

# WAYNE STATE UNIVERSITY

WAYNE STATE UNIVERSITY FP&M

## SCHOOL OF SOCIAL WORK

5447 WOODWARD  
DETROIT, MI 48202

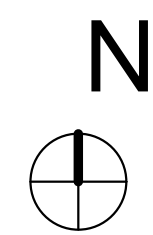
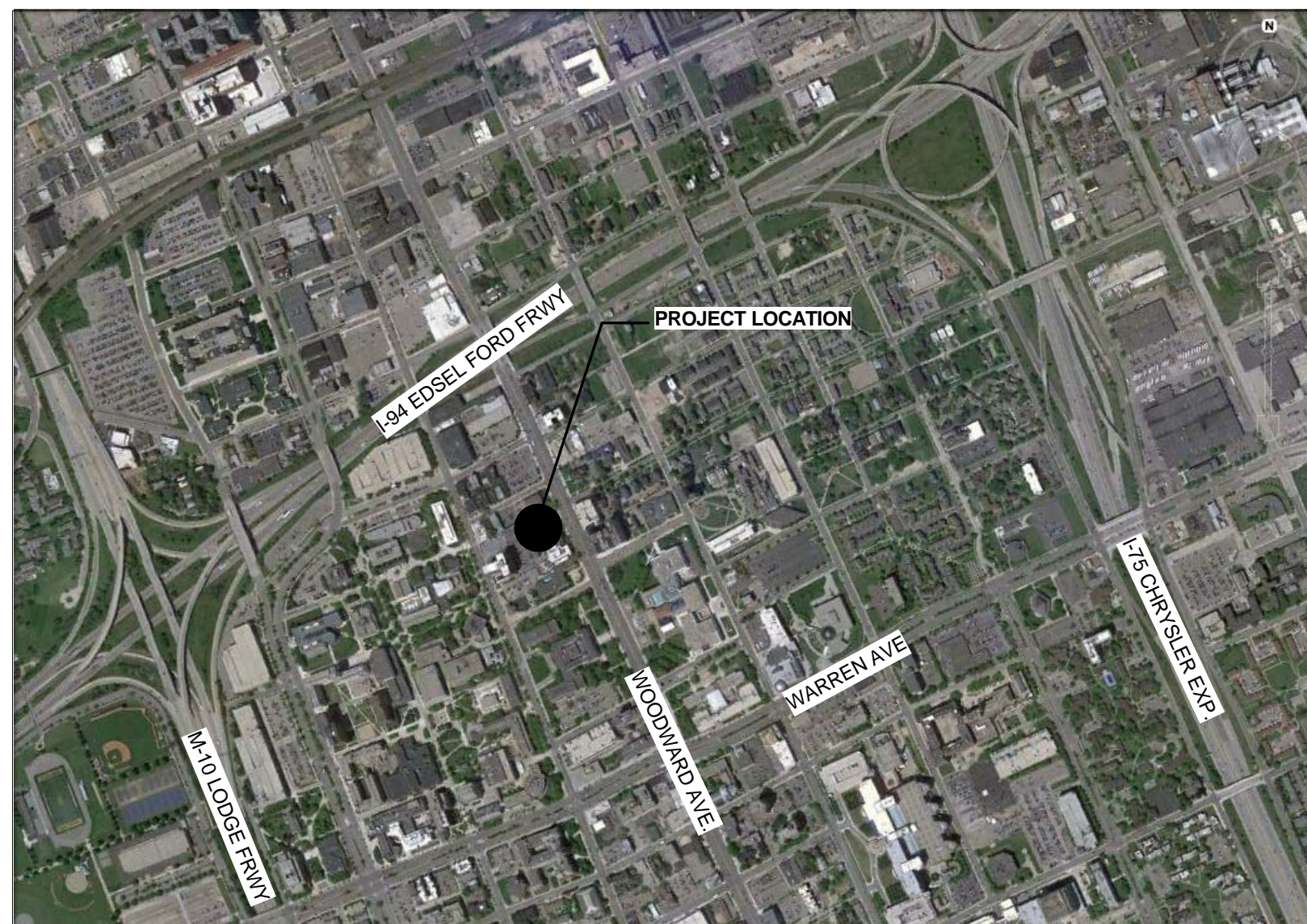
ADDENDUM 1 - 20 January 2015

HAMILTON ANDERSON PROJECT NUMBER: 2013088.01  
WAYNE STATE UNIVERSITY PROJECT NUMBER: 063-233732

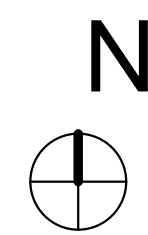
**HamiltonAnderson**  
architecture landscape architecture urban design

Hamilton Anderson Associates, Inc  
1435 Randolph Suite 200  
Detroit, Michigan 48226  
p 313 964 0270 f 313 964 0170  
www.hamilton-anderson.com

LOCATION MAP:



SITE MAP:



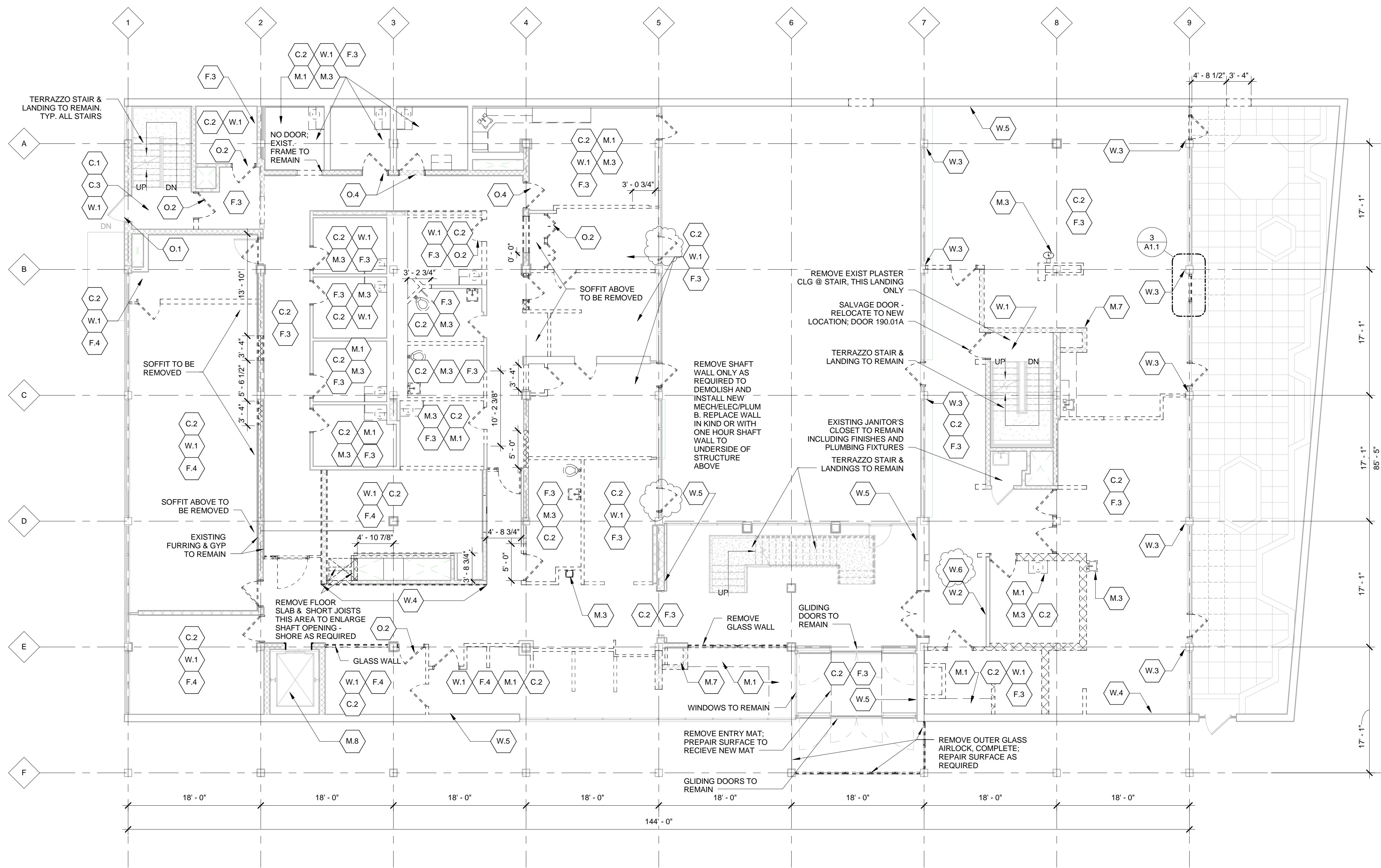
PROJECT CONTACTS:

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Wayne State University  
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5454 Cass Avenue  
Detroit, MI 48202

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ENGINEERS  
6765 DALY RD  
WEST BLOOMFIELD, MI 48322  
313.932.2010  
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NOTE:  
OWNER IS RESPONSIBLE FOR HAZARDOUS MATERIAL  
REMEDATION TO BE COMPLETED PRIOR TO THE START OF  
GENERAL DEMOLITION.

**DEMOLITION GENERAL NOTES**

- 1. CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.
- 2. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS.
- 3. VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION, NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.
- 4. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS AND OTHER CONTRACTORS RETAINED BY THE OWNER.
- 5. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
- 6. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION & CONSTRUCTION.
- 7. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.
- 8. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.
- 9. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.
- 10. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.
- 11. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.
- 12. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.
- 13. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)
- 14. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

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West Bloomfield, MI 48322  
248.932.2010



Client  
**WAYNE STATE UNIVERSITY  
FP&M**  
5454 Cass Avenue  
Detroit, Michigan

Key Plan

**FIRST FLOOR DEMOLITION PLAN**  
1/8" = 1'-0"  
0 4' 8' 16'

**DEMOLITION SCOPE**

**CEILINGS:**

- C.1 WHERE CEILING IS INDICATED TO REMAIN: REMOVE ALL CEILING MOUNTED EQUIPMENT. REMOVE DUST, DIRT AND DEBRIS. REMOVE ALL LOOSE AND PEELING PAINT FROM PLASTER OR GYP BOARD CEILINGS BY SCRAPING.
- C.2 REMOVE ALL CEILINGS & SOFFITS UNLESS OTHERWISE INDICATED: REMOVE ALL CEILING MOUNTED EQUIPMENT, RAILS, LIGHTS, GRILLES, PANELS, TILES, FRAMING AND SUSPENSION SYSTEMS. REMOVE ALL ORIGINAL PLASTER AND LATH CEILINGS TO EXPOSE CONCRETE STRUCTURE.
- C.3 PLASTER CEILINGS IN STAIRWELLS AND LANDINGS TO REMAIN. U.N.O.

**WALLS:**

- W.1 WHERE COLUMNS AND EXISTING PLASTER, GYP BOARD, CMU OR CONCRETE WALLS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.
- W.2 WHERE TILE ON WALLS OR COLUMNS IS INDICATED TO REMAIN, GENTLY CLEAN WITH WATER AND DETERGENT.
- W.3 REMOVE EXISTING TILE AND GROUT FROM WALLS
- W.4 REMOVE EXISTING WALL PANELS AND FASTENERS. PATCH ALL HOLES AND PREP WALL FOR NEW FINISH.
- W.5 EXISTING BRICK WALL TO REMAIN. REMOVE ANY ITEMS AFFIXED TO WALL
- W.6 FEATURE WALL TO REMAIN; GENTLY CLEAN HAND PAINTED TILES

**FLOORS:**

- F.1 EXISTING VINYL/RESILIENT OR LINOLEUM TILE INDICATED TO REMAIN: REMOVE ALL DEBRIS, DUST AND DIRT. CLEAN WITH WATER AND DETERGENT. PREPARE SURFACE FOR NEW FINISH.
- F.2 REMOVE ALL EXISTING CERAMIC OR CLAY TILE FLOORS AND BASE DOWN TO STRUCTURAL SLAB. PREPARE SURFACE FOR NEW FINISH.
- F.3 REMOVE EXISTING WALL BASE, AND REMOVE FLOOR FINISH DOWN TO STRUCTURAL SLAB. PREPARE FLOOR FOR NEW FINISH.
- F.4 REMOVE ALL CARPET, WALL BASE AND ADHESIVE DOWN TO STRUCTURAL SLAB.

**OPENINGS:**

- O.1 WHERE EXISTING PAINTED AND FRAMED DOORS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED IN THE DOOR SCHEDULE.
- O.2 REMOVE DOOR, HARDWARE AND FRAME IN ITS ENTIRETY. REMOVE SIDELIGHTS & TRANSOMS WHERE APPLICABLE.
- O.3 WHERE WINDOWS ARE INDICATED TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.
- O.4 REMOVE DOOR, FRAME TO REMAIN. REPLACE SOLID TRANSOM PANELS WITH GLASS WHERE APPLICABLE.
- O.5 EXISTING STAINED DOORS ARE TO BE REMOVED & NUMBERED FOR REINSTALLATION OR RELOCATION. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED, PREP AND REFINISH DOOR.
- O.6 REMOVE INDICATED PORTION OF THE PARTITION FOR INSTALLATION OF NEW LINTEL AND FRAME; SEE DOOR SCHEDULE SHEET A7.1.0 FOR DOOR SIZES AND SHEET A7.4.2 FOR NEW LINTEL.

**MISC.:**

- M.1 ALL CABINETRY AND MILLWORK IS TO BE REMOVED IN ITS ENTIRETY.
- M.2 REMOVE PLUMBING, KITCHEN EQUIPMENT, CABINETS AND COUNTER TOPS COMPLETE
- M.3 ALL SINKS, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, TUB SHOWERS AND WALL MOUNTED TOILET ROOM ACCESSORIES ARE TO BE REMOVED. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- M.4 REMOVE TOILET PARTITIONS AND SUPPORTS
- M.5 REMOVE LOCKERS & RAISED BASE
- M.6 REMOVE WOOD CUBBIES
- M.7 REMOVE DUMBWAITER AND SHAFT
- M.8 REMOVE MECHANICAL SHAFT: FILL HOLES IN CONCRETE SLAB ABOVE &/OR BELOW; SEE SHEET A7.5.2

**DEMOLITION LEGEND**

- REMOVE WALL COMPLETE
- EXISTING STUD CONSTRUCTION TO REMAIN
- EXISTING CMU CONSTRUCTION TO REMAIN
- REMOVE DOOR, FRAME, AND HARDWARE COMPLETE
- EXISTING DOOR AND FRAME TO REMAIN
- TERRAZZO STAIR / LANDING

**MISC. CONT.:**

- M.9 PER ELEVATOR CONTRACTOR, REMOVE SELECTIVE ELEVATOR EQUIPMENT & CAB FOR REPLACEMENT INCLUDING:  
1. POWER UNITS, CONTROLLER, PUMP UNIT, DOOR OPERATOR, HATCH DOOR EQUIPMENT AND RELATED EQUIPMENT/FIXTURES  
2. CAB ALTERNATIVES:  
A. REMOVE EXISTING CAB FOR REPLACEMENT  
B. NEW CAB INTERIOR ONLY  
3. PROVIDE AN ALTERNATIVE FOR REMOVING & REPLACING THE JACK ASSEMBLY

**GENERAL:**

- 1. ALL SURFACES THAT ARE TO REMAIN ARE TO BE CLEANED W/ WATER & DETERGENT PRIOR TO INSTALLATION OF NEW FINISHES
- 2. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- 3. WHEN REMOVING MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, REMOVE ALL ASSOCIATED FASTENERS, CABLE, RODS, ETC.

ADDENDUM 1	
FOR BIDS	20 JAN 2015
98% CONSTRUCTION DOCUMENTS	19 DEC 2014
50% CONSTRUCTION DOCUMENTS	26 NOV 2014
DESIGN DEVELOPMENT	31 OCT 2014
SCHEMATIC DESIGN	08 OCT 2014
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Project  
**SCHOOL OF SOCIAL  
WORK**  
5447 Woodward, Detroit, MI  
Drawing Title  
**FIRST LEVEL  
DEMOLITION PLAN**

Project Number: 2013088.01 WSU Project No: 063-233732  
Drawn By: JF Approved By: RH  
Scale: 1/8" = 1'-0"  
Seal:

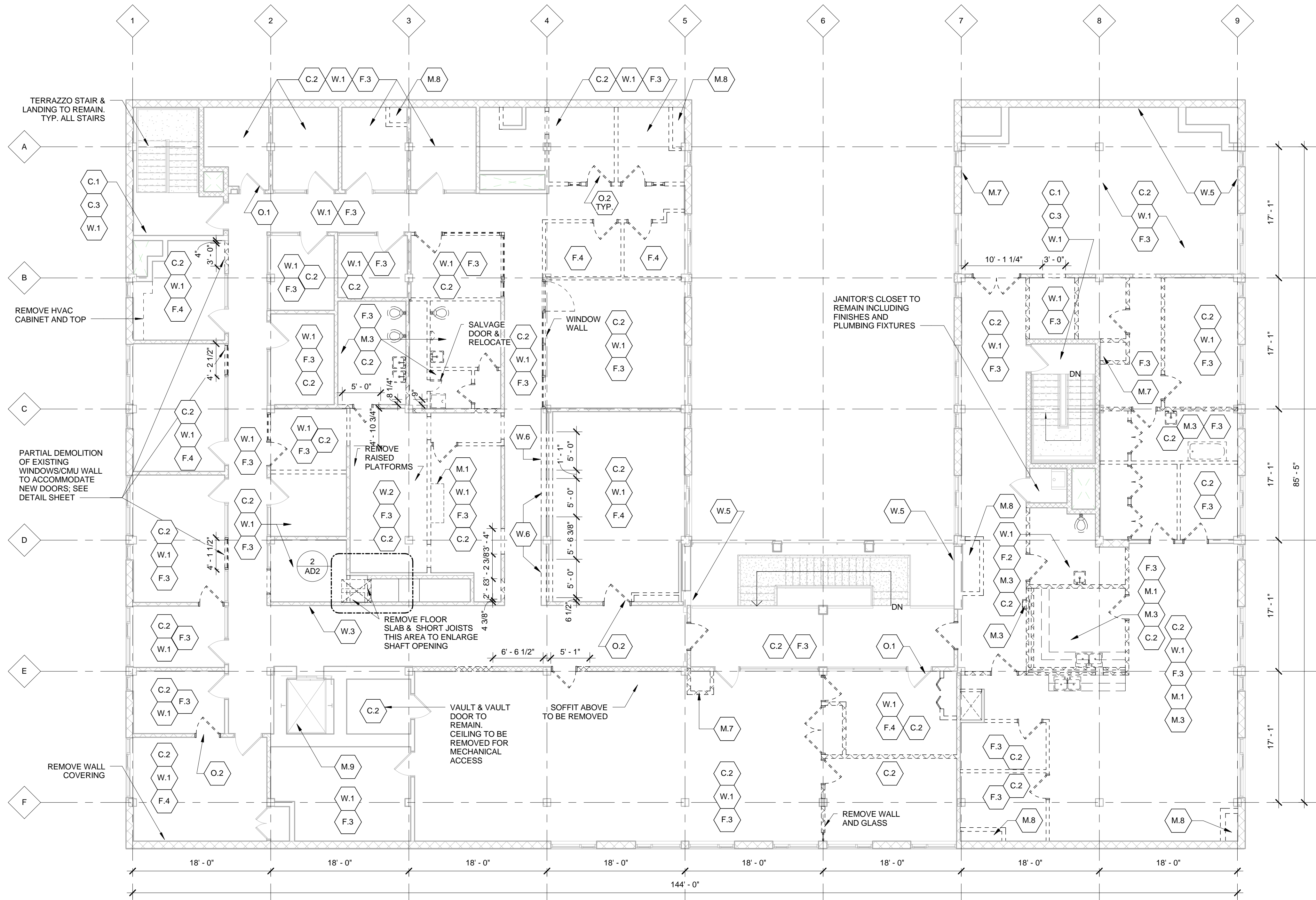
Signature: \_\_\_\_\_  
Drawing No:

**AD1**

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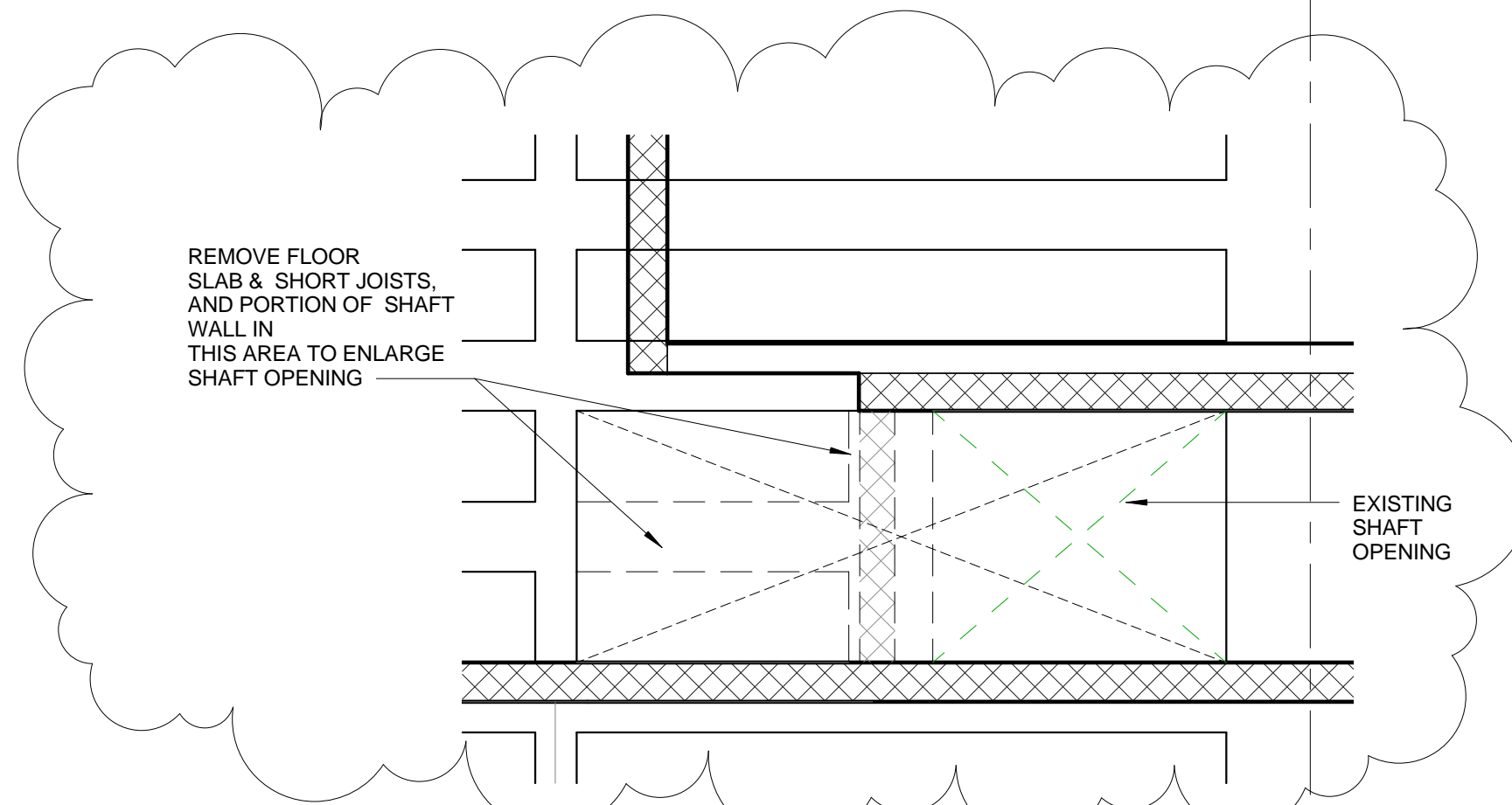
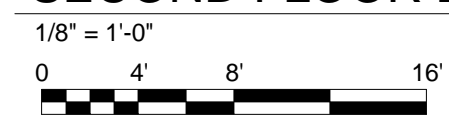
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SECOND FLOOR DEMOLITION PLAN



