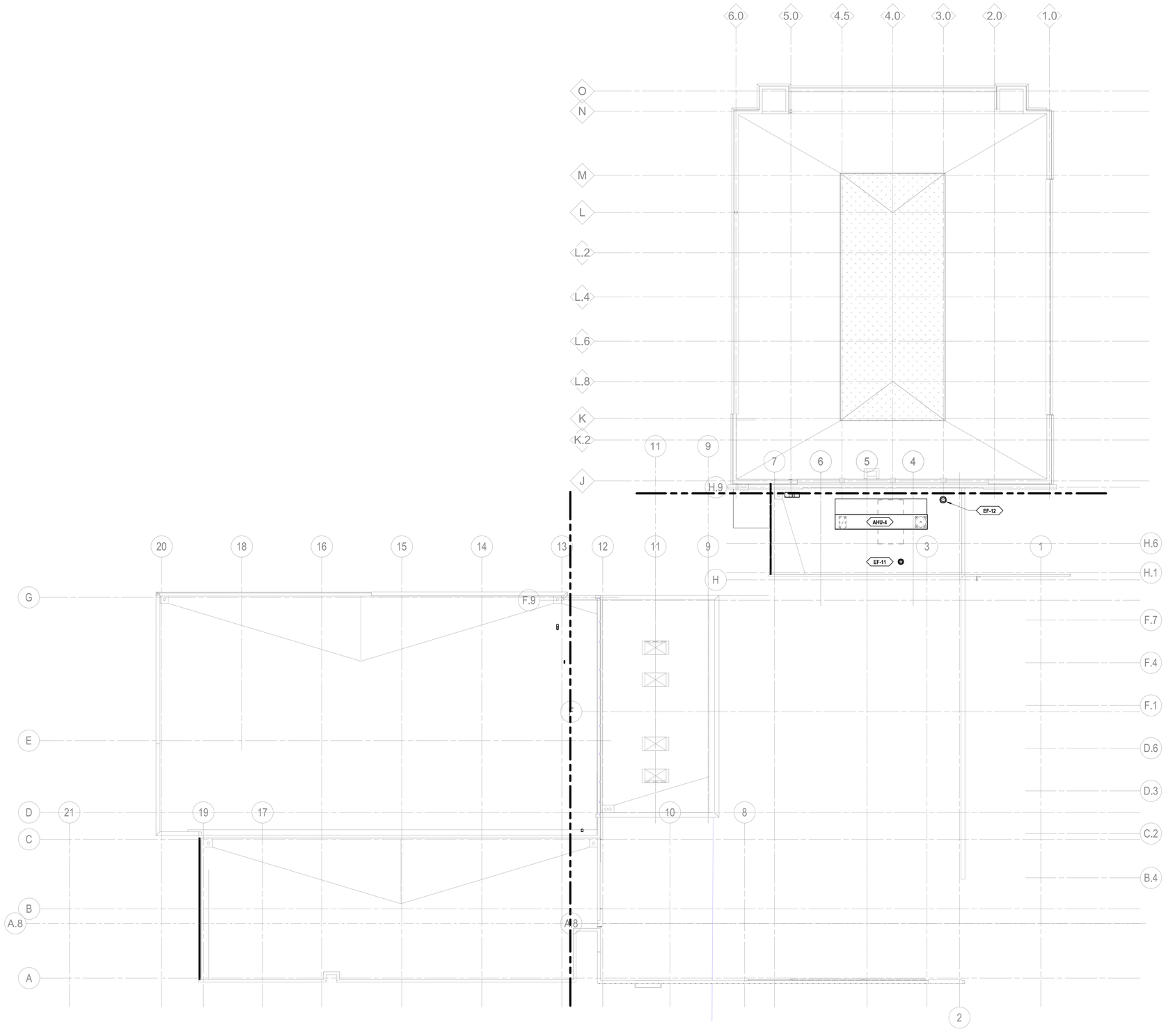


1 ROOF LEVEL - MECHANICAL
1/16" = 1'-0"

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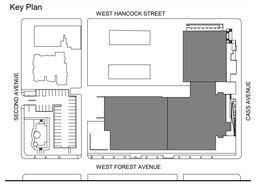
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ROOF PLAN OVERALL

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/16" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

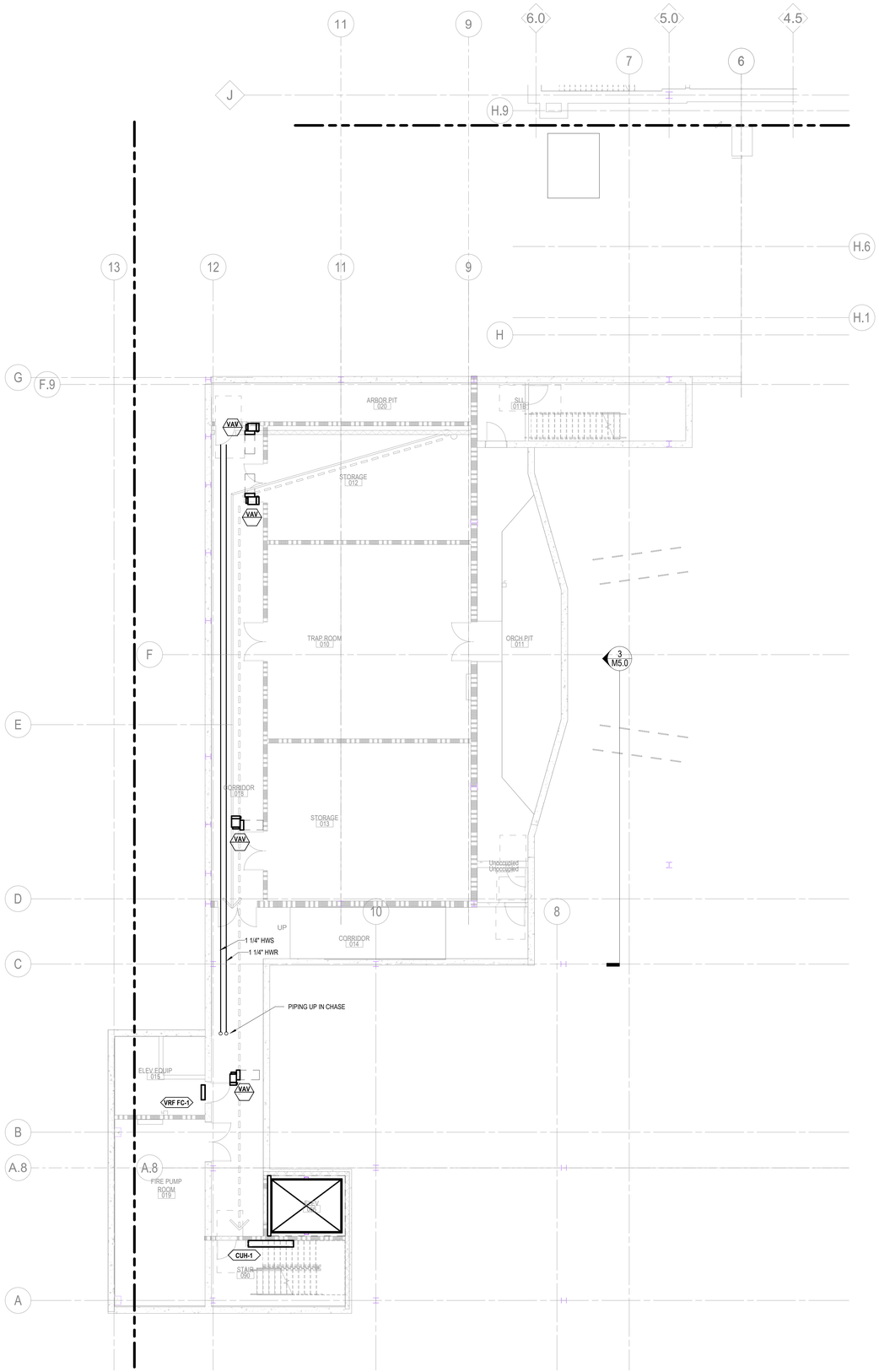
Drawing No:

PLAN NORTH TRUE NORTH

M2.4

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 LOWER LEVEL MECHANICAL PIPING - SECTOR B
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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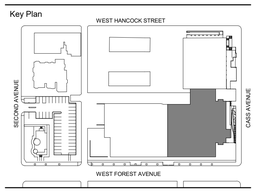
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LOWER LEVEL MECHANICAL PIPING - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

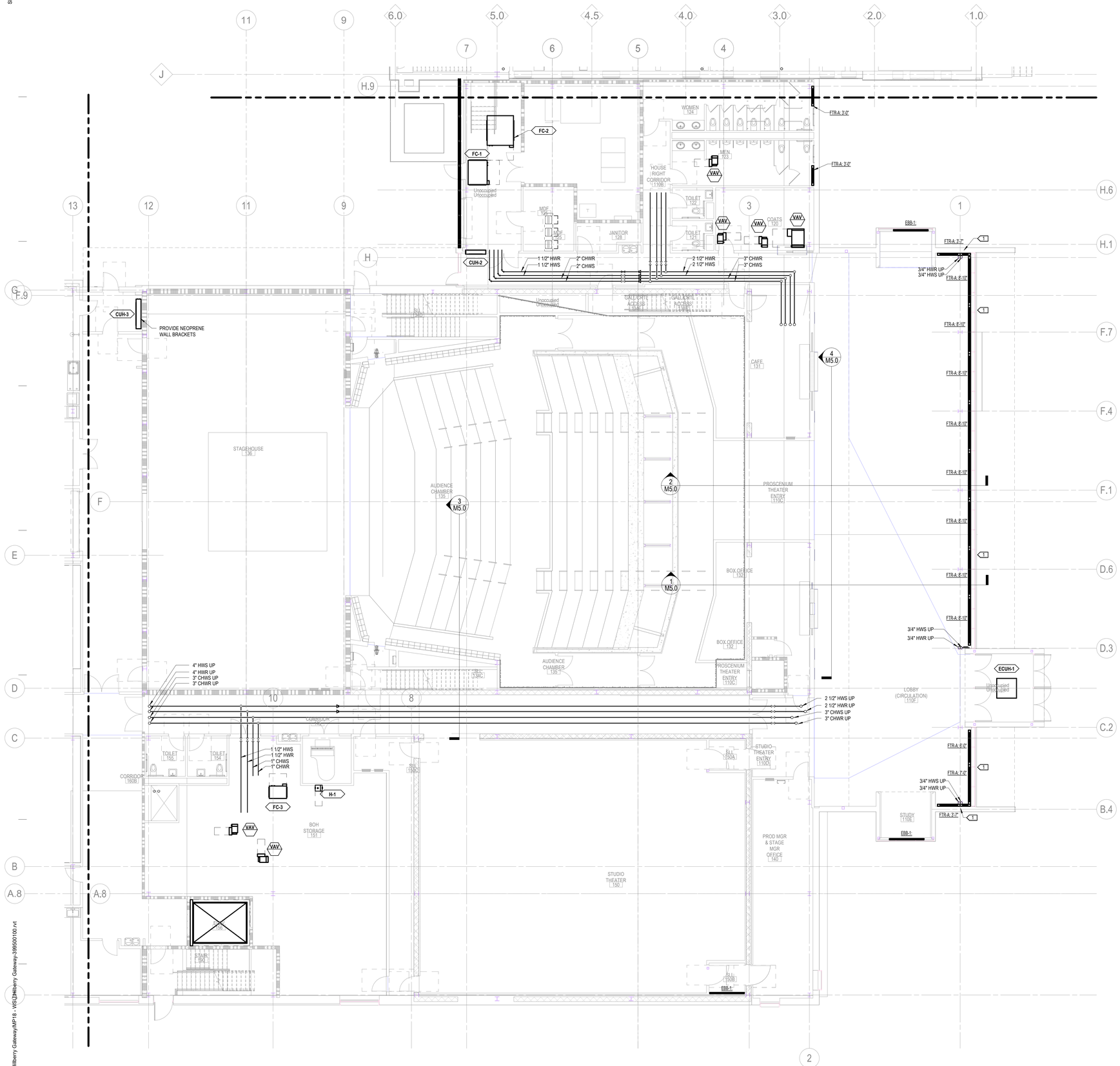
Drawing No:

M3.0B

PLAN NORTH TRUE NORTH

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 FIRST LEVEL PLAN PIPING
1/8" = 1'-0"

**PLAN KEY NOTES:**

1. FIN TUBE SHALL BE APPEAR CONTINUOUS THE ENTIRE LENGTH OF ASSOCIATED CURTAIN WALL. PROVIDED NECESSARY ENDCAPS TO CONCEAL PIPING.

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL ONE MECHANICAL PIPING - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

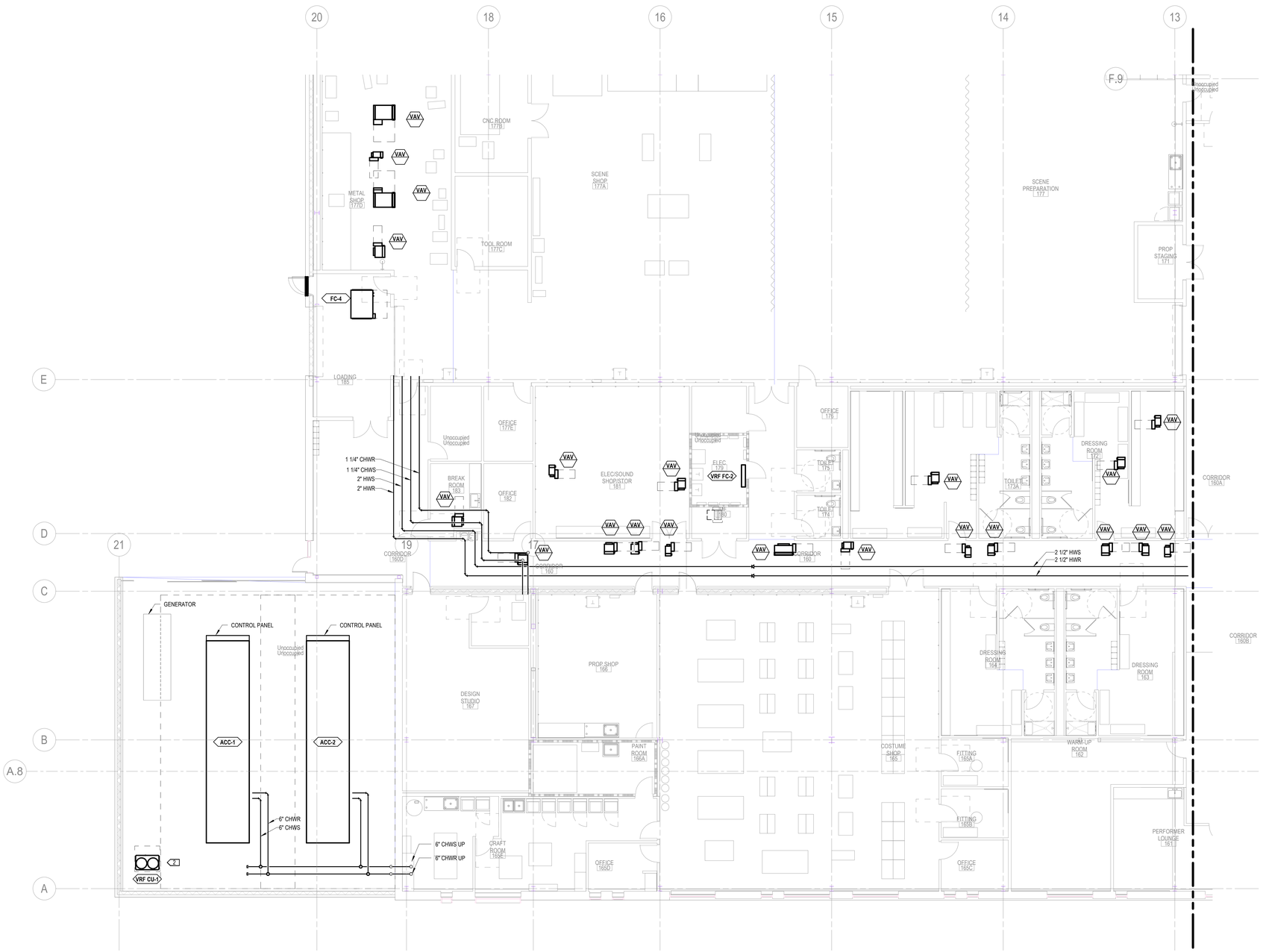
Drawing No:

# M3.1B

PLAN NORTH TRUE NORTH

BIM 360://WSU Hillberry Gateway/MP18 - WSU Hillberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 FIRST LEVEL PLAN PIPING
1/8" = 1'-0"

**PLAN KEY NOTES:**

1. CHILLED WATER PIPING SHALL PENETRATE EXTERIOR WALL 12" BELOW SCREENWALL ELEVATION.
2. EXTERIOR VRF CONDENSING UNIT SHALL BE MOUNTED ON A 24" STAND. REFER TO 1/M6.2 FOR MORE INFORMATION ON REFRIGERANT PIPING AND ACCESSORIES.

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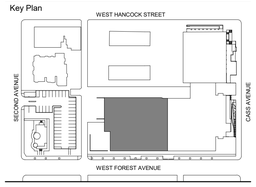
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
LEVEL ONE MECHANICAL PIPING - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

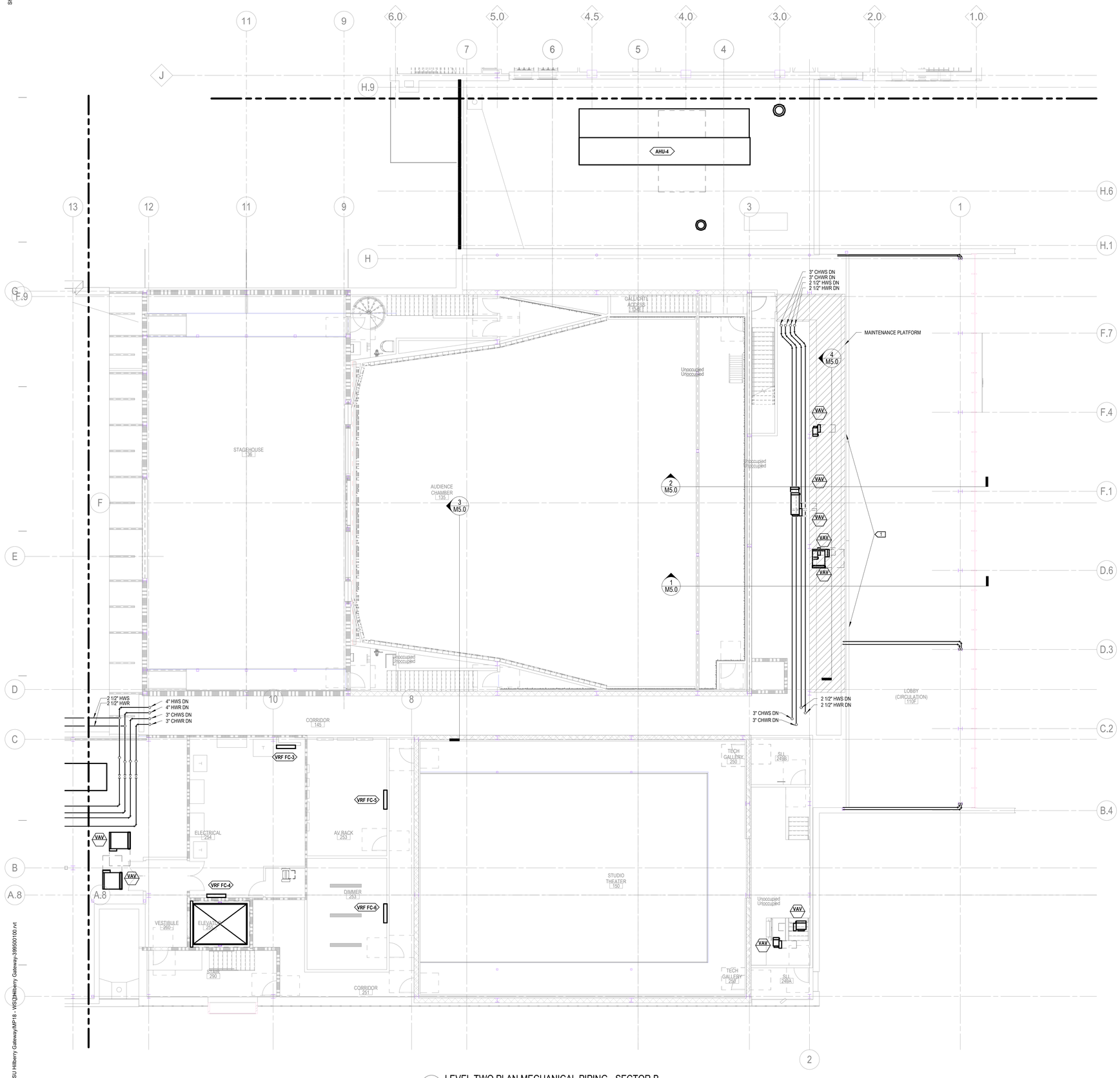
Drawing No:

PLAN NORTH TRUE NORTH

M3.1C

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001001.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL TWO PLAN MECHANICAL PIPING - SECTOR B
1/8" = 1'-0"

**PLAN KEY NOTES:**

1. ALL EQUIPMENT AND PIPING ACCESSORIES SHALL BE LOCATED SO THAT IT IS ACCESSIBLE FROM THE MAINTENANCE PLATFORM.

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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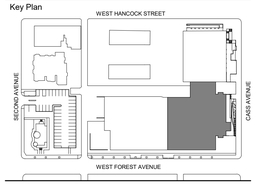
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL TWO MECHANICAL PIPING - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

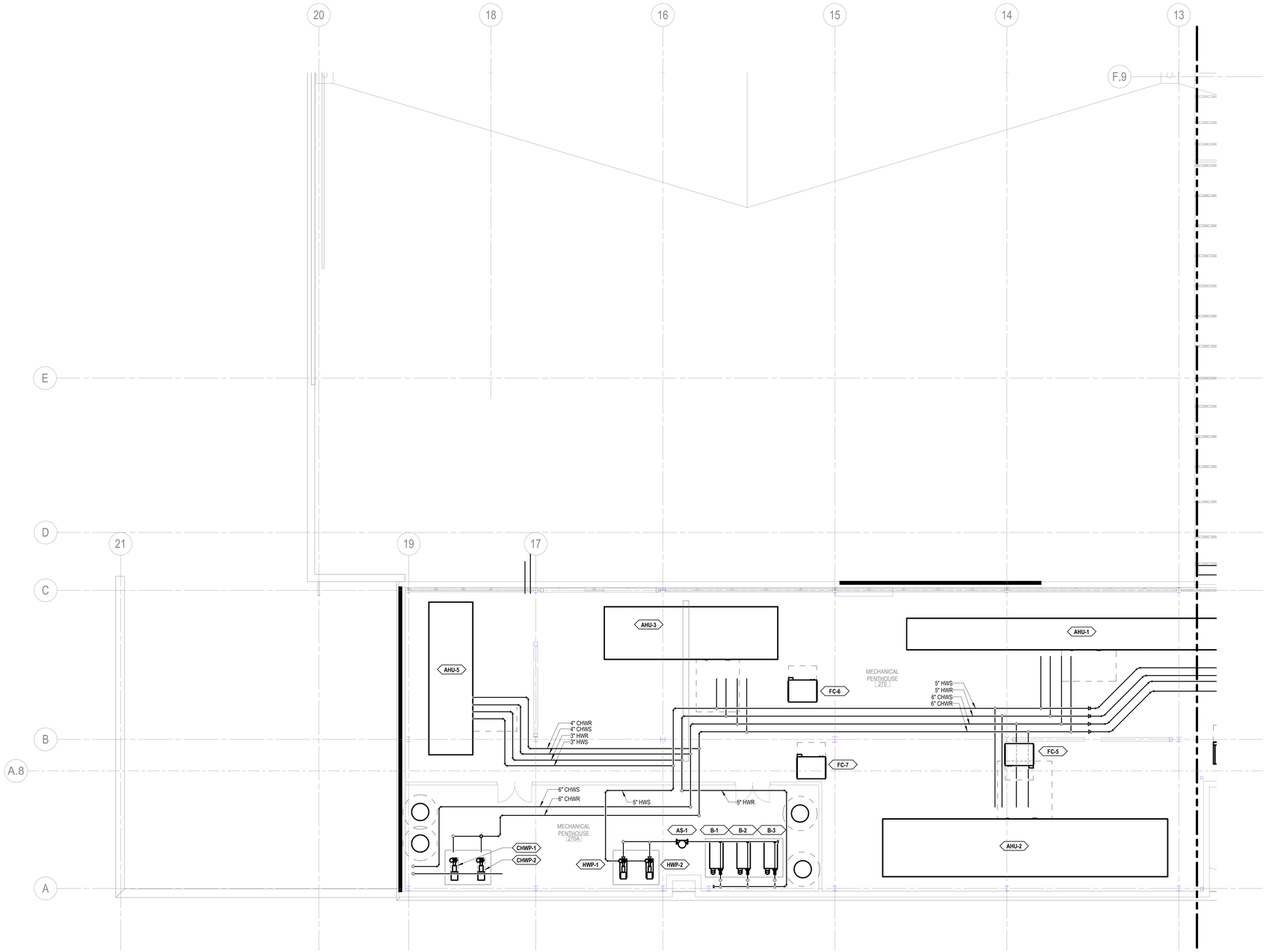
Drawing No:

# M3.2B

PLAN NORTH TRUE NORTH

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 LEVEL TWO PLAN MECHANICAL PIPING - SECTOR C
1/8" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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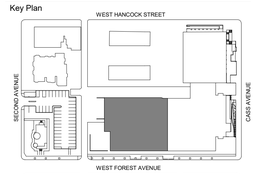
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO MECHANICAL PIPING - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

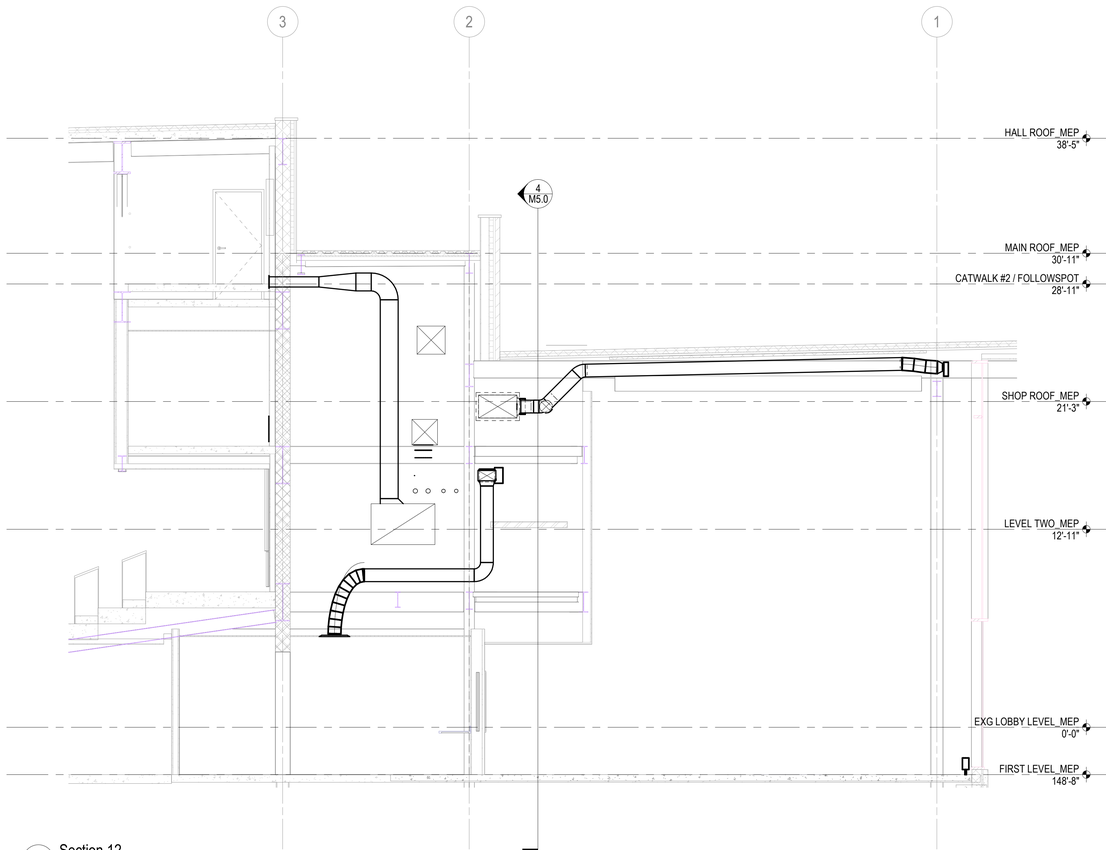
Drawing No:

PLAN NORTH TRUE NORTH

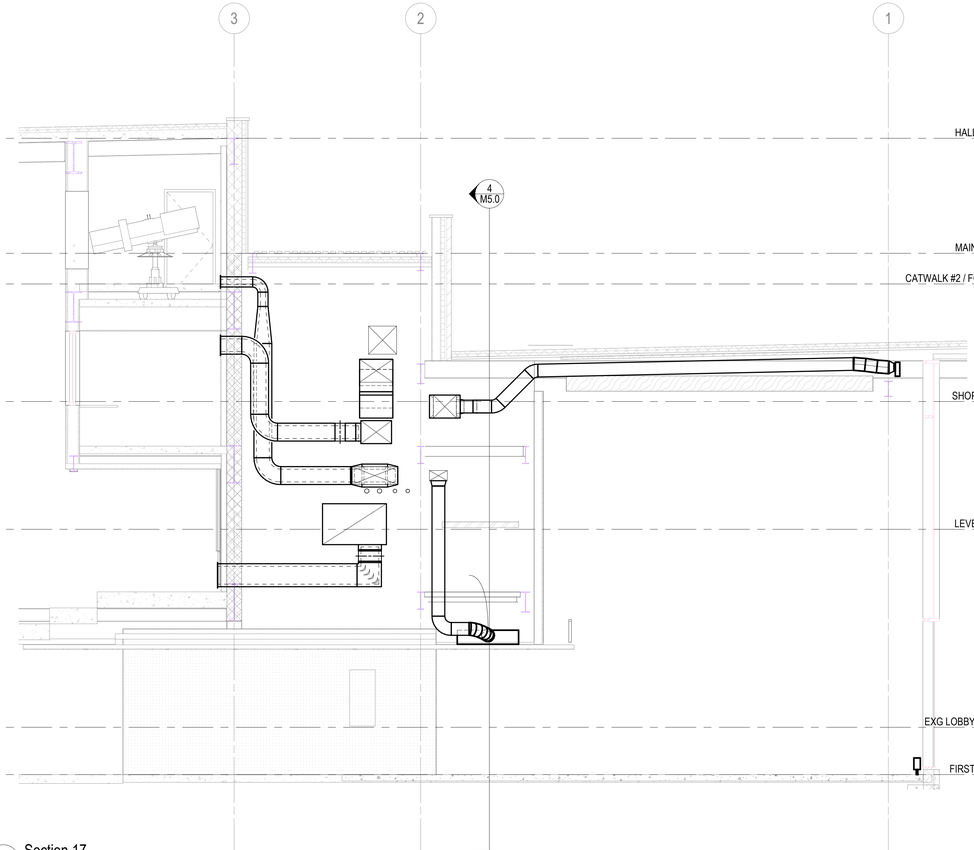
# M3.2C

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-399500100.rvt

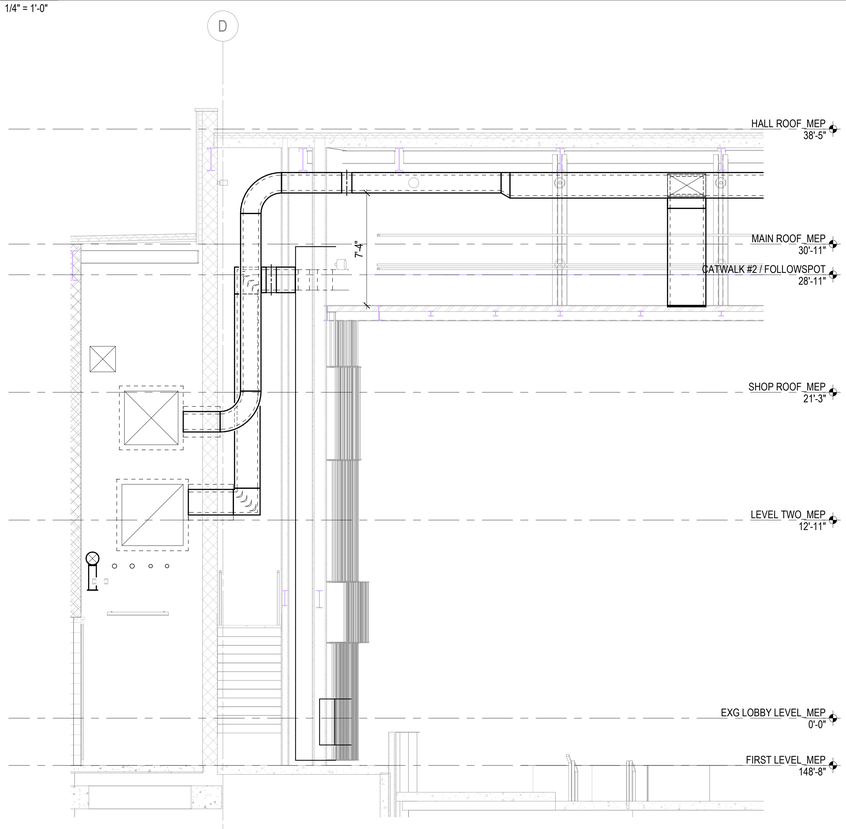
Sheet Size: 30" x 42"
- Template Version



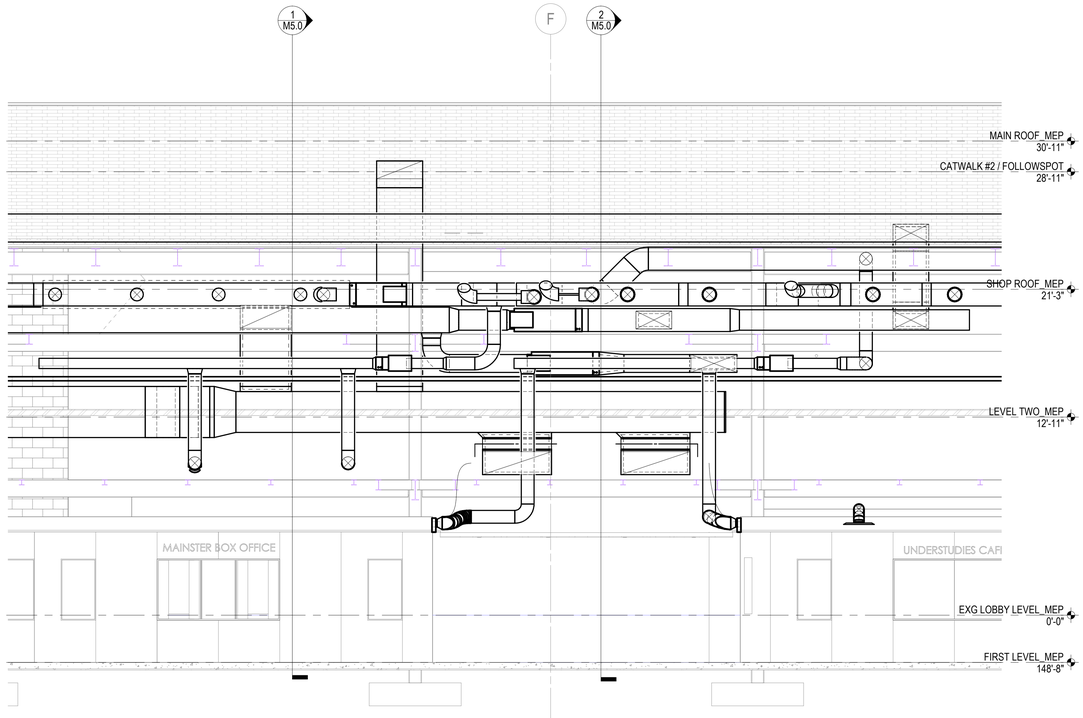

1 Section 12
1/4" = 1'-0"




2 Section 17
1/4" = 1'-0"




3 Section 59
1/4" = 1'-0"




4 Section 60
1/4" = 1'-0"

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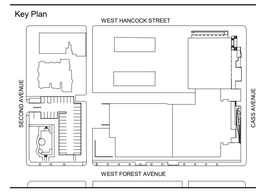
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## MECHANICAL BUILDING SECTIONS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

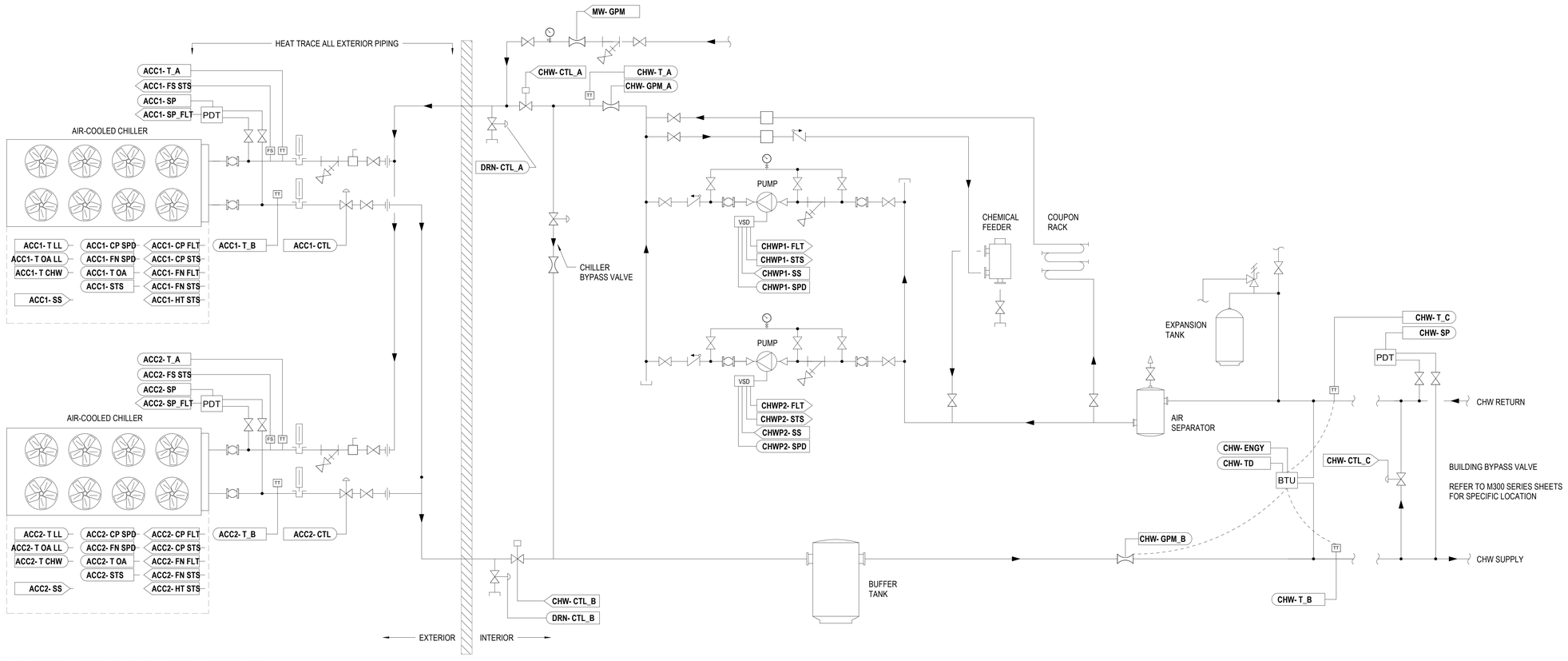
Signature:

Drawing No:

M5.0

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 CONTROL SCHEMATIC - CHILLED WATER SYSTEM
NOT TO SCALE

## CONTROL POINTS LIST - CHILLED WATER SYSTEM

| POINT ID | DESCRIPTION | POINT TYPE AI | AO | BI | BO | SETPOINT | SCHEDULE | TREND | ALARM | ON GRAPHIC | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ACC1-CP FLT | COMPRESSOR FAULT | | | ● | | | | ● | ● | ● | 1 POINT PER COMPRESSOR |
| ACC1-CP SPD | COMPRESSOR SPEED | ● | | | | | | ● | | ● | 1 POINT PER COMPRESSOR |
| ACC1-CP STS | COMPRESSOR STATUS | | | ● | | | | ● | | ● | 1 POINT PER COMPRESSOR |
| ACC1-CTL | MODULATING CONTROL VALVE POSITION | | ● | | | | | ● | | ● | |
| ACC1-FN FLT | CONDENSER FAN FAULT | | | ● | | | | ● | ● | ● | 1 POINT PER CONDENSER FAN |
| ACC1-FN SPD | CONDENSER FAN SPEED | ● | | | | | | ● | | ● | 1 POINT PER CONDENSER FAN |
| ACC1-FN STS | CONDENSER FAN STATUS | | | ● | | | | ● | | ● | 1 POINT PER CONDENSER FAN |
| ACC1-FS STS | FLOW SWITCH STATUS | | | ● | | | | ● | | ● | |
| ACC1-HT STS | CRANKCASE HEATER STATUS | | | ● | | | | ● | | ● | |
| ACC1-SP | DIFFERENTIAL STATIC PRESSURE | ● | | | | | | ● | | ● | |
| ACC1-SP_FLT | LOW LIMIT FAULT - DIFFERENTIAL STATIC PRESSURE | | | ● | | | | ● | ● | ● | CONFIRM MIN DP (FLOW) WITH MANUF. |
| ACC1-SS | CHILLER START/STOP SCHEDULE | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| ACC1-STS | CHILLER OVERALL STATUS | ● | | | | | | ● | ● | ● | ON, OFF, STANDBY, FAULTS |
| ACC1-T CHW | LEAVING WATER TEMPERATURE SETPOINT | | ● | | | ● | | ● | | ● | |
| ACC1-T LL | LEAVING WATER LOW LIMIT SETPOINT | | ● | | | ● | | ● | ● | ● | |
| ACC1-T OA | OUTSIDE TEMPERATURE | ● | | | | | | ● | | ● | |
| ACC1-T OA LL | OUTSIDE TEMPERATURE LOW LIMIT SETPOINT | | ● | | | ● | | ● | ● | ● | |
| ACC1-T_A | ENTERING WATER TEMPERATURE | ● | | | | | | ● | | ● | |
| ACC1-T_B | LEAVING WATER TEMPERATURE | ● | | | | ● | | ● | | ● | |
| ACC2-CP FLT | COMPRESSOR FAULT | | | ● | | | | ● | ● | ● | 1 POINT PER COMPRESSOR |
| ACC2-CP SPD | COMPRESSOR SPEED | ● | | | | | | ● | | ● | 1 POINT PER COMPRESSOR |
| ACC2-CP STS | COMPRESSOR STATUS | | | ● | | | | ● | | ● | 1 POINT PER COMPRESSOR |
| ACC2-CTL | MODULATING CONTROL VALVE POSITION | | ● | | | | | ● | | ● | |
| ACC2-FN FLT | CONDENSER FAN FAULT | | | ● | | | | ● | ● | ● | 1 POINT PER CONDENSER FAN |
| ACC2-FN SPD | CONDENSER FAN SPEED | ● | | | | | | ● | | ● | 1 POINT PER CONDENSER FAN |
| ACC2-FN STS | CONDENSER FAN STATUS | | | ● | | | | ● | | ● | 1 POINT PER CONDENSER FAN |
| ACC2-FS STS | FLOW SWITCH STATUS | ● | | | | | | ● | | ● | |
| ACC2-HT STS | CRANKCASE HEATER STATUS | | | ● | | | | ● | | ● | |
| ACC2-SP | DIFFERENTIAL STATIC PRESSURE | ● | | | | | | ● | | ● | |
| ACC2-SP_FLT | LOW LIMIT FAULT - DIFFERENTIAL STATIC PRESSURE | | | ● | | | | ● | ● | ● | CONFIRM MIN DP (FLOW) WITH MANUF. |
| ACC2-SS | CHILLER START/STOP SCHEDULE | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| ACC2-STS | CHILLER OVERALL STATUS | ● | | | | | | ● | ● | ● | ON, OFF, STANDBY, FAULTS |
| ACC2-T CHW | LEAVING WATER TEMPERATURE SETPOINT | | ● | | | ● | | ● | | ● | |
| ACC2-T LL | LEAVING WATER LOW LIMIT SETPOINT | | ● | | | ● | | ● | ● | ● | |
| ACC2-T OA | OUTSIDE TEMPERATURE | ● | | | | | | ● | | ● | |
| ACC2-T OA LL | OUTSIDE TEMPERATURE LOW LIMIT SETPOINT | | ● | | | ● | | ● | ● | ● | |
| ACC2-T_A | ENTERING WATER TEMPERATURE | ● | | | | | | ● | | ● | |
| ACC2-T_B | LEAVING WATER TEMPERATURE | ● | | | | ● | | ● | | ● | |
| CHW-CTL_A | VALVE POSITION (ON/OFF) | | | | ● | | | ● | | ● | |
| CHW-CTL_B | VALVE POSITION (ON/OFF) | | | | ● | | | ● | | ● | |
| CHW-CTL_C | MODULATING CONTROL VALVE POSITION | | | | ● | | | ● | | ● | |
| CHW-ENGY | ENERGY RATE (MBH) | ● | | | | | | ● | | ● | |
| CHW-GPM_A | FLOW RATE | ● | | | | | | ● | | ● | |
| CHW-GPM_B | FLOW RATE | ● | | | | | | ● | | ● | |
| CHW-SP | DIFFERENTIAL STATIC PRESSURE | ● | | | | | | ● | | ● | |
| CHW-T_A | TEMPERATURE TRANSMITTER | ● | | | | | | ● | | ● | |
| CHW-T_B | TEMPERATURE TRANSMITTER | ● | | | | ● | | ● | | ● | |
| CHW-T_C | TEMPERATURE TRANSMITTER | ● | | | | | | ● | | ● | |
| CHW-TD | TEMPERATURE DIFFERENTIAL | ● | | | | | | ● | | ● | |
| CHWP1-FLT | PUMP FAULT | | | ● | | | | ● | ● | ● | |
| CHWP1-SPD | PUMP SPEED | | ● | | | | | ● | | ● | |
| CHWP1-SS | START/STOP | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| CHWP1-STS | PUMP STATUS | | | ● | | | | ● | | ● | |

## CONTROL POINTS LIST - CHILLED WATER SYSTEM

| POINT ID | DESCRIPTION | POINT TYPE AI | AO | BI | BO | SETPOINT | SCHEDULE | TREND | ALARM | ON GRAPHIC | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CHWP2-FLT | PUMP FAULT | | | ● | | | | ● | ● | ● | |
| CHWP2-SPD | PUMP SPEED | | ● | | | | | ● | | ● | |
| CHWP2-SS | START/STOP | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| CHWP2-STS | PUMP STATUS | | | ● | | | | ● | | ● | |
| DRN-CTL_A | MODULATING CONTROL VALVE POSITION | | ● | | | | | ● | | ● | |
| DRN-CTL_B | MODULATING CONTROL VALVE POSITION | | ● | | | | | ● | | ● | |
| MW-GPM | FLOW RATE | | | | ● | | | ● | | ● | |

HamiltonAnderson
architecture landscape architecture urban design

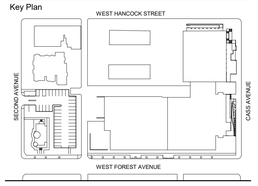
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
CHILLED WATER SYSTEM SCHEMATIC & CONTROLS

Project Number: 3995-001-00

Drawn By: Designer

Scale: NOT TO SCALE

Seal:

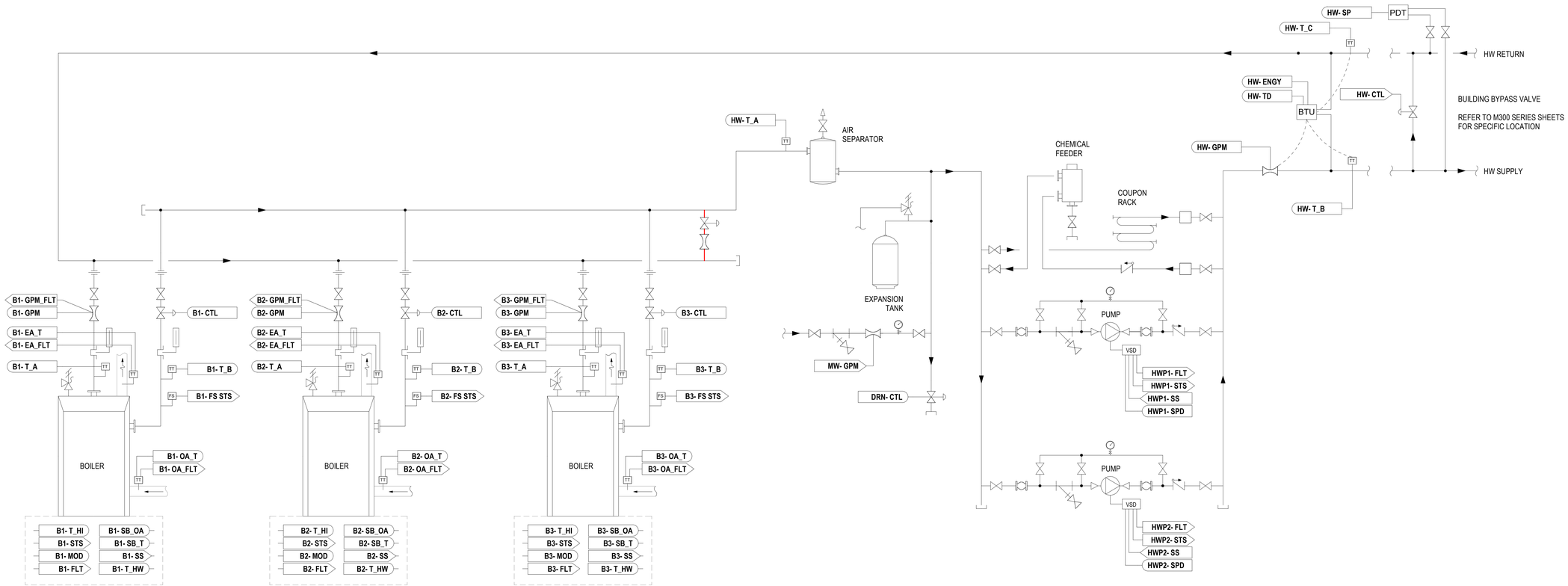
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
M6.0

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 CONTROL SCHEMATIC - HEATING WATER SYSTEM

NOT TO SCALE

## CONTROL POINTS LIST - HEATING WATER SYSTEM

| WT | DESCRIPTION | POINT TYPE AI | AO | BI | BO | SETPOINT | SCHEDULE | TREND | ALARM | ON GRAPHIC | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B1-CTL | MODULATING CONTROL VALVE POSITION | | ● | | | | | ● | | ● | |
| B1-EA_FLT | EXHAUST (FLUE) AIR TEMP HIGH LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B1-EA_T | EXHAUST (FLUE) AIR TEMP | ● | | | | | | ● | | ● | |
| B1-FLT | BOILER FAULTS | | | ● | | | | ● | ● | ● | 1 POINT PER FAULT TYPE |
| B1-FS STS | FLOW SWITCH STATUS | | | ● | | | | ● | | ● | |
| B1-GPM | FLOW RATE | ● | | | | | | ● | | ● | |
| B1-GPM_FLT | FLOW RATE LOW LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B1-MOD | FIRING MODULATION RATE | ● | | | | | | ● | | ● | |
| B1-OA_FLT | OUTSIDE (COMBUSION) AIR TEMP LOW LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B1-OA_T | OUTSIDE (COMBUSION) AIR TEMP | ● | | | | | | ● | | ● | |
| B1-SB_OA | SETBACK - OUTSIDE AIR TEMP RANGE | | ● | | | ● | | ● | | ● | |
| B1-SB_T | SETBACK - LEAVING WATER TEMP RANGE | | ● | | | ● | | ● | | ● | |
| B1-SS | BOILER START/STOP SCHEDULE | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| B1-STS | BOILER STATUS | | | ● | | | | ● | ● | ● | ON, OFF, STANDBY, FAULTS |
| B1-T_A | ENTERING WATER TEM | ● | | | | | | ● | | ● | |
| B1-T_B | LEAVING WATER TEMP | ● | | | | ● | | ● | | ● | |
| B1-T_HI | LEAVING WATER TEMP HIGH LIMIT | ● | | | | | | ● | ● | ● | |
| B1-T_HW | LEAVING WATER TEMP SETPOINT | | ● | | | ● | | ● | | ● | |
| B2-CTL | MODULATING CONTROL VALVE POSITION | | ● | | | | | ● | | ● | |
| B2-EA_FLT | EXHAUST (FLUE) AIR TEMP HIGH LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B2-EA_T | EXHAUST (FLUE) AIR TEMP | ● | | | | | | ● | | ● | |
| B2-FLT | BOILER FAULTS | | | ● | | | | ● | ● | ● | 1 POINT PER FAULT TYPE |
| B2-FS STS | FLOW SWITCH STATUS | | | ● | | | | ● | | ● | |
| B2-GPM | FLOW RATE | ● | | | | | | ● | | ● | |
| B2-GPM_FLT | FLOW RATE LOW LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B2-MOD | FIRING MODULATION RATE | ● | | | | | | ● | | ● | |
| B2-OA_FLT | OUTSIDE (COMBUSION) AIR TEMP LOW LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B2-OA_T | OUTSIDE (COMBUSION) AIR TEMP | ● | | | | | | ● | | ● | |
| B2-SB_OA | SETBACK - OUTSIDE AIR TEMP RANGE | | ● | | | ● | | ● | | ● | |
| B2-SB_T | SETBACK - LEAVING WATER TEMP RANGE | | ● | | | ● | | ● | | ● | |
| B2-SS | BOILER START/STOP SCHEDULE | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| B2-STS | BOILER STATUS | | | ● | | | | ● | ● | ● | ON, OFF, STANDBY, FAULTS |
| B2-T_A | ENTERING WATER TEM | ● | | | | | | ● | | ● | |
| B2-T_B | LEAVING WATER TEMP | ● | | | | ● | | ● | | ● | |
| B2-T_HI | LEAVING WATER TEMP HIGH LIMIT | ● | | | | | | ● | ● | ● | |
| B2-T_HW | LEAVING WATER TEMP SETPOINT | | ● | | | ● | | ● | | ● | |
| B3-CTL | MODULATING CONTROL VALVE POSITION | | ● | | | | | ● | | ● | |
| B3-EA_FLT | EXHAUST (FLUE) AIR TEMP HIGH LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B3-EA_T | EXHAUST (FLUE) AIR TEMP | ● | | | | | | ● | | ● | |
| B3-FLT | BOILER FAULTS | | | ● | | | | ● | ● | ● | 1 POINT PER FAULT TYPE |
| B3-FS STS | FLOW SWITCH STATUS | | | ● | | | | ● | | ● | |
| B3-GPM | FLOW RATE | ● | | | | | | ● | | ● | |
| B3-GPM_FLT | FLOW RATE LOW LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B3-MOD | FIRING MODULATION RATE | ● | | | | | | ● | | ● | |
| B3-OA_FLT | OUTSIDE (COMBUSION) AIR TEMP LOW LIMIT FAULT | | | ● | | | | ● | ● | ● | |
| B3-OA_T | OUTSIDE (COMBUSION) AIR TEMP | ● | | | | | | ● | | ● | |
| B3-SB_OA | SETBACK - OUTSIDE AIR TEMP RANGE | | ● | | | ● | | ● | | ● | |
| B3-SB_T | SETBACK - LEAVING WATER TEMP RANGE | | ● | | | ● | | ● | | ● | |
| B3-SS | BOILER START/STOP SCHEDULE | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| B3-STS | BOILER STATUS | | | ● | | | | ● | ● | ● | ON, OFF, STANDBY, FAULTS |
| B3-T_A | ENTERING WATER TEM | ● | | | | | | ● | | ● | |
| B3-T_B | LEAVING WATER TEMP | ● | | | | ● | | ● | | ● | |
| B3-T_HI | LEAVING WATER TEMP HIGH LIMIT | ● | | | | | | ● | ● | ● | |
| B3-T_HW | LEAVING WATER TEMP SETPOINT | | ● | | | ● | | ● | | ● | |

## CONTROL POINTS LIST - HEATING WATER SYSTEM

| WT | DESCRIPTION | POINT TYPE AI | AO | BI | BO | SETPOINT | SCHEDULE | TREND | ALARM | ON GRAPHIC | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRN-CTL | MODULATING CONTROL VALVE POSITION | | ● | | | | | ● | | ● | |
| HW-CTL | MODULATING CONTROL VALVE POSITION | | | | ● | | | ● | | ● | |
| HW-ENGY | ENERGY RATE (MBH) | ● | | | | | | ● | | ● | |
| HW-GPM | FLOW RATE | ● | | | | | | ● | | ● | |
| HW-SP | DIFFERENTIAL STATIC PRESSURE | ● | | | | | | ● | | ● | |
| HW-T_A | TEMPERATURE TRANSMITTER | ● | | | | ● | | ● | | ● | |
| HW-T_B | TEMPERATURE TRANSMITTER | ● | | | | ● | | ● | | ● | |
| HW-T_C | TEMPERATURE TRANSMITTER | ● | | | | | | ● | | ● | |
| HW-TD | TEMPERATURE DIFFERENTIAL | ● | | | | | | ● | | ● | |
| HWP1-FLT | PUMP FAULT | | | ● | | | | ● | ● | ● | |
| HWP1-SPD | PUMP SPEED | | ● | | | | | ● | | ● | |
| HWP1-SS | START/STOP | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| HWP1-STS | PUMP STATUS | | | ● | | | | ● | | ● | |
| HWP2-FLT | PUMP FAULT | | | ● | | | | ● | ● | ● | |
| HWP2-SPD | PUMP SPEED | | ● | | | | | ● | | ● | |
| HWP2-SS | START/STOP | | | | ● | | ● | ● | | ● | SIGNAL TO SCHEDULE LEAD LAG ONLY |
| HWP2-STS | PUMP STATUS | | | ● | | | | ● | | ● | |
| MW-GPM | FLOW RATE | | | | ● | | | ● | | ● | |

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HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
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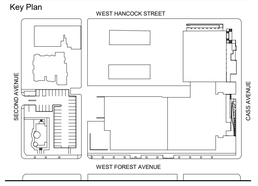
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

HEATING WATER SYSTEM SCHEMATIC & CONTROLS

Project Number: 3995-001-00

Drawn By: Designer

Scale: NOT TO SCALE

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

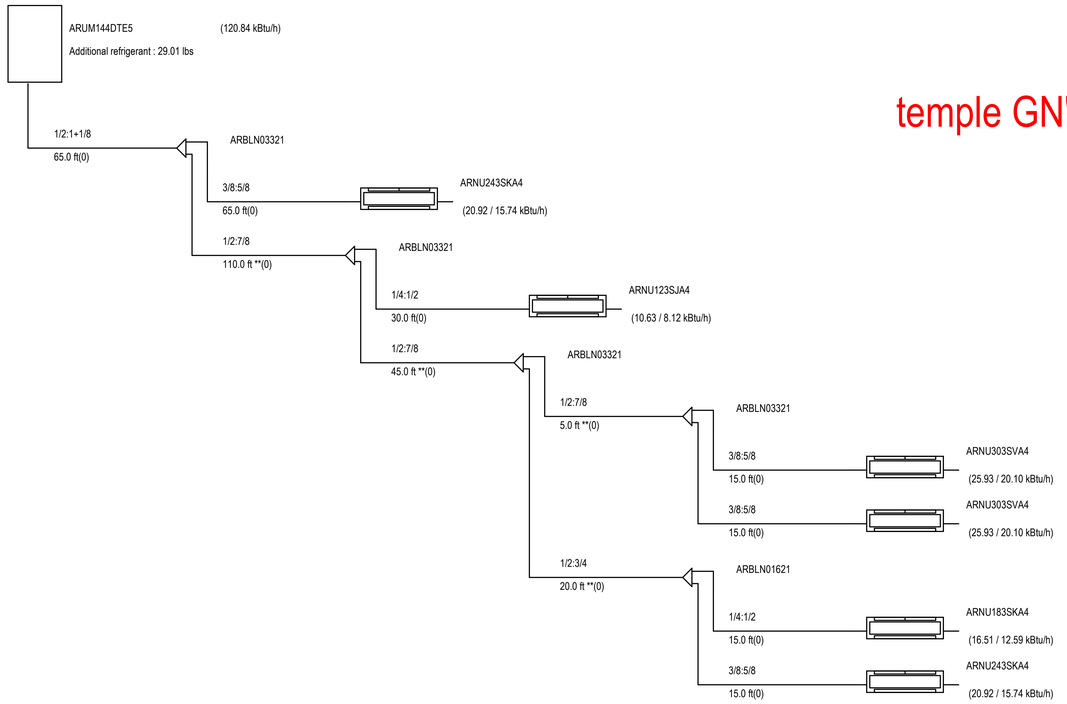
Signature:

Drawing No:

M6.1

BIM 360://WSU Hilberry Gateway/MP18 - HSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version




temple GN's

1 VRF PIPING SCHEMATIC
1/4" = 1'-0"

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HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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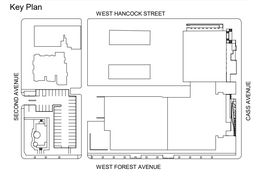
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## VRF SYSTEM SCHEMATIC

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/4" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

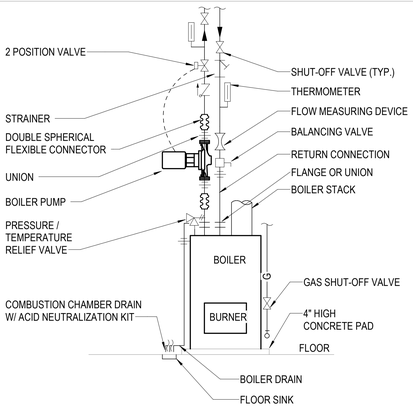
Signature:

Drawing No:

M6.2

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

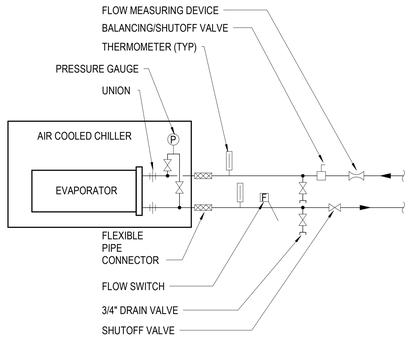
Sheet Size: 30" x 42"
- Template Version



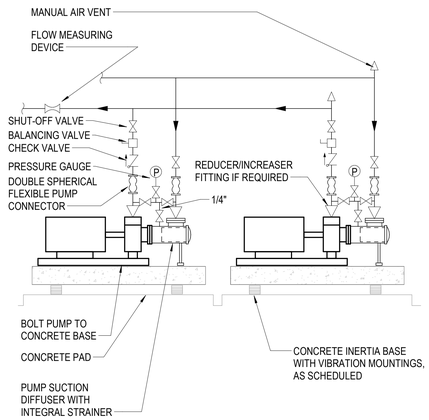

GENERAL NOTES:

- PIPE PRESSURE/TEMPERATURE RELIEF VALVES AND BOILER DRAINS FULL SIZE TO FLOOR DRAINS.
- PROVIDE UNIONS FOR PIPE REMOVAL TO ALLOW EASY ACCESS TO SERVICE SIDE OF BOILER.
- REFER TO INLINE PUMP DETAIL FOR ADDITINAL PUMP VALVES AND ACCESSORIES.

1 HOT WATER BOILER
NOT TO SCALE



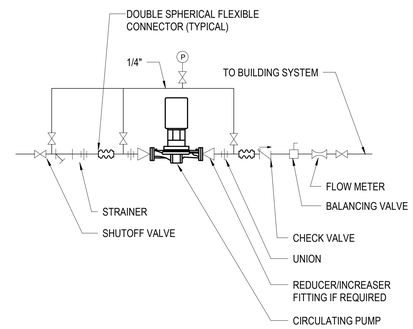

2 AIR COOLED CHILLER PIPING
NOT TO SCALE




GENERAL NOTES:

A. ALL VALVES AND FITTINGS TO BE PIPE SIZE, NOT PUMP INLET AND OUTLET SIZE.

3 DUPLEX END SUCTION BASE MOUNTED PUMP
NOT TO SCALE



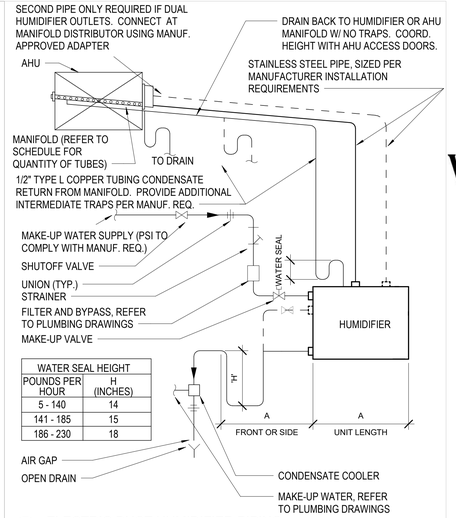

NOTES

A. ALL VALVES AND FITTINGS TO BE PIPE SIZE, NOT PUMP INLET AND OUTLET SIZE.

GENERAL NOTES:

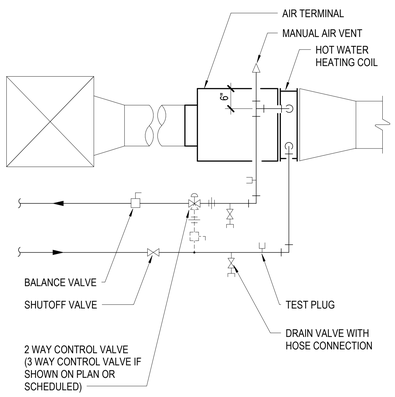
A. ALL VALVES AND FITTINGS TO BE PIPE SIZE, NOT PUMP INLET AND OUTLET SIZE.

4 HYDRONIC INLINE CIRCULATING PUMP
NOT TO SCALE

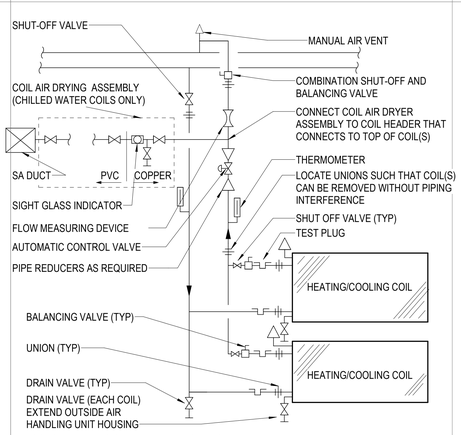



| WATER SEAL HEIGHT | |
|---|---|
| POUNDS PER HOUR | H (INCHES) |
| 5 - 140 | 14 |
| 141 - 185 | 15 |
| 186 - 230 | 18 |

5 ELECTRIC DUCT HUMIDIFIER PIPING
NOT TO SCALE

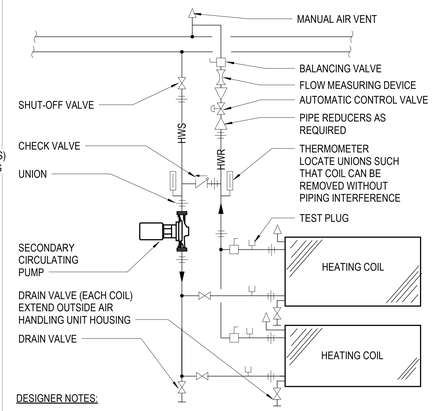



25 AIR TERMINAL REHEAT COIL PIPING
NOT TO SCALE




1. COILS AND PIPING SHALL BE ARRANGED TO BE FULLY DRAINABLE.
2. VERTICAL PIPING SHALL BE OFFSET SUCH THAT COILS CAN BE REMOVED WITHOUT INTERFERENCE.
3. ARRANGEMENT SHOWN IS FOR TWO COILS BUT IS APPLICABLE FOR TWO OR MORE COILS.
4. VALVES AND PIPING SPECIALTIES SHALL BE LOCATED SUCH THAT THEY ARE FULLY ACCESSIBLE.
5. MINIMUM COIL AIR DRYING PIPING (PVC AND COPPER) SHALL BE EQUAL TO HEADER SIZE OF COILS

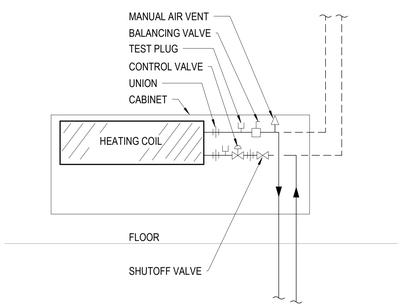
7 HOT WATER AND CHILLED WATER COIL PIPING
NOT TO SCALE




DESIGNER NOTES:

A. COILS AND PIPING SHALL BE ARRANGED TO BE FULLY DRAINABLE.
B. VERTICAL PIPING SHALL BE OFFSET SUCH THAT COILS CAN BE REMOVED WITHOUT INTERFERENCE.
C. PUMP, VALVES, AND PIPING SPECIALTIES SHALL BE LOCATED SUCH THAT THEY ARE FULLY ACCESSIBLE.
D. ARRANGEMENT SHOWN IS FOR TWO COILS BUT IS APPLICABLE FOR TWO OR MORE COILS.

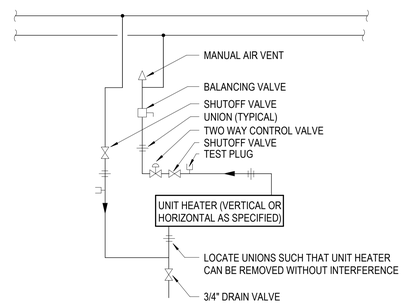
8 HOT WATER PREHEAT COIL PIPING
NOT TO SCALE



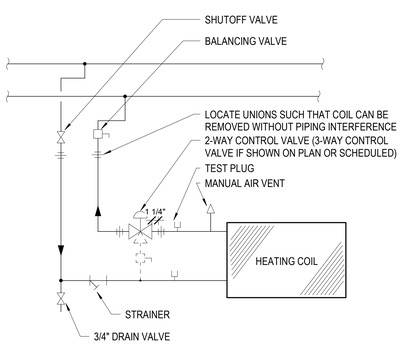

DESIGNER NOTES:

A. UNIT PIPED WITH 2-WAY CONTROL VALVE.

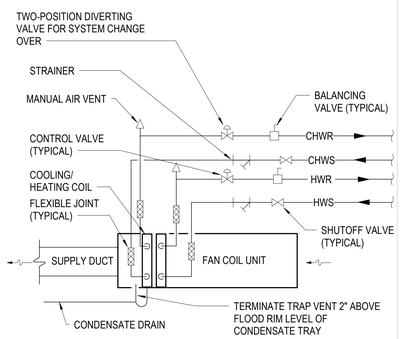
9 HOT WATER CABINET UNIT HEATER PIPING
NOT TO SCALE




10 HOT WATER UNIT HEATER
NOT TO SCALE



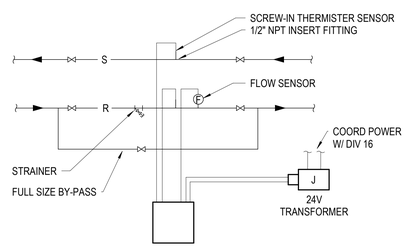

11 HOT WATER DUCT COIL PIPING
NOT TO SCALE




GENERAL NOTES:

1. LOCATE MANUAL AIR VENT AT HIGH POINT OF PIPING SERVING THE UNIT.

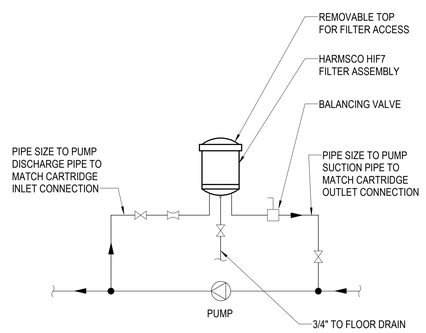
12 FOUR-PIPE FAN COIL PIPING
NOT TO SCALE



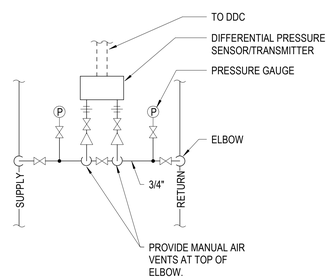

GENERAL NOTES:

A. ENERGY MONITOR IN AN ACCESSIBLE ROOM MOUNT AT 60" AFF.

13 BTU METER
NOT TO SCALE




14 BYPASS FILTER/CHEMICAL FEED PIPING
NOT TO SCALE




15 DIFFERENTIAL PRESSURE SENSOR
NOT TO SCALE

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WAYNE STATE UNIVERSITY

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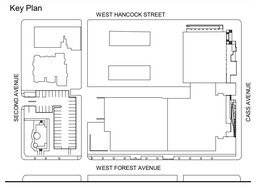
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## MECHANICAL DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: NOT TO SCALE

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

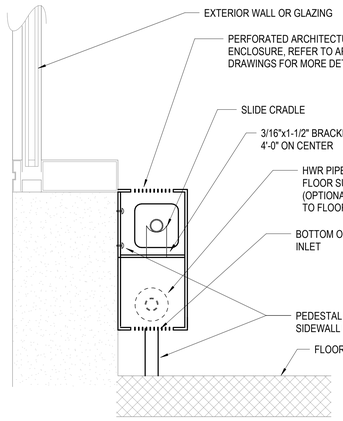
Signature:

Drawing No:

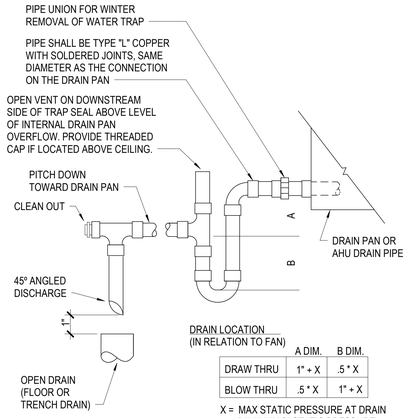
M7.0

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 FIN-TUBE RADIATION - MECH ENCLOSURE
NOT TO SCALE

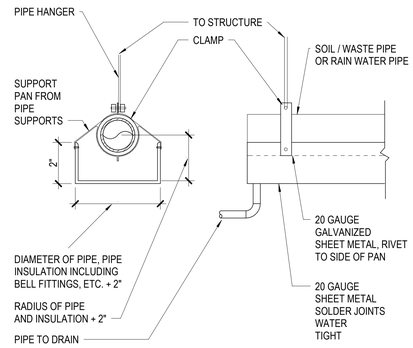



DRAIN LOCATION (IN RELATION TO FAN)

| | A DIM. | B DIM. |
|---|---|---|
| DRAW THRU | 1" + X | .5 * X |
| BLOW THRU | .5 * X | 1" + X |

X = MAX STATIC PRESSURE AT DRAIN (MINIMUM 3" STATIC PRESSURE)

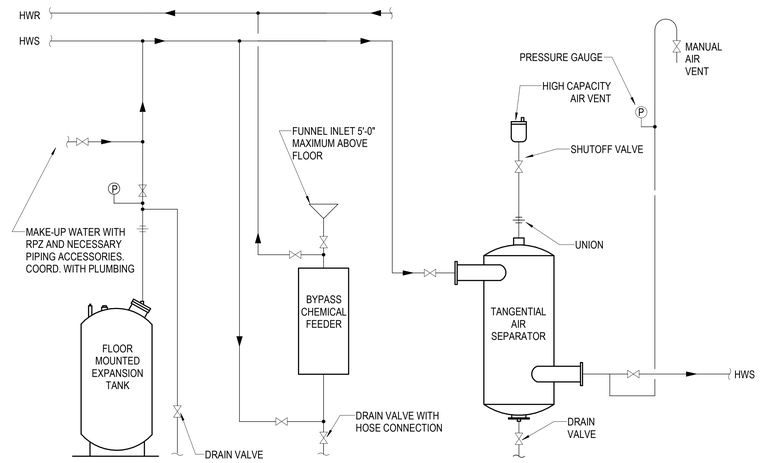
2 COOLING COIL DRAIN PIPING AND TRAP
NOT TO SCALE



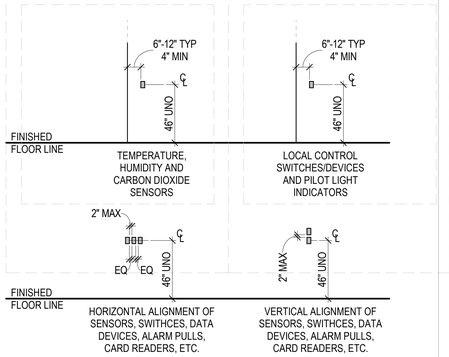

GENERAL NOTES:

A. INSTALL BELOW PIPING WHERE SHOWN ON DRAWINGS.

3 PIPE DRAIN PAN DETAIL
NOT TO SCALE



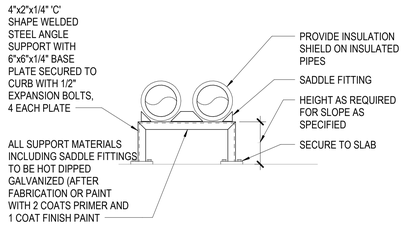

4 EXPANSION TANK, CHEMICAL PUMP, AND AIR SEPARATOR
NOT TO SCALE




NOTES:

1. VERTICAL ALIGNMENT OF SENSORS SHALL ONLY BE USED WHERE SPACE DOES NOT PERMIT THE HORIZONTAL ALIGNMENT OF SENSORS, OR WHERE SPECIFICALLY NOTED TO BE ALIGNED VERTICALLY.
2. REFER TO MECHANICAL PLANS AND DETAILS AS WELL AS ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, ETC FOR SPECIFIC INSTANCES WHERE MECHANICAL SENSORS, CONTROL DEVICES AND INDICATOR LIGHTS ARE NOTED TO BE AT DIFFERENT ELEVATIONS OR ALIGNMENTS.
3. ENSURE ALL DEVICES ARE COORDINATED WITH MARKER BOARDS, MIRRIORS, TAC BOARDS, SIGNAGE, ETC. REFER TO ARCHITECTURAL AND INTERIORS DRAWINGS.

5 MECHANICAL DEVICE MOUNTING HEIGHTS AND ALIGNMENT
NOT TO SCALE




6 EXTERIOR ON GRADE PIPE SUPPORT
NOT TO SCALE

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
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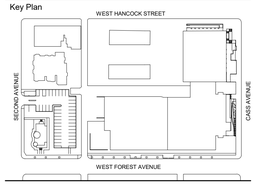
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MECHANICAL DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

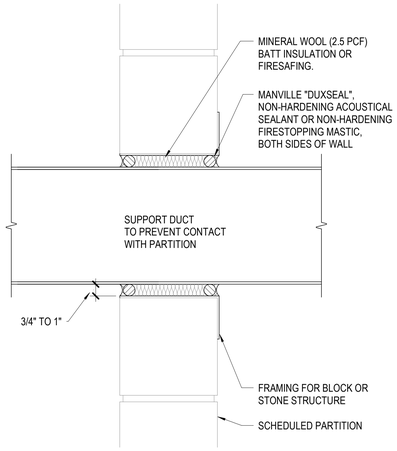
Signature: _____

Drawing No:

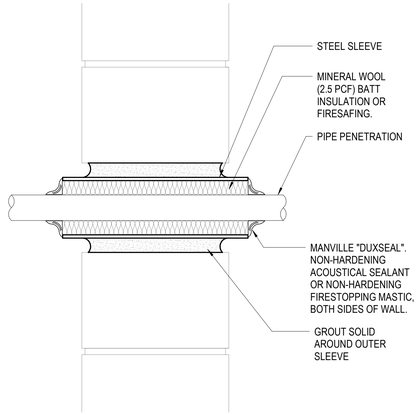
# M7.1

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
: Template Version



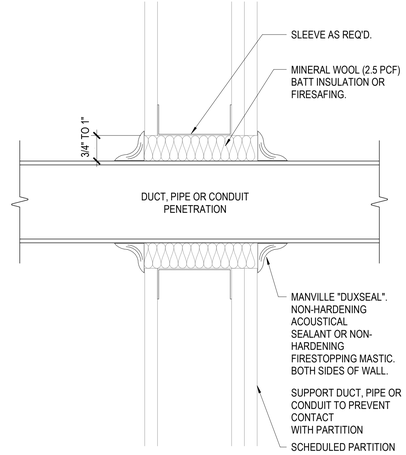

1 ACOUSTIC WALL PENETRATION - DUCT THRU CMU
NOT TO SCALE



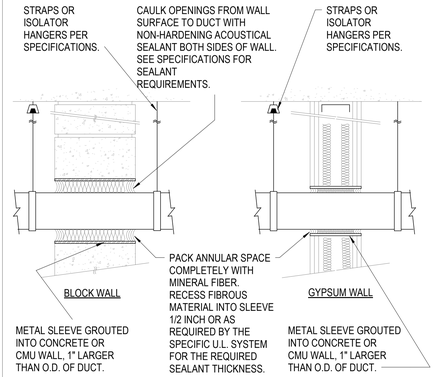

GENERAL NOTES:

A. SUPPORT PIPE TO PREVENT CONTACT WITH WALL STRUCTURE.

2 ACOUSTIC WALL PENETRATION - PIPE THRU CMU
NOT TO SCALE



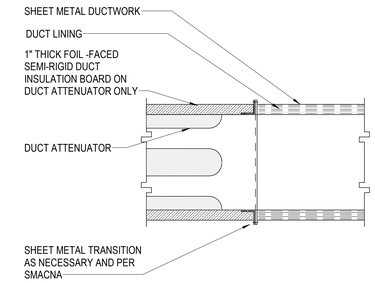

3 ACOUSTIC WALL PENETRATION - STUD WALL
NOT TO SCALE




GENERAL NOTES:

A. NO MULTIPLE DUCT PENETRATIONS ALLOWED. PACK AND CAULK EVERY DUCT INDIVIDUALLY.
B. PROVIDE SEPARATE METAL SLEEVES AT DOUBLE STUD CONSTRUCTION OR WHERE ACOUSTIC STUD WALLS ARE CONSTRUCTED ADJACENT TO CMU WALLS. METAL SLEEVE IS NOT PERMITTED TO BRIDGE LINE OF ACOUSTIC ISOLATION.

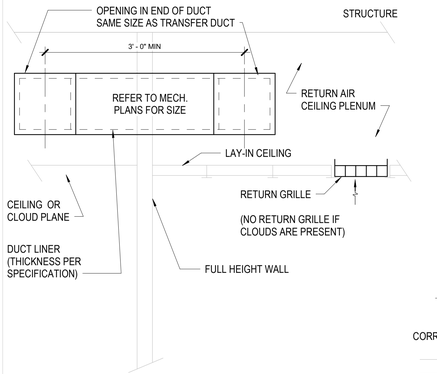
6 DUCT PENETRATION DETAIL AT ACOUSTICAL WALL
NOT TO SCALE



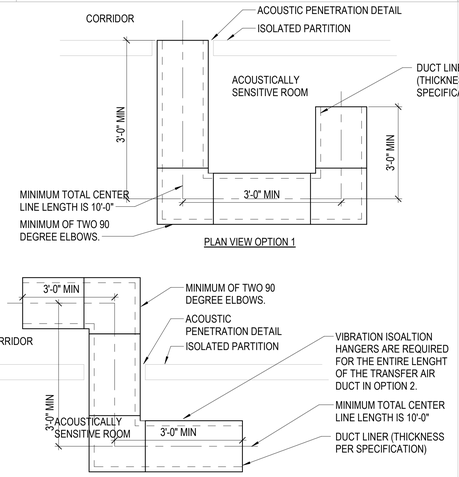

NOTES:
CONSTRUCT JUNCTION WITH INTERNAL DIMENSIONS OF LINING AND ATTENUATOR BEING EQUAL TO CREATE SMOOTH AIRFLOW SURFACED WITH NO OBSTRUCTIONS AND NO EXPOSED EDGES OF LINING.

REFER ALSO TO A0.62 FOR ADDITIONAL ACOUSTIC PENETRATION REQUIREMENTS. WHERE DETAILS DIFFER, THE MORE STRINGENT REQUIREMENT APPLIES.

10 DUCT - ATTENUATOR CONNECTION
NOT TO SCALE




SECTION VIEW

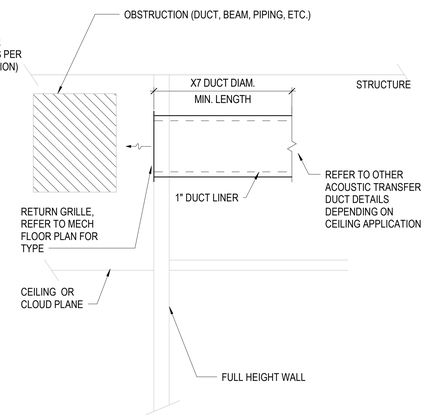



PLAN VIEW OPTION 1

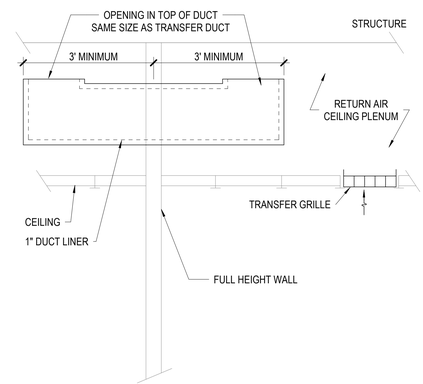



PLAN VIEW OPTION 2

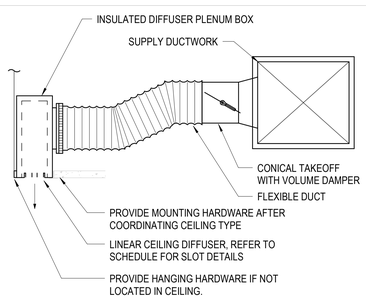
13 TRANSFER DUCT FOR ACOUSTICALLY SENSITVE SPACES
1" = 1'-0"




7 ACOUSTIC TRANSFER DUCT - SIDEWALL GRILLE
NOT TO SCALE

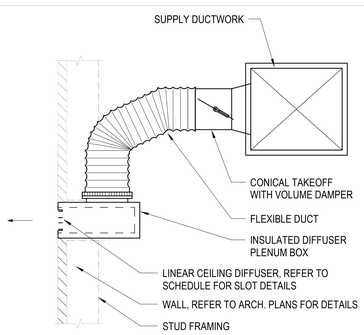



4 ACOUSTICAL TRANSFER DUCT
NOT TO SCALE



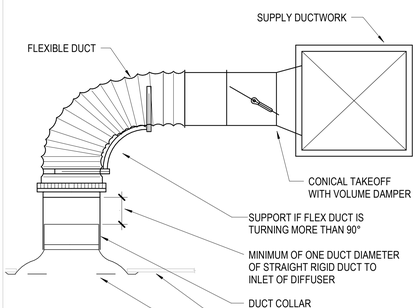

NOTES:
1. CEILING SLOT DIFFUSERS SHALL BE ARRANGED IN A CONTINUOUS PARALLEL MANNER (WHERE NOTED ON PLANS) EXTENDING ENTIRE WIDTH AS INDICATED ON MECHANICAL DRAWINGS. THERE SHALL BE NO EXPOSED FRAMES EXCEPT ON END BORDER. BLANK OFF DIFFUSERS SHALL BE USED TO ACCOMMODATE EXTRA LENGTH NEEDED FOR A CONTINUOUS APPEARANCE. COORDINATE EXACT LENGTH, CUT END DIFFUSERS TO FIT.
2. LOCATION OF SLOT DIFFUSER, DIFFUSER LENGTH, AND AIR VOLUME SHALL BE AS INDICATED ON THE DRAWINGS. REFER TO THE ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION, DETAILS AND ELEVATIONS.
3. ALL DIFFUSER INTERIOR SURFACES SHALL BE PAINTED FLAT BLACK UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DOCUMENTS. COORDINATE DIFFUSER FRAME FINISH WITH ARCHITECT.

11 LINEAR SLOT DIFFUSER - CEILING
1" = 1'-0"



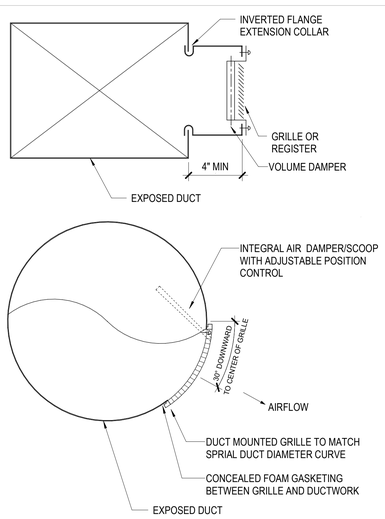

NOTES:
1. SIDEWALL SLOT DIFFUSERS SHALL BE ARRANGED IN A CONTINUOUS PARALLEL MANNER (WHERE NOTED ON PLANS) EXTENDING ENTIRE WIDTH AS INDICATED ON MECHANICAL DRAWINGS. THERE SHALL BE NO EXPOSED FRAMES EXCEPT ON END BORDER. BLANK OFF DIFFUSERS SHALL BE USED TO ACCOMMODATE EXTRA LENGTH NEEDED FOR A CONTINUOUS APPEARANCE. COORDINATE EXACT LENGTH, CUT END DIFFUSERS TO FIT.
2. LOCATION OF SLOT DIFFUSER, DIFFUSER LENGTH, AND AIR VOLUME SHALL BE AS INDICATED ON THE DRAWINGS. REFER TO THE ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION, DETAILS AND ELEVATIONS.
3. ALL DIFFUSER INTERIOR SURFACES SHALL BE PAINTED FLAT BLACK UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DOCUMENTS. COORDINATE DIFFUSER FRAME FINISH WITH ARCHITECT.

12 LINEAR SLOT DIFFUSER - SIDEWALL
1" = 1'-0"




GENERAL NOTE:
PROVIDE MANUAL VOLUME DAMPER AT ROUND TAP FROM THE SUPPLY MAIN.

8 FLEXIBLE DUCT CONNECTION/DIFFUSER
1" = 1'-0"




9 EXPOSED DUCT GRILLE CONNECTION
1" = 1'-0"

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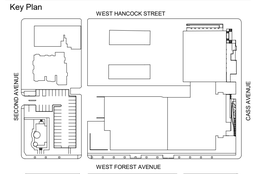
| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# MECHANICAL DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

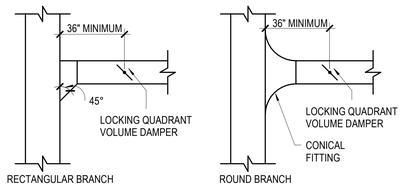
Signature:

Drawing No:

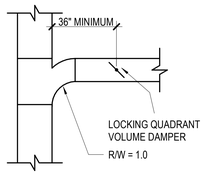
# M7.2

BIM 360://WSU Hillberry Gateway/M18 - WSU Hillberry Gateway-3995001 00.rvt

Sheet Size: 30" x 42"
- Template Version

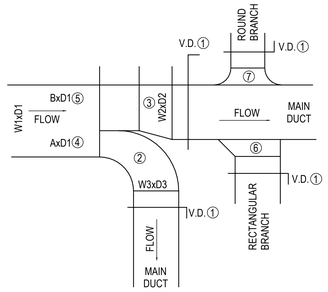



TYPICAL CONNECTION WHEN BRANCH DUCT DEPTH IS LESS THAN MAIN




TYPICAL CONNECTION WHEN BRANCH DUCT DEPTH IS THE SAME AS THE MAIN

## 1 TYPICAL BRANCH DUCT TAKE-OFF DETAILS
NOT TO SCALE

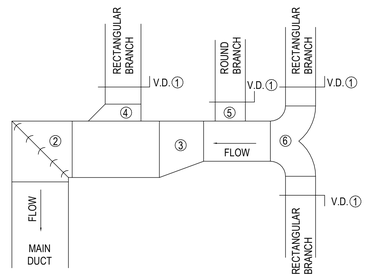



NOTE: CONSTRUCTION OF ALL DUCTWORK TO CONFORM TO S.M.A.C.N.A. DUCT CONSTRUCTION STANDARDS.

PLAN NOTES

1. VOLUME DAMPER
   RECTANGULAR DUCTS - SINGLE BLADE FOR DUCTS 12" DEEP OR LESS, MULTIPLE BLADE FOR DUCTS GREATER THAN 12" DEEP.
   ROUND DUCTS - SINGLE BLADE
2. RADIUS TRANSITION ELBOW
3. DUCT TRANSITION
4. A = [ (W3 x D3) / ((W2 x D2) + (W3 X D3)) ] x W1 ( A = 4" MIN. )
5. B = [ (W2 x D2) / ((W2 x D2) + (W3 X D3)) ] x W1
6. 45 DEGREE SHOE TAP CONNECTION, MINIMUM 6" LONG.
7. BELLMOUTH ROUND CONNECTION.

## 2 SUPPLY AIR DUCTWORK CONNECTION
NOT TO SCALE

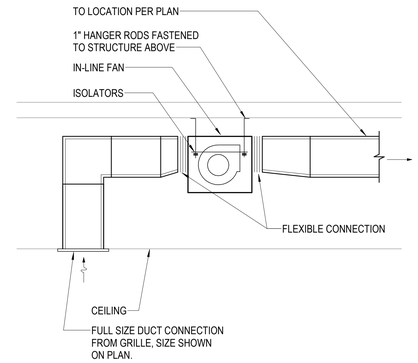



NOTE: CONSTRUCTION OF ALL DUCTWORK TO CONFORM TO S.M.A.C.N.A. DUCT CONSTRUCTION STANDARDS.

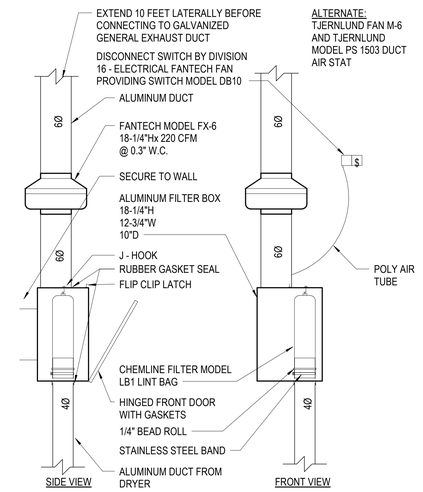
PLAN NOTES

1. VOLUME DAMPER
   RECTANGULAR DUCTS - SINGLE BLADE FOR DUCTS 12" DEEP OR LESS, MULTIPLE BLADE FOR DUCTS GREATER THAN 12" DEEP.
   ROUND DUCTS - SINGLE BLADE
2. MITERED ELBOW WITH TURNING VANES
3. DUCT TRANSITION, MAX. 20 DEGREE OFFSET ANGLE
4. 45 DEGREE SHOE TAP CONNECTION, MINIMUM 6" LONG.
5. SPIN COLLAR CONNECTION
6. RADIUS "Y" CONNECTION, INSIDE RADIUS EQUAL TO WIDTH OF DUCT.

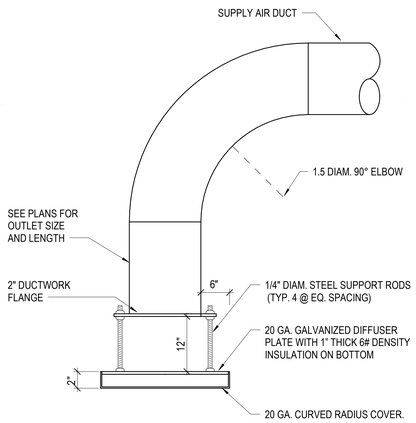
## 3 EXHAUST OR RETURN DUCTWORK CONNECTION
NOT TO SCALE




## 4 IN-LINE CABINET FAN
NOT TO SCALE

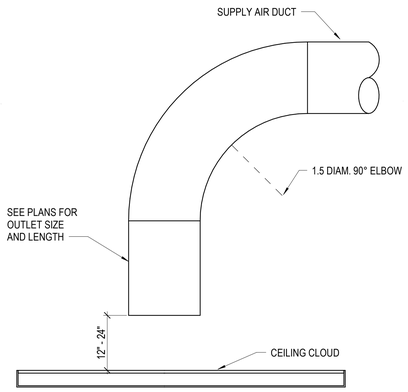



## 5 DRYER FILTER BOX WITH BOOSTER FAN
NOT TO SCALE

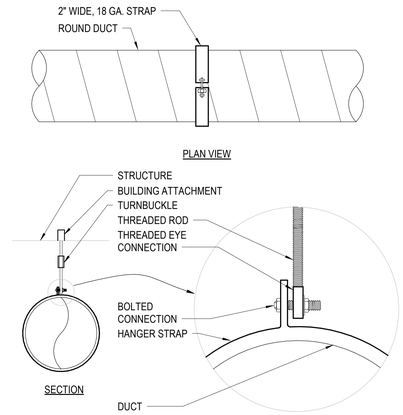



NOTE:
PAINT COVER PLATE, BOLTS, AND INSIDE DUCT SURFACES. REFER ALSO TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL DETAILS.

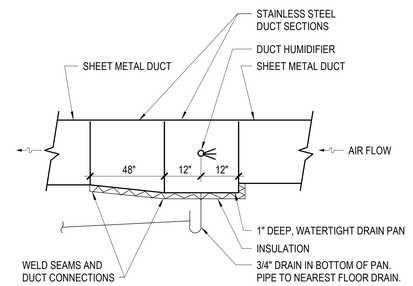
## 6 DIFFUSER PLATE DETAIL
NOT TO SCALE




## 7 OPEN DUCT OVER CLOUD DETAIL
NOT TO SCALE



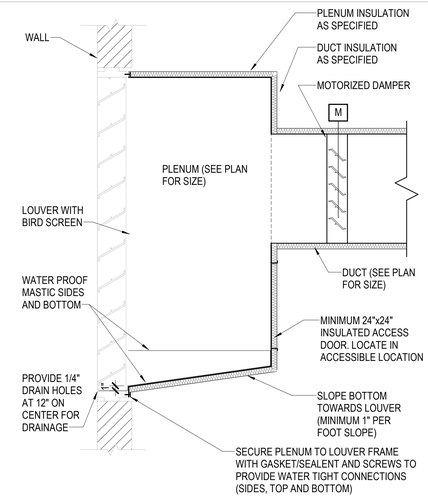

## 8 HANGERS FOR EXPOSED ROUND DUCTS
NOT TO SCALE



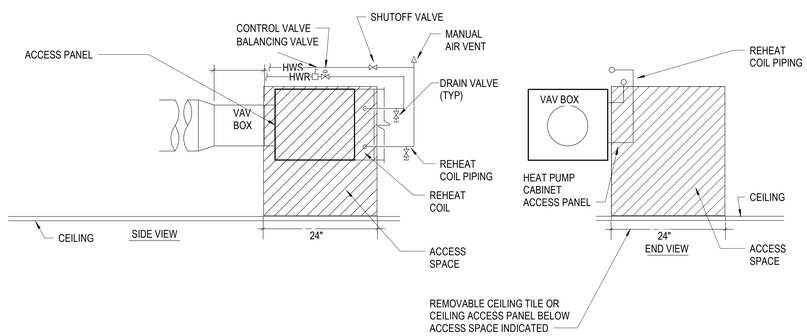

DESIGNER NOTES:

A. VERIFY DIMENSIONS. DOWNSTREAM STAINLESS STEEL DUCT SECTION MUST BE GREATER THAN VAPOR TRAIL LENGTH.
B. KEEP DUCT VELOCITY AT HUMIDIFIER LOW TO ENSURE VISIBLE VAPOR STREAM IS MINIMAL.

## 9 DUCT HUMIDIFIER
NOT TO SCALE



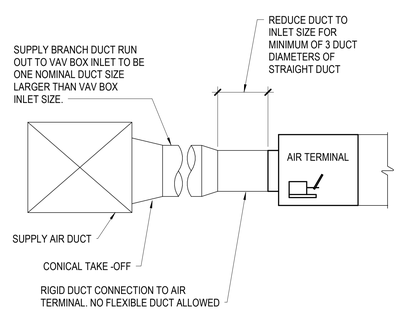

## 10 PLENUM DETAIL (DRAIN TO EXTERIOR)
NOT TO SCALE



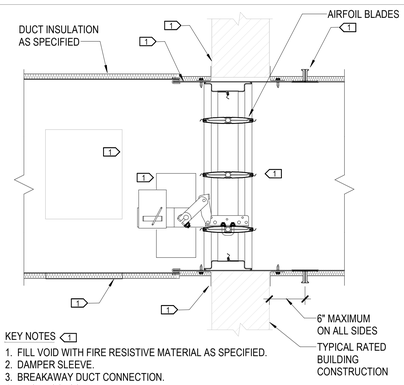

**NOTES:**

A. CROSSHATCHING INDICATES VAV BOX ACCESS SPACE. IT IS THE PRIME CONTRACTOR AND DIVISION 23 CONTRACTORS RESPONSIBILITY TO PREVENT ANY BUILDING TRADE FROM RUNNING ANYTHING THROUGH THIS ACCESS SPACE. ALL TERMINAL UNITS SHALL BE LOCATED TO ALLOW THE 24"x24" ACCESS SPACE IN THE LOCATION INDICATED WITHOUT ANY HYDRONIC, PLUMBING,PROCESS, SPRINKLER, DUCTWORK, ELECTRICAL CONDUITS, WIRES, LIGHTS, ETC, INTERFERING WITH ACCESS TO THE HEAT PUMP UNIT CONTROLS AND COIL VALVING.
B. IF, IN SOME CASES, IT IS EXTREMELY DIFFICULT TO PROVIDE 100% OF THE ACCESS SPACE INDICATED, THE CONTRACTOR(S) SHALL OBTAIN APPROVAL TO VIOLATE SPACE FROM THE OWNERS AUTHORIZED REPRESENTATIVE.

## 11 TERMINAL UNIT DUCT & PIPING CONNECTIONS & ACCESS
NOT TO SCALE




## 12 VAV UNIT DUCT CONNECTION
NOT TO SCALE



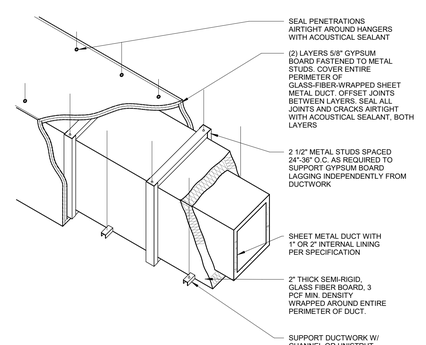

KEY NOTES 1

1. FILL VOID WITH FIRE RESISTIVE MATERIAL AS SPECIFIED.
2. DAMPER SLEEVE.
3. BREAKAWAY DUCT CONNECTION.
4. DUCT ACCESS PANEL.
5. U.L. LISTED FIRE/SMOKE DAMPER AND ASSEMBLY.
6. RETAINING ANGLES SECURED TO SLEEVE.
7. OPERATOR/ACTUATER. COORDINATE LOCATION FOR PROPER OPERATION AND ACCESS.

GENERAL NOTES:

A. THIS DETAIL IS PROVIDED FOR REFERENCE ONLY TO INDICATE MINIMUM REQUIREMENTS.
B. DAMPER INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS AND LOCAL FIRE AUTHORITY.
C. VERTICAL DUCT WITH HORIZONTAL DAMPER IF ALLOWED BY AUTHORITIES HAVING JURISDICTION IS SIMILAR.

## 13 COMBINATION FIRE/SMOKE DAMPER
NOT TO SCALE




## 14 GYPSUM BOARD DUCT LAGGING
NOT TO SCALE

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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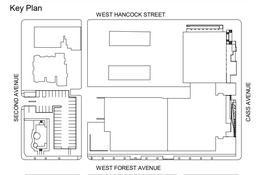
| DETROIT, MI | |


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MECHANICAL DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: NOT TO SCALE

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

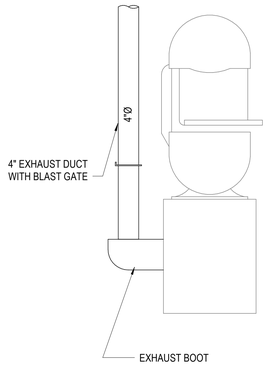
Signature:

Drawing No:

# M7.3

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001/00.rvt

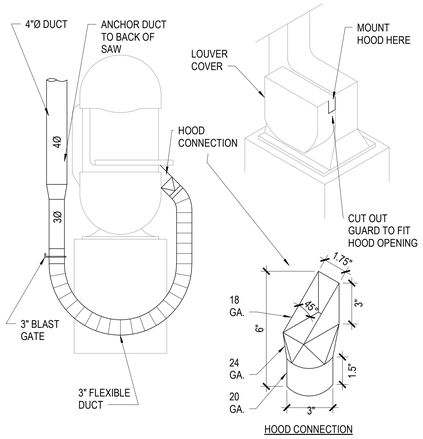
Sheet Size: 30" x 42"
: Template Version



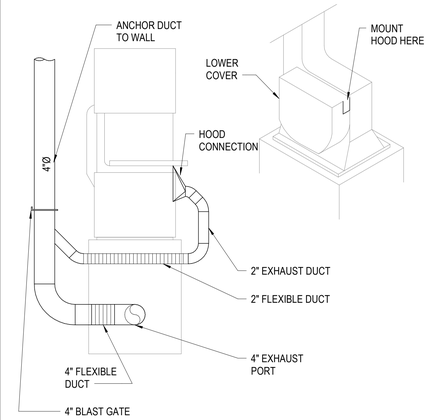

GENERAL NOTES:

A. FIELD VERIFY EXHAUST BOOT DIMENSIONS PRIOR TO FABRICATION OF ALL ASSOCIATED DUCTWORK AND CONNECTIONS. PROVIDE TRANSITIONS AS NECESSARY TO MEET DESIGN DUCT SIZES.

## 1 BANDSAW BOOT CONNECTION
NOT TO SCALE



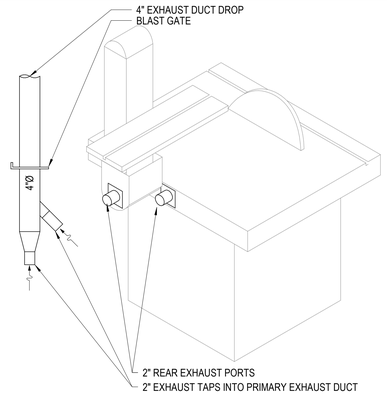

## 2 BANDSAW HOOD CONNECTION
NOT TO SCALE




GENERAL NOTES:

A. FIELD VERIFY EXHAUST PORT DIMENSIONS PRIOR TO FABRICATION OF ALL ASSOCIATED DUCTWORK AND CONNECTIONS. PROVIDE TRANSITIONS AS NECESSARY TO MEET DESIGN DUCT SIZES.

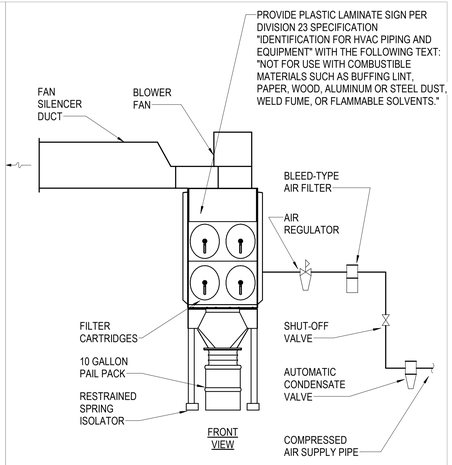
## 3 BANDSAW HOOD CONNECTION
NOT TO SCALE




GENERAL NOTES:

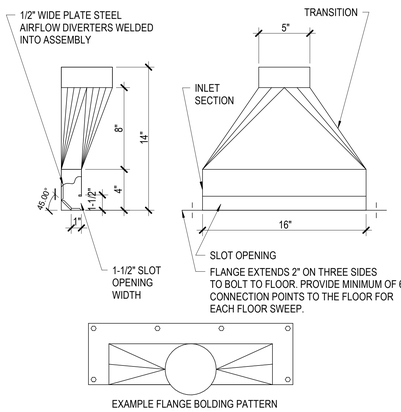
A. CONNECT 2" FLEXIBLE EXHAUST DUCT TO EXHAUST PORTS ON MACHINE(S).
B. CONNECT OTHER END OF 2" FLEXIBLE EXHAUST DUCT TO TAPS ON 4" HARD DUCT DROP AS SHOWN IN INSET. PROVIDE A 4" BLAST GATE IN THE HARD DUCT RISER NO MORE THAN 48" AFF.
C. FIELD VERIFY EXHAUST PORT DIMENSIONS PRIOR TO FABRICATION OF ALL ASSOCIATED DUCTWORK AND CONNECTIONS. PROVIDE TRANSITIONS AS NECESSARY TO MEET DESIGN DUCT SIZES.

## 4 COMBINATION BELT & DISC SANDER CONNECTION
NOT TO SCALE




NOTE:
A. REFER TO DRAWINGS FOR INLET AND OUTLET CONNECTION LOCATIONS AND SIZES.
B. ALL EQUIPMENT INSTALLED TO BE COATED WITH CORROSION RESISTANT PAINT.

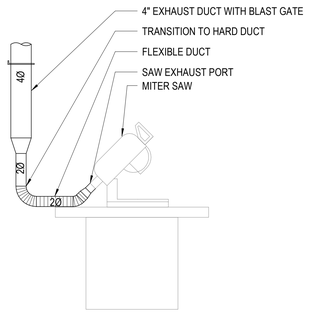
## 5 DUST COLLECTOR
NOT TO SCALE




GENERAL NOTES:

A. FLOOR SWEEP CONSTRUCTED OF 16 GAUGE GALV. SHEET BETAL, MIN.

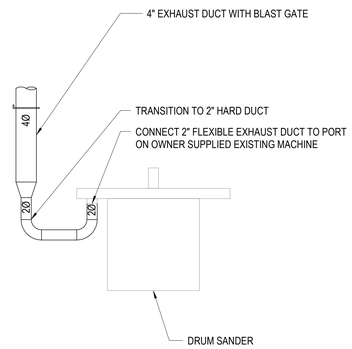
## 6 FLOOR SWEEP
NOT TO SCALE




GENERAL NOTES:

A. FIELD VERIFY EXHAUST PORT DIMENSIONS PRIOR TO FABRICATION OF ALL ASSOCIATED DUCTWORK AND CONNECTIONS. PROVIDE TRANSITIONS AS NECESSARY TO MEET DESIGN DUCT SIZES.

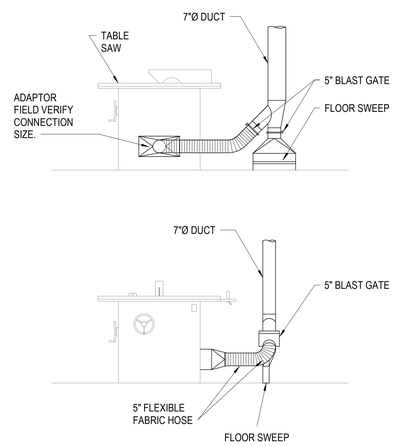
## 7 MITER SAW CONNECTION
NOT TO SCALE



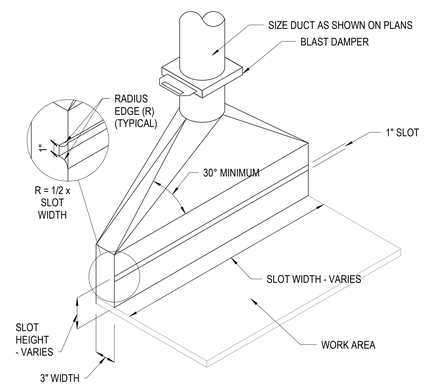

GENERAL NOTES:

A. FIELD VERIFY EXHAUST PORT DIMENSIONS PRIOR TO FABRICATION OF ALL ASSOCIATED DUCTWORK AND CONNECTIONS. PROVIDE TRANSITIONS AS NECESSARY TO MEET DESIGN DUCT SIZES.

## 8 OSCILLATING DRUM SANDER CONNECTION
NOT TO SCALE




## 9 TABLE SAW CONNECTION
NOT TO SCALE




## 10 SLOT EXHAUST - ONE SLOT
NOT TO SCALE

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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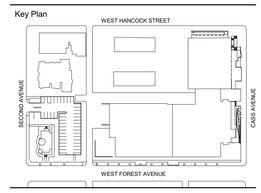
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MECHANICAL DETAILS

Project Number: 3995-001-00

Drawn By: Designer

Scale: NOT TO SCALE

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

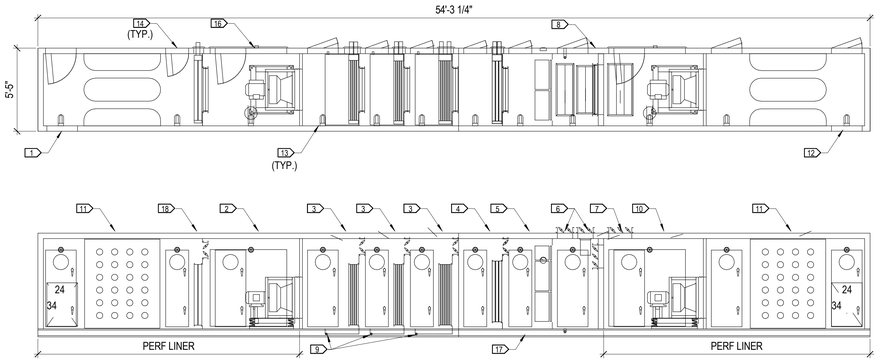
Signature:

Drawing No:

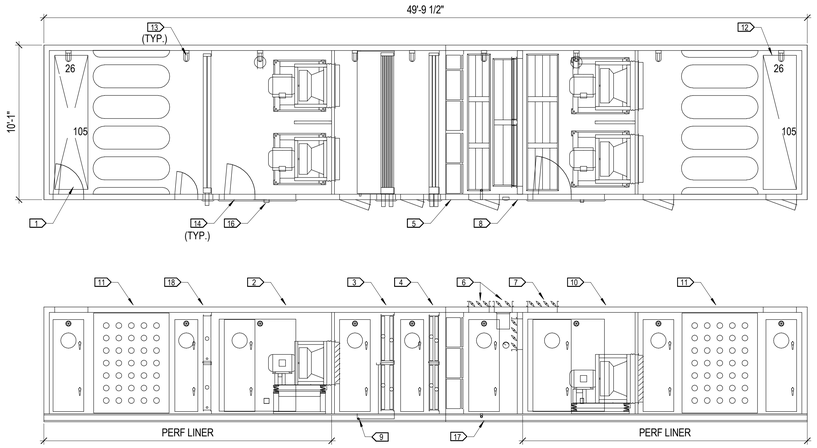
# M7.4

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001000.rvt

Sheet Size: 30" x 42"
- Template Version




1 AHU-1 DETAIL
NOT TO SCALE

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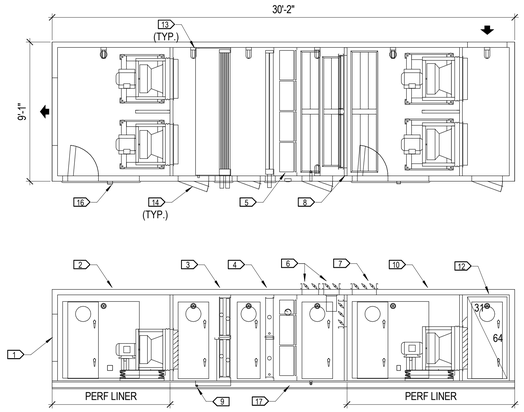
NOT TO SCALE

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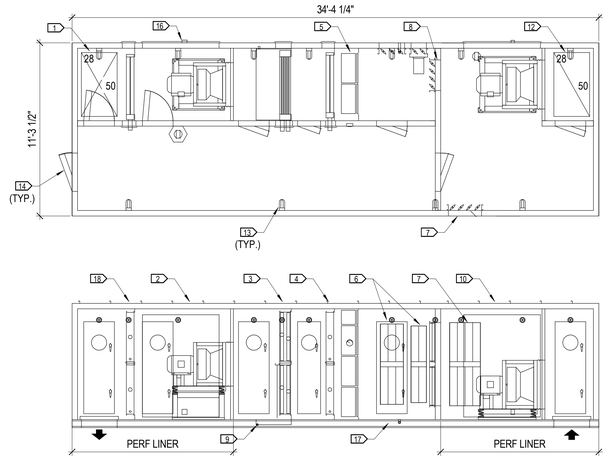
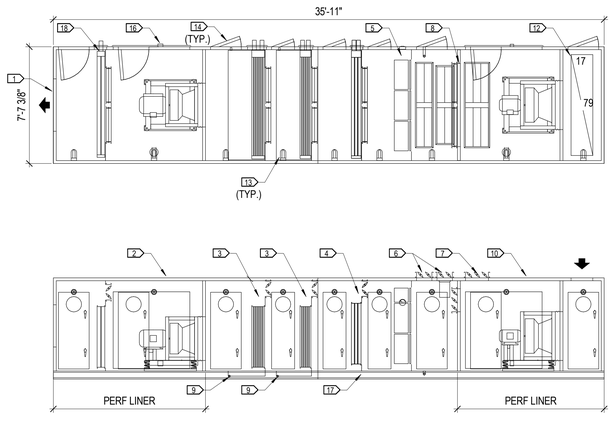
NOT TO SCALE




4 AHU-4 DETAIL
NOT TO SCALE



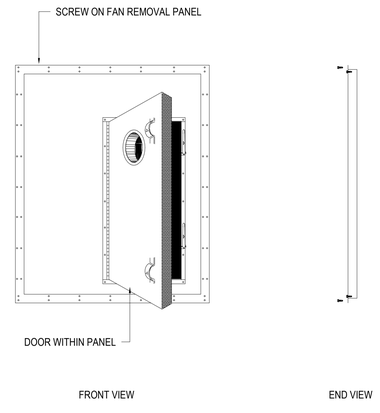

5 AHU-5 DETAIL
NOT TO SCALE

AIR HANDLING UNIT KEYNOTES: 1

1. SUPPLY AIR DISCHARGE
2. SUPPLY FAN(S)
3. COOLING COIL
4. PREHEAT COIL
5. FILTER(S)
6. OUTSIDE AIR OPENING(S)
7. RELIEF AIR DISCHARGE
8. MIXING DAMPER
9. DRAIN PAN/OUTLET
10. RETURN FAN
11. SOUND ATTENUATOR
12. RETURN AIR INTAKE
13. MARINE LIGHT
14. ACCESS DOOR
15. FAN(S) VFD
16. CONVENIENCE OUTLET
17. INTEGRAL BASE RAIL SPRING ISOLATION SUPPORT
18. REHEAT COIL

NOTES:

A. REFER ALSO TO AHU SPECIFICATIONS FOR MORE INFORMATION.
B. FINAL UNIT DIMENSIONS SHALL BE COORDINATED WITH ALL OTHER TRADES.
C. REQUIRED INTEGRAL BASE RAIL SPRING ISOLATION SUPPORTS ARE NOT SHOWN OR LOCATED IN DETAILS AND MAY REQUIRE ASSOCIATED DIMENSIONS TO CHANGE SLIGHTLY.
D. COORDINATE CONDENSATE TRAP DISCHARGE ELEVATION WITH TRAP DETAIL.




6 AHU FAN ACCESS PANEL
NOT TO SCALE

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architecture landscape architecture urban design

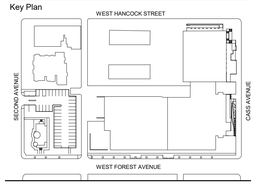
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## MECHANICAL AIR HANDLING UNIT DETAILS - BASE BID

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

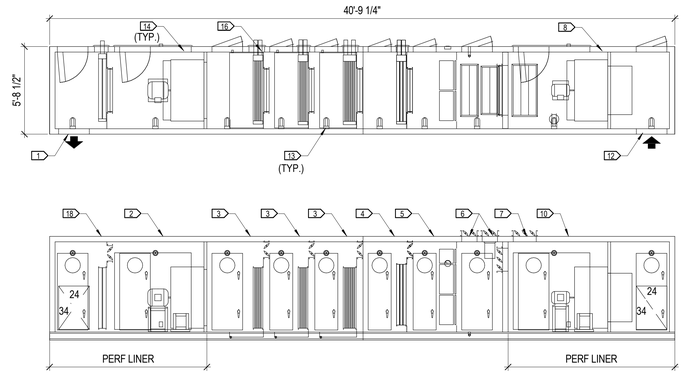
Signature:

Drawing No:

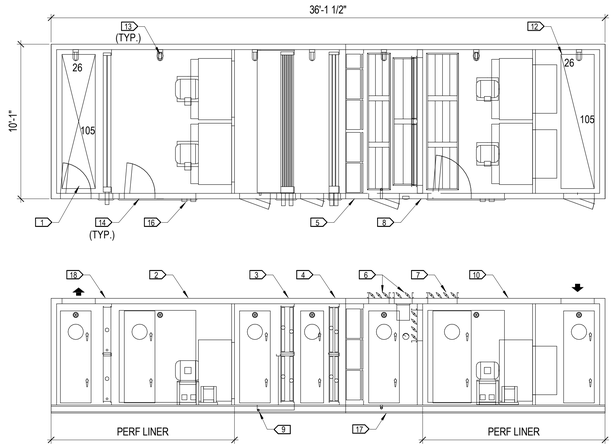
M7.10

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-v3995001100.rvt

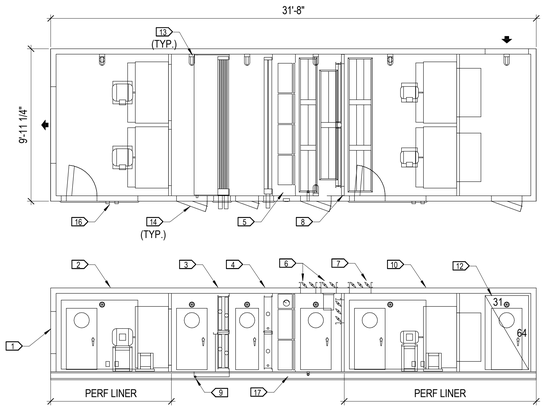
Sheet Size: 30" x 42"
- Template Version



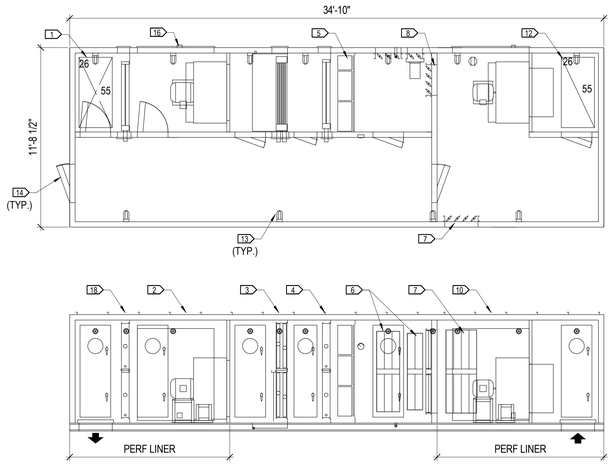

1 (ALTERNATE) AHU-1 DETAIL
NOT TO SCALE



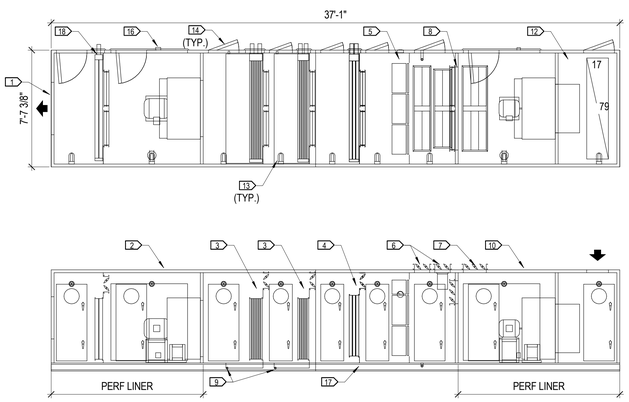

2 (ALTERNATE) AHU-2 DETAIL
NOT TO SCALE




3 (ALTERNATE) AHU-3 DETAIL
NOT TO SCALE




4 (ALTERNATE) AHU-4 DETAIL
NOT TO SCALE




5 (ALTERNATE) AHU-5 DETAIL
NOT TO SCALE

AIR HANDLING UNIT KEYNOTES: 1

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3. COOLING COIL
4. PREHEAT COIL
5. FILTER(S)
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13. MARINE LIGHT
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15. FAN(S) VFD
16. CONVENIENCE OUTLET
17. INTEGRAL BASE RAIL SPRING ISOLATION SUPPORT
18. REHEAT COIL

NOTES:

A. REFER ALSO TO AHU SPECIFICATIONS FOR MORE INFORMATION.
B. FINAL UNIT DIMENSIONS SHALL BE COORDINATED WITH ALL OTHER TRADES.
C. REQUIRED INTEGRAL BASE RAIL SPRING ISOLATION SUPPORTS ARE NOT SHOWN OR LOCATED IN DETAILS AND MAY REQUIRE ASSOCIATED DIMENSIONS TO CHANGE SLIGHTLY.
D. COORDINATE CONDENSATE TRAP DISCHARGE ELEVATION WITH TRAP DETAIL.

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WAYNE STATE UNIVERSITY

| | |
|---|---|
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| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
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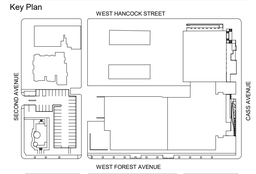
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MECHANICAL AIR HANDLING UNIT DETAILS - ALTERNATE

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# M7.11

BIM 360://WSU Hillberry Gateway/M718 - WSU Hillberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

## AIR HANDLING UNIT SCHEDULE (AHU) - PART 1

| UNIT NUMBER | AREA SERVED | SYSTEM TYPE | AIRFLOW: COOLING AIRFLOW (CFM) | AIRFLOW: HEATING AIRFLOW (CFM) | AIRFLOW: MIN. VENTILATION AIRFLOW (CFM) | AIRFLOW: RETURN AIRFLOW (CFM) | SUPPLY AIR FAN (S): FAN QUANTITY | INDIVIDUAL FAN PERFORMANCE: AIRFLOW (CFM) | TSP (IN WG) | CLASS (I, II, OR III) | FAN SPEED (RPM) | HP | BHP | SPEED CONTROL (VSD, ECM, NA) | VIBRATION ISOLATION (TYPE & DEFL) | WHEEL DIAMETER (IN) | FAN WHEEL TYPE | FAN ARRANGEMENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | STAGEHOUSE | VAV, OVERHEAD DISTRIBUTION | 7,000 | 7,000 | 7,000 | 7,000 | 1 | 7,000 | 4.00 | | 1822 | 7.5 | | VFD | SPRING | 22" | | SINGLE |
| AHU-2 | THEATER SPACES | VAV, OVERHEAD DISTRIBUTION | 23,000 | 11,000 | 7,000 | 23,000 | 2 | 11,500 | 4.30 | | 1767 | 15 | | VFD | SPRING | 24" | | ARRAY |
| AHU-3 | BACK OF HOUSE SUPPORT | VAV, OVERHEAD DISTRIBUTION | 17,000 | 9,000 | 5,000 | 17,000 | 2 | 8,500 | 3.50 | | 1780 | 10 | | VFD | SPRING | 22" | | ARRAY |
| AHU-4 | LOBBY | VAV, OVERHEAD DISTRIBUTION | 12,000 | 8,000 | 3,000 | 12,000 | 1 | 12,000 | 3.80 | | 1750 | 15 | | VFD | SPRING | 24" | | SINGLE |
| AHU-5 | WORKSHOP | VAV, OVERHEAD DISTRIBUTION | 11,500 | 11,500 | 11,500 | 11,500 | 1 | 11,500 | 4.00 | | 1777 | 15 | | VFD | SPRING | 24" | | SINGLE |

| UNIT NUMBER | RETURN AIR FAN (S): FAN QUANTITY | INDIVIDUAL FAN PERFORMANCE: AIRFLOW (CFM) | TSP (IN WG) | CLASS (I, II, OR III) | FAN SPEED (RPM) | HP | BHP | SPEED CONTROL (VSD, ECM, NA) | VIBRATION ISOLATION (TYPE & DEFL) | WHEEL DIAMETER (IN) | FAN WHEEL TYPE | FAN ARRANGEMENT | ELECTRICAL: MCA | MOCP | VOLTAGE | PHASE | SINGLE POINT CONNECTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | 1 | 7,000 | 1.75 | | 1360 | 5 | | VFD | SPRING | 22" | | | | | 480 | 3 | YES |
| AHU-2 | 2 | 11,500 | 2.50 | | 1308 | 7.5 | | VFD | SPRING | 27" | | | | | 480 | 3 | YES |
| AHU-3 | 2 | 8,500 | 1.50 | | 1213 | 5 | | VFD | SPRING | 24" | | | | | 480 | 3 | YES |
| AHU-4 | 1 | 12,000 | 1.50 | | 1213 | 7.5 | | VFD | SPRING | 27" | | | | | 480 | 3 | YES |
| AHU-5 | 1 | 11,500 | 1.50 | | 1180 | 5 | | VFD | SPRING | 27" | | | | | 480 | 3 | YES |

## AIR HANDLING UNIT SCHEDULE (AHU) - PART 2

| UNIT NUMBER | COOLING COIL: TOTAL CAPACITY (MBH) | SENSIBLE CAPACITY(MBH) | COIL FACE VELOCITY (FPM) | EAT (°F): DB | EAT (°F): WB | LAT (°F): DB | LAT (°F): WB | EFT (°F) | LFT (°F) | FLOW (GPM) | FLUID VELOCITY (FPS) | FLUID TYPE | AIR PD (IN. WG) | FLUID PD (FT WC) | MAX ROWS | FIN SPACING (FPI) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | 558 | 315 | 450 | 95.0 | 75.0 | 54.5 | 51.3 | 42 | 54 | 93 | 0 | WATER | | | 6 | 0 |
| AHU-2 | 1,236 | 734 | 450 | 83.2 | 68.0 | 54.5 | 51.7 | 42 | 54 | 206 | 0 | WATER | | | 6 | 0 |
| AHU-3 | 883 | 539 | 475 | 83.0 | 67.9 | 54.5 | 52.7 | 42 | 54 | 147 | 0 | WATER | | | 6 | 0 |
| AHU-4 | 556 | 371 | 500 | 82.3 | 67.5 | 54.5 | 53.5 | 42 | 54 | 93 | 0 | WATER | | | 6 | 0 |
| AHU-5 | 853 | 518 | 500 | 95.0 | 75.0 | 54.5 | 53.5 | 42 | 54 | 142 | 0 | WATER | | | 6 | 0 |

| UNIT NUMBER | HEATING COIL: TOTAL CAPACITY (MBH) | COIL FACE VELOCITY (FPM) | EAT (°F) | LAT (°F) | EFT (°F) | LFT (°F) | FLOW (GPM) | FLUID VELOCITY (FPS) | FLUID TYPE | AIR PD (IN WG) | FLUID PD (FT WC) | MAX ROWS | FIN SPACING (FPI) | FILTER (S) PRE: TYPE | PRE: DEPTH (IN.) | PRE: AIR PD (IN. WG) | PRE: MERV RATING | FINAL: TYPE | FINAL: DEPTH (IN.) | FINAL: AIR PD (IN. WG) | FINAL: MERV RATING |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | 611 | 450 | 3.0 | 80.0 | 140 | 120 | 61 | 0 | WATER | | | | 0 | PLEATED | 2 | 0.00 | 8 | CARTRIDGE | 12 | | 13 |
| AHU-2 | 416 | 450 | 26.6 | 60.0 | 140 | 120 | 42 | 0 | WATER | | | | 0 | PLEATED | 2 | 0.00 | 8 | CARTRIDGE | 12 | | 13 |
| AHU-3 | 287 | 475 | 31.9 | 60.0 | 140 | 120 | 29 | 0 | WATER | | | | 0 | PLEATED | 2 | 0.00 | 8 | CARTRIDGE | 12 | | 13 |
| AHU-4 | 149 | 500 | 43.6 | 60.0 | 140 | 120 | 15 | 0 | WATER | | | | 0 | PLEATED | 2 | 0.00 | 8 | CARTRIDGE | 12 | | 13 |
| AHU-5 | 743 | 500 | 3.0 | 60.0 | 140 | 120 | 74 | 0 | WATER | | | | 0 | PLEATED | 2 | 0.00 | 8 | CARTRIDGE | 12 | | 13 |

## AIR HANDLING UNIT SCHEDULE (AHU) - PART 3

| UNIT NUMBER | SOUND ACOUSTIC PERFORMANCE: RADIATED (CASING) SOUND POWER LEVEL (dB) 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | INLET SOUND POWER LEVEL (dB) 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | DISCHARGE SOUND POWER LEVEL (dB) 63Hz | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz | BASIS OF DESIGN: MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 70 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | HAAKON | INDOOR, CUSTOM | |
| AHU-2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 71 | 69 | 60 | 60 | 60 | 60 | 60 | 77 | 70 | 66 | 60 | 60 | 60 | 60 | 60 | HAAKON | INDOOR, CUSTOM | |
| AHU-3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 92 | 88 | 77 | 80 | 79 | 72 | 66 | 88 | 87 | 92 | 89 | 87 | 82 | 80 | 77 | HAAKON | INDOOR, CUSTOM | |
| AHU-4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 67 | 79 | 66 | 63 | 60 | 60 | 60 | 85 | 83 | 87 | 84 | 81 | 75 | 71 | 66 | HAAKON | INDOOR, CUSTOM | |
| AHU-5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | HAAKON | INDOOR, CUSTOM | |

## HVAC FAN SCHEDULE (FAN)

| UNIT NUMBER | ROOM / LOCATION: NAME | NUMBER | UNIT TYPE | SYSTEM TYPE | DRIVE TYPE | AIRFLOW (CFM) | ESP (IN. WG) | CLASS (I, II, OR III) | FAN SPEED (RPM) | HP | BHP | SPEED CONTROL (VSD,ECM,NA) | VIBRATION ISOLATION (TYPE & DEFL.) | WHEEL DIAMETER (IN.) | WHEEL TYPE | DISCHARGE TYPE | SOUND: RATING (SONES) | SOUND: OVERALL DBA | DAMPER TYPE (MOTORIZED, GRAVITY, NA) | CURB HEIGHT (IN.) | MAX OPERATING WEIGHT (LBS) | ELECTRICAL: VOLTAGE | ELECTRICAL: PHASE | BASIS OF DESIGN: MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | MECHANICAL PENTHOUSE | 270 | MIXED FLOW INLINE | WORKSHOP AREA EXHAUST | DIRECT | 8,000 | | | | | | VSD | | | | | | | | | | | | GREENHECK | QEID | |
| EF-2 | MECHANICAL PENTHOUSE | 270 | MIXED FLOW INLINE | PAINT BOOTH | BELT | 5,000 | | | | | | VSD | | | | | | | | | | | | GREENHECK | QEI | |
| EF-3 | MECHANICAL PENTHOUSE | 270 | CENTRIFUGAL INLINE | DYE ROOM EXHAUST | DIRECT | 500 | | | | | | VG MOTOR | | | | | | | | | | | | GREENHECK | SQ | |
| EF-4 | MECHANICAL PENTHOUSE | 270 | CENTRIFUGAL INLINE | LASER CUTTER EXHAUST | DIRECT | 400 | | | | | | VG MOTOR | | | | | | | | | | | | GREENHECK | SQ | |
| EF-5 | MECHANICAL PENTHOUSE | 270 | CENTRIFUGAL INLINE | BACK-OF-HOUSE GENERAL EXHAUST | BELT | 3,300 | | | | | | VSD | | | | | | | | | | | | GREENHECK | SQ | |
| EF-6 | SCENE PREPARATION | 177 | CENTRIFUGAL INLINE | SCENE PREP SLOT VENT | DIRECT | 500 | | | | | | NA | | | | | | | | | | | | GREENHECK | SQ | |
| EF-7 | DYE/CRAFT ROOM | 165E | CENTRIFUGAL INLINE | DRYER BOOSTER FAN | DIRECT | 150 | | | | | | NA | | | | | | | | | | | | FANTECH | DBF | |
| EF-8 | DYE/CRAFT ROOM | 165E | CENTRIFUGAL INLINE | DRYER BOOSTER FAN | DIRECT | 150 | | | | | | NA | | | | | | | | | | | | FANTECH | DBF | |
| EF-9 | DYE/CRAFT ROOM | 165E | CENTRIFUGAL INLINE | DRYER BOOSTER FAN | DIRECT | 150 | | | | | | NA | | | | | | | | | | | | FANTECH | DBF | |
| EF-10 | MECHANICAL PENTHOUSE | 270 | CENTRIFUGAL INLINE | STUDIO THEATER RESTROOMS | DIRECT | 200 | | | | | | VG MOTOR | | | | | | | | | | | | GREENHECK | SQ | |
| EF-11 | | | CENTRIFUGAL UPBLAST | CAFE EXHAUST | DIRECT | 600 | | | | | | VG MOTOR | | | | | | | | | | | | GREENHECK | CUE | UNIT MOUNTED ON 24" ROOF CURB |
| EF-12 | | | CENTRIFUGAL UPBLAST | THEATER PUBLIC RESTROOMS | DIRECT | 1,400 | | | | | | VSD | | | | | | | | | | | | GREENHECK | CUE | UNIT MOUNTED ON 24" ROOF CURB |
| EF-13 | LOADING | 185 | CENTRIFUGAL INLINE | LOADING/TRASH | DIRECT | 800 | | | | | | NA | | | | | | | | | | | | GREENHECK | SQ | |

## DUST COLLECTOR SCHEDULE (DC)

| UNIT NO. | LOCATION | UNIT TYPE | FAN: AIRFLOW | STATIC PRESSURE (IN WG) | FAN: MOTOR HP | ELECTRICAL: VOLTAGE | PHASE | FREQUENCY | BASIS OF DESIGN: MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DC-1 | LOADING DOCK | | 4000 | 6.0 | 15 | 460 V | 3 | 60 Hz | DONALDSON TORIT | DFO | 1 |

NOTES:
1. PROVIDE THE FOLLOWING ACCESSORIES:
   A. WEATHERBEND ROOF
   B. MAGNEHELIC GAUGE
   C. ACOUSTIC DIFFUSER OR SOUND DAMPENED FAN CHAMBER

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architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

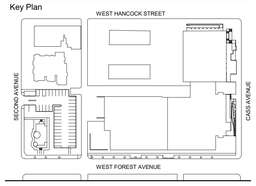
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MECHANICAL SCHEDULES

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# M8.0

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

## AIR-COOLED CHILLER SCHEDULE (ACC)

| UNIT NUMBER | LOCATION | COOLING CAPACITY TONS | COOLING CAPACITY KW/TON | EER | IPLV | COMPRESSORS TYPE | COMPRESSORS QUANTITY | COMPRESSORS UNLOADING TURNDOWN | MAX AMBIENT TEMP. (°F) | LOW AMBIENT TEMP. (°F) | REFRIGERANT TYPE | EVAPORATOR CONDITIONS EFT (°F) | EFT (°F) | FLOW (GPM) | MIN FLOW (GPM) | MAX FLUID PD (FT. WC) | FLUID TYPE | FOULING FACTOR | RELIEF VALVE (PSIG) | MAX OPERATING WEIGHT (LBS) | VIBRATION ISOLATION TYPE | DEFL. (IN.) | ELECTRICAL MCA | MOCP | VOLTAGE | PHASE | SINGLE POINT CONNECTION | BASIS OF DESIGN MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACC-1 | UTILITY YARD | 250 | 1.1 | 10.4 | 18.0 | VSD SCREW | | | 95 | 0 | R-134A | 54 | 42 | 500 | 125 | 6.5 | WATER | 0.0001 | | 22,500 | (DIV 23) | | 474 | 600 | 480 | 3 | YES | YORK | YVAA | 1 |
| ACC-2 | UTILITY YARD | 250 | 1.1 | 10.4 | 18.0 | VSD SCREW | | | 95 | 0 | R-134A | 54 | 42 | 500 | 125 | 6.5 | WATER | 0.0001 | | 22,500 | (DIV 23) | | 474 | 600 | 480 | 3 | YES | YORK | YVAA | 1 |

NOTES:
1. CHILLER SHALL BE VARIABLE SPEED DRIVE CHILLER, WITH LOW-AMBIENT COOLING KIT, ACOUSTIC ATTENUATION PACKAGE WITH ULTRA-QUIET FANS AND COMPRESSOR ATTENUATION, RESTRAINED SPRING ISOLATORS, LOUVERED UNIT PANELS, MANUFACTURER VALVES AND SWITCHERS, SINGLE-POINT POWER FEED, HOT-GAS BYPASS, BACNET INTERFACE, AND DISCONNECT SWITCH.

