

ELECTRICAL PROGRAM RELOCATION

Ogden Weber Technical College

DFCM PROJECT NUMBER: 22400240



State of Utah - Department of Administrative Services
 DIVISION OF FACILITIES CONSTRUCTION
 AND MANAGEMENT
 4110 State Office Building / Salt Lake City, Utah 84414/801-538-3018



Consultant

ELECTRICAL PROGRAM RELOCATION
 Ogden Weber Technical College
 200 N. Washington Blvd.
 Ogden, Utah 84404

Project Name

Issued		
No.	Date	Description

Revision		
No.	Date	Description

DFCM Project No. 22400240
 SAA Project No. 2021-57
 Drawing Title

COVER SHEET

Sheet Number

GI001

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OGDEN WEBER TECHNICAL COLLEGE
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 Ogden, UT 84404
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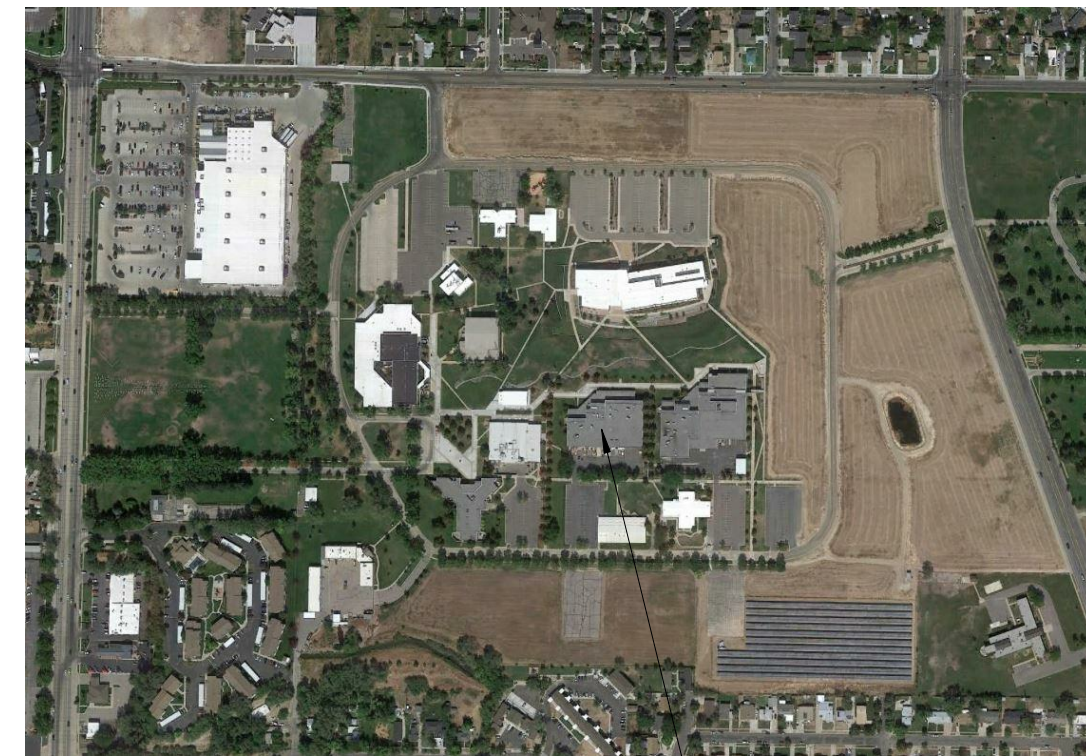
SPECIAL INSPECTIONS (2018 IBC)

- 051200** METALS- SEE REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS PERTAINING TO SPECIAL INSPECTION FOR STEEL COMPONENTS. INSPECTION IS BY THE OWNERS AGENT.
- 054200** COLD-FORMED METAL FRAMING SEISMIC RESISTANCE SPECIAL INSPECTION SHALL BE PROVIDED PER IBC SECTION 1705.12.3 AND WIND RESISTANCE PER SECTION 1705.11.2. INSPECTION IS BY OWNERS AGENT.
- 092900** GYPSUM BOARD- COLD WEATHER PLACEMENT REQUIREMENTS AS LISTED IN THIS SPECIFICATION SECTION. INSPECTION IS BY THE OWNERS AGENT.
- 095100** ACOUSTICAL CEILINGS- SPECIAL INSPECTION REQUIREMENTS AS LISTED IN THIS SPECIFICATION SECTION. INSPECTION IS BY THE OWNERS AGENT.
- 220548** MECHANICAL SEISMIC RESTRAINTS- AS REQUIRED BY IBC SECTION 1705.12.6 "SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE". INSPECTION IS BY THE OWNERS AGENT.
- 237400** ROOFTOP AIR CONDITIONERS- AS REQUIRED BY IBC SECTION 1705.12.6.5 "MECHANICAL AND ELECTRICAL COMPONENTS". SPECIFICALLY APPLYING TO ROOF MOUNTED FANS, ROOFTOP UNITS AND AIR HANDLING UNITS; INSPECTION IS BY THE OWNERS AGENT.
- 260000** ELECTRICAL PER THE REQUIREMENTS OF ASCE 7, THE BUILDING OWNER WILL EMPLOY A SPECIAL INSPECTOR(S) TO OBSERVE THE CONSTRUCTION OF ALL DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN. PERIODIC SPECIAL INSPECTION DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS, INCLUDING BUT NOT LIMITED TO:
 - A. EMERGENCY LIGHTING, WITH ASSOCIATED CONDUIT, WIRING AND DISTRIBUTION SYSTEM.
 - B. FIRE ALARM SYSTEM AND DEVICES, WITH ASSOCIATED CONDUIT, WIRING AND DISTRIBUTION SYSTEM.

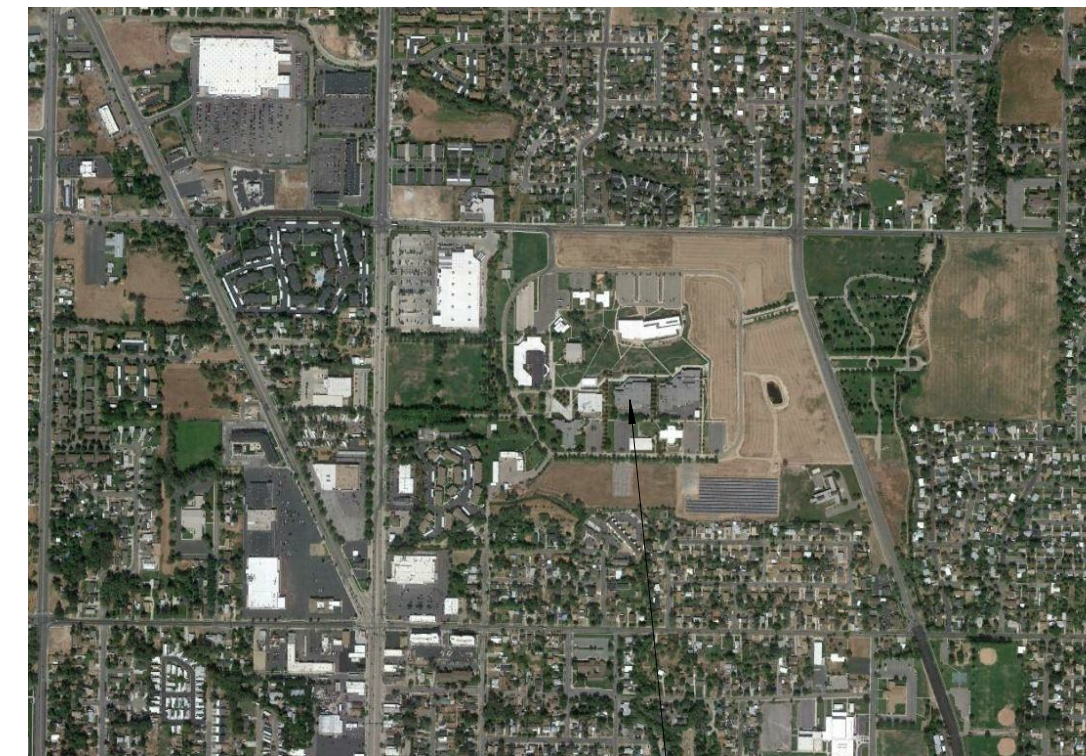
DEFERRED SUBMITTALS

CONTRACTOR IS RESPONSIBLE TO SUBMIT DEFERRED SUBMITTALS IN ACCORDANCE WITH IBC 107.3.4.1. AS PART OF THE SUBMITTAL PROCESS, THE CONTRACTOR IS TO SUBMIT ALL ICC ERS REPORTS FOR ITEMS NOTED. ALL SUBMITTALS SHALL BE SUPPLIED TO THE BUILDING OFFICIAL FOR REVIEW WITH AN ACCOMPANIED LETTER FROM THE ARCHITECT STATING THAT THE DRAWINGS ARE IN CONFORMANCE WITH THE DESIGN. WORK RELATED TO DEFERRED SUBMITTALS IS NOT TO COMMENCE UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL.

- SUSPENDED CEILING SYSTEMS
- MECHANICAL SEISMIC RESTRAINTS
- FIRE PROTECTION PER 107.2.2 (SUBMIT TO THE STATE FIRE MARSHAL FOR APPROVAL)
- FIRE ALARM SYSTEMS (SUBMIT TO THE STATE FIRE MARSHAL FOR APPROVAL)
- FIRE MONITORING SYSTEMS (SUBMIT TO THE STATE FIRE MARSHAL FOR APPROVAL)
- ELECTRICAL SEISMIC RESTRAINTS



CLOSER MAP Construction Technology Building

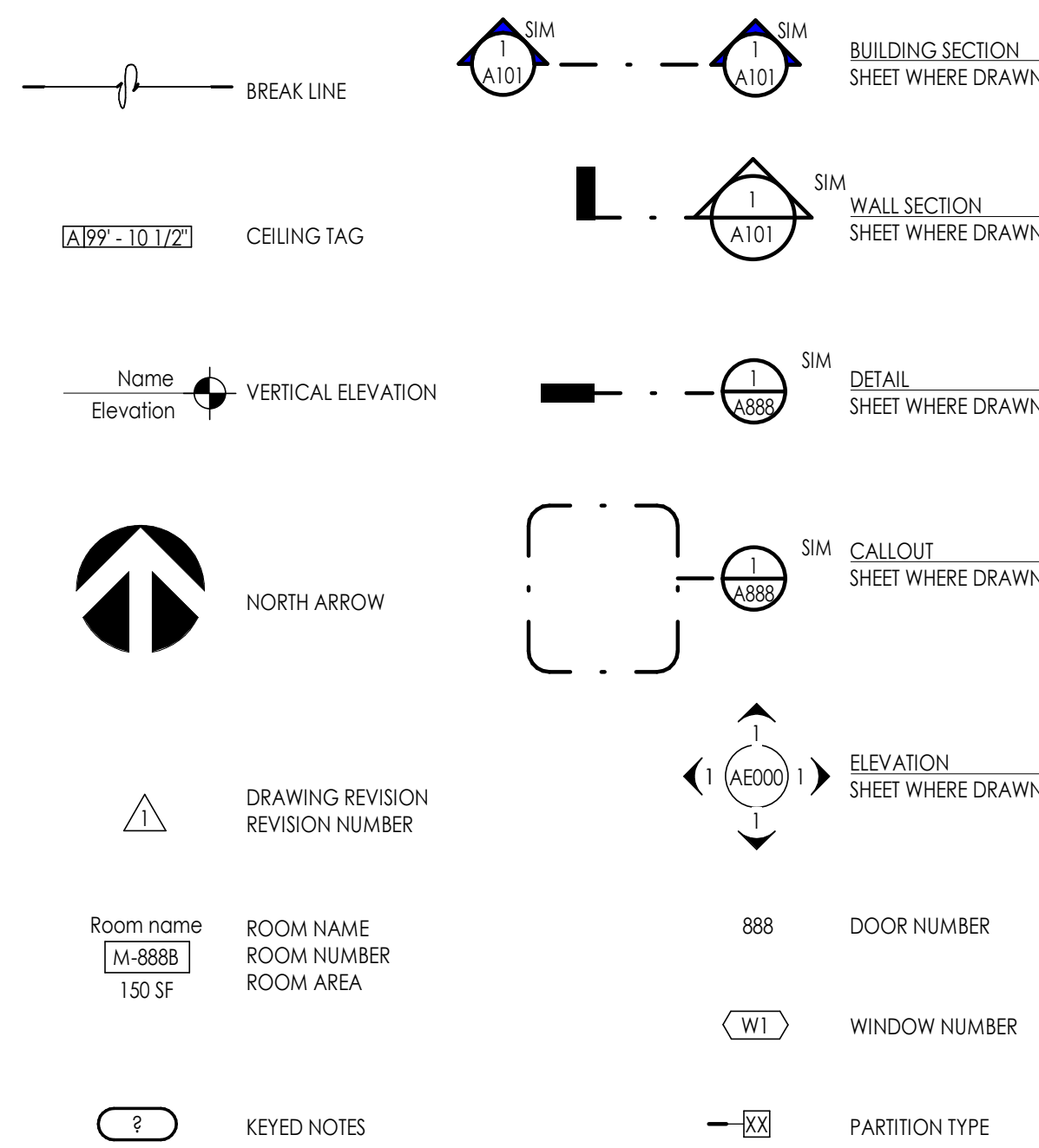


OVERALL MAP 200 N. Washington Blvd. Ogden, UT 84404

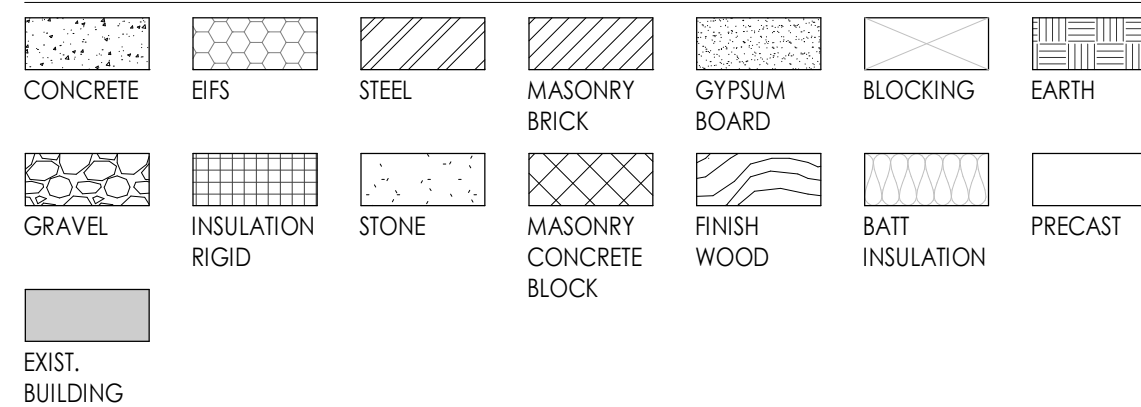
Vicinity Map

N.T.S.