ENLARGED SHAFT OPENING DEMO PLAN

1/2" = 1'-0"

DEMOLITION SCOPE

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ADDENDUM 1 FOR BIDS 20 JAN 2015  
98% CONSTRUCTION DOCUMENTS 19 DEC 2014  
50% CONSTRUCTION DOCUMENTS 26 NOV 2014  
DESIGN DEVELOPMENT 31 OCT 2014  
SCHEMATIC DESIGN 08 OCT 2014  
26 AUG 2014

Project  
SCHOOL OF SOCIAL WORK  
5447 Woodward, Detroit, MI

Drawing Title  
SECOND LEVEL DEMOLITION PLAN

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: JF Approved By: RH

Scale: As indicated

Seal:

Signature: \_\_\_\_\_

Drawing No:

AD2

# WAYNE STATE UNIVERSITY

Client  
**WAYNE STATE UNIVERSITY**  
**FP&M**  
5454 Cass Avenue  
Detroit, Michigan  
Key Plan

## FLOOR PLAN LEGEND

- LIMIT OF WORK
- FLOOR DRAIN
- ELECTRICAL/TELECOM FLOOR BOX
- FEC FIRE EXTINGUISHER CABINET, RE: AGO.1
- FE WALL MTD FIRE EXTINGUISHER, RE: AGO.1
- ES TACTILE EXIT SIGN
- OL OCCUPANT LOAD SIGN
- EV EVACUATION SIGN
- EXISTING WALL
- NEW PARTITION WALL
- EXISTING MASONRY WALL
- ADD ALTERNATE 1
- ADD ALTERNATE 2
- NEW DOOR
- EXISTING DOOR

## 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. NEW CONSTRUCTION PARTITIONS THAT CONNECT W/ END OF AN EXISTING PARTITION TO BE FLUSH WITH EXISTING UNO.
5. OPENING DIMS ARE FINISH SURFACE CLEAR DIMENSIONS
6. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UNO.
7. NEW PARTITIONS WILL BE TYPE A30 WITH ACOUSTICAL INSULATION UNO.
8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES
9. MAINTAIN 1-HR FIRE RATING @ EXISTING SHAFT WALLS W/ NEW OPENINGS & @ EXISTING SHAFT OPENINGS TO BE CLOSED. SEE SHT A7.4.1 FOR PARTITION TYPE 'J' - 1-HR RATED SHAFTWALL
10. REFER TO SHEET A7.3 FOR FIRESTOPPING AND PENETRATION DETAILS
11. REFER TO SHEET AGO.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE @ DOORS, & CLEAR FLOOR SPACE @ PLUMBING FIXTURES
12. REFER TO SHEET A7.2 FOR WALL REINFORCING DTLS - PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT, GRAB BARS, & DOOR BUMPERS
13. PROVIDE GLASSMATT BACKER AT ALL TOILET ROOM TILE WALLS.
14. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS
15. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS & SIZES
16. PER ELEVATOR CONTRACTOR, REMOVE SELECTIVE ELEVATOR EQUIP FOR REPLACEMENT INCLUDING:
  - A. POWER UNITS, CONTROLLER, PUMP UNIT, DOOR OPERATOR, HATCH DOOR EQUIPMENT AND RELATED EQUIPMENT/FIXTURES. PROVIDE NEW SUMP PIT AND LADDER.
  - B. CAB:
    - a. REMOVE EXISTING CAB FOR REPLACEMENT
    - b. NEW CAB INTERIOR ONLY
  - C. ALTERNATE 3: REMOVE EXISTING ELEVATOR & REPLACE WITH A NEW HOLELESS HYDRAULIC ELEVATOR, LOWER PIT AND RAISE ROOF. SEE SHEET A7.5.2 FOR DETAILS.
17. CLEAN AND REPAIR EXIST'G CONSTRUCTION TO REMAIN.
18. CLEAN EXIST'G WINDOWS, FRAMES & REPAIR HARDWARE.
19. PROVIDE LINTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A7.5.2 FOR DETAILS.
20. PROVIDE UNDERLAVATORY GUARDS @ EXPOSED PLUMBING IN ALL PUBLIC WASHROOMS
21. REFER TO SHEET A7.7.1 FOR MATERIAL INDEX
22. REFER TO SHEET A7.7.2 FOR ROOM FINISH SCHEDULE
23. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE BEEN REMOVED AS REQUIRED FOR WORK.
24. PATCH ALL HOLES IN EXIST'G PARTITIONS & WALLS THAT ARE TO BE EXPOSED BY NEW WORK FROM REMOVED FURRING, BRACKETS, CABINETS, MECHANICAL OR ELECTRICAL EQUIPMENT.
25. EXCEPT IN STAIR WELLS AND MECH/ELEC RMS, ALL CMU WALLS WILL BE FURRED OUT WITH WALL TYPE "G" OR "H" UNLESS NOTED OTHERWISE. FURRING TYPE IS BASED ON ELECTRICAL OUTLETS.
26. EXISTING PLASTER COLUMNS TO REMAIN EXPOSED WILL BE FINISHED IN KIND FROM FLOOR TO CEILING WHERE REMOVAL OF CEILING AND OR HVAC PLENUM EXPOSES UNFINISHED PORTIONS OF COLUMN

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**FIRST LEVEL FLOOR PLAN**

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Drawn By: CB Approved By: RH

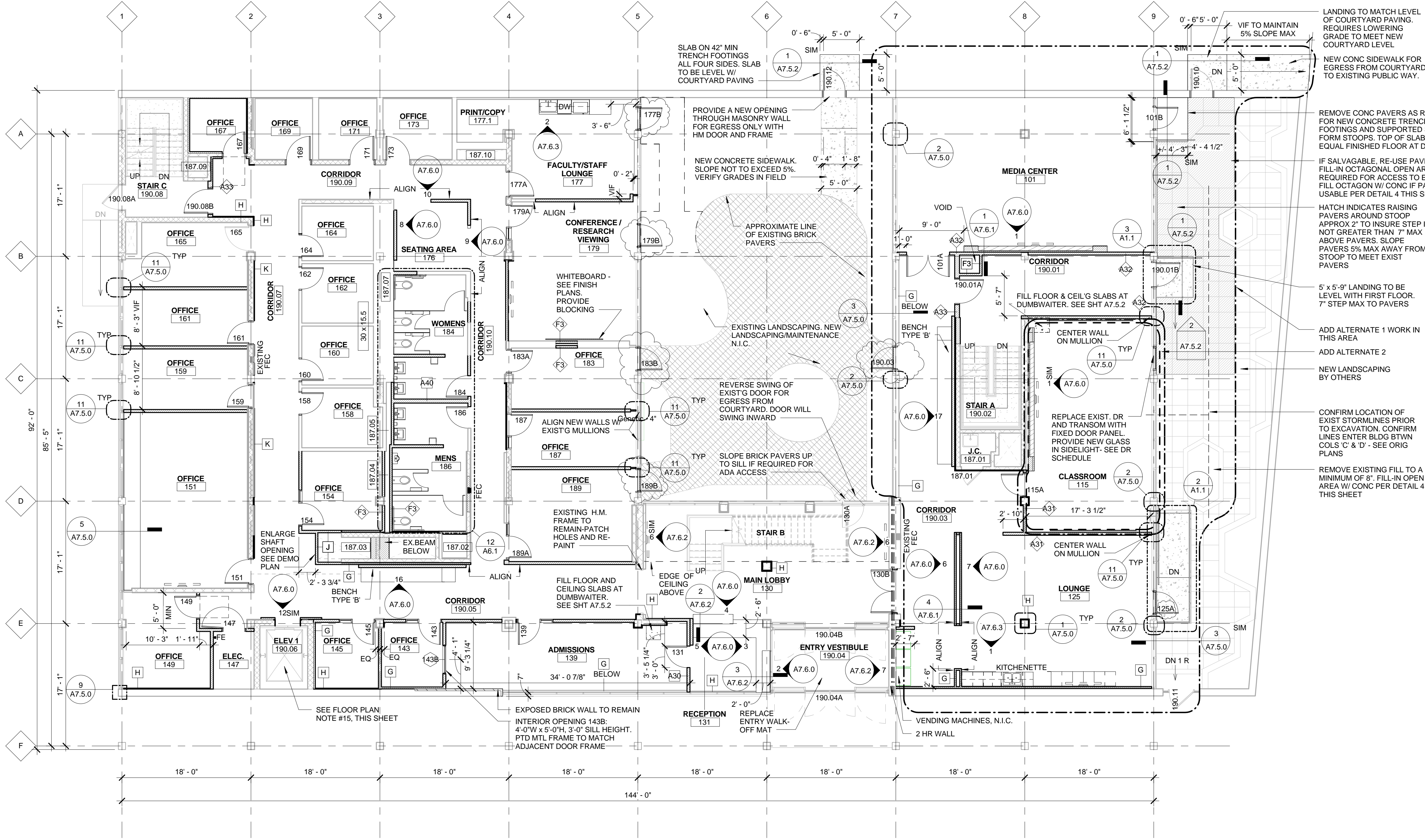
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Seal:

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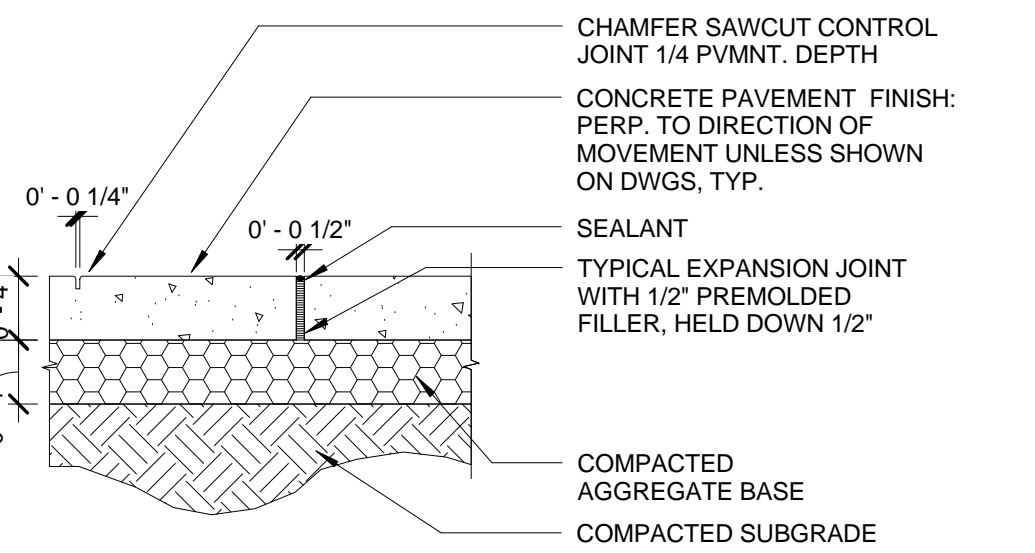
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# A1.1

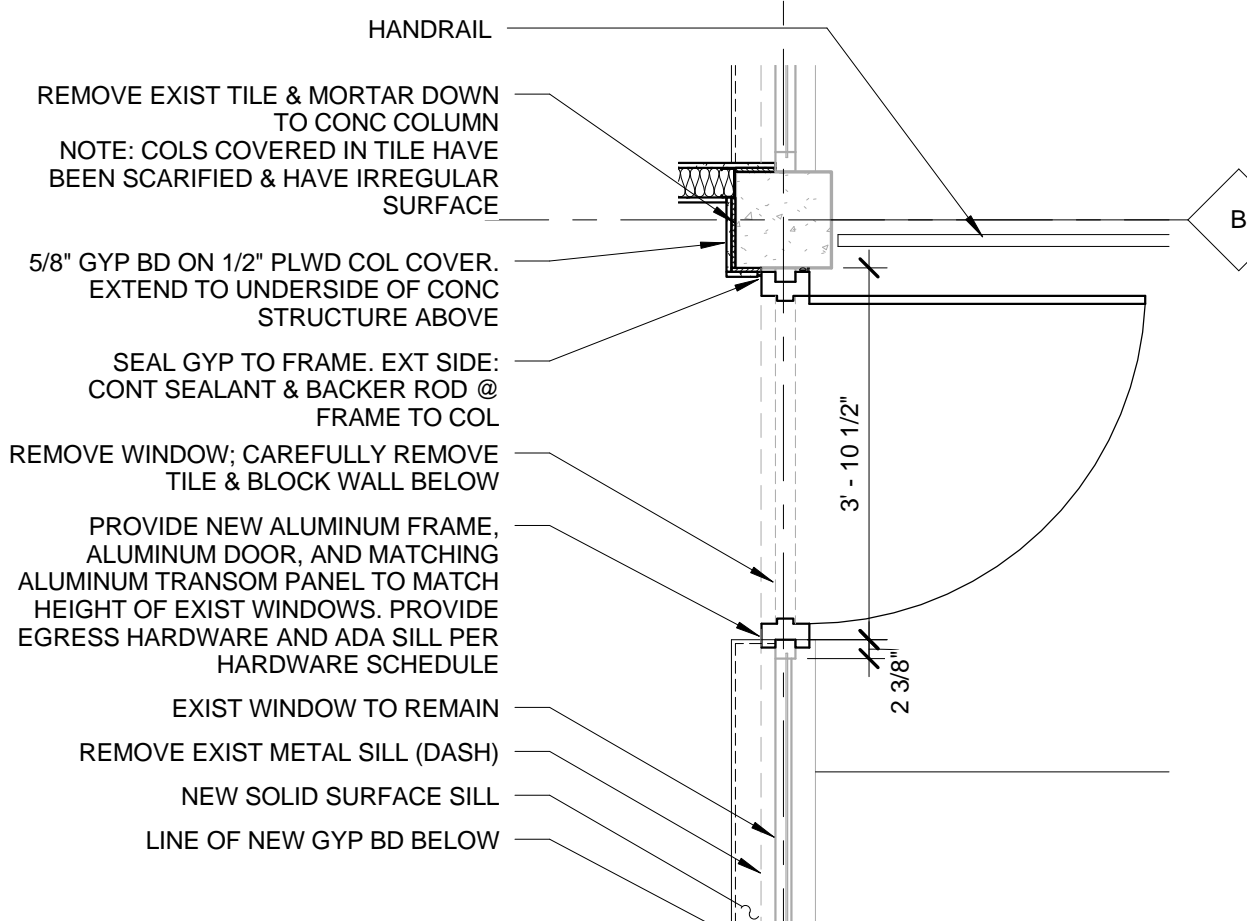


**1 FIRST FLOOR PLAN**  
1/8" = 1'-0"  
0 4 8 16'

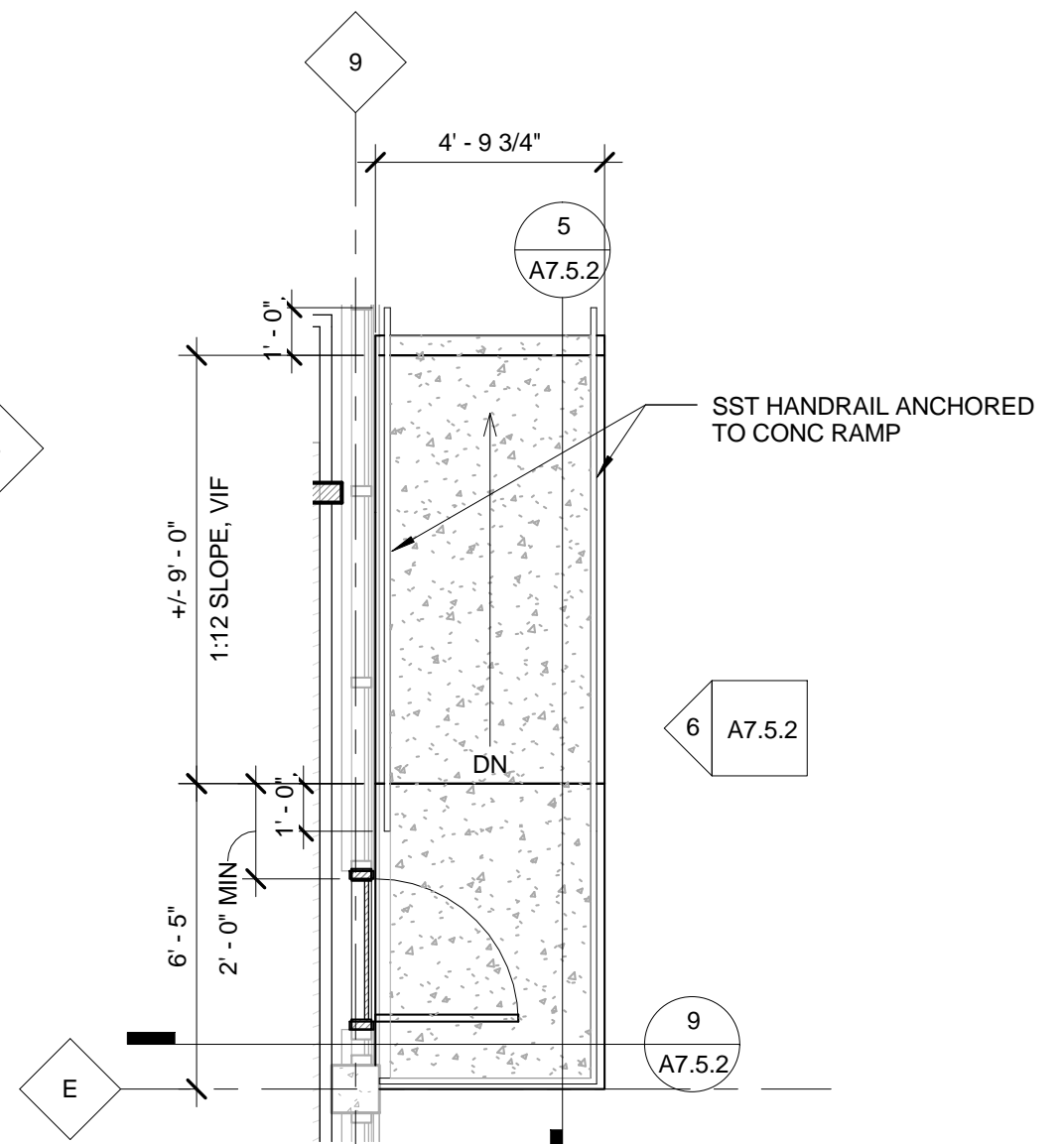
**5 4" CONCRETE PAVING DETAIL @ BUILDING**  
1" = 1'-0"



**4 4" CONCRETE PAVING DETAIL**  
1" = 1'-0"



**3 ENLARGED PLAN @ NEW EGRESS DOOR**  
1/2" = 1'-0"



**2 ENLARGED PLAN @ RAMP**  
1/4" = 1'-0"

**FLOOR PLAN LEGEND**

- LIMIT OF WORK
- FLOOR DRAIN
- ⊞ ELECTRICAL/TELECOM FLOOR BOX
- FEC FIRE EXTINGUISHER CABINET, RE: AGO.1
- FE WALL MTD FIRE EXTINGUISHER, RE: AGO.1
- ES TACTILE EXIT SIGN
- OL OCCUPANT LOAD SIGN
- EV EVACUATION SIGN
- EXISTING WALL
- NEW PARTITION WALL
- EXISTING MASONRY WALL
- - - - - ADD ALTERNATE 1
- - - - - ADD ALTERNATE 2
- ⊞ NEW DOOR
- ⊞ EXISTING DOOR

**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. NEW CONSTRUCTION PARTITIONS THAT CONNECT W/ END OF AN EXISTING PARTITION TO BE FLUSH WITH EXISTING UNO.
5. OPENING DIMS ARE FINISH SURFACE CLEAR DIMENSIONS
6. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UNO.
7. NEW PARTITIONS WILL BE TYPE A30 WITH ACOUSTICAL INSULATION UNO.
8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES
9. MAINTAIN 1-HR FIRE RATING @ EXISTING SHAFT WALLS W/ NEW OPENINGS & @ EXISTING SHAFT OPENINGS TO BE CLOSED. SEE SHIT A7.4.1 FOR PARTITION TYPE 'J' - 1-HR RATED SHAFT WALL
10. REFER TO SHEET A7.4.3 FOR FIRESTOPPING AND PENETRATION DETAILS
11. REFER TO SHEET AGO.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE @ DOORS, & CLEAR FLOOR SPACE @ PLUMBING FIXTURES
12. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DTLs - PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT, GRAB BARS, & DOOR BUMPERS
13. PROVIDE GLASSMAT BACKER AT ALL TOILET ROOM TILE WALLS.
14. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS
15. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS & SIZES
16. PER ELEVATOR CONTRACTOR, REMOVE SELECTIVE ELEVATOR EQUIP. FOR REPLACEMENT INCLUDING:
  - A. POWER UNITS, CONTROLLER, PUMP UNIT, DOOR OPERATOR, HATCH DOOR EQUIPMENT AND RELATED EQUIPMENT/FIXTURES. PROVIDE NEW SUMP PIT AND LADDER.
  - B. CAB:
    - a. REMOVE EXISTING CAB FOR REPLACEMENT
    - b. NEW CAB INTERIOR ONLY
  - C. ALTERNATE 3: REMOVE EXISTING ELEVATOR & REPLACE WITH A NEW HOLELESS HYDRAULIC ELEVATOR, LOWER PIT AND RAISE ROOF. SEE SHEET A7.5.2 FOR DETAILS.
17. CLEAN AND REPAIR EXIST'G CONSTRUCTION TO REMAIN.
18. CLEAN EXIST'G WINDOWS, FRAMES & REPAIR HARDWARE.
19. PROVIDE UNTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A7.5.2 FOR DETAILS.
20. PROVIDE UNDERLAVATORY GUARDS @ EXPOSED PLUMBING IN ALL PUBLIC WASHROOMS
21. REFER TO SHEET A7.7.1 FOR MATERIAL INDEX
22. REFER TO SHEET A7.7.2 FOR ROOM FINISH SCHEDULE
23. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE BEEN REMOVED AS REQUIRED FOR WORK.
24. PATCH ALL HOLES IN EXIST'G PARTITIONS & WALLS THAT ARE TO BE EXPOSED BY NEW WORK FROM REMOVED FURRING, BRACKETS, CABINETS, MECHANICAL OR ELECTRICAL EQUIPMENT.
25. EXCEPT IN STAIR WELLS AND MECH/ELEC RMS, ALL CMU WALLS WILL BE FURRED OUT WITH WALL TYPE 'G' OR 'H' UNLESS NOTED OTHERWISE. FURRING TYPE IS BASED ON ELECTRICAL OUTLETS.
26. EXISTING PLASTER COLUMNS TO REMAIN EXPOSED WILL BE FINISHED IN KIND FROM FLOOR TO CEILING WHERE REMOVAL OF CEILING AND OR HVAC PLENUM EXPOSES UNFINISHED PORTIONS OF COLUMN

ADDENDUM 1	DATE
FOR BIDS	20 JAN 2015
98% CONSTRUCTION DOCUMENTS	19 DEC 2014
50% CONSTRUCTION DOCUMENTS	26 NOV 2014
DESIGN DEVELOPMENT	31 OCT 2014
SCHEMATIC DESIGN	08 OCT 2014
	26 AUG 2014