## PUMP SCHEDULE (P)

| UNIT NUMBER | ROOM / LOCATION NAME | ROOM / LOCATION NUMBER | SYSTEM TYPE | PUMP TYPE | PUMP DATA FLOW (GPM) | PUMP DATA FLUID TYPE | PUMP DATA FLUID PD (FT.) | PUMP DATA MIN EFF. (%) | CASING SUCT. (IN.) | CASING DISCH. (IN.) | VIBRATION ISOLATION TYPE | VIBRATION ISOLATION DEFL. (IN.) | MOTOR SPEED (RPM) | ELECTRICAL HP | BHP | VSD (Y/N) | VOLTAGE | PHASE | BASIS OF DESIGN MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHWP-1 | MECHANICAL PENTHOUSE | 270A | CHILLED WATER | BASE MOUNTED END SUCTION | 500 | WATER | 70 | 83 | 4" | 3" | (DIV 23) | | 1,747 | 15 | 10.6 | YES | 480 | 3 | BELL AND GOSSETT | 3 BD | |
| CHWP-2 | MECHANICAL PENTHOUSE | 270A | CHILLED WATER | BASE MOUNTED END SUCTION | 500 | WATER | 70 | 83 | 4" | 3" | (DIV 23) | | 1,747 | 15 | 10.6 | YES | 480 | 3 | BELL AND GOSSETT | 3 BD | |
| HWP-1 | MECHANICAL PENTHOUSE | 270A | HEATING WATER | BASE MOUNTED END SUCTION | 375 | WATER | 70 | 76 | 3" | 2 1/2" | (DIV 23) | | 1,742 | 10 | 7.5 | YES | 480 | 3 | BELL AND GOSSETT | 2.5 BB | |
| HWP-2 | MECHANICAL PENTHOUSE | 270A | HEATING WATER | BASE MOUNTED END SUCTION | 375 | WATER | 70 | 76 | 3" | 2 1/2" | (DIV 23) | | 1,742 | 10 | 7.5 | YES | 480 | 3 | BELL AND GOSSETT | 2.5 BB | |

## BOILER SCHEDULE (B)

| UNIT NUMBER | ROOM / LOCATION NAME | ROOM / LOCATION NUMBER | TYPE (CONDENSING OR STANDARD) | INPUT CAPACITY (MBH) | OUTPUT CAPACITY (MBH) | MIN EFF. (%) | DESIGN PRESS. (PSIG) | EFT (°F) | LFT (°F) | FLOW (GPM) | MIN FLOW (GPM) | FLUID PD (FT. WC) | FLUID CAPACITY (GAL.) | FLUID TYPE | RELIEF VALVE (PSIG) | BURNER TURNDOWN | FUEL FUEL TYPE | FUEL FLOW (CFH) | FUEL PRESS. (PSIG) | ELECTRICAL FLA | VOLTAGE | PHASE | BASIS OF DESIGN MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1 | MECHANICAL PENTHOUSE | 270A | CONDENSING | 3,000 | 2,850 | 95 | 60 | 120 | 140 | 300 | 25 | 7.0 | 55 | WATER | 160 | 15:1 | NATURAL GAS | 3000 | 0.5 | 10 | 120 | 1 | AERCO | BMK 3000 | 1, 2 |
| B-2 | MECHANICAL PENTHOUSE | 270A | CONDENSING | 3,000 | 2,850 | 95 | 60 | 120 | 140 | 300 | 25 | 7.0 | 55 | WATER | 160 | 15:1 | NATURAL GAS | 3000 | 0.5 | 10 | 120 | 1 | AERCO | BMK 3000 | 1, 2 |
| B-3 | MECHANICAL PENTHOUSE | 270A | CONDENSING | 3,000 | 2,850 | 95 | 60 | 120 | 140 | 300 | 25 | 7.0 | 55 | WATER | 160 | 15:1 | NATURAL GAS | 3000 | 0.5 | 10 | 120 | 1 | AERCO | BMK 3000 | 1, 2 |

NOTES:
1. PROVIDE THE FOLLOWING BOILER ACCESSORIES: CONDENSATE TRAP, CONDENSATE NEUTRALIZER KIT.
2. PROVIDE BOILER CONTROL SYSTEM WITH BAS INTERFACE FOR MONITORING, INTERFACE AND CONTROL.

## MINI-SPLIT HEAT PUMP SYSTEMS SCHEDULE (HP)

| UNIT NUMBER | LOCATION | ROOM / LOCATION NAME | ROOM / LOCATION NUMBER | AIRFLOW (CFM) | MAX AMBIENT TEMP. (°F) | LOW AMBIENT TEMP. (°F) | REFRIGERANT TYPE | HEATING CAPACITY AT 47°F | HEATING CAPACITY AT 5°F | COOLING CAPACITY (MBH) | SEER | CONDENSER NUMBER | TURNDOWN RATIO | INDOOR UNIT ELECTRICAL FLA | VOLTAGE | PHASE | OUTDOOR UNIT ELECTRICAL MCA | MOCP | VOLTAGE | PHASE | BASIS OF DESIGN MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

## FAN COIL UNIT UNIT SCHEDULE (FCU)

| UNIT NUMBER | ROOM / LOCATION NAME | ROOM / LOCATION NUMBER | FAN AIRFLOW (CFM) | FAN ESP (IN. WG) | FAN HP | FAN BHP | FAN SPEED CONTROL (VSD,ECM,NA) | COOLING COIL COOLING CAPACITY, SENSIBLE (MBH) | EAT DB (°F) | EAT WB (°F) | LAT DB (°F) | LAT DB (°F) | EFT (°F) | LFT (°F) | FLOW (GPM) | MAX AIR PD (IN. WG) | MAX FLUID PD (FT. WC) | HEATING COIL CAPACITY (MBH) | EAT DB (°F) | LAT DB (°F) | EFT (°F) | LFT (°F) | FLOW (GPM) | MAX AIR PD (IN. WG) | MAX FLUID PD (FT. WC) | COIL TYPE | FILTER TYPE | MERV RATING | ELECTRICAL FLA | MCA | VOLTAGE | PHASE | BASIS OF DESIGN MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FC-1 | LOADING | 126 | 1,400 | 0.5 | 1.5 | | VSD | 42 | 78 | | 55.0 | | 42 | 54 | 0 | | | 45 | 60 | 95.0 | 120 | 100 | 0 | | | | | | 0 | | 0 | | VTS | VTS-20 | |
| FC-2 | LOADING | 126 | 4,000 | 0.65 | 5.0 | | VSD | 100 | 78 | | 55.0 | | 42 | 54 | 0 | | | 50 | 70 | 80.0 | 120 | 100 | 0 | | | | | | 0 | | 0 | | VTS | VTS-55 | |
| FC-3 | PIANO | 153 | 600 | 0.5 | 3/4 | | VSD | 9 | 78 | | 55.0 | | 42 | 54 | 0 | | | 7 | 70 | 80.0 | 120 | 100 | 0 | | | | | | 0 | | 0 | | VTS | VTS-08 | |
| FC-4 | LOADING | 185 | 1,400 | 0.5 | 1.5 | | VSD | 42 | 78 | | 55.0 | | 42 | 54 | 0 | | | 50 | 60 | 95.0 | 120 | 100 | 0 | | | | | | 0 | | 0 | | VTS | VTS-20 | |
| FC-5 | MECHANICAL PENTHOUSE | 270 | 1,800 | 0.5 | 2 | | VSD | 60 | 78 | | 55.0 | | 42 | 54 | 0 | | | 55 | 65 | 90.0 | 120 | 100 | 0 | | | | | | 0 | | 0 | | VTS | VTS-30 | |
| FC-6 | MECHANICAL PENTHOUSE | 270 | 1,800 | 0.5 | 2 | | VSD | 60 | 78 | | 55.0 | | 42 | 54 | 0 | | | 55 | 65 | 90.0 | 120 | 100 | 0 | | | | | | 0 | | 0 | | VTS | VTS-30 | |
| FC-7 | MECHANICAL PENTHOUSE | 270 | 1,800 | 0.5 | 2 | | VSD | 60 | 78 | | 55.0 | | 42 | 54 | 0 | | | 55 | 65 | 90.0 | 120 | 100 | 0 | | | | | | 0 | | 0 | | VTS | VTS-30 | |

## ELECTRIC HUMIDIFIER SCHEDULE (H)

| UNIT NUMBER | SYSTEM SERVED | UNIT TYPE | CAPACITY (LB/HR) | FLUID TYPE | AIRSTREAM CONDITIONS DB (°F) | AIRSTREAM CONDITIONS MAX RH (%) | MAX ABSORPTION DISTANCE (IN.) | MANIFOLD QUANTITY | MANIFOLD LENGTH (IN.) | ELECTRICAL VOLTAGE | PHASE | KW | BASIS OF DESIGN MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H-1 | | ELECTRODE | | | | | | | | | | | NORTEC (CONDAIR) | RS-030 | |

HamiltonAnderson
architecture landscape architecture urban design

HGA

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Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168

DETROIT, MI


Key Plan

100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MECHANICAL SCHEDULES

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

M8.1

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

## AIR TERMINAL UNIT SCHEDULE (VAV)

| UNIT NUMBER | | ROOM / LOCATION | | | BOX DATA | | | | | | | | HEATING COIL DATA | | | | | | | | | | BASIS OF DESIGN | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | TAG | NAME | NUMBER | AREA SERVED | MAX AIRFLOW (CFM) | MIN AIRFLOW (CFM) | HEATING AIRFLOW (CFM) | INLET (IN.) | OUTLET (W"XH") | MAX. NC 1.5" ΔPs | MAX AIR PD (IN. WG) | MIN AIR PD (IN. WG) | HEATING CAPACITY | FLOW (GPM) | MAX FLUID PD (FT. WC) | EAT (°F) | LAT (°F) | EFT (°F) | LFT (°F) | RUNOUT PIPE SIZE (IN.) | CONTROL VALVE TYPE | ROWS | MANUFACTURER | MODEL | NOTES |
| VAV | | CORRIDOR | 014 | | 0 | 0 | 0 | 8 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-8 | |
| VAV | | CORRIDOR | 018 | | 1,200 | 360 | 0 | 12 | 16x15 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-12 | |
| VAV | | CORRIDOR | 018 | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | CORRIDOR | 018 | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | PIANO | 153 | | 600 | 180 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | PIANO | 153 | | 800 | 240 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | METAL SHOP | 177D | | 0 | 0 | 0 | 24x16 | 38x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 90.0 | 120 | 100 | 1 1/2" | 2 WAY | | CUSTOM BUILT-UP | CUSTOM BUILT-UP | 1 |
| VAV | | METAL SHOP | 177D | | 0 | 0 | 0 | 24x16 | 38x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 90.0 | 120 | 100 | 1 1/2" | 2 WAY | | CUSTOM BUILT-UP | CUSTOM BUILT-UP | 1 |
| VAV | | CORRIDOR-2 | 160-2 | | 0 | 0 | 0 | 24x16 | 38x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 90.0 | 120 | 100 | 1" | 2 WAY | | TITUS | DESV-24X16 | |
| VAV | | | | | 0 | 0 | 0 | 8 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-8 | |
| VAV | | CORRIDOR-2 | 160-2 | | 0 | 0 | 0 | 8 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-8 | |
| VAV | | CORRIDOR-2 | 160-2 | | 0 | 0 | 0 | 12 | 16x15 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-12 | |
| VAV | | CORRIDOR-2 | 160-2 | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | CORRIDOR-2 | 160-2 | | 0 | 0 | 0 | 6 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-6 | |
| VAV | | | | | 0 | 0 | 0 | 12 | 16x15 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-12 | |
| VAV | | | | | 0 | 0 | 0 | 12 | 16x15 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-12 | |
| VAV | | CORRIDOR-2 | 160-2 | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | CORRIDOR-1 | 160-1 | | 0 | 0 | 0 | 6 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-6 | |
| VAV | | CORRIDOR-1 | 160-1 | | 0 | 0 | 0 | 12 | 16x15 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-12 | |
| VAV | | CORRIDOR-1 | 160-1 | | 0 | 0 | 0 | 14 | 20x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 1" | 2 WAY | | TITUS | DESV-14 | |
| VAV | | CORRIDOR-1 | 160-1 | | 0 | 0 | 0 | 14 | 20x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 1" | 2 WAY | | TITUS | DESV-14 | |
| VAV | | ELEC/SOUND SHOP/STOR | 181 | | 0 | 0 | 0 | 12 | 16x15 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-12 | |
| VAV | | ELEC/SOUND SHOP/STOR | 181 | | 0 | 0 | 0 | 8 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-8 | |
| VAV | | | | | 0 | 0 | 0 | 14 | 20x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 1" | 2 WAY | | TITUS | DESV-14 | |
| VAV | | METAL SHOP | 177D | | 0 | 0 | 0 | 8 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-8 | |
| VAV | | METAL SHOP | 177D | | 0 | 0 | 0 | 16 | 24x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 1" | 2 WAY | | TITUS | DESV-16 | |
| VAV | | Space | 216 | | 0 | 0 | 0 | 24x16 | 38x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 90.0 | 120 | 100 | 1 1/2" | 2 WAY | | CUSTOM BUILT-UP | CUSTOM BUILT-UP | 1 |
| VAV | | | | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | COATS | 120 | | 0 | 0 | 0 | 24x16 | 38x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 90.0 | 120 | 100 | 1 1/2" | 2 WAY | | CUSTOM BUILT-UP | CUSTOM BUILT-UP | 1 |
| VAV | | | | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | | | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | CORRIDOR-2 | 160-2 | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | | | | 0 | 0 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | Space | 216 | | 1,200 | 360 | 0 | 14 | 20x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-14 | WITH SOUND ATTENUATOR |
| VAV | | Space | 216 | | 2,200 | 660 | 0 | 14 | 20x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-14 | WITH SOUND ATTENUATOR |
| VAV | | | | | 2,000 | 600 | 0 | 16 | 24x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 1" | 2 WAY | | TITUS | DESV-16 | |
| VAV | | | | | 600 | 180 | 0 | 10 | 14x13 | 31 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-10 | |
| VAV | | MECHANICAL PENTHOUSE | 270 | | 0 | 0 | 0 | 24x16 | 38x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 90.0 | 120 | 100 | 1 1/2" | 2 WAY | | CUSTOM BUILT-UP | CUSTOM BUILT-UP | 1 |
| VAV | | MECHANICAL PENTHOUSE | 270 | | 6,000 | 1,800 | 0 | 24x16 | 38x18 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 90.0 | 120 | 100 | 1 1/2" | 2 WAY | | CUSTOM BUILT-UP | CUSTOM BUILT-UP | 1 |
| VAV | | Space | 216 | | 0 | 0 | 0 | 8 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-8 | |
| VAV | | Space | 216 | | 0 | 0 | 0 | 8 | 12x8 | 0 | 0.00 | 0.00 | 0 | 0.5 | | 55 | 95.0 | 120 | 100 | 3/4" | 2 WAY | | TITUS | DESV-8 | |

NOTES:
1. BUILT UP VAV BOX SHALL HAVE INDEPENDENT OPPOSED BLADE MOTORIZED DAMPER, AIRFLOW MEASURING STATION, AND HYDRONIC HEATING COIL.
2. PROVIDE ALLOWANCE FOR INTEGRAL SELENCERS FOR 15 VAV BOXES.

## VRF CONDENSING UNIT - AIR SOURCE SCHEDULE

| UNIT NUMBER | LOCATION | TOTAL COOLING CAPACITY @ 95°F (TONS) | HEATING CAPACITY @ -10°F (TONS) | ELECTRICAL | | | | | BASIS OF DESIGN | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MCA | MOCP | VOLTAGE | PHASE | SINGLE POINT CONN. (Y/N) | MANUFACTURER | MODEL | |
| VRF CU-1 | UTILITY YARD | 12.0 | 12 | 26.4 | 35 | 480 | 3 | YES | LG | ARUM-144 | 1 |

NOTES:
1. PROVIDE HEAT RECOVERY CONTROL MODULE WITH ISOLATION VALVES, AN ELECTRICAL DISCONNECT PER MODULE, BRANCH FITTING KITS, HAIL GUARDS, SINGLE POINT POWER CONNECTION, AND MASON SUPER W ISOLATION PAD AT CONNECTION TO CURB. PROVIDE ANY AND ALL MANUFACTURER RECOMMENDED VALVES, FITTINGS AND ACCESSORIES. PROVIDE LOW AMBIENT KIT INTAKE BAFFLES AND TOP HOOD.

## VRF - INDOOR FAN COIL UNIT SCHEDULE

| UNIT NUMBER | ROOM / LOCATION | | UNIT TYPE | FAN | | COOLING PERFORMANCE | | | | | | HEATING PERFORMANCE | | | CONDENSATE PUMP (Y/N) | ELECTRICAL | | | BASIS OF DESIGN | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | EAT | | LAT | | | | | | | | | | | |
| | NAME | NUMBER | | SUPPLY AIRFLOW (CFM) | ESP (IN. WG) | TOTAL CAPACITY (MBH) | SENSIBLE CAPACITY (MBH) | DB (°F) | WB (°F) | DB (°F) | WB (°F) | HEATING CAPACITY (MBH) | EAT (°F) | LAT (°F) | | FLA | VOLTAGE | PHASE | MANUFACTURER | MODEL | |
| VRF FC-1 | ELEV EQUIP | 015 | WALL HUNG | 250 | | 12.3 | | | | | | 13.6 | | | | | 208 | 1 | LG | ARNU-12 | 1 |
| VRF FC-2 | CUSTODIAL | 178 | WALL HUNG | 450 | | 24.2 | | | | | | 25.6 | | | | | 208 | 1 | LG | ARNU-24 | 1 |
| VRF FC-3 | ELECTRICAL | 230 | WALL HUNG | 700 | | 30.0 | | | | | | 32 | | | | | 208 | 1 | LG | ARNU-30 | 1 |
| VRF FC-4 | ELECTRICAL | 230 | WALL HUNG | 700 | | 30.0 | | | | | | 32 | | | | | 208 | 1 | LG | ARNU-30 | 1 |
| VRF FC-5 | AV RACK | 253 | WALL HUNG | 425 | | 19.1 | | | | | | 21.5 | | | | | 208 | 1 | LG | ARNU-18 | 1 |
| VRF FC-6 | DIMMER | 253 | WALL HUNG | 450 | | 24.2 | | | | | | 25.6 | | | | | 208 | 1 | LG | ARNU-24 | 1 |

NOTES:
1. PROVIDE REFRIGERANT MANAGEMENT ELECTRONIC EXPANSION VALVES, CONDENSATE DRAIN PUMPS POWERED FROM THE FAN COIL UNITS, AUXILIARY HEAT CONTACT AND REFRIGERANT ISOLATION VALVES FOR EACH FAN COIL UNIT. REFER TO CONTROL SYSTEMS SPECIFICATIONS AND OTHER SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.

## CABINET UNIT HEATER SCHEDULE (CUH)

| UNIT NUMBER | LOCATION | ROOM / LOCATION | | UNIT TYPE | FINISH (STD/CUST/FIELD) | HEATING CAPACITY (MBH) | EAT (°F) | LAT (°F) | HEATING AIRFLOW (CFM) | FLOW (GPM) | EFT (°F) | LFT (°F) | MAX FLUID PD (FT. WC) | FAN SPEED (RPM) | ELECTRICAL | | | BASIS OF DESIGN | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NAME | NUMBER | | | | | | | | | | | | POWER (HP) | VOLTAGE | PHASE | MANUFACTURER | MODEL | |
| CUH-1 | | STAIR | 090 | SURFACE MOUNT | | | | | | | | | | | | | | MODINE | WCC-012 | |
| CUH-2 | | | | WALL RECESSED | | | | | | | | | | | | | | MODINE | WCC-004 | |
| CUH-3 | | | | WALL RECESSED | | | | | | | | | | | | | | MODINE | WCC-008 | |

NOTES:
1. PROVIDE CUSTOM COLOR SELECTED BY ARCHTIECT. SIDE INLET AND SIDE OUTLET. PROVIDE CONTROLS TO BE CONTROLLED BY BAS.

## FIN TUBE RADIATION SCHEDULE (FTR)

| Tag | TYPE | HEATING | | | | | TUBE | | FINS | | FIN SPACING (FPF) | ROWS | ENCLOSURE | | | BASIS OF DESIGN | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CAPACITY (BTU/HR PER LF) | EFT (°F) | LFT (°F) | FLUID TYPE | EAT (°F) | MATERIAL | SIZE | MATERIAL | SIZE | | | HEIGHT (IN.) | GAUGE | MATERIAL | MANUFACTURER | MODEL | |
| FTR-A | PEDISTAL | | 140 | 120 | | 65 | COPPER | 3/4" | ALUMINUM | CUSTOM | 48 | 1 | 9" | 14 GA | STEEL | JAGA | MINI FREESTANDING - TYPE 11 | 1 |

NOTES:
1. PROVIDE CUSTOM COLOR SELECTED BY ARCHTIECT. PROVIDE ALL ENDCAP AND ACCESSORIES TO ACHIEVE A CONTINUOUS APPEARANCE AS SHOWN ON FLOOR PLANS.

## DUCT SILENCER SCHEDULE

| UNIT NUMBER | SERVING | TOTAL CFM | MODULE OUTTER DIMENSIONS (IN) | | | WALL CONSTRUCTION | NOTES |
|---|---|---|---|---|---|---|---|
| | | | WIDTH | LENGTH | HEIGHT | | |

NOTES:
1. PROVIDE ALLOWANCE FOR FOUR DUCT SELENCERS OF 24"W x 24"H x 72"L

## ELECTRIC FIN TUBE RADIATION SCHEDULE (EFTR)

| UNIT NUMBER | ROOM / LOCATION | | UNIT TYPE | HEATING CAPACITY (KW) | ELEMENT LENGTH (IN.) | TOTAL LENGTH (IN.) | ENCLOSURE HEIGHT (IN.) | ENCLOSURE WIDTH (IN.) | ELECTRICAL | | BASIS OF DESIGN | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAME | NUMBER | | | | | | | VOLTAGE | PHASE | MANUFACTURER | MODEL | |
| EBB-1 | | | WALL MOUNT | 3 | | 84" | | | 277 | 1 | MARLEY | DBSL | 1 |

NOTES:
1. PROVIDE CUSTOM COLOR SELECTED BY ARCHTIECT. UNIT SHALL HAVE FRONT INLET AND TOP OUTLET. PROVIDE CONTROLS TO BE CONTROLLED BY BAS.

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Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

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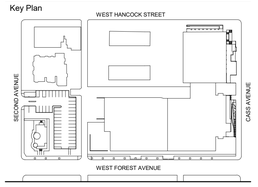
DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# MECHANICAL SCHEDULES

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# M8.2

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001/0:.rvt

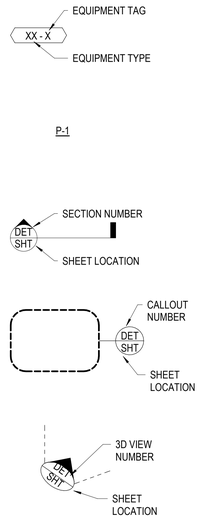
Sheet Size: 30" x 42"
- Template Version

## ABBREVIATIONS

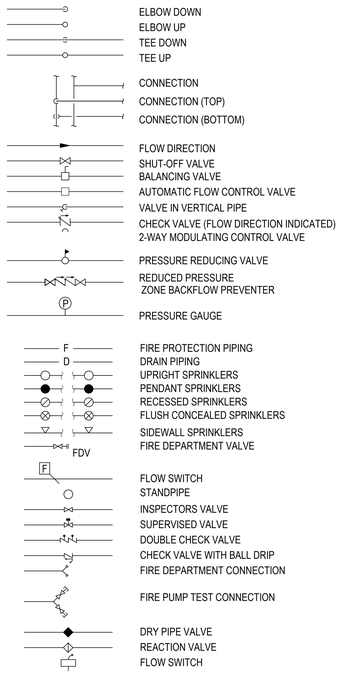
| | |
|---|---|
| **A** | |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AFMS | AIRFLOW MEASURING STATION |
| AHU | AIR HANDLING UNIT |
| ALT | ALTERNATE |
| AP | ACCESS PANEL(S) |
| APD | AIR PRESSURE DROP |
| ARCH | ARCHITECT(URAL) |
| **B** | |
| BAS | BUILDING AUTOMATION SYSTEM |
| BHP | BRAKE HORSE POWER |
| BLDG | BUILDING |
| BTUH | BRITISH THERMAL UNIT |
| BWV | BACK WATER VALVE |
| **C** | |
| CD | CONDENSATE |
| CFH | CUBIC FOOT PER HOUR |
| CFM | CUBIC FOOT PER MINUTE |
| CIP | CAST IRON PIPE |
| CLG | CEILING |
| CO | CARBON MONOXIDE |
| CO2 | CARBON DIOXIDE |
| COMB | COMBINATION |
| CONC | CONCRETE |
| COND | CONDENS(ATE) (ER) |
| CONN | CONNECTION |
| CONT | CONTINU(E) (OUS) (ATION) |
| CONTR | CONTRACT(OR) |
| CORR | CORRIDOR |
| **D** | |
| DB | DRY BULB |
| DDC | DIRECT DIGITAL CONTROL (PANEL) |
| DEG | DEGREE(S) |
| DET | DETAIL |
| DI | DEIONIZED WATER |
| DIFF | DIFFUSER |
| DMPR | DAMPER |
| DN | DOWN |
| DP | DIFFERENTIAL PRESSURE |
| DWG(S) | DRAWING(S) |
| **E** | |
| EA | EACH |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| ELEC | ELECTRIC(AL) |
| EMER | EMERGENCY |
| ESP | EXTERNAL STATIC PRESSURE |
| EWT | ENTERING WATER TEMPERATURE |
| EXG | EXISTING |
| EXH | EXHAUST |
| EXT | EXTERIOR |
| **F** | |
| F | FAHRENHEIT |
| FDC | FIRE DEPT CONNECTION |
| FFE | FINISHED FLOOR ELEVATION |
| FLR | FLOOR |
| FLEX | FLEXIBLE |
| FPM | FEET PER MINUTE |
| FPB | FAN POWERED VAV BOX |
| F&T | FLOAT AND THERMOSTATIC (TRAP) |
| FT | FOOT, FEET |
| FTG | FOOTING |
| FTR | FINNED TUBE RADIATION |
| **G** | |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GEN | GENERATOR |
| GPH | GALLON(S) PER HOUR |
| GPM | GALLON(S) PER MINUTE |
| **H** | |
| HB | HOSE BIB |
| HP | HIGH PRESSURE |
| HP | HORSEPOWER |
| HTG | HEATING |
| HTR | HEATER |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| **I** | |
| ID | INSIDE DIAMETER/DIMENSION |
| IN | INCH(ES) |
| INSUL | INSULATION |
| INV | INVERT |
| ISOL | ISOLATOR |
| **L** | |
| LAT | LEAVING AIR TEMPERATURE |
| LBS/HR | POUNDS PER HOUR |
| LF | LINEAL FOOT, FEET |
| LVR | LOUVER |
| LWT | LEAVING WATER TEMPERATURE |
| **M** | |
| MAX | MAXIMUM |
| MBH | 1000 BTUH |
| MECH | MECHANICAL(LY) |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MIN | MINUTE |
| MISC | MISCELLANEOUS |
| **N** | |
| NC | NOISE CRITERIA |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NTS | NOT TO SCALE |
| **O** | |
| OA | OUTSIDE AIR |
| OD | OUTSIDE DIAMETER/DIMENSION |
| **P** | |
| PD | PRESSURE DROP |
| PLBG | PLUMBING |
| PPM | PARTS PER MILLION |
| PRES | PRESSURE |
| PSI | POUNDS PER SQUARE INCH |
| PVC | POLYVINYL CHLORIDE |
| **R** | |
| R | RADIUS |
| RA | RETURN AIR |
| REG | REGISTER |
| REQD | REQUIRED |
| RH | RELATIVE HUMIDITY |
| RM | ROOM |
| RO | REVERSE OSMOSIS |
| RPM | REVOLUTIONS PER MINUTE |
| RPZ | REDUCED PRESSURE BACKFLOW PREVENTER |
| RTU | ROOFTOP UNIT |
| **S** | |
| SA | SUPPLY AIR |
| SF | SQUARE FEET |
| SHT | SHEET |
| SP | STATIC PRESSURE |
| SPEC(S) | SPECIFICATION(S) |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STRUC | STRUCTUR(E) (AL) |
| **T** | |
| T | THERMOSTAT |
| TCP | TEMPERATURE CONTROL PANEL |
| TEMP | TEMPERATURE |
| TMV | THERMOSTATIC MIXING VALVE |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| **V** | |
| VAV | VARIABLE AIR VOLUME |
| VENT | VENTILATION OR VENTILATOR |
| VERT | VERTICAL |
| VOL | VOLUME |
| VSD | VARIABLE SPEED DRIVE (MOTOR CONTROLLER) |
| VTR | VENT THROUGH ROOF |
| **W** | |
| W | WASTE |
| W/ | WITH |
| W/O | WITHOUT |
| WB | WET BULB |
| WC | WATER COLUMN |
| WG | WATER GAUGE |
| WH | WALL HYDRANT |
| WS | WASTE STACK |
| WTR | WATER |

NOTE:
REFER TO PIPING SYSTEM DESIGNATIONS AND EQUIPMENT SCHEDULES FOR ADDITIONAL ABBREVIATIONS.

## GENERAL SHEET ANNOTATIONS




## FIRE PROTECTION PIPING SYMBOLS




## FIRE PROTECTION GENERAL NOTES

A. IN ALL AREAS WITH EXPOSED CEILINGS, SPECIAL CARE MUST BE TAKEN IN THE INSTALLATION OF PIPING AND ANY OTHER MECHANICAL / PLUMBING EQUIPMENT. LAYOUTS MUST BE ARRANGED TO COMPLIMENT THE AESTHETICS OF THE SPACE. REFER ALSO TO ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND COORDINATION REQUIREMENTS FOR FURTHER INFORMATION FOR AESTHETIC INTENTS AND PAINTING REQUIREMENTS IN EXPOSED AREAS.
B. CAREFULLY COORDINATE ALL PIPING, FIRE PROTECTION, EQUIPMENT, CONTROLS, SUPPORTS, ETC. TO SUPPORT ACCESS, SERVICE, INSTALLATION AND MAINTENANCE OF EQUIPMENT, DEVICES, VALVES, CONTROLS, ETC. REFER ALSO TO COORDINATION REQUIREMENTS IN DRAWINGS AND SPECIFICATIONS.
C. REFER TO ARCHITECTURAL PLANS AND OTHER AREAS OF THE PLANS AND SPECIFICATIONS FOR ACOUSTICALLY SENSITIVE SPACES, WALLS AND WALL DESIGNATIONS. REFER TO ARCHITECTURAL AND MECHANICAL SPECIFICATIONS AND DETAILS FOR APPROPRIATE PENETRATIONS.
D. ACCESS PANELS ARE INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ANY EQUIPMENT, VALVES, FIELD DEVICES, ETC. NEEDING AN ACCESS PANEL NOT INDICATED ON THE DRAWINGS SHALL ALSO BE PROVIDED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL OF PANEL SIZE, DETAIL, AND PANEL LOCATION PRIOR TO INSTALLATION OF ITEM REQUIRING ACCESS.
E. MOUNTING HEIGHTS OF ANY WALL DEVICES REQUIRE FINAL LOCATION AND ELEVATION COORDINATED WITH ARCHITECTURE. REFER ALSO TO INTERIOR ELEVATIONS AND FURNITURE PLANS FOR DETAILS.
F. WHERE CONNECTING TO EXISTING SYSTEMS OR RECONFIGURING EXISTING SYSTEMS, MEASURE AND DOCUMENT PERFORMANCE OF IMPACTED SYSTEMS AT COMPLETION WORK AND BALANCE / ADJUST PERFORMANCE TO MEET CONDITIONS PRESENT PRIOR TO WORK.

## FIRE PROTECTION NOTES

A. CONTRACTOR TO PREPARE AND SUBMIT FOR ENGINEER'S APPROVAL SIGNED FIRE PROTECTION HYDRAULIC CALCULATIONS, EQUIPMENT DATA SHEETS AND MAINTENANCE & OPERATION MANUALS.
B. ALLOW FOR 10% MORE SPRINKLERS THAT CODE MINIMUM FOR FLEXIBILITY IN ARRANGEMENT AND PATTERN.
C. ALLOW FOR ADDITIONAL SPRINKLERS TO COORDINATE WITH OBSTRUCTIONS CREATED BY INSTALLED MEP SYSTEMS (DUCTWORK, CABLE TRAYS, ETC.) AS REQUIRED BY NFPA-13.

## GENERAL SYMBOLS

| | |
|---|---|
| | CONNECT TO EXISTING |
| 1 | KEY NOTE |
| 1 | REVISION TRIANGLE |
| | DATUM |
| | BREAK SYMBOL |

| PLUMBING AND FIRE PROTECTION SHEET LIST | |
|---|---|
| SHEET NUMBER | SHEET NAME |
| F0.0 | FIRE PROTECTION GENERAL NOTES AND SYMBOLS |
| F1.0 | LOWER LEVEL OVERALL PLAN - FIRE PROTECTION |
| F1.1 | LEVEL ONE OVERALL PLAN - FIRE PROTECTION |
| F1.2 | LEVEL TWO OVERALL PLAN - FIRE PROTECTION |
| F7.0 | FIRE PROTECTION SCHEDULES AND DETAILS |

NOTES:
REFER ALSO TO EM800 IN ELECTRICAL DRAWINGS FOR MORE INFORMATION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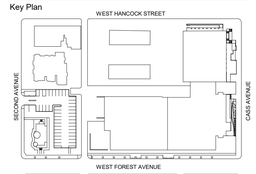
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# FIRE PROTECTION GENERAL NOTES AND SYMBOLS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1" = 1'-0"

Seal:

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Signature:

Drawing No:

# F0.0

BIM 360://WSU Hillberry Gateway/MP18 - WSU Hillberry Gateway-3995001D.rvt

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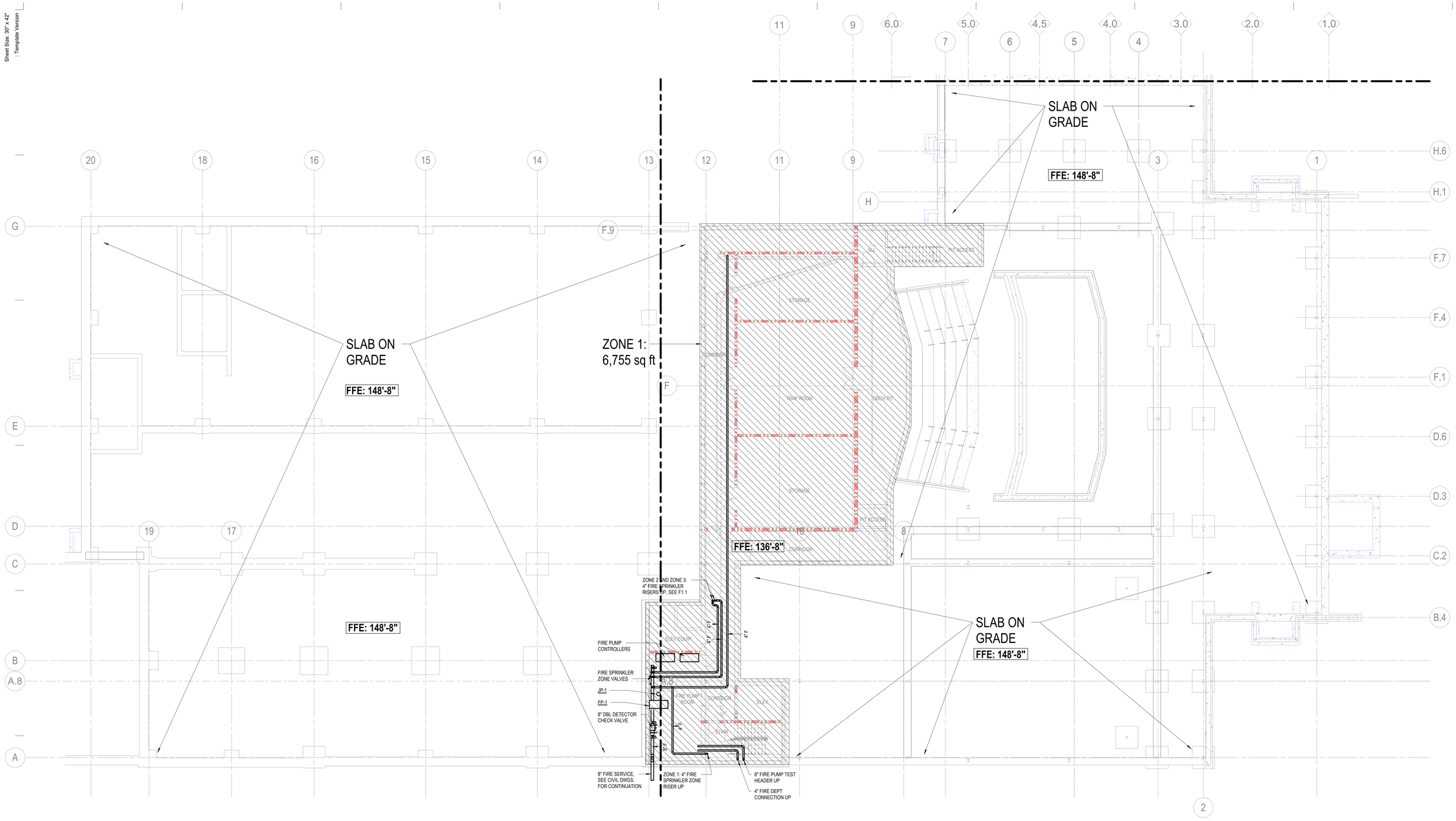
: Template Version




1 LOWER LEVEL PLAN - OVERALL PLAN - FIRE PROTECTION
3/32" = 1'-0"

NFPA-13 Sprinkler Zone Limitations:
52,000 sf Light Hazard
52,000 sf Ordianry Hazard
40,000 sf Extra Harzard

| Zone No. 1 | Zone No. 2 | Zone No. 3 (Stage Standpipe) |
|---|---|---|
| LL - 6,755 sf | LL- 0 sf | LL- 0 sf |
| L1 - 25,979 sf | L1 - 23,075 sf | L1 - 0 sf |
| L2 - 11,114 sf | L2 - 7,930 sf | L2 - 0 sf |
| 43,848 sf total | 31,005 sf total | 0 sf total |

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|---|---|
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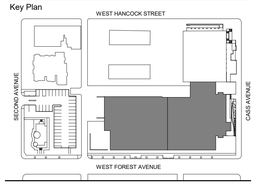
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
LOWER LEVEL OVERALL PLAN - FIRE PROTECTION

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

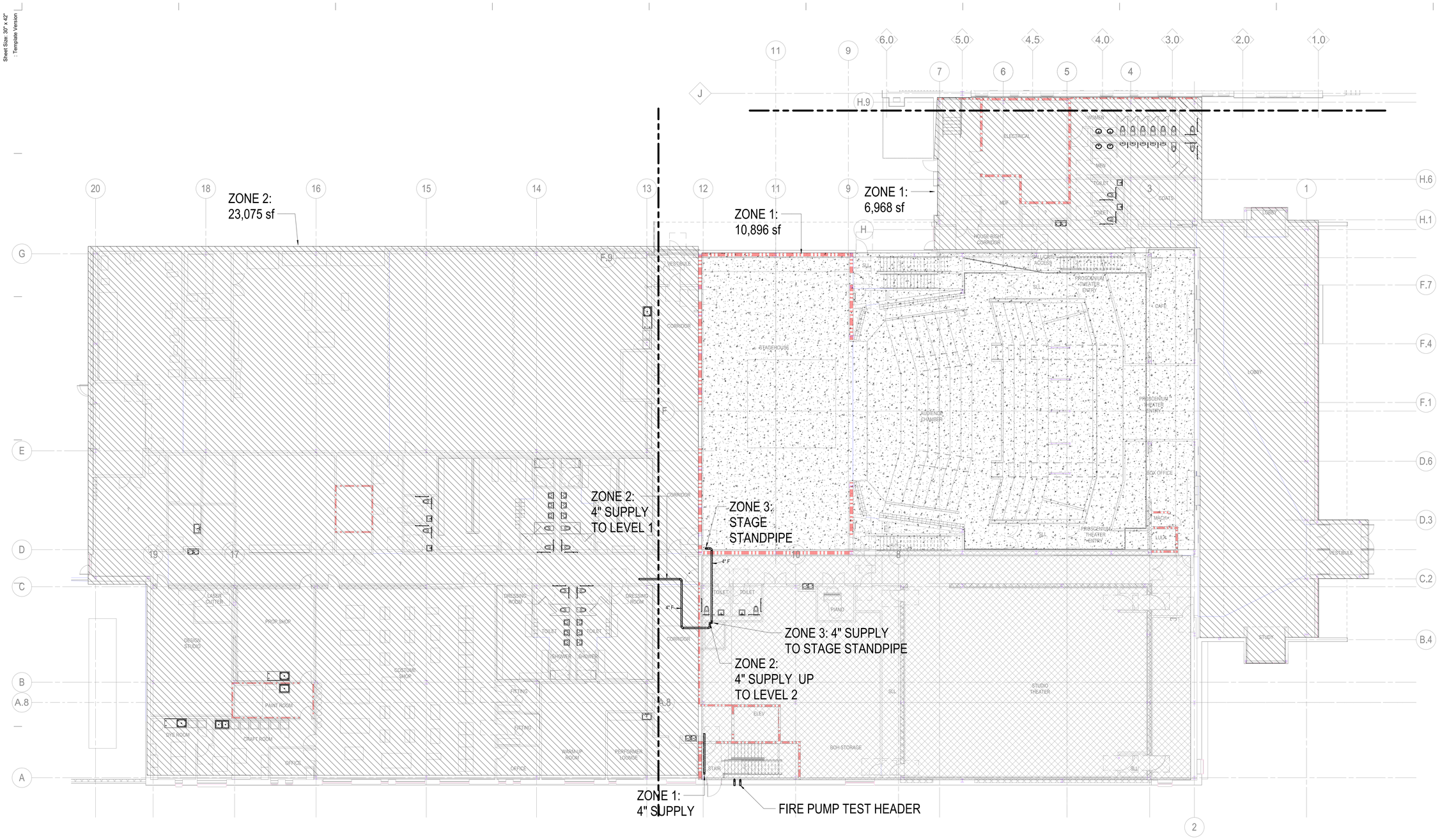
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
F1.0

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL ONE PLAN - FIRE PROTECTION
3/32" = 1'-0"

NFPA-13 Sprinkler Zone Limitations:
52,000 sf Light Hazard
52,000 sf Ordianry Hazard
40,000 sf Extra Harzard

| Zone No. 1 | Zone No. 2 | Zone No. 3 (Stage Standpipe) |
|---|---|---|
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| L1 - 25,979 sf | L1 - 23,075 sf | L1 - 0 sf |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
LEVEL ONE OVERALL PLAN - FIRE PROTECTION

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
F1.1

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
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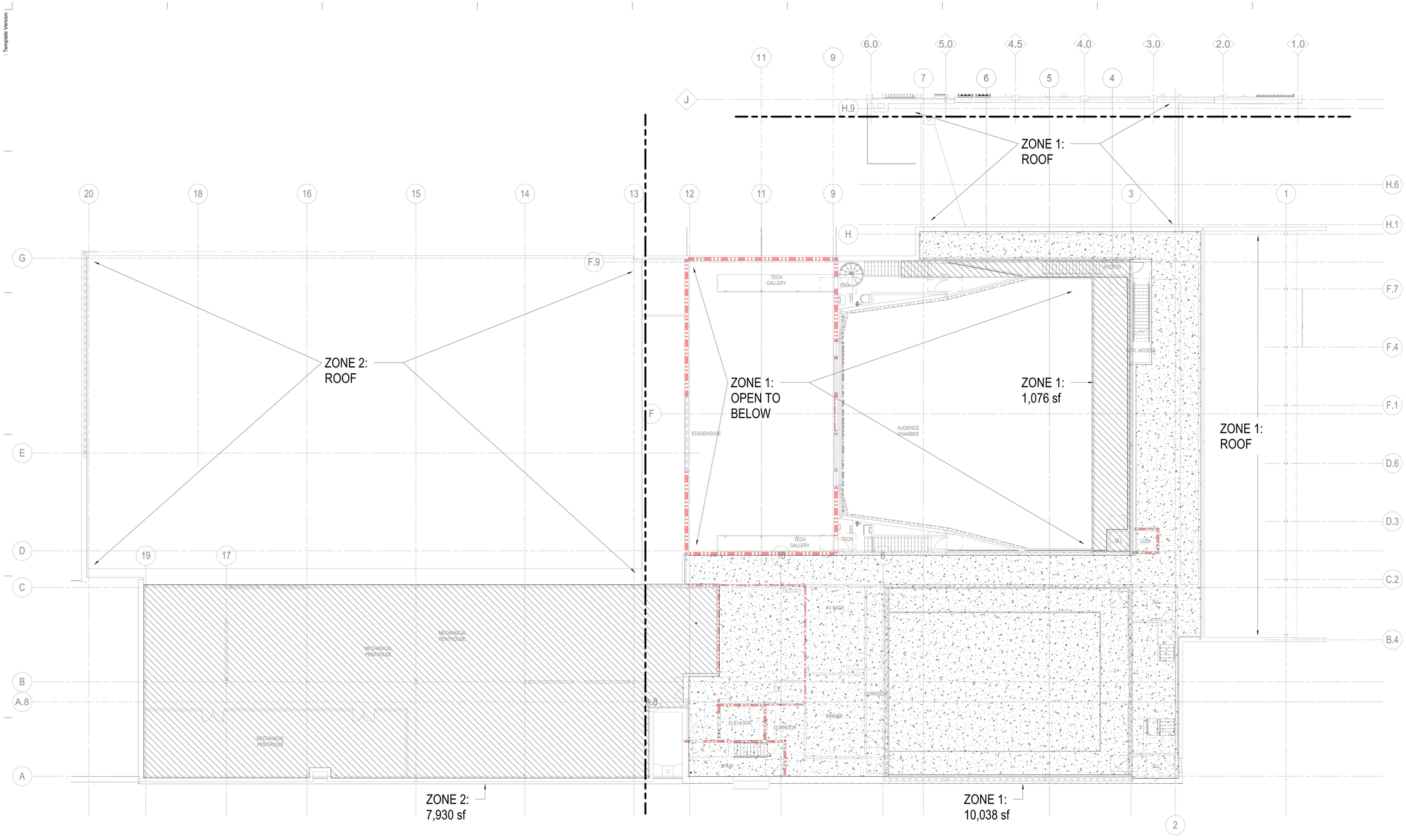


1 LEVEL TWO PLAN - OVERALL PLAN - FIRE PROTECTION
3/32" = 1'-0"

NFPA-13 Sprinkler Zone Limitations:
52,000 sf Light Hazard
52,000 sf Ordianry Hazard
40,000 sf Extra Harzard

| Zone No. 1 | Zone No. 2 | Zone No. 3 (Stage Standpipe) |
|---|---|---|
| LL - 6,755 sf | LL- 0 sf | LL- 0 sf |
| L1 - 25,979 sf | L1 - 23,075 sf | L1 - 0 sf |
| L2 - 11,114 sf | L2 - 7,930 sf | L2 - 0 sf |
| 43,848 sf total | 31,005 sf total | 0 sf total |

HamiltonAnderson
architecture landscape architecture urban design

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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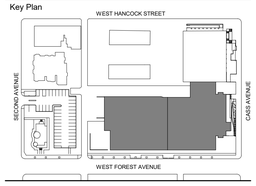
| DETROIT, MI | |

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
LEVEL TWO OVERALL PLAN - FIRE PROTECTION

Project Number: 3995-001-00
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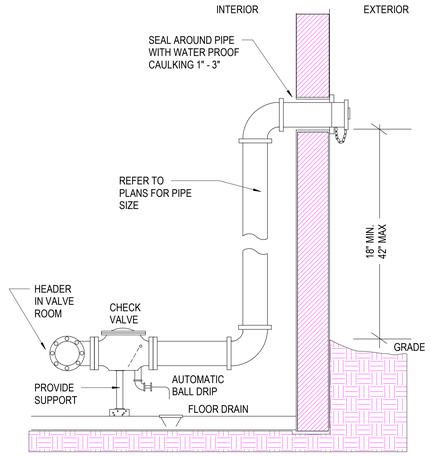
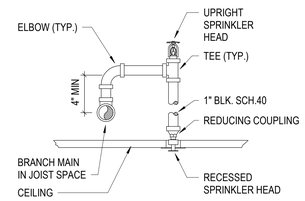
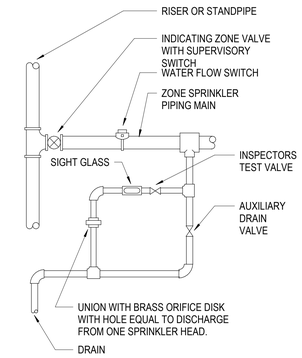


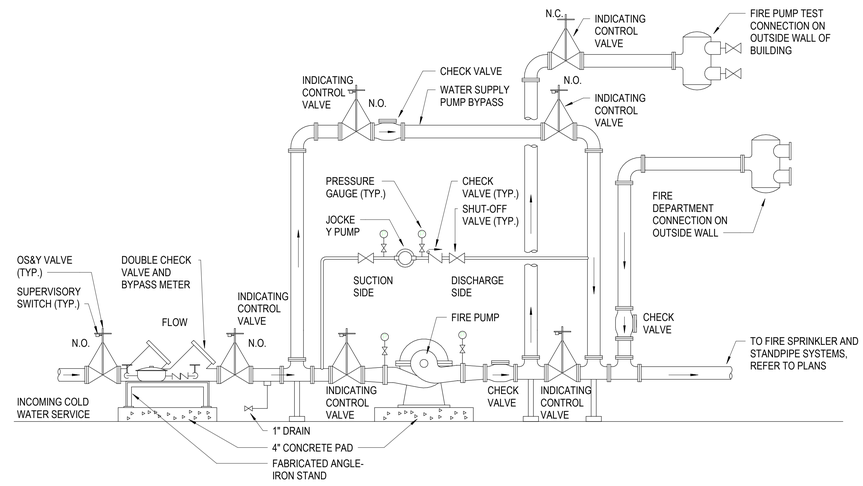

3 FIRE DEPARTMENT CONNECTION
1/8" = 1'-0"




2 FIRE SPRINKLER HEAD INSTALLATION DETAIL
1" = 1'-0"




1 FIRE SPRINKLER ZONE VALVE ASSEMBLY
1" = 1'-0"




4 FIRE PUMP
1" = 1'-0"

## FIRE AND JOCKEY PUMP SCHEDULE (FP / JP)

| UNIT TAG | LOCATION | SYSTEM DESIGN PRESSURES | | PUMP TYPE | PUMP DESIGN | | | MOTOR | | | PUMP CONNECTION | | ELECTRICAL | | | BASIS OF DESIGN | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MINIMUM SUCTION PRESSURE (PSIG) | DISCHARGE PRESSURE (PSIG) | | CAPACITY (GPM) | HEAD AT 100% (PSIG) | HEAD AT 150% (PSIG) | QTY | HP | RPM | SUCT (IN.) | DISCH (IN.) | VOLTAGE | PHASE | EMERGENCY POWER | MANUFACTURER | MODEL | |
| FP-1 | IOWER LEVEL WATER ROOM | 50 | 125 | HORIZONTAL SPLITCASE | 550 | 125 | 110 | | 50 | 3560 | 10" | 10" | | | YES | PENTAIR AURORA | 4-481-11D | PROVIDE WITH SOFT START, STEEL BASE, BRONZE FITTED WITH CAST IRON CASING, PROVIDE ALL REQUIRED FITTINGS AND ACCESSORIES TO MEET THE REQUIREMENTS OF FM GLOBAL AND NFPA. |
| FP-1 CONTROL PANEL | LOWER LEVEL WATER ROOM | | | | | | | | | | | | | | YES | PENTAIR AURORA | FTA-1930 | PROVIDE WITH SOLID-STATE TRANSFER SWITCH, NEMA TYPE 2 ENCLOSURE |
| JP-1 | LOWER LEVEL WATER ROOM | 50 | 145 | IN-LINE | 10 | 120 | 80 | | 2 | 3450 | 1-1/2" | 1-1/2" | | | | PENTAIR AURORA | PVM1-15 | PROVIDE WITH NON-MERCURY PRESSURE SWITCH TRANDUCER, ALL NECESSART PIPE FITTINGS, AND ACCESSORIES REQUIRED TO THE REQUIREMENTS OF FM GLOBAL AND NFPA. |
| JP-1 CONTROL PANEL | LOWER LEVEL WATER ROOM | | | | | | | | | | | | | | YES | FIRETRAOL | FTA550F | PROVIDE WITH SOFT START, STEEL BASE, BRONZE FITTED WITH CAST IRON CASING |

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DETROIT, MI

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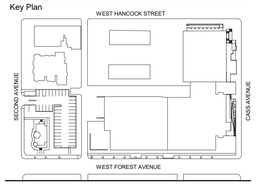


100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# FIRE PROTECTION SCHEDULES AND DETAILS

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

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Signature:

Drawing No:
# F7.0

BIM 360://WSU / Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

## ABBREVIATIONS

| | |
|---|---|
| **A** | |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AFMS | AIRFLOW MEASURING STATION |
| AHU | AIR HANDLING UNIT |
| ALT | ALTERNATE |
| AP | ACCESS PANEL(S) |
| APD | AIR PRESSURE DROP |
| ARCH | ARCHITECT(URAL) |
| **B** | |
| BAS | BUILDING AUTOMATION SYSTEM |
| BHP | BRAKE HORSE POWER |
| BLDG | BUILDING |
| BTUH | BRITISH THERMAL UNIT |
| BWV | BACK WATER VALVE |
| **C** | |
| CD | CONDENSATE |
| CFH | CUBIC FOOT PER HOUR |
| CFM | CUBIC FOOT PER MINUTE |
| CIP | CAST IRON PIPE |
| CLG | CEILING |
| CO | CARBON MONOXIDE |
| CO2 | CARBON DIOXIDE |
| COMB | COMBINATION |
| CONC | CONCRETE |
| COND | CONDENS(ATE) (ER) |
| CONN | CONNECTION |
| CONT | CONTINU(E) (OUS) (ATION) |
| CONTR | CONTRACT(OR) |
| CORR | CORRIDOR |
| **D** | |
| DB | DRY BULB |
| DDC | DIRECT DIGITAL CONTROL (PANEL) |
| DEG | DEGREE(S) |
| DET | DETAIL |
| DI | DEIONIZED WATER |
| DIFF | DIFFUSER |
| DMPR | DAMPER |
| DN | DOWN |
| DP | DIFFERENTIAL PRESSURE |
| DWG(S) | DRAWING(S) |
| **E** | |
| EA | EACH |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| ELEC | ELECTRIC(AL) |
| EMER | EMERGENCY |
| ESP | EXTERNAL STATIC PRESSURE |
| EWT | ENTERING WATER TEMPERATURE |
| EXG | EXISTING |
| EXH | EXHAUST |
| EXT | EXTERIOR |
| **F** | |
| F | FAHRENHEIT |
| FDC | FIRE DEPT CONNECTION |
| FFE | FINISHED FLOOR ELEVATION |
| FLR | FLOOR |
| FLEX | FLEXIBLE |
| FPM | FEET PER MINUTE |
| FPB | FAN POWERED VAV BOX |
| F&T | FLOAT AND THERMOSTATIC (TRAP) |
| FT | FOOT, FEET |
| FTG | FOOTING |
| FTR | FINNED TUBE RADIATION |
| **G** | |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GEN | GENERATOR |
| GPH | GALLON(S) PER HOUR |
| GPM | GALLON(S) PER MINUTE |
| **H** | |
| HB | HOSE BIB |
| HP | HIGH PRESSURE |
| HP | HORSEPOWER |
| HTG | HEATING |
| HTR | HEATER |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| **I** | |
| ID | INSIDE DIAMETER/DIMENSION |
| IN | INCH(ES) |
| INSUL | INSULATION |
| INV | INVERT |
| ISOL | ISOLATOR |
| **L** | |
| LAT | LEAVING AIR TEMPERATURE |
| LBS/HR | POUNDS PER HOUR |
| LF | LINEAL FOOT, FEET |
| LVR | LOUVER |
| LWT | LEAVING WATER TEMPERATURE |
| **M** | |
| MAX | MAXIMUM |
| MBH | 1000 BTUH |
| MECH | MECHANICAL(LY) |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MIN | MINUTE |
| MISC | MISCELLANEOUS |
| **N** | |
| NC | NOISE CRITERIA |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NTS | NOT TO SCALE |
| **O** | |
| OA | OUTSIDE AIR |
| OD | OUTSIDE DIAMETER/DIMENSION |
| **P** | |
| PD | PRESSURE DROP |
| PLBG | PLUMBING |
| PPM | PARTS PER MILLION |
| PRES | PRESSURE |
| PSI | POUNDS PER SQUARE INCH |
| PVC | POLYVINYL CHLORIDE |
| **R** | |
| R | RADIUS |
| RA | RETURN AIR |
| REG | REGISTER |
| REQD | REQUIRED |
| RH | RELATIVE HUMIDITY |
| RM | ROOM |
| RO | REVERSE OSMOSIS |
| RPM | REVOLUTIONS PER MINUTE |
| RPZ | REDUCED PRESSURE BACKFLOW PREVENTER |
| RTU | ROOFTOP UNIT |
| **S** | |
| SA | SUPPLY AIR |
| SF | SQUARE FEET |
| SHT | SHEET |
| SP | STATIC PRESSURE |
| SPEC(S) | SPECIFICATION(S) |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STRUC | STRUCTUR(E) (AL) |
| **T** | |
| T | THERMOSTAT |
| TCP | TEMPERATURE CONTROL PANEL |
| TEMP | TEMPERATURE |
| TMV | THERMOSTATIC MIXING VALVE |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| **V** | |
| VAV | VARIABLE AIR VOLUME |
| VENT | VENTILATION OR VENTILATOR |
| VERT | VERTICAL |
| VOL | VOLUME |
| VSD | VARIABLE SPEED DRIVE (MOTOR CONTROLLER) |
| VTR | VENT THROUGH ROOF |
| **W** | |
| W | WASTE |
| W/ | WITH |
| W/O | WITHOUT |
| WB | WET BULB |
| WC | WATER COLUMN |
| WG | WATER GAUGE |
| WH | WALL HYDRANT |
| WS | WASTE STACK |
| WTR | WATER |

NOTE:
REFER TO PIPING SYSTEM DESIGNATIONS AND EQUIPMENT SCHEDULES FOR ADDITIONAL ABBREVIATIONS.

## PLUMBING & FIRE PROTECTION GENERAL NOTES

A. IN ALL AREAS WITH EXPOSED CEILINGS, SPECIAL CARE MUST BE TAKEN IN THE INSTALLATION OF PIPING AND ANY OTHER MECHANICAL / PLUMBING EQUIPMENT. LAYOUTS MUST BE ARRANGED TO COMPLIMENT THE AESTHETICS OF THE SPACE. REFER ALSO TO ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND COORDINATION REQUIREMENTS FOR FURTHER INFORMATION FOR AESTHETIC INTENTS AND PAINTING REQUIREMENTS IN EXPOSED AREAS.
B. CAREFULLY COORDINATE ALL PIPING, FIRE PROTECTION, EQUIPMENT, CONTROLS, SUPPORTS, ETC. TO SUPPORT ACCESS, SERVICE, INSTALLATION AND MAINTENANCE OF EQUIPMENT, DEVICES, VALVES, CONTROLS, ETC. REFER ALSO TO COORDINATION REQUIREMENTS IN DRAWINGS AND SPECIFICATIONS.
C. REFER TO ARCHITECTURAL PLANS AND OTHER AREAS OF THE PLANS AND SPECIFICATIONS FOR ACOUSTICALLY SENSITIVE SPACES, WALLS AND WALL DESIGNATIONS. REFER TO ARCHITECTURAL AND MECHANICAL SPECIFICATIONS AND DETAILS FOR APPROPRIATE PENETRATIONS.
D. PIPING SHALL BE INSULATED TO AT LEAST MINIMUM INSULATION LEVELS REQUIRED IN THE MOST CURRENT MICHIGAN ENERGY CODE AT THE TIME OF THE BIDDING.
E. STORMWATER PIPING REQUIRES 2" OF INSULATION AT LEAST A MINIMUM OF 10' FROM ANY EXTERIOR WALL PENETRATIONS - DRAINS OR OVERFLOWS. REFER ALSO TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
F. ACCESS PANELS ARE INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ANY EQUIPMENT, VALVES, FIELD DEVICES, ETC. NEEDING AN ACCESS PANEL NOT INDICATED ON THE DRAWINGS SHALL ALSO BE PROVIDED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL OF PANEL SIZE, DETAIL, AND PANEL LOCATION PRIOR TO INSTALLATION OF ITEM REQUIRING ACCESS.
G. MOUNTING HEIGHTS OF ANY WALL DEVICES REQUIRE FINAL LOCATION AND ELEVATION COORDINATED WITH ARCHITECTURE. REFER ALSO TO INTERIOR ELEVATIONS AND FURNITURE PLANS FOR DETAILS.
H. WHERE CONNECTING TO EXISTING SYSTEMS OR RECONFIGURING EXISTING SYSTEMS, MEASURE AND DOCUMENT PERFORMANCE OF IMPACTED SYSTEMS AT COMPLETION WORK AND BALANCE / ADJUST PERFORMANCE TO MEET CONDITIONS PRESENT PRIOR TO WORK.

## FIRE PROTECTION NOTES

A. CONTRACTOR TO PREPARE AND SUBMIT FOR ENGINEER'S APPROVAL SIGNED FIRE PROTECTION HYDRAULIC CALCULATIONS, EQUIPMENT DATA SHEETS AND MAINTENANCE & OPERATION MANUALS.
B. ALLOW FOR 10% MORE SPRINKLERS THAT CODE MINIMUM FOR FLEXIBILITY IN ARRANGEMENT AND PATTERN.
C. ALLOW FOR ADDITIONAL SPRINKLERS TO COORDINATE WITH OBSTRUCTIONS CREATED BY INSTALLED MEP SYSTEMS (DUCTWORK, CABLE TRAYS, ETC.) AS REQUIRED BY NFPA-13.

## GENERAL SHEET ANNOTATIONS

EQUIPMENT TAG
XX - X
EQUIPMENT TYPE
EQUIPMENT

P-1
PLUMBING FIXTURE TAG

SECTION NUMBER
DET
SHT
SHEET LOCATION
SECTION SYMBOL

CALLOUT NUMBER
DET
SHT
SHEET LOCATION
CALLOUT SYMBOL

3D VIEW NUMBER
DET
SHT
SHEET LOCATION
3D VIEW ISOMETRIC SYMBOL

## GENERAL SYMBOLS

- CONNECT TO EXISTING
- KEY NOTE
- REVISION TRIANGLE
- DATUM
- BREAK SYMBOL
- FLOOR DRAIN
- FLOOR SINK
- TRENCH DRAIN
- ROOF DRAIN
- DEMOLISH EXISTING DUCT, PIPE OR EQUIPMENT INCLUDING SUPPORTS, ACCESSORIES AND RELATED CONTROLS AND COMPONENTS

## PLUMBING PIPING SYMBOLS

- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- TEE UP
- CONNECTION
- CONNECTION (TOP)
- CONNECTION (BOTTOM)
- FLOW DIRECTION
- SHUT-OFF VALVE
- BALANCING VALVE
- AUTOMATIC FLOW CONTROL VALVE
- VALVE IN VERTICAL PIPE
- CHECK VALVE (FLOW DIRECTION INDICATED)
- 2-WAY MODULATING CONTROL VALVE
- 3-WAY MODULATING CONTROL VALVE
- 2-WAY, 2-POSITION CONTROL VALVE
- 3-WAY, 2-POSITION CONTROL VALVE
- PRESSURE REDUCING VALVE
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- RELIEF VALVE (ELEVATION)
- RELIEF VALVE (PLAN VIEW)
- FLOW MEASURING DEVICE
- STRAINER
- STRAINER W/ BLOWDOWN VALVE
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- UNION
- PIPE ANCHOR
- PIPE GUIDE
- MANUAL AIR VENT
- ECCENTRIC REDUCER
- CONCENTRIC REDUCER
- SENSOR WELL
- TEST PLUG
- THERMOMETER
- P — PRESSURE GAUGE
- T — TEMPERATURE GAUGE
- PITCH PIPE DOWN
- STEAM TRAP
- CLEANOUT
- HOSE BIBB OR WALL HYDRANT

## PLUMBING PIPING SYSTEMS

| | |
|---|---|
| | COLD WATER (DCW) |
| | HOT WATER (DHW) |
| | RECIRCULATING HOT WATER (DRHW) |
| W | SANITARY WASTE |
| NP | NON-POTABLE WATER |
| PW | PUMPED WASTE (SEWAGE FORCE MAIN) |
| V | VENT |
| SV | SPECIAL VENT |
| AW | ACID WASTE |
| AV | ACID VENT |
| IV | INFLAMMABLE VENT |
| RW | STORM WATER/RAIN WATER |
| ORW | OVERFLOW STORM WATER/RAIN WATER |
| PS | PUMPED STORM (SEWAGE FORCED MAIN) |
| D | DRAIN |
| NG | NATURAL GAS |
| DT | DRAIN TILE |
| RO | REVERSE OSMOSIS WATER |

PLUMBING AND FIRE PROTECTION SHEET LIST

| SHEET NUMBER | SHEET NAME |
|---|---|
| P0.0 | PLUMBING GENERAL NOTES AND SYMBOLS |
| P1.0A | LEVEL ONE PLAN - SECTOR A - PLUMBING |
| P1.0B | LOWER LEVEL PLAN - SECTOR B - PLUMBING |
| P1.1A | LEVEL ONE PLAN - SECTOR A - PLUMBING |
| P1.1B | LEVEL ONE PLAN - SECTOR B - PLUMBING |
| P1.1C | LEVEL ONE PLAN - SECTOR C - PLUMBING |
| P1.2A | LEVEL TWO PLAN - SECTOR A - PLUMBING |
| P1.2B | LEVEL TWO PLAN - SECTOR B - PLUMBING |
| P1.2C | LEVEL TWO PLAN - SECTOR C - PLUMBING |
| P1.4B | ROOF PLAN - SECTOR B - PLUMBING |
| P1.4C | ROOF PLAN - SECTOR C - PLUMBING |
| P6.0 | PLUMBING ISOMETRIC DIAGRAMS |
| P7.0 | PLUMBING DETAILS |
| P7.1 | PLUMBING DETAILS |
| P8.0 | PLUMBING SCHEDULES |
| P8.1 | PLUMBING SCHEDULES |

NOTES:
REFER ALSO TO EM800 IN ELECTRICAL DRAWINGS FOR MORE INFORMATION


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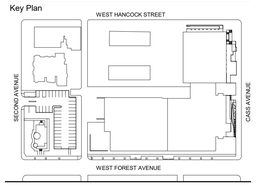


| | |
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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# PLUMBING GENERAL NOTES AND SYMBOLS

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

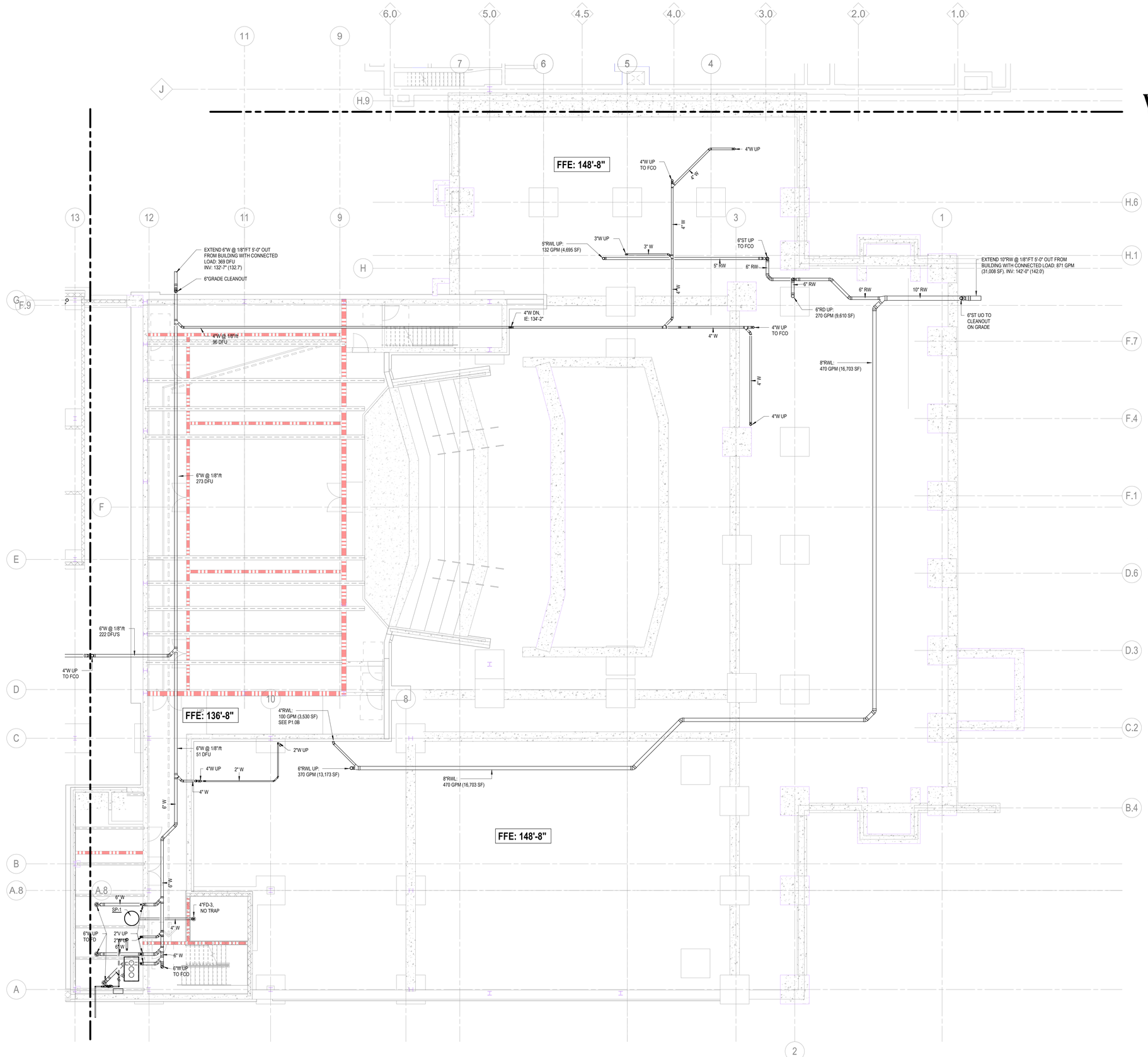
Signature:

Drawing No:

# P0.0


BIM 360://WSU Hillberry Gateway/MP18 - WSU Hillberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




1 UNDERGROUND PLAN - SECTOR B - PLUMBING
1/8" = 1'-0"

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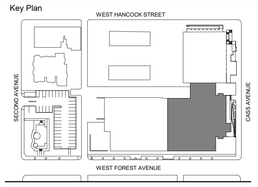
WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## UNDERGROUND PLAN - SECTOR B - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

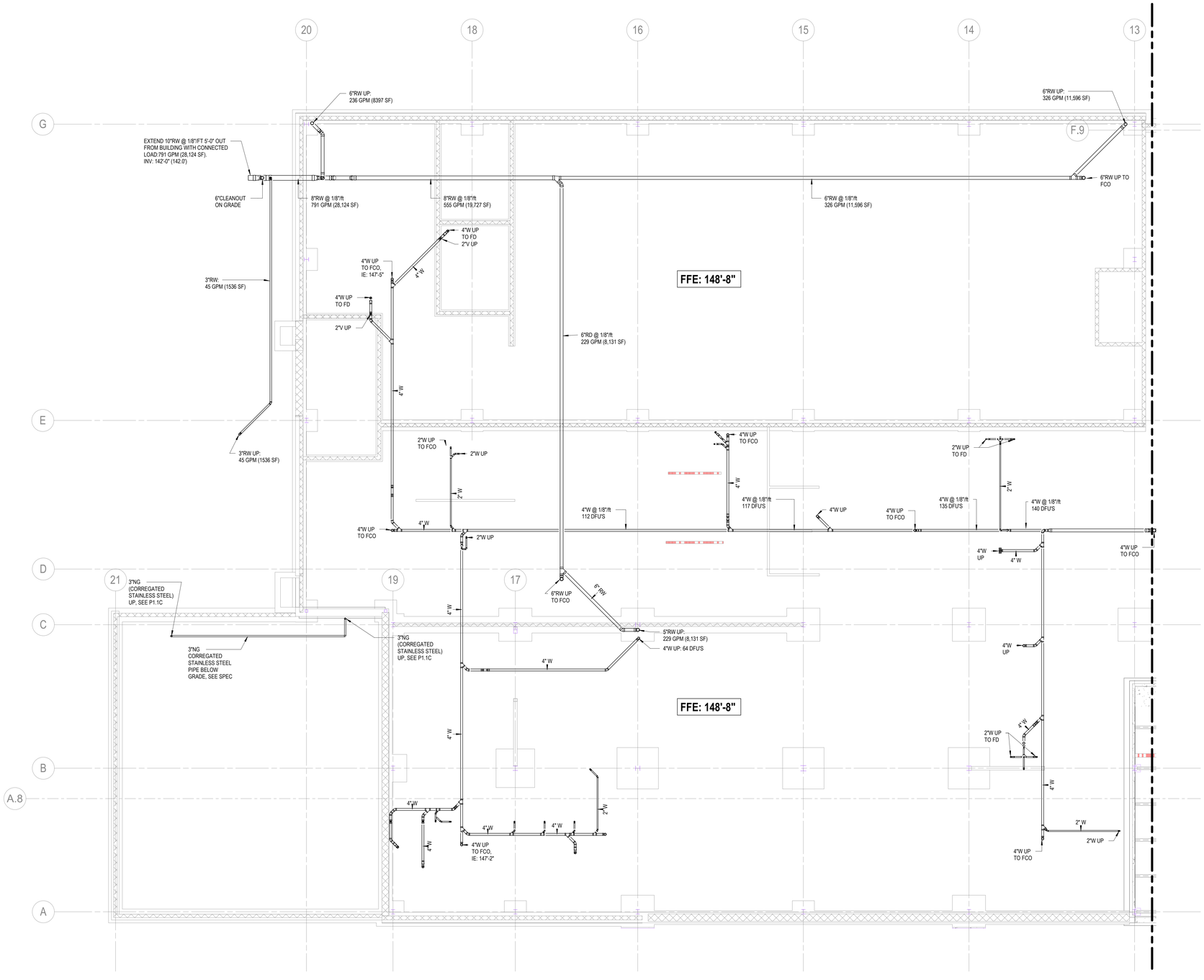
Signature:

Drawing No:

P0.0B

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 UNDERGROUND PLAN - SECTOR C - PLUMBING
1/8" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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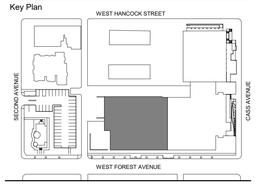
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# UNDERGROUND PLAN - SECTOR C - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

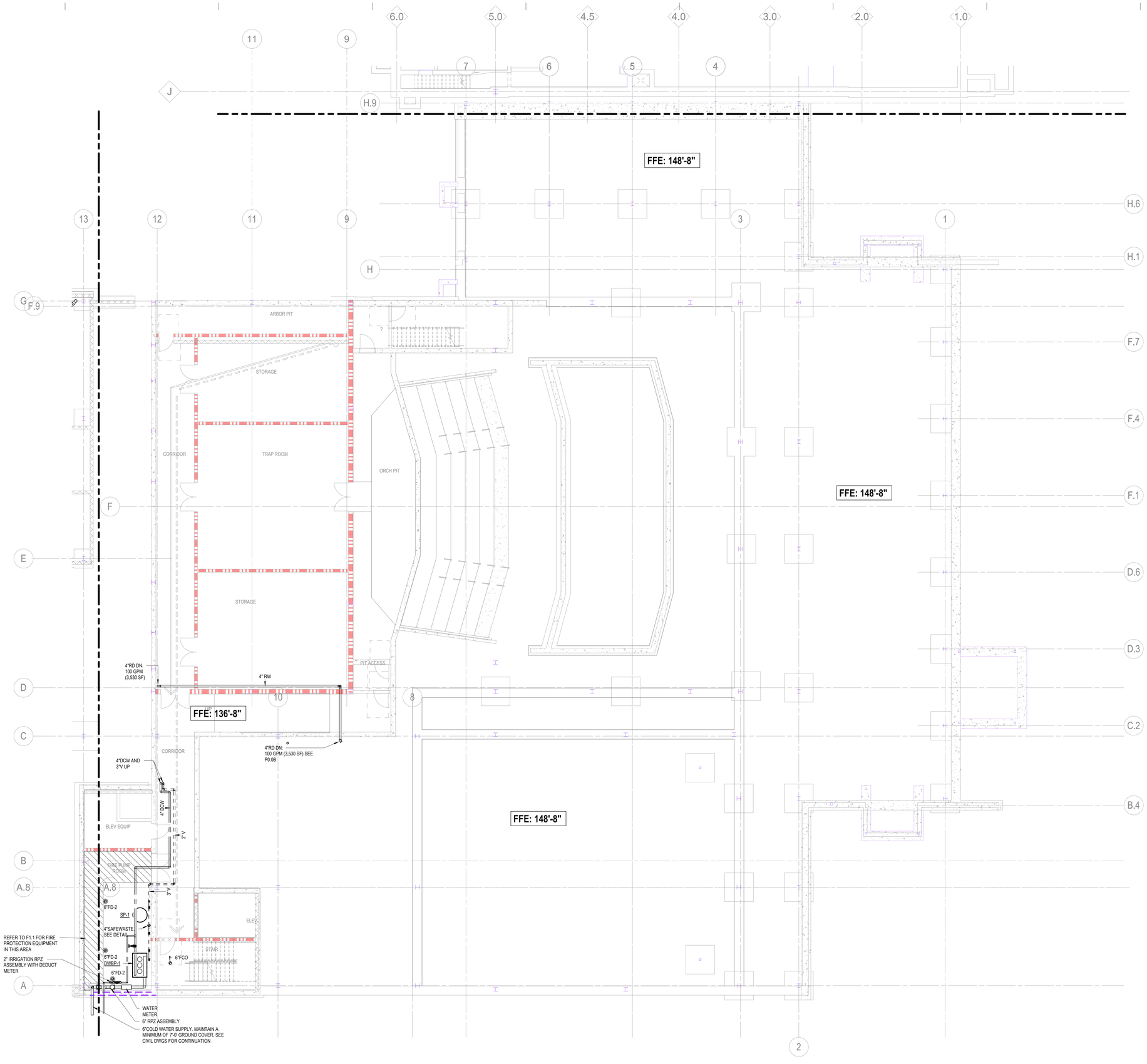
Signature:

Drawing No:

# P0.0C

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 LOWER LEVEL PLAN - SECTOR B - PLUMBING
1/8" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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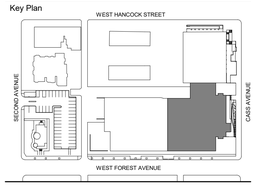
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LOWER LEVEL PLAN - SECTOR B - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

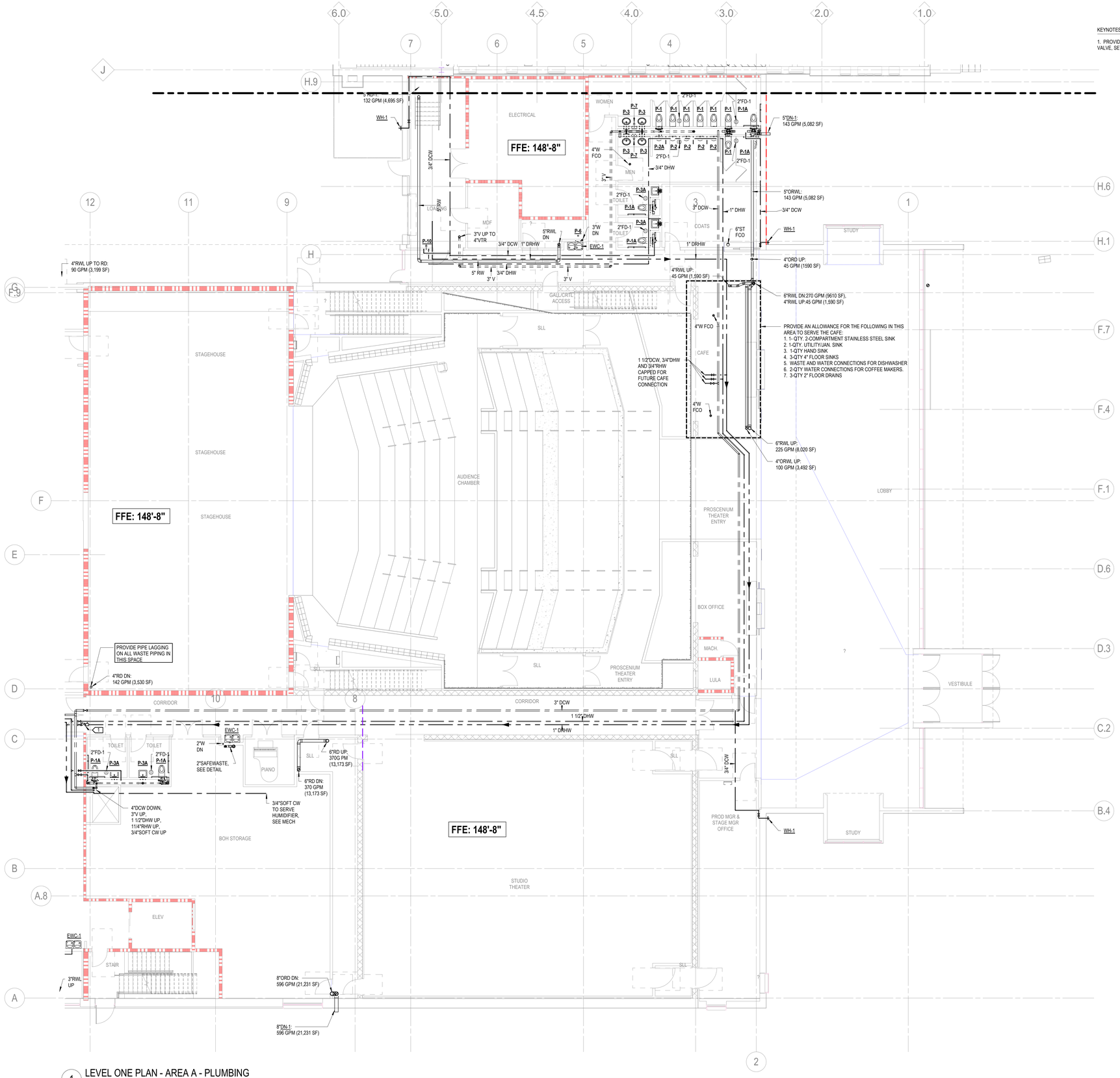
P1.0B

BIM 360://WSU Hilberry Gateway/MEP18 - WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version

KEYNOTES:

1. PROVIDE SHUTOFF VALVE, CHECK VALVE AND BALANCING VALVE, SET TO 1.0 GPM




1 LEVEL ONE PLAN - AREA A - PLUMBING
1/8" = 1'-0"

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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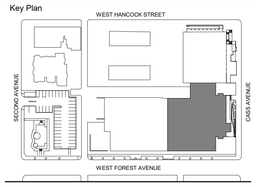
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL ONE PLAN - SECTOR B - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

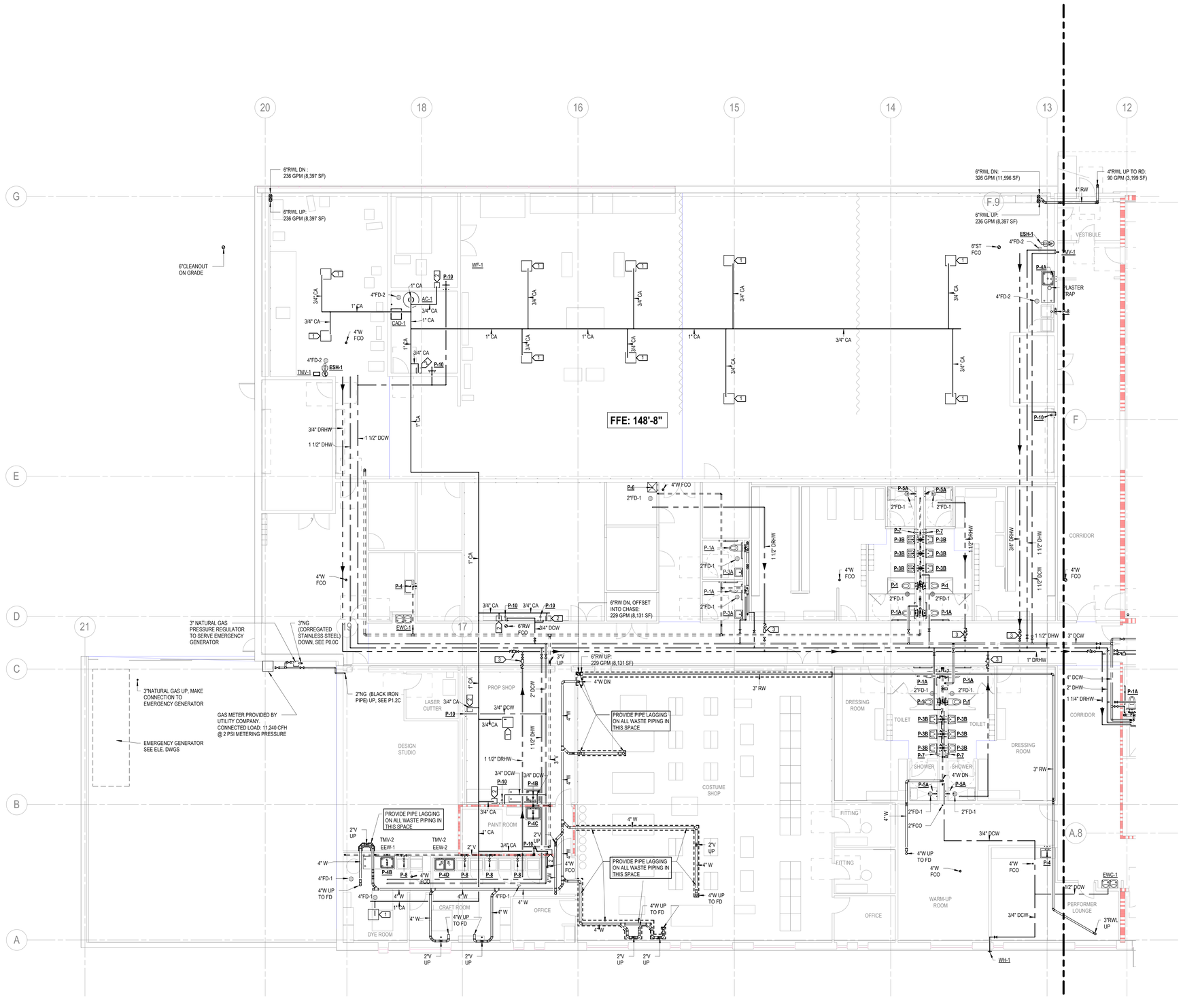
P1.1B

BIM 360://WSU / Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

KEYNOTES:

1. PROVIDE COMPRESSED AIR HOSE REEL AIR OUTLET WITH PRESSURE REGULATOR, FILTER/DRYER DIRT LEG AND QUICK-CONNECT. FILED VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER. SEE DETAIL.
2. PROVIDE COMPRESSED AIR WALL AIR OUTLET WITH PRESSURE REGULATOR, FILTER/DRYER DIRT LEG AND QUICK-CONNECT. FILED VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER. SEE DETAIL.
3. PROVIDE SHUTOFF VALVE, CHECK VALVE AND BALANCING VALVE, SET TO 1.0 GPM




1 LEVEL ONE PLAN - AREA B - PLUMBING
1/8" = 1'-0"

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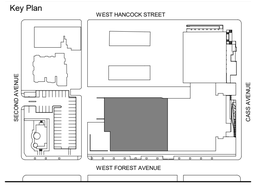
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL ONE PLAN - SECTOR C - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

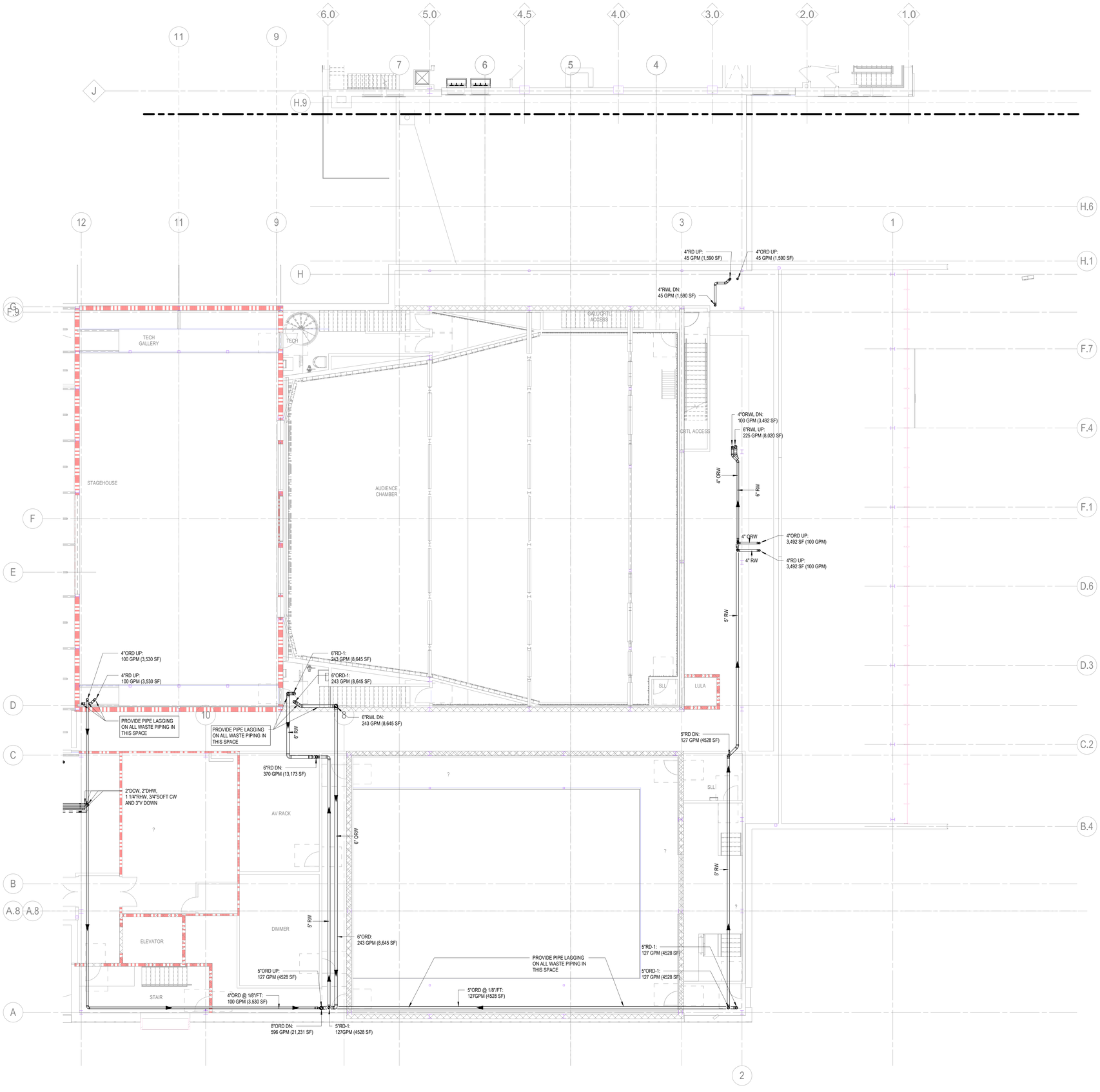
Signature:

Drawing No:

# P1.1C

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL TWO PLAN - SECTOR B - PLUMBING
1/8" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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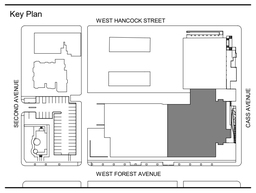
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL TWO PLAN - SECTOR B - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

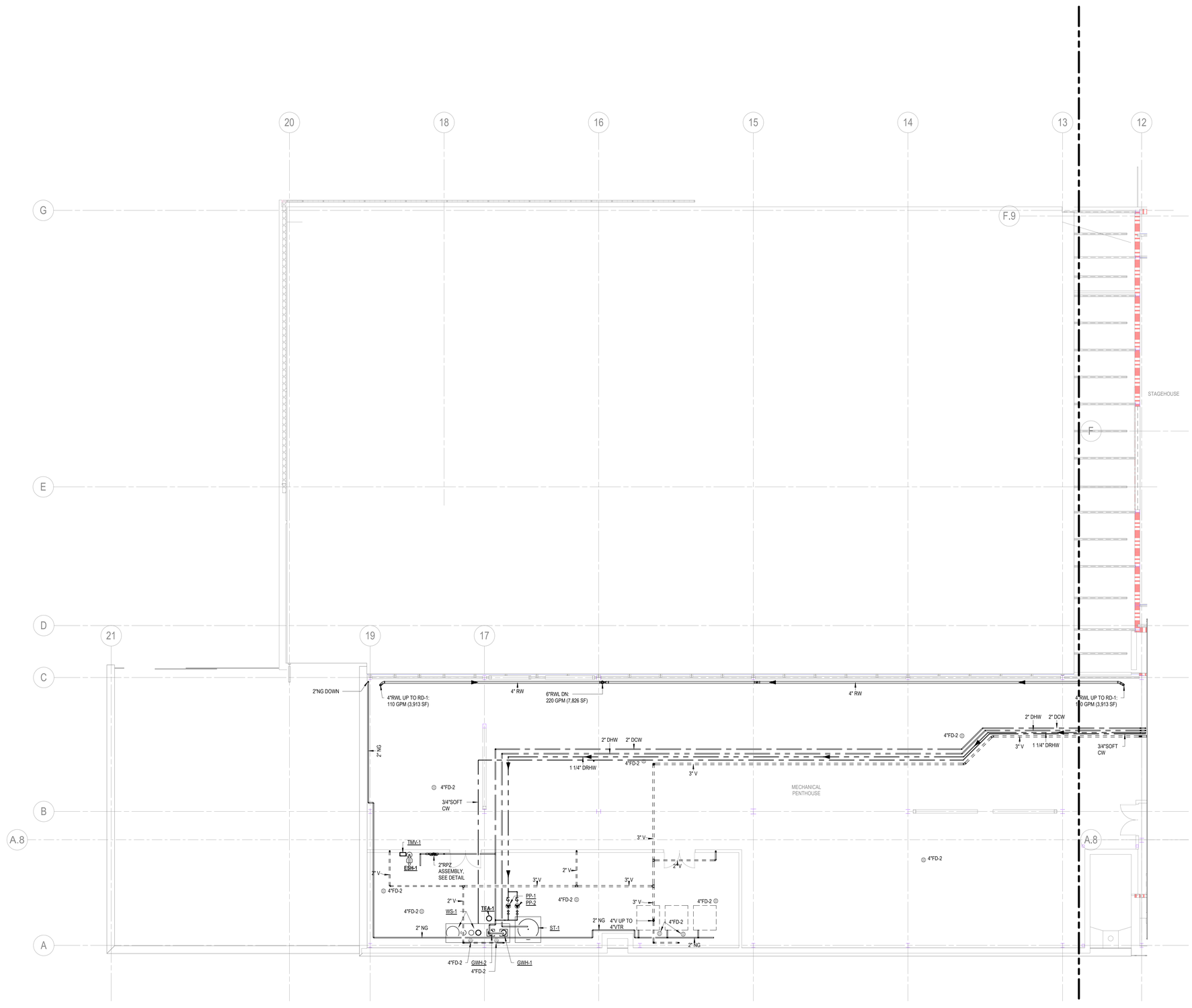
Signature:

Drawing No:

P1.2B

BIM 360://WSU Hillberry Gateway/MP18 - WSU Hillberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL TWO PLAN - SECTOR C - PLUMBING
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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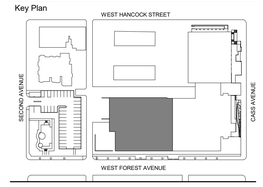
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL TWO PLAN - SECTOR C - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

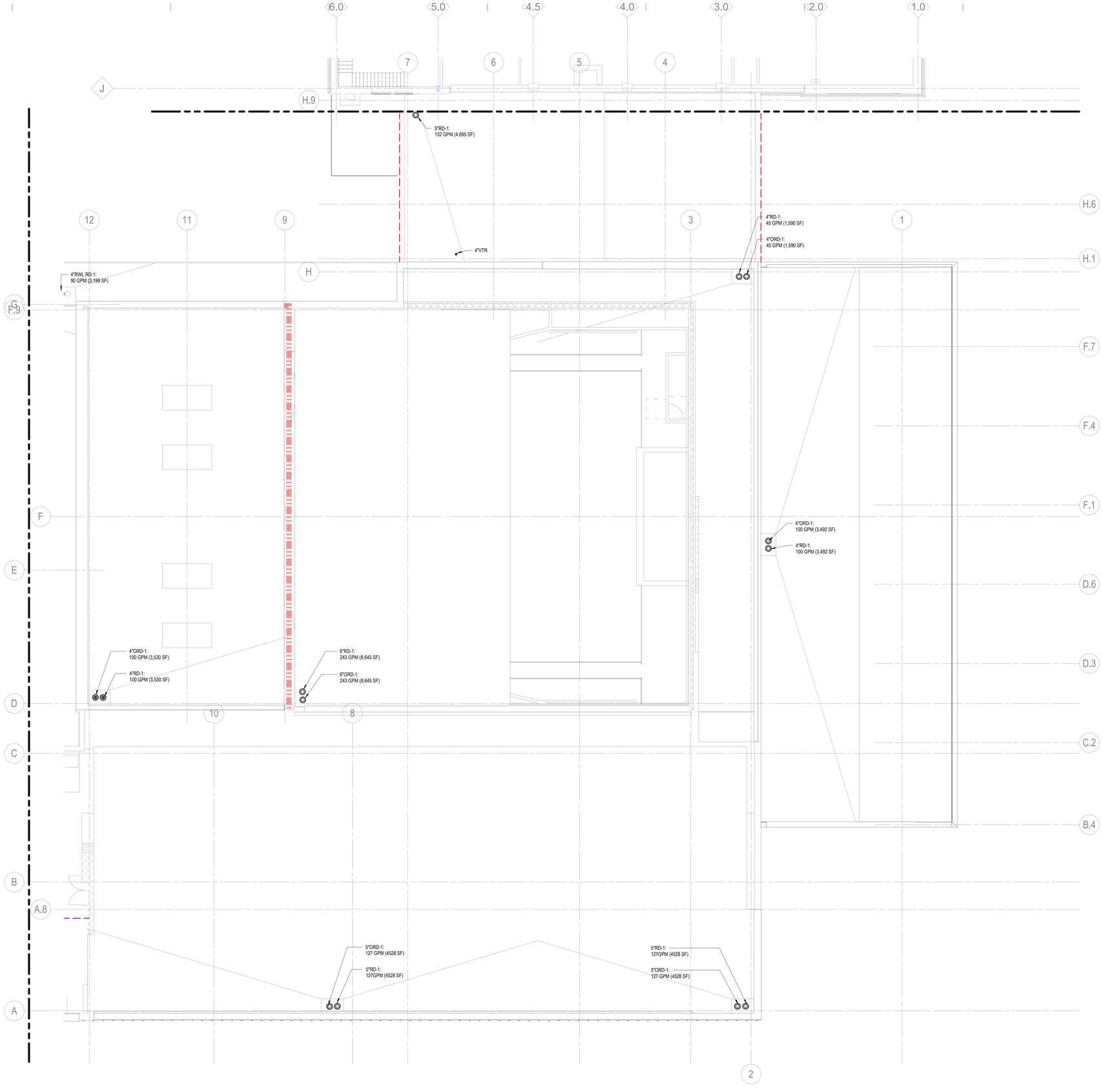
Signature:

Drawing No:

P1.2C

BIM 360://WSU Hillberry Gateway/MEP18 - WSU Hillberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




1 ROOF LEVEL - SECTOR B - PLUMBING
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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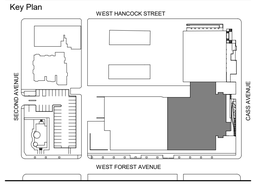
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ROOF PLAN - SECTOR B - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

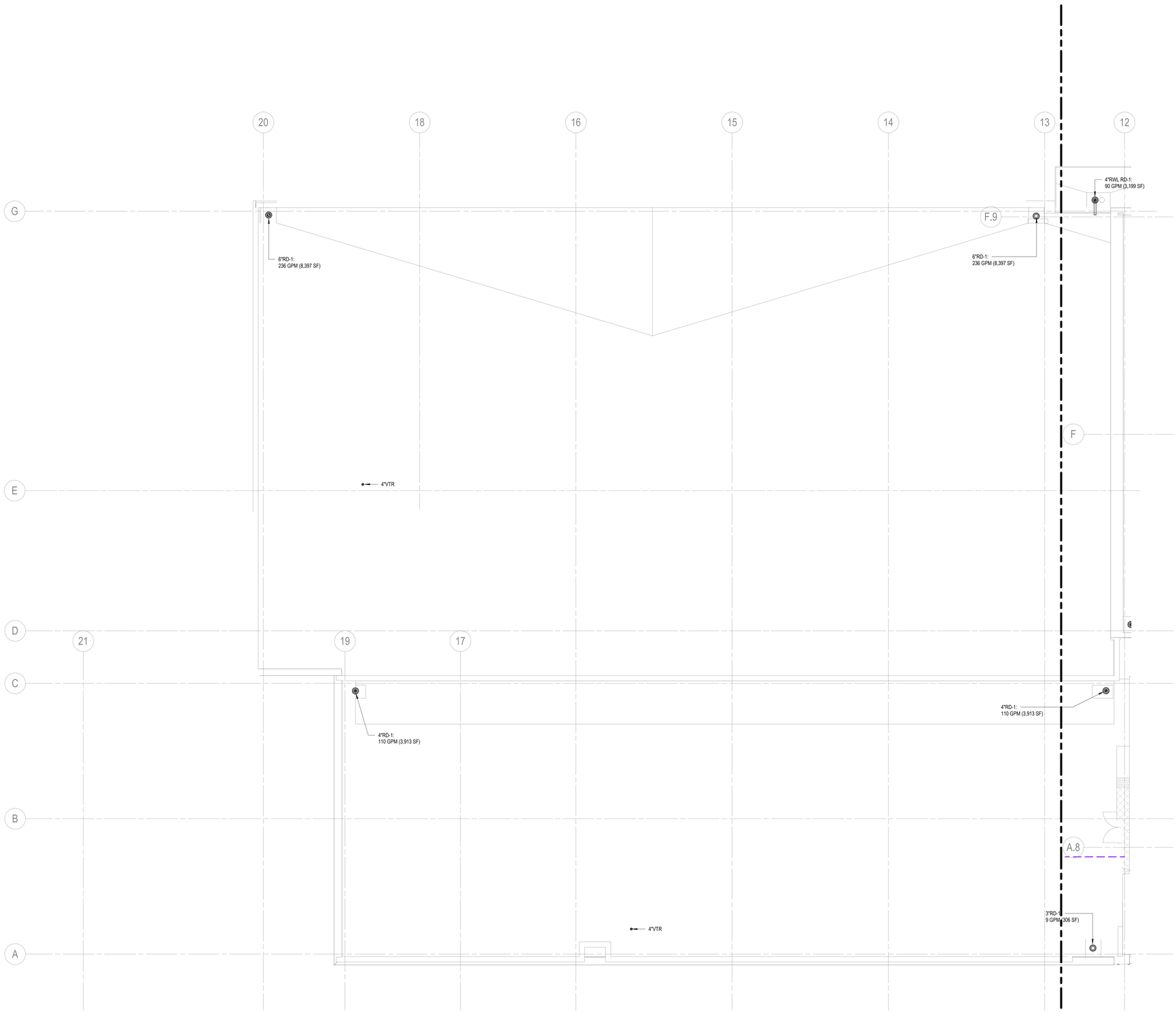
Signature:

Drawing No:

# P1.4B

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 ROOF LEVEL - SECTOR C - PLUMBING
1/8" = 1'-0"

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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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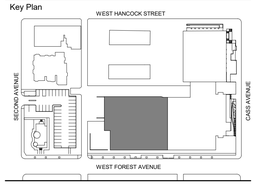
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ROOF PLAN - SECTOR C - PLUMBING

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

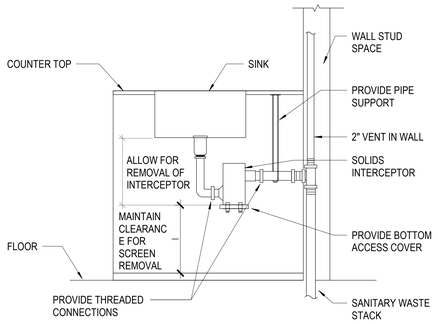
Signature:

Drawing No:

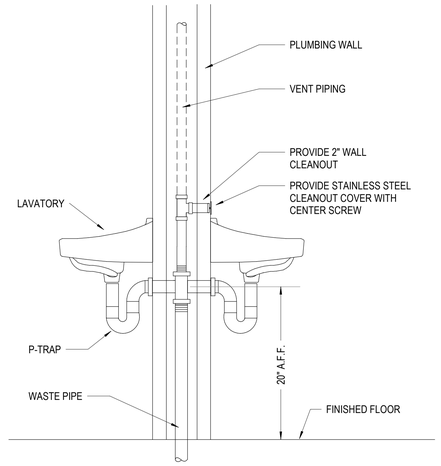
P1.4C

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

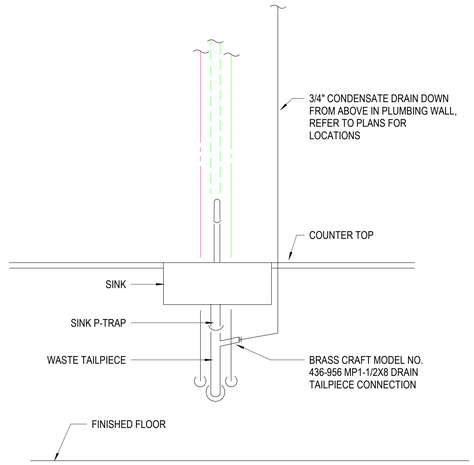
Sheet Size: 30" x 42"
: Template Version



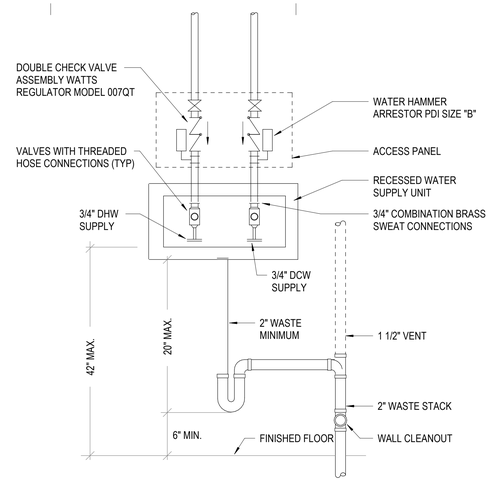

4 PLASTER INTERCEPTOR
NTS



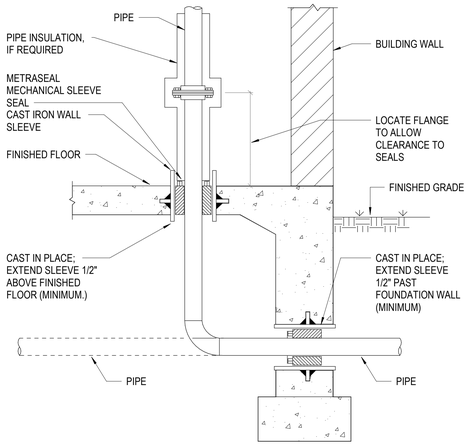

3 BACK TO BACK LAVATORY WALL CLEANOUT
NTS



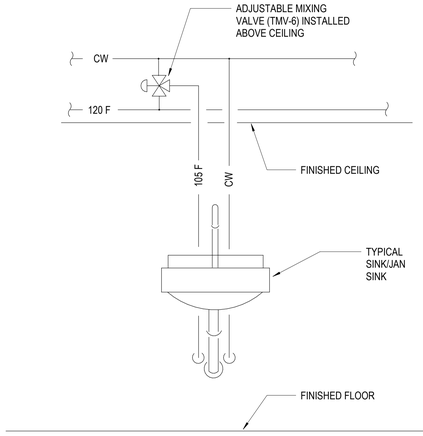

2 CONDENSATE CONNECTION TO SINK P-TRAP
NTS



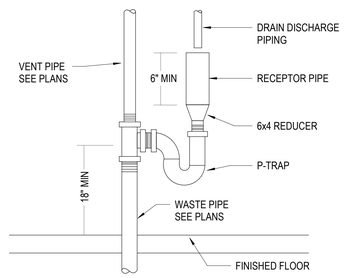

1 CLOTHES WASHER BOX CONNECTION
NTS



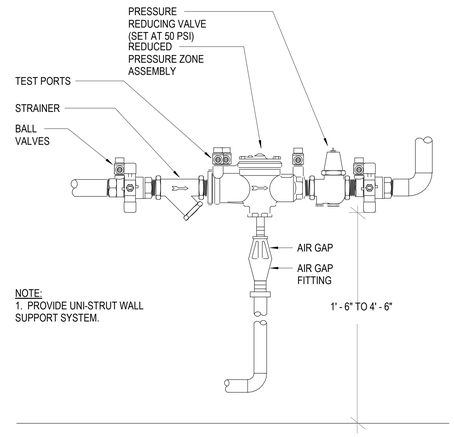

5 MECHANICAL SLEEVE SEAL DETAIL
NTS




6 LAV MIXING VALVE
NTS




7 SAFE WASTE
NTS

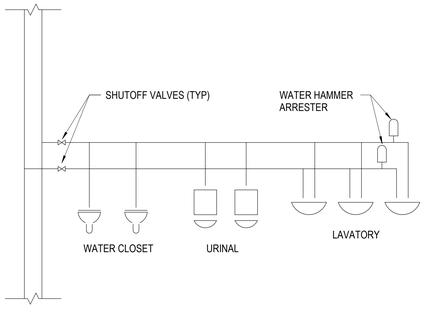



NOTE:
1. PROVIDE UNI-STRUT WALL SUPPORT SYSTEM.

8 SINGLE RPZ ASSEMBLY
NTS

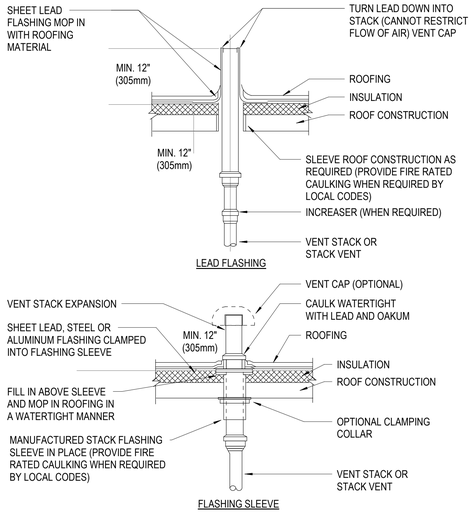
SIZING CHART

| PLUMBING AND DRAINAGE INSTITUTE (P.D.I.) ARRESTOR SYMBOL | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| FIXTURE UNIT RATING | 1-11 | 12-32 | 33-60 | 61-113 | 114-154 | 155-330 |

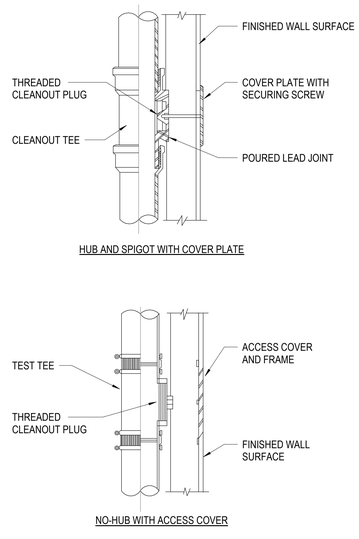



NOTE:
1. INSTALL WATER HAMMER ARRESTERS IN THE FOLLOWING LOCATIONS: PLUMBING FIXTURE GROUPS CONTAINING FLUSH VALVES, EQUIPMENT WITH AUTOMATIC FILL VALVES (DISHWASHERS, CLOTHES WASHERS, HUMIDIFIERS, ETC.) SEE SPECIFICATION 221119 PLUMBING SPECIALTIES.

9 SHOCK ABSORBERS LOCATIONS
NTS




10 VENT THROUGH ROOF (VTR)
NTS




11 WALL CLEANOUTS
NTS

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
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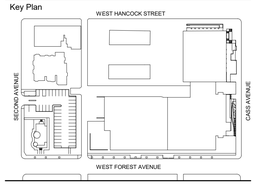
| DETROIT, MI | |


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
# PLUMBING DETAILS

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

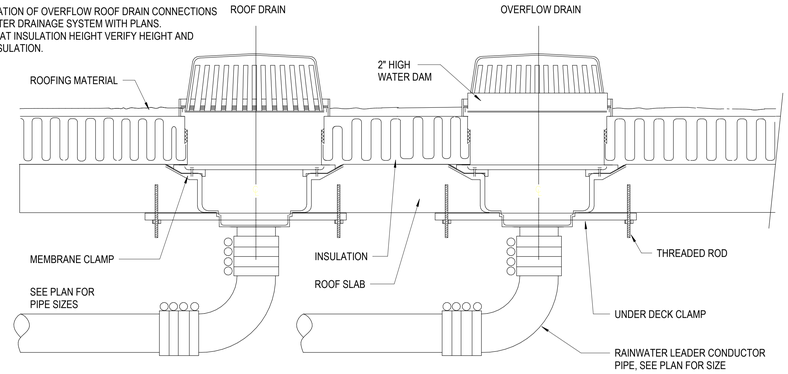
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

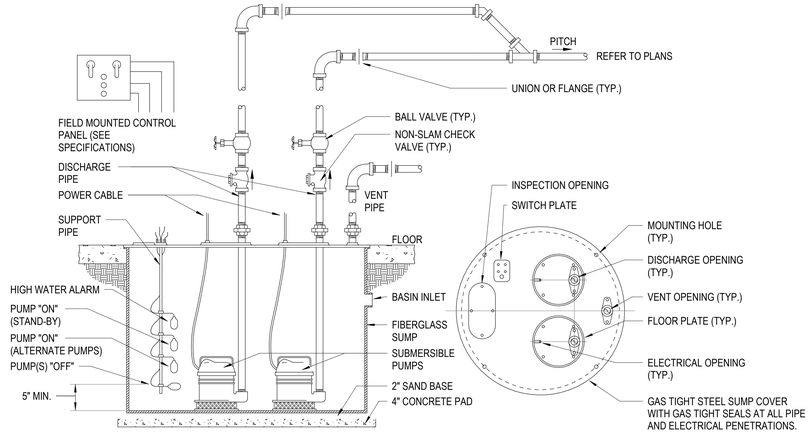
Drawing No:
# P7.0

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

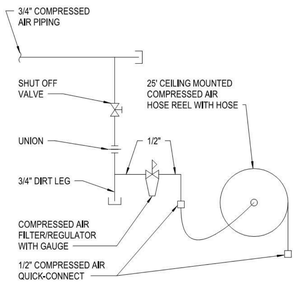
NOTE:
1. VERIFY LOCATION OF OVERFLOW ROOF DRAIN CONNECTIONS TO RAINWATER DRAINAGE SYSTEM WITH PLANS.
2. SET DRAINS AT INSULATION HEIGHT VERIFY HEIGHT AND TYPE OF INSULATION.



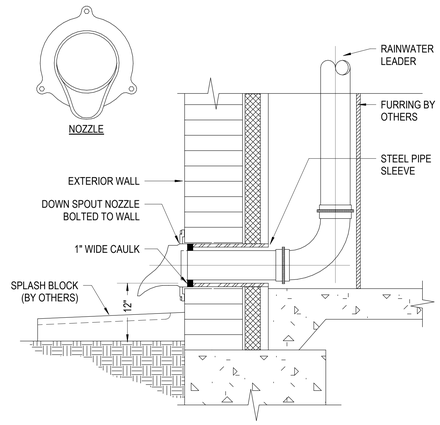

2 ROOF DRAIN WITH OVERFLOW
NTS



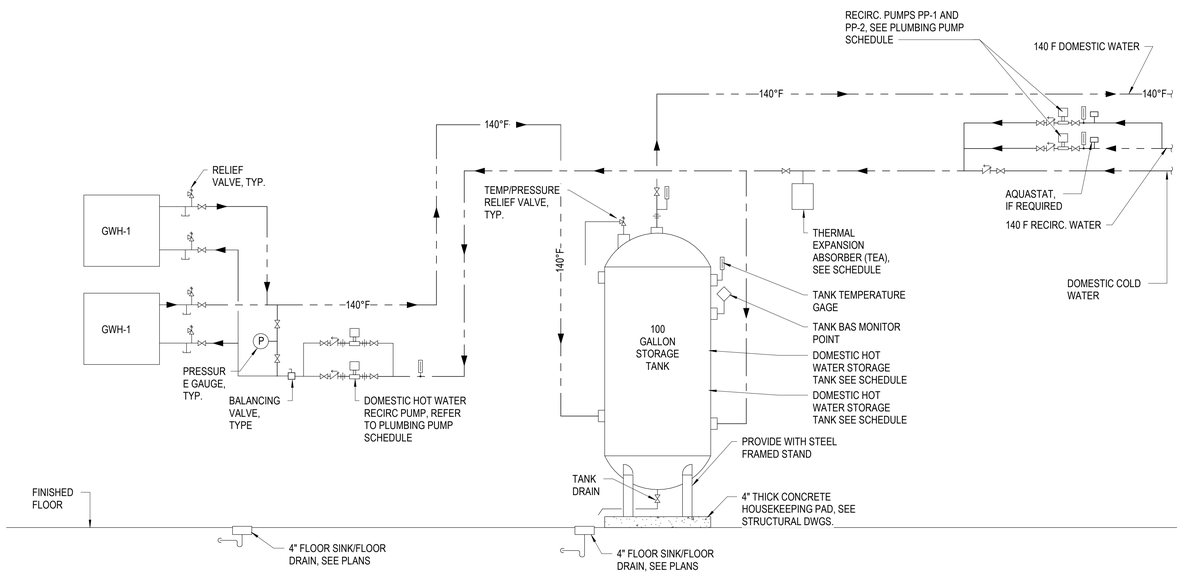

1 DUPLEX SUMP PUMP (ELEVATOR PIT)
NTS



3 TYPICAL COMPRESSED AIR OUTLET WITH HOSE REEL - HIGH
NTS

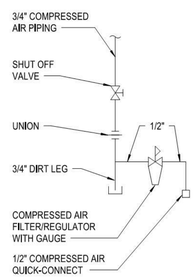



4 DISCHARGE
NTS




NOTE:
1. REFER TO GAS WATER HEATER AND STORAGE TANK SCHEDULES FOR DIMENSIONS AND ADDITIONAL INFORMATION.
2. REFER TO FLOOR PLANS FOR PIPE SIZES, ROUTING AND ACCESSORIES.
3. PROVIDE BAS INTERFACE WITH ALARM SIGNAL, REFER TO SPECIFICATION SECTION FOR CONTROL SEQUENCES.
4. ALL DOMESTIC WATER PIPING TO BE TYPE "L" COPPER UNLESS NOTED OTHERWISE.
5. REFER TO SPECIFICATION FOR PIPING AND EQUIPMENT INSULATION REQUIREMENTS.
6. SEE MECHANICAL DRAWINGS FOR VENTING REQUIREMENTS.

