

# Wayne State University Cohn Building Student Commons

5557 Cass Ave, Detroit, MI 48202

Issued for Permits and Bids - October 31, 2019  
WSU Project Number: 048-291367



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### DRAWING INDEX

GENERAL		MECHANICAL	
G101	COVER SHEET	M001	GENERAL NOTES AND LEGEND
LS101	LIFE SAFETY PLANS	MD101	MECHANICAL AND PLUMBING DEMOLITION PLAN
ARCHITECTURAL		M201	MECHANICAL PLAN
A001	GENERAL NOTES/BF DETAILS	M501	SCHEDULES AND DETAILS
AD101	THIRD FLOOR DEMOLITION PLAN	ELECTRICAL	
AD711	THIRD FLOOR REFLECTED CEILING DEMOLITION PLAN	E001	LEGENDS AND GENERAL NOTES
A101	THIRD FLOOR PLAN	ED101	THIRD FLOOR ELECTRICAL DEMOLITION AND COMPOSITE PLANS
A201	DOOR SCHEDULE & WALL TYPES	E101	THIRD FLOOR LIGHTING PLAN
A501	DETAILS	E201	THIRD FLOOR POWER AND SYSTEMS PLAN
A502	DETAILS	E401	PANEL SCHEDULES
A701	FLOOR FINISH PLANS	E501	ELECTRICAL DETAILS
A702	FINISH LEGEND AND ROOM FINISH SCHEDULE		
A711	THIRD FLOOR REFLECTED CEILING PLAN		
A721	INTERIOR ELEVATIONS		

### GENERAL ABBREVIATIONS

ACM	ALUMINUM COMPOSITE MATERIAL	EF	EXHAUST FAN	IN	INCH-INCHES	NRC	NOISE REDUCTION COEFFICIENT	SGT	STRUCTURAL GLAZED TILE
AFF	ABOVE FINISHED FLOOR	EL	ELEVATION	INSUL	INSULATION	NTS	NOT TO SCALE	SIM	SIMILAR
AHU	AIR HANDLING UNIT	EJ	EXPANSION JOINT	LAV	LAVATORY	OC	ON CENTER	SP	SPACE/SPACING
AL	ALUMINUM	EQ	EQUAL	LED	LIGHT EMITTING DIODE	OD	OUTSIDE DIAMETER	SQ	SQUARE
ALT	ALTERNATE	EWC	ELECTRIC WATER COOLER	LLH	LONG LEG HORIZONTAL	OH	OVERHEAD	SS	STAINLESS STEEL
BF	BARRIER FREE	FD	FLOOR DRAIN	LLV	LONG LEG VERTICAL	OS	OUTSIDE	STD	STANDARD
BRG	BEARING	FRT	FIRE RETARDANT TREATED	LP	LOW POINT	OPP	OPPOSITE	TAN	TANGENT
CJ	CONTROL JOINT	FT	FOOT/FEET	MFR	MANUFACTURER	ORD	OVERFLOW ROOF DRAIN	TYP	TYPICAL
CL	CENTERLINE	GA	GAUGE/GAGE	MAX	MAXIMUM	OS	OUTSIDE	UL	UNDERWRITER'S LABORATORY
CW	CURTAINWALL	GALV	GALVANIZED	MEZZ	MEZZANINE	PERP	PERPENDICULAR	UNO	UNLESS NOTED OTHERWISE
CLG	CEILING	GC	GENERAL CONTRACTOR	MIN	MINIMUM	PL	PLATE	VERT	VERTICAL
CMU	CONCRETE MASONRY UNIT	HB	HOSE BIBB	MO	MASONRY OPENING	PSF	POUNDS PER SQUARE FOOT	VTR	VENT THROUGH ROOF
CO	CLEANOUT	HP	HIGH POINT	MTD	MOUNTED	W	WITH	WC	WATER CLOSET
CONC	CONCRETE	HR	HORIZONTAL	N/A	NOT APPLICABLE	WC	WATER CLOSET	WH	WATER HEATER
CONST	CONSTRUCTION	HVAC	HEATING VENTILATING AIR CONDITIONING	NC	NOISE CRITERIA	WO	WITHOUT	WP	WEATHERPROOF
CONT	CONTINUOUS	IE	INVERT ELEVATION	NO	NOT IN CONTRACT	R	RADIUS	WO	WITHOUT
DIA	DIAMETER	ID	INSIDE DIAMETER	NO	NUMBER	REQD	REQUIRED	WP	WEATHERPROOF
DN	DOWN	IE	INVERT ELEVATION			RD	ROOF DRAIN	WT	WEIGHT
DS	DOWNSPOUT	IMP	INSULATED METAL PANEL			SCH	SCHEDULE		
						SF	SQUARE FOOT		

### GRAPHIC SYMBOLS

#### SECTION CUT LINE



#### ELEVATION, SECTION AND DETAIL DESIGNATION



#### PLAN DESIGNATION



#### EXTERIOR ELEVATION TAG



#### INTERIOR ELEVATION TAG



#### NORTH ARROW DESIGNATION



#### ROOM NAME AND NUMBER



#### ENLARGED DETAIL FRAME



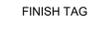
#### ELEVATION TARGET



#### ELEVATION TAG



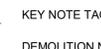
#### SIGNAGE TAG



#### FINISH TAG



#### BULLETIN IDENTIFICATION



#### ADDENDUM IDENTIFICATION



#### SKETCH IDENTIFICATION



#### BARRIER FREE LOCATION



#### KEY NOTE TAG



#### DEMOLITION NOTE TAG



### PROJECT INFORMATION

#### SCOPE OF WORK

THIS PROJECT RENOVATES ROOM 328 AND 330, ON THE THIRD FLOOR OF THE WAYNE STATE UNIVERSITY'S RICHARD COHN BUILDING IN DETROIT, MICHIGAN. SCOPE INCLUDES ARCHITECTURAL, FIRE ALARM, ELECTRICAL, AND MECHANICAL UPGRADES AND RECONFIGURATION FOR NEW STUDENT COMMONS SPACE THAT WILL TAKE OVER BOTH ROOMS 328 AND 330. THE SPACE WILL RECEIVE NEW FINISHES AND FURNITURE.

THIS PROJECT WILL BE ISSUED UNDER TWO SEPARATE RFP'S AND IN TURN TWO SEPERATE CONTRACTS.  
1. GENERAL CONTRACTING CONTRACT  
2. FURNITURE, FURNISHINGS, AND EQUIPMENT CONTRACT FOR THE PROCURMENT AND INSTALLATION OF THE FURNITURE PACKAGE SPECIFIED IN SECTION 125000

THE RESPONSIBILITY OF EACH CONTRACT: OWNER, GENERAL CONTRACTOR, AND FURNITURE VENDOR IS DEFINED UNDER SECTION 011100

#### PROJECT NOTES

- IN CASE OF A DIMENSIONAL QUESTION OR DISCREPANCY, SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE CONSTRUCTION COORDINATOR.
- ONE HOUR FIRE RATED TEMPORARY CONSTRUCTION PARTITIONS SHALL BE UTILIZED WHEN CONSTRUCTION DURATION EXCEEDS 48 HOURS. PLASTIC BARRIERS ARE ACCEPTABLE WHEN CONSTRUCTION DURATION IS LESS THAN 48 HOURS. STICKY WALK-OFF DUST MATS SHALL BE PROVIDED AT ALL ENTRANCES TO CONSTRUCTION SITES.
- SUBMIT ALL CHANGE ORDERS TO PROJECT MANAGER AND SECURE PROJECT MANAGER'S APPROVAL PRIOR TO THE COMMENCEMENT OF WORK.

#### PROJECT SEQUENCING

THE PROJECT IS INTENDED TO BE COMPLETED IN ONE PHASE.

#### PROJECT DIRECTORY

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Drawn By JP

Designer YF/CT

Reviewer WTB

Manager VJM

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PROJECT NO.

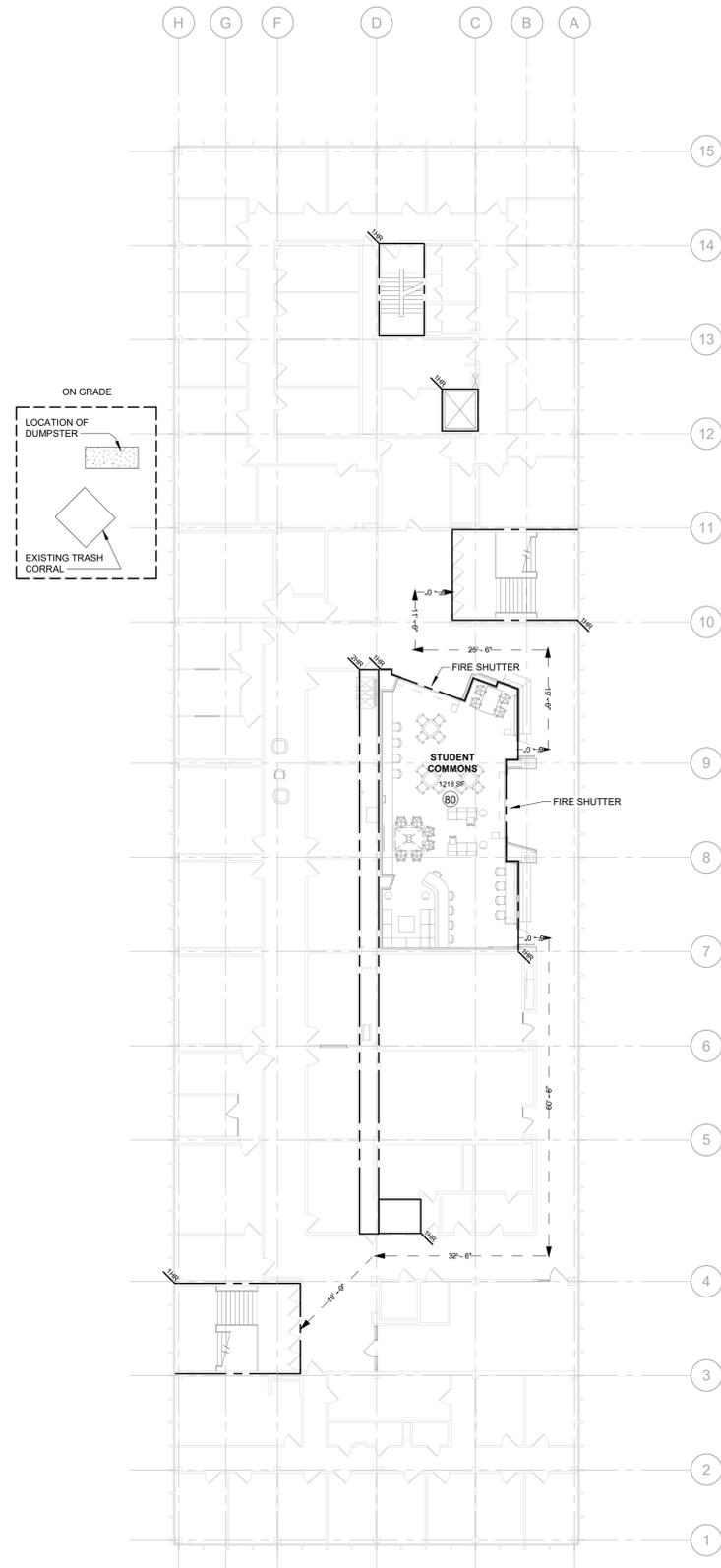
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COVER SHEET

G101

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**THIRD FLOOR LIFE SAFETY PLAN**  
SCALE: 1/16" = 1'-0"  
NORTH

**BUILDING CODE INFORMATION**

THE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FOLLOWING CODES, NOTIFY THE ARCHITECT OF ANY CONFLICTS

- CODES**
- 2012 NFPA 101 LIFE SAFETY CODE
  - 2015 MICHIGAN REHABILITATION CODE (AS AMENDED) - Chapters 7 & 8
  - 2015 MICHIGAN MECHANICAL CODE (AS AMENDED)
  - 2015 MICHIGAN PLUMBING CODE (AS AMENDED)
  - 2017 NATIONAL ELECTRIC CODE (NEC) (AS AMENDED - MICHIGAN AMENDMENTS PART 8 RULES)
  - 2015 MICHIGAN ENERGY CODE
  - INTERNATIONAL ENERGY CONSERVATION CODE - 2009, SECTION 501.1
  - ANSI/ASHRAE/IESNA STANDARD 90.1-2007 (AS AMENDED)
  - 2015 INTERNATIONAL FIRE CODE
  - BARRIER FREE REQUIREMENTS: AMERICANS WITH DISABILITIES ACT (ADA) - MBC-2015, CHAPTER 11
  - ICC A117.1-2009, EXCEPT SECTIONS 611 & 707

**ITEM** CLASSIFICATION TYPE (MRC-CHAPTER 5)

LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

**BUILDING USE GROUP** MIXED USE NON-SEPARATED: B - BUSINESS / A-3 - ASSEMBLY (MBC-SEC. 304)

**TYPE OF CONSTRUCTION** CONSTRUCTION TYPE: I(A) (ASSUMED) NON-SPRINKLERED (MBC-SEC. 602) TYPE II (II) (ASSUMED) NON-SPRINKLERED (NFPA 7.2.1.1)

**FIRE RESISTANCE RATINGS OF STRUCTURAL ELEMENTS**

ITEM	RATING (HOURS)	UL NO.	REMARKS
STRUCTURAL FRAME	1	EXISTING	(TABLE 601)
BEARING WALLS - EXT. INT.	1	EXISTING	(TABLE 601)
NONBEARING WALLS - EXT. INT.	0	EXISTING	(TABLE 601)
FLOOR CONSTRUCTION	1	EXISTING	(TABLE 601)
ROOF CONSTRUCTION	1	EXISTING	(TABLE 601)
SHAFT ENCLOSURES	2	EXISTING	(SEC. 713.4)
STAIR ENCLOSURES	1	EXISTING	(SEC. 1023.2)
CORRIDOR WALLS IN AREA OF RENOVATION	1	U419	(NFPA 8.3.3.11)

**OCCUPANCY**  
**OCCUPANT LOAD:**  
2012 NFPA 101 LIFE SAFETY CODE, TABLE 7.3.1.2  
2015 MICHIGAN BUILDING CODE, TABLE 1004.1.2  
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) 1 / 15 NET (IN AREA OF RENOVATION)

**CURRENT BUILDING OCCUPANCY (ASSUMED):**  
GROUND FLOOR: 208 OCC  
FIRST FLOOR: 209 OCC  
SECOND FLOOR: 209 OCC  
THIRD FLOOR: 209 OCC  
TOTAL: 835 OCC

**OCCUPANTS ADDED BY RENOVATION:**  
GROUND FLOOR: 0 OCC  
FIRST FLOOR: 0 OCC  
SECOND FLOOR: 0 OCC  
THIRD FLOOR: 63 OCC  
TOTAL: 63 OCC

**PROPOSED BUILDING OCCUPANCY INCLUDING RENOVATION:**  
GROUND FLOOR: 208 OCC  
FIRST FLOOR: 209 OCC  
SECOND FLOOR: 209 OCC  
THIRD FLOOR: 272 OCC  
TOTAL: 898 OCC

THE PROPOSED BUILDING OCCUPANCY HAS INCREASED BY 7.5%  
**PLUMBING FIXTURE REQUIREMENTS:**  
PER THE MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS, SECTION 810 MINIMUM FIXTURES, WHERE THE OCCUPANT LOAD OF THE STORY IS INCREASED BY MORE THAN 20 PERCENT, PLUMBING FIXTURES FOR THE STORY SHALL BE PROVIDED IN QUANTITIES SPECIFIED IN THE INTERNATIONAL PLUMBING CODE BASED ON INCREASED OCCUPANT LOAD.

PROJECT COMPLIES: NO MODIFICATIONS TO THE PLUMBING FIXTURE COUNT IS REQUIRED.

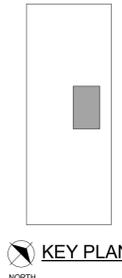
**MEANS OF EGRESS IN WORK AREAS:**  
A MINIMUM OF TWO MEANS OF EGRESS ARE PROVIDED FROM ALL RENOVATION AREAS.

COMMON PATH OF TRAVEL: 75' WITHOUT SPRINKLERS (TABLE 1006.2.1)  
PROJECT COMPLIES (MBC) (NFPA)

EXIT ACCESS TRAVEL DISTANCE: 200' WITHOUT SPRINKLERS (TABLE 1017.2)  
PROJECT COMPLIES

**EGRESS COMPONENTS WITHIN THE WORK AREA (TABLE 1005.3)**  
OCCUPANCY 80 STAIRWAYS 0.3' OTHER COMPONENTS 0.2'  
AREA OF RENOVATION: 80 PEOPLE x 0.27'PERSON = 16 INCHES  
PROVIDED: 2 DOORS @ 33 INCHES CLEAR = 66 INCHES  
THIRD FLOOR: 272 PEOPLE x 0.27'PERSON = 54.4 INCHES  
PROVIDED: 10 DOORS @ 33 INCHES CLEAR = 330 INCHES  
FIRST THRU THIRD FLOOR: 690 PEOPLE x 0.37'PERSON = 207 INCHES (44 MIN.)  
PROVIDED: 2 STAIR @ 82 INCHES CLEAR = 164 INCHES  
1 STAIR @ 44 INCHES CLEAR = 44 INCHES  
TOTAL: 208 INCHES - PROJECT COMPLIES

- LIFE SAFETY KEY**
- 1-HOUR WALL
  - 2-HOUR WALL
  - OCCUPANT COUNT
  - TRAVEL DISTANCE



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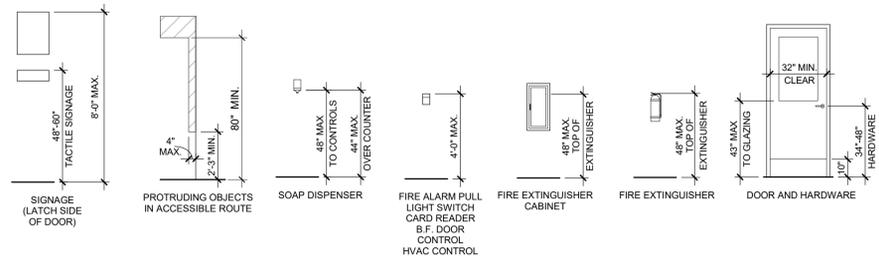
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PROJECT NO. 190812  
LIFE SAFETY PLANS

**LS101**  
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**BARRIER FREE DETAILS**



**RCP SYMBOL LEGEND**

	2x4 LIGHT FIXTURE
	2x2 LIGHT FIXTURE
	INDUSTRIAL OR STRIP LIGHT FIXTURE
	SURFACE OR RECESSED LIGHT FIXTURE
	CEILING MOUNTED EXIT SIGN
	CEILING MOUNTED SPEAKER
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	RETURN OR EXHAUST AIR GRILLE
	SUPPLY AIR DIFFUSER
	SLOT DIFFUSER
	ACCESS PANEL
	GYP. BOARD BULKHEAD, SOFFIT OR CEILING
	FIRE RATED GYP. BOARD BULKHEAD, SOFFIT OR CEILING
	CONTROL JOINT
	CEILING TILE AND GRID
	FIRE RATED CEILING TILE AND GRID
	CEILING HEIGHT ELEVATION

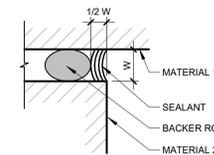
**ROOF PLAN SYMBOL LEGEND**

	INDICATES SLOPE OF STRUCTURAL STEEL (TYP.); SEE STRUCTURAL
	INDICATES HEIGHT OF TAPERED INSULATION ABOVE RIGID INSULATION
	TAPERED INSULATION
	ROOF DRAIN
	OVERFLOW ROOF DRAIN
	VENT THRU ROOF
	EXHAUST FAN
	ROOF TOP HVAC UNIT
	ROOF HATCH
	SKYLIGHT
	ROOF LADDER
	ROOF SCUPPER
	CONCRETE PAVER
	TRAFFIC PAD
	CONCRETE SPLASH BLOCK

**FLOOR PLAN SYMBOL LEGEND**

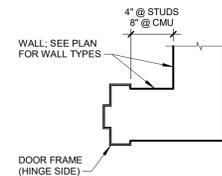
	INTERIOR WALL TYPE; SEE SHEET A201
	EXTERIOR WALL TYPE
	DOOR NUMBER
	BARRIER FREE/ADA ACCESSIBLE
	1 HOUR FIRE RATING
	2 HOUR FIRE RATING
	METAL STUD WALL
	CMU WALL
	FACE BRICK
	CAST IN PLACE OR PRECAST CONCRETE
	EXISTING WALL
	EXISTING DOOR
	FLOOR DRAIN; SEE MECHANICAL
	STEEL LADDER, WALL MOUNTED
	ROOF HATCH ABOVE
	CONCRETE WALK; SEE CIVIL
	LOUVER; SEE MECHANICAL

**STANDARD DETAILS**



NOTE: CLEAN AND PREPARE SURFACE TO RECEIVE SEALANT. TEST JOINT TO ENSURE PROPER BONDING.

**TYPICAL SEALANT JOINT BETWEEN DISSIMILAR MATERIALS**  
 NOT TO SCALE



**TYPICAL DOOR LOCATION**  
 NOT TO SCALE

**GENERAL NOTES**

- COORDINATE ALL WORK INDICATED PER THE PROJECT MANUAL AND DRAWINGS - NOTE: THE MOST STRINGENT REQUIREMENT OR MORE COSTLY WORK SHALL GOVERN WHERE CONFLICTS OCCUR.
- CONTRACTOR SHALL COORDINATE PHASING AND SEQUENCING OF THE WORK TO MAINTAIN BUILDING SECURITY AND WEATHER TIGHTNESS.
- COORDINATE ALL CUT, PATCH, AND REPAIR WORK WITH ALL OTHER TRADES, INCLUDING MECHANICAL AND ELECTRICAL DRAWINGS. PATCHING OF FINISHES SHALL EXTEND TO NEAREST NATURAL BREAK OR SURFACE TERMINATION FOR A CLEAN, UNBLEMISHED APPEARANCE AT THE END OF CONSTRUCTION.
- PROVIDE INTERIOR AND/OR EXTERIOR SHORING, BRACING, OR SUPPORT AS REQUIRED TO PREVENT MOVEMENT, SETTLEMENT, DAMAGE, OR COLLAPSE OF THE STRUCTURE WHERE WORK OCCURS.
- ALL DIMENSIONS INDICATED ON DRAWINGS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION; COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.
- IF AREAS WITHIN THE BUILDING ARE TO REMAIN OCCUPIED, CONTRACTOR TO PROVIDE AND MAINTAIN CONSTRUCTION BARRIER BETWEEN CONSTRUCTION AND OCCUPIED AREA.
- SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS. ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR.
- ALL DIMENSIONS ON FLOOR PLANS ARE SHOWN TO FINISHED FACE OF WALL, UNLESS OTHERWISE NOTED. SEE ENLARGED FLOOR PLANS, SECTIONS, AND DETAILS FOR OTHER DIMENSIONS.
- SEE ROOM FINISH SCHEDULE, ELEVATIONS, AND FLOOR FINISH PLANS FOR FINISHES.
- EXTEND ALL WALLS TIGHT TO DECK ABOVE, UNLESS NOTED OTHERWISE. SLOPE FLOORS TO FLOOR DRAINS; SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- MECHANICAL AND ELECTRICAL FIXTURES ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR TYPES, LOCATIONS AND QUANTITIES REQUIRED.
- SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR COMPLETE LISTING OF ALL PENETRATIONS, ROOF PENETRATIONS, AND ROOF TOP EQUIPMENT.
- ALL BLOCKING / SHEATHING SHALL BE FIRE RETARDANT TREATED (FRT), EXCEPT NON-STRUCTURAL BLOCKING IN INTERIOR WALLS SUCH AS HANDRAILS, MILWORK, CABINETS, AND WINDOW AND DOOR FRAMES, OR AS OTHERWISE INDICATED.
- CONTINUE FIRE RATED PARTITIONS AT INTERSECTIONS WITH NON-RATED PARTITIONS. CONTINUE ACOUSTIC PARTITIONS AT INTERSECTIONS WITH NON-ACOUSTIC PARTITIONS. COORDINATE PARTITION FIRE RATING REQUIREMENTS AS INDICATED ON LIFE SAFETY PLAN AND REFLECTED CEILING PLAN.
- PROVIDE 16GA x 8"W SHEET MTL. WALL REINFORCING AS REQUIRED AT ALL WALL MOUNTED MONITORS, EQUIPMENT, OVERHEAD BINS, SHELVES, COAT HOOKS, DOOR WALL BUMPERS, DOOR MAG HOLD-OPENS, ETC.
- PATCH AND REPAIR WALLS, COLUMN ENCLOSURES AND FLOORS TO ENSURE FLUSH, EVEN, LEVEL SURFACE TO RECEIVE FINISH MATERIAL.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL COORDINATION AND SCOPE OF WORK.
- COORDINATE ALL DISRUPTIVE CONSTRUCTION CAUSING NOISE AND VIBRATION TO SURROUNDING OCCUPIED SPACES WITH PROJECT MANAGER.
- BUILDING AND ADJACENT SUITES ARE TO REMAIN OCCUPIED DURING CONSTRUCTION. PUBLIC CORRIDORS SHALL REMAIN CLEAR OF DEBRIS AND OBSTRUCTIONS. PROTECT AND ALLOW TO REMAIN FUNCTIONAL.
- REMOVE DEBRIS FROM BUILDING IN A MANNER THAT DOES NOT RESTRICT NORMAL BUILDING USE AND IN A LEGAL MANNER TO AUTHORIZED FACILITIES LICENSED TO RECEIVE CONSTRUCTION WASTE MATERIALS.
- PROMPTLY REMOVE DEMOLITION DUMPSTERS FROM SITE WHEN FULL.
- ALL CONSTRUCTION MATERIALS AND EQUIPMENT SHALL REMAIN WITHIN ENCLOSED ROOMS IN THE PROJECT AREA. DOORS TO CORRIDOR TO REMAIN CLOSED AT ALL TIMES TO SEPARATE CONSTRUCTION AREAS FROM OCCUPIED AREAS AND REQUIRED EGRESS.
- COMPLETE UTILITY SHUTDOWN WORK AND WORK WITHIN CORRIDOR DURING OFF HOURS. COORDINATE WITH OWNER'S REPRESENTATIVE.
- IF PROJECT REQUIRES HOT WORK, CONTRACTOR TO FOLLOW UNIVERSITY STANDARD FOR HOT WORK PERMIT. HOT WORK SHALL NOT OCCUR WHILE BUILDING IS OCCUPIED. COORDINATE HOT WORK WITH OWNER'S REPRESENTATIVE.
- AFTER WORK HAS BEEN COMPLETED, CONTACT FIRE SAFETY TO SCHEDULE FIRE ALARM / FIRE SUPPRESSION TESTING.
- CONSTRUCTION CONTRACTOR TO PROVIDE FIRE EXTINGUISHER WITHIN THE CONSTRUCTION SITE AT ALL TIMES DURING PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MODIFICATION/REPAIR/REPLACEMENT OF EXISTING CONSTRUCTION AND FINISHES THAT ARE REQUIRED TO BE REMOVED FOR COMPLETION OF NEW WORK, UNLESS OTHERWISE NOTED. PATCH EXISTING WALL, FLOOR, AND CEILING SURFACES FOR SEAMLESS APPEARANCE.
- NEW ROOMS INDICATED ON NEW WORK FLOOR PLAN REQUIRE A NEW ROOM NUMBER SIGN AT EACH ROOM ENTRANCE DOOR. ROOM SIGNS PROVIDED BY OWNER.
- FOR ALL NEW WALL TYPES INDICATED ON SHEET A201, PROVIDE WALL BACKING IN LOCATIONS WHERE WALL MOUNTED ITEMS (EX: CABINETS, SHELVES, SUPPORT BRACKETS, ETC) ARE INDICATED FOR INSTALLATION. CONTRACTOR TO COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS OF ALL ELEMENTS PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH ALL SUSPENDED EQUIPMENT AND RELATED ITEMS.
- ALL SECURITY EQUIPMENT AND NURSE CALL MATERIALS, CABLE, AND LABOR IS CONTRACTOR FURNISHED AND INSTALLED.
- COMMUNICATIONS MATERIALS, CABLE, AND LABOR IS VENDOR FURNISHED AND INSTALLED. THE CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL AND THRU WALL SLEEVES DURING INSTALLATION.