GENERAL SYMBOLS



MATERIALS



ABBREVIATIONS

#	NUMBER	DWGS.	DRAWINGS	I.D.	INSIDE DIAMETER	REINF.	REINFORCED
@	AT	EA.	EACH	I.F.	INSIDE FACE	REQ'D	REQUIRED
C	CENTER LINE	E.F.	EACH FACE	IN.	INCHES	RM.	ROOM
Ø	DIAMETER	E.J.	EXPANSION JOINT	INFO.	INFORMATION	R.O.	ROUGH OPENING
L	ANGLE	EL.	ELEVATION	INSUL.	INSULATION	SCHED.	SCHEDULE
A.B.	ANCHOR BOLT	ELEV.	ELEVATION	LAV.	LAVATORY	SHR.	SHOWER
ABV.	ABOVE	EQ.	EQUAL	LGT.	LIGHT	SHT.	SHEET
ADJ.	ADJUSTABLE	E.S.	EACH SIDE	LT. WT.	LIGHT WEIGHT	SIM.	SIMILAR
A.F.F.	ABOVE FINISH FLOOR	E.W.	EACH WAY	MAINT.	MAINTENANCE	SPEC.	SPECIFICATION
ALUM.	ALUMINUM	EXIST.	EXISTING	MANUF.	MANUFACTURER	STC	SOUND TRANSMISSION COEFFICIENT
APPROX.	APPROXIMATE	EXPAN.	EXPANSION	MAX.	MAXIMUM	STD.	STANDARD
ARCH.	ARCHITECTURAL	EXT.	EXTERIOR	MAT.	MATERIAL	STIFF.	STIFFENER
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS	F.D.	FLOOR DRAIN	M.C.J.	MASONRY CONTROL JOINT	STR.	STRUCTURAL
D.B.A.	DEFORMED BAR ANCHOR	FDN.	FOUNDATION	MFR.	MANUFACTURER	SUPER.	SUPERVISOR
BD.	BOARD	F.E.C.	FIRE EXTINGUISHER CABINET	MIN.	MINIMUM	SUSP.	SUSPENDED
BLDG.	BUILDING	F.F.	FINISH FLOOR	MISC.	MISCELLANEOUS	THRU	THROUGH
B.M.	BENCHMARK	FIN.	FINISH	M.O.	MASONRY OPENING	T.O.	TOP OF
B.O.	BOTTOM OF	FLR.	FLOOR	MTL.	METAL	T.O.A.	TOP OF ASPHALT
BOT.	BOTTOM	FT.	FEET	N.I.C.	NOT IN CONTRACT	T.O.C.	TOP OF CURB
B.P.	BASE PLATE	FIG.	FOOTING	NO.	NUMBER	T.O.P.	TOP OF PAVING
BRG.	BEARING	G.A.	GAGE/GAUGE	N.T.S.	NOT TO SCALE	T.O.F.	TOP OF FOOTING
BTWN.	BETWEEN	GAL.	GALLON	O.C.	ON CENTER	T.O.S.	TOP OF SLAB OR SIDEWALK
CER.	CERAMIC	GALV.	GALVANIZED	O.D.	OUTSIDE DIAMETER	T.O.W.	TOP OF WALL
C.J.	CONSTRUCTION JOINT	GND.	GROUND	O.F.	OUTSIDE FACE	TYP.	TYPICAL
CLG.	CEILING	GWB.	GYPSUM WALL BOARD	O.H.	OVERHEAD	U.N.O.	UNLESS NOTED OTHERWISE
CLR.	CLEAR	GYP. BD.	GYPSUM WALL BOARD	OHD	OVERHEAD DOOR	VCT	VINYL COMPOSITION TILE
CMU	CONCRETE MASONRY UNIT	H.W.	HARDWARE	OP.	OPPOSITE	VERT.	VERTICAL
COL.	COLUMN	HDW.	HARDWARE	PART.	PARTITION	VEST.	VESTIBULE
CONC.	CONCRETE	H.M.	HOLLOW METAL	PL.	PLATE	VNR.	VENEER
CONT.	CONTINUOUS	HORIZ.	HORIZONTAL	PNTD.	PAINTED	W/	WITH
CONST.	CONSTRUCTION	HR.	HOUR	PROT.	PROTECTION	WD.	WOOD
COORD.	COORDINATE	H.S.A.	HEADED STUD ANCHOR	P.S.F.	POUNDS PER SQUARE FOOT	W.W.F.	WELDED WIRE FABRIC
DBL.	DOUBLE	HT.	HEIGHT	P.S.J.	POUNDS PER SQUARE INCH		
DEPT	DEPARTMENT	HVAC	HEATING/VENTILATION/AIR CONDITIONING	QTY.	QUANTITY		
DIA.	DIAMETER	HYD	HYDRANT	R.D.	ROOF DRAIN		
DTL.	DETAIL			RAD.	RADIUS		

DRAWING INDEX

GENERAL INFORMATION

- G1001 COVER SHEET
- G1002 GENERAL INFORMATION
- G1003 CODE SUMMARY
- G1004 ACCESSIBILITY DETAILS

ARCHITECTURAL

- AE101 MAIN FLOOR DEMOLITION PLAN
- AE102 MAIN FLOOR PLAN
- AE121 ROOF PLAN
- AE141 REFLECTED CEILING PLAN
- AE301 BUILDING SECTIONS
- AE441 INTERIOR ELEVATIONS
- AE442 INTERIOR ELEVATIONS
- AE443 INTERIOR ELEVATIONS
- AE444 INTERIOR ELEVATIONS
- AE445 INTERIOR ELEVATIONS
- AE541 CEILING DETAILS & PLAN DETAILS
- AE601 DOOR SCHEDULE, FRAME TYPES, & OPENING DETAILS
- AE661 FINISH SCHEDULE & PARTITION TYPES
- AE662 ALTERNATE FINISH PLAN & SCHEDULE

STRUCTURAL

- S001 STRUCTURAL NOTES
- S092 SCHEDULES
- S101 FRAMING PLAN
- S201 DETAILS
- S202 DETAILS

MECHANICAL

- M-000 MECHANICAL SCHEDULES
- M-100 HVAC REMODEL PLAN
- M-500 MECHANICAL DETAILS
- M-501 MECHANICAL DETAILS
- M-700 MECHANICAL CONTROLS
- MPD100 HVAC / PLUMBING DEMOLITION PLAN

PLUMBING

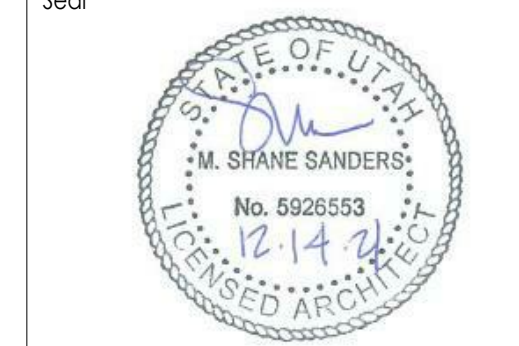
- P-000 PLUMBING SCHEDULES, SYMBOL LGND. & DETAILS
- P-100 PLUMBING REMODEL PLAN

ELECTRICAL

- EE001 ABBREVIATIONS, G.P.N., LEGEND & SHEET INDEX
- ED101 ELECTRICAL DEMOLITION PLAN
- EL201 LIGHTING PLAN
- EL501 LIGHTING DETAILS
- EP301 POWER PLAN
- EP501 ELECTRICAL DETAILS
- EP602 ELECTRICAL SCHEDULES
- ET401 ELECTRONIC SYSTEMS PLAN

MISCELLANEOUS GENERAL NOTES

1. THE PROJECT MANUAL, UNDER SEPARATE COVER, IS AN INTEGRAL PART OF THESE CONSTRUCTION DRAWINGS.
2. PLANS, SECTIONS, ELEVATIONS, DETAILS AND DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATIONS OCCURRING THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY NOTED ON THE DRAWINGS.
3. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
4. CONTRACTORS ARE RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE DEFICIENCIES APPROVAL.
5. KEEP SITE CLEAN AND CLEAR OF DEBRIS AND IN ORDERLY CONDITION THAT DOES NOT DETRACT FROM THE SURROUNDING SITE AND REPAIR ANY DAMAGE CAUSED BY WORK OF THE CONTRACT.
6. INSTALL SEALANT AT EXTERIOR SIDE OF ALL JOINTS, SEAMS, CONNECTIONS OR OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION EXCEPT AS NOTED OTHERWISE. SEALANT COLOR TO MATCH ADJACENT SURFACE. COLOR REQUIRES ARCHITECTS APPROVAL.
7. ALL SPECIAL ACCESSIBLE FACILITIES SHALL BE IDENTIFIED WITH APPROVED SIGNAGE.
8. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING A WEATHER TIGHT BUILDING, DETAILS AND OMISSIONS TO DRAWINGS NOTWITHSTANDING. ALL DRAWING CONFLICTS WHICH MAY NOT ALLOW A WEATHER TIGHT CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR SHALL SUBMIT SPECIFIC DISCREPANCIES FOR ARCHITECT REVIEW.
10. PROVIDE FULL METAL BACKING PLATE (16 GAUGE X 6" HIGH SECURED TO 3 STUDS MIN.) OR WOOD BLOCKING AS REQUIRED TO SECURELY ANCHOR ALL WALL MOUNTED EQUIPMENT (CABINETS, TOILET ROOM ACCESSORIES, HARDWARE, ETC.). BLOCKING SHALL PROVIDE A RIGID CONNECTION CAPABLE OF SUPPORTING DESIGN LOADS. PROVIDE A 16 GAUGE X 6" STL. STUD/TRACK SECURED TO 2 STUDS TO SECURELY SUPPORT ALL WALL STOPS (DOOR BUMPER).
11. COORDINATE WITH ALL TRADES, SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT, EQUIPMENT PADS OR BASES, AS WELL AS ELECTRIC POWER, WATER, AND DRAIN INSTALLATIONS, BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS FOR PROPER PLACEMENT OF ALL TRADES' WORK. ANY CONCERNS, SPACE LIMITATIONS OR STRUCTURAL CONFLICTS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. A REASONABLE RESPONSE TIME SHALL BE ALLOWED AS NOTED IN THE SPECIFICATIONS.
12. ALL FLOOR OR WALL OPENINGS REQUIRED FOR PIPES, DUCTS, CONDUITS, ETC. SHALL BE SEALED IN AN APPROVED MANNER.
13. FIRE SPRINKLER DESIGN TO BE DONE BY A CERTIFIED SUB-CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT. SUBMITTAL TO THE ARCHITECT ALSO INDICATES THAT THE CONTRACTOR HAS REVIEWED AND COORDINATED FIRE-SPRINKLER PIPING LOCATIONS WITH ALL TRADES.
14. ROOMS ENCLOSED WITH RATED WALLS REQUIRE RATED DOORS. ANY DUCTS PASSING THROUGH WALLS REQUIRE FIRE DAMPERS AND OR FIRE/SMOKE DAMPERS. ANY CONDUIT OR PIPING REQUIRES RATED SEALANT AT JOINTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND LOCATE ELECTRICAL DATA AND PHONE RECEPTACLES, SWITCHES, ETC. TO AVOID CASEWORK DOORS, ETC.
16. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF THE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. THE DIMENSIONS OF THE BUILDING, THE TYPE OF STRUCTURAL, MECHANICAL, ELECTRICAL AND UTILITY SYSTEMS AND MAJOR ARCHITECTURAL ELEMENTS OF CONSTRUCTION AS "SCOPE" DOCUMENTS.
17. THE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE WORK. CONTRACTS SHALL BE LET ON THE BASIS OF SUCH DOCUMENTS, WITH THE UNDERSTANDING THAT THE CONTRACTOR IS TO FURNISH ALL ITEMS REQUIRED FOR PROPER COMPLETION OF THE WORK WITH OUT ADJUSTMENT TO CONTRACT PRICE. IT IS INTENDED THAT THE WORK TO BE OF SOUND AND QUALITY CONSTRUCTION AND THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INCLUSION OF ADEQUATE AMOUNTS TO COVER INSTALLATION OF ALL ITEMS INDICATED, DESCRIBED OR REASONABLY IMPLIED.



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Project Name

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1	01.13.2022	PLAN REVIEW COMMENTS
2	02.27.2022	OWNER UPDATES

DFCM Project No.	22400240
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GENERAL INFORMATION

Sheet Number
G1002

CODE ANALYSIS

APPLICABLE CODES

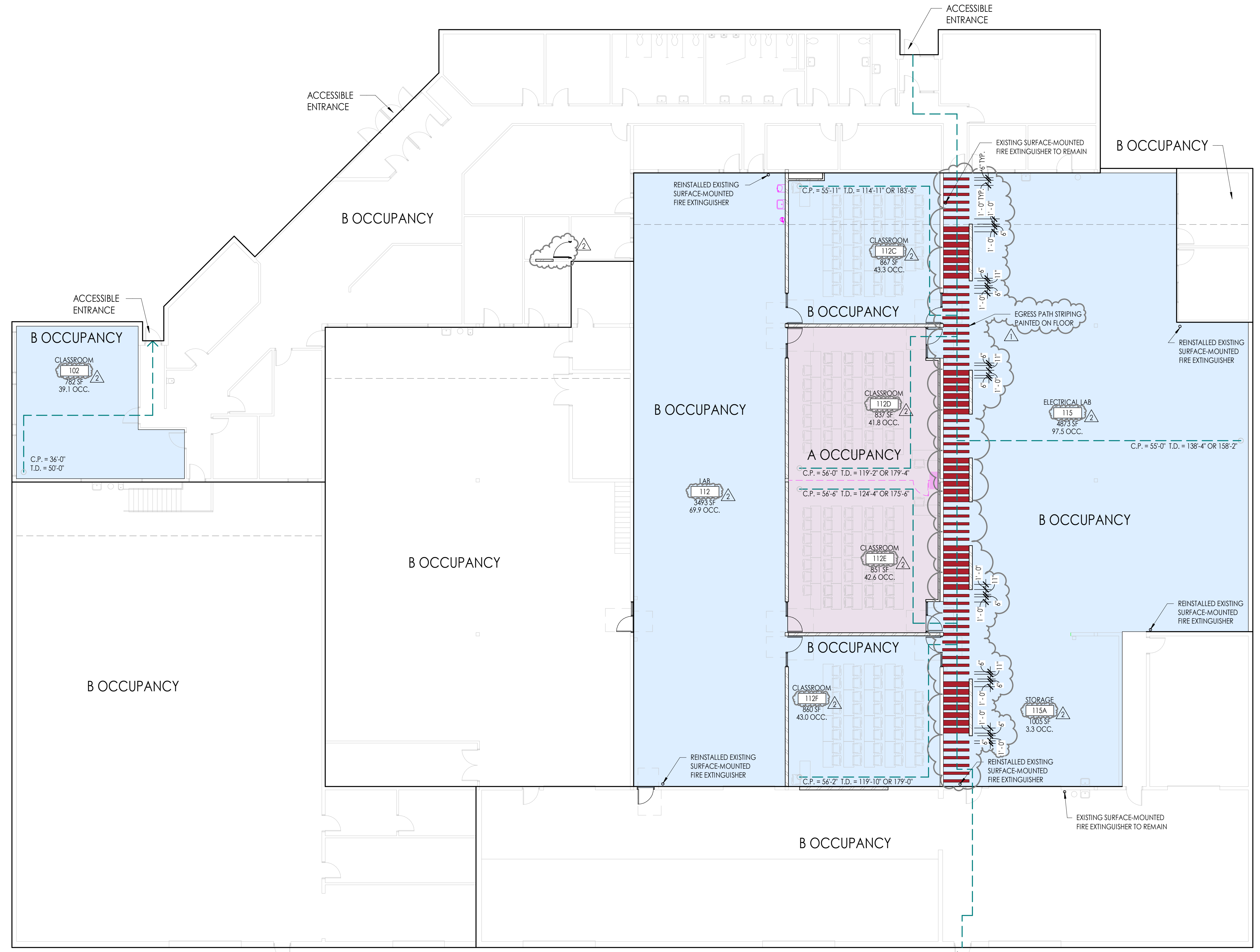
Code	Year	Code	Year
International Building Code	2018	National Electrical Code	2020
International Mechanical Code	2018	Uniform Code for Building Construction	2018
International Fuel Gas Code	2018	Building Conservation	2018
International Plumbing Code	2018	ADA Accessibility	2010
International Fire Code	2018	Guidelines	2009 ANSI A117.1
International Energy Conservation Code	2018		2010 ADA standards for accessible design