Project  
**SCHOOL OF SOCIAL WORK**  
5447 Woodward, Detroit, MI

Drawing Title  
**SECOND LEVEL FLOOR PLAN**

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: CB Approved By: RH

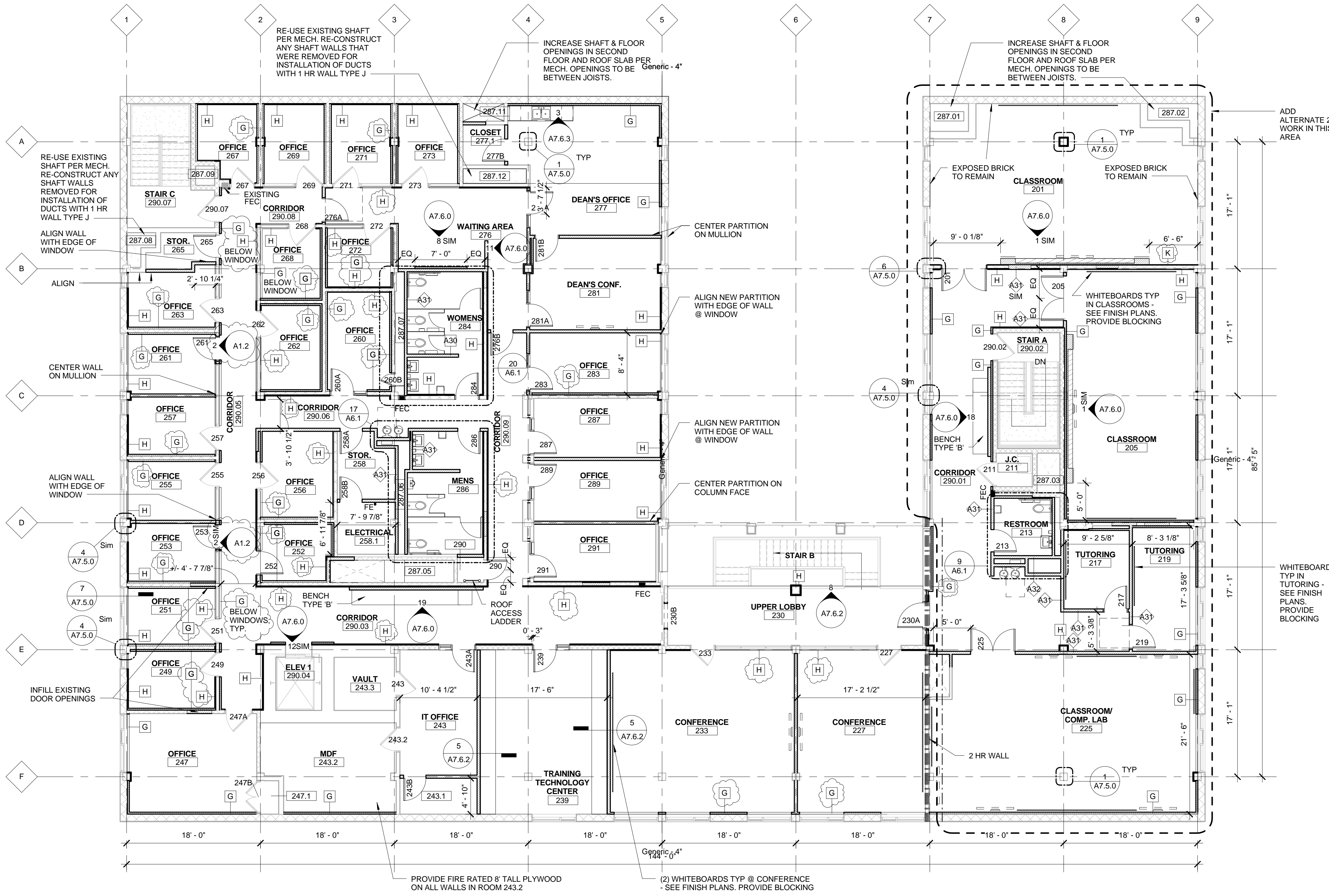
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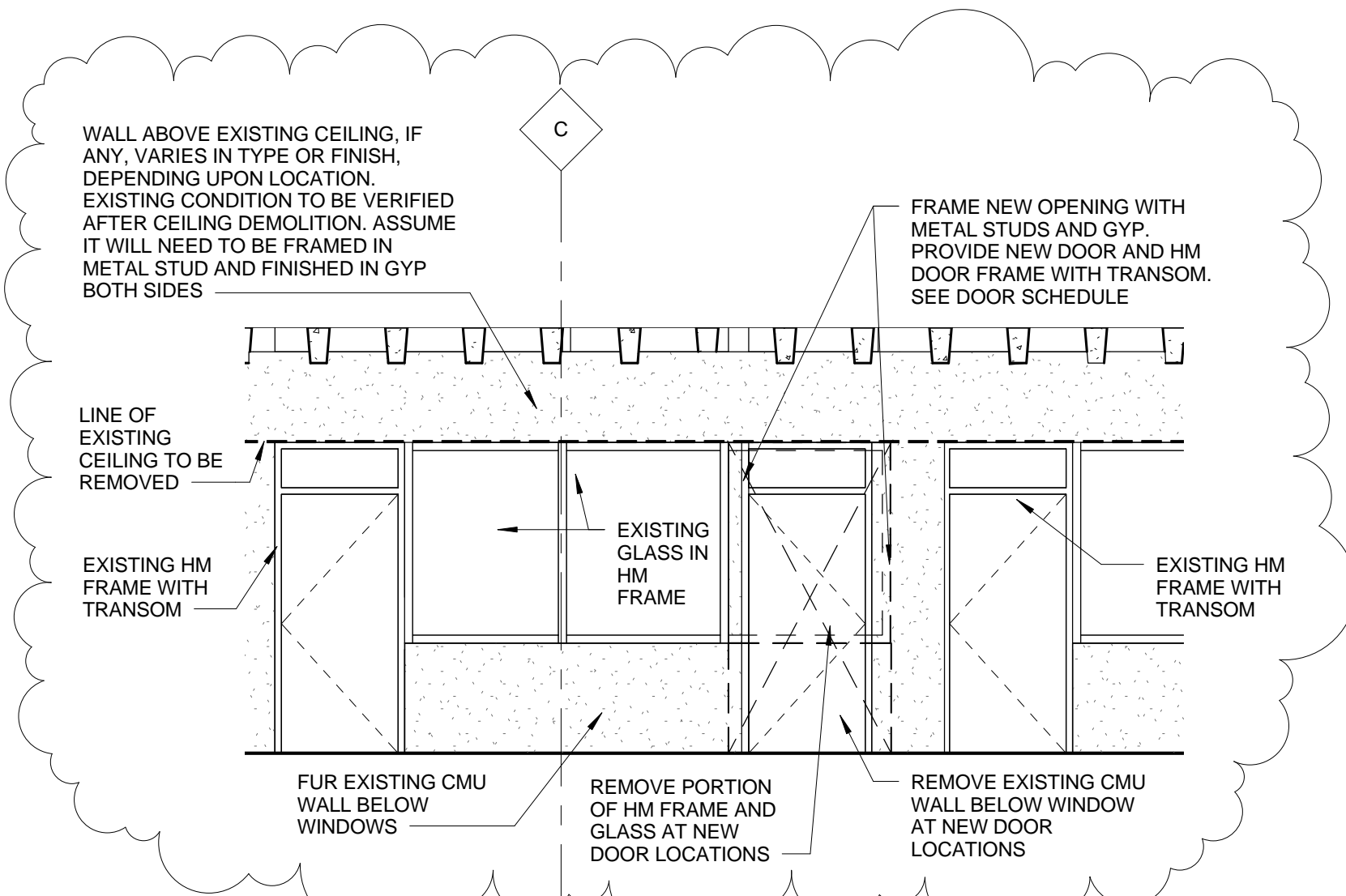
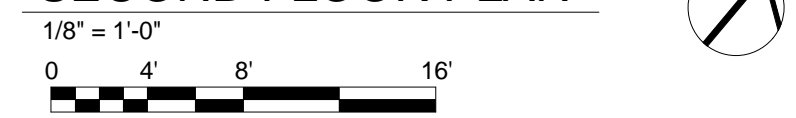
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Drawing No:

**A1.2**



**SECOND FLOOR PLAN**



2  
A1.2  
**CORRIDOR #290.05 NEW DOOR IN GLASS WALL- TYP.**  
1/4" = 1'-0"

NOTE: OWNER IS RESPONSIBLE FOR HAZARDOUS MATERIAL REMEDIATION TO BE COMPLETED PRIOR TO THE START OF GENERAL DEMOLITION.

DEMOLITION GENERAL NOTES

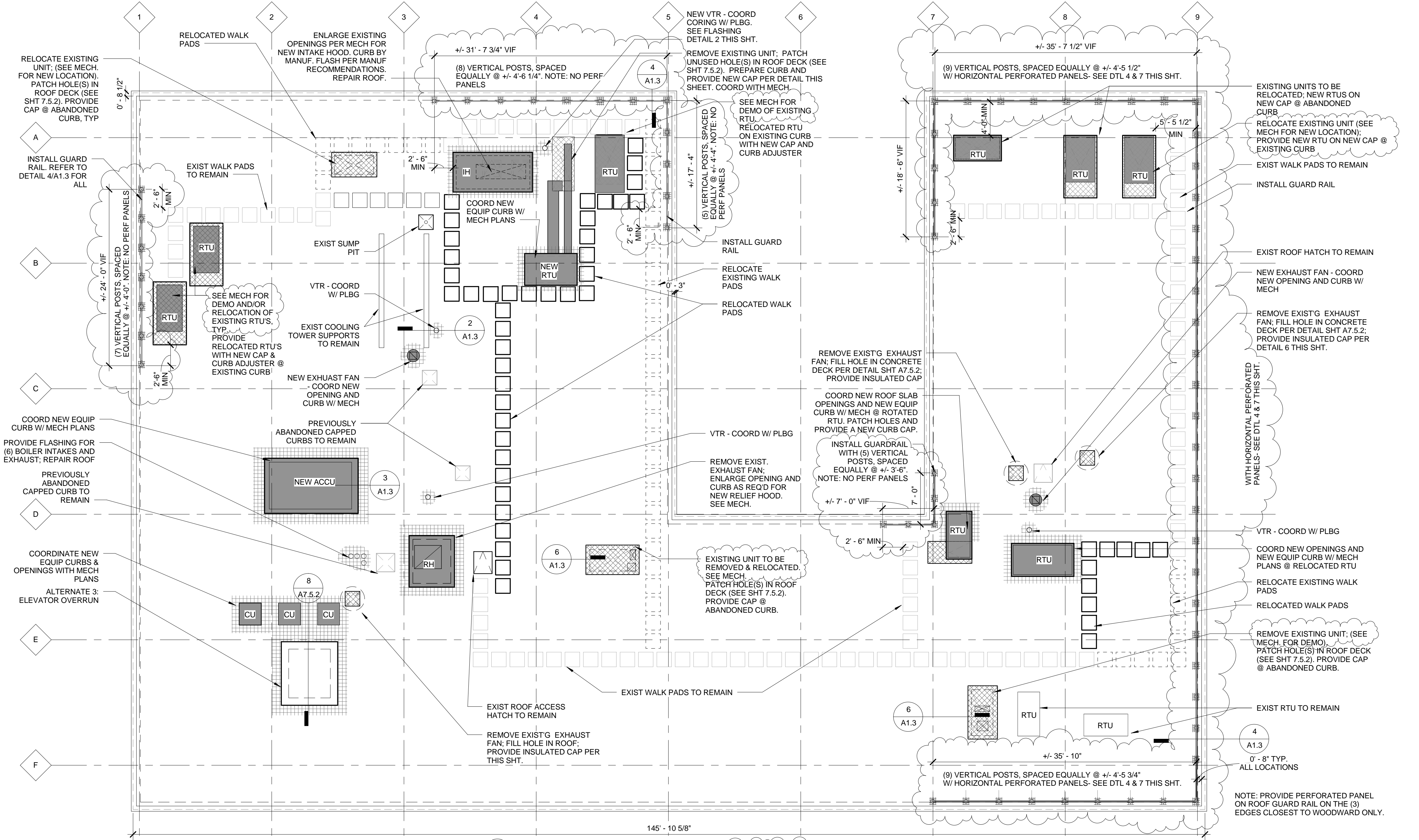
- 1. CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.
2. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS.
3. VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION. NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.
4. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS AND OTHER CONTRACTORS RETAINED BY THE OWNER.
5. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK
6. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION & CONSTRUCTION.
7. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.
8. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.
9. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 60% RECYCLING OF CONSTRUCTION WASTE. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.
10. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS. LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.
11. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.
12. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.
13. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)
14. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

ROOF PLAN LEGEND

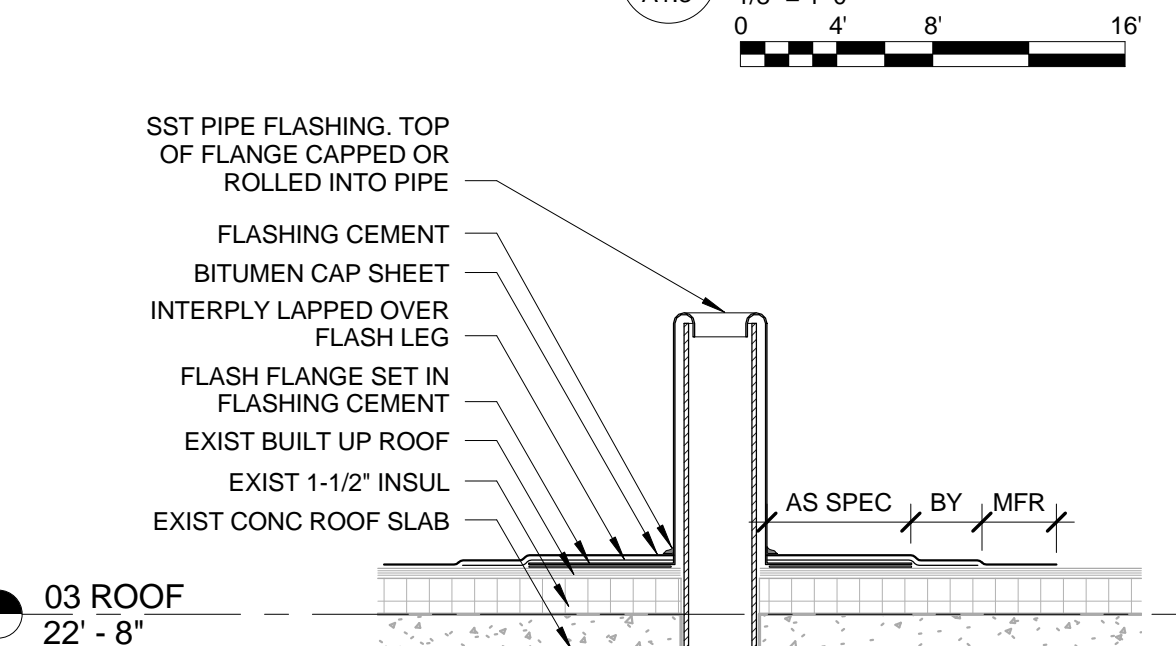
- RELOCATED WALK PADS/ REPLACE AS NEEDED
EXISTING WALK PADS TO REMAIN
DEMOLISHED WALK PAD
NEW OR RELOCATED EQUIPMENT- SEE MECH
NEW CAP AT EXISTING ROOF CURB
EXISTING EXHAUST FAN / VENT CURB OPENING
EXISTING ROOF HATCH
EXHAUST FAN
VENT THRU ROOF
DISTURBED ROOF AREAS AT NEW CURBS OR POSTS (KEEP MINIMAL) TO BE FLASHED AND PATCHED

ROOF PLAN NOTES

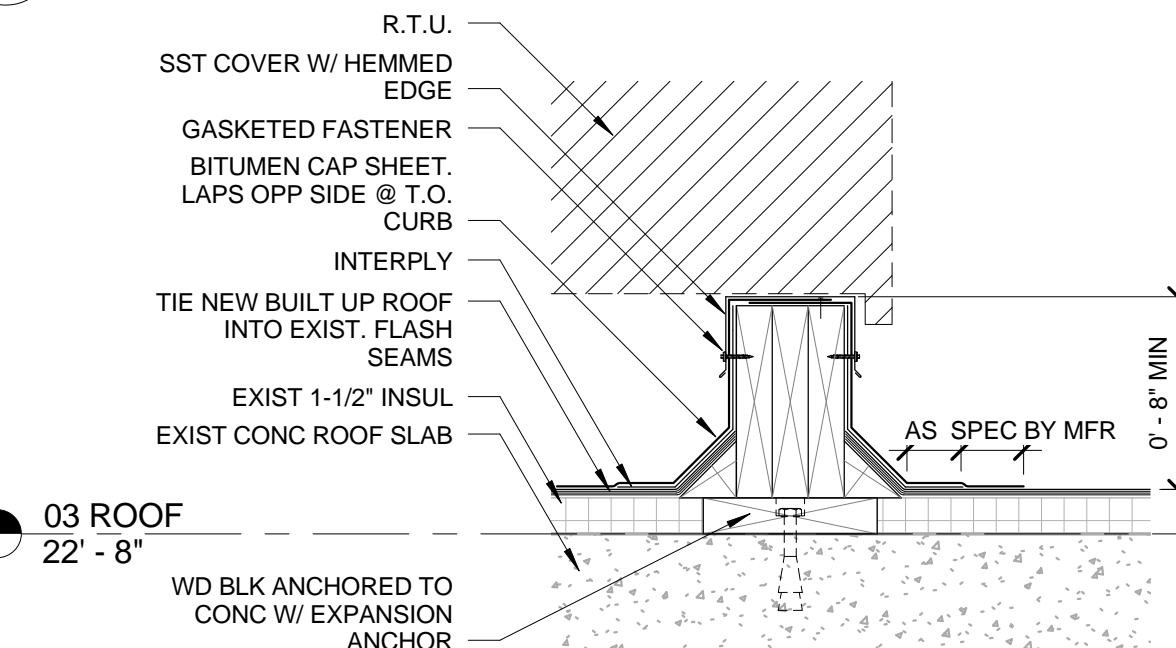
- 1. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION
2. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL INFORMATION INCLUDING DEMOLITION, RELOCATED EQUIPMENT, EQUIPMENT PAD LOCATIONS & SIZES.
3. ALTERNATE 3: REMOVE EXISTING ELEVATOR & REPLACE W/ A NEW HOLESSE HYDRAULIC ELEVATOR, LOWER PIT AND RAISE ROOF. SEE SHEET A7.5.2 FOR DETAILS
4. AT NEW ROOF PENETRATIONS: REMOVE MIN AREA OF EXIST ROOFING SYSTEM DOWN TO STRUCTURE AS REQUIRED FOR NEW OPG. INFILL REMOVED AREA OF INSULATION W/ MATCHING TYPE & THICKNESS. REFER TO DETAIL 2/A1.3 FOR VENT PENETRATION & DETAIL 4/A1.3 FOR GUARD RAIL PENETRATION
5. INSTALL INSULATED WEATHERTIGHT CAP W/ MIN R19 THERMAL PERFORMANCE AT ALL ABANDONED CURBS. REFER TO DETAIL 6/A1.3



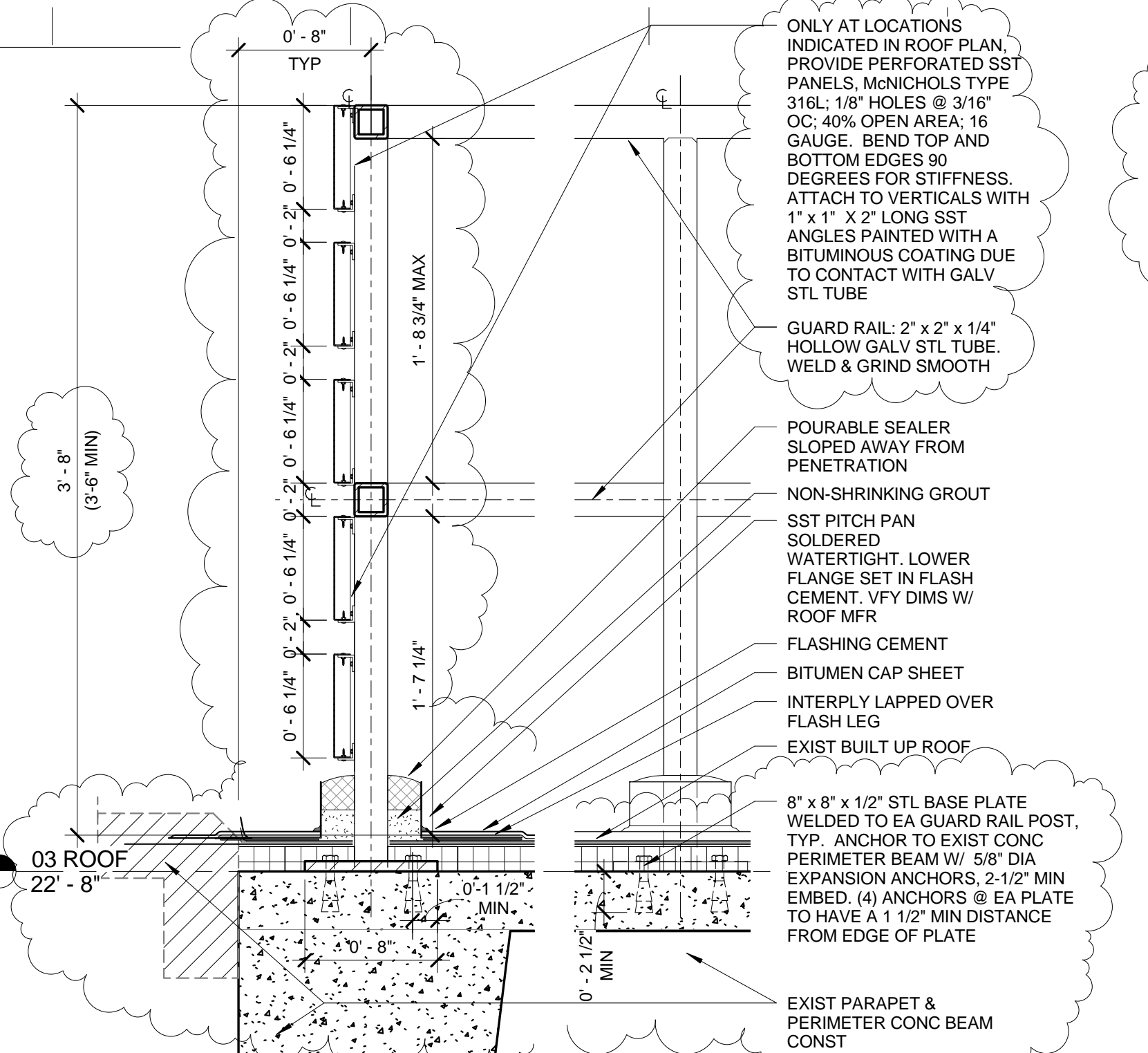
1 ROOF PLAN 1/8" = 1'-0"