WAYNE STATE UNIVERSITY



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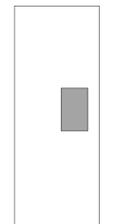
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GENERAL NOTES/BF DETAILS

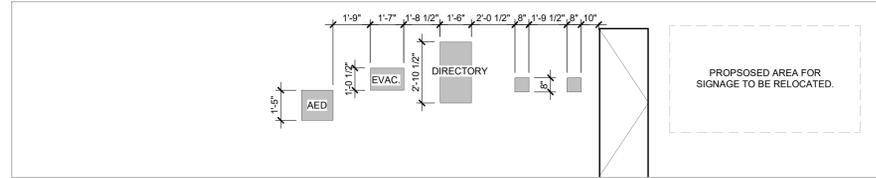
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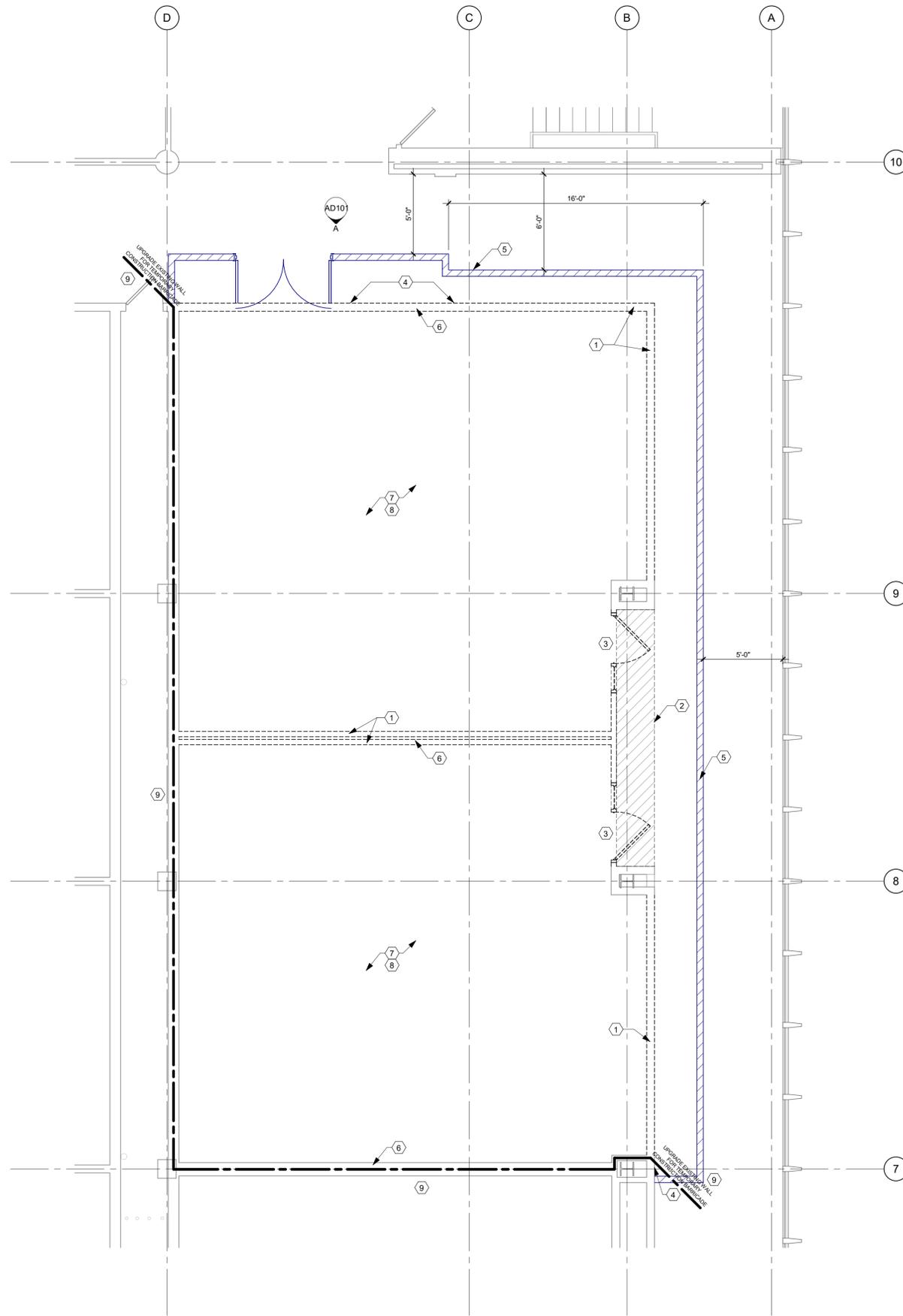


KEY PLAN  
 NORTH

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**A INTERIOR ELEVATION**  
SCALE: 1/4" = 1'-0"



**THIRD FLOOR DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

**GENERAL DEMOLITION NOTES**

- GENERAL DEMOLITION NOTES, KEYED DEMOLITION NOTES AND SPECIFICATIONS (SECTION II - DEMOLITION) APPLY TO ARCHITECTURAL DEMOLITION PLANS INCLUDED WITHIN THIS DOCUMENT SET.
- THESE DEMOLITION NOTES AND PLANS DO NOT FULLY REPRESENT ALL DEMOLITION WORK REQUIRED TO INSTALL NEW WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS, BUT ARE INTENDED TO SERVE AS GENERAL DEMOLITION GUIDELINES.
- COORDINATE AND PHASE DEMOLITION IN ACCORDANCE WITH PLANS AND SPECIFICATIONS IN ORDER TO MAINTAIN BUILDING SECURITY, WEATHER TIGHTNESS, AND CONTINUING OPERATIONS FOR OWNER.
- COORDINATE ALL DEMOLITION WORK WITH ALL OTHER CONSTRUCTION TRADES, INCLUDING STRUCTURAL, MECHANICAL, AND ELECTRICAL.
- ALL WORK INDICATED WITH SOLID LINES IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- WHERE ITEMS ARE REMOVED, SEE NEW WORK DOCUMENTS FOR PATCH AND REPAIR REQUIREMENTS.
- ALL ITEMS NOT PART OF THE SCOPE OF DEMOLITION ARE TO BE PRESERVED AND PROTECTED THROUGHOUT THE DURATION OF DEMOLITION AND CONSTRUCTION.
- ALL TEMPORARY BARRICADE WALLS ARE TO BE INSTALLED TIGHT TO THE DECK. ALL PENETRATION THRU WALL ARE TO BE PROPERLY FIRE SEALED FOR THE DURATION OF CONSTRUCTION.

**DEMOLITION SYMBOL LEGEND**

- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE REMOVED
- F.R. TEMPORARY CONSTRUCTION PARTITION
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED

**DEMOLITION NOTES**

- REMOVE WALL.
- SELECTIVELY DEMOLISH FLOORING.
- REMOVE DOOR, FRAME, AND SIDELIGHT.
- OWNER'S SIGNAGE TO BE RELOCATED BY WSU. REFER TO ELEVATIONS ON THIS SHEET TO DOCUMENT EXISTING CONDITION.
- PROVIDE 1-HOUR TEMPORARY CONSTRUCTION PARTITION, DOOR, AND FRAME FOR CONTRACTOR ACCESS.
- REMOVE ALL MOUNTED ACCESSORIES, EQUIPMENT, CASEWORK, FURNITURE AND ASSOCIATED BLOCKING/BACKING UNLESS OTHERWISE NOTED TO REMAIN OR BE REINSTALLED.
- REMOVE FLOORING, RESILIENT BASE, FLOOR ADHESIVE, AND ANY EXISTING COVERBOARD OR PLYWOOD. REMOVE ALL DOWN TO EXISTING CONCRETE SLAB. SCARIFY FLOOR AS REQUIRED FOR NEW FLOOR FINISH.
- REMOVE ANY WALL MOUNTED FASTENERS IN ANY EXISTING TO REMAIN WALL. PATCH AND REPAIR AS COORDINATED BY NEW WORK.
- PROVIDE RATINGS ON ALL EXISTING WALLS THAT WILL BECOME PART OF THE TEMPORARY BARRICADE WALL. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING EXISTING WALLS AND PENETRATIONS IN ORDER TO ACHIEVE A 1-HOUR RATING. REFER TO FIRE STOPPING SCOPE ON THIS SHEET.

**FIREPROOFING SCOPE OF WORK**

THIS NARRATIVE DESCRIBES THE ASSUMPTIONS FOR FIRESTOPPING RELATED TO THE RATING OF ROOM WALLS TO FIRE SEPARATE THIS ROOM DURING CONSTRUCTION.

- THE CONTRACTOR SHALL VERIFY ALL EXISTING FIRESTOPPED PENETRATIONS COMPLY WITH AN APPROVED UL ASSEMBLY.
  - THE CONTRACTOR SHALL CORRECT ANY DEFICIENT PENETRATIONS WITH AN APPROVED UL ASSEMBLY.
  - THE CONTRACTOR SHALL FIRESTOP ALL NEW PENETRATIONS WITH AN APPROVED UL ASSEMBLY.
  - THE CONTRACTOR SHALL TAG NEW AND EXISTING PENETRATIONS WITH AN APPROVED UL ASSEMBLY U456-PSV-1067 OR HW-D-0755.
  - THE CONTRACTOR SHALL ASSUME THAT 60 EXISTING PENETRATIONS NEED TO BE VERIFIED, UPGRADED, AND/OR TAGGED.
- APPROXIMATE 15 PENETRATIONS ARE RELATED TO MECHANICAL/PLUMBING/FIRE PROTECTION.
  - APPROXIMATELY 45 OF THESE PENETRATIONS ARE RELATED TO ELECTRICAL.



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Designer YF/CT  
Reviewer WTB  
Manager VJM

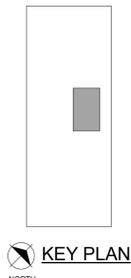
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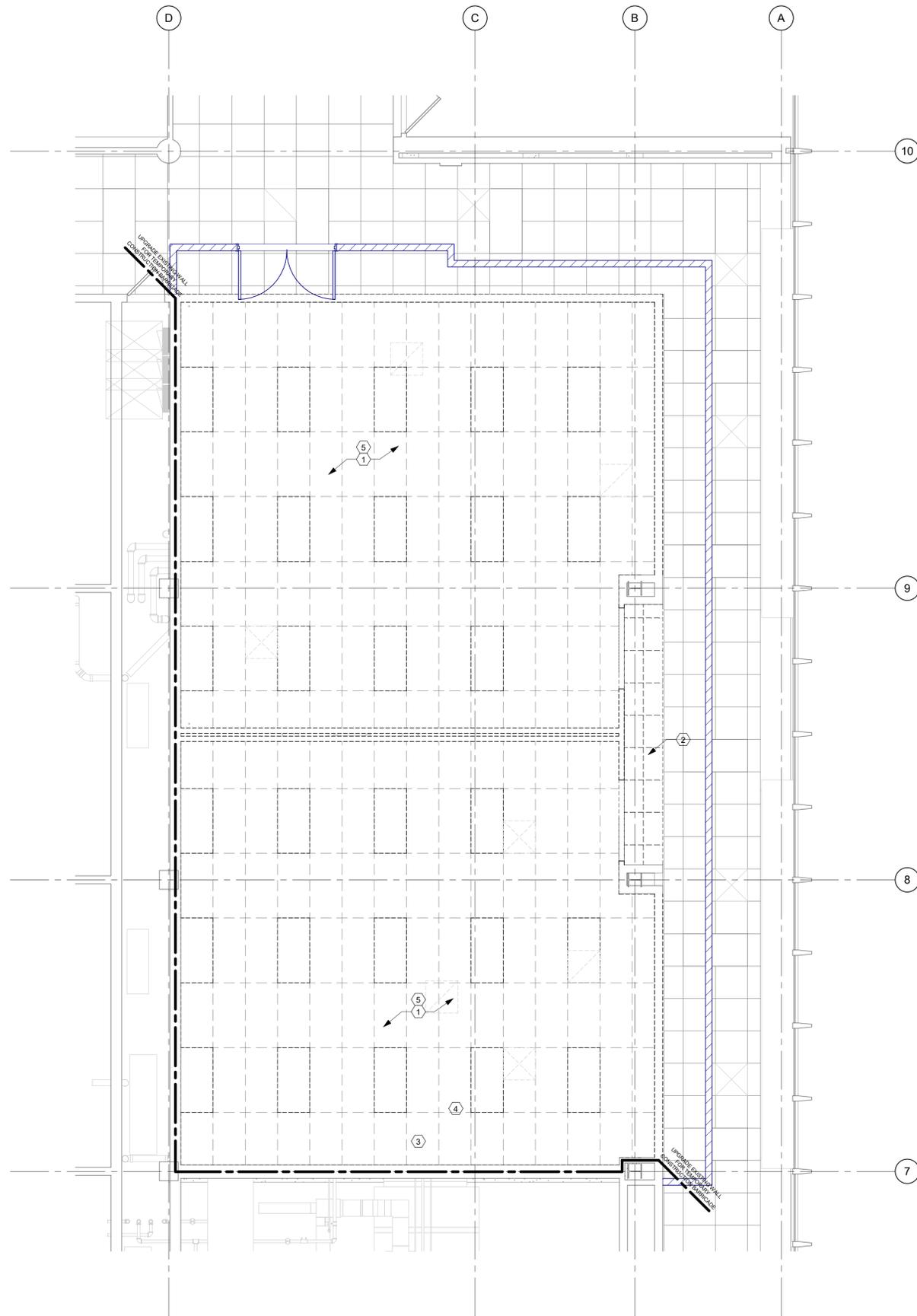
THIRD FLOOR DEMOLITION PLAN

**AD101**

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**REFLECTED CEILING PLAN**

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

**GENERAL CEILING PLAN DEMOLITION NOTES**

1. DASHED LINES INDICATE DEMOLITION ITEMS. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
2. AT EXISTING PARTITIONS AS NOTED AS FIRE-RATED OR SMOKE BARRIERS, PATCH AND REPAIR ALL PENETRATIONS TO MAINTAIN THE INTEGRITY OF REQUIRED FIRE RATINGS.
3. REFER TO MECHANICAL, ELECTRICAL, STRUCTURAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
4. REFER TO NEW WORK REFLECTED CEILING PLAN FOR ADDITIONAL NOTES AND CEILING LEGEND.

**1 DEMOLITION NOTES**

- 1 REMOVE CEILING SYSTEM AND CEILING MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO LIGHTING, DEVICES, DIFFUSERS, GRILLES, UNISTRUT, STRUCTURE, ETC. COORDINATE COMPLETE SCOPE FOR WORK WITH MECHANICAL, PLUMBING AND ELECTRICAL.
- 2 SELECTIVELY REMOVE CEILING COORDINATE WITH NEW WORK. ANY CEILING OUTSIDE OF SCOPE OF WORK CONTRACTOR TO STORE AND REINSTALL CEILING TILE AND GRID SYSTEM WHERE OVERHEAD STRUCTURAL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL WORK OCCURED. PROVIDE NEW CEILING TILE AND GRID PIECES AS NECESSARY.
- 3 COORDINATE WITH ELECTRICAL DRAWING FOR RELOCATION OF CONDUIT.
- 4 RECONFIGURE UNISTRUT SUPPORTING HVAC DUCT/EQUIPMENT TO ACHIEVE DESIGNED CEILING HEIGHT, COORDINATE WITH NEW WORK.
- 5 PROVIDE AN ALLOWANCE FOR REPAIR OF ANY LEAKY ROOFING AND/OR LEAKY CONDENSATE PIPING.



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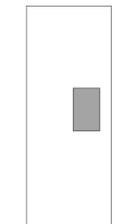
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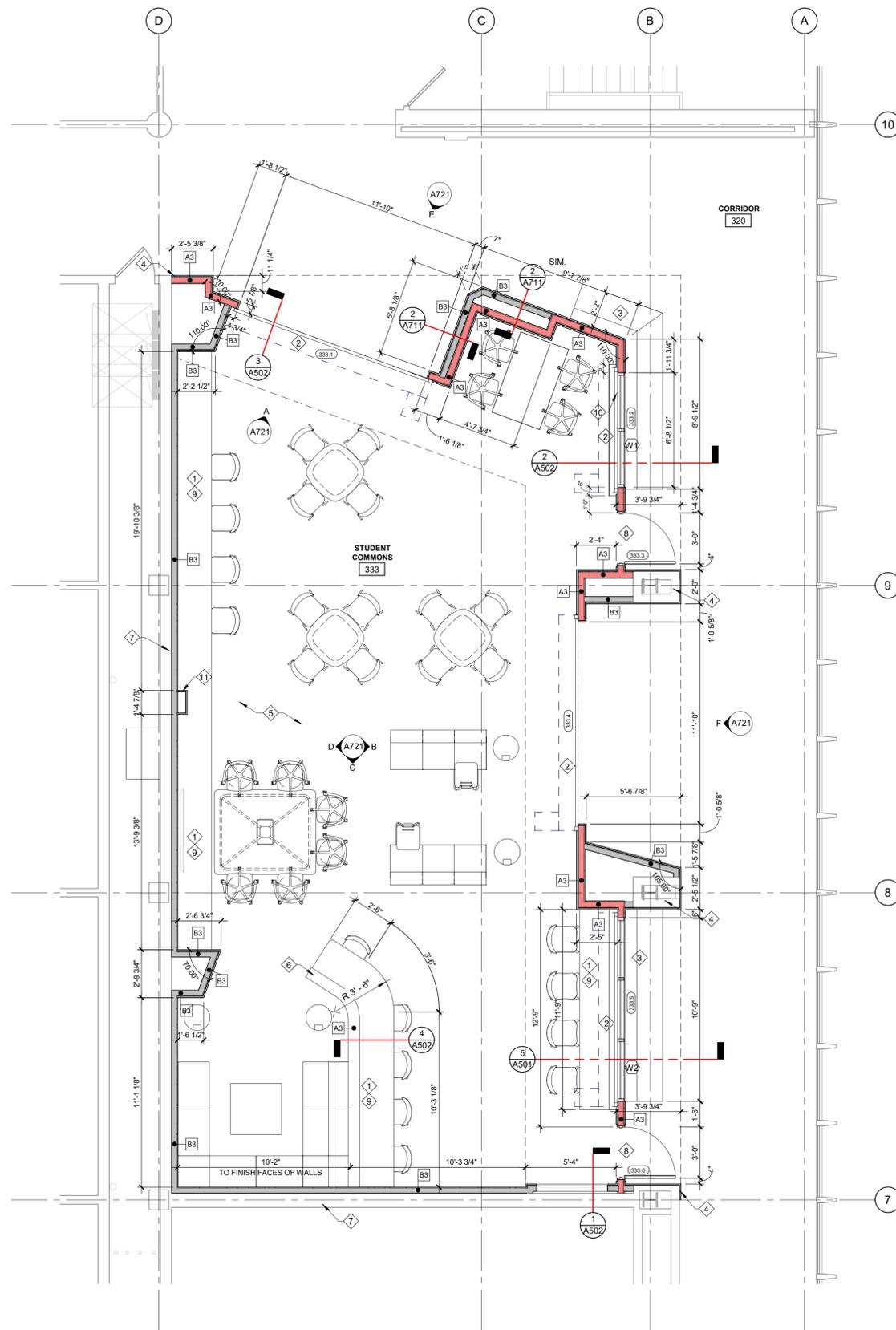
THIRD FLOOR REFLECTED  
CEILING DEMOLITION PLAN

**AD711**

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**KEY PLAN**



**THIRD FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

**GENERAL ARCHITECTURAL NOTES**

1. SEE REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
2. ALL DIMENSIONS INDICATED ON DRAWINGS SHALL BE VERIFIED BY GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.
3. ALL DIMENSIONS ON FLOOR PLANS ARE SHOWN TO FINISHED FACE OF WALL UNLESS OTHERWISE NOTED.
4. SEE ROOM FINISH SCHEDULE AND FLOOR FINISH PLAN FOR FINISHES.
5. EXTEND ALL WALLS TIGHT TO DECK ABOVE UNLESS NOTED OTHERWISE.
6. ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR.
7. MECHANICAL AND ELECTRICAL FIXTURES ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR TYPES, LOCATIONS AND QUANTITIES REQUIRED.
8. ALL BLOCKING/SHEATHING SHALL BE F.R.T.
9. PRIOR TO INSTALLING NEW FINISHES, PATCH AND REPAIR EXISTING SURFACES AS REQUIRED. PATCHING OF NEW OR EXISTING FINISHES SHALL EXTEND TO NEAREST NATURAL BREAK OR SURFACE TERMINATION FOR A CLEAN, UNBLEMISHED APPEARANCE AT THE END OF CONSTRUCTION.
10. RATED WALL DESIGNATIONS ONLY SHOW RATINGS OF WALLS ADJACENT TO OR IN CLOSE PROXIMITY TO THE AREAS OF CONSTRUCTION. FOR ALL EXISTING RATED WALL CONDITIONS REFER TO THE EXISTING BASE BUILDING DRAWINGS.
11. WHERE MECHANICAL AND ELECTRICAL SERVICES ARE INSTALLED OR REMOVED; REMOVE AND REINSTALL OR PATCH AND REPAIR TO MATCH CONSTRUCTION AND FINISH OR TO RECEIVE NEW FINISHES WHERE SCHEDULED. PATCHING OF NEW OR EXISTING FINISHES SHALL EXTEND TO NEAREST NATURAL BREAK OR SURFACE TERMINATION FOR A CLEAN, UNBLEMISHED APPEARANCE AT THE END OF CONSTRUCTION. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.

**KEY NOTES**

1. COUNTERTOP AND WALL BRACKET.
2. FIRE SHUTTER, REFER TO APPROVED MANUFACTURER'S SHOP DRAWINGS.
3. MILLWORK BENCH.
4. PATCH AND REPAIR CMU WALL AS REQUIRED TO INSTALL NEW WALL AND PANELS.
5. PATCH AND REPAIR FLOORING FOR NEW FLOOR FINISHES.
6. 48" TALL WALL WITH PLASTIC LAMINATE PANELS AND SOLID SURFACE CAP.
7. PATCH AND REPAIR ANY WALL AS AFFECTED BY THE SCOPE OF DEMOLITION OR NEW WORK TO A LIKE NEW CONDITION.
8. NEW DOOR, FRAME, AND HARDWARE - SEE DOOR SCHEDULE.
9. INSTALL IN-WALL F.R.T. BLOCKING OR METAL BACKING FOR INSTALLATION OF ALL WALL MOUNTED COUNTERTOP. REFER TO ELEVATIONS FOR MORE INFORMATION.
10. INSTALL B3 WALL AND PL1 PLASTIC LAMINATE PANEL UP TO SHELF ANGLE AT FIRE SHUTTER.
11. MILLWORK TOWER, SEE ELEVATIONS.