5 DOMESTIC HOT WATER DUAL TEMP HEAT EXCHANGERS WITH STORAGE TANK
NTS



6 TYPICAL COMPRESSED AIR OUTLET - LOW
NTS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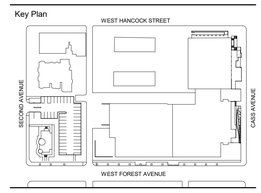
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
# PLUMBING DETAILS

Project Number: 3995-001-00
Drawn By: Designer
Scale: As indicated
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
# P7.1


Sheet Size: 30" x 42"
- Template Version
BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

## FLOOR SINK SCHEDULE (FS)

| UNIT TAG | FLOOR SINK BODY MATERIAL | FLOOR SINK BODY SIZE (IN.) | FLOOR SINK BODY DEPTH | STRAINER MATERIAL | GRATE MATERIAL | TRAP MATERIAL | FLANGE W/ WEEPHOLES | OUTLET SIZE (IN.) | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FS-1 | CAST IRON | 12" x 12" | 6" | ALUMINUM | NIKALOY | CAST IRON | YES | SEE PLANS | ZURN | Z1900 | |

## FLOOR DRAIN SCHEDULE (FD)

| UNIT TAG | FLOOR DRAIN BODY MATERIAL | FLOOR DRAIN BODY SHAPE | FLOOR DRAIN BODY OUTLET | STRAINER SIZE (IN.) | STRAINER MATERIAL | STRAINER FINISH | STRAINER SQ. IN. OPENING | TRAP MATERIAL | BWV | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FD-1 | CAST IRON | ROUND | BOTTOM | SEE PLANS | NICKEL BRONZE | POLISHED | 12" | CAST IRON | | ZURN | Z415B | |
| FD-2 | CAST IRON | ROUND | BOTTOM | SEE PLANS | CAST IRON | ROUGH | 21 | CAST IRON | | ZURN | Z1731 | |
| FD-3 | CAST IRON | ROUND | BOTTOM | SEE PLANS | CAST IRON | ROUGH | 21 | NO TRAP | | ZURN | Z1731 | |

## ROOF DRAIN SCHEDULE (RD)

| UNIT TAG | ROOF DRAIN BODY MATERIAL | ROOF DRAIN BODY SUMP | ROOF DRAIN BODY BODY TYPE | ROOF DRAIN BODY OUTLET | ROOF DRAIN BODY DECK CLAMP | ROOF DRAIN BODY TOP | DOME MATERIAL | DOME PROFILE | DOME FAST. | ACCESSORIES | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ORD-2 | CAST IRON | LARGE | ROUND | BOTTOM | YES | DOME | CAST IRON | LOW SILHOUETTE | | UNDER DECK CLAMP, SUMP RECIEVER | ZURN | Z100 | PROVIDE WITH 2" HIGH WATER DAM |
| RD-1 | CAST IRON | LARGE | ROUND | BOTTOM | YES | DOME | CAST IRON | LOW SILHOUETTE | | UNDER DECK CLAMP, SUMP RECIEVER | ZURN | Z100 | |

## CLEANOUT KEY SCHEDULE

| UNIT TAG | CLEANOUT LOCATION | CLEANOUT BODY MATERIAL | CLEANOUT TOP PLUG | CLEANOUT TOP MAX. SIZE | CLEANOUT TOP MATERIAL | CLEANOUT TOP FINISH | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| TYPE "A" | FLOOR | CAST IRON | BRONZE | 6-3/4" | NIKALOY | SATIN | JOSAM | 57000-22 | USE IN NON-HEAVY TRAFFIC AREA FLUSH WITH FINISHED FLOOR |
| TYPE "B" | FLOOR | CAST IRON | BRONZE | 6-3/4" | NIKALOY | SATIN | JOSAM | 57000-12-22 | USE IN NON-HEAVY TRAFFIC AREA WITH TILED FLOOR |
| TYPE "C" | FLOOR | CAST IRON | BRONZE | 6-3/4" | BRONZE | SATIN | JOSAM | 57000-2-14-22 | USE IN NON-HEAVY TRAFFIC AREA WITH CARPETED FLOOR |
| TYPE "D" | WALL | CAST IRON | BRONZE | --- | STAINLESS STEEL | --- | JOSAM | 58600-VP-PLG | |
| TYPE "E" | EXPOSED PIPE | CAST IRON | BRONZE | --- | --- | --- | JOSAM | 58540 | |

## EMERGENCY EQUIPMENT SCHEDULE (ESH, EEF, EDH)

| UNIT TAG | EQUIPMENT TYPE | MOUNTING | ADA COMPLIANT | RIM MOUNTING HEIGHT (IN.) | WASTE (IN.) | VENT (IN.) | TEPID SUPPLY CONN. (IN.) | SERVED BY | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EEW-1 | EYE/FACE WASH | COUNTER | NO | | 1 1/2" | | 3/4" | TMV-2 | BRADLEY | S19-270E | |
| EEW-2 | EYE/FACE WASH | COUNTER | NO | | 1 1/2" | | 3/4" | TMV-2 | BRADLEY | S19274JD | |
| ESH-1 | EMERGENCY SHOWER/EYEWASH | FLOOR | NO | | 1 1/2" | | 1 1/2" | TMV-1 | BRADLEY | S191314 | |

## THERMOSTATIC MIXING VALVE SCHEDULE (TMV)

| UNIT TAG | LOCATION | SYSTEM/EQUIPMENT SERVED | MIN. FLOW (GPM) | COLD WATER BYPASS | MAX. FLOW (GPM) | MAXIMUM PRESS DROP (PSIG) | INLET TEMP (°F) | OUTLET TEMP (°F) | INLET SIZE (IN.) | MOUNTING TYPE | OUTLET SIZE (IN.) | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TMV-1 | VARIOUS | ESH-1 | 20 | | 30 | 10 | 140 | 85 | 1 1/4" | | 1 1/4" | BRADLEY | S19-2150 EFX20 | |
| TMV-2 | VARIOUS | EEW-1, EEW-2 | 7 | | 10 | 80 | 140 | 85 | 3/4" | | 3/4" | BRADLEY | S19-2000EFX | |

## THERMAL EXPANSION ABSORBER SCHEDULE (TEA)

| UNIT TAG | LOCATION | SYSTEM | TANK SYSTEM TOTAL CAPACITY (GAL.) | TANK TOTAL TANK VOLUME (GAL.) | TANK MAXIMUM ACCEPT. VOLUME (GAL.) | TANK SUPPLY WATER PRESSURE (PSIG) | TANK PRE-CHARGE TANK PRESSURE (PSIG) | TANK RELIEF VALVE SETTING (PSIG) | OPERATING PRESSURE MIN. (PSIG) | OPERATING PRESSURE MAX. (PSIG) | OPERATING TEMPERATURE INTIAL FILL TEMP (°F) | OPERATING TEMPERATURE MAX OPERATING TEMP (°F) | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEA-1 | 2ND LEVEL MECHANICAL ROOM | DOMESTIC HOT WATER | | 53 | .66 | 65 | 40 | 85 | 70 | 80 | 40 | 140 | TEMP-TROLL | ST-80VC | |

## ELECTRIC WATER COOLER SCHEDULE (EWC)

| UNIT TAG | LEVELS | CABINET | BOWL MATERIAL TYPE | CONTROL | BOTTLE FILLER | CAPACITY WATER FLOW (GPH) | CAPACITY WATER EWT (°F) | CAPACITY WATER LWT (°F) | AMBIENT AIR TEMP (°F) | MOUNTING TYPE | SPOUT MOUNTING HEIGHT (IN.) | SUPPLY CONNECTION (IN.) | WASTE OUTLET (IN.) | ELECTRICAL VOLTAGE | ELECTRICAL PHASE | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EWC-1 | BI-LEVEL | MOLDED PLASTIC | | FRONT AND SIDE | | 8.0 | 80 | 50 | | SURFACE | SEE ARCH DWGS | 1/2" | 1 1/2" | | | ELKAY | LZSTL8WSLP | PROVIDE WITH WATER SENTRY FILTER SYSTEM |

## COMPRESSOR AIR DRYER SCHEDULE (CAD)

| UNIT TAG | LOCATION | COMPRESSOR SERVED | COMPRESSOR FLOW CAPACITY (SCFM) @ 35°F | COMPRESSOR MAXIMUM PRESSURE (PSIG) | COMPRESSOR OPERATING PRESSURE (PSIG) | MOTOR HP | MOTOR RPM | ELECTRICAL VOLTAGE | ELECTRICAL PHASE | ELECTRICAL EMERGENCY POWER | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAD-1 | 2ND LEVEL MECHANICAL ROOM | AC-1 | 51 | 150 | 100 | 5 | 0 | | | | ZEKS | 24HSHA100 | PROVIDE WITH NANO MODEL NO. NF0015-M1 FILTER, NANO MODEL NO. NF0015-M01 HIGH EFFICIENCY OIL REMOVAL FILTER, ALL CONTROLS AND MANUAL PRESSURE REGUALTORS |

## GENERAL SERVICE AIR COMPRESSOR SCHEDULE (AC)

| UNIT TAG | LOCATION | COMPRESSORS MOUNTING TYPE | COMPRESSORS CAPACITY (ACFM) | COMPRESSORS OPERATING PRESSURE (PSIG) | COMPRESSORS MAXIMUM OPERATING PRESSURE (PSIG) | MOTOR QTY. | MOTOR HP | MOTOR RPM | RECEIVER TANK CAPACITY (GAL.) | RECEIVER TANK DIAMETER (IN.) | RECEIVER TANK LENGTH (IN.) | ORIENTATION | ELECTRICAL VOLTAGE | ELECTRICAL PHASE | ELECTRICAL EMERGENCY POWER | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC-1 | TOOL SHOP | SKID | 51 | 100 | 175 | 1 | 15 | 923 | 120 | 48" | 72" | HORIZONTAL | 480 | 3 | NO | QUINCY | QP-15 | PROVIDE WITH AIR COOLED AFTERCOOLER, AIR DRYER, LOW OIL PRESSURE SHUTDOWN AND ELECTRCI TANK DRAIN |

## GAS WATER HEATER SCHEDULE (GWH)

| UNIT TAG | LOCATION | AREA SERVED | EWT (°F) | LWT (°F) | GAS INPUT (MBH) | GAS PRESS. (W.G.) | EFFICENCY (%) | RECOVERY (GPH) | TANK CAPACITY (GAL.) | VENT DIA. | INTAKE DIA. | ELECTRICAL VOLTAGE | ELECTRICAL PHASE | ELECTRICAL EMERGENCY POWER | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GWH-1 | 2ND LEVEL MECHANICAL ROOM | HILSBERRY THEATER | 40 | 140 | 150 | 14" | 96 | 175 | REMOTE | 3" | 3" | 480 | 3 | NO | LOCHINVAR | AWN15PM | PROVIDE WITH ALL NECESSARY CONTROLS, INTER-LOCKING DEVICE(S), ASME P AND T PRESSURE RELIEF VALVE, |
| GWH-2 | 2ND LEVEL MECHANICAL ROOM | HILSBERRY THEATER | 40 | 140 | 150 | 14" | 96 | 175 | REMOTE | 3" | 3" | 480 | 3 | NO | LOCHINVAR | AWN15PM | PROVIDE WITH ALL NECESSARY CONTROLS, INTER-LOCKING DEVICE(S), ASME P AND T PRESSURE RELIEF VALVE, |

## DOMESTIC WATER STORAGE TANK SCHEDULE (DWST)

| UNIT TAG | LOCATION | TANK SYSTEM | TANK TANK ARRANGEMENT | TANK TANK MATERIAL | TANK TANK LINING MATERIAL | TANK CAPACITY (GAL) | TANK INLET SIZE (IN) | TANK OUTLET SIZE (IN) | TANK ACCESS MANHOLE SIZE (IN) | OPERATING CONDITIONS MAXIMUM TANK PRESSURE (PSIG) | OPERATING CONDITIONS DESIGNED OPERATING PRESSURE (PSIG) | OPERATING CONDITIONS INTIAL FILL TEMP. (F°) | OPERATING CONDITIONS MAXIMUM OPERATING TEMPERATURE (F°) | DESIGNED OPERATING TEMPERATURE (F°) | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL NO. | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ST-1 | 2ND LEVEL MECHANICAL ROOM | DOMESTIC HOT WATER | VERTICAL | CARBON STEEL | EPOXY NSF LINING | 117 | 1 1/2" | 1 1/2" | 24 | 150 | 80 PSI | 40 | 160 | 140 | ACE HEATERS | SJ-24 | TANK TO BE ASME RATED |

## SUMP PUMP SCHEDULE (SP)

| UNIT TAG | LOCATION | SERVING | SYSTEM TYPE | PUMP GPM | FT. HD. | MOTOR QTY. | MOTOR HP | MOTOR RPM | BASIN DIAMETER (IN.) | BASIN DEPTH (IN.) | BASIN DISCHARGE (IN.) | BASIN VENT SIZE (IN.) | BASIN REMOVAL SYSTEM | BASIN FLOAT TYPE | ELECTRICAL VOLTAGE | ELECTRICAL PHASE | ELECTRICAL EMERGENCY POWER | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SP-1 | LOWER LEVEL WATER ROOM | ELEVATOR PIT | GREY WATER | 50 | 25 | 2 | 3/4 | 1750 | 36" | 96" | 3" | 3" | PULL CHAIN | THETHERED | 480 | 3 | NO | WEIL | W-1314 | PROVIDE WITH TETHERED DUPLEX FLOATS MODEL 8230, MODEL 8151 DUPLEX CONTROL PANEL, FIBERGLASS SUMP BASIN AND GAS TIGHT CAST IORN COVER |

## WATER SOFTENER SCHEDULE (WS)

| UNIT TAG | LOCATION | SYSTEM SERVING | CAPACITY GRAINS/REGEN. @ 10LBS/SALT | HARDNESS INLET WATER GRAINS | FLOW RATES GPM EACH RESIN VESSEL 15 PSIG DROP | FLOW RATES 25 PSIG DROP | FLOW RATES CONTINUOUS FLOW | FLOW RATES MAXIMUM | BACKWASH FLOW RATE (GPM) | RESIN TANK(S) RESIN CUBIC FEET EACH VESSAL | RESIN TANK(S) QUANTITY | RESIN TANK(S) DIA x HGT (IN.xIN.) | BRINE TANK(S) DIA x HGT (IN.xIN.) | BRINE TANK(S) QUANTITY | BRINE TANK(S) SALT CAPACITY (LBS) | DIMENSIONS LxWxH (IN.) | FIELD CONNECTION IN/OUT (IN.) | ELECTRICAL VOLTAGE | ELECTRICAL PHASE | ELECTRICAL EMERGENCY POWER | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WS-1 | 2ND LEVEL MECHANICAL ROOM | DOM HOT WATER | 10 | 12 | 15 | 324 | 171.3 | 7 | 25 | 12 | 3 | 30"X72 | 30"X48" | 1 | 850 | 138"X48"X89" | 2" | 480 | 3 | NO | WATER CONTROL CORPORATION | LF-360-TRIPLEX-ECC | PROVIDE AUTOMATIC CONTROLS: TOP MOUNTED BRASS CONTROL VALVES, MULTI-PORT WITH 2-INCH INLET, MOTOR DRIVEN, MECHANICALLY ACTIVATED MULTIPOSITION. VALVES CONTROLLED NY AN INTERGRAL CENTRAL ELECTRCONIC CONTROL SYSTEM. SYSTEM TO BE PROGRAMMED SO UNITS ARE UNABLE TO REGENERATE SIMULATANEOUSLY |

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

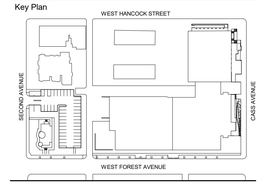
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168

DETROIT, MI


Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
PLUMBING SCHEDULES

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
P8.0

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version

## PLUMBING FIXTURE AND CONNECTION SCHEDULE

| TAG | TYPE | DESCRIPTION | NOTE | RIM MOUNTING HEIGHT | WASTE (IN) | VENT (IN) | DOMESTIC SUPPLY FLOW | DOMESTIC SUPPLY CW | DOMESTIC SUPPLY HW |
|---|---|---|---|---|---|---|---|---|---|
| P-1 | WATER CLOSET - WALL HUNG | FIXTURE: SLOAN MODEL NO. WETS-2450.1301, 1.28 GPF TOILET SYSTEM WITH WALL HUNG WATER CLOSET, WHITE VITREOUS CHINA ELONGATED BOWL WATER CLOSET AND TOP SPUD CONNECTION. 1.28 GPF.<br>VALVE: SLOAN FLUSH VALVE MODEL NOROYAL 111 ESS HARDWIRED-1.28-OR-HW SENSOR FLUSH VALVE WITH MANUAL OVERRIDE BUTTON 1.28 GPF AND POLISHED CHROME FINISH.<br>SEAT: CHURCH MODEL NO. 295SSC OPEN FRONT SEAT LESS COVER, ELONGATED, SOLID PLASTIC, EXTERNAL STAINLESS STEEL SELF-SUSTAINING HINGES.<br>ACCESSORIES: FLOOR MOUNTED ADJUSTABLE CARRIER WITH NO-HUB CONNECTIONS, SIPHON JET AND AUXILIARY FOOT SUPPORT | | | 4" | 2" | 1.28 GPF | 1 1/4" | |
| P-1A | WATER CLOSET - WALL HUNG | FIXTURE: SLOAN MODEL NO. WETS-2450.1301, 1.28 GPF TOILET SYSTEM WITH WALL HUNG WATER CLOSET, WHITE VITREOUS CHINA ELONGATED BOWL WATER CLOSET AND TOP SPUD CONNECTION. 1.28 GPF., ADA COMPLIANT.<br>VALVE: SLOAN FLUSH VALVE MODEL NOROYAL 111 ESS HARDWIRED-1.28-OR-HW SENSOR FLUSH VALVE WITH MANUAL OVERRIDE BUTTON 1.28 GPF AND POLISHED CHROME FINISH. ADA COMPLAINT.<br>SEAT: CHURCH MODEL NO. 295SSC OPEN FRONT SEAT LESS COVER, ELONGATED, SOLID PLASTIC, EXTERNAL STAINLESS STEEL SELF-SUSTAINING HINGES.<br>ACCESSORIES: FLOOR MOUNTED ADJUSTABLE CARRIER WITH NO-HUB CONNECTIONS, SIPHON JET AND AUXILIARY FOOT SUPPORT | | | 4" | 2" | 1.28 GPF | 1 1/4" | |
| P-2 | URINAL | FIXTURE: SLOAN MODEL NO. WEUS-1005.1304 URINAL SYSTEM, WALL HUNG, WHITE VITREOUS CHINA URINAL WITH 3/4" TOP SPUD INLET, WASHOUT FLUSH ACTION, 0.125 GPF<br>VALVE: SLOAN MODEL NO. ROYAL 186 ESS HARDWIRED-0.5-OR-HW TOP MOUNTED, SENSOR OPERATED FLUSH VALVE, HARDWIRED, 0.5 GPF AND POLISHED CHROME FINISH.<br>ACCESSORIES: FLOOR MOUNTED CARRIER | | | 2" | 1 1/2" | 0.125 GPF | 3/4" | |
| P-2A | URINAL - ADA | FIXTURE: SLOAN MODEL NO. WEUS-1005.1304 URINAL SYSTEM, WALL HUNG, WHITE VITREOUS CHINA URINAL WITH 3/4" TOP SPUD INLET, WASHOUT FLUSH ACTION, 0.125 GPF, ADA COMPLIANT<br>VALVE: SLOAN MODEL NO. ROYAL 186 ESS HARDWIRED-0.5-OR-HW TOP MOUNTED, SENSOR OPERATED FLUSH VALVE, HARDWIRED, 0.5 GPF AND POLISHED CHROME FINISH. ADA COMPLIANT.<br>ACCESSORIES: FLOOR MOUNTED CARRIER | | | 2" | 1 1/2" | 0.125 GPF | 3/4" | |
| P-3 | LAVATORY | FIXTURE: AMERICAN STANDARD MODEL NO. 0475.047 AQUALYN VITREOUS CHINA 20"X17" DROP-IN WITH FRONT OVERFLOW, SINGLE CENTER HOLE, COLOR-WHITE, ADA COMPLIANT.<br>FAUCET: SLOAN MODEL NO. EAF-200-HLT-CP-0.5GPM-AER-IR-IQ-FCT HARDWIRED SENSOR OPERATED FAUCET WITH CHECK VALVES, 0.5 GPM FLOW RATE AND 6-VOLT DC PLUG-IN ADAPTOR.<br>STRAINER: PROVIDE A 1 1/2" P-TRAP WITH OPEN GRID STRAINER AND CHROME PLATED TAILPIECE.<br>ACCESSORIES: PROVIDE A WATTS MODEL NO. LFMMV POINT-OF-USE THERMOSTAIC MIXING VALVE, 0.5 GPM FLOW. TRUBRO "LAV GUARD" MODEL NO. 102-EZ MOLDED COVERING FOR WATER AND WASTE PIPING | | | 1 1/2" | 1 1/2" | 0.5 GPM | 1/2" | 1/2" |
| P-3A | LAVATORY - WALL HUNG | FIXTURE: AMERICAN STANDARD MODEL NO. 9024.001EC DECORUM VITREOUS CHINA 20"X18" WALL HUNG WITH BACK OVERFLOW, SINGLE CENTER HOLE, COLOR-WHITE, ADA COMPLIANT.<br>FAUCET SLOAN MODEL NO. EAF-200-HLT-CP-0.5GPM-AER-IR-IQ-FCT HARDWIRED SENSOR OPERATED FAUCET WITH CHECK VALVES, 0.5 GPM FLOW RATE AND 6-VOLT DC PLUG-IN ADAPTOR.<br>STRAINER: PROVIDE A 1 1/2" P-TRAP WITH OPEN GRID STRAINER AND CHROME PLATED TAILPIECE.<br>ACCESSORIES: PROVIDE FLOOR SET FIXTURE CARRIER. PROVIDE A WATTS MODEL NO. LFMMV POINT-OF-USE THERMOSTAIC MIXING VALVE, 0.5 GPM FLOW. TRUBRO "LAV GUARD" MODEL NO. 102-EZ MOLDED COVERING FOR WATER AND WASTE PIPING. PROVIDE FLOOR SET CONCEALED ARM FIXTURE CARRIER | | | 1 1/2" | 1 1/2" | 0.5 GPM | 1/2" | 1/2" |
| P-3B | LAVATORY - WALL HUNG | FIXTURE: AMERICAN STANDARD MODEL NO. 9024.008EC DECORUM VITREOUS CHINA 20"X18" WALL HUNG WITH BACK OVERFLOW, 8" CENTER 3 HOLES, COLOR-WHITE, ADA COMPLIANT.<br>FAUCET: CHICAGO MODEL NO. 201-AGN1AE-317AB 2.2 GPM MANUAL OPERATED FAUCET WITH 3-1/2" RIGID GOOSENECK SPOUT, 8" FIXED CENTERS, WRIST BLADE CONTROL HANDLES, CHECK VALVES, ADA COMPLIANT.<br>STRAINER: PROVIDE A 1 1/2" P-TRAP WITH OPEN GRID STRAINER AND CHROME PLATED TAILPIECE.<br>ACCESSORIES: PROVIDE A WATTS MODEL NO. LFMMV POINT-OF-USE THERMOSTAIC MIXING VALVE, 2.2 GPM FLOW. TRUBRO "LAV GUARD" MODEL NO. 102-EZ MOLDED COVERING FOR WATER AND WASTE PIPING. PROVIDE FLOOR SET CONCEALED ARM FIXTURE CARRIER. | | | 1 1/2" | 1 1/2" | 0.5 GPM | 1/2" | 1/2" |
| P-4 | SINK -BREAK ROOM | FIXTURE: JUST MODEL NO. SL-ADA-2122-A-GR 18 GAGE, TYPE 304 STAINLESS STEEL SINGLE BOWL SINK, 19" X 16" X 5-3/8" DEEP BOWL WITH FULLY UNDERCOATED BOWL, 3-HOLES AND ADA COMPLIANT.<br>FAUCET: CHICAGO MODEL NO. 786-E3XKABCP DECK MOUNTED FAUCET WITH HOT AND COLD 4" WRIST BLADE CONTROLLERS, GOOSENECK RIGID/SWING SPOUT AND 2.2 GPM AERATOR. PROVIDE FAUCET WITH LEAD-FREE BRASS CONSTRUCTION, 1/4 TURN CERAMIC CARTRIDGES.<br>STRAINER: ELKAY MODEL NO. LK35 SINK DRAIN OUTLET FITTING WITH 3-INCH BASKET STRAINER<br>ACCESSORIES: PROVIDE A WATTS MODEL NO. LFMMV POINT-OF-USE THERMOSTAIC MIXING VALVE, 2.2 GPM FLOW. | | | 1 1/2" | 1 1/2" | 1.5 GPM | 1/2" | 1/2" |
| P-4A | SINK - SHOP AREA WITH PLASTER TRAP | FIXTURE: JUST MODEL NO. NSFB-130-24L 14 GAGE, TYPE 304 STAINLESS STEEL SINGLE BOWL SINK WITH SIDE DRAIN BOARD, SUPPORT LEGS<br>FAUCET: CHICAGO MODEL NO. 540-LDL5VBCP WALL MOUNTED FAUCET WITH HOT AND COLD MANUAL LEVERL HANDLES, 5 ¾' SWING SPOUT WITH ATMOSPHERIC VACUUM BREAKER. PROVIDE FAUCET WITH LEAD-FREE BRASS CONSTRUCTION, 1/4 TURN CERAMIC CARTRIDGES AND 2.5 GPM FLOW RATE.<br>STRAINER: JUST MODEL NO. D55-7510 TWIST DRAIN OUTLET FITTING WITH 3 1/2-INCH STRAINER<br>ACCESSORIES: PROVIDE A WATTS MODEL NO. LFMMV POINT-OF-USE THERMOSTAIC MIXING VALVE, 2.5 GPM FLOW. ZURN MODEL 1184 BOTTOM ACCESS SOILD INTERCEPTOR. | | | 1 1/2" | 1 1/2" | 1.5 GPM | 1/2" | 1/2" |
| P-4B | SINK - DYE VAT WITH EEW-1 AND TMV-2 | FIXTURE: JUST MODEL NO. NSFB-130-24L 14 GAGE, TYPE 304 STAINLESS STEEL SINGLE BOWL SINK WITH SIDE DRAIN BOARD, SUPPORT LEGS<br>FAUCET: CHICAGO MODEL NO. 540-LDL5VBCP WALL MOUNTED FAUCET WITH HOT AND COLD MANUAL LEVERL HANDLES, 5 ¾' SWING SPOUT WITH ATMOSPHERIC VACUUM BREAKER. PROVIDE FAUCET WITH LEAD-FREE BRASS CONSTRUCTION, 1/4 TURN CERAMIC CARTRIDGES AND 2.5 GPM FLOW RATE.<br>STRAINER: JUST MODEL NO. D55-7510 TWIST DRAIN OUTLET FITTING WITH 3 1/2-INCH STRAINER<br>ACCESSORIES: PROVIDE A WATTS MODEL NO. LFMMV POINT-OF-USE THERMOSTAIC MIXING VALVE, 2.5 GPM FLOW. | | | 1 1/2" | 1 1/2" | 1.5 GPM | 1/2" | 1/2" |
| P-4C | SINK - PAINT ROOM WITH EEW-2 AND TMV-2 | FIXTURE: JUST MODEL NO. NSFB-130-24L 14 GAGE, TYPE 304 STAINLESS STEEL SINGLE BOWL SINK WITH 12" HIGH BACK SPLASH, SUPPORT LEGS<br>FAUCET: CHICAGO MODEL NO. 540-LDL5VBCP WALL MOUNTED FAUCET WITH HOT AND COLD MANUAL LEVERL HANDLES, 5 ¾' SWING SPOUT WITH ATMOSPHERIC VACUUM BREAKER. PROVIDE FAUCET WITH LEAD-FREE BRASS CONSTRUCTION, 1/4 TURN CERAMIC CARTRIDGES AND 2.5 GPM FLOW RATE.<br>STRAINER: JUST MODEL NO. J-35-BLA-2 TWIST DRAIN OUTLET FITTING WITH 3 1/2-INCH STRAINER<br>ACCESSORIES: PROVIDE A WATTS MODEL NO. LFMMV POINT-OF-USE THERMOSTAIC MIXING VALVE, 2.5 GPM FLOW. | | | 1 1/2" | 1 1/2" | 1.5 GPM | 1/2" | 1/2" |
| P-4D | 2-COMPARTMENT SINK | FIXTURE: JUST MODEL NO. NSFB-242- 12 1/2 14 GAGE, TYPE 304 STAINLESS STEEL DOUBLE COMPARTMENT SINK WITH 12" HIGH BACK SPALSH AND SUPPORT LEGS<br>FAUCET: CHICAGO MODEL NO. 540-LDL5VBCP WALL MOUNTED FAUCET WITH HOT AND COLD MANUAL LEVERL HANDLES, 5 ¾' SWING SPOUT WITH ATMOSPHERIC VACUUM BREAKER. PROVIDE FAUCET WITH LEAD-FREE BRASS CONSTRUCTION, 1/4 TURN CERAMIC CARTRIDGES AND 2.5 GPM FLOW RATE.<br>STRAINER: JUST MODEL NO. D55-7510 TWIST DRAIN OUTLET FITTING WITH 3 1/2-INCH STRAINER<br>ACCESSORIES: PROVIDE A WATTS MODEL NO. LFMMV POINT-OF-USE THERMOSTAIC MIXING VALVE, 2.5 GPM FLOW. | | | 1 1/2" | 1 1/2" | 1.5 GPM | 1/2" | 1/2" |
| P-5A | SHOWER - ADA | FIXTURE: SHOWER ENCLOSURE PROVIDED BY OTHERS, SEE ARCHITECTURAL PLANS.<br>FAUCET: POWERS MODEL NO. e710J101YO HAND HELD SHOWER WITH 24" ADA WITH SLIDE AND GRAB BAR THERMOSTATIC CONTROL VALVE CONTROLLER AND CONCEALED DIVERTER VALVE CONTROLLER.<br>ACCESSORY: ISENBERG CASCADE SERIES MODEL NO. CFB.2150 IN-WALL CASCADE FLOW TUB FILLER CONSTRCUTED OF STAINLESS STEEL, CONCEALED IN-WALL VALVE,5.0 GPM FLOW RATE AND CHROME FINISH. | | | 2" | 1 1/2" | 2.5 GPM | 1/2" | 1/2" |
| P-6 | JANITOR'S SINK | FIXTURE: STERNS WILLAMS MODEL NO. HL-1800 24" X 24" X 12" MARBLE AND CONCRETE ONE-PIECE MOLDED HIGH IMPACT RESISTANT SERVICE SINK WITH INTERGRAL, MOLDED 3" DRAIN OPENING AND STAINLESS STEEL CAP ON THRESHOLD.<br>FAUCET: CHICAGO MODEL NO. 897-CP POLISHED CHROME-PLATED CAST BRASS 8" SERVICE SINK FACUET WITH QUARTER TURN CERAMIC DISC CARTRIDGES, 3/4" HOSE THREADED OUTLET, PAIL HOOK AND ADJUSTABLE WALL BRACE. PROVIDE WITH LEVER HANDLES WITH HOT/COLD TEXT INDEX AND ATMOSHPERIC VACUUM BREAKER COMPLY WITH ASSE 1001-2002.<br>STRAINER: REMOVABLE STAINLESS STEEL COMBINATION DOME STRAINER AND LINT BASKET.<br>ACCESSORIES: 24" X 24" WALL GUARDS, MOP BRACKET, 30" RUBBER HOSE, MOUNTING BRACKET AND STAINLESS STEEL BUMPER GUARDS FOR BASIN. | | | 3" | 2" | 1.5 GPM | 3/4" | 3/4" |
| P-7 | WASHDOWN OUTLETS | FIXTURE: ACORN MODEL NO. 8109 RECESSED HOSE AND SUPPLY BOX CONNECTION WITH LOCKABLE DOOR, 3/4" NPT FEMALE SUPPLY OULLETS, 3/4" MALE THREADED HOSE CONNECTION. BOX TO BE CONSTRUCTED OF ONE PIECE CAST CONSTRUCTION OF LUMALOY WITH PLAIN FINISH. FRAME AND DOOR TO HAVE A PRIME COAT FINISH READY FOR PAINT. LOCAK TO BE LOOSE KEY TYPE, PROVIDE WITH INLINE VACUUM BREAKER ASSE STANDARD 1052. | | | 1/4" | 1/4" | 0.5 GPM | 1/2" | 1/2" |
| P-8 | GUY GREY BOX | FIXTURE: IPS CORPORATION, GUY GREY MODEL B200 WASTE AND WATER CONNECTION BOX. 2" WASTE OPENING, 1/2" HOT AND COLD WATER CONNECTIONS WITH ISOLATION VALVES WITH GALVANIZED HOT DIPPED G90, 20 GAUGE BOX WITH 20 GAUGE FACEPLATE. | | | 1 1/2" | 1 1/2" | 1.5 GPM | 1/2" | 1/2" |
| P-10 | WALL FAUCET | FIXTURE: CHICAGO MODEL NO. 305-VBLEARCF WALLMOUNTED HOT AND COLD WALL FAUCET WITH RIGID SPOUT AND ATMOPHERIC VACUUM BREAKER. | | | 1/4" | 1/4" | 0.5 GPM | 1/2" | 1/2" |

## PLUMBING PUMP SCHEDULE (PP)

| UNIT TAG | QTY. | LOCATION | SYSTEM SERVED | SYSTEM TYPE | SYSTEM TEMPERATURE | PUMP TYPE | DESIGN CAPACITY (GPM) | DESIGN HEAD (FT HD) | DESIGN FT. HD. AT 115% (FT) | MOTOR HP | MOTOR RPM | PUMP CONNECTION SUCTION (IN) | PUMP CONNECTION DISCHARGE (IN) | ELECTRICAL CONNECTION | EMERGENCY POWER | BASIS OF DESIGN MANUFACTURER | BASIS OF DESIGN MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PP-1 | 1 | LEVEL 2 MECH PENTHOUSE | POTABLE WATER | POTABLE | 120 | IN-LINE | 8 | 25 | 30 | 1/6 | 3300 | 1 1/4" | 1 1/4" | 120 | NO | B & G | LR-36 | |
| PP-2 | 1 | LEVEL 2 MECH PENTHOUSE | POTABLE WATER | POTABLE | 120 | IN-LINE | 8 | 25 | 30 | 1/6 | 3300 | 1 1/4" | 1 1/4" | 120 | NO | B & G | LR-36 | |

## BOOSTER PUMP SCHEDULE (BP)

| UNIT TAG | LOCATION | SYSTEM TYPE | PUMP VSD (Y/N) | PUMP TYPE | PUMP: TOTAL SYSTEM CAPACITY (GPM) | PUMP: FT. HD. | PUMP: DIFFERENTAL PRESSURE BOOST (PSIG) | PUMP: QTY. OF PUMPS | PUMP: HP | PUMP: CAPACITY PER PUMP | PUMP: PUMP SHUT-OFF (PSIG) | SUCTION (INLET) PRESSURE MIN (PSIG) | PUMP STATION LOSS (FT HD) | DESIGN DISCHARGE PRESSURE (PSIG) | PUMP REQUIRED TOTAL DYNAMIC BOOST (FT HD) | PUMP SUCTION (INLET) CONNECTION (IN.) | DISCHARGE (OUTLET) CONNECTION (IN.) | HYDRO-PNEUMATIC TANK CAPACITY | ELECTRICAL: VOLTAGE | ELECTRICAL: PHASE | ELECTRICAL: EMERGENCY POWER | ELECTRICAL: CONTROL PANEL | ELECTRICAL: VFD(S) | ELECTRICAL: PUMP CONTROL | BASIS OF DESIGN: MANUFACTURER | BASIS OF DESIGN: MODEL NO. | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DWBP-1 | 2ND LEVEL MECHANICAL ROOM | DOMESTIC WATER | YES | STAINLESS STEEL MULTI-STAGE | 120 | 85 | 50 | 2 | 3.0 | 60 | 75 | 35 | 5 | 70 | 85 | 3" | 3" | 68 GALLONS | 460 | 3 | NO | BY DIV 22 | YES | DIV 22 | XYLEM | HVL2D3-10SV | PROVIDE SKID MOUNTED BOOSTER PUMP SYSTEM TO INCLUDE SINGLE POINT CONNECTION CONTROL PANEL, VDF'S, SHUTOOF VALVES, PRESSURE GAUGES. PROVIDE A B & G MODEL NO. WT-404 VERTICAL HYDRO-PNEUMAIC TANK RATED FOR POTABLE WATER |

HamiltonAnderson
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HGA

WAYNE STATE UNIVERSITY


Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

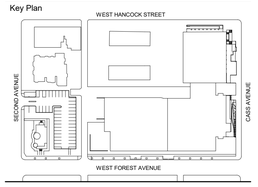
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# PLUMBING SCHEDULES

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

P8.1

BIM 360://WSU Hilberry Gateway/MP18 - WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version

## SYMBOL EXPLANATION

A 23 b — 1 UPPER CASE LETTERS WITH NUMBER INDICATES LUMINAIRE TYPE. (REFER TO THE E500 LUMINAIRE SCHEDULE)
2 NUMBER INDICATES CIRCUIT CONNECTION.
3. LOWER CASE LETTER INDICATES CONTROL DEVICE.

L6-30 — SPECIAL RECEPTACLES. THE NEMA STANDARD TYPE IS SHOWN WITH AN UPPER CASE LETTER. TYPE AS NOTED. EXAMPLE: NEMA L6-30R, 250V, SINGLE PHASE, 30A, TWIST-LOCK RECEPTACLE

PTR 2 — THE CIRCUIT DESIGNATION IS SHOWN BY NUMBER ADJACENT TO EQUIPMENT. ABBREVIATION NEXT TO CIRCUIT NUMBER INDICATES A DEDICATED CIRCUIT FOR THAT TYPE OF EQUIPMENT. EXAMPLE: WALL MOUNTED DUPLEX RECEPTACLE ON DEDICATED CIRCUIT NUMBER 2 FOR A PRINTER.

SYMBOL SEE MECHANICAL EQUIPMENT SCHEDULE FOR COMPLETE ELECTRICAL INFORMATION. EXAMPLE: EXHAUST FAN #1

PLAN KEY NOTE. SEE KEY NOTE SCHEDULE ON THAT DRAWING. ARROW POINTS TO THE ITEM TO WHICH THE NOTE APPLIES.

ELP1 2,4,6 — 3/4"C #8 — INDIVIDUAL HOME RUN TO BRANCH CIRCUIT PANELBOARD. PANELBOARD AND CIRCUIT DESIGNATION ARE PLACED ADJACENT TO HOMERUN ARROW. REFER TO PANEL SCHEDULES FOR AMPS AND NUMBER OF POLES. EXAMPLE: HOMERUN TO PANEL ELP1. UNDESIGNATED TICK MARKS INDICATE #12 CONDUCTORS; NO TICK MARKS INDICATE 2 #12 CONDUCTORS. CONDUCTOR SIZES INDICATED ADJACENT TO SLASH MARKS SHALL APPLY TO ENTIRE CIRCUITS. PROVIDE MINIMUM #12 AWG CONDUCTORS FOR HOMERUNS, #10 AWG CONDUCTORS FOR HOMERUNS THAT EXCEED 100 FEET (30480mm) FOR 120 VOLT CIRCUITS AND 250FEET (76200mm) FOR 277 VOLT CIRCUITS. HOMERUNS SHALL BE CONSIDERED TO ORIGINATE FROM THE POWER SOURCE TO THE FIRST PIECE OF EQUIPMENT OR DEVICE.

WIRELESS DEVICE

### COMMUNICATIONS ROUGH-IN REQUIREMENTS

| | BACK BOX SIZE | RACEWAY SIZE |
|---|---|---|
| W — WALL PHONE VOICE OUTLET | 4" x 4" SQUARE W/ SINGLE GANG TRIM RING | 3/4" |
| DATA OUTLET | 4" x 4" SQUARE W/ SINGLE GANG TRIM RING | 3/4" |
| WAP — WIRELESS LAN OUTLET | 4" x 4" SQUARE W/ SINGLE GANG TRIM RING | 3/4" |
| DATA OUTLET | 4- 11/16" x 4- 11/16" SQUARE W/ SINGLE GANG TRIM RING | 3/4" |
| 4 — QUAD DATA OUTLET | 4- 11/16" x 4- 11/16" SQUARE W/ SINGLE GANG TRIM RING | 1" |

COMMUNICATIONS ROUGH-IN REQUIREMENT NOTES:

A. PROVIDE CONDUIT FROM WALL MOUNTED COMMUNICATIONS DEVICE BACK BOXES TO NEAREST ACCESSIBLE CABLE TRAY. CONDUIT SHALL RUN BETWEEN ACCESSIBLE CEILING SPACES AND ACOUSTICAL CEILINGS.

B. FOLLOW PROPER INSTALLATION OF BACK BOXES AND RACEWAYS PENETRATING THROUGH ACOUSTICAL WALLS.

C. PROVIDE PULL STRINGS IN ALL ROUGH-INS.

## ABBREVIATIONS

| | |
|---|---|
| A or AMP | AMPERE |
| A/V or AV | AUDIO/VISUAL |
| AC | ALTERNATING CURRENT |
| ACS | AUTOMATIC CONTROL SYSTEM |
| AFF | ABOVE FINISHED FLOOR |
| AIC | AMPERE INTERRUPTING RATING |
| AL | ALUMINUM |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AUX | AUXILIARY |
| AWG | AMERICAN WIRE GAUGE |
| BAS | BUILDING AUTOMATION SYSTEM |
| BIO | BIOMETRIC |
| BMS | BUILDING MANAGEMENT SYSTEM |
| C | CONDUIT |
| CATV | CABLE TELEVISION |
| CLG | CEILING |
| COFF | COFFEE MAKER |
| CU | COPPER |
| dB | DECIBEL |
| DC | DIRECT CURRENT |
| DED | DEDICATED CIRCUIT |
| DIA | DIAMETER |
| DSP | DIGITAL SIGNAL PROCESSOR |
| DW | DISH WASHER |
| ELEC | ELECTRICAL |
| EMI | ELECTROMAGNETIC INTERFERENCE |
| EMT | ELECTRICAL METALLIC TUBING |
| EWC | ELECTRIC WATER COOLER |
| EXST | EXISTING |
| FA | FIRE ALARM |
| FAAP | FIRE ALARM ANNUCIATOR PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| FLA | FULL-LOAD AMPERE |
| FP | FURNITURE POWER |
| FSS | FUSED SAFETY SWITCH |
| GAP | GENERATOR ANNUCIATOR PANEL |
| GD | GARBAGE DISPOSAL |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GND | GROUND |
| HH | HANDHOLE |
| HMT | HARMONIC MITIGATING TRANSFORMER |
| HP | HORSE POWER |
| HRZ | HORIZONTAL |
| Hz | HERTZ |
| I/O | IN-BOARD/OUT-BOARD |
| IG | ISOLATED GROUND |
| IP | INTERNET PROTOCOL |
| IPC | INTERGRATED POWER CENTER |
| IR | INFRARED |
| kHz | KILOHERTZ |
| KK | KIRK KEY |
| KV | KILOVOLT |
| KVA | KILOVOLT-AMPERE |
| KW | KILOWATT |
| LAN | LOCAL AREA NETWORK |
| LCP | LIGHTING CONTROL PANEL |
| LED | |
| LSI | LONG TIME SHORT TIME INSTANTANEOUS |
| LV | LOW-VOLTAGE |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MCB | MAIN CIRCUIT BREAKER |
| MH | MANHOLE |
| MLO | MAIN LUG ONLY |
| MM | MULTI-MODE |
| MMCS | MANUAL MOTOR CONTROL SWITCH |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MSS | MOTOR STARTER SWITCH |
| MV | MEDIUM VOLTAGE |
| MW | MICROWAVE |
| N | NEUTRAL |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NFPA | NATIONAL FIRE PROTECTION AGENCY |
| NFSS | NON-FUSED SAFETY SWITCH |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OCPD | OVER CURRENT PROTECTIVE DEVICE |
| P | POLE |
| PB | PULL BOX |
| PF | POWER FACTOR |
| PH or Ø | PHASE |
| PNL | PANEL |
| POS | POINT OF SALE |
| PR | PAIR |
| PRI | PRIMARY |
| PTR | PRINTER |
| PTZ | PAN TILT ZOOM |
| PVC | POLYVINYL CHLORIDE |
| RCPT | RECEPTACLE |
| REF | REFRIGERATOR |
| RF | RADIO FREQUENCY |
| RX | RECEIVE/RECEIVER |
| SEC | SECONDARY |
| SM | SINGLEMODE |
| SPD | SURGE PROTECTION DEVICE |
| ST | SHUNT TRIP |
| STP | SHIELDED TWISTED PAIR |
| TBB | TELECOMMUNICATIONS BONDING BACKBONE |
| TELECOM | TELECOMMUNICATIONS |
| TGB | TELECOMMUNICATIONS GROUNDING BUSBAR |
| TIA | TELECOMMUNICATIONS INDUSTRIES ASSOCIATION |
| TYP | TYPICAL |
| UL | UNDERWRITERS LABORATORIES |
| UNO | UNLESS OTHERWISE NOTED/UNLESS NOTED OTHERWISE |
| UPS | UNINTERRUPTABLE POWER SUPPLY |
| UTP | UNSHIELDED TWISTED PAIR |
| V | VOLT |
| VA | VOLT-AMPERE |
| VEND | VENDING |
| VGA | VIDEO GRAPHICS ARRAY |
| VSD/VFD/VFC | VARIABLE SPEED DRIVE/ FREQUENCY DRIVE / FREQUENCY CONTROLLER |
| W | WATT |
| WAP | WIRELESS ACCESS POINT |
| WP | WEATHER-PROOF |
| XFMR | TRANSFORMER |

## ELECTRICAL SYMBOLS

| SYMBOL | DESCRIPTION | NOMINAL MOUNTING HEIGHT |
|---|---|---|
| | **LIGHTING** | |
| | RECESSED MOUNTED LIGHT FIXTURES | ** |
| | SURFACE MOUNTED LIGHT FIXTURES | ** |
| | SUSPENDED MOUNTED LIGHT FIXTURES | ** |
| | RECESSED LIGHT FIXTURES ON CRITICAL POWER CIRCUIT | ** |
| | SURFACE MOUNTED LIGHT FIXTURES ON CRITICAL POWER CIRCUIT | ** |
| | RECESSED LIGHT FIXTURES ON LIFE SAFETY (S) POWER CIRCUIT | ** |
| | SURFACE MOUNTED LIGHT FIXTURES ON LIFE SAFETY (S) POWER CIRCUIT | ** |
| | RECESSED INDIRECT LIGHT FIXTURE (ORIENTATION OF BASKET INDICATED BY LINE IN CENTER OF FIXTURE) | ** |
| | EXIT SIGN SHADED PORTION OF EXIT SIGN INDICATES FACE(S) TO BE ILLUMINATED. | ** |
| | LIGHT TRACK | ** |
| | POLE MOUNTED LIGHT FIXTURE | ** |
| | WALL MOUNTED LIGHT FIXTURE | ** |
| | ARROW OF LIGHT FIXTURE INDICATES AIMING DIRECTION | ** |
| | POST TOP LIGHT FIXTURE | ** |
| | EMERGENCY LIGHTING UNIT WITH BATTERY PACK | ** |
| | **SWITCHES** | |
| $ | SINGLE POLE SWITCH | 46" |
| $ 2 | 2 POLE SWITCH | 46" |
| $ 3 | 3 WAY SWITCH | 46" |
| $ 4 | 4 WAY SWITCH | 46" |
| $ L | LOW VOLTAGE SWITCH | 46" |
| $ D | DIMMER SWITCH | 46" |
| $ K | KEY OPERATED SWITCH | 46" |
| $ M | MOMENTARY CONTACT SWITCH | 46" |
| $ WP | WEATHERPROOF SWITCH | 46" |
| $ P | SWITCH WITH PILOT LIGHT | 46" |
| $ MMCS | MANUAL MOTOR CONTROL SWITCH | 46" |
| $ MSS | MOTOR STARTER SWITCH | 46" |
| T | DIGITAL TIME SWITCH | 46" |
| O | OCCUPANCY SENSOR | ** |
| V | VACANCY SENSOR (MANUAL ON OCCUPANCY) | ** |
| P | PHOTO SENSOR | ** |

| SYMBOL | DESCRIPTION | NOMINAL MOUNTING HEIGHT |
|---|---|---|
| | **POWER** | |
| | SINGLE RECEPTACLE | 18" |
| | DUPLEX 125V RECEPTACLE | 18" |
| | EMERGENCY DUPLEX 125V RECEPTACLE | 18" |
| | GFCI PROTECTED DUPLEX 125V RECEPTACLE | 18" |
| IG | ISOLATED GROUND DUPLEX 125V RECEPTACLE | 18" |
| IG | EMERGENCY ISOLATED GROUND DUPLEX 125V RECEPTACLE | 18" |
| | DUPLEX W/ USB COMBO | 18" |
| IG | ISOLATED GROUND DUPLEX W/ USB COMBO | 18" |
| | EMERGENCY DUPLEX W/ USB COMBO | 18" |
| IG | EMERGENCY ISOLATED GROUND DUPLEX W/ USB COMBO | 18" |
| | DOUBLE DUPLEX 125V RECEPTACLE | 18" |
| | GFCI PROTECTED DOUBLE DUPLEX 125V RECEPTACLE | 18" |
| IG | ISOLATED GROUND DOUBLE DUPLEX 125V RECEPTACLE | 18" |
| IG | EMERGENCY ISOLATED GROUND DOUBLE DUPLEX 125V RECEPTACLE | 18" |
| L5-20 | SPECIAL PURPOSE RECEPTACLE. LABEL INDICATES RECEPTACLE TYPE. | ** |
| | SWITCHED OR SPLIT WIRED RECEPTACLE | ** |
| | JUNCTION BOX | |
| | FLOOR BOX CAST-IN-PLACE | |
| | POKE THROUGH | |
| | PEDESTAL DUPLEX 125V RECEPTACLE SERVICE FITTING | |
| | CEILING MOUNTED DUPLEX 125V | |
| | RECEPTACLE | |
| | **120V CONTROLLED RECEPTACLES** | |
| | DUPLEX 120V RECEPTACLE - FULL CONTROLLED | 18" |
| | DUPLEX 120V RECEPTACLE - HALF CONTROLLED | |
| | GFCI QUAD 120V RECEPTACLE - FULL CONTROLLED | 18" |
| | GFCI QUAD 120V RECEPTACLE - HALF CONTROLLED | 18" |
| | QUAD 120V RECEPTACLE - FULL CONTROLLED | 18" |
| | QUAD 120V RECEPTACLE - HALF CONTROLLED | 18" |

| SYMBOL | DESCRIPTION | NOMINAL MOUNTING HEIGHT |
|---|---|---|
| | **POWER DISTRIBUTION** | |
| | MOTOR | ** |
| | COMPANY SWITCH RECEPTACLE | ** |
| | COMPANY SWITCH | ** |
| | SAFETY DISCONNECT SWITCH | ** |
| | FUSED STARTER | ** |
| | COMBINATION STARTER | ** |
| VSD | VARIABLE SPEED DRIVE | ** |
| T | DRY TYPE TRANSFORMER-FLOOR MOUNT | ** |
| T | DRY TYPE TRANSFORMER - CEILING/WALL MOUNT | ** |
| | POWER OR DISTRIBUTION PANEL | ** |
| | SURFACE MTD PANELBOARD | ** |
| | FLUSH MTD PANELBOARD | ** |
| | GROUND BUS BAR | |
| | **COMMUNICATION** | |
| | DATA OUTLET. TYPICAL OUTLET TO HAVE 1 DATA JACK UNLESS INDICATED BY LABEL | 18" |
| W | WALL PHONE DATA OUTLET. TYPICAL OUTLET TO HAVE 1 DATA JACK UNLESS INDICATED BY LABEL | 48" |
| WAP | WIRELESS LAN DATA OUTLET. TYPICAL OUTLET TO HAVE 1 DATA JACK UNLESS INDICATED BY LABEL | CLG |
| TV | TV OUTLET | ** |
| | INTERCOM | ** |
| | J-HOOK | ** |
| M | MICROPHONE JACK | ** |
| A | AUXILIARY OUTLET | ** |
| P | PROJECTOR OUTLET | ** |
| R | REMOTE CONTROL | ** |
| C | CLOCK | ** |
| CH | CHIME | ** |
| CH | CHIME LIGHT | ** |
| S | SPEAKER | ** |
| E | EFFECTS SPEAKER OUTLET | ** |
| V | VOLUME CONTROL | ** |
| | PUSHBUTTON | ** |
| | **SECURITY** | |
| ES | ELECTRIC STRIKE | ** |
| CR | CARD READER | 46" |
| CR KP | CARD READER W/ KEY PAD | 46" |
| DC | DOOR CONTACT | ** |
| ML | MAGNETIC LOCK | ** |
| | SURVEILLANCE CAMERA | ** |
| | CEILING MOUNTED SURVEILLANCE CAMERA | ** |
| DB | DURESS BUTTON | ** |
| MON | MONITOR | ** |
| M | MOTION SENSOR - CEILING MOUNTED | ** |
| M | MOTION SENSOR - WALL MOUNTED | ** |
| S | SIREN | ** |
| KP IDS | IDS ACTIVATION/ DEACTIVATION KEYPAD | 46" |
| GB | GLASS BREAK SENSOR | ** |
| PH | POWER TRANSFER HINGE | ** |
| C | DOOR CONTROLLER | ** |
| X | REQUEST TO EXIT - BUTTON | 46" |
| X | REQUEST TO EXIT - MOTION SENSOR | ** |
| DE | DELAYED EGRESS | ** |
| EL | ELECTRIC LOCK | ** |

| SYMBOL | DESCRIPTION | NOMINAL MOUNTING HEIGHT |
|---|---|---|
| | **FIRE ALARM** | |
| S | SMOKE DETECTOR | ** |
| S | DUCT SMOKE DETECTOR | ** |
| FS | SPRINKLER FLOW SWITCH | ** |
| TS | TAMPER SWITCH | ** |
| DA | DAMPER OPERATOR W/MONITOR MODULE | ** |
| F | FIRE ALARM MANUAL STATION | 46" |
| F | FIRE ALARM AUDIO-VISUAL UNIT | CLG MTD OR 80" |
| F | FIRE ALARM VISUAL UNIT | CLG MTD OR 80" |
| F | FIRE ALARM AUDIO UNIT | CLG MTD OR 80" |
| F | FIRE ALARM PHONE JACK | 46" |
| H | HEAT DETECTOR | ** |
| S | BEAM DETECTOR RECEIVER | ** |
| S | BEAM DETECTOR TRANSMITTER | ** |
| MM | ADDRESSABLE MODULE | ** |
| CM | ADDRESSABLE CONTROL MODULE | ** |
| F | FIRE ALARM CONTROL CONNECTION | ** |
| | CONDUIT AND WIRING | |
| | CONDUIT CONCEALED IN WALL OR OVERHEAD | ** |
| | CONDUIT CONCEALED IN OR BELOW FLOOR | ** |
| | CONDUIT INSTALLED EXPOSED | ** |
| | CONDUIT VERTICAL TRANSITION | ** |
| | CONDUIT STUBBED OUT | ** |
| | CONDUIT SEAL | ** |
| | EXISTING CONDUIT | ** |
| | EXISTING CONDUIT INTERCEPTED | ** |
| | SINGLE CHANNEL SURFACE RACEWAY | |
| | DUAL CHANNEL SURFACE RACEWAY | |
| PS | PLUG STRIP | |

**MISCELLANEOUS**

DASHED SYMBOL INDICATES EXISTING DEVICES TO BE REMOVED.

** SEE DRAWING, SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR MOUNTING HEIGHT

## ELECTRICAL SHEET INDEX


| | | | | | |
|---|---|---|---|---|---|
| E0.0 | ELECTRICAL SYMBOLS AND SHEET INDEX | E3.1A | LEVEL ONE POWER PLAN - SECTOR A | E4.4B | TECH LEVEL SYSTEMS PLAN - SECTOR B |
| E0.1 | ELECTRICAL GENERAL NOTES | E3.1B | LEVEL ONE POWER PLAN - SECTOR B | E4.5B | GRIDIRON LEVEL SYSTEMS PLAN - SECTOR B |
| E0.2 | VALADE CENTER ELECTRICAL ONE-LINE | E3.1C | LEVEL ONE POWER PLAN - SECTOR C | E5.0A | LUMINAIRE SCHEDULES |
| E0.3 | HILBERRY ELECTRICAL ONE-LINE | E3.2A | LEVEL TWO POWER PLAN - SECTOR A | E5.0B | LUMINAIRE SCHEDULES |
| E1.0A | LOWER LEVEL DEMOLITION PLAN - SECTOR A | E3.2B | LEVEL TWO POWER PLAN - SECTOR B | E5.1 | ELECTRICAL EQUIPMENT SCHEDULE |
| E1.1A | LEVEL ONE DEMOLITION PLAN - SECTOR A | E3.2C | LEVEL TWO POWER PLAN - SECTOR C | E5.2 | ELECTRICAL PANEL SCHEDULE |
| E1.2A | LEVEL TWO DEMOLITION PLAN - SECTOR A | E3.3B | CONTROL LEVEL POWER PLAN - SECTOR B | E5.3 | ELECTRICAL PANEL SCHEDULE |
| E2.0A | LOWER LEVEL LIGHTING PLAN - SECTOR A | E3.4B | TECH LEVEL POWER PLAN - SECTOR B | E5.4 | ELECTRICAL PANEL SCHEDULE |
| E2.0B | LOWER LEVEL LIGHTING PLAN - SECTOR B | E3.5B | GRIDIRON LEVEL POWER PLAN - SECTOR B | E5.5 | ELECTRICAL PANEL SCHEDULE |
| E2.1A | LEVEL ONE LIGHTING PLAN - SECTOR A | E4.0A | LOWER LEVEL SYSTEMS PLAN - SECTOR A | E5.6 | ELECTRICAL PANEL SCHEDULE |
| E2.1B | LEVEL ONE LIGHTING PLAN - SECTOR B | E4.0B | LOWER LEVEL SYSTEMS PLAN - SECTOR B | E6.0 | ELECTRICAL DETAILS |
| E2.1C | LEVEL ONE LIGHTING PLAN - SECTOR C | E4.1A | LEVEL ONE SYSTEMS PLAN - SECTOR A | E6.1 | ELECTRICAL DETAILS |
| E2.2A | LEVEL TWO LIGHTING PLAN - SECTOR A | E4.1B | LEVEL ONE SYSTEMS PLAN - SECTOR B | E6.2 | ELECTRICAL DETAILS |
| E2.2B | LEVEL TWO LIGHTING PLAN - SECTOR B | E4.1C | LEVEL ONE SYSTEMS PLAN - SECTOR C | E7.0 | SYSTEMS DETAILS |
| E2.2C | LEVEL TWO LIGHTING PLAN - SECTOR C | E4.2A | LEVEL TWO SYSTEMS PLAN - SECTOR A | E7.1 | TELECOM ENLARGED PLANS AND DETAILS |
| E2.4B | TECH LEVEL LIGHTING PLAN - SECTOR B | E4.2B | LEVEL TWO SYSTEMS PLAN - SECTOR B | EM8.0 | ELECTRICAL MECHANICAL COORDINATION SCHEDULES |
| E3.0A | LOWER LEVEL POWER PLAN - SECTOR A | E4.2C | LEVEL TWO SYSTEMS PLAN - SECTOR C | EM8.1 | ELECTRICAL MECHANICAL COORDINATION SCHEDULES |
| E3.0B | LOWER LEVEL POWER PLAN - SECTOR B | E4.3B | CONTROL LEVEL SYSTEMS PLAN - SECTOR B | | |



HamiltonAnderson
architecture landscape architecture urban design

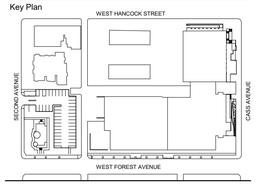
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202


Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ELECTRICAL SYMBOLS AND SHEET INDEX

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# E0.0

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

GENERAL NOTES:

A. ELECTRICAL ORDINANCES:
ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND FEDERAL LAWS OR ORDINANCES GOVERNING THE PROJECT. IF, IN ANY INSTANCE, THE PLANS AND SPECIFICATIONS ARE IN DIRECT CONFLICT WITH SUCH CODES, LAWS OR ORDINANCES, THE CODE, LAWS AND ORDINANCES SHALL HAVE JURISDICTION AND THE WORK IN QUESTION SHALL BE INSTALLED ACCORDING TO THE CODES, LAWS AND ORDINANCES. ALL WORK SHALL BE INSTALLED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN.

B. BRING DISCREPANCIES SHOWN ON DIFFERENT DRAWINGS AND BETWEEN DRAWINGS AND SPECIFICATIONS OR BETWEEN DOCUMENTS AND FIELD CONDITIONS TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.

C. COORDINATE ELECTRICAL INSTALLATION WITH ALL OTHER CONTRACTORS AND OWNER FOR THE LOCATION AND SIZES OF ALL EQUIPMENT PRIOR TO ROUGH-IN. SHOULD ELECTRICAL WORK BE INSTALLED WHICH INTERFERES WITH THE WORK OF OTHER CONTRACTORS OR OWNER, SUCH WORK SHALL BE CHANGED WITH NO ADDITIONAL COST TO OWNER.

D. MOUNT EQUIPMENT AT NOMINAL MOUNTING HEIGHT INDICATED IN ELECTRICAL SYMBOL SCHEDULE UNLESS NOTED OTHERWISE ON THE FLOOR PLANS OR DETAILED IN ARCHITECTURAL ELEVATIONS. DIMENSION SHOWN IS TO CENTER LINE OF BOX. SEE ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS FOR EXACT LOCATION OF WALL MOUNTED DEVICES AND LIGHT FIXTURES.

E. COORDINATE LOCATION AND MOUNTING OF DEVICES WITH MILLWORK AND CASEWORK.

F. COORDINATE DEVICE LOCATIONS AND ELEVATIONS AT ALL WORKSTATIONS WITH FINAL FURNITURE PLANS AND SHOP DRAWINGS PRIOR TO DEVICE ROUGH-IN.

G. REFER TO THE ARCHITECTURAL DETAILS AND ELEVATION DRAWINGS FOR COORDINATION OF ELECTRICAL DEVICES.

H. CONDUCTORS SHALL BE COPPER, UNLESS SPECIFIED OTHERWISE. BUILDING POWER WIRING SHALL HAVE THHN/THWN INSULATION. CONDUCTOR AMPACITY SHALL BE BASED ON TABLE 310-16 OF THE NEC. USE 60-DEGREE C RATING FOR CIRCUITS TERMINATING ON DEVICES RATED BELOW 100A. USE 75-DEGREE RATING FOR CIRCUITS TERMINATING ON DEVICES AND IN ENCLOSURES RATED 100A AND OVER.

I. INSTALL INSULATED GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.

J. DRAWINGS INDICATE DESIGN LOADS, VOLTAGES, CORRESPONDING CONTROL EQUIPMENT, FEEDERS AND OVER CURRENT DEVICES. IF EQUIPMENT ACTUALLY FURNISHED HAVE LOADS OTHER THAN THOSE INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN, CONTROL EQUIPMENT, FEEDERS AND OVER CURRENT DEVICES SHALL BE ADJUSTED IN SIZE ACCORDINGLY AT NO ADDITIONAL COST TO THE OWNER. SUCH ADJUSTMENT SHALL BE SUBJECT TO THE REVIEW OF THE ARCHITECT PRIOR TO ACCEPTANCE OR PURCHASE.

K. ALL DEVICES SHALL BE INSTALLED TO COMPLY WITH ADA STANDARDS FOR ACCESSIBLE DESIGN.

L. IN GENERAL, BRANCH CIRCUIT CONDUIT AND WIRE IS NOT SHOWN. PROVIDE CONDUIT AND WIRE TO CONNECT DEVICES TO CIRCUITS SHOWN. WIRE FILL AND CONDUCTOR SIZE SHALL BE AS SPECIFIED. PROVIDE A MAXIMUM OF THREE PHASE CONDUCTORS IN A SINGLE HOME RUN. PROVIDE A DEDICATED NEUTRAL FOR EACH PHASE CONDUCTOR UNLESS OTHERWISE NOTED. INSTALL PULL BOXES AND JUNCTION BOXES AS REQUIRED TO AID IN THE INSTALLATION OF CABLES AND CONDUCTORS. LABEL LOCATION OF POWER CIRCUITS ON COVER OF ALL RECEPTACLES AND ON COVER OF JUNCTION BOXES AND BOXES ASSOCIATED WITH EQUIPMENT. INCLUDE PANEL AND CIRCUIT IDENTIFICATION. LABEL LOCATION OF POWER CIRCUITS ON COVER OF ALL LIGHT SWITCHES. INCLUDE PANEL AND CIRCUIT IDENTIFICATION.

M. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL LOCATION OF CEILING MOUNTED EQUIPMENT. MOUNT RECESSED CEILING FIXTURES WITH FLEXIBLE METAL CONDUIT OF LENGTH REQUIRED TO MEET MOUNTING LOCATION AND NEC REQUIREMENTS. MAXIMUM FLEXIBLE CONDUIT LENGTH SHALL BE (6') SIX FEET.

N. INSTALL ALL ITEMS NECESSARY TO COMPLETE THE INSTALLATION. TOUCH-UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT, DEMOLITION OR INSTALLATION.

O. SUBMIT SHOP DRAWINGS OF ALL NEW EQUIPMENT, DEVICES, FIXTURES AND CABLES/CONDUCTORS TO BE INSTALLED IN SYSTEM FOR WRITTEN APPROVAL FROM ENGINEER PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

P. ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

Q. MAINTAIN FIRE RATING WHERE RACEWAYS, CABLING, DEVICES, ETC. PENETRATE A FIRE RATED STRUCTURE. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS AND CEILINGS. FIRE PROOF ALL PENETRATIONS AS REQUIRED.

R. SEAL INTERIOR OF ALL CONDUITS WHERE THEY PENETRATE WALLS, FLOORS, OR CEILINGS ENTERING OR EXITING STAIRWELLS.

S. COORDINATE DOOR HARDWARE REQUIREMENTS WITH ARCHITECTURAL DOOR HARWARE SCHEDULE AND SPECIFICATIONS SECTION 087100.

DEMOLITION NOTES:

T. EXISTING EQUIPMENT, DEVICES, AND LIGHTS INDICATED ON PLAN WERE TAKEN FROM EXISTING PLANS AND/OR FIELD OBSERVATION, AND SHALL NOT BE CONSIDERED COMPLETELY ACCURATE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATIONS OF EXISTING SYSTEMS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WHICH MAY AFFECT ANY WORK UNDER THIS CONTRACT.

U. CONTRACTOR SHALL FIELD VERIFY EXACT CONDITIONS PRIOR TO ANY DEMOLITION. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF ADJACENT CIRCUITS TO DEVICES OR EQUIPMENT THAT ARE TO REMAIN DURING CONSTRUCTION. REROUTE CONDUIT AND WIRING AS NECESSARY.

V. ELECTRICAL DEVICES AND EQUIPMENT SHOWN AS DASHED ARE TO BE DEMOLISHED AND IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DISPOSE OF UNLESS NOTED OTHERWISE. ELECTRICAL DEVICES/EQUIPMENT SHOWN WITH LIGHT SOLID LINE TYPE ARE EXISTING TO REMAIN. ANY ITEMS TO BE TURNED OVER TO FACILITIES MANAGEMENT WILL BE NOTED.

LIGHTING NOTES:

W. COORDINATE EGRESS LIGHTING AND EXIT REQUIREMENTS WITH ARCHITECTURAL LIFE SAFETY PLANS.

X. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF LUMINAIRES IN MECHANICAL ROOMS WITH DUCTS, PIPES, AND EQUIPMENT. MOUNT LUMINAIRES BELOW DUCTS AND PIPES AND DO NOT MOUNT LUMINAIRES OVER EQUIPMENT. SUPPORT LUMINAIRES INDEPENDENTLY OF DUCTS, PIPES, AND EQUIPMENT.

Y. PROVIDE AUXILIARY CONTACTS WITH ALL OCCUPANCY AND VACANCY SENSORS FOR BAS/BMS STATUS OUTPUT.

Z. LIGHT SWITCHES SHALL BE MOUNTED ON LATCH SIDE OF DOOR, WITHIN 12 INCHES OF DOOR/SIDELIGHT FRAMING, UNLESS NOTED OTHERWISE. LIGHT SWITCHES INSTALLED ADJACENT TO DOOR SWINGS SHALL BE MOUNTED CLEAR OF DOOR SWING AND WITHIN 12 INCHES OF DOOR IN OPEN POSITION. COORDINATE LOCATION WITH OTHER WALL DEVICES

AA. REFER TO EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR WALL MOUNTED FIXTURES.

BB. WHERE OCCUPANCY AND VACANCY SENSORS ARE SHOWN, PROVIDE APPROPRIATE TYPES AND QUANTITIES OF SENSORS TO ACCOMMODATE ROOM GEOMETRY. REFER TO SPEC SECTION 260923 FOR DETAILS. INSTALL OCCUPANCY AND VACANCY SENSORS AT LOCATIONS RECOMMENDED BY MANUFACTURER. SEE OCCUPANCY AND VACANCY SENSOR SHOP DRAWINGS FOR REFERENCE.

POWER NOTES:

CC. PROVIDE AN ALLOWANCE FOR (5) 120V 20A BRANCH CIRCUITS PER LEVEL TO SERVE BUILDING AUTOMATION CONTROL PANELS AND VAV TERMINAL UNIT CONTROLLERS. ALLOW FOR A MINIMUM DISTANCE OF 100 FEET PER CIRCUIT. FINAL CIRCUIT QUANTITIES AND LOCATIONS SHALL BE COORDINATED WITH THE BUILDING AUTOMATION CONTRACTOR.

DD. COORDINATE WITH MECHANICAL DRAWINGS AND ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS AND QUANTITIES OF FIRE SMOKE DAMPERS AND DAMPER OPERATORS. PROVIDE A DEDICATED 20A, 120V CIRCUIT FOR EVERY 8 120V DAMPERS.

EE. PROVIDE RED CIRCUIT BREAKER "LOCK-ON" DEVICES FOR FACP CIRCUIT(S); INCLUDING BUT NOT LIMITED TO THE MAIN FIRE ALARM CONTROL PANEL, NETWORK FIRE-ALARM PANELS, NAC, AMP, AND SLC POWER SUPPLIES, RELEASING PANELS, SMOKE/ FIRE DAMPERS, DRY-PIPE COMPRESSORS, ETC.

FF. REFER TO ME800 SHEET FOR ADDITIONAL MOTOR INFORMATION.

GG. DEVICES AND EQUIPMENT SHALL BE CIRCUITED FROM PANELS AS INDICATED BY THE CIRCUITING BOUNDARY SHOWN ON THE PLAN UNLESS NOTED OTHERWISE.

HH. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION FOR FEEDERS AND ELECTRICAL EQUIPMENT.

II. PROVIDE POWER CONNECTIONS TO NEW OR RELOCATED MECHANICAL EQUIPMENT.

SYSTEMS NOTES:

JJ. COORDINATE WITH MECHANICAL DRAWINGS AND ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS AND QUANTITIES OF FIRE SMOKE DAMPERS AND DAMPER OPERATORS.

KK. COORDINATE CABLE TRAY ROUTING WITH ALL TRADES. MAINTAIN 6" SEPARATION FROM LIGHT FIXTURE BALLASTS.

LL. PROVIDE TELECOMMUNICATIONS RACEWAYS, BACK BOXES, CABLE TRAY, CABLING, EQUIPMENT RACKS, PATCH PANELS, ALL CABLE TERMINATIONS AND CABLE TESTING. REFER TO DIVISION 27 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IT ELECTRONIC EQUIPMENT BY OWNER'S IT DEPARTMENT.

MM. PROVIDE SECURITY SYSTEMS RACEWAYS AND BACK BOXES, CABLING, EQUIPMENT RACKS, PATCH PANELS, ALL CABLE TERMINATIONS AND CABLE TESTING. SECURITY ELECTRONIC EQUIPMENT SHALL BE OWNER PROVIDED. COORDINATE RACEWAY, BACKBOX, AND CABLING REQUIREMENTS WITH OWNER'S SECURITY REPRESENTATIVE. REFER TO DIVISION 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NN. PROVIDE AUDIO/VISUAL SYSTEMS RACEWAYS AND BACKBOXES. AUDIO/VISUAL SYSTEMS CABLING AND ELECTRONIC EQUIPMENT SHALL BE OWNER PROVIDED. COORDINATE RACEWAY AND BACKBOX REQUIREMENTS WITH OWNER'S AUDIO/VISUAL SYSTEM CONTRACTOR.

OO. PROVIDE FIRE ALARM CONTROL MODULE FOR DAMPER CONTROL. DAMPERS SHALL CLOSE PER SMOKE COMPARTMENT ZONES. REFER TO LIFE SAFETY PLANS AND MECHANICAL PLAN. PROVIDE 120V EMERGENCY EQUIPMENT POWER CONNECTION TO EACH DAMPER. DAMPERS CAN BE COMBINED ON A DEDICATED CIRCUIT TO A MAXIMUM LOAD OF 10A AND A MAXIMUM QUANTITY OF SEVEN DAMPERS. REFER TO DAMPER MANUFACTURER FOR LOAD REQUIREMENTS. PROVIDE CIRCUIT BREAKER "LOCK-ON" IN PANEL. PROVIDE AN ALLOWANCE FOR (25) INSTALLATIONS WITHIN THE FACILITY.

PP. MOUNT SMOKE DETECTORS AT LEAST 4 INCHES FROM WALL, 12 INCHES FROM ANY SPRINKLER, AND 3 FEET FROM SUPPLY AIR DIFFUSERS.

QQ. FINAL FIRE ALARM CEILING DEVICES LOCATED IN OPEN CEILINGS SHALL BE COORDINATED IN THE FIELD WITH OTHER CEILING ELEMENTS PRIOR TO INSTALLATION. FIRE ALARM CEILING DEVICES SHALL NOT BE CONCEALED FROM VIEW BY OTHER DISCIPLINE ELEMENTS. WHERE DISCREPANCIES ARISE CONTACT THE ENGINEER OF RECORD.

RR. COORDINATE WITH MECHANICAL DRAWINGS AND ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS AND QUANTITIES OF FIRE SMOKE DAMPERS AND DAMPER OPERATORS.

SS. FOR WALL FIRE ALARM DEVICE LOCATIONS SPECIFIED FOR ROUGH-IN, PROVIDE RED 4 11/16 INCH DEEP SQUARE JUNCTION BOX WITH SINGLE-GANG TRIM-RING.

TT. WHERE SMOKE AND HEAT DETECTORS ARE WALL MOUNTED OR PENDANT SUSPENDED DEVICES, SHALL NOT BE INSTALLED LOWER THAN 12 INCHES BELOW THE CEILING LINE.

UU. WHERE DUCT SMOKE DETECTORS ARE INSTALLED FOR DAMPER CLOSURE FUNCTION OR HVAC UNIT SHUT DOWN FUNCTION SHALL BE INSTALLED WITHIN 5 FEET OF THE ASSOCIATED DAMPER OR HVAC UNIT.

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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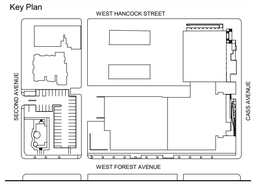
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202


Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

ELECTRICAL GENERAL NOTES

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

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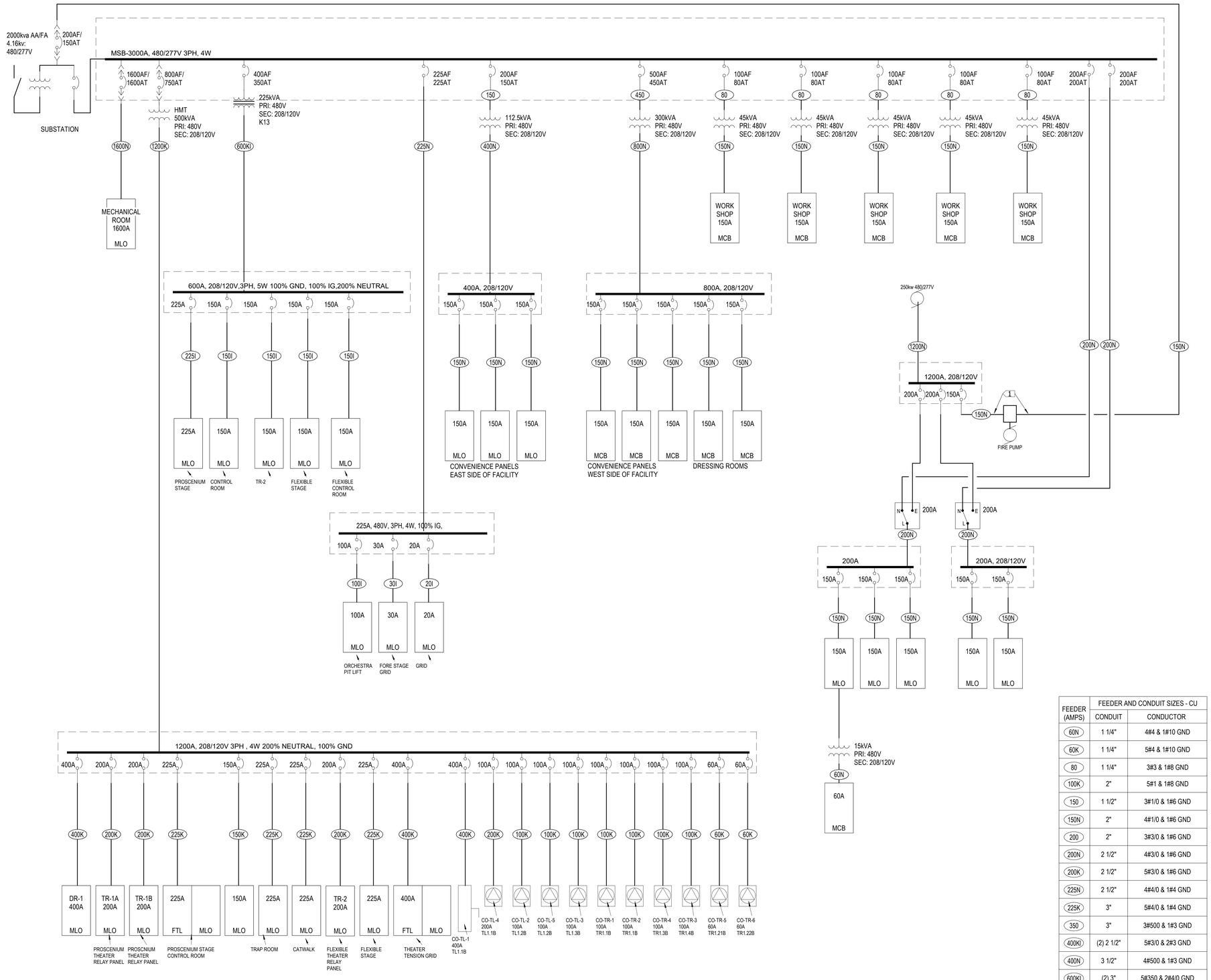
Signature:

Drawing No:

E0.1

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001001.rvt




1 ELECTRICAL ONE-LINE/RISER DIAGRAM
NTS

| FEEDER (AMPS) | FEEDER AND CONDUIT SIZES - CU | |
|---|---|---|
| | CONDUIT | CONDUCTOR |
| 60N | 1 1/4" | 4#4 & 1#10 GND |
| 60K | 1 1/4" | 5#4 & 1#10 GND |
| 80 | 1 1/4" | 3#3 & 1#8 GND |
| 100K | 2" | 5#1 & 1#8 GND |
| 150 | 1 1/2" | 3#1/0 & 1#6 GND |
| 150N | 2" | 4#1/0 & 1#6 GND |
| 200 | 2" | 3#3/0 & 1#6 GND |
| 200N | 2 1/2" | 4#3/0 & 1#6 GND |
| 200K | 2 1/2" | 5#3/0 & 1#6 GND |
| 225N | 2 1/2" | 4#4/0 & 1#4 GND |
| 225K | 3" | 5#4/0 & 1#4 GND |
| 350 | 3" | 3#500 & 1#3 GND |
| 400KI | (2) 2 1/2" | 5#3/0 & 2#3 GND |
| 400N | 3 1/2" | 4#500 & 1#3 GND |
| 600KI | (2) 3" | 5#350 & 2#4/0 GND |
| 800N | (3) 3" | 4#300 & 1#1/0 GND |
| 1200N | (4) 3" | 4#350 & 1#3/0 GND |
| 1200K | (4) 3" | 5#350 & 2#3/0 GND |
| 1600 | (5) 3" | 3#400 & 1#4/0 GND |

NOTES:
* VOLTAGE DROP CONSIDERATIONS NOT TAKEN INTO CONSIDERATION IN TABLE.

100= 3 WIRES
100N= 4 WIRES
100K= 200% NEUTRAL
100I= ISOLATED GROUND

GENERAL NOTES

A. REFER TO ME800 SHEET FOR ADDITIONAL MOTOR INFORMATION, CONDUIT, AND CONDUCTOR SIZES TO MECHANICAL EQUIPMENT.

B. REFER TO THE MECHANICAL DRAWINGS AND COORDINATE WITH DIVISION 23 FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT.

C. REFER TO FEEDER SCHEDULE FOR WIRE AND CONDUIT SIZES AS WELL AS FEEDER REQUIREMENTS.

D. REFER TO PANEL SCHEDULES FOR RATINGS AND ADDITIONAL REQUIREMENTS OF PANELBOARDS AND DISTRIBUTION BOARDS.

E. ELECTRICAL FEEDERS AND EQUIPMENT SHOWN WITH LIGHT LINES ARE EXISTING TO REMAIN. ALL ELECTRICAL EQUIPMENT SHOWN WITH DARK DASHED LINES ARE NEW.

KEYNOTES:

1. PROVIDEINSTALLATION OF CONDUIT AND CABLING SERVING FIRE PUMP UNDERSLAB OR WITHIN CONCRETE ENCASEMENT WHICH MEETS 2 HR. PROTECTION DEFINED WITHIN NEC.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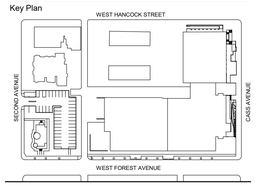
Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## HILBERRY ELECTRICAL ONE-LINE

Project Number: 3995-001-00
Drawn By: BGUTIERREZ
Scale: 1/8" = 1'-0"
Seal:

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Signature:

Drawing No:
# E0.3


Sheet Size: 30" x 42"
- Template Version
BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

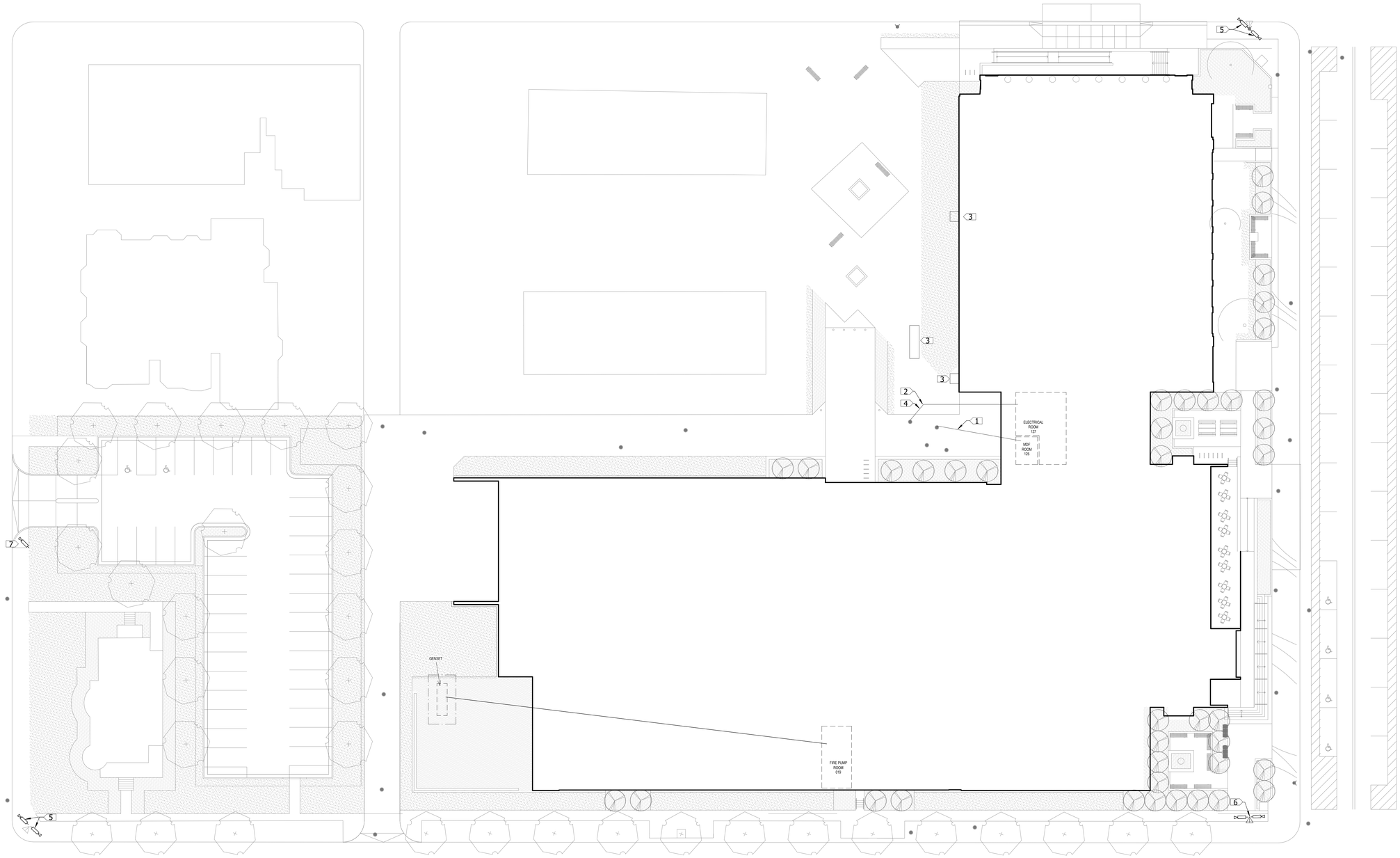
Sheet Size: 30" x 42"
: Template Version

KEYNOTES:

1. PROVIDE (2) 4" PVC SCH 80 CONDUIT CONNECTION BETWEEN EXISTING LOW-VOLTAGE UTILITY MANHOLE AND BUILDING MDF. PROVIDE (3) 1-1/4" INNER DUCTS IN EACH CONDUIT. PROVIDE CONCRETE ENCASEMENT UNDER DRIVEWAY. REFER TO ENLARGED MDF ROOM ON DETAIL 4/E7.1 FOR ADDITIONAL INFORMATION.
2. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PROTECTION OF EXISTING SERVICES WITHIN THIS AREA. COORDINATE ALL UNDERGROUND SYSTEMS/SERVICES WITHIN THIS AREA PRIOR TO BEGINNING EXCAVATION.
3. EXISTING ELECTRICAL UNILITY EQUIPMENT SERVING EXISTING HILBERRY THEATRE ELECTRICALSERVICE. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EQUIPMENT THROUGHOUT PROJECT SCHEDULE.
4. PROVIDE (2) 5" PVC SCH 80 CONDUIT CONNECTION BETWEEN EXISTING ELECTRICAL UTILITY MANHOLE AND MAIN ELECTRICAL ROOM. PROVIDE CONCRETE ENCASEMENT UNDER DRIVEWAY.
5. PROVIDE 6-STRAND MULTIMODE OUTDOOR PLANT RATED FIBER OPTIC CABLING CONNECTION TO EXISTING BLUE LIGHT CALL STATION FROM NEAREST TELECOM ROOM TO SERVE NEW VIDEO SURVEILLANCE CAMERAS.
6. PROVIDE 6-STRAND MULTIMODE OUTDOOR PLANT RATED FIBER OPTIC CABLING CONNECTION TO BLUE LIGHT CALL STATION AND VIDEO SURVEILLANCE CAMERAS FROM NEAREST TELECOM ROOM. PROVIDE 120V POWER CONNECTION TO BLUE LIGHT CALL STATION.
7. PROVIDE 6-STRAND MULTIMODE OUTDOOR PLANT RATED FIBER OPTIC CABLING CONNECTION TO POLE MOUNTED VIDEO SURVEILLANCE CAMERA FROM NEAREST TELECOM ROOM. PROVIDE 120V POWER CONNECTION TO VIDEO SURVEILLANCE CAMERA.

GENERAL NOTES

A. SITE UTILITY SCOPE TO BE COORDINATED WITH (INSERT LOCAL UTILITY).
B. REFER TO GROUNDING PLAN FOR GROUNDING REQUIREMENTS.
C. REFER TO ELECTRICAL DETAILS SHEETS FOR POLE BASE INFORMATION, LIGHTING CONTROL DIAGRAMS, AND ZONE SCHEDULES.
D. CONDUIT ROUTES AS SHOWN ARE DIAGRAMMATIC IN NATURE. FIELD VERIFY ACTUAL CONDUIT ROUTES PRIOR TO INSTALLING CONDUIT. PULLBOXES PROVIDE PULL BOXES FOR SITE CABLING AS REQUIRED, BUT NOT TO EXCEED MORE THAN 200' BETWEEN BOXES.




1 ELECTRICAL SITE PLAN
1" = 20'-0"

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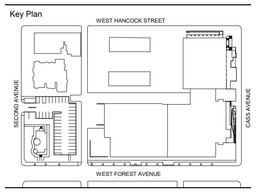
Key Plan

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Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
ELECTRICAL SITE PLAN

Project Number: 3995-001-00
Drawn By: B.GUTIERREZ
Scale: As indicated
Seal:

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Signature:

Drawing No:
E0.4

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

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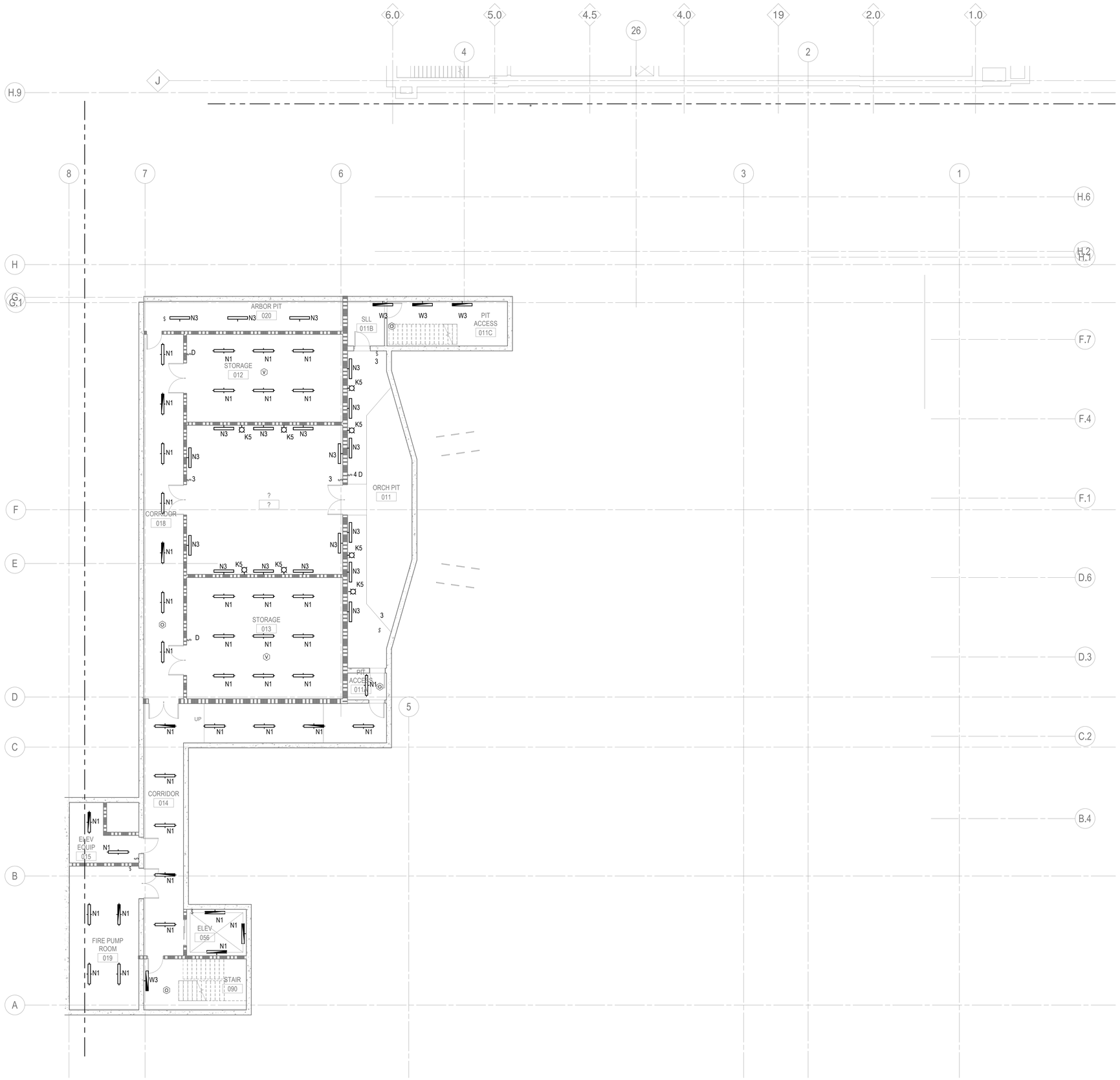


1 LOWER LEVEL LIGHTING PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1.

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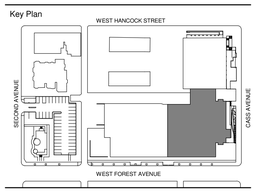


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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LOWER LEVEL LIGHTING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

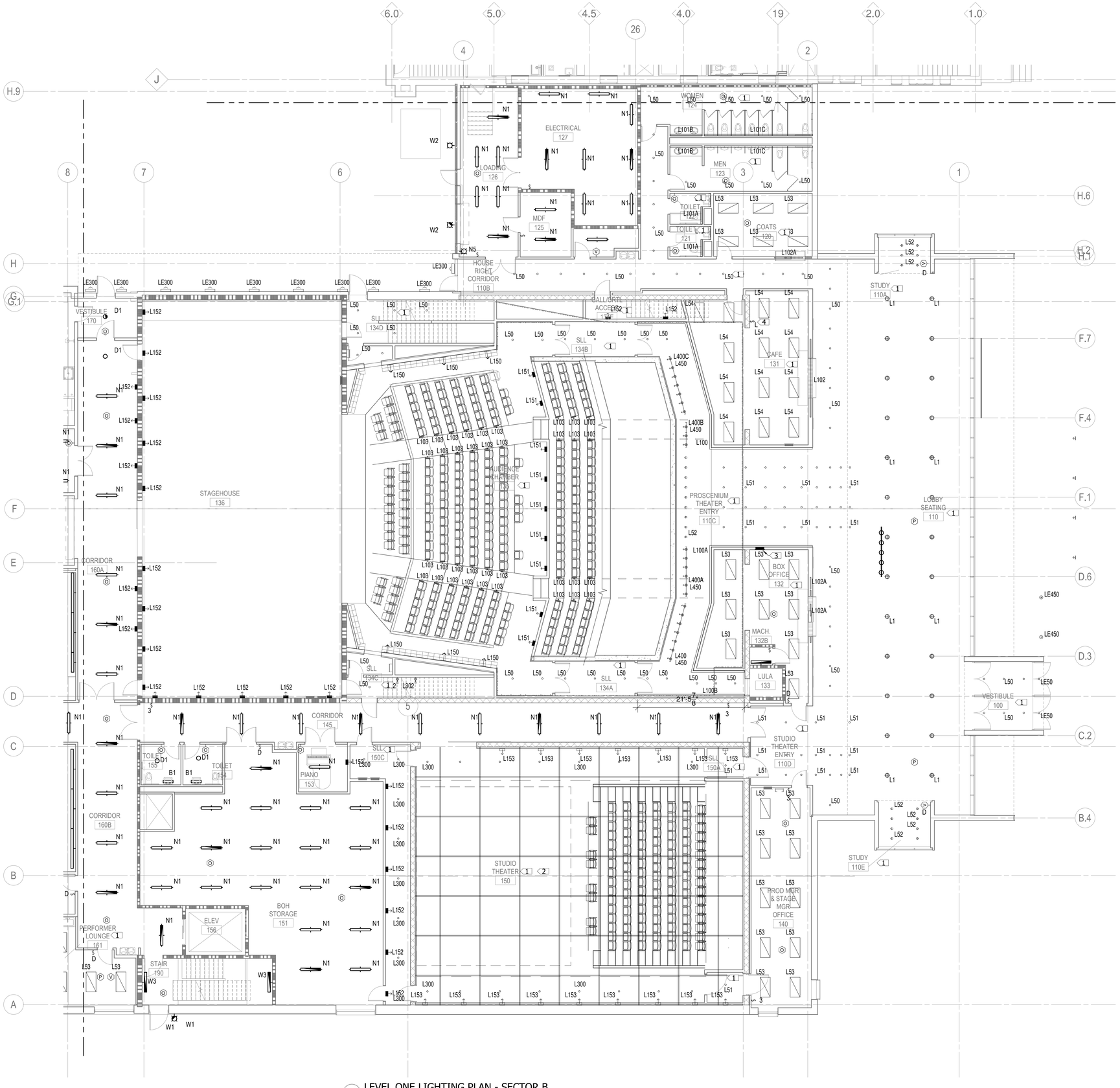
Drawing No:

PLAN NORTH TRUE NORTH

E2.0B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL ONE LIGHTING PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. REFER TO LIGHTING CONSULTANT SPECIFICATIONS FOR LUMINAIRE TYPES IN THIS AREA.
2. ETC PARADIGM CONTROL SYSTEM PREFERRED FOR CONTROL OF ARCHITECTURAL LIGHTING AND ASSOUIATED SLLS.
3. PROVIDE LIGHTING CONTROL TOUCHSCREEN IN BOX OFFICE FOR LOBBY. ETC ECHO OR SIMILAR APPOVED MANUFACTORER.
4. PROVIDE 4 ZONE PUSH BUTTON DIMMER FOR CONTROL OF CAFE LIGHTS.

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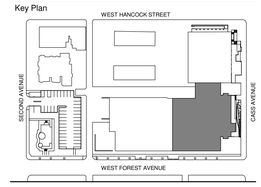
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
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WSU PROJECT NO. 189-178578

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Drawing No:

PLAN NORTH TRUE NORTH

# E2.1B

BIM 360://WSU Hilberry Gateway/E1B-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

KEYNOTES:

1. REFER TO LIGHTING CONSULTANT SPECIFICATIONS FOR LUMINAIRE TYPES IN THIS AREA.

1 LEVEL ONE LIGHTING PLAN - SECTOR C
1/8" = 1'-0"

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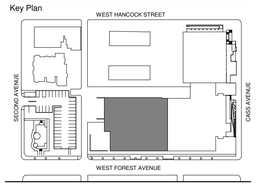
4743 Cass Ave., Detroit, MI 48202

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL ONE LIGHTING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

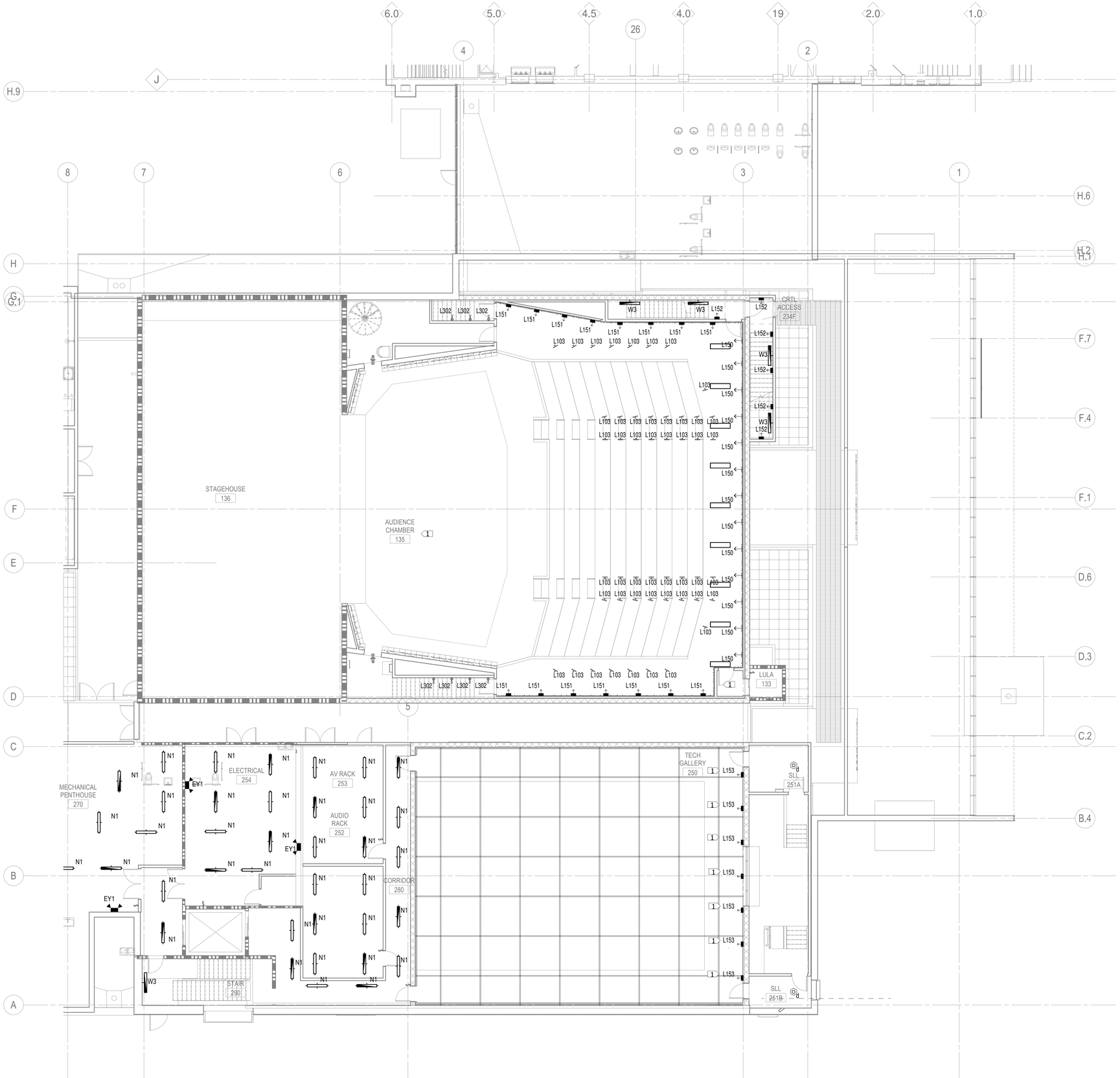
Drawing No:

PLAN NORTH TRUE NORTH

# E2.1C

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL TWO LIGHTING PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. REFER TO LIGHTING CONSULTANT SPECIFICATIONS FOR LUMINAIRE TYPES IN THIS AREA.

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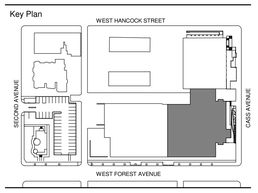
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO LIGHTING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

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Signature:

Drawing No:

PLAN NORTH TRUE NORTH

E2.2B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
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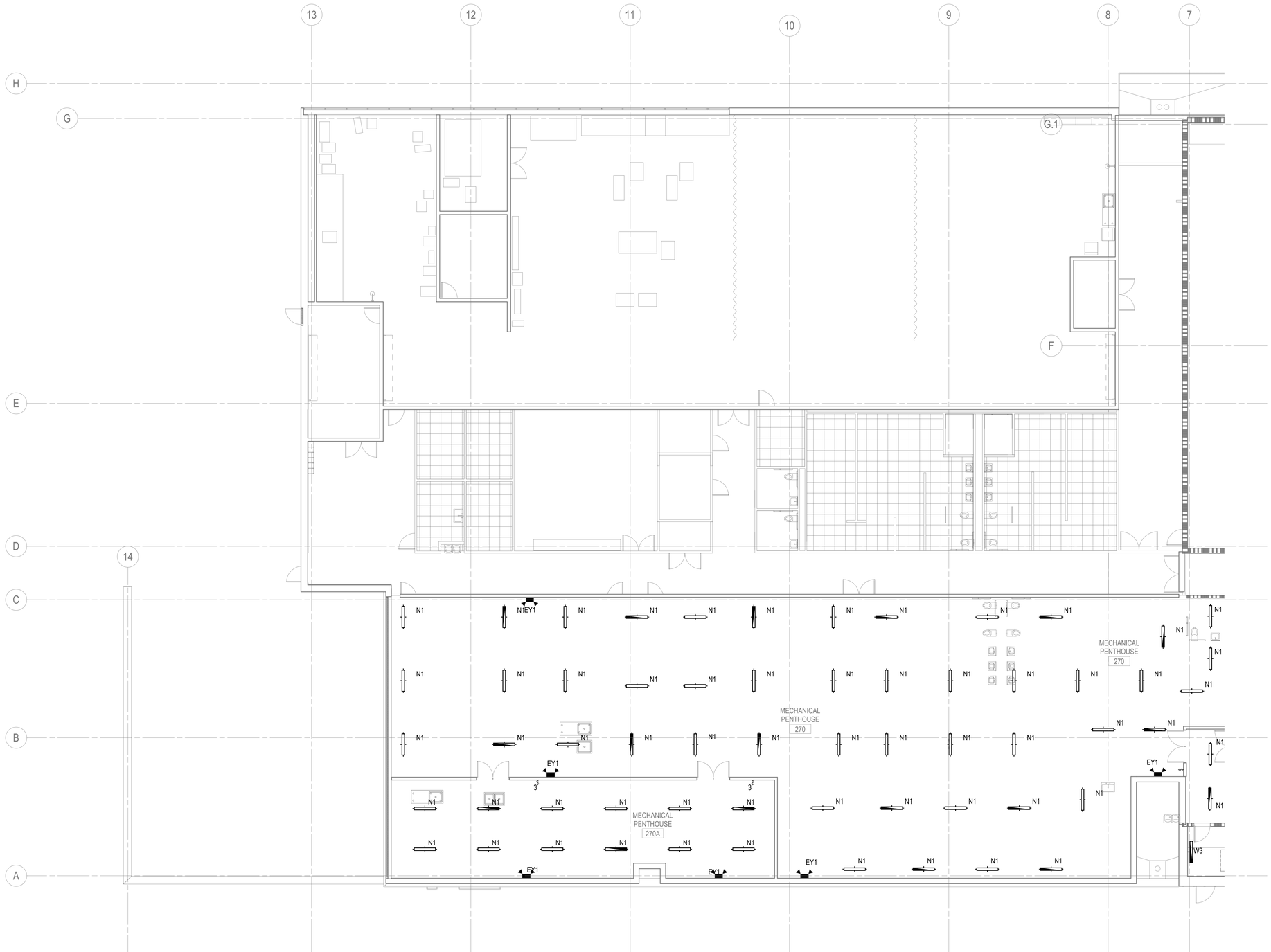


1 LEVEL TWO LIGHTING PLAN - SECTOR C
1/8" = 1'-0"

KEYNOTES:

1.

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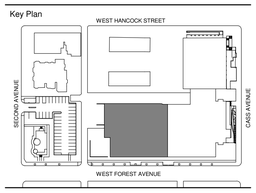
4743 Cass Ave., Detroit, MI 48202

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL TWO LIGHTING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

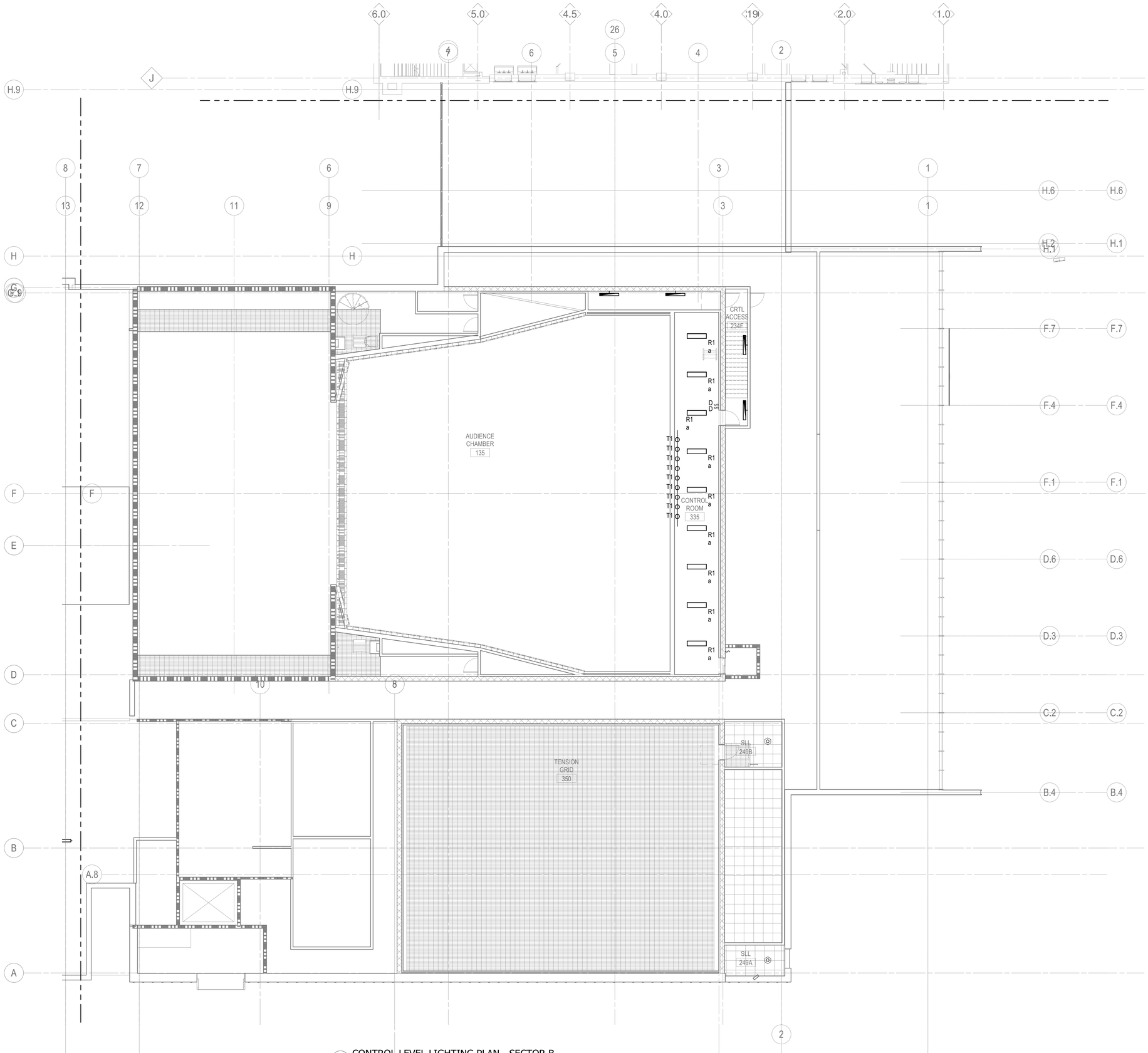
Drawing No:

E2.2C

PLAN NORTH TRUE NORTH

BIM 360://WSU Hilberry Gateway/E18 WSU Hilberry Gateway 3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 CONTROL LEVEL LIGHTING PLAN - SECTOR B
1/8" = 1'-0"

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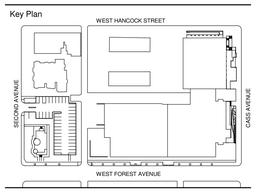
4743 Cass Ave., Detroit, MI 48202

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## CONTROL LEVEL LIGHTING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

E2.3B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

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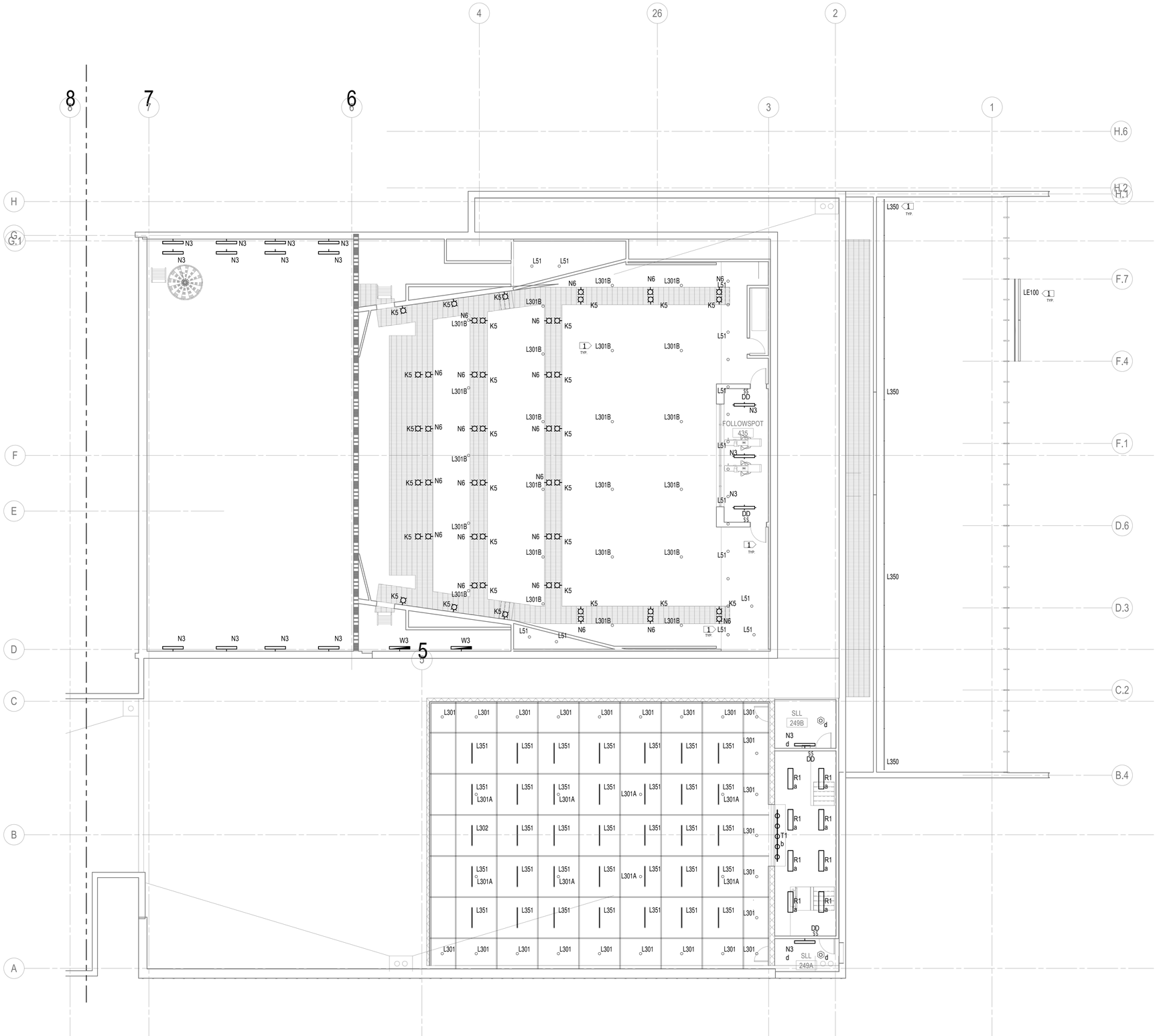


1 TECH LEVEL LIGHTING PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. REFER TO LIGHTING CONSULTANT SPECIFICATIONS FOR LUMINAIRE TYPES IN THIS AREA.

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4743 Cass Ave., Detroit, MI 48202

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TECH LEVEL LIGHTING PLAN - SECTOR B

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PLAN NORTH TRUE NORTH

# E2.4B

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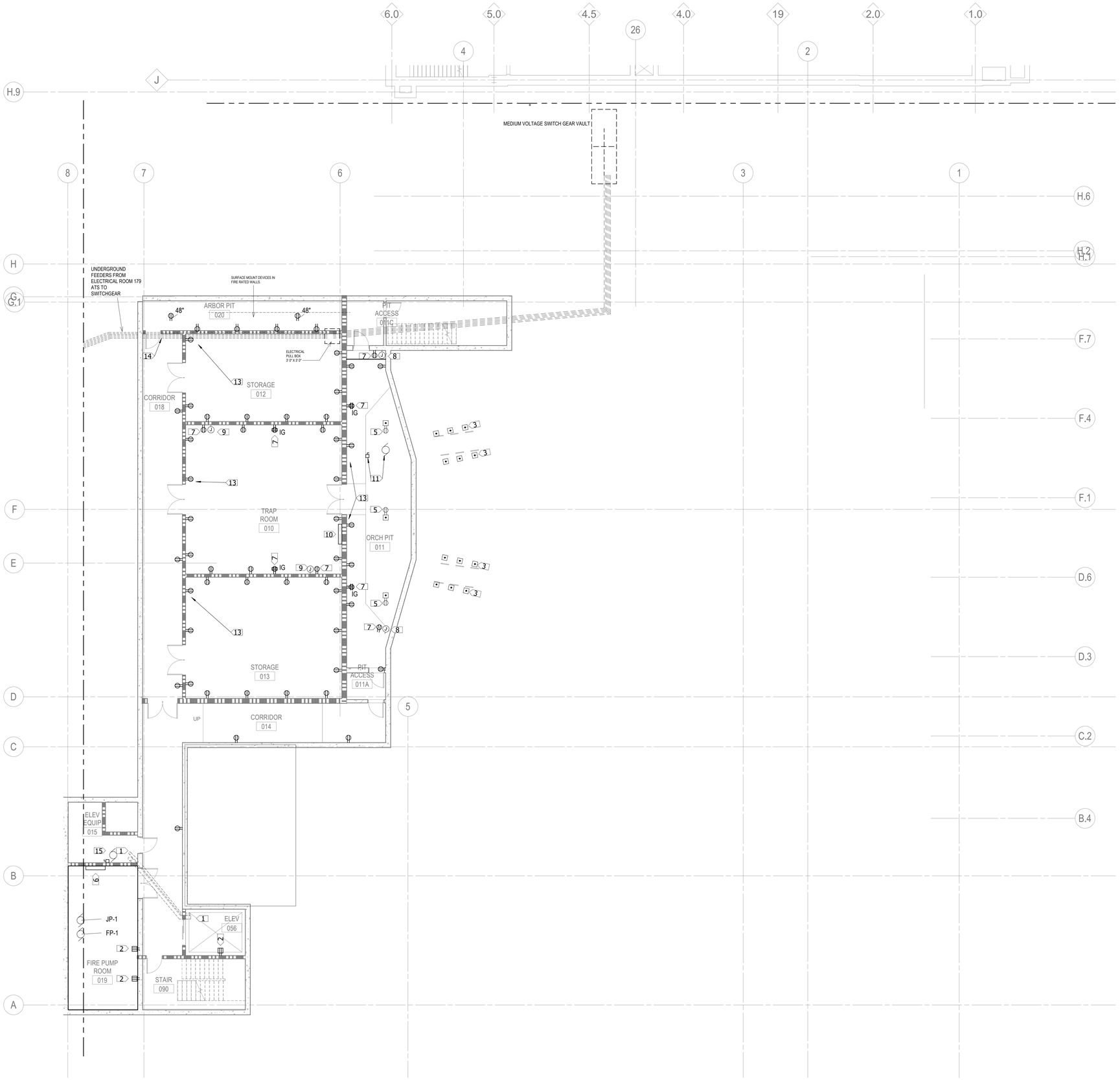


1 LOWER LEVEL POWER PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. TWO PIPE COMING UNDERGROUND FROM ELEVATOR EQUIPMENT ROOM 015 TO ELEVATOR 016 1) 3" FOR ELECTRICAL AND 1) 5" FOR HYDRAULIC LINES.
2. WEATHER PROOF GFCI RECEPTACLE.
3. LOW VOLTAGE AISLE LIGHTING.
4. LOW VOLTAGE TRANSFORMER FOR AISLE LIGHTING.
5. FLOOR DUPLEX MOUNTED IN ORCHESTRA PIT FLOOR.
6. FIRE PUMP CONTROLLER.
7. RECEPTACLE TO BE MOUNTED IN AV BACK BOX
8. (1) DIMMED 20 AMP CIRCUIT
9. (2) DIMMED 20 AMP CIRCUITS
10. ORCHESTRA PIT LIFT CONTROLLER.
11. ORCHESTRA PIT LIFT MOTOR, PROVIDR NON-FUSED DISCONNECT AT LOCATION INDICATED.
12. CONTRACTOR SHALL COORDINATE CAST IN PLACE CONCRETE TRENCH AT INDICATED LOCATION. PROVIDE SHEET METAL COVER. COVER SHALL INSTALL FLUSH TO COVER TRENCH OPENING.
13. SURFACE MOUNT ALL DEVICES ON FIRE RATED WALLS.
14. UNDERGROUND FEEDERS FROM GENERATOR TO SWITCHGEAR.
15. ELEVATOR PUMP AND DISCONNECT

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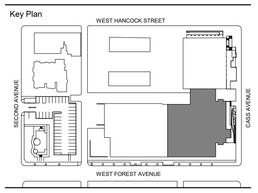


100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LOWER LEVEL POWER PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

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PLAN NORTH — TRUE NORTH

# E3.0B

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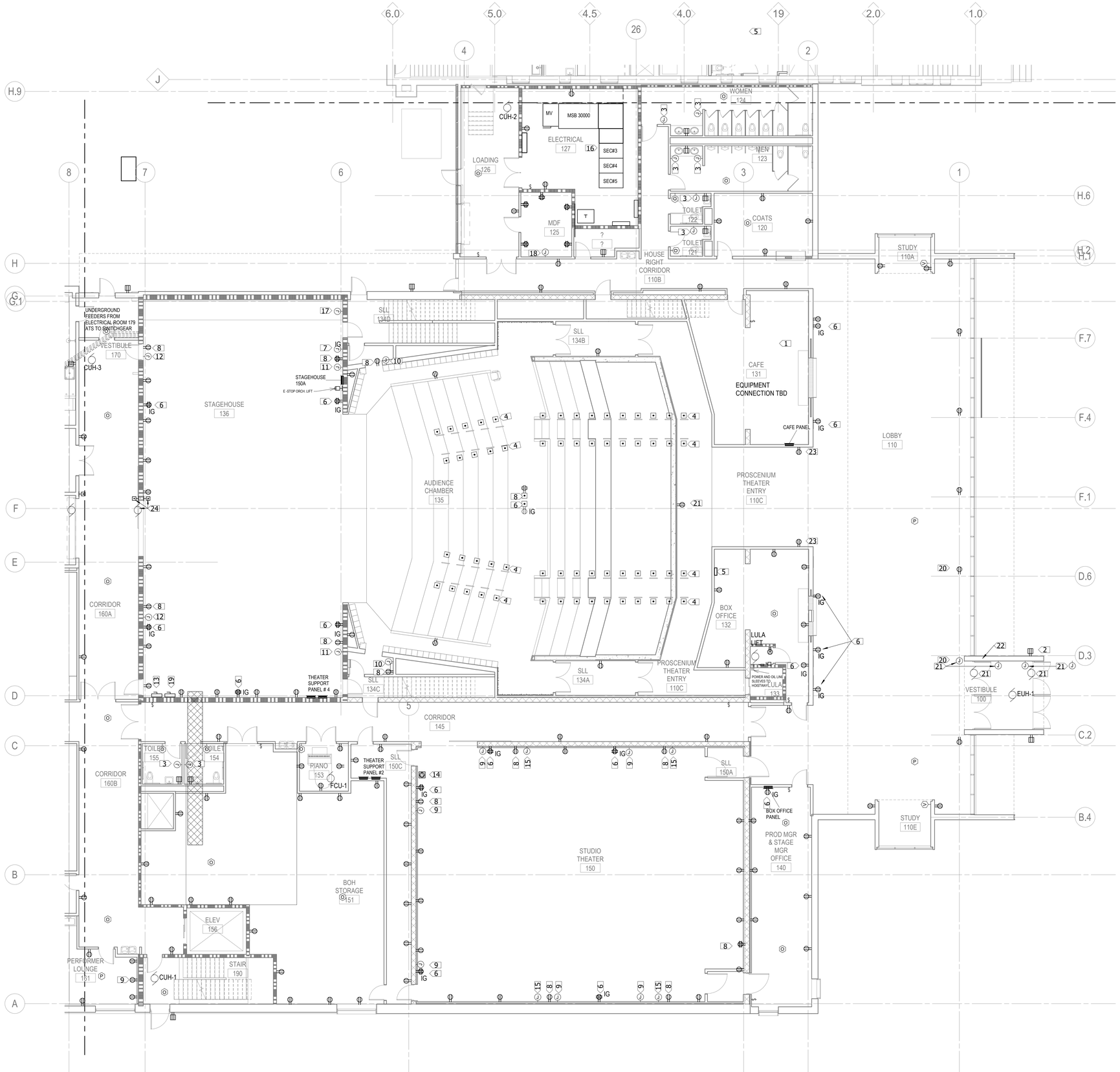


1 LEVEL ONE POWER PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. CAFE EQUIPMENT RECEPTACLE.
2. WEATHER PROOF GFI RECEPTACLE.
3. HAND DRYER PROVIDE DEDICATED 120V POWER FROM CIRCUIT INDICATED.
4. LOW VOLTAGE AISLE LIGHTING.
5. LOW VOLTAGE TRANSFORMER FOR AISLE LIGHTING.
6. RECEPTACLE TO BE MOUNTED IN AV BACK BOX
7. 4 CIRCUITS WITH ISOLATED GROUND 3) 120V 20A FOR AV RACK
8. RECEPTACLE TO BE MOUNTED IN TC BACK BOX
9. (2) SWITCHED 20 AMP CIRCUITS
10. (3) SWITCHED 20 AMP CIRCUITS
11. (4) DIMMED 20 AMP CIRCUITS / (2) SWITCHED 20 AMP CIRCUITS
12. (6) DIMMED 20 AMP CIRCUITS / (2) SWITCHED 20 AMP CIRCUITS
13. 400 AMP COMPANY SWITCH DISCONNECT
14. 200 AMP COMPANY SWITCHED RECEPTACLE
15. (1) SWITCHED 20 AMP CIRCUIT
16. CONTRACTOR SHALL COORDINATE CAST IN PLACE CONCRETE TRENCH INSTALLED AT INDICATED LOCATION, PROVIDE SHEET METAL COVER SHALL INSTALL FLUSH TO COVER TRENCH OPENING.
17. PROVIDE CONNECTION TO INDEX STRIP FIXTURES MOUNTED ON RIGGING.
18. PROVIDE (1) 208\120V, 30A CONNECTION TO TELECOMMUNUCATIONS RACK POWER DISTRIBUTIONLSTRIP.
19. 100 AMP COMPANY SWITCH DISCONNECT.
20. TYPICAL RECEPTACLE:
    CONTRACTOR TO MOUNT RECEPTACLE ON WEB OF COLUMNS. CONTRACTOR SHALL ENSURE CONDUIT BEND IS NOT INSTALLED WITHIN CONCRETE SLAB. RECEPTACLE JUNCTION BOX, FACEPLATE AND CONDUIT SHALL BE PAINTED TO MATCH COLUMN.
21. DOOR OPERATOR,PROVIDE 1/2" CONDUIT FROMDOOR OPERATOR TO EACH HANDICAP ACTUATOR.
22. PROVIDE PULLBOXES FOR ALL CONDUIT SERVING EQUIPMENT WITHIN VESTIBULE BEHIND ACCESS PANEL AT THIS LOCATION. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
23. CONTRACTOR SHALL INSTALL RECEPTACLE WITHIN BASE PLATE AT LOCATIONS INDICATE.
24. OVERHEAD COILING DOOR, PROVIDE 208 VOLT SINGLE PHASE POWER CONNECTION TO OVERHEAD COILING DOOR. PROVIDE 1/2" CONDUIT FROMCONTROL PANEL TO EACH PUSHBUTTON CONTROLLER.

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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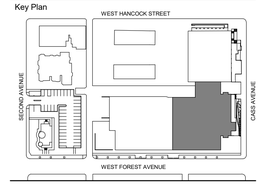
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## LEVEL ONE POWER PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

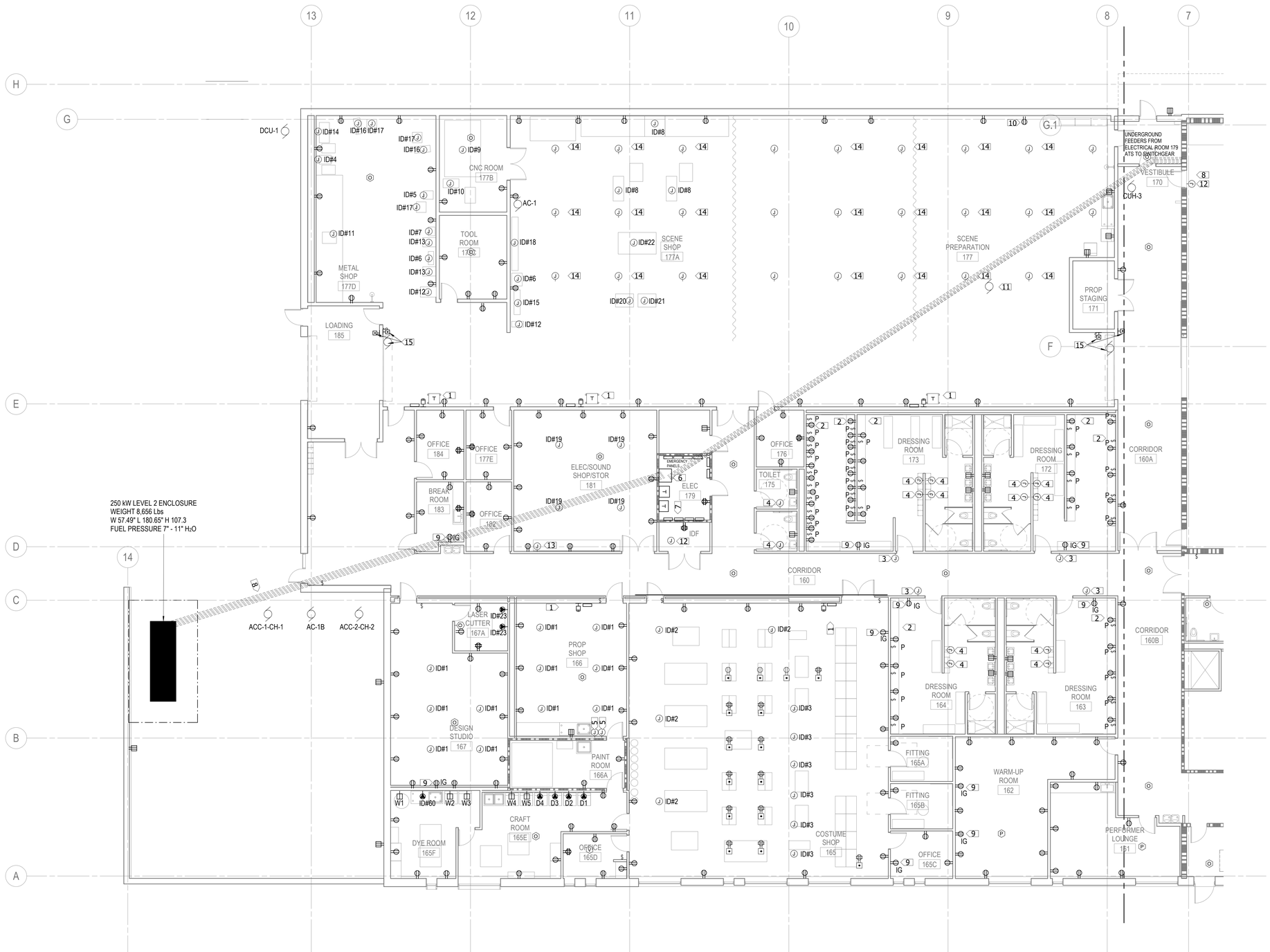
Drawing No:

PLAN NORTH TRUE NORTH

# E3.1B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL ONE POWER PLAN - SECTOR C
1/8" = 1'-0"

KEYNOTES:

1. TRANSFORMER SHALL BE CEILING MOUNTED
2. ALL DRESSING ROOM TABLE RECEPTACLE TO BE 36" AAF AND LIGHT FIXTURES TO BE 72" AAF BOTH WILL BE WIRED TO PILOT LIGHT OUTSIDE OF THE ROOMS
3. DRESSING TABLE RECEPTACLE & LIGHT FIXTURE PILOT LIGHT
4. HAND DRYER PROVIDE DEDICATED 120V POWER FROM CIRCUIT INDICATED
5. EXPLOSION PROOF CONDUIT SEALING FITTINGS
6. EMERGENCY ATS
7. EMERGENCY DIST. PANEL 200A
8. UNDERGROUND FEEDERS RUNS FROM GENERATOR TO SWITCHGEAR
9. RECEPTACLE TO BE MOUNTED IN AV BACK BOX
10. RECEPTACLE TO BE MOUNTED INTC BACK BOX.
11. RIGGING MOTOR, PROVIDE 480V, 20A, 3 PHASE CONNECTION.
12. PROVIDE (1) 208\120V, 30A CONNECTION TO TELECOMMUNICATIONS RACK POWER DISTRIBUTION STRIP.
13. PROVIDE (2) 120V, 20A CIRCUITS FOR AV RACK SERVING THE SOUND SHOP.
14. CEILING MOUNT 120V RETRACT CORD REELS.
15. OVERHEAD COILING DOOR, PROVIDE 208 SINGLE PHASE POWER CONNECTION TO OVERHEAD COILING DOOR PROVIDE 1/2" CONDUIT FROM CONTROL PANEL TO EACH PUSHBUTTON CONTROLLER.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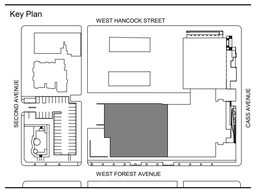
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
## LEVEL ONE POWER PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

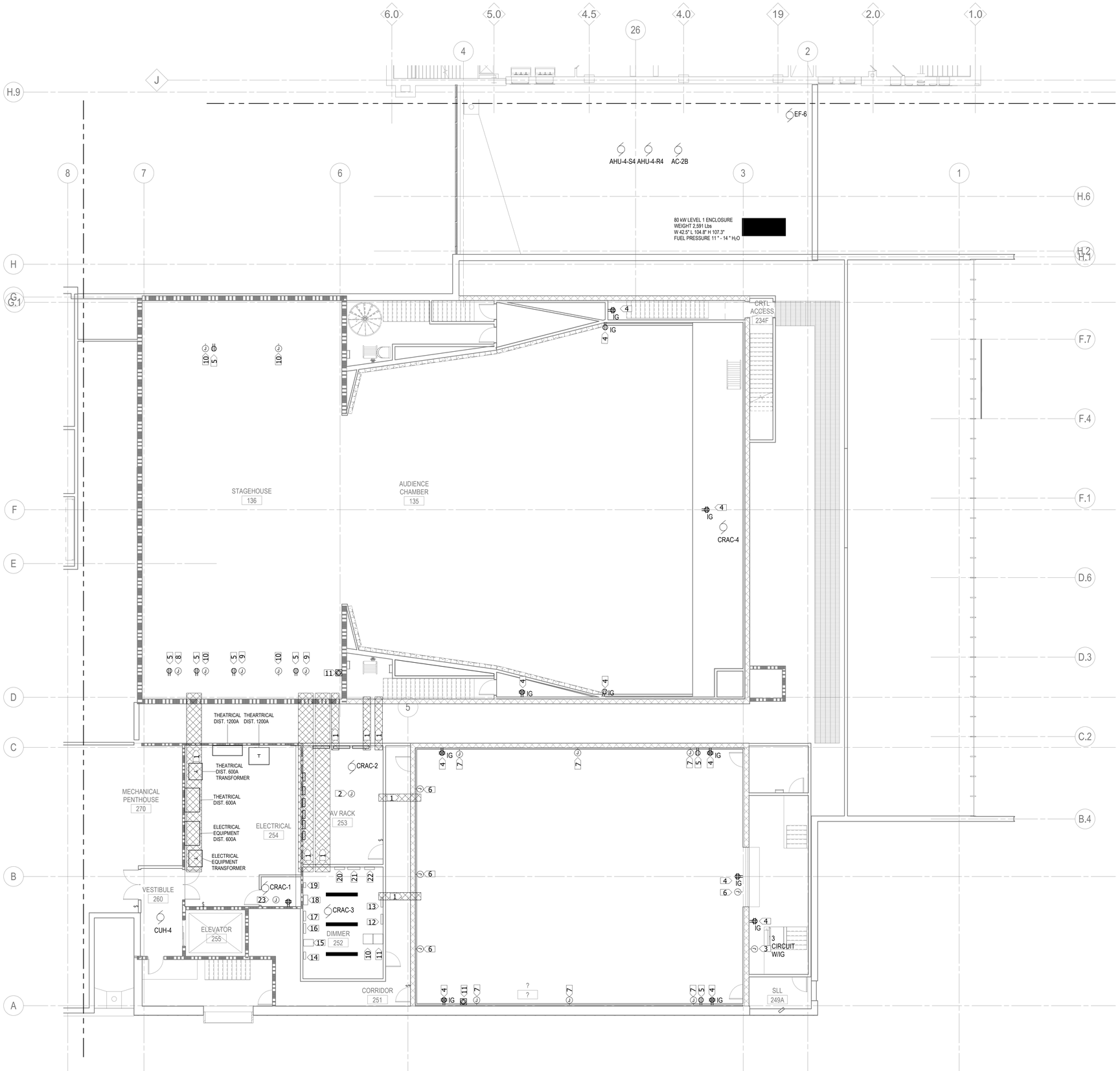
Drawing No:

PLAN NORTH TRUE NORTH

E3.1C

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL TWO POWER PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. CABLE RUNS
2. 4 CIRCUITS WITH ISOLATED GROUND 1) 120V 20A 3) 120V 30A FOR AV RACK
3. 3 CIRCUITS 3) 120V 20A FOR AV RACK RECEPTACLE TO BE MOUNTED IN AV BACK BOX
4. RECEPTACLE TO BE MOUNTED IN TC BACK BOX (2) SWITCHED 20 AMP CIRCUITS
5. (3) SWITCHED 20 AMP CIRCUITS
6. (6) SWITCHED 20 AMP CIRCUITS
7. (12) SWITCHED 20 AMP CIRCUITS
8. (6) DIMMED 20 AMP CIRCUITS / (3) SWITCHED 20 AMP CIRCUITS
9. 100 AMP COMPANY SWITCH DISCONNECT
10. CR - 1 THEATRICAL LIGHTING CONTROL RACK - HILBERRY THEATRE
11. CR - 2 THEATRICAL LIGHTING CONTROL RACK - STUDIO THEATRE
12. ETS - 1A EMERGENCY BYPASS DETECTION KIT AND DMX CONTROLLER - HILBERRY THEATRE
13. ETS - 2A EMERGENCY BYPASS DETECTION KIT AND DMX CONTROLLER - STUDIO THEATRE
14. ETS - 1 EMERGENCY LIGHTING TRANSFER SWITCH - HILBERRY THEATRE
15. DR - 1 THEATRICAL LIGHTING DIMMER RACK - HILBERRY THEATRE
16. TRP - 1A THEATRICAL LIGHTING CONTROLLED PANELBOARD - HILBERRY THEATRE
17. TRP - 1B THEATRICAL LIGHTING CONTROLLED PANELBOARD - HILBERRY THEATRE
18. TLD - 1 THEATRICAL LIGHTING DISTRIBUTION PANELBOARD
19. TLG - 1 THEATRICAL LIGHTING GENERAL PURPOSE PANELBOARD HILBERRY THEATRE
20. TLG - 2 THEATRICAL GENERAL PURPOSE PANELBOARD - STUDIO THEATRE
21. TRP - 2 THEATRICAL LIGHTING CONTROLLED PANELBOARD - STUDIO THEATRE
22. ETS - EMERGENCY LIGHTING TRANSFER SWITCH - STUDIO THEATRE
23. PROVIDE (1) 208/120V , 30A CONNECTION TO TELECOMMUNICATIONS RACK POWER DISTRIBUTION STRIP.

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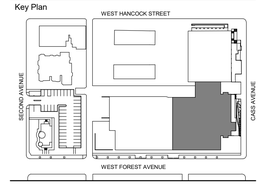
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO POWER PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

PLAN NORTH TRUE NORTH

# E3.2B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001001.rvt

Sheet Size: 30" x 42"
- Template Version

KEYNOTES:

1. RECEPTACLE TO BE MOUNTED IN TC BACK BOXES
2. (2) SWITCHED 20 AMP CIRCUITS

1 LEVEL TWO POWER PLAN - SECTOR C
1/8" = 1'-0"

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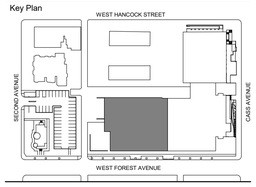
Key Plan

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Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
LEVEL TWO POWER PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
E3.2C

PLAN NORTH TRUE NORTH

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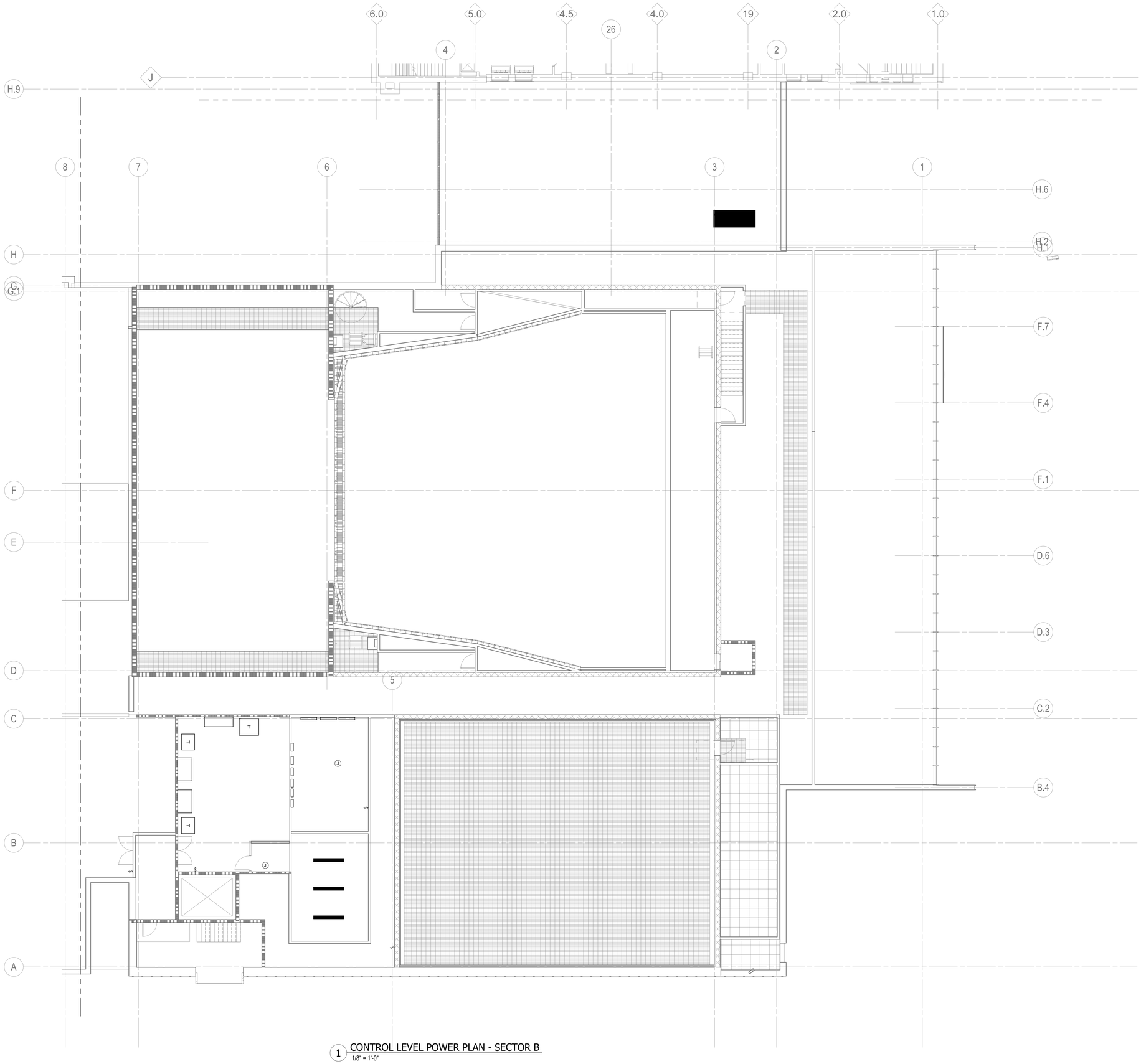
Sheet Size: 30" x 42"
- Template Version




1 CONTROL LEVEL POWER PLAN - SECTOR B
1/8" = 1'-0"

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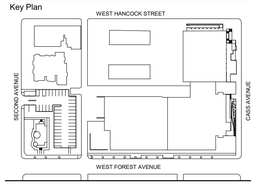
4743 Cass Ave., Detroit, MI 48202

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## CONTROL LEVEL POWER PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

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Signature:

Drawing No:

E3.3B

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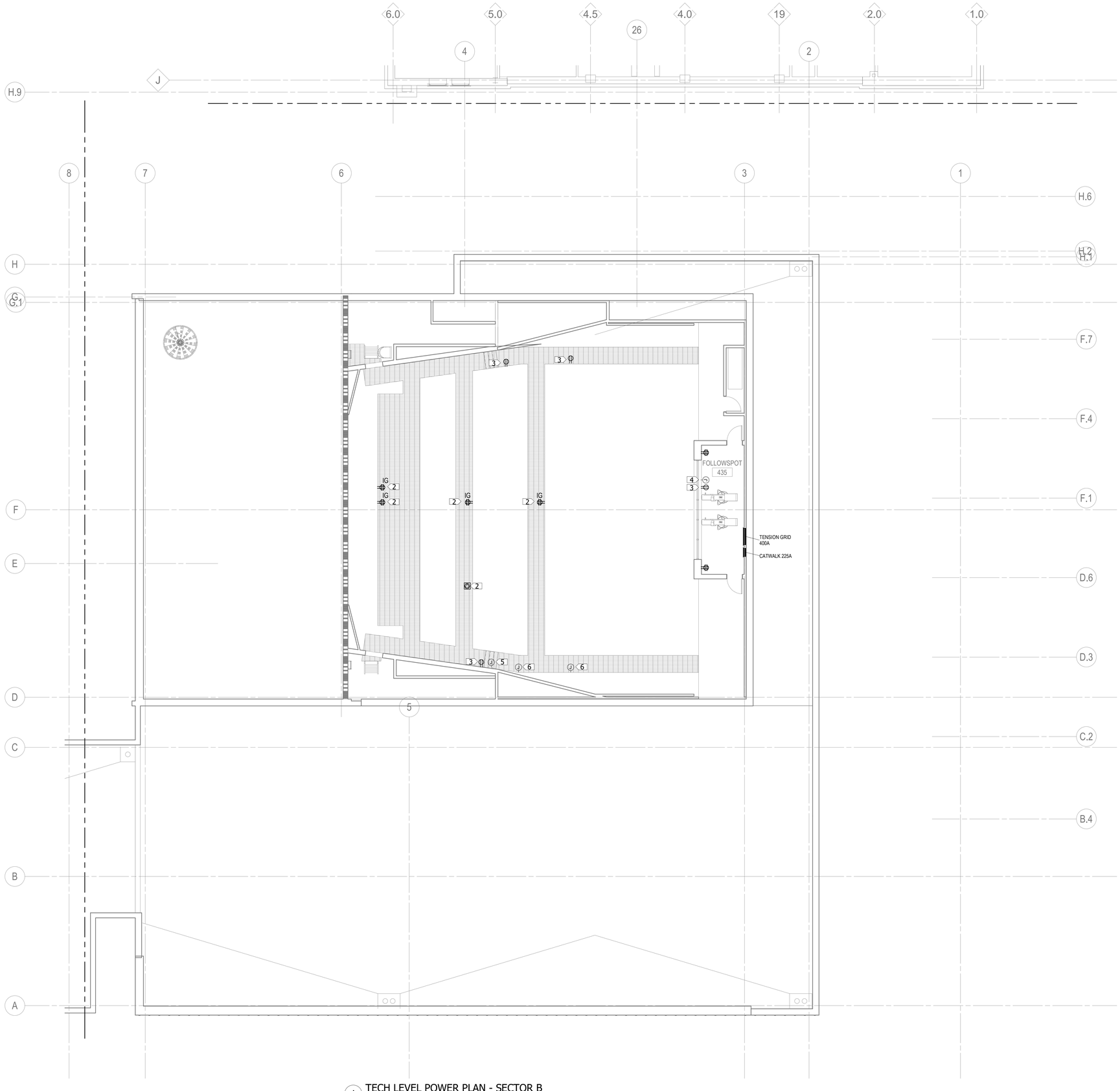


1 TECH LEVEL POWER PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. 3 CIRCUITS WITH ISOLATED GROUND 3) 120V 20A FOR AV RACK
2. RECEPTACLE TO BE MOUNTED IN AV BACK BOXES
3. RECEPTACLE TO BE MOUNTED IN TC BACK BOXES
4. (3) SWITCHED 20 AMP CIRCUITS
5. (6) DIMMED 20 AMP CIRCUITS / (3) SWITCHED 20 AMP CIRCUITS
6. (15) DIMMED 20 AMP CIRCUITS / (4) SWITCHED 20 AMP CIRCUITS
7. 100 AMP COMPANY SWITCH RECEPTACLE

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4743 Cass Ave., Detroit, MI 48202

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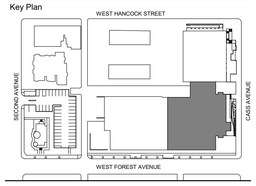


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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TECH LEVEL POWER PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

PLAN NORTH TRUE NORTH

E3.4B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
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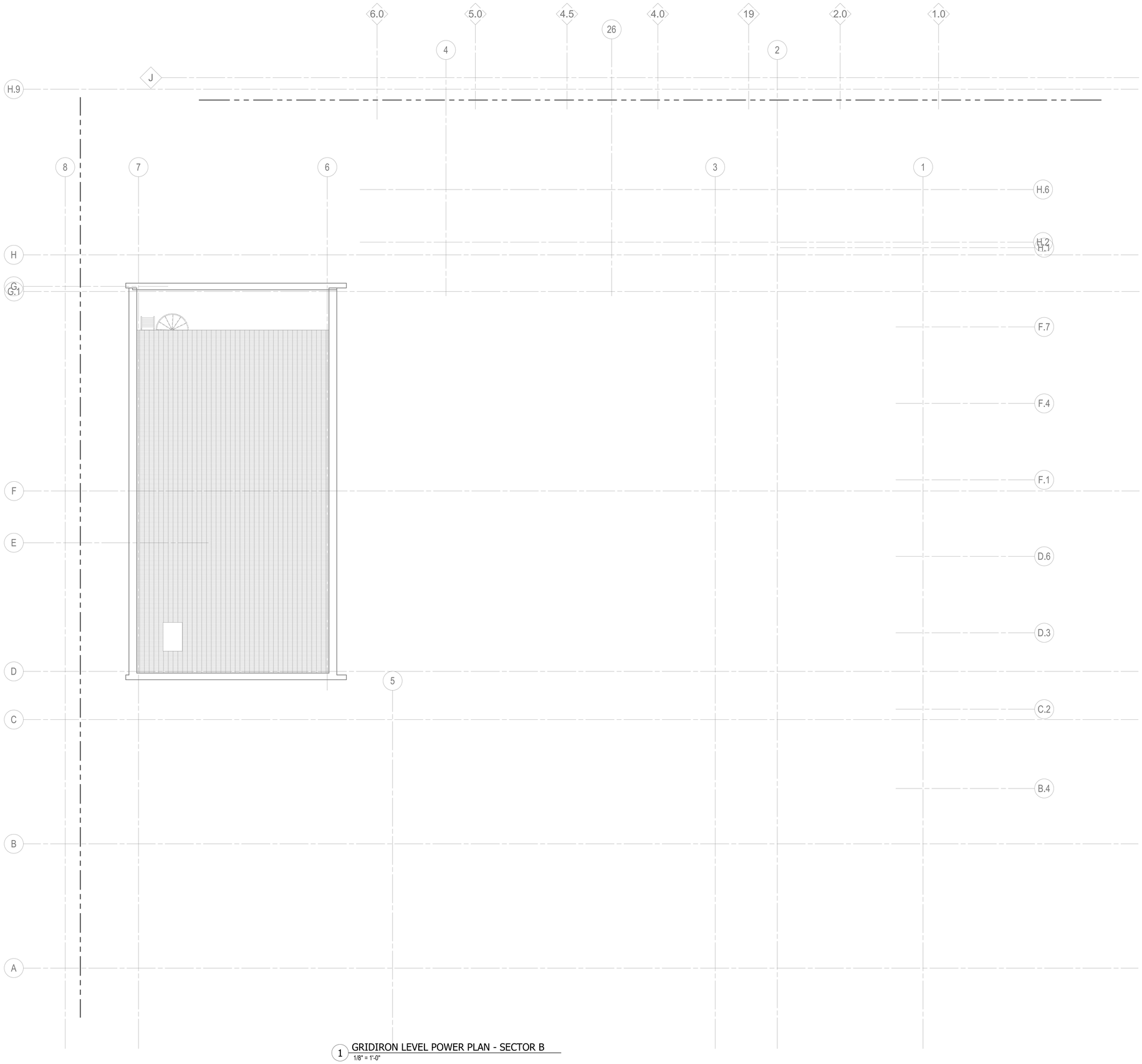


1 GRIDIRON LEVEL POWER PLAN - SECTOR B
1/8" = 1'-0"

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4743 Cass Ave., Detroit, MI 48202

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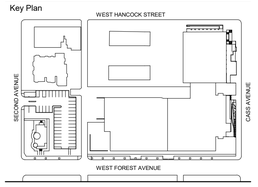


100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GRIDIRON LEVEL POWER PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

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Drawing No:

# E3.5B

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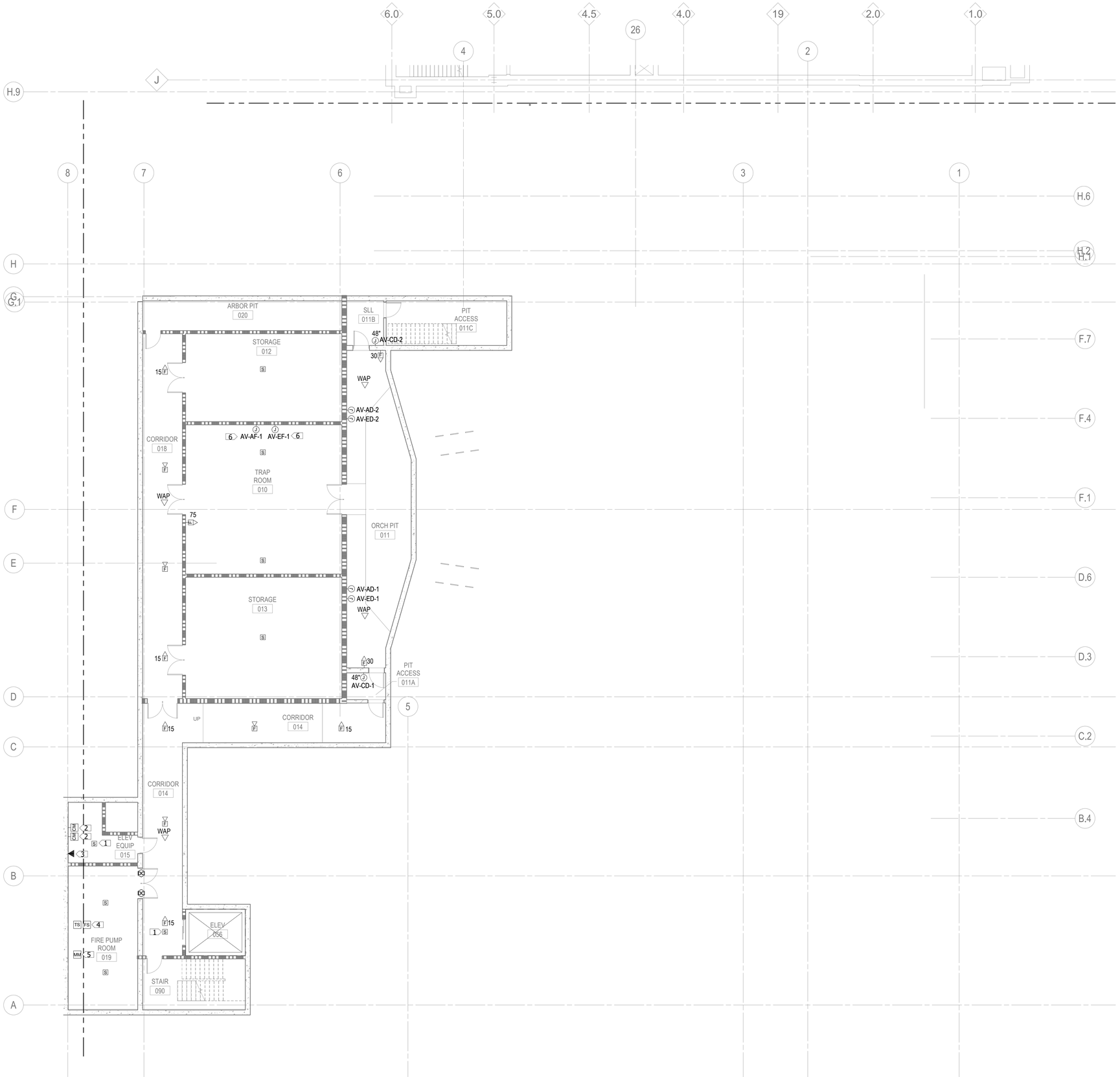
Sheet Size: 30" x 42"
- Template Version




1 LOWER LEVEL SYSTEMS PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. PROVIDE SMOKE DETECTOR FOR ELEVATOR RECALL FUNCTION. PROVIDE ALL REQUIRED PROGRAMMING AND CONTROL MODULES. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.
2. PROVIDE CONTROL RELAYS FOR ELEVATOR CONTROLLER RECALL INTERFACE WITH FIRE ALARM SYSTEM. PROVIDE ALL REQUIRED PROGRAMMING AND CONTROL MODULES. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.
3. PROVIDE VOICE OUTLET TO ELEVATOR CONTROL PANEL FOR A TELEPHONE IN EACH ELEVATOR CAB. COORDINATE SPECIFIC CONNECTION REQUIREMENTS WITH ELEVATOR CONTRACTOR.
4. FIRE-PROTECTION TAMPER AND FLOW SWITCHES PROVIDED BY DIVISION 21 TO SERVE FIRE PUMP. PROVIDE ALL REQUIRED PROGRAMMING AND CONTROL MODULES. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.
5. PROVIDE ALL REQUIRED PROGRAMMING AND MODULES FOR FIRE PUMP CONTROLLER STATUS MONITORING. FIRE PUMP AND CONTROLLER PROVIDED BY FIRE PROTECTION CONTRACTOR. COORDINATE WITH SUPPLIER FOR EXACT INTERFACE REQUIREMENTS.
6. DEVICE TO BE SURFACE MOUNTED ON WALL.