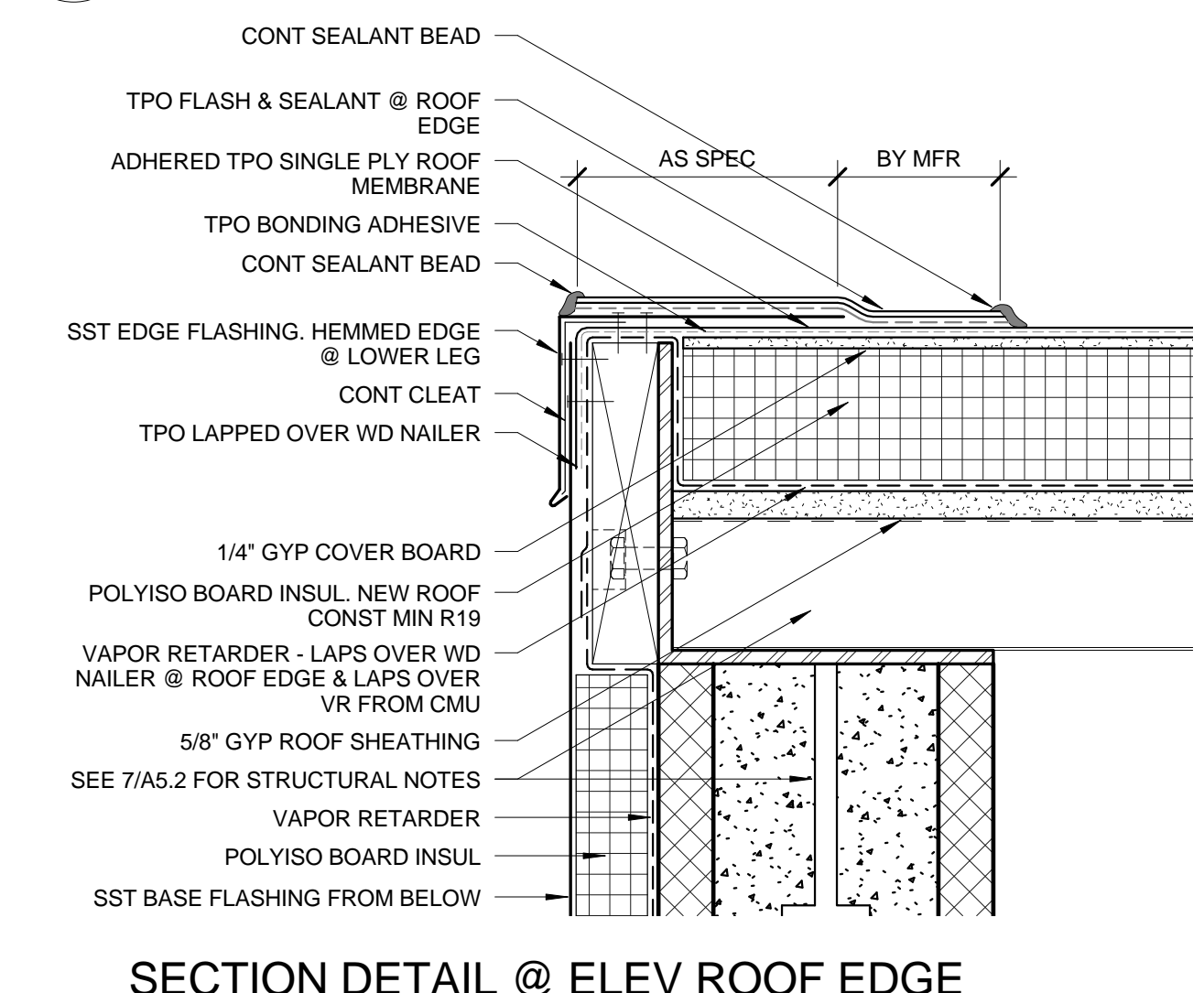
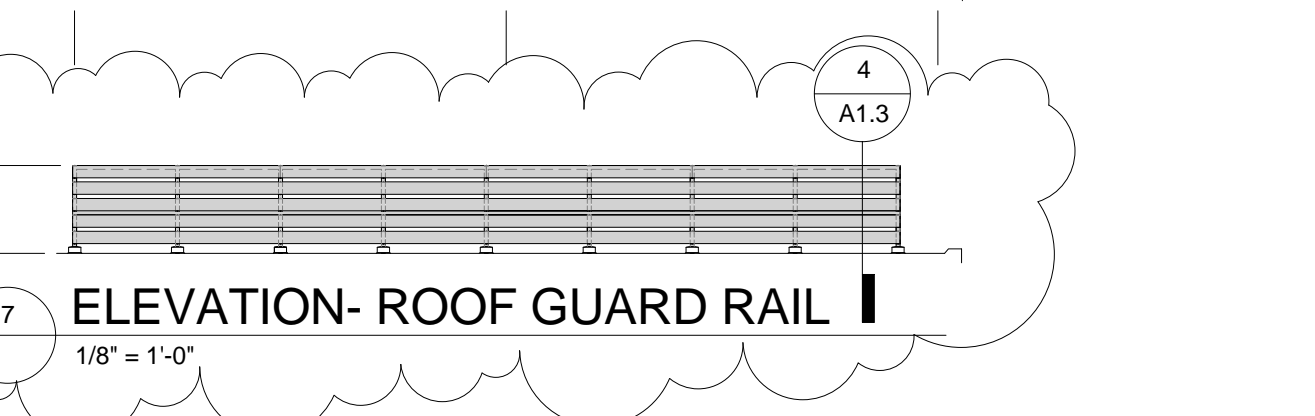
2 SECTION DETAIL AT ROOF VENT 1 1/2" = 1'-0"



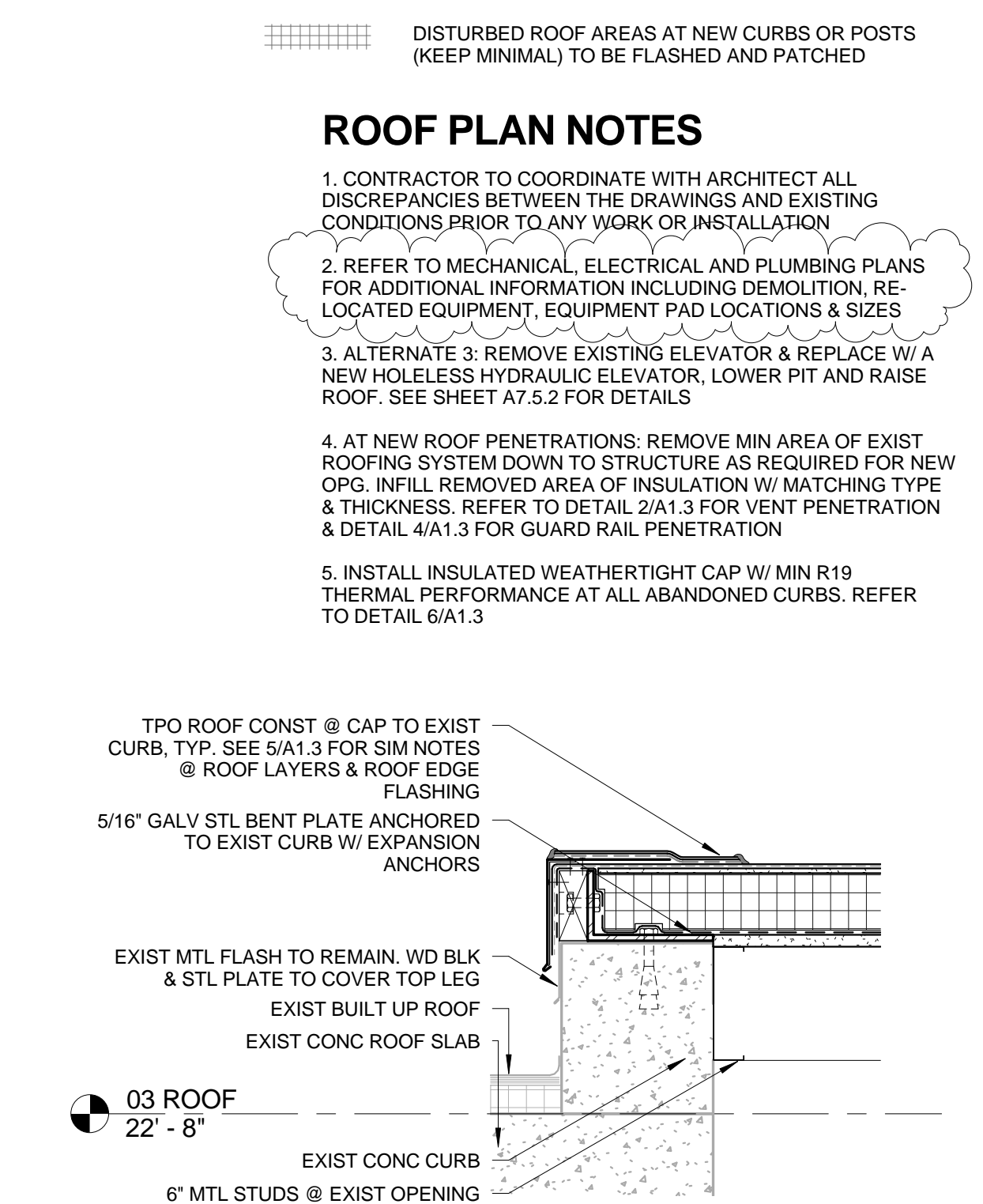
3 SECTION DETAIL AT ROOF EQUIPMENT CURB 1 1/2" = 1'-0"



4 SECTION DETAIL AT ROOF GUARD RAIL 1 1/2" = 1'-0"



5 SECTION DETAIL @ ELEV ROOF EDGE (ALTERNATE 3) 3" = 1'-0"



6 SECTION DETAIL @ CAP TO EXIST ROOF CURB 1 1/2" = 1'-0"

Table with 2 columns: Addendum/Revision, Date. Includes entries for Addendum 1 (20 JAN 2015), For Bids (19 DEC 2014), 98% Construction Documents (26 NOV 2014), 50% Construction Documents (31 OCT 2014), Design Development (08 OCT 2014), and Schematic Design (26 AUG 2014).

Project SCHOOL OF SOCIAL WORK 5447 Woodward, Detroit, MI
Drawing Title ROOF PLAN & DETAILS

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: CB Approved By: RH

Scale: As indicated

Signature: \_\_\_\_\_

Drawing No: \_\_\_\_\_

**FLOOR PLAN LEGEND**

- LIMIT OF WORK
- ⊠ FLOOR DRAIN
- ⊠ ELECTRICAL/TELECOM FLOOR BOX
- FEC FIRE EXTINGUISHER CABINET, RE: AG.0.1
- FE WALL MTD FIRE EXTINGUISHER, RE: AG.0.1
- ES TACTILE EXIT SIGN
- OL OCCUPANT LOAD SIGN
- EV EVACUATION SIGN
- WALL
- NEW PARTITION WALL
- EXISTING MASONRY WALL
- - - ADD ALTERNATE 1
- - - ADD ALTERNATE 2
- ⏏ NEW DOOR
- ⏏ EXISTING DOOR

**FLOOR PLAN NOTES**

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10. REFER TO SHEET A7.4.3 FOR FIRESTOPPING AND PENETRATION DETAILS
11. REFER TO SHEET AG.0.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE @ DOORS, & CLEAR FLOOR SPACE @ PLUMBING FIXTURES
12. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DTLS - PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT, GRAB BARS, & DOOR BUMPERS
13. PROVIDE GLASSMATT BACKER AT ALL TOILET ROOM TILE WALLS.
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16. PER ELEVATOR CONTRACTOR, REMOVE SELECTIVE ELEVATOR EQUIP<sup>T</sup> FOR REPLACEMENT INCLUDING:
  - A. POWER UNITS, CONTROLLER, PUMP UNIT, DOOR OPERATOR, HATCH DOOR EQUIPMENT AND RELATED EQUIPMENT/FIXTURES. PROVIDE NEW SUMP PIT AND LADDER.
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19. PROVIDE LINTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A7.5.2 FOR DETAILS.
20. PROVIDE UNDERLAVATORY GUARDS @ EXPOSED PLUMBING IN ALL PUBLIC WASHROOMS
21. REFER TO SHEET A7.7.1 FOR MATERIAL INDEX
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248.932.2010

**WAYNE STATE UNIVERSITY**

Client  
**WAYNE STATE UNIVERSITY**  
FP&M  
5454 Cass Avenue  
Detroit, Michigan  
Key Plan

ADDENDUM	DATE
ADDENDUM 1	20 JAN 2015
FOR BIDS	19 DEC 2014
98% CONSTRUCTION DOCUMENTS	26 NOV 2014
50% CONSTRUCTION DOCUMENTS	31 OCT 2014
DESIGN DEVELOPMENT	08 OCT 2014

Project  
**SCHOOL OF SOCIAL WORK**  
5447 Woodward, Detroit, MI

Drawing Title  
**ENLARGED TOILET ROOM PLANS & ELEVATIONS**

Project Number: 2013088.01 WСУ Project No: 063-233732

Drawn By: CC Approved By: RH

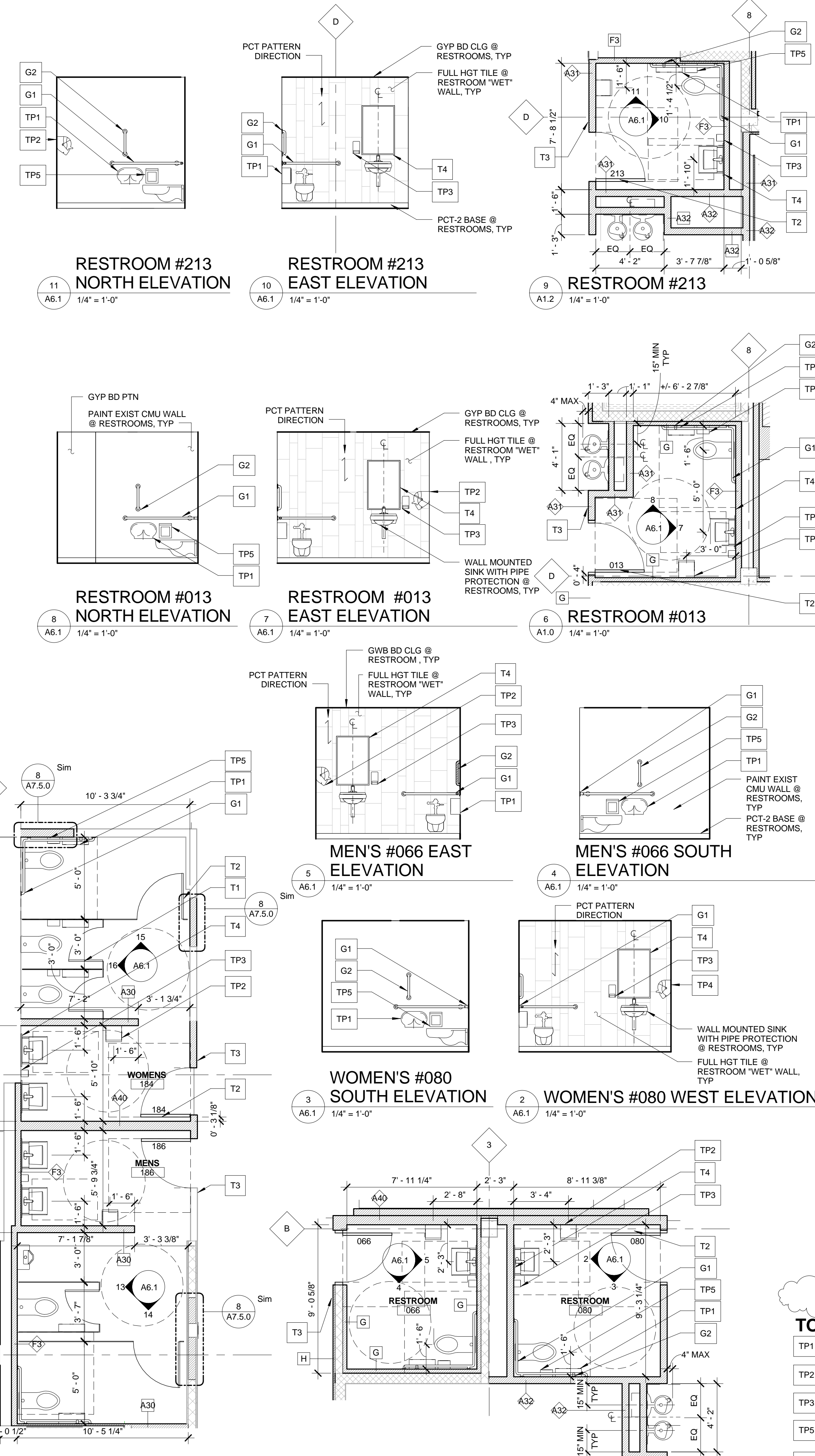
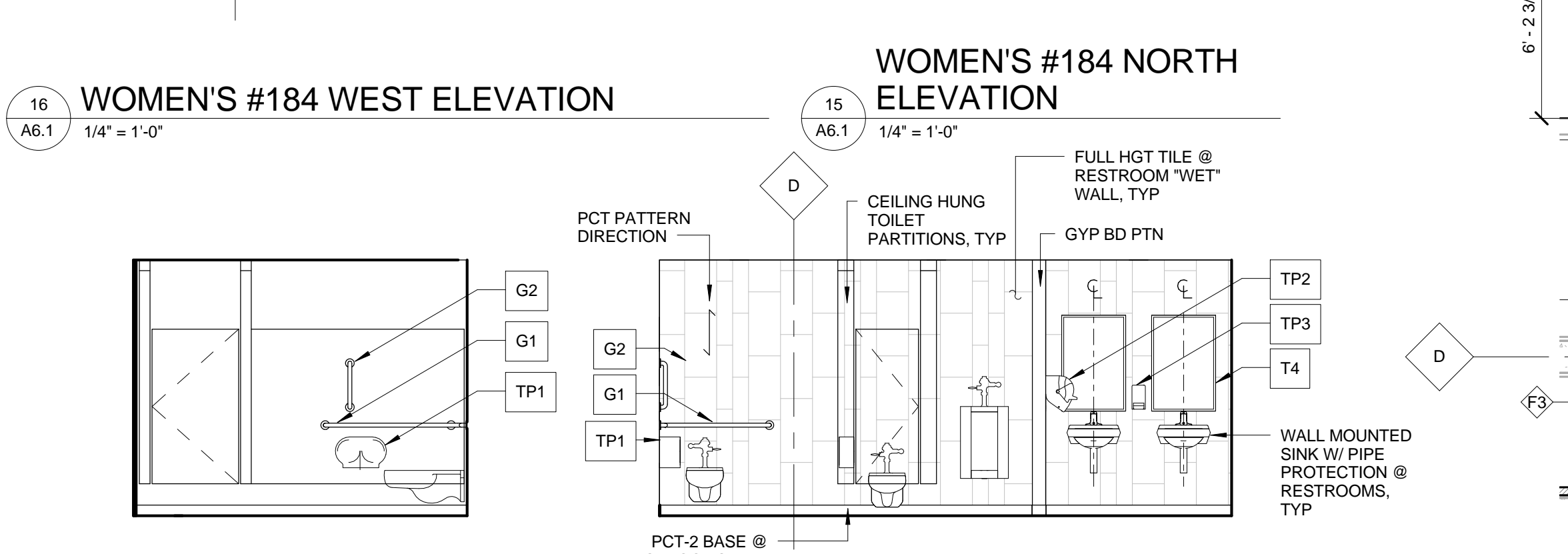
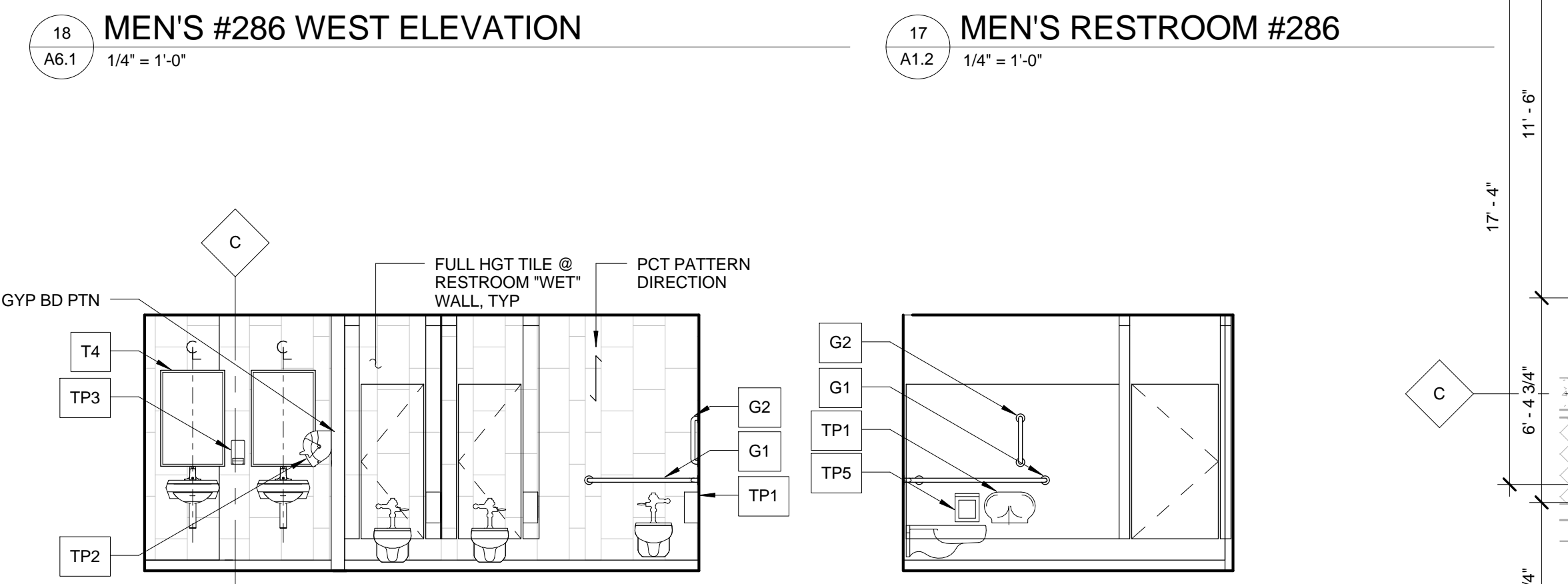
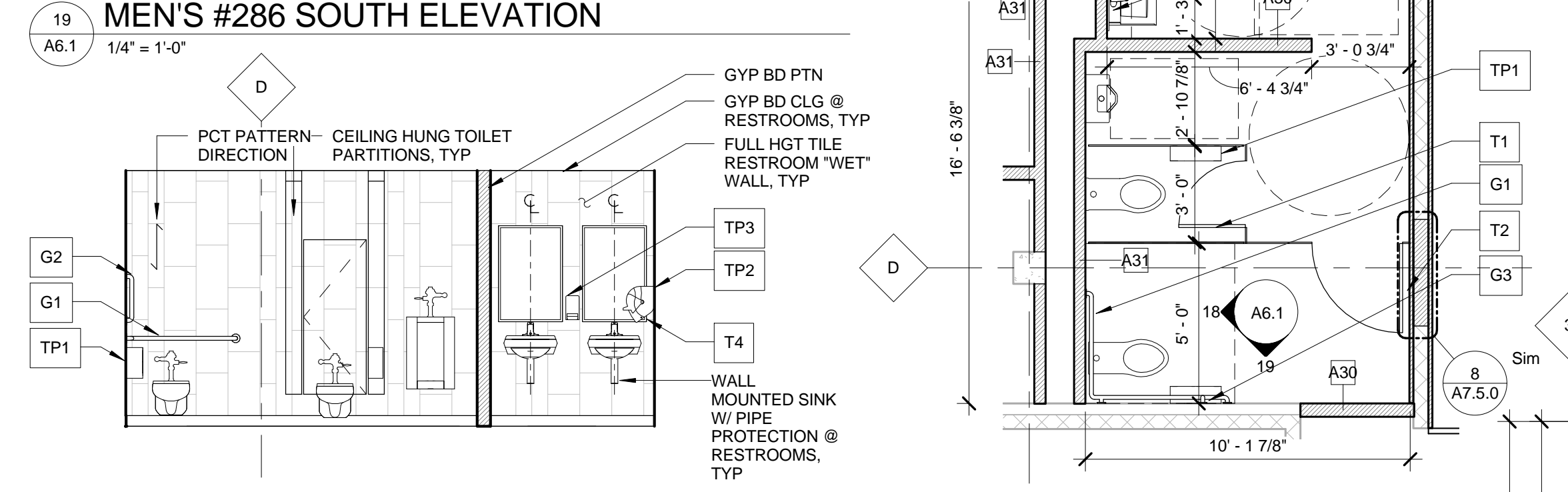
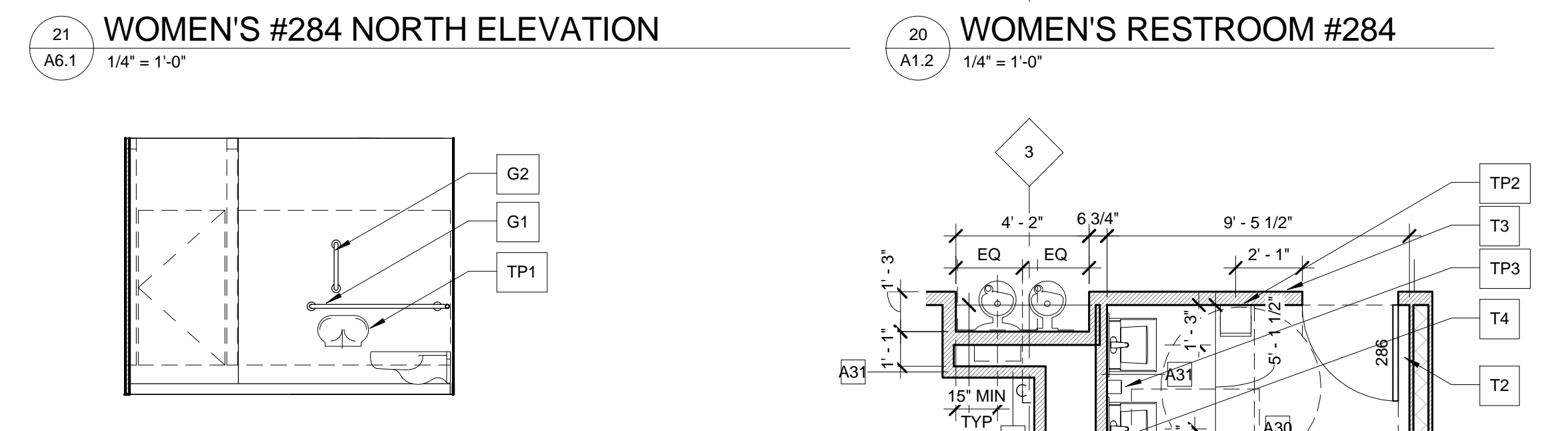
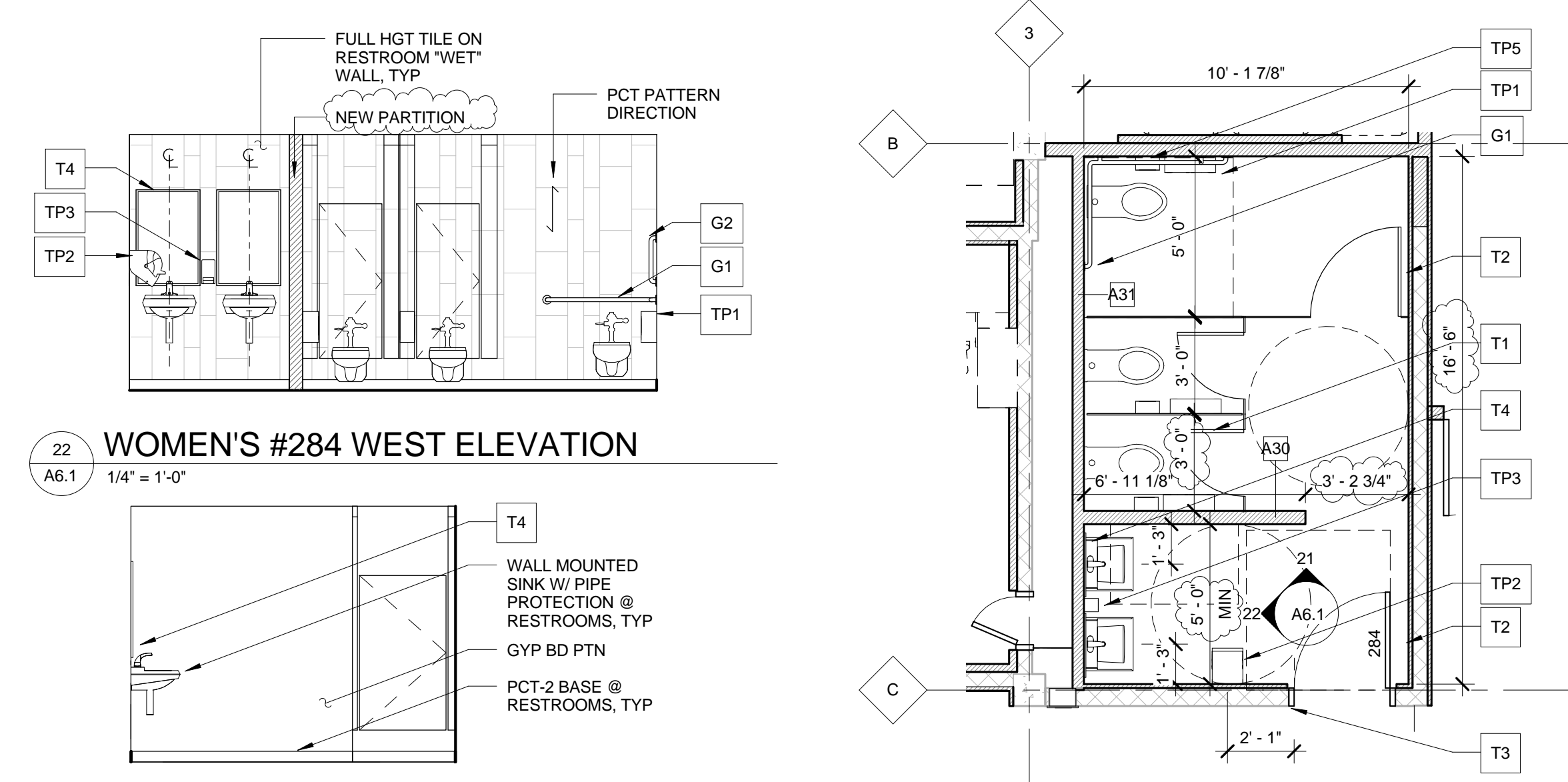
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Signature:

Drawing No:

**A6.1**



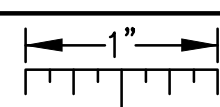
**TOILET ACCESSORIES**

- TP1 TOILET TISSUE DISPENSER
- T1 COAT HOOK (TYP)
- TP2 PAPER TOWEL DISPENSER
- T2 COAT HOOK (ACCESSIBLE)
- TP3 SOAP DISPENSER
- T3 MENS/WOMENS ROOM SIGNAGE
- TP5 SANITARY DISPOSAL
- T4 MIRROR 24"X36", RE: AG.0.1
- G1 TWO-WALL GRAB BAR 42" x 36", RE: AG.0.1
- G2 GRAB BAR 18", RE: AG.0.1





THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

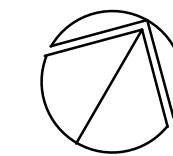
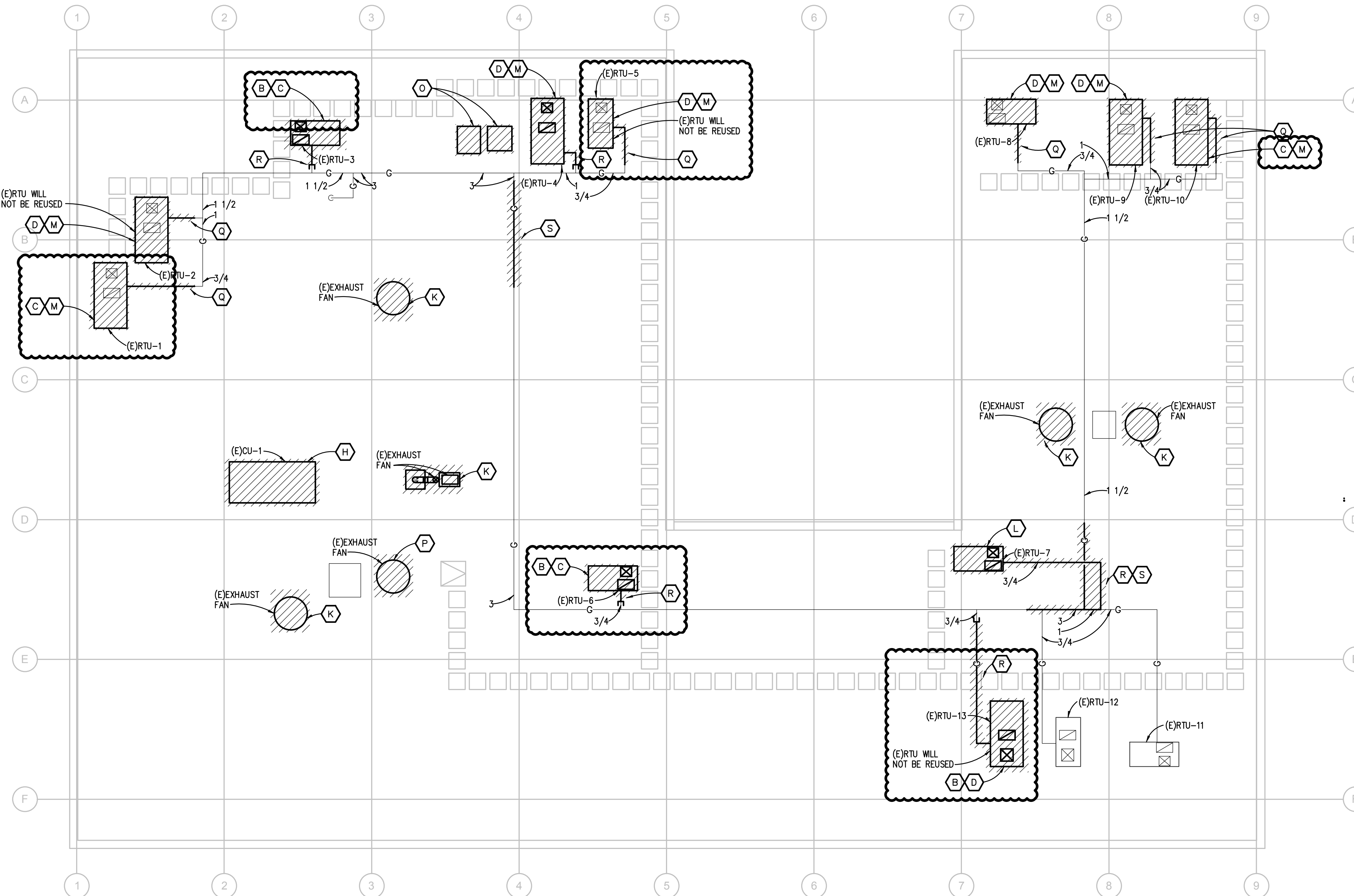


### MECHANICAL GENERAL DEMOLITION NOTES:

1. THE SCOPE OF MECHANICAL WORK FOR THIS PROJECT IS THE REPLACEMENT OF THE MECHANICAL AND PLUMBING SYSTEMS WITHIN THE BUILDING. ALL MECHANICAL AND PLUMBING SYSTEMS ARE TO BE REMOVED WITH THE EXCEPTION OF SPECIFIC ITEMS NOTED TO REMAIN OR TO BE RELOCATED.
2. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
3. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THEY ARE BASED ON LIMITED EXISTING DRAWINGS AND ON LIMITED SITE SURVEY. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. REFER TO ORIGINAL BUILDING DRAWINGS INCLUDED IN THIS BID SET. VISIT THE SITE PRIOR TO BIDS TO OBSERVE THE EXISTING CONDITIONS.
4. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
5. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

### DEMOLITION KEY NOTES:

- (A) SCOPE OF WORK INCLUDES REPLACEMENT OF HVAC AND PLUMBING SYSTEMS. REMOVE ALL EXISTING HVAC AND PLUMBING EQUIPMENT, DUCTWORK, PIPING, HANGERS, CONTROLS, AND ASSOCIATED COMPONENTS COMPLETE UNLESS NOTED OTHERWISE ON THESE DRAWINGS. NOTE ALL DUCTWORK, PIPING, AND EQUIPMENT IS NOT INDICATED ON THESE DRAWINGS. EXISTING DRAWINGS ARE ISSUED FOR REFERENCE. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS TO BE REMOVED.
- (B) REMOVE RTU AND ASSOCIATED DUCTWORK, PATCH CONCRETE ROOF DUCT PENETRATIONS, CAP EXISTING ROOF CURB WITH WEATHER TIGHT INSULATED (MINIMUM R-19) ROOF CURB CAP. PROVIDE ROOF REPAIRS.
- (C) RELOCATE EXISTING RTU. REFER TO DRAWING M4.3 FOR NEW LOCATION.
- (D) EXISTING RTU TO BE REMOVED AND TURNED OVER TO THE OWNER.
- (E) REMOVE EXISTING WATER METER ASSEMBLY. RELOCATE EXISTING WATER METER. REFER TO NEW WORK PLANS FOR DETAILS OF RECONFIGURED WATER SERVICE ENTRANCE AND EXTENSION OF THIS SYSTEM.
- (F) REMOVE EXISTING GAS METER ASSEMBLY. REMOVE ABANDONED PORTION OF PIPING ROUTED DOWN CORRIDOR. EXISTING GAS PIPING SERVING ROOFTOPS TO REMAIN. REFER TO NEW WORK PLANS FOR EXTENSION/MODIFICATION OF THIS SYSTEM.
- (G) REMOVE EXISTING ELECTRIC WATER HEATER AND DELIVER TO OWNER.
- (H) REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERATION PIPING AND ROOF SUPPORTS.
- (I) REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING COMPLETE. PATCH EXTERIOR WALL TO MATCH EXISTING.
- (J) REMOVE EXISTING IRRIGATION VACUUM BREAKER AND ASSOCIATED PIPING.
- (K) REMOVE EXISTING ROOF MOUNTED EXHAUST FAN INCLUDING ELECTRIC WIRING AND CONTROL COMPLETE, PROVIDE WEATHER TIGHT INSULATED (MINIMUM R-19) ROOF CURB CAP.
- (L) ROTATE UNIT AS REQUIRED TO PROVIDE NEW SUPPLY AND RETURN LOCATIONS AS SHOWN ON M4.2. PATCH CONCRETE ROOF DUCT PENETRATIONS, PREPARE ROOF CURB AS REQUIRED FOR NEW UNIT, AND PROVIDE ROOFING REPAIRS.
- (M) REMOVE UNIT AND PREPARE ROOF CURB AND DUCTWORK FOR NEW/RELOCATED UNIT.
- (N) REMOVE EXISTING CABINET UNIT HEATER, ASSOCIATED CONTROLS, WIRING, PIPING, AND ALL OTHER COMPONENTS. PREPARE OPENING FOR NEW UNIT.
- (O) REMOVE EXISTING ROOF SHAFT ACCESS HATCH, ENLARGE OPENING AND PREPARE OPENING FOR NEW CONSTRUCTION. REFER TO M4.3 FOR OPENING SIZE REQUIREMENTS. PROVIDE ROOF REPAIRS.
- (P) REMOVE EXISTING ROOF MOUNTED EXHAUST FAN INCLUDING ELECTRIC WIRING AND CONTROLS COMPLETE. ENLARGE AND PREPARE ROOF CURB AND OPENING AS REQUIRED FOR NEW CONSTRUCTION. PROVIDE ROOF REPAIRS.
- (Q) REMOVE GAS PIPING FROM ROOF TOP UNIT AS INDICATED AND PREPARE FOR NEW CONNECTION.
- (R) REMOVE GAS PIPING FROM ROOF TOP UNIT AS INDICATED AND CAP AS INDICATED.
- (S) REMOVE SECTION OF GAS PIPING AND PREPARE EXISTING PIPING TO REMAIN FOR NEW CONNECTION.
- (T) REMOVE EXISTING MULTI-ZONE AIR HANDLING UNIT, AND ASSOCIATED DUCTWORK, PIPING, CONTROLS, ETC.
- (U) REMOVE EXISTING DUCTWORK AND ASSOCIATED ELECTRIC REHEAT COILS COMPLETE (TYP).
- (V) REMOVE EXISTING THERMOSTATS (TYP).
- (W) REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING COMPLETE (TYP).
- (X) REMOVE EXISTING ROOFTOP AIR HANDLING UNIT DUCTWORK COMPLETE (TYP).
- (Y) SAWCUT EXISTING FLOOR AS REQUIRED AND REMOVE SECTION OF UNDERGROUND PIPING. PREPARE FOR NEW CONNECTION OR CAP AS INDICATED. PATCH FLOOR TO MATCH EXISTING GRADE AND FINISH.
- (Z) REMOVE RAIN CONDUCTOR PIPING AS INDICATED. PREPARE EXISTING TO REMAIN FOR NEW CONNECTION.



### ROOF MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1' - 0"

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West Bloomfield, MI 48322  
248.832.2010

WAYNE STATE UNIVERSITY

Client

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Detroit, Michigan

Key Plan

ADDENDUM	DATE
ADDENDUM 1	20 JAN 2015
BIDS	19 DEC 2014
98% CONSTRUCTION DOCUMENTS	26 NOV 2014
50% CONSTRUCTION DOCUMENTS	31 OCT 2014
DESIGN DEVELOPMENT	08 OCT 2014
SCHEMATIC DESIGN	26 AUG 2014

Project  
**SCHOOL OF SOCIAL WORK**  
5447 Woodward, Detroit, MI  
Drawing Title  
**ROOF MECHANICAL DEMOLITION PLAN**

Project Number: 2013088.01 | WSU Project No: 063-233732

Drawn By: JTC | Approved By: BMR

Scale: As indicated

Seal:

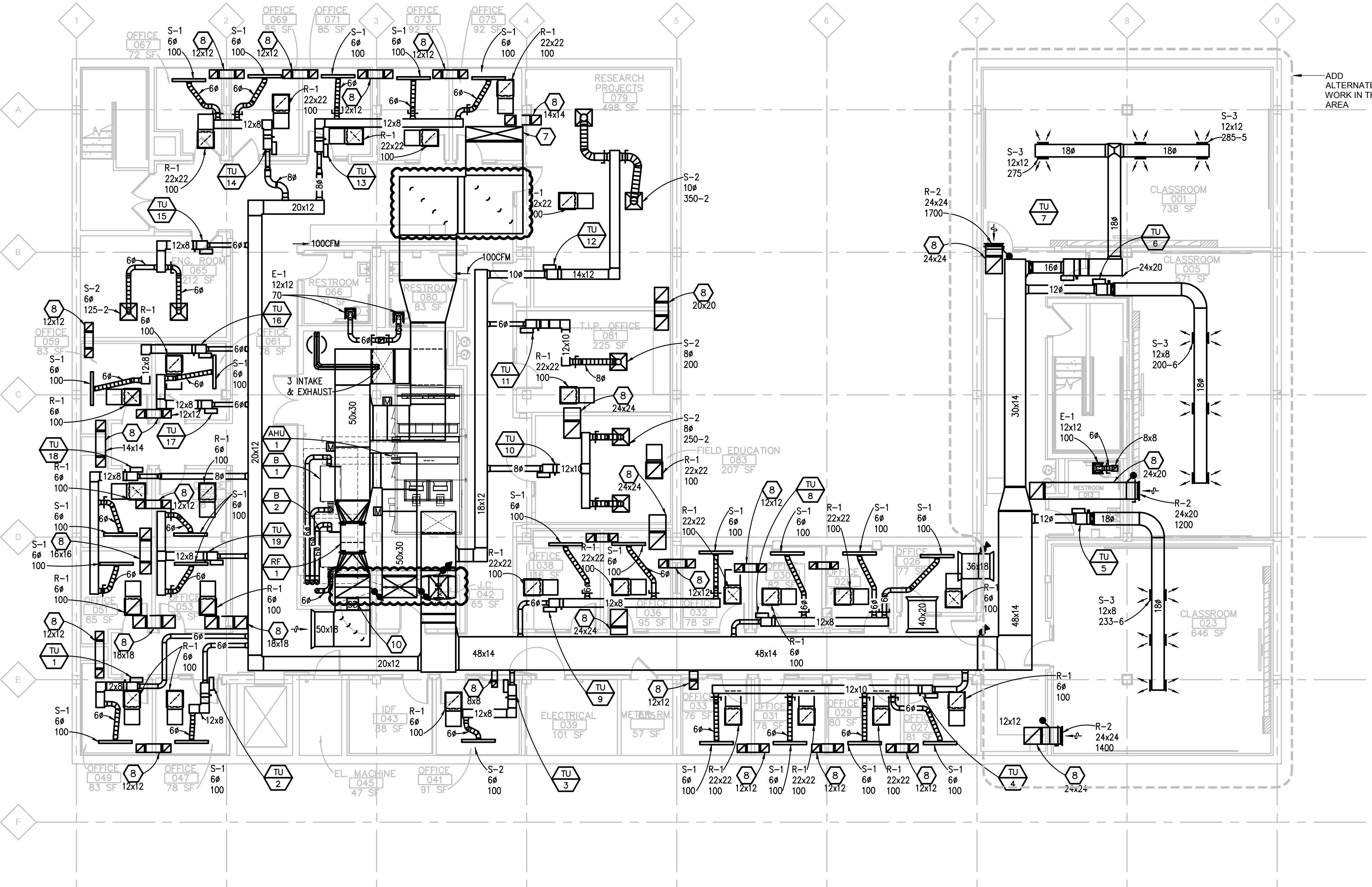
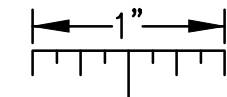
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Drawing No:

MD1.3

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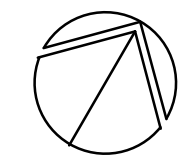


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11. 6 BOILER INTAKE(S) AND EXHAUST(S)



**LOWER LEVEL SHEET METAL PLAN**  
SCALE: 1/8" = 1' - 0"

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SCHEMATIC DESIGN	26 AUG 2014

Project  
**SCHOOL OF SOCIAL WORK**  
5447 Woodward, Detroit, MI  
Drawing Title  
**LOWER LEVEL SHEET METAL PLAN**