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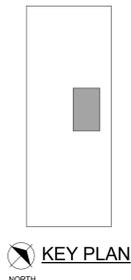
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THIRD FLOOR PLAN

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DOOR SCHEDULE & WALL TYPES

A201

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WALL TYPE NOTES

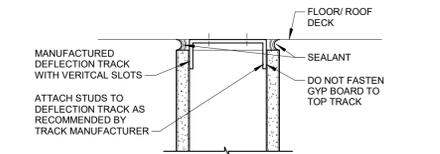
- STUD SIZE "S" LOCATION OF TAG INDICATES SIDE OF WALL W/ GYPSUM BOARD OR PARTITION "A" SIDE OF WALL WITH MULTIPLE LAYERS OF GYPSUM BOARD
- WALL TYPE LEGEND**
- WALL TAG WITH "A" SUFFIX INDICATES ACOUSTICAL WALL. SEE ACOUSTICAL WALL NOTES BELOW.
  - PROVIDE DEFLECTION TRACKS OR CLIPS FOR ALL PARTITIONS ABUTTING STRUCTURE ABOVE.
  - EXTEND RATED PARTITIONS THROUGH THE INTERIOR FACE OF EXTERIOR WALL GYPSUM BOARD AND SEAL TO THE INSIDE FACE OF THE EXTERIOR BUILDING WALL SHEATHING.
  - INTERIOR METAL STUD PARTITIONS ARE DIMENSIONED FROM FACE OF GYPSUM BOARD OR TILE BACKER BOARD.
  - MAINTAIN THE FIRE-PROTECTION RATINGS FOR ALL OPENINGS IN RATED PARTITIONS.
  - WHERE THICKNESS VARIES BETWEEN TWO PARTITIONS IN AN UNINTERRUPTED CONTINUOUS WALL PLANE - OFFSET STUDS AND ALIGN FACE OF PARTITIONS.
  - METAL STUD FRAMING: MIN. 20 GAGE @ 16" O.C. U.N.O.
  - UL DESIGN NUMBERS REFER TO THE UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY - LATEST EDITION.
  - FIRE RATED PARTITIONS SHALL HAVE FIRESTOP SEALANT AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTURES WITH DISSIMILAR MATERIALS.
  - BEHIND WALL TILE PROVIDE 5/8" CEMENT BOARD IN LIEU OF GYP. BOARD. HOLD TOP OF CEMENT BOARD 1/2" BELOW TOP OF TILE.
  - PROVIDE BULLNOSE CML AT ALL EXPOSED OUTSIDE CORNERS.
  - EXTEND ALL WALLS TIGHT TO DECK ABOVE UNLESS NOTED OR DETAILED OTHERWISE.
  - ALL RECESSED DEVICES SHALL BE OFF-SET BY MINIMUM OF ONE STUD CAVITY. DO NOT INSTALL BACK TO BACK OR WITHIN SAME STUD CAVITY.
  - PROVIDE BLOCKING IN WALL REQ'D TO SUPPORT BUILT-IN ITEMS, FIXTURES, MILLWORK, AND OTHER WALL SUPPORTED ITEMS.
  - SEE LIFE SAFETY PLANS FOR LOCATION AND DURATION OF RATED ASSEMBLIES.
  - PROVIDE ABUSE RESISTANT GYP. BOARD FROM FLOOR TO 8'-0" AFF IN LIEU OF TYPICAL GYP. BOARD ON WALLS WITHIN CORRIDORS AND STUDENT COMMONS.
  - CONSTRUCT ALL CORRIDOR WALLS TO RESIST THE PASSAGE OF SMOKE. I.E., TO BE SMOKE TIGHT.

FIRE AND SMOKE RATED WALL IDENTIFICATION

- ALL RATED FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL HAVE RED PAINTED STENCIL LETTERS (3" TALL MIN. WITH 3/8" WIDE STROKE) READING SPECIFIC RATINGS (I.E. 1-HOUR FIRE BARRIER) APPLIED TO WALL AROUND INTERIOR PERIMETER OF THE ROOM. EACH SIDE OF WALL, AND LOCATED ABOVE ACCESSIBLE CEILINGS. STENCIL TO BE SPACED A MAX. OF 12'-0" APART, BUT NO LESS THAN TWICE PER WALL FOR WALLS LONGER THAN 8'-0" IN LENGTH, AT LEAST ONCE FOR WALLS LESS THAN 8'-0" LONG, AND NO MORE THAN 8'-0" FROM WALL BEGINNING AND END, EXCEPT WHERE TOP OF WALL EXPOSED TO VIEW.

ACOUSTICAL WALL NOTES (WALLS INDICATED WITH "A" SUFFIX)

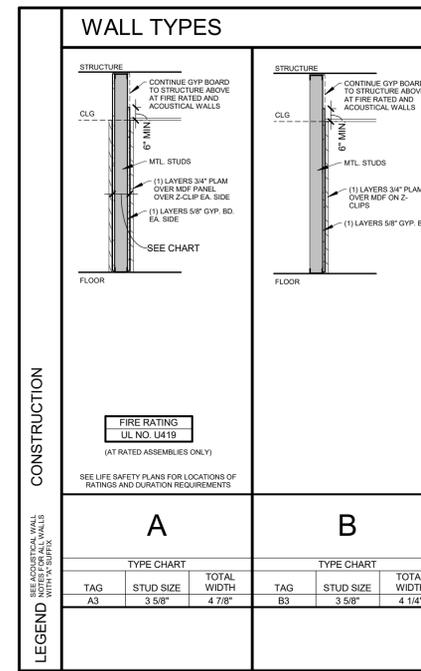
- INSULATION IN STUD CAVITY SHALL COMPLETELY FILL THE CAVITY WITHOUT OVER COMPRESSION.
- CUT THE GYPSUM BOARD WALL HEAD TO MATCH THE METAL DECK PROFILE AND FILL THE VOIDS WITH BATT INSULATION.
- NON-RATED PARTITIONS SHALL HAVE ACOUSTICAL SEALANT AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTURES WITH DISSIMILAR MATERIALS.



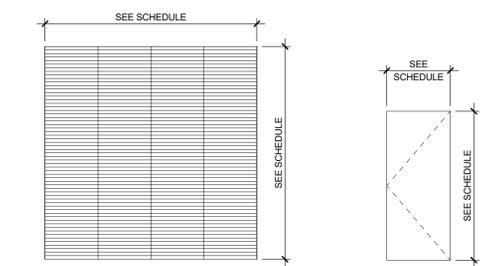
- MULTIPLE LAYERED GYP. BOARD PARTITIONS ARE DETAILED SIMILAR
- PROVIDE UL LISTED HEAD OF WALL ASSEMBLY AT FIRE RATED WALLS.

DEFLECTION TRACK

SCALE: 3" = 1'-0"



NO.	LOCATION	DOOR PANEL			DOOR										FRAME		LABEL	HDW	NOTES		
		QTY	W	H	T	TYPE	MATERIAL	EXT FINISH	INT FINISH	GLASS	TYPE	MATERIAL	EXT FINISH	INT FINISH	HEAD	JAMB					
333.1	STUDENT COMMONS	1	12'-0"	7'-9"	REF. MGF.	OHCD	ST	GALVANIZED TAN	GALVANIZED TAN	--	--	ST				3/A502	J-2	90 MIN			
333.2	STUDENT COMMONS	1	6'-8 1/2"	3'-6"	REF. MGF.	OHCD	ST	GALVANIZED TAN	GALVANIZED TAN	--	--	ST				2/A502	J-3	90 MIN			
333.3	STUDENT COMMONS	1	3'-0"	7'-0"	0'-1 3/4"	F	HM	P3	P3	--	--	S1	HM			H-1	J-1	45 MIN		1	
333.4	STUDENT COMMONS	1	12'-0"	7'-9"	REF. MGF.	OHCD	ST	GALVANIZED TAN	GALVANIZED TAN	--	--	ST				3/A502	J-2	90 MIN			
333.5	STUDENT COMMONS	1	10'-9"	3'-6"	REF. MGF.	OHCD	ST	GALVANIZED TAN	GALVANIZED TAN	--	--	ST				5/A501	J-3	90 MIN			
333.6	STUDENT COMMONS	1	3'-0"	7'-0"	0'-1 3/4"	F	HM	P3	P3	--	--	S1	HM			P3	P3	H-1	J-1	45 MIN	1



DOOR TYPES

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

DESIGNATION DESCRIPTIONS

F OHCD FLUSH OVERHEAD COILING DOOR

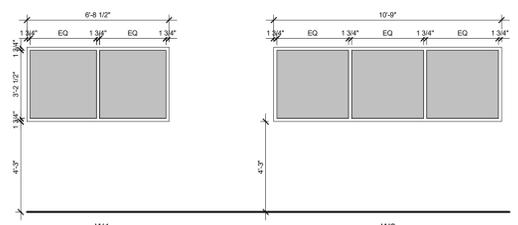
DESIGNATION DESCRIPTIONS

S SINGLE

FRAME TYPES

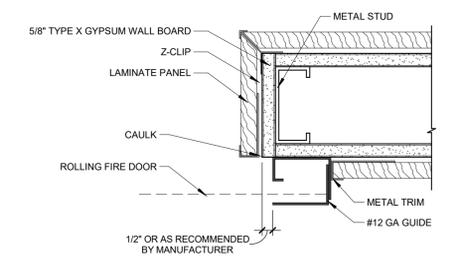
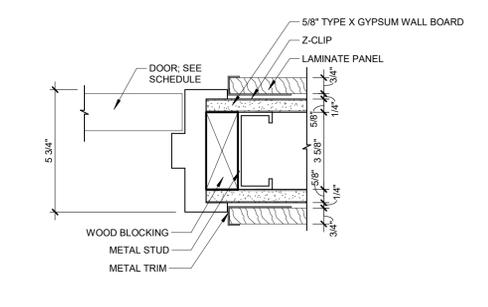
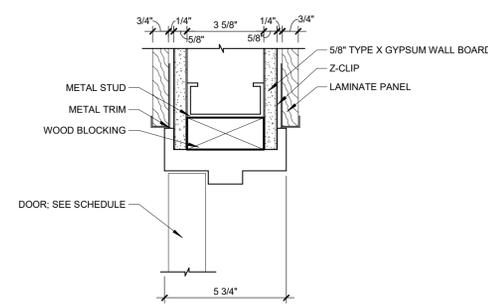
SCALE: 1/4" = 1'-0"

WINDOW	LOCATION	QTY	TYPE	HEAD HEIGHT	W	H	GLASS TYPE
W1	STUDENT COMMONS	1	W1	7'-9"	6'-8 1/2"	3'-6"	TEMP
W2	STUDENT COMMONS	1	W2	7'-9"	10'-9"	3'-6"	TEMP

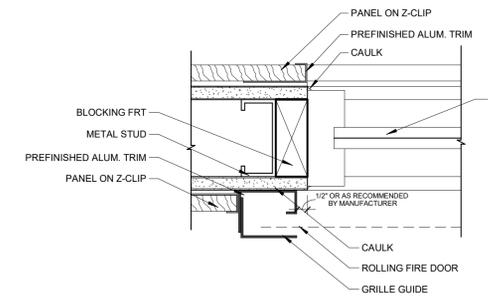


WINDOW TYPES

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



NOTE: CALK COLOR TO MATCH ALUM. TRIM COLOR. SUBMIT SAMPLE FOR ARCHITECT APPROVAL.



NOTE: CALK COLOR TO MATCH ALUM. TRIM COLOR. SUBMIT SAMPLE FOR ARCHITECT APPROVAL.

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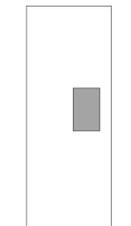
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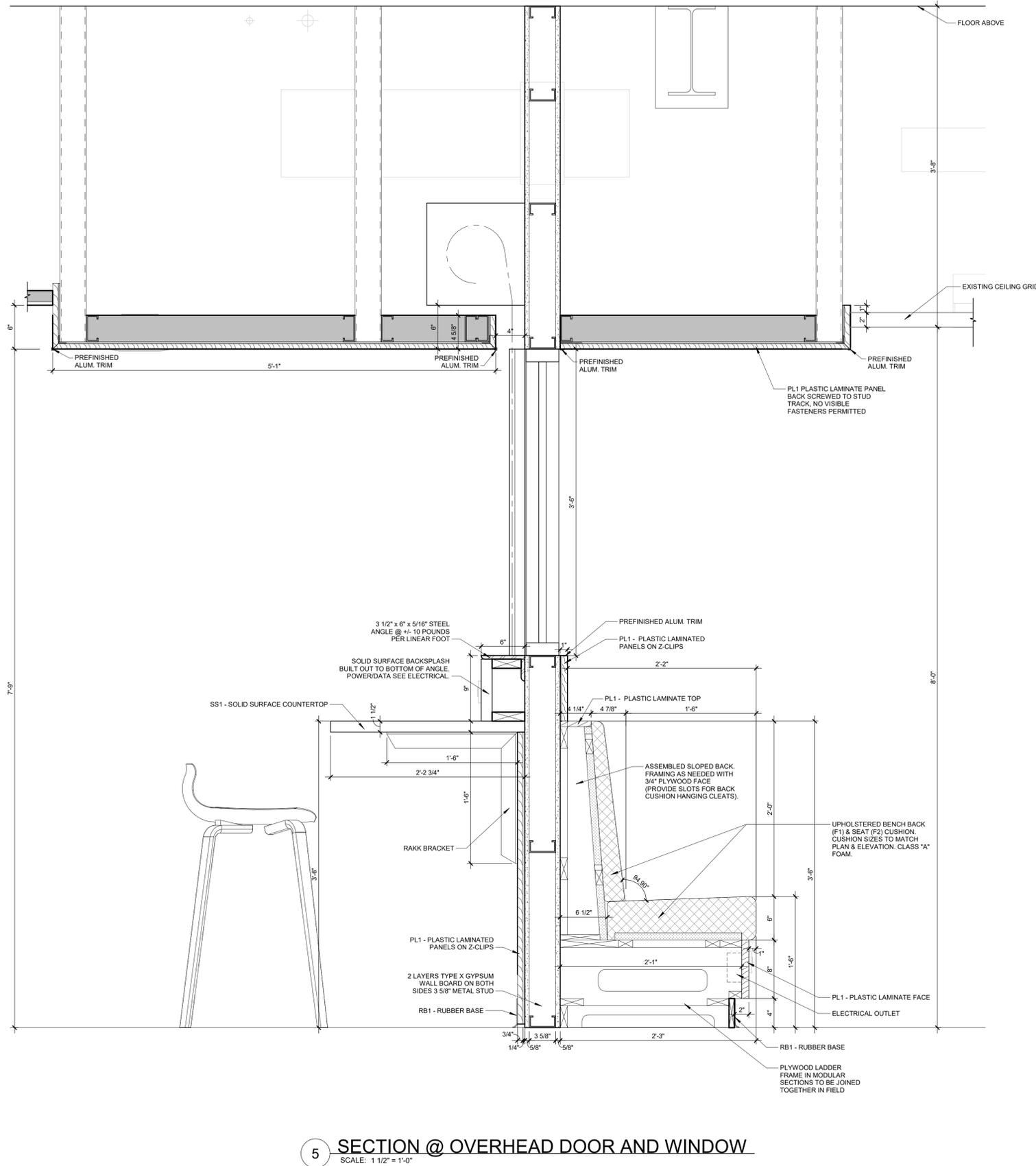
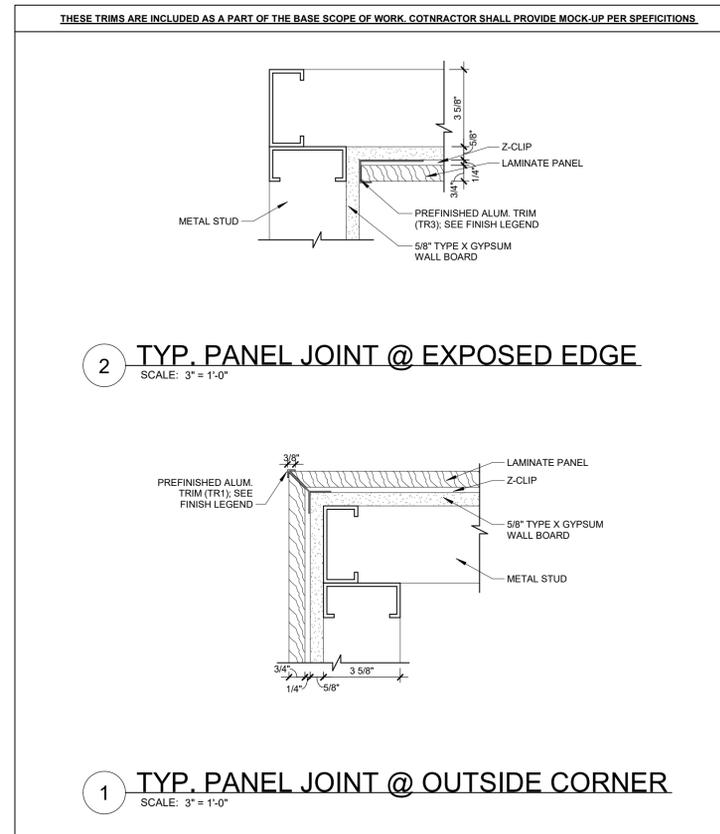
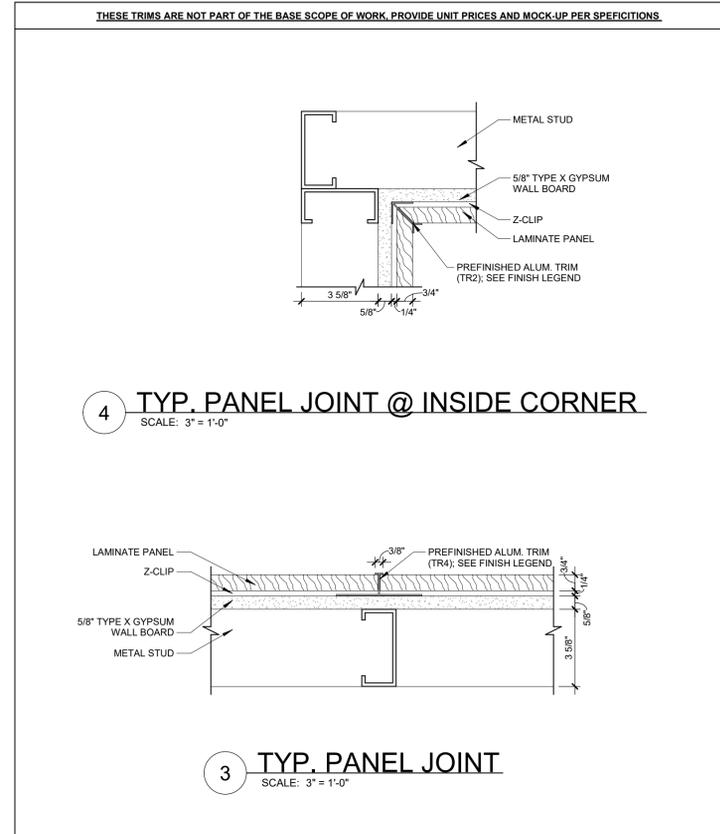
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KEY PLAN  
NORTH





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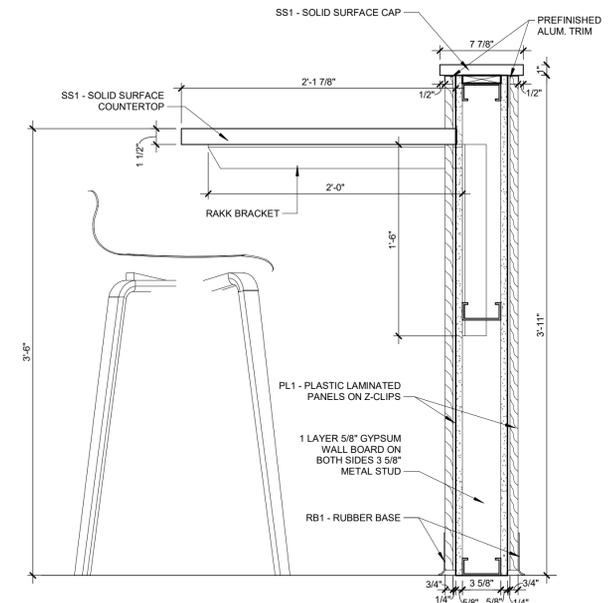
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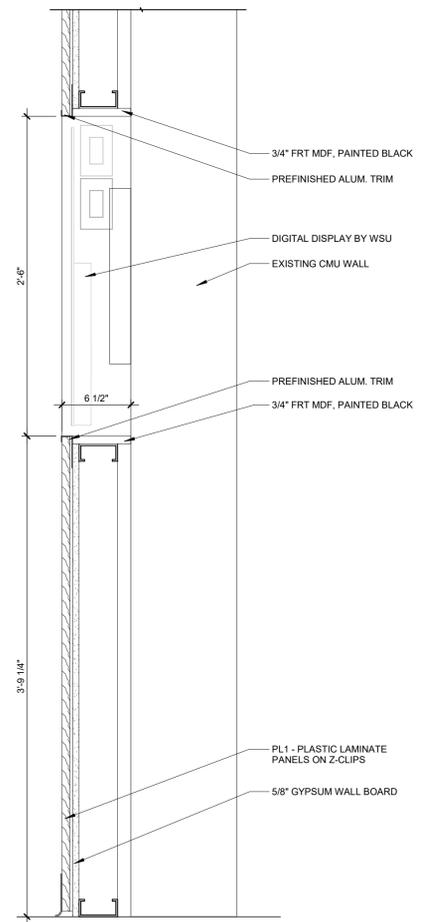
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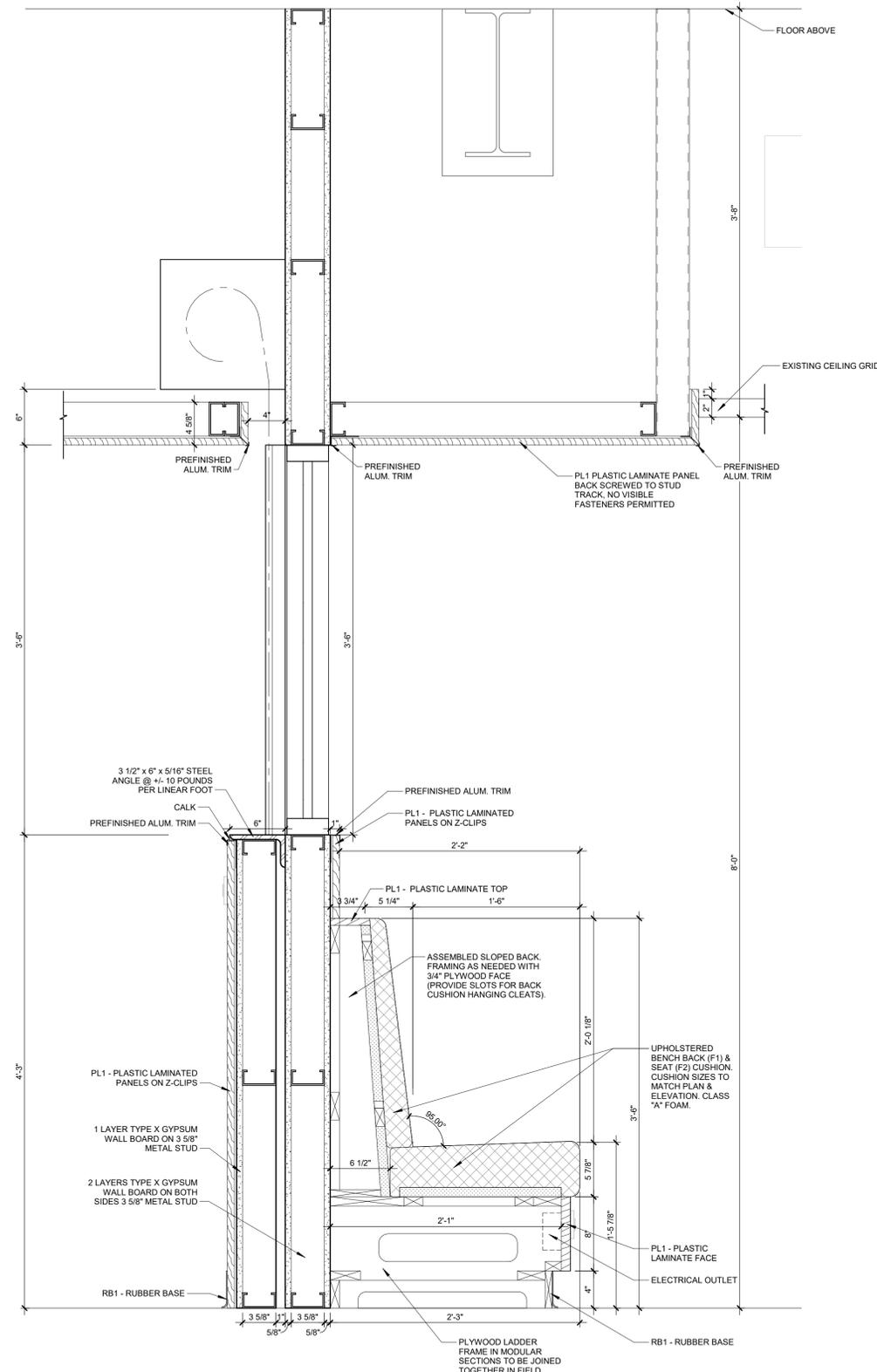
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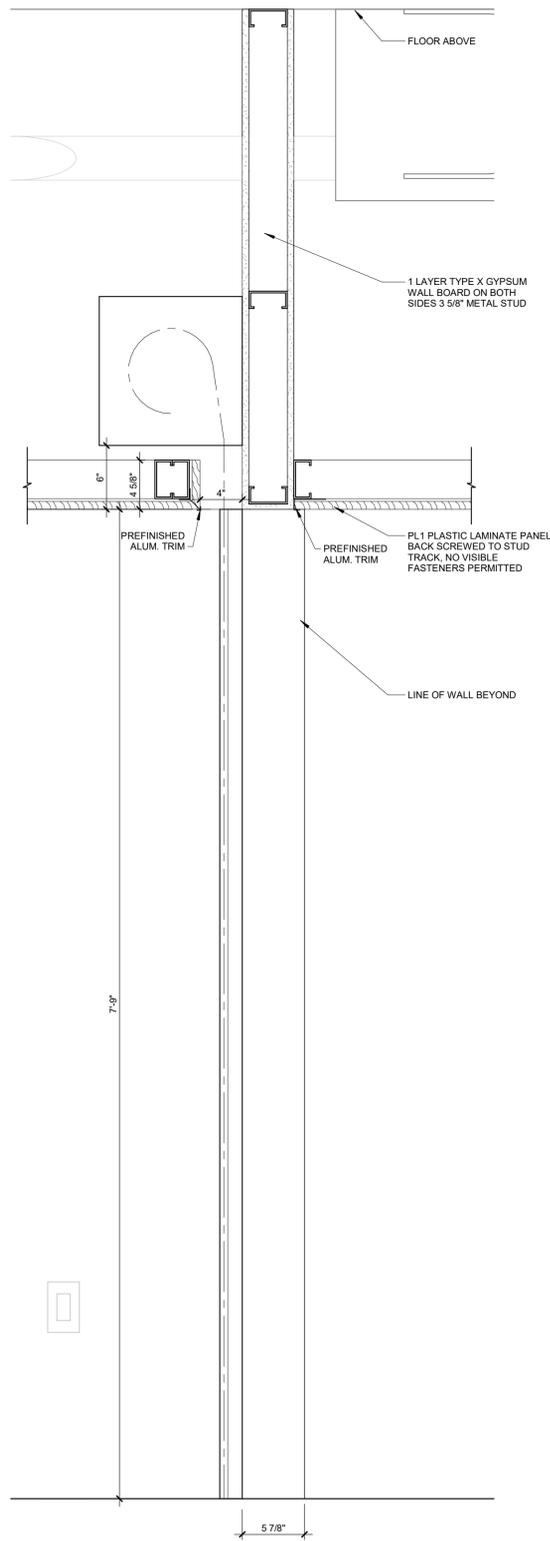
4 SECTION @ HALF WALL  
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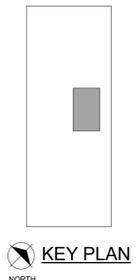
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SCALE: 1 1/2" = 1'-0"



2 SECTION @ OVERHEAD DOOR AND WINDOW  
SCALE: 1 1/2" = 1'-0"



3 SECTION @ OVERHEAD DOOR  
SCALE: 1 1/2" = 1'-0"



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NOTES  
ALL WALLS TO BE FACED WITH PLASTIC LAMINATE (PL1) UNLESS NOTED OTHERWISE.