- A. Occupancy and Group: A B
- Change in Use: Yes No X Mixed Occupancy: Yes X No
Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A
- B. Seismic Design Category: D Design Wind Speed: 90 mph
Occupancy Category (Table 1604.5): II
- C. Type of Construction (circle one):
I II III IV V
A B A B A B HT A B
- D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: N/A South: N/A East: N/A West: N/A
- E. Mixed Occupancies: N/A Nonseparated Uses: N/A
- F. Sprinklers: EXISTING
Required: - Provided: existing
Type of Sprinkler System (IBC 903.3.1) existing
- G. Number of Stories: 1 (existing) Building Height: approx. 30' (existing)
- H. Actual Area:
Current Building Area (square feet): 38,515
Total Renovation Area (square feet): 16,581
Renovation Group A Area (square feet): 1,691
Renovation Group B Area (square feet): 14,890
Total Building Area (square feet): 38,515
- I. Tabular Area: (table 503) Type VB: (S) = Existing Building No Area Modification
- J. Area Modifications: Mixed Occupancy, One Story 506.2.1
a) $A_u = A_1 + (NS \times I_1)$ $I_1 = \left[\frac{F}{F_p} - 0.25 \right] \frac{W}{30}$
b) Sum of the Ratio Calculations for Mixed Occupancies: (N/A - Single Occupancy)
Actual Area ≤ 1 Allowable Area or ≤ 1
c) Total Allowable Area for:
1) One Story: existing
2) Two Story: N/A
3) Three Story: N/A
d) Unlimited Area Building: Yes No X Code Section: 507
- K. Fire Resistance Rating Requirements for Building Elements (hours).
- | Element | Hours | Assembly Listing | Element | Hours | Assembly Listing |
|----------------------------|-------|------------------|----------------------------|-------|------------------|
| Exterior Bearing Walls | 0 | (Existing) | Floors - Ceiling Floors | 0 | (Existing) |
| Interior Bearing Walls | 0 | (Existing) | Roofs - Ceiling Roofs | 0 | (Existing) |
| Exterior Non-Bearing Walls | 0 | (Existing) | Exterior Doors and Windows | 0 | (Existing) |
| Structural Frame | 0 | (Existing) | Shaft Enclosures | 1 | (Existing) |
| Partitions - Permanent | 0 | (Existing) | Fire Walls | N/A | |
| Fire Barriers | N/A | | Fire Partitions | N/A | |
| | | | Smoke Partitions | N/A | |
- L. Design Occupant Load (renovation): 381
Exit Width Required Level One: existing Exit Width Provided: existing
- M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) existing (f) existing Provided (m) existing (f) existing
b) Urinals - Required (m) existing (f) N/A Provided (m) existing (f) N/A
c) Lavatories - Required (m) existing (f) existing Provided (m) existing (f) existing
d) Bath Tubs or Showers: N/A
e) Drinking Fountains: existing Service Sinks: existing

FOOTNOTES:
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts through 32 ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

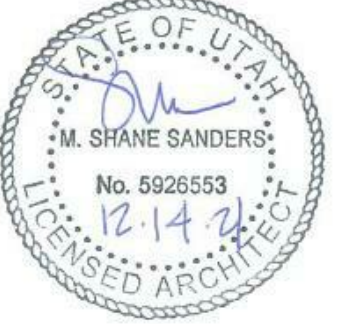
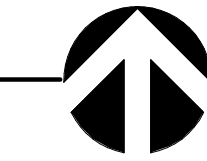
OCCUPANCY LOAD CALCULATION PER 2018 IBC TABLE 1004.1.1

NUMBER	NAME	AREA	S.F. PER PERSON	# OF OCCUPANTS
A OCCUPANCY				
112D	CLASSROOM	837 SF	20	41.8
112E	CLASSROOM	851 SF	20	42.6
B OCCUPANCY				
102	CLASSROOM	782 SF	20	39.1
112	LAB	3493 SF	50	69.9
112C	CLASSROOM	867 SF	20	43.3
112F	CLASSROOM	860 SF	20	43.0
115	ELECTRICAL LAB	4873 SF	50	97.5
115A	STORAGE	1005 SF	300	3.3
				296.1



LEVEL 1 CODE PLAN

3/32" = 1'-0"