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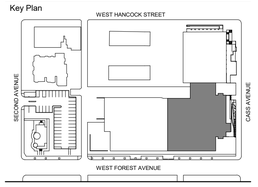
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## LOWER LEVEL SYSTEMS PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

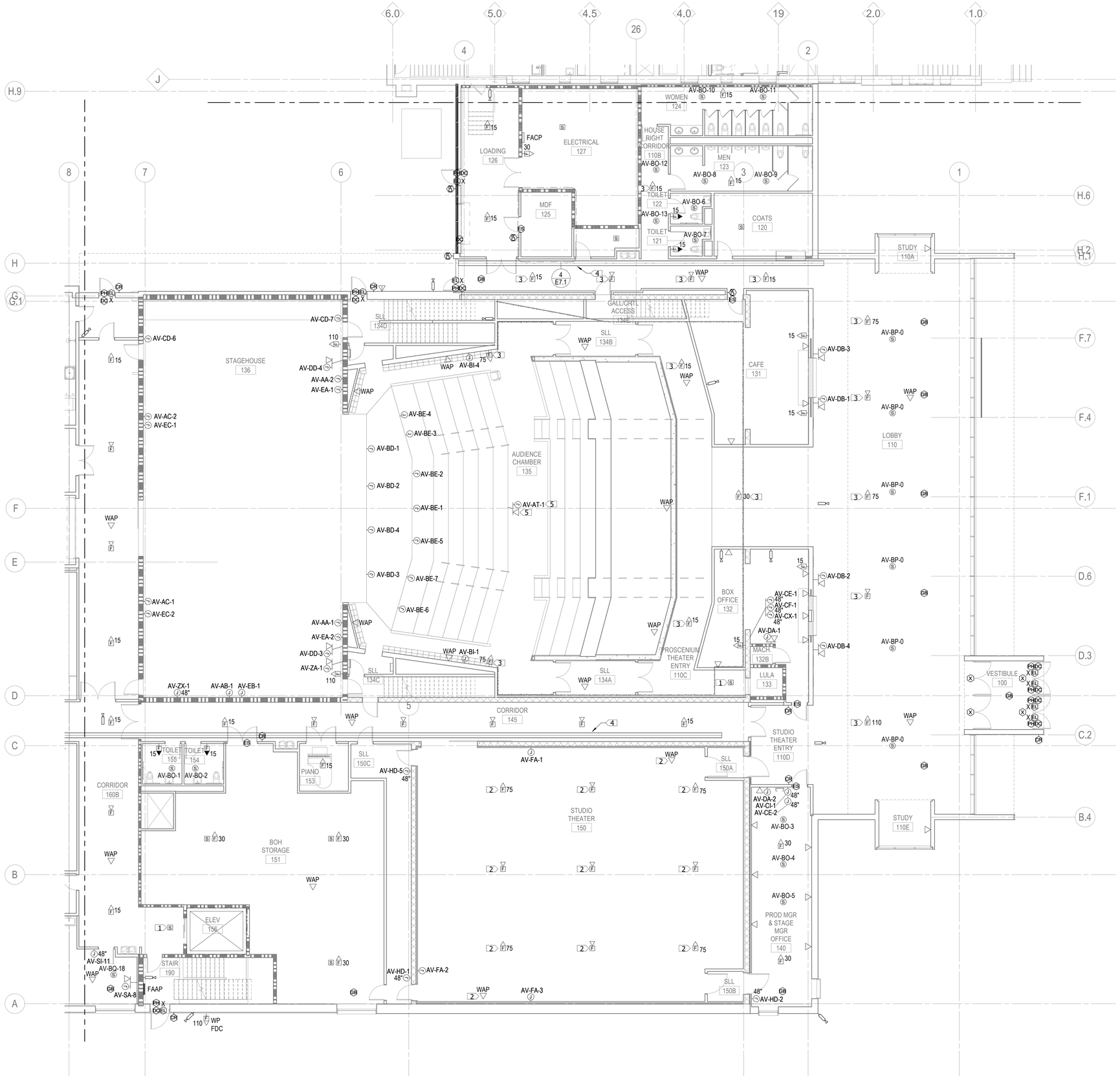
Drawing No:

PLAN NORTH TRUE NORTH

# E4.0B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL ONE SYSTEMS PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. PROVIDE SMOKE DETECTOR FOR ELEVATOR RECALL FUNCTION. PROVIDE ALL REQUIRED PROGRAMMING AND CONTROL MODULES. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.
2. MOUNT BELOW TENSION GRID.
3. PROVIDE CONCEALABLE FIRE ALARM DEVICE. FINISH COLOR SHALL BE PROVIDED BY THE ARCHITECT.
4. PROVIDE 12"X4" WIRE MESH STYLE CABLE TRAY MOUNTED AT 12' AFF.
5. DEVICE TO BE FLUSH MOUNTED IN FLOOR. REFER TO AV CONSULTANT DRAWINGS FOR MORE INFORMATION.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|---|---|
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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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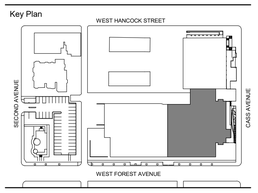
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## LEVEL ONE SYSTEMS PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

PLAN NORTH TRUE NORTH

# E4.1B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
: Template Version

KEYNOTES:

1. PROVIDE SMOKE DETECTOR FOR ELEVATOR RECALL FUNCTION. PROVIDE ALL REQUIRED PROGRAMMING AND CONTROL MODULES. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.
2. PROVIDE 12"X4" WIRE MESH STYLE CABLE TRAY MOUNTED AT 12' AFF.

1 LEVEL ONE SYSTEMS PLAN - SECTOR C
1/8" = 1'-0"

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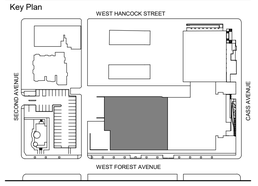
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
LEVEL ONE SYSTEMS PLAN - SECTOR C

Project Number: 3995-001-00
Drawn By: B.GUTIERREZ
Scale: 1/8" = 1'-0"
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

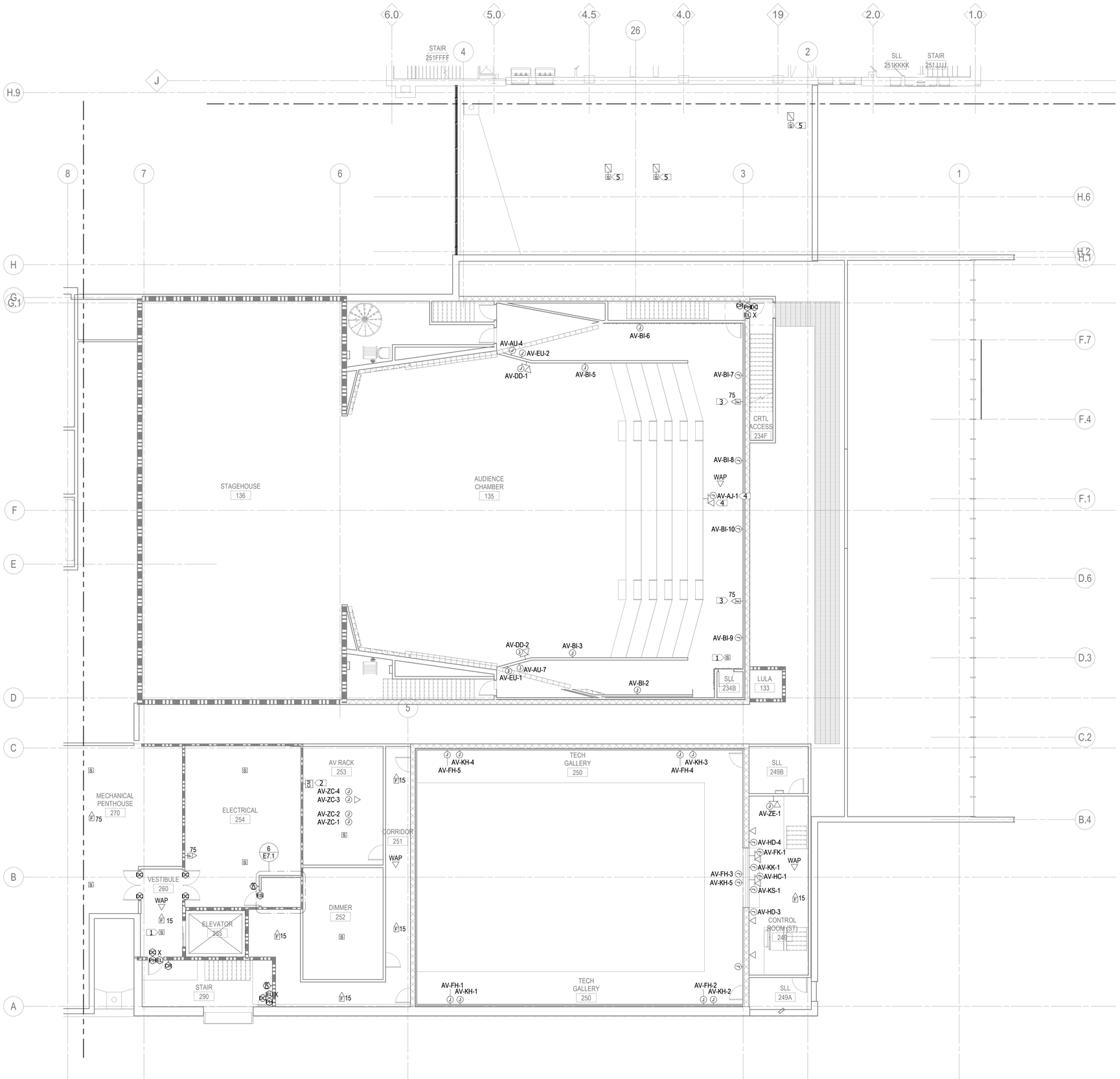
Signature:

Drawing No:
E4.1C

PLAN NORTH TRUE NORTH

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 LEVEL TWO SYSTEMS PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. PROVIDE SMOKE DETECTOR FOR ELEVATOR RECALL FUNCTION. PROVIDE ALL REQUIRED PROGRAMMING AND CONTROL MODULES. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.
2. PROVIDE FIRE ALARM CONTROL MODULE TO MUTE AUDIO SYSTEM UPON FIRE ALARM SYSTEM ACTIVATION. PROVIDE ALL REQUIRED PROGRAMMING AND CONTROL MODULES. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.
3. PROVIDE CONCEALABLE FIRE ALARM DEVICE. FINISH COLOR SHALL BE PROVIDED BY THE ARCHITECT.
4. DEVICE TO BE FLUSH MOUNTED IN FLOOR. REFER TO AV CONSULTANT DRAWINGS FOR MORE INFORMATION.
5. DUCT SMOKE DETECTOR FOR MECHANICAL UNIT SHUTDOWN FUNCTION. PROVIDE ALL REQUIRED MODULES AND PROGRAMMING. REFER TO SPECIFICATION SECTION 283111 FOR MORE INFORMATION.

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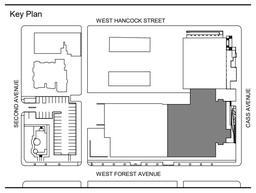
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## LEVEL TWO SYSTEMS PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

PLAN NORTH TRUE NORTH

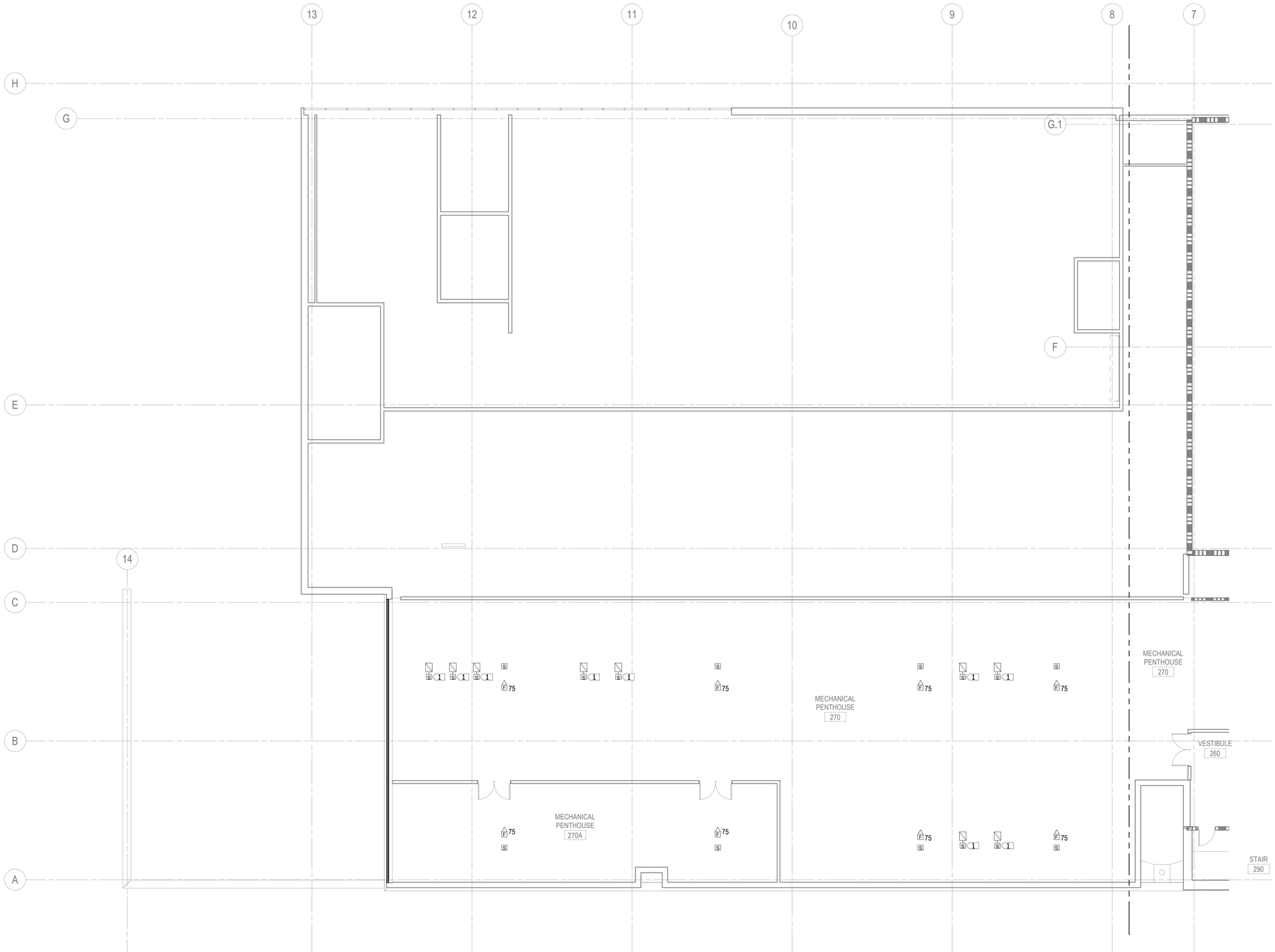
# E4.2B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

KEYNOTES:

1. DUCT SMOKE DETECTOR FOR MECHANICAL UNIT SHUTDOWN FUNCTION. PROVIDE ALL REQUIRED MODULES AND PROGRAMMING. REFER TO SPECIFICATION SECTION 283111 FOR MORE INFORMATION.




1 LEVEL TWO SYSTEMS PLAN - SECTOR C
1/8" = 1'-0"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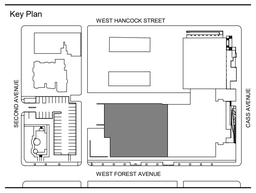
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


4743 Cass Ave., Detroit, MI 48202

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LEVEL TWO SYSTEMS PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

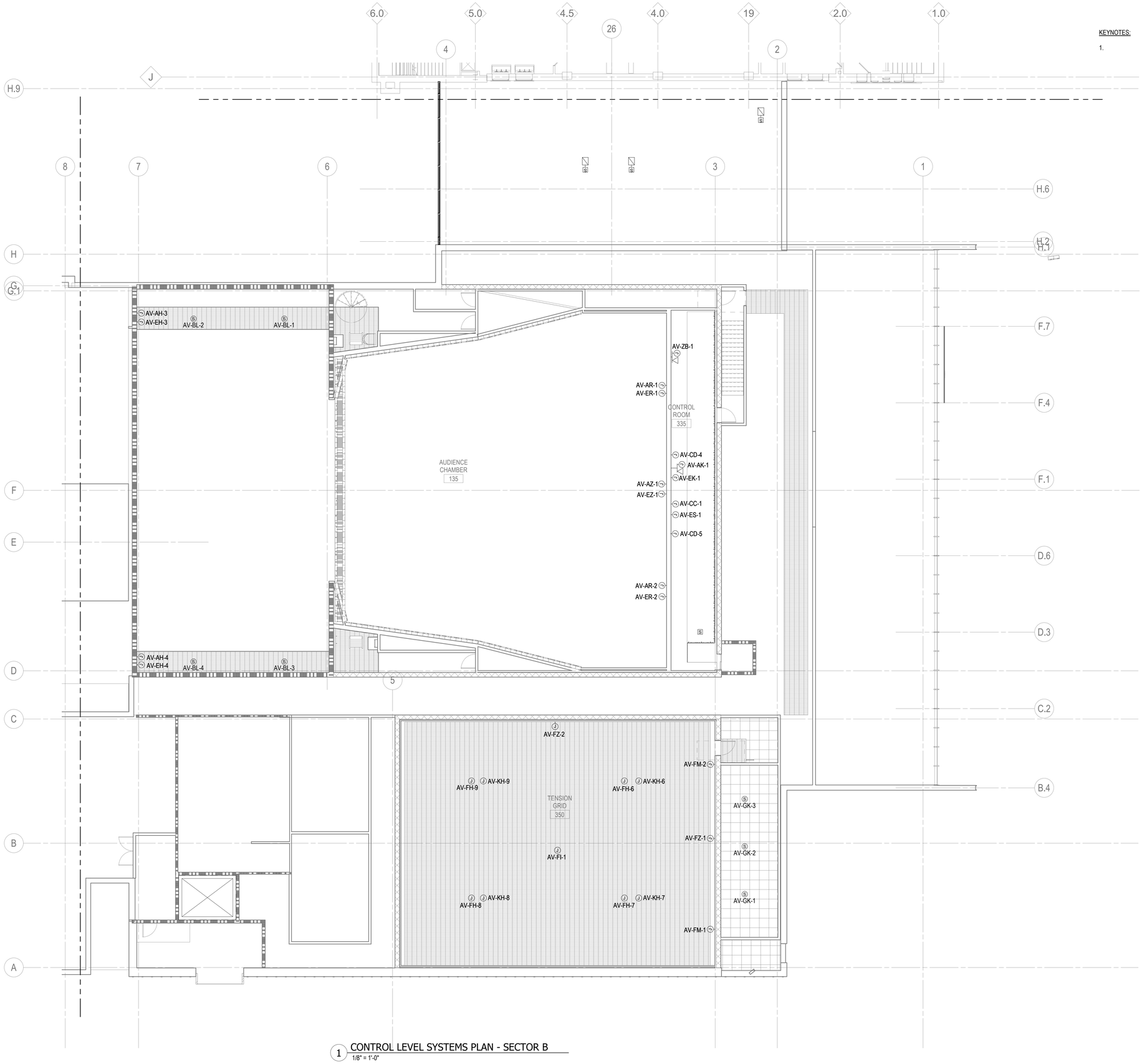
Drawing No:

PLAN NORTH TRUE NORTH

E4.2C

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 CONTROL LEVEL SYSTEMS PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1.

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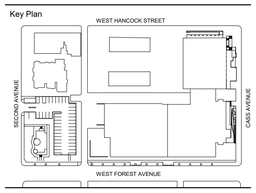
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## CONTROL LEVEL SYSTEMS PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

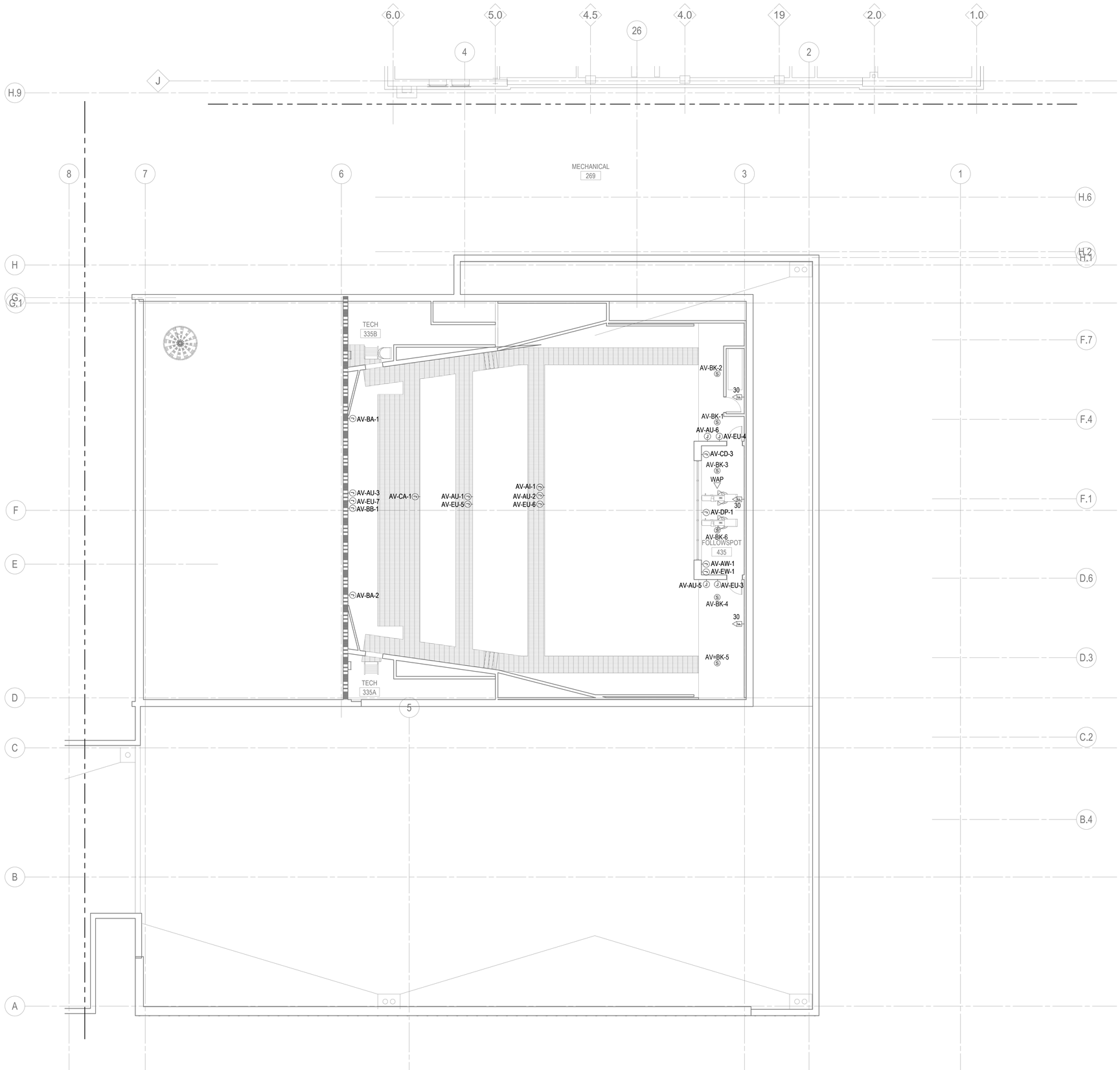
Signature:

Drawing No:

E4.3B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




1 TECH LEVEL SYSTEMS PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1.

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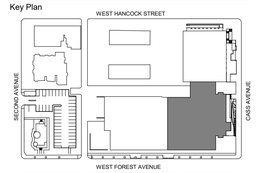
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TECH LEVEL SYSTEMS PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

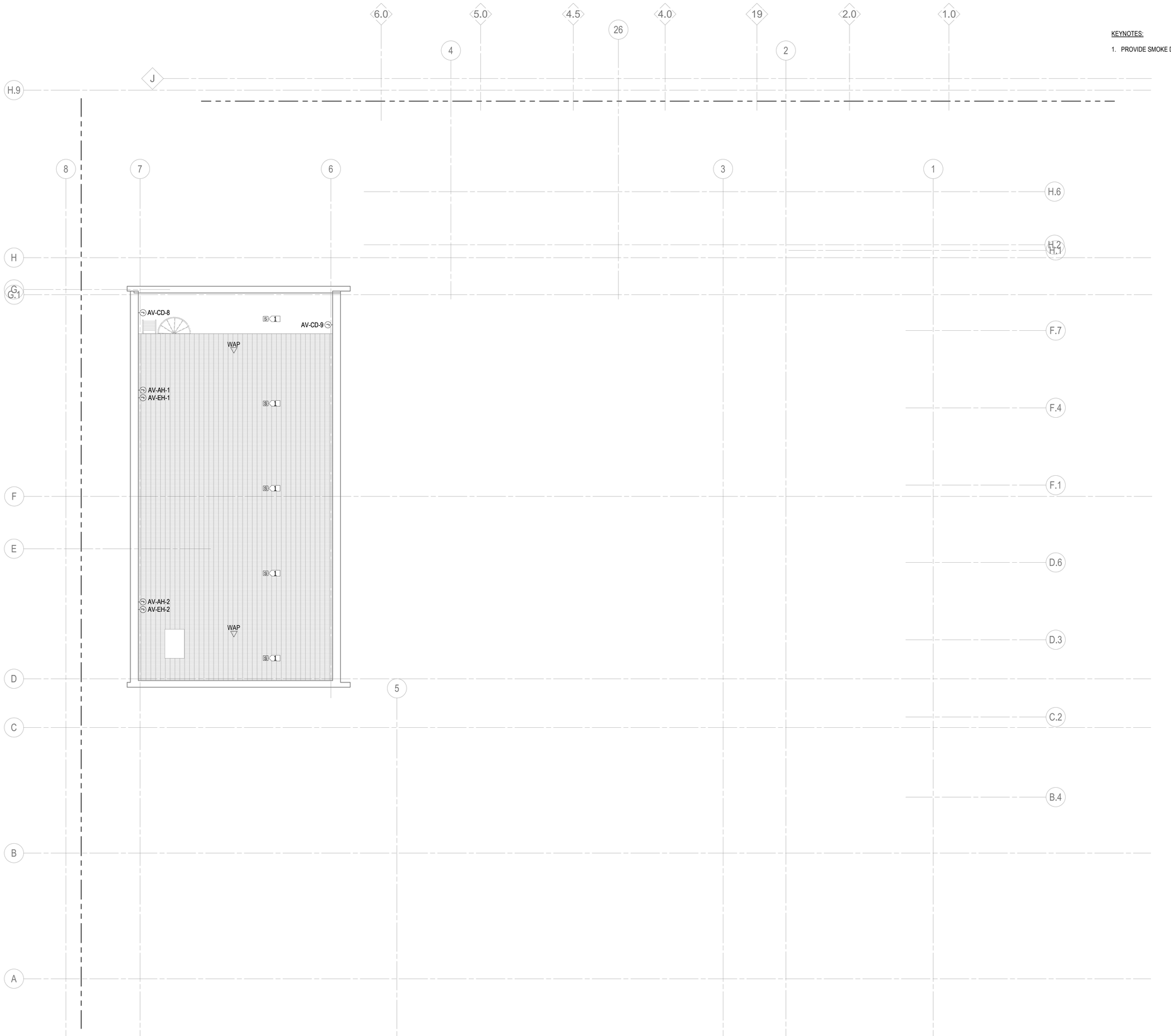
Drawing No:

PLAN NORTH TRUE NORTH

E4.4B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001/01.rvt

Sheet Size: 30" x 42"
- Template Version




1 GRIDIRON LEVEL SYSTEMS PLAN - SECTOR B
1/8" = 1'-0"

KEYNOTES:

1. PROVIDE SMOKE DETECTOR FOR DEPLOYMENT OF FIRE CURTAIN.

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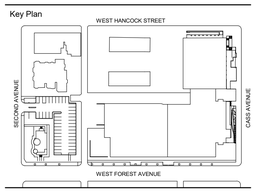
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## GRIDIRON LEVEL SYSTEMS PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# E4.5B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

## BOH LUMINAIRE SCHEDULE

AUTHOR:CMS

| TYPE | DESCRIPTION | MOUNTING | LENS/REFLECTOR | VOLTAGE | LAMP/LUMENS | BALLAST/POWER SUPPLY | WATTS | MANUFACTURER | CATALOG NUMBER | EQUAL MANUFACTURERS | NOTES | REVISION HISTORY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B1 | 2' VANITY LIGHT, HORIZONTAL ORIENTATION | CENTERED 3" ABOVE MIRROR | CLOSED ENDCAPS, FROSTED GLASS RECTANGULAR DIFFUSER, MINI JUNCTION BOX | 277 V | 1600 LM LED 830 | SWITCHED | 17 VA | EUREKA | STROKE 3542-24 LED.17 30 277 FRO WHE 3980 | VISA WAND, SONNEMAN SLIM OR APPROVED EQUAL | | |
| B2 | CONTINOUS DRESSING ROOM MIRROR LIGHT, HORIZONTAL ORIENTATION | CENTERED 3" ABOVE MIRROR | END TO END MOUNTING, FROSTED ACRYLIC DIFFUSER | 277 V | 750 LM/FT LED 830 | 0-10V DIMMING 1% | 50 VA | LUMENWERX | QUANW HLO LED 80 750 30 4/8 UNV D1 DRM W | OR APPROVED EQUAL | | |
| D1 | RECESSED LED DOWNLIGHT, 4" APERTURE | RECESSED CEILING | SEMI-SPECULAR CLEAR REFLECTOR WITH SELF-FLANGE TRIM | 277 V | 1500 LM LED 840 | 0-10V DIMMING | 23 VA | GOTHAM | EVO 40/15 4AR WD | OR APPROVED EQUAL | | |
| D3 | RECESSED LED SHOWER LIGHT, 6" APERTURE, WET LOCATION LISTED | RECESSED CEILING | FLAT ACRYLIC LENS, NON CONDUCTIVE WHITE TRIM | 277 V | 2000 LM LED 840 | 0-10V DIMMING | 23 VA | GOTHAM | EVO 40/20 6DFR | OR APPROVED EQUAL | | |
| EY1 | LED EMERGENCY BATTERY UNIT, SELF DIAGNOSTICS | SURFACE, CEILING OR WALL AT 9'-0" AFF | TWO HIGH- PERFORMANCE LED LAMP HEAD, WHITE THERMOPLASTIC HOUSING | 277 V | LED WITH UNIT | LEAD ACID BATTERY | 6 VA | LITHONIA | ELM6 LED W LP03VS SD | LIGHTALARM LCA, SURELITES SEL25 & SEL 50, DUAL-LITE EV | | |
| K5 | CATWALK BLUE STEP LIGHT | RAILING AT 8" AFF | CUTOFF LOUVER | 120 V | BLUE LED | 0-10V DIMMING 1% | 2 VA | COLE | SL157W BLU DIM BLK | OR APPROVED EQUAL | | |
| N1 | 4' LED INDUSTRIAL STRIP LIGHT 4000K | SURFACE WALL OR CHAIN HUNG | ACRYLIC DIFFUSE LENS | 277 V | 5000 LM LED 840 | 0-10V DIMMING | 42 VA | LITHONIA | Z1LD L48 SMR 5000LM FST MVOLT 40K 80CRI | OR APPROVED EQUAL | | |
| N2 | 4' LED HIGHBAY STRIP LIGHT | CHAIN HUNG AT 18'-0" AFF | ACRYLIC DIFFUSE LENS | 277 V | 7000 LM LED 830 | 0-10V DIMMING | 58 VA | DAYBRITE | FSI 4 70L 830 UNV DIM | OR APPROVED EQUAL | | |
| N3 | 4' LED THEATER WORK LIGHT | SURFACE WALL OR CHAIN HUNG | BLACK HOUSING | 120 V | 4000 LM LED 830 | 0-10V DIMMING 1% | 31 VA | DAYBRITE | FSI 4 40L 835 UNV DIM BK | OR APPROVED EQUAL | | |
| N4 | 4' LED INDUSTRIAL STRIP LIGHT 3000K | SURFACE OR CHAIN HUNG AT 12'-0" AFF | ACRYLIC DIFFUSE LENS | 277 V | 5000 LM LED 830 | 0-10V DIMMING | 42 VA | LITHONIA | Z1LD L48 SMR 5000LM FST MVOLT 30K 80CRI | OR APPROVED EQUAL | | |
| N5 | DOCK LIGHT WITH SWING ARM MOUNT | WALL AT 5'-0" AFF | INTEGRAL SWITCH AND FACE CAGE | 120 V | 800 LM LED 840 | SWITCHED | 16 VA | PHOENIX | DLAW 16LED 40 60 120 | OR APPROVED EQUAL | | |
| N6 | POLE MOUNTED JELLYJAR FOR CATWALK | SURFACE, ARCH DETAIL | FROSTED GLASS LENS WITH CAGE, INDOOR HOUSING | 120 V | 1500 LM LED 830 | SWITCHED | 11 VA | SPECTRUM | WJ1GV 15L 30 EX FJ1 WG1 CP104 MB | OR APPROVED EQUAL | | |
| N7 | VAPORPROOF WORK LIGHT | SURFACE AFF | GLASS LENS, CLASS I DIV I | 277 V | 5000 LM LED 830 | 0-10V DIMMING | 42 VA | BEGHELLI | ILLUMINA EXTREME | OR APPROVED EQUAL | | |
| N8 | HIGHBAY WITH GLASS LENS | CHAIN HUNG AT 14'-0" AFF | OLASS PROTECTIVE LENS | 277 V | 7000 LM LED 840 | 0-10V DIMMING | 58 VA | HUBBELL | HBLH 48L U A 3K W 070 CD TN ENGG | OR APPROVED EQUAL | | |
| R1 | 1x4 DIRECT/INDIRECT LED TROFFER | RECESSED CEILING, GRID | CENTER ACRYLIC DIFFUSER WITH WHITE REFLECTOR | 277 V | 4800 LM LED 840 | 0-10V DIMMING | 47 VA | LITHONIA | VTL4 48L ADP EZ1 LP835 | OR APPROVED EQUAL | | |
| T1 | ADUSTABLE TRACK HEAD WITH LINE VOLTAGE SURFACE TRACK | SURFACE CEILING | CYLINDER TRACK HEAD WITH INTEGRAL DRIVER, MEDIUM FLOOD DISTRIBUTION | 120 V | 1000 LM LED 830 | 0-10V DIMMING | 10 VA | CONTECH LIGHTING | CTL84C1M3D-B | OR APPROVED EQUAL | | |
| W1 | BUILDING MOUNTED EGRESS LIGHT | WALL - SEE ARCH ELEVATIONS | FULL CUTOFF | 277 V | 2000 LM LED 840 | SWITCHED | 26 VA | LUMARK | XTOR3A-N | OR APPROVED EQUAL | | |
| W2 | LOADING DOCK FLOODLIGHT | WALL - SEE ARCH ELEVATIONS | FULL CUTOFF, FORWARD THROW | 277 V | 8000 LM LED 840 | SWITCHED | 101 VA | REBELLE | 6004 101L 35K 277 T4 | OR APPROVED EQUAL | | |
| W3 | WALL MOUNTED STAIR LIGHT | 7'-0' ABOVE EACH LANDING | 180 DEG.DISTRIBUTION, CURVED FROSTED DIFFUSER, INTEGRAL OCC SENSOR | 277 V | 4000 LM LED 840 | 0-10V DIMMING | 42 VA | LITHONIA | FLAIR LED 40 MO 4 SAL TMW UNV SUR DM10 205 | OR APPROVED EQUAL | | |

GENERAL NOTES:

A. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION BEFORE ORDERING.
B. ALL LED LUMINAIRES MUST COMPLY WITH LM-79 AND LM-80 TESTING STANDARDS. L70 LIFE SHALL HAVE A MINIMUM OF 50,000 HOURS.
C. ANY PROPOSED SUBSTITUTIONS MUST BE SUBMITTED WITH PHOTOMETRIC CALCULATIONS AND CATALOG SHEETS WITH DATA TO PROVE EQUAL CHARACTERISTICS. PROVIDE PHYSICAL SAMPLES OF PROPOSED SUBSTITUTIONS UPON REQUEST.

NOTES:

1. UL LISTED FOR WET LOCATION.
2. COORDINATE MOUNTING AND LOCATION WITH EQUIPMENT IN ROOM.
3. PROVIDE WALL TO WALL INSTALLATION. FIELD VERIFY LENGTH PRIOR TO ORDERING.
4. COORDINATE CHEVRONS WITH PLANS PRIOR TO ORDERING
5. INCLUDE POWER SUPPLIES, MOUNTING HARDWARE, AND NECESSARY COMPONENTS TO PROVIDE A COMPLETE INSTALLATION. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR WIRE SIZES AND DISTANCE LIMITATIONS.

WSU Hilberry Gateway
WSU Project No. 189-178578
HAA Project No. 2016034.00

100% DD
28 JANUARY 2019

| TYPE | DESCRIPTION | MANUFACTURER | LAMP | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| LE50 | Recessed damp listed downlight at double set of main entry doors<br>• Extruded aluminum housing<br>• Overlap flange<br>• 55° beam spread<br>• Remote eldoLED 0-10V dimming driver | Gotham<br>Incito<br>ICO-30-10-2AR-LD-55D-277-UGZ<br><br>Alternate:<br>Lucifer<br>2RE-FD-2-[COLOR]-80X-13B-30-2-I-[CEILING]-01 | LED<br>3000K<br>80 CRI<br>960lm | 13W ea. | 277 | Hilberry Gateway entry | |
| LE70 | Recessed damp listed downlight<br>• Extruded aluminum housing<br>• 55° beam spread<br>• Integral 0-10V dimming driver<br>• IP 66 rated | Luminis<br>Oculus<br>OC950-RG-L1L40-R55-277-[COLOR]-K3-HL-SL | LED<br>3000K<br>80 CRI<br>4092lm | 40W ea. | 277 | Valade colonnade | |
| LE100 | Recessed exterior rated linear downlight<br>• 8"X8° beam spread<br>• UMPR-fixed mounting<br>• LOGRRD-radial louver<br>• PSX60-100:power supply box<br>• Remote 0-10V dimming driver<br>• IP 65 rated | Lumenpulse<br>LOGR RO-48-70FT-30K-8X8-DIM-UMPR-SI-CRC<br>Accessories: LOGRRD, PSX60-100 | LED<br>3000K<br>80 CRI<br>505lm lf. | 7.5W lf. | 24/277 | Hilberry Gateway entry perf metal scrim | |

| TYPE | DESCRIPTION | MANUFACTURER | LAMP | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| LE150 | Recessed exterior rated steplights<br>• Overlap flange<br>• Integral 0-10V dimming driver<br>• IP 65 rated<br>• 13" W x 5" H | Bega<br>33 058-K3-STANDARD TRIM FINISH BY ARCHITECT<br><br>Alternate:<br>Winona<br>STEP13-WL-12LONG-L-LST2A-WHT30K-MVOLT-DMD-[FINISH] | LED<br>3000K<br>80CRI<br>1100lm | 15W ea. | 277 | Hilberry Gateway entry | |
| LE300 | Surface mounted damp listed downlight<br>• Integral 0-10V dimming driver<br>• IP 65 rated<br>• 11-7/8" W x 4-3/8" H | Bega<br>24 374-K3-STANDARD TRIM FINISH BY ARCHITECT<br><br>Alternate:<br>Evergreen Lighting<br>GL-W-11-12W-[FINISH]-CFG-DIMMING DRIVER | LED<br>3000K<br>80CRI<br>1077lm | 15W ea. | 277 | Hilberry Gateway secondary exits | |
| LE400 | Handrail-exterior rated<br>• Extruded aluminum housing<br>• Half clear/half black acrylic lens<br>• Asymetrical 30° beam angle<br>• Architect to provide RAL for custom finish<br>• IP 65 rated<br>• 2" W x 1.18" H | Cole Ltg<br>A2219-LR-WSU-[FINISH] | LED<br>3000K<br>80CRI<br>205lm lf. | 2.5W lf. | 277 | Hilberry Gateway entry | |

| TYPE | DESCRIPTION | MANUFACTURER | LAMP | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| LE425 | Handrail-exterior rated<br>• Extruded aluminum housing<br>• Half clear/half black acrylic lens<br>• Asymetrical 30° beam angle<br>• Matte black finish<br>• Architect to confirm standard finish<br>• IP 65 rated<br>• 2" W x 1.18" H | Cole Ltg<br>A2219-LR-WSU | LED<br>3000K<br>80CRI<br>205lm lf. | 2.5W lf. | 277 | Valade main entry | |
| LE450 | Bollards-exterior rated<br>• Extruded aluminum housing<br>• Borosilicate glass lens<br>• Integral 0-10V dimming driver<br>• IP65 rated<br>• 6-1/2" Dia x 39-3/8" H | Bega<br>77 753-K3-STANDARD FINISH BY ARCHITECT<br>ANCHOR BOLT: 79817<br><br>Alternate:<br>Ligman<br>ULW-10874-27W-W30-[FINISH]-120/277V-DIM | LED<br>3000K<br>80CRI<br>411lm | 10W ea. | 277 | Hilberry Gateway entry | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L1 | Decorative pendant | Allow $800 Contractor Net per pendant.<br>Allowance does not include contractor markup, taxes or shipping. | LED<br>3000K | 10W ea. | 120v | Hilberry Gateway lobby | |
| L20 | Decorative pendant<br>• White opal diffusers top and bottom<br>• 30" dia x 4" tall<br>• Standard remoted 0-10v dimming driver<br>• Standard finish to be selected by architect<br>• Locate bottom of pendant 10' A.F.F. | LightArt<br>ONE<br>6-07-5004-K-[standard finish by Arch]<br><br>Alternate fixtures:<br>LightArt<br>Slim Ring<br>LA2-Large (44" dia.)- [standard finish by Arch]-White canopy and dress plate, white power cord<br><br>Delray Lighting Inc.<br>Dos Circular direct/indirect pendant<br>UDC4-S-W30-SR | LED<br>3000K<br>81 CRI<br>6063lm | 82W ea. | 277 | Valade lobby | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L20A | Decorative pendant<br>• White opal diffusers top and bottom<br>• 44" dia x 4" tall<br>• Standard 0-10v dimming driver integral to canopy<br>• Standard finish to be selected by architect<br>• Stairs: locate bottom of pendant 22'-6" A.F.F. of 1st floor<br>• BOH lobby: locate bottom of pendant 8' AFF. | LightArt<br>ONE<br>6-07-5005-K-[finish by Arch]<br><br>Alternate fixtures:<br>LightArt<br>Slim Ring<br>LA2-X-Large (57.5"dia.)-[standard finish by Arch]-White canopy and dress plate, white power cord<br><br>Delray Lighting Inc.<br>Dos Circular direct/indirect pendant<br>UDC5-S-W30-SR | LED<br>3000K<br>81 CRI<br>9310lm | 116W ea. | 277 | Valade lobby stairs second level | |
| L50 | Recessed downlight-2" dia<br>• DL-flanged aperture<br>• Remote 0-10v dimming driver | Gotham<br>Incito<br>ICO-30-10-2AR-LD-55D-MVOLT-UGz<br><br>Alternate Fixture:<br>Edison Price 2" dia.<br>W2-CLT-DL-L10H-DMV-30K-LP-PRS-OL+ CLT-LENS-60-70 | LED<br>3000K<br>80 CRI<br>1000lm | 13W ea. | 120/277 | Hilberry Gateway vestibule & lobby, Toilet rms, Proscenium SLL, Valade vomitories | |
| L51 | Recessed downlight-1" dia<br>• Spackle flange<br>• Remote 0-10v dimming driver | CSL<br>1" Eco<br>Housing: EDLM-NC-30-4-LPD<br>Optics: EDLM-80-OPT1C<br><br>Alternate Fixture:<br>Lightolier 1.75" dia.<br>Frame kit:C2L-04-DLFT-30K-47-R-UZ10V<br>Reflector: C2L-DL-CCD-P | LED<br>3000K<br>90 CRI<br>800lm | 9W ea. | 120/277 | Proscenium & Studio entries, Studio SLL, Proscenium house & balcony SLL | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L52 | Recessed adjustable-2" dia<br>• Flanged<br>• Remote 0-10v dimming driver | Gotham<br>Incito<br>ICO-30-10-2AR-LD-55D-277-UGZ<br><br>Alternate Fixture:<br>Edison Price 2" dia.<br>W2-CLT-AA-36D-L10H-DMV-30K-AP-PRS-TF | LED<br>3000K<br>80 CRI<br>1000lm | 13 W ea. | 120/277 | Proscenium donor wall, Hilberry lobby | |
| L53 | Recessed 2x4 troffer<br>• T9: Mounted in 9/16" T-bar<br>• Integral 0-10v dimming driver | Eaton<br>Bridge<br>BRG-WS-2-L30-LD2-UNV-24-T1-STD<br><br>Alternate Fixture:<br>Lithonia Lighting<br>2ALL4-40L-MVOLT-EZ1-LP830- | LED<br>3000K<br>>85 CRI<br>4000lm | 40W | 120/277 | Hilberry theatre coat check, Box office, Manager's office, Performers lounge | |
| L54 | Recessed gasketed 2x4 troffer<br>• Mounted in grid ceiling<br>• Integral 0-10v dimming driver | Philips<br>Day-Brite<br>2-T-G-54L-830-4-FS-02F-UNV-DIM-1W<br><br>Alternate Fixture:<br>Lithonia Lighting<br>2WRTL-G-L48-3000LM-OAW-AFL-MVOLT-EZ1-30K-80CRI-FPA | LED<br>3000K<br>80 CRI<br>5400lm | 49.3W | 120/277 | Café | |

HamiltonAnderson
architecture landscape architecture urban design

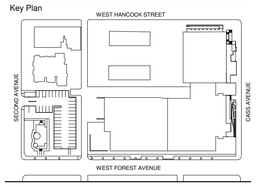
HGA

WAYNE STATE UNIVERSITY


| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202


Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# LUMINAIRE SCHEDULES

Project Number: 3995-001-00

Drawn By: CSTOCKWELL

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# E5.0A

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L100 | Recessed wallwash<br>• Extruded aluminum housing<br>• Spackle flange<br>• Integral 0-10v dimming driver<br>• Continuous length with articulated corners<br>• Standard black finish | Lumenwerx<br>VIA3RPAT-GRO-LED-80-500-30-20'4", 90°RT,6'7.3",LT165°, 19'6", LT105°, 9'10"-UNV-D1-1-DMF-DMF-BL-FWC<br><br>Alternate Fixture:<br>Pinnacle Lighting<br>Edge<br>EV3WG-30-20'4"-SO90-6'7"-M165-19'6"-M105°-9'10"-SF-U-OL1-1-0-BL | LED<br>3000K<br>80 CRI<br>500lm lf. | 5W lf. | 120/277 | Proscenium theatre vomitories | |
| L100A | Same as L100 except<br>• Length | Lumenwerx<br>VIA3RPAT-GRO-LED-80-75-30-20'-4", 90°LT, 11'-3", RT165°, 14'-1", LT75°, 10'4"<br><br>Alternate Fixture:<br>Pinnacle Lighting<br>Edge<br>EV3WG-30-20'4"-SI90-11'3"-M165-14'1"-M75°-10'4" -SF-U-OL1-1-0-BL | LED<br>3000K<br>80 CRI<br>500lm lf. | 5W lf. | 120/277 | Proscenium theatre vomitories | |
| L100B | Same as L100 except:<br>• length | Lumenwerx<br>VIA3RPAT-GRO-LED-80-500-30-21'-5",<br><br>Alternate Fixture:<br>Pinnacle Lighting<br>Edge<br>EV3WG-30-20'4"- SF-U-OL1-1-0-BL | LED<br>3000K<br>80 CRI<br>500lm lf. | 5W lf. | 120/277 | Proscenium theatre vomitories | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L101 | Recessed lensed linear downlight<br>• Extruded aluminum housing<br>• Overlap flange<br>• Integral 0-10v dimming driver<br>• Standard white finish<br>• 2'-8" length | Lumenwerx<br>VIA4RR-HLO-LED-80-1000-30-2FT-8IN-277-D1-1-DTR-W<br><br>Alternate Fixture:<br>Pinnacle Lighting<br>Edge E4<br>E4-A-30-2'8"-FL-U-OL1-1-0-W-PM | LED<br>3000K<br>80 CRI<br>1000lm lf. | 9W lf. | 120/277 | Hilberry Gateway single occ. toilet rm | |
| L101A | Same as L101 except:<br>• 3'-6" length | Lumenwerx<br>VIA4RR-HLO-LED-80-1000-30-3FT-6IN-277-D1-1-DTR-W<br><br>Alternate Fixture:<br>Pinnacle Lighting<br>Edge E4<br>E4-A-30-3'6"-FL-U-OL1-1-0-W-PM | LED<br>3000K<br>80 CRI<br>1000lm lf. | 9W lf. | 120/277 | Hilberry Gateway single occ. toilet rm | |
| L101B | Same as L101 except:<br>• 5'-5" length | Lumenwerx<br>VIA4RR-HLO-LED-80-1000-30-5FT-5IN-277-D1-1-DTR-W<br><br>Alternate Fixture:<br>Pinnacle Lighting<br>Edge E4<br>E4-A-30-5'5"-FL-U-OL1-1-0-W-PM | LED<br>3000K<br>80 CRI<br>1000lm lf. | 9W lf. | 120/277 | Hilberry Gateway toilet rms | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L101C | Same as L101 except:<br>• 21'-10" length | Lumenwerx<br>VIA4RR-HLO-LED-80-1000-30-21FT-10IN-277-D1-1-DTR-W<br><br>Alternate Fixture:<br>Pinnacle Lighting<br>Edge E4<br>E4-A-30-21'10"-FL-U-OL1-1-0-W-PM | LED<br>3000K<br>80 CRI<br>1000lm lf. | 9W lf. | 120/277 | Hilberry Gateway toilet rms | |
| L102 | Recessed lensed linear downlight-1" wide<br>• Remote 0-10v dimming driver<br>• 8'-0" length | Qtran<br>Housing: FLUR-BK-SS-DF-S1-96"<br>Tape: SW24/3-30-BW-BW-96"<br>Power supply: QTM-DC+CAP<br><br>Alternate Fixture:<br>Aion<br>Housing: MT101<br>Tape: 1524-30-LE<br>Power supply: QTM-DC+CAP-277/24-1X4+CK-S | LED<br>3000K<br>95 CRI<br>269lm lf. | 3W lf. | 120/277 | Hilberry Gateway café window | |
| L102A | Same as L102 except:<br>• 2'-6" length | Qtran<br>Housing: FLUR-BK-SS-DF-S1-30"<br>Tape: SW24/3-30-BW-BW-30"<br>Power supply: QTM-DC+CAP<br><br>Alternate Fixture:<br>Aion<br>Housing: MT101<br>Tape: 1524-30-LE-<br>Power supply: QTM-DC+CAP-277/24-1X4+CK-S | LED<br>3000K<br>95 CRI<br>269lm lf. | 3W lf. | 120/277 | Hilberry Gateway box office & coat check windows | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L103 | Aisle Ltg<br>• 6" length | Refer to specification 126100 Part 2 for fixture information | LED<br>3000K<br>83 CRI<br>130lm | .9w | 120 | Proscenium + Valade: end standard of fixed seating | |
| L150 | Recessed steplight-small aperture<br>• Overlap flange<br>• Remote dimming driver compatible with DMX dim signal | Winona<br>STEP12-SQU-M-LST1A-350Ma-WHT30K-MVOLT-DMD-BA-MOD DMX COMPATIBLE | LED<br>3000K<br>80+ CRI<br>70lm | 3W ea. | 120 | Proscenium theatre | |
| L151 | Recessed steplight-medium aperture<br>• Overlap flange<br>• Remote dimming driver compatible with DMX dim signal | Winona<br>STEP13-INT-6LONG-L-LST2A-WHT30K-MVOLT-DMD-BA-MOD DMX COMPATIBLE | LED<br>3000K<br>80+ CRI<br>195lm | 5W ea. | 120 | Proscenium theatre cross aisle & side balconies | |
| L152 | Recessed running light - blue lens<br>• Overlap flange<br>• Integral non-dim driver<br>• Locate center of fixture 24" AFF<br>• Black finish | Cole Ltg<br>G393-BLUE-BLK FINISH<br><br>Alternate Fixture:<br>Bega<br>22040-BLK-Mod BLUE LED-integral 120v 0-10v dimming driver | LED<br>Blue | 12W ea. | 120 | Studio theatre, Proscenium stage & corridor behind stage, Proscenium gallery access stairs | |
| L153 | Recessed steplight-louvered aperture<br>• Integral frosted glass diffuser<br>• HO - high output<br>• Integral 0-10v dimming driver<br>• Standard finish faceplate | Cole Ltg<br>L158W-HO-DIM<br><br>Alternate Fixture:<br>Bega<br>2217+K3 | LED<br>3000K<br>80 CRI<br>430lm | 8W ea. | 120 | Studio theater, Valade | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L300 | Surface mounted cylinder downlight-4" dia.<br>• Integral 0-10v 0% dimming<br>• Surface mounted to jbox<br>• Remote dimming driver compatible with DMX dim signal<br>•<br>• 80° cutoff cone<br>• Non-glow black housing | USAI<br>BeveLED Block<br>BLRD5-12C3-30KH-90-S-BL-CC-MOD DMX COMPATIBLE<br><br>Alternate Fixture:<br>Lindsley Ltg<br>Tule Surface Mount Pendant<br>LLTL.PN.SM-09-30-1300-BKS-60-honeycomb louver | LED<br>3000K<br>>90 CRI<br>800lm | 12W ea. | 120 | Studio theater perimeter at tension grid | |
| L301 | Yoke mounted cylinder downlight – 6.4" dia.<br>• Surface mounted to jbox<br>• Integral dimming driver compatible with DMX dim signal | Meteor<br>AS6<br>AS6-40-309-UNV-DMX-40-STD-BLK-YKM-DF<br><br>Alternate Fixture:<br>The Light Source<br>MP80B1Z-30RIK-.5PGCNOTRIM | LED<br>3000K<br>93 CRI<br>3640lm | 40W ea. | 120 | Studio theatre | |
| L301A | Same as L301 except:<br>• Wattage<br>• Beam angle | Meteor<br>AS6<br>AS6-100-309-UNV-DMX-60-STD-BLK-YKM-DF<br><br>Alternate Fixture:<br>The Light Source<br>MP80B1Z-30RIK-.5PGCNOTRIM | LED<br>3000K<br>93 CRI<br>8900lm | 100W ea. | 120 | Studio theatre | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L301B | Same as L301 except:<br>• Wattage<br>• Beam angle | Meteor<br>AS6<br>AS6-60-309-UNV-DMX-40-STD-BLK-YKM-DF<br><br>Alternate Fixture:<br>The Light Source<br>MP80B1Z-30RIK-.5PGCNOTRIM | LED<br>3000K<br>93 CRI<br>5780lm | 60W ea. | 120 | Proscenium theatre | |
| L302 | Surface mounted adjustable accent<br>• Locate bottom of fixture 8' AFF/stair<br>• Remote 0-10V dimming driver<br>• Architect to select standard finish | BK Lighting<br>Artistar<br>AR-LED-RM<br><br>Alternate Fixture:<br>HK/USA Lighting Group<br>ZXL08-NF-A-GSL-12V-6W-HK<br>LED-57°-3K-standard finish | LED<br>3000K<br>>80 CRI<br>731lm | 10w | 120 | Theatre side stairs | |
| L325 | Re-lamp existing surface mounted downlights<br>• PAR38<br>• Medium skirted base<br>• 30° beam spread<br>• Dimmable | Satco<br>#S2259 | Halogen<br>3050K | 80W | 120 | Valade theatre | |
| L350 | Surface mounted linear wallwash<br>• Surface mounted to jbox<br>• Integral line voltage dimming driver | Boca Flasher<br>HPNFC-H08-3000K-30X60-277-B-I-S-C-SSB | LED<br>3000K<br>>90 CRI<br>450lm lf. | 10W lf. | 277 | Hilberry Gateway lobby feature wall | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L351 | Surface mounted linear downlight<br>• Surface mounted to jbox<br>• Standard shielding<br>• No dimming required<br>• Black textured finis$800h<br>• 4'-0" length | Lumenwerx<br>VIA4S-HLO-LED-80-1000-30-4FT-120V-D1-DRC-B<br><br>Alternate Fixture:<br>Pinnacle ltg<br>EX44-A-N-30-4'-S-U-ND-1-0-BL<br>(4.6W/81.6 LUMENS LF) | LED<br>3000K<br>80 CRI<br>1000lm lf. | 37.3W | 120 | Studio theatre tension grid | |
| L375A | Surface mount linear strip<br>• Diffuse lens<br>• Aluminum housing<br>• Stainless steel mounting clips<br>• Remote dimming driver w/ forward or reverse phase.<br>• 14'-11" length | Qtran<br>Housing: ARKA-ST-SST-DF-[Per EC]- 14'-11"<br>Tape: SW24/3.0-dry-30-252/98-BRL-BRL-14'-11"<br>Power supply: IQ-PH-80-120/24V-WH<br><br>Alternate Fixture:<br>Aion<br>Housing: AT845<br>Tape: 4924-30-LE<br>Power supply: Z2 BLUE | LED<br>3000K<br>98 CRI<br>252lm lf. | 3W lf. | 24 | Valade lobby | |
| L375B | Same as L325A except:<br>• 11'-1" length | Qtran<br>Housing: ARKA-ST-SST-DF-[Per EC]- 11'-1"<br>Tape: SW24/3.0-dry-30-252/98-BRL-BRL-11'-1"<br>Power supply: IQ-PH-80-120/24V-WH<br><br>Alternate Fixture:<br>Aion<br>Housing: AT845<br>Tape: 4924-30-LE<br>Power supply: Z2 BLUE | LED<br>3000K<br>98 CRI<br>252lm lf. | 3W lf. | 24 | Valade lobby | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L375C | Same as L325A except:<br>• 19'-3" length | Qtran<br>Housing: ARKA-ST-SST-DF-[Per EC]-19'-3"<br>Tape: SW24/3.0-dry-30-252/98-BRL-BRL-19'-3"<br>Power supply: IQ-PH-80-120/24V-WH<br><br>Alternate Fixture:<br>Aion<br>Housing: AT845<br>Tape: 4924-30-LE<br>Power supply: Z2 BLUE | LED<br>3000K<br>98 CRI<br>252lm lf. | 3W lf. | 24 | Valade lobby | |
| L375D | Same as L325A except:<br>• 33'-0" length | Qtran<br>Housing: ARKA-ST-SST-DF-[Per EC]-33'-0"<br>Tape: SW24/3.0-dry-30-252/98-BRL-BRL-33'-0"<br>Power supply: IQ-PH-80-120/24V-WH<br><br>Alternate Fixture:<br>Aion<br>Housing: AT845<br>Tape: 4924-30-LE<br>Power supply: Z2 BLUE | LED<br>3000K<br>98 CRI<br>252lm lf. | 3W lf. | 24 | Valade lobby | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L375F | Same as L325A except:<br>• 36'-0" length | Qtran<br>Housing: ARKA-ST-SST-DF-[Per EC]-36'-0"<br>Tape: SW24/3.0-dry-30-252/98-BRL-BRL-36'-0"<br>Power supply: IQ-PH-80-120/24V-WH<br><br>Alternate Fixture:<br>Aion<br>Housing: AT845<br>Tape: 4924-30-LE<br>Power supply: Z2 BLUE | LED<br>3000K<br>98 CRI<br>252lm lf. | 3W lf. | 24 | Valade lobby | |
| L376 | Recessed lense linear downlight | Qtran<br>Housing: FLUR-BK-SS-DF-S1-129"<br>Tape: SW24/3-30-BW-BW-128"<br>Power supply: QTM-DC+CAP<br><br>Alternate Fixture:<br>Aion<br>Housing: MT101<br>Tape: 1524-30-LE<br>Power supply: Z2 BLUE | | | | Valade lobby/Box Office | |
| L376A | Recessed lense linear downlight | Qtran<br>Housing: FLUR-BK-SS-DF-S1-103"<br>Tape: SW24/3-30-BW-BW-101"<br>Power supply: QTM-DC+CAP<br><br>Alternate Fixture:<br>Aion<br>Housing: MT101<br>Tape: 1524-30-LE<br>Power supply: Z2 BLUE | | | | Valade lobby/Coat check | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L400 | Recessed track<br>• Extruded aluminum<br>• End cap accessory<br>• Current limiter<br>• White finish<br>• 12'-0" length | LSI<br>813[LENGTH]<br>End cap accessory: 80303<br><br>Alternate Fixture:<br>Edison Price<br>SLR/[LENGTH] | N/A | N/A | 120 | Proscenium theatre vomitory | |
| L400A | Same as L400 except:<br>• 10'-0" length | LSI<br>813[LENGTH]<br>End cap accessory: 80303<br><br>Alternate Fixture:<br>Edison Price<br>SLR/[LENGTH] | N/A | N/A | 120 | Proscenium theatre vomitory | |
| L400B | Same as L400 except:<br>• 5'-0" length | LSI<br>813[LENGTH]<br>End cap accessory: 80303<br><br>Alternate Fixture:<br>Edison Price<br>SLR/[LENGTH] | N/A | N/A | 120 | Proscenium theatre vomitory | |
| L400C | Same as L400 | LSI<br>813[LENGTH]<br>End cap accessory: 80303<br><br>Alternate Fixture:<br>Edison Price<br>SLR/[LENGTH] | N/A | N/A | 120 | Proscenium theatre vomitory | |

| TYPE | DESCRIPTION | MANUFACTURER | LIGHT SOURCE | WATTS | VOLTS | COMMENTS | REV. |
|---|---|---|---|---|---|---|---|
| L450 | Track head<br>• Die-cast aluminum housing<br>• Integral dimming<br>• Louver hex<br>• Spread lens - 50° x 50°<br>• Silver finish<br>• Architect to confirm finish | LSI<br>LX2020-ZE1-03-09-30-25-0E-ED-120-[FINISH]<br>Accessories:<br>Louver hex – AAA<br>Spread lens – AAA995<br><br>Alternate Fixture:<br>Edison Price<br>MM-XTM-OX-DMP-2C-SI-L10H-30K-60D<br>Accessories:<br>Prismatic lens: PLS/2.75 | LED<br>3000K<br>90 CRI<br>270lm | 5W | 120 | Proscenium theatre vomitory | |
| L475 | Re-lamp existing track fixture<br>• MR16 LED Lamp<br>• GU5.3 base<br>• Optical accessory - 60° beam angle | Soraa<br>SM16-07-10D-830-03<br>Optical accessory: AC-GC-6060-00 | LED<br>3000K<br>85 CRI<br>475lm | 7.5W | 120 | Valade lobby | |

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WAYNE STATE UNIVERSITY


Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

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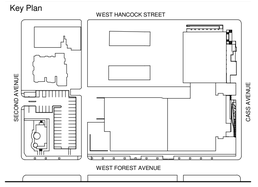
Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


4743 Cass Ave., Detroit, MI 48202

Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# LUMINAIRE SCHEDULES

Project Number: 3995-001-00

Drawn By: CSTOCKWELL

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# E5.0B

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version

## Electrical Equipment Schedule

| EQUIPMENT TAG | DESCRIPTION | LOAD LOCATION | Voltage | VA | FLA | HP | PANEL | CIRCUIT # | CONDUIT AND WIRE | CONNECTION |
|---|---|---|---|---|---|---|---|---|---|---|
| D1 | DRYER | DYE/CRAFT ROOM | 208 V | 180 VA | | | | | | HARD WIRED |
| D2 | DRYER | DYE/CRAFT ROOM | 208 V | 180 VA | | | | | | HARD WIRED |
| D3 | DRYER | DYE/CRAFT ROOM | 208 V | 180 VA | | | | | | HARD WIRED |
| D4 | DRYER | DYE/CRAFT ROOM | 208 V | 180 VA | | | | | | HARD WIRED |
| ID#1 | 8' RETRACTABLE CORD REAL | DESIGN SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | DESIGN SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | DESIGN SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | DESIGN SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | DESIGN SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | PROP SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | PROP SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | PROP SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | PROP SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | PROP SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#1 | 8' RETRACTABLE CORD REAL | PROP SHOP | 120 V | 180 VA | | | | | | BUSWAY |
| ID#2 | CS CUTTING TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#2 | CS CUTTING TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#2 | CS CUTTING TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#2 | CS CUTTING TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#3 | CS SERGER TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#3 | CS SERGER TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#3 | CS SERGER TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#3 | CS SERGER TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#3 | CS SERGER TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#3 | CS SERGER TABLE | COSTUME SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#4 | ABR CHOP SAW | METAL SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#5 | ARC WELDER | METAL SHOP | 240 V | 180 VA | | | | | | PLUG |
| ID#6 | B/D SANDER | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#6 | B/D SANDER | SCENE SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#7 | BENCH GRINDER | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#8 | CHOP SAW | SCENE SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#8 | CHOP SAW | SCENE SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#8 | CHOP SAW | SCENE SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#9 | CNC ROUTER | SCENE SHOP | 208 V | 180 VA | | | | | | HARD WIRED |
| ID#10 | CNC VAC | SCENE SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#11 | COLD SAW | METAL SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#12 | DRILL PRESS | SCENE SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#12 | DRILL PRESS | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#13 | DUST COLLECTOR | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#13 | DUST COLLECTOR | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#14 | HORIZ BAND SAW | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#15 | LATHE | SCENE SHOP | 208 V | 180 VA | | | | | | HARD WIRED |
| ID#16 | MIG WELDER | METAL SHOP | 240 V | 180 VA | | | | | | PLUG |
| ID#16 | MIG WELDER | METAL SHOP | 240 V | 180 VA | | | | | | PLUG |
| ID#17 | MOBILE FILTER UNIT | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#17 | MOBILE FILTER UNIT | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |

## Electrical Equipment Schedule

| EQUIPMENT TAG | DESCRIPTION | LOAD LOCATION | Voltage | VA | FLA | HP | PANEL | CIRCUIT # | CONDUIT AND WIRE | CONNECTION |
|---|---|---|---|---|---|---|---|---|---|---|
| ID#17 | MOBILE FILTER UNIT | METAL SHOP | 120 V | 180 VA | | | | | | PLUG |
| ID#18 | PANEL SAW | SCENE SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#19 | RETRACTABLE CORD REAL | ELEC/SOUND SHOP/STOR | 120 V | 180 VA | | | | | | BUSWAY |
| ID#19 | RETRACTABLE CORD REAL | ELEC/SOUND SHOP/STOR | 120 V | 180 VA | | | | | | BUSWAY |
| ID#19 | RETRACTABLE CORD REAL | ELEC/SOUND SHOP/STOR | 120 V | 180 VA | | | | | | BUSWAY |
| ID#19 | RETRACTABLE CORD REAL | ELEC/SOUND SHOP/STOR | 120 V | 180 VA | | | | | | BUSWAY |
| ID#20 | WD BANDSAW Lg BLADE | SCENE SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#21 | WD BANDSAW | SCENE SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#22 | WD TABLE SAW | SCENE SHOP | 120 V | 180 VA | | | | | | HARD WIRED |
| ID#23 | LASER CUTTER | LASER CUTTING ROOM | 208 V | 180 VA | | | | | | HARD WIRED |
| ID#23 | LASER CUTTER | LASER CUTTING ROOM | 208 V | 180 VA | | | | | | HARD WIRED |
| ID#60 | CS DYE VAT | DYE/CRAFT ROOM | 480 V | 180 VA | | | | | | HARD WIRED |
| W1 | WASHER | DYE/CRAFT ROOM | 120 V | 90 VA | | | | | | HARD WIRED |
| W2 | WASHER | DYE/CRAFT ROOM | 120 V | 90 VA | | | | | | HARD WIRED |
| W3 | WASHER | DYE/CRAFT ROOM | 120 V | 90 VA | | | | | | HARD WIRED |
| W4 | WASHER | DYE/CRAFT ROOM | 120 V | 90 VA | | | | | | HARD WIRED |
| W5 | WASHER | DYE/CRAFT ROOM | 120 V | 90 VA | | | | | | HARD WIRED |

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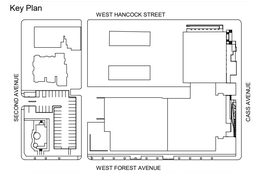
4743 Cass Ave., Detroit, MI 48202

Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ELECTRICAL EQUIPMENT SCHEDULE

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# E5.1

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

## Panel: CONVENIENCE PANELS WEST SIDE PANEL # 1

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: CONVENIENCE PANELS WEST SIDE PANEL # 2

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: LP-G

**Location:** **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: LP-H

**Location:** **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: OPEN # 1

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## PANEL: DIST. PANEL # 1

**Location:** ROOM 127 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 600 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |
| | | Total Conn. Load Phase A: | | 0 VA | |
| | | Total Conn. Load Phase B: | | 0 VA | |
| | | Total Conn. Load Phase C: | | 0 VA | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**

## PANEL: DIST. PANEL # 2

**Location:** ROOM 127 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 600 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |
| | | Total Conn. Load Phase A: | | 0 VA | |
| | | Total Conn. Load Phase B: | | 0 VA | |
| | | Total Conn. Load Phase C: | | 0 VA | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**


HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

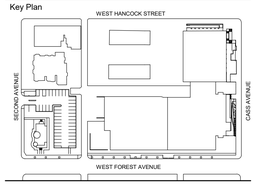
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


4743 Cass Ave., Detroit, MI 48202

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ELECTRICAL PANEL SCHEDULE

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# E5.2

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

## PANEL: SEC#3

**Location:** ROOM 127 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 600 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |
| | | Total Conn. Load Phase A: | | | 0 VA |
| | | Total Conn. Load Phase B: | | | 0 VA |
| | | Total Conn. Load Phase C: | | | 0 VA |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**

## PANE: SEC#4

**Location:** ROOM 127 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 600 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |
| | | Total Conn. Load Phase A: | | | 0 VA |
| | | Total Conn. Load Phase B: | | | 0 VA |
| | | Total Conn. Load Phase C: | | | 0 VA |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**

## PANEL: SEC#5

**Location:** ROOM 127 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 600 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |
| | | Total Conn. Load Phase A: | | | 0 VA |
| | | Total Conn. Load Phase B: | | | 0 VA |
| | | Total Conn. Load Phase C: | | | 0 VA |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**

## Panel: CAFE PANEL

**Location:** CAFE 131 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: STAGEHOUSE 150A

**Location:** ROOM 136 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:** 225

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: THEATER SUPPORT PANEL # 3

**Location:** ROOM 136 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: THEATER SUPPORT PANEL # 4

**Location:** ROOM 136 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: BOX OFFICE PANEL 140

**Location:** STAGE MGR OFFICE 140 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: COSTUME SHOP

**Location:** ROOM 162 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

HamiltonAnderson
architecture landscape architecture urban design

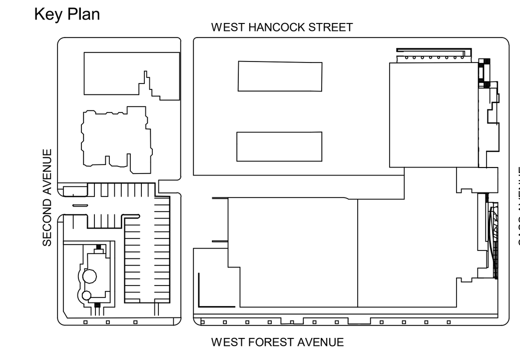
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ELECTRICAL PANEL SCHEDULE

Project Number: 3995-001-00

Drawn By: B.GUTIERREZ

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# E5.3

Sheet Size: 30" x 42"
: Template Version

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version

## Panel: THEATER SUPPORT PANEL # 1

**Location:** SLL 150C **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: THEATER SUPPORT PANEL #2

**Location:** ROOM 150C **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: CONVENIENCE PANELS WEST SIDE

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: DRESSING ROOM # 1

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: DRESSING ROOM # 2

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: EMERGENCY PANEL # 2

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: EMERGENCY PANEL # 1

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: EMERGENCY 150A PANEL # 3 RM 166

**Location:** ROOM 166 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: PROP SHOP

**Location:** ROOM 175 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**


HamiltonAnderson
architecture landscape architecture urban design

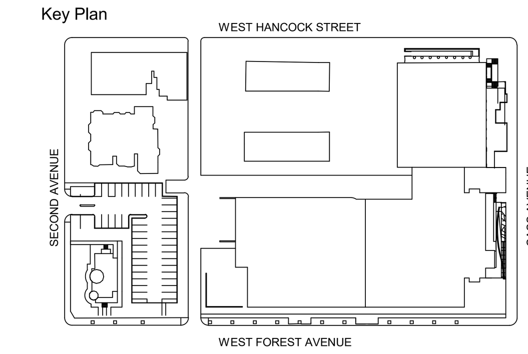
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


4743 Cass Ave., Detroit, MI 48202

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# ELECTRICAL PANEL SCHEDULE

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

E5.4

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
: Template Version

## Panel: METAL SHOP

**Location:** ROOM 190 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: SCENE SHOP

**Location:** ROOM 192 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: PAINT / SCENE ASSEMBLY

**Location:** ROOM 193 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: OPEN 1 150A

**Location:** ROOM 253 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: OPEN 225A

**Location:** ROOM 253 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: OPEN 2 150A

**Location:** ROOM 253 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: OPEN 2 225A

**Location:** ROOM 253 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: OPEN 3 150A

**Location:** ROOM 253 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 150 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: OPEN 3 225A

**Location:** ROOM 253 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | Total Conn. Load: | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | Total Est. Demand: | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | Total Conn. Current: | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | Total Est. Demand Current: | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


Owner: Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor: Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect: Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect: HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer: HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer: DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer: Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect: Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

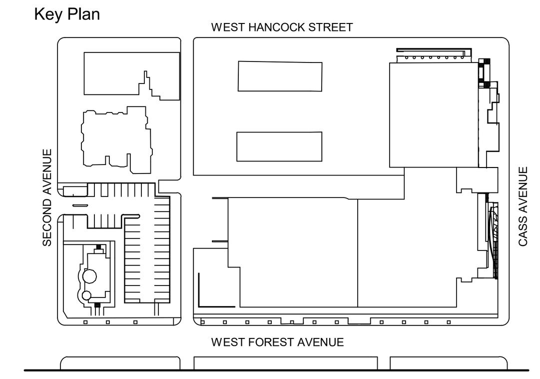
Theatrical: Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting: Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV: Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


4743 Cass Ave., Detroit, MI 48202

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## ELECTRICAL PANEL SCHEDULE

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

E5.5

Sheet Size: 30" x 42"
- Template Version

## PANEL: ELECTRICAL EQUIPMENT DIST. 600A

**Location:** ROOM 254 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 600 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |

| | |
|---|---|
| Total Conn. Load Phase A: | 0 VA |
| Total Conn. Load Phase B: | 0 VA |
| Total Conn. Load Phase C: | 0 VA |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**

## PANEL: THEATRICAL DIST. 600A

**Location:** ROOM 254 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 600 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |

| | |
|---|---|
| Total Conn. Load Phase A: | 0 VA |
| Total Conn. Load Phase B: | 0 VA |
| Total Conn. Load Phase C: | 0 VA |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**

## PANEL: THEATRICAL DIST. 1200A

**Location:** ROOM 254 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 1200 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |

| | |
|---|---|
| Total Conn. Load Phase A: | 0 VA |
| Total Conn. Load Phase B: | 0 VA |
| Total Conn. Load Phase C: | 0 VA |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**

## PANEL: MECH. DIST. PANEL 1600A

**Location:** ROOM 270 **Distribution System:** 480/277V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** SURFACE **Wire:** 4 **Mains Rating:** 1200 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Trip Rating | Poles | Circuit | Load |
|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA |
| | SPARE | 20 A | 1 | 2 | 0 VA |
| | SPARE | 20 A | 1 | 3 | 0 VA |
| | SPARE | 20 A | 1 | 4 | 0 VA |
| | SPARE | 20 A | 1 | 5 | 0 VA |
| | SPARE | 20 A | 1 | 6 | 0 VA |
| | SPARE | 20 A | 1 | 7 | 0 VA |
| | SPARE | 20 A | 1 | 8 | 0 VA |
| | SPARE | 20 A | 1 | 9 | 0 VA |
| | SPARE | 20 A | 1 | 10 | 0 VA |
| | SPARE | 20 A | 1 | 11 | 0 VA |
| | SPARE | 20 A | 1 | 12 | 0 VA |
| | SPARE | 20 A | 1 | 13 | 0 VA |
| | SPARE | 20 A | 1 | 14 | 0 VA |
| | SPARE | 20 A | 1 | 15 | 0 VA |

| | |
|---|---|
| Total Conn. Load Phase A: | 0 VA |
| Total Conn. Load Phase B: | 0 VA |
| Total Conn. Load Phase C: | 0 VA |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 02 - Ltg Less than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | | |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Notes:**

## Panel: CATWALK 225A

**Location:** FOLLOWSPOT 435 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:** 225 A
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

## Panel: TENSION GRID 400A

**Location:** FOLLOWSPOT 435 **Distribution System:** 208/120V **A.I.C Rating:**
**Supply From:** **Phase:** 3 **Mains Type:**
**Mounting:** RECESSED **Wire:** 4 **Mains Rating:**
**Enclosure Type:** **MCB Rating:**

| Note | Descriptions | Amps | Pole | CKT | A | | B | | C | | CKT | Pole | Amps | Descriptions | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SPARE | 20 A | 1 | 1 | 0 VA | 0 VA | | | | | 2 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 3 | | | 0 VA | 0 VA | | | 4 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 5 | | | | | 0 VA | 0 VA | 6 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 7 | 0 VA | 0 VA | | | | | 8 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 9 | | | 0 VA | 0 VA | | | 10 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 11 | | | | | 0 VA | 0 VA | 12 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 13 | 0 VA | 0 VA | | | | | 14 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 15 | | | 0 VA | 0 VA | | | 16 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 17 | | | | | 0 VA | 0 VA | 18 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 19 | 0 VA | 0 VA | | | | | 20 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 21 | | | 0 VA | 0 VA | | | 22 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 23 | | | | | 0 VA | 0 VA | 24 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 25 | 0 VA | 0 VA | | | | | 26 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 27 | | | 0 VA | 0 VA | | | 28 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 29 | | | | | 0 VA | 0 VA | 30 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 31 | 0 VA | 0 VA | | | | | 32 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 33 | | | 0 VA | 0 VA | | | 34 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 35 | | | | | 0 VA | 0 VA | 36 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 37 | 0 VA | 0 VA | | | | | 38 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 39 | | | 0 VA | 0 VA | | | 40 | 1 | 20 A | SPARE | |
| | SPARE | 20 A | 1 | 41 | | | | | 0 VA | 0 VA | 42 | 1 | 20 A | SPARE | |
| | | | | | Phase A | | Phase B | | Phase C | | | | | | |
| | | | | | 0 VA | | 0 VA | | 0 VA | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| 01 - Ltg | 0 VA | 0.00% | 0 VA | | |
| 03 - Rcpt Non-Dwlg | 0 VA | 0.00% | 0 VA | **Total Conn. Load:** | 0 VA |
| 04 - Equipment | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 0 VA |
| 05 - Equipment Greater than 3 Hr | 0 VA | 0.00% | 0 VA | **Total Conn. Current:** | 0 A |
| 06 - Heating | 0 VA | 0.00% | 0 VA | **Total Est. Demand Current:** | 0 A |
| 07 - Heating Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 08 - Cooling | 0 VA | 0.00% | 0 VA | | |
| 09 - Cooling Greater than 3 Hr | 0 VA | 0.00% | 0 VA | | |
| 10 - NS Intmtt Motor | 0 VA | 0.00% | 0 VA | | |
| 11 - Kitchen 65% (6 or more Items) | 0 VA | 0.00% | 0 VA | | |
| Spare | 0 VA | 0.00% | 0 VA | | |

**Panelboard Notes:**

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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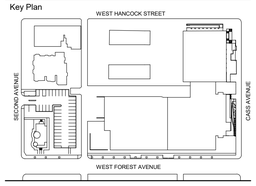
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202


Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ELECTRICAL PANEL SCHEDULE

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# E5.6

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

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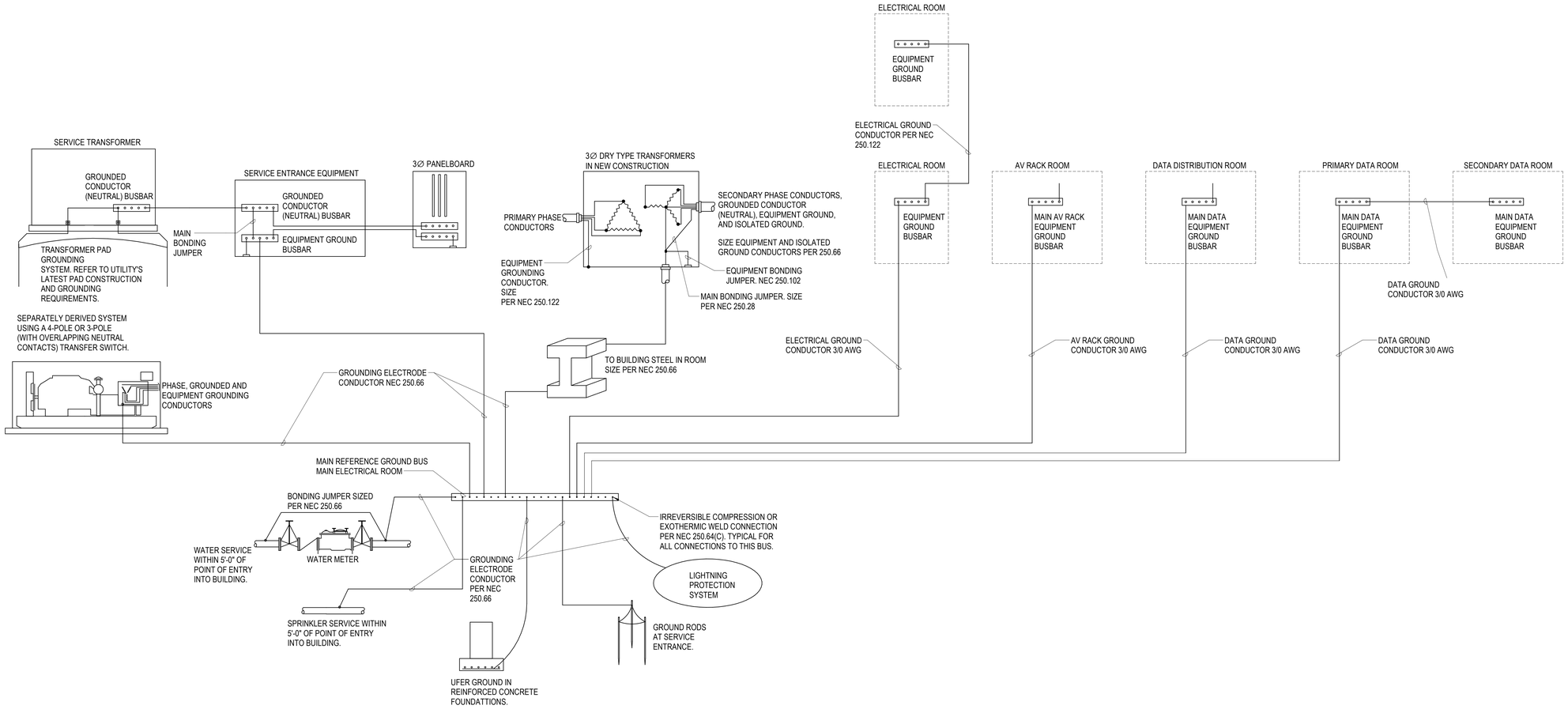
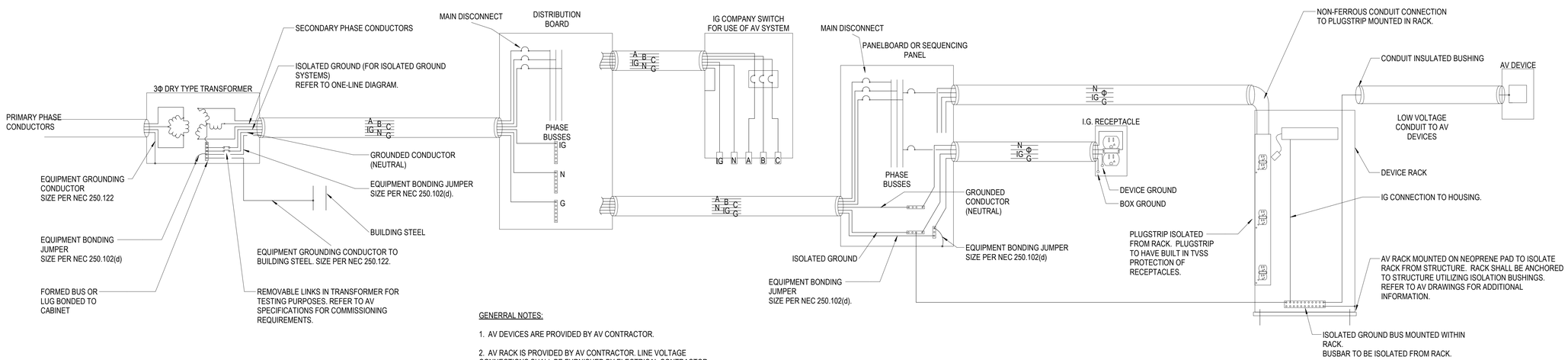
- Template Version




1 GROUNDING DIAGRAM
NTS




GENERRAL NOTES:

1. AV DEVICES ARE PROVIDED BY AV CONTRACTOR.

2. AV RACK IS PROVIDED BY AV CONTRACTOR. LINE VOLTAGE CONNECTIONS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.

3. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.

2 ISOLATED GROUND DETAIL
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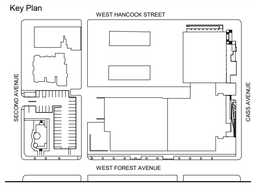
Key Plan




| | |
|---|---|
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Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
ELECTRICAL DETAILS

Project Number: 3995-001-00
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BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
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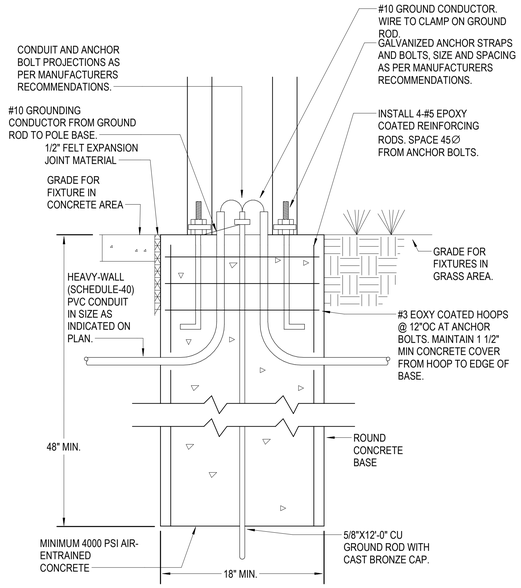
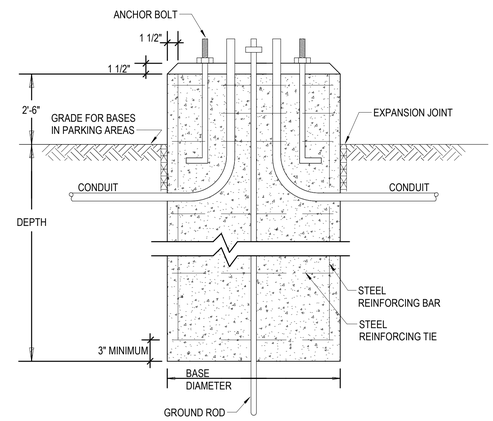



1 BOLLARD BASE
NTS




2 POLE BASE - OPTION 1
NTS

NOTES:
A. PROVIDE SCHEDULE 40 PVC CONDUITS IN SIZE AS INDICATED ON PLANS. PROVIDE PROJECTIONS PER POLE MANUFACTURERS RECOMMENDATIONS.

B. GROUNDING:
- PROVIDE 5/8" X 8'-0" COPPER GROUND ROD WITH CAST BRONZE CAP
- PROVIDE ONE ROD PER POLE BASE
- PROVIDE #10 CONDCUTOR FROM GROUND ROD TO POLE BASE
- TERMINATE GROUND CONDUCTOR WITHIN CONDUIT ON BASE GROUND ROD CLAMP

C.USE 4000 PSI MINIMUM AIR-ENTRAINED CONCRETE.

D. PROVIDE ANCHOR BOLT SIZE, SPACING, AND PROJECTIONS PER POLE MANUFACTURERS RECOMMENDATIONS.

E. PROVIDE THREE #3 STEEL REINFORCING TIES 4" O.C. AT THE TOP OF THE BASE. SPACE ADDITIONAL #3 TIES 12" O.C. THROUGHOUT THE REMAINDER OF THE BASE. MAINTAIN 1 1/2" MINIMUM CONCRETE COVER FROM THE HOOP TO THE EDGE OF THE BASE.

F. INSTALL VERTICAL REINFORCING BARS OFFSET FROM ANCHOR BOLTS.

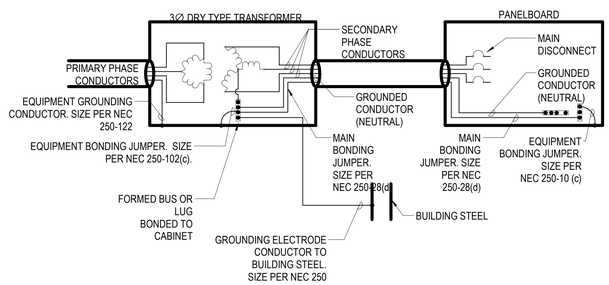
G. ALL REINFORCING STEEL TO BE EPOXY COATED. ANCHOR BOLTS, WASHERS, AND NUTS TO BE GALVANIZED

EDIT NOTES (DELETE WHEN DETAIL IS COMPLETED):

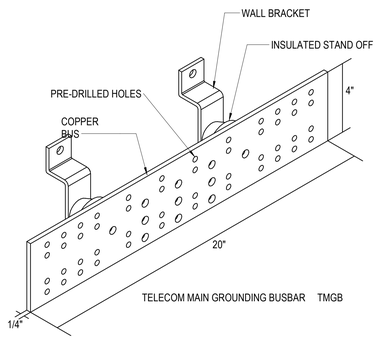
MODIFY THE FOLLOWING SPECIFICS IN THE DETAIL ABOVE PER PROJECT REQUIREMENTS:
- BASE DIAMETER
- BASE DEPTH
- GROUND ROD LENGTH

| POLE HEIGHT | BASE DIAMETER | BASE DEPTH (BELOW GRADE) | STEEL REINFORCING BARS |
|---|---|---|---|
| UP TO 12' | 18" MIN. | 5'-0" | 4 - #6 |
| 16' TO 20' | 24" MIN. | 5'-0" | 6 - #6 |
| 25' TO 30' | 24" MIN. | 7'-0" | 6 - #6 |
| > 30' | CONSULT STRUCT. DEPT. | | |

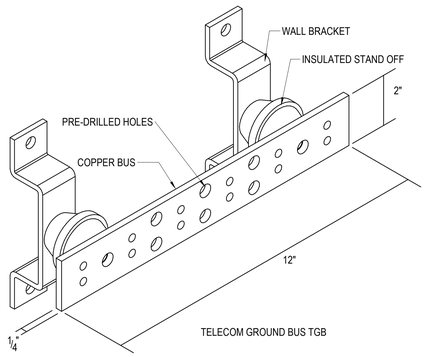
IF POOR SOIL CONDITIONS, COORDINATE WITH STRUCT. DEPT. AND GEOTECHNICAL AGENCY




3 SEPARATELY DERIVED SYSTEM
NTS




4 TELECOM MAIN GROUND BUS
NTS




5 TELECOM GROUND BUS
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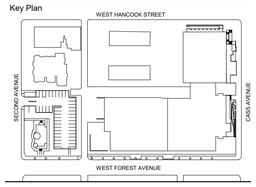
Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
ELECTRICAL DETAILS

Project Number: 3995-001-00
Drawn By: BGUTIERREZ
Scale: As indicated
Seal:

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Signature:

Drawing No:
E6.1

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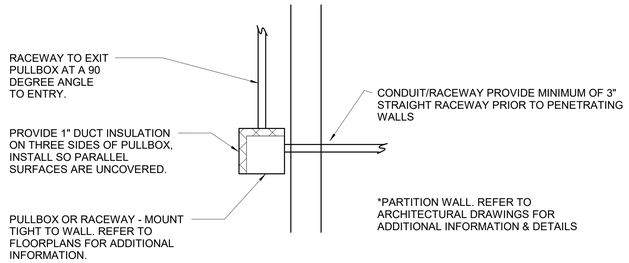


1 ACOUSTIC PULLBOX DETAIL
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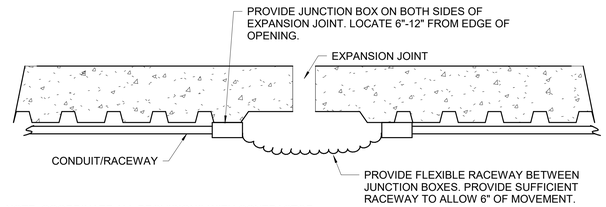
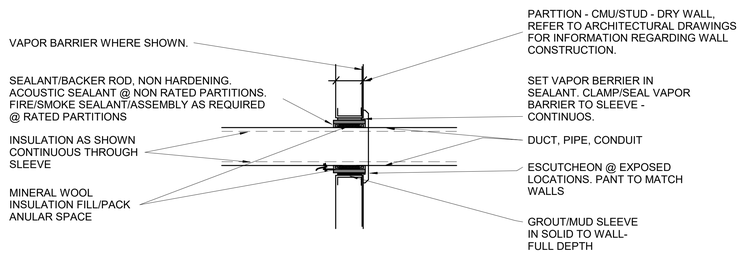



NOTE: COORDINATE ALL PROVISIONS WITH CONTRACTOR INSTALLING EXPANSION JOINT ASSEMBLY PRIOR TO ROUGH IN.

2 EXPANSION JOINT DETAIL1
NTS

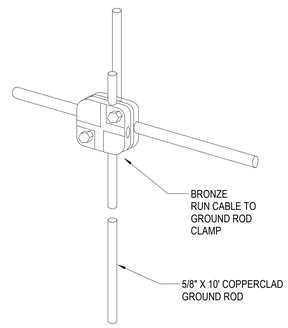



SQUARE:
14 GA MIN.
CONTINUOUS FORMED SHEET METAL 1" GREATER THAN PENETRATING OBJECT.

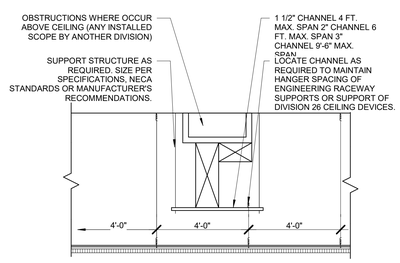
SLEEVE:
ROUND PIPE: SCH 40 MINIMUM. 1" GREATER THAN DIAMETER OF PENETRATING OBJECT

NOTE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONDUIT PENETRATION THOUGH WALLS.
ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION REQUIRED TO PROVIDE ACOUSTIC AND VAPOR BARRIER PENETRATIONS.

3 VAPOR BARRIER - PENETRATION DETAIL
NTS




4 COUNTER POISE CONNECTION DETAIL
NTS




5 CEILING SUPPORTED EQUIPMENT
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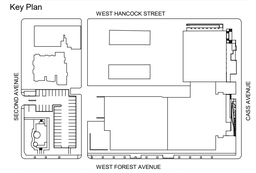


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Project

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WSU PROJECT NO. 189-178578

Drawing Title

# ELECTRICAL DETAILS

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

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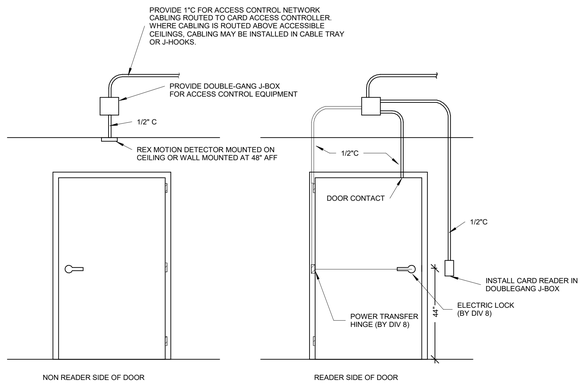
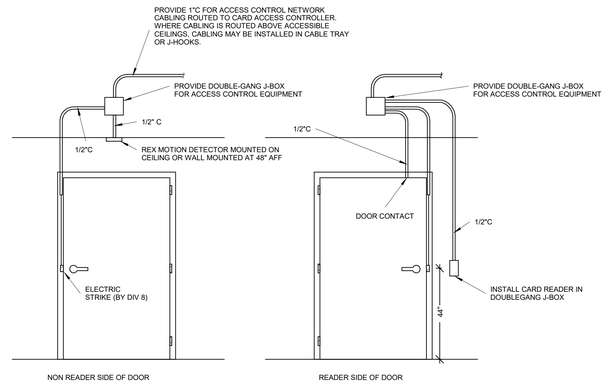
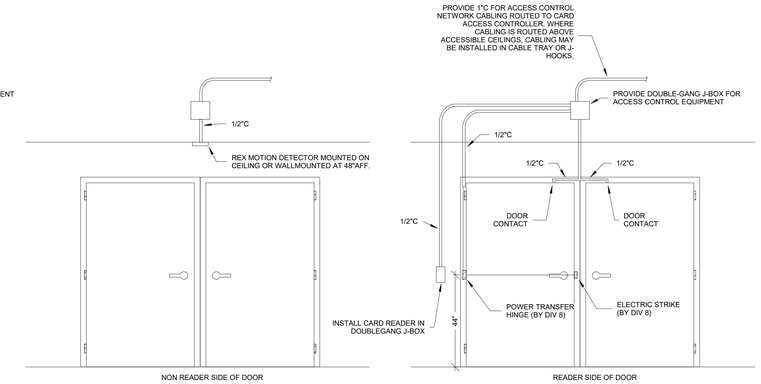


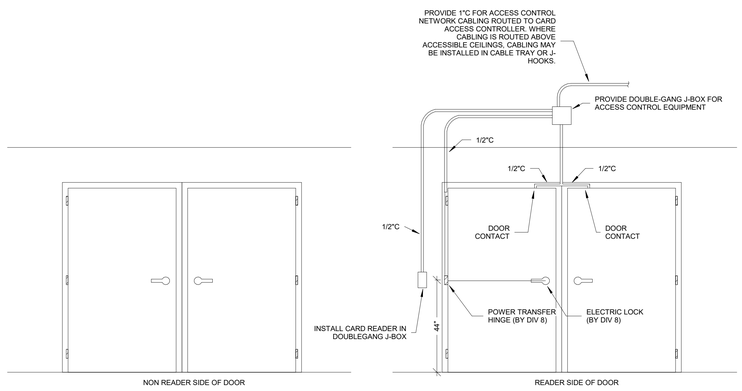

1 SINGLE DOOR ELECTRIC LOCK
NTS




2 SINGLE DOOR ELECTRIC STRIKE
NTS




4 DOUBLE DOOR ELECTRIC STRIKE
NTS




3 DOUBLE DOOR ELECTRIC LOCK
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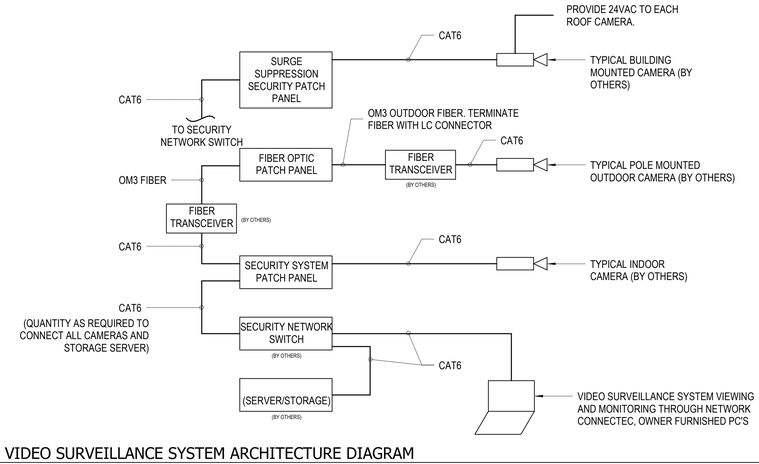
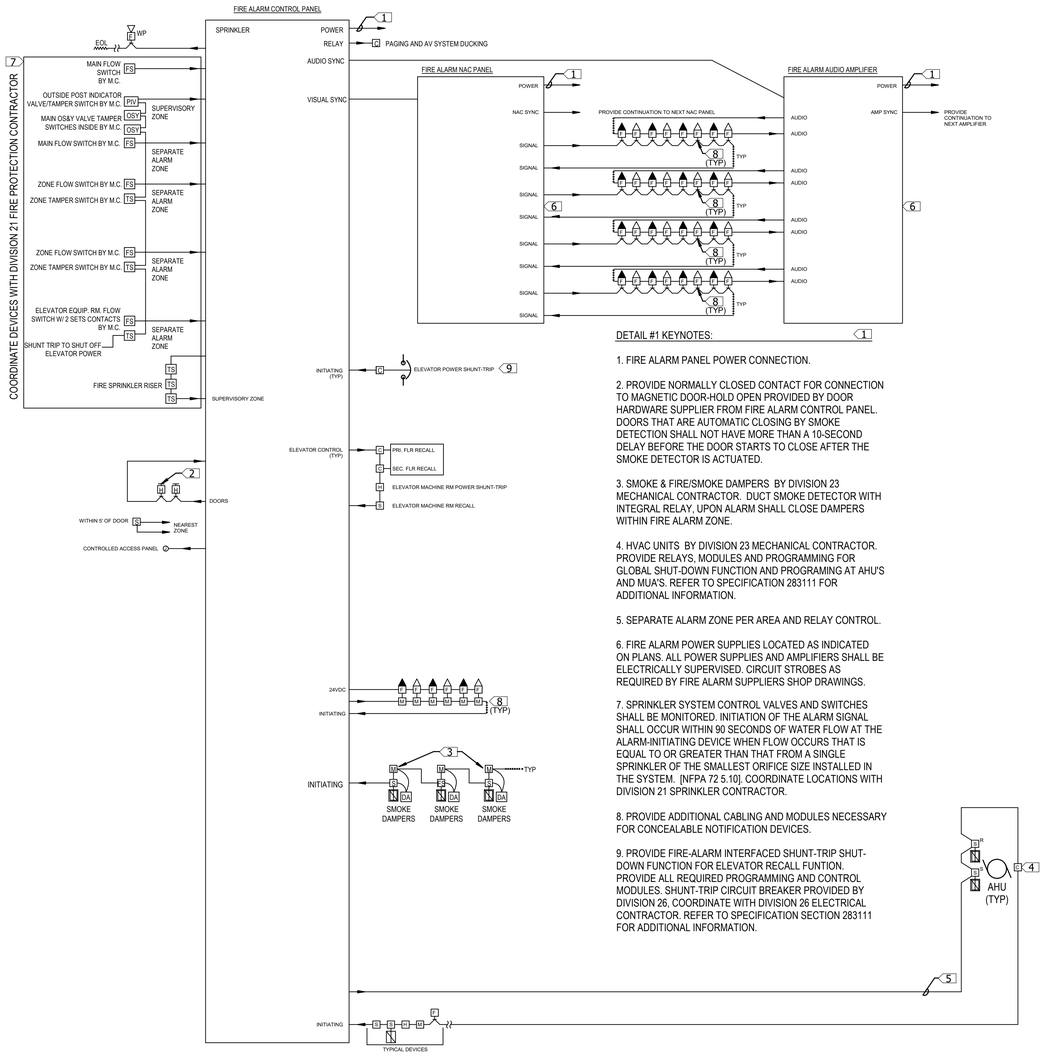



5 VIDEO SURVEILLANCE SYSTEM ARCHITECTURE DIAGRAM
NTS




DETAIL #1 KEYNOTES: 1

1. FIRE ALARM PANEL POWER CONNECTION.

2. PROVIDE NORMALLY CLOSED CONTACT FOR CONNECTION TO MAGNETIC DOOR-HOLD OPEN PROVIDED BY DOOR HARDWARE SUPPLIER FROM FIRE ALARM CONTROL PANEL. DOORS THAT ARE AUTOMATIC CLOSING BY SMOKE DETECTION SHALL NOT HAVE MORE THAN A 10-SECOND DELAY BEFORE THE DOOR STARTS TO CLOSE AFTER THE SMOKE DETECTOR IS ACTUATED.

3. SMOKE & FIRE/SMOKE DAMPERS BY DIVISION 23 MECHANICAL CONTRACTOR. DUCT SMOKE DETECTOR WITH INTEGRAL RELAY, UPON ALARM SHALL CLOSE DAMPERS WITHIN FIRE ALARM ZONE.

4. HVAC UNITS BY DIVISION 23 MECHANICAL CONTRACTOR. PROVIDE RELAYS, MODULES AND PROGRAMMING FOR GLOBAL SHUT-DOWN FUNCTION AND PROGRAMING AT AHU'S AND MUA'S. REFER TO SPECIFICATION 283111 FOR ADDITIONAL INFORMATION.

5. SEPARATE ALARM ZONE PER AREA AND RELAY CONTROL.

6. FIRE ALARM POWER SUPPLIES LOCATED AS INDICATED ON PLANS. ALL POWER SUPPLIES AND AMPLIFIERS SHALL BE ELECTRICALLY SUPERVISED. CIRCUIT STROBES AS REQUIRED BY FIRE ALARM SUPPLIERS SHOP DRAWINGS.

7. SPRINKLER SYSTEM CONTROL VALVES AND SWITCHES SHALL BE MONITORED. INITIATION OF THE ALARM SIGNAL SHALL OCCUR WITHIN 90 SECONDS OF WATER FLOW AT THE ALARM-INITIATING DEVICE WHEN FLOW OCCURS THAT IS EQUAL TO OR GREATER THAN THAT FROM A SINGLE SPRINKLER OF THE SMALLEST ORIFICE SIZE INSTALLED IN THE SYSTEM. [NFPA 72 5.10]. COORDINATE LOCATIONS WITH DIVISION 21 SPRINKLER CONTRACTOR.

8. PROVIDE ADDITIONAL CABLING AND MODULES NECESSARY FOR CONCEALABLE NOTIFICATION DEVICES.

9. PROVIDE FIRE-ALARM INTERFACED SHUNT-TRIP SHUT-DOWN FUNCTION FOR ELEVATOR RECALL FUNTION. PROVIDE ALL REQUIRED PROGRAMMING AND CONTROL MODULES. SHUNT-TRIP CIRCUIT BREAKER PROVIDED BY DIVISION 26, COORDINATE WITH DIVISION 26 ELECTRICAL CONTRACTOR. REFER TO SPECIFICATION SECTION 283111 FOR ADDITIONAL INFORMATION.

6 SCHEMATIC FIRE ALARM SYSTEM ONE-LINE DIAGRAM
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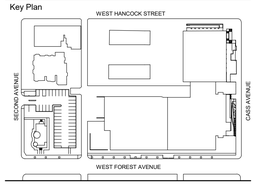
4743 Cass Ave., Detroit, MI 48202


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# SYSTEMS DETAILS

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

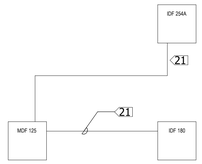
Signature:

Drawing No:

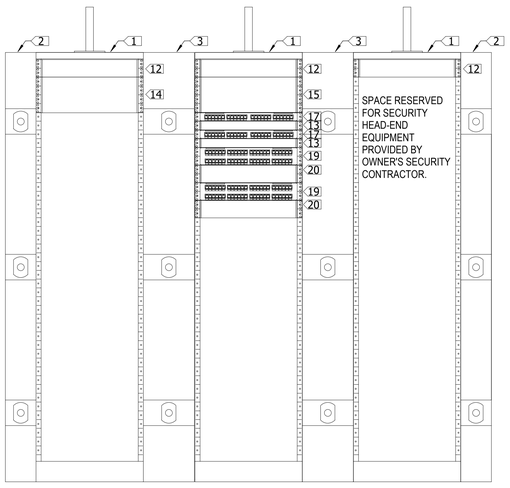
# E7.0

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

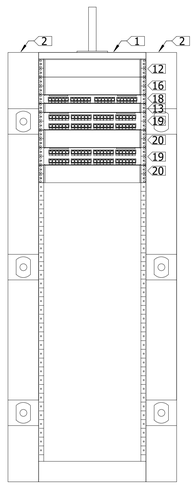
Sheet Size: 30" x 42"
- Template Version



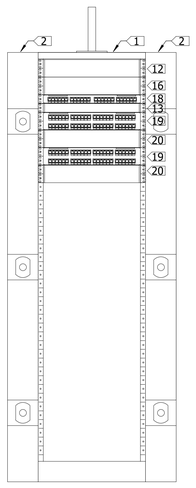

3 TELECOM RISER
NTS



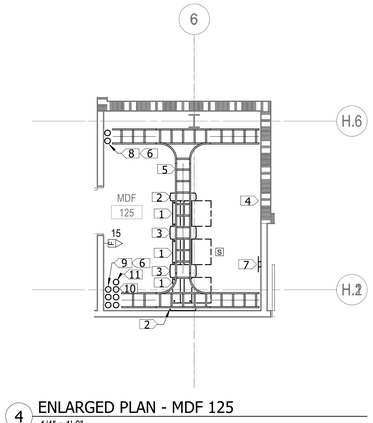

1 MDF 125 RACK ELEVATIONS
NTS



2 IDF 180 RACK ELEVATION
NTS



7 IDF 254A RACK ELEVATION
NTS




4 ENLARGED PLAN - MDF 125
1/4" = 1'-0"

5 ENLARGED PLAN - IDF 180
1/4" = 1'-0"

6 ENLARGED PLAN - IDF 254A
1/4" = 1'-0"

KEYNOTES:

1. PROVIDE TWO POST EQUIPMENT RACK.
2. PROVIDE 6" WIDE VERTICAL CABLE MANAGEMENT.
3. PROVIDE 10" WIDE VERTICAL CABLE MANAGEMENT.
4. PROVIDE 3/4" X 8" AC GRADE PAINTED FLAME RETARDANT PLYWOOD ALONG ALL FOUR WALLS OF ROOM.
5. PROVIDE 12" WIDE TELECO STYLE LADDER RACKING WITH CABLE DROP OUTS AT EACH EQUIPMENT RACK.
6. PROVIDE 12" WIDE TELECO STYLE LADDER RACKING VERTICALLY MOUNTED ON WALL FOR CABLE SUPPORT BETWEEN UNDERGROUND CONDUIT AND SUSPENDED CABLE TRAY.
7. PROVIDE GROUNDING BUSBAR.
8. PROVIDE (2) 4" PVC SCH 80 CONDUIT CONNECTION BETWEEN EXISTING LOW-VOLTAGE UTILITY MANHOLE AND BUILDING MDF. PROVIDE (3) 1-1/4" INNER DUCTS IN EACH CONDUIT. PROVIDE CONCRETE ENCASEMENT UNDER DRIVEWAY. REFER TO SITE PLAN E0.4 FOR ADDITIONAL INFORMATION.
9. PROVIDE (3) 4" PVC SCH 80 CONDUIT CONNECTION BETWEEN MDF 125 AND IDF 180 ROUTED UNDERGROUND FOR BACKBONE FIBER CABLING. PROVIDE (3) 1-1/4" INNER DUCTS IN EACH CONDUIT. PROVIDE CONCRETE ENCASEMENT UNDER DRIVEWAY.
10. PROVIDE (3) 4" PVC SCH 80 CONDUIT CONNECTION BETWEEN MDF 125 AND IDF 254A ROUTED UNDERGROUND FOR BACKBONE FIBER CABLING. PROVIDE (3) 1-1/4" INNER DUCTS IN EACH CONDUIT. PROVIDE CONCRETE ENCASEMENT UNDER DRIVEWAY.
11. PROVIDE (1) 4" PVC SCH 80 CONDUIT CONNECTION BETWEEN MDF 125 AND AV ROOM ROUTED UNDERGROUND FOR AV CABLING. PROVIDE CONCRETE ENCASEMENT UNDER DRIVEWAY.
12. PROVIDE TWO RACK POSITION HEIGHT HORIZONTAL CABLE MANAGEMENT.
13. PROVIDE ONE RACK POSITION HEIGHT HORIZONTAL CABLE MANAGEMENT.
14. PROVIDE FOUR RACK POSITION HEIGHT FIBER OPTIC PATCH PANEL FOR TERMINATION OF CAMPUS FIBER OPTIC BACKBONE CABLING.
15. PROVIDE FOUR RACK POSITION HEIGHT FIBER OPTIC PATCH PANEL FOR TERMINATON OF FIBER OPTIC BACKBONE CABLING TO FLOOR IDF ROOMS.
16. PROVIDE TWO RACK POSITION HEIGHT FIBER OPTIC PATCH PANEL FOR TERMINATION OF FIBER OPTIC BACKBONE CABLING TO MDF ROOM.
17. PROVIDE 24 PORT TWISTER PAIR PATCH FOR TERMINATION OF TWISTED PAIR BACKBONE CABLING TO FLOOR IDF ROOMS.
18. PROVIDE 24 PORT TWISTED PAIR PATCH FOR TERMINATION OF TWISTED PAIR BACKBONE CABLING TO MDF ROOM.
19. PROVIDE 48 PORT TWISTED PAIR PATCH FOR TERMINATION OF HORIZONTALCABLES TO DATA OUTLETS AND SECURITY DEVICE OUTLETS.
20. ETHERNET SWITCH PROVIDED BY OWNER'S IT DEPARTMENT. SHOWN FOR SPACE ALLOCATION ONLY.
21. PROVIDE 12 STRANDS OF MULTIMODE FIBER OPTIC CABLING, 12 STRANDS OF SINGLEMODE FIBER OPTIC CABLING, AND 25 PAIRS OF TWISTED PAIR BACKBONE CABLING. TERMINATE FIBER OPTIC CABLING AND TWISTED PAIR CABLING ON RACK MOUNTED PATCH PANELS AT BOTH ENDS OF CABLING.


HamiltonAnderson
architecture landscape architecture urban design

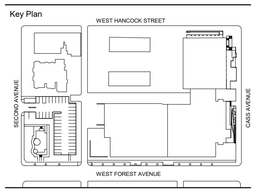
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202


Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# TELECOM ENLARGED PLANS AND DETAILS

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

E7.1

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

## MECHANICAL EQUIPMENT SCHEDULE

| TAG | LOCATION | NORMAL POWER | OPTIONAL BRANCH POWER | EQUIPMENT BRANCH POWER | CRITICAL BRANCH POWER | LIFE SAFETY BRANCH POWER | EMERGENCY POWER | HP | KW | FLA | MCA | OCP | VOLTAGE | PHASE | LOAD | SCCR | PANEL | CIRCUIT # | CONDUIT AND WIRE | DISCONNECT FURNISHED | DISCONNECT SIZE | VSD | STARTER SIZE | VSD OR STARTER RESPONSIBILITY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | FURNISHED | INSTALLED | WIRED |
| GWH-1 | | | | | | | No | | | | | | 120 V | | 0 VA | | | | | | | | | | | |
| GWH-2 | | | | | | | No | | | | | | 120 V | | 0 VA | | | | | | | | | | | |
| AHU RECIRC PUMPS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RCP-1 | HILBERRY MAIN MECH | | | | | | No | .25 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| RCP-1 | HILBERRY MAIN MECH | | | | | | No | .25 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| RCP-3 | HILBERRY MAIN MECH | | | | | | No | .25 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| AIR COMPRESSOR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-1 | SCENE SHOP | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17459 VA | | | | | | | | | | | |
| AC-2 | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17459 VA | | | | | | W/EQUIP | | | | | |
| AIR COOLED CHILLER | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACC-1-CH-1 | EXTERIOR MECH YARD | | | | | | No | | | | 474 | | 480 V | 3 | 0 VA | | | | | | | | | | | |
| ACC-2-CH-2 | EXTERIOR MECH YARD | | | | | | No | | | | 474 | | 480 V | 3 | 0 VA | | | | | | | | | | | |
| BOILERS PUMPS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BP-1 | HILBERRY MAIN MECH | | | | | | No | .25 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| BP-2 | HILBERRY MAIN MECH | | | | | | No | .25 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| BP-3 | HILBERRY MAIN MECH | | | | | | No | .25 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| CABINET UNIT HEATER | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CUH-1 | STAIR 190 | | | | | | No | 1/4 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| CUH-2 | LOADING 126 | | | | | | No | 1/4 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| CUH-3 | VESTIBULE 170 | | | | | | No | 1/4 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| CUH-4 | STAIR 190 | | | | | | No | 1/4 | | 5.8 | | | 120 V | 1 | 696 VA | | | | | | | | | | | |
| EUH-1 | VESTIBULE 100 | | | | | | No | | 12 | | | | 120 V | 1 | 12000 VA | | | | | | | | | | | |
| CHILLED WATER PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHWP-1 | HILBERRY MAIN MECH | | | | | | No | 10 | | 14 | | | 480 V | 3 | 11639 VA | | | | | | | | | | | |
| CHWP-2 | HILBERRY MAIN MECH | | | | | | No | 10 | | 14 | | | 480 V | 3 | 11639 VA | | | | | | | | | | | |
| COMPUTER/DIMMER COOLING UNIT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRAC-1 | ELECTRICAL ROOM 254 | | | | | | No | 3 | | 4.8 | | | 480 V | 3 | 3991 VA | | | | | | | | | W/EQUIP | | |
| CRAC-2 | AUDIO RACK ROOM | | | | | | No | 5 | | 7.6 | | | 480 V | 3 | 6319 VA | | | | | | | | | W/EQUIP | | |
| CRAC-3 | DIMMER ROOM | | | | | | No | 5 | | 7.6 | | | 480 V | 3 | 6319 VA | | | | | | | | | W/EQUIP | | |
| CRAC-4 | CONTROL ROOM | | | | | | No | 1 | | 2.1 | | | 480 V | 3 | 1746 VA | | | | | | | | | | | |
| CONDENSATE PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CP-1 | HILBERRY MAIN MECH | | | | | | No | 1/6 | | | | | 120 V | 1 | 0 VA | | | | | | | | | | | |
| CP-2 | HILBERRY MAIN MECH | | | | | | No | 1/6 | | | | | 120 V | 1 | 0 VA | | | | | | | | | | | |
| CP-3 | 1/6 | | | | | | No | | | | | | 120 V | 1 | 0 VA | | | | | | | | | | | |
| DUST COLLECTOR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DCU-1 | LOADING DOCK | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | DIV 26 | | |
| EXHAUST FAN | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EF-1 | HILBERRY MAIN MECH | | | | | | No | 2 | | 3.4 | | | 480 V | 3 | 2827 VA | | | | | | | | | | | |
| EF-2 | HILBERRY MAIN MECH | | | | | | No | 3 | | 4.8 | | | 480 V | 3 | 3991 VA | | | | | | | | | | | |
| EF-3 | HILBERRY MAIN MECH | | | | | | No | 1 | | 2.1 | | | 480 V | 3 | 1746 VA | | | | | | | | | | | |
| EF-4 | HILBERRY MAIN MECH | | | | | | No | 3/4 | | 1.6 | | | 480 V | 3 | 1330 VA | | | | | | | | | | | |
| EF-5 | HILBERRY MAIN MECH | | | | | | No | 1 | | 2.1 | | | 480 V | 3 | 1746 VA | | | | | | | | | | | |
| EF-6 | LOBBY ROOF | | | | | | No | 1 | | 2.1 | | | 480 V | 3 | 1746 VA | | | | | | | | | DIV 23 | | |
| EF-7 | HILBERRY MAIN MECH | | | | | | No | 1 | | 2.1 | | | 480 V | 3 | 1746 VA | | | | | | | | | | | |
| EF-8 | HILBERRY MAIN MECH | | | | | | No | 3/4 | | 1.6 | | | 480 V | 3 | 1330 VA | | | | | | | | | | | |
| FAN COIL UNIT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FCU-1 | PIANO STORAGE | | | | | | No | .5 | | 1.1 | | | 480 V | | 915 VA | | | | | | | | | | | |
| FIRE PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FP-1 | ROOM 019 | | | | | | Yes | 20 | | | | | 208 V | 3 | 21401 VA | | | | | W / EQUIPMENT | | | | W/EQUIP | | |
| FP-2 | VALADE BASEMENT MECH ROOM | | | | | | Yes | 50 | | 65 | | | 480 V | | 54040 VA | | | | | | | | | | | |

GENERAL NOTES:

A. SEPARATE LINE, LOAD, AND CONTROL CONDUCTORS IN SEPARATE CONTINUOUS METALLIC CONDUITS. PROVIDE FERROUS METALLIC SHIELDING AROUND EACH VSD CONDUCTOR GROUP WHEN CONDUCTORS ARE INSTALLED IN WIREWAY OR GUTTER. THE CONTRACTOR MAY SUBMIT SHIELDED CONDUCTOR CABLE ASSEMBLIES DESIGNED FOR OPERATION WITH VSD'S.

B. PROVIDE ALL POWER CONNECTION INCLUDING WIRING ASSOCIATED WITH ANY ISOLATION TRANSFORMER DISCONNECT REACTORS, FILTERS, AND ANY ACCESSORIES. INCLUDE POWER WIRING FROM THE VSD TO THE MOTOR, AS WELL AS ALL GROUNDING CONNECTIONS.

C. WHERE IT IS NOT POSSIBLE TO INSTALL MOTORS WITHIN THE SIGHT OF THE VSD PROVIDE A DISCONNECT SWITCH AT THE MOTOR AS REQUIRED BY THE NEC OR REQUIRED BY THE SPECIFICATIONS. PROVIDE AN INTERLOCKING CONNECTION BETWEEN THE DISCONNECT AT THE MOTOR AND THE VSD TO PREVENT THE VFC FROM OPERATING IN A NO LOAD SITUATION.

D. ALL CONNECTIONS TO THE VSD SHALL BE WITH A MINIMUM 18 INCHES OF SEAL TIGHT FLEXIBLE CONDUIT, ALLOWING FOR EASE OF MAINTENANCE.

E. PROVIDE SEPARATE GROUNDING CONDUCTOR TO THE VSD AND BETWEEN THE VSD AND THE MOTOR IN ADDITION TO THE CONDUIT SYSTEM.

F. PROVIDE INTEGRAL OVERCURRENT PROTECTION DEVICE WITH VSDs. REFER TO VSD SPECIFICATION.

G. WHERE TYPE MI CONDUCTORS ARE INDICATED, ALTERNATE 2 HOUR FIRE RATED INSTALLATION METHODS MAY BE ACCEPTABLE. THESE METHODS INCLUDE 2-HOUR ENCLOSURE, MINIMUM.

H. EQUIPMENT INFORMATION IN SCHEDULE IN BASED ON DESIGN EQUIPMENT. FINAL REQUIREMENTS TO BE COORDINATED WITH EQUIPMENT PROVIDED BY DIVISION 22, 23 AND 26.

I. WIRE SIZE IS BASED ON MCA REQUIREMENTS OF EQUIPMENT WITHOUT CONSIDERATION FOR VOLTAGE DROP BASED ON INSTALLED WIRE LENGTHS.

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics / AV — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168

4743 Cass Ave., Detroit, MI 48202

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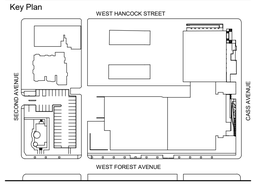


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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ELECTRICAL MECHANICAL COORDINATION SCHEDULES

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# EM8.0

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
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## MECHANICAL EQUIPMENT SCHEDULE CONT.

| TAG | LOCATION | NORMAL POWER | OPTIONAL BRANCH POWER | EQUIPMENT BRANCH POWER | CRITICAL BRANCH POWER | LIFE SAFETY BRANCH POWER | EMERGENCY POWER | HP | KW | FLA | MCA | OCP | VOLTAGE | PHASE | LOAD | SCCR | PANEL | CIRCUIT # | CONDUIT AND WIRE | DISCONNECT FURNISHED | DISCONNECT SIZE | VSD | STARTER SIZE | VSD OR STARTER RESPONSIBILITY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | FURNISHED | INSTALLED | WIRED |
| HOT WATER BOILERS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B-1 | HILBERRY MAIN MECH | | | | | | Yes | | | | | | 120 V | 1 | 0 VA | | | | | | | | | | | |
| B-2 | HILBERRY MAIN MECH | | | | | | No | | | | | | 120 V | 1 | 0 VA | | | | | | | | | | | |
| B-3 | HILBERRY MAIN MECH | | | | | | No | | | | | | 120 V | 1 | 0 VA | | | | | | | | | | | |
| HOT WATER PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HWP-1 | HILBERRY MAIN MECH | | | | | | Yes | 7.5 | | 11 | | | 480 V | 3 | 9145 VA | | | | | | | | | DIV 26 | | |
| HWP-2 | HILBERRY MAIN MECH | | | | | | Yes | 7.5 | | 11 | | | 480 V | 3 | 9145 VA | | | | | | | | | DIV 26 | | |
| JOCKEY PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JP-1 | ROOM 019 | | | | | | Yes | 1 | | 4.6 | | | 208 V | 3 | 1657 VA | | | | | W / EQUIPMENT | | | | W/EQUIP | | |
| JP-2 | VALADE BASEMENT MECH ROOM | | | | | | Yes | 1 | | 2.1 | | | 480 V | 3 | 1746 VA | | | | | | | | | | | |
| MAKE UP AIR UNITS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAU-1 | HILBERRY MAIN MECH | | | | | | No | 10 | | 14 | | | 480 V | 3 | 11640 VA | | | | | | | | | | | |
| MINI SPLIT HEAT PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-1B | EXTERIOR MECH YARD | | | | | | No | | | 2 | 474 | | 208 V | 1 | 416 VA | | | | | | | | | | | |
| AC-2B | EXTERIOR MECH YARD | | | | | | No | | | 2 | 474 | | 208 V | 1 | 416 VA | | | | | | | | | | | |
| ORCHESTRA LIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OL-1 | | | | | | | No | | | | | | 208 V | | 0 VA | | | | | | | | | | | |
| RETURN FANS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AHU-1-R1A | HILBERRY MAIN MECH | | | | | | No | 5 | | 7.6 | | | 480 V | 3 | 6319 VA | | | | | | | | | | | |
| AHU-1-R1B | HILBERRY MAIN MECH | | | | | | No | 10 | | 7.6 | | | 480 V | 3 | 6319 VA | | | | | | | | | | | |
| AHU-2-R2A | HILBERRY MAIN MECH | | | | | | No | 10 | | 14 | | | 480 V | 3 | 11639 VA | | | | | | W/VFD | | | DIV 23 | | |
| AHU-2-R2B | HILBERRY MAIN MECH | | | | | | No | 10 | | 14 | | | 480 V | 3 | 11639 VA | | | | | | W/VFD | | | DIV 23 | | |
| AHU-3-R3A | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | | | |
| AHU-3-R3B | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | | | |
| AHU-3-R3C | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | | | |
| AHU-3-R3D | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | | | |
| SUMP PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-2 | HILBERRY MAIN MECH | | | | | | No | 1 | | 2.1 | | | 480 V | 1 | 1746 VA | | | | | | | | | | | |
| SP-3 | HILBERRY MAIN MECH | | | | | | No | 1 | | 2.1 | | | 120 V | 3 | 1746 VA | | | | | | | | | | | |
| SUPPLY FANS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AHU-1-S1A | HILBERRY MAIN MECH | | | | | | No | 10 | | | | | 480 V | 3 | 11640 VA | | | | | | | | | | | |
| AHU-1-S1B | HILBERRY MAIN MECH | | | | | | No | 10 | | 14 | | | 480 V | 3 | 11640 VA | | | | | | | | | | | |
| AHU-2-S2A | HILBERRY MAIN MECH | | | | | | No | 20 | | 27 | | | 480 V | 3 | 22447 VA | | | | | | W/VFD | | | DIV 23 | | |
| AHU-2-S2B | HILBERRY MAIN MECH | | | | | | No | 20 | | 27 | | | 480 V | 3 | 22447 VA | | | | | | W/VFD | | | DIV 23 | | |
| AHU-3-S3A | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | | | |
| AHU-3-S3B | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | | | |
| AHU-3-S3C | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | | | |
| AHU-3-S3D | HILBERRY MAIN MECH | | | | | | No | 15 | | 21 | | | 480 V | 3 | 17460 VA | | | | | | | | | | | |
| AHU-4-R4 | LOBBY ROOF | | | | | | No | 10 | | 14 | | | 480 V | 3 | 11639 VA | | | | | | | | | | | |
| AHU-4-S4 | LOBBY ROOF | | | | | | No | 25 | | 34 | | | 480 V | 3 | 28267 VA | | | | | | | | | | | |
| WATER DISTRIBUTION PUMP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PP-1 | HILBERRY MAIN MECH | | | | | | No | 1/2 | | 9.8 | | | 120 V | 1 | 1176 VA | | | | | | | | | | | |
| WATER SOFTENER | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WS-1 | HILBERRY MAIN MECH | | | | | | No | | | | | | 120 V | 1 | 0 VA | | | | | | | | | | | |

GENERAL NOTES:

A. SEPARATE LINE, LOAD, AND CONTROL CONDUCTORS IN SEPARATE CONTINUOUS METALLIC CONDUITS. PROVIDE FERROUS METALLIC SHIELDING AROUND EACH VSD CONDUCTOR GROUP WHEN CONDUCTORS ARE INSTALLED IN WIREWAY OR GUTTER. THE CONTRACTOR MAY SUBMIT SHIELDED CONDUCTOR CABLE ASSEMBLIES DESIGNED FOR OPERATION WITH VSD'S.

B. PROVIDE ALL POWER CONNECTION INCLUDING WIRING ASSOCIATED WITH ANY ISOLATION TRANSFORMER DISCONNECT REACTORS, FILTERS, AND ANY ACCESSORIES. INCLUDE POWER WIRING FROM THE VSD TO THE MOTOR, AS WELL AS ALL GROUNDING CONNECTIONS.

C. WHERE IT IS NOT POSSIBLE TO INSTALL MOTORS WITHIN THE SIGHT OF THE VSD PROVIDE A DISCONNECT SWITCH AT THE MOTOR AS REQUIRED BY THE NEC OR REQUIRED BY THE SPECIFICATIONS. PROVIDE AN INTERLOCKING CONNECTION BETWEEN THE DISCONNECT AT THE MOTOR AND THE VSD TO PREVENT THE VFC FROM OPERATING IN A NO LOAD SITUATION.

D. ALL CONNECTIONS TO THE VSD SHALL BE WITH A MINIMUM 18 INCHES OF SEAL TIGHT FLEXIBLE CONDUIT, ALLOWING FOR EASE OF MAINTENANCE.

E. PROVIDE SEPARATE GROUNDING CONDUCTOR TO THE VSD AND BETWEEN THE VSD AND THE MOTOR IN ADDITION TO THE CONDUIT SYSTEM.

F. PROVIDE INTEGRAL OVERCURRENT PROTECTION DEVICE WITH VSDs. REFER TO VSD SPECIFICATION.

G. WHERE TYPE MI CONDUCTORS ARE INDICATED, ALTERNATE 2 HOUR FIRE RATED INSTALLATION METHODS MAY BE ACCEPTABLE. THESE METHODS INCLUDE 2-HOUR ENCLOSURE, MINIMUM.

H. EQUIPMENT INFORMATION IN SCHEDULE IN BASED ON DESIGN EQUIPMENT. FINAL REQUIREMENTS TO BE COORDINATED WITH EQUIPMENT PROVIDED BY DIVISION 22, 23 AND 26.

I. WIRE SIZE IS BASED ON MCA REQUIREMENTS OF EQUIPMENT WITHOUT CONSIDERATION FOR VOLTAGE DROP BASED ON INSTALLED WIRE LENGTHS.


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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics / AV | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

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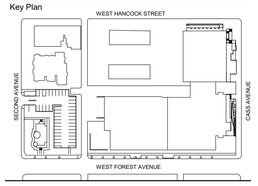
Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ELECTRICAL MECHANICAL COORDINATION SCHEDULES

Project Number: 3995-001-00

Drawn By: BGUTIERREZ

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# EM8.1

BIM 360://WSU Hilberry Gateway/E18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
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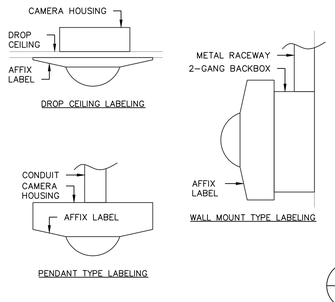



NOTES:

1. INSTALL INSTALL A SELF-ADHESIVE, LASER PRINTER LABEL TO THE CAMERA THAT IS VISIBLE FROM BELOW THE DROP CEILING.
2. LABEL SHALL BE OF STRONG ADHESIVE TO ATTACH TO CAMERA HOUSING. LABEL SHALL MATCH THE CAMERA NUMBER IN THE SOFTWARE.
3. DEMONSTRATE TO THE DESIGNER THE LABEL AND WHERE THE LABEL WILL BE AFFIXED TO EACH CAMERA PRIOR TO INSTALLATION. AFFIX A LABEL TO EACH CAMERA

ADHESIVE CAMERA LABEL:

XX = BUILDING NAME
DDD = CAMERA NUMBER

XX-DDD

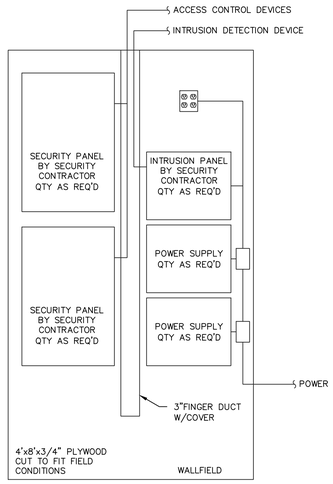
5 / TC501 — CAMERA LABELING
VISIBLE PORTION OF THE BUILDING

WALLFIELD NOTES:

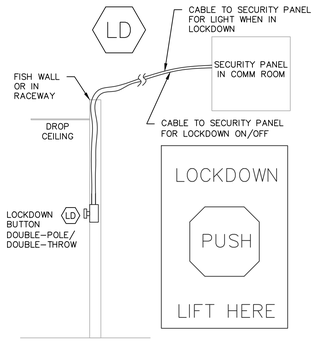
1. PLYWOOD SHALL BE INSTALLED ON THE WALL SHOWN IF SHOWN ON THIS DETAIL.
2. PLYWOOD SHALL BE FIREPROOF & PAINTED WITH WITH PAINT.
3. WHERE REQUIRED THE CONTRACTOR SHALL INSTALL FINGER DUCT TO ROUTE CABLES HORIZONTALLY & VERTICALLY ALONG THE WALLFIELD.
4. CONNECT ALL NEWLY INSTALLED EQUIPMENT TO THE EXISTING GROUND BAR AS DESCRIBED IN THE GROUNDING DETAIL & THE GROUNDING SPECIFICATIONS.

CABLE INSTALL NOTES:

1. ALL CABLES SHALL ROUTE IN THE CEILING & THEN ROUTE DOWN FINGER DUCT OR IN "D" RINGS, PROVIDE A "DRIP LOOP" FOR ALL CABLES. DRIP LOOP SHALL BE A MINIMUM OF ONE FOOT.



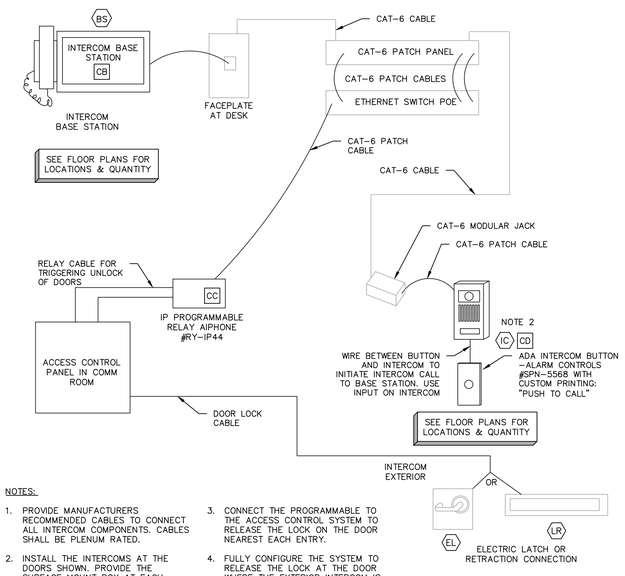

2 / TC501 — TYPICAL SECURITY WALLFIELD




NOTES:

1. INSTALL A LOCKDOWN BUTTON ON THE WALL IN THE SCHOOL OFFICE. BUTTON SHALL HAVE A PROTECTIVE GUARD THAT PREVENTS ACCIDENTAL PUSHING OF THE BUTTON
2. WHEN BUTTON IS DEPRESSED THE SECURITY PANEL SHALL INITIATE A SERIES OF EVENTS INCLUDING LOCKING ALL DOORS AND OTHER TASKS AS REQUIRED BY THE OWNER.
3. WHEN THE BUTTON IS RESET TO ITS ORIGINAL POSITION THE SECURITY SYSTEM SHALL BE RESET TO ITS REGULAR SCHEDULE.
4. CONTRACTOR SHALL SUPPLY PLENUM CABLING AND SHALL PROVIDE ALL PANELS AND CONFIGURATION REQUIRED FOR INSTALLATION AND CONNECTION OF LOCKDOWN BUTTON AND STROBE LIGHT.
5. WHEN PUSHED TO LOCKDOWN THE LIGHT SHALL BE LIT RED. WHEN PUSHED AGAIN OR PULLED OUT THE LIGHT SHALL BE OFF

3 / TC501 — LOCKDOWN BUTTON CONNECTIVITY
ACCESS CONTROL PANEL




NOTES:

1. PROVIDE MANUFACTURERS RECOMMENDED CABLES TO CONNECT ALL INTERCOM COMPONENTS. CABLES SHALL BE PLENUM RATED.
2. INSTALL THE INTERCOMS AT THE DOORS SHOWN. PROVIDE THE SURFACE MOUNT BOX AT EACH ENTRY LOCATION.
3. CONNECT THE PROGRAMMABLE TO THE ACCESS CONTROL SYSTEM TO RELEASE THE LOCK ON THE DOOR NEAREST EACH ENTRY.
4. FULLY CONFIGURE THE SYSTEM TO RELEASE THE LOCK AT THE DOOR WHERE THE EXTERIOR INTERCOM IS LOCATED.