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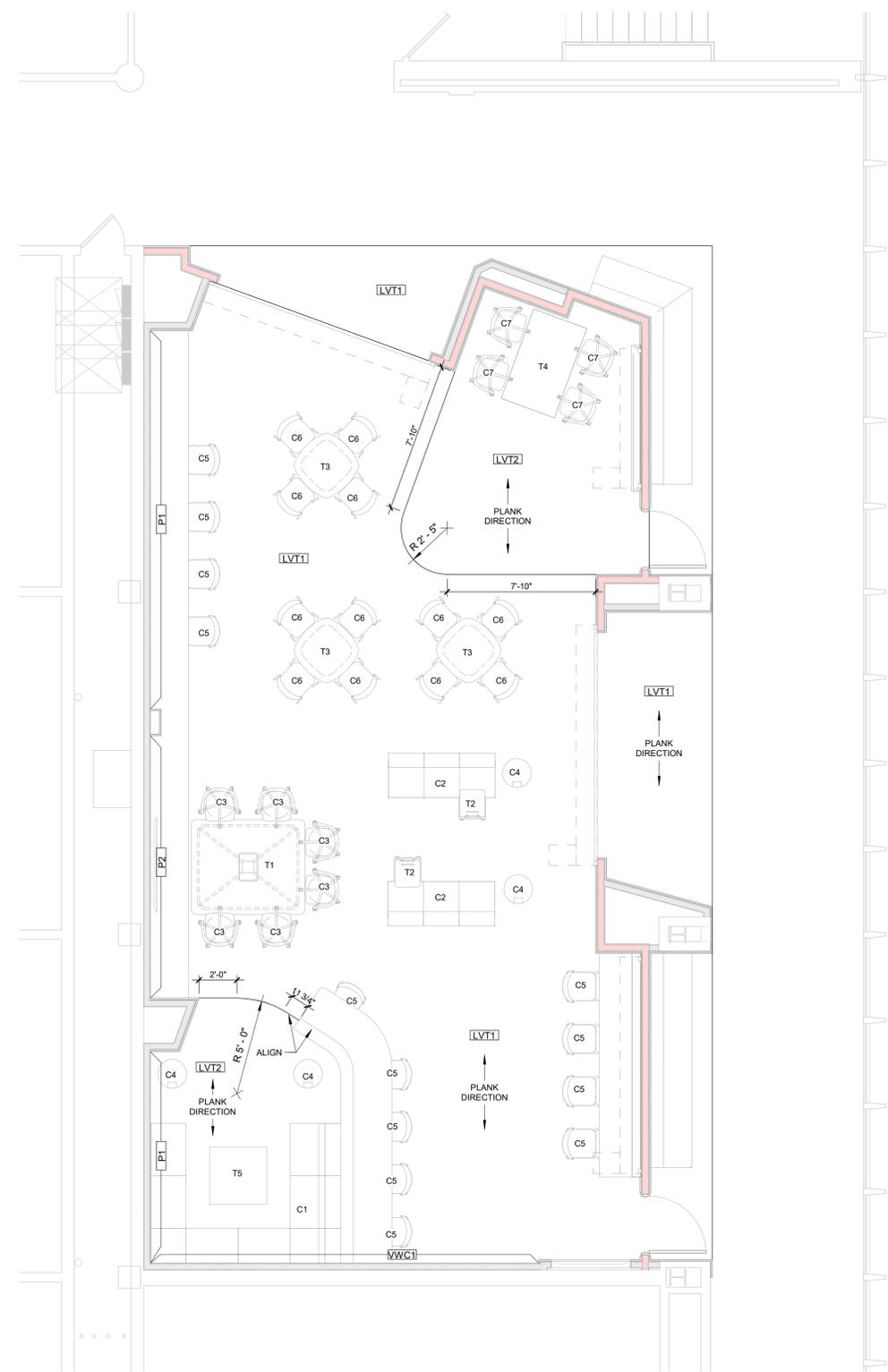
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FLOOR FINISH PLANS

A701

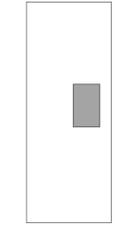
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NORTH

THIRD FLOOR FINISH PLAN

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



KEY PLAN  
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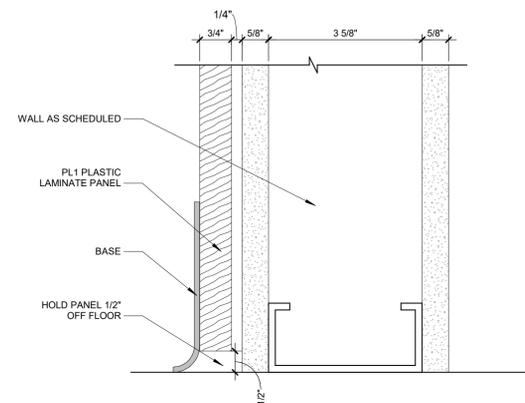
PROJECT NO.  
190812

FINISH LEGEND AND ROOM  
FINISH SCHEDULE

A702

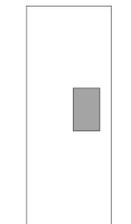
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FINISH LEGEND								
MATERIAL	TAG	MANUFACTURER	STYLE	COLOR	SIZE	FINISH	INSTALLATION	NOTES
<b>PAINT</b>								
	P1	SHERWIN WILLIAMS		SW 7036 ORICAMI WHITE		EGGSHELL		
	P2	SHERWIN WILLIAMS		SW 6186 DRIED THYME		EGGSHELL		
DOORS & DOOR FRAMES	P3	SHERWIN WILLIAMS		SW 7504 KEYSTONE GRAY		SATIN		
<b>WALL COVERING</b>								
VINYL WALL COVERING	VWC1	LEVEL DIGITAL WALLCOVERINGS	L71102 WAVELENGTH	CUSTOM COLOR	CUSTOM SIZE - WALLCOVERING IS FULL HEIGHT & WIDTH OF WALL	TYPE II VINYL STIPPLE	ALLOW WEEKS FOR ORDERING	1
<b>LUXURY VINYL TILE</b>								
PANEL	LVT1	J-J FLOORING GROUP	CLASSICS V5000	1008 PARADIGM	9" x 48" x 3MM		1/3 DROP	2
	LVT2	ARMSTRONG FLOORING	NATURAL CREATIONS MYSTIX-NEVA	NA920 LULLABY	6" x 36" x .125" (3.2MM)		ASHLAR	3
<b>BASE</b>								
RUBBER BASE	RB1	TARKETT (JOHNSONITE)	DURACOVE RUBBER WALL BASE	283 TOAST	4" H ROLLED GOODS			
<b>ACOUSTICAL CEILING PANEL</b>								
PANEL	ACP1	ARMSTRONG	ULTIMA SQUARE LAY-IN 1910	WHITE	24" x 24" x 3/4"			
GRID	ACP1	ARMSTRONG	PRELUDE XL	WHITE	15/16"			
<b>COUNTERTOPS</b>								
SOLID SURFACE	SS1	FORMICA		782 LUNA WEATHER	1/2" THICKNESS			4
<b>LAMINATE</b>								
	PL1	WILSONART		8209K-28 VERANDA TEAK	4' x 8' SHEET	GLOSS LINE FINISH, AEON SCRATCH RESISTANCE		5
<b>MISCELLANEOUS</b>								
METAL OUTSIDE CORNER TRIM AT LAMINATED SOFFITS/WALLS	TR1	FLANNERY, INC.	WOOD PANEL OUTSIDE CORNER	CHAMPAGNE	PROVIDE SIZE TO FIT			6
METAL J-MOLD TRIM AT LAMINATED SOFFITS/WALLS	TR3	FLANNERY, INC.	WOOD PANEL J-MOLD	CHAMPAGNE	PROVIDE SIZE TO FIT			6
<b>BENCH MILLWORK</b>								
FABRIC (BACK)	F1	MOMENTUM TEXTILES	FOLD	TUNDRA	54" WIDTH			
FABRIC (SEAT)	F2	MOMENTUM TEXTILES	SILICA ETCH	SLATE	54" WIDTH			
PLASTIC LAMINATE	PL1	WILSONART		8209K-28 VERANDA TEAK		GLOSS LINE FINISH, AEON SCRATCH RESISTANCE		
METAL OUTSIDE CORNER TRIM AT LAMINATE	TR1	FLANNERY, INC.	WOOD PANEL OUTSIDE CORNER	CHAMPAGNE	PROVIDE SIZE TO FIT			6
METAL J-MOLD TRIM AT LAMINATE	TR3	FLANNERY, INC.	WOOD PANEL J-MOLD	CHAMPAGNE	PROVIDE SIZE TO FIT			6
<b>NOTES:</b>								
1. REFER TO SHEET A701 FOR EXTENT OF VWC1. REP. CONTACT: RYAN SCOTT PH. 248.910.5518 OR EMAIL RYANS@SURFACEMATERIALS.COM. FINISH WALLS TO A LEVEL 5 FINISH.								
2. REP. CONTACT: NICHOLE LEE PH. 616.295.4132 OR EMAIL NICHOLE.LEE@JFLOORING.COM.								
3. REP. CONTACT: SHERI DATEMA PH. 616.204.5540 OR EMAIL SHERI.DATEMA@FLORSTAR.COM.								
4. ORIENT GRAIN VERTICALLY AT ALL WALLS.								
5. REFER TO REFLECTED CEILING PLAN FOR LAMINATE SHEET LAYOUT AT CEILING. WRAP LAMINATE IN SAME DIRECTION TO VERTICAL FACE OF SOFFIT.								
6. REFER TO DETAIL DRAWINGS FOR MORE INFORMATION RELATED TO METAL TRIMS AT LAMINATED CORNERS AND ENDS.								
<b>GENERAL NOTES:</b>								
• REFER TO FINISH PLANS, REFLECTED CEILING PLANS AND ELEVATIONS FOR FINISH LOCATIONS.								
• ALL NEW HOLLOW METAL DOORS TO BE LAMINATED TO MATCH ADJACENT WALL LAMINATE FINISH.								
• DOORS TO BE SAME FINISH ON BOTH SIDES U.N.O.								
• INSTALL FINISHES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.								



1 TYP. BASE SECTION  
SCALE: 6" = 1'-0"

NO.	NAME	FLOOR	BASE	WALL				MATERIAL	FINISH	FINISH NOTES
				NORTH	EAST	SOUTH	WEST			
320	CORRIDOR	EXISTING	EXIST, RB1	EXIST	EXIST	EXIST	EXIST, PL1	EXIST/PL1	-/-	1, 2
333	STUDENT COMMONS	LVT1, LVT2	RB1	PL1	PL1	PL1, VWC1	PL1, P1, P2	ACP/PL1/GYP BD	-/-/P1	3, 4, 5
<b>ABBREVIATION:</b>				<b>NOTES:</b>						
ACP	ACOUSTICAL CEILING PANEL			1. INSTALL RUBBER BASE ON ALL BUILT-IN BENCH MILLWORK. REFER TO DETAILS.						
EXIST	EXISTING			2. PATCH AND REPAIR EXISTING CORRIDOR WALLS, FLOORS AND BASE TO REMAIN AS REQUIRED AT AREAS OF CONSTRUCTION. MATCH EXISTING FINISHES.						
GYP BD	GYPSUM BOARD			3. REFER TO SHEET A701 FOR EXTENT OF VWC1.						
LVT	LUXURY VINYL TILE			4. REFER TO SHEET A701 FOR EXTENT OF PAINT P1 AND P2 AT WALLS.						
P	PAINT			5. REFER TO SHEET A711 FOR LOCATION OF P1 AT CEILING.						
PL	PLASTIC LAMINATE			<b>GENERAL NOTES:</b>						
RB	RUBBER BASE			• REFER TO FINISH PLANS, REFLECTED CEILING PLANS AND ELEVATIONS FOR FINISH LOCATIONS AND ADDITIONAL INFORMATION.						
VWC	VINYL WALLCOVERING			• INSTALL FINISHES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO PROJECT SPECIFICATIONS.						
				• AT AREAS OF WALL REPAIR, PAINT ENTIRE SURFACE OF WALL.						



KEY PLAN  
NORTH



WAYNE STATE UNIVERSITY

fic&h

engineers  
scientists  
architects  
constructors

fishbeck, thompson, carr & huber, inc.  
www.fic&h.com

Wayne State University

5557 Cass Ave, Detroit, MI 48202

Cohn Building Student Commons

WSU PROJECT NUMBER: 048-291367

REVISIONS

10/31/2019 Permits and Bids  
Drawn By JP  
Designer YF/CT  
Reviewer VJM  
Manager VJM

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PROJECT NO.  
190812

THIRD FLOOR REFLECTED  
CEILING PLAN

A711

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GENERAL CEILING PLAN NOTES

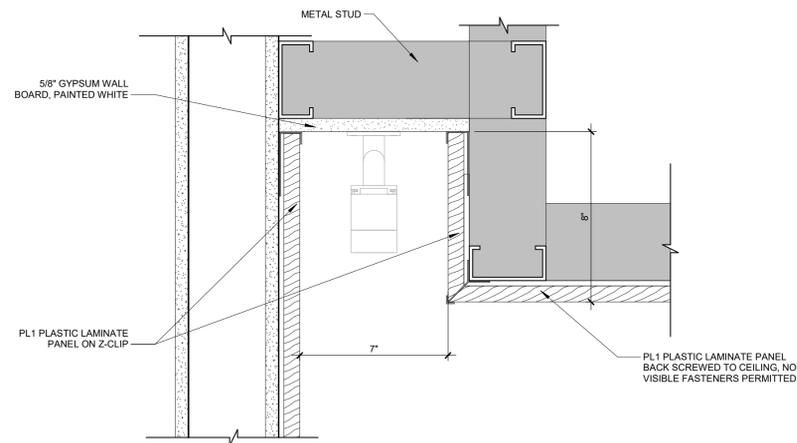
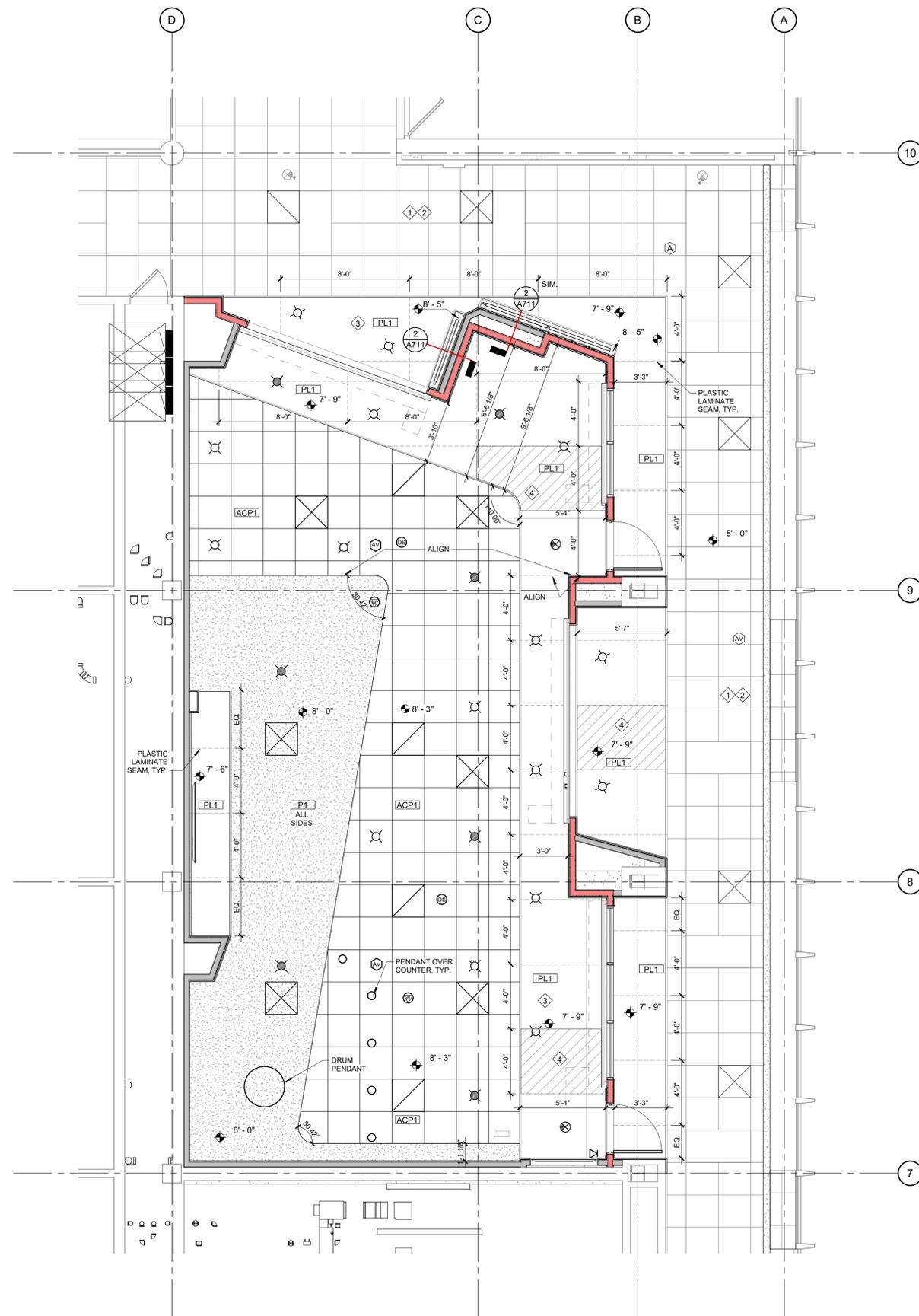
- CONTINUE FIRE RATED PARTITIONS AT INTERSECTIONS WITH NON-RATED PARTITIONS. CONTINUE ACOUSTIC PARTITIONS AT INTERSECTIONS WITH NON-ACOUSTIC PARTITIONS. COORDINATE PARTITION FIRE RATING REQUIREMENTS AS INDICATED ON LIFE SAFETY AND REFLECTED CEILING PLAN.
- PATCH AND REPAIR WALLS, COLUMN ENCLOSURES AND FLOORS TO ENSURE FLUSH, EVEN, LEVEL SURFACE TO RECEIVE FINISH MATERIAL.
- PROVIDE TEMPORARY CONSTRUCTION PARTITIONS OUTSIDE OF PROJECT AREA PER HOSPITAL STANDARDS AND INFECTION CONTROL REQUIREMENTS.
- ALL WORK TO ADHERE TO AND FOLLOW CURRENT WSU STANDARDS, SPECIFICATIONS AND DETAILS.
- ALL DISRUPTIVE CONSTRUCTION CAUSING NOISE AND VIBRATION TO SURROUNDING SPACES MUST BE COORDINATED WITH UNIVERSITY STAFF AND REQUIRED TO BE PERFORMED OUTSIDE OF BUSINESS HOURS.
- NEW SPRINKLER HEAD LOCATIONS DEPENDENT UPON FINAL DESIGN BY SPRINKLER CONTRACTOR. CENTER ALL HEADS WITHIN CEILING TILES. REFER TO MECHANICAL.
- CENTER NEW CEILING GRID WITHIN ROOMS AS SHOWN U.N.O.

RCP SYMBOL LEGEND

- 2x4 LIGHT FIXTURE
- 2x2 LIGHT FIXTURE
- INDUSTRIAL OR STRIP LIGHT FIXTURE
- SURFACE OR RECESSED LIGHT FIXTURE
- CEILING MOUNTED EXIT SIGN
- CEILING MOUNTED SPEAKER
- FIRE ALARM SMOKE DETECTOR
- FIRE ALARM HEAT DETECTOR
- RETURN OR EXHAUST AIR GRILLE
- SUPPLY AIR DIFFUSER
- SLOT DIFFUSER
- ACCESS PANEL
- GYP. BOARD BULKHEAD, SOFFIT OR CEILING
- FIRE RATED GYP. BOARD BULKHEAD, SOFFIT OR CEILING
- CONTROL JOINT
- CEILING TILE AND GRID
- FIRE RATED CEILING TILE AND GRID
- CEILING HEIGHT ELEVATION

KEY NOTES

- REINSTALL STORED CEILING TILE AND GRID SYSTEM WHERE OVERHEAD STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL WORK ARE PRESENT OUTSIDE OF ARCHITECTURAL SCOPE. PROVIDE NEW CEILING TILE AND GRID PIECES AS NECESSARY. COORDINATE WITH MECHANICAL AND ELECTRICAL. SUPPLEMENT WITH NEW TILES AND GRIDS AS DAMAGED BY REMOVAL AND STORAGE.
- AREA OCCUPIED DURING DEMOLITION AND CONSTRUCTION. NEW CEILING TILE AND GRID SYSTEM ALONG WITH MECHANICAL AND ELECTRICAL WITHIN THIS AREA TO BE COMPLETED DURING OFF HOURS, PRIOR TO COMPLETION OF PROJECT. COORDINATE WORK WITH OWNER'S REPRESENTATIVE TO SCHEDULE WORK.
- PL1 PLASTIC LAMINATE PANEL BACK SCREWED TO CEILING STRUCTURE. NO VISIBLE FASTENERS ARE PERMITTED. PROVIDE SEAM ALUMINUM TRIM LOCATIONS FOR ARCHITECT APPROVAL ON MILLWORK SHOP DRAWINGS.
- SHADED AREA INDICATES APPROXIMATE LOCATION FOR REMOVABLE CEILING PANEL TO PROVIDE ACCESS TO DAMPER OR DOOR MOTOR. COORDINATE EXACT LOCATION IN THE FIELD. CONTRACTOR SHALL PROVIDE INTEGRAL CEILING ACCESS PANEL TO MATCH PLASTIC LAMINATE CEILING SYSTEM AND PATTERN. PROVIDE DETAILS IN MILLWORK SHOP DRAWINGS FOR ARCHITECT APPROVAL.



2 SECTION @ COVE LIGHT  
SCALE: 3" = 1'-0"

REFLECTED CEILING PLAN  
SCALE: 1/4" = 1'-0"





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INTERIOR ELEVATIONS

A721

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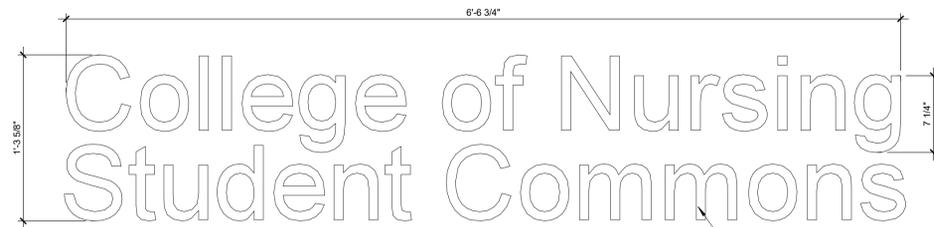
COLOR SCHEDULES

1. ALL SIGN ELEMENTS ARE 1/2" THICK.
2. ALL SIGN ELEMENTS ARE TO BE PIN MOUNTED AND ARE TO STAND OFF STOREFRONT BULKHEAD 1/2".
3. ALL ELEMENTS RETURN AND BACKS TO BE STAINLESS STEEL.
4. INSTALLATION WILL BE PIN MOUNTED ONTO SIGN BAND.
5. STAINLESS STEEL TO BE #4 BRUSHED.

NOTES:

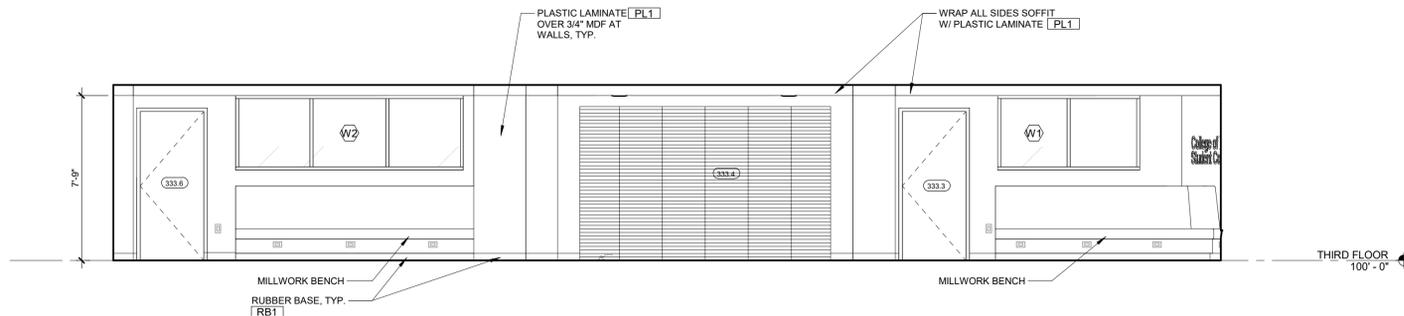
THESE DRAWINGS REPRESENT DESIGN INTENT ONLY. REFER TO SIGN CONTRACTOR'S SHOP DRAWINGS FOR ACTUAL CONSTRUCTION AND DIMENSIONS.

- FONT STYLE TO BE PROVIDED BY WSU PRIOR TO PRODUCTION OF SHOP DRAWINGS.