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CODE SUMMARY

Sheet Number

GI003

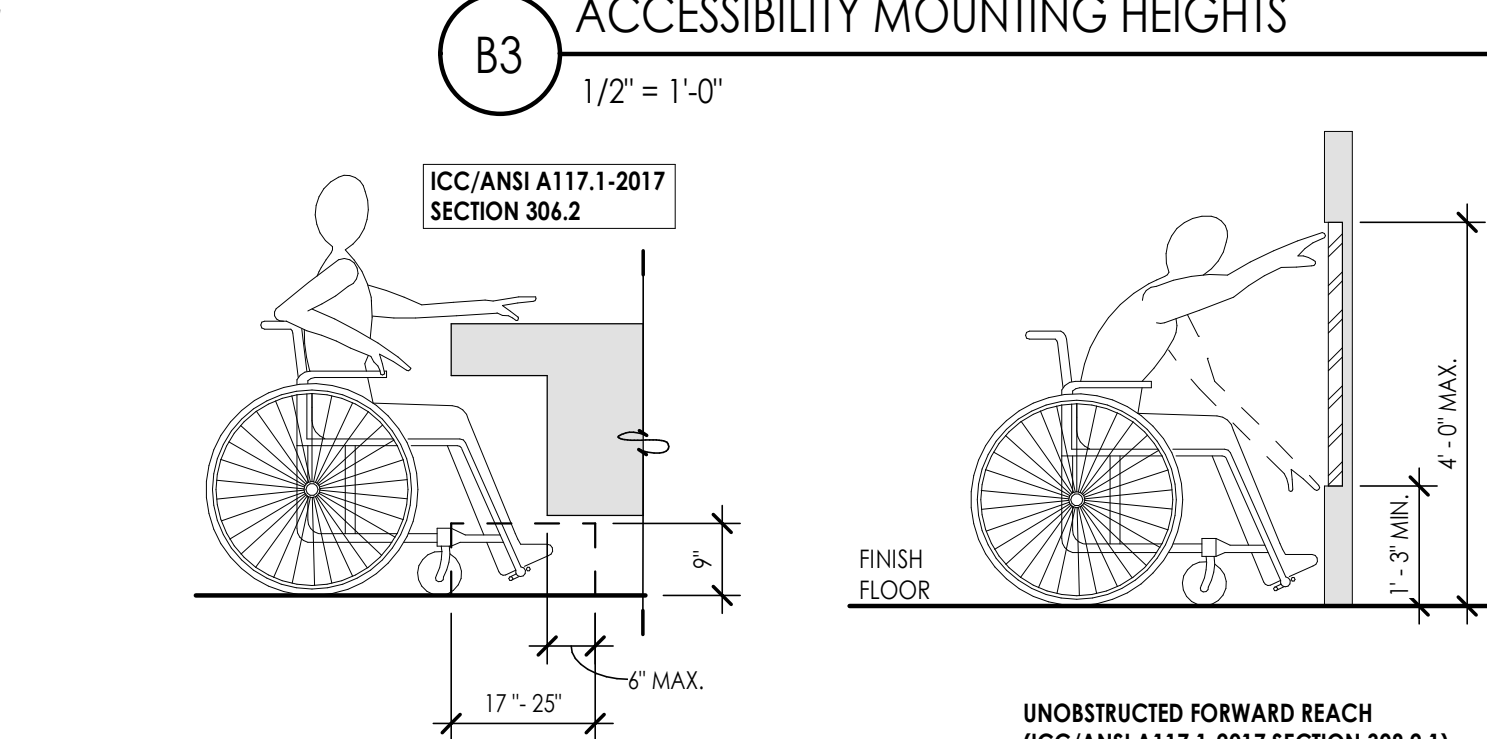
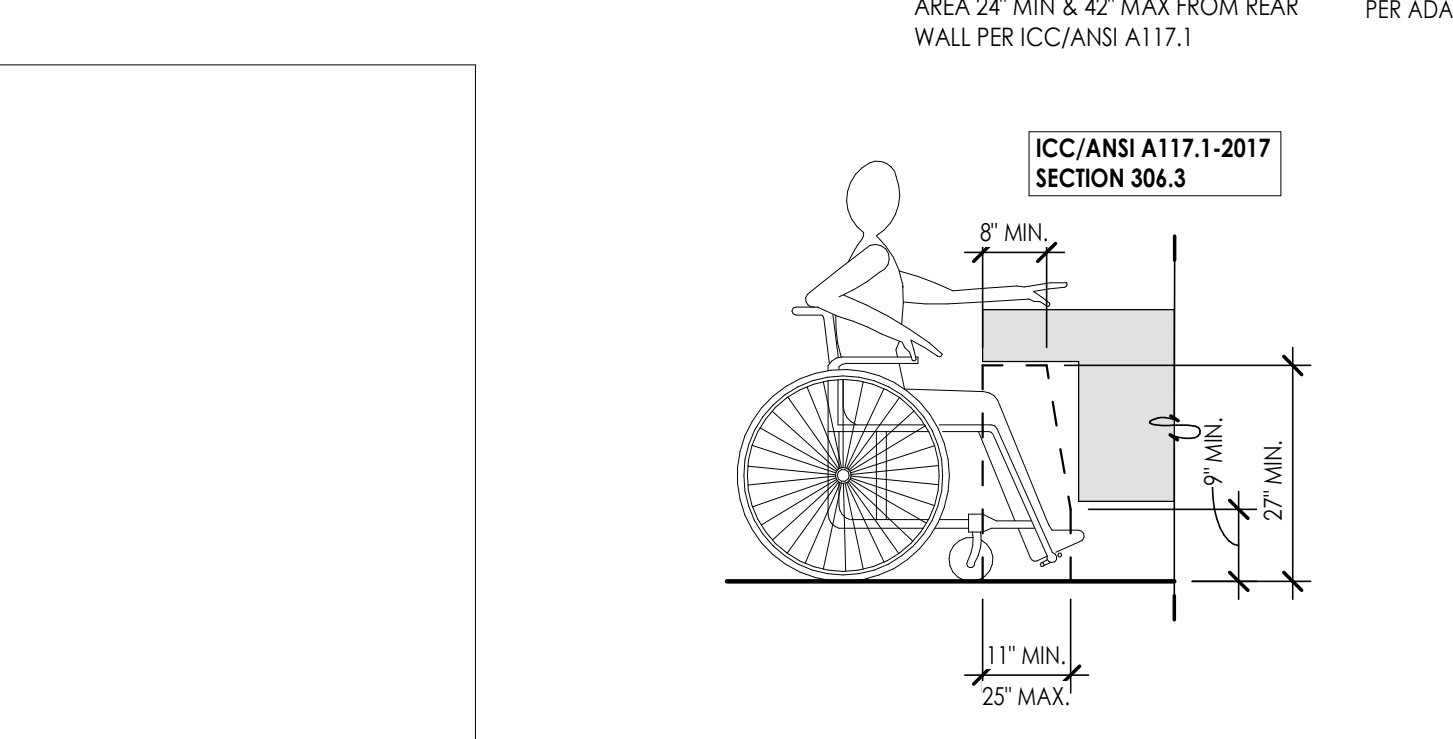
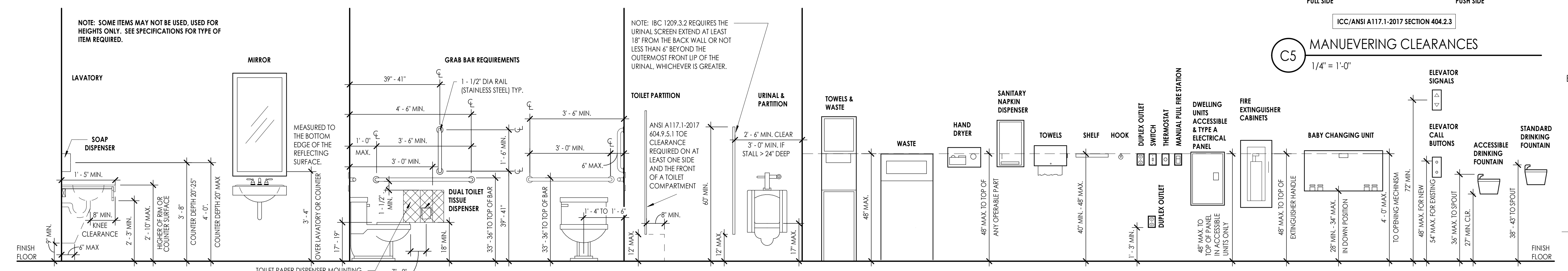
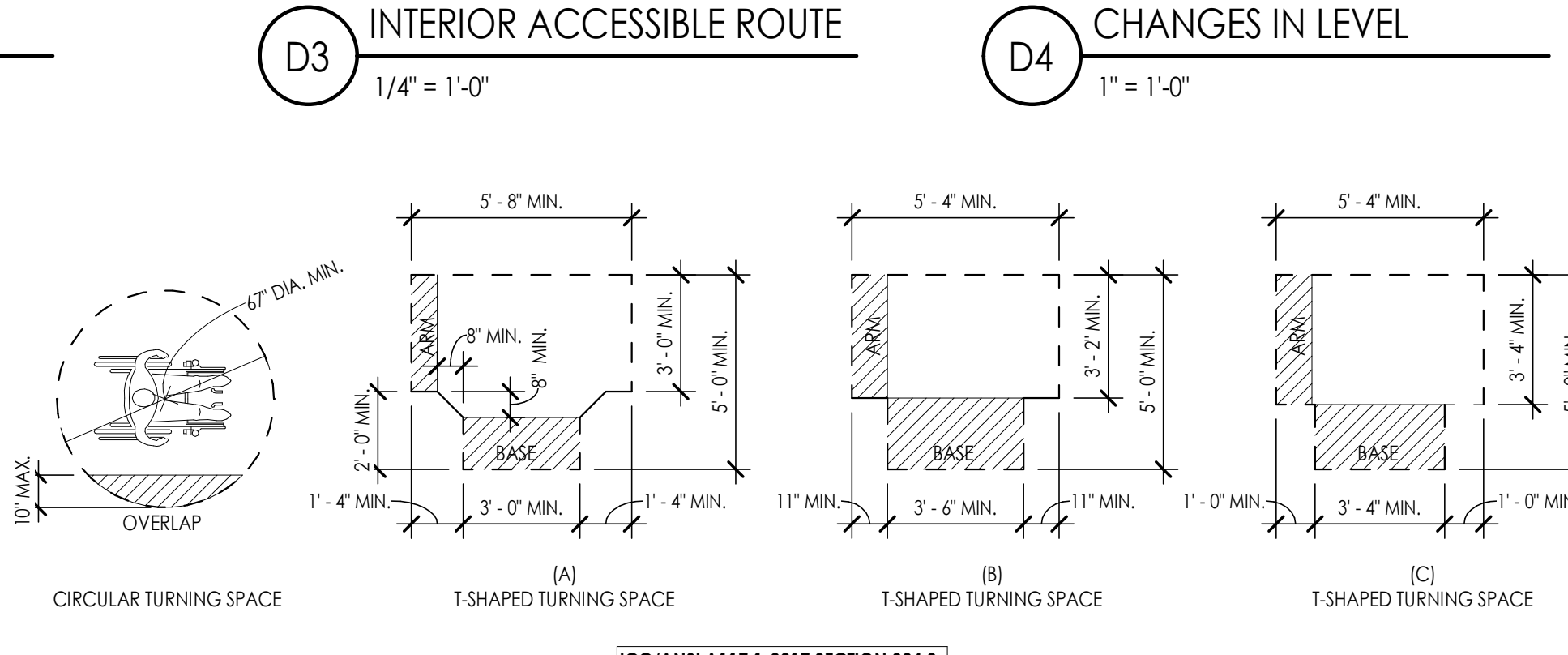
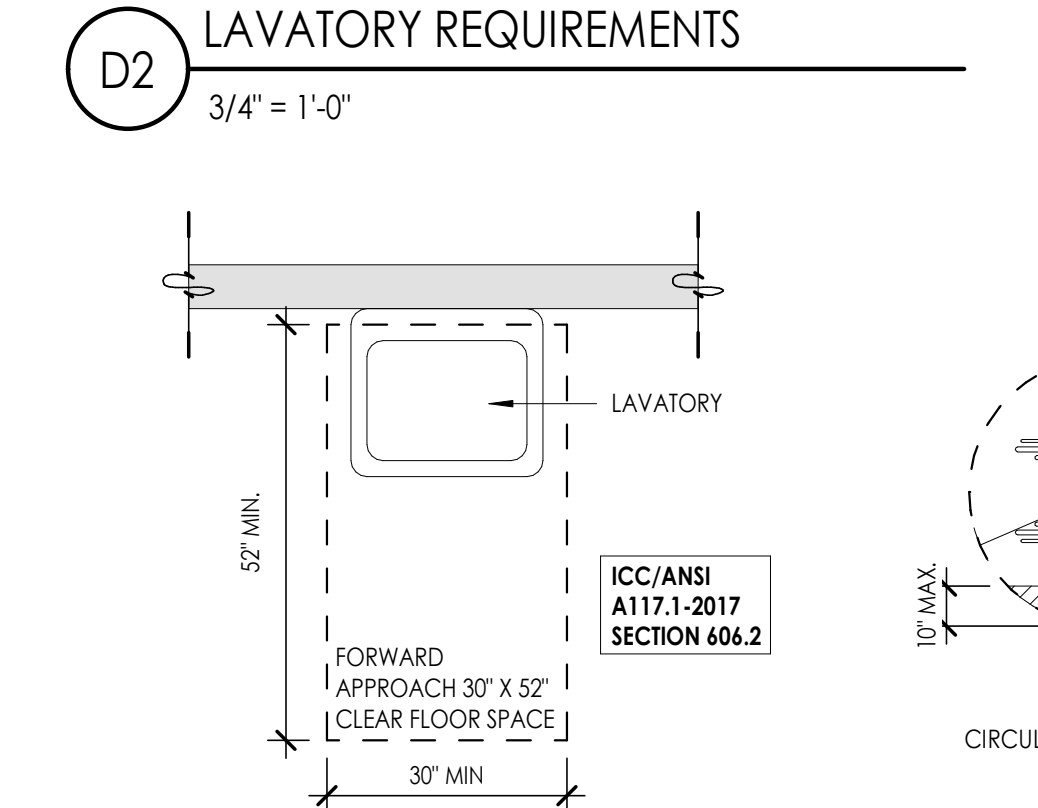
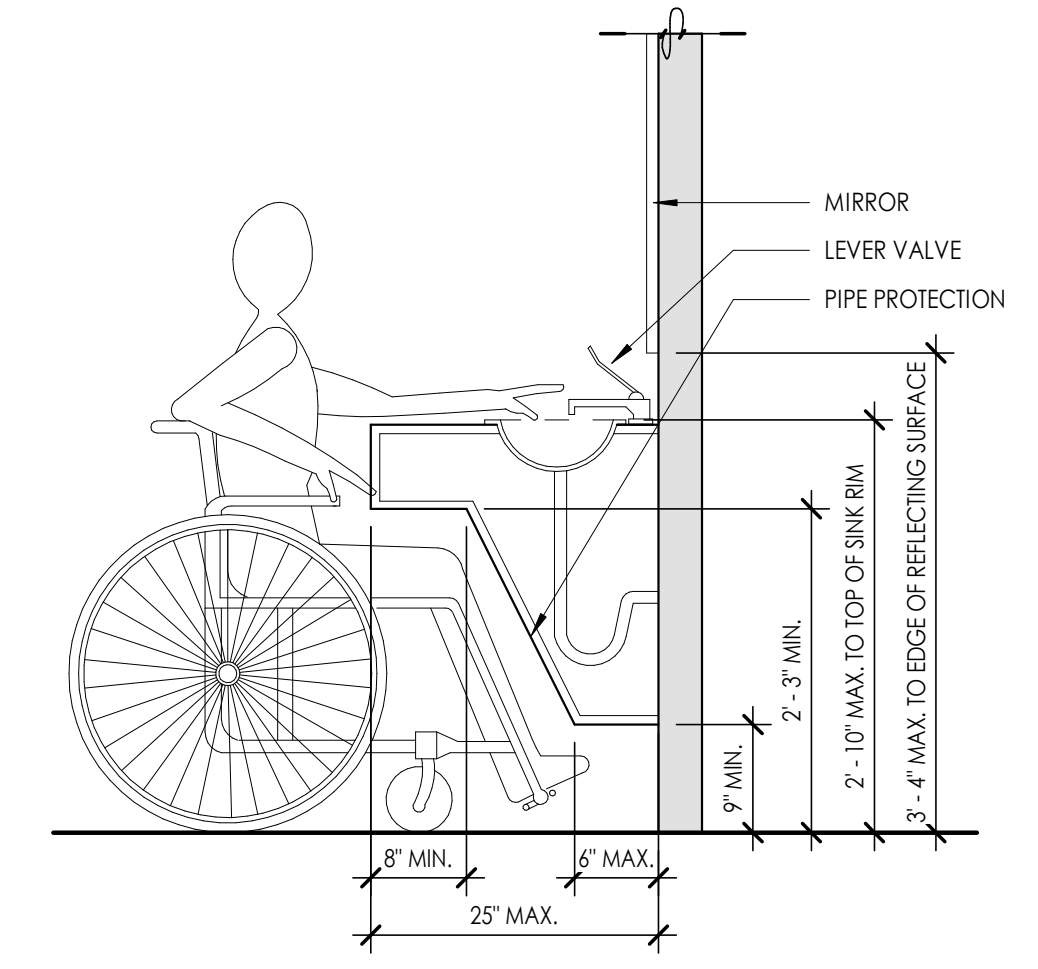
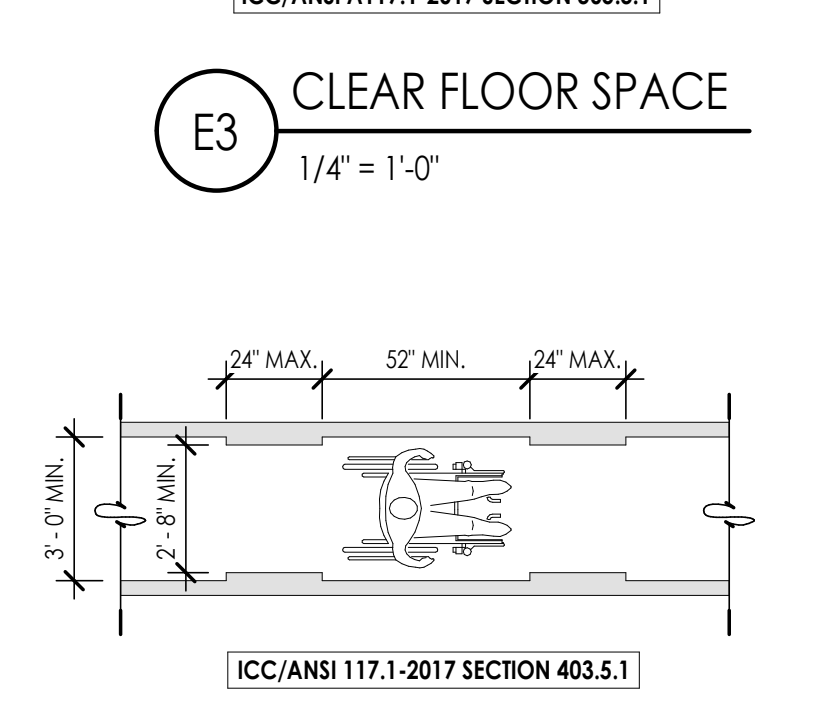
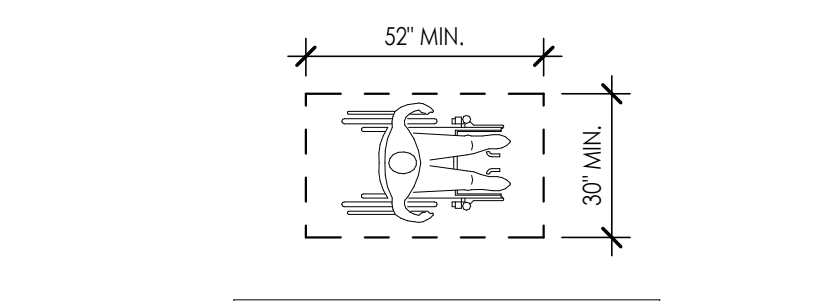
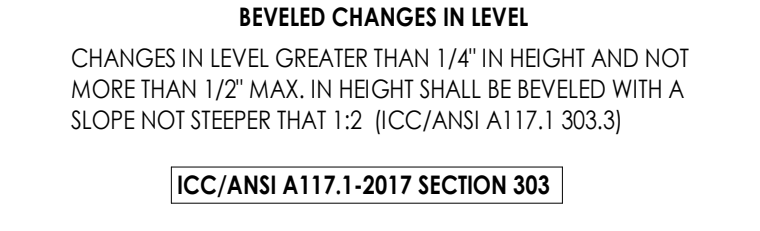
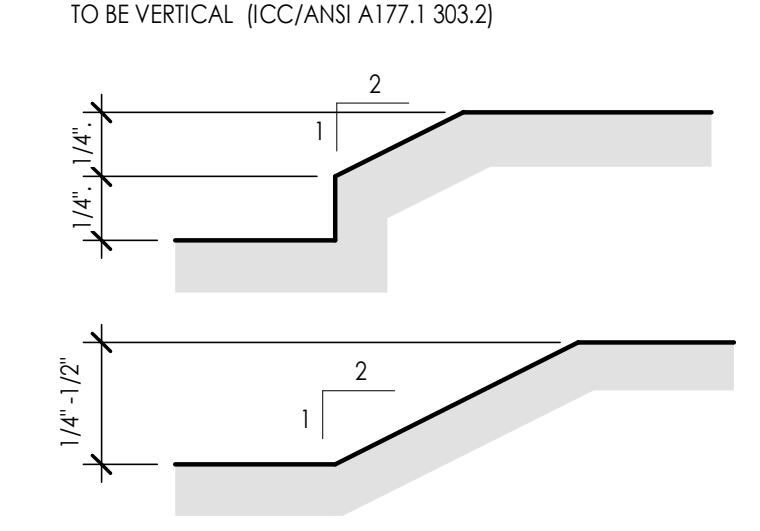
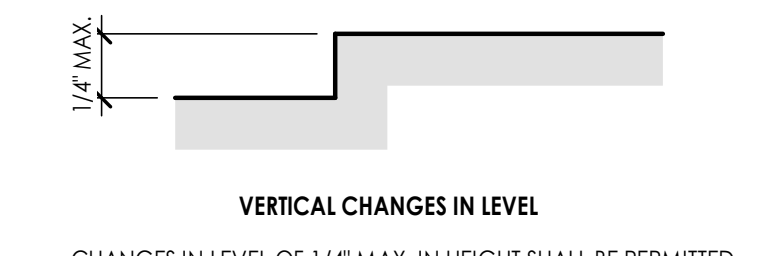
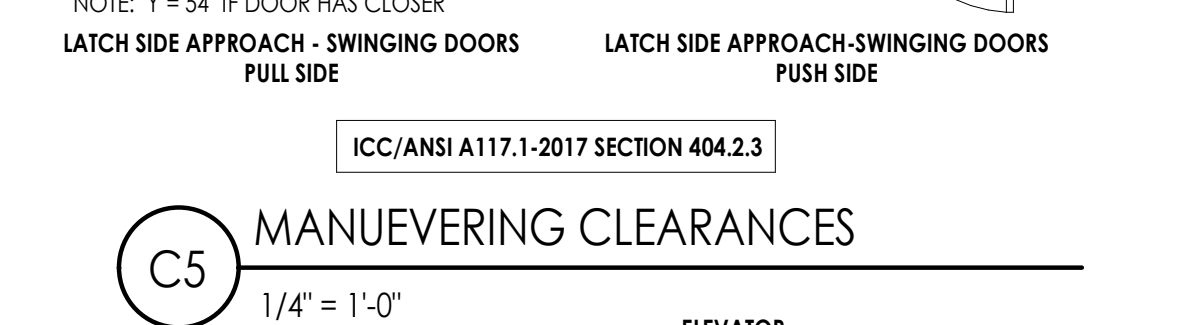
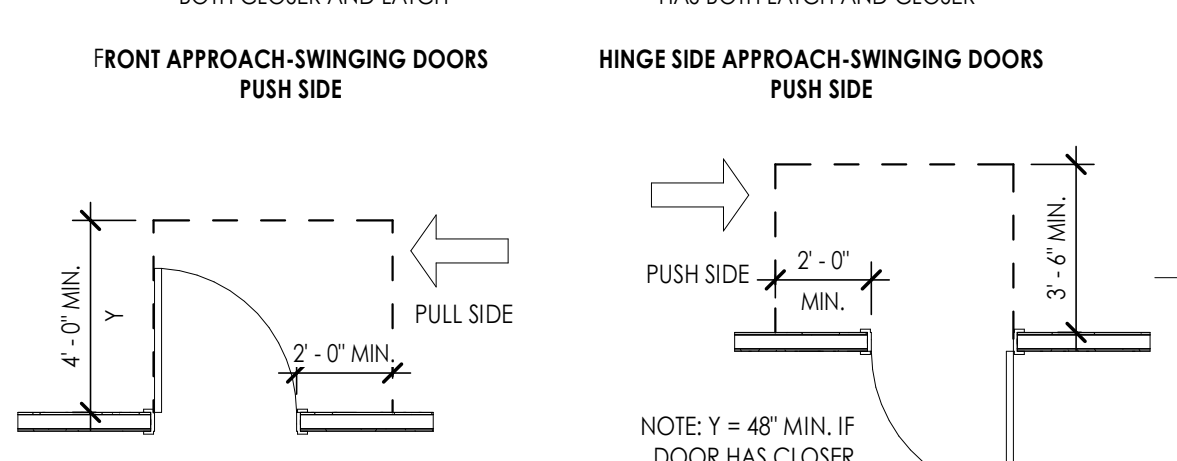
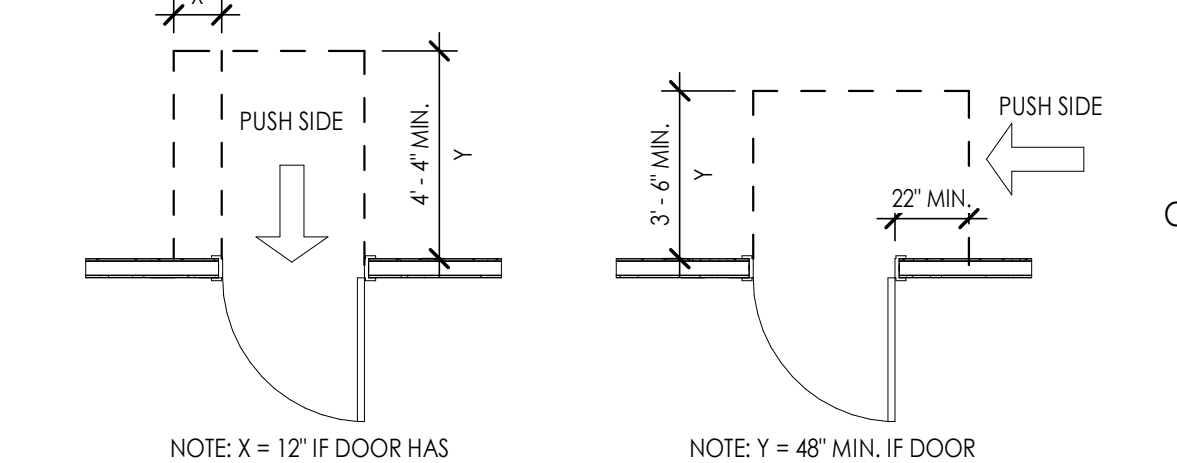
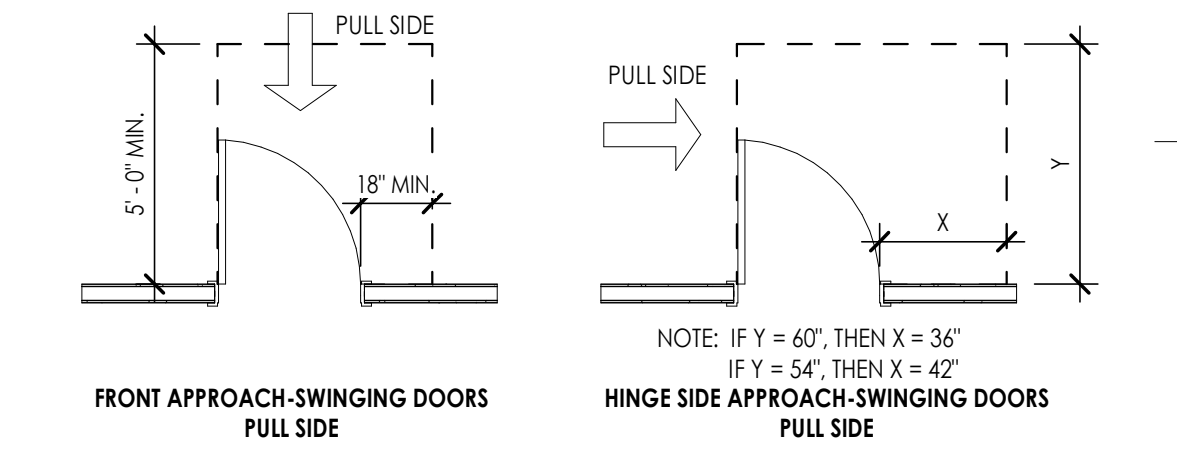
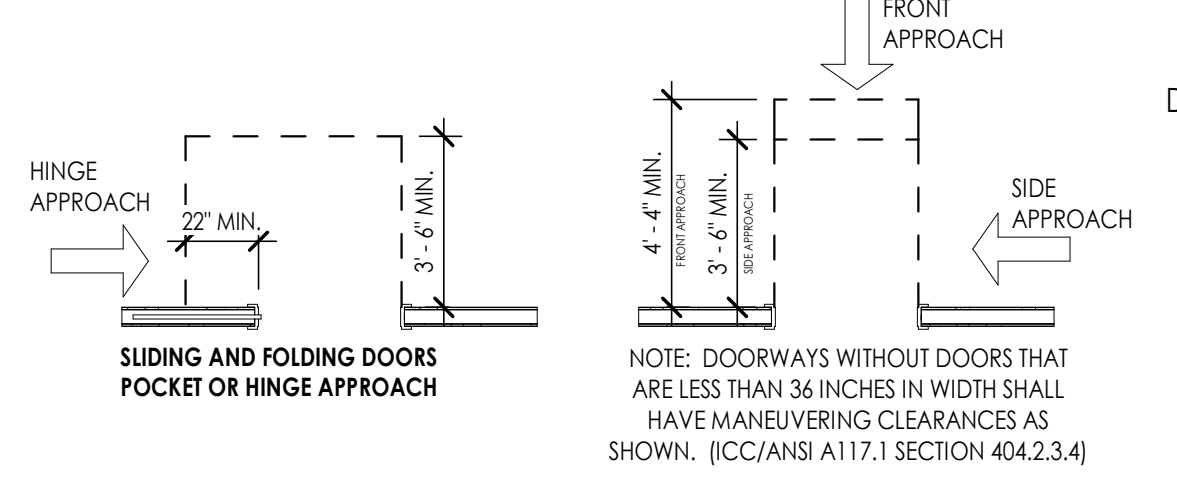
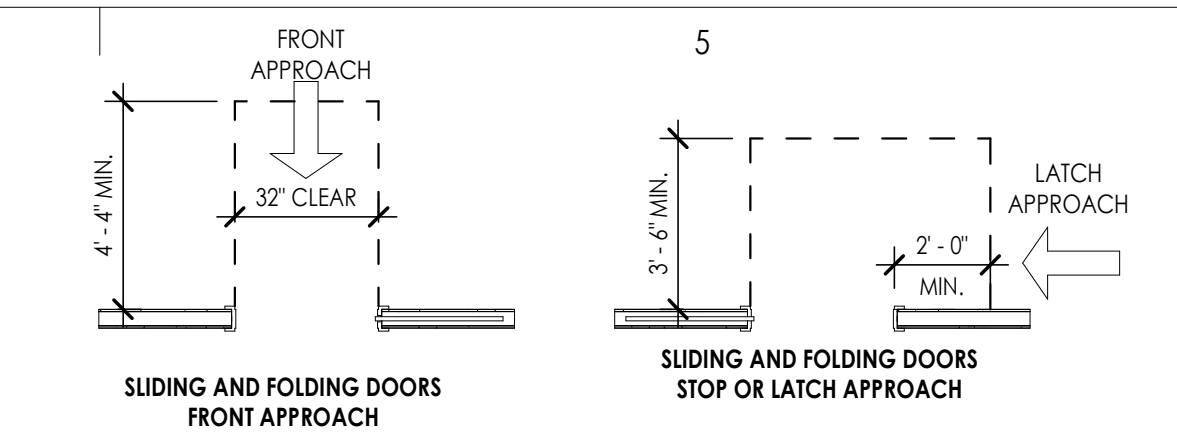
Project Name