Project Number: 2013088.01 | WSU Project No: 063-233732

Drawn By: JTC | Approved By: BMR

Scale: As indicated

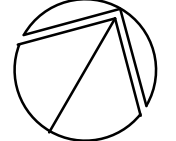
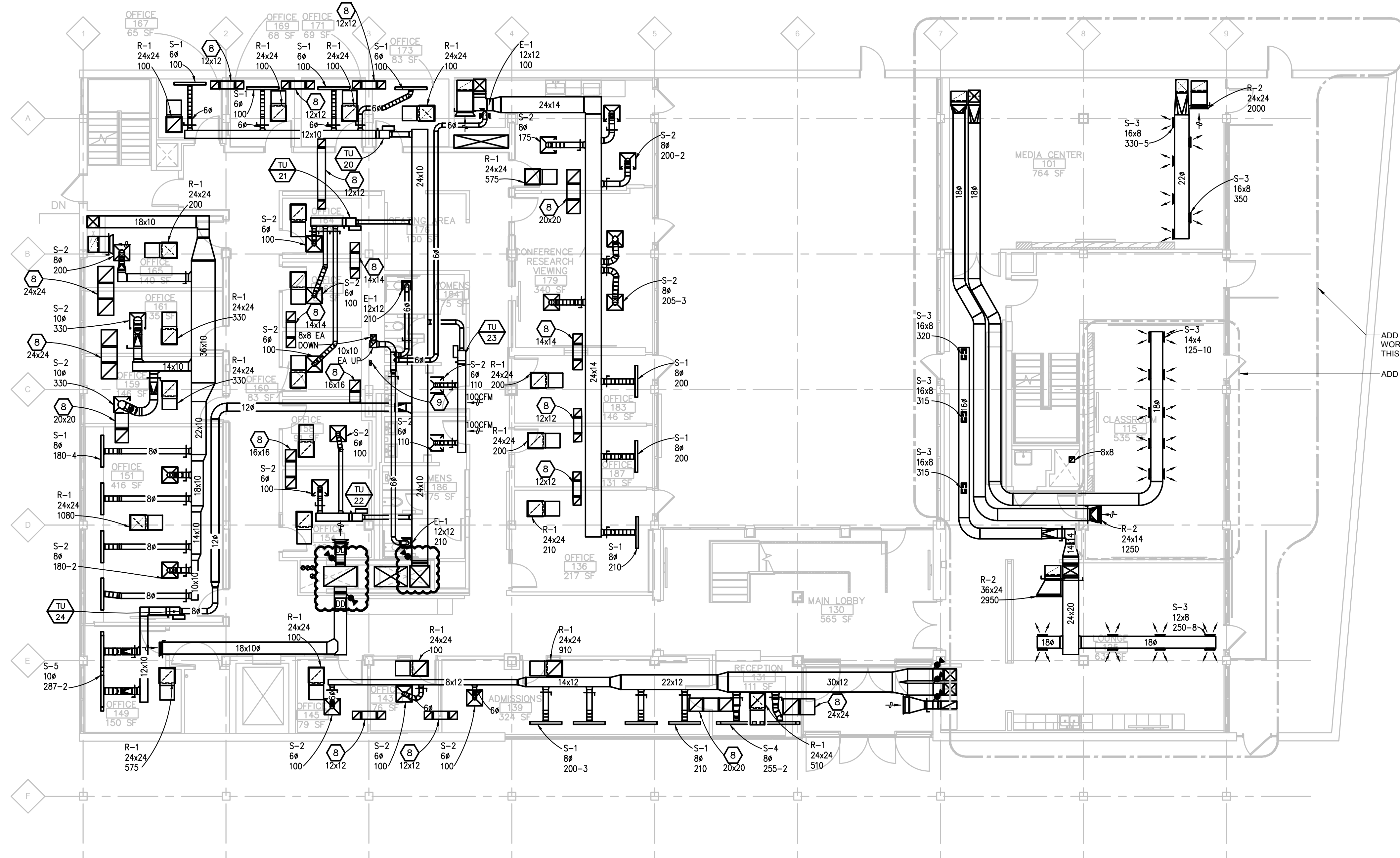
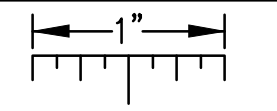
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**FIRST FLOOR SHEET METAL PLAN**  
SCALE: 1/8" = 1' - 0"

**SHEET METAL GENERAL NOTES:**

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ADD ALTERNATE 1 WORK IN THIS AREA  
ADD ALT 2

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Project  
**SCHOOL OF SOCIAL WORK**  
5447 Woodward, Detroit, MI  
Drawing Title  
**FIRST FLOOR SHEET METAL PLAN**

Project Number: 2013088.01 | WSU Project No: 063-233732

Drawn By: JTC | Approved By: BMR

Scale: As indicated

Seal:

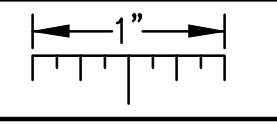
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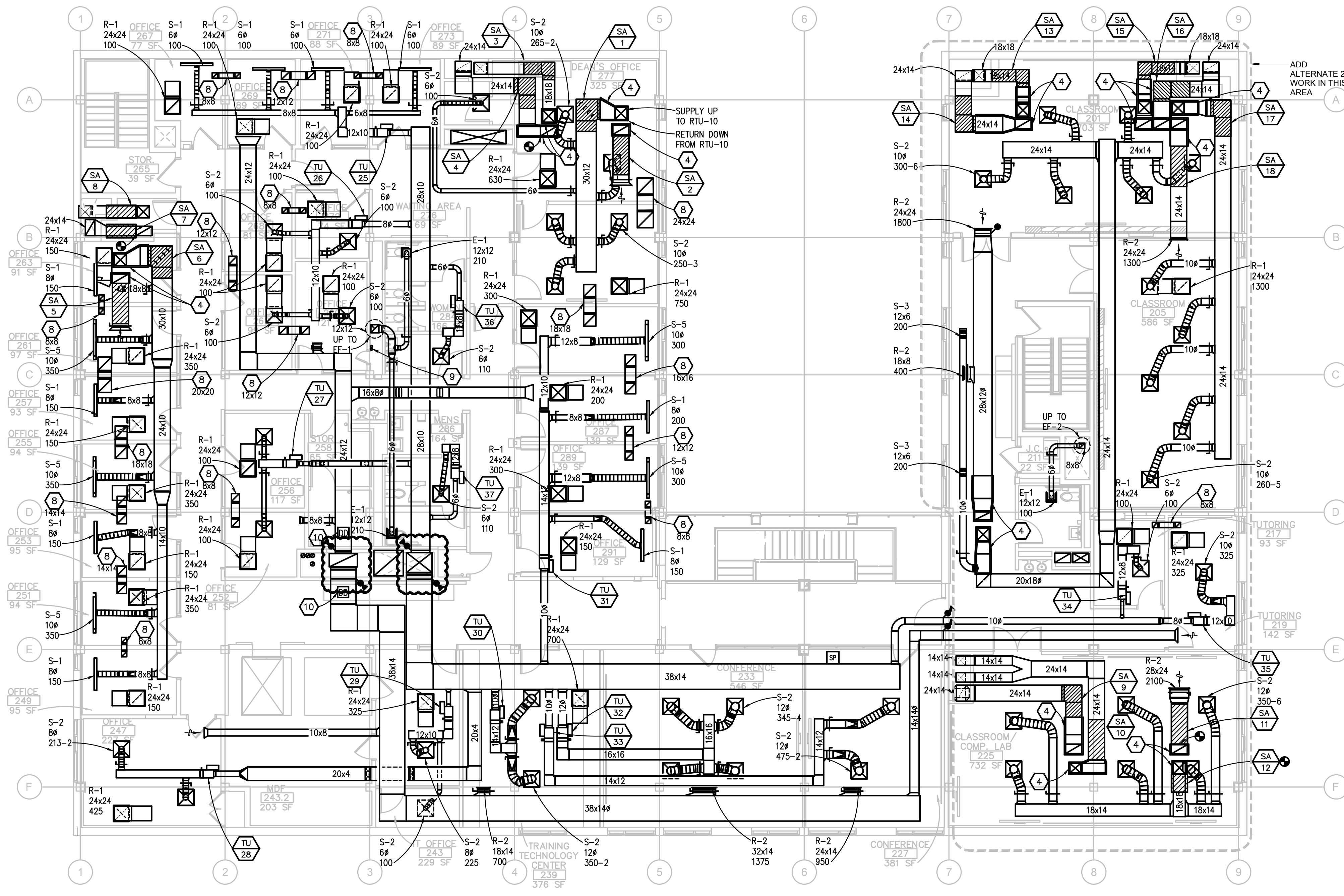


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Table with columns for revision number, description, and date. Includes entries for ADDENDUM 1, BIDS, 98% CONSTRUCTION DOCUMENTS, 50% CONSTRUCTION DOCUMENTS, DESIGN DEVELOPMENT, and SCHEMATIC DESIGN.

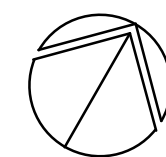
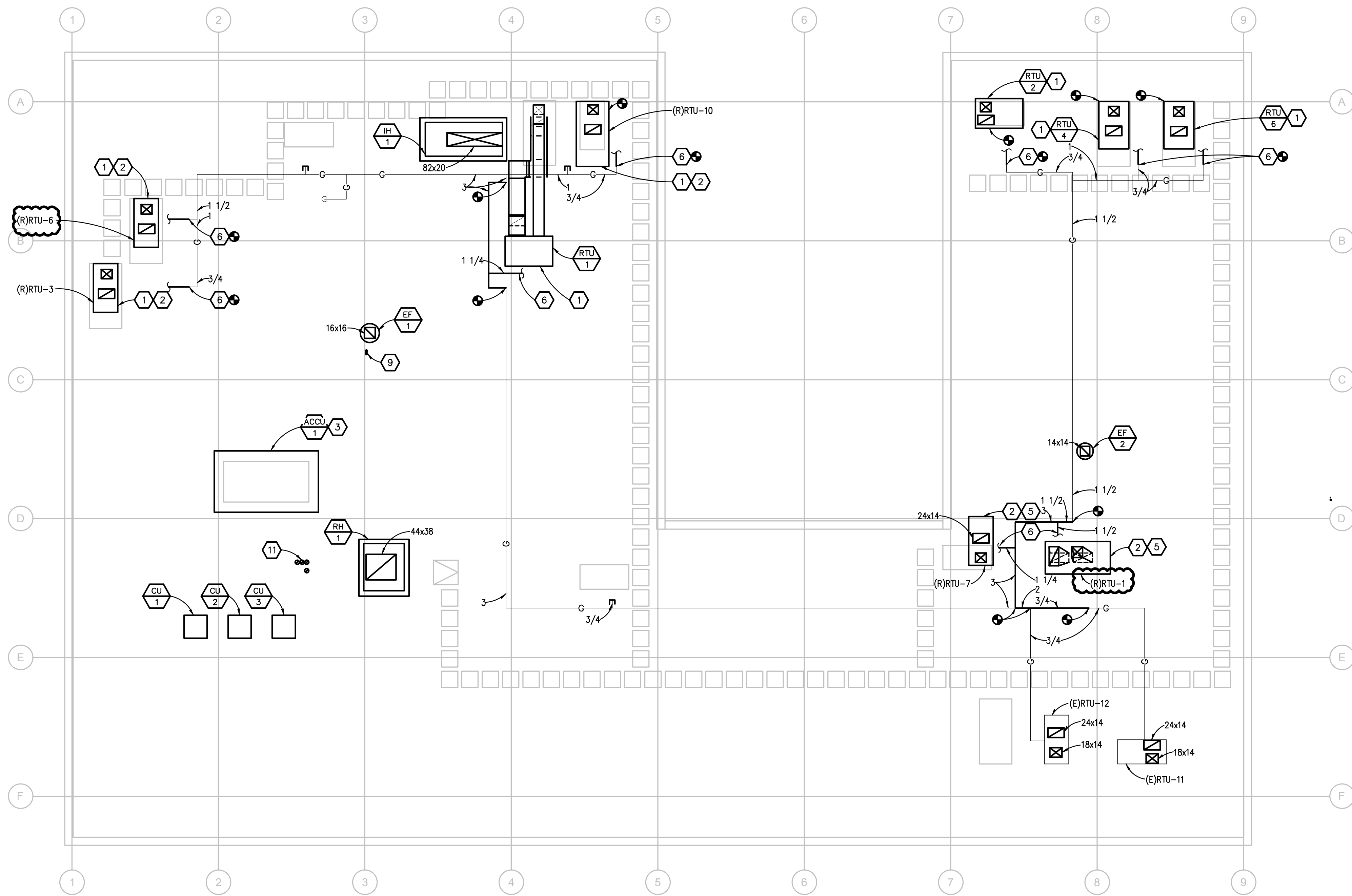
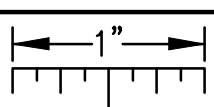
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Signature:
Drawing No: M4.2



SECOND FLOOR SHEET METAL PLAN SCALE: 1/8" = 1'-0"

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**ROOF MECHANICAL PLAN**  
SCALE: 1/8" = 1' - 0"

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Project  
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5447 Woodward, Detroit, MI  
Drawing Title  
**ROOF MECHANICAL PLAN**

Project Number: 2013088.01 | WSU Project No: 063-233732

Drawn By: JTC | Approved By: BMR

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Signature:

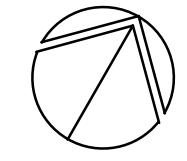
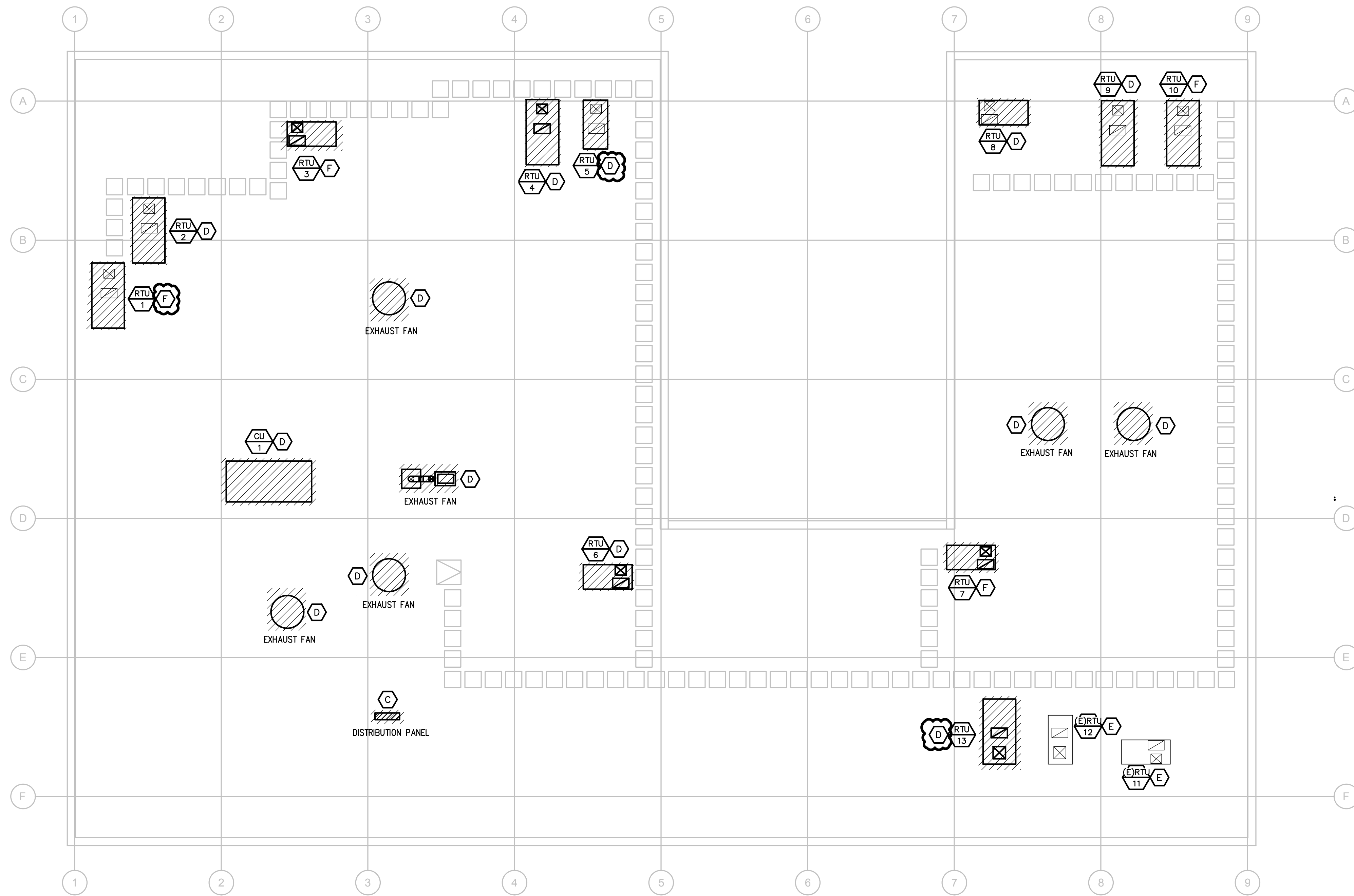
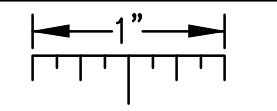
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**M4.3**

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**ROOF ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/8" = 1' - 0"

**GENERAL DEMOLITION NOTES:**

- VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
- EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- REMOVE LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES SHOWN.
- COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
- MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TOLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
- PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
- VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- COORDINATE UTILITY SHUT DOWN AND REQUIREMENTS WITH UTILITY COMPANY. PROVIDE TEMPORARY BUILDING POWER AND ALL ASSOCIATED EQUIPMENT AND CABLES AS REQUIRED TO KEEP BUILDING OPERATIONAL FOR CONSTRUCTION PURPOSES.

**# DEMOLITION NOTES:**

- A. REMOVE ELECTRICAL SYSTEM COMPONENTS AND DEVICES COMPLETE, INCLUDING, BUT NOT LIMITED TO: LIGHT FIXTURES, LIGHT SWITCHES, SWITCHBOARDS, POWER DISTRIBUTION PANELBOARDS, PANELBOARDS, RECEPTACLES, TELECOMMUNICATIONS OUTLETS, TELECOMMUNICATIONS WIRING, FIRE ALARM DEVICES, AUDIO/VISUAL SYSTEMS, JUNCTION BOXES, AND CONDUIT AND WIRING, UNLESS OTHERWISE NOTED.
- B. REMOVE DEVICE AND WIRING BACK TO SOURCE. CONDUIT AND BACK BOX TO REMAIN.
- C. REMOVE DISTRIBUTION PANEL AND FEEDER COMPLETE.
- D. REMOVAL OF UNIT BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL COMPONENTS (DISCONNECTS, STARTERS, CONDUIT AND WIRING, ETC) COMPLETE.
- E. EXISTING RTU TO REMAIN. EXISTING STARTER AND DISCONNECT TO REMAIN AS APPLICABLE. REMOVE CONDUIT AND WIRING BACK TO SOURCE.
- F. RTU RELOCATED BY OTHERS. EXISTING STARTER AND DISCONNECT TO REMAIN AS APPLICABLE. REMOVE CONDUIT AND WIRING BACK TO SOURCE.
- G. REMOVE CAMERA AND WIRING BACK TO SOURCE. CONDUIT TO REMAIN.
- H. REPLACE LIGHTING FIXTURE IN EXISTING LOCATION. REMOVE WIRING BACK TO SOURCE. CONDUIT TO REMAIN FOR RE-USE IN NEW WORK.
- I. REMOVE EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, CONDUIT AND WIRING TO REMAIN.

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**ROOF ELECTRICAL DEMOLITION PLAN**

Project Number: 2013088.01 | WSU Project No: 063-233732

Drawn By: WGH | Approved By: MSG

Scale: As indicated

Seal:

Signature: \_\_\_\_\_

Drawing No:

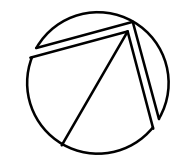
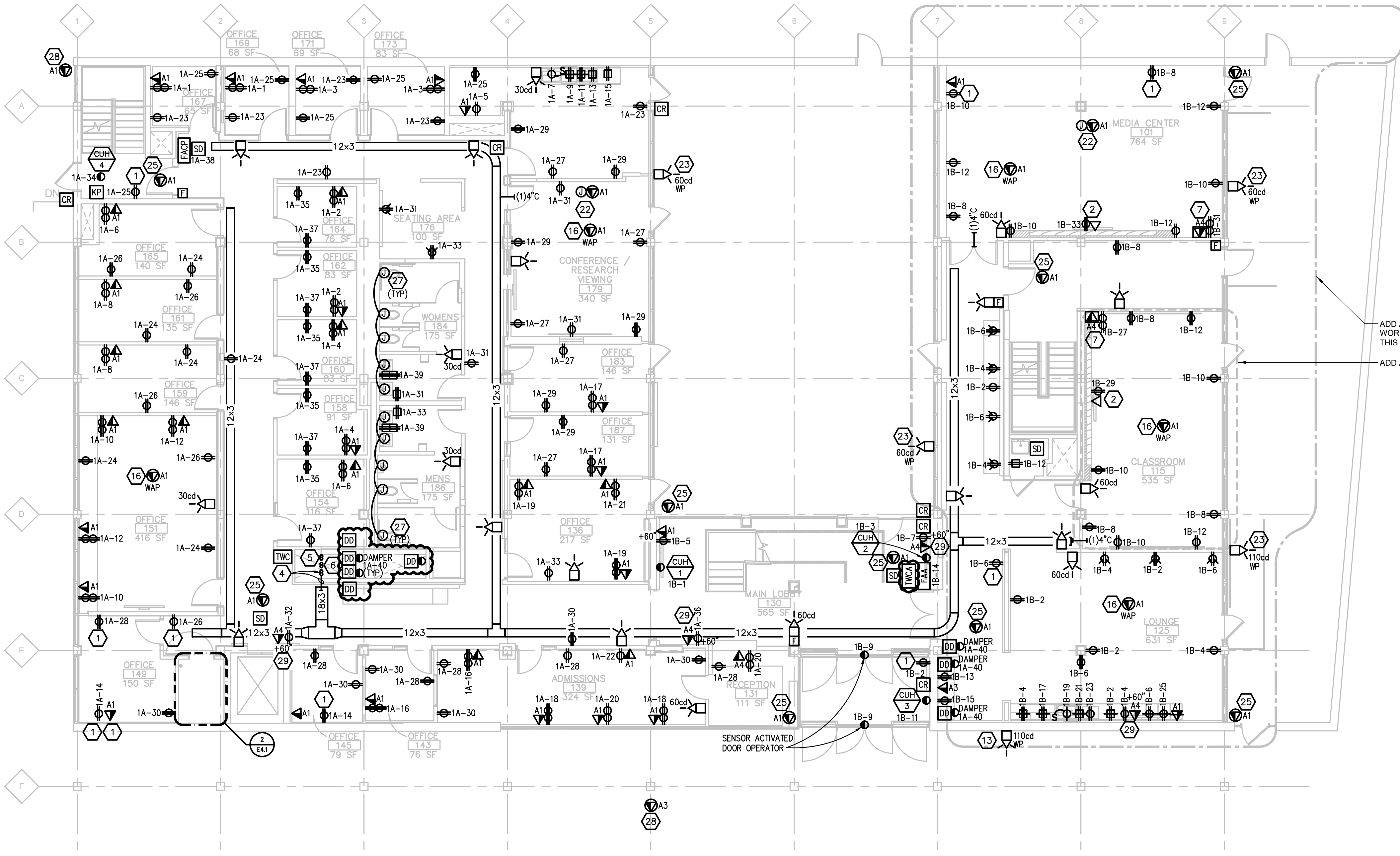
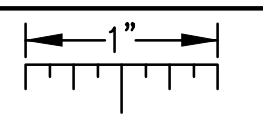
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



**FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN**  
SCALE: 1/8" = 1' - 0"

**GENERAL NOTES:**

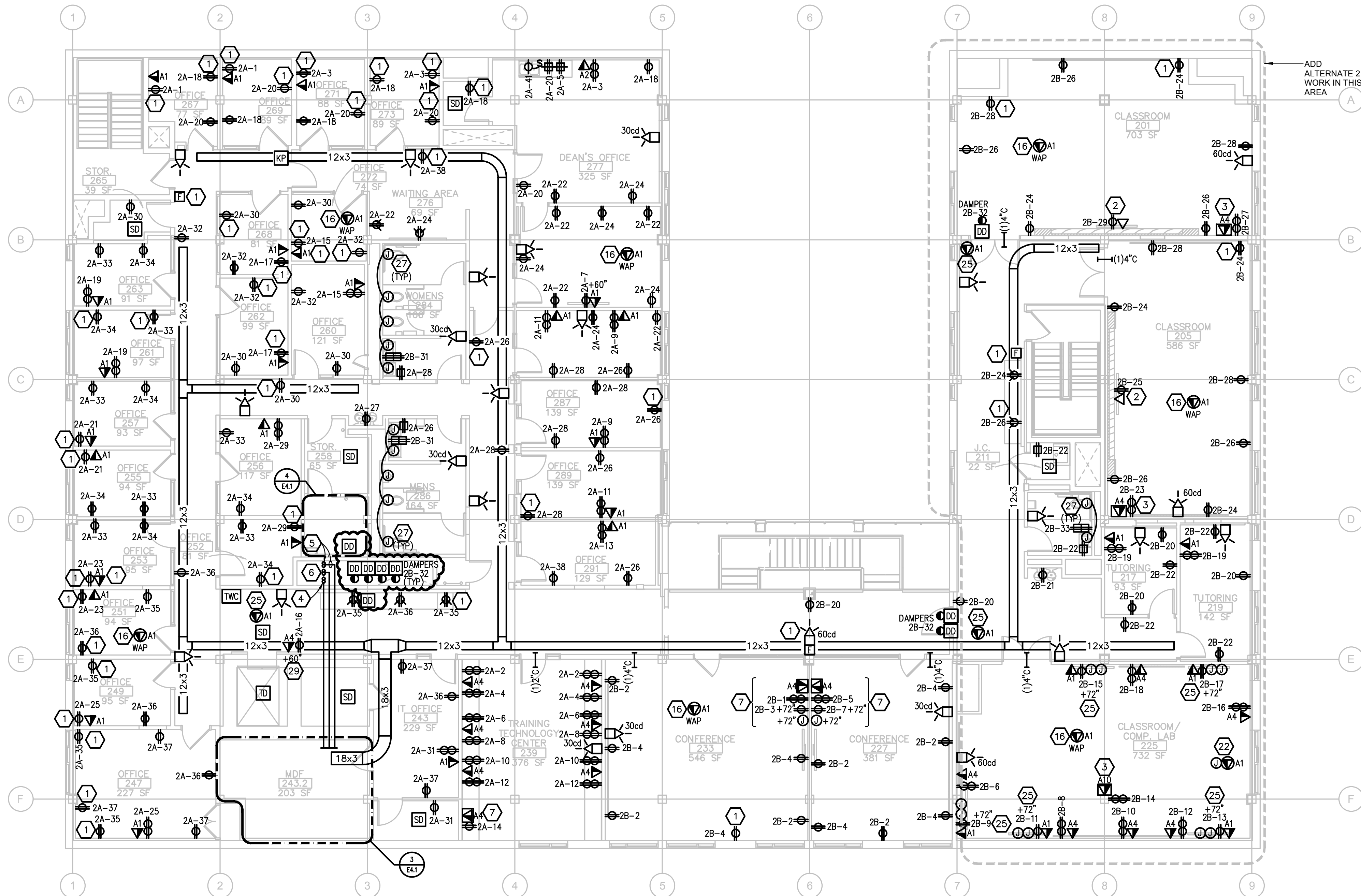
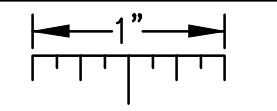
- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES AND LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT, PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- PROVIDE EXTENSION RINGS AS REQUIRED ON ALL EXISTING FIRE ALARM, RECEPTACLE, TELECOMMUNICATIONS, EMPTY, ETC. BOXES ON WALLS THAT ARE BEING FIRED OUT. EXTEND WIRING AS REQUIRED.
- PROVIDE ALL JUNCTION BOXES, CONDUIT, AND FITTINGS AS REQUIRED FOR SECURITY DEVICES. REFER TO SECURITY DRAWINGS FOR SIZES, LOCATIONS, AND ADDITIONAL REQUIREMENTS.

**CONSTRUCTION KEY NOTES:**

- PROVIDE NEW DEVICE AND WIRING. REUSE EXISTING BACK BOX AND CONDUIT.
- WALL MOUNTED MONITOR. WALL MOUNT AND MONITOR PROVIDED BY OTHERS. COORDINATE EXACT LOCATION WITH A/V DRAWINGS AND INSTALLING TRADES.
- PROVIDE FSR BOX MODEL NUMBER WB-X3-SMCRV-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- (2)"4" C FOR TELECOMMUNICATION WIRING. ROUTE CONDUIT IN SHAFT SPACE AS INDICATED ON E3.1 AND E3.2. STUB CONDUIT ABOVE FIRST FLOOR CABLE TRAY. REFER TO DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING 3.2.
- (2)"4" C FOR MAIN TELECOMMUNICATION WIRING. CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWINGS E3.1 AND E3.2. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.2.
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- PROVIDE FSR BOX MODEL NUMBER WB-X3-CVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- CIRCUIT TO DP-MECH2 IN ELECTRICAL 235-B. REFER TO DRAWING E3.2 FOR LOCATION.
- 12" WIDE CABLE RUNWAY MOUNTED 12" ABOVE TOP OF TELECOM RACK.
- DISCONNECT SWITCH FOR ELEVATOR CONTROLLER. PROVIDE SHUNT TRIP ON SWITCH SO THAT UPON ACTIVATION OF HEAT DETECTORS IN ELEVATOR SHAFT, ELEVATOR CONTROLLER CAN OPEN SWITCH. PROVIDE 2#12 AND 1#12(G) - 3/4" C. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR CAB LIGHTING. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR AND AUXILIARY CONTROLS. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- COORDINATE WITH MECHANICAL TRADES FOR SIAMESE CONNECTION LOCATION.
- REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE A ON DRAWING E8.1.
- REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE B ON DRAWING E8.1.
- WIRELESS ACCESS POINT. COIL ADDITIONAL 50' OF CABLING IN CEILING SPACE TO ALLOW FOR DEVICE RELOCATION AS REQUIRED TO ACHIEVE OPTIMAL COVERAGE. COORDINATE EXACT LOCATIONS WITH OWNER.
- EXTEND EXISTING CONDUIT AND CONDUCTORS FOR EXTERIOR LIGHTING TO NEW CONTACTOR AS REQUIRED. REFER TO BUILDING MOUNTED LIGHTING CONTROLLER DETAIL ON DRAWING E7.2 FOR CIRCUITING.
- REFER TO TWO WAY COMMUNICATION SYSTEM DIAGRAM ON DRAWING E7.2.
- PROVIDE FIRE ALARM SYSTEM COMPONENTS AS REQUIRED AND PROVIDE CABLE IN CONDUIT AND MAKE CONNECTIONS TO EACH TAMPER AND FLOW SWITCH PROVIDED WITH THE FIRE PROTECTION SYSTEM. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.
- REFER TO SPLIT SYSTEM A/C UNIT POWER WIRING DIAGRAM ON DRAWING E7.2.
- 26"L x 28"W x 7"D TELECOMMUNICATION PULLBOX.
- CEILING MOUNTED CAMERA PROVIDED BY OTHERS.
- MOUNT FIRE ALARM APPLIANCE ON EXTERIOR BRICK WITH NO EXTERIOR EXPOSED CONDUIT. COORDINATE WITH EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 4" C ROOF PENETRATION FOR AT&T CABLING. COORDINATE EXACT LOCATION OF PENETRATION WITH AT&T.
- SECURITY CAMERA PROVIDED BY OTHERS. COORDINATE WITH SECURITY DRAWINGS AND TRADES FOR EXACT LOCATION.
- REFER TO DETAIL ON DRAWING E8.2 FOR MONITORS IN COMP. LAB 225.
- PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL FOR URINAL/TOILET SENSORS. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL TRADES.
- PROVIDE NEW TELECOMMUNICATIONS WIRING IN EXISTING EXTERIOR CONDUIT FOR EXTERIOR CAMERA. SECURITY CAMERA PROVIDED BY OTHERS.
- PROVIDE (1) UTP TO ADJACENT MDF 243.2 OR IDF 043 ROOM AND (1) STP TO MDF ROOM 243.2.

ADDENDUM	DATE
ADDENDUM 1	20 JAN 2015
BIDS	19 DEC 2014
98% CONSTRUCTION DOCUMENTS	26 NOV 2014
50% CONSTRUCTION DOCUMENTS	31 OCT 2014
DESIGN DEVELOPMENT	08 OCT 2014
SCHEMATIC DESIGN	26 AUG 2014

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



**SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN**

SCALE: 1/8" = 1' - 0"

**GENERAL NOTES:**

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3. COORDINATE AND PROVIDE ACCESS DOORS WITH INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES AND LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT, PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. PROVIDE EXTENSION RINGS AS REQUIRED ON ALL EXISTING FIRE ALARM, RECEPTACLE, TELECOMMUNICATIONS, EMPTY, ETC. BOXES ON WALLS THAT ARE BEING FIRED OUT. EXTEND WIRING AS REQUIRED.
11. PROVIDE ALL JUNCTION BOXES, CONDUIT, AND FITTINGS AS REQUIRED FOR SECURITY DEVICES. REFER TO SECURITY DRAWINGS FOR SIZES, LOCATIONS, AND ADDITIONAL REQUIREMENTS.

**CONSTRUCTION KEY NOTES:**

1. PROVIDE NEW DEVICE AND WIRING. REUSE EXISTING BACK BOX AND CONDUIT.
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3. PROVIDE FSR BOX MODEL NUMBER WB-X3-SMCRV-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
4. (2)4" C FOR TELECOMMUNICATION WIRING. ROUTE CONDUIT IN SHAFT SPACE AS INDICATED ON E3.1 AND E3.2. STUB CONDUIT ABOVE FIRST FLOOR CABLE TRAY. REFER TO DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING 3.2.
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7. PROVIDE FSR BOX MODEL NUMBER WB-X3-CVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
8. CIRCUIT TO DP-MECH2 IN ELECTRICAL 235-B. REFER TO DRAWING E3.2 FOR LOCATION.
9. 12" WIDE CABLE RUNWAY MOUNTED 12" ABOVE TOP OF TELECOM RACK.
10. DISCONNECT SWITCH FOR ELEVATOR CONTROLLER. PROVIDE SHUNT TRIP ON SWITCH SO THAT UPON ACTIVATION OF HEAT DETECTORS IN ELEVATOR SHAFT, ELEVATOR CONTROLLER CAN OPEN SWITCH. PROVIDE 2#12 AND 1#12(G) - 3/4" C. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
11. PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR CAB LIGHTING. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
12. PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR AND AUXILIARY CONTROLS. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
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14. REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE A ON DRAWING E8.1.
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16. WIRELESS ACCESS POINT. COIL ADDITIONAL 50' OF CABLING IN CEILING SPACE TO ALLOW FOR DEVICE RELOCATION AS REQUIRED TO ACHIEVE OPTIMAL COVERAGE. COORDINATE EXACT LOCATIONS WITH OWNER.
17. EXTEND EXISTING CONDUIT AND CONDUCTORS FOR EXTERIOR LIGHTING TO NEW CONTACTOR AS REQUIRED. REFER TO BUILDING MOUNTED LIGHTING CONTROLLER DETAIL ON DRAWING E7.2 FOR CIRCUITING.
18. REFER TO TWO WAY COMMUNICATION SYSTEM DIAGRAM ON DRAWING E7.2.
19. PROVIDE FIRE ALARM SYSTEM COMPONENTS AS REQUIRED AND PROVIDE CABLE IN CONDUIT AND MAKE CONNECTIONS TO EACH TAMPER AND FLOW SWITCH PROVIDED WITH THE FIRE PROTECTION SYSTEM. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.
20. REFER TO SPLIT SYSTEM A/C UNIT POWER WIRING DIAGRAM ON DRAWING E7.2.
21. 26" L x 28" W x 7" D TELECOMMUNICATION PULLBOX.
22. CEILING MOUNTED CAMERA PROVIDED BY OTHERS.
23. MOUNT FIRE ALARM APPLIANCE ON EXTERIOR BRICK WITH NO EXTERIOR EXPOSED CONDUIT. COORDINATE WITH EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
24. 4" C ROOF PENETRATION FOR AT&T CABLING. COORDINATE EXACT LOCATION OF PENETRATION WITH AT&T.
25. SECURITY CAMERA PROVIDED BY OTHERS. COORDINATE WITH SECURITY DRAWINGS AND TRADES FOR EXACT LOCATION.
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Structural Engineer Desai/Nasr Consulting Engineer  
6765 Daly Rd  
West Bloomfield, MI 48322  
248.932.2010

**WAYNE STATE UNIVERSITY**

Client  
**WAYNE STATE UNIVERSITY**  
**FP&M**  
5454 Cass Avenue  
Detroit, Michigan

Key Plan

ADDENDUM 1	20 JAN 2015
BIDS	19 DEC 2014
98% CONSTRUCTION DOCUMENTS	26 NOV 2014
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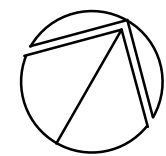
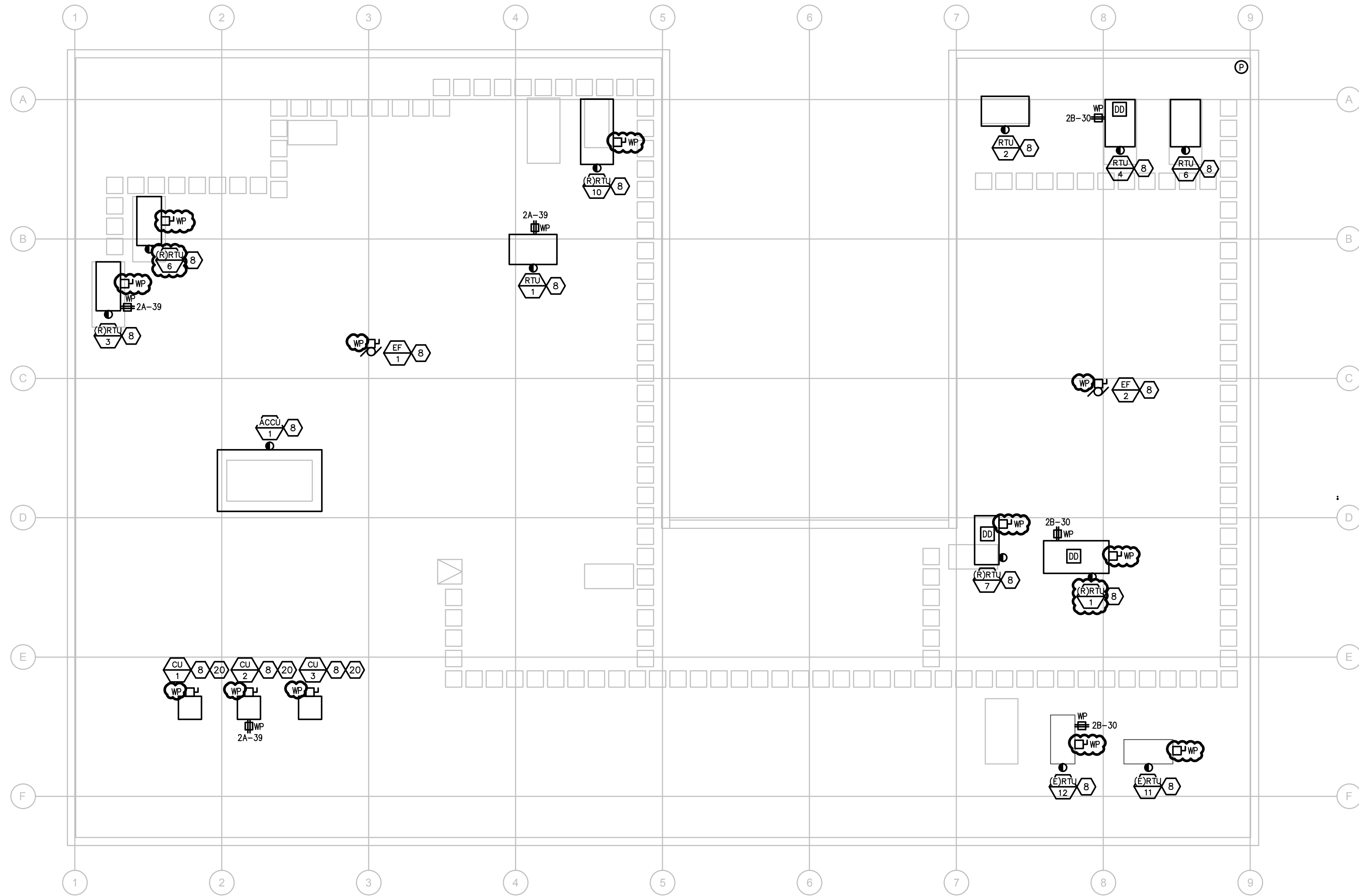
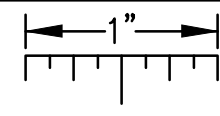
Project  
**SCHOOL OF SOCIAL WORK**  
5447 Woodward, Detroit, MI  
Drawing Title  
**SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN**

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Drawn By: WGH | Approved By: MSG  
Scale: As indicated  
Seal:

Signature: \_\_\_\_\_  
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**E3.2**

g:\2013\2013-0358-00\Cad\Cad\2013-0358-E3-PP2.dwg, E3.2, 1/15/2015 10:23:25 AM, Gerard Henrich, DMF6 ePlot.pc3, 1.76067, Peter Basso Associates Inc. © 2014 Hamilton Anderson Assoc., Inc

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- MOUNT FIRE ALARM APPLIANCE ON EXTERIOR BRICK WITH NO EXTERIOR EXPOSED CONDUIT. COORDINATE WITH EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
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- SECURITY CAMERA PROVIDED BY OTHERS. COORDINATE WITH SECURITY DRAWINGS AND TRADES FOR EXACT LOCATION.
- REFER TO DETAIL ON DRAWING E8.2 FOR MONITORS IN COMP. LAB 225.
- PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL FOR URINAL/TOILET SENSORS. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL TRADES.
- PROVIDE NEW TELECOMMUNICATIONS WIRING IN EXISTING EXTERIOR CONDUIT FOR EXTERIOR CAMERA. SECURITY CAMERA PROVIDED BY OTHERS.
- PROVIDE (1) UTP TO ADJACENT MDF 243.2 OR IDF 043 ROOM AND (1) STP TO MDF ROOM 243.2.

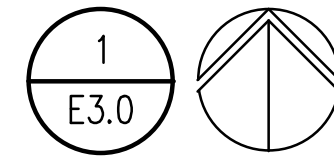
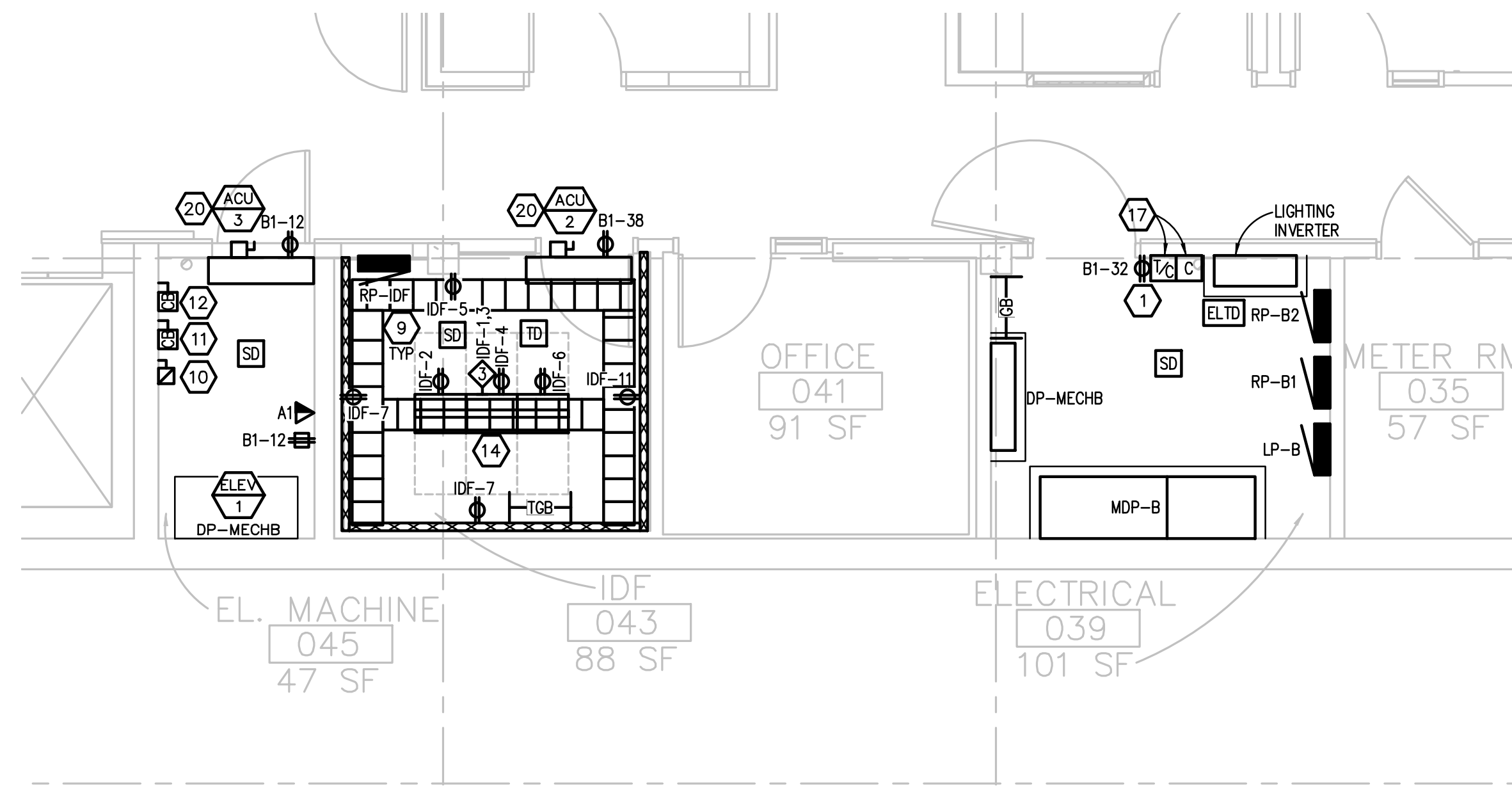
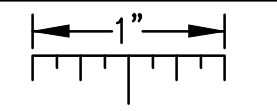
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Key Plan