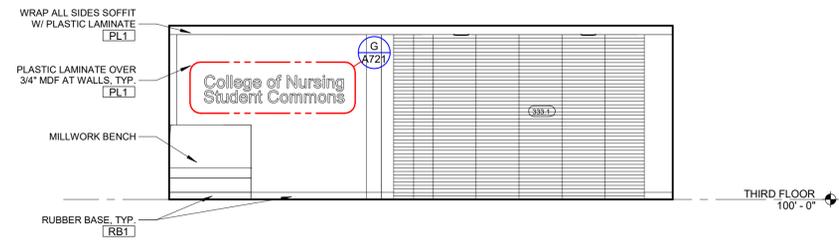


G ENLARGED SIGN  
SCALE: 1 1/2" = 1'-0"

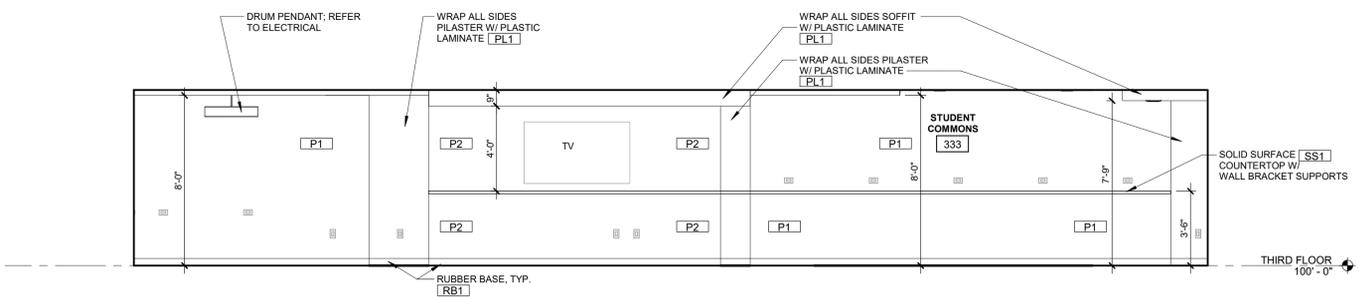
SIGN TO BE 1/2" ROUTED STAINLESS STEEL OVERLAY ON FACE AND RETURNS. CHANNEL POSTS MOUNTED 1/2" FROM WALL.



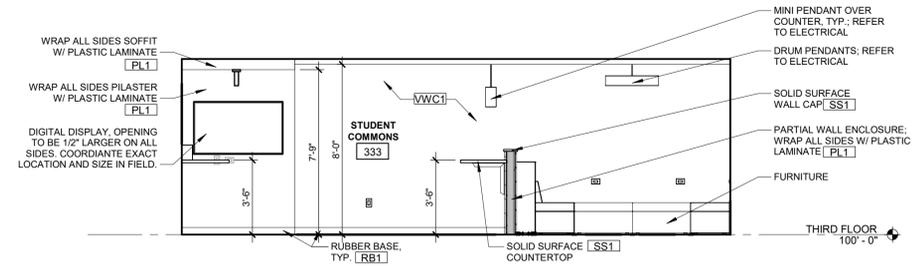
F INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



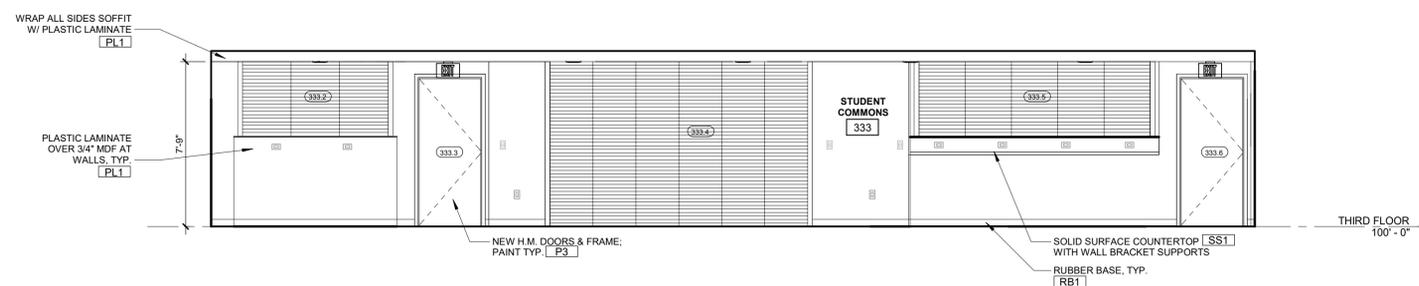
E INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



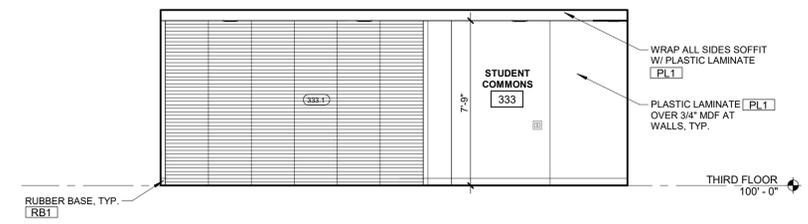
D WEST INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



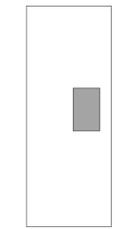
C SOUTH INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



B EAST INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



A NORTH INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



KEY PLAN  
NORTH

GENERAL NOTES

HVAC PIPING NOTES

- THE INSTALLATION OF ALL PIPING SHALL BE CLOSELY COORDINATED WITH NEW SHEET METAL, PLUMBING, ELECTRICAL, AND STRUCTURAL CONDITIONS. NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED, BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES.
- DUCT, PIPING AND EQUIPMENT SHOWN LIGHTLY IS EXISTING TO REMAIN.
- AT RENOVATED AREAS THE INDICATED ROUTING OF PIPING SYSTEMS IS INTENDED TO INDICATE REUSE OF AS MUCH OF THE EXISTING SYSTEMS AS POSSIBLE. THE ROUTE SHOWN AND INFORMATION GIVEN IS NOT INTENDED TO REPRESENT EXACTLY WHERE AND HOW TO INSTALL THESE SYSTEMS. IT HAS BEEN DETERMINED THAT ADEQUATE SPACE EXISTS BUT NO ATTEMPT HAS BEEN MADE TO INDICATE THE LOCATION AND IDENTITY OF EVERY INTERFERENCE, NOR THE RESULTANT REQUIRED RESOLUTION OF INTERFERENCES. ADDITIONAL PIPE, MATERIAL, LABOR AND LAYOUT TIME REQUIRED TO RESOLVE INTERFERENCES AND THEIR REROUTING SHALL BE INCLUDED.
- PIPE ROUTING AS INDICATED IS SCHEMATIC IN CONCEPT. FIELD LOCATE EXACT TIE-IN POINTS TO EXISTING PIPING. FINAL ROUTING SHALL BE COORDINATED WITH SHEET METAL, ELECTRICAL, AND STRUCTURAL SYSTEMS. ALL NECESSARY OFFSETS SHALL BE PROVIDED. COORDINATE TIME OF EXISTING PIPING REROUTING WITH OWNER TO MINIMIZE DOWNTIME.
- SHUTOFF VALVES SHALL BE PROVIDED ON ALL RUNOUT PIPING SERVING MULTIPLE COILS.
- ALL PIPING SHALL BE INSTALLED TO CLEAR COIL REMOVAL AND ACCESS PANELS.
- CEILING GRID AND TILES SHALL BE REMOVED AND REPLACED AS REQUIRED TO ACCESS WORK. DAMAGED GRID AND TILE SHALL BE REPLACED TO MATCH EXISTING.
- PIPE ANCHORS, EXPANSION LOOPS, AND JOINTS AND GUIDES SHALL BE PROVIDED AS REQUIRED. REFER TO SPECIFICATIONS.
- ALL NEW AND EXISTING COILS SHALL BE BALANCED WHERE FLOW IS INDICATED.
- PROVIDE ISOLATION, DRAIN AND FILLING OF EXISTING PIPING SYSTEMS AS REQUIRED TO PERFORM THE WORK.
- WHERE NEW CONNECTIONS TO EXISTING PIPE ARE INDICATED, SYSTEM SERVICE INTERRUPTION IS TO BE MINIMIZED AND COORDINATED WITH OWNER. TIE-IN METHODS TO INCLUDE HOT TAP AS REQUIRED.
- NEW PIPING SHALL NOT BE ROUTED OVER ELECTRICAL GEAR UNLESS IT MEETS THE CLEARANCE REQUIREMENTS OF THE NEC.
- VALVE INDICATIONS ARE GENERIC. REFER TO SPECIFICATION FOR ACCEPTABLE VALVE TYPES PER APPLICATION.
- PRIOR TO MAKING CONNECTIONS TO EXISTING PIPING FOR REUSE, CONFIRM THAT EXISTING PIPING BEING TIED INTO IS ACTIVE FOR REUSE.

HVAC DEMOLITION NOTES

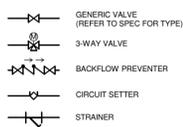
- REMOVE ALL PORTIONS OF WORK IDENTIFIED BY CROSS HATCHING UNLESS NOTED OTHERWISE.
- FIELD DETERMINE EXACT LOCATIONS AND REMOVE PORTIONS OF DUCTWORK, PIPING AND EQUIPMENT SHOWN BY CROSS-HATCHING. SCHEDULE SHUT-DOWNS WITH OWNER. CAP ALL OPEN DUCT AND PIPE ENDS AT END OF WORK DAY. REFER TO OTHER DRAWINGS FOR COORDINATION OF EXTENT OF DEMOLITION WITH NEW WORK.
- OPENINGS LEFT BY DEMOLITION IN WALLS AND FLOORS SHALL BE PATCHED TO MATCH SURROUNDING SURFACES.
- PIPE AND DUCT INSULATION THAT IS DAMAGED DURING DEMOLITION SHALL BE REPAIRED TO ORIGINAL CONDITION.
- WHERE DEMOLITION REQUIRES THE REMOVAL OF CEILINGS, PROVIDE REMOVAL AND REINSTALLATION OF CEILINGS. DAMAGED CEILING TILES AND GRID SHALL BE REPLACED.
- FIRESTOP SHALL BE PROVIDED IN NEW AND EXISTING HOLES AND PENETRATIONS IN CORRIDORS AND OTHER RATED WALLS IN AREAS OF DEMOLITION WORK.
- PROVIDE ISOLATION, DRAIN AND FILLING OF PIPING SYSTEMS AS REQUIRED TO PERFORM THE WORK OF DEMOLITION.
- REMOVE ALL POWER, CONTROL WIRING, AND DEVICES ASSOCIATED WITH EQUIPMENT BEING REMOVED.

SHEET METAL NOTES

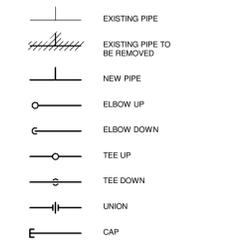
- THE INSTALLATION OF ALL DUCTWORK SHALL BE CLOSELY COORDINATED WITH NEW PLUMBING, ELECTRICAL, AND STRUCTURAL CONDITIONS. NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED, BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES. ALTERNATE DUCT ROUTING SHALL BE APPROVED BEFORE PROCEEDING IN ORDER TO ENSURE THAT THE AVAILABLE STATIC PRESSURE REMAINS ADEQUATE. DUCTWORK LOCATION SHALL TAKE PRECEDENCE OVER HVAC AND FIRE PROTECTION PIPING AND ELECTRICAL CONDUIT AND CABLE TRAY.
- REFER TO DUCT TAKEOFF DETAILS. SPIN-IN TYPE WITH SCOOPS SHALL NOT BE ACCEPTED. A MINIMUM OF 2 FEET SHALL BE PROVIDED BETWEEN RUNOUT TAKEOFFS FROM TRUNK DUCTS.
- THERMOSTAT LOCATIONS SHALL BE VERIFIED WITH ARCHITECT AND ENGINEER BEFORE ROUGH-IN.
- EXISTING DUCTWORK AND EQUIPMENT SHOWN LIGHTLY SHALL REMAIN.
- RUNOUT BALANCING DAMPERS SHALL BE MOUNTED AS CLOSE TO THE MAIN DUCT AS POSSIBLE.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIFFUSER LOCATIONS.
- NEW DUCTWORK AND PIPE ROUTING AS INDICATED ARE SCHEMATIC IN CONCEPT. FIELD LOCATE EXACT TIE-IN POINTS TO EXISTING DUCTWORK AND COORDINATE FINAL ROUTING WITH EXISTING CONDITIONS AND NEW EQUIPMENT. PROVIDE ALL NECESSARY OFFSETS. COORDINATE TIME OF EXISTING DUCTWORK REROUTING WITH OWNER TO MINIMIZE DOWNTIME.
- AT RENOVATED AREAS THE INDICATED ROUTING OF DUCTWORK SYSTEMS IS INTENDED TO INDICATE REUSE OF AS MUCH OF THE EXISTING SYSTEMS AS POSSIBLE. THE ROUTE SHOWN AND INFORMATION GIVEN IS NOT INTENDED TO REPRESENT EXACTLY WHERE AND HOW TO INSTALL THESE SYSTEMS. IT HAS BEEN DETERMINED THAT ADEQUATE SPACE EXISTS BUT NO ATTEMPT HAS BEEN MADE TO INDICATE THE LOCATION AND IDENTITY OF EVERY INTERFERENCE, NOR THE RESULTANT REQUIRED RESOLUTION OF INTERFERENCES. ADDITIONAL DUCT, MATERIAL, LABOR AND LAYOUT TIME REQUIRED TO RESOLVE INTERFERENCES AND THEIR REROUTING SHALL BE INCLUDED.
- TERMINAL UNITS SHALL BE MOUNTED TO NOT IMPAIR ACCESS TO FILTERS, COILS AND CONTROLS.
- EXISTING DAMAGED DUCT LINING AND INSULATION SHALL BE REPAIRED AND SEALED WHERE ACCESSIBLE. FIELD VERIFY LOCATIONS.
- CEILING GRID AND TILE SHALL BE REMOVED AND REPLACED AS REQUIRED TO ACCESS THE WORK. DAMAGED GRID AND TILE SHALL BE REPLACED TO MATCH EXISTING.
- ALL NEW AND EXISTING DIFFUSERS AND GRILLES SHALL BE REBALANCED TO CFM INDICATED.
- TO REDUCE NOISE, A MAXIMUM OF 5' OF INSULATED FLEX DUCT SHALL BE PROVIDED AT RUNOUTS TO DIFFUSERS.

LEGEND

VALVE SYMBOLS



PIPE/FITTING SYMBOLS



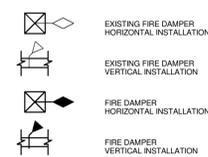
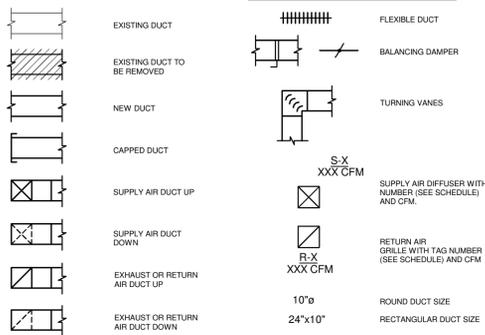
PIPING DESIGNATION



GENERAL DESIGNATION



HVAC DUCTWORK SYMBOLS

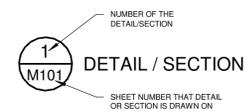


GENERAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AI	ACOUSTICAL INSULATION	MD	MOTORIZED DAMPER
AL	ACCESS PANEL	NC	NOT IN CONTRACT
AP	ACCESS PANEL	OA	OUTSIDE AIR
BD	BALANCING DAMPER	RA	RETURN AIR
BDD	BACKDRAFT DAMPER	RF	RETURN FAN
CI	CAST IRON	RAG	RETURN AIR GRILLE
CS	CLINIC SINK	RC	RAIN CONDUCTOR
DF	DRINKING FOUNTAIN	RD	ROOF DRAIN
EA	EXHAUST AIR	S	SINK
EF	EXHAUST FAN	SA	SUPPLY AIR
EAG	EXHAUST AIR GRILLE	SF	SUPPLY FAN
EC	ELECTRICAL CONTRACTOR	SH	SHOWER
EM SH	EMERGENCY SHOWER	SS	SERVICE SINK
EW	EYEWASH	TCC	TEMPERATURE CONTROL COOLER
EWC	ELECTRIC WATER COOLER	UR	URINAL
FC	FLEXIBLE CONNECTION	VAV	VARIABLE AIR VOLUME
FD	FLOOR DRAIN	VI	VIOLATION ISOLATOR
FS	FLOOR SINK	VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR	WC	WATER CLOSET
HB	HOSE BIBB	WC	WATER COLUMN
IE	INVERT ELEVATION	WH	WALL HYDRANT
L	LOUVER	WS	WASTE STACK
LAV	LAVATORY	YH	YARD HYDRANT

PIPE CONTENTS ABBREVIATIONS

AR	ARGON GAS
AV	ACID VENT
AW	ACID WASTE
BF	BOILER FEED
CA	COMPRESSED AIR
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
COND	CONDENSATE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
DWR	DEIONIZED WATER RETURN
DWS	DEIONIZED WATER SUPPLY
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FP	FIRE PROTECTION WATER SUPPLY
G	GAS SUPPLY
HPS	HIGH PRESSURE STEAM
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LA	LABORATORY AIR
LPS	LOW PRESSURE STEAM
LV	LABORATORY VACUUM
MA	MEDICAL AIR
MPS	MEDIUM PRESSURE STEAM
N2	NITROGEN
N2O	NITROUS OXIDE
NPW	NON-POTABLE WATER
OXY	OXYGEN
PC	PUMPED CONDENSATE
PHWR	PRIMARY HEATING WATER RETURN
PHWS	PRIMARY HEATING WATER SUPPLY
PW	POTABLE WATER
RHS	REHEAT RETURN
RHR	REHEAT SUPPLY
ROR	REVERSE OSMOSIS WATER RETURN
ROS	REVERSE OSMOSIS WATER SUPPLY
SAN	SANITARY
SCW	SOFT COLD WATER
SH	STEAM
STM	STORM SEWER
V	VENTILATION
VAC	VACUUM
WWR	WELL WATER RETURN
WWS	WELL WATER SUPPLY



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WSU PROJECT NUMBER: 048-291367

REVISIONS

10/31/2019 Permits and Bids  
Drawn By RMZ  
Designer RMZ  
Reviewer JLM  
Manager VJM

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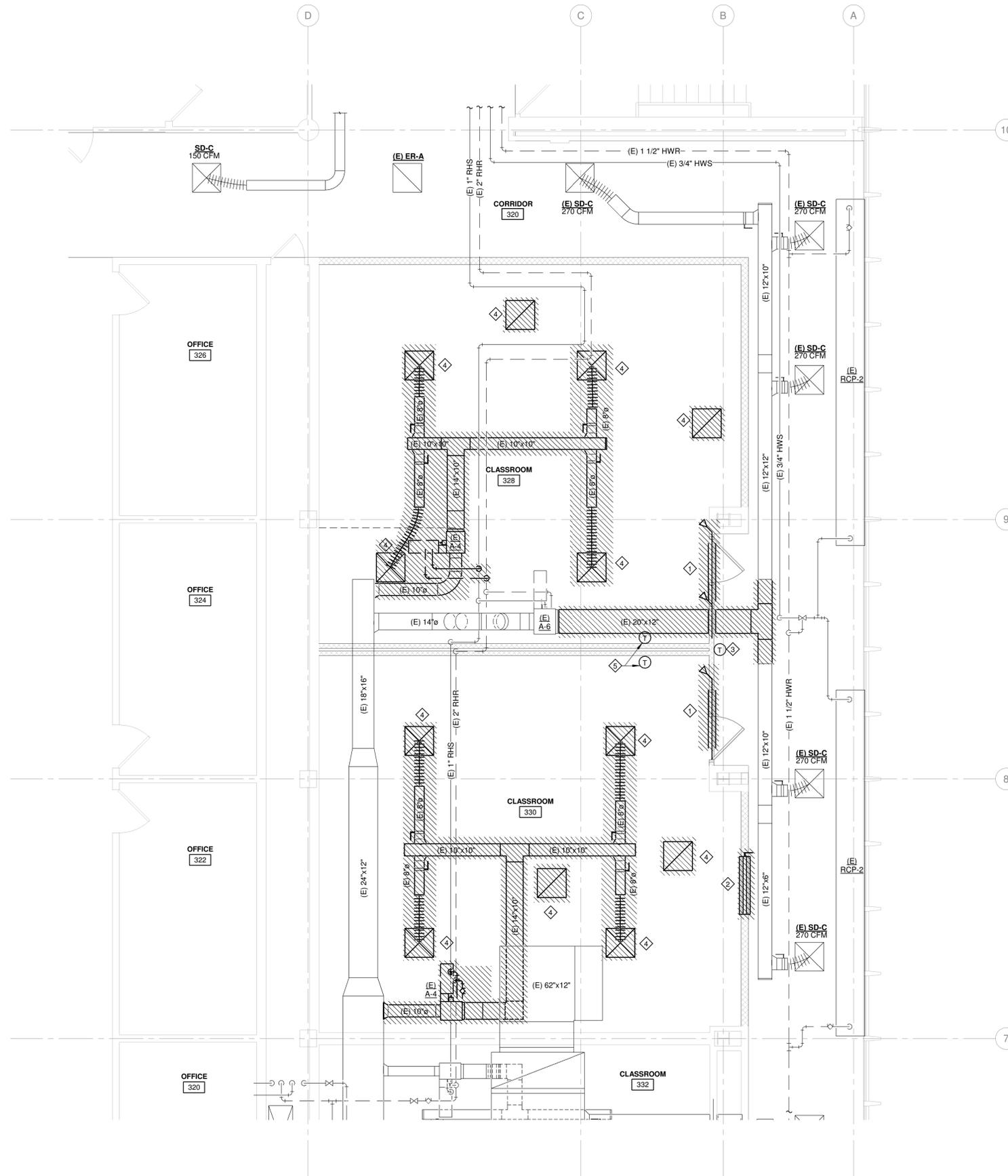
PROJECT NO.  
190812

GENERAL NOTES AND  
LEGEND

M001

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◆ KEY NOTES

1. REMOVE FIRE DAMPER.
2. REMOVE MANUAL DAMPER.
3. REMOVE THERMOSTAT AND WIRING. SAVE THERMOSTAT TO BE RELOCATED.
4. REMOVE VAV, DUCTWORK, FLEX DUCT, DIFFUSER, RETURN GRILLES, AND PIPING AS SHOWN WITH CROSSHATCHED. PATCH AND SEAL DUCT AT MAIN WHERE BRANCH IS REMOVED. (TYP)
5. REMOVE THERMOSTAT AND ASSOCIATED WIRING.



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PROJECT NO.  
**190812**

MECHANICAL AND PLUMBING  
DEMOLITION PLAN

**MD101**

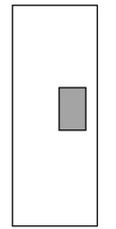
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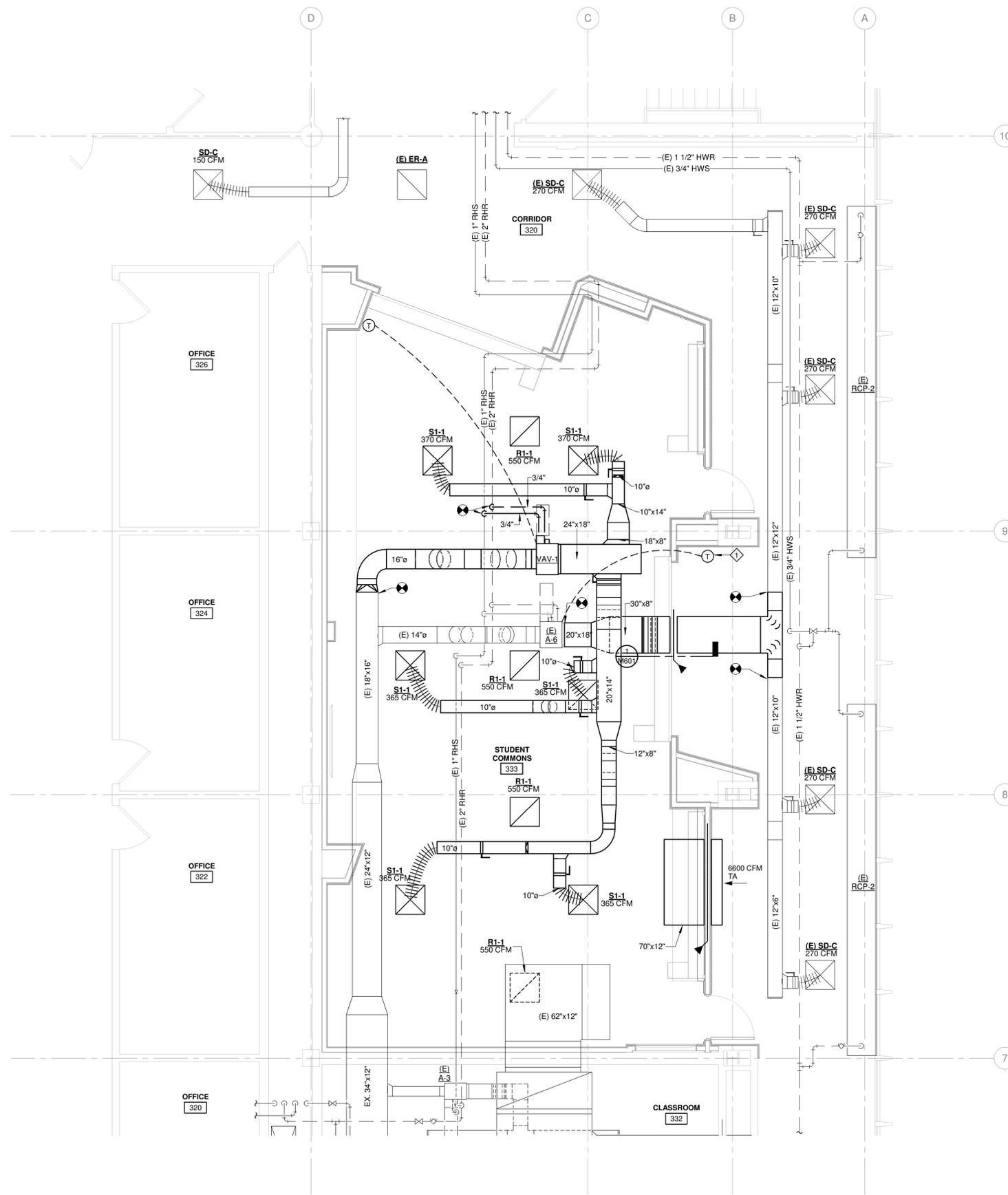
NORTH

**PLUMBING AND MECHANICAL DEMOLITION PLAN**

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



KEY PLAN  
NORTH



**KEY NOTES**  
 1. RELOCATE EXISTING THERMOSTATS WITH NEW WIRING TO INDICATED LOCATION.

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**REVISIONS**

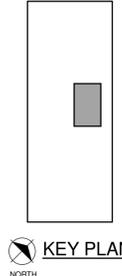
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PROJECT NO.  
**190812**  
 MECHANICAL PLAN

**M201**  
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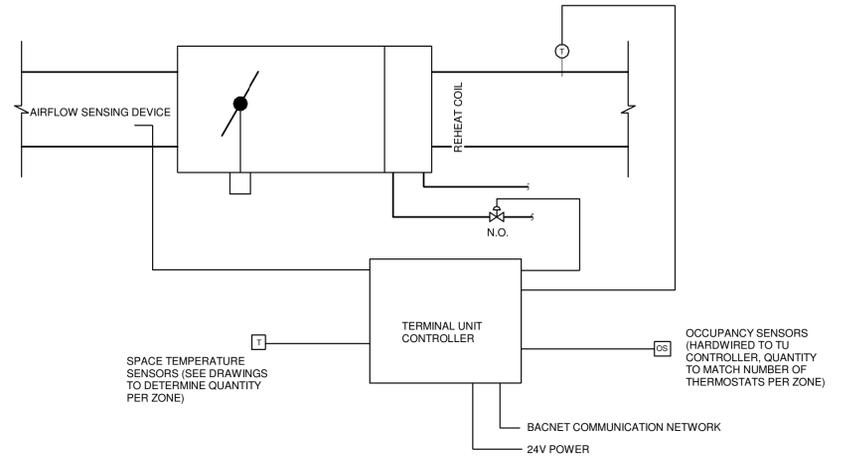
**THIRD FLOOR MECHANICAL PLAN**  
 SCALE: 1/4" = 1'-0"  
 NORTH



PLOT INFO: 10/31/2019 10:00:18 AM C:\Work\Revit\2019\_M\_190812\_mzaccagni.rvt

REGISTER, GRILLE AND DIFFUSER SCHEDULE											
ID TAG	MFG	MODEL	NECK SIZE (IN)	FACE SIZE (IN)	MAX APD (IN WC)	MAX NC	THROW PATTERN	MATERIAL	FINISH	DAMPER (Y/N)	NOTES
R1-1	TITUS	PAR	18x18	24x24	0.10	25	4-WAY	STEEL	WHITE	No	
S1-1	TITUS	OMNI	10"	24x24	0.10	25	4-WAY	STEEL	WHITE	No	

VAV TERMINAL UNIT SCHEDULE																
ID TAG	GENERAL TYPE	MFG	MODEL	CFM MAX	CFM MIN	HEATING								VALVE	NOTES	
						EAT (F DB)	LAT (F DB)	MBH	GPM	NUMBER OF ROWS	APD (IN WC)	WPD (FT)	HEATING EWT (F)			HEATING LWT (F)
VAV-1	16"	TITUS	ESV	2200	500	55	93	20	2	1	0.14	1.31	200	180	Yes	



**TERMINAL UNITS WITH HEATING COILS**  
 NOTES:  
 A. THE SPACE OCCUPANCY SENSOR IS FURNISHED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. THE CONTROL WIRING BETWEEN THE TERMINAL BOX CONTROLLER AND THE OCCUPANCY SENSOR SHALL BE BY THE TEMPERATURE CONTROL CONTRACTOR.  
 B. THE TERMINAL BOX CONTROLLER, DAMPER ACTUATOR AND AIR FLOW PROBE ARE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR. THESE DEVICES SHALL BE SHIPPED TO THE MANUFACTURER. ALL OTHER FIELD MOUNTED CONTROL DEVICES ARE FURNISHED, MOUNTED AND WIRED BY THE TEMPERATURE CONTROL CONTRACTOR.