Issued	No.	Date	Description

Revision

No.	Date	Description

DFCM Project No. 22400240
SAA Project No. 2021-57
Drawing Title



D

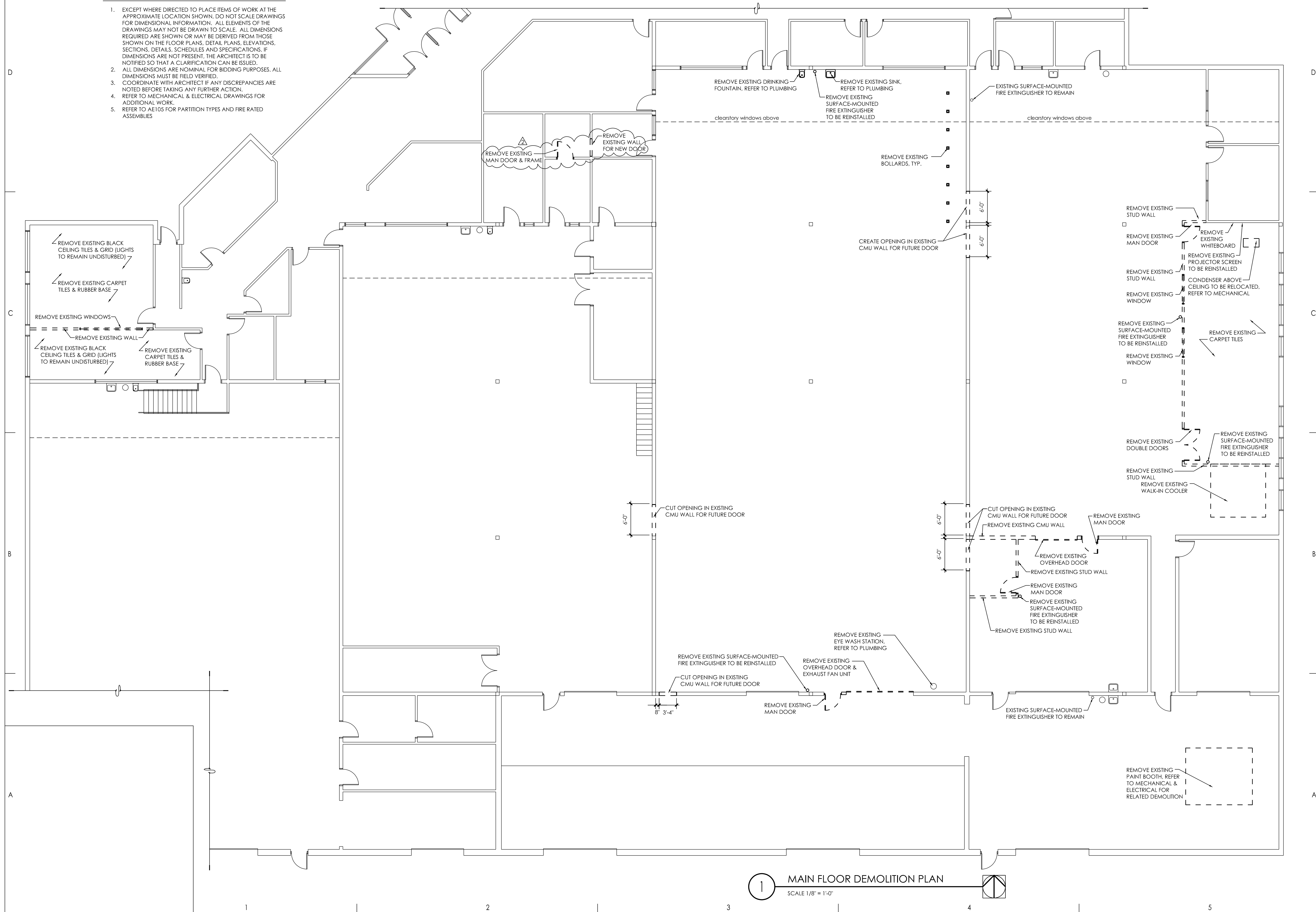
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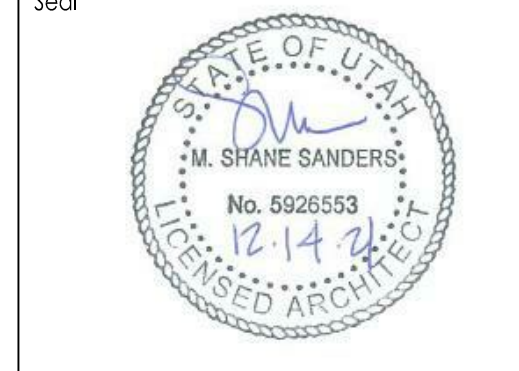
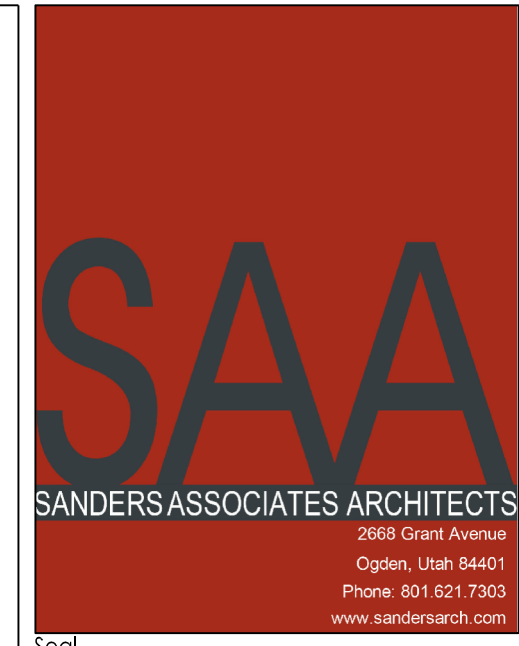
A

GENERAL NOTES

- EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.
- ALL DIMENSIONS ARE NOMINAL FOR BIDDING PURPOSES. ALL DIMENSIONS MUST BE FIELD VERIFIED.
- COORDINATE WITH ARCHITECT IF ANY DISCREPANCIES ARE NOTED BEFORE TAKING ANY FURTHER ACTION.
- REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL WORK.
- REFER TO AE105 FOR PARTITION TYPES AND FIRE RATED ASSEMBLIES



1 MAIN FLOOR DEMOLITION PLAN
SCALE 1/8" = 1'-0"



Consultant

ELECTRICAL PROGRAM RELOCATION Ogden Weber Technical College 200 N. Washington Blvd. Ogden, Utah 84404

Project Name

Issued		
No.	Date	Description
1	9-01-21	PLAN REVIEW / BID

Revision		
No.	Date	Description
2	1-27-22	OWNER UPDATES
-	-	-
-	-	-
-	-	-

SAA Project No. 2021-24
Drawing Title

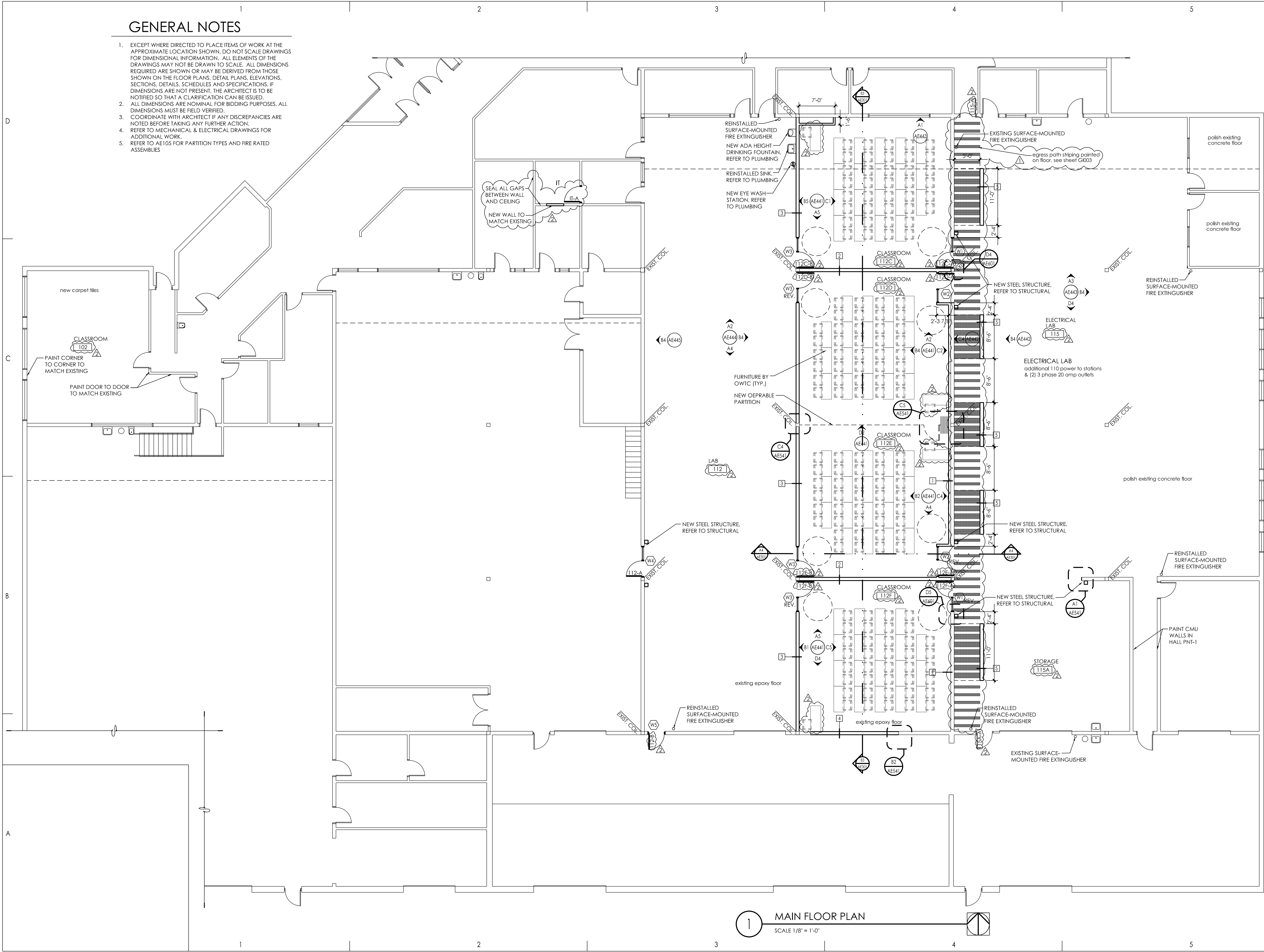
Main Floor Demolition Plan

Sheet Number

AE101

GENERAL NOTES

- EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED. ALL DIMENSIONS ARE NOMINAL FOR BIDDING PURPOSES. ALL DIMENSIONS MUST BE FIELD VERIFIED.
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Project Name