4 / TC501 — ENTRY DOOR
INTERCOM CONNECTIVITY DIAGRAM

NO SCALE

## ACCESS CONTROL EQUIPMENT SCHEDULE

| MARK | DESCRIPTION | MANUFACTURER | PART NO. |
|---|---|---|---|
| CA | ACCESS CONTROL SYSTEM, SOFTWARE AND ASSOCIATED/REQUIRED SERVERS | SEE SPECS | SPECS |
| CB | INTERCOM BASE STATION | AIPHONE | IX-MV7-HW |
| CC | IP PROGRAMMABLE RELAY | AIPHONE | RY-IP44 |
| CD | INTERCOM -SURFACE MOUNT. EQUIP WITH CUSTOM BACKBOX AND PUSHBUTTON BELOW. CUSTOM WIRE TO SUPPORT ADA APPROVED CALL BUTTON HEIGHT | AIPHONE /ALARM CONTROLS | IX-DV |
| CE | BADGE PRINTER | SEE SPECS | SEE SPECS |
| CF | BADGE ENROLLMENT PC AND CAMERA | SEE SPECS | SEE SPECS |
| CG | BLUE LIGHT/EMERGENCY PHONE | SEE SPECS | SEE SPECS |

## VIDEO SECURITY EQUIPMENT SCHEDULE

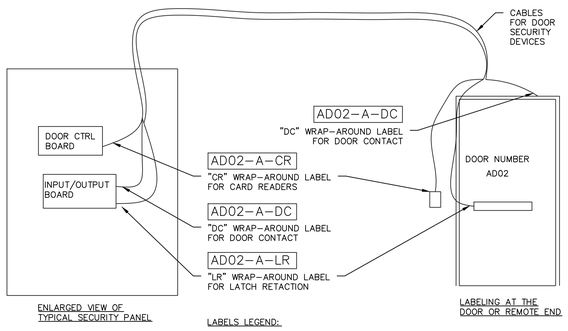
| MARK | DESCRIPTION | MANUFACTURER | PART NO. |
|---|---|---|---|
| SA | HDTV 1080P FIXED MINI DOME WITH HDMI | AXIS | M3045-V |
| SB | MULTI-MEGAPIXEL FIXED MINI DOME WITH HDMI AND WIDE VIEW | AXIS | M3046-V 1.8MM |
| SC | STREAMLINED, OUTDOOR-READY HDTV 1080P FIXED DOME FOR ANY LIGHT CONDITIONS | AXIS | P3225-LVE MKII |
| SD | STREAMLINED, OUTDOOR-READY 5 MP FIXED DOME FOR ANY LIGHT CONDITIONS | AXIS | P3227-LVE |
| SE | 8 MP MULTIDIRECTIONAL CAMERA WITH IR FOR 360 DEGREES COVERAGE | AXIS | P3717-PLE |
| SF | FIXED DOME FOR SOLID PERFORMANCE IN HDTV 1080P | AXIS | Q3515-LV |
| SG | FULL 360 DEGREES OVERVIEW WITH ONE-CLICK PTZ CONTROL | AXIS | Q6000-E |
| SH | HIGH-SPEED PTZ WITH INSTANT LASER FOCUS | AXIS | Q6155-E |

## COMMUNICATION SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| A | EQUIPMENT SCHEDULE, SEE DETAILS AND EQUIPMENT SCHEDULES ON TC101 ETC. |
| 1 | CABLE SCHEDULE, SEE COMMUNICATIONS CABLE SCHEDULE |
| XX | SECURITY DEVICES/RACEWAYS. SEE DETAIL DRAWINGS. |
| 1 | KEYNOTES. REFER TO NOTES ON THE SHEET FOR ADDITIONAL INFORMATION |
| | SECURITY CAMERA, SEE SECURITY ONE-LINE DIAGRAM |

## ABBREVIATIONS

| ABBREV. | DESCRIPTION | ABBREV. | DESCRIPTION |
|---|---|---|---|
| 2G | TWO-GANG BOX - PROVIDED BY EC | NIC | NOT IN CONTRACT |
| AC | ABOVE COUNTER - INSTALL BACKBOX SAME HEIGHT AS OTHER ELECTRICAL OUTLETS ABOVE THE COUNTER. | PBO | PROVIDED BY OTHERS |
| AFF | ABOVE FINISHED FLOOR | PCO-1 | PATCH CORD ORGANIZER - 1 UNIT HIGH |
| AFG | ABOVE FINISHED GROUND | PCO-2 | PATCH CORD ORGANIZER - 2 UNITS HIGH |
| AWG | AMERICAN WIRE GAUGE | PET | PROTECTED ENTRANCE TERMINAL |
| EMT | EMT TYPE CONDUIT | QTY | QUANTITY |
| EC | ELECTRICAL CONTRACTOR | | |




LABELS LEGEND:

AD02 = DOOR NUMBER AS SHOWN ON DRAWINGS
A = COMM ROOM WHERE PANEL RESIDES
LR = TWO LETTER DESIGNATION FOR DEVICE THAT THE CABLE CONNECTS TO.

NOTES:

1. INSTALL A WRAP-AROUND LABEL AT EACH END OF EACH CABLE.
2. WRAP-AROUND LABELS SHALL BE LASER-PRINTED AND BE SELF-LAMINATING.
3. AT THE PANEL THE CABLE SHALL BE LABELED AS IT CONNECTS TO THE PANEL. LABEL INDIVIDUAL SHEATHED CABLES IN A MULTI-SERVICE CABLE.
4. AT THE DOOR INSTALL THE LABEL AT THE DEVICE WHERE IT IS CONNECTED.

1 / TC501 — TYPICAL ACCESS CONTROL
CABLE LABELING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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 2016034.00

Drawing Title
SECURITY LEGENDS, SCHEDULES & DETAILS

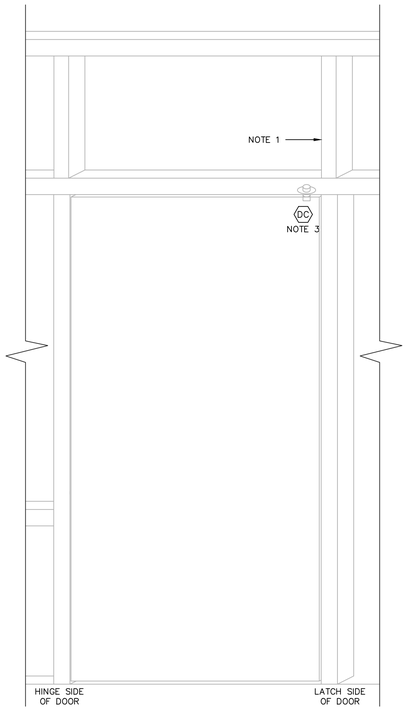
Project Number: 3995-001-00
Drawn By: IBB
Scale: AS INDICATED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

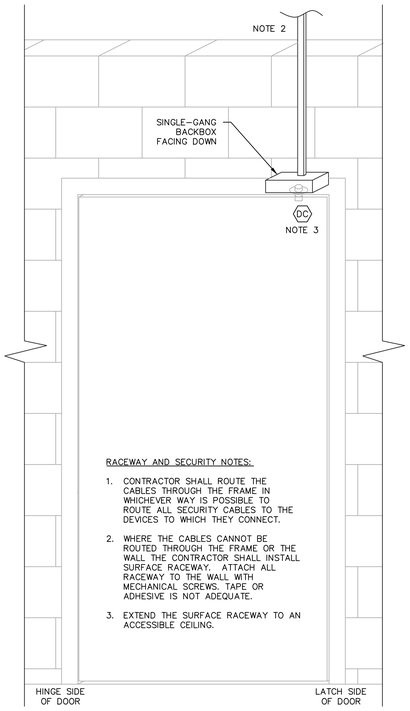
Signature:

Drawing No:
TC501

Sheet Size: 30" x 42"
: Template Version




DOOR IN A GLASS WALL WITH ALUMINUM FRAMES



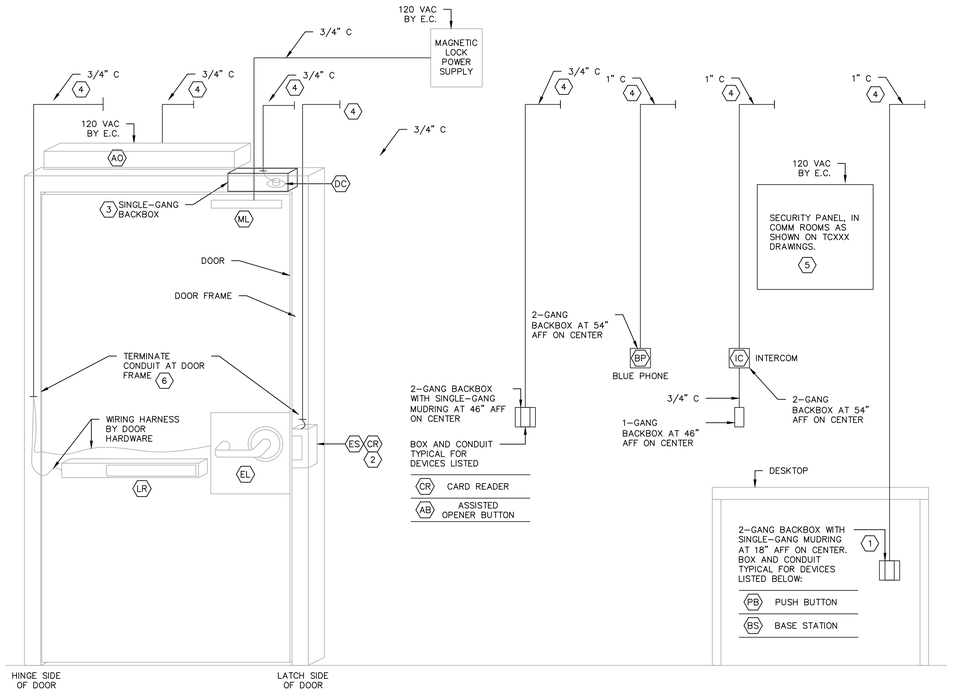

DOOR IN A CONCRETE OR DRYWALL WALL

RACEWAY AND SECURITY NOTES:

1. CONTRACTOR SHALL ROUTE THE CABLES THROUGH THE FRAME IN WHICHEVER WAY IS POSSIBLE TO ROUTE ALL SECURITY CABLES TO THE DEVICES TO WHICH THEY CONNECT.
2. WHERE THE CABLES CANNOT BE ROUTED THROUGH THE FRAME OR THE WALL THE CONTRACTOR SHALL INSTALL SURFACE RACEWAY. ATTACH ALL RACEWAY TO THE WALL WITH MECHANICAL SCREWS. TAPE OR ADHESIVE IS NOT ADEQUATE.
3. EXTEND THE SURFACE RACEWAY TO AN ACCESSIBLE CEILING.

3 / TC502 EXISTING DOOR SECURITY RACEWAY DETAIL

NO SCALE




## ACCESS CONTROL SYSTEM DETAILS

| | |
|---|---|
| CR | CARD READER – PROXIMITY DEVICE BESIDE A DOOR. PROVIDE BACKBOX AND CONDUIT. WHERE NOTED TO BE INSTALLED ON DOOR FRAME INSTALL CONDUIT TO DOOR FRAME |
| EL | ELECTRIFIED LATCH – LOCK MECHANISM AT DOOR HANDLE. INSTALL CONDUIT TO DOOR HINGE. |
| LR | LATCH RETRACTION DEVICE – LOCK MECHANISM INSIDE PUSHBAR OF DOOR. INSTALL CONDUIT TO DOOR HINGE. |
| ES | ELECTRIC STRIKE – ELECTRONIC LOCKING DEVICE IN DOOR FRAME AT LATCH. INSTALL CONDUIT TO DOOR LATCH |
| ML | MAGNETIC LOCK: LOCK AT HEADER OF DOOR. INSTALL CONDUIT FROM LOCK TO CEILING FOR POWER TO LOCAL POWER SUPPLY |
| IC | INTERCOM – DEVICE FOR AUDIO AND VIDEO CONNECTION TO UNSECURE SIDE OF DOOR. INSTALL CONDUITS AND BACKBOX. |
| BS | INTERCOM BASE SYSTEM – DEVICE FOR AUDIO AND VIDEO CONNECTION AT DESK. INSTALL CONDUITS AND BACKBOX TO UNDERSIDE OF DESK |
| PB | PUSH BUTTON – BUTTON AT DESK TO TRIGGER AN EVENT INSTALL CONDUIT AN BACKBOX BELOW DESK |
| AO | ASSISTED OPENER – THIS MECHANICALLY OPENS A DOOR. CONDUIT FROM OPENER TO CEILING. |
| AB | ASSISTED OPENER BUTTON– BUTTON TO TRIGGER ASSISTED OPENER. INSTALL CONDUIT AND BACKBOX |
| DC | DOOR CONTACT – INSTALLED AT TOP OF DOOR FRAME ABOVE DOOR. INSTALL BACKBOX AT DOOR FRAME AND CONDUIT TO CEILING. |
| BP | BLUE PHONE – SEE COMMUNICATION TECHNOLOGY PLANS |

GENERAL NOTES:

1. INSTALL RACEWAYS AND BACKBOXES AT DOORS AND DESKS FOR CONNECTION OF SECURITY AND ALARM DEVICES.
2. CONDUIT INSTALLER SHALL WORK WITH DOOR INSTALLER, DOOR HARDWARE CONTRACTOR AND SECURITY CONTRACTOR WHEN INSTALLING CONDUITS.

KEYED NOTES:

1. ONLY ONE CONDUIT AND BACKBOX IS REQUIRED WHERE THESE DEVICES ARE INSTALLED AT THE SAME DESK
2. WHEN THE "CR" IS SHOWN AS BEING ON A DOOR FRAME, DO NOT INSTALL A BACKBOX. INSTALL CONDUIT INTO THE DOOR FRAME
3. INSTALL BACKBOX FACING DOWN AT HEADER OF DOOR FOR DC AND RX. INSTALL CONDUIT TO CEILING AREA.
4. INSTALL A CONDUIT TO AN ACCESSIBLE CEILING AREA.
5. ACCESS CONTROL PANEL WILL BE INSTALLED IN THE COMM ROOM. PROVIDE POWER TO THE PANEL
6. COORDINATE LENGTH AND TERMINATION POINT OF CONDUIT WITH THE DOOR HARDWARE AND DOOR INSTALLER.

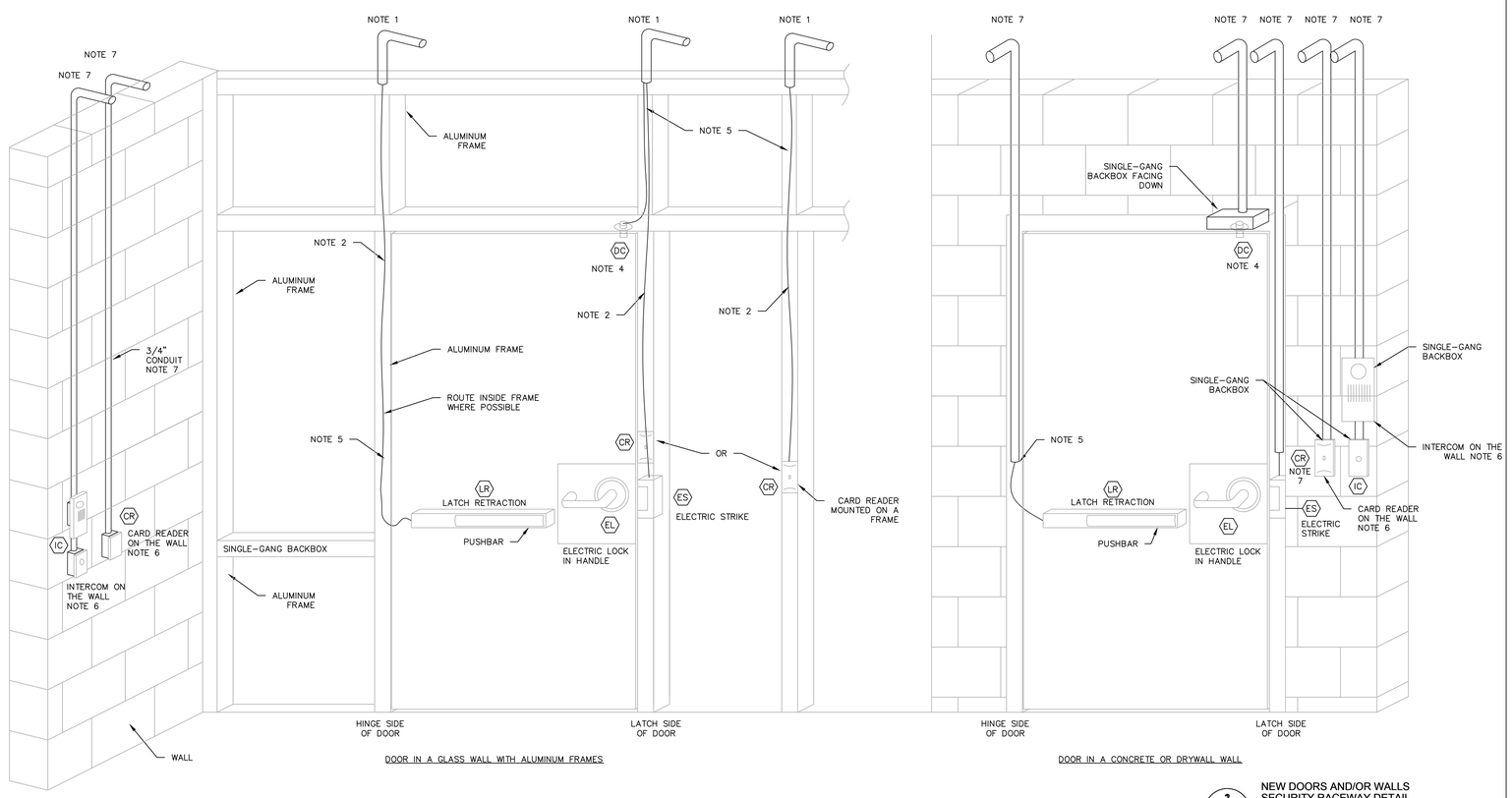
1 / TC502 ACCESS CONTROL RACEWAY DETAIL

RACEWAY NOTES:

1. INSTALL A CONDUIT FROM AN ACCESSIBLE CEILING OR WALL TO THE FRAME. ROUTE THE PULLSTRINGS THROUGH THE FRAME TO THE DOOR. INSTALL A GROMMET ON THE END OF THE CONDUIT.
2. ROUTE THE PULL STRINGS THROUGH THE FRAME IN WHICHEVER WAY IS POSSIBLE TO THE DEVICE LOCATION SHOWN.
3. NOT BEING USED.
4. WHERE A DOOR CONTACT IS SHOWN THE CONTRACTOR SHALL INSTALL THE CONDUIT AND BACKBOX AND PULLSTRING. IN ALUMINUM FRAMES THE CONDUIT SHALL BE INSTALLED TO THE FRAME. INSTALL A PULLSTRING TO THE DC LOCATION.
5. WHERE A LATCH RETRACTION (LR), ELECTRIC LATCH (EL), OR REQUEST TO EXIT (RX) DEVICE IS INSTALLED THE CONTRACTOR SHALL INSTALL A CONDUIT TO THE HINGE SIDE OF THE DOOR OR A CONDUIT TO THE FRAME AND THEN A PULLSTRING TO THE HINGE SIDE OF THE DOOR AT END OF CONDUIT.
6. WHERE THE DEVICE IS ON THE WALL NEXT TO THE DOOR THE CONTRACTOR SHALL INSTALL THE BACKBOX AND CONDUIT. IN A FRAME THE CONDUIT SHALL STUB INTO THE FRAME. INSTALL A PULLSTRING TO THE (CR) LOCATION.
7. INSTALL THE CONDUIT IN THE WALL AND EXTEND TO AN ACCESSIBLE CEILING. INSTALL A GROMMET ON THE END OF THE CONDUIT.

SECURITY NOTES:

A. SECURITY CONTRACTOR SHALL ROUTE THE CABLES THROUGH THE FRAME IN WHICHEVER WAY IS POSSIBLE TO ROUTE ALL SECURITY CABLES TO THE DEVICES TO WHICH THEY CONNECT.
B. SECURITY CONTRACTOR SHALL ROUTE THE CABLES THROUGH THE SURFACE RACEWAY TO ROUTE ALL SECURITY CABLES TO THE DEVICES TO WHICH THEY CONNECT.
C. WHERE A REQUEST TO EXIT "MX" OR DOOR CONTACT "DC" IS TO BE INSTALLED THE CONTRACTOR SHALL ROUTE THE CABLES THROUGH THE FRAME OR A SURFACE MOUNTED RACEWAY. THE MX AND DC SHALL BE ABOVE THE DOOR.




DOOR IN A GLASS WALL WITH ALUMINUM FRAMES

DOOR IN A CONCRETE OR DRYWALL WALL

2 / TC502 NEW DOORS AND/OR WALLS SECURITY RACEWAY DETAIL

NO SCALE

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 2016034.00

Drawing Title
ACCESS CONTROL RACEWAY DETAILS

Project Number: 3995-001-00
Drawn By: IBB
Scale: AS INDICATED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TC502

Sheet Size: 30" x 42"
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# ACCESS CONTROL SYSTEM DETAILS

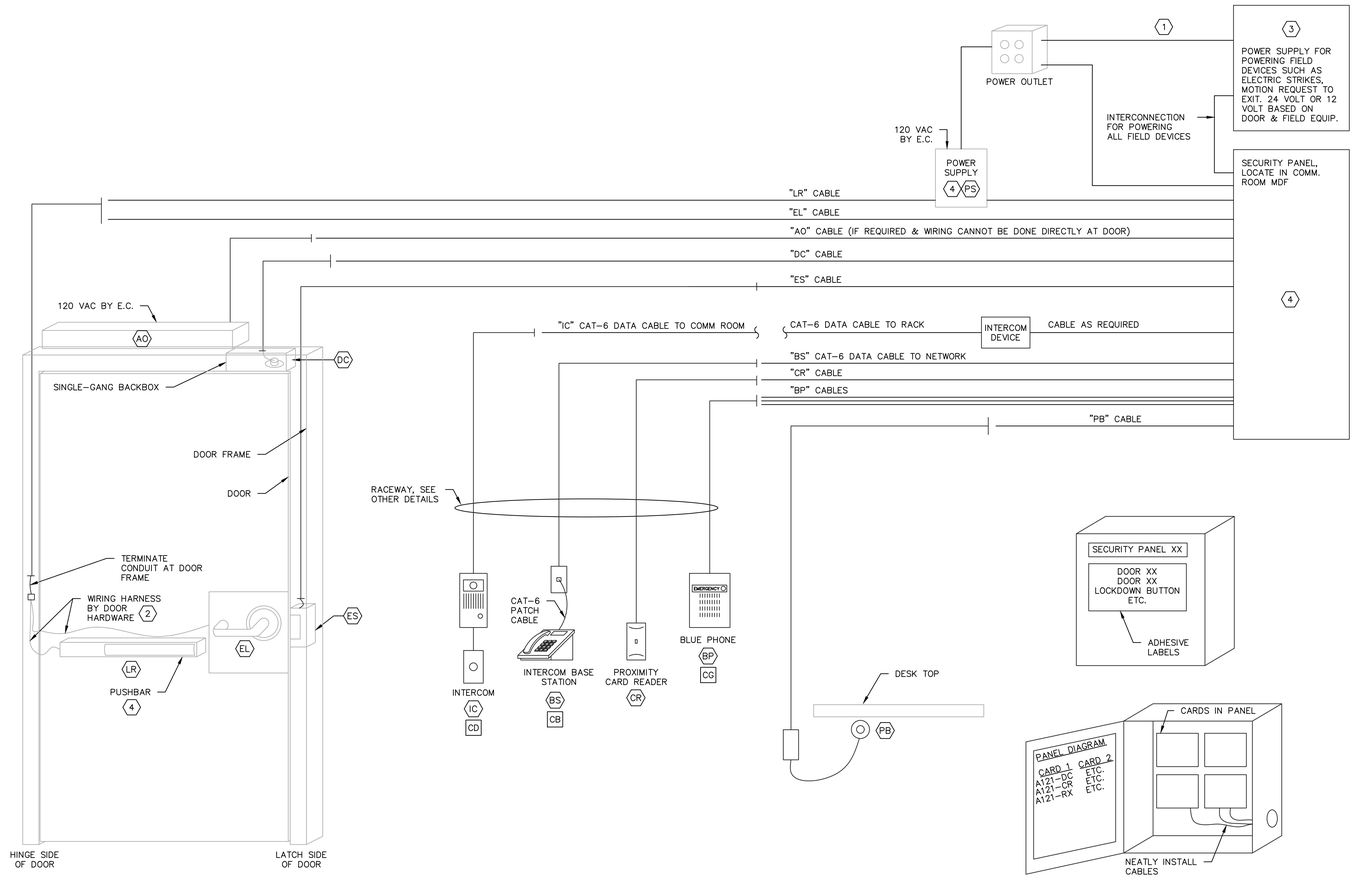
| | |
|---|---|
| CR | CARD READER – INSTALL TO THE BACKBOX OR IN THE DOOR FRAME. COORDINATE IN FIELD PRIOR TO ORDERING. WIRE TO SECURITY SYSTEM |
| EL | ELECTRIFIED LATCH – DEVICE IS IN THE DOOR, PROVIDED BY DOOR CONTRACTOR. WIRE THROUGH THE DOOR, THROUGH THE HINGE AND TO THE SECURITY PANEL |
| LR | LATCH RETRACTION DEVICE – THIS DEVICE IS AN ELECTRONIC PUSHBAR ON THE SECURE SIDE OF THE DOOR. WIRE FROM THIS DEVICE, THROUGH THE DOOR HINGETO THE POWER SUPPLY IN THE CEILING. POWER SUPPLY IS BY DOOR CONTRACTOR. |
| ES | ELECTRIC STRIKE – STRIKE IS PROVIDED AND INSTALLED BY DOOR CONTRACTOR. WIRE FROM THIS DEVICE TO SECURITY PANEL. PROVIDE POWER SUPPLY IN COMM ROOM. |
| ML | MAGNETIC LOCK: THE LOCK SHALL BE PROVIDED BY THE DOOR HARDWARE SUPPLIER. WIRE FROM THIS DEVICE TO THE ACCESS CONTROL PANEL FOR CONTROL OF LOCKING AND UNLOCKING |
| IC | INTERCOM – INSTALL TO THE BOX OR SURFACE MOUNT TO THE WALL. WIRE TO THE COMM ROOM VIA CAT–6 CABLE. |
| BS | INTERCOM BASE SYSTEM – THIS DEVICE SHALL BE INSTALLED AT THE RECEPTION DESK. WIRE TO COMM ROOM VIA CAT–6 CABLE. |
| PB | PUSH BUTTON – THIS SHALL TRIGGER A SINGLE EVENT OR SERIES OF EVENTS IN THE SECURITY SYSTEM WHEN DEPRESSED. BELOW DESK, WIRE TO SECURITY PANEL. |
| AO | ASSISTED OPENER – THIS MECHANICALLY OPENS A DOOR. IT IS INSTALLED BY THE DOOR HARDWARE CONTRACTOR. COORDINATE LOCKS AND ALARMS WITH THIS OPENER AND ASSOCIATED OPENER BUTTONS. |
| AB | ASSISTED OPENER BUTTON– THIS BUTTON IS BY THE DOOR CONTRACTOR. IT IS NOTED FOR LOCATION. NO WORK REQUIRED. |
| PS | POWER SUPPLY – THE POWER SUPPLY IS PROVIDED BY THE DOOR HARDWARE SUPPLIER. CONTRACTOR SHALL WIRE FROM THE POWER SUPPLY TO THE LATCH RETRACTION DEVICE. INSTALL CABLE AND CONNECT THE POWER SUPPLY TO THE SECURITY SYSTEM |
| DC | DOOR CONTACT – MOUNT ABOVE THE DOOR. WIRE TO SECURITY SYSTEM/INTRUSION DETECTION SYSTEM TO TRIGGER AN ALARM |
| MS | MOTION SENSOR, WIDE ANGLE – MOUNT IN THE CEILING AND SET IT TO COVER A LARGE AREA. WIRE TO THE SECURITY SYSTEM/INTRUSION DETECTION SYSTEM TO TRIGGER AN ALARM IF THE SYSTEM IS ARMED. |
| MT | MOTION SENSOR, LONG THROW – MOUNT IN THE CEILING AND SET IT TO COVER A LONG HALLWAY. WIRE TO THE SECURITY SYSTEM/INTRUSION DETECTION SYSTEM TO TRIGGER AN ALARM IF THE SYSTEM IS ARMED. |
| BP | BLUE LIGHT/EMERGENCY PHONE. MOUNT ON WALL OR POLE. A TOTAL OF THREE (3) CAT–6 CABLES ARE NEEDED FOR THE PHONE CONNECTION. |

KEYED NOTES:

1. CONTRACTOR SHALL EXTEND POWER FROM EXISTING OUTLET TO THE POWER SUPPLIES ON THE WALL. PROVIDE ALL RACEWAY AND WIRING FOR EXTENSION OF POWER.
2. FOR AN EL OR LR DEVICE THE DOOR HARDWARE SUPPLIER WILL PROVIDE A WIRING HARNESS FROM THE LOCK THROUGH THE HINGE AND INTO THE DOOR FRAME. SECURITY CONTRACTOR TO WIRE FROM PANEL OR POWER SUPPLY TO THE WIRING HARNESS.
3. PROVIDE A POWER SUPPLY TO SUPPORT THE ACCESS CONTROL PANEL AND FIELD DEVICES. WIRE TO THE PANEL AND 120 VOLT POWER.
4. POWER SUPPLY/CONTROLLER FOR LATCH RETRACTION DEVICES IS PROVIDED BY THE DOOR HARDWARE CONTRACTOR. CONNECTED TO 120VAC BY ELECTRICIAN. WIRE FROM THIS TO THE LR IN DOOR AND TO THE SECURITY PANELS.

GENERAL NOTES:

1. REFER TO THE PLAN DRAWINGS FOR THE SPECIFIC FIELD DEVICE AND WHERE IT IS TO BE INSTALLED.
2. AT SOME LOCATIONS THE CARD READER WILL HAVE TO BE INSTALLED INTO THE DOOR FRAME. PROVIDE A FRAME TYPE READER AT THESE LOCATIONS.
3. ALL SECURITY DEVICES SHALL BE WIRED DIRECTLY BACK TO THE SECURITY SYSTEM PANELS. LOCATE PANELS ON THE WALLS OF COMMUNICATIONS ROOMS OR AS SHOWN ON THE FLOOR PLANS.
4. PROVIDE ALL SECURITY CABLES AND ALL SECURITY PANELS REQUIRED FOR CONNECTIVITY OF THE SYSTEM.
5. CONNECT THE FIRE ALARM SYSTEM TO THE ACCESS CONTROL SYSTEM TO UNLOCK ONE OR MORE DOORS AND RELEASE ANY HOLD OPENS IN CASE OF A FIRE ALARM.
6. LABEL THE OUTSIDE OF THE PANEL FOR THE DOORS AND DEVICES THAT ARE CONNECTED INSIDE THE PANEL. PROVIDE A PANEL DIAGRAM INSIDE THE PANEL THAT SHOWS THE CARDS AND WHAT IS CONNECTED TO EACH PORT ON THE CARDS.

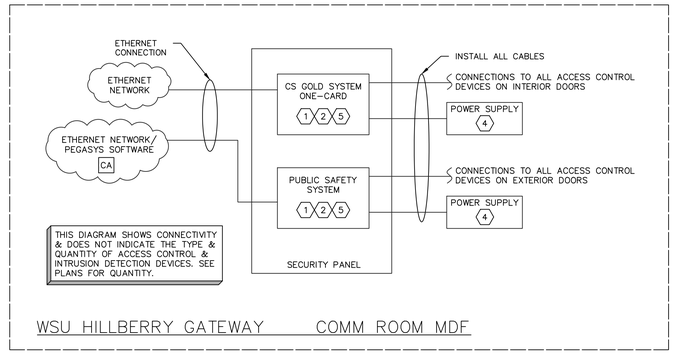



TYPICAL ACCESS CONTROL PANEL LABELING

1 / TC503 DOOR HARDWARE & SECURITY EQUIPMENT CONNECTIVITY REQUIREMENTS

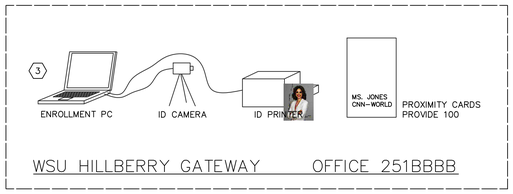
CONNECTIVITY NOTES:

1. THERE ARE A FEW EXISTING DOORS THAT HAVE ELECTRIC STRIKES AND CARD READERS. CONTRACTOR SHALL REWIRE THESE TO THE NEW PANELS. PROVIDE A NEW SERVER FOR THE DATABASE. INSTALL AND CONFIGURE.
2. PROVIDE THE QUANTITY OF EACH ITEM AS SHOWN ON THE DRAWINGS.
3. THE COMMUNICATIONS CONTRACTOR SHALL WORK WITH THE OWNER TO CONFIGURE THE SYSTEM TO MEET THE OWNERS REQUIREMENTS.
4. CABLES FOR CONNECTION FROM THE ACCESS CONTROL PANELS SHALL BE PLENUM RATED.
5. CONTRACTOR SHALL PROVIDE ALL CABLING FOR CONNECTION OF NEW SECURITY DEVICES. THE CABLES SHALL BE THE SAME COLOR. COORDINATE CABLE COLOR WITH OTHER CONTRACTORS SO THAT THE SECURITY CABLES ARE A UNIQUE COLOR.
6. ALL CABLES SHALL BE LABELED AT EACH END. LABEL THEM WITH THE DOOR NUMBER AND THEN FOR THE DEVICE TO WHICH THEY CONNECT. IN EXAMPLE: P124–DC.
7. THE CONTRACTOR SHALL INCLUDE SUFFICIENT TIME INTO THE PROJECT TO CUSTOM CONFIGURE THE ACCESS CONTROL SYSTEM TO INTERFACE AND CONTROL EACH SYSTEM SHOWN ON THE DIAGRAM AND DESCRIBED IN THE SPECIFICATIONS.




KEYED NOTES:

1. ACCESS CONTROL PANELS SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS. CONNECT ALL DEVICES TO THESE PANELS. ALSO PROVIDE CABLING TO CONNECT THE PANELS TO THE ETHERNET SWITCHES IN THE RACKS.
2. WHERE MORE THAN ONE PANEL IS AT THE SAME LOCATION, THE CONTRACTOR CAN CONNECT ONE PANEL TO THE ETHERNET NETWORK AND CONNECT THE OTHER PANELS TO THE ETHERNET CONNECTED PANEL.
3. PROVIDE AND INSTALL THE PHOTO BADGING DEVICES INCLUDING THE CARD PRINTER AND CAMERA.
4. THE CONTRACTOR SHALL PROVIDE A POWER SUPPLY IN THE COMMUNICATIONS ROOM TO POWER ALL THE DOOR HARDWARE EXCEPT THE LATCH RETRACTION DEVICES. THE "LR" DEVICES ARE POWERED LOCALLY. CONNECT THE POWER SUPPLY TO ALL DOOR HARDWARE DEVICES THAT REQUIRE POWER.
5. THERE WILL BE PANELS IN ONE OR MORE COMMUNICATIONS ROOMS IN EACH BUILDING. SEE THE FLOORPLANS FOR SUGGESTED PANEL LOCATIONS. INSTALL PANELS AS NOTED AND AS REQUIRED. CONNECT TO THE DATA NETWORK IN EACH COMM ROOM.




2 / TC503 ACCESS CONTROL DIAGRAM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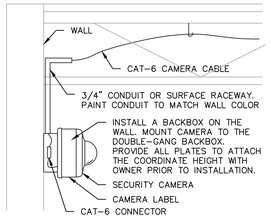



WALL MOUNT AT SOMEWHAT ACCESSIBLE CEILING

WALL/CEILING MOUNT – FIXED CEILING

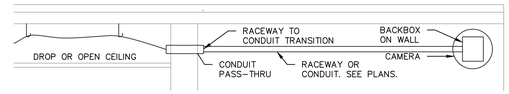
C

TYPICAL INSTALLATION FOR INTERIOR CAMERA ON A WALL

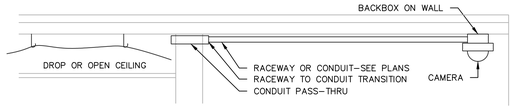
NOTES

1. INSTALL CAMERAS ON THE WALL. PROVIDE THE RACEWAY AND BACKBOX.
2. SEE SPECS AND DRAWINGS FOR INFORMATION ABOUT WHO INSTALLS CAT-6 CABLE FROM COMM ROOM TO CAMERA LOCATION.
3. SECURITY CONTRACTOR SHALL INSTALL THE PATCH CABLE FROM CAT-6 CONNECTOR TO CAMERA. SHALL BE PLENUM RATED.
4. INSTALL A LABEL ON THE CAMERA THAT IS VISIBLE FROM BELOW THE DROP CEILING.

WALL MOUNT AT FIXED CEILING




CEILING MOUNT ON FIXED CEILING




5 TC504 TYPICAL INTERIOR WALL/CEILING MOUNT CAMERA INSTALLATION

NOT TO SCALE

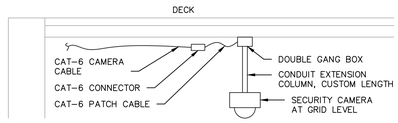
NOTES:

1. INSTALL CAMERA IN A PENDANT MOUNT SUPPORTED BY CONDUIT TO THE DECK.
2. SEE SPECS & DRAWINGS FOR INFORMATION ABOUT WHO INSTALLS CAT-6 CABLE FROM COMM ROOM TO CAMERA LOCATION.
3. SECURITY CONTRACTOR SHALL INSTALL THE PATCH CABLE FROM CAT-6 CONNECTOR TO CAMERA. SHALL BE PLENUM RATED.
4. INSTALL A LABEL ON THE CAMERA THAT IS VISIBLE FROM BELOW.

PENDANT MOUNT IN OPEN CEILING

C

TYPICAL INSTALLATION FOR INTERIOR CAMERA IN AN OPEN CEILING PENDANT MOUNT




1 TC504 TYPICAL OPEN-CEILING (PENDANT) CAMERA INSTALLATION

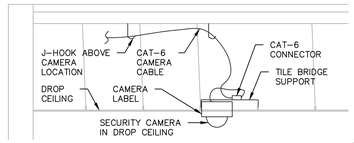
NOTES:

1. INSTALL CAMERAS RECESSED IN DROP CEILING OR DRYWALL CEILING. PROVIDE THE CORRECT MOUNT.
2. SEE SPECS & DRAWINGS FOR INFORMATION ABOUT WHO INSTALLS CAT-6 CABLE FROM COMM ROOM TO CAMERA LOCATION.
3. SECURITY CONTRACTOR SHALL INSTALL THE PATCH CABLE FROM CAT-6 CONNECTOR TO CAMERA. SHALL BE PLENUM RATED.
4. INSTALL A LABEL ON THE CAMERA THAT IS VISIBLE FROM BELOW THE DROP CEILING.

DROP OR FIXED CEILING

C

TYPICAL INSTALLATION FOR INTERIOR CAMERA IN A DROP CEILING OR FIXED CEILING.




2 TC504 TYPICAL DROP-CEILING CAMERA INSTALLATION

NOTES:

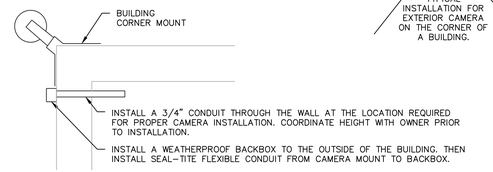
1. INSTALL A CORNER MOUNT AT HEIGHT APPROVED BY OWNER.
2. INSTALL PATCH CABLE FROM CAT-6 CONNECTOR TO CAMERA. SHALL BE PLENUM RATED.
3. ALL CAMERAS SHALL BE INSTALLED WITH SECURE SCREWS.

EXTERIOR CORNER MOUNT

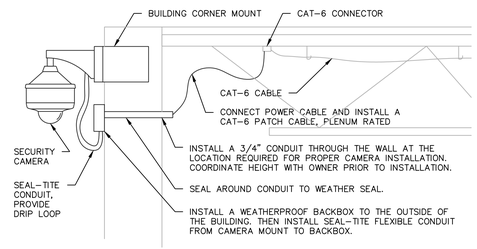
C

TYPICAL INSTALLATION FOR EXTERIOR CAMERA ON THE CORNER OF A BUILDING.

PLAN VIEW




ELEVATION




6 TC504 EXTERIOR CORNER, WALL MOUNT CAMERA INSTALLATION

NOT TO SCALE

NOTES:

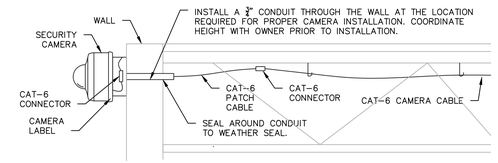
1. INSTALL CAMERAS TO THE EXTERIOR WALL. VERIFY HEIGHT WITH OWNER. INSTALL CONDUIT.
2. SEE SPECS & DRAWINGS FOR INFORMATION ABOUT WHO INSTALLS CAT-6 CABLE FROM COMM ROOM TO CAMERA LOCATION.
3. SECURITY CONTRACTOR SHALL INSTALL THE PATCH CABLE FROM CAT-6 CONNECTOR TO CAMERA. SHALL BE PLENUM RATED.
4. WHERE THE CAMERA LOOKS OUT FROM THE BUILDING INSTALL THE FLAT WALL MOUNT. WHERE THE CAMERA IS SHOWN LOOKING ALONG THE BUILDING THE CONTRACTOR SHALL INSTALL THE PENDANT WALL MOUNT.

EXTERIOR WALL MOUNT

C

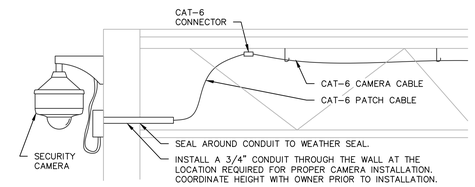
TYPICAL INSTALLATION FOR EXTERIOR CAMERA MOUNTED ON A WALL

FLAT WALL MOUNT




EITHER MOUNT TYPE IS APPROPRIATE. AT LOCATIONS WHERE THE CAMERA IS AIMED TO PROVIDE AN IMAGE ALONG THE EXTERIOR WALL THEN THE SECOND MOUNT TYPE (PENDANT WALL MOUNT) IS PREFERRED.

PENDANT WALL MOUNT

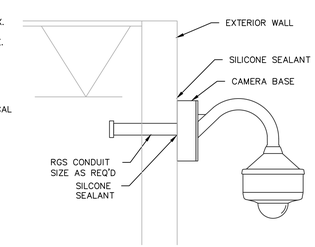



3 TC504 EXTERIOR WALL MOUNT CAMERA DETAILS

NOT TO SCALE

NOTES

1. CORE THROUGH EXTERIOR WALL TO INSTALL A CONDUIT FROM THE INTERIOR TO THE EXTERIOR CAMERA BACKBOX.
2. CONDUIT SHALL BE NO SMALLER THAN 3/4" TRADE SIZE. INSTALL A NYLON GROMMET ON END OF CONDUIT.
3. SEAL AROUND CAMERA BASE WITH CLEAR SILICONE SEALANT. SEAL AROUND CONDUIT ON EXTERIOR WITH SEALANT.
4. ATTACH CAMERA BASE TO THE BUILDING WITH MECHANICAL CONNECTORS.




4 TC504 CAMERA THROUGH WALL RACEWAY & SEALANT DETAIL

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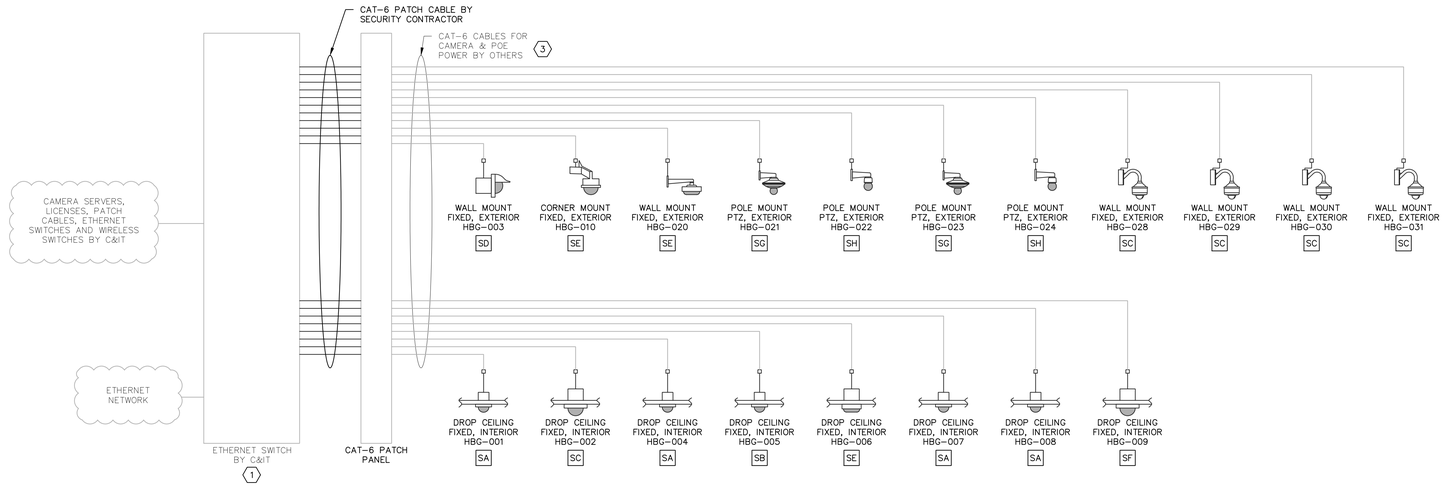
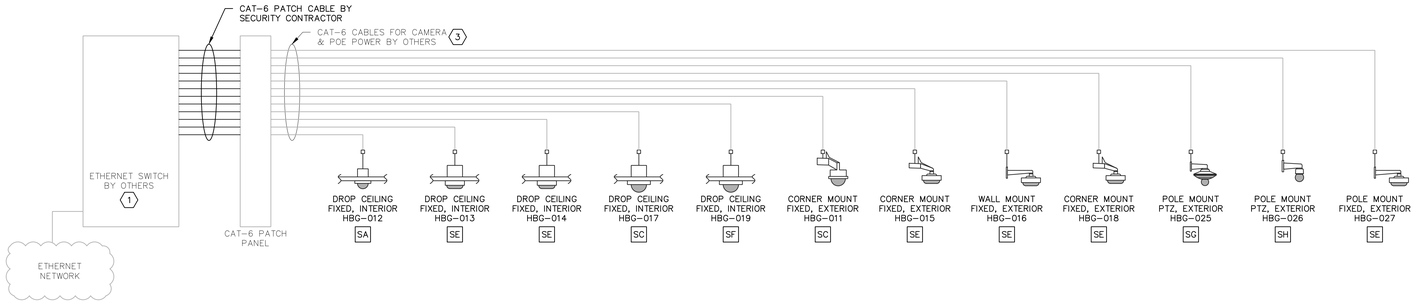



WSU HILLBERRY GATEWAY COMM ROOM – MDF




WSU HILLBERRY GATEWAY COMM ROOM – IDF

GENERAL SECURITY NOTES:

1. CONTRACTOR SHALL PROVIDE ALL PATCH CABLES AT THE CAMERA AND AT THE COMM ROOM.
2. THE CONTRACTOR SHALL SUPPLY ANY & ALL BALUNS, COUPLERS ADAPTERS & CONVERTERS THAT ARE REQUIRED FOR THE INTER-CONNECTION OF ALL THE SECURITY COMPONENTS.
3. THE CAMERA CABLES SHALL TRANSPORT ALL VIDEO SIGNALS & CONTROL SIGNALS & POWER SIGNALS.
4. CONTRACTOR SHALL PROVIDE THE CORRECT CAMERA MOUNT BASED ON CAMERA LOCATION AND STRUCTURE AVAILABLE. PROVIDE RECESSED CAMERA MOUNTS IN DROP CEILINGS.
5. CONTRACTOR SHALL INSTALL AND CONFIGURE REMOTE VIEWING & CONTROL SOFTWARE ON THE FOLLOWING: –(NUMBER (X) MONITOR COMPUTERS PROVIDED AS PART OF THIS BID.
   –(NUMBER (X) OWNER PC'S.
   –(NUMBER (X) WIRELESS TABLES/SMARTPHONES.
6. CONTRACTOR SHALL MEET WITH THE OWNER AND DETAIL ALL THE CAPABILITIES OF THE SYSTEM. THE CONFIGURATION OF THE RECORDER AND CAMERAS SHALL BE BASED ON THESE MEETINGS WITH THE OWNER.
7. WHERE THE CAMERA IS NOT INSTALLED INTO A DROP CEILING THE CONTRACTOR SHALL PROVIDE A MOUNT AND HOUSING. PROVIDE WEATHERPROOF MOUNTS ON EXTERIOR CAMERAS.
8. FOR EXTERIOR CAMERAS, THE CONTRACTOR SHALL PROVIDE A HEATER INSIDE EACH CAMERA MOUNT.
9. CONTRACTOR SHALL PROVIDE THE CORRECT LENS TO EACH CAMERA BASED ON THE INSTALLED LOCATION AND THE OWNERS REQUIREMENTS FOR THE FIELD OF VIEW. WORK WITH THE OWNER DURING INSTALLATION.
10. ALL CAMERAS SHALL CONNECT TO THE IP NETWORK SWITCH IN THE COMMUNICATIONS ROOM. CONTRACTOR SHALL WORK WITH THE OWNER ON CONFIGURATION OF THE ETHERNET SWITCH.
11. NETWORK VIDEO RECORDER(S) (NVR) SHALL BE LOCATED IN THE XXXX BUILDING AND ARE TO BE PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE AND CONFIGURE ALL VMS AND SYSTEM SOFTWARE REQUIRED.

KEYED NOTES:

1. THE DATA NETWORK AND ALL ETHERNET SWITCHES WILL BE PROVIDED BY C&IT. THE SECURITY CONTRACTOR SHALL MEET WITH THE OWNER TO CONFIRM ALL NETWORK SPECIFICATION REQUIREMENTS FOR A VLAN OR OTHER QUALITY OF SERVICE SETTINGS FOR THE CAMERA SYSTEM.
2. PROVIDE ALL PATCH CABLES REQUIRED FOR CONNECTION OF ALL CAMERAS AT THE CAMERA AND AT THE NETWORK SWITCH. ALL PATCH CABLES SHALL BE GREEN IN COLOR.
3. CAT–6 CABLES FROM THE COMM ROOM TO THE CAMERA ARE INSTALLED BY THE CABLING CONTRACTOR. INSTALL PATCH CABLES FROM OUTLET TO CAMERA
4. THE SERVER(S) WILL BE LOCATED IN THE XXXXXXXX BUILDING. CONTRACTOR SHALL LOAD ALL SOFTWARE REQUIRED TO RECORD AND MANAGE ALL CAMERAS THROUGHOUT THE BUILDINGS.
5. PROVIDE A KVM (KEYBOARD/VIDEO/MOUSE) SWITCH/RACK MOUNT MONITOR FOR THE VIDEO SECURITY SYSTEM. CONNECT TO ALL SERVERS PROVIDED AS PART OF THIS PROJECT.

REFER TO THE PLANS FOR CAMERA LOCATIONS

1 / TC505 VIDEO SECURITY DIAGRAM
WSU HILLBERRY GATEWAY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HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave. Detroit, MI 48202


| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 2016034.00

Drawing Title
VIDEO SECURITY ONE-LINE DIAGRAM

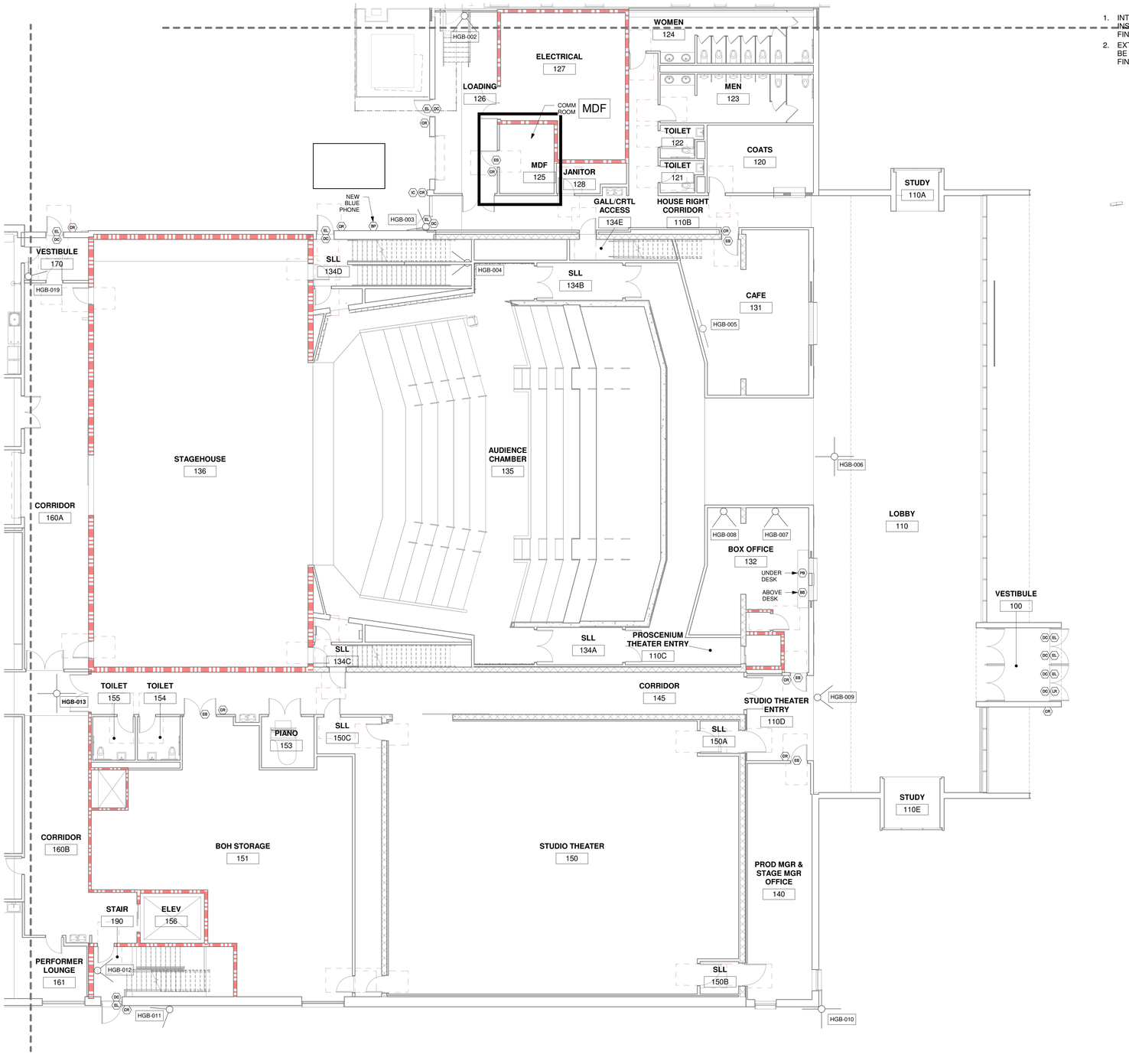
Project Number: 3995-001-00
Drawn By: IBB
Scale: AS INDICATED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TC505

Sheet Size: 30" x 42"
: : Template Version




1 SECURITY PLAN - LEVEL ONE, AREA B
1/8" = 1'-0"

## GENERAL SECURITY NOTES

1. INTERIOR CAMERAS SHALL BE INSTALLED AT 8' ABOVE FINISHED FLOOR.
2. EXTERIOR CAMERAS SHALL BE INSTALLED AT 8' ABOVE FINISHED GROUND.

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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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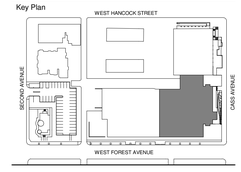
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 2016034.00

Drawing Title

# SECURITY PLAN - LEVEL ONE, AREA B

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature: _____

Drawing No:

# TC902B

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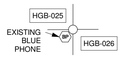
Sheet Size: 30" x 42"
: : Template Version

## GENERAL SECURITY NOTES

1. INTERIOR CAMERAS SHALL BE INSTALLED AT 8' ABOVE FINISHED FLOOR.
2. EXTERIOR CAMERAS SHALL BE INSTALLED AT 8' ABOVE FINISHED GROUND.




1 SECURITY PLAN - LEVEL ONE, AREA C
1/8" = 1'-0"

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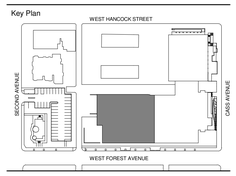
HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

4743 Cass Ave., Detroit, MI 48202

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 2016034.00

Drawing Title
## SECURITY PLAN - LEVEL ONE, AREA C

Project Number: 3995-001-00

Drawn By: Designer

Scale: As indicated

Seal:

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Signature:

Drawing No:

# TC902C

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Sheet Size: 30" x 42"
: Template Version

AUDIO/VIDEO WIRE TYPES

AUDIO/VIDEO SYSTEM WIRING IS DIVIDED INTO GROUPS ACCORDING TO NOMINAL VOLTAGE LEVELS

| | WIRING TYPE |
|---|---|
| GROUP A | MICROPHONE AND OTHER SENSITIVE WIRING (0mV to 100 mV) |
| GROUP B | LINE LEVEL WIRING (100 mV to 10V) |
| GROUP C | LOUDSPEAKER AND CONTROL WIRING (10 V TO 70 V) |
| GROUP D | DATA, VIDEO, CONTROL AND DIGITAL CIRCUITS |
| GROUP E | FIBER OPTIC CABLE |
| GROUP F | SPARE CONDUIT |

NOTE: THESE WIRING GROUPS MUST NEVER BE INTERMIXED WITHIN A GIVEN CONDUIT RUN OR JUNCTION BOX!

AUDIO/VIDEO CONDUIT SEPARATION

MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING WIRING OF DIFFERENT GROUPS IS:

| | GROUP A | GROUP B | GROUP C | GROUP D | GROUP E |
|---|---|---|---|---|---|
| GROUP A | ADJACENT | 6" | 12" | 12" | 12" |
| GROUP B | -- | ADJACENT | 12" | 6" | 6" |
| GROUP C | -- | -- | ADJACENT | 6" | 6" |
| GROUP D | -- | -- | -- | ADJACENT | ADJACENT |
| GROUP E | -- | -- | -- | -- | ADJACENT |
| GROUP F | 12" | 12" | 12" | 12" | 12" |

NOTE: NINETY DEGREE CROSSINGS IN CLOSE PROXIMITY ARE ACCEPTABLE. SEPARATIONS MUST BE MAINTAINED UNTIL WITHIN SIX FEET OF BOX OR GUTTER ENTRY.

ELECTRICAL CONDUIT SEPARATION

MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING AUDIO/VIDEO WIRING AND OTHER ELECTRICAL SERVICE CONDUIT IS:

| | GROUP A | GROUP B | GROUP C | GROUP D | GROUP E | GROUP F |
|---|---|---|---|---|---|---|
| DIMMER CONTROLED LIGHTING | 24" | 12" | 6" | 12" | 12" | 24" |
| SCR CONTROLLED SERVICES | 24" | 12" | 6" | 12" | 12" | 24" |
| 220/440VAC CIRCUITS | 6" | 6" | ADJACENT | ADJACENT | ADJACENT | 24" |
| ALL OTHER SERVICES | 6" | 6" | ADJACENT | ADJACENT | ADJACENT | 24" |

NOT: HEAVY CURRENT DEMANDS IN, OR LONG PARALLEL RUN WITH THE ABOVE SERVICES MAY DICTATE GREATER SEPARATIONS TO AVOID INTERFERENCE IN THE SYSTEMS. SEPARATIONS MIST BE MAINTAINED UNTIL WITHIN SIX FEET OF BOX OR GUTTER ENTRY.

EXCEPTIONS:
1. THE CONDUIT SEPARATIONS ABOVE ARE BASED ON THE USE OF EMT CONDUIT FOR ALL AV AND OTHER SIGNALS.
2. SEPARATIONS WHERE RIGID CONDUIT IS UTILIZED FOR AV SYSTEMS AND/OR OTHER ADJACENT SYSTEMS MAY BE HALVED.
3. SEPARATIONS WHERE PVC CONDUIT IS UTILIZED FOR AV SYSTEMS AND/OR OTHER ADJACENT
SYSTEMS MUST BE DOUBLED.
4. THE CONTRACTOR HAVE WRITTEN AUTHORIZATION FROM THE SYSTEMS DESIGNER FOR ANY
CONDUIT INSTILLATION WHICH DOES NOT CONFORM TO THESE REQUIREMENTS.

## 1 CONDUIT INFORMATION

GENERAL NOTES:
1. SEE AUDIO/VIDEO SYSTEMS WRITTEN SPECIFICATION FOR WORK SCOPE DETAILS.
2. ALL CUSTOM PANELS SHALL BE NUMBERED ACCORDING TO AUDIO/VIDEO SYSTEM SIGNAL FLOW.
3. ALL AUDIO/VIDEO SYSTEM TECHNICAL AND COMMON POWER IS PROVIDED AS PART OF ELECTRICAL CONTRACT.
4. LINE VOLTAGE RECEPTACLES INDICATED AS PART OF CUSTOM AUDIO.VIDEO PANELS ARE PROVIDED AND INSTALLED BY THE AUDIO/VIDEO CONTRACTOR.
5. ALL LINE VOLATAGE RECEPTACLES AND WIRING TO BE PHYSICALLY SEPARATED FROM THE LOW VOLTAGE WIRING BY MEANS OF A METALLIC VOLTAGE BARRIER. IF BACK BOX SIZE INDICATED IN DETAIL DRAWINGS CANNOT ACCOMODATE THE REQUIRED VOLTAGE BARRIER RESIZE BACKBOX ACCORDINGLY.
6. CONFIRM FLUSH OR SURFACE MOUNT WITH ARCHITECT FOR ALL BACKBOX DEVICES PRIOR TO INSTALLATION.
7. CONFIRM ANY CUSTOM COLOR REQUIREMENTS WITH ARCHITECT PRIOR TO FABRICATION.
8. DRAWINGS ARE CONCEPT ONLY AND DETAILED ONLY TO THE EXTENT NECESSARY TO SHOW DESIGN INTENT AND SIGNAL FLOW. IT IS UNDERSTOOD AND AGREED BY THE CONTRACTOR THAT A COMPLETE AND WORKING SYSTEM SHALL BE SUPPLIED WHICH FULFILLS THE INTENT INDICATED IN THE DESIGN DOCUMENTS.

## 2 GENERAL AUDIO/VIDEO NOTES

| SIGNAL TYPE | DESCRIPTION | DESCRIPTOR | MANUFACTURER | WIRE NUMBER | OUTER DIAMETER |
|---|---|---|---|---|---|
| A | MICROPHONE | MIC | Belden | 9451 | 0.135 |
| B | COMM SYSTEM | COMM | Belden | 9460 | 0.23 |
| B | TIE LINES | LINE | Belden | 1696A | 0.234 |
| C | TWISTED JACKETED 14 AWG | 70V4 | West Penn | 226 | 0.234 |
| C | TWISTED JACKETED 16 AWG | 70V6 | West Penn | 225 | 0.182 |
| C | TWISTED JACKETED 16 AWG - REMOTE POWER | CAMPWR | West Penn | 225 | 0.182 |
| C | TWISTED JACKETED 16 AWG - INDUCTION LOOP | LOOP | West Penn | 225 | 0.182 |
| C | TWISTED JACKETED 8 AWG | LS08 | West Penn | C208 | 0.498 |
| C | TWISTED UNJACKETED 10 AWG | LS10 | West Penn | NJ210BKWH | 0.326 |
| C | TWISTED UNJACKETED 12 AWG | LS12 | West Penn | C207 | 0.26 |
| C | TWISTED UNJACKETED 14 AWG | LS14 | West Penn | C206 | 0.222 |
| C | (4 COND) JACKETED 18 AWG | LSXP | Belden | 1502R | 0.25 |
| C | (4 COND) JACKETED 16 AWG - VOLUME CONTROL | VOL | West Penn | 245 | 0.217 |
| D | RF-MICS AND RF-ALS | ANT | Belden | 9258 | 0.242 |
| D | VIDEO COAX | COAX | Belden | 1794a | 0.32 |
| D | MIDI | MIDI | Belden | 9941 | 0.23 |
| D | CONTROL SYSTEM RELAY | RLY | Belden | 9460 | 0.23 |
| D | RMS | RMS | Belden | 8205 | 0.18 |
| D | CONTROL SYSTEM 232/485 AND IR | SER | Belden | 9460 | 0.23 |
| E | MULTI MODE FIBER (6 ct.) OM4 | MMF | Belden | FI4D006R9A | 0.17 |
| E | SINGLE MODE FIBER (6 ct.) OS2 | SMF | Belden | FISD006R9 | 0.17 |
| E | SMPTE HYBRID | SMPTE | Gepco | HDC920R | 0.362 |
| E | SHIELDED CAT6A | STP | Belden | 10GX52F | 0.3 |
| E | UNSHIELDED CAT6A | UTP | Belden | 2412 | 0.22 |
| F | BEVWAY DUCT | BVWY | Kelly Bevway | 8" SYSTEM | |
| F | FIRE STOPPED CABLE PASS TRIPLE | CBP3 | Abesco | 3X 31942 + 31986 | |
| F | FIRE STOPPED CABLE PASS SINGLE | CPB1 | Abesco | 31942 + 31982 | |
| F | EMPTY CONDUIT - 1" | ECO1 | | | |
| F | EMPTY CONDUIT - 2" | ECO2 | | | |

## 3 WIRE TYPES


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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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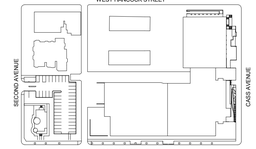
DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# AV - GENERAL NOTES

Project Number: 3995-001-00

Drawn By: Nick Correa

Scale:

Seal:

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Signature:

Drawing No:

# AV0.1

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Sheet Size: 30" x 42"
- Template Version

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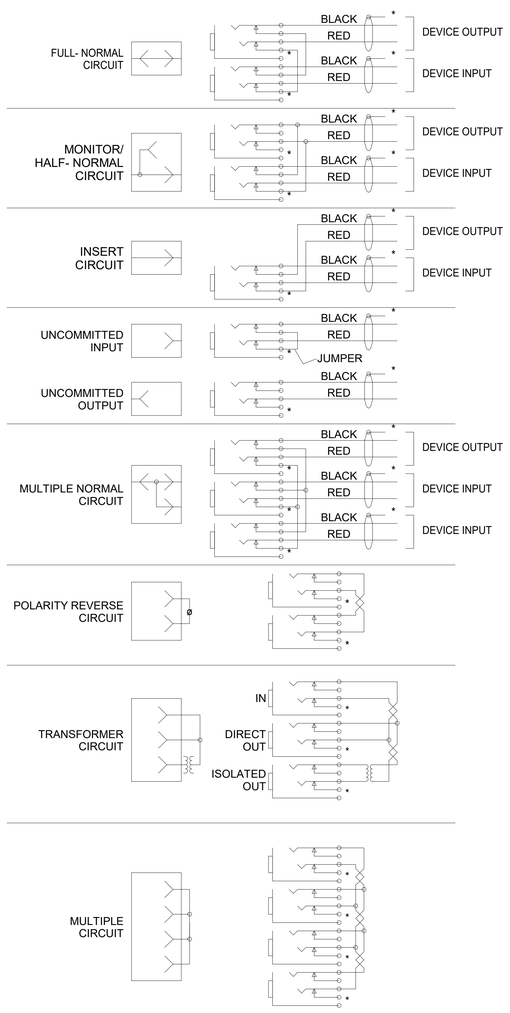
## KEY - SIGNAL FLOW

| | |
|---|---|
| X / X | REFERENCE NUMBER<br>REFERENCE MARKER<br>GO TO PAGE NUMBER |
| X / X | SWITCH ID<br>ETHERNET PORT SYMBOL<br>PORT ID |
| XX | TERMINATION LABEL |
| | CONTROL PATH |
| | JUMPER CABLE |
| | MULTIPIN TAIL FAN OUT |
| | CONNECTION POINT |
| | PROVIDE CABLE AND CONNECTOR TERMINATION WITHIN RACK (NO CONNECTION AT THIS TIME) |
| | AMPLIFIER |
| | LOUDSPEAKER |
| | PATCH BAY (SEE COVER SHEET FOR WIRING CONVENTIONS) |
| | TRANSFORMER |
| | 'X'P3T SWITCH<br>(X = CHOOSE ADDITIONAL POLES FOR BALANCED CIRCUITS AS REQUIRED)<br>'X'PDT RELAY |
| | CIRCUIT PATH JUNCTION<br>CIRCUIT PATH CROSS NO JUNCTION<br>MULTIPLE CIRCUIT PATHS GROUPED FOR CLARITY NO JUNCTION |

1 SIGNAL FLOW STANDARD SYMBOLS
NTS

## PATCHBAY WIRING CONVENTIONS




* TERMINATE ALL CABLE SHIELDS AND GROUNDS AS REQUIRED FOR PROPER CIRCUIT OPERATION AND GROUNDING.

2 AUDIO PATCHBAY WIRING CONVENTIONS
NTS

## KEY TO STANDARD CONNECTORS

| DEVICE | DESCRIPTION | DEVICE | DESCRIPTION |
|---|---|---|---|
| W3 | WHIRLWIND W3CRP MASS CONNECTOR | | MALE XLR PANEL CONNECTOR NEUTRIK NC3MD-L-BAG-1 |
| | | | FEMALE XLR PANEL CONNECTOR NEUTRIK NC3FD-L-BAG-1 |
| W4 | WHIRLWIND W4CRP MASS CONNECTOR | | 1/4" T.R.S. PANEL CONNECTOR NEUTRIK NJ3FP6C-BAG |
| | | | RCA PANEL CONNECTOR NEUTRIK NF2D-B-x |
| W5 | WHIRLWIND W5CRP MASS CONNECTOR | | 3.5MM STEREO PANEL - SWITCHCRAFT EH35MMSSCB |
| | | | BNC PANEL CONNECTOR NEUTRIK NBB75DFIB |
| W6 | WHIRLWIND W6CRP MASS CONNECTOR | | CAT6A PANEL CONNECTOR NEUTRIK NE8FDX-Y6-B |
| | | | FIBER OPTIC PANEL CONNECTOR NEUTRIK NO2-4FDW-1-A |
| | ILLUMINATED MOMENTARY PUSHBUTTON EAO SERIES 31 | M | SPEAKON MALE 4-PIN PANEL CONNECTOR NEUTRIK NL4MP-UC |
| | TOGGLE SWITCH ALCOSWITCH MTA-106D | M | SPEAKON STX SERIES MALE 4-PIN PANEL CONNECTOR NEUTRIK NLT4MP-BAG |
| | HD15 FEMALE PANEL CONNECTOR NEUTRIK NADB15FF-B | F | SPEAKON STX SERIES FEMALE 4-PIN PANEL CONNECTOR NEUTRIK NLT4FP-BAG |
| | DB9 PANEL CONNECTOR NEUTRIK NADB9xx-B | | SPEAKON MALE 8-PIN PANEL CONNECTOR NEUTRIK NL8MPR-BAG |
| | HDMI FEMALE PANEL CONNECTOR NEUTRIK NAHDMI-W-B | | SMPTE 304 PANEL CONNECTOR LEMO 3K.93C |
| | SEQUENCER POWER SWITCH LYNTEC SS2-PL | | 20A NEMA 5-20R ISOLATED GROUND DUPLEX RECEPTACLE HUBBELL IG5362 |
| | 20A NEMA 5-20R ISOLATED GROUND SINGLE RECEPTACLE HUBBELL IG8310 | | |
| | POWERCON TRUE1 20A PANEL CONNECTOR NEUTRIK NAC3FPX | P | POWERCON PANEL POWER OUTLET NEUTRIK NAC3MPB-BAG |
| ON OFF | 30A NEMA L5-30 120V 30A RECEPTACLE | | 30A NEMA L6-30 240V 30A RECEPTACLE |
| | 30A NEMA L21-30 120/208V 30A RECEPTACLE (5-WIRE) | | DC POWER TWIST-LOCK HUBBELL 7468 (MATING PLUG: 7465V) |

3 STANDARD CONNECTORS & SYMBOLS
NTS

## TERMINATION SYMBOL KEY

XX- # # IT / P/N

- TERMINATION ID (SEE SCHEDULE OF TERMINATIONS)
- UNIQUE IDENTIFIER
- MOUNTING TYPE (SEE DEVICE MOUNTING KEY BELOW)
- LOCATION CONTAINS POWER/IT (SEE SCHEDULE OF TERMINATIONS)

### DEVICE MOUNTING TYPE KEY

A - MOUNT IN CEILING .
B - MOUNT AT PROJECT OUTLET HEIGHT.*
C - MOUNT AT PROJECT SWITCH HEIGHT. *
D - MOUNT AT PROJECT CONTROLS HEIGHT.*
E - MOUNT AT 84" AFF.
F - MOUNT PER NOTE OR SPECIAL DETAIL DRAWING.
G - CLAMP TO STRUCTURE.
H - FREE STANDING.
J - FLUSH MOUNT IN FLOOR.

*REFER TO ARCHITECTURAL DRAWINGS FOR PROJECT STANDARD MOUNTING HEIGHTS.

### POWER & IT NETWORK REQUIREMENTS KEY

P = AUDIO VIDEO TECHNICAL POWER
N = NON TECHNICAL POWER
IT = IT NETWORK RECEPTACLE

POWER BY THE ELECTRICAL CONTRACTOR AND IT BY THE STRUCTURED CABLING CONTRACTOR.
AV TECHNICAL POWER & IT INFRASTRUCTURE NOT INCLUDED IN AV SYSTEM CONTRACT.
-SEE ELECTRIC & IT INFRASTRUCTURE DIVISIONS-

4 AUDIO/VIDEO TERMINATION KEY
NTS

Owner
Wayne State University FP&M
5454 Cass Ave
Detroit, MI 48202
313.577.2424

Contractor
Walbridge
777 Woodward Ave. Suite 300
Detroit, MI 48202
313.963.8000

Executive Architect
Hamilton Anderson
1435 Randolph Street, Suite 200
Detroit, MI 48226
313.964.0270

Design Architect
HGA
420 5th Street N, Suite 100
Minneapolis, MN 55401
612.758.4000

MEP Engineer
HGA
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Minneapolis, MN 55401
612.758.4000

Structural Engineer
DESI / NASR Consulting Engineers
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Civil Engineer
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800.598.1600

Landscape Architect
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313.964.0270

Theatrical
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New York, NY 10018
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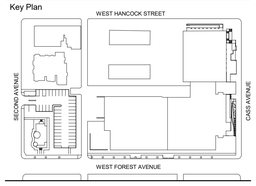
Lighting
Auerbach Glasow
1045 Sansome Street, Suite 300
San Fransisco, CA 94111
415.392.7528

Acoustics
Jaffe Holden
114-A Washington Street
Norwalk, CT 06864
203.838.4168

DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# AV - SYMBOLS

Project Number: 3995-001-00
Drawn By: Designer
Scale: NTS
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
# AV0.2

BIM 360://WSU Hillberry Gateway/AV18-WSU Hillberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
- Template Version

## AV Schedule of Terminations

AA - DOWNSTAGE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| A | 8 | MIC | ZA |
| A | 2 | MIC | ZC |
| B | 4 | COMM | ICOM1 |
| B | 4 | LINE | ZA |
| C | 4 | LS10 | ZA |

AB - UPSTAGE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| A | 4 | MIC | ZA |
| B | 4 | COMM | ICOM1 |
| B | 2 | LINE | ZA |
| C | 4 | LS10 | ZA |

AC - UPSTAGE CENTER INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| A | 8 | MIC | ZA |
| B | 4 | COMM | ICOM1 |
| B | 4 | LINE | ZA |
| C | 4 | LS10 | ZA |

AD - ORCHESTRA PIT INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 2 | LINE | ZA |
| C | 4 | LS10 | ZA |

AF - TRAP ROOM INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 2 | LINE | ZA |
| C | 4 | LS10 | ZA |

AH - ANCILLARY INTERFACE - STAGE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 2 | LINE | ZA |
| C | 2 | LS10 | ZC |

AI - LIVE ROOM MICROPHONE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| A | 2 | MIC | ZC |

AJ - HOUSE MIX INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 4 | LINE | ZB |
| E | 8 | STP | ZB |

AK - BOOTH MIX INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 8 | LINE | ZB |

AR - BALCONY RAIL INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 2 | LINE | ZB |
| C | 2 | LS10 | ZC |
| D | 1 | ANT | ZB |

AT - TECH TABLE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 4 | LINE | ZB |
| E | 8 | STP | ZB |

AU - ANCILLARY INTERFACE - HOUSE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 2 | LINE | ZB |
| C | 2 | LS10 | ZC |

AW - FOLLOW SPOT BOOTH INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 2 | LINE | ZB |

AZ - PTZ CAMERA INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 2 | LINE | ZB |
| C | 3 | CAMPWR | ZB |
| C | 2 | LS10 | ZC |
| D | 3 | COAX | ZB |
| E | 4 | STP | ZB |

## AV Schedule of Terminations

BA - SIDE LOUDSPEAKER

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 4 | LS10 | ZC |

BB - CENTER LOUDSPEAKER

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 2 | LS10 | ZC |

BD - FRONT FILL INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | LS10 | ZC |

BE - PIT RAIL INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | LS10 | ZC |

BI - SURROUND INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 2 | LS10 | ZC |

BJ - BOOTH AUDIO MONITOR - SURFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 2 | LS10 | ZB |

BK - BOOTH AUDIO MONITOR - CEILING

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | 70V4 | BK or ZC |

BL - ON STAGE PAGE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | LS10 | ZC |

BM - SURFACE MOUNT P&P LOUDSPEAKER

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | LS10 | BM or ZF |

BN - SURFACE MOUNT P&P LOUDSPEAKER

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | LS10 | BM or ZC |

BO - CEILING P&P LOUDSPEAKER

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | 70V4 | BO or ZC |

BP - CEILING P&P LOUDSPEAKER

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | 70V4 | BP or ZF |

BQ - CEILING P&P LOUDSPEAKER

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | 70V4 | BQ or ZF |

## AV Schedule of Terminations

CA - ALS ANTENNA

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| D | 1 | ANT | ZC |

CC - STAGE MANAGER INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 4 | LINE | ZB |

CD - INTERCOM PLUG BOX

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |

CE - INTERCOM WALL BOX

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 2 | COMM | ICOM1 |

CF - PAGING INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | STP | ZB |

CI - VOLUME CONTROL - IP

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | STP | ZB |

CX - CONTROL PANEL

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | STP | ZB |

DA - DISPLAY INTERFACE - SHOW FEED

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 2 | STP | ZB |

DB - DISPLAY INTERFACE - DIGITAL SIGNAGE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 2 | STP | ZB |

DD - DISPLAY INTERFACE - SHOW FEED

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 2 | STP | ZB |

DP - PROJECTOR INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 2 | STP | ZB |

## AV Schedule of Terminations

EA - DOWNSTAGE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZA |
| E | 10 | STP | ZA |

EB - OFFSTAGE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZA |
| E | 10 | STP | ZA |

EC - UPSTAGE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZA |
| E | 10 | STP | ZA |

ED - ORCHESTRA PIT INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZA |
| E | 10 | STP | ZA |

EF - TRAP ROOM INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZA |
| E | 10 | STP | ZA |

EH - ANCILLARY INTERFACE - STAGE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZA |
| E | 2 | STP | ZA |

EK - BOOTH MIX INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZB |
| E | 10 | STP | ZB |

ER - BALCONY RAIL INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZB |
| E | 2 | STP | ZB |

ES - STAGE MANAGER INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 6 | STP | ZB |

EU - ANCILLARY INTERFACE - HOUSE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZB |
| E | 2 | STP | ZB |

EW - SPOT BOOTH INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZB |
| E | 2 | STP | ZB |

EZ - PTZ CAMERA INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZB |
| E | 2 | STP | ZB |

## AV Schedule of Terminations

FA - STAGE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| A | 8 | MIC | ZE |
| B | 4 | COMM | ICOM2 |
| B | 4 | LINE | ZE |
| C | 4 | LS10 | ZC |
| E | 1 | SMF | ZE |
| E | 8 | STP | ZE |

FH - GALLERY/GRID INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM2 |
| B | 4 | LINE | ZE |
| C | 4 | LS10 | ZC |

FI - LIVE ROOM MICROPHONE INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| A | 2 | MIC | ZC |

FK - BOOTH MIX INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM2 |
| B | 8 | LINE | ZE |

FM - RF MIC ANTENNA

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| D | 1 | ANT | ZC |

FZ - PTZ CAMERA INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 3 | CAMPWR | ZE |
| D | 3 | COAX | ZE |
| E | 4 | STP | ZE |

GK - BOOTH AUDIO MONITOR - CEILING

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| C | 1 | 70V4 | GK or ZC |

HC - STAGE MANAGER INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM2 |
| B | 4 | LINE | ZE |

HD - INTERCOM PLUG BOX

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM2 |

KH - GALLERY/GRID INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZE |
| E | 10 | STP | ZE |

KK - BOOTH MIX INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | SMF | ZE |
| E | 10 | STP | ZE |

KS - STAGE MANAGER INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 6 | STP | ZE |

## AV Schedule of Terminations

SA - DISPLAY INTERFACE - SHOW FEED

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 2 | STP | ZF |

SF - PAGING INTERFACE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | STP | ZF |

SI - VOLUME CONTROL - IP

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | STP | ZF |

SX - CONTROL PANEL

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| E | 1 | STP | ZF |

## AV Schedule of Terminations

ZA - EQUIPMENT RACK - STAGE

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 16 | LINE | ZB |
| D | 4 | COAX | ZB |
| E | 4 | MMF | ZB |
| E | 4 | SMF | ZB |
| E | 8 | STP | ZB |
| F | 2 | ECO2 | ZB |

ZB - EQUIPMENT RACK - CONTROL ROOM

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 8 | LINE | ZC |
| E | 4 | MMF | ZC |
| E | 4 | SMF | ZC |
| E | 4 | STP | ZC |
| F | 2 | ECO2 | ZC |

ZC - EQUIPMENT RACK - AMP ROOM

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 8 | LINE | ZA |
| C | 16 | LS10 | ZA |
| E | 4 | MMF | ZA |
| E | 4 | SMF | ZA |
| E | 4 | STP | ZA |
| F | 2 | ECO2 | ZA |

ZE - EQUIPMENT RACK - BOOTH

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM2 |
| B | 8 | LINE | ZC |
| E | 4 | MMF | ZC |
| E | 4 | SMF | ZC |
| E | 4 | STP | ZC |
| F | 2 | ECO2 | ZC |

ZF - EQUIPMENT RACK - SHOPS

| TERM | QTY | Wire Type | Route To |
|---|---|---|---|
| B | 4 | COMM | ICOM1 |
| B | 4 | COMM | ICOM2 |
| E | 4 | MMF | ZC |
| E | 4 | SMF | ZC |
| F | 1 | ECO2 | ZC |


HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

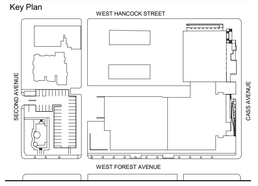
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168

DETROIT, MI


Key Plan




100% DESIGN DEVELOPMENT — JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - SCHEDULES 1

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# AV0.3


BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001000.rvt

Sheet Size: 30" x 42"
- Template Version

## AV Back Box Schedule

| Term | QTY | Back Box Height | Back Box Width | Back Box Depth | Box Type |
|---|---|---|---|---|---|
| AA | 2 | 10" | 12" | 6" | 10x12x6 |
| AB | 1 | 10" | 8" | 4" | 10x8x4 |
| AC | 2 | 10" | 12" | 6" | 10x12x6 |
| AD | 2 | 8" | 6" | 4" | 8x6x4 |
| AF | 1 | 8" | 6" | 4" | 8x6x4 |
| AH | 4 | 8" | 6" | 4" | 8x6x4 |
| AI | 1 | 4" | 4" | 4" | 4x4x4 |
| AJ | 1 | 12" | 18" | 6" | 12x18x6 |
| AK | 1 | 10" | 12" | 6" | 10x12x6 |
| AR | 2 | 6" | 6" | 6" | 6x6x6 |
| AT | 1 | 12" | 18" | 6" | 12x18x6 |
| AU | 7 | 8" | 6" | 4" | 8x6x4 |
| AW | 1 | 6" | 6" | 4" | 6x6x4 |
| AZ | 1 | 10" | 8" | 4" | 10x8x4 |
| BA | 2 | 4" | 4" | 4" | 4x4x4 |
| BB | 1 | 4" | 4" | 4" | 4x4x4 |
| BD | 4 | 4 1/2" | 2 3/4" | 4" | SINGLE GANG |
| BE | 7 | 4 1/2" | 2 3/4" | 4" | SINGLE GANG |
| BI | 10 | 4" | 4" | 4" | 4x4x4 |
| BK | 6 | 0" | 0" | 0" | LOUDSPEAKER TYPE 1 |
| BL | 4 | 4 1/2" | 2 3/4" | 4" | SINGLE GANG |
| BM | 7 | 4 1/2" | 2 3/4" | 4" | SINGLE GANG |
| BN | 6 | 4 1/2" | 2 3/4" | 4" | SINGLE GANG |
| BO | 13 | 0" | 0" | 0" | LOUDSPEAKER TYPE 1 |
| BP | 13 | 0" | 0" | 0" | Loudspeaker Type 5 |
| BQ | 27 | 0" | 0" | 0" | LOUDSPEAKER TYPE 1 |
| CA | 1 | 4" | 4" | 4" | 4x4x4 |
| CC | 1 | 6" | 6" | 4" | 6x6x4 |
| CD | 9 | 4" | 6" | 4" | 4x6x4 |
| CE | 8 | 4" | 4" | 4" | 4x4x4 |
| CF | 1 | 4" | 4" | 4" | 4x4x4 |
| CI | 1 | 4 1/2" | 2 3/4" | 4" | SINGLE GANG |
| CX | 1 | 4" | 4" | 4" | 4x4x4 |
| DA | 2 | 9" | 14 1/4" | 3 7/8" | CHIEF PAC 525 |
| DB | 6 | 9" | 14 1/4" | 3 7/8" | CHIEF PAC 525 |
| DD | 4 | 4" | 4" | 4" | 4x4x4 |
| DP | 1 | 4" | 4" | 4" | 4x4x4 |
| EA | 2 | 8" | 10" | 4" | 8x10x4 |
| EB | 1 | 8" | 10" | 4" | 8x10x4 |
| EC | 2 | 8" | 10" | 4" | 8x10x4 |
| ED | 2 | 8" | 10" | 4" | 8x10x4 |
| EF | 1 | 8" | 10" | 4" | 8x10x4 |
| EH | 4 | 6" | 4" | 4" | 6x4x4 |
| EK | 1 | 8" | 10" | 4" | 8x10x4 |
| ER | 2 | 6" | 4" | 4" | 6x4x4 |
| ES | 1 | 6" | 6" | 4" | 6x6x4 |
| EU | 7 | 6" | 4" | 4" | 6x4x4 |
| EW | 1 | 6" | 4" | 4" | 6x4x4 |
| EZ | 1 | 6" | 4" | 4" | 6x4x4 |
| FA | 3 | 16 3/4" | 12 3/8" | 3 31/32" | FSR WB-X3-XLR |
| FH | 9 | 8" | 6" | 4" | 8x6x4 |
| FI | 1 | 4" | 4" | 4" | 4x4x4 |
| FK | 1 | 10" | 12" | 6" | 10x12x6 |
| FM | 2 | 4" | 4" | 4" | 4x4x4 |
| FZ | 2 | 6" | 6" | 4" | 6x6x4 |
| GK | 3 | 0" | 0" | 0" | LOUDSPEAKER TYPE 1 |
| HC | 1 | 6" | 6" | 4" | 6x6x4 |
| HD | 5 | 4" | 6" | 4" | 4x6x4 |
| KH | 9 | 8" | 10" | 4" | 8x10x4 |
| KK | 1 | 8" | 10" | 4" | 8x10x4 |
| KS | 1 | 6" | 6" | 4" | 6x6x4 |
| SA | 11 | 9" | 14 1/4" | 3 7/8" | CHIEF PAC 525 |
| SF | 1 | 4" | 4" | 4" | 4x4x4 |
| SI | 14 | 4 1/2" | 2 3/4" | 4" | SINGLE GANG |
| SX | 2 | 4" | 4" | 4" | 4x4x4 |
| ZX | 1 | 4" | 4" | 4" | 4x4x4 |
| ZY | 1 | 4" | 4" | 4" | 4x4x4 |

## AV Power Schedule

| Term | QTY OF TERM. | AVTP 120V/20A RECEPTACLE TYPE | CIRCUIT COUNT | AVTP 120V/30A RECEPTACLE TYPE | CIRCUIT COUNT | AVTP 208V/30A RECEPTACLE TYPE | CIRCUIT COUNT | NTP 120V/20A RECEPTACLE TYPE | CIRCUIT COUNT | NTP 120V/30A RECEPTACLE TYPE | CIRCUIT COUNT | 60A NTP Pin & Sleeve | 200A AVTP Company Switch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AB | 1 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AC | 2 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AD | 2 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AF | 1 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AH | 4 | DUPLEX | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AJ | 1 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AK | 1 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AT | 1 | DUPLEX | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AU | 7 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| AZ | 1 | DUPLEX | 1 | | 0 | | 0 | | 0 | | 0 | | |
| CC | 1 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| DA | 2 | DUPLEX | 1 | | 0 | | 0 | | 0 | | 0 | | |
| DB | 6 | DUPLEX | 1 | | 0 | | 0 | | 0 | | 0 | | |
| DD | 4 | DUPLEX | 1 | | 0 | | 0 | | 0 | | 0 | | |
| DP | 1 | DUPLEX | 1 | L5-30 | 1 | | 0 | | 0 | | 0 | | |
| FA | 3 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| FH | 9 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| FK | 1 | QUAD | 2 | | 0 | | 0 | | 0 | | 0 | | |
| HC | 1 | QUAD | 1 | | 0 | | 0 | | 0 | | 0 | | |
| SA | 11 | | 0 | | 0 | | 0 | DUPLEX | 1 | | 0 | | |
| ZX | 1 | | 0 | | 0 | | 0 | | 0 | | 0 | | YES |
| ZY | 1 | | 0 | | 0 | | 0 | | 0 | | 0 | YES | |

## AV Rack Power Schedule

| Term | Unique ID Number | AVTP 120V/20A RECEPTACLE TYPE | CIRCUIT COUNT | AVTP 120V/30A RECEPTACLE TYPE | CIRCUIT COUNT | AVTP 208V/30A RECEPTACLE TYPE | CIRCUIT COUNT | NTP 120V/20A RECEPTACLE TYPE | CIRCUIT COUNT | NTP 120V/30A RECEPTACLE TYPE | CIRCUIT COUNT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ZA | 1 | TAILS | 3 | | 0 | | 0 | | 0 | | 0 |
| ZB | 1 | TAILS | 3 | | 0 | | 0 | | 0 | | 0 |
| ZC | 1 | TAILS | 1 | TAILS | 3 | | 0 | | 0 | | 0 |
| ZC | 2 | TAILS | 3 | TAILS | 1 | | 0 | | 0 | | 0 |
| ZC | 3 | TAILS | 3 | TAILS | 1 | | 0 | | 0 | | 0 |
| ZC | 4 | TAILS | 1 | TAILS | 3 | | 0 | | 0 | | 0 |
| ZE | 1 | TAILS | 3 | | 0 | | 0 | | 0 | | 0 |
| ZF | 1 | | 0 | | 0 | | 0 | TAILS | 2 | | 0 |

NOTE: ALL CIRCUIT COUNTS ARE PER TERMINATION / RACK.

## AV IT Loctaion Schedule

| Term | Wire Quantity |
|---|---|
| AJ | 2 |
| AK | 2 |
| AT | 2 |
| DA | 2 |
| DB | 2 |
| DD | 2 |
| FK | 2 |
| HC | 2 |
| SA | 2 |
| ZA | 2 |
| ZB | 2 |
| ZC | 2 |
| ZE | 2 |
| ZF | 2 |

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

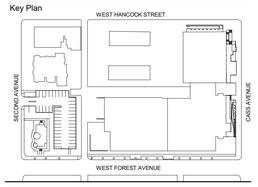
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# AV - SCHEDULES 2

Project Number: 3995-001-00

Drawn By: Designer

Scale:

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# AV0.4

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

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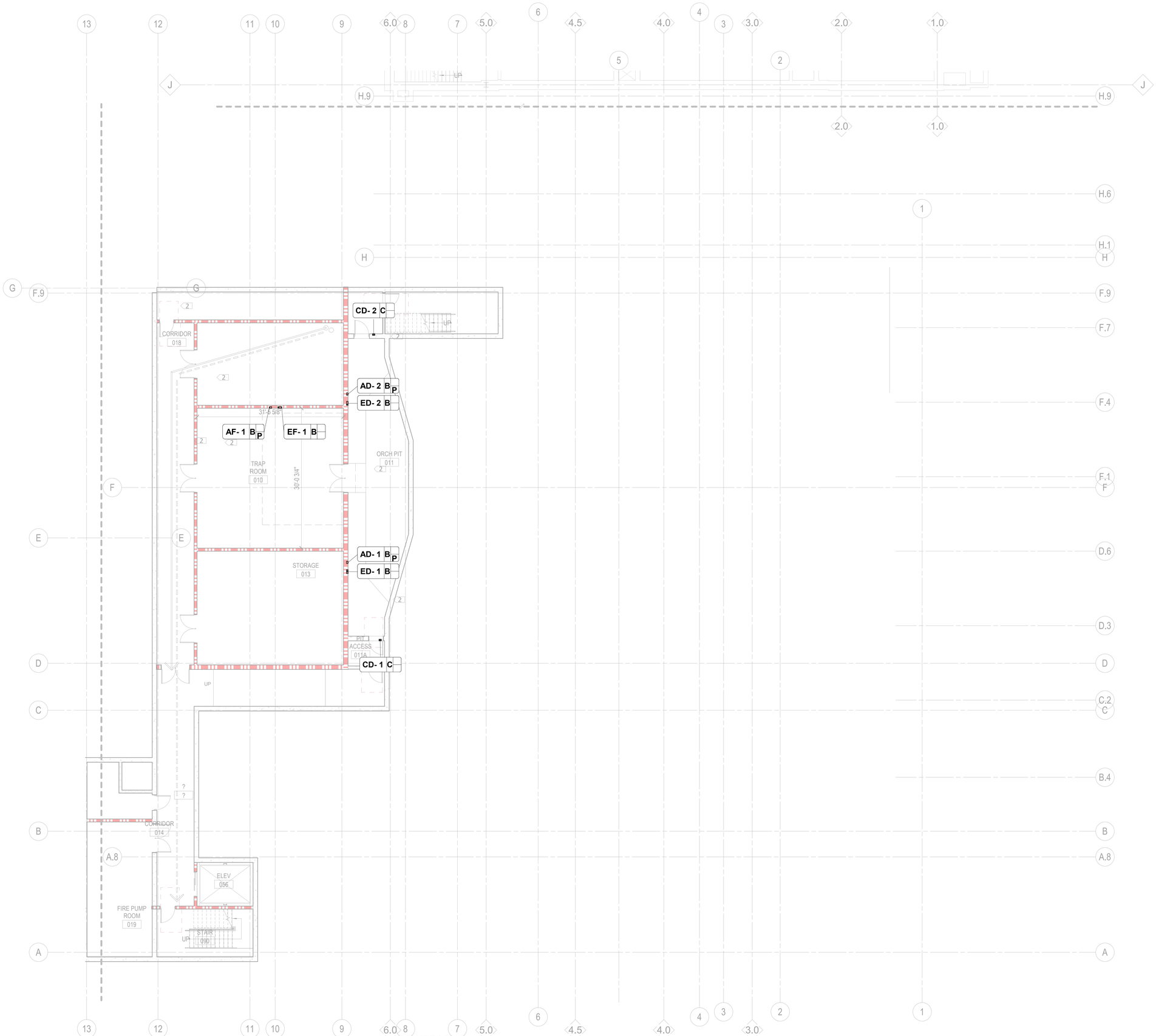


AV - LOWER LEVEL - B
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - LOWER LEVEL PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

PLAN NORTH TRUE NORTH

# AV1.0B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001000.rvt

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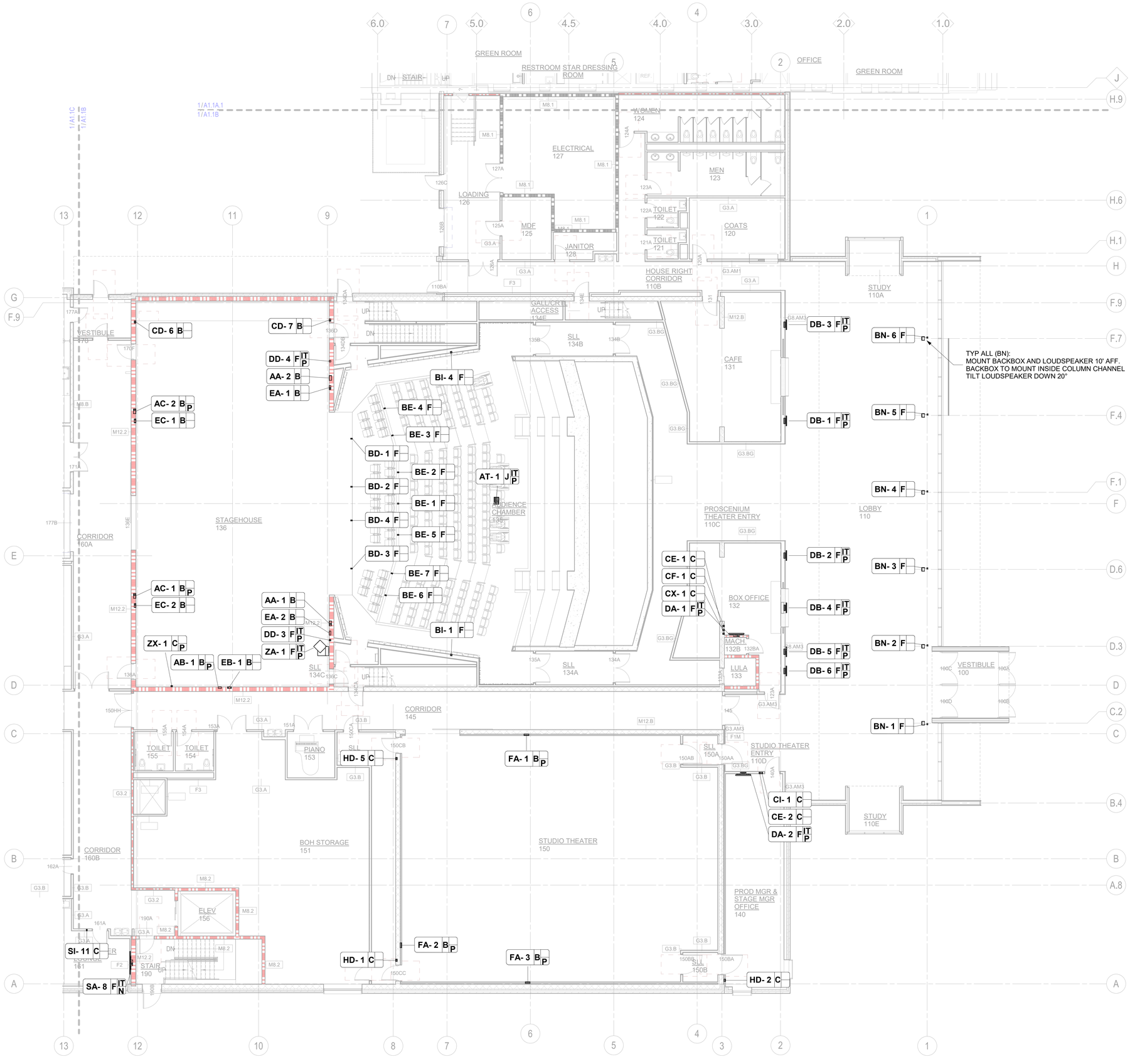


AV - LEVEL ONE - B
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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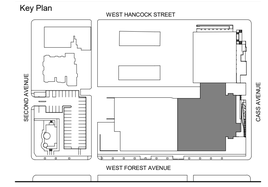
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - LEVEL ONE PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

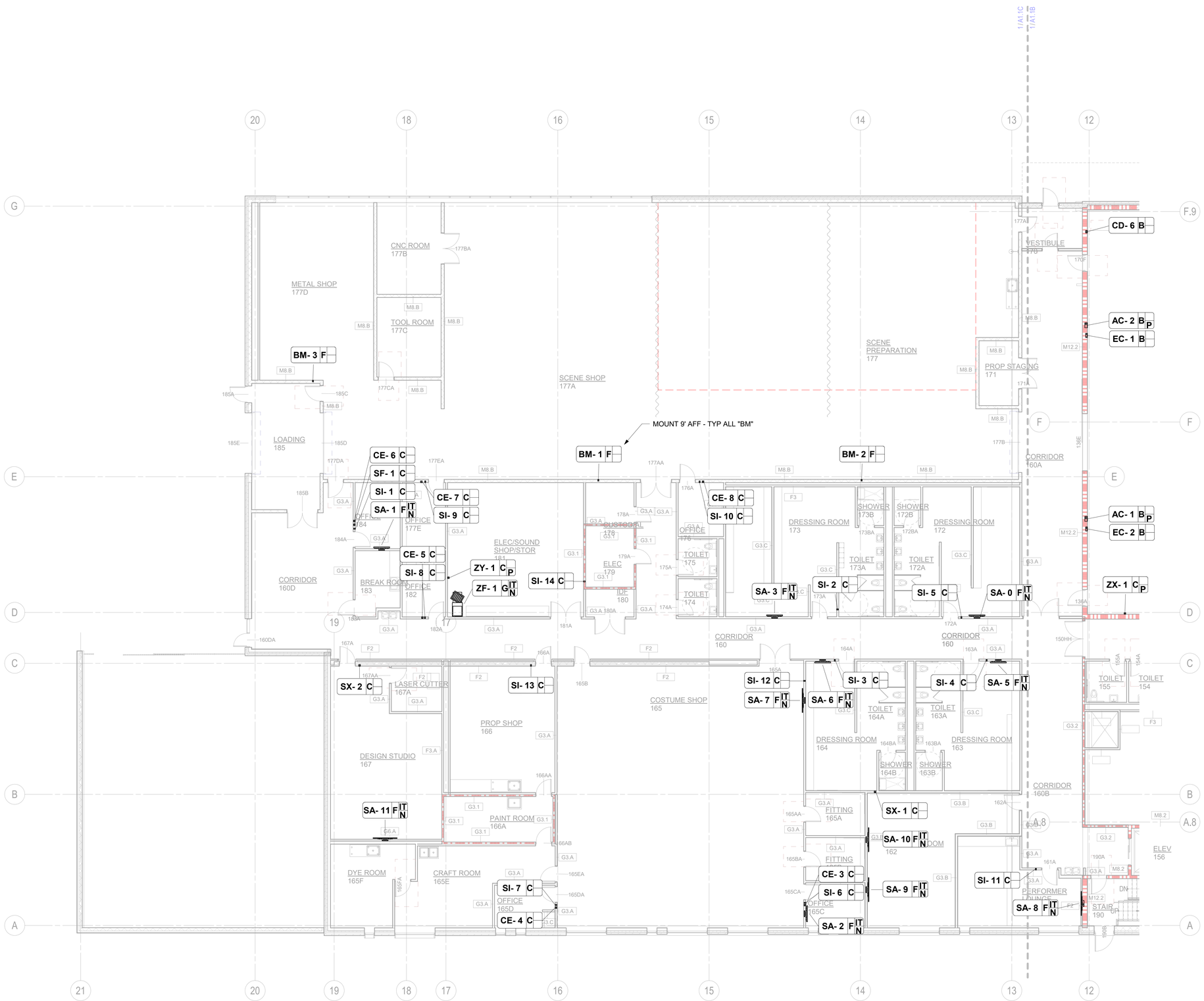
Drawing No:

PLAN NORTH TRUE NORTH

# AV1.1B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001/00.rvt

Sheet Size: 30" x 42"
: Template Version




AV - LEVEL ONE - C
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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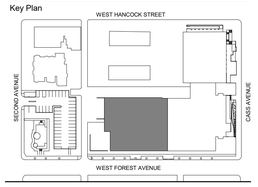
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - LEVEL ONE PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

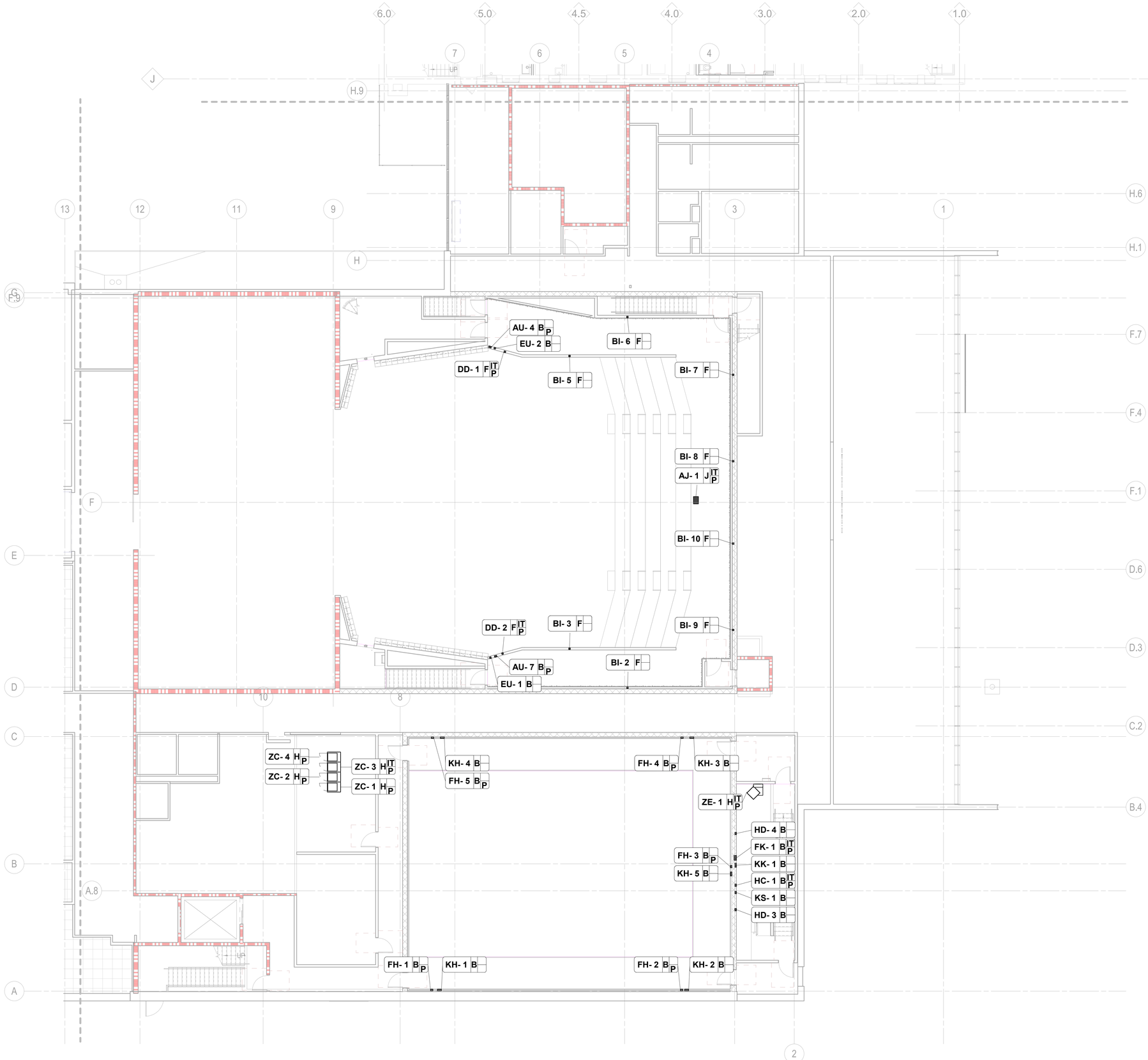
Drawing No:

PLAN NORTH TRUE NORTH

# AV1.1C

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




AV - UPPER LEVEL - B
1/8" = 1'-0"

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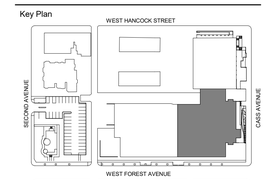
WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# AV - UPPER LEVEL PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

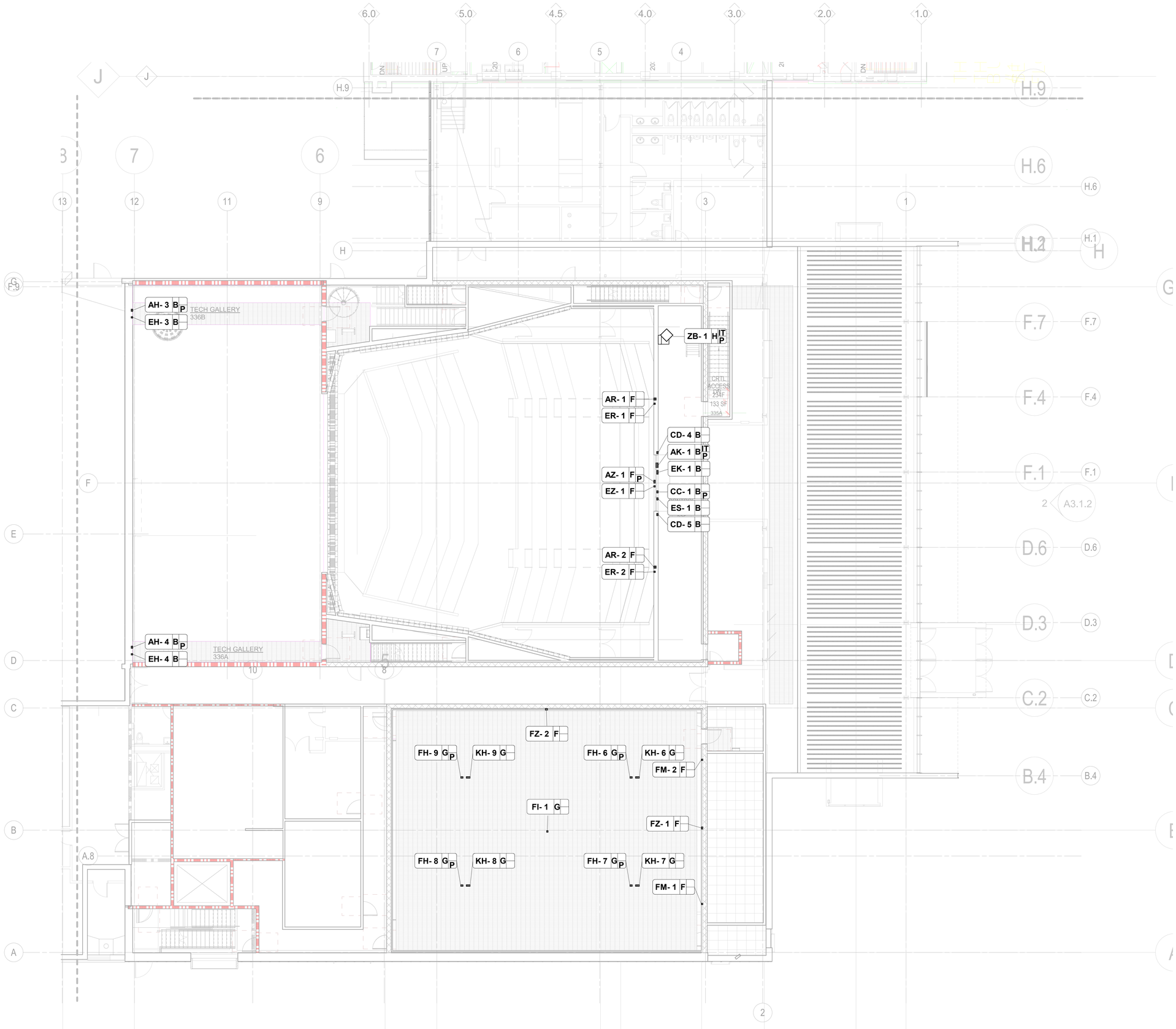
Drawing No:

PLAN NORTH TRUE NORTH

# AV1.2B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




AV - CONTROL ROOM LEVEL PLAN - B
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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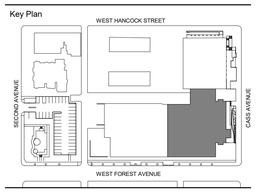
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - CONTROL LEVEL PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

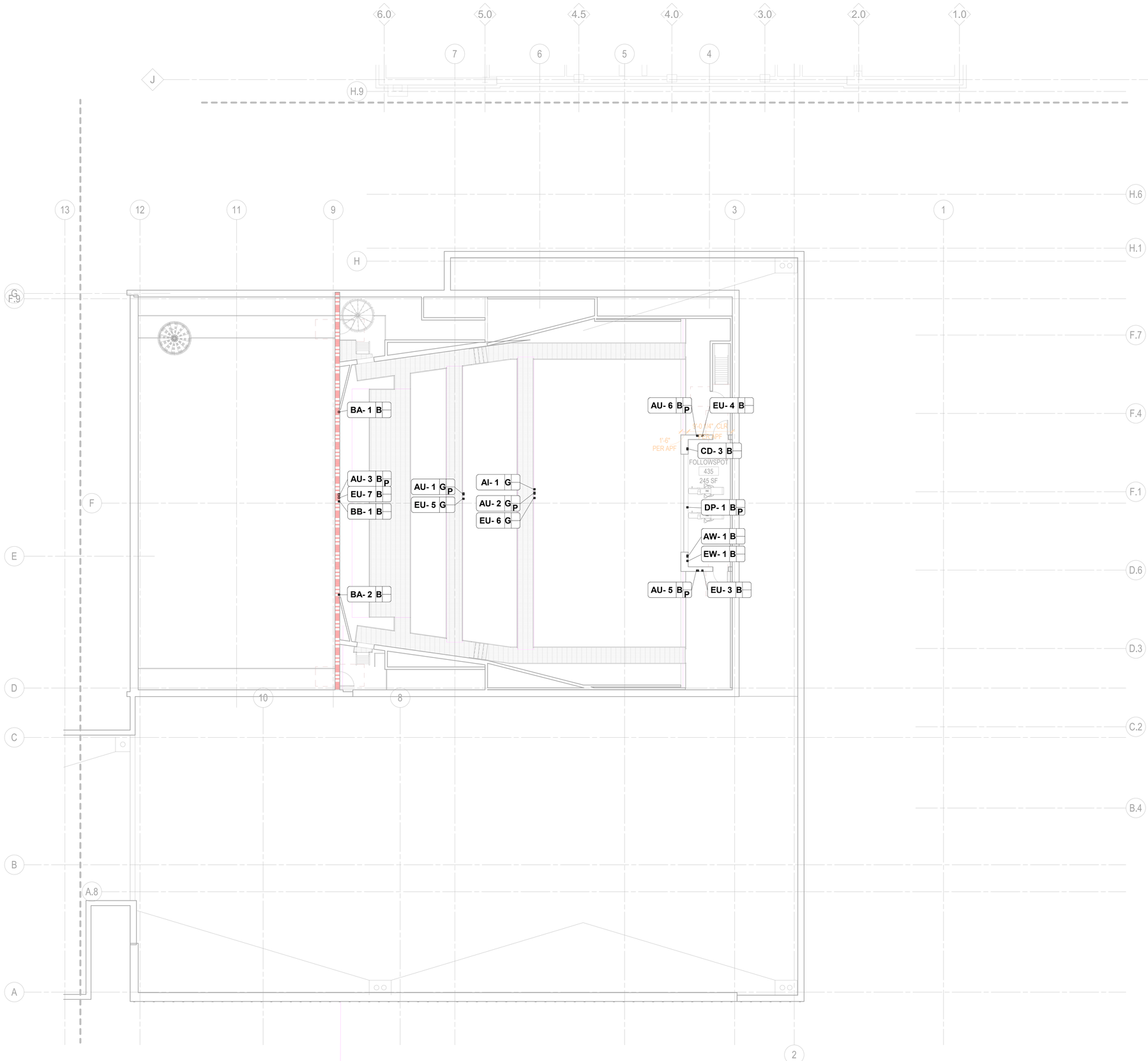
Drawing No:

PLAN NORTH TRUE NORTH

# AV1.3B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001000.rvt

Sheet Size: 30" x 42"
: Template Version




AV - TECHNICAL LEVEL PLAN - B
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

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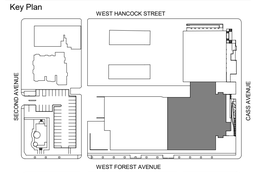
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - TECHNICAL LEVEL PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

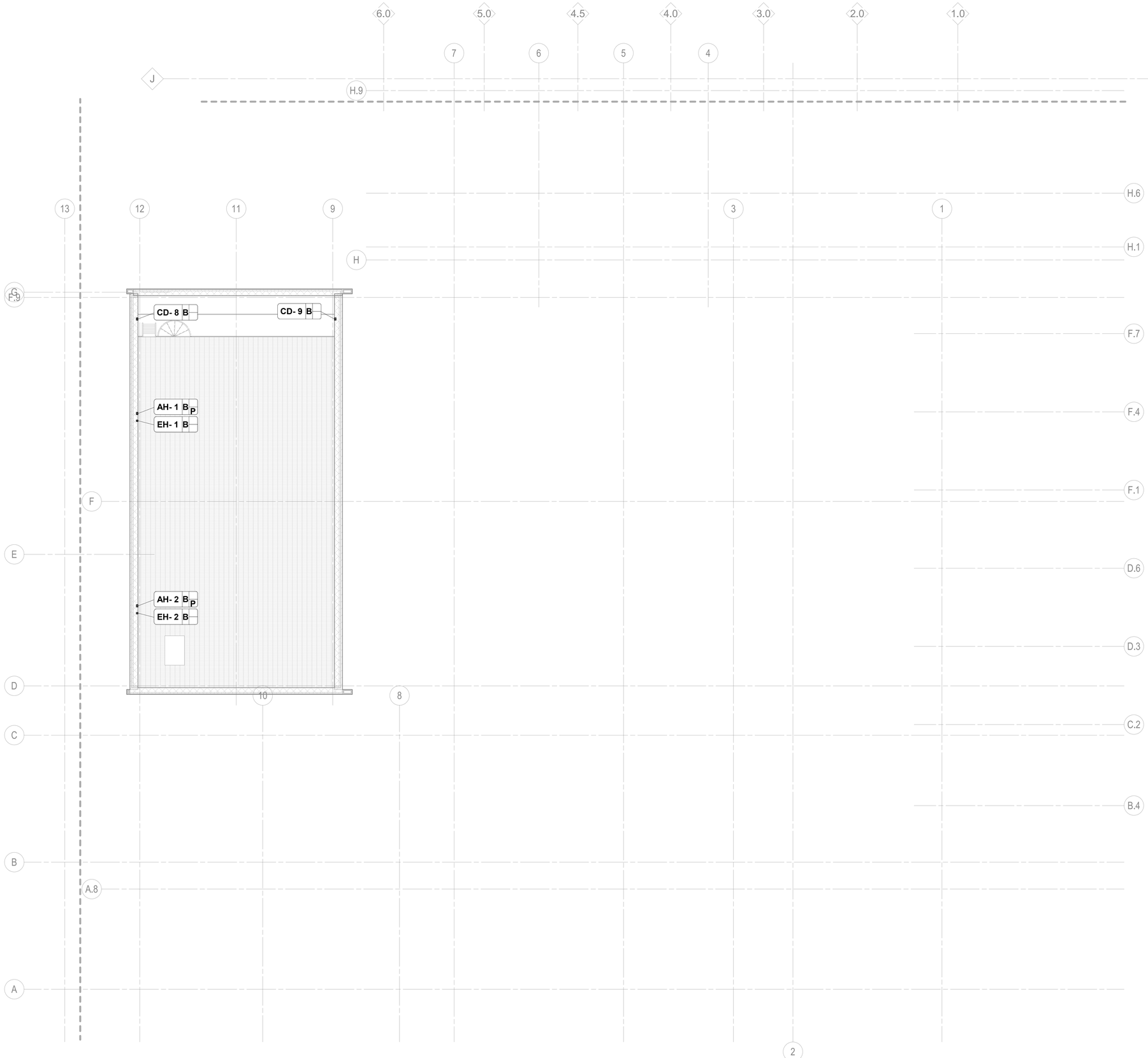
Drawing No:

PLAN NORTH TRUE NORTH

# AV1.4B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




AV - GRIDIRON LEVEL PLAN - B
1/8" = 1'-0"

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - GRIDIRON LEVEL PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

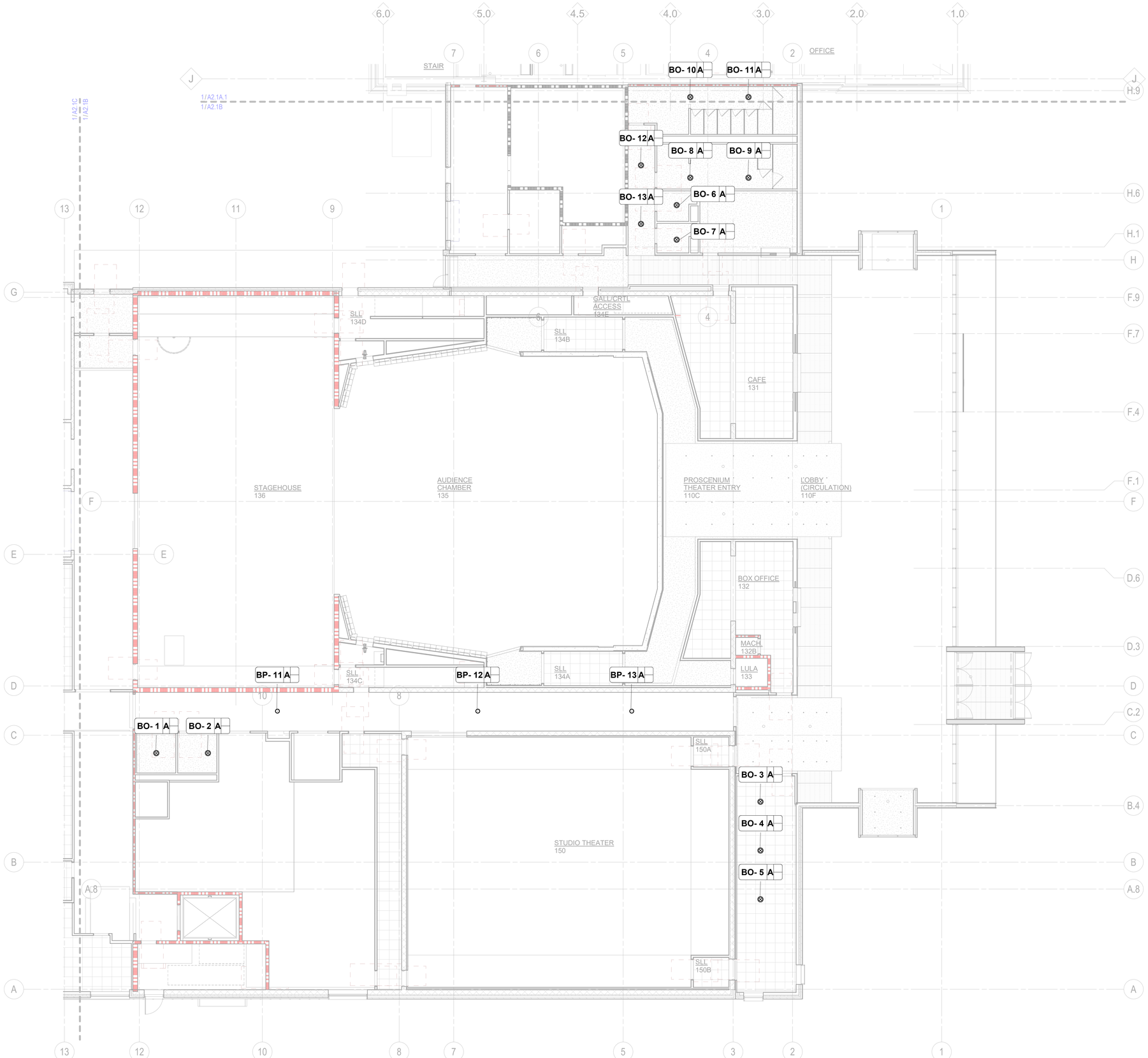
Drawing No:

PLAN NORTH TRUE NORTH

# AV1.5B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version




AV - LEVEL ONE RCP - B
1/8" = 1'-0"

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HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
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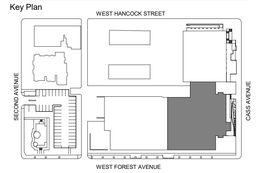
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
# AV - LEVEL ONE REFLECTED CEILING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

PLAN NORTH TRUE NORTH

# AV2.1B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

AV - LEVEL ONE RCP - C
1/8" = 1'-0"

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HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
AV - LEVEL ONE REFLECTED CEILING PLAN - SECTOR C

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

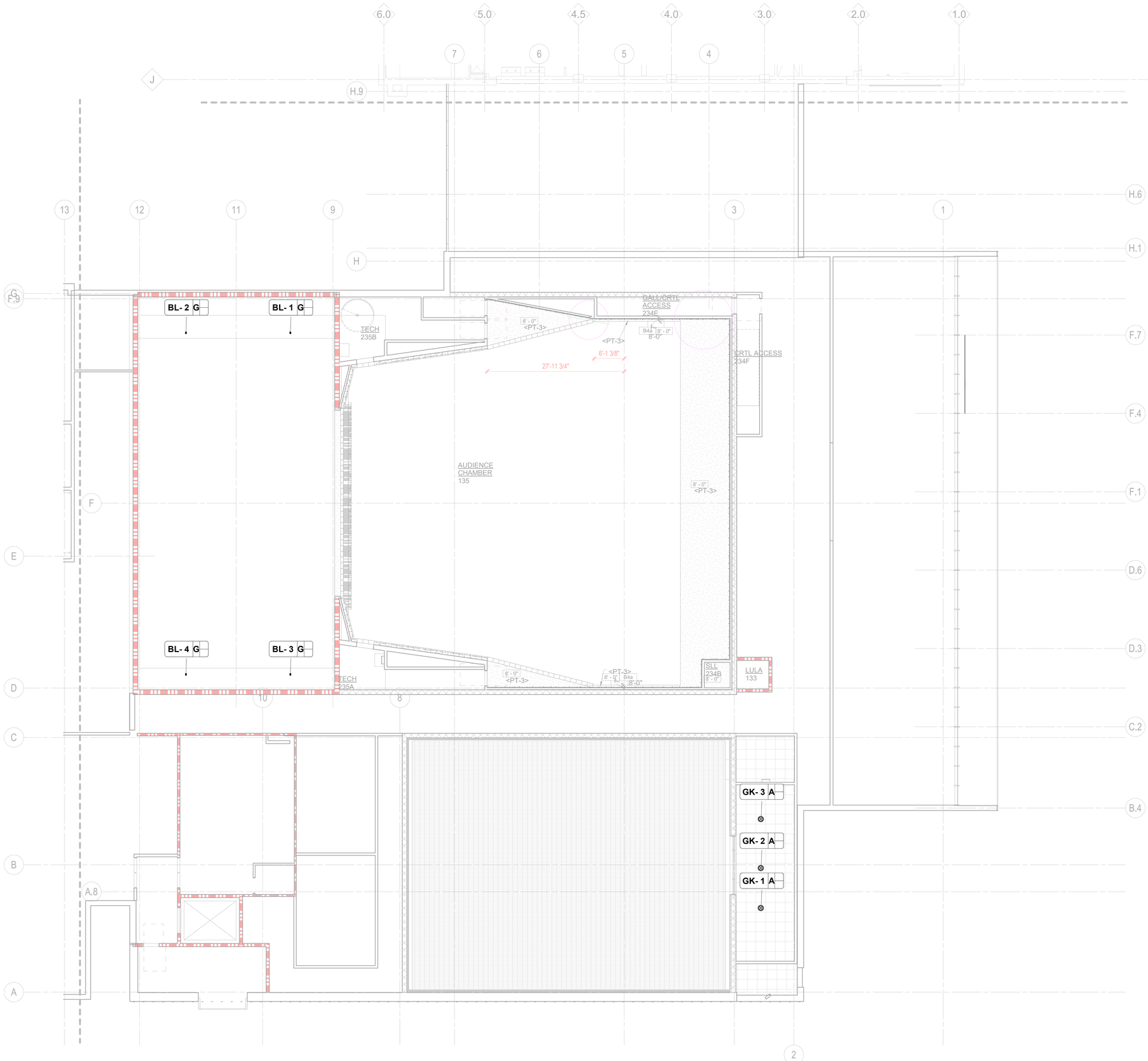
Drawing No:

PLAN NORTH TRUE NORTH

AV2.1C

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
- Template Version




AV - UPPER LEVEL RCP - B
1/8" = 1'-0"

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WAYNE STATE UNIVERSITY

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|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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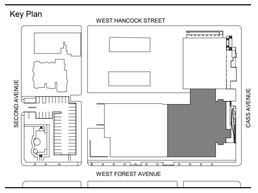
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - UPPER LEVEL REFLECTED CEILING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

PLAN NORTH TRUE NORTH

# AV2.2B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-399500100.rvt

Sheet Size: 30" x 42"
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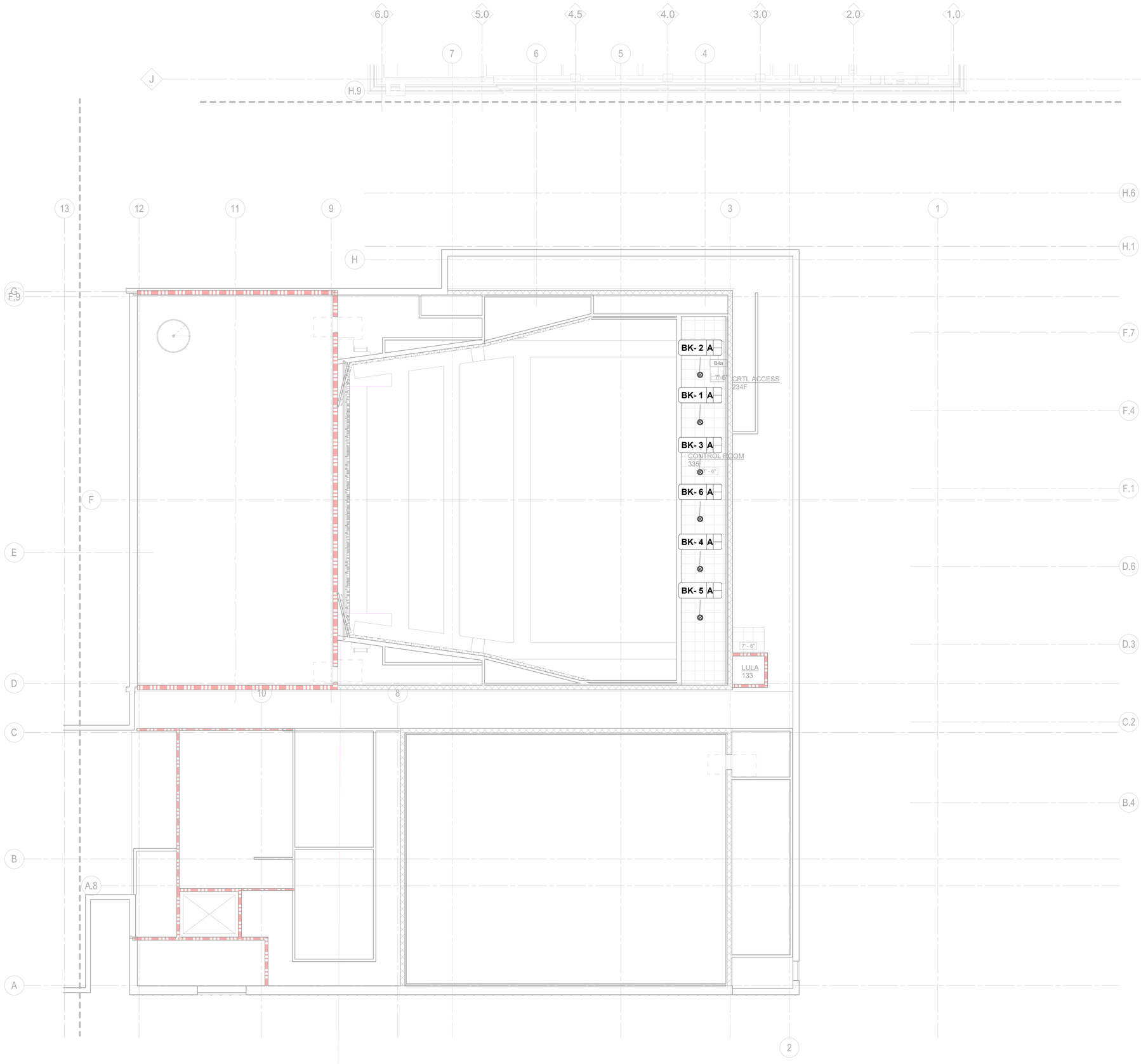


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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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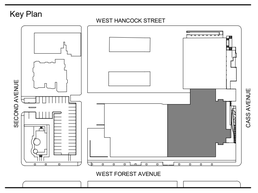
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV - CONTROL LEVEL REFLECTED CEILING PLAN - SECTOR B

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1/8" = 1'-0"

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# AV2.3B

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-399500100.rvt

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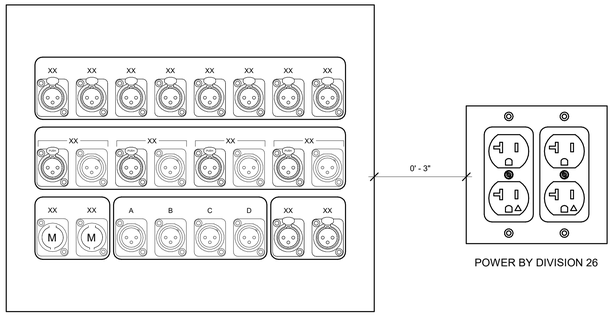
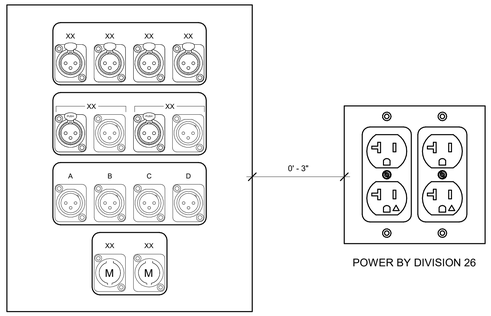
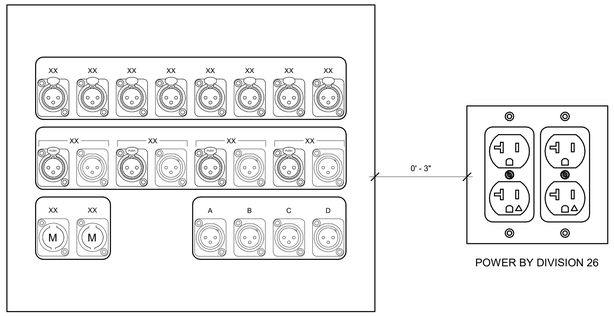
- Template Version



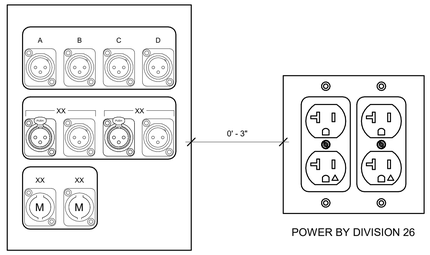

1 Panel AA - DOWNSTAGE INTERFACE
BOX TYPE - 10x12x6



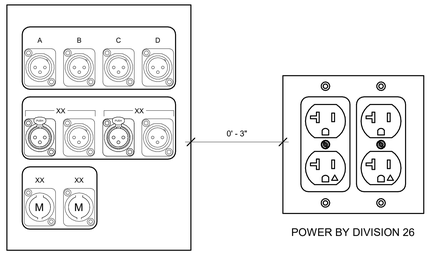

2 Panel AB - UPSTAGE INTERFACE
BOX TYPE - 10x8x4



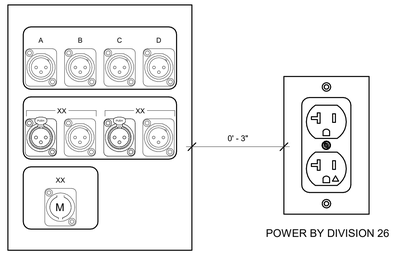

3 Panel AC - UPSTAGE CENTER INTERFACE
BOX TYPE - 10x12x6



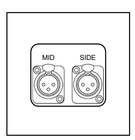

4 Panel AD - ORCHESTRA PIT INTERFACE
BOX TYPE - 8x6x4



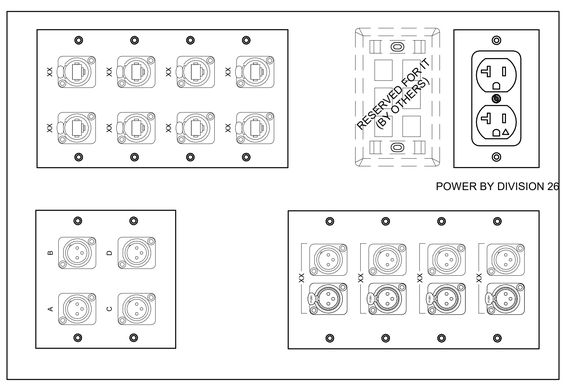

5 Panel AF - TRAP ROOM INTERFACE
BOX TYPE - 8x6x4



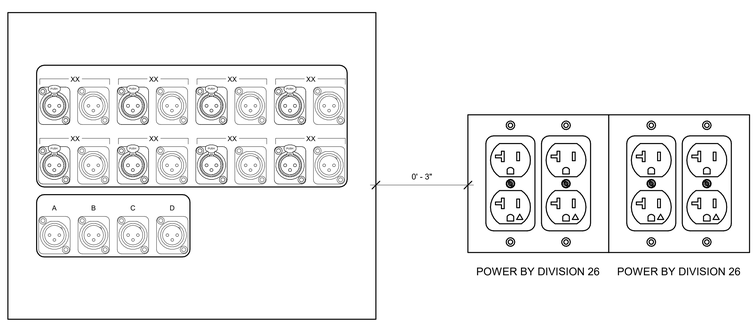

6 Panel AH - ANCILLARY INTERFACE - STAGE
BOX TYPE - 8x6x4




7 Panel AI - LIVE ROOM MICROPHONE INTERFACE
BOX TYPE - 4x4x4




8 Panel AJ - HOUSE MIX INTERFACE
BOX TYPE - FL-600-P-6-B




9 Panel AK - BOOTH MIX INTERFACE
BOX TYPE - 10x12x6

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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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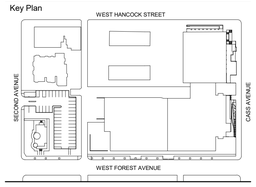
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
AV PLATES AND PANELS 1

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

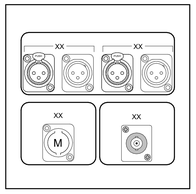
Signature:

Drawing No:

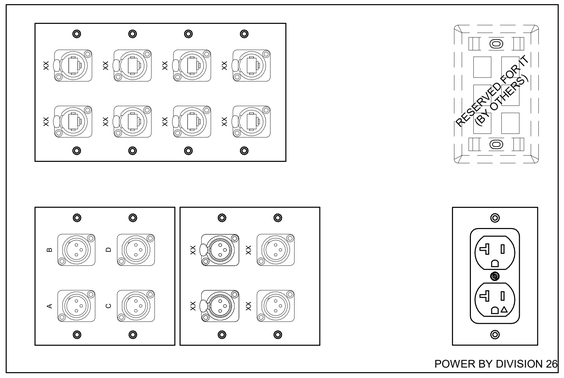
AV9.1

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001/00.rvt

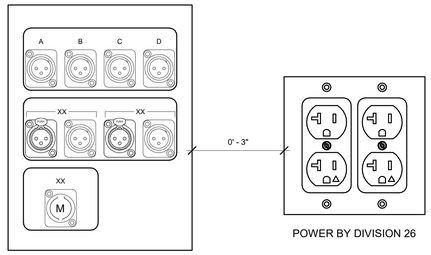
Sheet Size: 30" x 42"
- Template Version



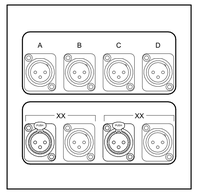

1 Panel AR - BALCONY RAIL INTERFACE
BOX TYPE - 6x6x6



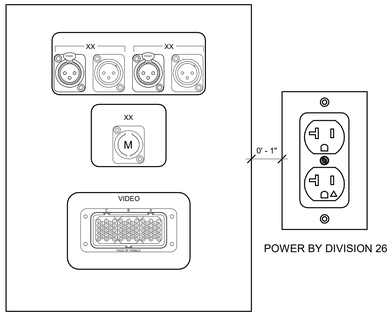

2 Panel AT - TECH TABLE INTERFACE
BOX TYPE - FL-600-P-6-B




3 Panel AU - ANCILLARY INTERFACE - HOUSE
BOX TYPE - 8x6x4




4 Panel AW - FOLLOW SPOT BOOTH INTERFACE
BOX TYPE - 6x6x4




5 Panel AZ - PTZ CAMERA INTERFACE
BOX TYPE - 10x8x4

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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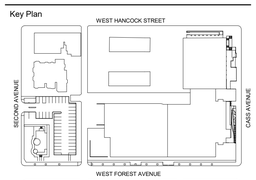
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV PLATES AND PANELS 2

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

FOR REFERENCE ONLY -
NOT FOR CONSTRUCTION

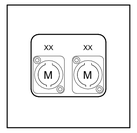
Signature:

Drawing No:

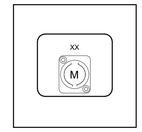
# AV9.2

BIM 360://WSU Hillberry Gateway/AV18-WSU Hillberry Gateway-3995001100.rvt

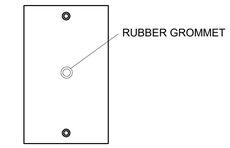
Sheet Size: 30" x 42"
- Template Version



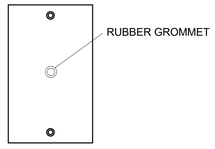

1 Panel BA - SIDE LOUDSPEAKER
BOX TYPE - 4x4x4



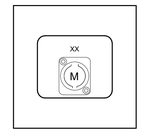

2 Panel BB - CENTER LOUDSPEAKER
BOX TYPE - 4x4x4



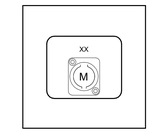

3 Panel BD - FRONT FILL INTERFACE
BOX TYPE - SINGLE GANG



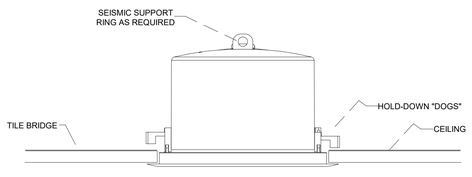

4 Panel BE - PIT RAIL INTERFACE
BOX TYPE - SINGLE GANG




5 Panel BI - SURROUND INTERFACE
BOX TYPE - 4x4x4

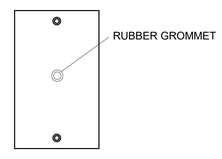



6 Panel BJ - BOOTH AUDIO MONITOR - SURFACE
BOX TYPE - 4x4x4

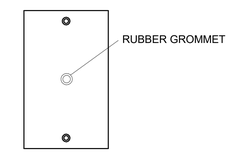



NOTES:
1. AUDIO CONTRACTOR RESPONSIBLE FOR DETERMINING FINAL MOUNTING METHOD AND REQUIRED MOUNTING ACCESSORIES BASED ON CEILING TYPE AND INSTALLATION REQUIREMENTS.
2. USE SHORT LENGTH OF FLEX CONDUIT FROM ADJACENT LOW-VOLTAGE J-BOX TO RUN SIGNAL CABLE.