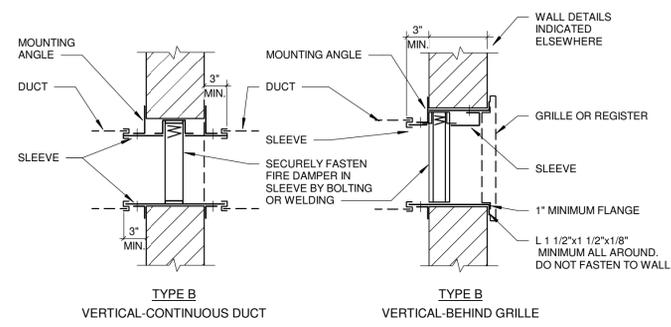
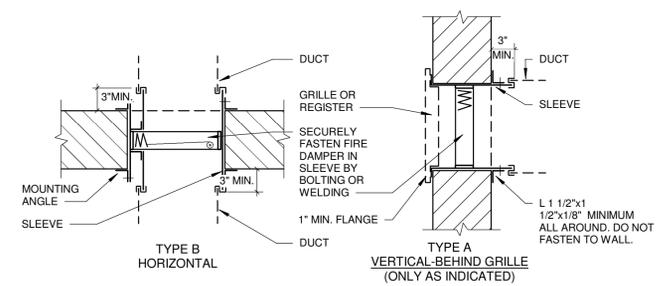
**SEQUENCE OF OPERATION:**  
 A. THE OPERATING MODE OF THE TERMINAL BOX SHALL BE AUTOMATICALLY CYCLED FROM THE OCCUPIED MODE TO THE UNOCCUPIED MODE OF OPERATION BASED ON A TIME CLOCK SCHEDULE AND THE SPACE MOUNTED OCCUPANCY SENSOR.  
 B. IN THE OCCUPIED MODE OF OPERATION (SCHEDULED OCCUPIED AND SPACE SENSOR OCCUPIED): THE SPACE TEMPERATURE SENSOR SHALL RESET THE TERMINAL BOX VOLUME CONTROLLER FROM MINIMUM DESIGN FLOW TO MAXIMUM DESIGN FLOW TO MAINTAIN THE SPACE AT THE COOLING SETPOINT. IF THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE TERMINAL BOX SHALL MAINTAIN THE MINIMUM DESIGN FLOW TO THE SPACE AND CONTROL THE TERMINAL BOX REHEAT COIL TO MAINTAIN SPACE TEMPERATURE SETPOINT. WHEN THE SPACE TEMPERATURE IS BETWEEN THE HEATING AND COOLING SETPOINTS, THE TERMINAL UNIT SHALL MAINTAIN MINIMUM DESIGN FLOW TO THE SPACE AND THE REHEAT COIL VALVES SHALL BE FULLY CLOSED.  
 C. IN THE UNOCCUPIED MODE OF OPERATION (SCHEDULED UNOCCUPIED AND SPACE SENSOR UNOCCUPIED): THE TERMINAL BOX SHALL CONTROL THE SAME AS IN SCHEDULED OCCUPIED AND SPACE SENSOR OCCUPIED, BUT SHALL CONTROL TO STANDBY SPACE TEMPERATURE SETPOINTS AND MINIMUM AIRFLOW SETPOINT SHALL BE RESET TO STANDBY MINIMUM (AS SCHEDULED).  
 D. IF THE TERMINAL UNIT TIME CLOCK SCHEDULE IS UNOCCUPIED, THE TERMINAL BOX VOLUME DAMPER SHALL BE CLOSED AND THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.  
 E. IF THE AIR HANDLING UNIT THAT SERVES THE TERMINAL BOX IS NOT OPERATING, THE TERMINAL UNIT DAMPER SHALL BE FULLY CLOSED AND THE REHEAT COIL SHALL BE FULLY CLOSED.  
 F. IF THE AIR HANDLING UNIT SYSTEM THAT SERVES THE TERMINAL UNIT IS ENERGIZED IN THE UNIT'S UNOCCUPIED MODE OF OPERATION, THE TERMINAL UNIT SHALL CONTROL THE SAME AS IN SCHEDULED OCCUPIED AND SPACE SENSOR OCCUPIED, BUT SHALL CONTROL TO UNOCCUPIED SPACE TEMPERATURE SETPOINTS AND MINIMUM AIRFLOW SETPOINT SHALL BE RESET TO STANDBY MINIMUM (AS SCHEDULED).  
 G. IF THE AIR HANDLING UNIT SYSTEM THAT SERVES THE TERMINAL UNIT IS ENERGIZED IN THE UNIT'S OPTIMIZED START MODE OF OPERATION, THE TERMINAL UNIT SHALL CONTROL TO OCCUPIED SPACE TEMPERATURE SETPOINTS AND AIRFLOW SETPOINTS.  
 H. ASSOCIATED CONTROL POINTS

- A. SPACE TEMPERATURE SENSOR
- B. TERMINAL UNIT CONTROLLER
- C. OCCUPANCY SENSOR
- D. AIR FLOW SENSOR
- E. DISCHARGE AIR SENSOR
- F. HEATING COIL VALVE WITH ACTUATOR
- G. DAMPER ACTUATOR

TEMPERATURE SETPOINT SCHEDULE		
OCCUPANCY STATE	HEATING	COOLING
OCCUPIED	70	76
UNOCCUPIED STANDBY	66	78
UNOCCUPIED	60	81

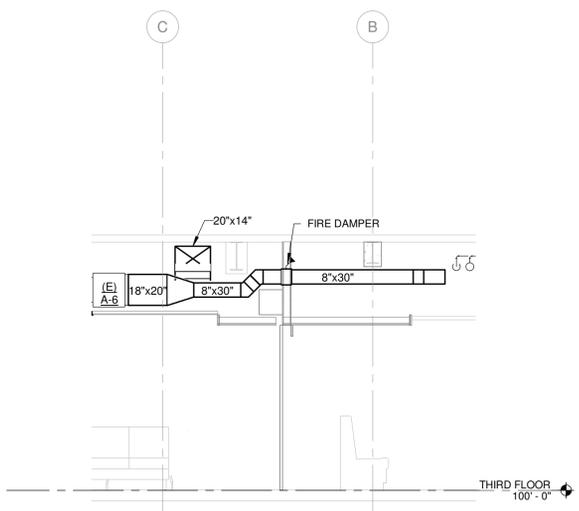
NOTES:  
 1. TIME OF DAY OCCUPIED / UNOCCUPIED HOURS TO BE DETERMINED  
 2. SETPOINTS TO BE OCCUPANT ADJUSTABLE BETWEEN SCHEDULED VALUES ABOVE. PROVIDE 2-DEGREE DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.

**TERMINAL BOX WITH REHEAT COIL**  
 NO SCALE

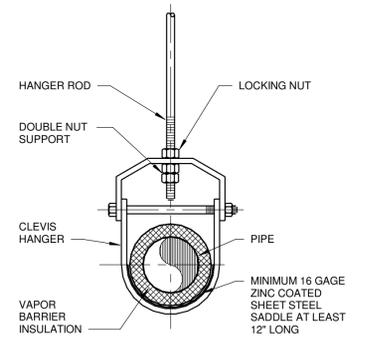


**NOTES**  
 1. USE TYPE B UNLESS NOTED OTHERWISE.  
 2. OPENINGS ARE TO BE 1/8" PER FOOT OF DAMPER SIZE LARGER THAN DAMPER IN BOTH DIRECTIONS; MINIMUM OF 1/4".  
 3. SLEEVES ARE TO BE OF GALVANIZED STEEL, GAGE AS REQUIRED BY SMACNA STANDARD OR LOCAL FIRE OFFICIAL, WHICHEVER REQUIREMENT IS MORE STRINGENT.

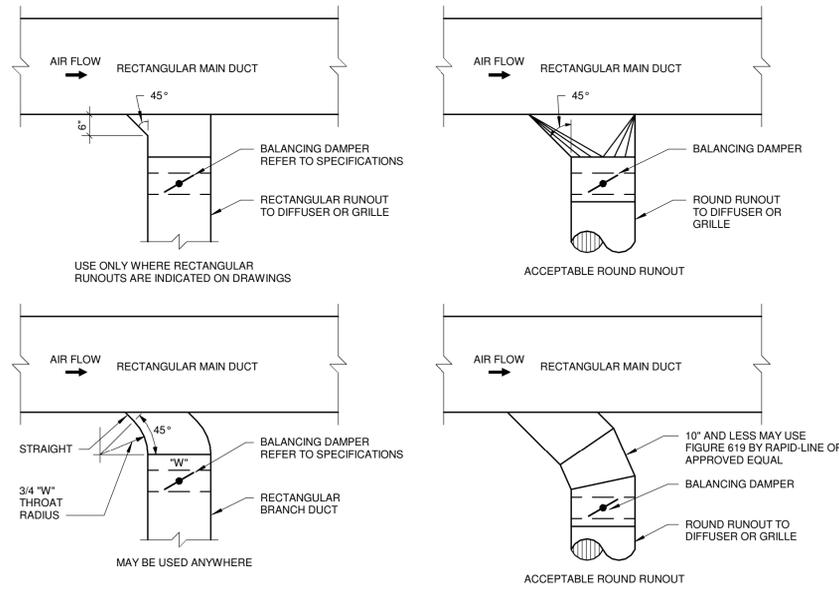
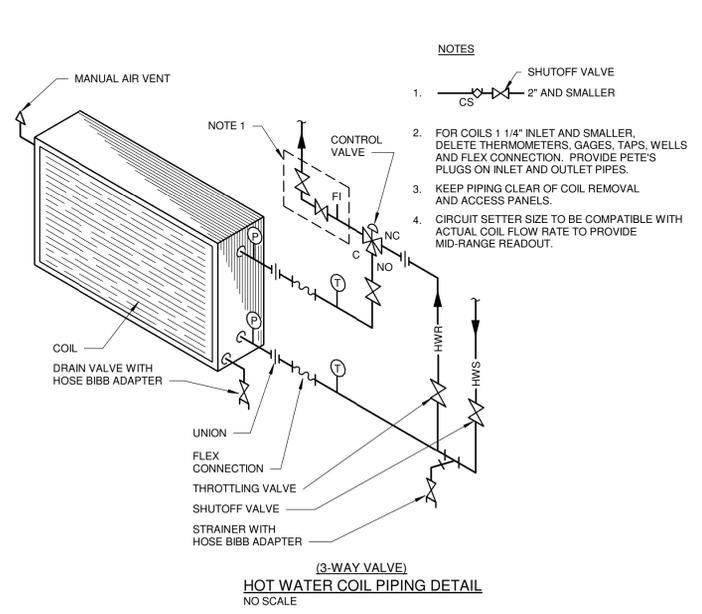
**FIRE DAMPER DETAILS**  
 NO SCALE



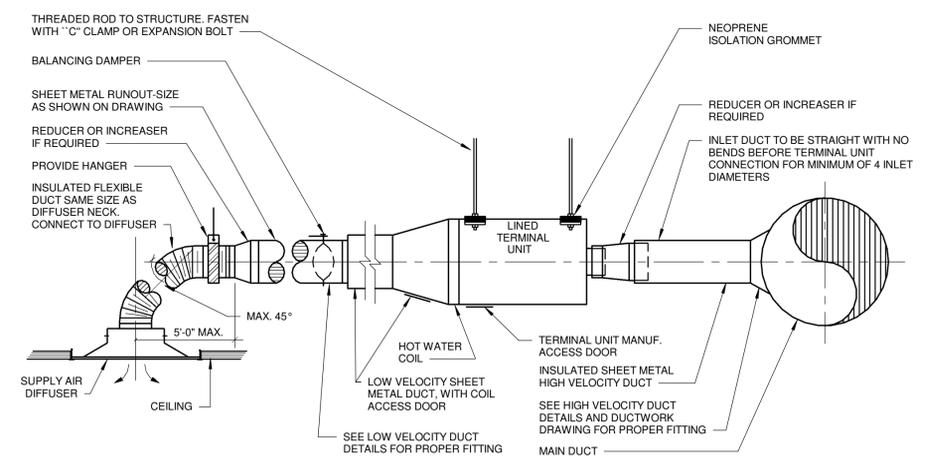
**MECHANICAL SECTION 1**  
 SCALE: 1/4" = 1'-0"



**SINGLE HORIZONTAL RUNS WITH VAPOR BARRIER INSULATION**  
**TYPICAL CLEVIS HANGER**  
 NO SCALE



**RUNOUT AND BRANCH CONNECTIONS**  
 NO SCALE



**TYPICAL TERMINAL UNIT AND DUCT INSTALLATION**  
 NO SCALE

**ELECTRICAL SYMBOL LEGEND**

SYMBOL	DESCRIPTION
S	SINGLE POLE MANUAL LIGHTING SWITCH
S <sub>2</sub>	TWO POLE MANUAL LIGHTING SWITCH
S <sub>3</sub>	THREE-WAY MANUAL LIGHTING SWITCH
S <sub>4</sub>	FOUR-WAY MANUAL LIGHTING SWITCH
S <sub>0</sub>	MANUAL DIMMER LIGHTING SWITCH
S <sub>P</sub>	SINGLE POLE MANUAL LIGHTING SWITCH WITH PILOT LIGHT
S <sub>T</sub>	MANUAL TIMER LIGHTING SWITCH
S <sub>F</sub>	SINGLE POLE MANUAL FUSED SWITCH
S <sub>M</sub>	SINGLE POLE MANUAL MOTOR STARTER
S <sub>MP</sub>	SINGLE POLE MANUAL MOTOR STARTER WITH PILOT LIGHT
S <sub>LV</sub>	SINGLE POLE LOW VOLTAGE SWITCH
S <sub>OC</sub>	OCCUPANCY SENSOR WALL SWITCH
⊙	CEILING MOUNTED OCCUPANCY SENSOR
⊙	WALL MOUNTED OCCUPANCY SENSOR
⊙	POWER PACK FOR OCCUPANCY SENSOR
⊙	RELAY PACK FOR OCCUPANCY SENSOR
⊙	UL 924 EMERGENCY LIGHTING CONTROL UNIT
⊙	CLG MTD DAYLIGHT HARVESTING PHOTO SENSOR
⊙	SIMPLEX RECEPTACLE
⊙	DUPLEX RECEPTACLE
⊙	DUPLEX RECEPTACLE (ABOVE COUNTER)
⊙	DOUBLE DUPLEX RECEPTACLE
⊙	DOUBLE DUPLEX RECEPTACLE (ABOVE COUNTER)
⊙	SPECIAL RECEPTACLE (AS NOTED)
⊙	CEILING MOUNTED SIMPLEX RECEPTACLE
⊙	CEILING MOUNTED DUPLEX RECEPTACLE
⊙	CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE
⊙	CEILING MOUNTED SPECIAL RECEPTACLE
⊙	SIMPLEX RECEPTACLE (CONTROLLED)
⊙	DUPLEX RECEPTACLE (CONTROLLED)
⊙	DUPLEX RECEPTACLE (CONTROLLED - ABOVE COUNTER)
⊙	DOUBLE DUPLEX RECEPTACLE (CONTROLLED)
⊙	DOUBLE DUPLEX RECEPTACLE (CONTROLLED - ABOVE COUNTER)
⊙	CEILING MOUNTED SIMPLEX RECEPTACLE (CONTROLLED)
⊙	CEILING MOUNTED DUPLEX RECEPTACLE (CONTROLLED)
⊙	CLG MTD DOUBLE DUPLEX RECEPTACLE (CONTROLLED)
⊙	POWER AND DATA POKE-THRU FLOOR DEVICE
⊙	POWER AND DATA FLOOR BOX
⊙	VIDEO MONITOR POWER AND DATA WALL BOX
⊙	CONTACTOR
⊙	CEILING MOUNTED JUNCTION BOX
⊙	WALL MOUNTED JUNCTION BOX
⊙	FLOOR MOUNTED JUNCTION BOX
⊙	PHOTOCELL
⊙	PUSHBUTTON
⊙	TIME CLOCK
⊙	LOW VOLTAGE TRANSFORMER
⊙	THERMOSTAT
⊙	HUMIDISTAT
⊙	SPECIAL CONNECTION (AS NOTED)
⊙	PANELBOARD (480Y/277V) OR (480V)
⊙	PANELBOARD (208Y/120V) OR (120/240V)
⊙	SINGLE PHASE MOTOR CONNECTION
⊙	THREE PHASE MOTOR CONNECTION
⊙	NON FUSIBLE DISCONNECT SWITCH
⊙	FUSIBLE DISCONNECT SWITCH (Z=NO. POLES; X=SWITCH SIZE; Y=FUSE SIZE; MOUNT AT 5'-0" AFF, UNO)
⊙	MOTOR STARTER (N=STARTER SIZE; X=STARTER TYPE, (RV: REDUCED VOLTAGE; BLANK: FULL VOLTAGE); MOUNT AT 5'-0" AFF, UNO)
⊙	COMBINATION MOTOR STARTER / DISCONNECT SWITCH (N=STARTER SIZE; X=STARTER TYPE, (RV: REDUCED VOLTAGE; BLANK: FULL VOLTAGE); MOUNT AT 5'-0" AFF, UNO)
⊙	GROUND ROD
⊙	CONDUIT UNDER FLOOR
⊙	CONDUIT ABOVE FLOOR
⊙	SURFACE OR RECESSED LUMINAIRE
⊙	SURFACE OR RECESSED DIRECTIONAL LUMINAIRE
⊙	WALL MOUNTED LUMINAIRE
⊙	TRACK MOUNTED LUMINAIRE
⊙	EMERGENCY LUMINAIRE
⊙	NIGHT LIGHT LUMINAIRE
⊙	EMERGENCY NIGHT LIGHT LUMINAIRE
⊙	BATTERY POWERED EMERGENCY LIGHTING UNIT
⊙	CEILING MOUNTED EXIT SIGN
⊙	WALL MOUNTED EXIT SIGN
⊙	SITE LUMINAIRE AND POLE

**FIRE ALARM SYMBOL LEGEND**

SYMBOL	DESCRIPTION
⊙	MAIN FIRE ALARM CONTROL PANEL
⊙	FIRE ALARM REMOTE ANNUNCIATOR PANEL
⊙	NOTIFICATION APPLIANCE CONTROL PANEL
⊙	MANUAL PULL STATION
⊙	HEAT DETECTOR; CEILING MOUNTED
⊙	HEAT DETECTOR; WALL MOUNTED
⊙	SMOKE DETECTOR; CEILING MOUNTED
⊙	SMOKE DETECTOR; WALL MOUNTED
⊙	ELEVATOR SMOKE DETECTOR
⊙	DUCT-TYPE SMOKE DETECTOR
⊙	BEAM-TYPE SMOKE DETECTOR; WALL MOUNTED
⊙	REMOTE TEST STATION; CEILING MOUNTED
⊙	REMOTE TEST STATION; WALL MOUNTED
⊙	CARBON MONOXIDE DETECTOR; CEILING MOUNTED
⊙	CARBON MONOXIDE DETECTOR; WALL MOUNTED
⊙	AUDIO DEVICE; CEILING MOUNTED
⊙	AUDIO DEVICE; WALL MOUNTED
⊙	VISUAL DEVICE; CEILING MOUNTED
⊙	VISUAL DEVICE; WALL MOUNTED
⊙	COMBINATION AUDIO/VISUAL DEVICE; CEILING MOUNTED
⊙	COMBINATION AUDIO/VISUAL DEVICE; WALL MOUNTED
⊙	SMOKE DAMPER
⊙	FIRE PROTECTION SPRINKLER FLOW SWITCH
⊙	FIRE PROTECTION SPRINKLER TAMPER SWITCH
⊙	FIRE PROTECTION POST INDICATOR VALVE
⊙	FIRE PROTECTION CO2 SYSTEM FLOW SWITCH
⊙	FIRE FIGHTER'S PHONE OUTLET
⊙	FIRE ALARM BELL
⊙	MAGNETIC DOOR HOLDER
⊙	FIRE ALARM INTERLOCK / CONTROL CONNECTION

**SYSTEMS SYMBOL LEGEND**

SYMBOL	DESCRIPTION
⊙	VOICE / DATA OUTLET
⊙	OUTLET FOR WALL MOUNTED TELEPHONE
⊙	DATA OUTLET; CEILING MOUNTED
⊙	WIRELESS ACCESS POINT OUTLET; CEILING MOUNTED
⊙	MICROPHONE OUTLET; WALL MOUNTED
⊙	MICROPHONE OUTLET; CEILING MOUNTED
⊙	POWER / DATA POLE
⊙	POWER / DATA FLOOR BOX
⊙	SPEAKER OUTLET; CEILING MOUNTED
⊙	SPEAKER OUTLET; WALL MOUNTED
⊙	VIDEO MONITOR OUTLET; WALL MOUNTED
⊙	CLOCK OUTLET; WALL MOUNTED
⊙	INTERCOM OUTLET; WALL MOUNTED
⊙	VOLUME CONTROL OUTLET; WALL MOUNTED
⊙	CABLE TRAY
⊙	VERTICAL CONDUIT SLEEVE; THROUGH FLOOR
⊙	HORIZONTAL CONDUIT SLEEVE; IN ACCESSIBLE CEILING SPACE

**SECURITY SYMBOL LEGEND**

SYMBOL	DESCRIPTION
⊙	CAMERA OUTLET; CEILING OR PENDANT MOUNTED
⊙	CAMERA OUTLET; WALL MOUNTED
⊙	KEYPAD CONTROLLER OUTLET
⊙	PROXIMITY CARD READER OUTLET
⊙	PANIC BUTTON OUTLET
⊙	MOTION DETECTOR OUTLET
⊙	GLASS BREAK SENSOR OUTLET
⊙	SECURITY SIREN OUTLET
⊙	DOOR PROP ALARM OUTLET
⊙	DOOR MAGNETIC CONTACTS
⊙	ELECTRIC DOOR STRIKE
⊙	ELECTRIC DOOR LATCH
⊙	ELECTRIC POWER TRANSFER HINGE
⊙	REQUEST-TO-EXIT DEVICE OUTLET