Issued No.	Date	Description
1	9-01-21	PLAN REVIEW / BID

Revision No.	Date	Description
2	1-27-22	OWNER UPDATES
-	-	-
-	-	-
-	-	-

SAA Project No. 2021-24
 Drawing Title

Main Floor Plan

Sheet Number

AE102

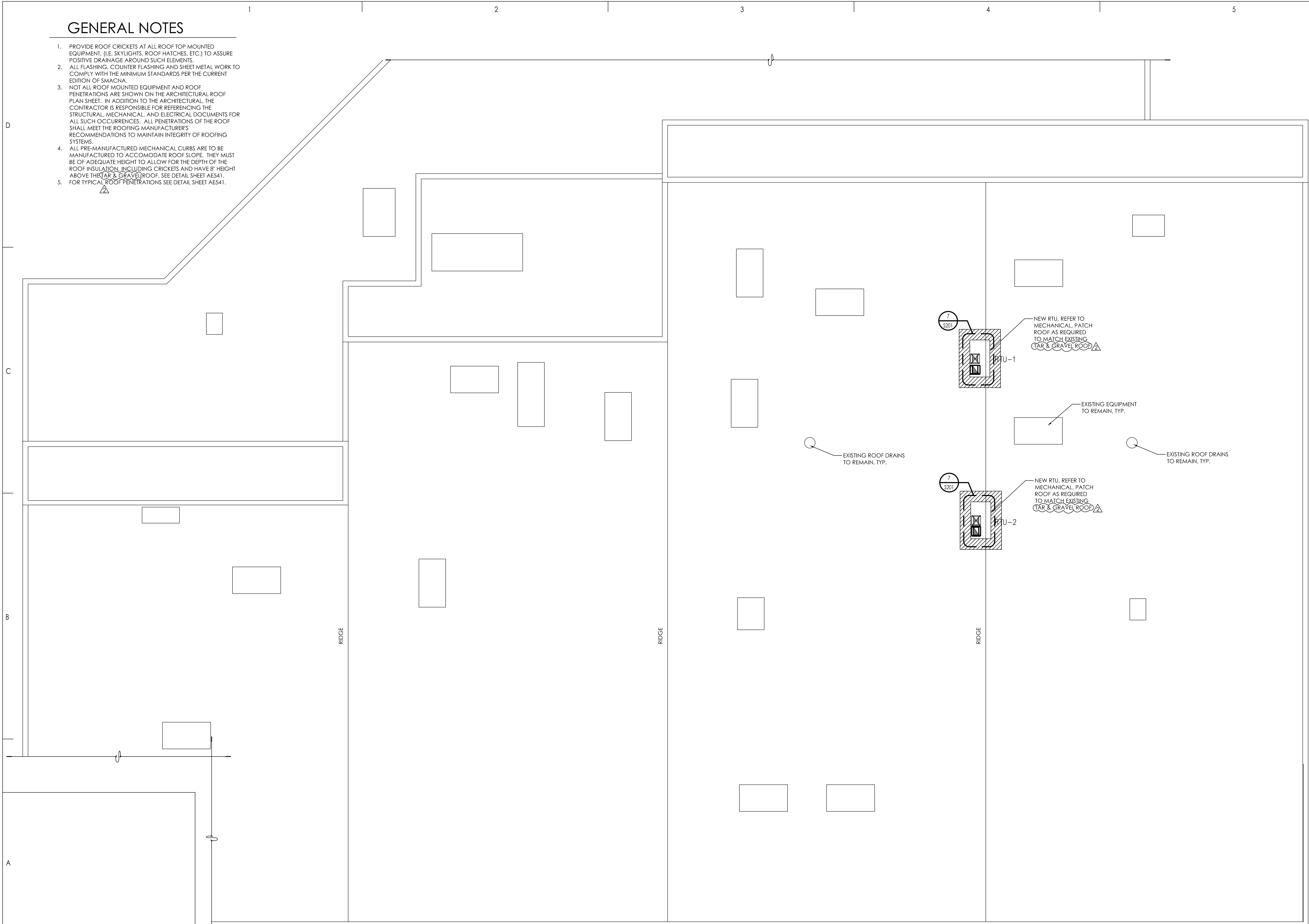
1 MAIN FLOOR PLAN
 SCALE 1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE ROOF CRICKETS AT ALL ROOF TOP MOUNTED EQUIPMENT, (I.E. SKYLIGHTS, ROOF HATCHES, ETC.) TO ASSURE POSITIVE DRAINAGE AROUND SUCH ELEMENTS.
2. ALL FLASHING, COUNTER FLASHING AND SHEET METAL WORK TO COMPLY WITH THE MINIMUM STANDARDS PER THE CURRENT EDITION OF SMACNA.
3. NOT ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL ROOF PLAN SHEET. IN ADDITION TO THE ARCHITECTURAL, THE CONTRACTOR IS RESPONSIBLE FOR REFERENCING THE STRUCTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS FOR ALL SUCH OCCURRENCES. ALL PENETRATIONS OF THE ROOF SHALL MEET THE ROOFING MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN INTEGRITY OF ROOFING SYSTEMS.
4. ALL PRE-MANUFACTURED MECHANICAL CURBS ARE TO BE MANUFACTURED TO ACCOMMODATE ROOF SLOPE. THEY MUST BE OF ADEQUATE HEIGHT TO ALLOW FOR THE DEPTH OF THE ROOF INSULATION, INCLUDING CRICKETS AND HAVE 8" HEIGHT ABOVE THE TAR & GRAVEL ROOF. SEE DETAIL SHEET AE541.
5. FOR TYPICAL ROOF PENETRATIONS SEE DETAIL SHEET AE541.



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Ogden Weber Technical College
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Ogden, Utah 84404

Project Name

Issued No.	Date	Description
1	9-01-21	PLAN REVIEW / BID

Revision No.	Date	Description
2	1-27-22	OWNER UPDATES
-	-	-
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SAA Project No. 2021-24
Drawing Title

Roof Plan

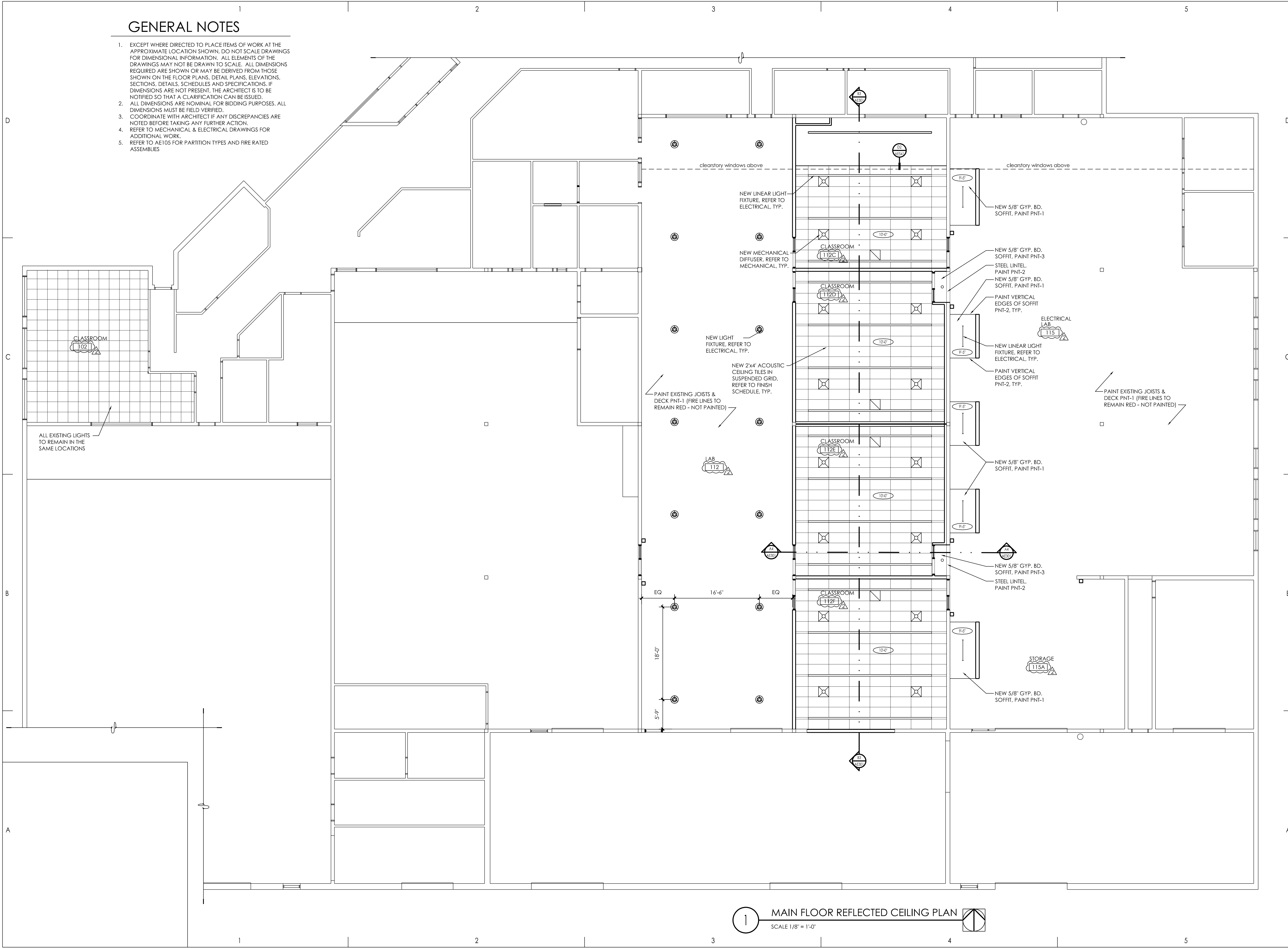
Sheet Number

AE121

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

GENERAL NOTES

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 Ogden, Utah 84404

Project Name

Issued No.	Date	Description
1	9-01-21	PLAN REVIEW / BID

Revision No.	Date	Description
2	1-27-22	OWNER UPDATES
-	-	-
-	-	-

SAA Project No. 2021-24
 Drawing Title

Main Floor Reflected Ceiling Plan

Sheet Number
AE141

1 MAIN FLOOR REFLECTED CEILING PLAN
 SCALE 1/8" = 1'-0"



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Ogden Weber Technical College

200 N. Washington Blvd.
Ogden, Utah 84404

Project Name

Issued		
No.	Date	Description

Revision		
No.	Date	Description
2	02.27.2022	OWNER UPDATES

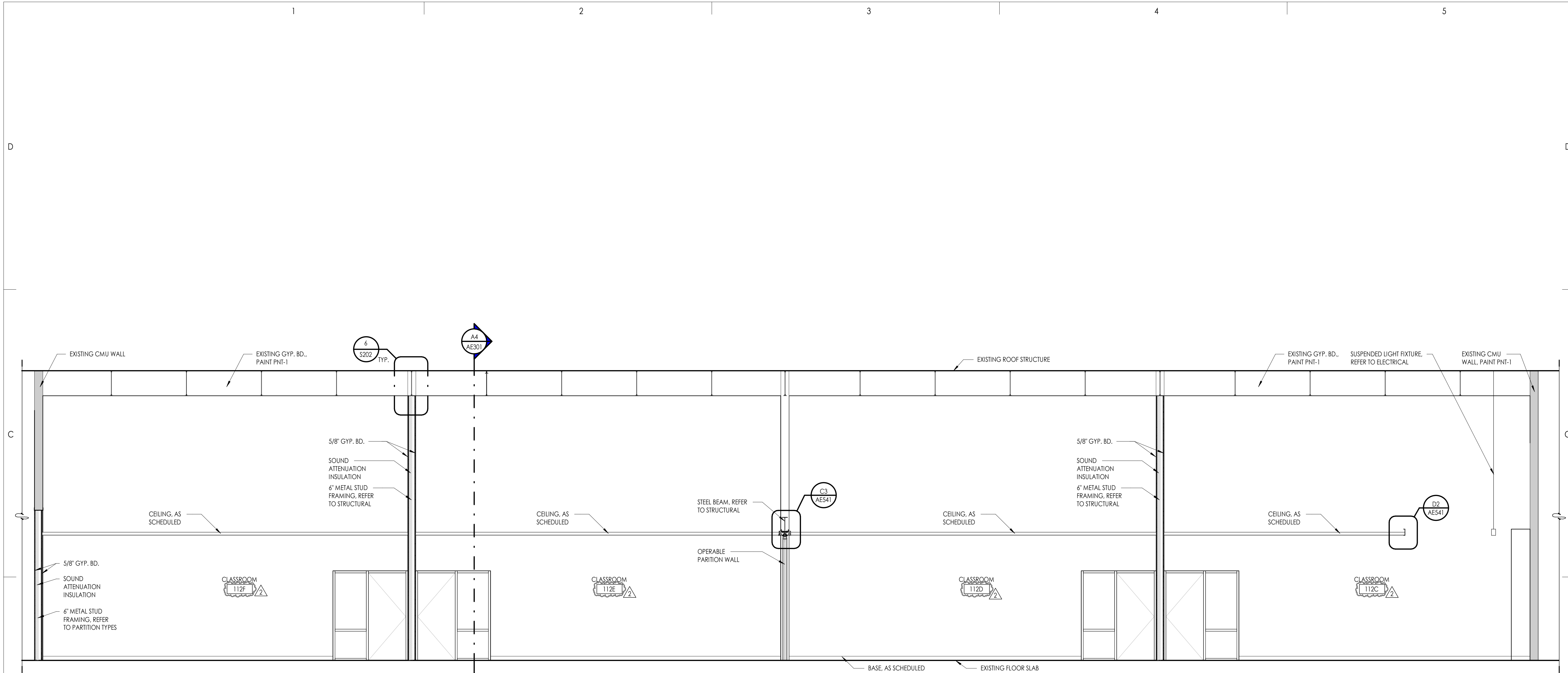
DFCM Project No. 22400240
SAA Project No. 2021-57

Drawing Title

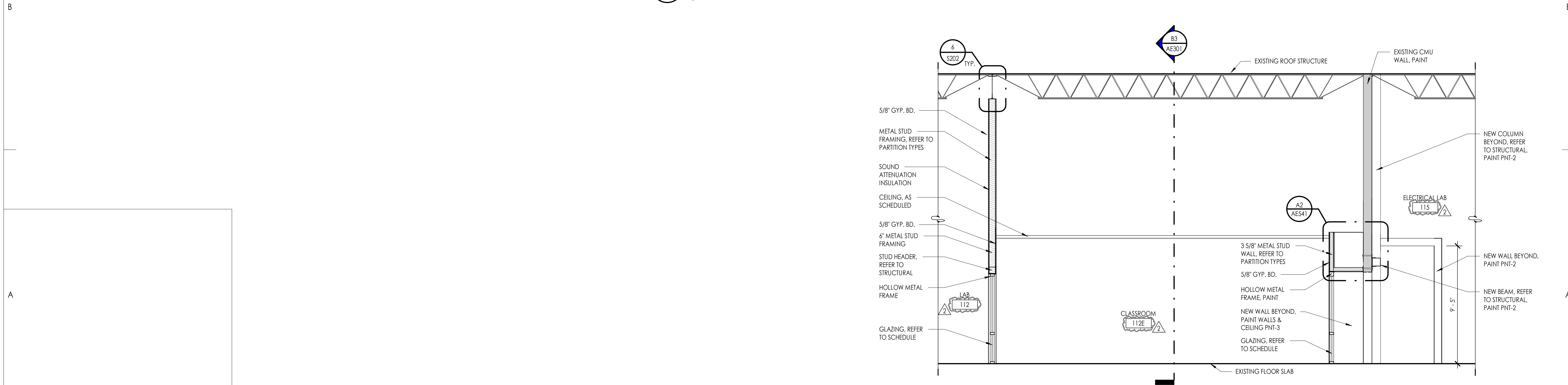
BUILDING SECTIONS

Sheet Number

AE301



B3 BUILDING SECTION
1/4" = 1'-0"



A4 BUILDING SECTION
1/4" = 1'-0"

Consultant

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Ogden Weber Technical College
200 N. Washington Blvd.
Ogden, Utah 84404