7 Panel BK - BOOTH AUDIO MONITOR - CEILING




8 Panel BL - ON STAGE PAGE
BOX TYPE - SINGLE GANG




9 Panel BM - SURFACE MOUNT P&P LOUDSPEAKER
BOX TYPE - SINGLE GANG

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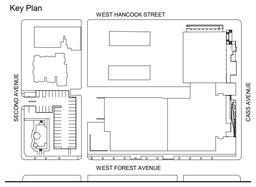
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
AV PLATES AND PANELS 3

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

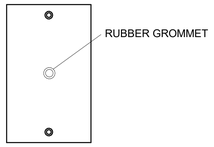
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

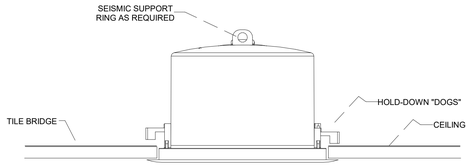
Drawing No:
AV9.3

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
- Template Version

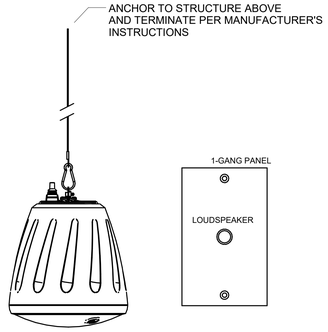



1 Panel BN - SURFACE MOUNT P&P LOUDSPEAKER BOX TYPE - SINGLE GANG



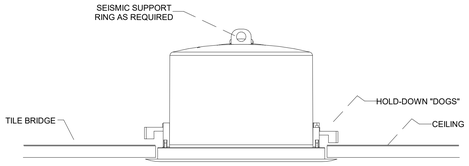

NOTES:
1. AUDIO CONTRACTOR RESPONSIBLE FOR DETERMINING FINAL MOUNTING METHOD AND REQUIRED MOUNTING ACCESSORIES BASED ON CEILING TYPE AND INSTALLATION REQUIREMENTS.
2. USE SHORT LENGTH OF FLEX CONDUIT FROM ADJACENT LOW-VOLTAGE J-BOX TO RUN SIGNAL CABLE.

2 Panel BO - CEILING P&P LOUDSPEAKER




NOTE:
CONCEPT ONLY; AUDIO CONTRACTOR RESPONSIBLE FOR DETERMINING
FINAL MOUNTING METHOD AND REQUIRED MOUNTING ACCESORIES BASED ON CEILING TYPE AND INSTALLATION REQUIREMENTS.

3 Panel BP - CEILING P&P LOUDSPEAKER




NOTES:
1. AUDIO CONTRACTOR RESPONSIBLE FOR DETERMINING FINAL MOUNTING METHOD AND REQUIRED MOUNTING ACCESSORIES BASED ON CEILING TYPE AND INSTALLATION REQUIREMENTS.
2. USE SHORT LENGTH OF FLEX CONDUIT FROM ADJACENT LOW-VOLTAGE J-BOX TO RUN SIGNAL CABLE.

4 Panel BQ - CEILING P&P LOUDSPEAKER

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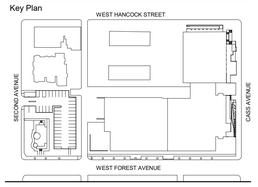
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
AV PLATES AND PANELS 4

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

AV9.4

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001001.rvt

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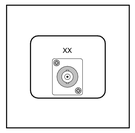
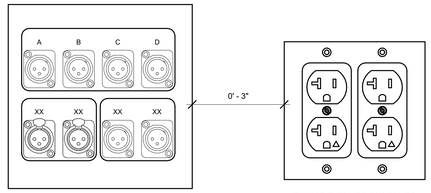
- Template Version

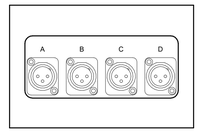



1 Panel ALS ANTENNA
BOX TYPE - 4x4x4

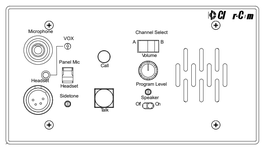



POWER BY DIVISION 26

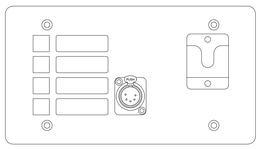
2 Panel CC - STAGE MANAGER INTERFACE
BOX TYPE - 6x6x4



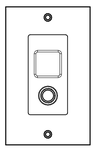

3 Panel CD - INTERCOM PLUG BOX
BOX TYPE - 4x6x4



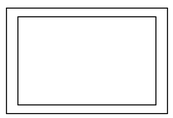

4 Panel CE - INTERCOM WALL BOX
BOX TYPE - 4 GANG



5 Panel CF - PAGING INTERFACE
BOX TYPE - 4 GANG



6 Panel CI - VOLUME CONTROL - IP
BOX TYPE - SINGLE GANG



7 Panel CX - CONTROL PANEL
BOX TYPE - 4 GANG

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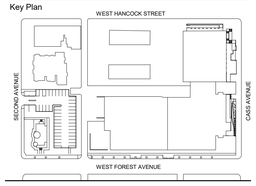
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV PLATES AND PANELS 5

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# AV9.5

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001/00.rvt

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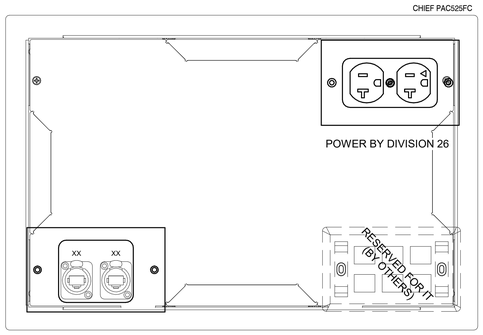
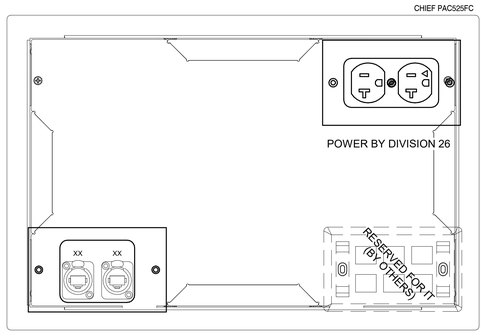
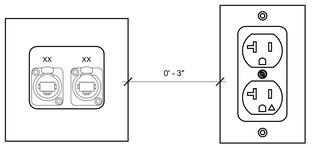
- Template Version



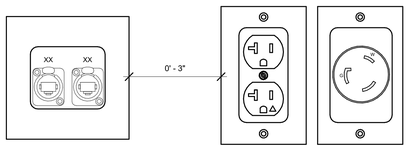

1 Panel DA - DISPLAY INTERFACE - SHOW FEED
BOX TYPE - CHIEF PAC 525




2 Panel DB - DISPLAY INTERFACE - DIGITAL SIGNAGE
BOX TYPE - CHIEF PAC 525




3 Panel DD - DISPLAY INTERFACE - SHOW FEED
BOX TYPE - 4x4x4




4 Panel DP - PROJECTOR INTERFACE
BOX TYPE - 4x4x4

BIM 360://WSU Hillberry Gateway/AV18-WSU Hillberry Gateway-3995001100.rvt

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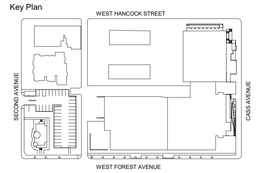
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV PLATES AND PANELS 6

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

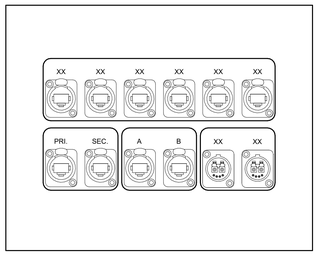
FOR REFERENCE ONLY -
NOT FOR CONSTRUCTION

Signature:

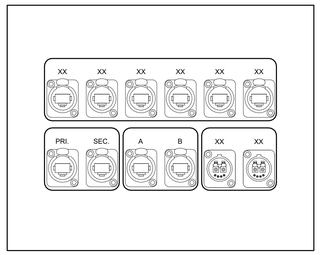
Drawing No:

# AV9.6

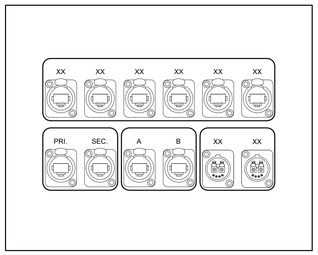
Sheet Size: 30" x 42"
- Template Version



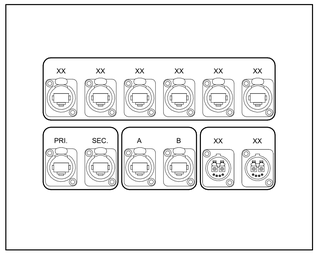

1 Panel EA - DOWNSTAGE INTERFACE
BOX TYPE - 8x10x4



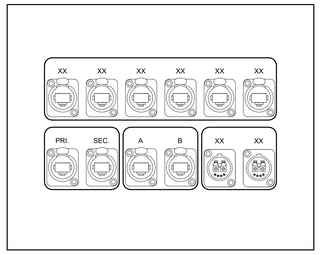

2 Panel EB - OFFSTAGE INTERFACE
BOX TYPE - 8x10x4



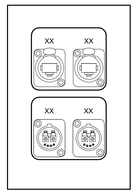

3 Panel EC - UPSTAGE INTERFACE
BOX TYPE - 8x10x4



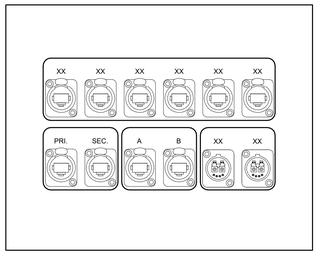

4 Panel ED - ORCHESTRA PIT INTERFACE
BOX TYPE - 8x10x4



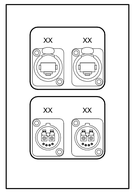

5 Panel EF - TRAP ROOM INTERFACE
BOX TYPE - 8x10x4



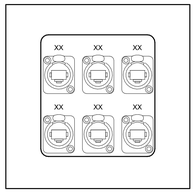

6 Panel EH - ANCILLARY INTERFACE - STAGE
BOX TYPE - 6x4x4




7 Panel EK - BOOTH MIX INTERFACE
BOX TYPE - 8x10x4




8 Panel ER - BALCONY RAIL INTERFACE
BOX TYPE - 6x4x4




9 Panel ES - STAGE MANAGER INTERFACE
BOX TYPE - 6x6x4

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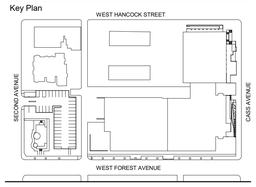
DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV PLATES AND PANELS 7

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

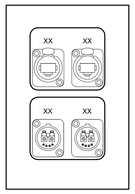
Signature:

Drawing No:

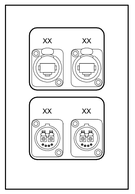
# AV9.7

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

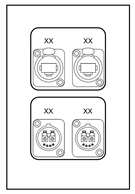
Sheet Size: 30" x 42"
- Template Version




1 Panel EU - ANCILLARY INTERFACE - HOUSE
BOX TYPE - 6x4x4




2 Panel EW - SPOT BOOTH INTERFACE
BOX TYPE - 6x4x4




3 Panel EZ - PTZ CAMERA INTERFACE
BOX TYPE - 6x4x4

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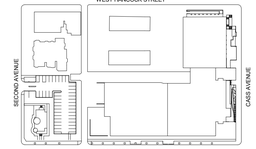
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV PLATES AND PANELS 8

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# AV9.8

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001100.rvt

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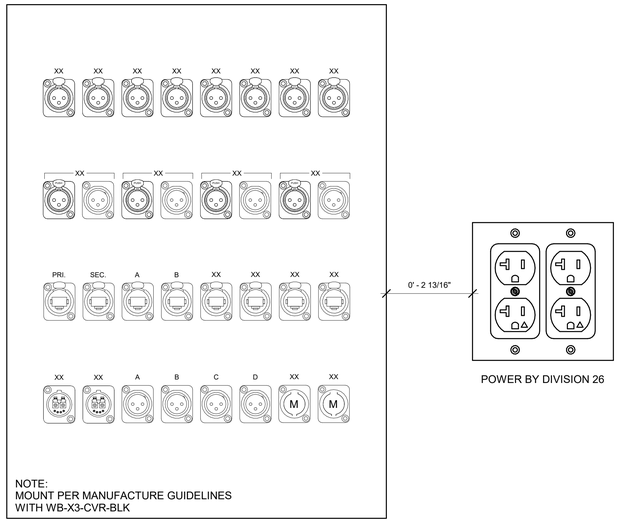
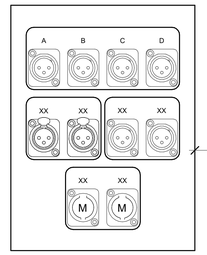
- Template Version

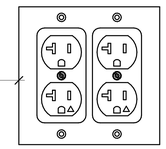




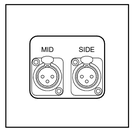


1 Panel FA - STAGE INTERFACE
BOX TYPE - FSR WB-X3-XLR

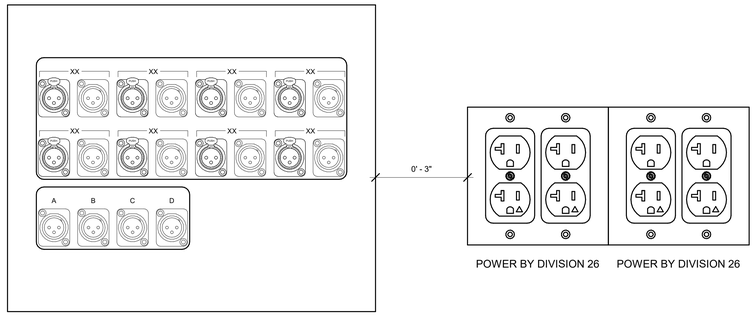


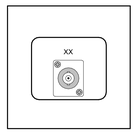

2 Panel FH - GALLERY/GRID INTERFACE
BOX TYPE - 8x6x4



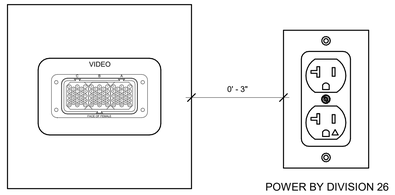

3 Panel FI - LIVE ROOM MICROPHONE INTERFACE
BOX TYPE - 4x4x4




4 Panel FK - BOOTH MIX INTERFACE
BOX TYPE - 10x12x6




5 Panel FM - RF MIC ANTENNA
BOX TYPE - 4x4x4




6 Panel FZ - PTZ CAMERA INTERFACE
BOX TYPE - 6x6x4

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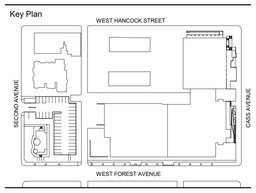
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV PLATES AND PANELS 9

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# AV9.9

BIM 360://WSU Hilberry Gateway/AV18-WSU Hilberry Gateway-3995001001.rvt

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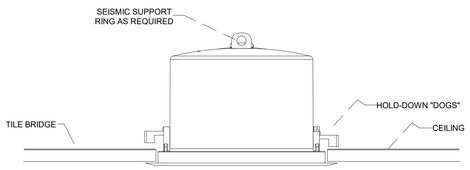
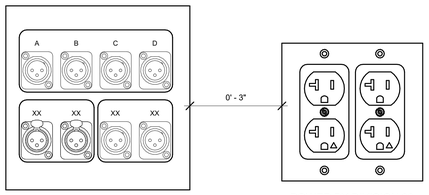
- Template Version

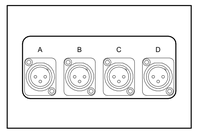



NOTES:
1. AUDIO CONTRACTOR RESPONSIBLE FOR DETERMINING FINAL MOUNTING METHOD AND REQUIRED MOUNTING ACCESSORIES BASED ON CEILING TYPE AND INSTALLATION REQUIREMENTS.
2. USE SHORT LENGTH OF FLEX CONDUIT FROM ADJACENT LOW-VOLTAGE J-BOX TO RUN SIGNAL CABLE.

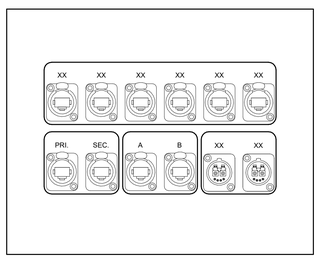
1 Panel GK - BOOTH AUDIO MONITOR - CEILING



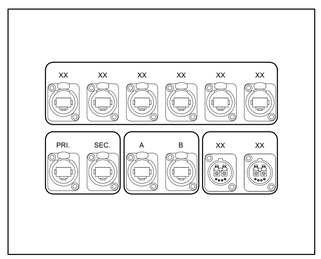

2 Panel HC - STAGE MANAGER INTERFACE
BOX TYPE - 6x6x4



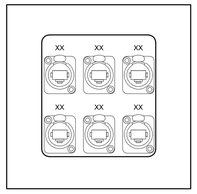

3 Panel HD - INTERCOM PLUG BOX
BOX TYPE - 4x6x4




4 Panel KH - GALLERY/GRID INTERFACE
BOX TYPE - 8x10x4




5 Panel KK - BOOTH MIX INTERFACE
BOX TYPE - 8x10x4




6 Panel KS - STAGE MANAGER INTERFACE
BOX TYPE - 6x6x4

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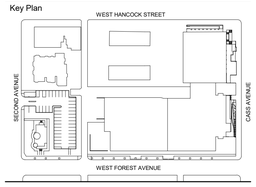
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT JAN. 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## AV PLATES AND PANELS 10

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

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Signature:

Drawing No:

# AV9.10

BIM 360://WSU Hillberry Gateway/AV18-WSU Hillberry Gateway-3995001100.rvt

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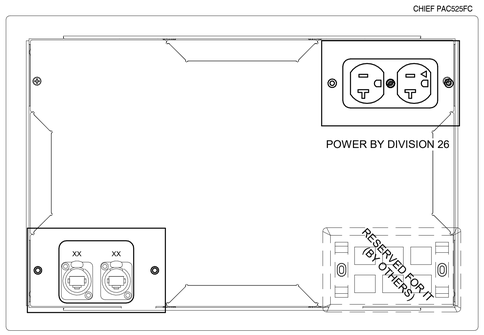
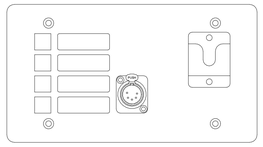
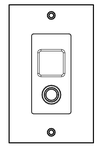
- Template Version



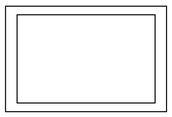

1 Panel SA - DISPLAY INTERFACE - SHOW FEED
BOX TYPE - CHIEF PAC 525



2 Panel SF - PAGING INTERFACE
BOX TYPE - 4 GANG



3 Panel SI - VOLUME CONTROL - IP
BOX TYPE - SINGLE GANG



4 Panel SX - CONTROL PANEL
BOX TYPE - 4 GANG

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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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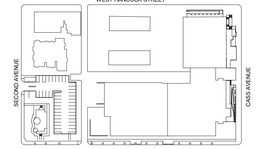
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN. 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## AV PLATES AND PANELS 11

Project Number: 3995-001-00

Drawn By: Designer

Scale: 1:2

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

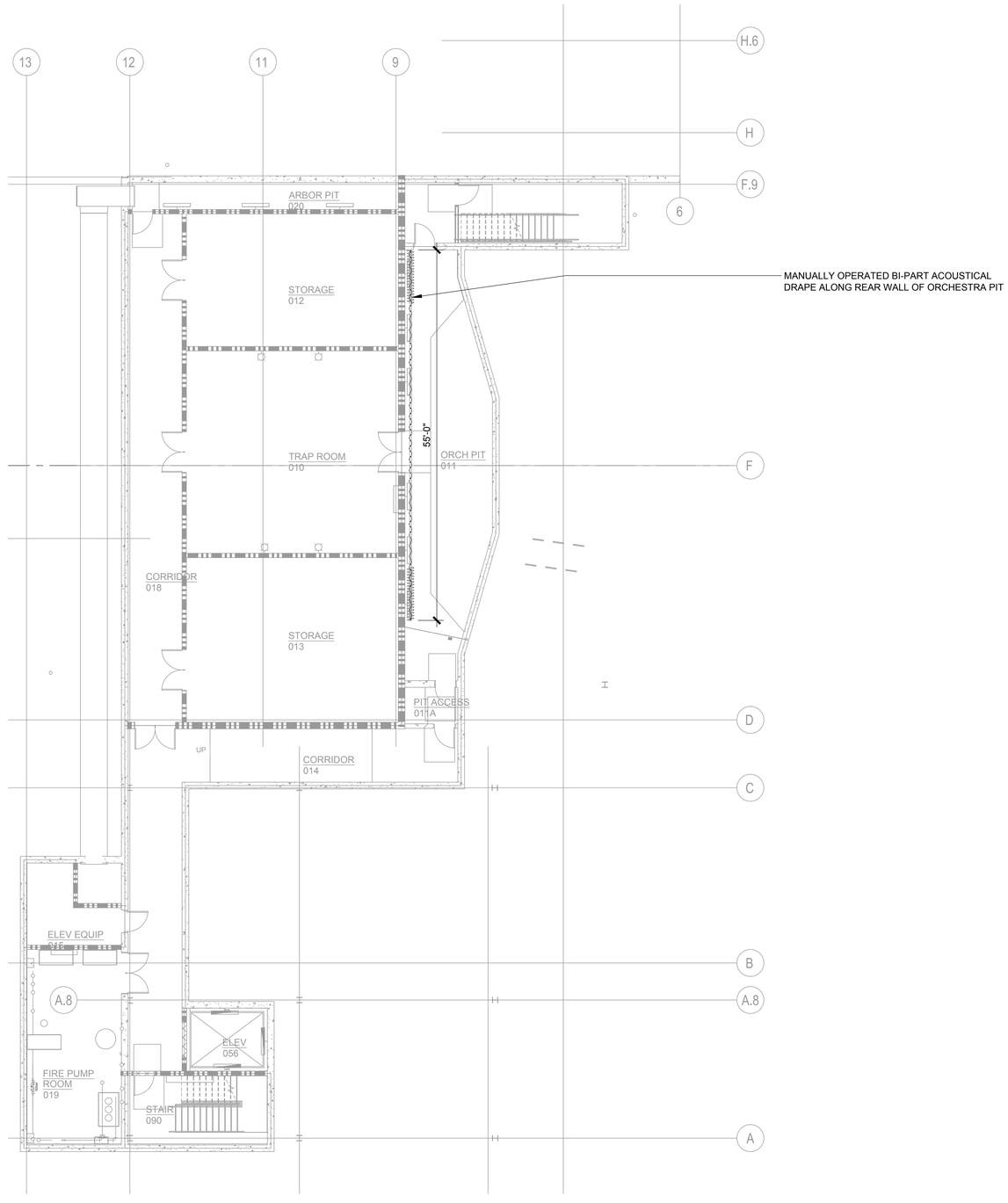
Signature:

Drawing No:

# AV9.11

BIM 360://WSU Hillberry Gateway/AV18-WSU Hillberry Gateway-3995001100.rvt

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL DRAPERY PLAN - LOWER LEVEL - SECTOR B
1/8"=1'-0"

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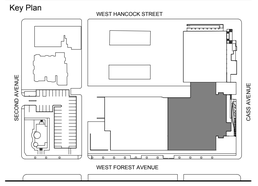
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL DRAPERY PLAN
LOWER LEVEL - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

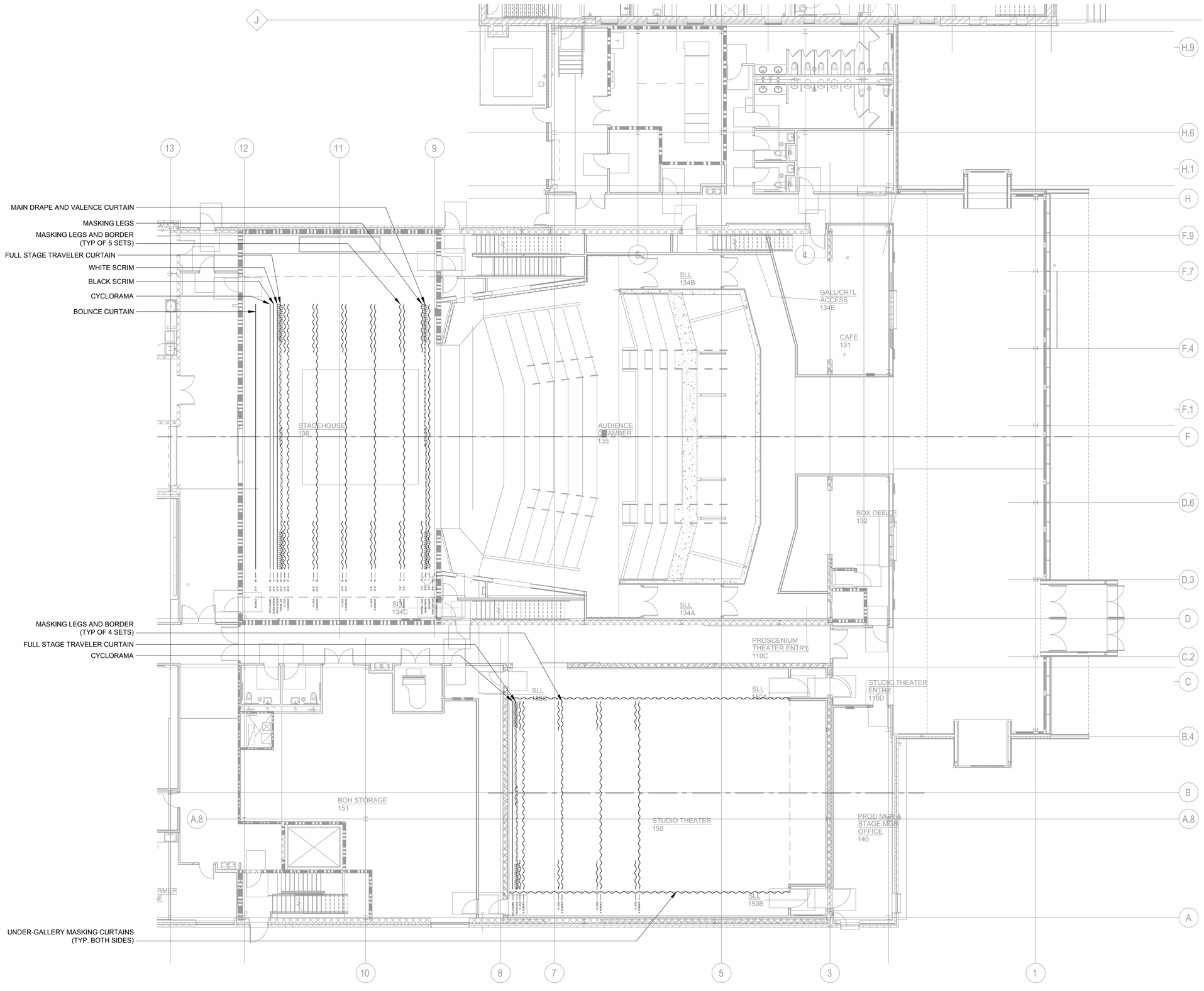
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TD1.0B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL DRAPERY PLAN - LEVEL ONE - SECTOR B
1/8"=1'-0"

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| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
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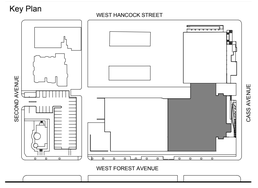
DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL DRAPERY PLAN
LEVEL ONE - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

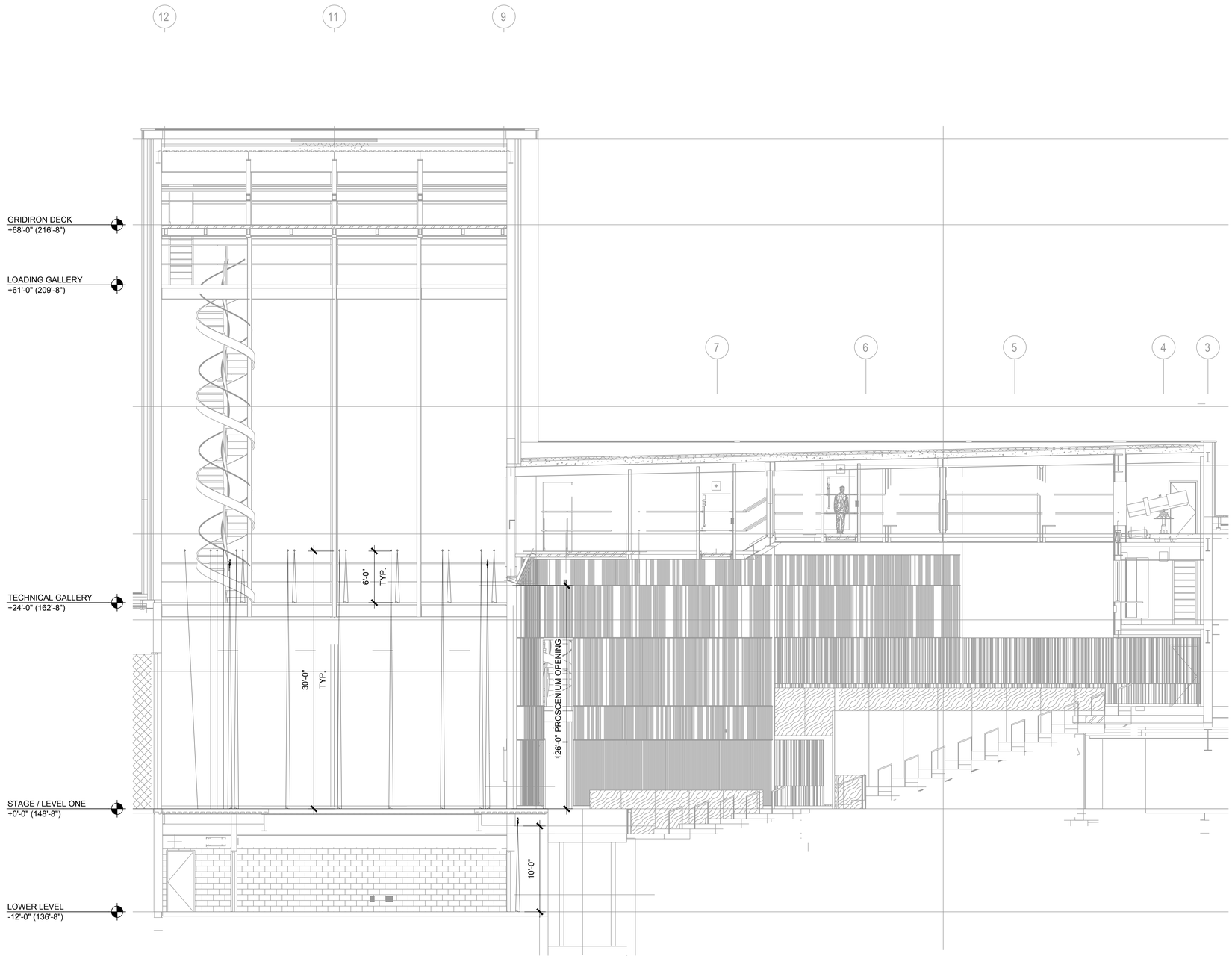
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TD1.1B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL DRAPERY CENTERLINE SECTION - PROSCENIUM THEATRE
3/16"=1'-0"

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WAYNE STATE UNIVERSITY

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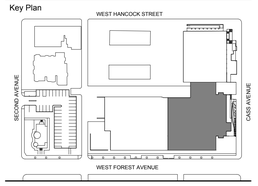
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL DRAPERY CENTERLINE SECTION PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

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Drawing No:

TD3.11B

Sheet Size: 30" x 42"
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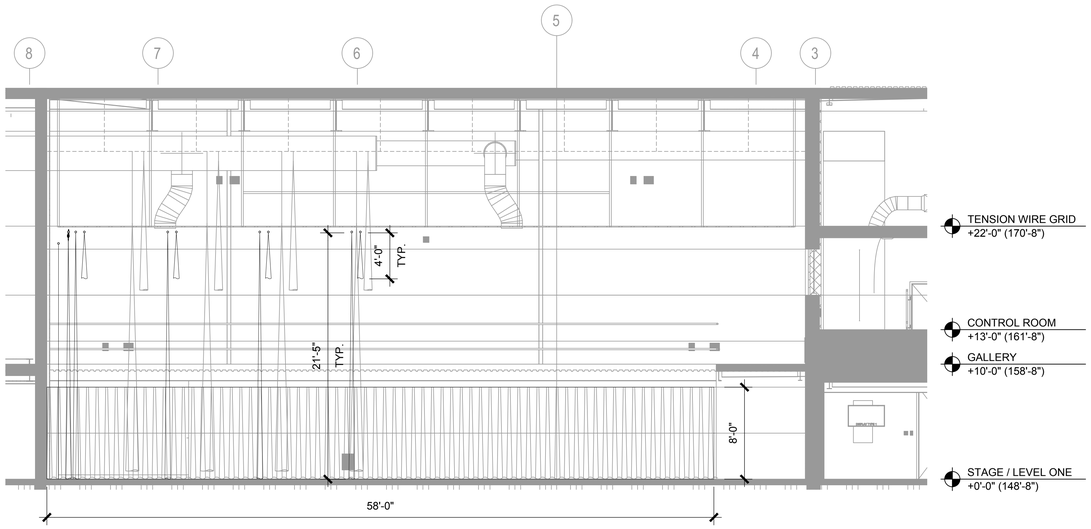


1 THEATRICAL RIGGING CENTERLINE SECTION - STUDIO THEATRE
3/16"=1'-0"

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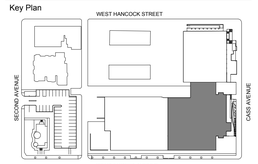
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN 30, 2019

Project
WSU - GATEWAY
THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL DRAPERY
SECTIONS
STUDIO THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

FOR REFERENCE ONLY -
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Signature:

Drawing No:

TD3.21B

Sheet Size: 30" x 42"
: Template Version

**PROSCENIUM THEATRE**

| DRAPERY | LOCATION | QTY | HEIGHT | WIDTH | COLOR | FABRIC - DRAPE/LINING | FULLNESS | NOTES |
|---|---|---|---|---|---|---|---|---|
| MAIN DRAPE | DOWNSTAGE | 2 | 28'-0" | 29'-6" | TBD BY ARCHITECT | 25 OZ. VELOUR | 75% SEWN | W/ BOTTOM CHAIN |
| MAIN VALANCE | DOWNSTAGE | 1 | 6'-0" | 54'-0" | TBD BY ARCHITECT | 25 OZ. VELOUR | 75% SEWN | W/ BOTTOM CHAIN |
| MASKING LEG | VARIES | 10 | 30'-0" | 10'-0" | BLACK | 25 OZ. VELOUR | SEWN FLAT | W/ BOTTOM POCKET & CHAIN |
| MASKING BORDER | VARIES | 5 | 6"-0" | 54'-0" | BLACK | 25 OZ. VELOUR | SEWN FLAT | |
| FULL STAGE TRAVELER | UPSTAGE | 2 | 28'-0" | 29'-6" | BLACK | 25 OZ. VELOUR | 75% SEWN | W/ BOTTOM POCKET & CHAIN |
| CYCLORAMA | UPSTAGE | 1 | 30'-0" | 54'-0" | WHITE | FILLED LENO | SEWN FLAT | W/ BOTTOM POCKET & PIPE |
| SCRIM | UPSTAGE | 1 | 30'-0" | 54'-0" | BLACK | SCRIM | SEWN FLAT | W/ BOTTOM POCKET & PIPE |
| SCRIM | UPSTAGE | 1 | 30'-0" | 54'-0" | WHITE | SCRIM | SEWN FLAT | W/ BOTTOM POCKET & PIPE |
| BOUNCE | UPSTAGE | 1 | 30'-0" | 54'-0" | WHITE | MUSLIN | SEWN FLAT | W/ BOTTOM POCKET & PIPE |
| ORCH. PIT ACOUSTICAL | ORCHESTRA | 2 | 10'-0" | 28'-0" | BLACK | 25 OZ. VELOUR | 100% SEWN | W/ BOTTOM POCKET & CHAIN |
| STORAGE BAG | | | | | | | | PROVIDE SUFFICIENT QUANTITY FOR ALL DRAPES IN THIS ROOM |

**STUDIO THEATRE**

| DRAPERY | LOCATION | QTY | HEIGHT | WIDTH | COLOR | FABRIC - DRAPE/LINING | FULLNESS | NOTES |
|---|---|---|---|---|---|---|---|---|
| MASKING LEG | VARIES | 8 | 21'-6" | 6'-0" | BLACK | 25 OZ. VELOUR | 75% SEWN | W/ BOTTOM CHAIN |
| MASKING BORDER | VARIES | 4 | 4'-0" | 39'-0" | BLACK | 25 OZ. VELOUR | 75% SEWN | W/ BOTTOM CHAIN |
| TRAVELLER | UPSTAGE | 2 | 20'-6" | 21'-6" | BLACK | 25 OZ. VELOUR | 75% SEWN | W/ BOTTOM CHAIN |
| CYCLORAMA | UPSTAGE | 1 | 21'-6" | 39'-0" | WHITE | FILLED LENO | SEWN FLAT | W/ BOTTOM CHAIN |
| TAB LEGS | UNDER GALLERY | 12 | 8'-0" | 6'-0" | BLACK | 25 OZ. VELOUR | 25% SEWN | W/ BOTTOM CHAIN |
| CANVAS STORAGE BAGS | | | | | | | | PROVIDE SUFFICIENT QUANTITY FOR ALL DRAPES IN THIS ROOM |

1 THEATRICAL DRAPERY SCHEDULE - PROSCENIUM & STUDIO THEATRE
NOT TO SCALE

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Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

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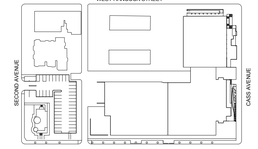
Acoustics — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL DRAPERY SCHEDULES

Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

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Signature:

Drawing No:
TD8.1

Sheet Size: 30" x 42"
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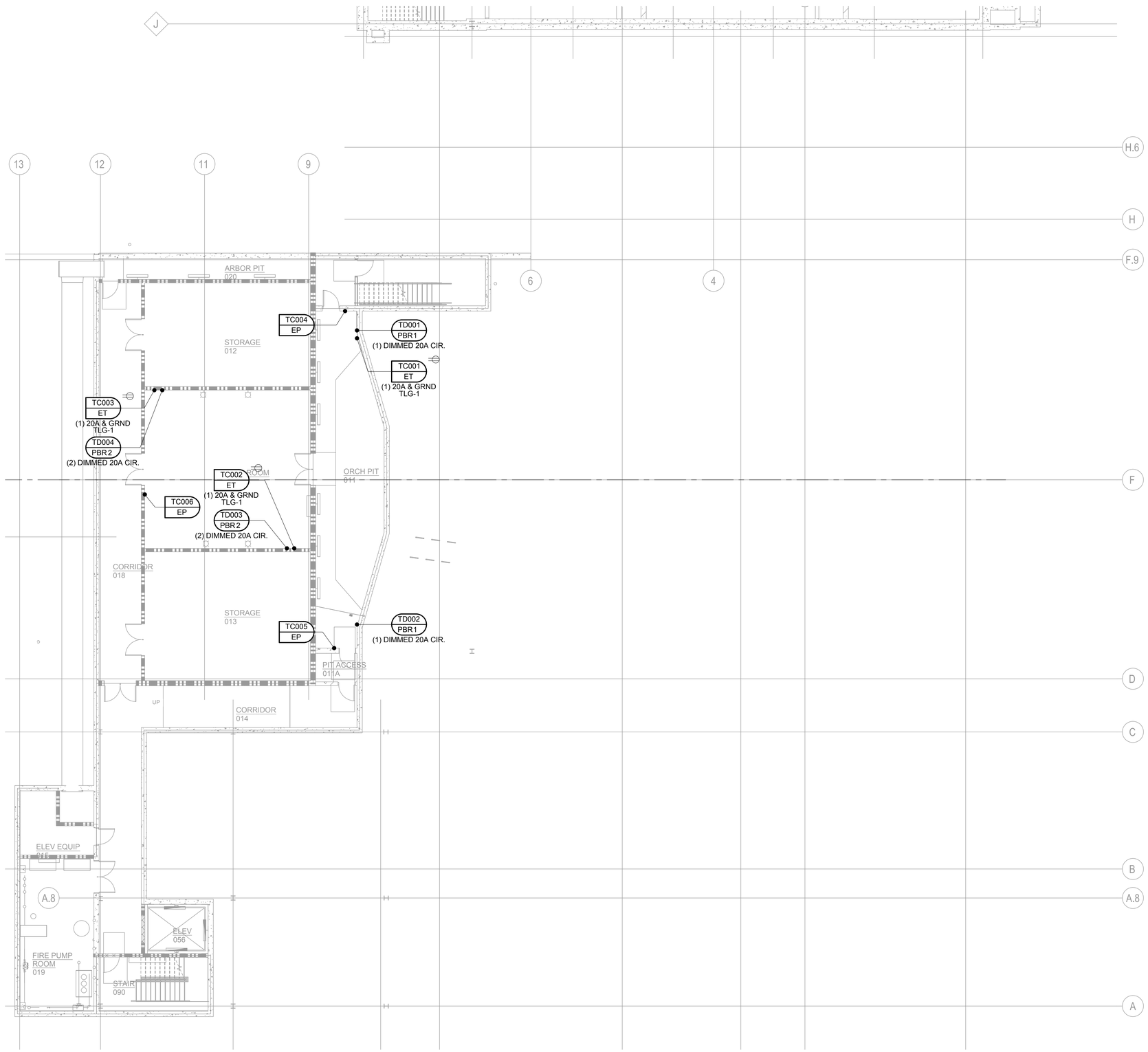


1 THEATRICAL LIGHTING SYSTEM PLAN - LOWER LEVEL - SECTOR B
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

## LIGHTING SYMBOL KEY

### CONTROL PANELS & RECEPTACLES

- TC□ HL — HOUSE LIGHTING PANEL (TOUCHSCREEN)
- TC□ PP — HOUSE LIGHTING PRESET PANEL
- TC□ EP — HOUSE LIGHTING ENTRY PANEL
- TC□ ET — THEATRE LIGHTING NETWORK ETHERNET TAP
- TC□ EN — THEATRE LIGHTING NETWORK GATEWAY
- TC□ CC — THEATRE LIGHTING NETWORK CONTROL CONSOLE PLUG-IN

### POWER DISTRIBUTION

- TD□ PSP — THEATRE LIGHTING PLUGGING STRIP WITH PIGTAILS
- TD□ PBR — THEATRE LIGHTING PLUGGING BOX WITH RECEPTACLE
- TD□ MBR — THEATRE LIGHTING MULTI BOX WITH RECEPTACLE
- TD□ MBP — THEATRE LIGHTING MULTI BOX WITH PIGTAILS
- 20A 120V DUPLEX LIGHTING SYSTEM RECEPTACLE
- 20A 120V QUAD LIGHTING SYSTEM RECEPTACLE
- 20A 120/208V 3-PHASE RECEPTACLE
- 120/208V 3-PHASE COMPANY SWITCH AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- 60A CO-TL-□ — 120/208V COMPANY SWITCH RECEPTACLE AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- HORIZONTAL CABLE PASS AT 18" AFF (UNDER DIV. 26 & ARCHITECTURAL WORK)
- VERTICAL CABLE PASS IN FLOOR / CEILING (UNDER DIV. 26 & ARCHITECTURAL WORK)

## GENERAL NOTES

1. THE LIGHTING SYSTEM SHOWN ON THESE SHEETS IS BASED ON A "20A POWER RECEPTACLE PER CIRCUIT" CONCEPT. EACH RECEPTACLE IS WIRED TO THE DIMMER RACK SLOT OR CONTROLLED BREAKER WITH THE SAME NUMBER DESIGNATION.
2. ALL CONDUIT, WIRE, MOUNTING, POWER FEEDS AND POWER TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
3. REFER TO DIVISION 26 SPECIFICATIONS AND DRAWINGS FOR ALL PANELBOARD DESIGNATIONS.
4. ALL DEVICES & CONTROL WIRE TERMINATIONS BY DIVISION 26 CONTRACTOR UNLESS OTHERWISE NOTED.
5. EXACT SIZES OF BACK BOXES AND FINAL WIRE TYPES AND QUANTITIES TO BE VERIFIED BY LIGHTING CONTRACTOR.
6. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
7. NO COMMON NEUTRALS PERMITTED IN WIRING DEVICES. EACH CIRCUIT MUST HAVE INDIVIDUAL HOT AND NEUTRAL CONDUCTORS WHICH HOMERUN TO THE DIMMER RACK OR CONTROLLED PANELBOARD.
6. ANY PARALLEL CIRCUITS MUST HAVE INDIVIDUAL HOT AND NEUTRAL CONDUCTORS WHICH HOMERUN TO THE DIMMER RACK OR CONTROLLED PANELBOARD.
7. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
8. NO CONDUIT OR CONDUIT SUPPORTS PERMITTED ON LIGHTING PIPES OR LIGHTING POSITIONS.
9. SEE SCHEDULES ON TL600-SERIES SHEETS FOR DEVICE MOUNTING INFORMATION.


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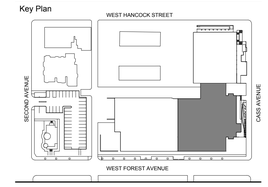
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL LIGHTING SYSTEM PLAN LOWER LEVEL - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

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Signature:

Drawing No:

# TL1.0B

Sheet Size: 30" x 42"
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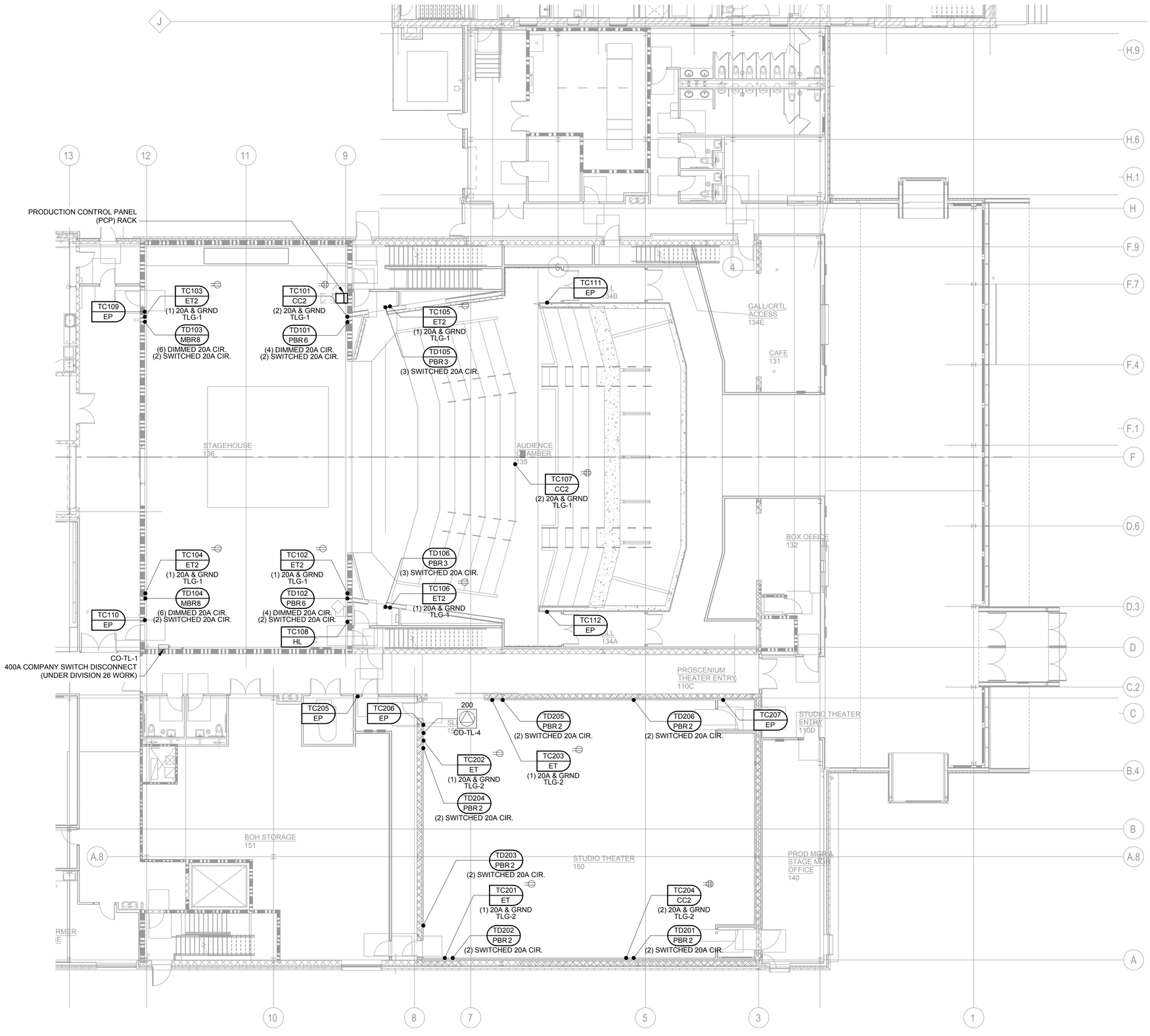


1 THEATRICAL LIGHTING SYSTEM PLAN - LEVEL ONE - SECTOR B
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

## LIGHTING SYMBOL KEY

### CONTROL PANELS & RECEPTACLES

- TC□ HL — HOUSE LIGHTING PANEL (TOUCHSCREEN)
- TC□ PP — HOUSE LIGHTING PRESET PANEL
- TC□ EP — HOUSE LIGHTING ENTRY PANEL
- TC□ ET — THEATRE LIGHTING NETWORK ETHERNET TAP
- TC□ EN — THEATRE LIGHTING NETWORK GATEWAY
- TC□ CC — THEATRE LIGHTING NETWORK CONTROL CONSOLE PLUG-IN

### POWER DISTRIBUTION

- TD□ PSP — THEATRE LIGHTING PLUGGING STRIP WITH PIGTAILS
- TD□ PBR — THEATRE LIGHTING PLUGGING BOX WITH RECEPTACLE
- TD□ MBR — THEATRE LIGHTING MULTI BOX WITH RECEPTACLE
- TD□ MBP — THEATRE LIGHTING MULTI BOX WITH PIGTAILS
- 20A 120V DUPLEX LIGHTING SYSTEM RECEPTACLE
- 20A 120V QUAD LIGHTING SYSTEM RECEPTACLE
- 20A 120/208V 3-PHASE RECEPTACLE
- 120/208V 3-PHASE COMPANY SWITCH AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- 60A CO-TL-□ — 120/208V COMPANY SWITCH RECEPTACLE AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- HORIZONTAL CABLE PASS AT 18" AFF (UNDER DIV. 26 & ARCHITECTURAL WORK)
- VERTICAL CABLE PASS IN FLOOR / CEILING (UNDER DIV. 26 & ARCHITECTURAL WORK)

## GENERAL NOTES

1. THE LIGHTING SYSTEM SHOWN ON THESE SHEETS IS BASED ON A "20A POWER RECEPTACLE PER CIRCUIT" CONCEPT. EACH RECEPTACLE IS WIRED TO THE DIMMER RACK SLOT OR CONTROLLED BREAKER WITH THE SAME NUMBER DESIGNATION.
2. ALL CONDUIT, WIRE, MOUNTING, POWER FEEDS AND POWER TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
3. REFER TO DIVISION 26 SPECIFICATIONS AND DRAWINGS FOR ALL PANELBOARD DESIGNATIONS.
4. ALL DEVICES & CONTROL WIRE TERMINATIONS BY DIVISION 26 CONTRACTOR UNLESS OTHERWISE NOTED.
5. EXACT SIZES OF BACK BOXES AND FINAL WIRE TYPES AND QUANTITIES TO BE VERIFIED BY LIGHTING CONTRACTOR.
6. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
7. NO COMMON NEUTRALS PERMITTED IN WIRING DEVICES. EACH CIRCUIT MUST HAVE INDIVIDUAL HOT AND NEUTRAL CONDUCTORS WHICH HOMERUN TO THE DIMMER RACK OR CONTROLLED PANELBOARD.
6. ANY PARALLEL CIRCUITS MUST HAVE INDIVIDUAL HOT AND NEUTRAL CONDUCTORS WHICH HOMERUN TO THE DIMMER RACK OR CONTROLLED PANELBOARD.
7. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
8. NO CONDUIT OR CONDUIT SUPPORTS PERMITTED ON LIGHTING PIPES OR LIGHTING POSITIONS.
9. SEE SCHEDULES ON TL600-SERIES SHEETS FOR DEVICE MOUNTING INFORMATION.


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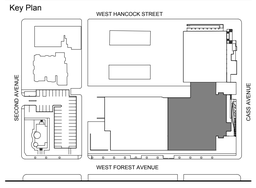
DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL LIGHTING SYSTEM PLAN LEVEL ONE - SECTOR B

Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
# TL1.1B

Sheet Size: 30" x 42"
- Template Version

1 THEATRICAL LIGHTING SYSTEM PLAN - LEVEL ONE - SECTOR C
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

## LIGHTING SYMBOL KEY

### CONTROL PANELS & RECEPTACLES

- TC□ HL — HOUSE LIGHTING PANEL (TOUCHSCREEN)
- TC□ PP — HOUSE LIGHTING PRESET PANEL
- TC□ EP — HOUSE LIGHTING ENTRY PANEL
- TC□ ET — THEATRE LIGHTING NETWORK ETHERNET TAP
- TC□ EN — THEATRE LIGHTING NETWORK GATEWAY
- TC□ CC — THEATRE LIGHTING NETWORK CONTROL CONSOLE PLUG-IN

### POWER DISTRIBUTION

- TD□ PSP — THEATRE LIGHTING PLUGGING STRIP WITH PIGTAILS
- TD□ PBR — THEATRE LIGHTING PLUGGING BOX WITH RECEPTACLE
- TD□ MBR — THEATRE LIGHTING MULTI BOX WITH RECEPTACLE
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- 20A 120V QUAD LIGHTING SYSTEM RECEPTACLE
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- 120/208V 3-PHASE COMPANY SWITCH AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- 60A CO-TL-□ — 120/208V COMPANY SWITCH RECEPTACLE AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- HORIZONTAL CABLE PASS AT 18" AFF (UNDER DIV. 26 & ARCHITECTURAL WORK)
- VERTICAL CABLE PASS IN FLOOR / CEILING (UNDER DIV. 26 & ARCHITECTURAL WORK)

## GENERAL NOTES

1. THE LIGHTING SYSTEM SHOWN ON THESE SHEETS IS BASED ON A "20A POWER RECEPTACLE PER CIRCUIT" CONCEPT. EACH RECEPTACLE IS WIRED TO THE DIMMER RACK SLOT OR CONTROLLED BREAKER WITH THE SAME NUMBER DESIGNATION.
2. ALL CONDUIT, WIRE, MOUNTING, POWER FEEDS AND POWER TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
3. REFER TO DIVISION 26 SPECIFICATIONS AND DRAWINGS FOR ALL PANELBOARD DESIGNATIONS.
4. ALL DEVICES & CONTROL WIRE TERMINATIONS BY DIVISION 26 CONTRACTOR UNLESS OTHERWISE NOTED.
5. EXACT SIZES OF BACK BOXES AND FINAL WIRE TYPES AND QUANTITIES TO BE VERIFIED BY LIGHTING CONTRACTOR.
6. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
7. NO COMMON NEUTRALS PERMITTED IN WIRING DEVICES. EACH CIRCUIT MUST HAVE INDIVIDUAL HOT AND NEUTRAL CONDUCTORS WHICH HOMERUN TO THE DIMMER RACK OR CONTROLLED PANELBOARD.
6. ANY PARALLEL CIRCUITS MUST HAVE INDIVIDUAL HOT AND NEUTRAL CONDUCTORS WHICH HOMERUN TO THE DIMMER RACK OR CONTROLLED PANELBOARD.
7. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
8. NO CONDUIT OR CONDUIT SUPPORTS PERMITTED ON LIGHTING PIPES OR LIGHTING POSITIONS.
9. SEE SCHEDULES ON TL600-SERIES SHEETS FOR DEVICE MOUNTING INFORMATION.


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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
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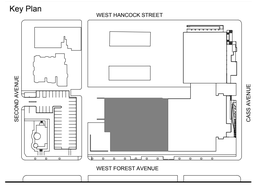
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## THEATRICAL LIGHTING SYSTEM PLAN LEVEL ONE - SECTOR C

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

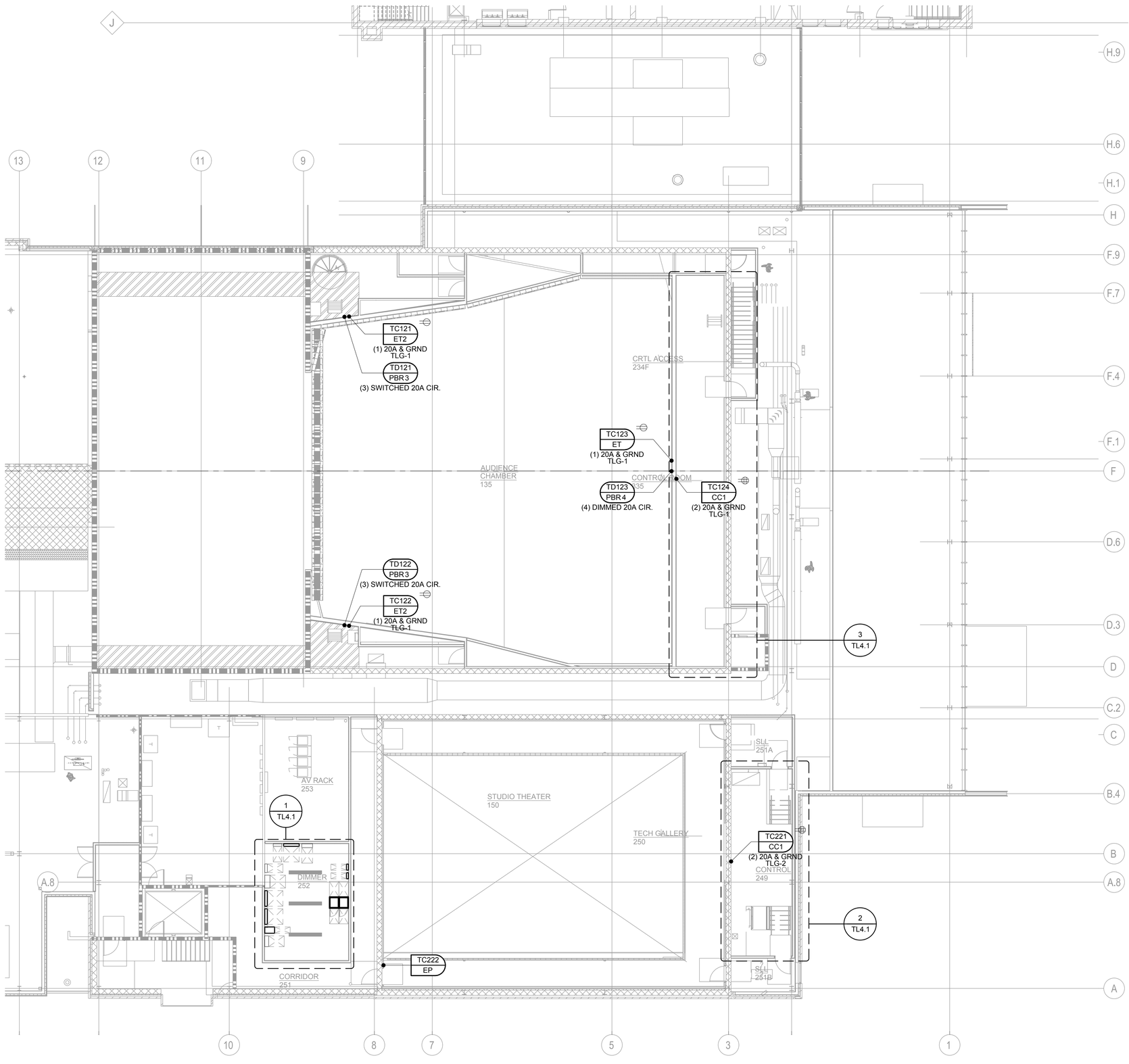
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# TL1.1C

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL LIGHTING SYSTEM PLAN - LEVEL TWO - SECTOR B
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

## LIGHTING SYMBOL KEY

### CONTROL PANELS & RECEPTACLES

- TC□ HL — HOUSE LIGHTING PANEL (TOUCHSCREEN)
- TC□ PP — HOUSE LIGHTING PRESET PANEL
- TC□ EP — HOUSE LIGHTING ENTRY PANEL
- TC□ ET — THEATRE LIGHTING NETWORK ETHERNET TAP
- TC□ EN — THEATRE LIGHTING NETWORK GATEWAY
- TC□ CC — THEATRE LIGHTING NETWORK CONTROL CONSOLE PLUG-IN

### POWER DISTRIBUTION

- TD□ PSP — THEATRE LIGHTING PLUGGING STRIP WITH PIGTAILS
- TD□ PBR — THEATRE LIGHTING PLUGGING BOX WITH RECEPTACLE
- TD□ MBR — THEATRE LIGHTING MULTI BOX WITH RECEPTACLE
- TD□ MBP — THEATRE LIGHTING MULTI BOX WITH PIGTAILS
- 20A 120V DUPLEX LIGHTING SYSTEM RECEPTACLE
- 20A 120V QUAD LIGHTING SYSTEM RECEPTACLE
- 20A 120/208V 3-PHASE RECEPTACLE
- 120/208V 3-PHASE COMPANY SWITCH AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- 60A CO-TL-□ — 120/208V COMPANY SWITCH RECEPTACLE AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- HORIZONTAL CABLE PASS AT 18" AFF (UNDER DIV. 26 & ARCHITECTURAL WORK)
- VERTICAL CABLE PASS IN FLOOR / CEILING (UNDER DIV. 26 & ARCHITECTURAL WORK)

## GENERAL NOTES

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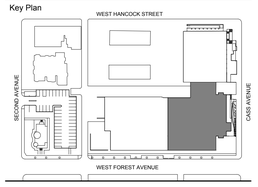
DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL LIGHTING SYSTEM PLAN LEVEL TWO - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

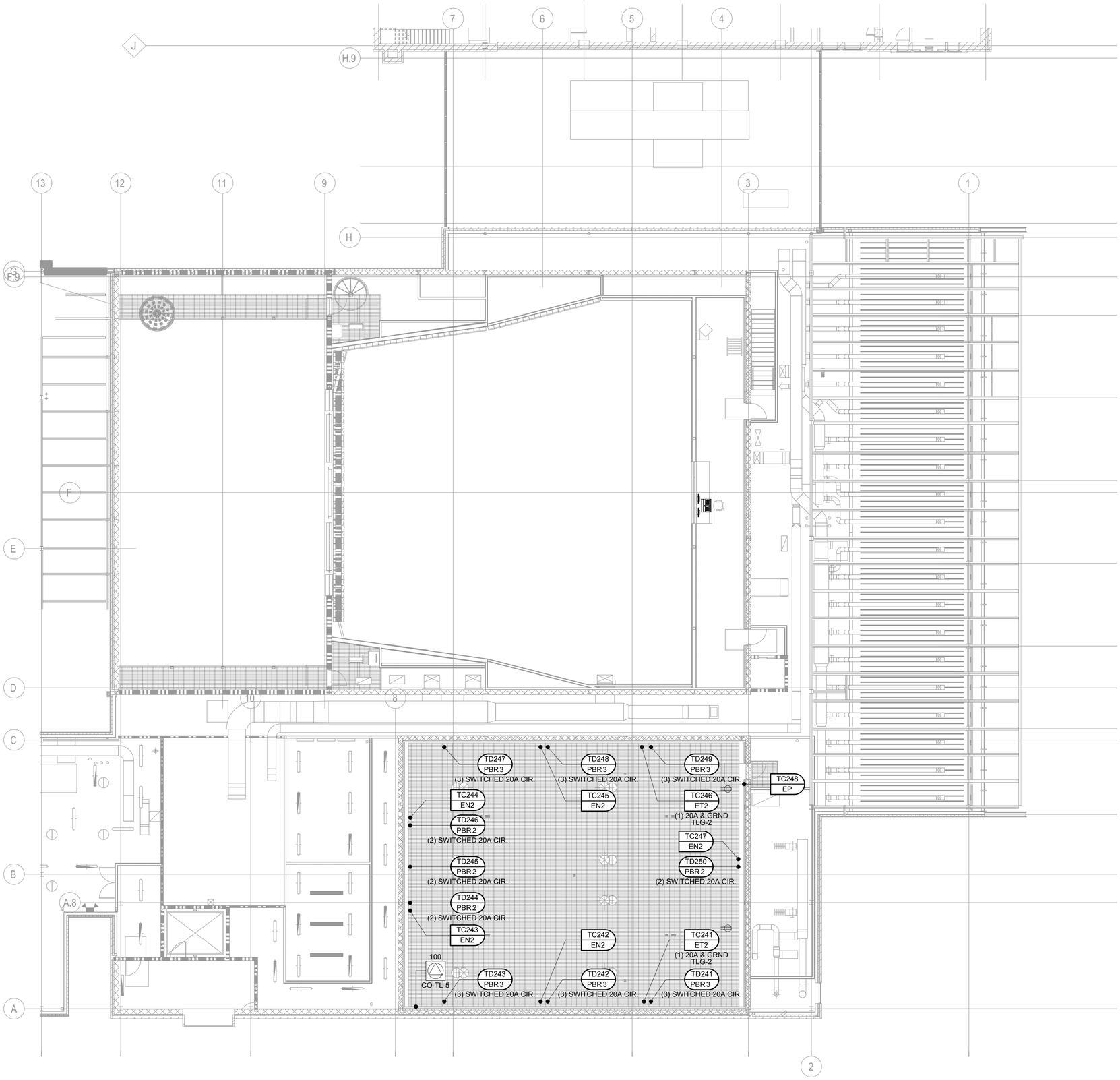
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# TL1.2B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL LIGHTING SYSTEM PLAN - TENSION GRID LEVEL - STUDIO THEATRE - SECTOR B
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

## LIGHTING SYMBOL KEY

### CONTROL PANELS & RECEPTACLES

- TC□ HL — HOUSE LIGHTING PANEL (TOUCHSCREEN)
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- TC□ EP — HOUSE LIGHTING ENTRY PANEL
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- TC□ EN — THEATRE LIGHTING NETWORK GATEWAY
- TC□ CC — THEATRE LIGHTING NETWORK CONTROL CONSOLE PLUG-IN

### POWER DISTRIBUTION

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- TD□ PBR — THEATRE LIGHTING PLUGGING BOX WITH RECEPTACLE
- TD□ MBR — THEATRE LIGHTING MULTI BOX WITH RECEPTACLE
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- 20A 120V DUPLEX LIGHTING SYSTEM RECEPTACLE
- 20A 120V QUAD LIGHTING SYSTEM RECEPTACLE
- 20A 120/208V 3-PHASE RECEPTACLE
- 120/208V 3-PHASE COMPANY SWITCH AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- 60A CO-TL-□ — 120/208V COMPANY SWITCH RECEPTACLE AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
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## GENERAL NOTES

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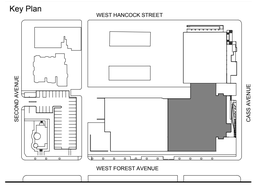
DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL LIGHTING SYSTEM PLAN TENSION GRID LEVEL - SECTOR B

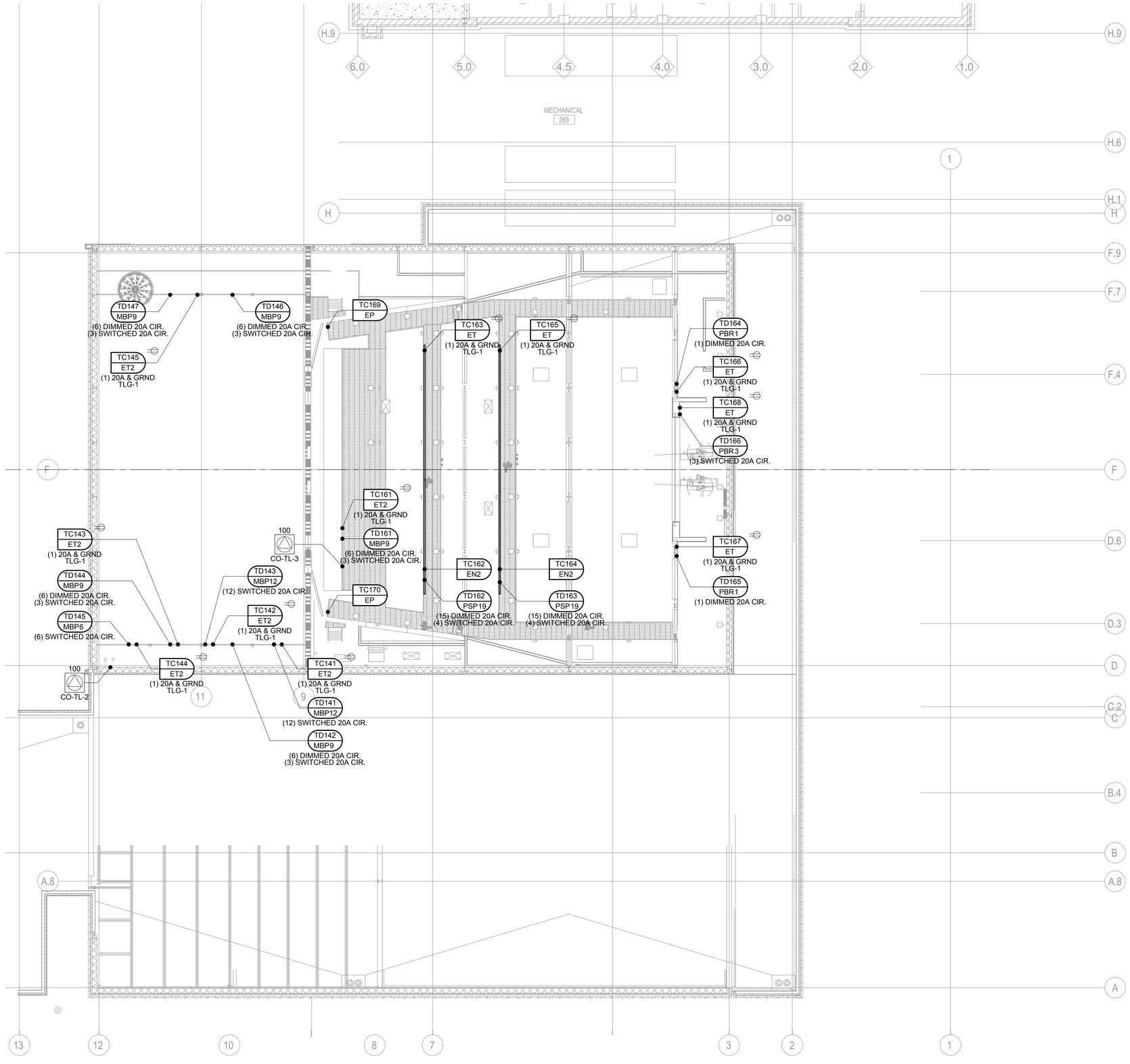
Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
# TL1.2.1B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL LIGHTING SYSTEM PLAN - TECH LEVEL - SECTOR B
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

## LIGHTING SYMBOL KEY

### CONTROL PANELS & RECEPTACLES

- TC□ HL — HOUSE LIGHTING PANEL (TOUCHSCREEN)
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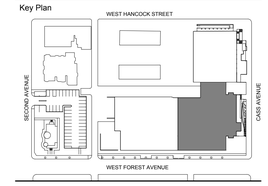
DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL LIGHTING SYSTEM PLAN TECH LEVEL - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TL1.3B

Sheet Size: 30" x 42"
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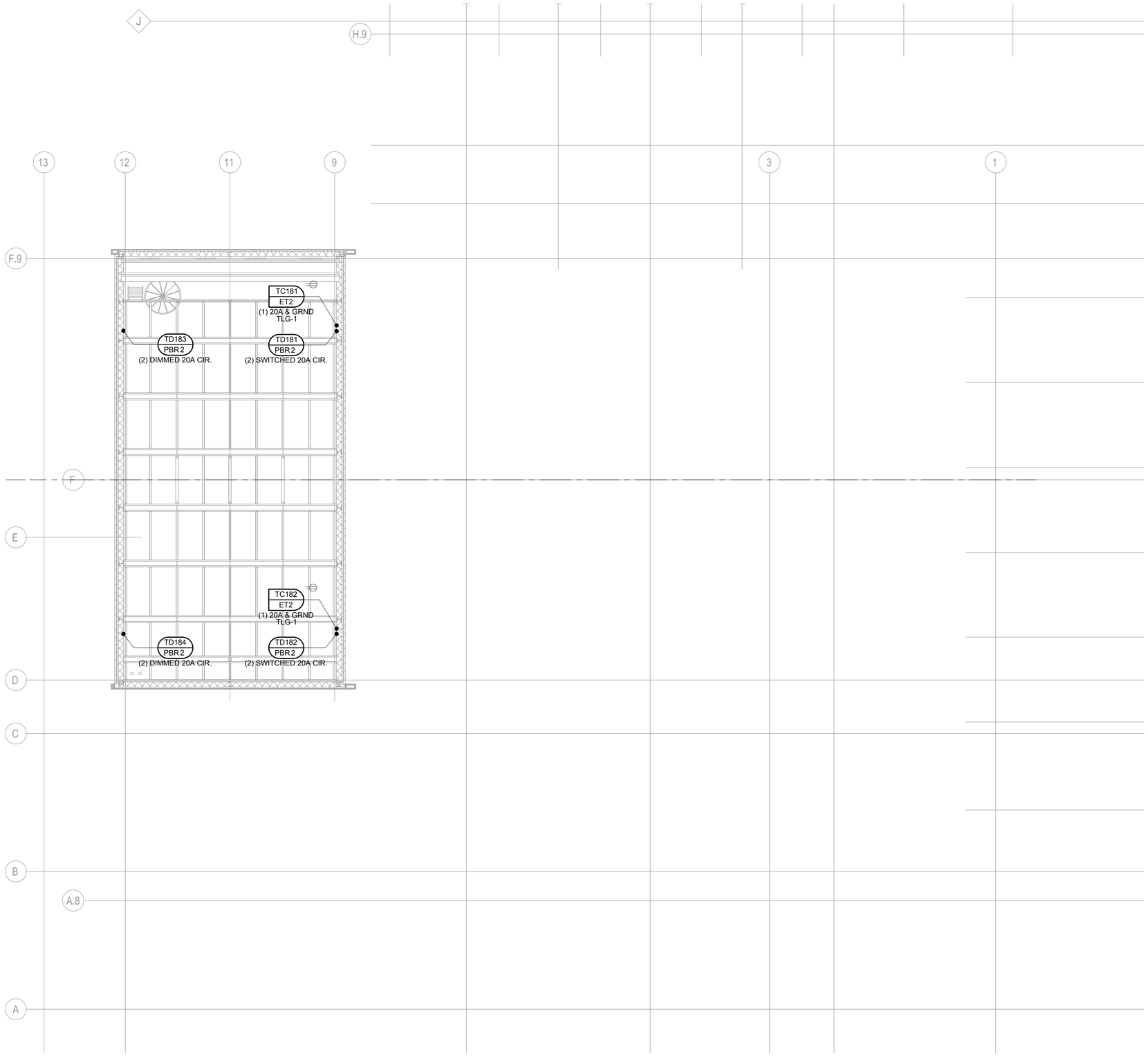


1 THEATRICAL LIGHTING SYSTEM PLAN - GRID LEVEL - SECTOR B
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

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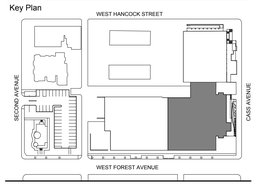
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL LIGHTING SYSTEM PLAN GRID LEVEL - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

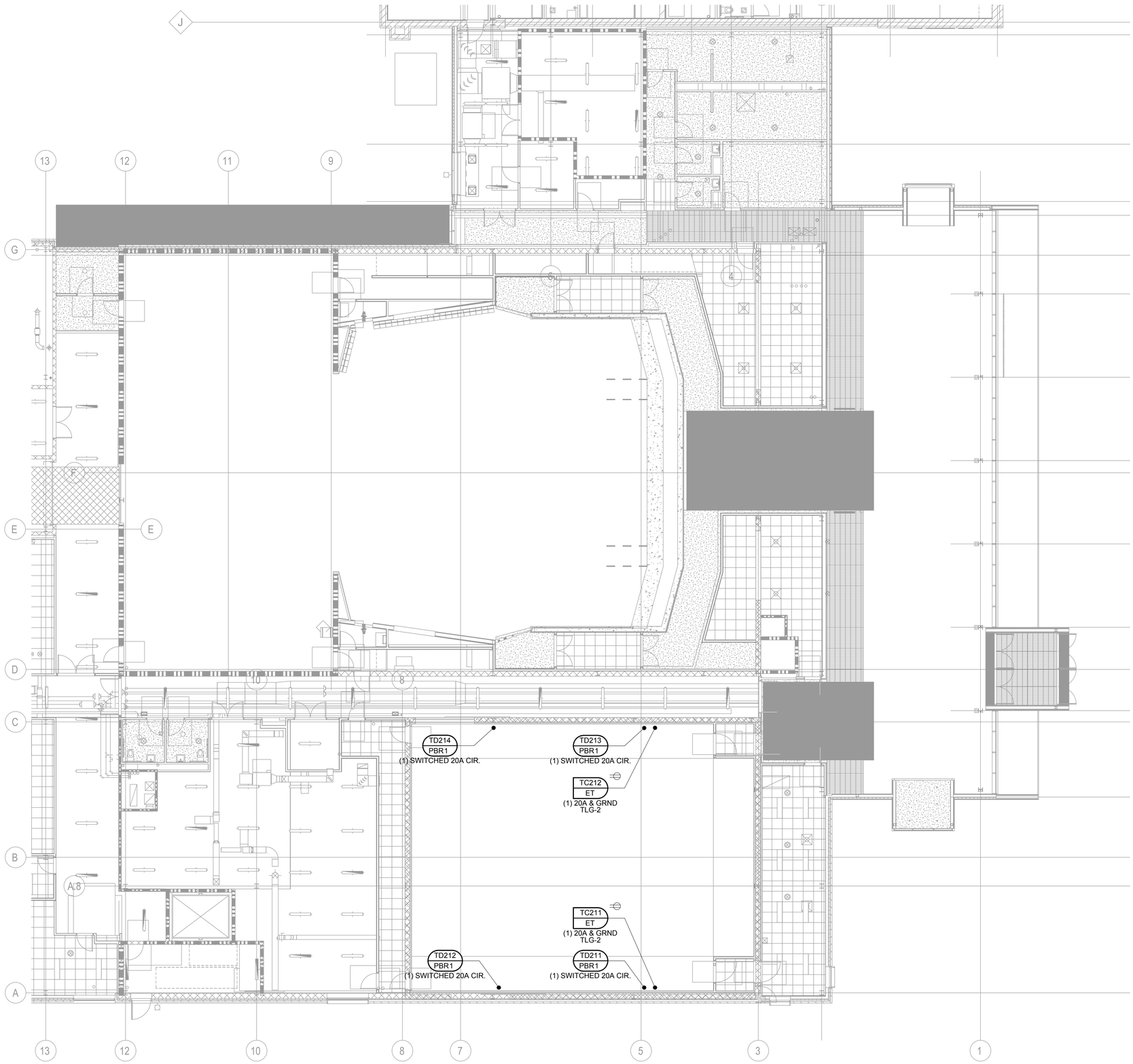
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# TL1.4B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL LIGHTING SYSTEM RCP - LEVEL ONE - SECTOR B
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

## LIGHTING SYMBOL KEY

### CONTROL PANELS & RECEPTACLES

- TC□ / HL — HOUSE LIGHTING PANEL (TOUCHSCREEN)
- TC□ / PP — HOUSE LIGHTING PRESET PANEL
- TC□ / EP — HOUSE LIGHTING ENTRY PANEL
- TC□ / ET — THEATRE LIGHTING NETWORK ETHERNET TAP
- TC□ / EN — THEATRE LIGHTING NETWORK GATEWAY
- TC□ / CC — THEATRE LIGHTING NETWORK CONTROL CONSOLE PLUG-IN

### POWER DISTRIBUTION

- TD□ / PSP — THEATRE LIGHTING PLUGGING STRIP WITH PIGTAILS
- TD□ / PBR — THEATRE LIGHTING PLUGGING BOX WITH RECEPTACLE
- TD□ / MBR — THEATRE LIGHTING MULTI BOX WITH RECEPTACLE
- TD□ / MBP — THEATRE LIGHTING MULTI BOX WITH PIGTAILS
- 20A 120V DUPLEX LIGHTING SYSTEM RECEPTACLE
- 20A 120V QUAD LIGHTING SYSTEM RECEPTACLE
- 20A 120/208V 3-PHASE RECEPTACLE
- 120/208V 3-PHASE COMPANY SWITCH AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- 60A / CO-TL-□ — 120/208V COMPANY SWITCH RECEPTACLE AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
- HORIZONTAL CABLE PASS AT 18" AFF (UNDER DIV. 26 & ARCHITECTURAL WORK)
- VERTICAL CABLE PASS IN FLOOR / CEILING (UNDER DIV. 26 & ARCHITECTURAL WORK)

## GENERAL NOTES

1. THE LIGHTING SYSTEM SHOWN ON THESE SHEETS IS BASED ON A "20A POWER RECEPTACLE PER CIRCUIT" CONCEPT. EACH RECEPTACLE IS WIRED TO THE DIMMER RACK SLOT OR CONTROLLED BREAKER WITH THE SAME NUMBER DESIGNATION.
2. ALL CONDUIT, WIRE, MOUNTING, POWER FEEDS AND POWER TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
3. REFER TO DIVISION 26 SPECIFICATIONS AND DRAWINGS FOR ALL PANELBOARD DESIGNATIONS.
4. ALL DEVICES & CONTROL WIRE TERMINATIONS BY DIVISION 26 CONTRACTOR UNLESS OTHERWISE NOTED.
5. EXACT SIZES OF BACK BOXES AND FINAL WIRE TYPES AND QUANTITIES TO BE VERIFIED BY LIGHTING CONTRACTOR.
6. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
7. NO COMMON NEUTRALS PERMITTED IN WIRING DEVICES. EACH CIRCUIT MUST HAVE INDIVIDUAL HOT AND NEUTRAL CONDUCTORS WHICH HOMERUN TO THE DIMMER RACK OR CONTROLLED PANELBOARD.
6. ANY PARALLEL CIRCUITS MUST HAVE INDIVIDUAL HOT AND NEUTRAL CONDUCTORS WHICH HOMERUN TO THE DIMMER RACK OR CONTROLLED PANELBOARD.
7. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
8. NO CONDUIT OR CONDUIT SUPPORTS PERMITTED ON LIGHTING PIPES OR LIGHTING POSITIONS.
9. SEE SCHEDULES ON TL600-SERIES SHEETS FOR DEVICE MOUNTING INFORMATION.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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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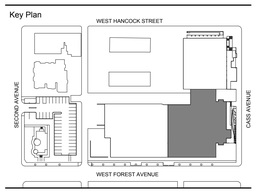
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL LIGHTING SYSTEM RCP LEVEL ONE - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

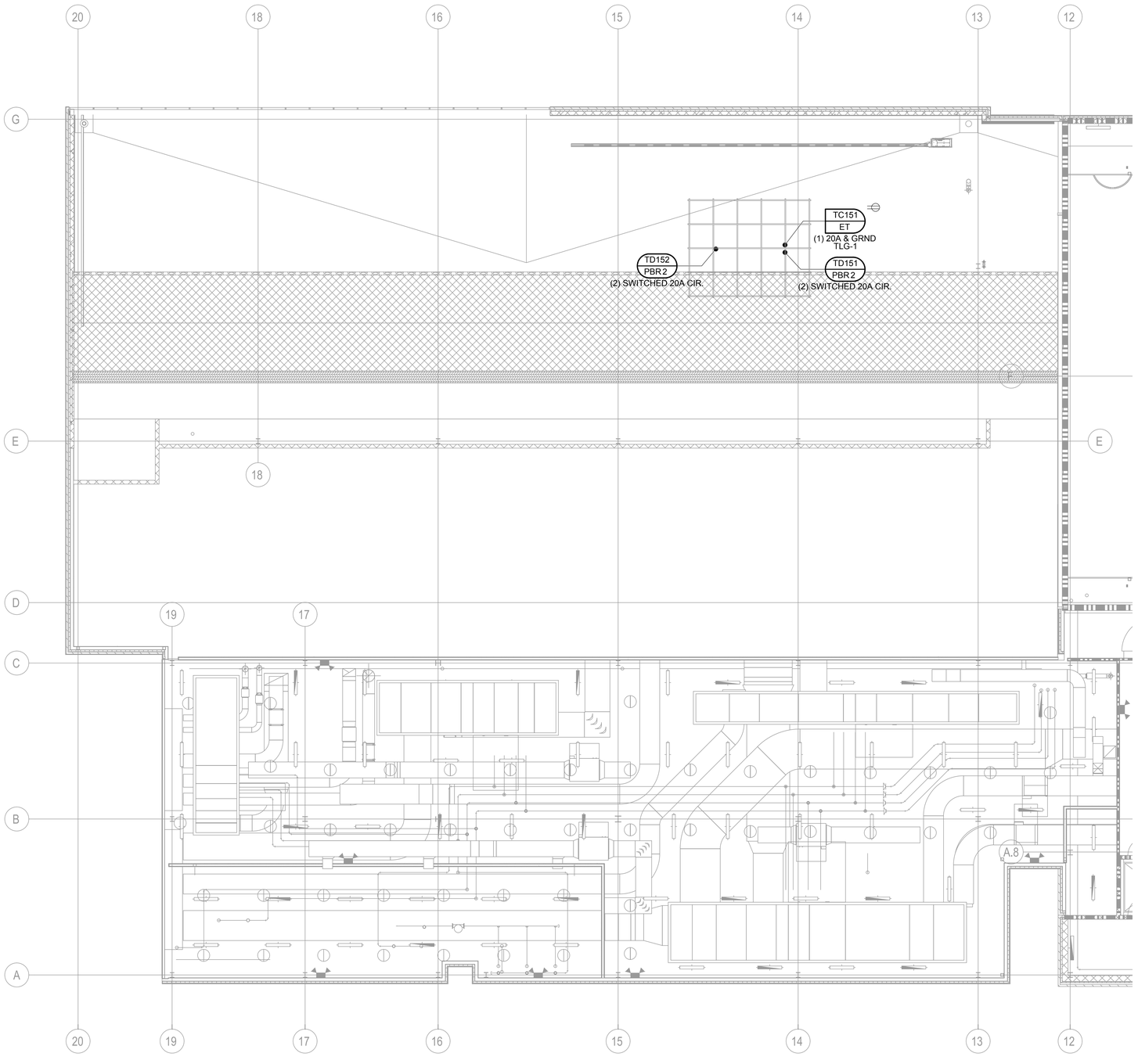
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# TL2.1B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL LIGHTING SYSTEM RCP - LEVEL TWO - SECTOR C
1/8"=1'-0"

## LIGHTING LEGEND

DEVICE LOCATION
DEVICE NUMBER
DEVICE TYPE
CIRCUIT TYPE & QTY
PANEL ID / BREAKER

## LIGHTING SYMBOL KEY

### CONTROL PANELS & RECEPTACLES

- TC□ HL — HOUSE LIGHTING PANEL (TOUCHSCREEN)
- TC□ PP — HOUSE LIGHTING PRESET PANEL
- TC□ EP — HOUSE LIGHTING ENTRY PANEL
- TC□ ET — THEATRE LIGHTING NETWORK ETHERNET TAP
- TC□ EN — THEATRE LIGHTING NETWORK GATEWAY
- TC□ CC — THEATRE LIGHTING NETWORK CONTROL CONSOLE PLUG-IN

### POWER DISTRIBUTION

- TD□ PSP — THEATRE LIGHTING PLUGGING STRIP WITH PIGTAILS
- TD□ PBR — THEATRE LIGHTING PLUGGING BOX WITH RECEPTACLE
- TD□ MBR — THEATRE LIGHTING MULTI BOX WITH RECEPTACLE
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- 20A 120V DUPLEX LIGHTING SYSTEM RECEPTACLE
- 20A 120V QUAD LIGHTING SYSTEM RECEPTACLE
- 20A 120/208V 3-PHASE RECEPTACLE
- 120/208V 3-PHASE COMPANY SWITCH AMPERAGE AS INDICATED ON PLANS (UNDER DIVISION 26 WORK)
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- HORIZONTAL CABLE PASS AT 18" AFF (UNDER DIV. 26 & ARCHITECTURAL WORK)
- VERTICAL CABLE PASS IN FLOOR / CEILING (UNDER DIV. 26 & ARCHITECTURAL WORK)

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9. SEE SCHEDULES ON TL600-SERIES SHEETS FOR DEVICE MOUNTING INFORMATION.


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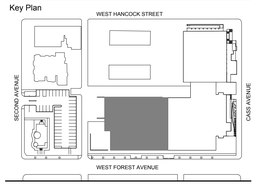
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## THEATRICAL LIGHTING SYSTEM RCP LEVEL TWO - SECTOR C

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

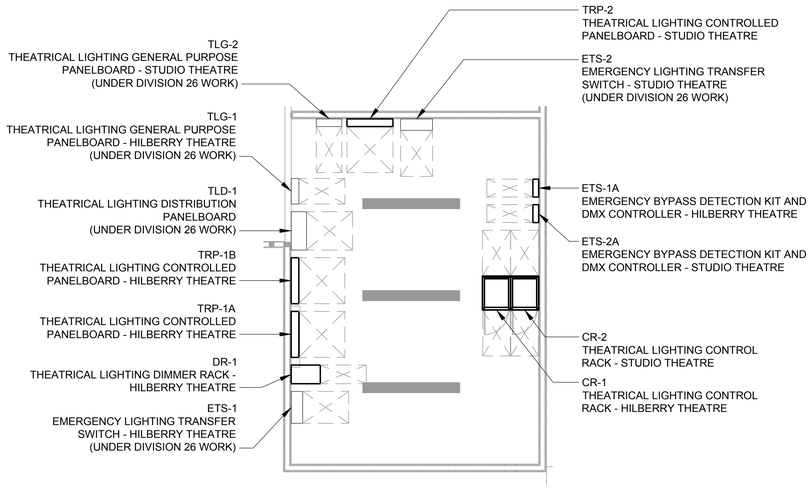
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

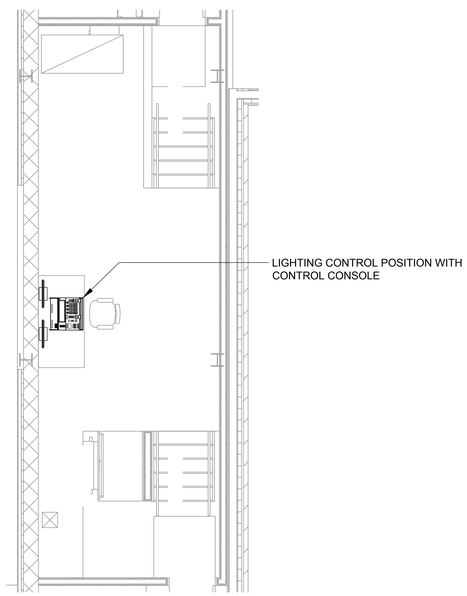
Drawing No:

# TL2.2C

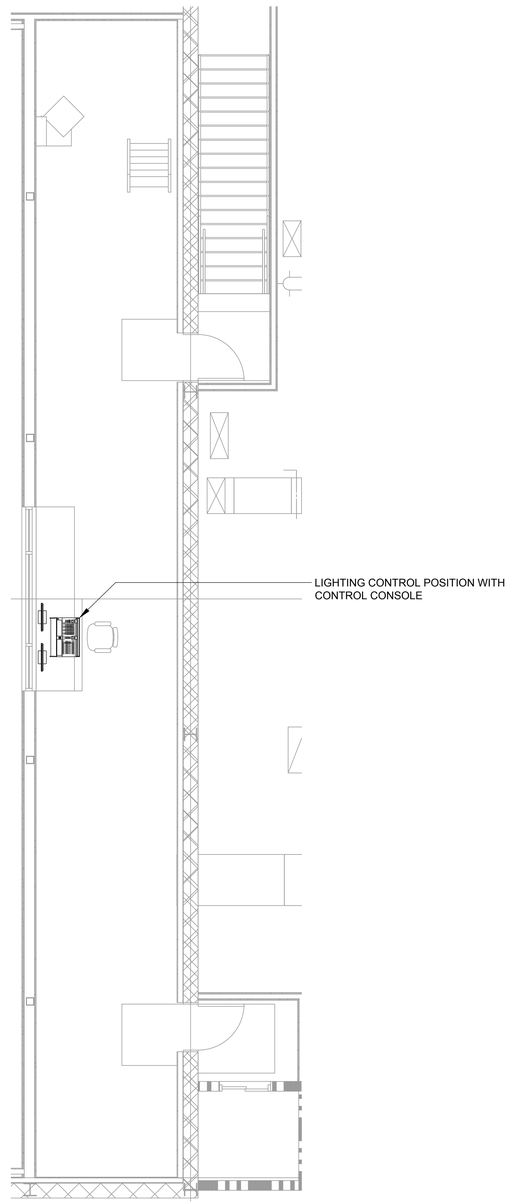
Sheet Size: 30" x 42"
: Template Version




1 DIMMER ROOM DETAIL PLAN (RM. 252)
1/4"=1'-0"




2 CONTROL ROOM DETAIL PLAN - STUDIO THEATRE (RM. 249)
1/4"=1'-0"




3 CONTROL ROOM DETAIL PLAN - PROSCENIUM THEATRE (RM. 335)
1/4"=1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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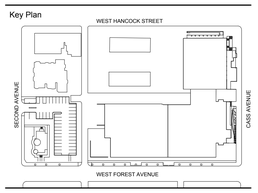
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL LIGHTING SYSTEM DETAIL PLANS

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

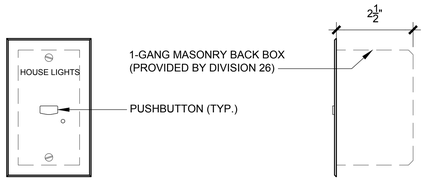
Seal:

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

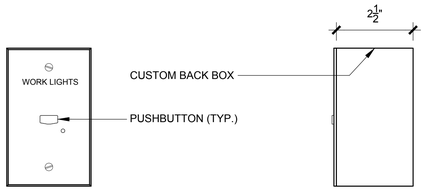
Signature:

Drawing No:
TL4.1

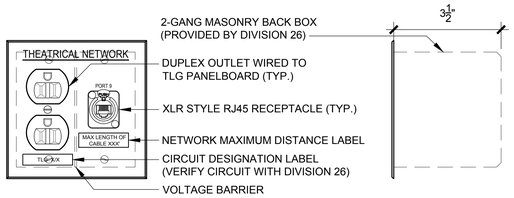
Sheet Size: 30" x 42"
: Template Version



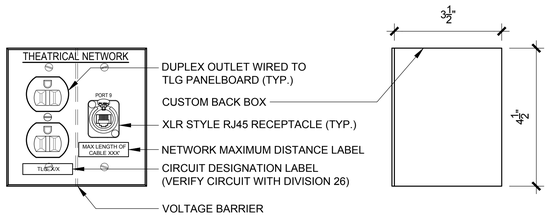

## 1 FLUSH MOUNTED ENTRY STATION - 'EP'
6"=1'-0"



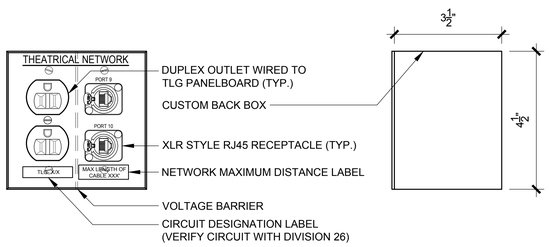

## 2 SURFACE MOUNTED ENTRY STATION - 'EP'
6"=1'-0"



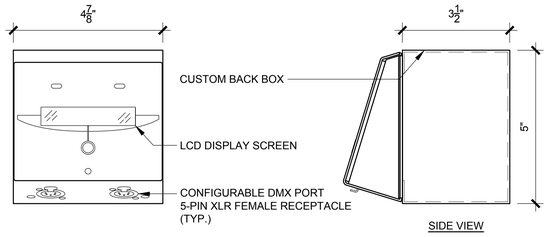

## 3 FLUSH MOUNTED NETWORK TAP - 'ET'
6"=1'-0"



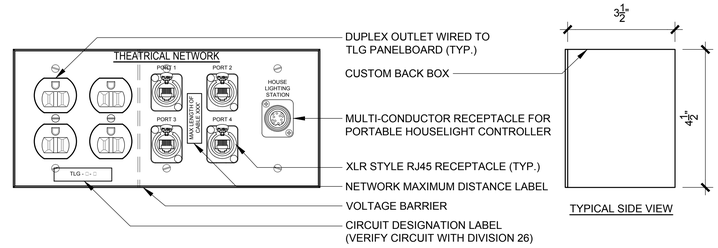

## 4 SURFACE MOUNTED NETWORK TAP - 'ET'
6"=1'-0"



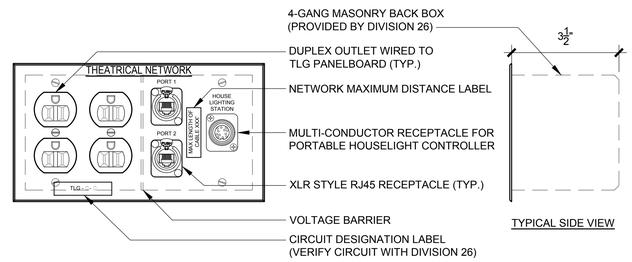

## 5 SURFACE MOUNTED NETWORK TAP - 'ET2'
6"=1'-0"



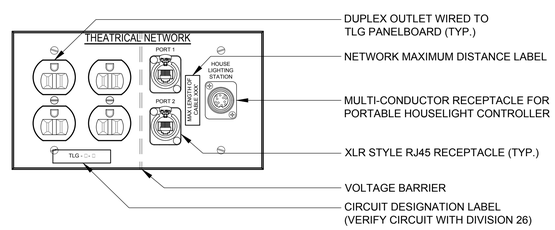

## 6 SURFACE MOUNTED NETWORK GATEWAY - 'EN2'
6"=1'-0"




## 7 SURFACE MOUNTED CONSOLE CONNECTION PANEL - 'CC1'
6"=1'-0"




## 8 FLUSH MOUNTED CONSOLE CONNECTION PANEL - 'CC2'
6"=1'-0"




## 9 SURFACE MOUNTED CONSOLE CONNECTION PANEL - 'CC2'
6"=1'-0"

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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL LIGHTING CONTROL DEVICE DETAILS

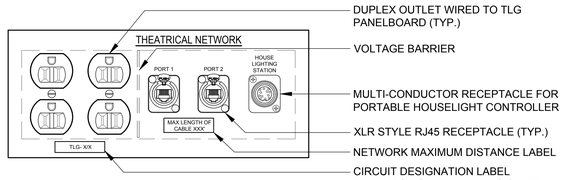
Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

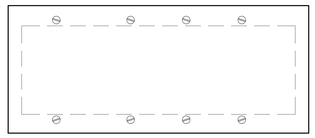
Signature:

Drawing No:
TL5.1

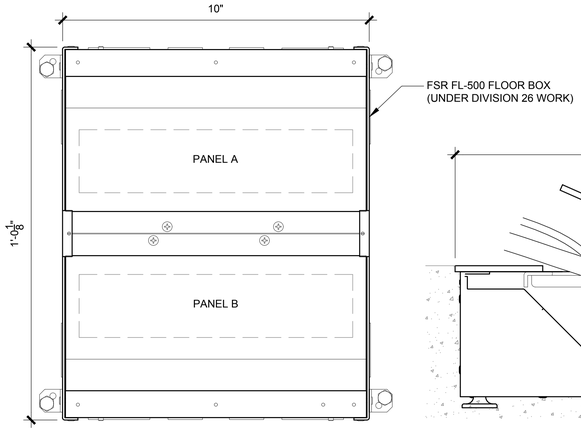
Sheet Size: 30" x 42"
- Template Version



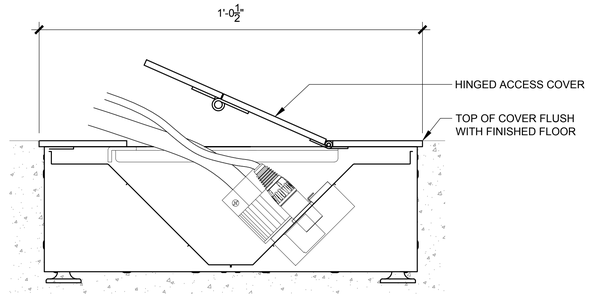

PANEL A: CONSOLE CONNECTION PANEL 'CC2'



PANEL B: NOT USED



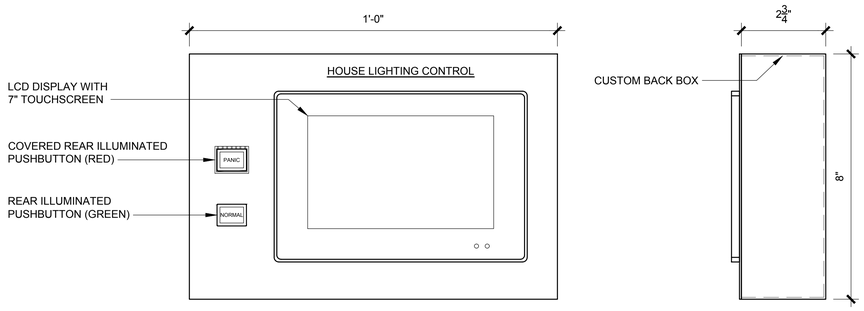

PLAN VIEW (COVER REMOVED FOR CLARITY)




SECTION VIEW

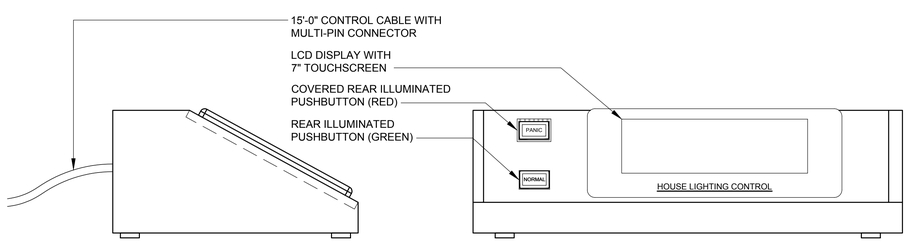
## 1 FLOOR MOUNTED CONSOLE CONNECTION PANEL - 'CC2'

6"=1'-0"




## 2 SURFACE MOUNTED HOUSE LIGHTING MASTER STATION - 'HL'

6"=1'-0"




SIDE VIEW

FRONT VIEW

## 3 PORTABLE HOUSE LIGHTING MASTER STATION - 'HLP'

6"=1'-0"

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

THEATRICAL LIGHTING CONTROL DEVICE DETAILS

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

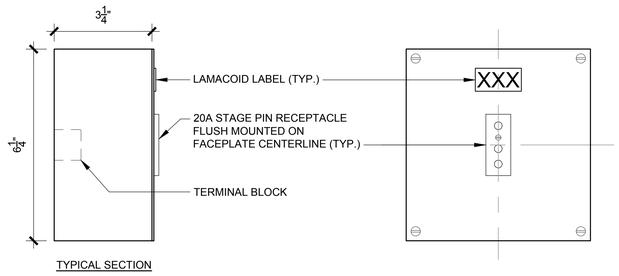
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

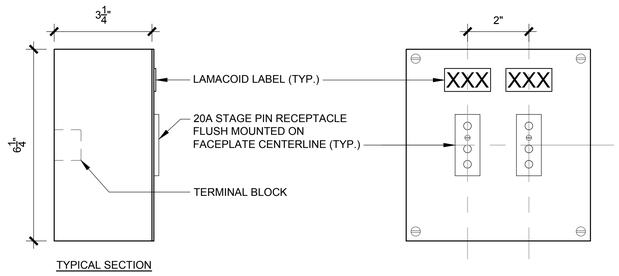
Drawing No:

TL5.2

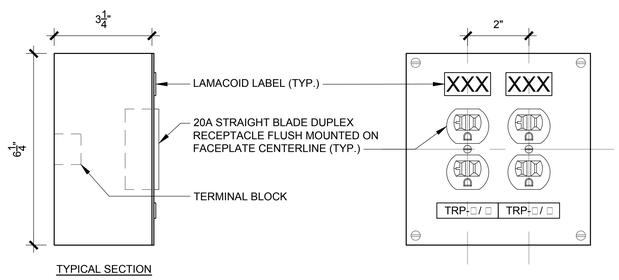
Sheet Size: 30" x 42"
: Template Version



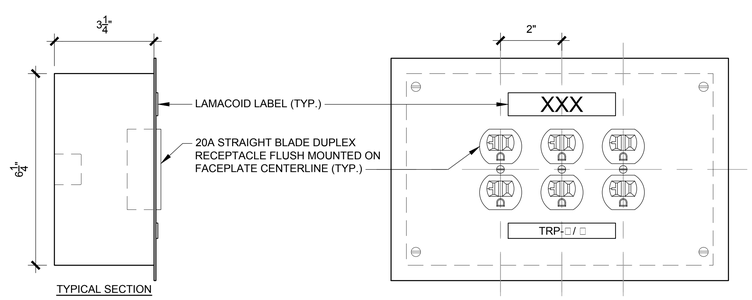

1 SURFACE MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 1 - 1/0/0
6"=1'-0"



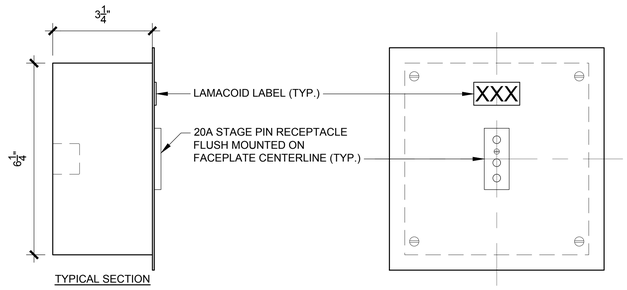

2 SURFACE MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 2 - 2/0/0
6"=1'-0"



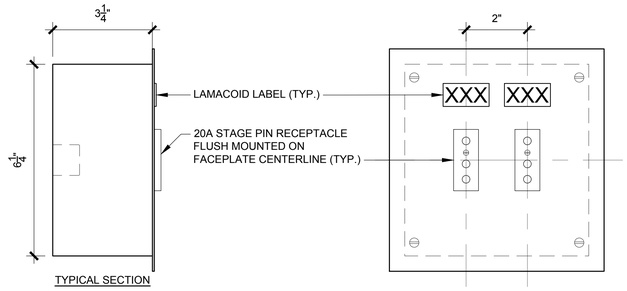

3 SURFACE MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 2 - 0/2/0
6"=1'-0"



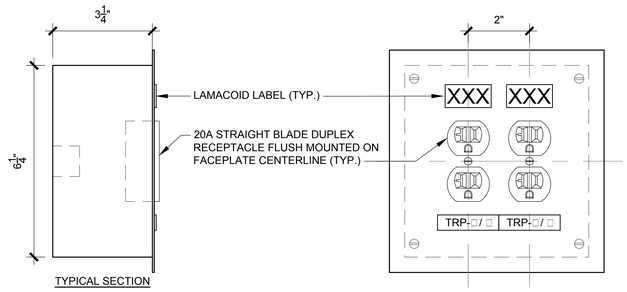

4 FLUSH MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 1 - 0/1/0
HALF FULL SCALE



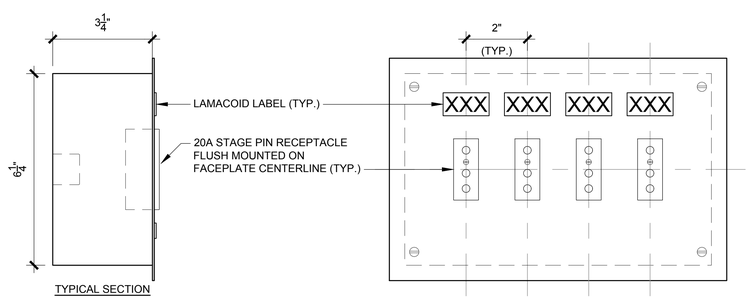

5 FLUSH MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 1 - 1/0/0
HALF FULL SCALE




6 FLUSH MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 2 - 2/0/0
HALF FULL SCALE




7 FLUSH MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 2 - 0/2/0
HALF FULL SCALE




8 FLUSH MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 4 - 4/0/0
HALF FULL SCALE

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DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL LIGHTING DISTRIBUTION DEVICE DETAILS

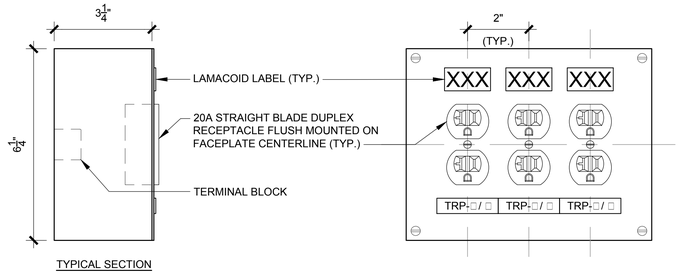
Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

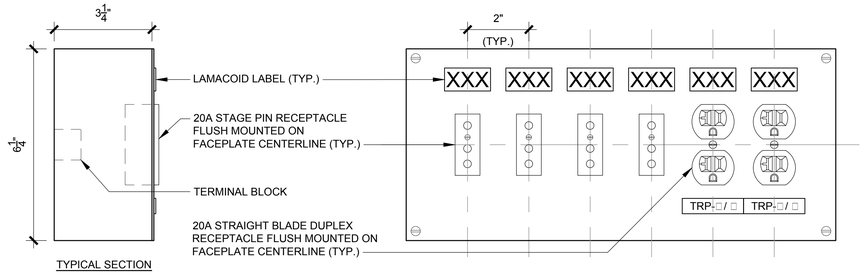
Drawing No:
TL5.3

Sheet Size: 30" x 42"
: Template Version



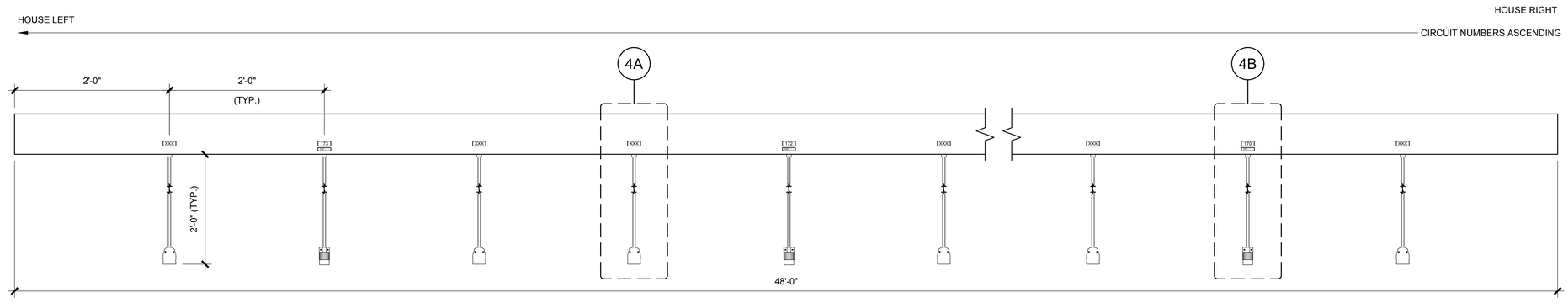

## 1 SURFACE MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 3 - 0/3/0

6"=1'-0"



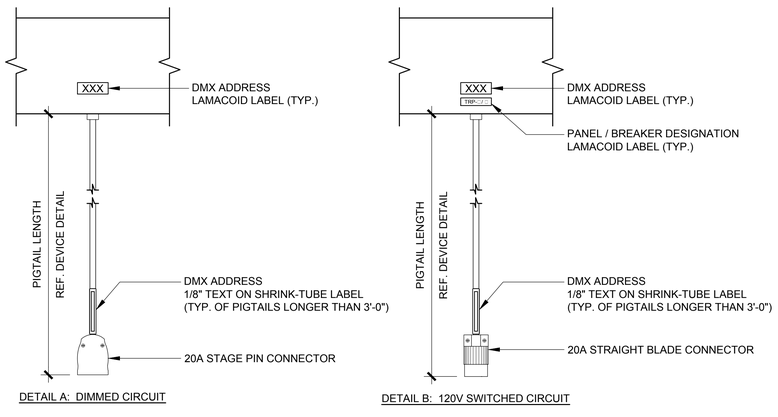

## 2 SURFACE MOUNT PLUGGING BOX WITH RECEPTACLES - PBR 6 - 4/2/0

6"=1'-0"




## 3 PROSCENIUM THEATRE CATWALK PLUGGING STRIP WITH PIGTAILS - PSP 19 - 15/4/0

1-1/2"=1'-0"




## 4 PLUGGING STRIP PIGTAIL DETAILS

3"=1'-0"

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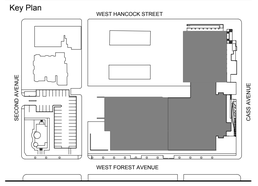
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

THEATRICAL LIGHTING DISTRIBUTION DEVICE DETAILS

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

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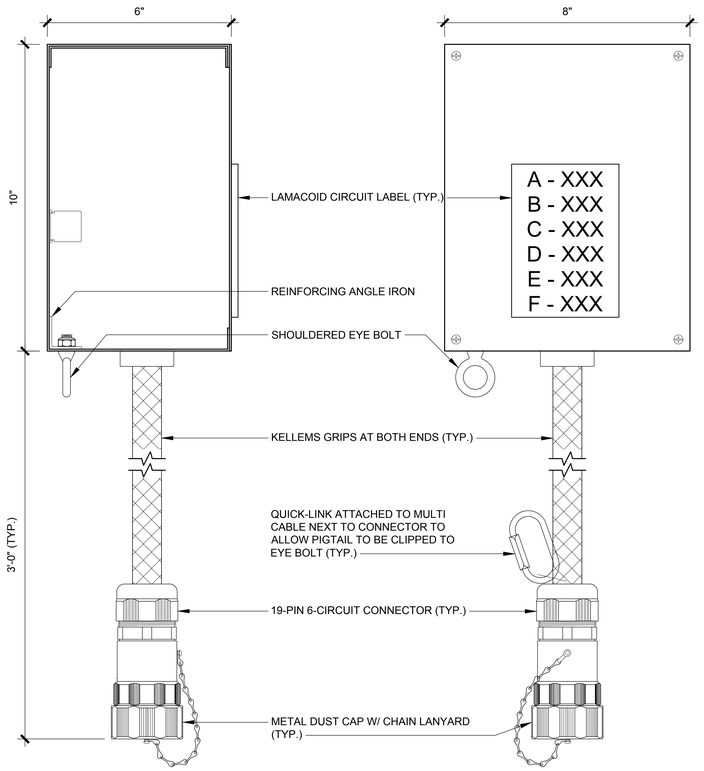
Signature:

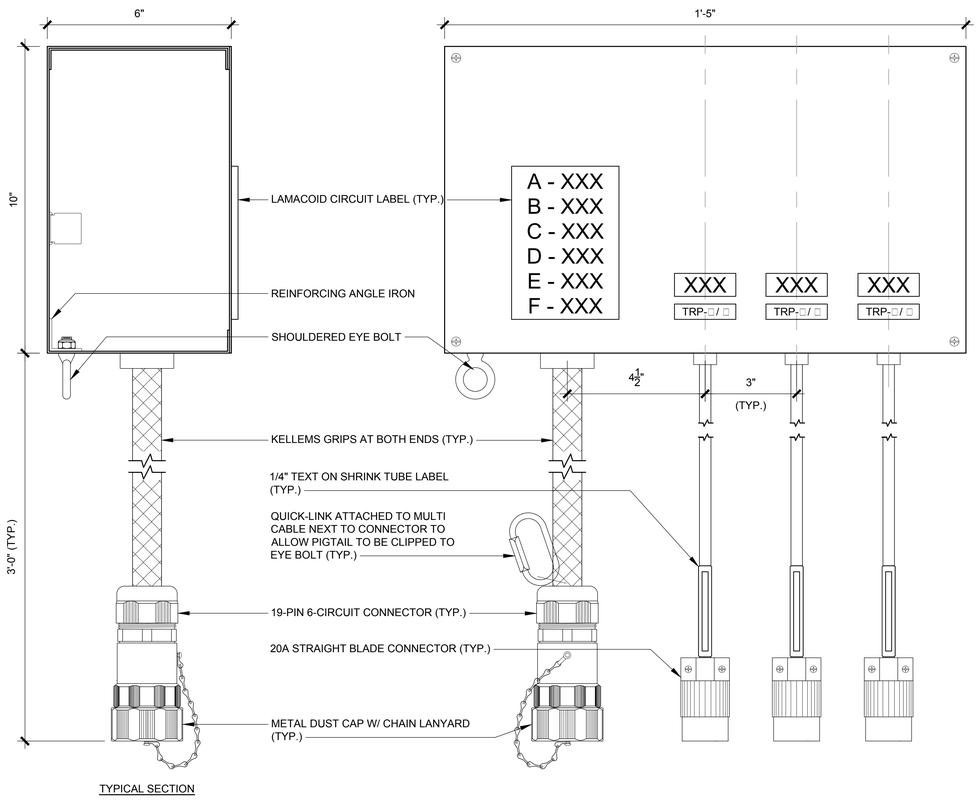
Drawing No:

TL5.4

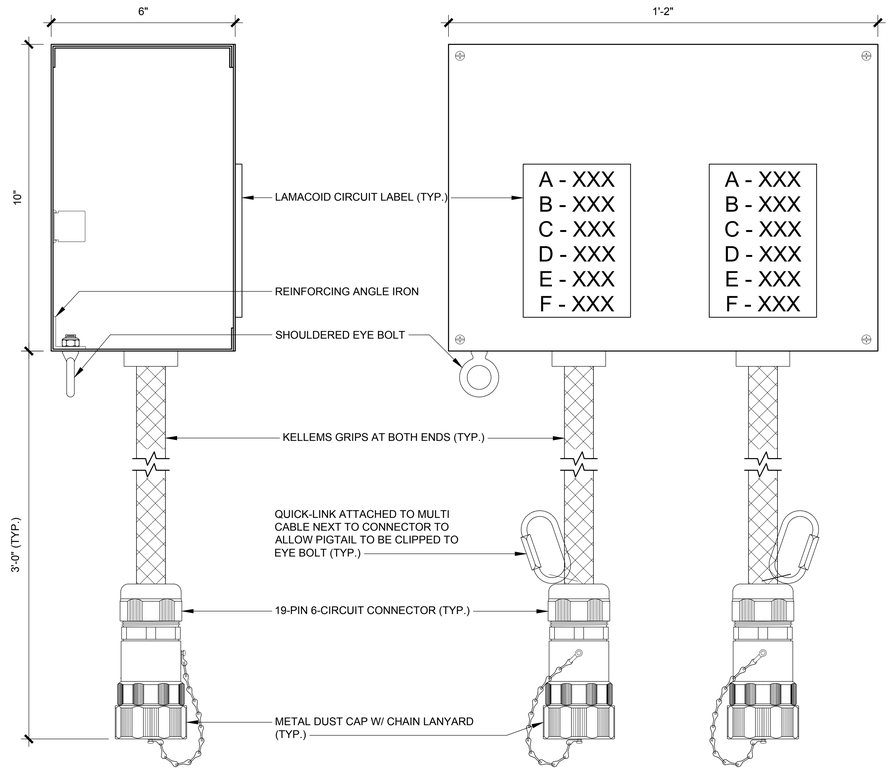
Sheet Size: 30" x 42"
: Template Version



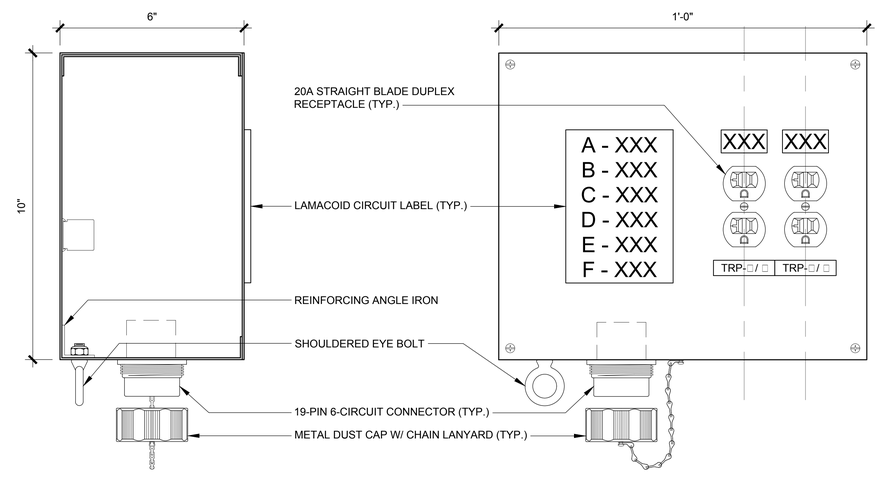

1 SURFACE MOUNT MULTI BOX WITH PIGTAILS - MBP 6 - 0/6/0
HALF FULL SCALE




2 SURFACE MOUNT MULTI BOX WITH PIGTAILS - MBP 9 - 6/3/0
HALF FULL SCALE




3 SURFACE MOUNT MULTI BOX WITH PIGTAILS - MBP 12 - 0/12/0
HALF FULL SCALE




4 SURFACE MOUNT MULTI BOX WITH RECEPTACLES - MBR 8 - 6/2/0
6"=1'-0"

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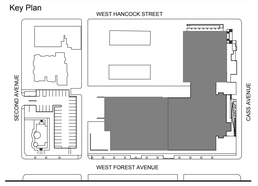
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL LIGHTING DISTRIBUTION DEVICE DETAILS

Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

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Signature:

Drawing No:
TL5.5

Sheet Size: 30" x 42"
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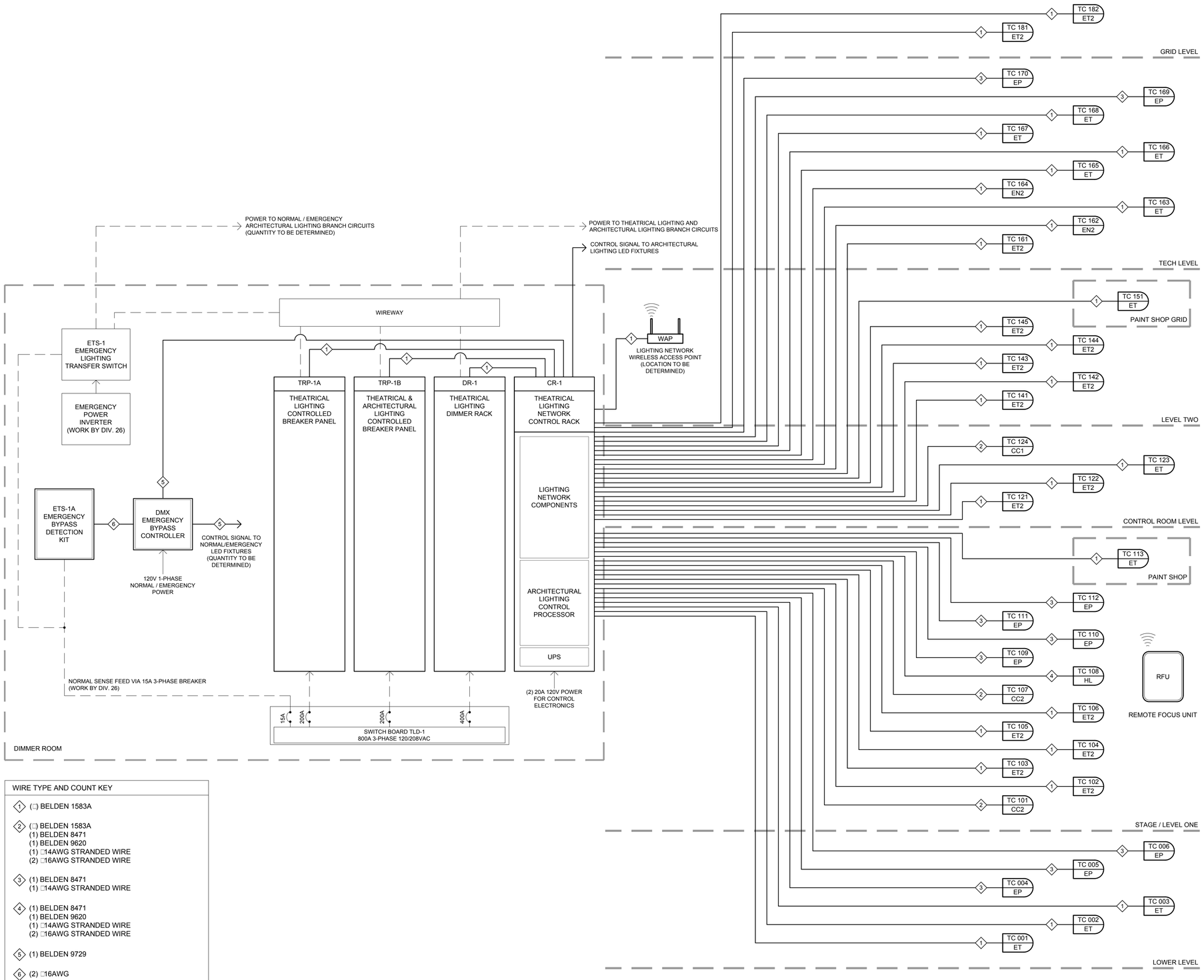


| WIRE TYPE AND COUNT KEY |
|---|
| 1 (□) BELDEN 1583A |
| 2 (□) BELDEN 1583A<br>(1) BELDEN 8471<br>(1) BELDEN 9620<br>(1) □14AWG STRANDED WIRE<br>(2) □16AWG STRANDED WIRE |
| 3 (1) BELDEN 8471<br>(1) □14AWG STRANDED WIRE |
| 4 (1) BELDEN 8471<br>(1) BELDEN 9620<br>(1) □14AWG STRANDED WIRE<br>(2) □16AWG STRANDED WIRE |
| 5 (1) BELDEN 9729 |
| 6 (2) □16AWG |
| 7 (1) BELDEN 9620 |
| (□) QUANTITY AS NEEDED - SEE DEVICE DETAILS |
| NOTES:<br>CONTRACTOR TO VERIFY THAT ETHERNET CABLE RUNS DO NOT EXCEED 300'. |

1 THEATRICAL LIGHTING CONTROL SYSTEM RISER - PROSCENIUM THEATRE
NOT TO SCALE

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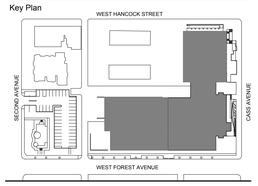
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL LIGHTING CONTROL SYSTEM RISER - PROSENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

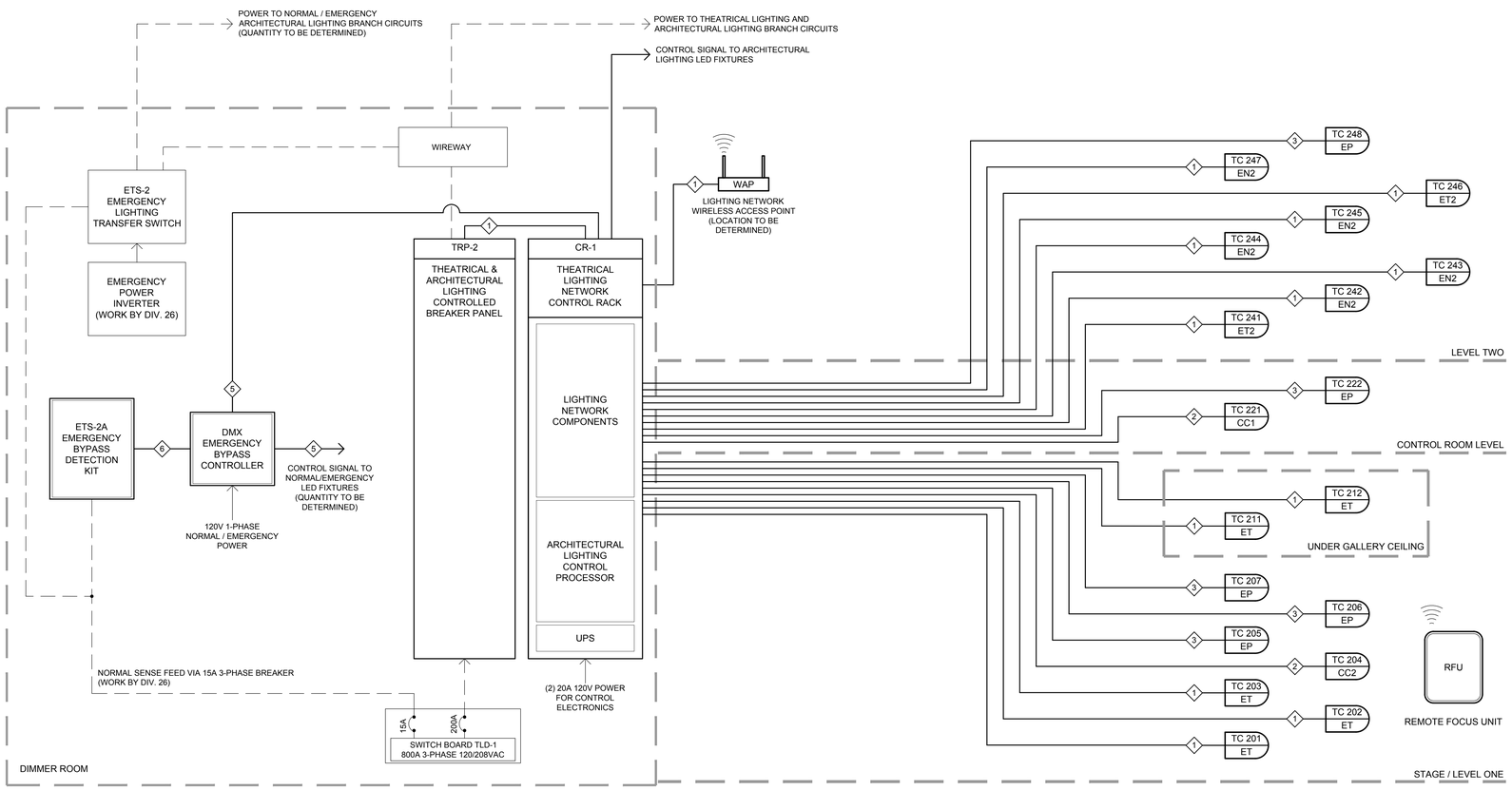
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TL6.1

Sheet Size: 30" x 42"
: Template Version




| WIRE TYPE AND COUNT KEY |
|---|
| 1 (□) BELDEN 1583A |
| 2 (□) BELDEN 1583A<br>(1) BELDEN 8471<br>(1) BELDEN 9620<br>(1) □14AWG STRANDED WIRE<br>(2) □16AWG STRANDED WIRE |
| 3 (1) BELDEN 8471<br>(1) □14AWG STRANDED WIRE |
| 4 (1) BELDEN 8471<br>(1) BELDEN 9620<br>(1) □14AWG STRANDED WIRE<br>(2) □16AWG STRANDED WIRE |
| 5 (1) BELDEN 9729 |
| 6 (2) □16AWG |
| 7 (1) BELDEN 9620 |
| (□) QUANTITY AS NEEDED - SEE DEVICE DETAILS |
| NOTES:<br>CONTRACTOR TO VERIFY THAT ETHERNET CABLE RUNS DO NOT EXCEED 300'. |

1 THEATRICAL LIGHTING CONTROL SYSTEM RISER - STUDIO THEATRE
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architecture landscape architecture urban design

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL LIGHTING CONTROL SYSTEM RISER - STUDIO THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

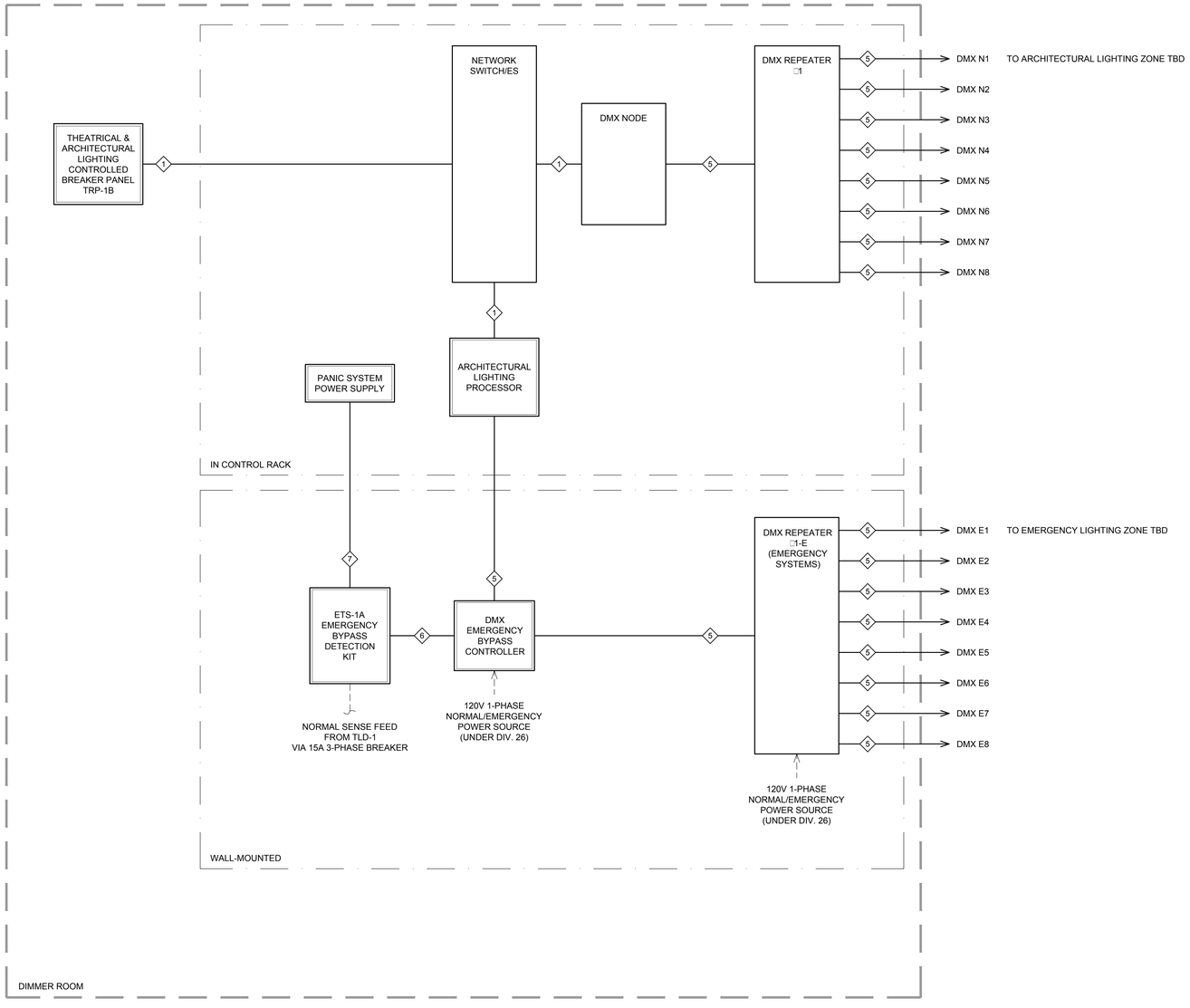
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TL6.2

Sheet Size: 30" x 42"
: Template Version




1 ARCHITECTURAL LIGHTING CONTROL / EMERGENCY SYSTEM BLOCK DIAGRAM - PROSCENIUM THEATRE
NOT TO SCALE

NOTES:

1. RISER IS BASED ON A ONE-TO-ONE ASSIGNMENT OF ARCHITECTURAL LIGHTING CONTROL ZONES TO CONTROL OUTPUTS. ACTUAL NUMBER OF OUTPUTS REQUIRED TO BE COORDINATED WITH ELECTRICAL ENGINEER.
2. EMERGENCY LIGHTING ZONES TO BE COORDINATED WITH ELECTRICAL ENGINEER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL LIGHTING FIXTURES LAYOUT.