**GENERAL ELECTRICAL ABBREVIATIONS**

A, AMP	AMPERES	KW	KILOWATT
AC	ALTERNATING CURRENT	LED	LIGHT-EMITTING DIODE
AF	ABOVE FINISHED FLOOR	LS	LIGHT SWITCH OR LIMIT SWITCH
AHJ	AUTHORITY HAVING JURISDICTION	LTFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
AIC	AMPERE-INTERRUPTING CURRENT	LV	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
BMS	BUILDING MANAGEMENT SYSTEM	M	METER
BRKR	BREAKER	MCA	MINIMUM CIRCUIT AMPACITY
C	CONDUIT OR CELSIUS	MCB	MAIN CIRCUIT BREAKER
CB	CIRCUIT BREAKER	MCC	MOTOR CONTROL CENTER
CKT	CIRCUIT	MLO	MAIN LUGS ONLY
CLG	CEILING	MTD	MOUNTED
CONC	CONCRETE	MV	MEDIUM VOLTAGE
CP	CONTROL PANEL	N, NEUT	NEUTRAL
CT	CURRENT TRANSFORMER	NEC	NATIONAL ELECTRICAL CODE
CU	COPPER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
DEMO	DEMOLISH OR DEMOLITION	NOM	NOMINAL
DF	DRINKING FOUNTAIN	NTS	NOT TO SCALE
DISC	DISCONNECT	OH	OVERHEAD
DPDT	DOUBLE POLE DOUBLE THROW	OHD	OVERHEAD DOOR
DPST	DOUBLE POLE SINGLE THROW	OL	OVERLOAD
EC	ELECTRICAL CONTRACTOR	PB	PULL BOX OR PUSHBUTTON
EJ	EXPANSION JOINT	PCF	POWER FACTOR CORRECTION
ELEC	ELECTRICAL	PH	PHASE
EM	EMERGENCY	PNL	PANEL OR PANELBOARD
EMT	ELECTRICAL METALLIC TUBING	PWR	POWER
ENCL	ENCLOSURE	RECEPT	RECEPTACLE
ETR	EXISTING TO REMAIN	RM	ROOM
EWC	ELECTRIC WATER COOLER	RNMC	RIGID NON-METALLIC CONDUIT
EXIST	EXISTING	RMC	RIGID METAL CONDUIT
F	FUSE OR FAHRENHEIT	SEC	SECONDARY
FA	FIRE ALARM	SPD	SURGE PROTECTIVE DEVICE
FACP	FIRE ALARM CONTROL PANEL	SPDT	SINGLE POLE DOUBLE THROW
FF&E	FIXTURES, FURNISHINGS & EQUIPMENT	SPECS	SPECIFICATIONS
FIXT	FIXTURE	SPST	SINGLE POLE SINGLE THROW
FLA	FULL LOAD AMPERES	SQ	SQUARE
FM	FACTORY MUTUAL	SS	STAINLESS STEEL
FMC	FLEXIBLE METAL CONDUIT	SWBD	SWITCHBOARD
GC	GENERAL CONTRACTOR	SWGR	SWITCHGEAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TCC	TEMPERATURE CONTROL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER	TCF	TEMPERATURE CONTROL PANEL
GND, G	GROUND	TYP	TYPICAL
HOA	HAND-OFF-AUTO	UL	UNDERWRITERS LABORATORIES
HP	HORSE POWER	UNO	UNLESS NOTED OTHERWISE
HV	HIGH VOLTAGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
ID	INSIDE DIAMETER	V	VOLTS
JB	JUNCTION BOX	VA	VOLT-AMPERE
KO	KNOCKOUT	VAC	VOLTS-ALTERNATING CURRENT
KVA	KILOVOLT AMPERE	VFD	VARIABLE FREQUENCY DRIVE
		W	WATTS
		WH	WATER HEATER
		WP	WEATHERPROOF

**GENERAL NOTES**

- SYMBOLS AND GENERAL DESCRIPTIONS IN SYMBOL LEGENDS ARE INDICATED FOR GENERAL REFERENCE ONLY. NOT ALL SYMBOLS ARE USED ON THIS PROJECT. SEE SCHEDULES, SPECIFICATIONS AND PLANS FOR ADDITIONAL INFORMATION INCLUDING MOUNTING HEIGHTS.
- THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE ELECTRICAL DESIGN INTENT. PROVIDE ALL WORK AND MATERIALS THAT ARE REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS THAT FULLY MEET THE ELECTRICAL DESIGN INTENT. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST VERSION OF THE NEC AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. SEE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS AND ITEMS THAT MAY BE REQUIRED ABOVE AND BEYOND THE MINIMUM REQUIREMENTS THAT ARE OUTLINED IN THE NATIONAL ELECTRICAL CODE (NEC).
- THOROUGHLY AND CAREFULLY REVIEW ALL DRAWINGS, SPECIFICATIONS AND WORK SCOPES IN CONTRACT DOCUMENTS PRIOR TO BIDS AND CONSTRUCTION. WHERE THERE ARE CONFLICTS AMONG THE DRAWINGS, SPECIFICATIONS AND WORK SCOPES, THE MORE STRINGENT OR GREATER QUANTITY REQUIREMENTS SHALL APPLY.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED.
- SEE INDIVIDUAL SPECIFICATION SECTIONS FOR SPECIFIC REQUIREMENTS RELATED TO TESTING, MANUFACTURER STARTUP, TRAINING, ETC. ALL APPLICABLE TESTING AND MANUFACTURER STARTUP REPORTS SHALL BE SUBMITTED AND APPROVED PRIOR TO THE DEVELOPMENT OF ELECTRICAL PUNCH LISTS.
- ALL CONDUCTORS, INCLUDING THE GROUNDED CONDUCTORS (NEUTRALS), SHALL BE LABELED AT ALL ENDS AND JOINTS, WITH THE CORRESPONDING PANELBOARD NAME AND CIRCUIT NUMBER OR OTHERWISE IDENTIFIED TO CORRESPOND WITH THE ASSOCIATED EQUIPMENT MANUFACTURER'S IDENTIFICATION SYSTEM.
- AT A MINIMUM, PROVIDE #12, #12N, #12G FOR 20A BRANCH CIRCUITING, UNO. MINIMUM CONDUIT SIZE SHALL BE 3/4". UNO. NO MORE THAN NINE CURRENT CARRYING CONDUCTORS, SHALL BE ALLOWED IN A RACEWAY, UNO. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE NEC AND MAY BE SHARED. ALL GROUNDED CONDUCTORS (NEUTRALS) SHALL BE TREATED AS CURRENT CARRYING CONDUCTORS.
- PROVIDE A DEDICATED GROUNDED CONDUCTOR (NEUTRAL) FOR EACH BRANCH CIRCUIT. SHARED NEUTRALS ARE NOT ALLOWED.
- INSTALL GREEN, INSULATED, COPPER EQUIPMENT GROUNDING CONDUCTORS IN ALL RACEWAYS INCLUDING ALL FLEXIBLE METAL CONDUITS AND NON-METALLIC RACEWAYS. GREEN INSULATED, EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS.
- PROVIDE FIRE STOPPING FOR ALL CONDUIT AND OTHER ELECTRICAL EQUIPMENT PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS TO MAINTAIN FIRE RATINGS. SEE ARCHITECTURAL FOR THE SPECIFIED FIRE RATINGS OF FLOORS, WALLS, AND CEILINGS.
- LIMIT VOLTAGE DROP IN CONDUCTORS TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS, ASSUMING FULL LOAD CONDITIONS. VOLTAGE DROP SHALL NOT EXCEED 5% FROM THE ELECTRICAL SERVICE TO THE FURTHEST ELECTRICAL DEVICE.
- CALCULATE AND APPLY THE APPROPRIATE NEC DERATING FACTOR FOR CONDUCTORS INSTALLED IN ROOF MOUNTED CONDUITS.
- PROVIDE THERMAL SEALS IN ALL CONDUITS THAT RUN FROM CONDITIONED SPACES TO UNCONDITIONED SPACES.
- ALL WIRING FOR INTERIOR LED LUMINAIRES THAT ARE REQUIRED TO BE DIMMED SHALL INCLUDE (2) #18 AWG WIRES FROM EACH LUMINAIRE TO THE ASSOCIATED LIGHTING CONTROLLER FOR 0-10V LIGHTING CONTROL. ALL CONTROL WIRES SHALL BE LABELED.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR LOCATIONS OF CEILING AND WALL MOUNTED DEVICES.
- ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE.
- UNLESS NOTED OTHERWISE, ALL CONDUIT AND WIRING SHALL BE CONCEALED. ELECTRICAL CONNECTIONS SHOWN ON DRAWINGS ARE DIAGRAMMATIC AND ARE USED TO ILLUSTRATE CIRCUITING AND WIRING REQUIREMENTS ONLY.
- ALL JUNCTION BOXES SERVING BRANCH CIRCUIT WIRING SHALL BE LABELED TO IDENTIFY THE CIRCUIT(S) ROUTED THROUGH EACH RESPECTIVE JUNCTION BOX BY UTILIZING BRADY LABELS.
- WHERE PLENUMS ARE UTILIZED FOR HVAC AIR DISTRIBUTION, PROVIDE PLENUM RATED CABLES AND CONDUCTORS IN THOSE PLENUMS. SEE MECHANICAL FOR LOCATIONS OF HVAC PLENUMS.
- ELECTRICAL EQUIPMENT INSTALLED ABOVE CEILINGS SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS, SUCH AS, BUT NOT LIMITED TO, ABOVE DOORWAYS TO ROOMS. COORDINATE ALL LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH OTHER EQUIPMENT AND THE NEED FOR EXCESSIVELY LONG LADDER REQUIREMENTS TO ACCESS EQUIPMENT AND DIFFICULT AND AWKWARD CLIMBING AND/OR UNNECESSARY BENDING DURING SERVICING OF EQUIPMENT.
- CONDUCTORS INSTALLED IN WIREWAYS THAT CONTAIN MORE THAN 30 CURRENT CARRYING CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC.
- DO NOT USE LOAD CENTERS, PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER POWER DISTRIBUTION EQUIPMENT AS RACEWAYS.
- SEE SPECIFICATION SECTION 26 05 34, RACEWAYS FOR ELECTRICAL SYSTEMS, FOR PROJECT SPECIFIC RACEWAY INSTALLATION REQUIREMENTS.
- SEE SPECIFICATION SECTION 26 05 53, IDENTIFICATION FOR ELECTRICAL SYSTEMS, FOR PROJECT SPECIFIC IDENTIFICATION REQUIREMENTS.
- EXISTING ELECTRICAL ITEMS INDICATED IN THE CONTRACT DRAWINGS ARE BASED ON THE OWNER'S LIMITED RECORD DRAWINGS AND THE ENGINEER'S LIMITED FIELD OBSERVATIONS. CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTORS SHALL VISIT THE SITE TO UNDERSTAND COMPLETELY THE CONDITIONS UNDER WHICH THE WORK SHALL BE PERFORMED. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION OF DEVICES AND EQUIPMENT REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES AT NO ADDITIONAL COST TO THE OWNER.
- DRAWINGS DO NOT INDICATE ALL ELECTRICAL EQUIPMENT AND DEVICES INTENDED TO BE REMOVED. DRAWINGS INDICATE MAJOR ELECTRICAL EQUIPMENT, FIXTURES AND DEVICES THAT ARE REQUIRED TO BE REMOVED. CONTRACTOR SHALL REMOVE OR RELOCATE ELECTRICAL EQUIPMENT, FIXTURES AND DEVICES AS NECESSARY FOR A COMPLETE AND PROFESSIONAL INSTALLATION. SEE NEW LIGHTING, POWER, SYSTEMS, ARCHITECTURAL, PLUMBING AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- UNLESS NOTED OTHERWISE, DISPOSE ALL REMOVED MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. THE DISPOSAL OF MATERIALS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS INCLUDING TCLP TESTING.

**LUMINAIRE SCHEDULE (NEW)**

MARK	DESCRIPTION	MANUFACTURER	CATALOG NO.	OR EQUAL BY	LUMINAIRE DATA						REMARKS
					VOLTAGE	LOAD	LUMENS	CCT	CRI	DIMMING	
A	4.5-INCH APERTURE, RECESSED LED DOWN LIGHT, MULTI-VOLTAGE DRIVER	FOCAL POINT	FLC4D-RO-2500L-UNV-T-L-C4-RO-2500L-40K-DSS-SW-FL-NP	USAI, PORTFOLIO	120 V	32 VA	2,548 lm	4000 K	80	0-10V, 1%	
A1	SIMILAR TO TYPE "A" EXCEPT WITH BLACK PAINTED TRIM.	FOCAL POINT	FLC4D-RO-2500L-UNV-T-L-C4-RO-2500L-40K-DSS-SW-FL-BP	USAI, PORTFOLIO	120 V	32 VA	2,548 lm	4000 K	80	0-10V, 1%	
AE	SIMILAR TO TYPE "A" EXCEPT WITH ADDITIONAL INTEGRAL BATTERY INVERTER.	FOCAL POINT	FLC4D-RO-2500L-UNV-T-E-M-L-C4-RO-2500L-40K-DSS-SWFL-NP	USAI, PORTFOLIO	120 V	32 VA	2,548 lm	4000 K	80	0-10V, 1%	
B	14" TAPERED CYLINDER, 6.1" DIAMETER APERTURE, WHITE RUBBERIZED EXTERIOR, COPPER INTERIOR, E26 MEDIUM BASE SOCKET, FIELD CUTTABLE CLOTH CORD AND MATCHING CANOPY.	TECH LIGHTING	700-TD-WP-LED927.	LUMETTA -CAMMAN	120 V	75 VA	800 lm	4000 K	80	ELV, TRIAC	MOUNT FIXTURE SO THAT THE BOTTOM OF THE PENDANT IS 30" ABOVE THE COUNTER, UNLESS NOTED OTHERWISE.
D	30" DECORATIVE DRUM PENDANT, SUSPENDED FROM THREE AIRCRAFT CABLES. POWDER COAT FINISH SHALL BE PAINTED BRONZE.	SCOTT ARCHITECTURAL LIGHTING	S2346-T-L96-40K-PT	LUMETTA -CAMMAN	120 V	117 VA	9,408 lm	4000 K	80	0-10V, 1%	MOUNT BOTTOM OF SHADE AT 7'0" AFF. MODIFY OVERALL HEIGHT TO 1'0".
E	48" COVE LIGHT WITH 2" ADJUSTABLE BRACKET AND WALL WASH OPTICS.	LUMENPULSE	LOGI-RO-120-48-40K-WWR-F-WAM2-SI-DIM	APPROVED EQUAL BY COLORKINETICS	120 V	35 VA	3,824 lm	4000 K	80	0-10V, 10%	



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Drawn By: CJM  
Designer: JAM  
Reviewer: RMM  
Manager: VJM

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PROJECT NO.  
190812

LEGENDS AND GENERAL NOTES

**E001**

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Reviewer RMM

Manager VJM

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PROJECT NO.

190812

THIRD FLOOR ELECTRICAL  
DEMOLITION AND  
COMPOSITE PLANS

ED101

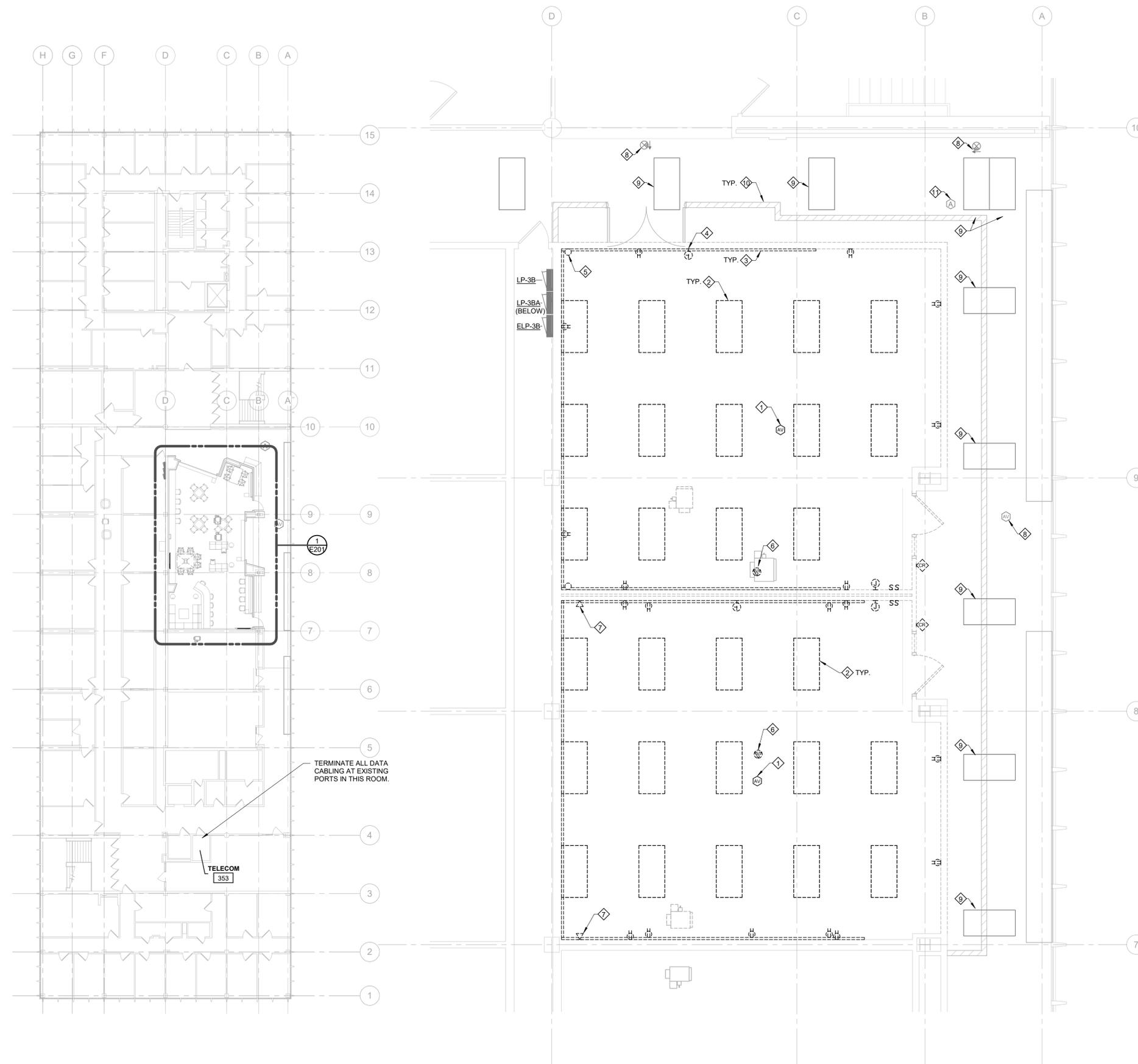
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NOTES

- REFER TO DRAWING E001 FOR THE ELECTRICAL GENERAL NOTES AND REQUIREMENTS.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE EXTENT OF WORK AND INCLUDE ALL COSTS ASSOCIATED WITH DEMOLITION IN BASE BID.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH OTHER TRADES (ARCHITECTURAL AND MECHANICAL). CONTRACTOR SHALL DISCONNECT AND REMOVE ALL CONDUIT, WIRING, AND DEVICES ASSOCIATED WITH ARCHITECTURAL AND MECHANICAL EQUIPMENT BEING REMOVED/REPLACED.
- EXPOSED CONDUIT, JUNCTION BOXES, AND DEVICES SHALL BE DISCONNECTED AND REMOVED. CONCEALED CONDUIT, JUNCTION BOXES, AND DEVICES MAY BE ABANDONED IN PLACE. ALL WIRING SHALL BE COMPLETELY REMOVED BACK TO ITS SOURCE. PROVIDE BLANK COVERS FOR ANY BOXES ABANDONED IN PLACE. WHERE POSSIBLE, CONTRACTOR MAY INSTALL NEW WIRING IN EXISTING CONDUIT.
- PROVIDE COVERPLATES FOR A COMPLETE, CODE COMPLIANT INSTALLATION.
- CIRCUITS SHOWN ARE BASED ON THE OWNER'S LIMITED DRAWINGS AND FIELD OBSERVATIONS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS AND UPDATE AS-BUILT DRAWINGS ACCORDINGLY.

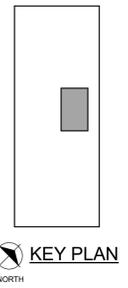
KEY NOTES

- REMOVE CEILING MOUNTED FIRE ALARM AUDIO / VISUAL DEVICES AND RE-INSTALL IN THE NEW CEILING.
- DISCONNECT AND REMOVE LIGHT FIXTURE COMPLETE. REUSE BRANCH CIRCUIT FOR NEW LIGHTING IN AREA (LP-3B).
- REMOVE FINISHED SURFACE MOUNTED RACEWAY AND ASSOCIATED CONDUIT AND WIRE. MAINTAIN CIRCUITS FOR RE-USE.
- REMOVE CLOCK SYSTEM COMPLETE, INCLUDING CONDUIT AND WIRING.
- REMOVE 3/4" C. FROM CEILING SPACE TO FINISHED SURFACE MOUNTED RACEWAY.
- REMOVE WIFI DEVICE AND RE-INSTALL IN THE NEW CEILING.
- REMOVE DATA OUTLETS SERVED FROM A WIREMOLD DROP. REMOVE WIRING COMPLETE TO IT ROOM #353. COORDINATE ALL WORK WITH WSU C & IT.
- EXISTING TO REMAIN.
- RELOCATE AND REORIENTATE LUMINAIRE, WHERE NECESSARY, TO ACCOMMODATE THE TEMPORARY CONSTRUCTION WALL. REINSTALL LUMINAIRES IN THEIR ORIGINAL POSITION, AFTER REMOVAL OF THE TEMPORARY CONSTRUCTION WALL.
- TEMPORARY CONSTRUCTION WALL.
- EXISTING TO REMAIN.



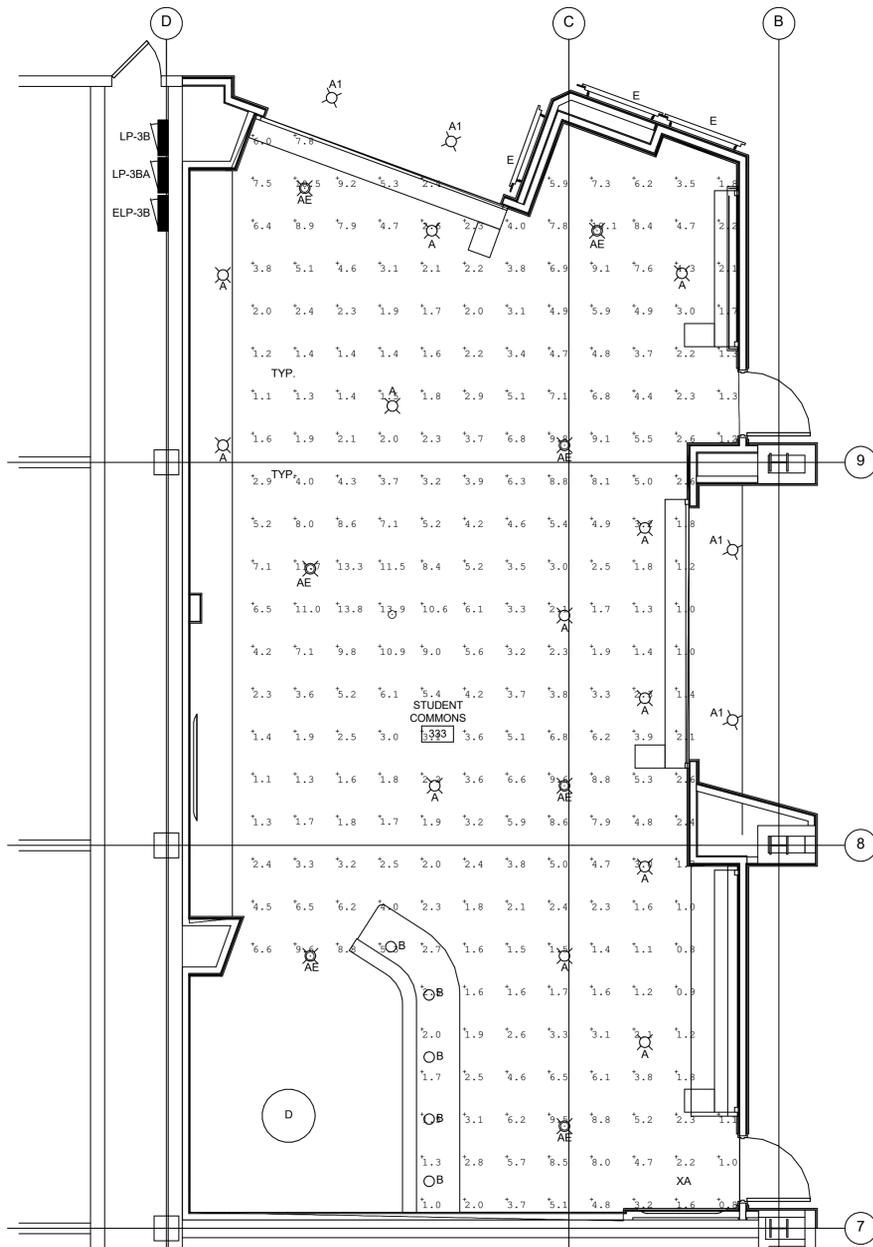
THIRD FLOOR COMPOSITE ELECTRICAL PLAN  
SCALE: 1/16" = 1'-0"  
NORTH

THIRD FLOOR ELECTRICAL DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"  
NORTH