Project Name

Issued No.	Date	Description
1	9-01-21	PLAN REVIEW / BID

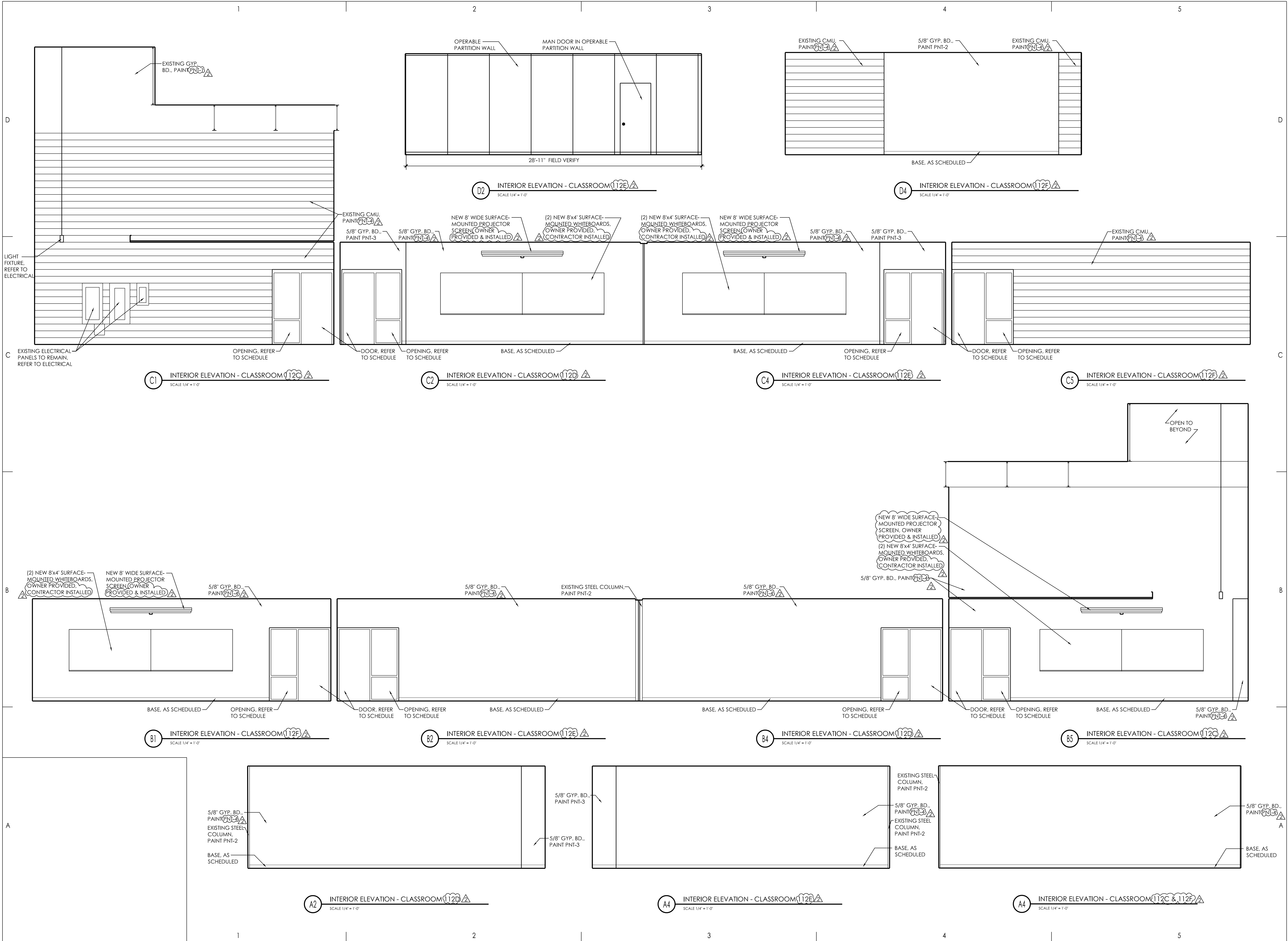
Revision No.	Date	Description
2	1-27-22	OWNER UPDATES

SAA Project No. 2021-24
Drawing Title

INTERIOR ELEVATIONS

Sheet Number

AE441



C1 INTERIOR ELEVATION - CLASSROOM(112C) SCALE 1/4" = 1'-0"

C2 INTERIOR ELEVATION - CLASSROOM(112D) SCALE 1/4" = 1'-0"

C4 INTERIOR ELEVATION - CLASSROOM(112E) SCALE 1/4" = 1'-0"

C5 INTERIOR ELEVATION - CLASSROOM(112F) SCALE 1/4" = 1'-0"

B1 INTERIOR ELEVATION - CLASSROOM(112G) SCALE 1/4" = 1'-0"

B2 INTERIOR ELEVATION - CLASSROOM(112E) SCALE 1/4" = 1'-0"

B4 INTERIOR ELEVATION - CLASSROOM(112D) SCALE 1/4" = 1'-0"

B5 INTERIOR ELEVATION - CLASSROOM(112C) SCALE 1/4" = 1'-0"

A2 INTERIOR ELEVATION - CLASSROOM(112D) SCALE 1/4" = 1'-0"

A4 INTERIOR ELEVATION - CLASSROOM(112E) SCALE 1/4" = 1'-0"

A4 INTERIOR ELEVATION - CLASSROOM(112C & 112F) SCALE 1/4" = 1'-0"



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 Ogden, Utah 84404

Project Name

Issued		
No.	Date	Description
1	9-01-21	PLAN REVIEW / BID

Revision		
No.	Date	Description
2	1-27-22	OWNER UPDATES
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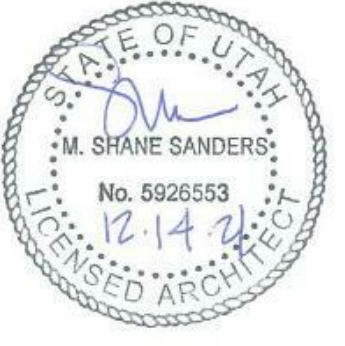
SAA Project No. 2021-24
 Drawing Title

INTERIOR
 ELEVATIONS

Sheet Number

AE442





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 Ogden Weber Technical College
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 Ogden, Utah 84404

Project Name

Issued

No.	Date	Description
1	9-01-21	PLAN REVIEW / BID

Revision

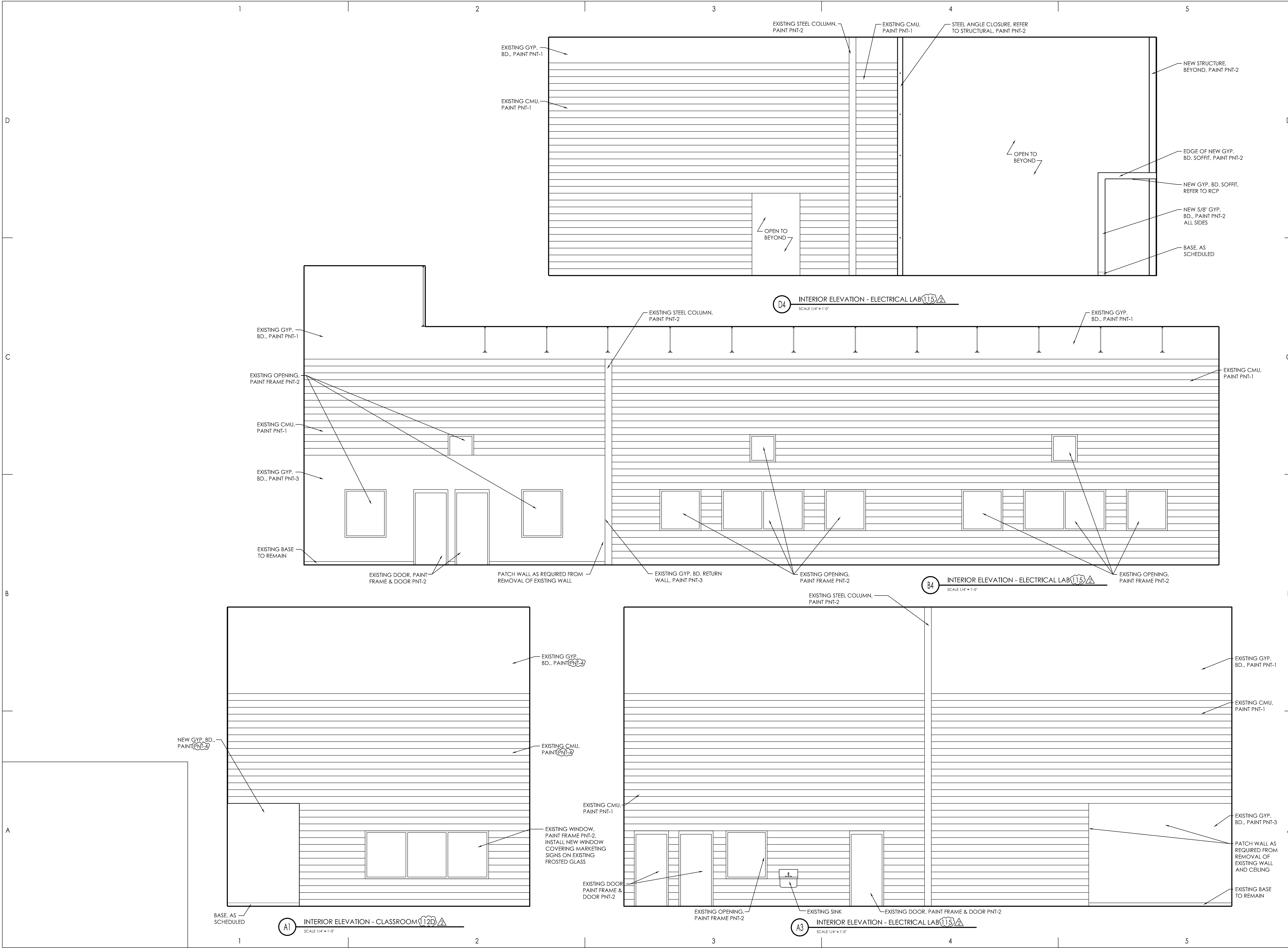
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2	1-27-22	OWNER UPDATES
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-	-	-

SAA Project No. 2021-24
 Drawing Title

INTERIOR ELEVATIONS

Sheet Number

AE443





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 Ogden Weber Technical College
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Project Name

Issued		
No.	Date	Description
1	9-01-21	PLAN REVIEW / BID

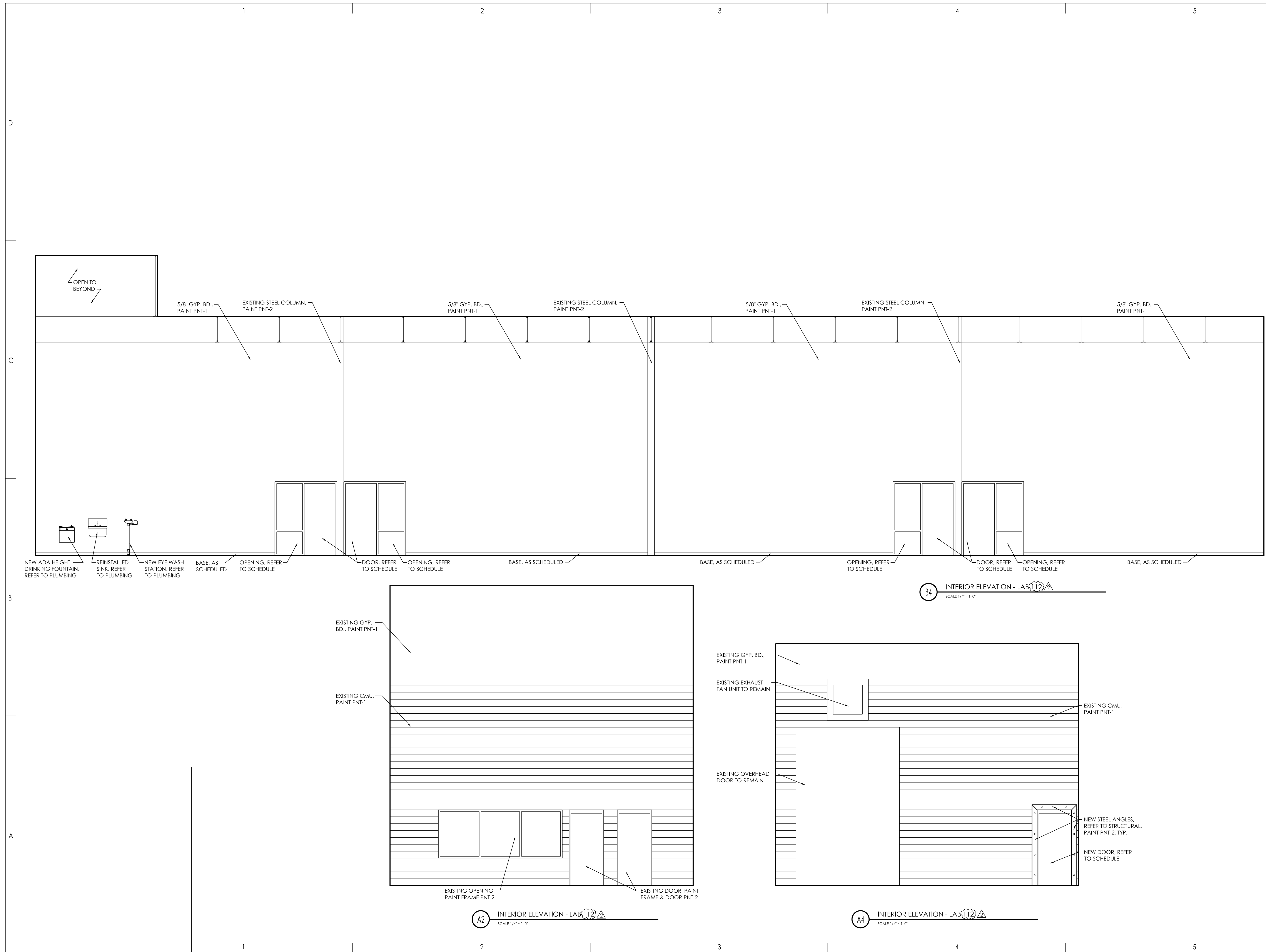
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No.	Date	Description
2	1-27-22	OWNER UPDATES
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-	-	-

SA Project No. 2021-24
 Drawing Title

INTERIOR ELEVATIONS

Sheet Number

AE444



B4 INTERIOR ELEVATION - LAB 112
 SCALE 1/4" = 1'-0"

A2 INTERIOR ELEVATION - LAB 112
 SCALE 1/4" = 1'-0"

A4 INTERIOR ELEVATION - LAB 112
 SCALE 1/4" = 1'-0"



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 Ogden, Utah 84404

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Issued		
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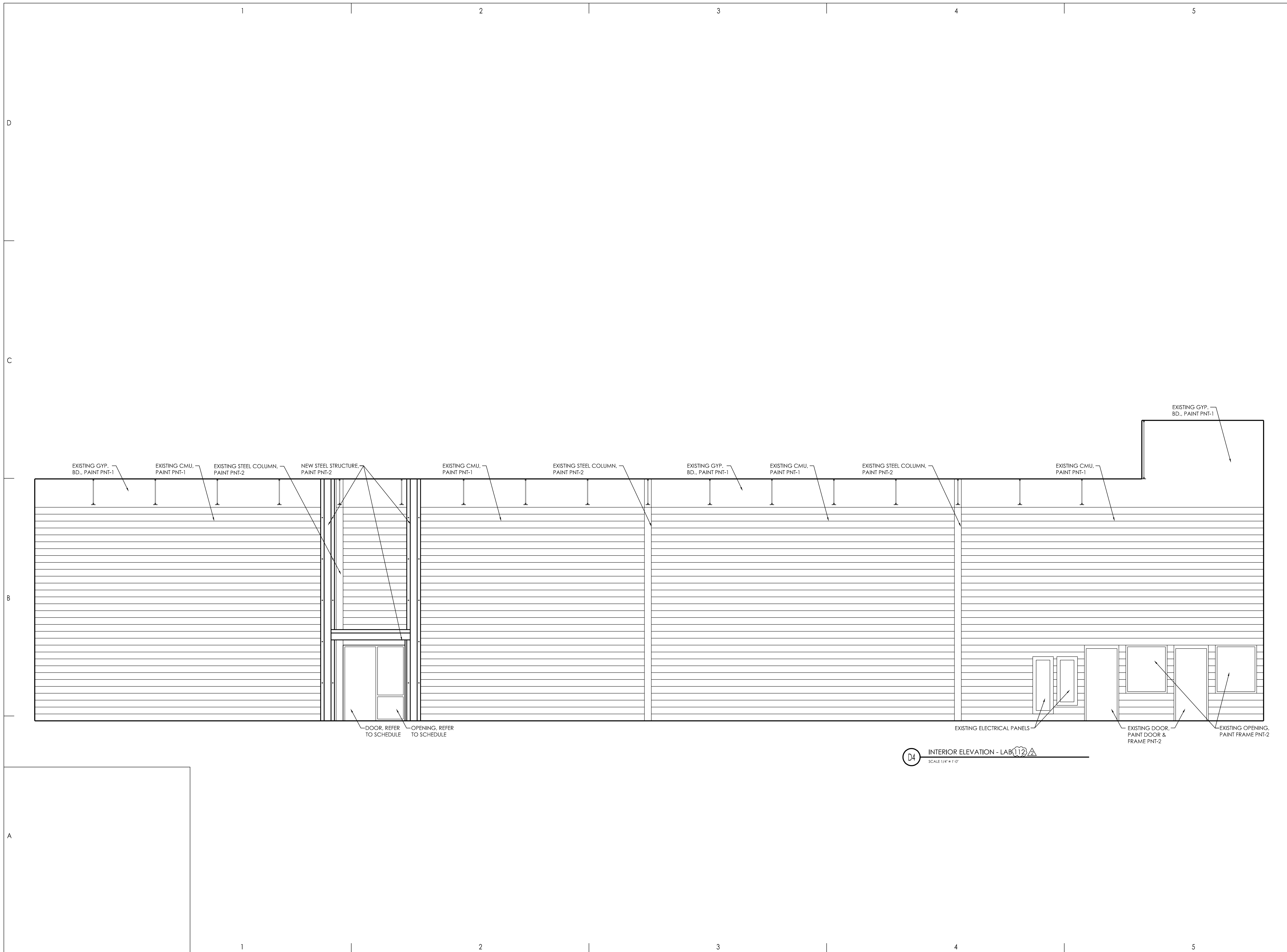
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No.	Date	Description
2	1-27-22	OWNER UPDATES
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SAA Project No. 2021-24
 Drawing Title