WIRE TYPE AND COUNT KEY

1 (□) BELDEN 1583A

2 (□) BELDEN 1583A
(1) BELDEN 8471
(1) BELDEN 9620
(1) □14AWG STRANDED WIRE
(2) □16AWG STRANDED WIRE

3 (1) BELDEN 8471
(1) □14AWG STRANDED WIRE

4 (1) BELDEN 8471
(1) BELDEN 9620
(1) □14AWG STRANDED WIRE
(2) □16AWG STRANDED WIRE

5 (1) BELDEN 9729

6 (2) □16AWG

7 (1) BELDEN 9620

(□) QUANTITY AS NEEDED - SEE DEVICE DETAILS

NOTES:

CONTRACTOR TO VERIFY THAT ETHERNET CABLE RUNS DO NOT EXCEED 300'.

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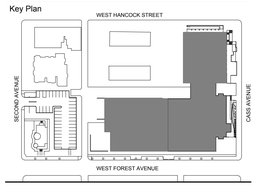
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |


DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ARCHITECTURAL LIGHTING CONTROL BLOCK DIAGRAM - PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

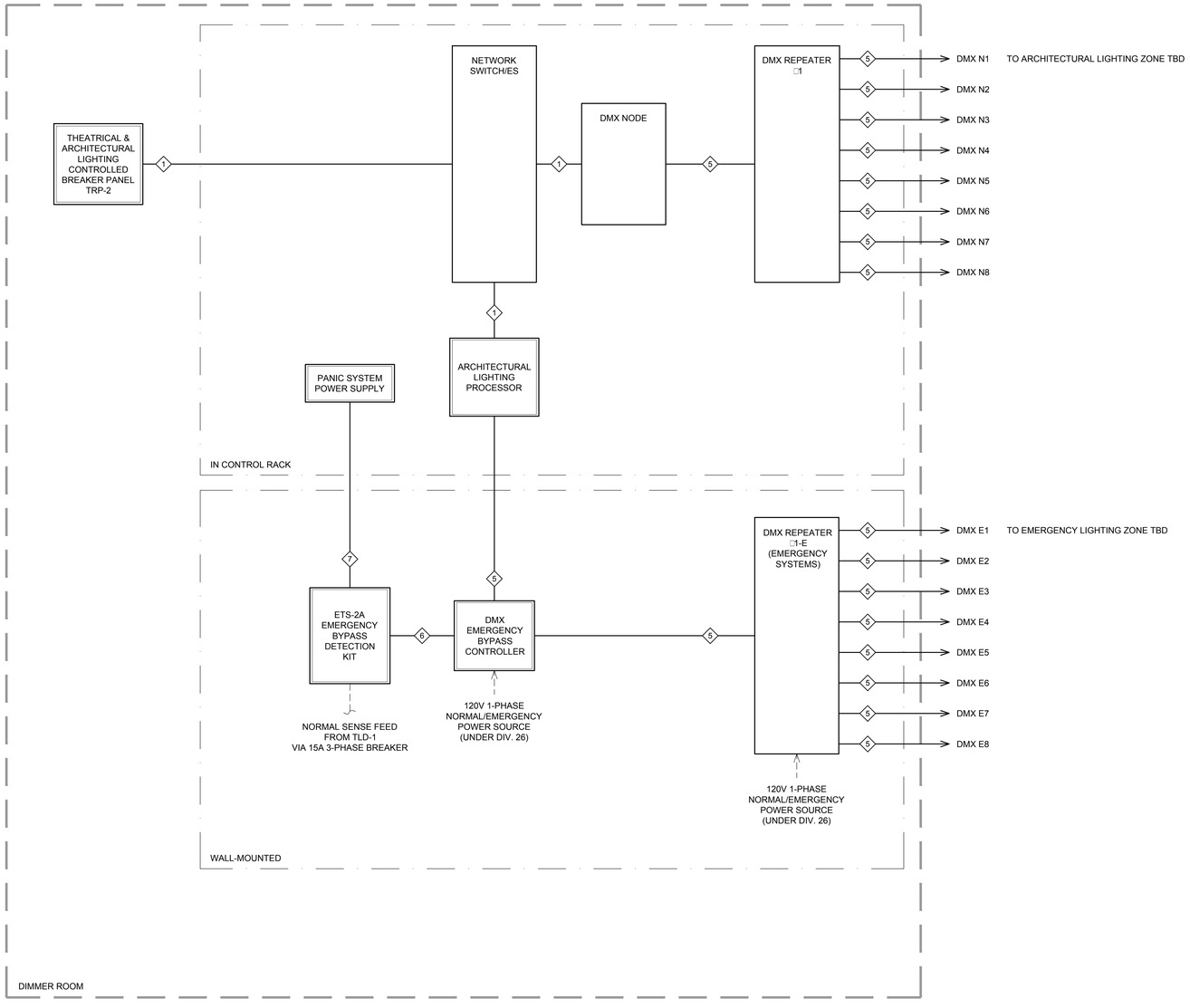
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TL6.4

Sheet Size: 30" x 42"
: Template Version




1 ARCHITECTURAL LIGHTING CONTROL / EMERGENCY SYSTEM BLOCK DIAGRAM - STUDIO THEATRE
NOT TO SCALE

NOTES:

1. RISER IS BASED ON A ONE-TO-ONE ASSIGNMENT OF ARCHITECTURAL LIGHTING CONTROL ZONES TO CONTROL OUTPUTS. ACTUAL NUMBER OF OUTPUTS REQUIRED TO BE COORDINATED WITH ELECTRICAL ENGINEER.
2. EMERGENCY LIGHTING ZONES TO BE COORDINATED WITH ELECTRICAL ENGINEER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL LIGHTING FIXTURES LAYOUT.

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(1) BELDEN 9620
(1) □14AWG STRANDED WIRE
(2) □16AWG STRANDED WIRE

5 (1) BELDEN 9729

6 (2) □16AWG

7 (1) BELDEN 9620

(□) QUANTITY AS NEEDED - SEE DEVICE DETAILS

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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
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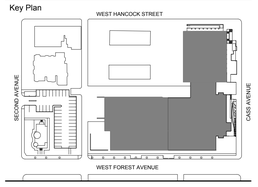
DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

ARCHITECTURAL LIGHTING CONTROL BLOCK DIAGRAM - STUDIO THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TL6.5

Sheet Size: 30" x 42"
: Template Version

| DEVICE TC:: | BOX DESCRIPTION TYPE | BOX DESCRIPTION LOCATION | PLAN REF. | NETWORK QTY. | NETWORK SWITCH / □ | 20A / 120V (DIV. 26) QTY. | 20A / 120V (DIV. 26) PANEL / □ | DEVICE DETAIL | MOUNTING | HEIGHT | MOUNTING DETAIL | FACEPLATE FINISH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | ET | Orchestra Pit | TL1.0B | 1 | A / 1 | 1 | TLG-1 | 3 / TL5.1 | Flush | 18" A.F.F. | | Black |
| 002 | ET | Trap Room | TL1.0B | 1 | A / 2 | 1 | TLG-1 | 3 / TL5.1 | Flush | 18" A.F.F. | | Black |
| 003 | ET | Trap Room | TL1.0B | 1 | A / 3 | 1 | TLG-1 | 3 / TL5.1 | Flush | 18" A.F.F. | | Black |
| 004 | EP | Orchestra Pit | TL1.0B | | | | | 1 / TL5.1 | Flush | P.S.H. | | Black |
| 005 | EP | Orchestra Pit | TL1.0B | | | | | 1 / TL5.1 | Flush | P.S.H. | | Black |
| 006 | EP | Trap Room | TL1.0B | | | | | 1 / TL5.1 | Flush | P.S.H. | | Black |
| 101 | CC2 | DSL | TL1.1B | 2 | A / 4, 5 | 1 | TLG-1 | 5 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 102 | ET2 | DSR | TL1.1B | 2 | A / 6, 7 | 2 | TLG-1 | 9 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 103 | ET2 | USL | TL1.1B | 2 | A / 8, 9 | 1 | TLG-1 | 5 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 104 | ET2 | USR | TL1.1B | 2 | A / 10, 11 | 1 | TLG-1 | 5 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 105 | ET2 | Box Boom 1 HR | TL1.1B | 2 | A / 12, 13 | 1 | TLG-1 | 5 / TL5.1 | Surface | TBD | | Black |
| 106 | ET2 | Box Boom 1 HL | TL1.1B | 2 | A / 14, 15 | 1 | TLG-1 | 5 / TL5.1 | Surface | TBD | | Black |
| 107 | CC2 | Tech Position | TL1.1B | 2 | A / 16, 17 | 2 | TLG-1 | 1 / TL5.2 | Floor Box | Floor | | Black |
| 108 | HL | DSR | TL1.1B | | | | | 2 / TL5.2 | Surface | P.S.H. | | Black |
| 109 | EP | USL Entry | TL1.1B | | | | | 2 / TL5.1 | Surface | P.S.H. | | Black |
| 110 | EP | USR Entry | TL1.1B | | | | | 2 / TL5.1 | Surface | P.S.H. | | Black |
| 111 | EP | HR Entry | TL1.1B | | | | | 1 / TL5.1 | Flush | P.S.H. | | TBD BY ARCHITECT |
| 112 | EP | HL Entry | TL1.1B | | | | | 1 / TL5.1 | Flush | P.S.H. | | TBD BY ARCHITECT |
| 113 | ET | Paint Shop | TL1.1C | 1 | A / 18 | 1 | TLG-1 | 4 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 121 | ET2 | Box Boom 2 HR | TL1.2B | 2 | A / 19, 20 | 1 | TLG-1 | 5 / TL5.1 | Surface | TBD | | Black |
| 122 | ET2 | Box Boom 2 HL | TL1.2B | 2 | A / 21, 22 | 1 | TLG-1 | 5 / TL5.1 | Surface | TBD | | Black |
| 123 | ET | Booth Rail | TL1.2B | 1 | B / 1 | 1 | TLG-1 | 3 / TL5.1 | Flush | 18" A.F.F. | | TBD BY ARCHITECT |
| 124 | CC1 | Control Room | TL1.2B | 4 | B / 2-5 | 2 | TLG-1 | 7 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 141 | ET2 | Gallery SL | TL1.3B | 2 | B / 6, 7 | 1 | TLG-1 | 5 / TL5.1 | Surface | Pipe | | Black |
| 142 | ET2 | Gallery SL | TL1.3B | 2 | B / 8, 9 | 1 | TLG-1 | 5 / TL5.1 | Surface | Pipe | | Black |
| 143 | ET2 | Gallery SL | TL1.3B | 2 | B / 10, 11 | 1 | TLG-1 | 5 / TL5.1 | Surface | Pipe | | Black |
| 144 | ET2 | Gallery SL | TL1.3B | 2 | B / 12, 13 | 1 | TLG-1 | 5 / TL5.1 | Surface | Pipe | | Black |
| 145 | ET2 | Gallery SR | TL1.3B | 2 | B / 14, 15 | 1 | TLG-1 | 5 / TL5.1 | Surface | Pipe | | Black |
| 151 | ET | Paint Shop Grid | TL2.2C | 1 | B / 16 | 1 | TLG-1 | 4 / TL5.1 | Surface | Pipe | | Black |
| 161 | ET2 | Forestage Grid | TL1.3B | 2 | B / 17, 18 | 1 | TLG-1 | 5 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 162 | EN2 | Catwalk □1 | TL1.3B | 1 | B / 19 | | | | Surface | Pipe | | Black |
| 163 | ET | Catwalk □1 | TL1.3B | 1 | B / 20 | 1 | TLG-1 | 4 / TL5.1 | Surface | Pipe | | Black |
| 164 | EN2 | Catwalk □2 | TL1.3B | 1 | B / 21 | | | | Surface | Pipe | | Black |
| 165 | ET | Catwalk □2 | TL1.3B | 1 | B / 22 | 1 | TLG-1 | 4 / TL5.1 | Surface | Pipe | | Black |
| 166 | ET | Tech Platform HR | TL1.3B | 1 | C / 1 | 1 | TLG-1 | 4 / TL5.1 | Surface | Pipe | | Black |
| 167 | ET | Tech Platform HL | TL1.3B | 1 | C / 2 | 1 | TLG-1 | 4 / TL5.1 | Surface | Pipe | | Black |
| 168 | ET | Followspot Booth | TL1.3B | 1 | C / 3 | 1 | TLG-1 | 4 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 169 | EP | Catwalk Entry HR | TL1.3B | | | | | 2 / TL5.1 | Surface | P.S.H. | | Black |
| 170 | EP | Catwalk Entry HL | TL1.3B | | | | | 2 / TL5.1 | Surface | P.S.H. | | Black |
| 181 | ET2 | Grid DSL | TL1.4B | 2 | C / 4, 5 | 1 | TLG-1 | 5 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 182 | ET2 | Grid DSR | TL1.4B | 2 | C / 6, 7 | 1 | TLG-1 | 5 / TL5.1 | Surface | 18" A.F.F. | | Black |
| | | Dimmer Rack DR-1 | | 1 | C / 8 | | | | | | | |
| | | Controlled Breaker Panel TRP-1A-1B | | 2 | C / 9, 10 | | | | | | | |
| | | Network Control Rack CR-1 | | 1 | C / 11 | 2 | TLG-1 | | | | | |
| | | Architectural Lighting Processor | | 1 | C / 12 | | | | | | | |
| | | Control Gateway (Normal) | | 1 | C / 13 | | | | | In Rack | | |
| | | Control Gateway (Emergency) | | | | | EM Circuit | | | Adjacent to Rack | | |
| | | Emergency Bypass Controller | | | | | EM Circuit | | | Adjacent to Rack | | |

NOTES:
1. P.S.H. = PROJECT SWITCH HEIGHT
2. P.R.H. = PROJECT RECEPTACLE HEIGHT
3. ALL MOUNTING HEIGHT DIMENSIONS ARE TO BOTTOM OF DEVICE

## 1 THEATRICAL LIGHTING SYSTEM CONTROL SCHEDULE - PROSCENIUM THEATRE

NOT TO SCALE

| DEVICE TD:: | BOX DESCRIPTION TYPE | BOX DESCRIPTION LOCATION | PLAN REF. | 2.4kW DIMMERS AMP. | QTY | DMX ADDRESS | | | RACK | 120V SWITCHED AMP. | QTY | DMX ADDRESS | | | PANEL | DEVICE DETAIL | MOUNTING | HEIGHT | MOUNTING DETAIL | FACEPLATE FINISH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | PBR 1 | Orchestra Pit | TL1.0B | 20A | 1 | 1 | - | 1 | DR-1 | | | | | | | 5 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 002 | PBR 1 | Orchestra Pit | TL1.0B | 20A | 1 | 2 | - | 2 | DR-1 | | | | | | | 5 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 003 | PBR 2 | Trap Room | TL1.0B | 20A | 2 | 3 | - | 4 | DR-1 | | | | | | | 6 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 004 | PBR 2 | Trap Room | TL1.0B | 20A | 2 | 5 | - | 6 | DR-1 | | | | | | | 6 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 101 | PBR 6 | DSL | TL1.1B | 20A | 4 | 7 | - | 10 | DR-1 | 20A | 2 | 101 | - | 102 | TRP-1A | 2 / TL5.4 | Surface | 18" A.F.F. | | Black |
| 102 | PBR 6 | DSR | TL1.1B | 20A | 4 | 11 | - | 14 | DR-1 | 20A | 2 | 103 | - | 104 | TRP-1A | 2 / TL5.4 | Surface | 18" A.F.F. | | Black |
| 103 | MBR 8 | USL | TL1.1B | 20A | 6 | 15 | - | 20 | DR-1 | 20A | 2 | 105 | - | 106 | TRP-1A | 4 / TL5.5 | Surface | 18" A.F.F. | | Black |
| 104 | MBR 8 | USR | TL1.1B | 20A | 6 | 21 | - | 26 | DR-1 | 20A | 2 | 107 | - | 108 | TRP-1A | 4 / TL5.5 | Surface | 18" A.F.F. | | Black |
| 105 | PBR 3 | Box Boom 1 HR | TL1.1B | | | | | | | 20A | 3 | 109 | - | 111 | TRP-1A | 1 / TL5.4 | Surface | TBD | | Black |
| 106 | PBR 3 | Box Boom 1 HL | TL1.1B | | | | | | | 20A | 3 | 112 | - | 114 | TRP-1A | 1 / TL5.4 | Surface | TBD | | Black |
| 121 | PBR 3 | Box Boom 2 HR | TL1.1.1B | | | | | | | 20A | 3 | 115 | - | 117 | TRP-1A | 1 / TL5.4 | Surface | TBD | | Black |
| 122 | PBR 3 | Box Boom 2 HL | TL1.1.1B | | | | | | | 20A | 3 | 118 | - | 120 | TRP-1A | 1 / TL5.4 | Surface | TBD | | Black |
| 123 | PBR 4 | Booth Rail | TL1.1.1B | 20A | 4 | 27 | - | 30 | DR-1 | | | | | | | 8 / TL5.3 | Flush | Pipe | | TBD BY ARCHITECT |
| 141 | MBP 12 | Gallery SL | TL1.2B | | | | | | | 20A | 12 | 121 | - | 132 | TRP-1A | 3 / TL5.5 | Surface | Pipe | | Black |
| 142 | MBP 9 | Gallery SL | TL1.2B | 20A | 6 | 31 | - | 36 | DR-1 | 20A | 3 | 133 | - | 135 | TRP-1A | 2 / TL5.5 | Surface | Pipe | | Black |
| 143 | MBP 12 | Gallery SL | TL1.2B | | | | | | | 20A | 12 | 136 | - | 147 | TRP-1A | 3 / TL5.5 | Surface | Pipe | | Black |
| 144 | MBP 9 | Gallery SL | TL1.2B | 20A | 6 | 37 | - | 42 | DR-1 | 20A | 3 | 148 | - | 150 | TRP-1A / 1B | 2 / TL5.5 | Surface | Pipe | | Black |
| 145 | MBP 6 | Gallery SL | TL1.2B | | | | | | | 20A | 6 | 151 | - | 156 | TRP-1B | 1 / TL5.5 | Surface | Pipe | | Black |
| 146 | MBP 9 | Gallery SR | TL1.2B | 20A | 6 | 43 | - | 48 | DR-1 | 20A | 3 | 157 | - | 159 | TRP-1B | 2 / TL5.5 | Surface | Pipe | | Black |
| 147 | MBP 9 | Gallery SR | TL1.2B | 20A | 6 | 49 | - | 54 | DR-1 | 20A | 3 | 160 | - | 162 | TRP-1B | 2 / TL5.5 | Surface | Pipe | | Black |
| 151 | PBR 2 | Paint Shop Grid | TL2.2C | | | | | | | 20A | 2 | 163 | - | 164 | TRP-1B | 3 / TL5.3 | Surface | Pipe | | Black |
| 152 | PBR 2 | Paint Shop Grid | TL2.2C | | | | | | | 20A | 2 | 165 | - | 166 | TRP-1B | 3 / TL5.3 | Surface | Pipe | | Black |
| 161 | MBP 9 | Forestage Grid | TL1.3B | 20A | 6 | 55 | - | 60 | DR-1 | 20A | 3 | 167 | - | 169 | TRP-1B | 2 / TL5.5 | Surface | 18" A.F.F. | | Black |
| 162 | PSP 19 | Catwalk □1 | TL1.3B | 20A | 15 | 61 | - | 75 | DR-1 | 20A | 4 | 170 | - | 173 | TRP-1B | 3 / TL5.4 | Surface | Pipe | | Black |
| 163 | PSP 19 | Catwalk □2 | TL1.3B | 20A | 15 | 76 | - | 90 | DR-1 | 20A | 4 | 174 | - | 177 | TRP-1B | 3 / TL5.4 | Surface | Pipe | | Black |
| 164 | PBR 1 | Tech Platform HR | TL1.3B | 20A | 1 | 91 | - | 91 | DR-1 | | | | | | | 1 / TL5.3 | Surface | Pipe | | Black |
| 165 | PBR 1 | Tech Platform HL | TL1.3B | 20A | 1 | 92 | - | 92 | DR-1 | | | | | | | 1 / TL5.3 | Surface | Pipe | | Black |
| 166 | PBR 3 | Followspot Booth | TL1.3B | | | | | | | 20A | 3 | 178 | - | 180 | TRP-1B | 1 / TL5.4 | Surface | 18" A.F.F. | | Black |
| 181 | PBR 2 | Grid DSL | TL1.4B | | | | | | | 20A | 2 | 181 | - | 182 | TRP-1B | 3 / TL5.3 | Surface | 18" A.F.F. | | Black |
| 182 | PBR 2 | Grid DSR | TL1.4B | | | | | | | 20A | 2 | 183 | - | 184 | TRP-1B | 3 / TL5.3 | Surface | 18" A.F.F. | | Black |
| 183 | PBR 2 | Grid USL | TL1.4B | 20A | 2 | 93 | - | 94 | DR-1 | | | | | | | 2 / TL5.3 | Surface | 18" A.F.F. | | Black |
| 184 | PBR 2 | Grid USR | TL1.4B | 20A | 2 | 95 | - | 96 | DR-1 | | | | | | | 2 / TL5.3 | Surface | 18" A.F.F. | | Black |
| | | Houselight Allowance | | | | | | | | 20A | 12 | TBD | | | TRP-1B | | | | | |

NOTES:
1. ALL CIRCUITS ARE HOME RUN TO DIMMER RACKS OR RELAY PANELS. NO COMMON NEUTRALS.
2. ALL MOUNTING HEIGHT DIMENSIONS ARE TO BOTTOM OF DEVICE.
3. DMX ADDRESSES REFER TO CIRCUIT NUMBERS.

## 2 THEATRICAL LIGHTING SYSTEM DISTRIBUTION SCHEDULE - PROSCENIUM THEATRE

NOT TO SCALE

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY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Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

Civil Engineer — Spalding DeDecker, 905 South Blvd East, Rochester Hills, MI 48307, 800.598.1600

Landscape Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

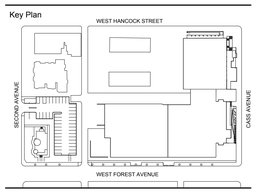
Theatrical — Auerbach Pollock Friedlander, 266 West 37th Street, New York, NY 10018, 212.764.5630

Lighting — Auerbach Glasow, 1045 Sansome Street, Suite 300, San Fransisco, CA 94111, 415.392.7528

Acoustics — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN 30, 2019

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL LIGHTING SCHEDULES PROSCENIUM THEATRE

Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TL8.1

Sheet Size: 30" x 42"
: Template Version

| DEVICE TC:: | BOX DESCRIPTION TYPE | BOX DESCRIPTION LOCATION | PLAN REF. | NETWORK QTY. | NETWORK SWITCH / □ | 20A / 120V (DIV. 26) QTY. | 20A / 120V (DIV. 26) PANEL / □ | DEVICE DETAIL | MOUNTING | HEIGHT | MOUNTING DETAIL | FACEPLATE FINISH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | ET | Wall - South | TL1.1B | 1 | A / 1 | 1 | TLG-2 | 3 / TL5.1 | Flush | 18" A.F.F. | | Black |
| 202 | ET | Wall - West | TL1.1B | 1 | A / 2 | 1 | TLG-2 | 3 / TL5.1 | Flush | 18" A.F.F. | | Black |
| 203 | ET | Wall - North | TL1.1B | 1 | A / 3 | 1 | TLG-2 | 3 / TL5.1 | Flush | 18" A.F.F. | | Black |
| 204 | CC2 | Wall - East | TL1.1B | 2 | A / 4, 5 | 2 | TLG-2 | 8 / TL5.1 | Flush | 18" A.F.F. | | Black |
| 205 | EP | Crossover Entry | TL1.1B | | | | | 1 / TL5.1 | Flush | P.S.H. | | Black |
| 206 | EP | West Entry | TL1.1B | | | | | 1 / TL5.1 | Flush | P.S.H. | | TBD BY ARCHITECT |
| 207 | EP | East SLL | TL1.1B | | | | | 1 / TL5.1 | Flush | P.S.H. | | TBD BY ARCHITECT |
| 211 | ET | Under Gallery - South | TL2.1B | 1 | A / 6 | 1 | TLG-2 | 3 / TL5.1 | Flush | Ceiling | | TBD BY ARCHITECT |
| 212 | ET | Under Gallery - North | TL2.1B | 1 | A / 7 | 1 | TLG-2 | 3 / TL5.1 | Flush | Ceiling | | TBD BY ARCHITECT |
| 221 | CC1 | Control Booth | TL1.2B | 4 | A / 8-11 | 2 | TLG-2 | 7 / TL5.1 | Surface | 18" A.F.F. | | Black |
| 222 | EP | West Entry | TL1.2B | | | | | 1 / TL5.1 | Flush | P.S.H. | | TBD BY ARCHITECT |
| 241 | ET2 | Grid South | TL1.2.1B | 2 | A / 12, 13 | 1 | TLG-2 | 5 / TL5.1 | Surface | Pipe | | Black |
| 242 | EN2 | Grid | TL1.2.1B | 1 | A / 14 | | | 6 / TL5.1 | Surface | Pipe | | Black |
| 243 | EN2 | Grid | TL1.2.1B | 1 | A / 15 | | | 6 / TL5.1 | Surface | Pipe | | Black |
| 244 | EN2 | Grid | TL1.2.1B | 1 | A / 16 | | | 6 / TL5.1 | Surface | Pipe | | Black |
| 245 | EN2 | Grid | TL1.2.1B | 1 | A / 17 | | | 6 / TL5.1 | Surface | Pipe | | Black |
| 246 | ET2 | Grid North | TL1.2.1B | 2 | A / 18, 19 | 1 | TLG-2 | 5 / TL5.1 | Surface | Pipe | | Black |
| 247 | EN2 | Grid | TL1.2.1B | 1 | A / 20 | | | 6 / TL5.1 | Surface | Pipe | | Black |
| 248 | EP | Grid Entry | TL1.2.1B | | | | | 2 / TL5.1 | Surface | P.S.H. | | Black |
| | | Controlled Breaker Panel TRP-2 | | 1 | B / 1 | | | | | | | |
| | | Network Control Rack CR-2 | | 1 | B / 2 | 2 | TLG-2 / 16, 17 | | | | | |
| | | Architectural Lighting Processor | | 1 | B / 3 | | | | | | | |
| | | Control Gateway (Normal) | | 1 | B / 4 | | | | | In Rack | | |
| | | Control Gateway (Emergency) | | | | | EM Circuit | | | Adjacent to Rack | | |
| | | Emergency Bypass Controller | | | | | EM Circuit | | | Adjacent to Rack | | |

NOTES:
1. P.S.H. = PROJECT SWITCH HEIGHT
2. P.R.H. = PROJECT RECEPTACLE HEIGHT
3. ALL MOUNTING HEIGHT DIMENSIONS ARE TO BOTTOM OF DEVICE

## 1 THEATRICAL LIGHTING SYSTEM CONTROL SCHEDULE - STUDIO THEATRE

NOT TO SCALE

| DEVICE TD:: | BOX DESCRIPTION TYPE | BOX DESCRIPTION LOCATION | PLAN REF. | 2.4kW DIMMERS AMP. | QTY | DMX ADDRESS | | | RACK | 120V SWITCHED AMP. | QTY | DMX ADDRESS | | | PANEL | DEVICE DETAIL | MOUNTING | HEIGHT | MOUNTING DETAIL | FACEPLATE FINISH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | PBR 2 | Wall - South | TL1.1B | | | | | | | 20A | 2 | 1 | - | 2 | TRP-2 | 7 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 202 | PBR 2 | Wall - South | TL1.1B | | | | | | | 20A | 2 | 3 | - | 4 | TRP-2 | 7 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 203 | PBR 2 | Wall - West | TL1.1B | | | | | | | 20A | 2 | 5 | - | 6 | TRP-2 | 7 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 204 | PBR 2 | Wall - West | TL1.1B | | | | | | | 20A | 2 | 7 | - | 8 | TRP-2 | 7 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 205 | PBR 2 | Wall - North | TL1.1B | | | | | | | 20A | 2 | 9 | - | 10 | TRP-2 | 7 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 206 | PBR 2 | Wall - North | TL1.1B | | | | | | | 20A | 2 | 11 | - | 12 | TRP-2 | 7 / TL5.3 | Flush | 18" A.F.F. | | Black |
| 211 | PBR 1 | Under Gallery - South | TL2.1B | | | | | | | 20A | 1 | 13 | - | 13 | TRP-2 | 4 / TL5.3 | Flush | Ceiling | | TBD BY ARCHITECT |
| 212 | PBR 1 | Under Gallery - South | TL2.1B | | | | | | | 20A | 1 | 14 | - | 14 | TRP-2 | 4 / TL5.3 | Flush | Ceiling | | TBD BY ARCHITECT |
| 213 | PBR 1 | Under Gallery - North | TL2.1B | | | | | | | 20A | 1 | 15 | - | 15 | TRP-2 | 4 / TL5.3 | Flush | Ceiling | | TBD BY ARCHITECT |
| 214 | PBR 1 | Under Gallery - North | TL2.1B | | | | | | | 20A | 1 | 16 | - | 16 | TRP-2 | 4 / TL5.3 | Flush | Ceiling | | TBD BY ARCHITECT |
| 241 | PBR 3 | Grid South | TL1.2B | | | | | | | 20A | 3 | 17 | - | 19 | TRP-2 | 1 / TL5.4 | Surface | Pipe | | Black |
| 242 | PBR 3 | Grid South | TL1.2B | | | | | | | 20A | 3 | 20 | - | 22 | TRP-2 | 1 / TL5.4 | Surface | Pipe | | Black |
| 243 | PBR 3 | Grid South | TL1.2B | | | | | | | 20A | 3 | 23 | - | 25 | TRP-2 | 1 / TL5.4 | Surface | Pipe | | Black |
| 244 | PBR 2 | Grid West | TL1.2B | | | | | | | 20A | 2 | 26 | - | 27 | TRP-2 | 3 / TL5.4 | Surface | Pipe | | Black |
| 245 | PBR 2 | Grid West | TL1.2B | | | | | | | 20A | 2 | 28 | - | 29 | TRP-2 | 3 / TL5.4 | Surface | Pipe | | Black |
| 246 | PBR 2 | Grid West | TL1.2B | | | | | | | 20A | 2 | 30 | - | 31 | TRP-2 | 3 / TL5.4 | Surface | Pipe | | Black |
| 247 | PBR 3 | Grid North | TL1.2B | | | | | | | 20A | 3 | 32 | - | 34 | TRP-2 | 1 / TL5.4 | Surface | Pipe | | Black |
| 248 | PBR 3 | Grid North | TL1.2B | | | | | | | 20A | 3 | 35 | - | 37 | TRP-2 | 1 / TL5.4 | Surface | Pipe | | Black |
| 249 | PBR 3 | Grid North | TL1.2B | | | | | | | 20A | 3 | 38 | - | 40 | TRP-2 | 1 / TL5.4 | Surface | Pipe | | Black |
| 250 | PBR 2 | Grid East | TL1.2B | | | | | | | 20A | 2 | 41 | - | 42 | TRP-2 | 3 / TL5.4 | Surface | Pipe | | Black |
| | | Houselight Allowance | | | | | | | | 20A | 6 | TBD | | | TRP-2 | | | | | |

NOTES:
1. ALL CIRCUITS ARE HOME RUN TO DIMMER RACKS OR RELAY PANELS. NO COMMON NEUTRALS.
2. ALL MOUNTING HEIGHT DIMENSIONS ARE TO BOTTOM OF DEVICE.
3. DMX ADDRESSES REFER TO CIRCUIT NUMBERS.

## 2 THEATRICAL LIGHTING SYSTEM DISTRIBUTION SCHEDULE - STUDIO THEATRE

NOT TO SCALE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WAYNE STATE UNIVERSITY

Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

MEP Engineer — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

Structural Engineer — DESI / NASR Consulting Engineers, 6765 Daly Road, West Bloomfield, MI 48322, 248.392.2010

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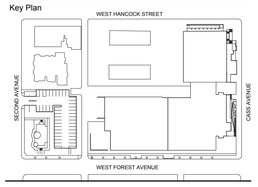
Acoustics — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan




100% DESIGN DEVELOPMENT — JAN 30, 2019

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL LIGHTING SCHEDULES STUDIO THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

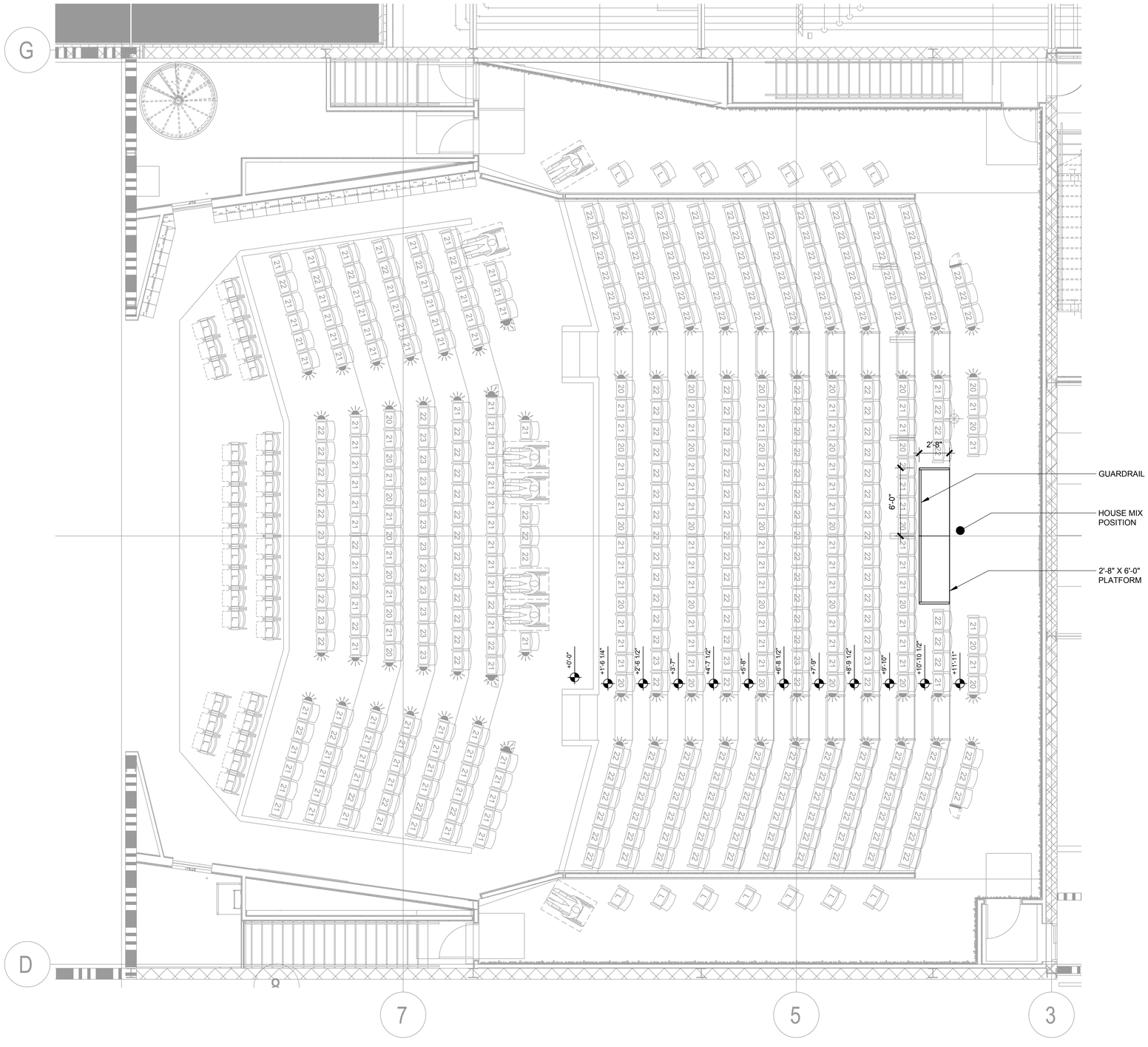
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# TL8.2

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL PLATFORMING PLAN - PROSCENIUM THEATRE, LEVEL TWO
1/4"=1'-0"

## PLATFORMING TOTALS

TOTAL QUANTITIES:
(2) 2'-8" X 6'-0" PLATFORM (12.5" H)
(2) 2'-8"'L SIDE GUARD RAIL
(2) 6'L FRONT GUARD RAIL

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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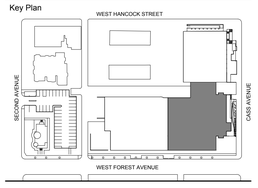
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL PLATFORMING PLAN - PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

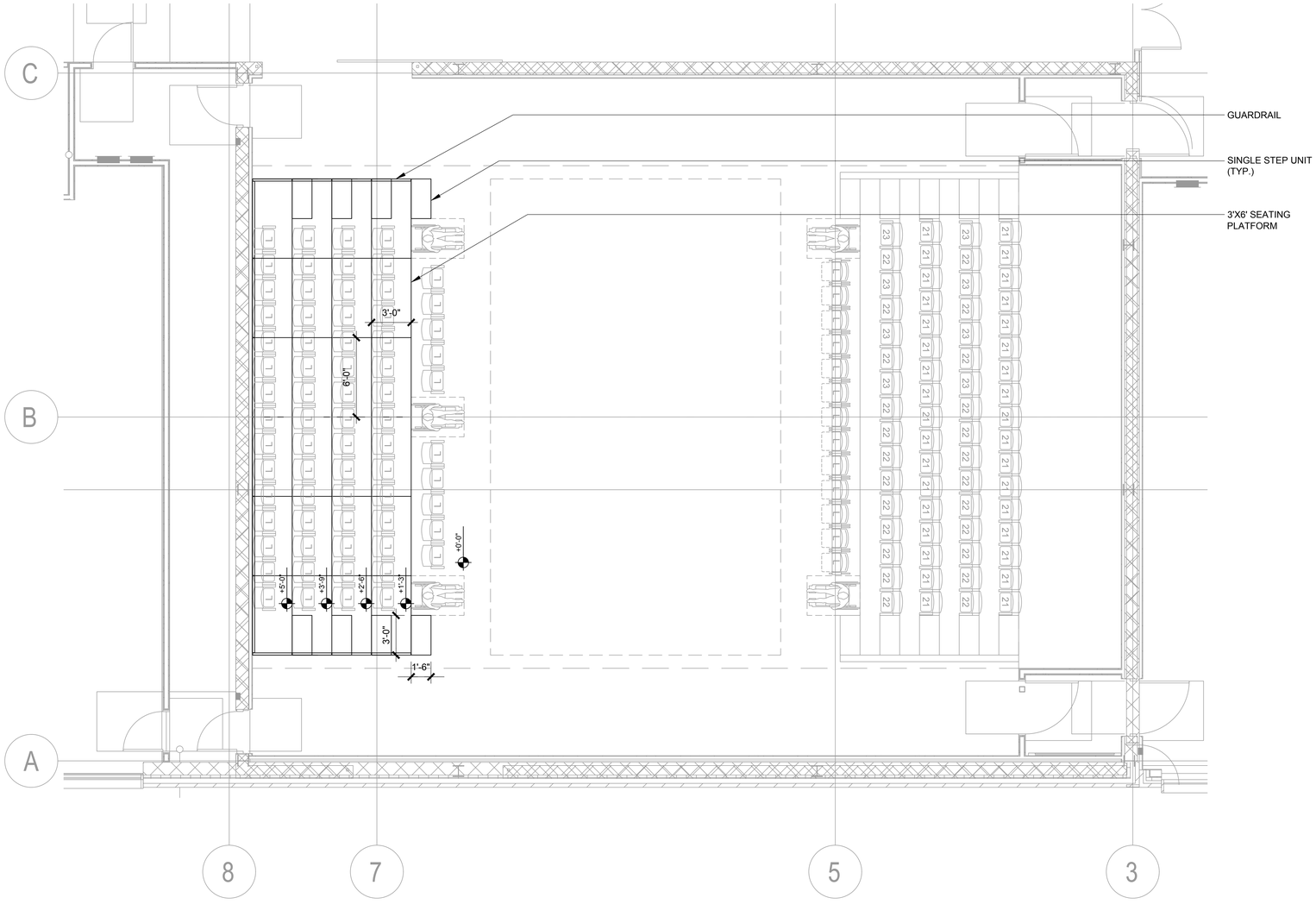
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TP1.12B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL PLATFORMING LAYOUT PLAN - STUDIO THEATRE, LEVEL ONE - ALLEY CONFIGURATION
1/4"=1'-0"

## PLATFORMING TOTALS

TOTAL QUANTITIES:
(24) 3'X6' PLATFORM
(8) 18" X 36" STEP UNITS
(8) 3'L SIDE GUARD RAIL
(6) 6'L BACK GUARD RAIL

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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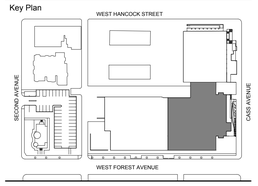
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL PLATFORMING PLAN - STUDIO THEATRE ALLEY

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

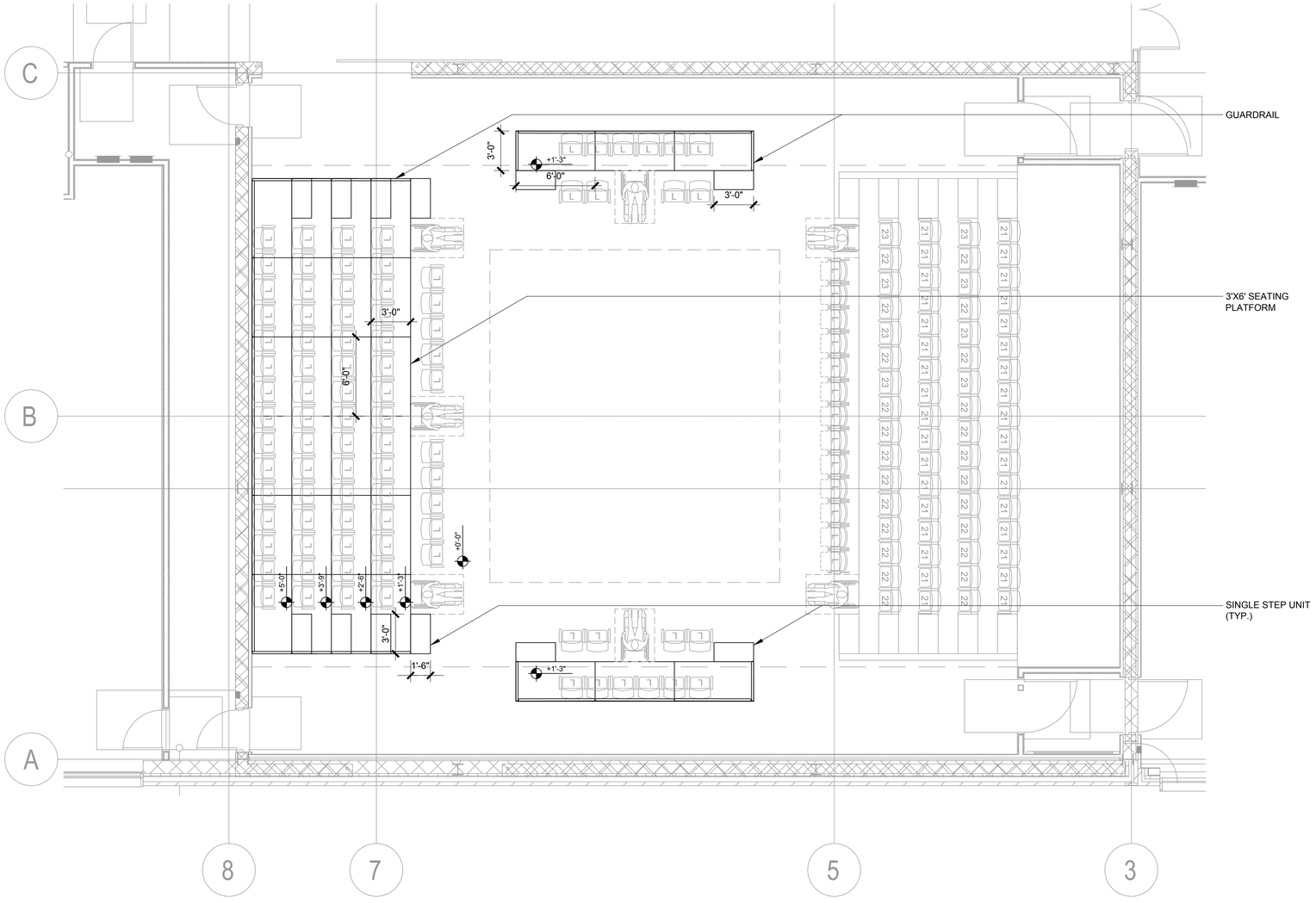
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

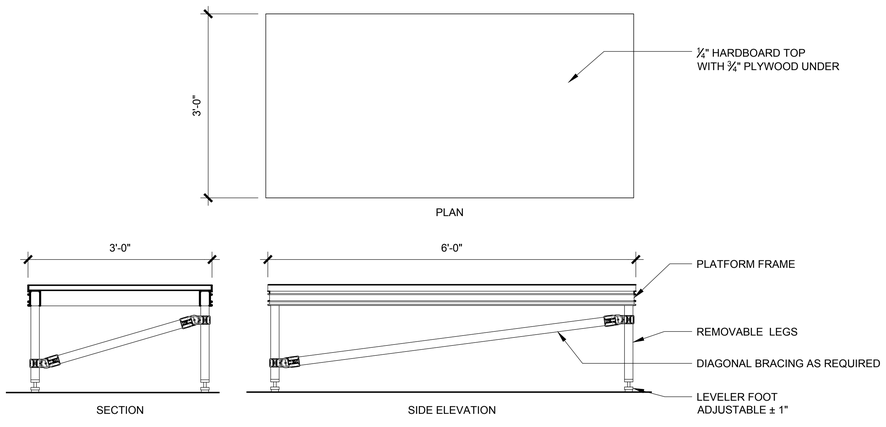
Drawing No:

TP1.21B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL PLATFORMING LAYOUT PLAN - STUDIO THEATRE, LEVEL ONE - ARENA CONFIGURATION
1/4"=1'-0"




2 TYPICAL SEATING AND STAGING PLATFORM DETAIL
1"=1'-0"

## PLATFORMING TOTALS

TOTAL QUANTITIES:
(30) 3'X6' PLATFORM
(8) 18" X 36" STEP UNITS
(8) 3'L SIDE GUARD RAIL
(6) 6'L BACK GUARD RAIL

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WAYNE STATE UNIVERSITY

| | |
|---|---|
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| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
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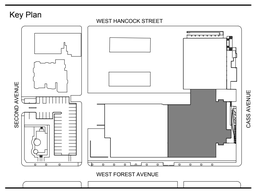
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL PLATFORMING PLAN - STUDIO THEATRE - ARENA

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

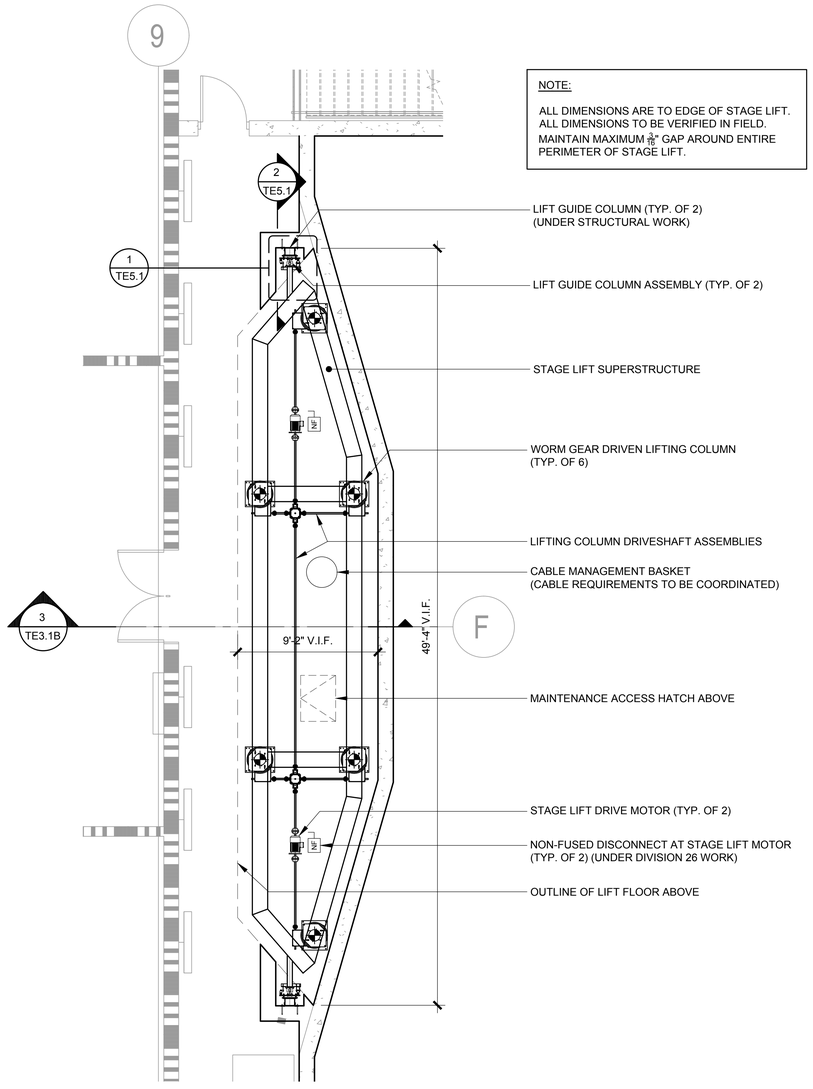
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TP1.22B

Sheet Size: 30" x 42"
: Template Version



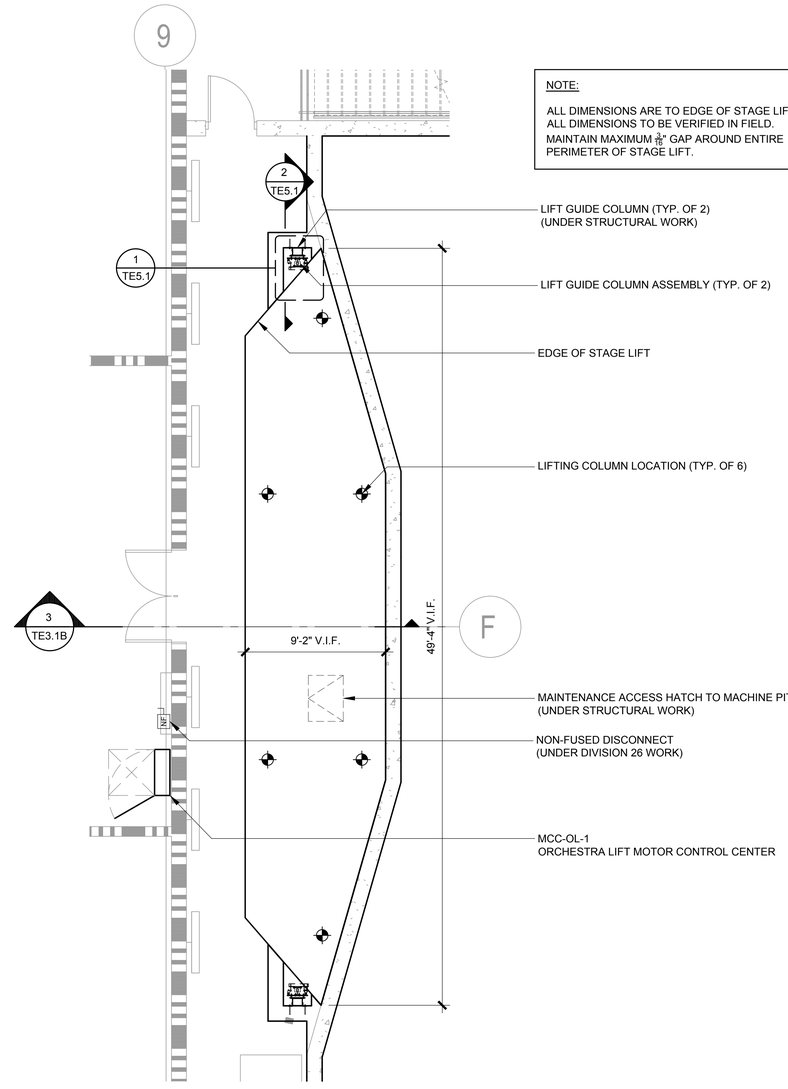

NOTE:

ALL DIMENSIONS ARE TO EDGE OF STAGE LIFT. ALL DIMENSIONS TO BE VERIFIED IN FIELD.
MAINTAIN MAXIMUM $\frac{3}{16}$" GAP AROUND ENTIRE PERIMETER OF STAGE LIFT.

## 1 ORCHESTRA LIFT PLAN AT MACHINE PIT

1/4"=1'-0"

NOTE: LIFT FRAMING AND FLOOR REMOVED

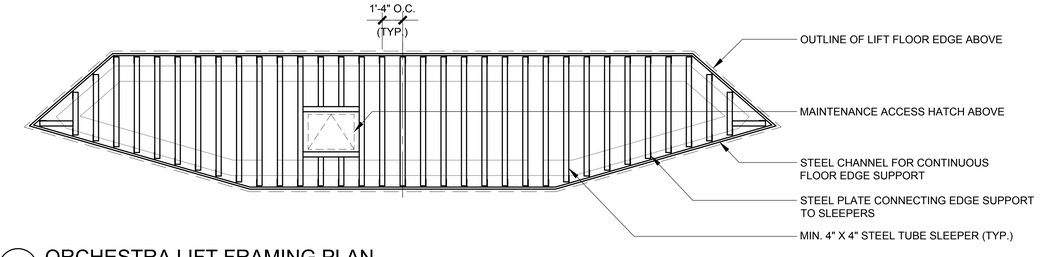



NOTE:

ALL DIMENSIONS ARE TO EDGE OF STAGE LIFT. ALL DIMENSIONS TO BE VERIFIED IN FIELD.
MAINTAIN MAXIMUM $\frac{3}{16}$" GAP AROUND ENTIRE PERIMETER OF STAGE LIFT.

## 2 ORCHESTRA LIFT PLAN AT LOWER LEVEL

1/4"=1'-0"




## 3 ORCHESTRA LIFT FRAMING PLAN

1/4"=1'-0"

### STAGE LIFT GENERAL NOTES

1. LIFT CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL DRIVE AND GUIDE MECHANISMS, AS WELL AS SUPERSTRUCTURE AND ASSOCIATED FRAMING TO SUPPORT THE LIFT FRAME, FLOORING SUBSTRATES AND FASCIA THAT ARE APPLIED TO THE LIFT AS PART OF THIS CONTRACT. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FRAMING REQUIRED TO SUPPORT RECESSED FLOOR BOXES AND DEVICES, RECESSED FASCIA BACK BOXES FOR SPEAKERS, AND ALL OTHER DEVICES WITHIN THE DOCUMENTS THAT REQUIRE MOUNTING IN BOTH HORIZONTAL AND VERTICAL LIFT SURFACES. FRAMING SHALL BE INTEGRATED IN SUCH A MANNER SO AS TO PROVIDE RIGID SUPPORT OF SURFACES AND DEVICES BEING MOUNTED. UNDER NO CIRCUMSTANCES SHALL UNSUPPORTED OR CANTILEVERED EDGE CONDITIONS EXIST, CREATING STRESS AND DAMAGE OPPORTUNITIES FOR APPLIED FLOORING AND/OR CARPENTRY WORK ASSOCIATED WITH THE FINISH COMPONENTS OF THE LIFT SYSTEM.
2. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
3. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
4. LIFT CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD.
5. ALL EQUIPMENT BY LIFT CONTRACTOR UNLESS NOTED OTHERWISE.
6. LIFT CONTRACTOR TO VERIFY RIGGING MOTOR SIZES, LOADS, POWER REQUIREMENTS, AND CONTROL WIRE TYPES, SIZES, AND COUNTS.
7. ALL CONDUIT, WIRE, POWER FEEDS, JUNCTION/PULL BOXES, NON-FUSED DISCONNECTS, AND FINAL TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
8. DIMENSIONS ARE PROVIDED FOR REFERENCE ONLY. REFER TO APPLICABLE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CRITICAL DIMENSIONS.
9. THIS DRAWING IS INTENDED TO PROVIDE INFORMATION REGARDING THEATRICAL EQUIPMENT ONLY. REFER TO APPLICABLE ARCHITECTURAL OR ENGINEERING DRAWINGS FOR ARCHITECTURAL AND ENGINEERING INFORMATION RELATING TO THE BUILDING.

### SYMBOL KEY

E-STOP/ CONTROL POINT — STAGE LIFT EMERGENCY STOP / CONTROL POINT

STAGE LIFT POINT LOAD

### LOADING / OPERATION CRITERIA

TOTAL AREA: 365 FT²

ESTIMATED LIFT SELF-WEIGHT (40 PSF): 14,600 LB.

SUSTAINING (STATIC) LOADING CRITERIA: 150 PSF + SELF WT

LIFTING (DYNAMIC) LOADING CRITERIA: 50 PSF + SELF WT

LIFT FLOOR CONCENTRATED LOADING: 250 PSF

TRAVEL: 12 FT. 0 IN. (PLUS OVERTRAVEL)

SPEED: 8 FT. PER MIN.

GUIDES: LINEAR MOTION BEARING BLOCKS

GUIDE COLUMN LOADING: 2500 LBS LATERAL LOAD AT EACH OF 2 GUIDE COLUMNS (OR CODE-REQUIRED SEISMIC DESIGN LOADS). LOADS MAY OCCUR IN ANY LATERAL DIRECTION AT ANY POINT ALONG THE TRAVEL OF THE LIFT.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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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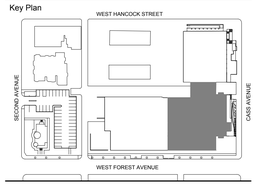
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan




| | |
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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ORCHESTRA LIFT PLAN LOWER LEVEL - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

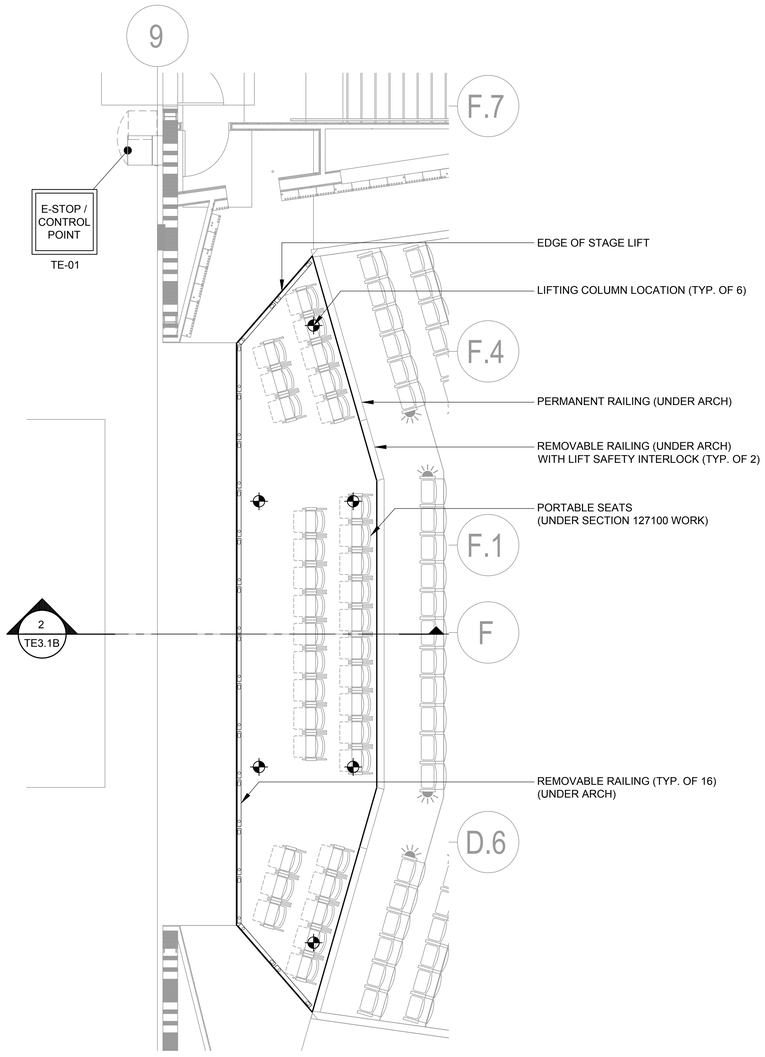
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

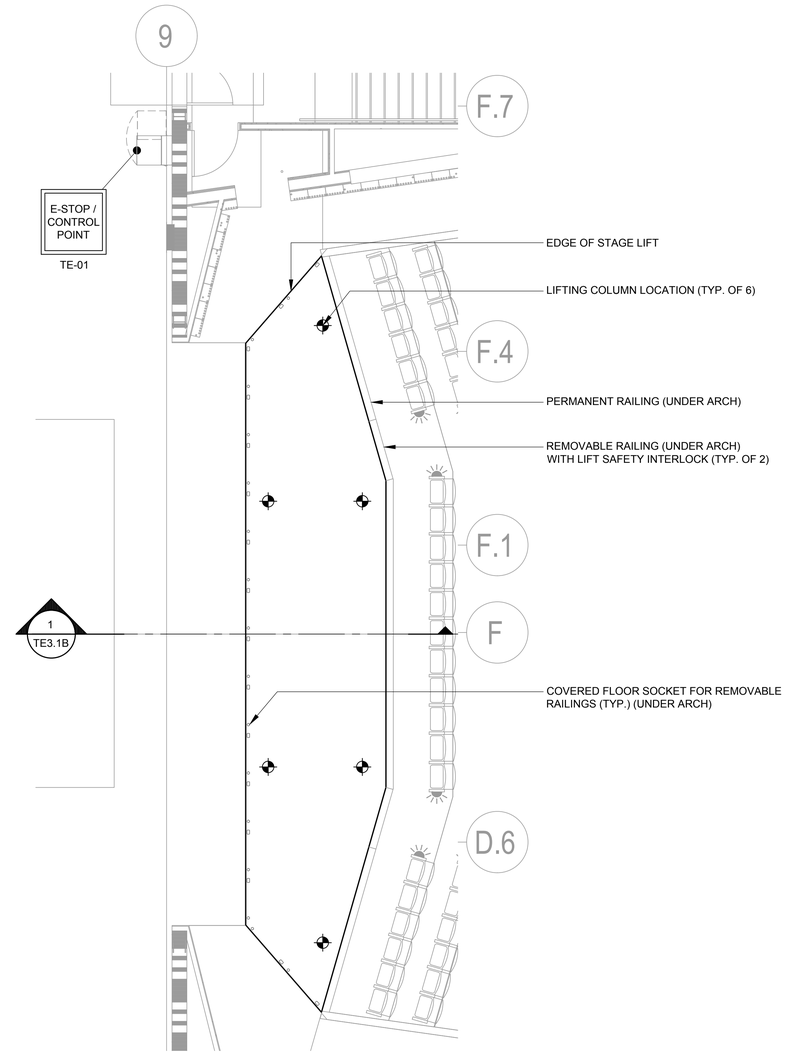
Drawing No:

# TE1.0B

Sheet Size: 30" x 42"
: Template Version




1 ORCHESTRA LIFT PLAN AT AUDIENCE LEVEL
1/4"=1'-0"




2 ORCHESTRA LIFT PLAN AT STAGE LEVEL
1/4"=1'-0"

## STAGE LIFT GENERAL NOTES

1. LIFT CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL DRIVE AND GUIDE MECHANISMS, AS WELL AS SUPERSTRUCTURE AND ASSOCIATED FRAMING TO SUPPORT THE LIFT FRAME, FLOORING SUBSTRATES AND FASCIA THAT ARE APPLIED TO THE LIFT AS PART OF THIS CONTRACT. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FRAMING REQUIRED TO SUPPORT RECESSED FLOOR BOXES AND DEVICES, RECESSED FASCIA BACK BOXES FOR SPEAKERS, AND ALL OTHER DEVICES WITHIN THE DOCUMENTS THAT REQUIRE MOUNTING IN BOTH HORIZONTAL AND VERTICAL LIFT SURFACES. FRAMING SHALL BE INTEGRATED IN SUCH A MANNER SO AS TO PROVIDE RIGID SUPPORT OF SURFACES AND DEVICES BEING MOUNTED. UNDER NO CIRCUMSTANCES SHALL UNSUPPORTED OR CANTILEVERED EDGE CONDITIONS EXIST, CREATING STRESS AND DAMAGE OPPORTUNITIES FOR APPLIED FLOORING AND/OR CARPENTRY WORK ASSOCIATED WITH THE FINISH COMPONENTS OF THE LIFT SYSTEM.
2. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
3. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
4. LIFT CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD.
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## SYMBOL KEY

E-STOP/ CONTROL POINT — STAGE LIFT EMERGENCY STOP / CONTROL POINT

STAGE LIFT POINT LOAD

## LOADING / OPERATION CRITERIA

TOTAL AREA: 365 FT²

ESTIMATED LIFT SELF-WEIGHT (40 PSF): 14,600 LB.

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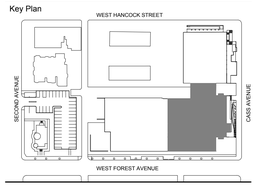
| DETROIT, MI | |


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# ORCHESTRA LIFT PLAN LEVEL ONE - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

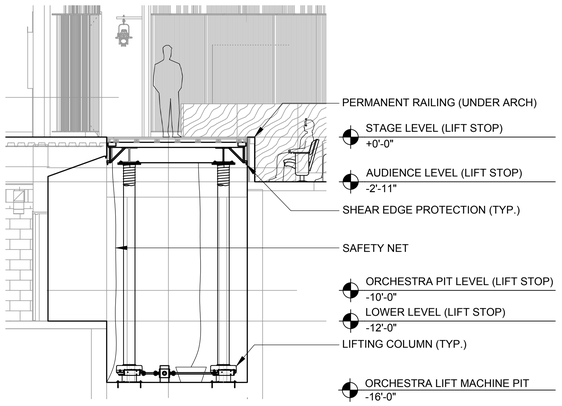
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

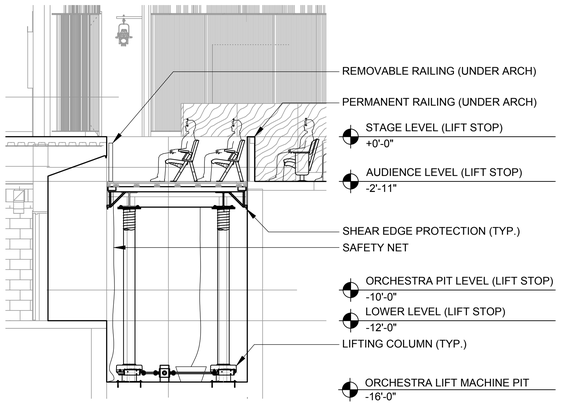
Drawing No:

# TE1.1B

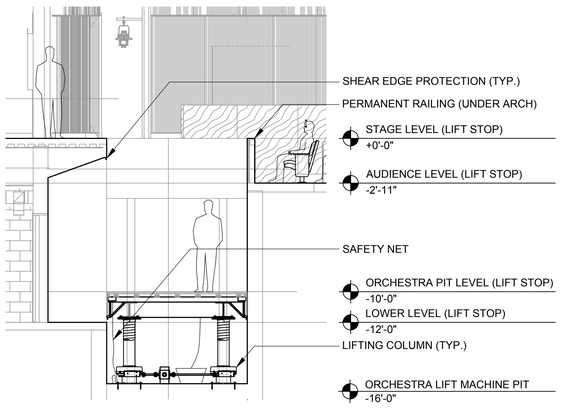
Sheet Size: 30" x 42"
: Template Version



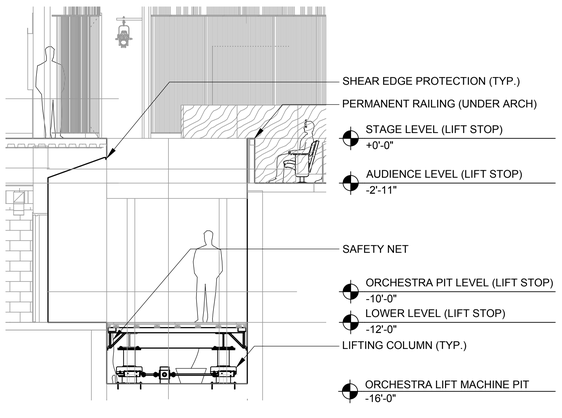

1 ORCHESTRA LIFT CENTERLINE SECTION - STAGE LEVEL
1/4"=1'-0"




2 ORCHESTRA LIFT CENTERLINE SECTION - AUDIENCE LEVEL
1/4"=1'-0"




3 ORCHESTRA LIFT CENTERLINE SECTION- ORCHESTRA PIT LEVEL
1/4"=1'-0"




4 ORCHESTRA LIFT CENTERLINE SECTION- LOWER LEVEL
1/4"=1'-0"

## STAGE LIFT GENERAL NOTES

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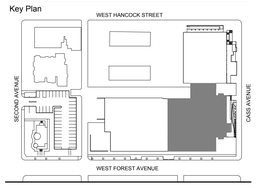
DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## ORCHESTRA LIFT SECTIONS - SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

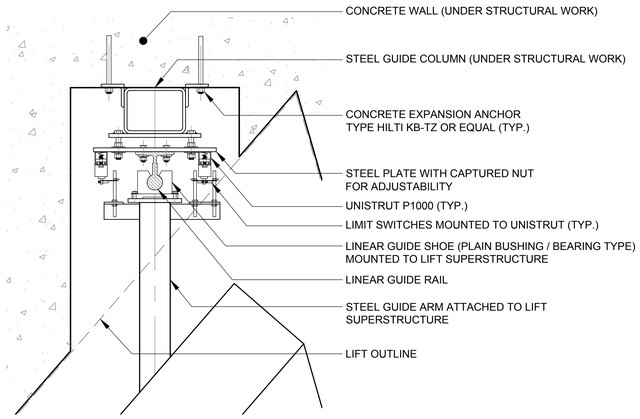
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

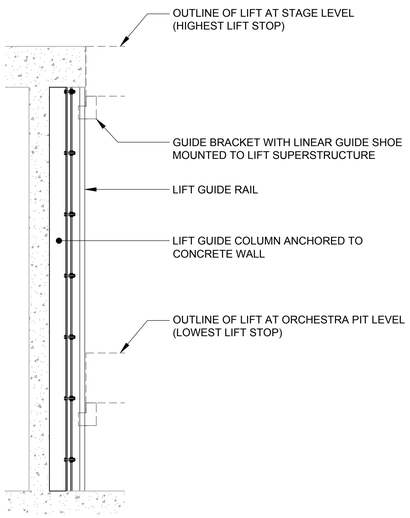
Drawing No:

# TE3.1B

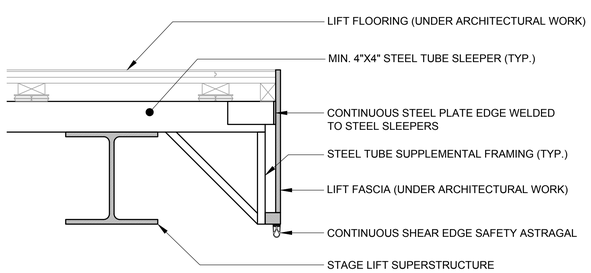
Sheet Size: 30" x 42"
: Template Version



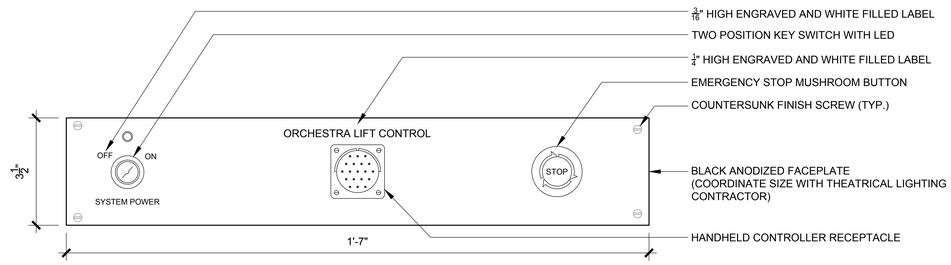

## 1 LIFT GUIDE DETAIL
1-1/2"=1'-0"



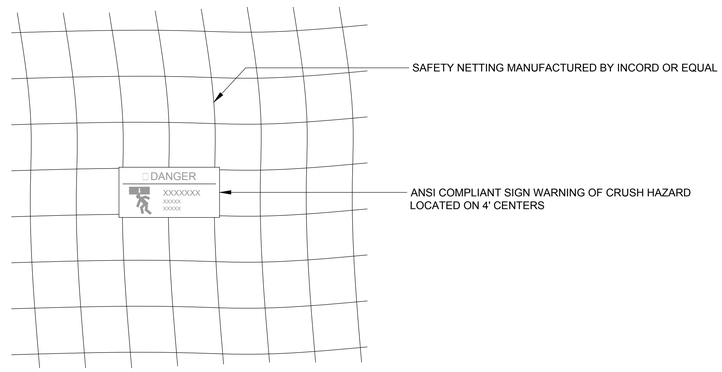

## 2 ORCHESTRA LIFT DETAIL SECTION AT GUIDE COLUMN
1/2"=1'-0"



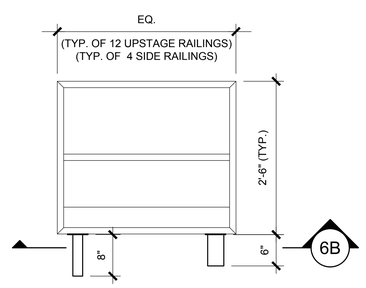

## 3 LIFT EDGE DETAIL
1-1/2"=1'-0"



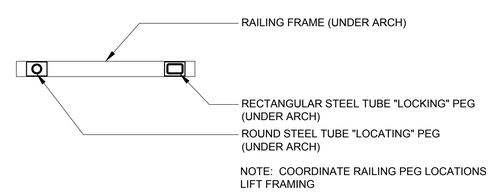

## 4 ORCHESTRA LIFT CONTROL PANEL DETAIL
6"=1'-0"




## 5 LIFT SAFETY NETTING
NOT TO SCALE




DETAIL 6A: ELEVATION




DETAIL 6B: SECTION LOOKING UP

## 6 ORCHESTRA LIFT REMOVABLE RAILING
1"=1'-0"

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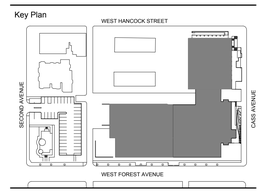
DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
ORCHESTRA LIFT DETAILS

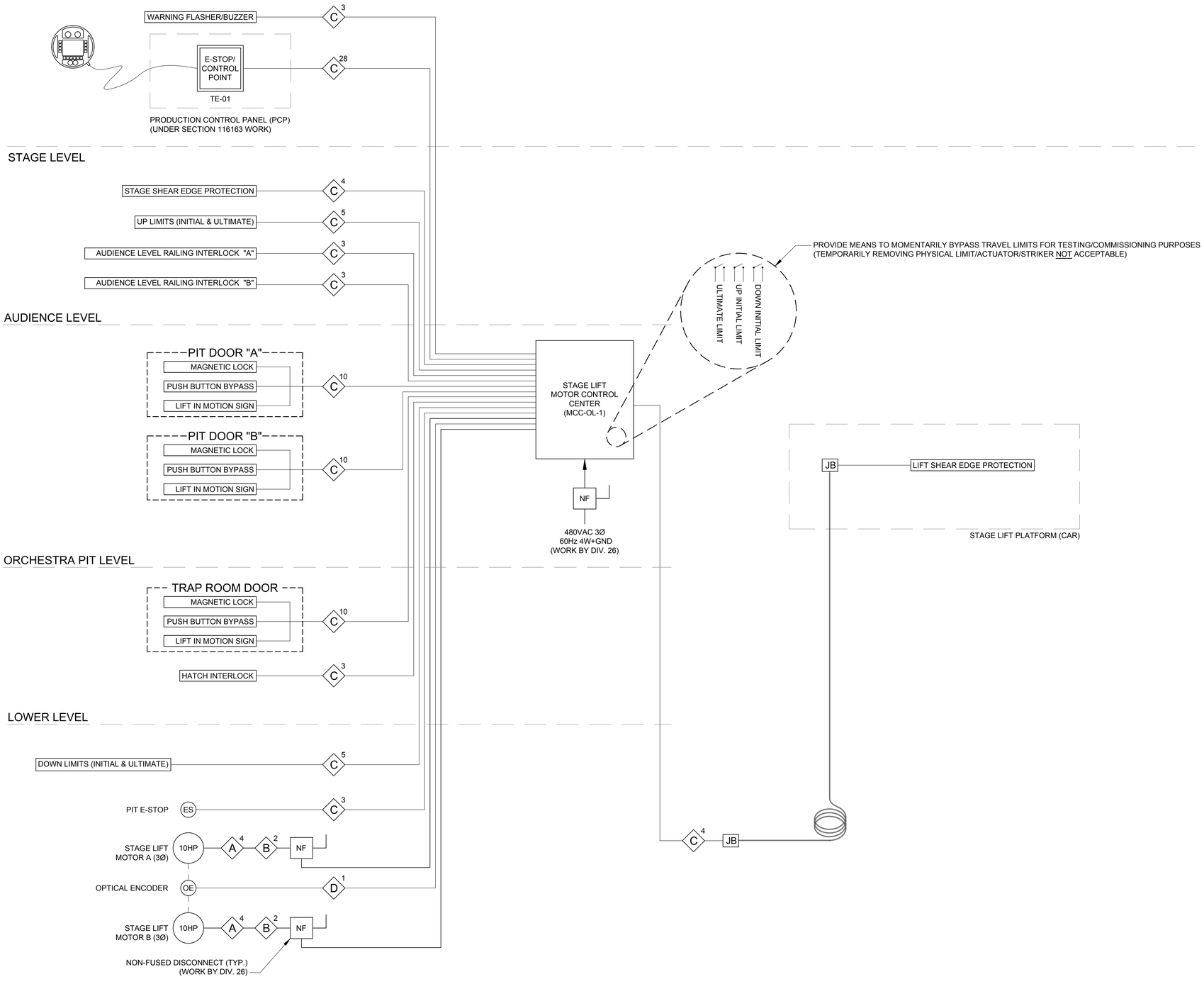
Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TE5.1

Sheet Size: 30" x 42"
: Template Version




1 ORCHESTRA LIFT RISER DIAGRAM
NOT TO SCALE

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4. LIFT CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD.
5. ALL EQUIPMENT BY LIFT CONTRACTOR UNLESS NOTED OTHERWISE.
6. LIFT CONTRACTOR TO VERIFY RIGGING MOTOR SIZES, LOADS, POWER REQUIREMENTS, AND CONTROL WIRE TYPES, SIZES, AND COUNTS.
7. ALL CONDUIT, WIRE, POWER FEEDS, JUNCTION/PULL BOXES, NON-FUSED DISCONNECTS, AND FINAL TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
8. DIMENSIONS ARE PROVIDED FOR REFERENCE ONLY. REFER TO APPLICABLE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CRITICAL DIMENSIONS.
9. THIS DRAWING IS INTENDED TO PROVIDE INFORMATION REGARDING THEATRICAL EQUIPMENT ONLY. REFER TO APPLICABLE ARCHITECTURAL OR ENGINEERING DRAWINGS FOR ARCHITECTURAL AND ENGINEERING INFORMATION RELATING TO THE BUILDING.

## SYMBOL KEY

E-STOP/ CONTROL POINT — STAGE LIFT EMERGENCY STOP / CONTROL POINT

STAGE LIFT POINT LOAD

## LOADING / OPERATION CRITERIA

TOTAL AREA: 365 FT²

ESTIMATED LIFT SELF-WEIGHT (40 PSF): 14,600 LB.

SUSTAINING (STATIC) LOADING CRITERIA: 150 PSF + SELF WT

LIFTING (DYNAMIC) LOADING CRITERIA: 50 PSF + SELF WT

LIFT FLOOR CONCENTRATED LOADING: 250 PSF

TRAVEL: 12 FT. 0 IN. (PLUS OVERTRAVEL)

SPEED: 8 FT. PER MIN.

GUIDES: LINEAR MOTION BEARING BLOCKS

GUIDE COLUMN LOADING: 2500 LBS LATERAL LOAD AT EACH OF 2 GUIDE COLUMNS (OR CODE-REQUIRED SEISMIC DESIGN LOADS). LOADS MAY OCCUR IN ANY LATERAL DIRECTION AT ANY POINT ALONG THE TRAVEL OF THE LIFT.

## WIRING KEY

INDICATES QUANTITY

WIRE TYPE

A — 12 AWG CU STRANDED

B — 14 AWG CU STRANDED

C — 16 AWG CU STRANDED

D — BELDEN 8777

NOTES:

RISER SHOWN FOR DESIGN INTENT ONLY. FINAL WIRE TYPES, ROUTING, AND QUANTITIES TO BE VERIFIED BY LIFT CONTRACTOR.

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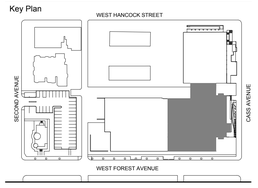
WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
ORCHESTRA LIFT RISER

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

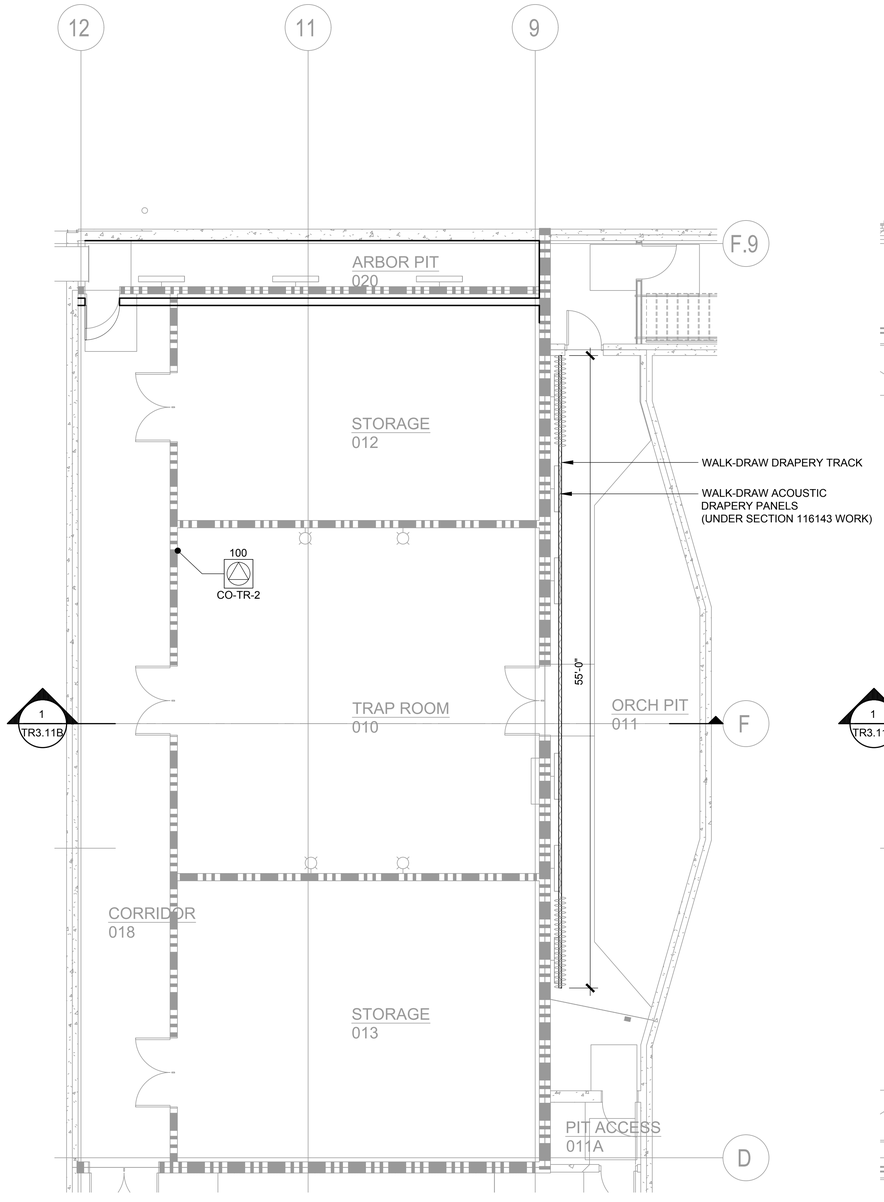
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

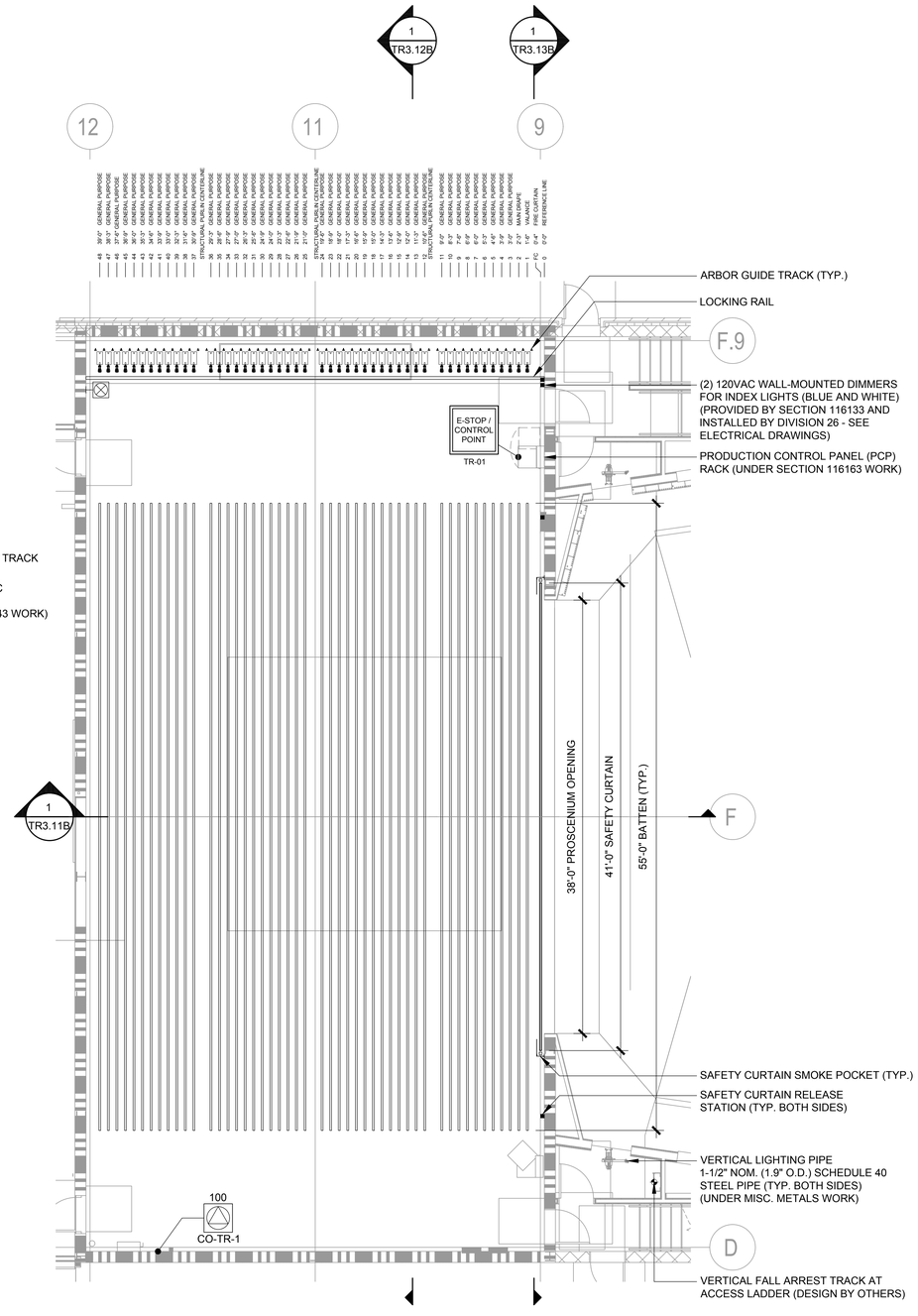
Drawing No:

TE6.1

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING PLAN LOWER LEVEL - PROSCENIUM THEATRE
3/16"=1'-0"




2 THEATRICAL RIGGING PLAN LEVEL ONE - PROSCENIUM THEATRE
3/16"=1'-0"

## GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
4. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
5. FLEET ANGLES SHALL NOT EXCEED 1.5°.
6. THEATRICAL RIGGING SYSTEM SHOP DRAWINGS MUST BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.
7. THEATRICAL RIGGING CONTRACTOR TO VERIFY RIGGING MOTOR SIZES, LOADS, POWER REQUIREMENTS, AND CONTROL WIRE TYPES, SIZES, AND COUNTS.
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## SYMBOL KEY

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| E-STOP/ CONTROL POINT | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP / CONTROL POINT |
| E-STOP | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP |
| | THEATRICAL RIGGING POINT LOAD / LIFT LINE |
| | CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK) |
| 100 CO-TR-X | 120/208V COMPANY SWITCH (UNDER DIVISION 26 WORK) |


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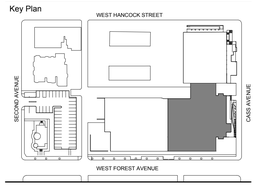
DETROIT, MI


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING PLAN LL / LEVEL ONE - PROSCENIUM THEATRE SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

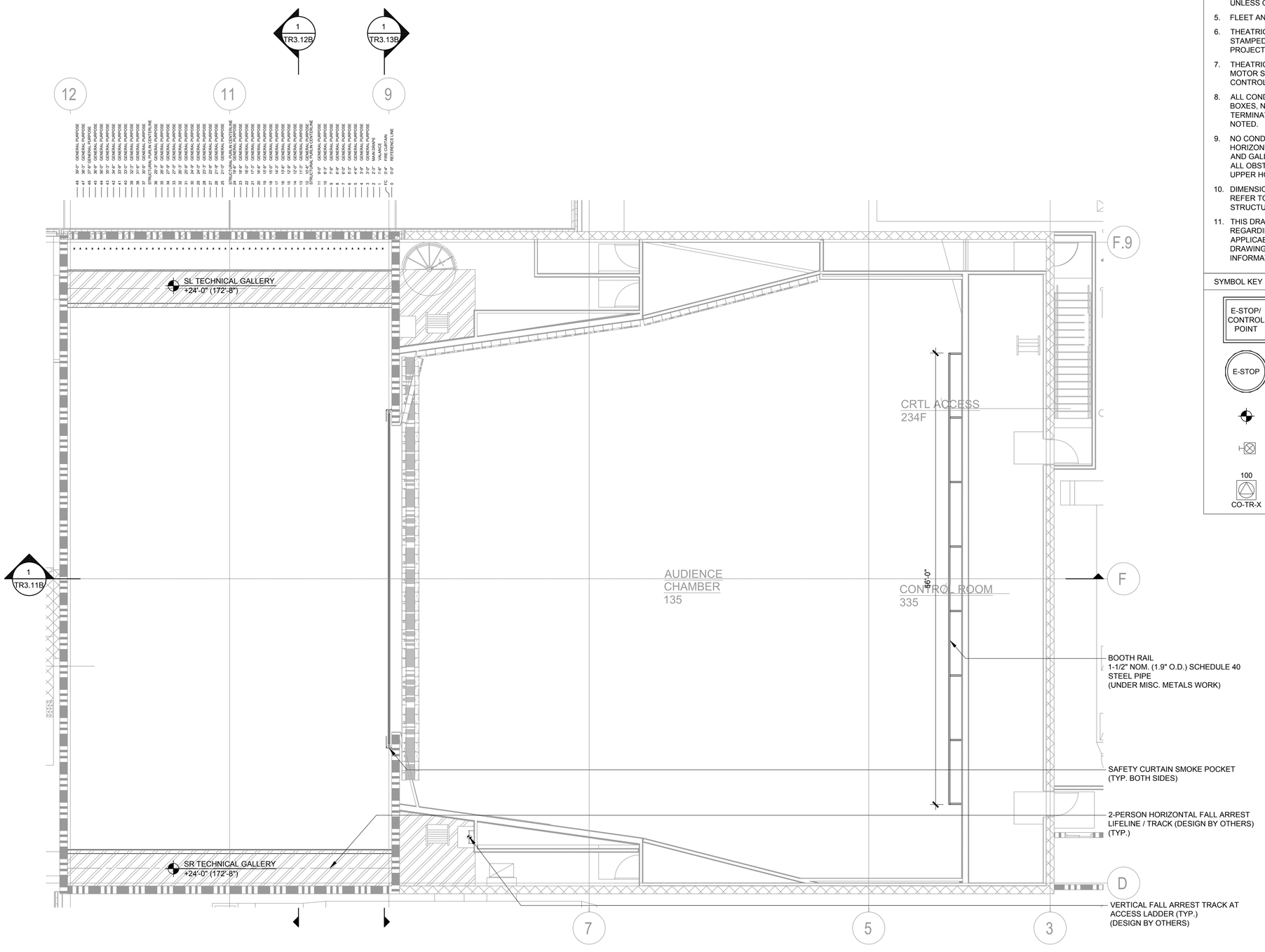
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TR1.11B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING PLAN LEVEL TWO - PROSCENIUM THEATRE
3/16"=1'-0"

## GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
4. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
5. FLEET ANGLES SHALL NOT EXCEED 1.5°.
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| E-STOP/ CONTROL POINT | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP / CONTROL POINT |
| E-STOP | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP |
| | THEATRICAL RIGGING POINT LOAD / LIFT LINE |
| | CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK) |
| 100 CO-TR-X | 120/208V COMPANY SWITCH (UNDER DIVISION 26 WORK) |

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WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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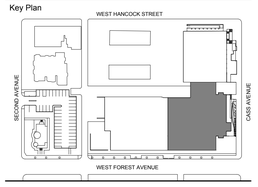
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING PLAN LEVEL TWO - PROSCENIUM THEATRE SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

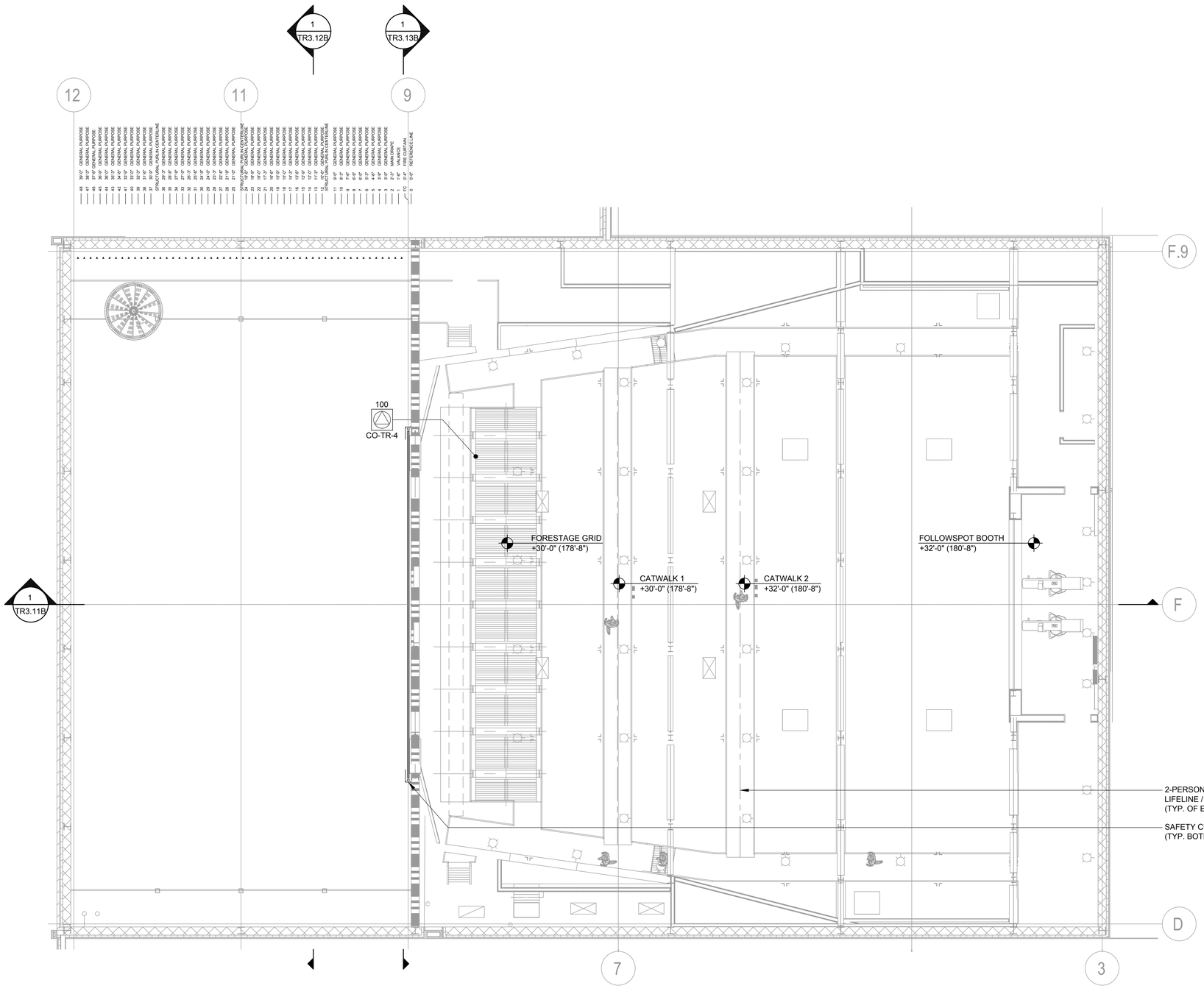
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TR1.12B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING PLAN TECH LEVEL - PROSCENIUM THEATRE
3/16"=1'-0"

## GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
4. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
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## SYMBOL KEY

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| E-STOP | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP |
| | THEATRICAL RIGGING POINT LOAD / LIFT LINE |
| | CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK) |
| 100 CO-TR-X | 120/208V COMPANY SWITCH (UNDER DIVISION 26 WORK) |

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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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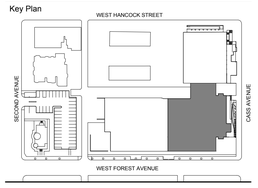
DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING PLAN TECH LEVEL - PROSCENIUM THEATRE SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

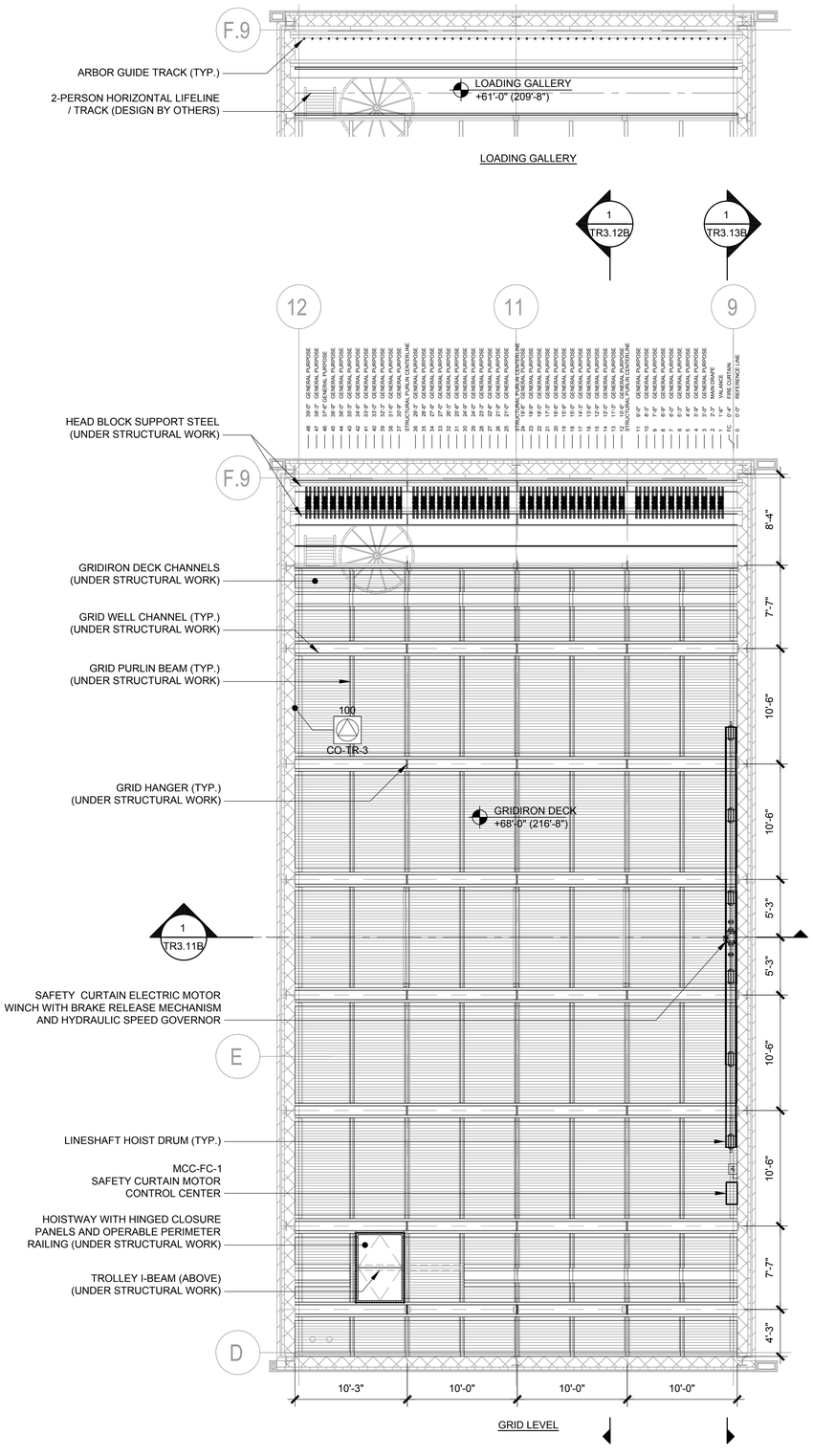
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

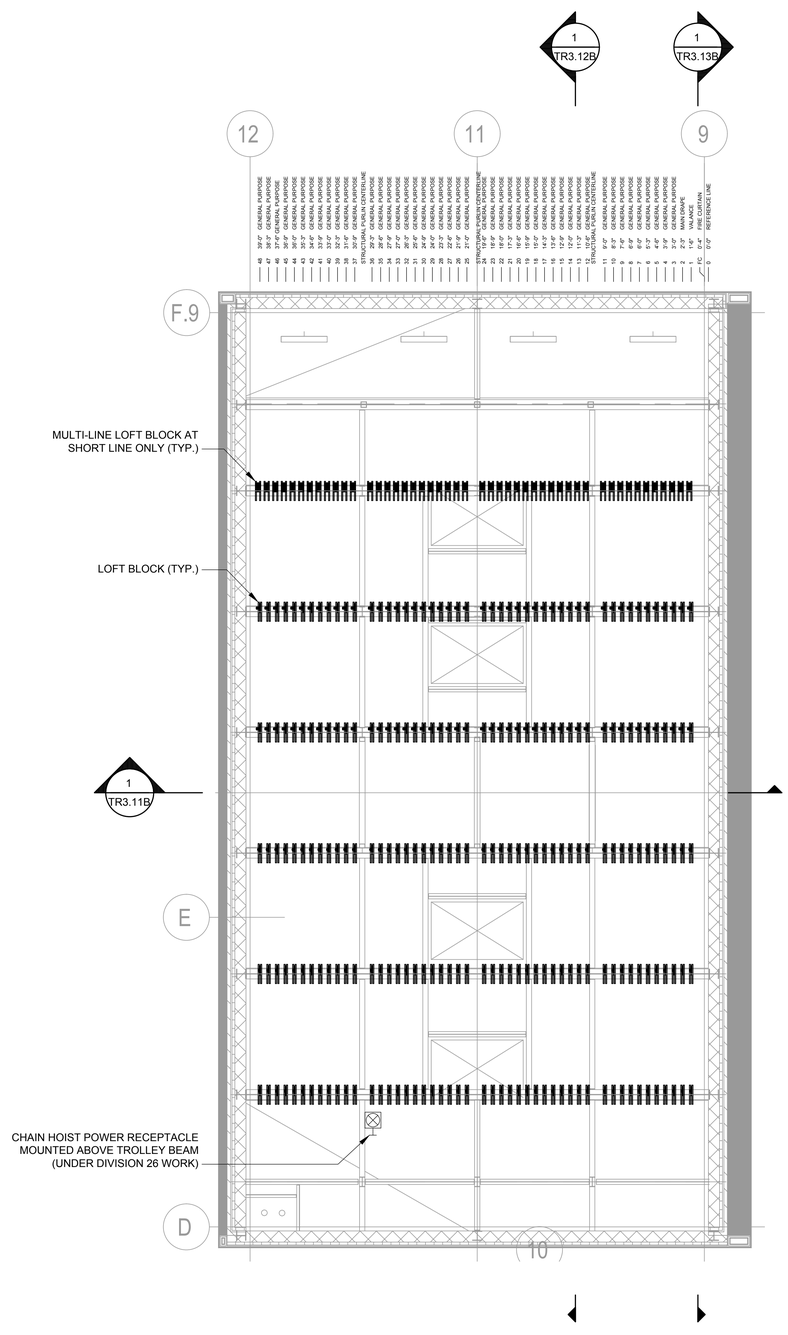
Drawing No:

TR1.13B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING PLAN GRID LEVEL - PROSCENIUM THEATRE
3/16"=1'-0"




2 THEATRICAL RIGGING RCP GRID LEVEL - PROSCENIUM THEATRE
3/16"=1'-0"

## GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
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| | THEATRICAL RIGGING POINT LOAD / LIFT LINE |
| | CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK) |
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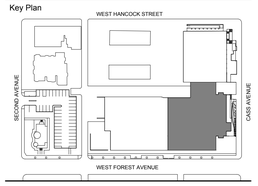
DETROIT, MI


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING GRID LEVEL - PROSCENIUM THEATRE SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

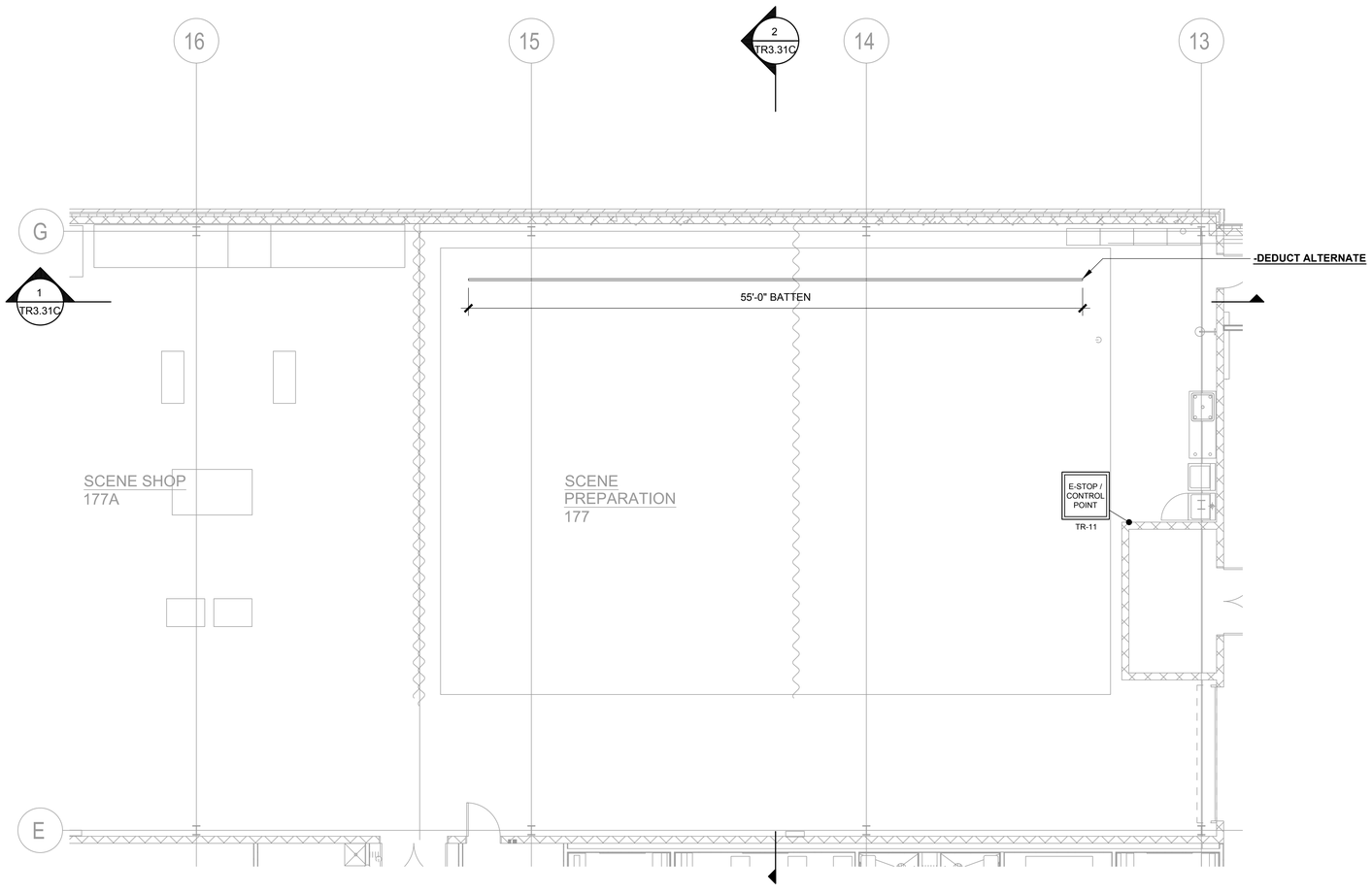
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TR1.14B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING PLAN - LEVEL ONE - SECTOR C
3/16"=1'-0"

## GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
4. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
5. FLEET ANGLES SHALL NOT EXCEED 1.5°.
6. THEATRICAL RIGGING SYSTEM SHOP DRAWINGS MUST BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.
7. THEATRICAL RIGGING CONTRACTOR TO VERIFY RIGGING MOTOR SIZES, LOADS, POWER REQUIREMENTS, AND CONTROL WIRE TYPES, SIZES, AND COUNTS.
8. ALL CONDUIT, WIRE, POWER FEEDS, JUNCTION/PULL BOXES, NON-FUSED DISCONNECTS, AND FINAL TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
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## SYMBOL KEY

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| E-STOP/ CONTROL POINT | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP / CONTROL POINT |
| E-STOP | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP |
| | THEATRICAL RIGGING POINT LOAD / LIFT LINE |
| | CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK) |
| 100 / CO-TR-X | 120/208V COMPANY SWITCH (UNDER DIVISION 26 WORK) |

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architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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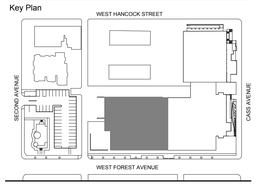
DETROIT, MI


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING PLAN LEVEL ONE - SECTOR C

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

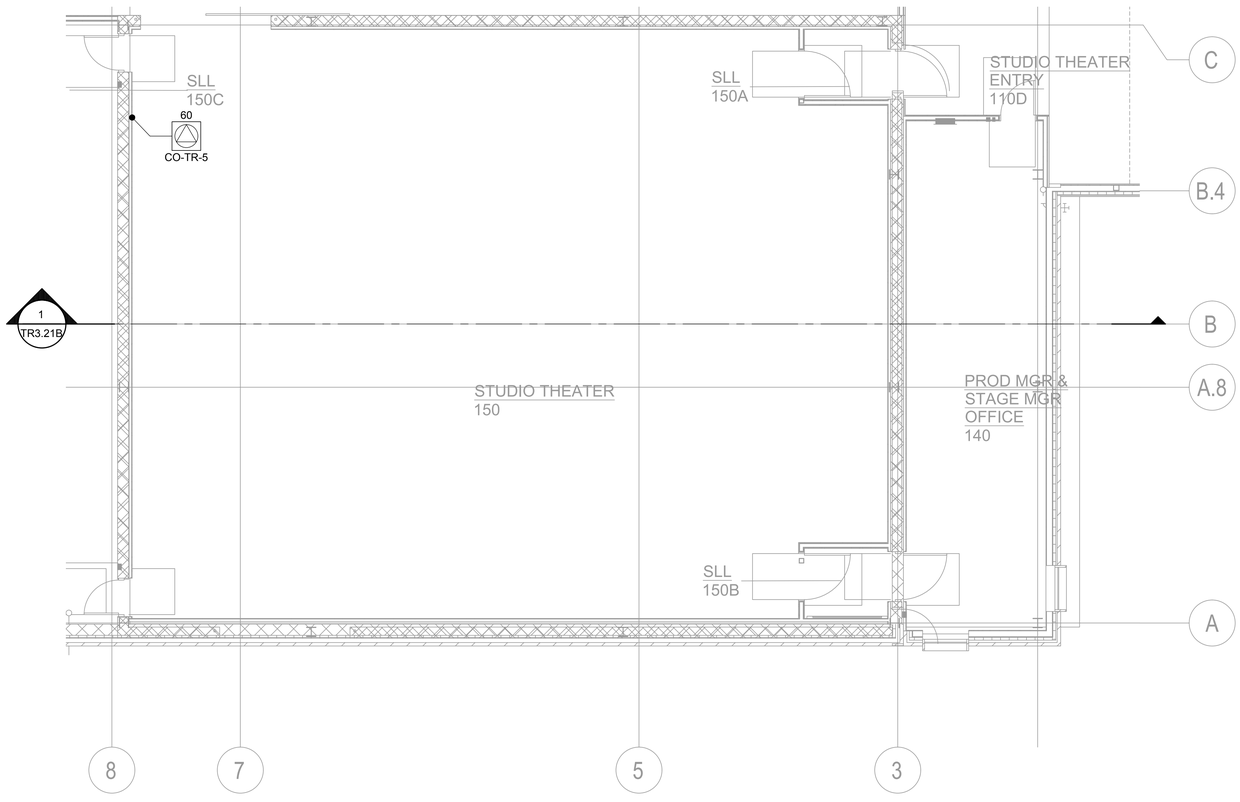
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TR1.1C

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING PLAN LEVEL ONE - STUDIO THEATRE
3/16"=1'-0"

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DETROIT, MI

Key Plan

| | |
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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING PLAN LEVEL ONE - STUDIO THEATRE SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

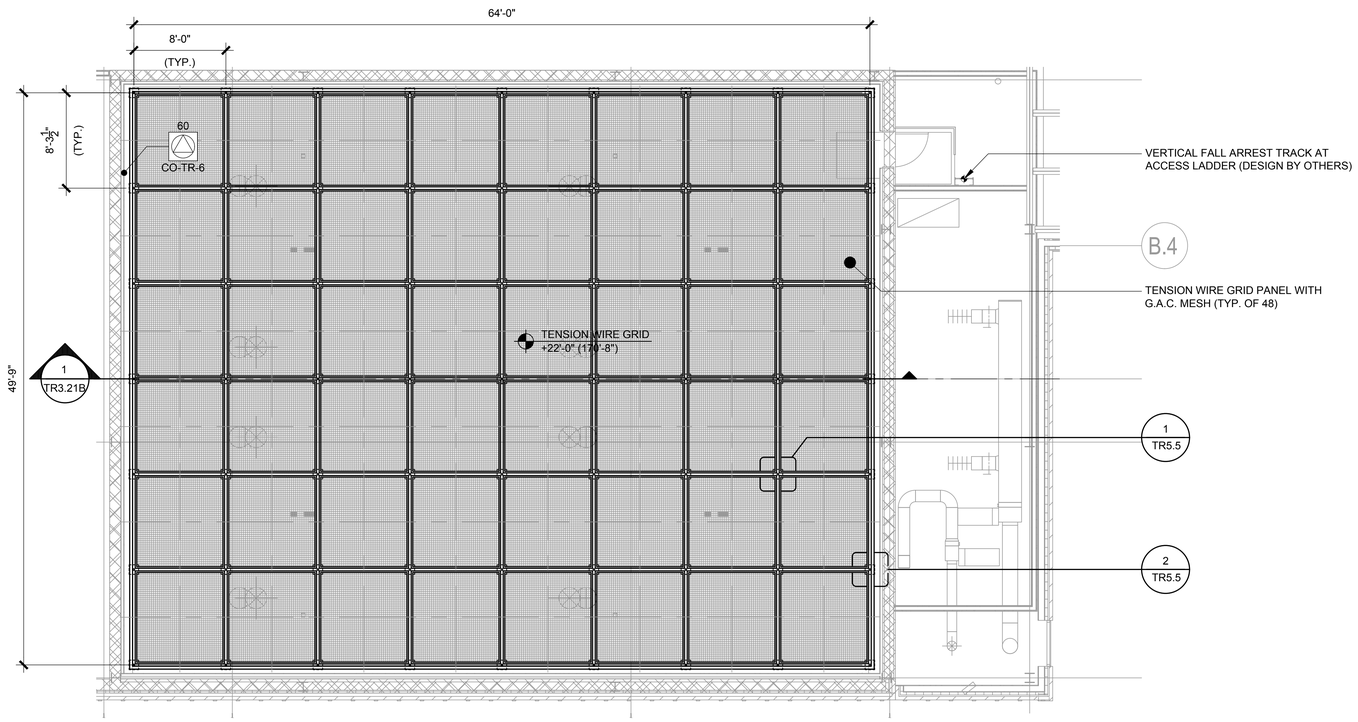
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

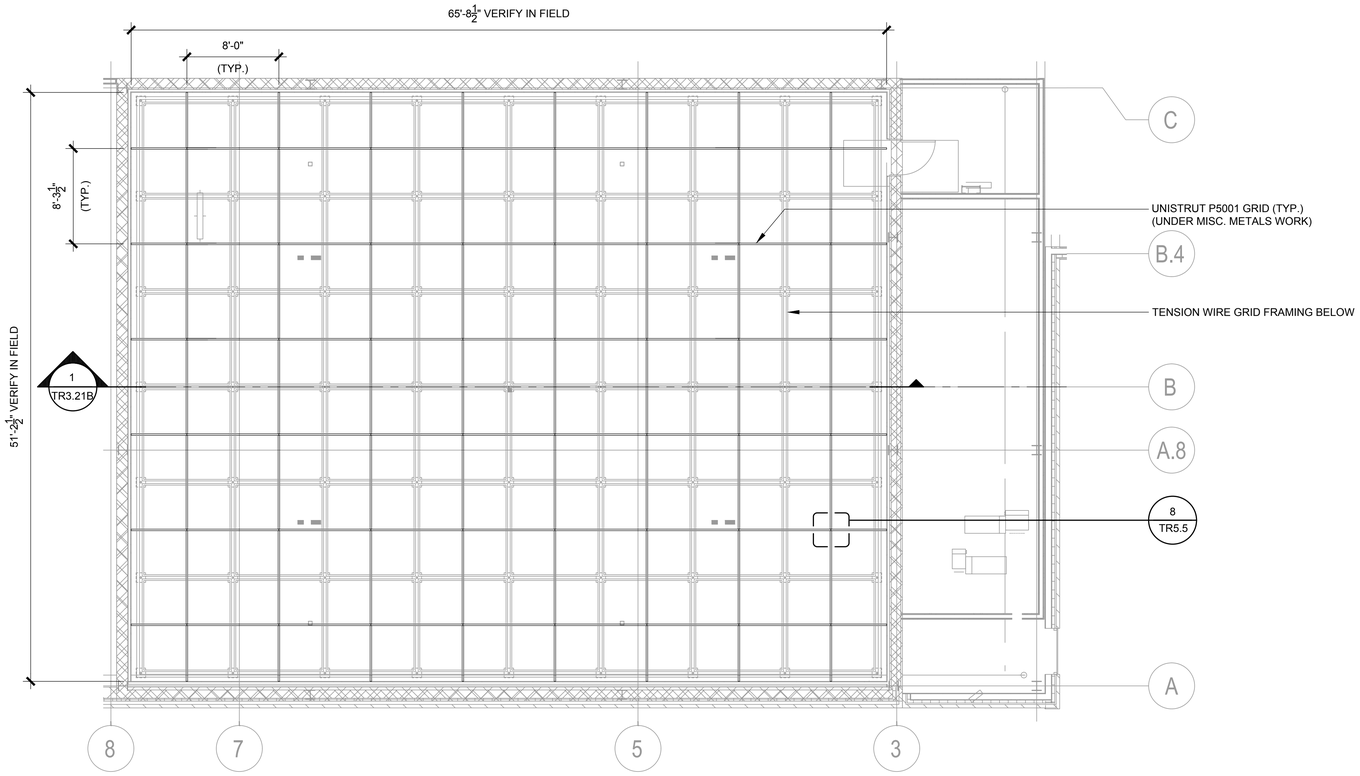
Signature:

Drawing No:
TR1.21B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING PLAN - TENSION WIRE GRID - STUDIO THEATRE
3/16"=1'-0"




2 THEATRICAL RIGGING RCP - TENSION WIRE GRID - STUDIO THEATRE
3/16"=1'-0"

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DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING LEVEL TWO - STUDIO THEATRE SECTOR B

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TR1.22B

Sheet Size: 30" x 42"
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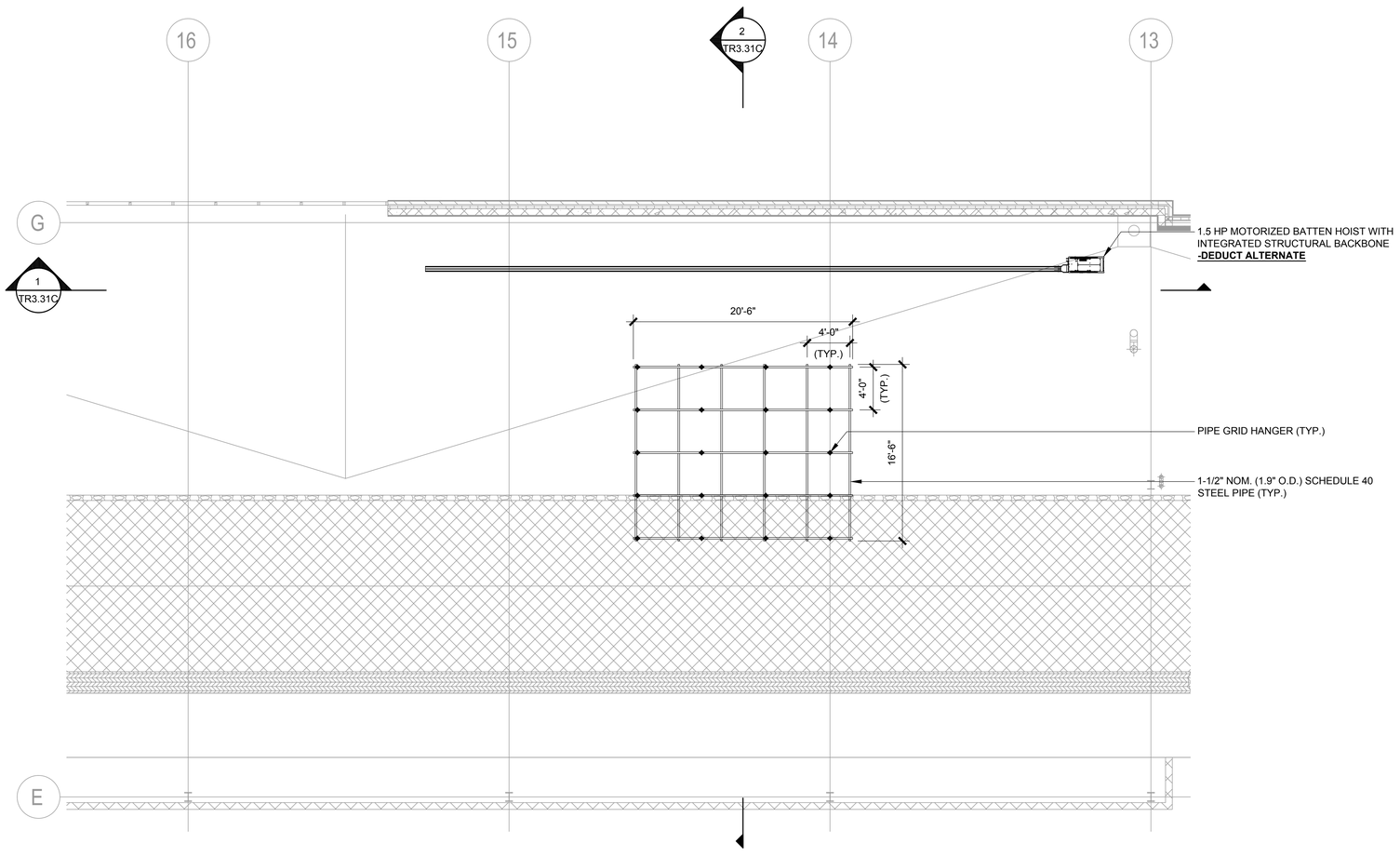


1 THEATRICAL RIGGING RCP - LEVEL TWO - SECTOR C
3/16"=1'-0"

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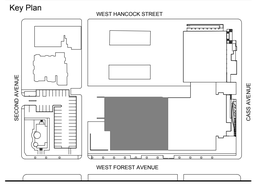
DETROIT, MI

Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING RCP LEVEL TWO - SECTOR C

Project Number: 3995-001-00

Drawn By: APF

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Drawing No:

TR2.2C

Sheet Size: 30" x 42"
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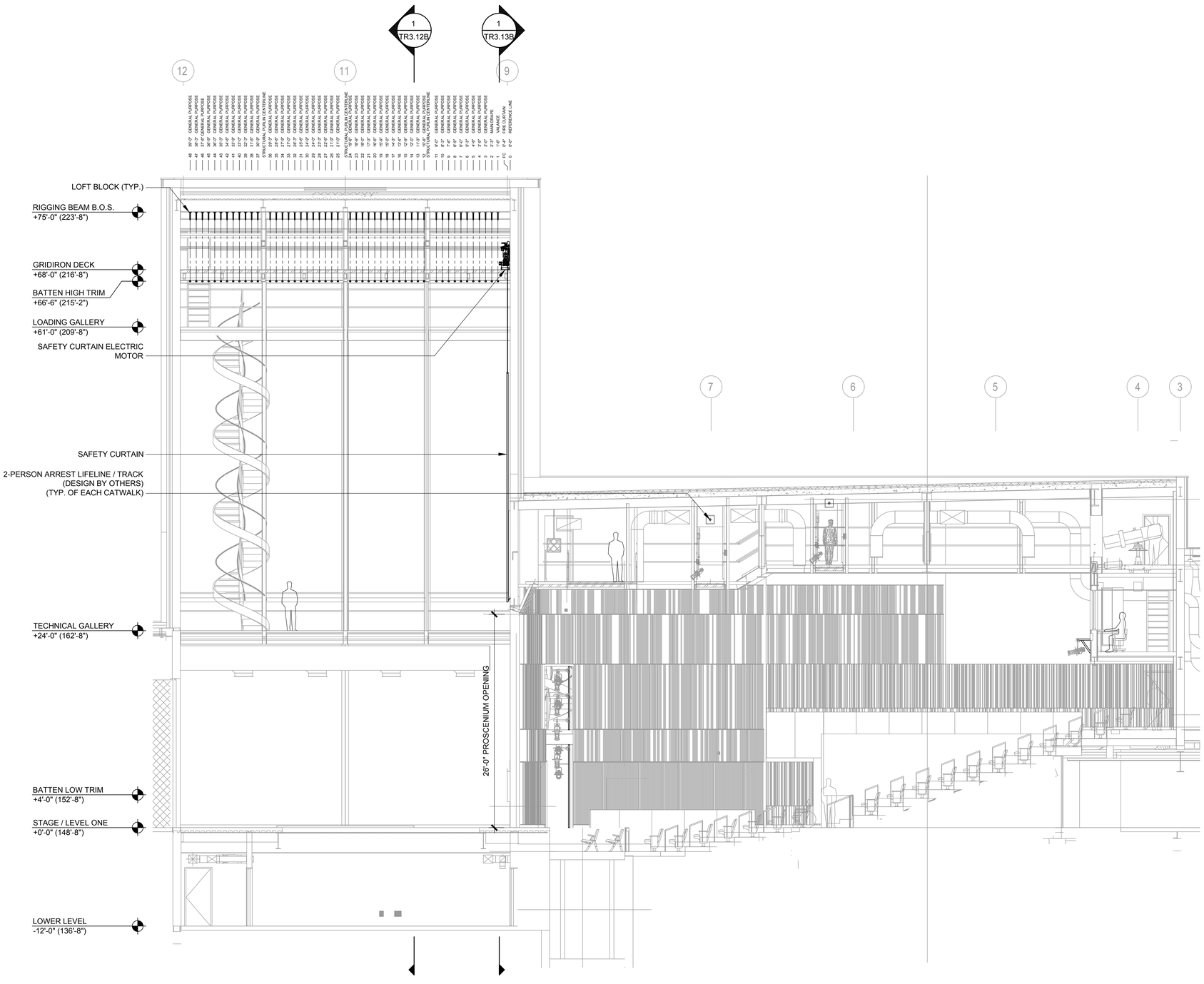


1 THEATRICAL RIGGING CENTERLINE SECTION - PROSCENIUM THEATRE
3/16"=1'-0"

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DETROIT, MI


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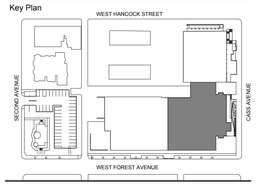


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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL RIGGING CENTERLINE SECTION PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

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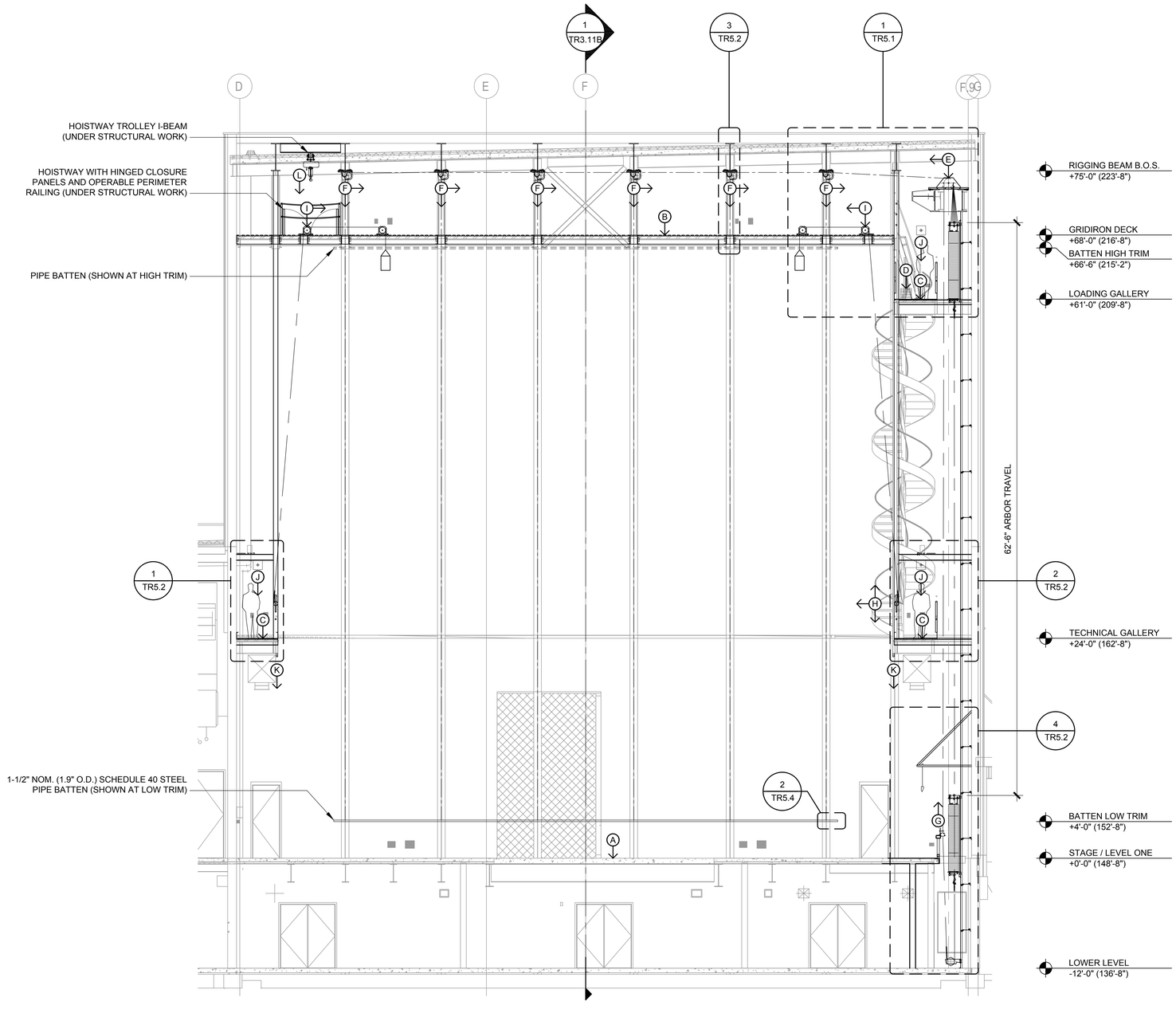
# TR3.11B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING TRANSVERSE SECTION LOOKING UPSTAGE - TYPICAL LINESET - PROSCENIUM THEATRE
3/16"=1'-0"

## GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
4. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
5. FLEET ANGLES SHALL NOT EXCEED 1.5°.
6. THEATRICAL RIGGING SYSTEM SHOP DRAWINGS MUST BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.
7. THEATRICAL RIGGING CONTRACTOR TO VERIFY RIGGING MOTOR SIZES, LOADS, POWER REQUIREMENTS, AND CONTROL WIRE TYPES, SIZES, AND COUNTS.
8. ALL CONDUIT, WIRE, POWER FEEDS, JUNCTION/PULL BOXES, NON-FUSED DISCONNECTS, AND FINAL TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
9. NO CONDUIT OR CONDUIT SUPPORTS PERMITTED ON HORIZONTAL PIPES OR CATWALK RAILINGS, ALL CATWALK AND GALLERY RAILINGS TO BE COMPLETELY CLEAR OF ALL OBSTRUCTIONS FROM TOP OF KICK PLATE TO TOP OF UPPER HORIZONTAL RAILING.
10. DIMENSIONS ARE PROVIDED FOR REFERENCE ONLY. REFER TO APPLICABLE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CRITICAL DIMENSIONS.
11. THIS DRAWING IS INTENDED TO PROVIDE INFORMATION REGARDING THEATRICAL EQUIPMENT ONLY. REFER TO APPLICABLE ARCHITECTURAL OR ENGINEERING DRAWINGS FOR ARCHITECTURAL AND ENGINEERING INFORMATION RELATING TO THE BUILDING.

## SYMBOL KEY

| | |
|---|---|
| E-STOP/ CONTROL POINT | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP / CONTROL POINT |
| E-STOP | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP |
| | THEATRICAL RIGGING POINT LOAD / LIFT LINE |
| | CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK) |
| 100 / CO-TR-X | 120/208V COMPANY SWITCH (UNDER DIVISION 26 WORK) |

## LOADING CRITERIA

- (A) = 150 PSF STAGE FLOOR CAPACITY WITH CONCENTRATED LOADS OF 250 PSF (POSSIBLE IN DOWNWARD AND UPWARD DIRECTION)
- (B) = 150 PSF GRIDIRON DECK CAPACITY. 2000□ CONCENTRATED LOADS NO CLOSER THAN 6'-0".
- (C) = 150 PSF UNIFORM LOAD AT GALLERY FLOORS.
- (D) = 1400 PLF AT LOADING GALLERY FLOOR FOR COUNTERWEIGHT STORAGE. COUNTERWEIGHTS CONCENTRATED TOWARDS STAGE SIDE OF GALLERY.
- (E) = 1500 PLF ON HEAD BLOCK BEAM DUE TO HEAD BLOCKS (INCLUDES VERTICAL AND HORIZONTAL VECTORS)
- (F) = 500 PLF ON RIGGING / ROOF BEAMS DUE TO LOFT BLOCKS (INCLUDES VERTICAL AND HORIZONTAL VECTORS)
- (G) = 350 PLF DISTRIBUTED LOAD AT LOCKING RAIL (POSSIBLE IN UPWARD AND DOWNWARD DIRECTION). 1500□ MAXIMUM POINT LOAD.
- (H) = 350 PLF AT ROPE LINE BELAYING PIN RAIL.
- (I) = 350 PLF AT ROPE LINE HEAD BLOCK WELLS.
- (J) = 2 TECHNICIAN LOAD AT FALL PROTECTION ANCHORAGE POINTS (DESIGN BY OTHERS)
- (K) = 30 PLF EQUIPMENT LOAD AT UNDER GALLERY HORIZONTAL PIPES.
- (L) = 2200□ POINT LOAD ANYWHERE ALONG HOISTWAY TROLLEY BEAM.