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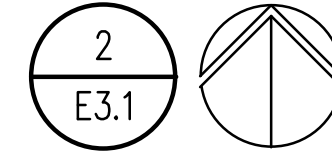
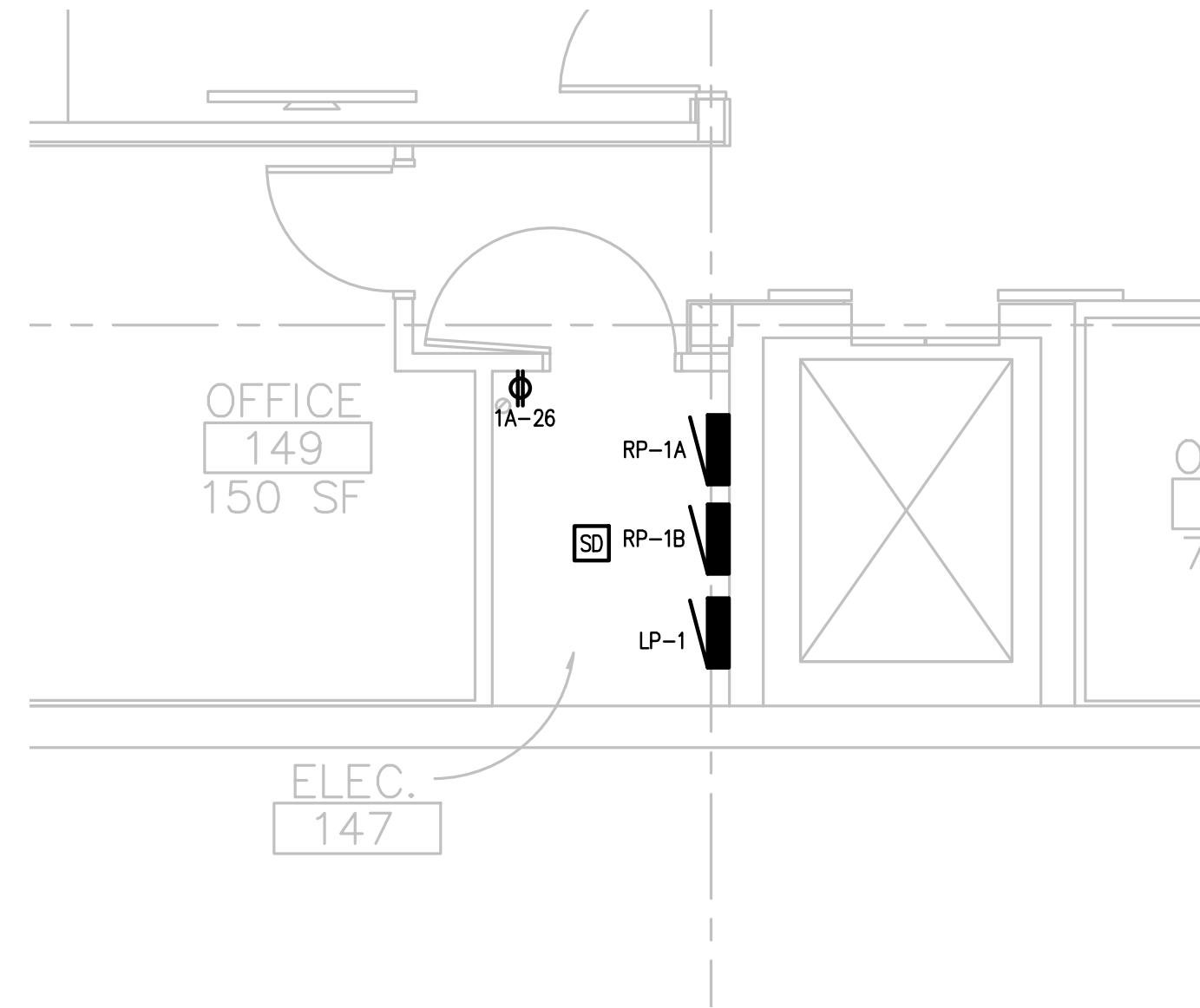
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



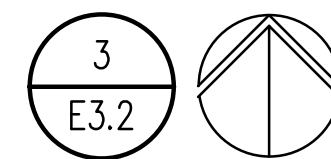
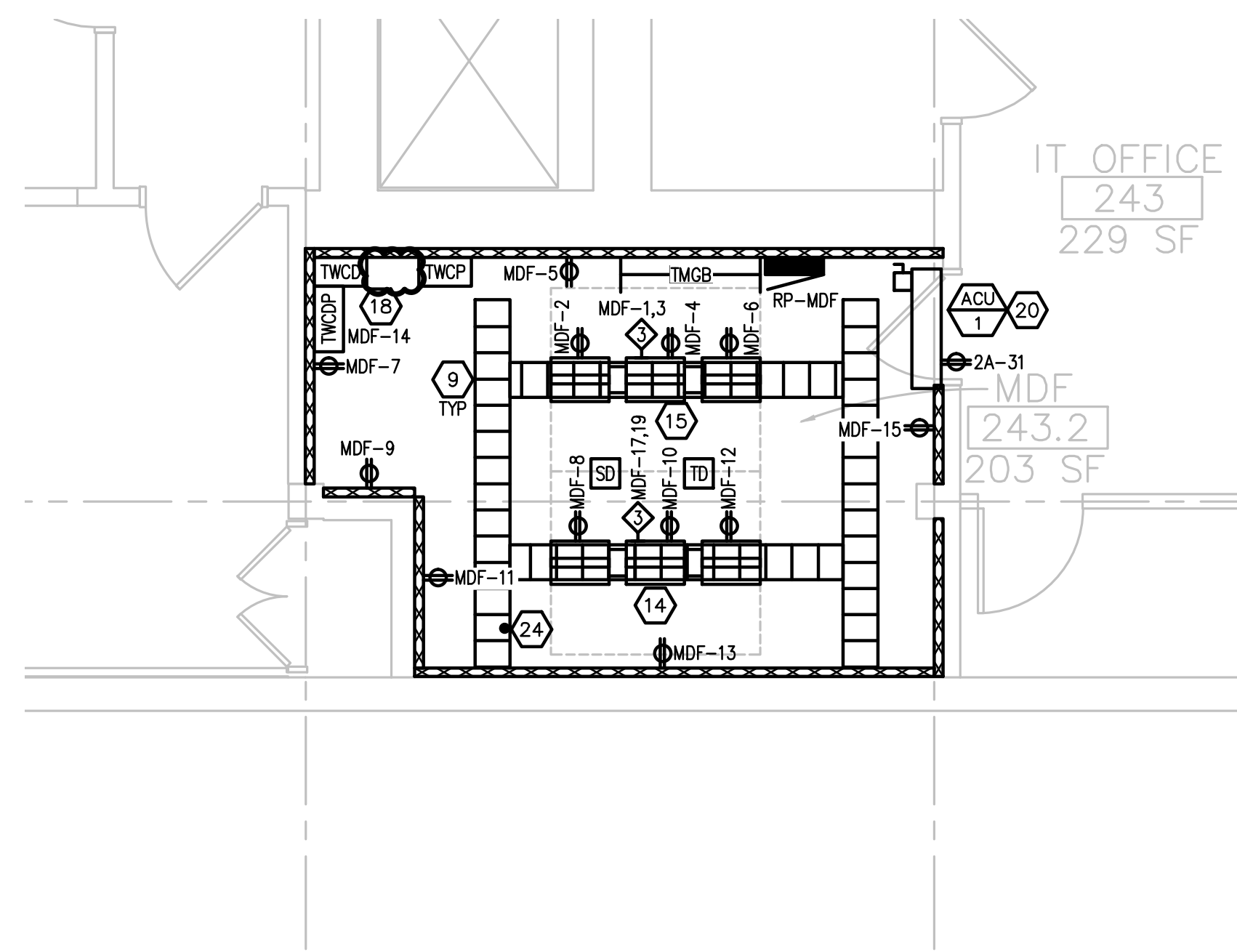
**LOWER LEVEL ELEVATOR MACHINE, IDF AND ELECTRICAL ROOMS**

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



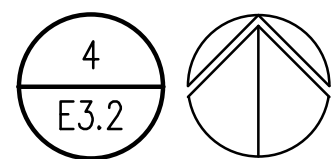
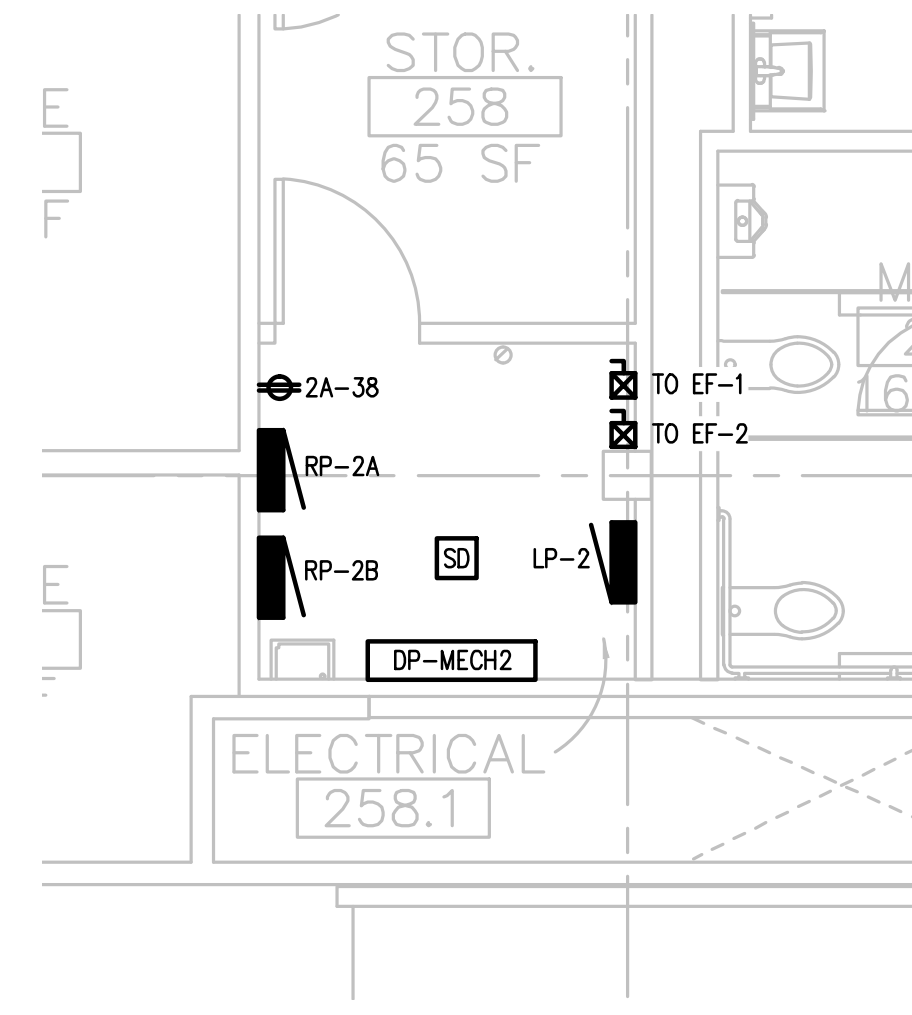
**FIRST FLOOR ELECTRICAL ROOM 147**

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



**SECOND FLOOR MDF ROOM 243.2**

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



**SECOND FLOOR ELECTRICAL ROOM 258.1**

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

**GENERAL NOTES:**

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES AND LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- PROVIDE EXTENSION RINGS AS REQUIRED ON ALL EXISTING FIRE ALARM, RECEPTACLE, TELECOMMUNICATIONS, EMPTY, ETC. BOXES ON WALLS THAT ARE BEING FIRED OUT. EXTEND WIRING AS REQUIRED.
- PROVIDE ALL JUNCTION BOXES, CONDUIT, AND FITTINGS AS REQUIRED FOR SECURITY DEVICES. REFER TO SECURITY DRAWINGS FOR SIZES, LOCATIONS, AND ADDITIONAL REQUIREMENTS.

**CONSTRUCTION KEY NOTES:**

- PROVIDE NEW DEVICE AND WIRING. REUSE EXISTING BACK BOX AND CONDUIT.
- WALL MOUNTED MONITOR. WALL MOUNT AND MONITOR PROVIDED BY OTHERS. COORDINATE EXACT LOCATION WITH A/V DRAWINGS AND INSTALLING TRADES.
- PROVIDE FSR BOX MODEL NUMBER WB-X3-SMCR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- (2)4" C FOR TELECOMMUNICATION WIRING. ROUTE CONDUIT IN SHAFT SPACE AS INDICATED ON E3.1 AND E3.2. STUB CONDUIT ABOVE FIRST FLOOR CABLE TRAY. REFER TO DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING 3.2.
- (2)4" C FOR MAIN TELECOMMUNICATION WIRING. CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWINGS E3.1 AND E3.2. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.2.
- (2)4" C FOR TELECOMMUNICATION WIRING. CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF IDF 043. REFER TO DRAWING E3.0. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.1.
- PROVIDE FSR BOX MODEL NUMBER WB-X3-CVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- CIRCUIT TO DP-MECH2 IN ELECTRICAL 235-B. REFER TO DRAWING E3.2 FOR LOCATION.
- 12" WIDE CABLE RUNWAY MOUNTED 12" ABOVE TOP OF TELECOM RACK.
- DISCONNECT SWITCH FOR ELEVATOR CONTROLLER. PROVIDE SHUNT TRIP ON SWITCH SO THAT UPON ACTIVATION OF HEAT DETECTORS IN ELEVATOR SHAFT, ELEVATOR CONTROLLER CAN OPEN SWITCH. PROVIDE 2#12 AND 1#1/2(G) - 3/4" C. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR CAB LIGHTING. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR AND AUXILIARY CONTROLS. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- COORDINATE WITH MECHANICAL TRADES FOR SIAMESE CONNECTION LOCATION.
- REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE A ON DRAWING E8.1.
- REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE B ON DRAWING E8.1.
- WIRELESS ACCESS POINT. COIL ADDITIONAL 50' OF CABLING IN CEILING SPACE TO ALLOW FOR DEVICE RELOCATION AS REQUIRED TO ACHIEVE OPTIMAL COVERAGE. COORDINATE EXACT LOCATIONS WITH OWNER.
- EXTEND EXISTING CONDUIT AND CONDUCTORS FOR EXTERIOR LIGHTING TO NEW CONTRACTOR AS REQUIRED. REFER TO BUILDING MOUNTED LIGHTING CONTROLLER DETAIL ON DRAWING E7.2 FOR CIRCUITING.
- REFER TO TWO WAY COMMUNICATION SYSTEM DIAGRAM ON DRAWING E7.2.
- PROVIDE FIRE ALARM SYSTEM COMPONENTS AS REQUIRED AND PROVIDE CABLE IN CONDUIT AND MAKE CONNECTIONS TO EACH TAMPER AND FLOW SWITCH PROVIDED WITH THE FIRE PROTECTION SYSTEM. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.
- REFER TO SPLIT SYSTEM A/C UNIT POWER WIRING DIAGRAM ON DRAWING E7.2.
- 26"L x 28"W x 7"D TELECOMMUNICATION PULLBOX.
- CEILING MOUNTED CAMERA PROVIDED BY OTHERS.
- MOUNT FIRE ALARM APPLIANCE ON EXTERIOR BRICK WITH NO EXTERIOR EXPOSED CONDUIT. COORDINATE WITH EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 4" C ROOF PENETRATION FOR AT&T CABLING. COORDINATE EXACT LOCATION OF PENETRATION WITH AT&T.
- SECURITY CAMERA PROVIDED BY OTHERS. COORDINATE WITH SECURITY DRAWINGS AND TRADES FOR EXACT LOCATION.
- REFER TO DETAIL ON DRAWING E8.2 FOR MONITORS IN COMP. LAB 225.
- PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL FOR URINAL/TOILET SENSORS. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL TRADES.
- PROVIDE NEW TELECOMMUNICATIONS WIRING IN EXISTING EXTERIOR CONDUIT FOR EXTERIOR CAMERA. SECURITY CAMERA PROVIDED BY OTHERS.
- PROVIDE (1) UTP TO ADJACENT MDF 243.2 OR IDF 043 ROOM AND (1) STP TO MDF ROOM 243.2.

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**WAYNE STATE UNIVERSITY**

Client  
**WAYNE STATE UNIVERSITY  
FP&M**  
5454 Cass Avenue  
Detroit, Michigan

Key Plan

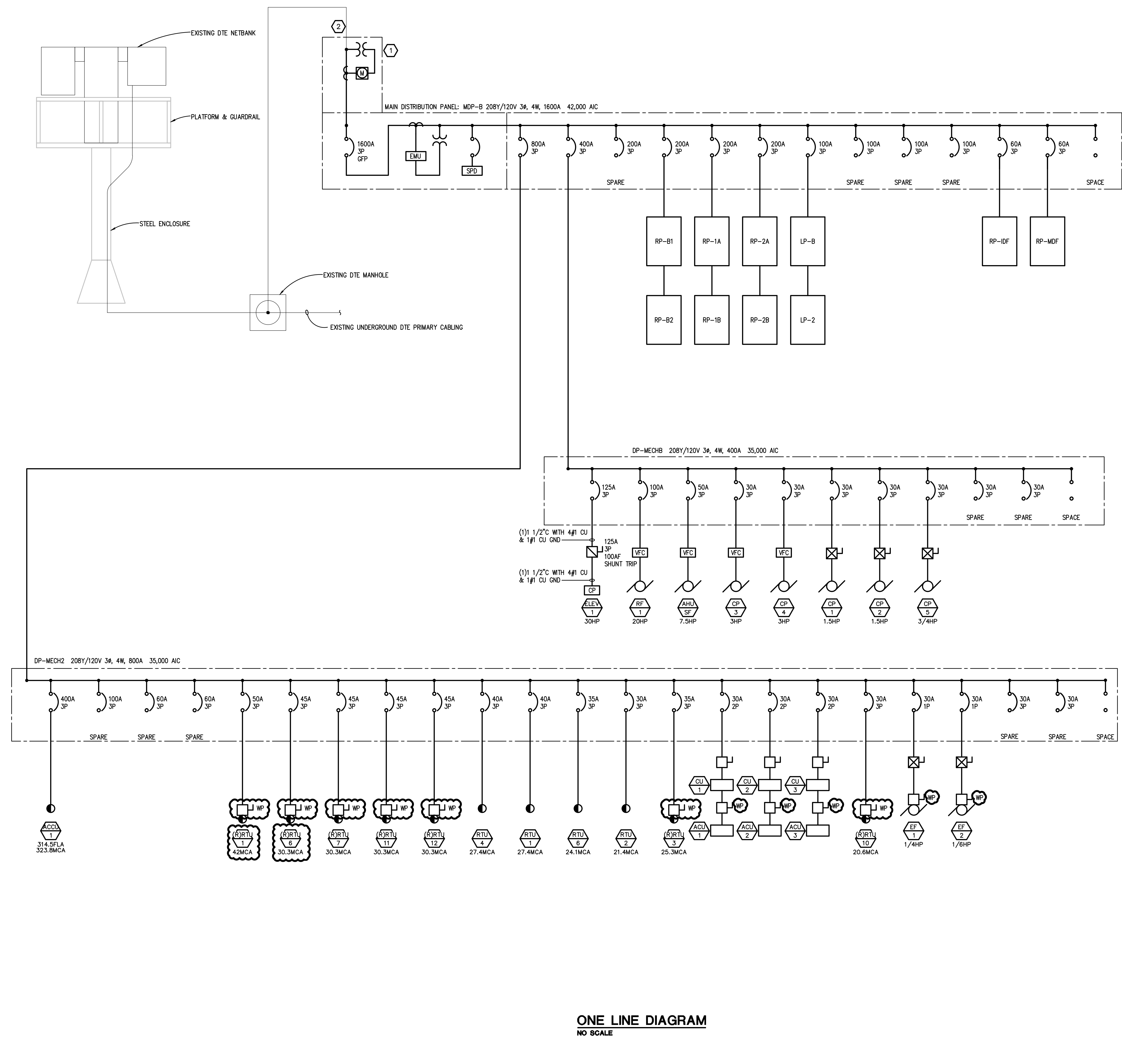
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Project  
**SCHOOL OF SOCIAL WORK**  
5447 Woodward, Detroit, MI  
Drawing Title  
**ENLARGED ELECTRICAL PLANS**

Project Number: 2013088.01 | WSU Project No: 063-233732  
Drawn By: WGH | Approved By: MSG  
Scale: As indicated  
Seal:

Signature: \_\_\_\_\_  
Drawing No:  
**E4.1**

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**ONE LINE DIAGRAM**  
NO SCALE

**GENERAL NOTES:**

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "TRANSFORMER CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- BASIS OF DESIGN IS SQUARE D DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE EQUIPMENT MEETING THE SPECIFICATIONS AND ACHIEVING CODE REQUIRED CLEARANCES WITHIN THE SPACE PROVIDED.
- SELECTIVE COORDINATION (PER NEC ARTICLE 700.27) IS BASED ON SQUARE D DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. ELECTRICAL CONTRACTOR SHALL SUBMIT SELECTIVE COORDINATION STUDY WITH TIME CURRENT CHARACTERISTIC CURVES (AND TABLES FOR TESTED PAIR INSTANTANEOUS COORDINATION) FOR THE EMERGENCY SYSTEMS. ELECTRICAL CONTRACTORS SHALL RECEIVE APPROVED SHOP DRAWINGS BACK FROM ENGINEER OF RECORD PRIOR TO PURCHASING OR INSTALLING ANY ELECTRICAL DISTRIBUTION EQUIPMENT. BREAKERS MUST BE COORDINATED WITH AUTOMATIC TRANSFER SWITCHES 3-CYCLE WITHSTAND RATING. ALTERNATE MANUFACTURERS SHALL MEET SELECTIVE COORDINATION CRITERIA AT NO ADDITIONAL COST TO THE PROJECT.
- BRANCH CIRCUIT CONDUCTORS, FEEDERS, AND BRANCH CIRCUIT OVERCURRENT PROTECTION ARE SIZED AT 125% OF THE TOTAL CONTINUOUS AND NON CONTINUOUS LOAD FOR LIGHTING AND MOTOR LOADS THAT RUN CONTINUOUSLY FOR THREE HOURS OR MORE (NEC 210.19 A, 210.20 A, AND 215.2 A). DEMAND AND CONNECTED LOADS ARE CALCULATED PER NEC 220.
- VARIABLE FREQUENCY CONTROLLERS (VFC) PROVIDED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC, AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.
- COORDINATE UTILITY SHUT DOWN AND REQUIREMENTS WITH UTILITY COMPANY. PROVIDE TEMPORARY BUILDING POWER AND ALL ASSOCIATED EQUIPMENT AND CABLES AS REQUIRED TO KEEP BUILDING OPERATIONAL FOR CONSTRUCTION PURPOSES.

**CONSTRUCTION KEY NOTES:**

- DTE METERING CABINET WITHIN NEW SWITCHBOARD. PROVIDE DTE METERING (PARK DETROIT, OR ENGINEER APPROVED EQUAL). COORDINATE EXACT REQUIREMENTS WITH DTE.
- RE-CONNECT EXISTING DTE SECONDARY CABLING. COORDINATE EXACT REQUIREMENTS WITH DTE.

**FEEDER DEMAND LOAD CALCULATION**

MDP-B (208Y/120 3φ 4W)	
CONTINUOUS LOADS	
DP-MECHB (208Y/120V)	
AHU-1	8.7 kVA
RF-1	21.4 kVA
CP-3	3.8 kVA
CP-4	3.8 kVA
CP-1	2.4 kVA
CP-2	2.4 kVA
CP-5	1.3 kVA
ELEV-1	31.7 kVA
SUM	75.5 kVA
x125%	94.4 kVA
DP-MECH2 (208Y/120V)	
RTU-1	8.9 kVA
RTU-2	6.9 kVA
RTU-4	8.9 kVA
RTU-6	7.8 kVA
RTU-3	8.2 kVA
RTU-5	9.8 kVA
RTU-7	9.8 kVA
RTU-10	6.7 kVA
RTU-11	9.8 kVA
RTU-12	9.8 kVA
RTU-13	13.6 kVA
ACU-1	113.3 kVA
EF-1	0.7 kVA
EF-2	0.5 kVA
CU-1	3.8 kVA
CU-2	3.8 kVA
CU-3	2.8 kVA
SUM	225.3 kVA
x125%	281.6 kVA
NON-CONTINUOUS LOADS (DEMAND FACTORS ALREADY ACCOUNTED FOR IN PANEL SCHEDULES)	
LP-B	14.1 kVA
LP-2	4.5 kVA
RP-B1	24.3 kVA
RP-B2	12.8 kVA
RP-1A	25.1 kVA
RP-1B	16.0 kVA
RP-2A	24.6 kVA
RP-2B	14.3 kVA
RP-IDF	8.5 kVA
RP-MDF	12.8 kVA
SUM	157.0 kVA
TOTAL DEMAND LOAD	533.0 kVA

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**WAYNE STATE UNIVERSITY**  
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