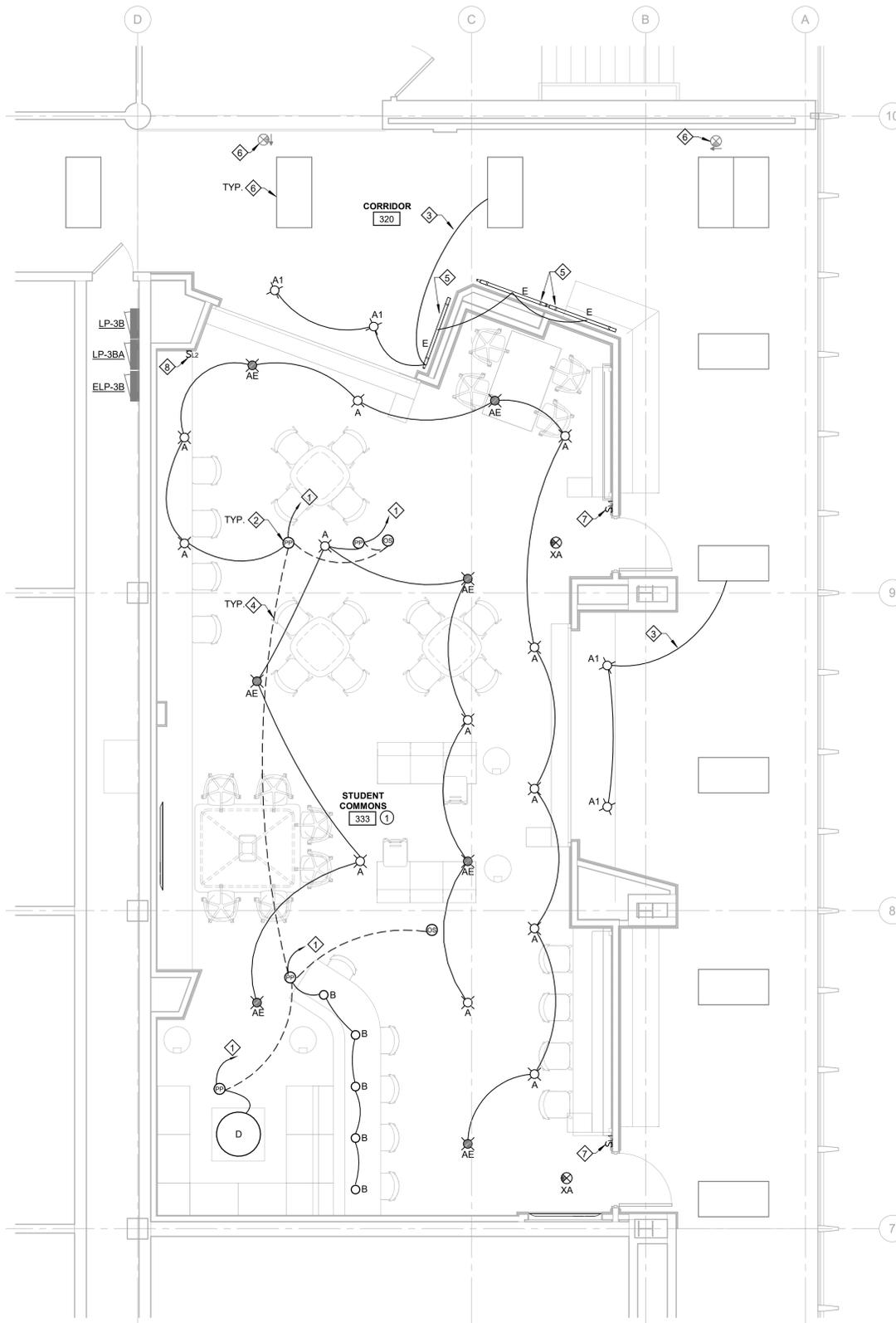
WIRING DEVICES - OCCUPANCY SENSOR AND LOW VOLTAGE LTG CONTROL DEVICE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	REMARKS
OS	DUAL TECHNOLOGY OCCUPANCY / VACANCY SENSOR - CEILING MOUNTED	ACUITY	nCMP-PDT-10-TJ B-AR	WITH LOW VOLTAGE AUXILIARY RELAY.
OP	OCCUPANCY SENSOR POWER PACK	ACUITY	nPP-16-D	
S L1	LOW VOLTAGE LIGHTING CONTROLLER - ON/OFF, DIMMING	ACUITY	nPODM-DX	STAINLESS STEEL COVER PLATE
S L2	LOW VOLTAGE LIGHTING CONTROLLER - ON/OFF, DIMMING, 4 CHANNEL	ACUITY	nPODM-4P-DX	STAINLESS STEEL COVER PLATE



Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Student Commons 333_Workplane	Illuminance	Fc	4.14	13.9	0.8	5.18	17.38

**EMERGENCY LIGHTING PHOTOMETRIC PLAN**  
SCALE: 1/4" = 1'-0"



**THIRD FLOOR LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

NOTES

- REFER TO DRAWING E001 FOR THE ELECTRICAL GENERAL NOTES AND REQUIREMENTS.
- CIRCUIT NUMBERS ARE SHOWN FOR GROUPING PURPOSES ONLY. UTILIZE CIRCUITS MADE AVAILABLE THROUGH DEMOLITION OR SPARE CIRCUIT BREAKERS. ALL BRANCH CIRCUIT WIRING SHALL BE NEW.
- EMERGENCY AND EXIT SIGNAGE SHALL HAVE INTEGRAL BATTERY INVERTER UNITS AND SHALL BE SERVED FROM THE LOCAL AREA LIGHTING CIRCUIT, AHEAD OF ANY CONTROLS.
- PROVIDE SWITCH COVERPLATE SAMPLES FOR REVIEW DURING THE SHOP DRAWING SUBMITTAL PROCESS.

KEY NOTES

- UTILIZE EXISTING CIRCUIT SERVING THE AREA, MADE AVAILABLE THROUGH DEMOLITION.
- POWER PACK TO CONTROL ROOM LIGHTING.
- TIE INTO EXISTING CORRIDOR LIGHTING AND CONTROLS.
- LOW VOLTAGE WIRING, PER THE MANUFACTURER'S RECOMMENDATION.
- LOCATE IN ARCHITECTURAL COVE. AIM FIXTURE TO GRAZE WALL / SIGN.
- EXISTING TO REMAIN. REFER TO THE DEMOLITION PLAN FOR TEMPORARY LUMINAIRE RELOCATION REQUIREMENTS.
- LOW VOLTAGE SWITCH TO CONTROL PERIMETER DOWNLIGHTS.
- LOW VOLTAGE SWITCH TO CONTROL ALL ROOM LIGHTING.

LIGHTING CONTROL FUNCTIONAL INTENT

- MANUAL ON / AUTOMATIC OFF. VIA CEILING MOUNTED OCCUPANCY SENSORS. MANUAL OFF AND DIMMER CONTROL OF (4) ZONES AS FOLLOWS: 1. PERIMETER DOWNLIGHTS; 2. INNER DOWNLIGHTS; 3. PENDANT LIGHTS OVER THE SEATING AREA; 4. DRUM LIGHTS. LOCATE A MASTER CONTROL STATION AS INDICATED AND LOW VOLTAGE SWITCHES AT EACH MANDOOR TO CONTROL PERIMETER DOWNLIGHTS ONLY. EMERGENCY LIGHTS SHALL BE ENERGIZED TO FULL OUTPUT, UPON LOSS OF NORMAL POWER, REGARDLESS OF THE STATE OF THE LIGHTING CONTROLS.



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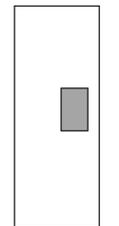
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THIRD FLOOR LIGHTING PLAN

**E101**

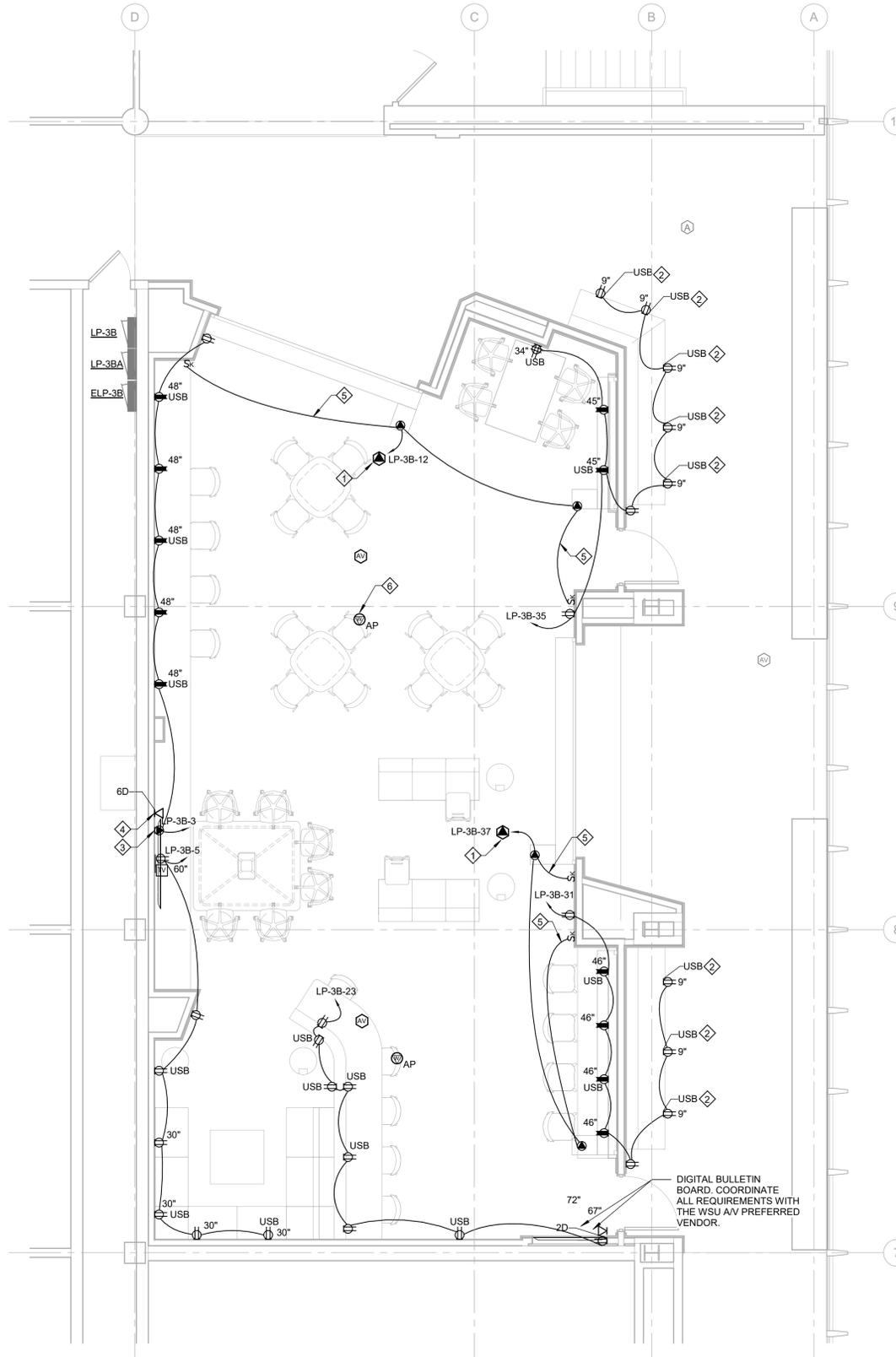
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KEY PLAN

WIRING DEVICES - MANUAL POWER SWITCH SCHEDULE				
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	REMARKS
S K	KEYED MANUAL SWITCH	PROVIDED BY FIRE SHUTTER MANUFACTURER		

WIRING DEVICES - RECEPTACLE SCHEDULE				
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	REMARKS
	DUPLEX RECEPTACLE	HUBBELL	HBL5362I	MOUNT 18" AFF, UNO
	DUPLEX RECEPTACLE (ABOVE COUNTER)	HUBBELL	HBL5362I	MOUNT HORIZONTALLY ABOVE COUNTER; 2-INCHES ABOVE BACKSPLASH, UNO
	DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS	HUBBELL	USB8300I	MOUNT 18" AFF, UNO
	DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS (ABOVE COUNTER)	HUBBELL	USB8300I	MOUNT HORIZONTALLY ABOVE COUNTER; 2-INCHES ABOVE BACKSPLASH, UNO
	DOUBLE DUPLEX RECEPTACLE WITH FOUR USB CHARGING PORTS	HUBBELL	(2) USB8300I	MOUNT AT 18" AFF, UNO
	2-GANG RECESSED WALL BOX FOR VIDEO MONITOR POWER AND DATA WITH DUPLEX RECEPTACLE	LEGRAND WIREMOLD	EFSB2	MOUNT AT 18" AFF, UNO; PROVIDE (1) HUBBELL #HBL5362I DUPLEX RECEPTACLE



**THIRD FLOOR POWER AND SYSTEMS PLAN**

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

**NOTES**

- REFER TO DRAWING E001 FOR THE ELECTRICAL GENERAL NOTES AND REQUIREMENTS.
- CIRCUIT NUMBERS ARE SHOWN FOR GROUPING PURPOSES ONLY. UTILIZE CIRCUITS MADE AVAILABLE THROUGH DEMOLITION OR SPARE CIRCUIT BREAKERS. ALL BRANCH CIRCUIT WIRING SHALL BE NEW.
- PROVIDE WIRING DEVICE COVERPLATE SAMPLES FOR REVIEW DURING THE SHOP DRAWING SUBMITTAL PROCESS.
- ALL DATA CABLING AND ASSOCIATED RACEWAYS SHALL BE INSTALLED PER WAYNE STATE STANDARDS FOR COMMUNICATIONS INFRASTRUCTURE - 29 JULY 2019.

**KEY NOTES**

- FIRE ALARM CONTROL MODULE TO RELEASE FIRE SHUTTERS UPON FIRE ALARM ACTIVATION.
- MOUNT HORIZONTALLY IN THE VERTICAL PORTION OF THE BENCH.
- POWER FEED FOR FURNITURE "D" TABLE. REFER TO THE CONNECTRAC DETAIL ON E501.
- LOW VOLTAGE FEED FOR FURNITURE "D" TABLE. REFER TO THE CONNECTRAC DETAIL ON E501.
- 4#12, #12 GRD, 3/4"C.
- RELOCATED WIRELESS ACCESS POINT.



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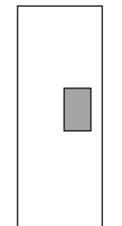
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THIRD FLOOR POWER AND SYSTEMS PLAN

**E201**

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KEY PLAN  
NORTH

PLOT INFO: 10/31/2019 9:51:32 AM C:\Work\Revit\2019\_E\_190812\_mifanders.rvt

PANEL ID		PANEL DESCRIPTION										
<b>LP-3BA</b>												
<b>Location:</b>		<b>Voltage:</b> 208/120 Wye			<b>A.I.C. Rating:</b> 10K							
<b>Supply From:</b>		<b>Phase:</b> 3			<b>Mains Type:</b> MAIN BREAKER							
<b>Mounting:</b> SURFACE		<b>Wires:</b> 4			<b>Mains Rating:</b> 100 A							
<b>Enclosure:</b> NEMA 1		<b>No. of Poles:</b> 24			<b>Bussing:</b> COPPER							
CKT	Rev. No.	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Rev. No.	CKT
1		Spare	20 A	1	0 VA / 0 VA			1	20 A	Spare		2
3		Spare	20 A	1	0 VA / 0 VA			1	20 A	Spare		4
5		Spare	20 A	1			0 VA / 0 VA	1	20 A	Spare		6
7		Spare	20 A	1	0 VA / 0 VA			1	20 A	Spare		8
9		Spare	20 A	1	0 VA / 0 VA			1	20 A	Spare		10
11		Spare	20 A	1			0 VA / 0 VA	1	20 A	Spare		12
13		Spare	20 A	1	0 VA / 0 VA			1	20 A	Spare		14
15		Spare	20 A	1	0 VA / 0 VA			1	20 A	Spare		16
17		Spare	20 A	1			0 VA / 0 VA	1	20 A	Spare		18
19		Spare	20 A	1	0 VA / 0 VA			1	20 A	Spare		20
21		Spare	20 A	1	0 VA / 0 VA			1	20 A	Spare		22
23		Spare	20 A	1			0 VA / 0 VA	1	20 A	Spare		24
25												26
27												28
29												30
<b>Total Load:</b>					0 VA	0 VA	0 VA					
<b>Total Amps:</b>					0 A	0 A	0 A					
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals								
				Total Connected Load: 0 VA								
				Total Estimated Demand: 0 VA								
				Total Connected Current: 0 A								
				Total Est. Demand Current: 0 A								
<b>Notes:</b>												

PANEL ID		PANEL DESCRIPTION										
<b>LP-3B</b>		<b>EXISTING</b>										
<b>Location:</b>		<b>Voltage:</b> 208/120 Wye			<b>A.I.C. Rating:</b> 10K							
<b>Supply From:</b>		<b>Phase:</b> 3			<b>Mains Type:</b> MAIN LUGS ONLY							
<b>Mounting:</b> SURFACE		<b>Wires:</b> 4			<b>Mains Rating:</b> 200 A							
<b>Enclosure:</b> NEMA 1		<b>No. of Poles:</b> 84			<b>Bussing:</b> COPPER							
CKT	Rev. No.	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Rev. No.	CKT
1		EXISTING C. RM 328ADUCT SHAFT	20 A	1	800 VA / 800 VA			1	20 A	EXISTING SEM RM 321 LIGHTING		2
3		RECEPTACLE	20 A	1		1580 VA / 800 VA		1	20 A	EXISTING SEM RM 321 LIGHTING		4
5		RECEPTACLE/TV	20 A	1			1260 VA / 800 VA	1	20 A	EXISTING SEM RM 321 LIGHTING		6
7		EXISTING LOBBY	20 A	1	800 VA / 0 VA			1	20 A	LIGHTING		8
9		EXISTING CORR. 318	20 A	1		800 VA / 0 VA		1	20 A	LIGHTING		10
11		EXISTING LOBBY	20 A	1			800 VA / 2880 VA	1	20 A	FIRE SHUTTERS		12
13		EXISTING CORR. 320	20 A	1	800 VA / 800 VA			1	20 A	EXISTING SEM RM 322		14
15		EXISTING LOBBY	20 A	1		800 VA / 800 VA		1	20 A	EXISTING SEM RM 324		16
17		EXISTING SEM RM 332,324,326	20 A	1			800 VA / 800 VA	1	20 A	EXISTING SEM RM 326		18
19		EXISTING C. RM 325	20 A	1	800 VA / 800 VA			1	20 A	EXISTING RM 322 HALLWAY...		20
21		EXISTING C. RM 325	20 A	1		800 VA / 0 VA		1	20 A	Spare		22
23		RECEPT/DIGITAL BULL BOARD	20 A	1			1440 VA / 800 VA	1	20 A	EXISTING CORR LIGHTING		24
25		EXISTING SEM RM 323	20 A	1	800 VA / 800 VA			1	20 A	EXISTING CORR LIGHTING		26
27		EXISTING SEM RM 323	20 A	1		800 VA / 800 VA		1	20 A	EXISTING CORR LIGHTING		28
29		EXISTING C. RM 325	20 A	1			800 VA / 800 VA	1	20 A	EXISTING RM 376 OFFICE		30
31		RECEPT	20 A	1	1620 VA / 0 VA			1	20 A	Spare		32
33		Spare	20 A	1		0 VA / 800 VA		1	20 A	EXISTING 380 WEST		34
35		RECEPT	20 A	1			1980 VA / 800 VA	1	20 A	EXISTING 380 WEST		36
37		FIRE SHUTTERS	20 A	1	0 VA / 0 VA							38
39												40
41												42
<b>Total Load:</b>					8820 VA	7980 VA	13960 VA					
<b>Total Amps:</b>					75 A	67 A	117 A					
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Lighting	4800 VA	125.00%	6000 VA	Total Connected Load: 30760 VA								
RECEPT	21600 VA	73.15%	15800 VA	Total Estimated Demand: 26160 VA								
Equip.	4360 VA	100.00%	4360 VA	Total Connected Current: 85 A								
				Total Est. Demand Current: 73 A								
<b>Notes:</b>												

**NOTES**

1. PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES THAT INDICATE ACTUAL CIRCUITS UTILIZED UPON COMPLETION OF CONSTRUCTION.



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5557 Cass Ave, Detroit, MI 48202  
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WSU PROJECT NUMBER: 048-291367

**REVISIONS**

10/31/2019 Permits and Bids  
Drawn By JAM  
Designer JAM  
Reviewer RMM  
Manager VJM

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**190812**

PANEL SCHEDULES

**E401**  
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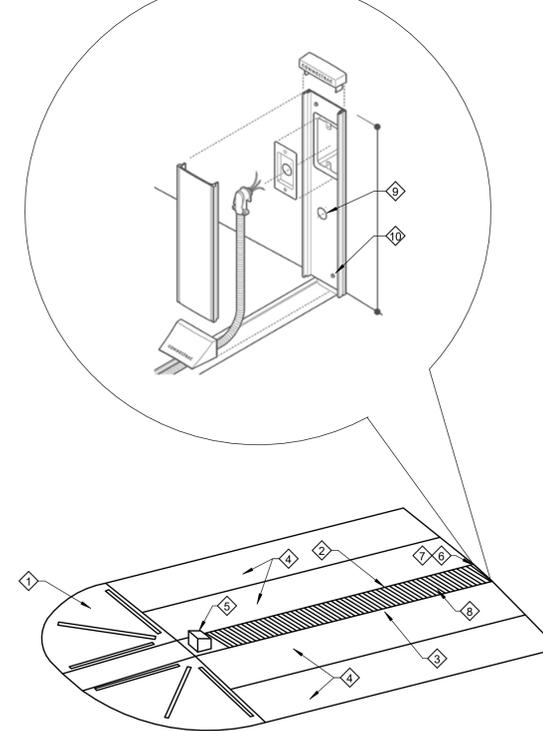
ELECTRICAL DETAILS

E501

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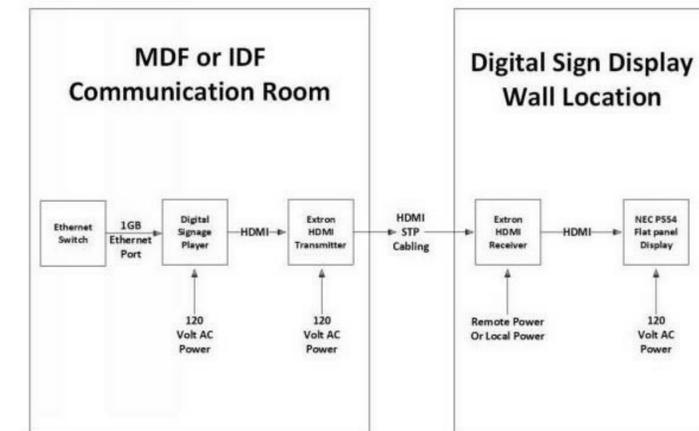
KEY NOTES

- 1 END TRANSITION RAMP WIREWAY.
- 2 TRACK WIREWAY - LENGTHS SPECIFIC TO EACH ROOM AND FURNITURE LAYOUT. COORDINATE LENGTHS WITH FURNITURE LAYOUT.
- 3 TOP CAP - LENGTHS SPECIFIC TO EACH ROOM AND FURNITURE LAYOUT. COORDINATE LENGTHS WITH FURNITURE LAYOUT.
- 4 SIDE TRANSITION RAMPS.
- 5 PS-I-096 INFEEED WITH DUPLEX OUTLET AND LOW VOLTAGE KEYSTONES.
- 6 20" WALL CHANNEL WITH CAP. #AC-WC-020-AL. JUNCTION BOX IN WALL FOR CONNECTION TO WIREWAY AND POWER ENTRY CABLE.
- 7 POWER ENTRY CABLE - COORDINATE EXACT LENGTH OF ENTRY CABLE WITH FURNITURE LAYOUT.
- 8 QUICK-CONNECT JUMPER CABLE - LENGTHS SPECIFIC TO THE ROOM AND RECEPTACLE LAYOUT. COORDINATE EXACT LENGTHS WITH FURNITURE LAYOUT.
- 9 PROVIDE HOLE AND 1-1/4" CONDUIT UP TO TV BOX FOR HDMI CABLE.
- 10 PROVIDE HOLE AND 3/4" CONDUIT FOR CAT6 CABLE.



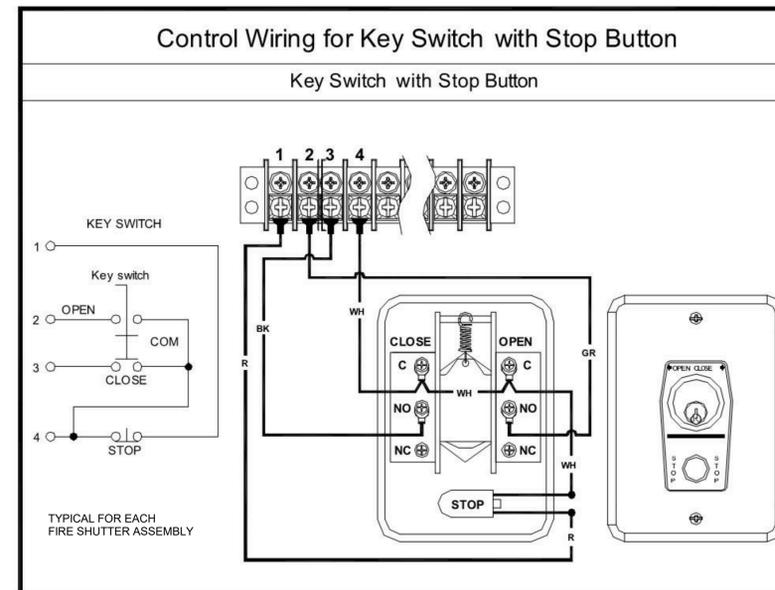
TYPICAL CONNECTRAC WIREWAY DIAGRAM

NO SCALE



DIGITAL SIGNAGE SYSTEM BLOCK DIAGRAM

SCALE: NOT TO SCALE



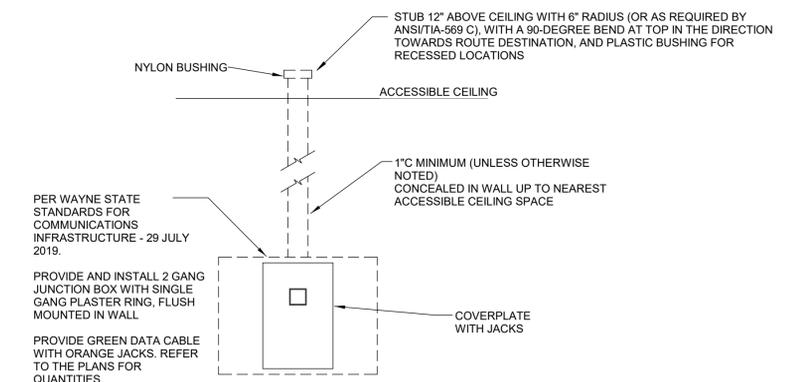
Control Wiring for Key Switch with Stop Button

Key Switch with Stop Button

TYPICAL FOR EACH FIRE SHUTTER ASSEMBLY

FIRE SHUTTER WIRING DIAGRAM

SCALE: 12" = 1'-0"



PER WAYNE STATE STANDARDS FOR COMMUNICATIONS INFRASTRUCTURE - 29 JULY 2019.

PROVIDE AND INSTALL 2 GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING, FLUSH MOUNTED IN WALL

PROVIDE GREEN DATA CABLE WITH ORANGE JACKS. REFER TO THE PLANS FOR QUANTITIES.

TYPICAL DATA OUTLET ROUGH-IN

SCALE: 12" = 1'-0"