## NOTES:

1. TOTAL RIGGING LOAD AT GRIDIRON DECK AND ROOF/RIGGING BEAMS NOT TO EXCEED 130,000□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| | |
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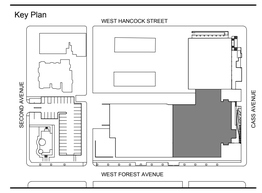
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# THEATRICAL RIGGING TRANSVERSE SECTION TYPICAL LINESET PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

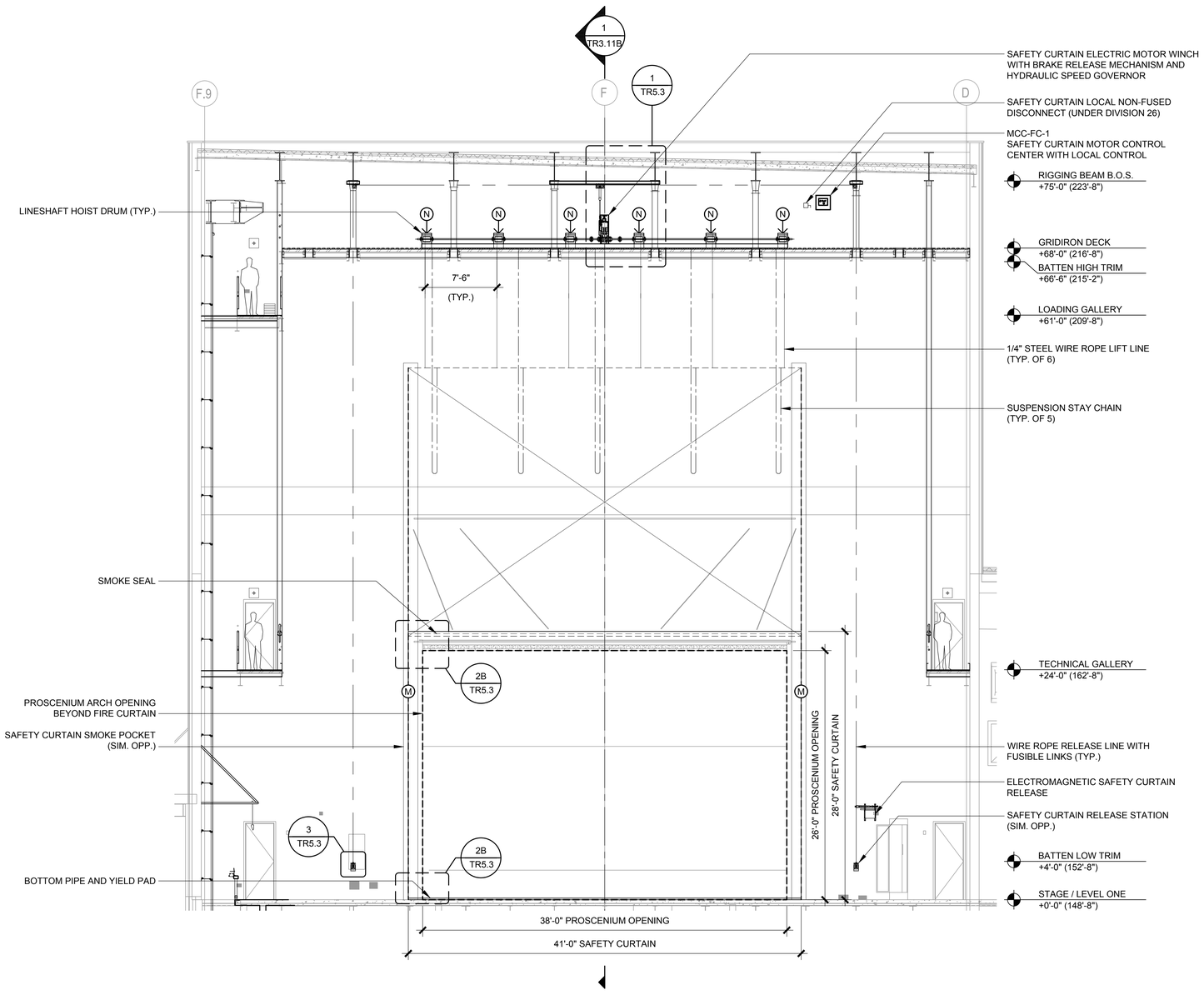
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

# TR3.12B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING TRANSVERSE SECTION LOOKING DOWNSTAGE - SAFETY CURTAIN - PROSCENIUM THEATRE
3/16"=1'-0"

## GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
4. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
5. FLEET ANGLES SHALL NOT EXCEED 1.5°.
6. THEATRICAL RIGGING SYSTEM SHOP DRAWINGS MUST BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.
7. THEATRICAL RIGGING CONTRACTOR TO VERIFY RIGGING MOTOR SIZES, LOADS, POWER REQUIREMENTS, AND CONTROL WIRE TYPES, SIZES, AND COUNTS.
8. ALL CONDUIT, WIRE, POWER FEEDS, JUNCTION/PULL BOXES, NON-FUSED DISCONNECTS, AND FINAL TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
9. NO CONDUIT OR CONDUIT SUPPORTS PERMITTED ON HORIZONTAL PIPES OR CATWALK RAILINGS, ALL CATWALK AND GALLERY RAILINGS TO BE COMPLETELY CLEAR OF ALL OBSTRUCTIONS FROM TOP OF KICK PLATE TO TOP OF UPPER HORIZONTAL RAILING.
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## SYMBOL KEY

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|---|---|
| E-STOP/ CONTROL POINT | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP / CONTROL POINT |
| E-STOP | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP |
| | THEATRICAL RIGGING POINT LOAD / LIFT LINE |
| | CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK) |
| 100 CO-TR-X | 120/208V COMPANY SWITCH (UNDER DIVISION 26 WORK) |

## LOADING CRITERIA

(M) = 41 PLF FULL-OUT FORCE AT SAFETY CURTAIN VERTICAL GUIDE IN SMOKE POCKET. RESISTANCE TO PULL-OUT FORCE IS REQUIRED FOR POTENTIAL PRESSURE DIFFERENTIAL BETWEEN AUDITORIUM AND FLY TOWER DURING A FIRE EVENT.

(N) = 500□ POINT LOADS AT DOWNSTAGE EDGE OF GRID NEAR PROSCENIUM WALL DUE TO FIRE CURTAIN.

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| | |
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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
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| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
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| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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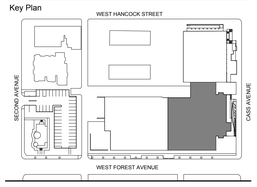
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING TRANSVERSE SECTION SAFETY CURTAIN PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

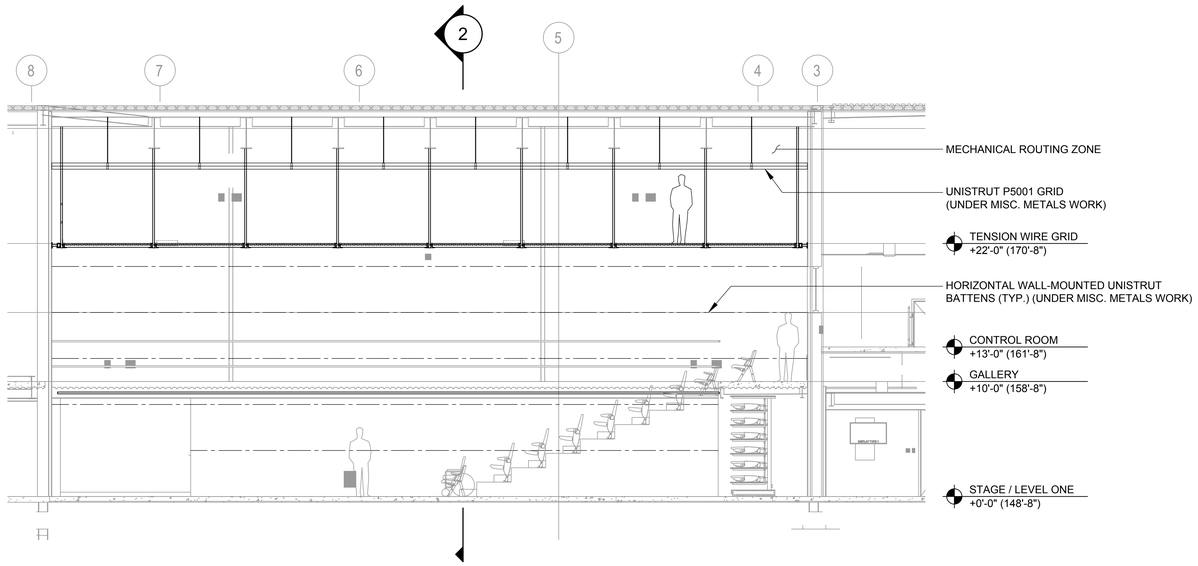
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

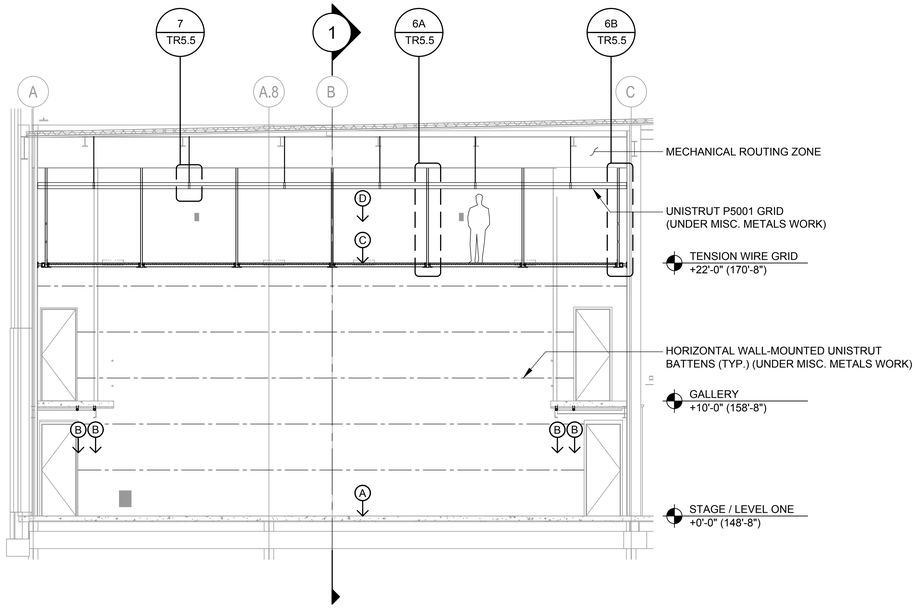
Drawing No:

TR3.13B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING CENTERLINE SECTION - STUDIO THEATRE
3/16"=1'-0"




2 THEATRICAL RIGGING TRANSVERSE SECTION LOOKING UPSTAGE - STUDIO THEATRE
3/16"=1'-0"

## GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
4. ALL EXPOSED ELEMENTS TO BE FINISHED FLAT BLACK UNLESS OTHERWISE NOTED.
5. FLEET ANGLES SHALL NOT EXCEED 1.5°.
6. THEATRICAL RIGGING SYSTEM SHOP DRAWINGS MUST BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.
7. THEATRICAL RIGGING CONTRACTOR TO VERIFY RIGGING MOTOR SIZES, LOADS, POWER REQUIREMENTS, AND CONTROL WIRE TYPES, SIZES, AND COUNTS.
8. ALL CONDUIT, WIRE, POWER FEEDS, JUNCTION/PULL BOXES, NON-FUSED DISCONNECTS, AND FINAL TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
9. NO CONDUIT OR CONDUIT SUPPORTS PERMITTED ON HORIZONTAL PIPES OR CATWALK RAILINGS, ALL CATWALK AND GALLERY RAILINGS TO BE COMPLETELY CLEAR OF ALL OBSTRUCTIONS FROM TOP OF KICK PLATE TO TOP OF UPPER HORIZONTAL RAILING.
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## SYMBOL KEY

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| E-STOP/ CONTROL POINT | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP / CONTROL POINT |
| E-STOP | AUTOMATED THEATRICAL RIGGING EMERGENCY STOP |
| | THEATRICAL RIGGING POINT LOAD / LIFT LINE |
| | CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK) |
| 100 CO-TR-X | 120/208V COMPANY SWITCH (UNDER DIVISION 26 WORK) |

## LOADING CRITERIA

(A) = 150 PSF STAGE FLOOR CAPACITY WITH CONCENTRATED LOADS OF 250 PSF (POSSIBLE IN DOWNWARD AND UPWARD DIRECTION)

(B) = 30 PLF EQUIPMENT LOAD AT UNDER GALLERY HORIZONTAL PIPES.

(C) = 300□ SELF-WEIGHT PER TENSION WIRE GRID PANEL
20 PSF LIVE LOAD AT TENSION WIRE GRID
450□ LIVE LOAD AT GRID HANGERS, IN ADDITION TO TENSION WIRE GRID LIVE LOAD AND SELF-WEIGHT

(D) = 50 PLF EQUIPMENT LOAD AT UNISTRUT GRID.

NOTES:

1. TOTAL RIGGING LOAD ON ROOF / RIGGING BEAMS NOT TO EXCEED 10 TONS.

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL RIGGING SECTIONS STUDIO THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

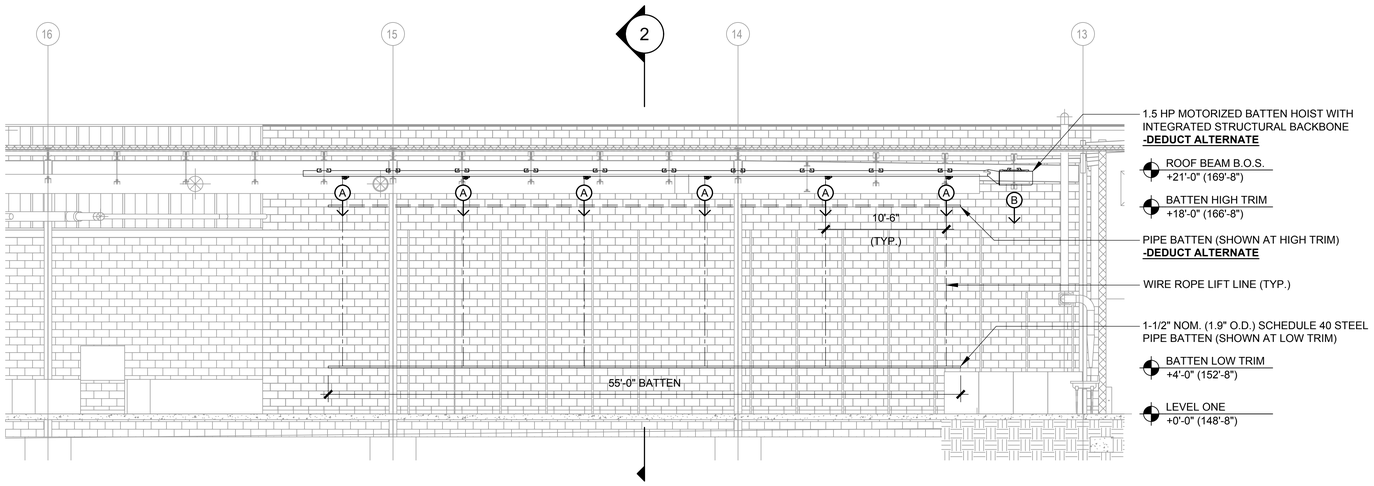
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

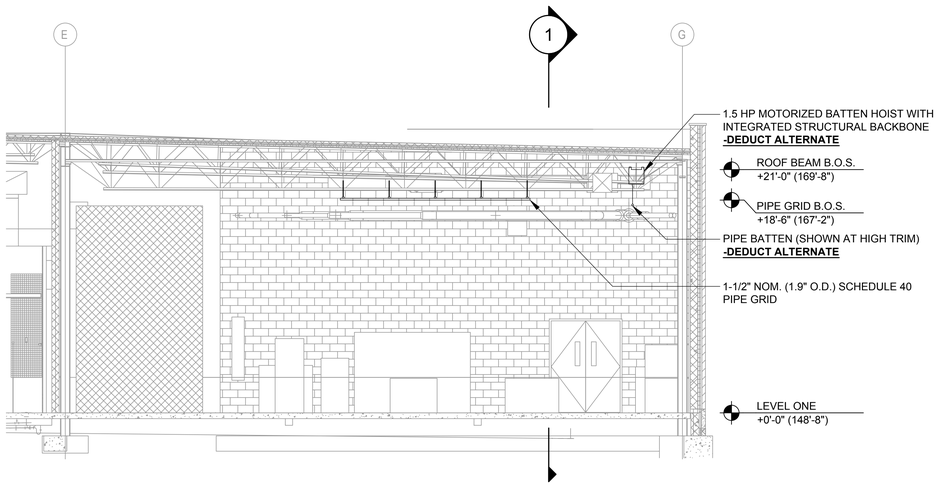
Drawing No:

# TR3.21B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL RIGGING LONGITUDINAL SECTION AT LINESET - PAINT SHOP
3/16"=1'-0"




1 THEATRICAL RIGGING TRANSVERSE SECTION - PAINT SHOP
3/16"=1'-0"

GENERAL NOTES

1. VERIFY DIMENSIONS AND CONDITIONS IN FIELD BEFORE FABRICATION.
2. EQUIPMENT AND WORK SHOWN ON THIS DRAWING UNDER WORK OF 116133 UNLESS OTHERWISE NOTED.
3. ALL FASTENERS TO HAVE LOCKWASHERS OR OTHER APPROVED SELF-LOCKING HARDWARE.
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6. THEATRICAL RIGGING SYSTEM SHOP DRAWINGS MUST BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.
7. THEATRICAL RIGGING CONTRACTOR TO VERIFY RIGGING MOTOR SIZES, LOADS, POWER REQUIREMENTS, AND CONTROL WIRE TYPES, SIZES, AND COUNTS.
8. ALL CONDUIT, WIRE, POWER FEEDS, JUNCTION/PULL BOXES, NON-FUSED DISCONNECTS, AND FINAL TERMINATIONS BY DIVISION 26 UNLESS OTHERWISE NOTED.
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SYMBOL KEY

E-STOP/ CONTROL POINT — AUTOMATED THEATRICAL RIGGING EMERGENCY STOP / CONTROL POINT

E-STOP — AUTOMATED THEATRICAL RIGGING EMERGENCY STOP

THEATRICAL RIGGING POINT LOAD / LIFT LINE

CHAIN HOIST POWER RECEPTACLE NEMA L21-30 (5-WIRE, 30A 208V 3-PHASE) (UNDER DIVISION 26 WORK)

100 / CO-TR-X — 120/208V COMPANY SWITCH (UNDER DIVISION 26 WORK)

LOADING CRITERIA

(A) = 500 POUND POINT LOAD AT LOFT BLOCKS. SUM OF LOADS WILL NOT EXCEED 1,500 LBS PER MOTORIZED BATTEN. (DOWNWARD VECTOR)

(B) = 650 POUNDS ON HOIST MOUNTING BEAM DUE TO HOIST SELF-WEIGHT. (DOWNWARD VECTOR)

NOTES:

1. BATTEN LOADING IS SUBJECT TO A DYNAMIC LOAD FACTOR OF 1.2 DURING A POWER FAILURE STOP (CAT-0 E-STOP).


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| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |
| DETROIT, MI | |


Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING SECTIONS PAINT SHOP

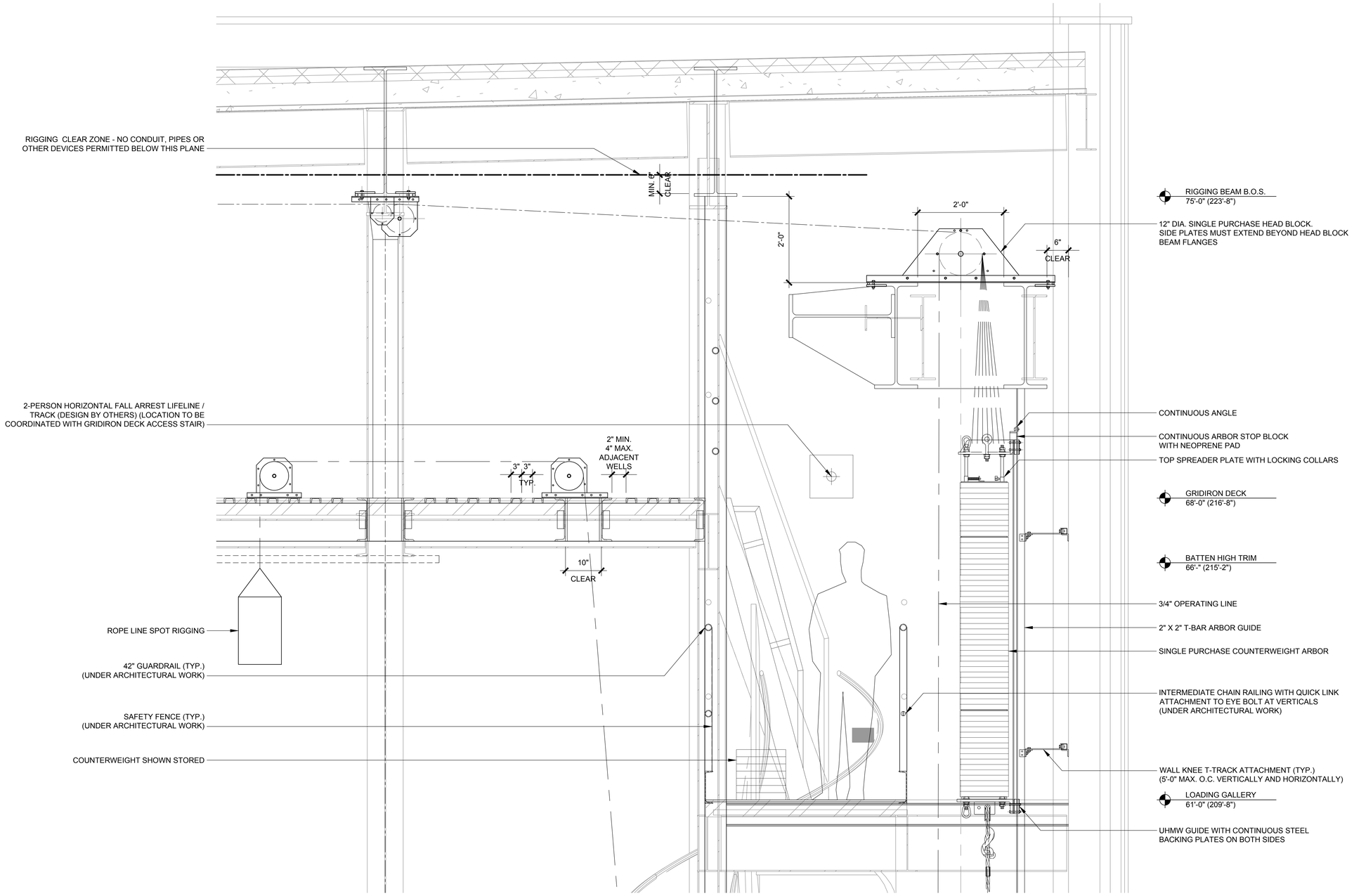
Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TR3.31C

Sheet Size: 30" x 42"
: Template Version




1 DETAIL SECTION AT LOADING GALLERY, HEAD BLOCK BEAM AND GRID
1"=1'-0"

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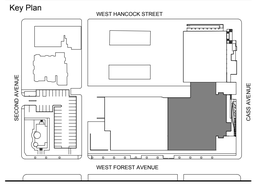
DETROIT, MI

Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING DETAILS PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

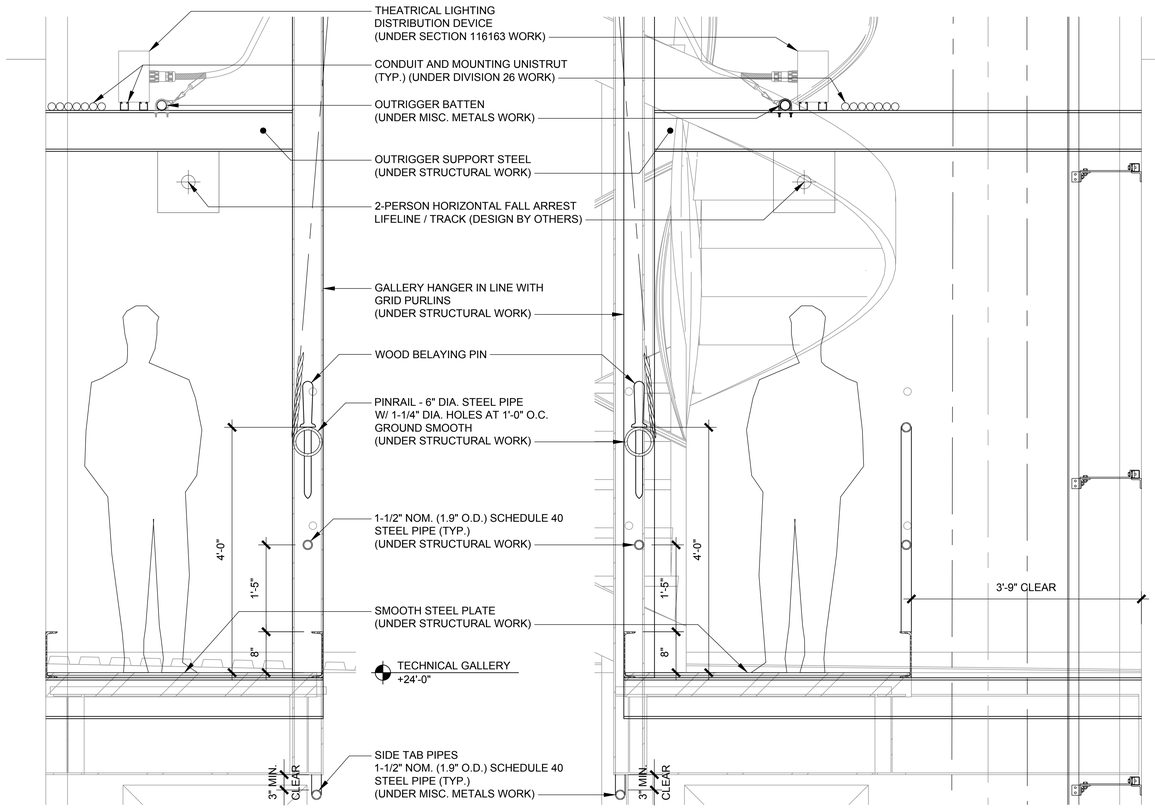
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

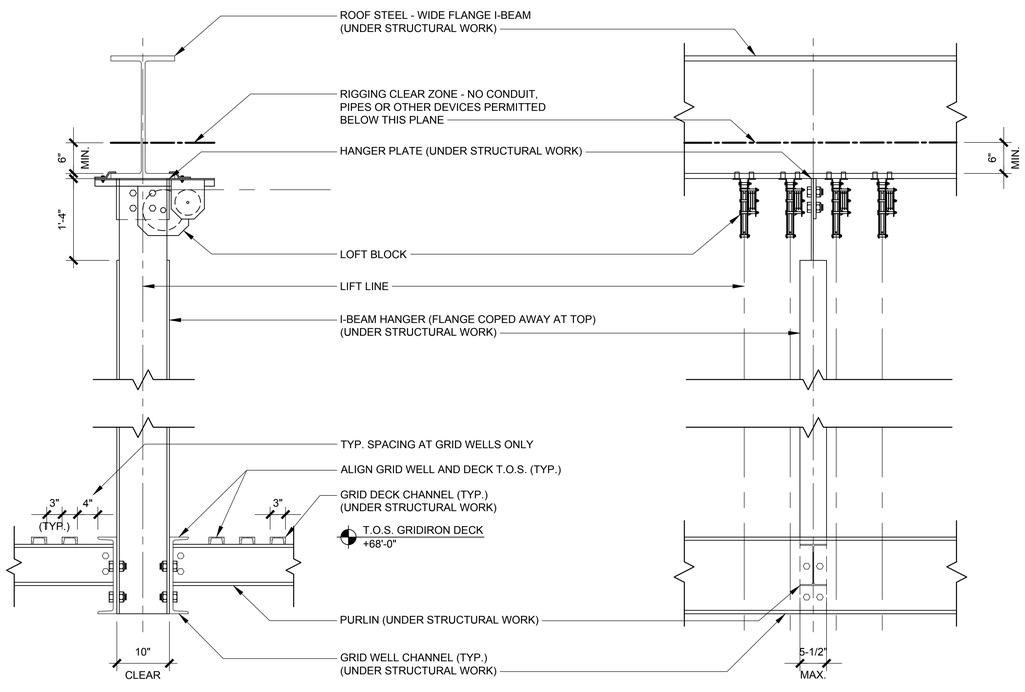
Drawing No:
TR5.1

Sheet Size: 30" x 42"
: Template Version

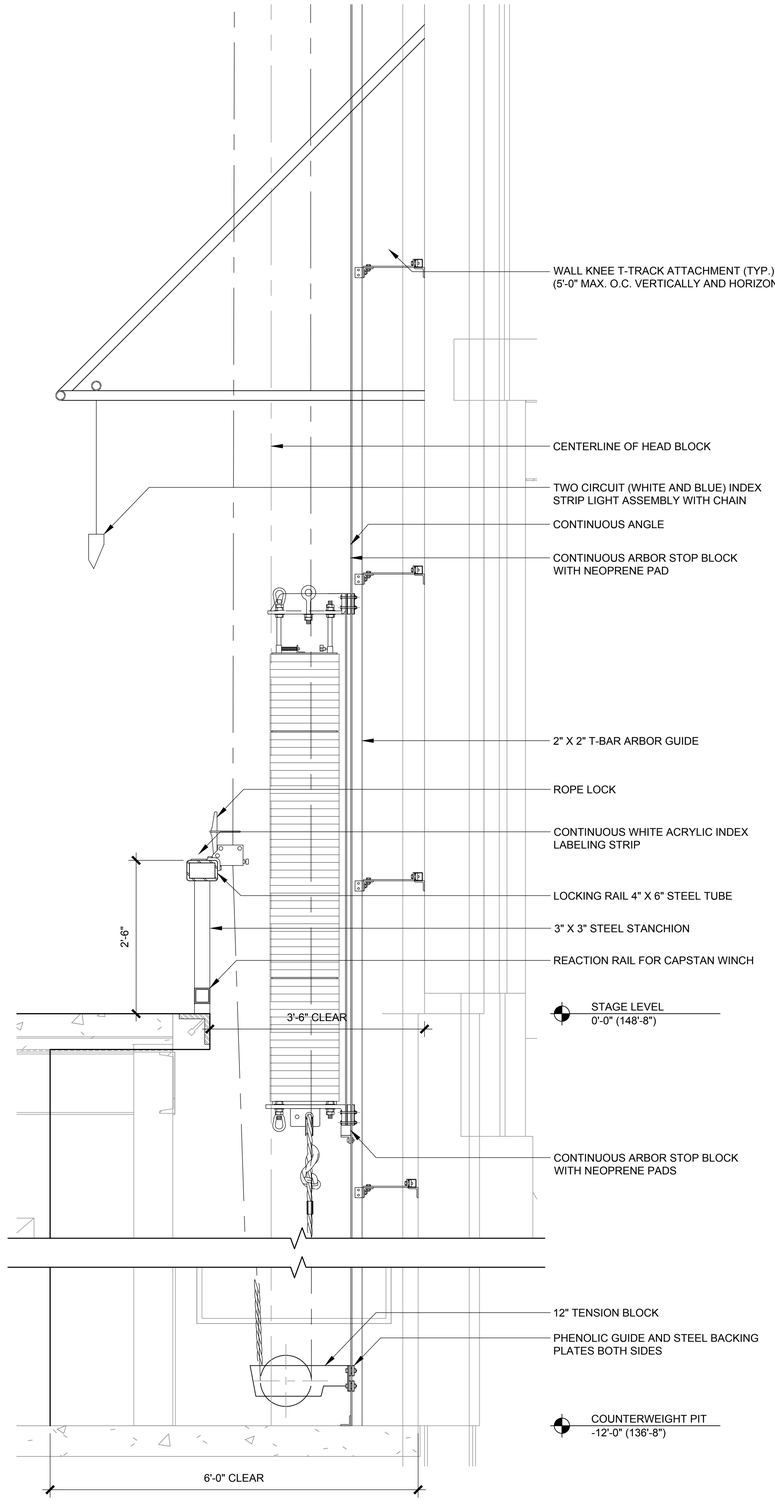



1 SECTION AT STAGE RIGHT TECHNICAL GALLERY
1"=1'-0"

2 SECTION AT STAGE LEFT TECHNICAL GALLERY
1"=1'-0"




3 GRID HANGER DETAIL
1"=1'-0"




4 DETAIL SECTION AT LOCK RAIL AND COUNTERWEIGHT PIT
1"=1'-0"

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| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
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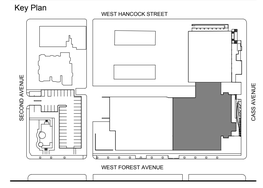
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING DETAILS PROSCENIUM THEATRE

Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

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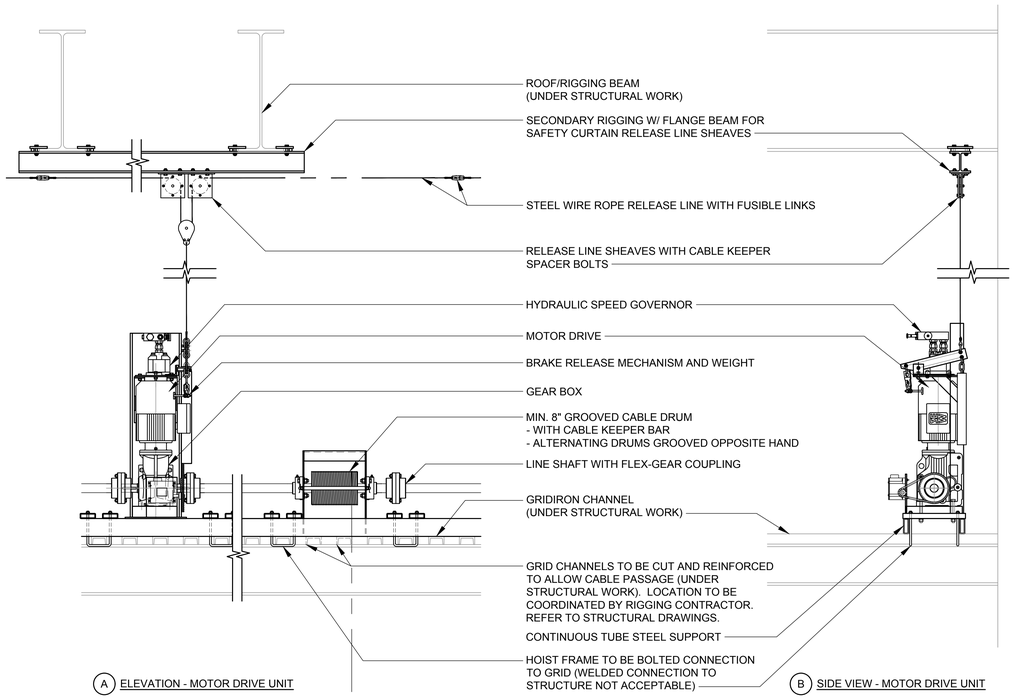
Signature:

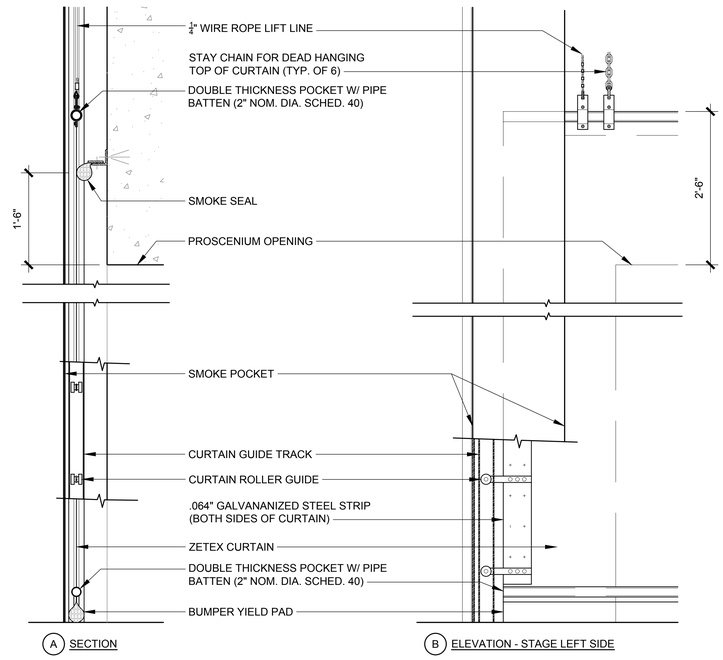
Drawing No:
TR5.2

Sheet Size: 30" x 42"
: Template Version



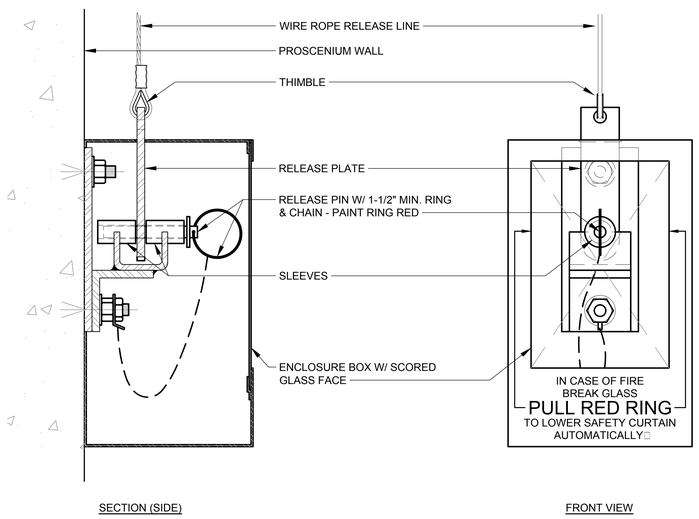

## 1 SAFETY CURTAIN HOIST DETAILS

1" = 1'-0"



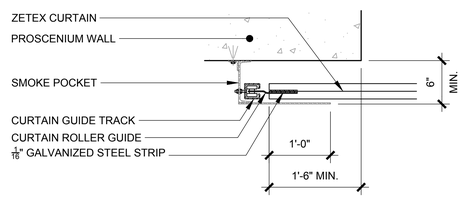

## 2 SAFETY CURTAIN SMOKE POCKET

1"=1'-0"




## 3 SAFETY CURTAIN RELEASE STATION

6"=1'-0"




## 4 SAFETY CURTAIN SMOKE POCKET - PLAN DETAIL

1"=1'-0"

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| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

THEATRICAL RIGGING SAFETY CURTAIN DETAILS

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

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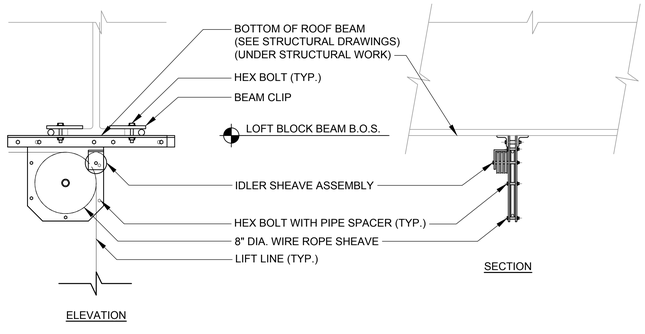
Signature:

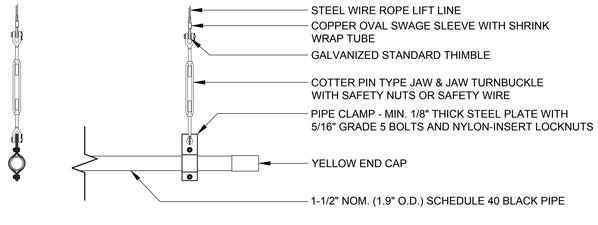
Drawing No:

TR5.3

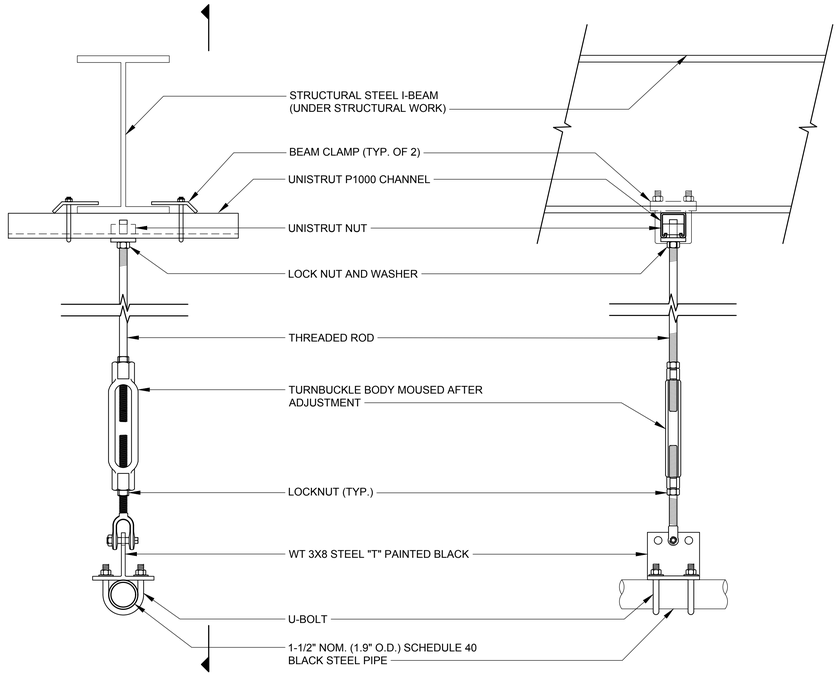
Sheet Size: 30" x 42"
: Template Version



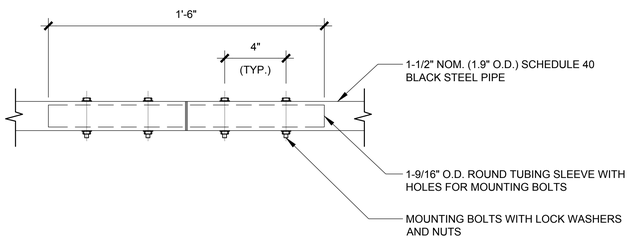

## 1 LOFT BLOCK DETAIL
1-1/2"=1'-0"



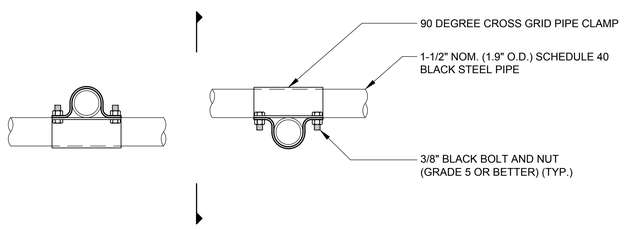

## 2 PIPE BATTEN END DETAIL
1-1/2"=1'-0"




## 4 PIPE GRID HANGER DETAIL
3"=1'-0"




## 3 PIPE SPLICE DETAIL
3"=1'-0"




## 5 PIPE INTERSECTION DETAIL
3"=1'-0"

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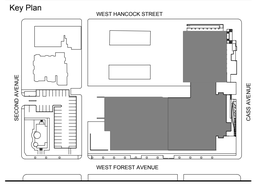
DETROIT, MI

Key Plan

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Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING DETAILS

Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

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Signature:

Drawing No:
TR5.4

Sheet Size: 30" x 42"
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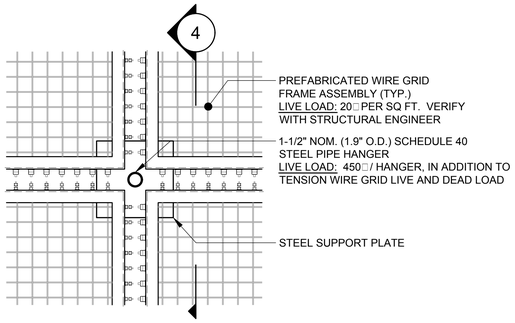
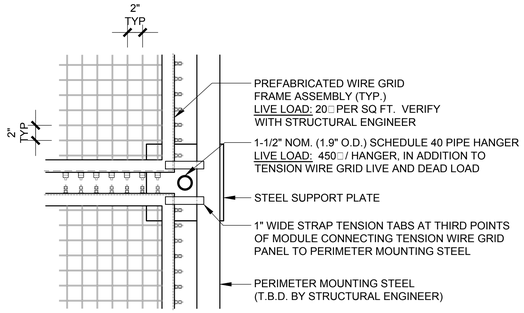
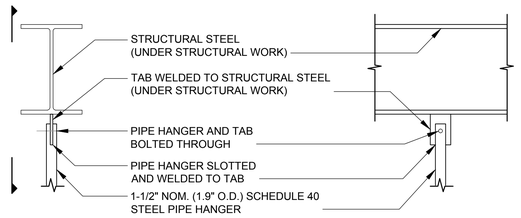


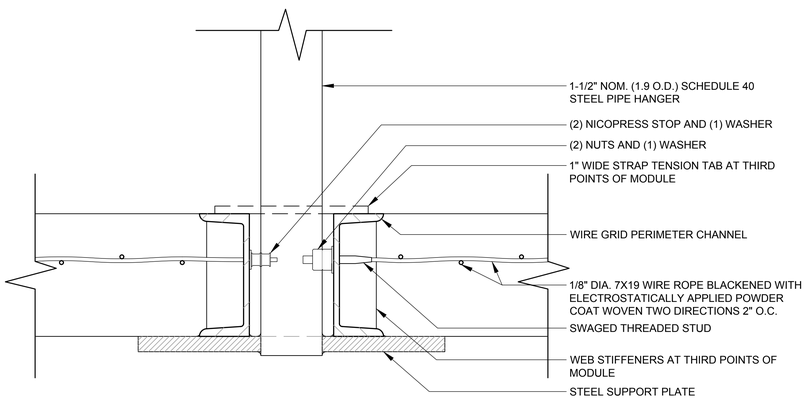

1 PLAN DETAIL AT INTERIOR GRID HANGER
1-1/2"=1'-0"



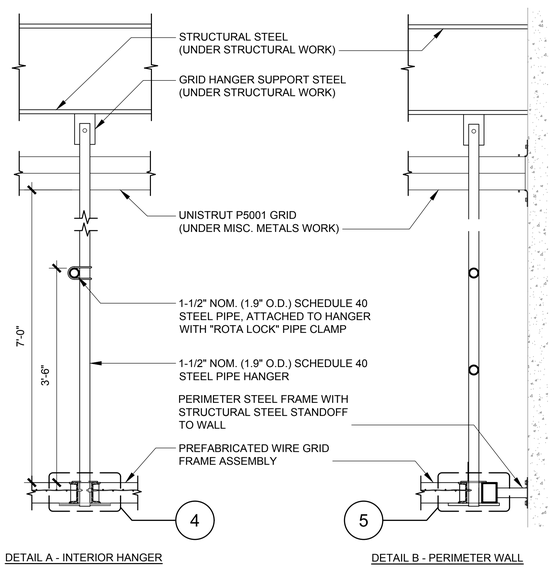

2 PLAN DETAIL AT PERIMETER GRID HANGER
1-1/2"=1'-0"



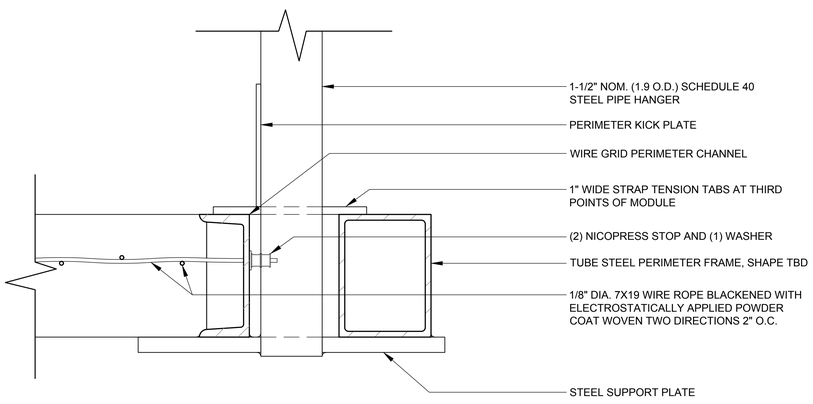

3 HANGER DETAIL AT STRUCTURE
1"=1'-0"



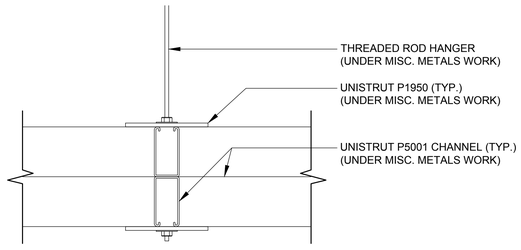

4 SECTION DETAIL AT INTERIOR HANGER
6"=1'-0"



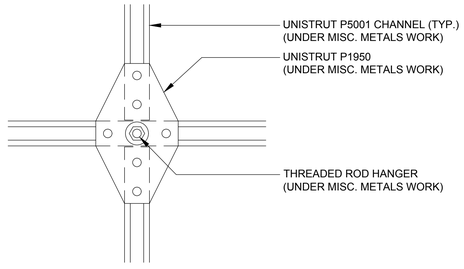

6 TYPICAL SECTIONS AT GRID HANGERS
1"=1'-0"




5 SECTION DETAIL AT PERIMETER HANGER
6"=1'-0"




7 PARTIAL SECTION AT UNISTRUT GRID
3"=1'-0"




8 UNISTRUT PICK POINT PLAN DETAIL
3"=1'-0"

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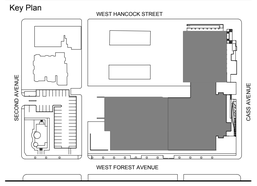
DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING TENSION WIRE GRID DETAILS

Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

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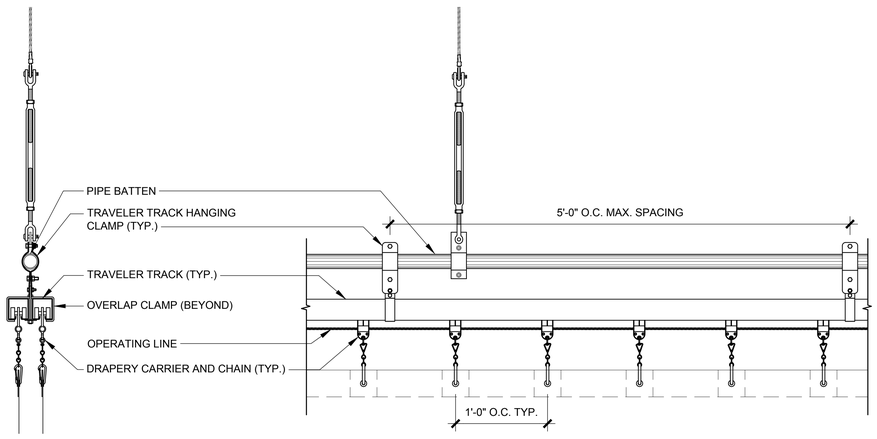
Signature:

Drawing No:
TR5.5

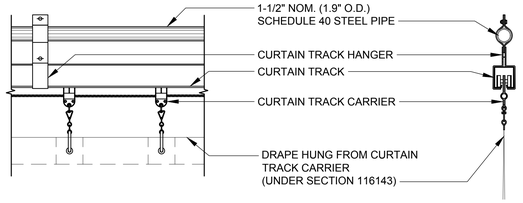
Sheet Size: 30" x 42"
: Template Version




SECTION

ELEVATION

1 TYPICAL BI-PART TRAVELER TRACK TO PIPE BATTEN CONNECTION DETAIL
1-1/2"=1'-0"




2 SIDE TAB DRAPERY TRACK PIPE MOUNT DETAIL
1-1/2"=1'-0"

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DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

THEATRICAL RIGGING DRAPERY TRACK DETAILS

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

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Signature:

Drawing No:

TR5.6

Sheet Size: 30" x 42"
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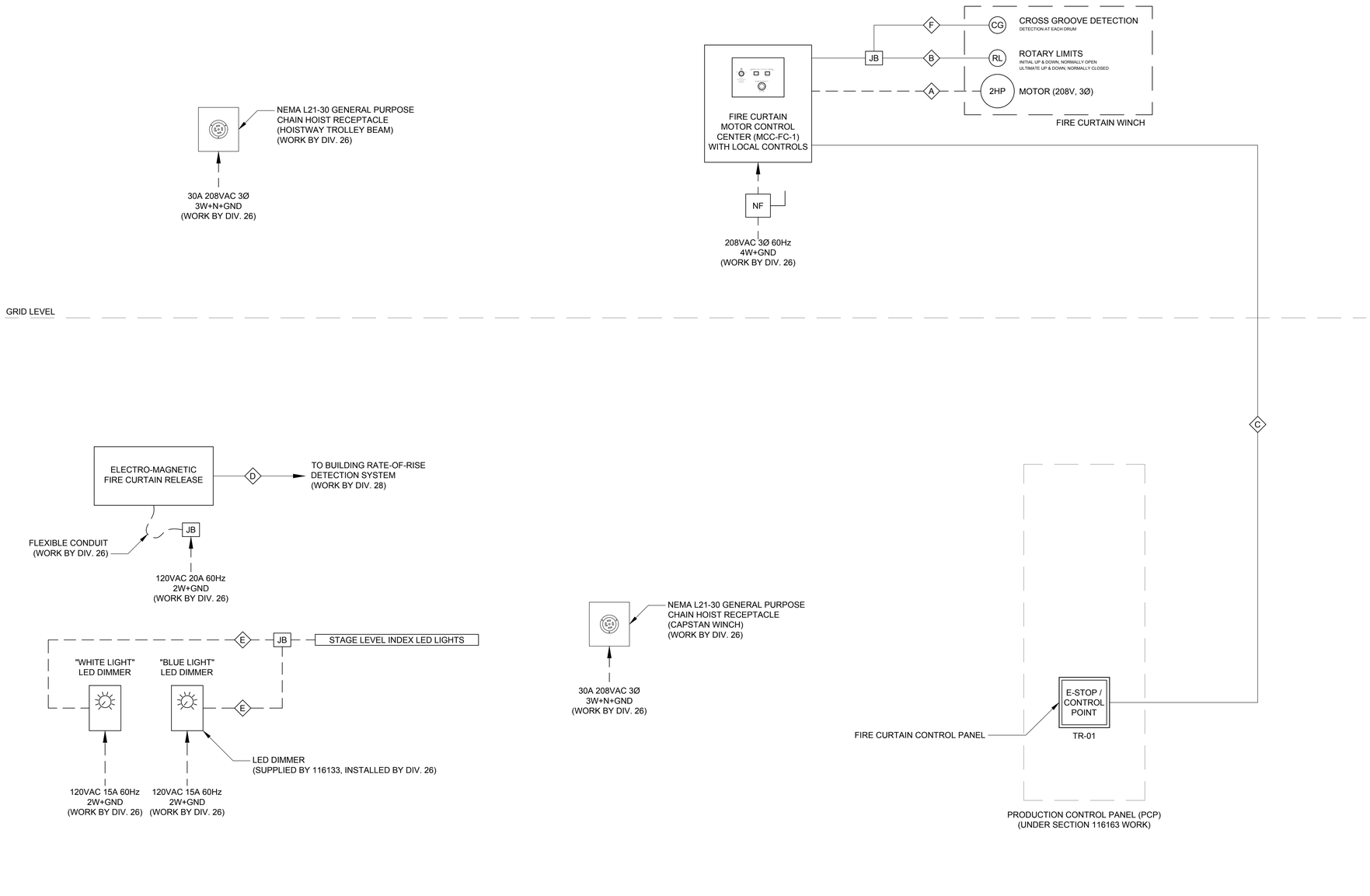


1 THEATRICAL RIGGING CONTROL SYSTEM RISER - PROSCENIUM THEATRE
NOT TO SCALE

WIRING KEY

- A — (6) □12 AWG (MOTOR: L1, L2, L3, + GRND, BRAKE: B4, B5) — TO BE VERIFIED BY 11 61 33
- B — (7) □14 AWG (LIMITS) — TO BE VERIFIED BY 11 61 33
- C — (10) □14 AWG (CONTROL) — TO BE VERIFIED BY 11 61 33
- D — (2) □14 AWG (RATE-OF-RISE SIGNAL) — TO BE VERIFIED BETWEEN 11 61 33 & DIV. 28
- E — (3) □12 AWG (2W + GRND) — TO BE VERIFIED BY DIV. 26
- F — (2) □14 AWG (CROSS GROOVE DETECTION) — TO BE VERIFIED BY 11 61 33

— — POWER

——— CONTROL/DATA

NOTE:

VERIFY FINAL WIRE TYPES AND QUANTITIES WITH THEATRICAL RIGGING SYSTEM CONTRACTOR.

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| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL RIGGING SYSTEM RISER PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

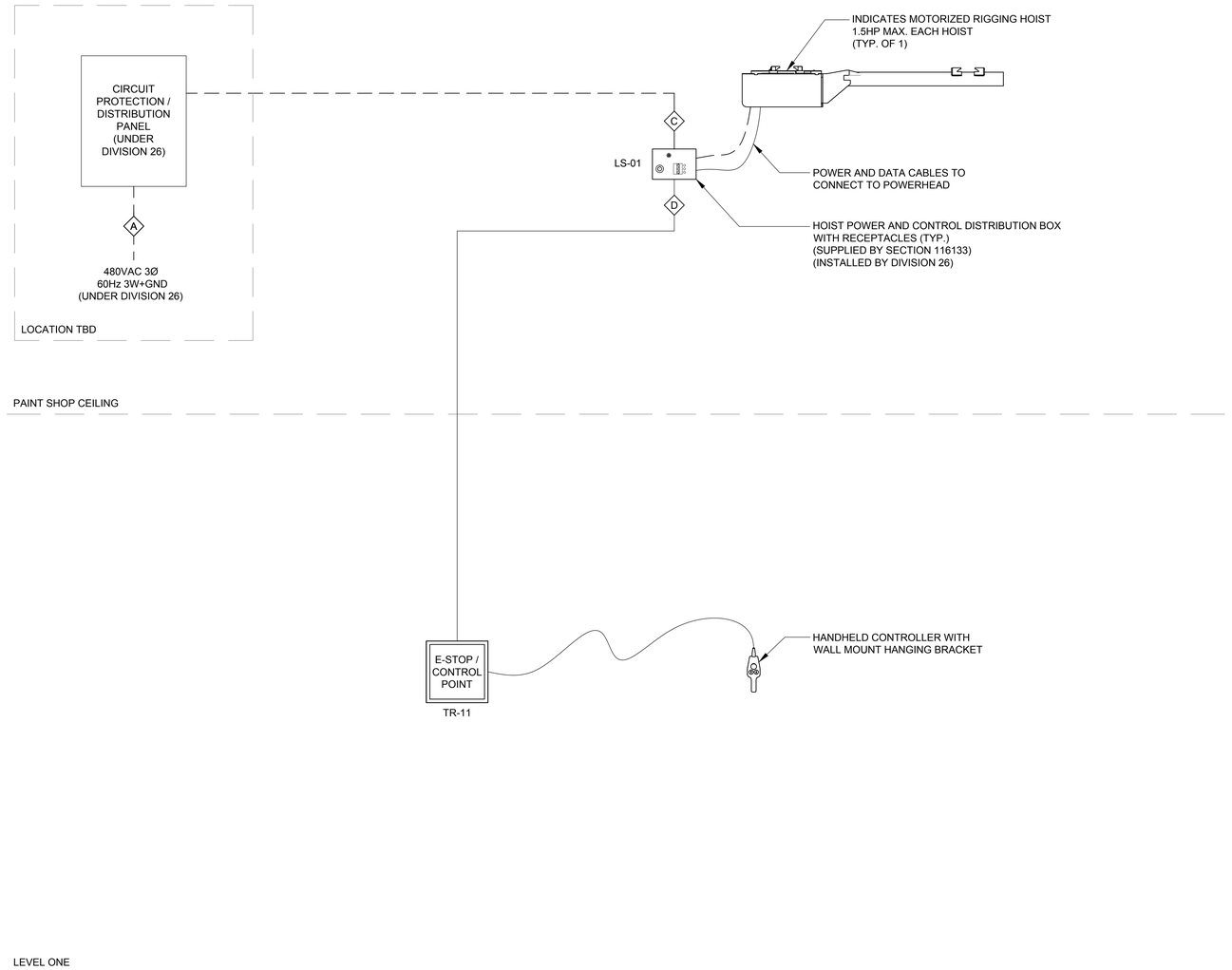
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TR6.1

Sheet Size: 30" x 42"
: Template Version




NOTES:

1. ALL WIRE RUNS MUST NOT EXCEED 300 FEET
2. WIRE TYPES ARE SHOWN FOR DESIGN INTENT ONLY. ACTUAL WIRE TYPES TO BE DETERMINED BY THE THEATRICAL RIGGING CONTRACTOR.
3. ALL CONDUIT, WIRE, POWER FEEDS, DISCONNECTS, PULL/JUNCTION BOXES AND FINAL FIELD TERMINATIONS BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

WIRE KEY - FOR DESIGN INTENT ONLY

| ID | QTY | DESCRIPTION | MFG/PART |
|---|---|---|---|
| A | 1 | 3W+GND 3P FEED | |
| B | 1 | 2W+GND 1P FEED | |
| C | AS NOTED | 3W+GND 3P FEED | |
| D | 1 | CONTROL DATA | BELDEN 7939A |
| E | 1 | E-STOP | BELDEN 8621 |

## 1 THEATRICAL RIGGING CONTROL SYSTEM RISER - PAINT SHOP - DEDUCT ALTERNATE

NOT TO SCALE

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

THEATRICAL RIGGING SYSTEM RISER PAINT SHOP

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TR6.2

Sheet Size: 30" x 42"
: Template Version

| LINESET ID | DESCRIPTION | DIST. FROM DATUM | END-USER WLL (lbs)* | ARBOR Capacity (lbs)** | BATTEN LENGTH | MAX. TRAVEL | LIFT LINES | BATTEN TYPE | COUNTER WEIGHT | LINESET TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| 1 | VALANCE | 1'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 2 | MAIN DRAPE | 2'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 3 | GENERAL PURPOSE | 3'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 4 | GENERAL PURPOSE | 3'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 5 | GENERAL PURPOSE | 4'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 6 | GENERAL PURPOSE | 5'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 7 | GENERAL PURPOSE | 6'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 8 | GENERAL PURPOSE | 6'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 9 | GENERAL PURPOSE | 7'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 10 | GENERAL PURPOSE | 8'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 11 | GENERAL PURPOSE | 9'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| | STRUCTURAL PURLIN | | | | | | | | | |
| 12 | GENERAL PURPOSE | 10'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 13 | GENERAL PURPOSE | 11'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 14 | GENERAL PURPOSE | 12'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 15 | GENERAL PURPOSE | 12'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 16 | GENERAL PURPOSE | 13'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 17 | GENERAL PURPOSE | 14'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 18 | GENERAL PURPOSE | 15'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 19 | GENERAL PURPOSE | 15'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 20 | GENERAL PURPOSE | 16'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 21 | GENERAL PURPOSE | 17'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 22 | GENERAL PURPOSE | 18'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 23 | GENERAL PURPOSE | 18'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 24 | GENERAL PURPOSE | 19'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| | STRUCTURAL PURLIN | | | | | | | | | |
| 25 | GENERAL PURPOSE | 21'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 26 | GENERAL PURPOSE | 21'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 27 | GENERAL PURPOSE | 22'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 28 | GENERAL PURPOSE | 23'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 29 | GENERAL PURPOSE | 24'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 30 | GENERAL PURPOSE | 24'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 31 | GENERAL PURPOSE | 25'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 32 | GENERAL PURPOSE | 26'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 33 | GENERAL PURPOSE | 27'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 34 | GENERAL PURPOSE | 27'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 35 | GENERAL PURPOSE | 28'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 36 | GENERAL PURPOSE | 29'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| | STRUCTURAL PURLIN | | | | | | | | | |
| 37 | GENERAL PURPOSE | 30'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 38 | GENERAL PURPOSE | 31'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 39 | GENERAL PURPOSE | 32'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 40 | GENERAL PURPOSE | 33'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 41 | GENERAL PURPOSE | 33'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 42 | GENERAL PURPOSE | 34'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 43 | GENERAL PURPOSE | 35'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 44 | GENERAL PURPOSE | 36'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 45 | GENERAL PURPOSE | 36'-9" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 46 | GENERAL PURPOSE | 37'-6" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 47 | GENERAL PURPOSE | 38'-3" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |
| 48 | GENERAL PURPOSE | 39'-0" | 1,635 | 1,800 | 55'-0" | 62'-6" | (6) 1/4" | SINGLE | 6" | MANUAL SINGLE PURCHASE COUNTERWEIGHT |

*EXCLUDES BATTEN SELF-WEIGHT (DEAD LOADS)
**INCLUDES BATTEN SELF-WEIGHT (DEAD LOADS)

## 1 THEATRICAL RIGGING LINESET SCHEDULE - PROSCENIUM THEATRE
NOT TO SCALE

| LINESET ID | DESCRIPTION | DIST. FROM DATUM | END-USER WLL (lbs)* | HOIST Capacity (lbs)** | BATTEN LENGTH | MAX. TRAVEL | LIFT LINES | BATTEN TYPE | SPEED | LINESET TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| 1 | MOTORIZED LINESET | N/A | 1,300 | 1,400 | 55'-0" | 14'-6" | (6) 3/16" | SINGLE | 30 FPM FIXED | ZERO-FLEET DRUM HOIST |

*EXCLUDES BATTEN SELF-WEIGHT (DEAD LOADS)
**INCLUDES BATTEN SELF-WEIGHT (DEAD LOADS)

## 2 THEATRICAL RIGGING LINESET SCHEDULE - PAINT SHOP
NOT TO SCALE

HamiltonAnderson
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HGA

WAYNE STATE UNIVERSITY


Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

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Acoustics — Jaffe Holden, 114-A Washington Street, Norwalk, CT 06864, 203.838.4168


DETROIT, MI

Key Plan

| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL RIGGING LINESET SCHEDULES

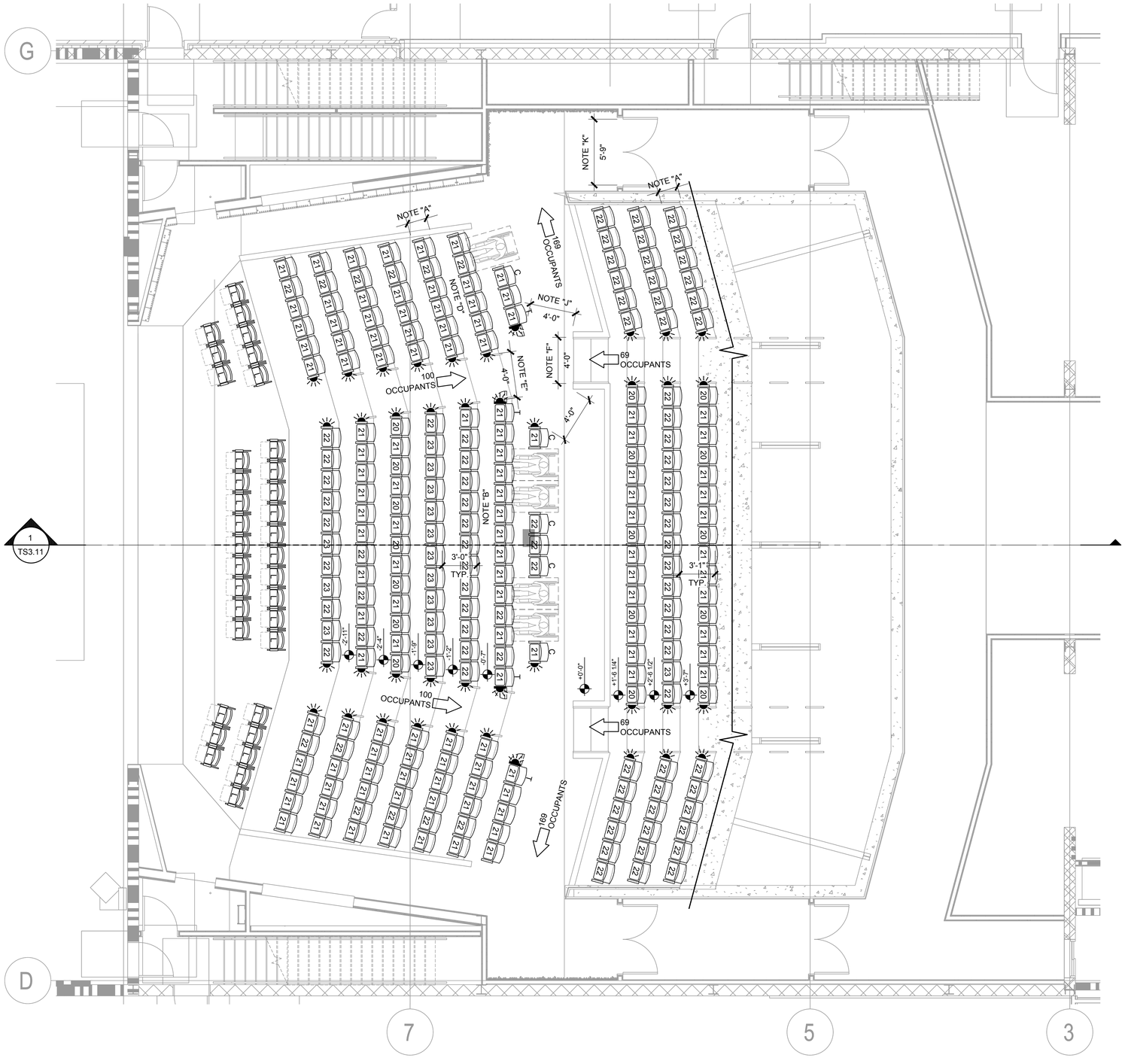
Project Number: 3995-001-00
Drawn By: APF
Scale: AS NOTED
Seal:

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

Signature:

Drawing No:
# TR8.1

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL SEATING LAYOUT PLAN - PROSCENIUM THEATRE, LEVEL ONE
1/4"=1'-0"

## CODE COMPLIANCE NOTES

CODES REFERENCED ARE:
INTERNATIONAL BUILDING CODE 2015 EDITION
ICC 300 2012 EDITION
ICC/ANSI A117.1 - 2009 EDITION
OCCUPANCY CLASSIFICATION: ASSEMBLY GROUP A-1

NOTE "A":
IN ORDER TO COMPLY WITH CODE REQUIRED MINIMUM AISLE ACCESSWAY DIMENSIONS AND TO PROVIDE FOR PATRON COMFORT, THE MAXIMUM SEAT ENVELOPE (DIMENSION FROM FRONT OF SEAT TO BACK) SHALL NOT EXCEED 21".

NOTE "B":
SEAT SPACING FOR DUAL ACCESS ROW PER 1029.12.2.1. THE LONGEST DUAL ACCESS ROW CONTAINS 14 SEATS. MINIMUM AISLE ACCESSWAY REQUIRED = 12". 36" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 15" AISLE ACCESSWAY PROVIDED.

NOTE "C":
SEAT SPACING FOR DUAL ACCESS ROW PER 1029.12.2.1. THE LONGEST DUAL ACCESS ROW CONTAINS 16 SEATS. 16 SEATS MINUS 14 SEATS = 2 SEAT. 12"+ (2)(0.3") = 12.6" MINIMUM AISLE ACCESSWAY REQUIRED. 37" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 16" AISLE ACCESSWAY PROVIDED.

NOTE "D":
SEAT SPACING FOR SINGLE ACCESS ROW PER 1029.12.2.2. THE LONGEST SINGLE ACCESS ROW CONTAINS 6 SEATS. MINIMUM AISLE ACCESSWAY REQUIRED = 12". 36" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 15" AISLE ACCESSWAY PROVIDED.

NOTE "E":
STEPPED AISLE WITH SEATING ON BOTH SIDES PER SECTION 1029.6.1 PARAGRAPH 1 REQUIRES 0.3" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 100 OCCUPANTS SERVED (WORST CASE). (100)(0.3") = 30.0" CALCULATED MINIMUM REQUIRED WIDTH. PER SECTION 1029.9.1 PARAGRAPH 1 MINIMUM REQUIRED WIDTH IS 48" AND 48" IS PROVIDED.

NOTE "F":
STEPPED AISLE WITH SEATING ON BOTH SIDES PER SECTION 1029.6.1 PARAGRAPH 1 REQUIRES 0.3" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 80 OCCUPANTS SERVED (WORST CASE). (80)(0.3") = 24.0" CALCULATED MINIMUM REQUIRED WIDTH. PER SECTION 1029.9.1 PARAGRAPH 1 MINIMUM REQUIRED WIDTH IS 48" AND 48" IS PROVIDED.

NOTE "G":
COMMON PATH OF EGRESS TRAVEL PER SECTION 1029.8 SHALL NOT EXCEED 30 FEET FROM THE POINT WHERE THE OCCUPANT IS SEATED TO A POINT WHERE THE OCCUPANT HAS A CHOICE OF TWO DIRECTIONS OF TRAVEL TO TWO EXITS. PATRONS IN DUAL ACCESS ROWS HAVE TWO DIRECTIONS IMMEDIATELY UPON STANDING SO THE EFFECTIVE TRAVEL DISTANCE IS ZERO FEET WHICH DOES NOT EXCEED THE MAXIMUM ALLOWED.

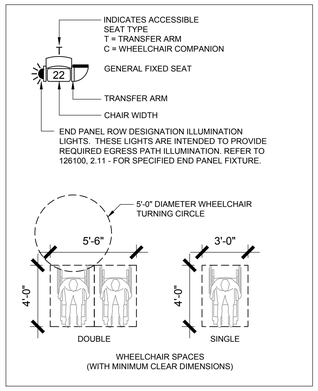
NOTE "H":
COMMON PATH OF EGRESS TRAVEL PER SECTION 1029.8 SHALL NOT EXCEED 30 FEET FROM THE POINT WHERE THE OCCUPANT IS SEATED TO A POINT WHERE THE OCCUPANT HAS A CHOICE OF TWO DIRECTIONS OF TRAVEL TO TWO EXITS. INDICATED DISTANCE IS 10'-0" WHICH DOES NOT EXCEED THE MAXIMUM ALLOWED.

NOTE "J":
MEANS OF EGRESS PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT THERE ARE 110 OCCUPANTS SERVED, (169)(0.2") = 33.8" CALCULATED MINIMUM REQUIRED WIDTH. 48" OF WIDTH IS PROVIDED.

NOTE "K":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 169 OCCUPANTS SERVED, (169)(0.20) = 33.8" CALCULATED MINIMUM REQUIRED WIDTH. 69" OF WIDTH IS PROVIDED.

NOTE "L":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 88 OCCUPANTS SERVED (WORSET CASE), (88)(0.20) = 17.6" CALCULATED MINIMUM REQUIRED WIDTH. 34" OF WIDTH IS PROVIDED.

## SEATING KEY




## GENERAL NOTES

1. SEATING LAYOUT INDICATES DESIGN INTENT ONLY. FINAL LAYOUT ON SHOP DRAWINGS INCLUDING CHAIR DIMENSIONS AND QUANTITIES ARE THE SOLE RESPONSIBILITY OF THE THEATRICAL SEATING CONTRACTOR.
2. CLEAR AISLE DIMENSIONS INDICATED ON THE DRAWINGS ARE TO BE FOLLOWED WHEN PREPARING SHOP DRAWINGS. THESE DIMENSIONS ARE BASED ON PROJECT CODE REQUIREMENTS.
3. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO PREPARATION OF SHOP DRAWINGS.
4. WHEN LAYING OUT SEATS IN ROWS WHICH CONTAIN VARYING WIDTH SEATS, ADHERE TO THE FOLLOWING GUIDELINES WHERE POSSIBLE:

   - A NARROWER SEAT IS TO BE MOUNTED ADJACENT TO AN AISLE.

   - A WIDER SEAT IS TO BE MOUNTED ADJACENT TO SIDE WALLS OR RAILINGS.

   - THE REMAINING VARYING WIDTH SEATS ARE TO BE DISTRIBUTED THROUGHOUT THE ROW SO THAT NARROW SEATS ARE NOT MOUNTED ADJACENT TO ONE ANOTHER.

   - WHERE POSSIBLE, SEATS SHOULD BE STAGGERED FROM ROW TO ROW.
5. ALL EQUIPMENT BY SEATING CONTRACTOR UNLESS OTHERWISE NOTED.
6. AISLE LIGHT FIXTURES PREWIRED BY SEATING CONTRACTOR AND TERMINATED BY DIVISION 26. AISLE LIGHT JUNCTION BOX, WIRE, AND CONDUIT PROVIDED BY DIVISION 26.
7. AISLE LIGHT TRANSFORMER(S) SUPPLIED BY SEATING CONTRACTOR AND INSTALLED BY DIVISION 26.
8. ROW LETTER AND SEAT NUMBER SCHEME SHALL BE CONFIRMED DURING THE SEATING SHOP DRAWING PROCESS.

## ACCESSIBILITY NOTES

1. WHEELCHAIR SPACES REQUIRED BY IBC 1108.2.2.1 = 7. 7 SPACES ARE PROVIDED.
2. WHEELCHAIR COMPANION SEATS ARE PROVIDED ADJACENT TO WHEELCHAIR SPACES PER IBC 1108.2.3.
3. AISLE ADJACENT TRANSFER SEATS REQUIRED BY IBC 1108.2.6 = 5 (5% OF TOTAL NUMBER OF AISLE SEATS AND THERE ARE 80 AISLE SEATS). 6 TRANSFER SEATS ARE PROVIDED.

## SEATING TOTALS

| | LIFT | ORCHESTRA | PARTERRE | GALLERY | OVERALL |
|---|---|---|---|---|---|
| FIXED SEATS | - | 160 | 297 | - | 457 |
| LOOSE SEATS | 35 | - | - | 14 | 49 |
| WHEELCHAIRS | - | 5 | - | 2 | 7 |
| TOTAL | 35 | 165 | 100 | 16 | 513 |

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
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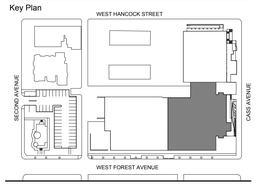
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL SEATING LAYOUT PLAN - PROSCENIUM THEATRE, LEVEL ONE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

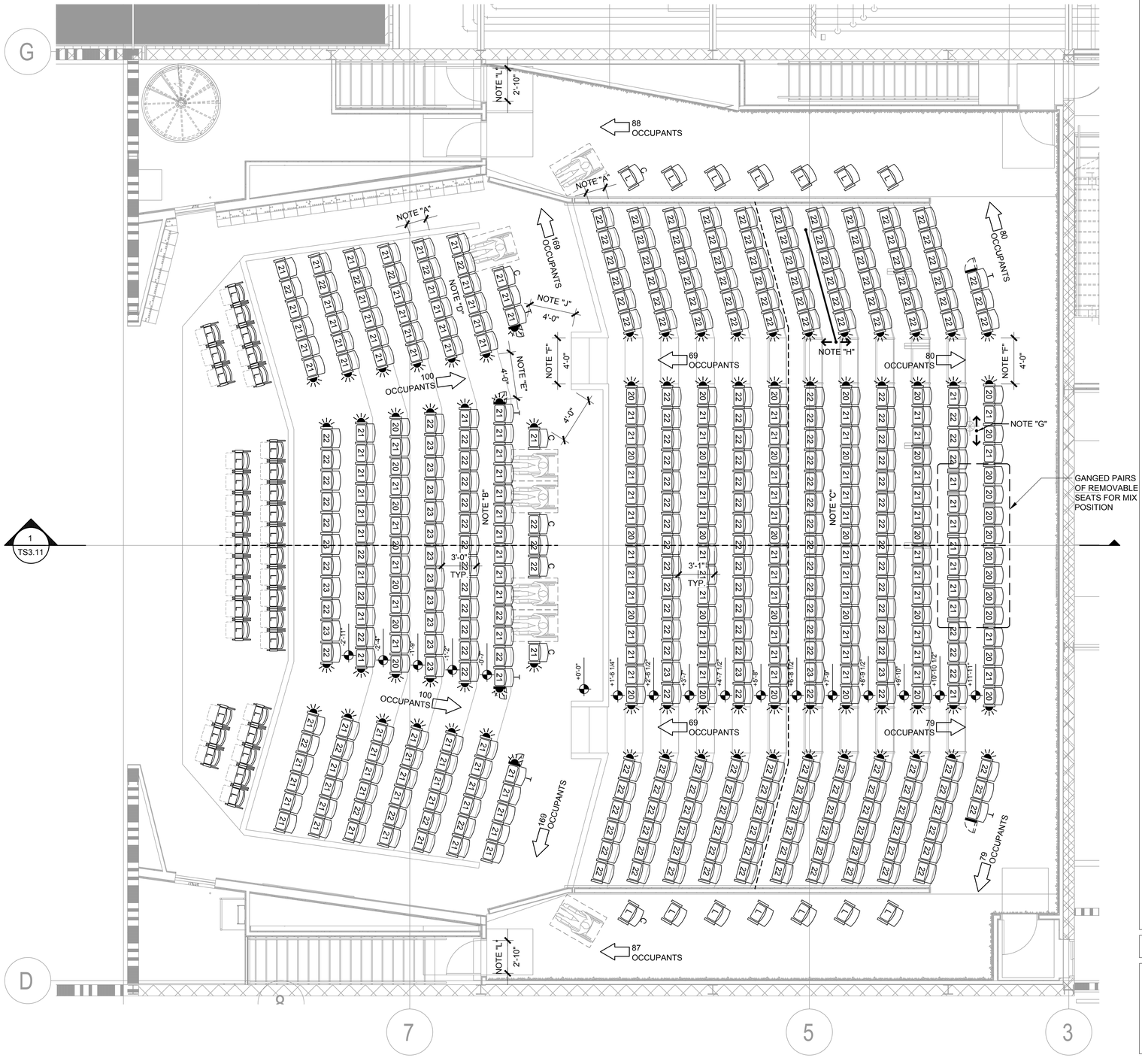
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:
TS1.11B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL SEATING LAYOUT PLAN - PROSCENIUM THEATRE, LEVEL TWO
1/4"=1'-0"

## CODE COMPLIANCE NOTES

CODES REFERENCED ARE:
INTERNATIONAL BUILDING CODE 2015 EDITION
ICC 300 2012 EDITION
ICC/ANSI A117.1 - 2009 EDITION
OCCUPANCY CLASSIFICATION: ASSEMBLY GROUP A-1

NOTE "A":
IN ORDER TO COMPLY WITH CODE REQUIRED MINIMUM AISLE ACCESSWAY DIMENSIONS AND TO PROVIDE FOR PATRON COMFORT, THE MAXIMUM SEAT ENVELOPE (DIMENSION FROM FRONT OF SEAT TO BACK) SHALL NOT EXCEED 21".

NOTE "B":
SEAT SPACING FOR DUAL ACCESS ROW PER 1029.12.2.1. THE LONGEST DUAL ACCESS ROW CONTAINS 14 SEATS. MINIMUM AISLE ACCESSWAY REQUIRED = 12". 36" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 15" AISLE ACCESSWAY PROVIDED.

NOTE "C":
SEAT SPACING FOR DUAL ACCESS ROW PER 1029.12.2.1. THE LONGEST DUAL ACCESS ROW CONTAINS 16 SEATS. 16 SEATS MINUS 14 SEATS = 2 SEAT. 12"+ (2)(0.3") = 12.6" MINIMUM AISLE ACCESSWAY REQUIRED. 37" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 16" AISLE ACCESSWAY PROVIDED.

NOTE "D":
SEAT SPACING FOR SINGLE ACCESS ROW PER 1029.12.2.2. THE LONGEST SINGLE ACCESS ROW CONTAINS 6 SEATS. MINIMUM AISLE ACCESSWAY REQUIRED = 12". 36" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 15" AISLE ACCESSWAY PROVIDED.

NOTE "E":
STEPPED AISLE WITH SEATING ON BOTH SIDES PER SECTION 1029.6.1 PARAGRAPH 1 REQUIRES 0.3" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 100 OCCUPANTS SERVED (WORST CASE). (100)(0.3") = 30.0" CALCULATED MINIMUM REQUIRED WIDTH. PER SECTION 1029.9.1 PARAGRAPH 1 MINIMUM REQUIRED WIDTH IS 48" AND 48" IS PROVIDED.

NOTE "F":
STEPPED AISLE WITH SEATING ON BOTH SIDES PER SECTION 1029.6.1 PARAGRAPH 1 REQUIRES 0.3" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 80 OCCUPANTS SERVED (WORST CASE). (80)(0.3") = 24.0" CALCULATED MINIMUM REQUIRED WIDTH. PER SECTION 1029.9.1 PARAGRAPH 1 MINIMUM REQUIRED WIDTH IS 48" AND 48" IS PROVIDED.

NOTE "G":
COMMON PATH OF EGRESS TRAVEL PER SECTION 1029.8 SHALL NOT EXCEED 30 FEET FROM THE POINT WHERE THE OCCUPANT IS SEATED TO A POINT WHERE THE OCCUPANT HAS A CHOICE OF TWO DIRECTIONS OF TRAVEL TO TWO EXITS. PATRONS IN DUAL ACCESS ROWS HAVE TWO DIRECTIONS IMMEDIATELY UPON STANDING SO THE EFFECTIVE TRAVEL DISTANCE IS ZERO FEET WHICH DOES NOT EXCEED THE MAXIMUM ALLOWED.

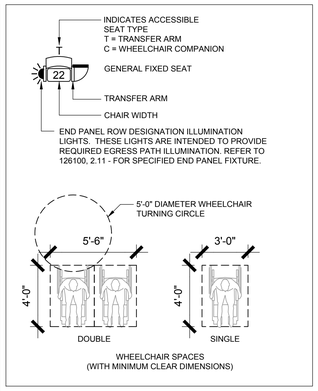
NOTE "H":
COMMON PATH OF EGRESS TRAVEL PER SECTION 1029.8 SHALL NOT EXCEED 30 FEET FROM THE POINT WHERE THE OCCUPANT IS SEATED TO A POINT WHERE THE OCCUPANT HAS A CHOICE OF TWO DIRECTIONS OF TRAVEL TO TWO EXITS. INDICATED DISTANCE IS 10'-0" WHICH DOES NOT EXCEED THE MAXIMUM ALLOWED.

NOTE "J":
MEANS OF EGRESS PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT THERE ARE 110 OCCUPANTS SERVED, (169)(0.2") = 33.8" CALCULATED MINIMUM REQUIRED WIDTH. 48" OF WIDTH IS PROVIDED.

NOTE "K":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 169 OCCUPANTS SERVED, (169)(0.20) = 33.8" CALCULATED MINIMUM REQUIRED WIDTH. 69" OF WIDTH IS PROVIDED.

NOTE "L":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 88 OCCUPANTS SERVED (WORSET CASE), (88)(0.20) = 17.6" CALCULATED MINIMUM REQUIRED WIDTH. 34" OF WIDTH IS PROVIDED.

## SEATING KEY




## GENERAL NOTES

1. SEATING LAYOUT INDICATES DESIGN INTENT ONLY. FINAL LAYOUT ON SHOP DRAWINGS INCLUDING CHAIR DIMENSIONS AND QUANTITIES ARE THE SOLE RESPONSIBILITY OF THE THEATRICAL SEATING CONTRACTOR.
2. CLEAR AISLE DIMENSIONS INDICATED ON THE DRAWINGS ARE TO BE FOLLOWED WHEN PREPARING SHOP DRAWINGS. THESE DIMENSIONS ARE BASED ON PROJECT CODE REQUIREMENTS.
3. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO PREPARATION OF SHOP DRAWINGS.
4. WHEN LAYING OUT SEATS IN ROWS WHICH CONTAIN VARYING WIDTH SEATS, ADHERE TO THE FOLLOWING GUIDELINES WHERE POSSIBLE:

   - A NARROWER SEAT IS TO BE MOUNTED ADJACENT TO AN AISLE.

   - A WIDER SEAT IS TO BE MOUNTED ADJACENT TO SIDE WALLS OR RAILINGS.

   - THE REMAINING VARYING WIDTH SEATS ARE TO BE DISTRIBUTED THROUGHOUT THE ROW SO THAT NARROW SEATS ARE NOT MOUNTED ADJACENT TO ONE ANOTHER.

   - WHERE POSSIBLE, SEATS SHOULD BE STAGGERED FROM ROW TO ROW.
5. ALL EQUIPMENT BY SEATING CONTRACTOR UNLESS OTHERWISE NOTED.
6. AISLE LIGHT FIXTURES PREWIRED BY SEATING CONTRACTOR AND TERMINATED BY DIVISION 26. AISLE LIGHT JUNCTION BOX, WIRE, AND CONDUIT PROVIDED BY DIVISION 26.
7. AISLE LIGHT TRANSFORMER(S) SUPPLIED BY SEATING CONTRACTOR AND INSTALLED BY DIVISION 26.
8. ROW LETTER AND SEAT NUMBER SCHEME SHALL BE CONFIRMED DURING THE SEATING SHOP DRAWING PROCESS.

## ACCESSIBILITY NOTES

1. WHEELCHAIR SPACES REQUIRED BY IBC 1108.2.2.1 = 7. 7 SPACES ARE PROVIDED.
2. WHEELCHAIR COMPANION SEATS ARE PROVIDED ADJACENT TO WHEELCHAIR SPACES PER IBC 1108.2.3.
3. AISLE ADJACENT TRANSFER SEATS REQUIRED BY IBC 1108.2.6 = 5 (5% OF TOTAL NUMBER OF AISLE SEATS AND THERE ARE 80 AISLE SEATS). 6 TRANSFER SEATS ARE PROVIDED.

## SEATING TOTALS

| | LIFT | ORCHESTRA | PARTERRE | GALLERY | OVERALL |
|---|---|---|---|---|---|
| FIXED SEATS | - | 160 | 297 | - | 455 |
| LOOSE SEATS | 35 | - | - | 14 | 49 |
| WHEELCHAIRS | - | 5 | - | 2 | 7 |
| TOTAL | 35 | 165 | 100 | 16 | 513 |

HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY


Owner — Wayne State University FP&M, 5454 Cass Ave, Detroit, MI 48202, 313.577.2424

Contractor — Walbridge, 777 Woodward Ave. Suite 300, Detroit, MI 48202, 313.963.8000

Executive Architect — Hamilton Anderson, 1435 Randolph Street, Suite 200, Detroit, MI 48226, 313.964.0270

Design Architect — HGA, 420 5th Street N, Suite 100, Minneapolis, MN 55401, 612.758.4000

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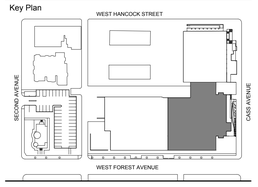
DETROIT, MI


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title
## THEATRICAL SEATING LAYOUT PLAN - PROSCENIUM THEATRE, CONTROL ROOM LEVEL

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

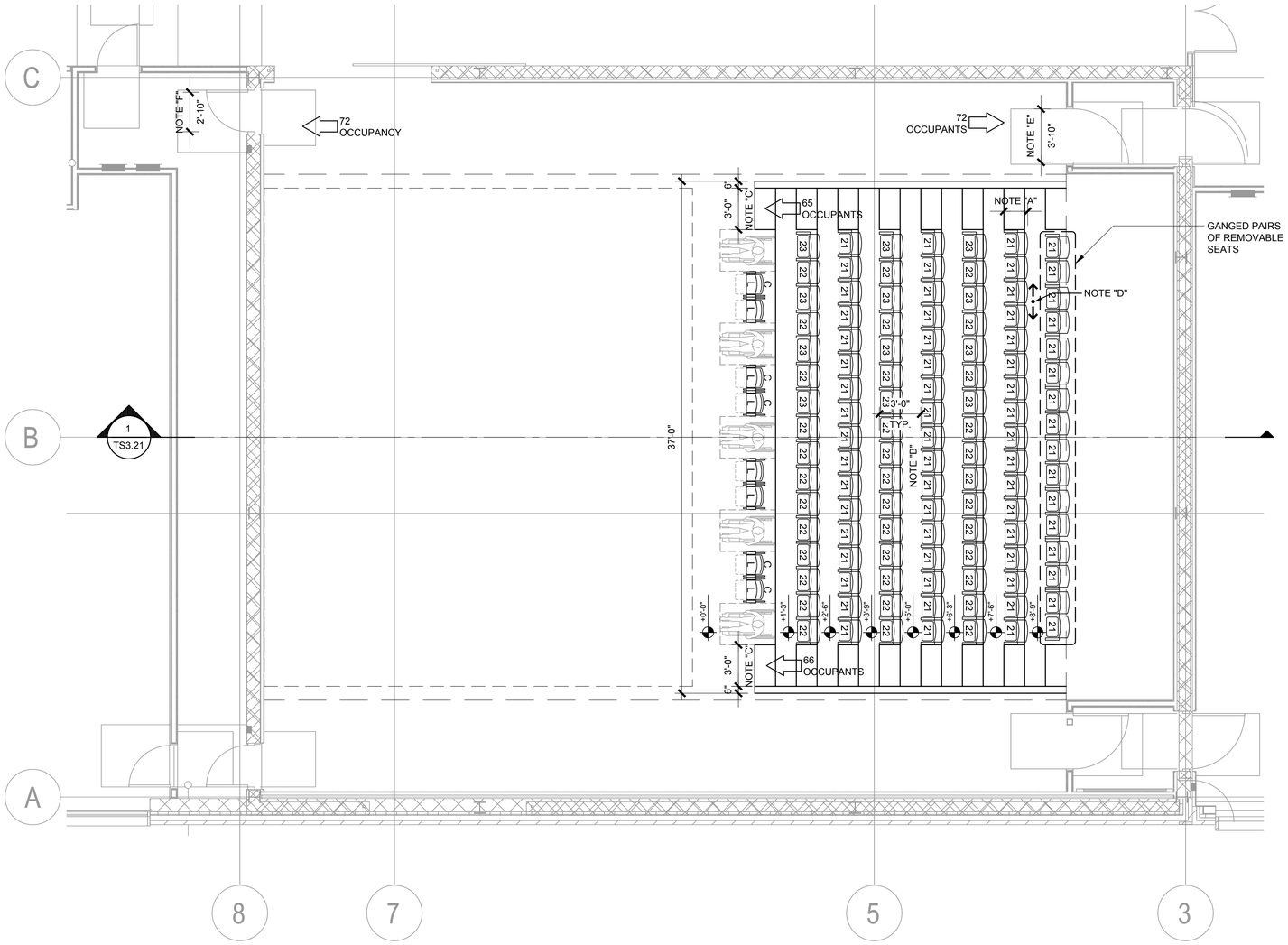
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

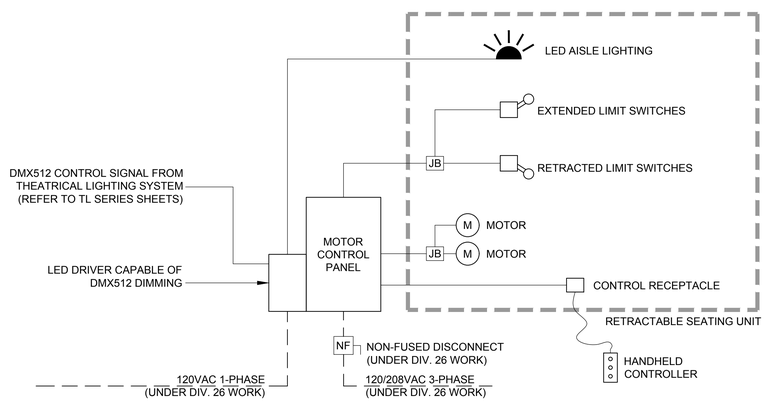
Drawing No:

# TS1.12B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL SEATING LAYOUT PLAN - STUDIO THEATRE, LEVEL ONE
1/4"=1'-0"




2 RETRACTABLE SEATING CONTROL RISER
NOT TO SCALE

## CODE COMPLIANCE NOTES

CODES REFERENCED ARE:
INTERNATIONAL BUILDING CODE 2015 EDITION
ICC 300 2012 EDITION
ICC/ANSI A117.1 - 2009 EDITION
OCCUPANCY CLASSIFICATION: ASSEMBLY GROUP A-1

NOTE "A":
IN ORDER TO COMPLY WITH CODE REQUIRED MINIMUM AISLE ACCESSWAY DIMENSIONS AND TO PROVIDE FOR PATRON COMFORT, THE MAXIMUM SEAT ENVELOPE (DIMENSION FROM FRONT OF SEAT TO BACK) SHALL NOT EXCEED 21".

NOTE "B":
SEAT SPACING FOR DUAL ACCESS ROW PER 1029.12.2.1. THE LONGEST DUAL ACCESS ROW CONTAINS 17 SEATS. 17 SEATS MINUS 14 SEATS = 3 SEAT. 12"+ (3)(0.3") = 12.9" MINIMUM AISLE ACCESSWAY REQUIRED. 36" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 15" AISLE ACCESSWAY PROVIDED.

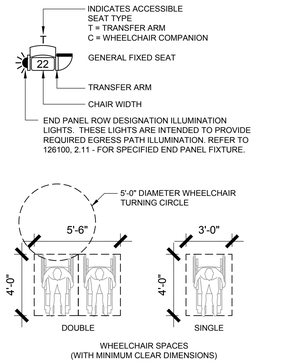
NOTE "C":
STEPPED AISLE WITH SEATING ON ONE SIDES PER SECTION 1029.6.1 PARAGRAPH 1 REQUIRES 0.3" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 66 OCCUPANTS SERVED (WORST CASE). (66)(0.3") = 19.8" CALCULATED MINIMUM REQUIRED WIDTH. PER SECTION 1029.9.1 PARAGRAPH 2 MINIMUM REQUIRED WIDTH IS 36" AND 36" IS PROVIDED.

NOTE "D":
COMMON PATH OF EGRESS TRAVEL PER SECTION 1029.8 SHALL NOT EXCEED 30 FEET FROM THE POINT WHERE THE OCCUPANT IS SEATED TO A POINT WHERE THE OCCUPANT HAS A CHOICE OF TWO DIRECTIONS OF TRAVEL TO TWO EXITS. PATRONS IN DUAL ACCESS ROWS HAVE TWO DIRECTIONS IMMEDIATELY UPON STANDING SO THE EFFECTIVE TRAVEL DISTANCE IS ZERO FEET WHICH DOES NOT EXCEED THE MAXIMUM ALLOWED.

NOTE "E":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 72 OCCUPANTS SERVED, (72)(0.20) = 14.4" CALCULATED MINIMUM REQUIRED WIDTH. 46" OF WIDTH IS PROVIDED.

NOTE "F":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 72 OCCUPANTS SERVED, (72)(0.20) = 14.4" CALCULATED MINIMUM REQUIRED WIDTH. 34" OF WIDTH IS PROVIDED.

## SEATING KEY




## GENERAL NOTES

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## ACCESSIBILITY NOTES

1. WHEELCHAIR SPACES REQUIRED BY IBC 1108.2.2.1 = 5. 5 SPACES ARE PROVIDED.
2. WHEELCHAIR COMPANION SEATS ARE PROVIDED ADJACENT TO WHEELCHAIR SPACES PER IBC 1108.2.3.

## SEATING TOTALS

| | LEVEL ONE | GALLERY | OVERALL |
|---|---|---|---|
| FIXED SEATS | 115 | - | 115 |
| LOOSE SEATS | 8 | 16 | 24 |
| WHEELCHAIRS | 5 | - | 5 |
| TOTAL | 128 | 16 | 144 |


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HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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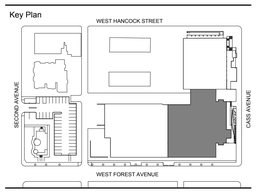
DETROIT, MI


Key Plan

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| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL SEATING LAYOUT PLAN - STUDIO THEATRE, LEVEL ONE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

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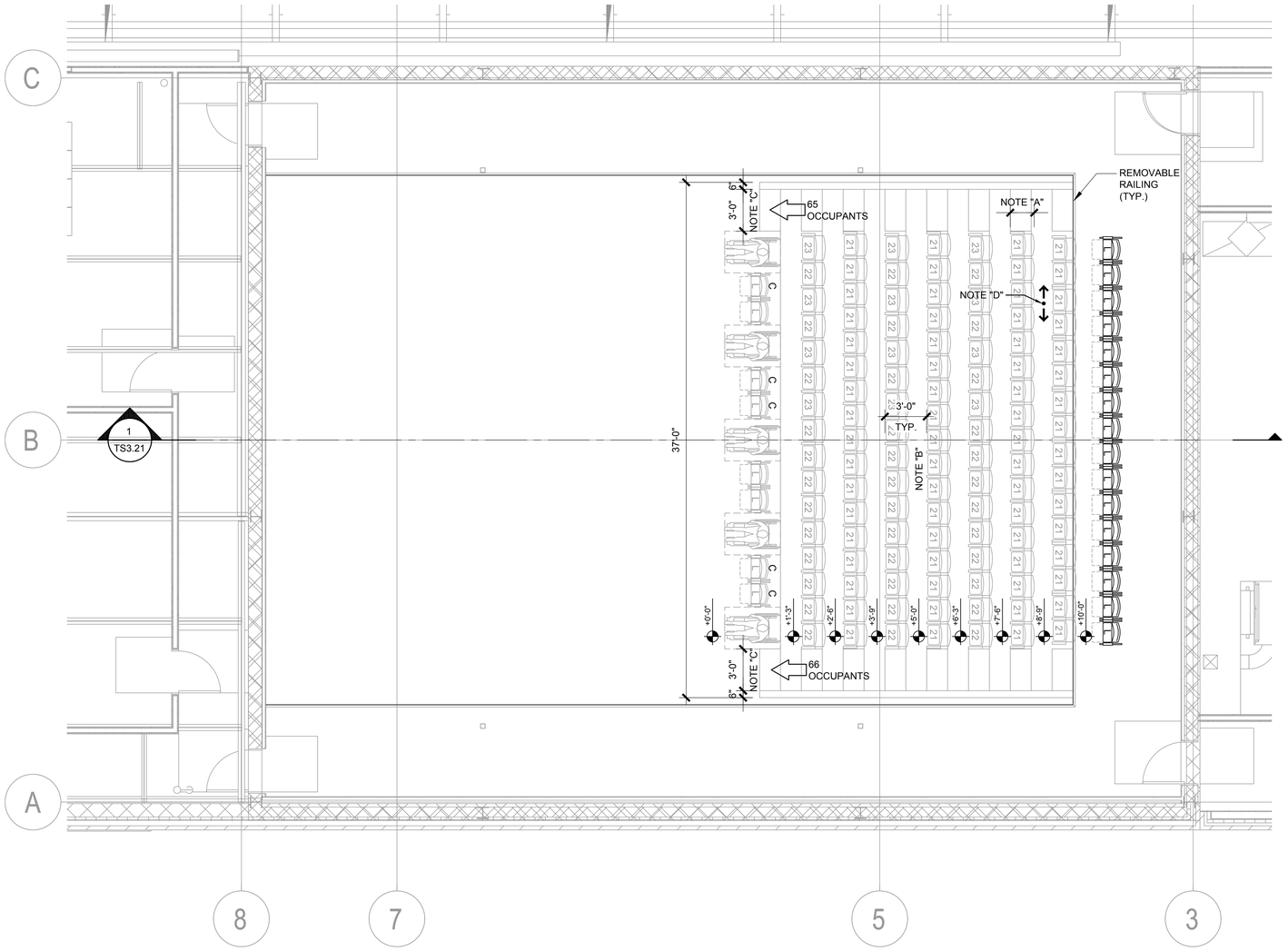


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1/4"=1'-0"

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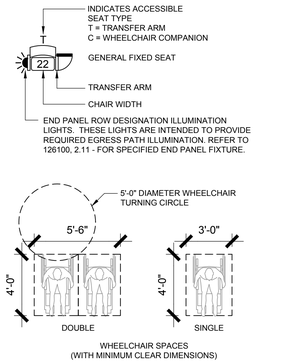


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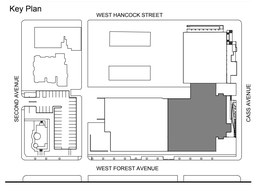
DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL SEATING LAYOUT PLAN - STUDIO THEATRE, CONTROL ROOM LEVEL

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

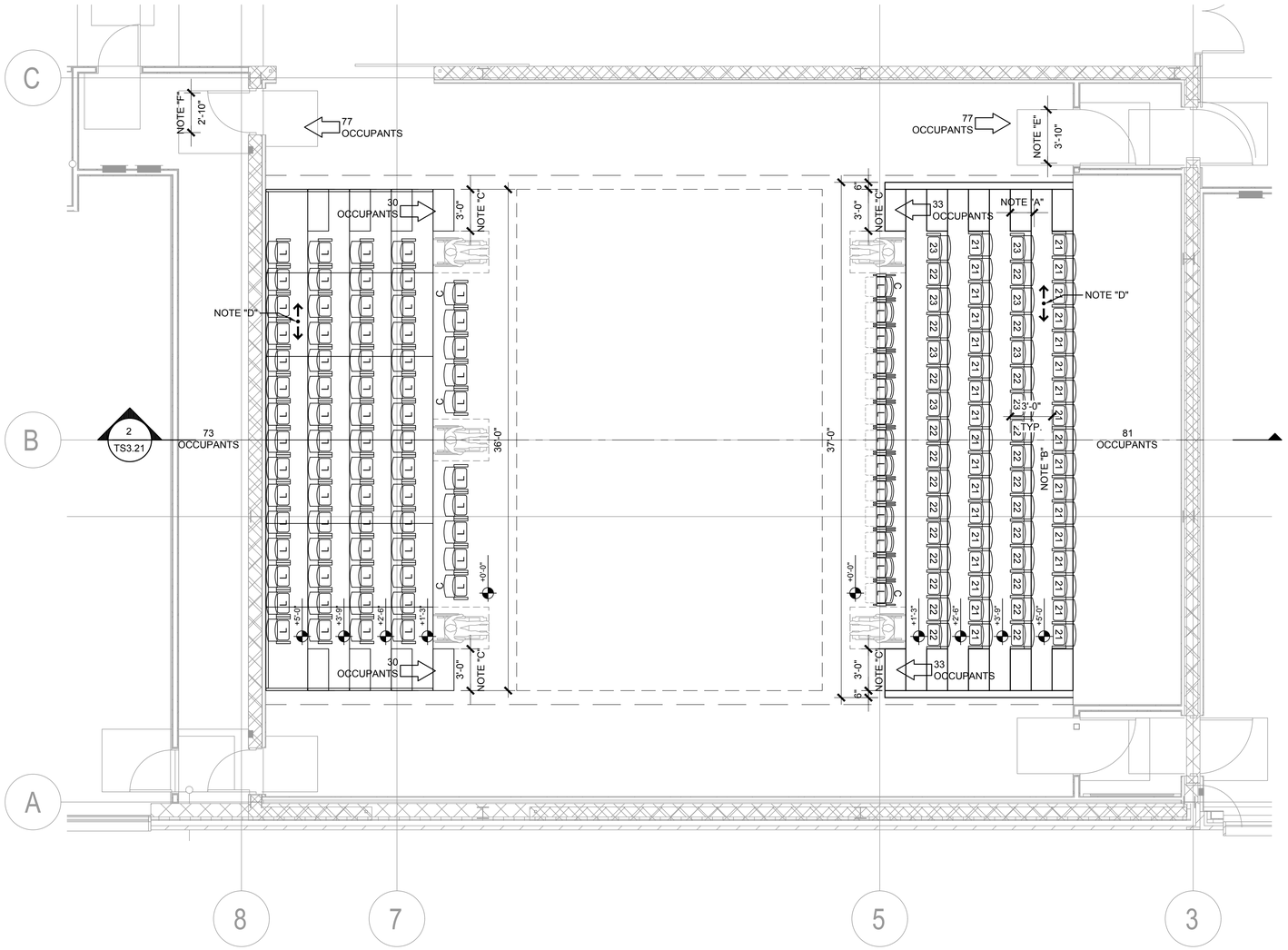
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TS1.22B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL SEATING LAYOUT PLAN - STUDIO THEATRE, LEVEL ONE - ALLEY CONFIGURATION
1/4"=1'-0"

## CODE COMPLIANCE NOTES

CODES REFERENCED ARE:
INTERNATIONAL BUILDING CODE 2015 EDITION
ICC 300 2012 EDITION
ICC/ANSI A117.1 - 2009 EDITION
OCCUPANCY CLASSIFICATION: ASSEMBLY GROUP A-1

NOTE "A":
IN ORDER TO COMPLY WITH CODE REQUIRED MINIMUM AISLE ACCESSWAY DIMENSIONS AND TO PROVIDE FOR PATRON COMFORT, THE MAXIMUM SEAT ENVELOPE (DIMENSION FROM FRONT OF SEAT TO BACK) SHALL NOT EXCEED 21".

NOTE "B":
SEAT SPACING FOR DUAL ACCESS ROW PER 1029.12.2.1. THE LONGEST DUAL ACCESS ROW CONTAINS 17 SEATS. 17 SEATS MINUS 14 SEATS = 3 SEAT. 12"+ (3)(0.3") = 12.9" MINIMUM AISLE ACCESSWAY REQUIRED. 36" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 15" AISLE ACCESSWAY PROVIDED.

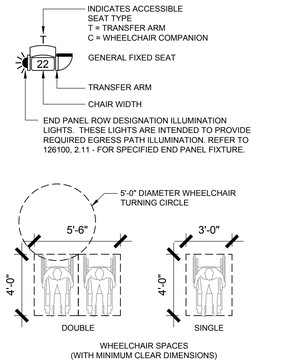
NOTE "C":
STEPPED AISLE WITH SEATING ON ONE SIDES PER SECTION 1029.6.1 PARAGRAPH 1 REQUIRES 0.3" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 33 OCCUPANTS SERVED (WORST CASE). (33)(0.3") = 9.9" CALCULATED MINIMUM REQUIRED WIDTH. PER SECTION 1029.9.1 PARAGRAPH 2 MINIMUM REQUIRED WIDTH IS 36" AND 36" IS PROVIDED.

NOTE "D":
COMMON PATH OF EGRESS TRAVEL PER SECTION 1029.8 SHALL NOT EXCEED 30 FEET FROM THE POINT WHERE THE OCCUPANT IS SEATED TO A POINT WHERE THE OCCUPANT HAS A CHOICE OF TWO DIRECTIONS OF TRAVEL TO TWO EXITS. PATRONS IN DUAL ACCESS ROWS HAVE TWO DIRECTIONS IMMEDIATELY UPON STANDING SO THE EFFECTIVE TRAVEL DISTANCE IS ZERO FEET WHICH DOES NOT EXCEED THE MAXIMUM ALLOWED.

NOTE "E":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 77 OCCUPANTS SERVED, (77)(0.20) = 15.4" CALCULATED MINIMUM REQUIRED WIDTH. 46" OF WIDTH IS PROVIDED.

NOTE "F":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 77 OCCUPANTS SERVED, (77)(0.20) = 15.4" CALCULATED MINIMUM REQUIRED WIDTH. 34" OF WIDTH IS PROVIDED.

## SEATING KEY




## GENERAL NOTES

1. SEATING LAYOUT INDICATES DESIGN INTENT ONLY. FINAL LAYOUT ON SHOP DRAWINGS INCLUDING CHAIR DIMENSIONS AND QUANTITIES ARE THE SOLE RESPONSIBILITY OF THE THEATRICAL SEATING CONTRACTOR.
2. CLEAR AISLE DIMENSIONS INDICATED ON THE DRAWINGS ARE TO BE FOLLOWED WHEN PREPARING SHOP DRAWINGS. THESE DIMENSIONS ARE BASED ON PROJECT CODE REQUIREMENTS.
3. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO PREPARATION OF SHOP DRAWINGS.
4. WHEN LAYING OUT SEATS IN ROWS WHICH CONTAIN VARYING WIDTH SEATS, ADHERE TO THE FOLLOWING GUIDELINES WHERE POSSIBLE:

   - A NARROWER SEAT IS TO BE MOUNTED ADJACENT TO AN AISLE.

   - A WIDER SEAT IS TO BE MOUNTED ADJACENT TO SIDE WALLS OR RAILINGS.

   - THE REMAINING VARYING WIDTH SEATS ARE TO BE DISTRIBUTED THROUGHOUT THE ROW SO THAT NARROW SEATS ARE NOT MOUNTED ADJACENT TO ONE ANOTHER.

   - WHERE POSSIBLE, SEATS SHOULD BE STAGGERED FROM ROW TO ROW.
5. ALL EQUIPMENT BY SEATING CONTRACTOR UNLESS OTHERWISE NOTED.
6. AISLE LIGHT FIXTURES PREWIRED BY SEATING CONTRACTOR AND TERMINATED BY DIVISION 26. AISLE LIGHT JUNCTION BOX, WIRE, AND CONDUIT PROVIDED BY DIVISION 26.
7. AISLE LIGHT TRANSFORMER(S) SUPPLIED BY SEATING CONTRACTOR AND INSTALLED BY DIVISION 26.
8. ROW LETTER AND SEAT NUMBER SCHEME SHALL BE CONFIRMED DURING THE SEATING SHOP DRAWING PROCESS.

## ACCESSIBILITY NOTES

1. WHEELCHAIR SPACES REQUIRED BY IBC 1108.2.2.1 = 5. 5 SPACES ARE PROVIDED.
2. WHEELCHAIR COMPANION SEATS ARE PROVIDED ADJACENT TO WHEELCHAIR SPACES PER IBC 1108.2.3.

## SEATING TOTALS

| | LEVEL ONE | GALLERY | OVERALL |
|---|---|---|---|
| FIXED SEATS | 66 | - | 66 |
| LOOSE SEATS | 83 | - | 83 |
| WHEELCHAIRS | 5 | - | 5 |
| TOTAL | 154 | - | 154 |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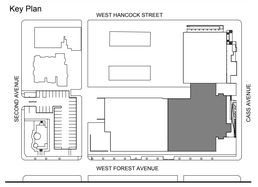
| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL SEATING LAYOUT PLAN - ALLEY STUDIO THEATRE LEVEL ONE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

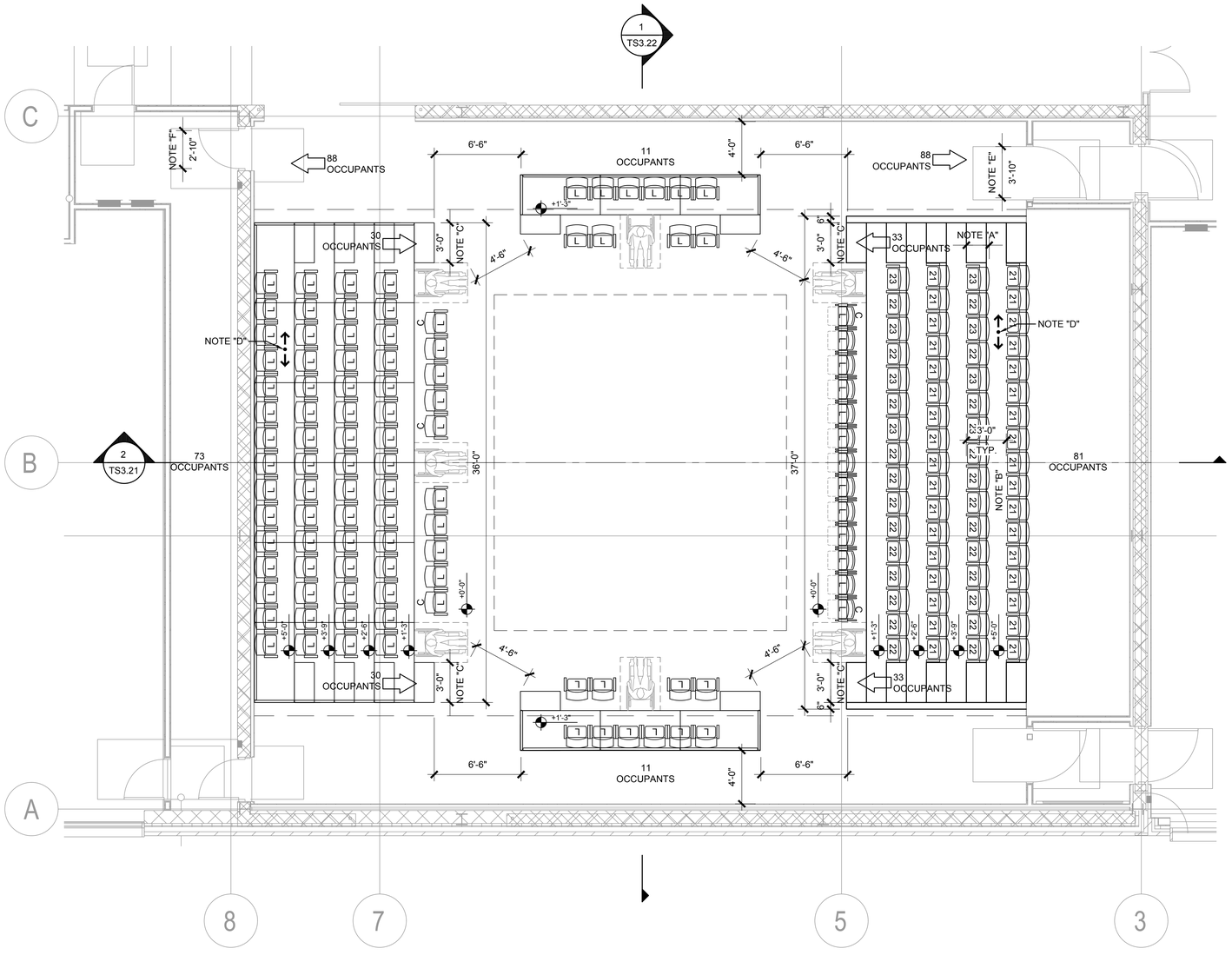
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

TS1.23B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL SEATING LAYOUT PLAN - STUDIO THEATRE, LEVEL ONE - ARENA CONFIGURATION
1/4"=1'-0"

## CODE COMPLIANCE NOTES

CODES REFERENCED ARE:
INTERNATIONAL BUILDING CODE 2015 EDITION
ICC 300 2012 EDITION
ICC/ANSI A117.1 - 2009 EDITION
OCCUPANCY CLASSIFICATION: ASSEMBLY GROUP A-1

NOTE "A":
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SEAT SPACING FOR DUAL ACCESS ROW PER 1029.12.2.1. THE LONGEST DUAL ACCESS ROW CONTAINS 17 SEATS. 17 SEATS MINUS 14 SEATS = 3 SEAT. 12"+ (3)(0.3") = 12.9" MINIMUM AISLE ACCESSWAY REQUIRED. 36" ROW TO ROW SPACING MINUS 21" SEAT ENVELOPE = 15" AISLE ACCESSWAY PROVIDED.

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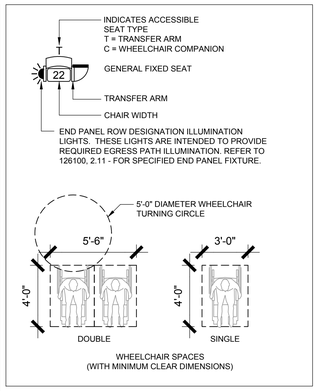
NOTE "E":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 88 OCCUPANTS SERVED, (88)(0.20) = 18.6" CALCULATED MINIMUM REQUIRED WIDTH. 46" OF WIDTH IS PROVIDED.

NOTE "F":
EGRESS DOOR PER SECTION 1005.3.2 SHALL PROVIDE 0.2" OF WIDTH FOR EACH OCCUPANT SERVED. THERE ARE 88 OCCUPANTS SERVED, (88)(0.20) = 18.6" CALCULATED MINIMUM REQUIRED WIDTH. 34" OF WIDTH IS PROVIDED.

## SEATING KEY




## GENERAL NOTES

1. SEATING LAYOUT INDICATES DESIGN INTENT ONLY. FINAL LAYOUT ON SHOP DRAWINGS INCLUDING CHAIR DIMENSIONS AND QUANTITIES ARE THE SOLE RESPONSIBILITY OF THE THEATRICAL SEATING CONTRACTOR.
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8. ROW LETTER AND SEAT NUMBER SCHEME SHALL BE CONFIRMED DURING THE SEATING SHOP DRAWING PROCESS.

## ACCESSIBILITY NOTES

1. WHEELCHAIR SPACES REQUIRED BY IBC 1108.2.2.1 = 5. 7 SPACES ARE PROVIDED.
2. WHEELCHAIR COMPANION SEATS ARE PROVIDED ADJACENT TO WHEELCHAIR SPACES PER IBC 1108.2.3.

## SEATING TOTALS

| | LEVEL ONE | GALLERY | OVERALL |
|---|---|---|---|
| FIXED SEATS | 66 | - | 66 |
| LOOSE SEATS | 103 | - | 103 |
| WHEELCHAIRS | 7 | - | 7 |
| TOTAL | 176 | - | 176 |

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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
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| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
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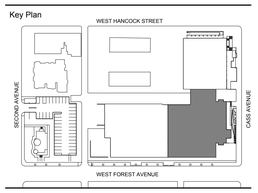
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI

Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL SEATING LAYOUT PLAN - ARENA STUDIO THEATRE LEVEL ONE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

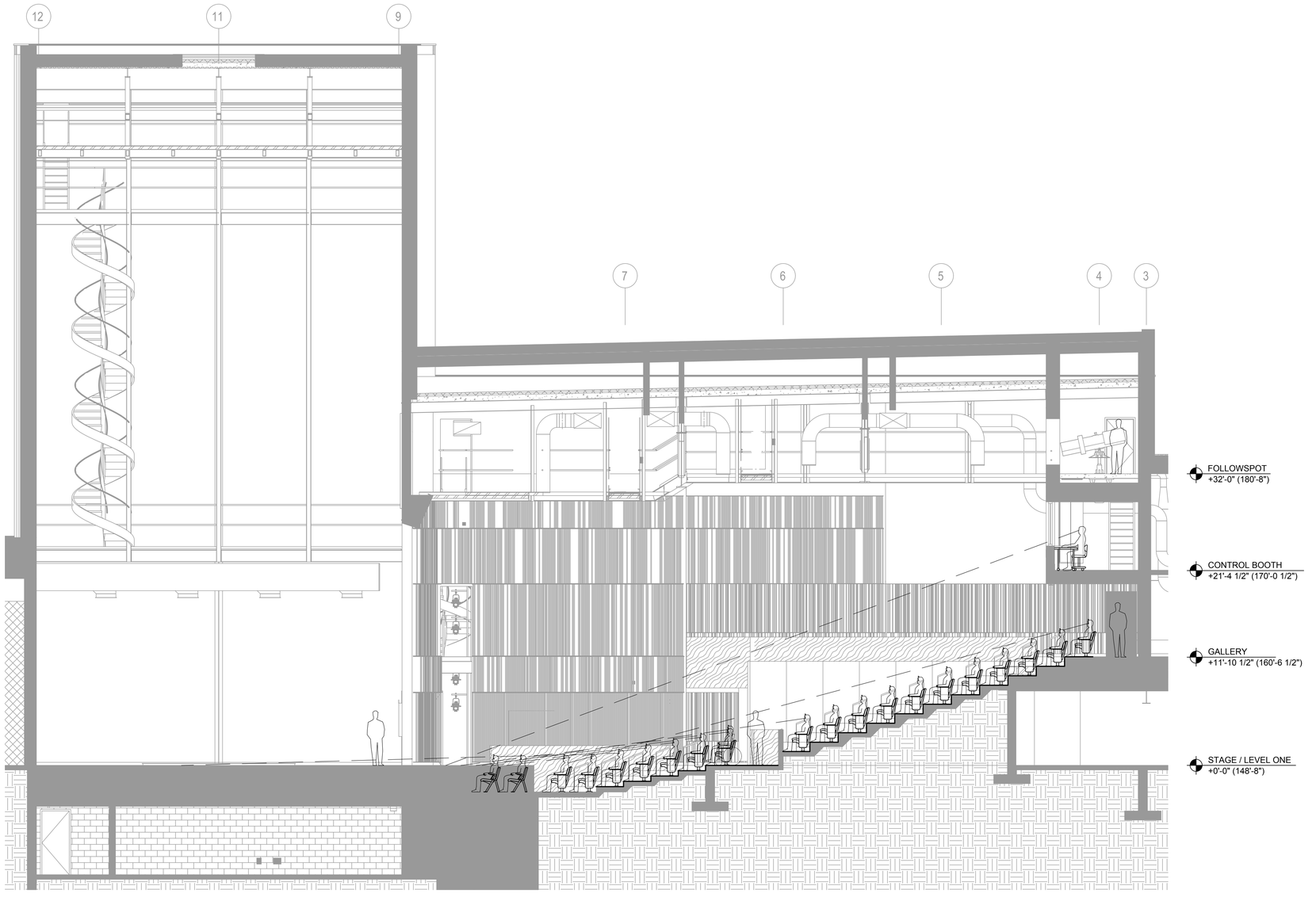
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

Drawing No:

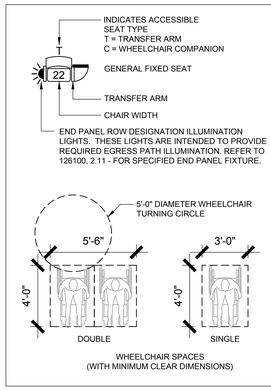
TS1.24B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL SEATING CENTERLINE SECTION - PROSCENIUM THEATRE
3/16"=1'-0"

## SEATING KEY




## GENERAL NOTES

1. SEATING LAYOUT INDICATES DESIGN INTENT ONLY. FINAL LAYOUT ON SHOP DRAWINGS INCLUDING CHAIR DIMENSIONS AND QUANTITIES ARE THE SOLE RESPONSIBILITY OF THE THEATRICAL SEATING CONTRACTOR.
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7. AISLE LIGHT TRANSFORMER(S) SUPPLIED BY SEATING CONTRACTOR AND INSTALLED BY DIVISION 26.
8. ROW LETTER AND SEAT NUMBER SCHEME SHALL BE CONFIRMED DURING THE SEATING SHOP DRAWING PROCESS.


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| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
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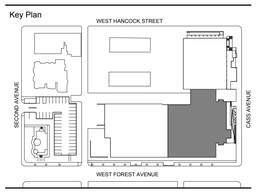
DETROIT, MI


Key Plan

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|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

## THEATRICAL SEATING CENTERLINE SECTION - PROSCENIUM THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

Seal:

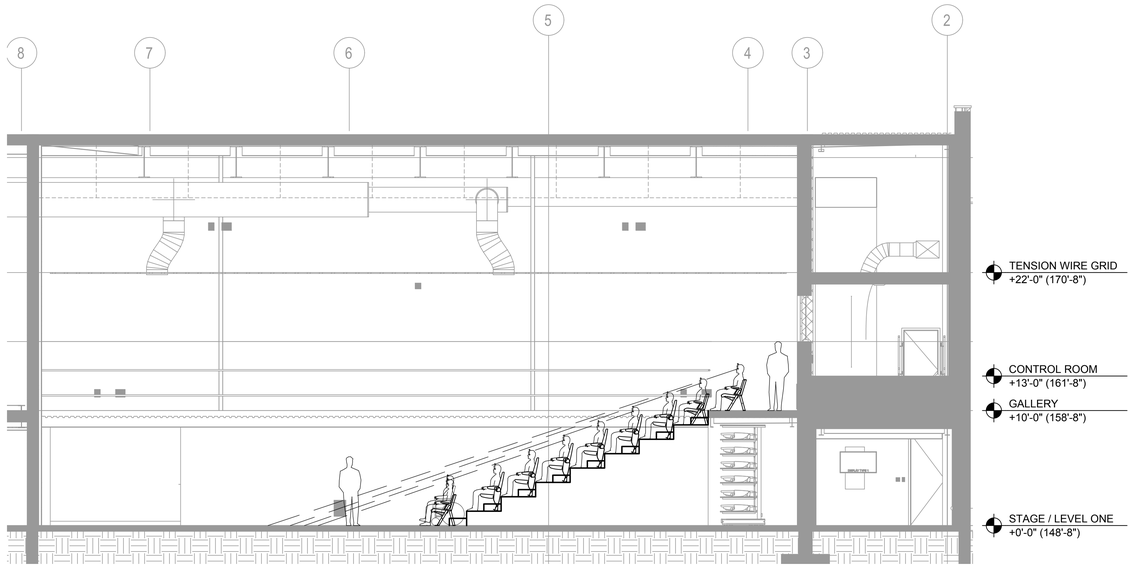
FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

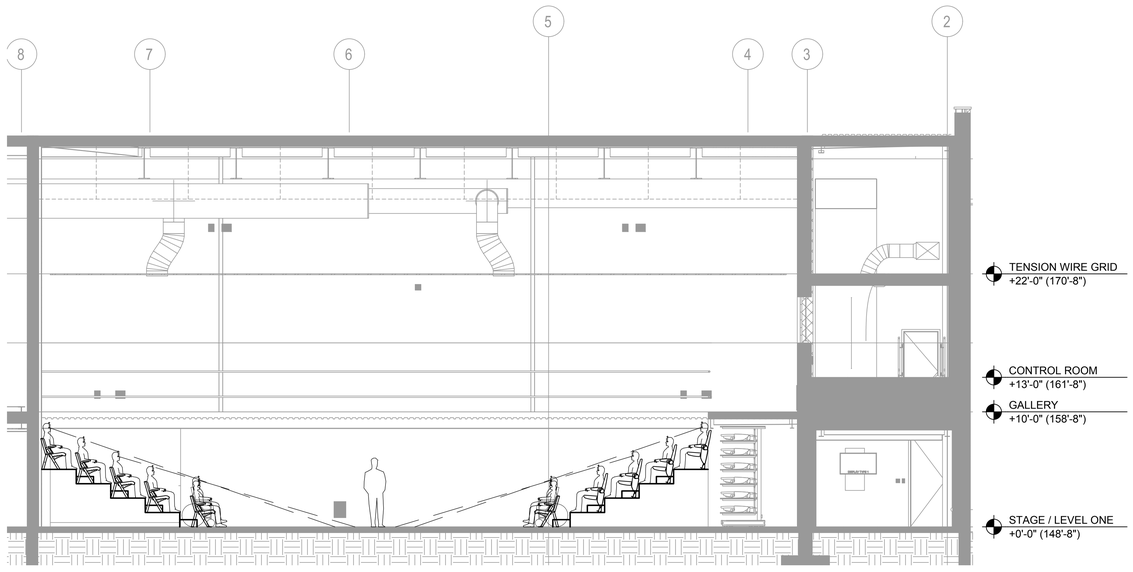
Drawing No:

# TS3.11B

Sheet Size: 30" x 42"
: Template Version

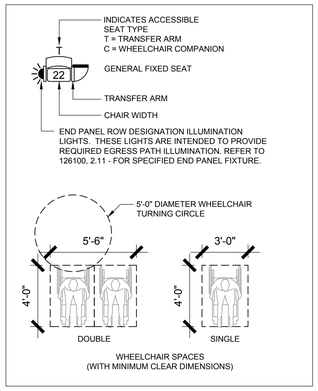



1 THEATRICAL SEATING CENTERLINE SECTION - STUDIO THEATRE - ENDSTAGE CONFIGURATION
3/16"=1'-0"




2 THEATRICAL SEATING CENTERLINE SECTION - STUDIO THEATRE - ALLEY/ARENA CONFIGURATION
3/16"=1'-0"

## SEATING KEY




## GENERAL NOTES

1. SEATING LAYOUT INDICATES DESIGN INTENT ONLY. FINAL LAYOUT ON SHOP DRAWINGS INCLUDING CHAIR DIMENSIONS AND QUANTITIES ARE THE SOLE RESPONSIBILITY OF THE THEATRICAL SEATING CONTRACTOR.
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WAYNE STATE UNIVERSITY

| | |
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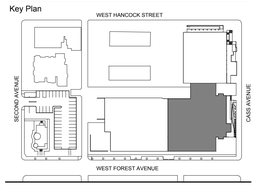
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
| Acoustics | Jaffe Holden<br>114-A Washington Street<br>Norwalk, CT 06864<br>203.838.4168 |

DETROIT, MI


Key Plan




| | |
|---|---|
| 100% DESIGN DEVELOPMENT | JAN 30, 2019 |

Project
WSU - GATEWAY THEATER COMPLEX
WSU PROJECT NO. 189-178578

Drawing Title
THEATRICAL SEATING CENTERLINE SECTION - STUDIO THEATRE

Project Number: 3995-001-00

Drawn By: APF

Scale: AS NOTED

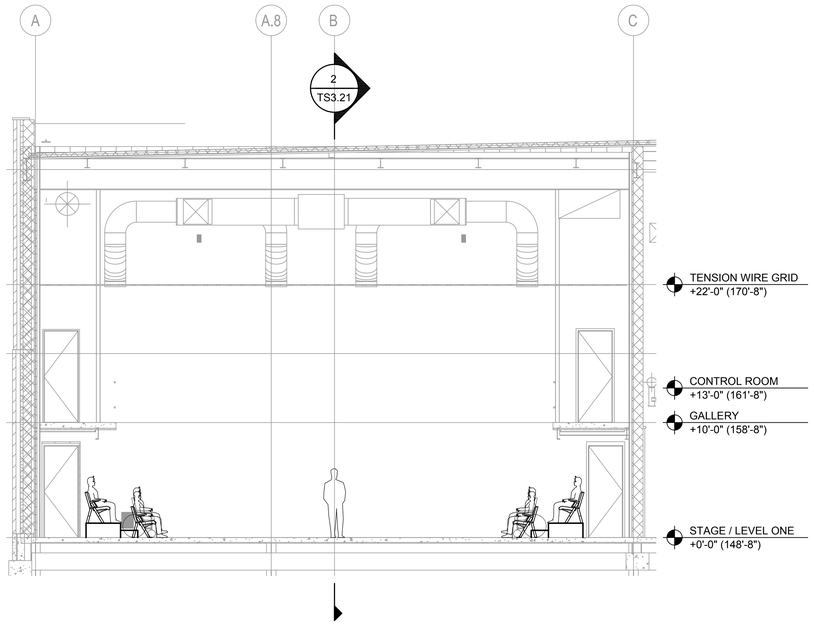
Seal:

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Signature:

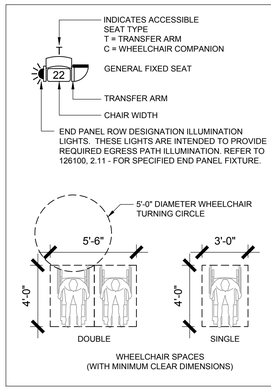
Drawing No:
TS3.21B

Sheet Size: 30" x 42"
: Template Version




1 THEATRICAL SEATING TRANSVERSE SECTION - STUDIO THEATRE - ARENA CONFIGURATION
3/16"=1'-0"

## SEATING KEY




## GENERAL NOTES

1. SEATING LAYOUT INDICATES DESIGN INTENT ONLY. FINAL LAYOUT ON SHOP DRAWINGS INCLUDING CHAIR DIMENSIONS AND QUANTITIES ARE THE SOLE RESPONSIBILITY OF THE THEATRICAL SEATING CONTRACTOR.
2. CLEAR AISLE DIMENSIONS INDICATED ON THE DRAWINGS ARE TO BE FOLLOWED WHEN PREPARING SHOP DRAWINGS. THESE DIMENSIONS ARE BASED ON PROJECT CODE REQUIREMENTS.
3. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO PREPARATION OF SHOP DRAWINGS.
4. WHEN LAYING OUT SEATS IN ROWS WHICH CONTAIN VARYING WIDTH SEATS, ADHERE TO THE FOLLOWING GUIDELINES WHERE POSSIBLE:

   - A NARROWER SEAT IS TO BE MOUNTED ADJACENT TO AN AISLE.

   - A WIDER SEAT IS TO BE MOUNTED ADJACENT TO SIDE WALLS OR RAILINGS.

   - THE REMAINING VARYING WIDTH SEATS ARE TO BE DISTRIBUTED THROUGHOUT THE ROW SO THAT NARROW SEATS ARE NOT MOUNTED ADJACENT TO ONE ANOTHER.

   - WHERE POSSIBLE, SEATS SHOULD BE STAGGERED FROM ROW TO ROW.
5. ALL EQUIPMENT BY SEATING CONTRACTOR UNLESS OTHERWISE NOTED.
6. AISLE LIGHT FIXTURES PREWIRED BY SEATING CONTRACTOR AND TERMINATED BY DIVISION 26. AISLE LIGHT JUNCTION BOX, WIRE, AND CONDUIT PROVIDED BY DIVISION 26.
7. AISLE LIGHT TRANSFORMER(S) SUPPLIED BY SEATING CONTRACTOR AND INSTALLED BY DIVISION 26.
8. ROW LETTER AND SEAT NUMBER SCHEME SHALL BE CONFIRMED DURING THE SEATING SHOP DRAWING PROCESS.


HamiltonAnderson
architecture landscape architecture urban design

HGA

WAYNE STATE UNIVERSITY

| | |
|---|---|
| Owner | Wayne State University FP&M<br>5454 Cass Ave<br>Detroit, MI 48202<br>313.577.2424 |
| Contractor | Walbridge<br>777 Woodward Ave. Suite 300<br>Detroit, MI 48202<br>313.963.8000 |
| Executive Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Design Architect | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| MEP Engineer | HGA<br>420 5th Street N, Suite 100<br>Minneapolis, MN 55401<br>612.758.4000 |
| Structural Engineer | DESI / NASR Consulting Engineers<br>6765 Daly Road<br>West Bloomfield, MI 48322<br>248.392.2010 |
| Civil Engineer | Spalding DeDecker<br>905 South Blvd East<br>Rochester Hills, MI 48307<br>800.598.1600 |
| Landscape Architect | Hamilton Anderson<br>1435 Randolph Street, Suite 200<br>Detroit, MI 48226<br>313.964.0270 |
| Theatrical | Auerbach Pollock Friedlander<br>266 West 37th Street<br>New York, NY 10018<br>212.764.5630 |
| Lighting | Auerbach Glasow<br>1045 Sansome Street, Suite 300<br>San Fransisco, CA 94111<br>415.392.7528 |
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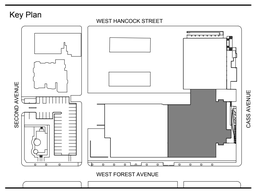


100% DESIGN DEVELOPMENT — JAN 30, 2019

Project

# WSU - GATEWAY THEATER COMPLEX

WSU PROJECT NO. 189-178578

Drawing Title

# THEATRICAL SEATING TRANSVERSE SECTION - STUDIO THEATRE

Project Number: 3995-001-00

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