INTERIOR
 ELEVATIONS

Sheet Number

AE445



ELECTRICAL PROGRAM RELOCATION
Ogden Weber Technical College
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Ogden, Utah 84404

Project Name

Issued No.	Date	Description

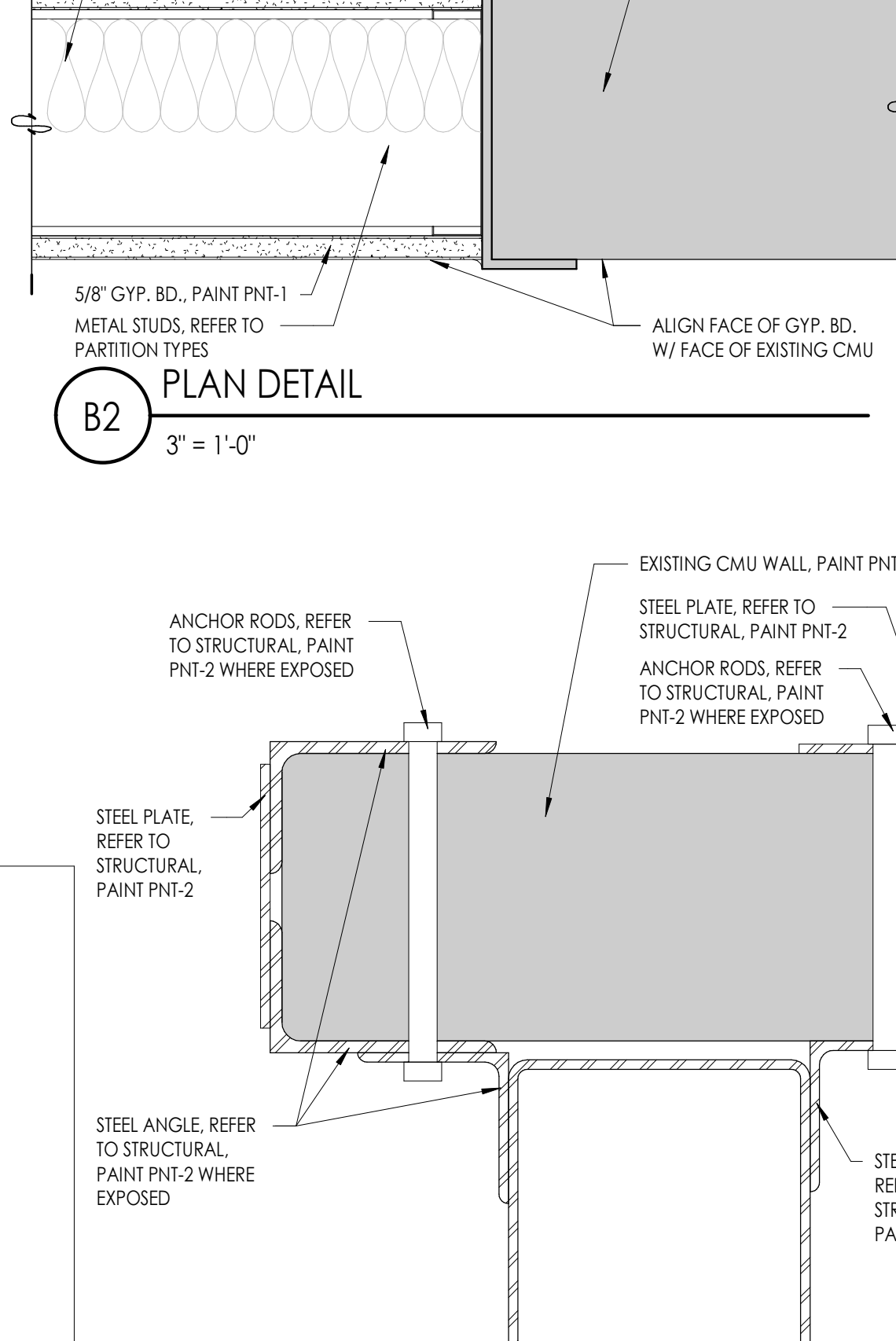
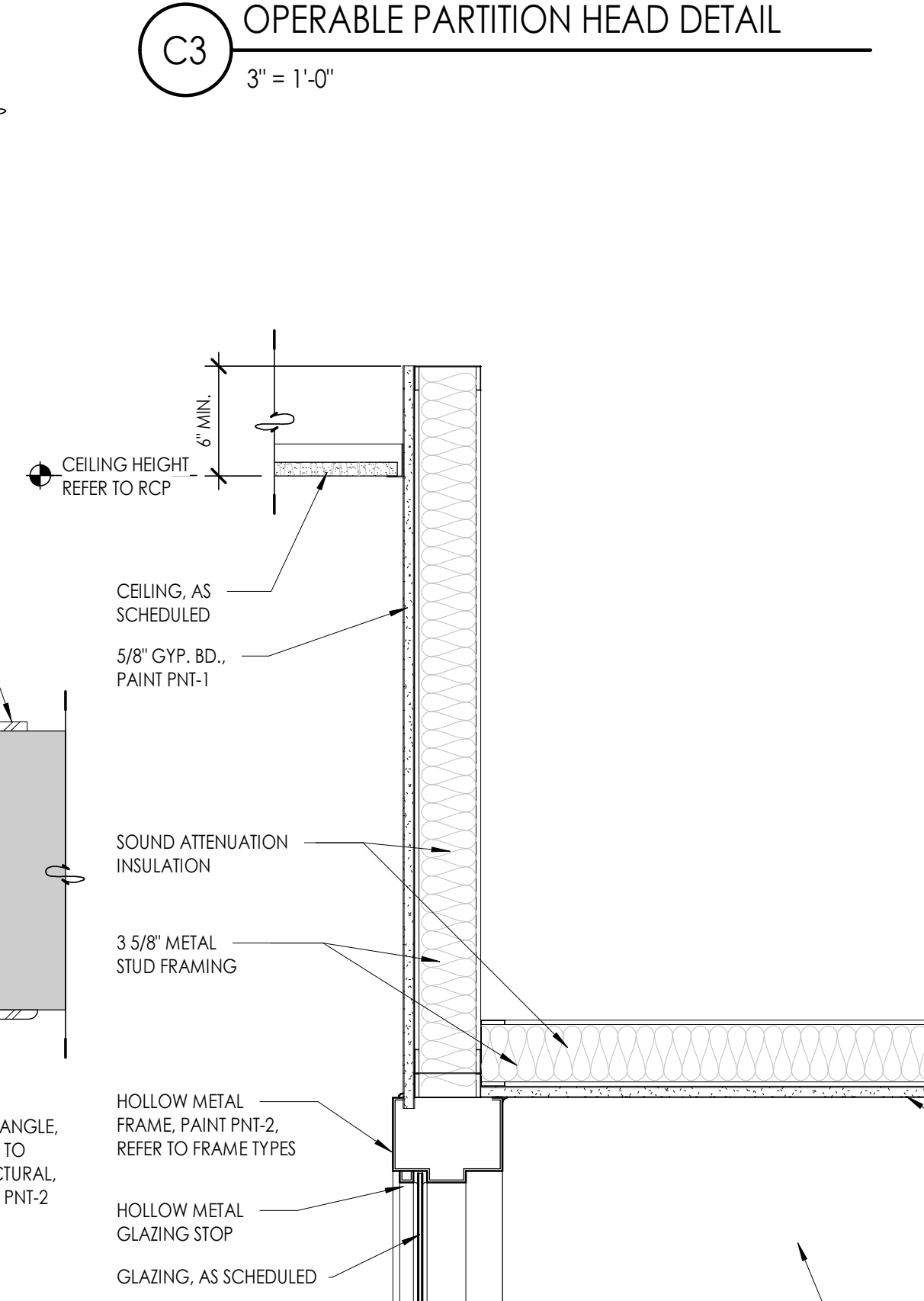
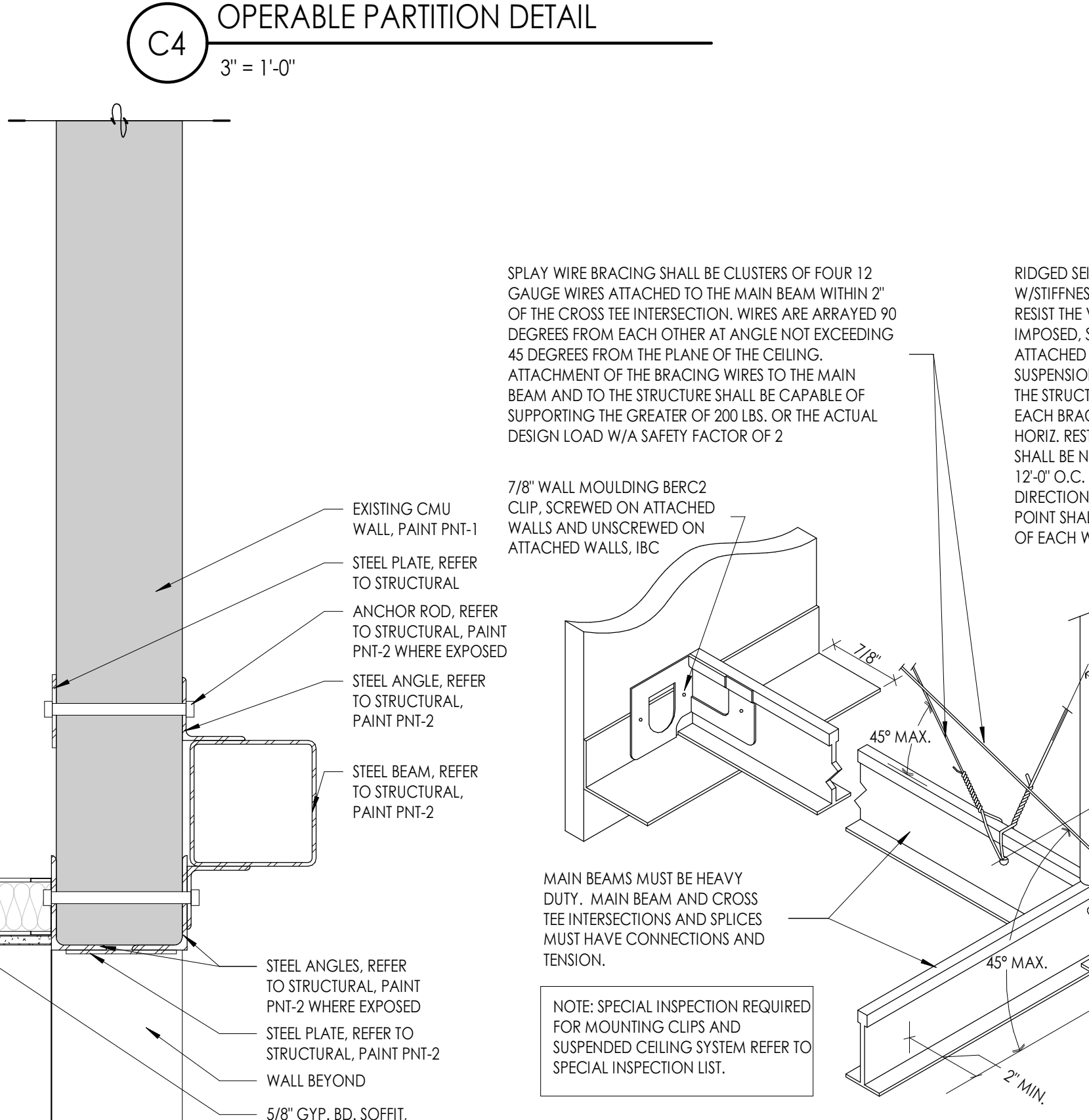
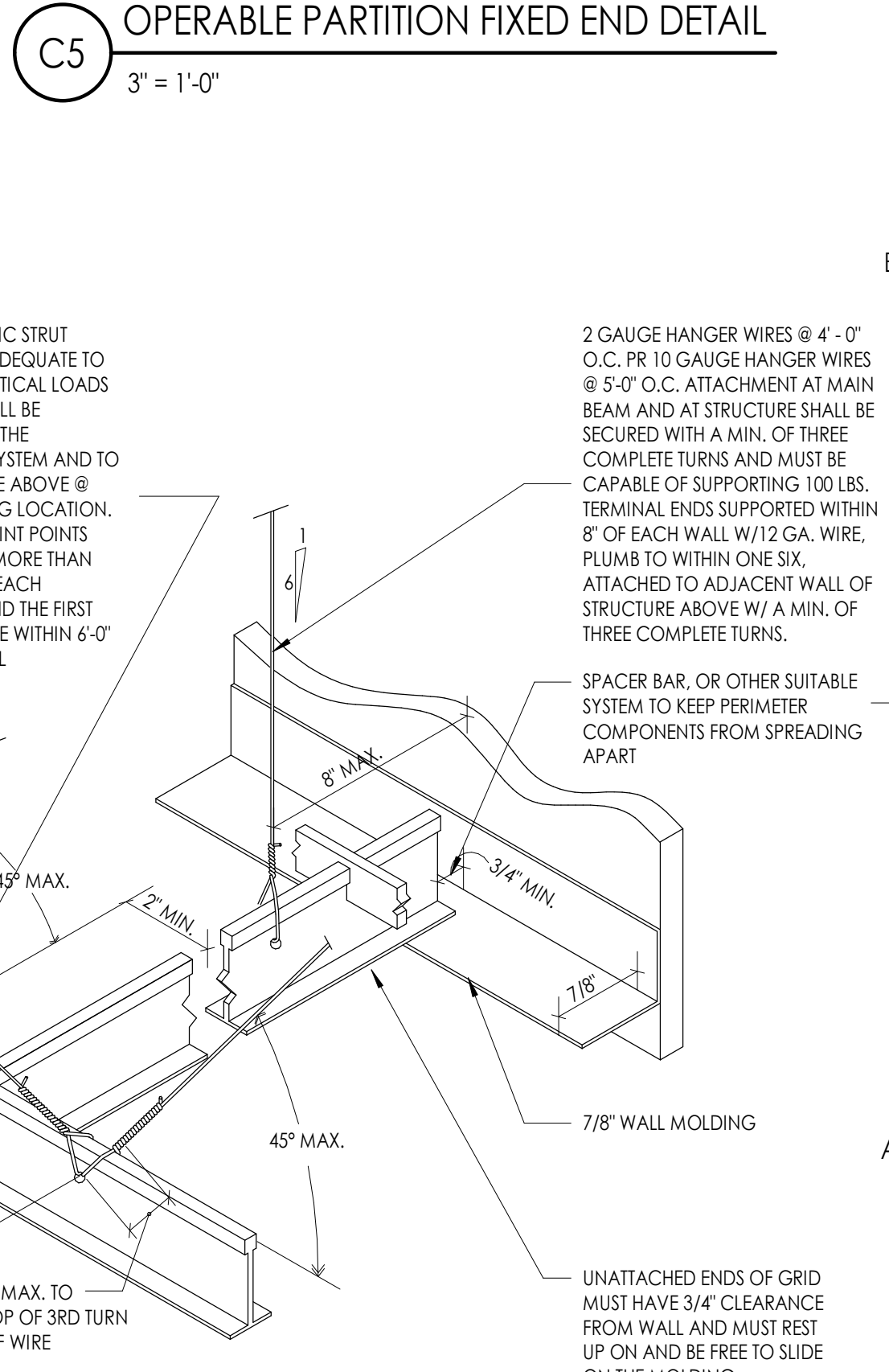
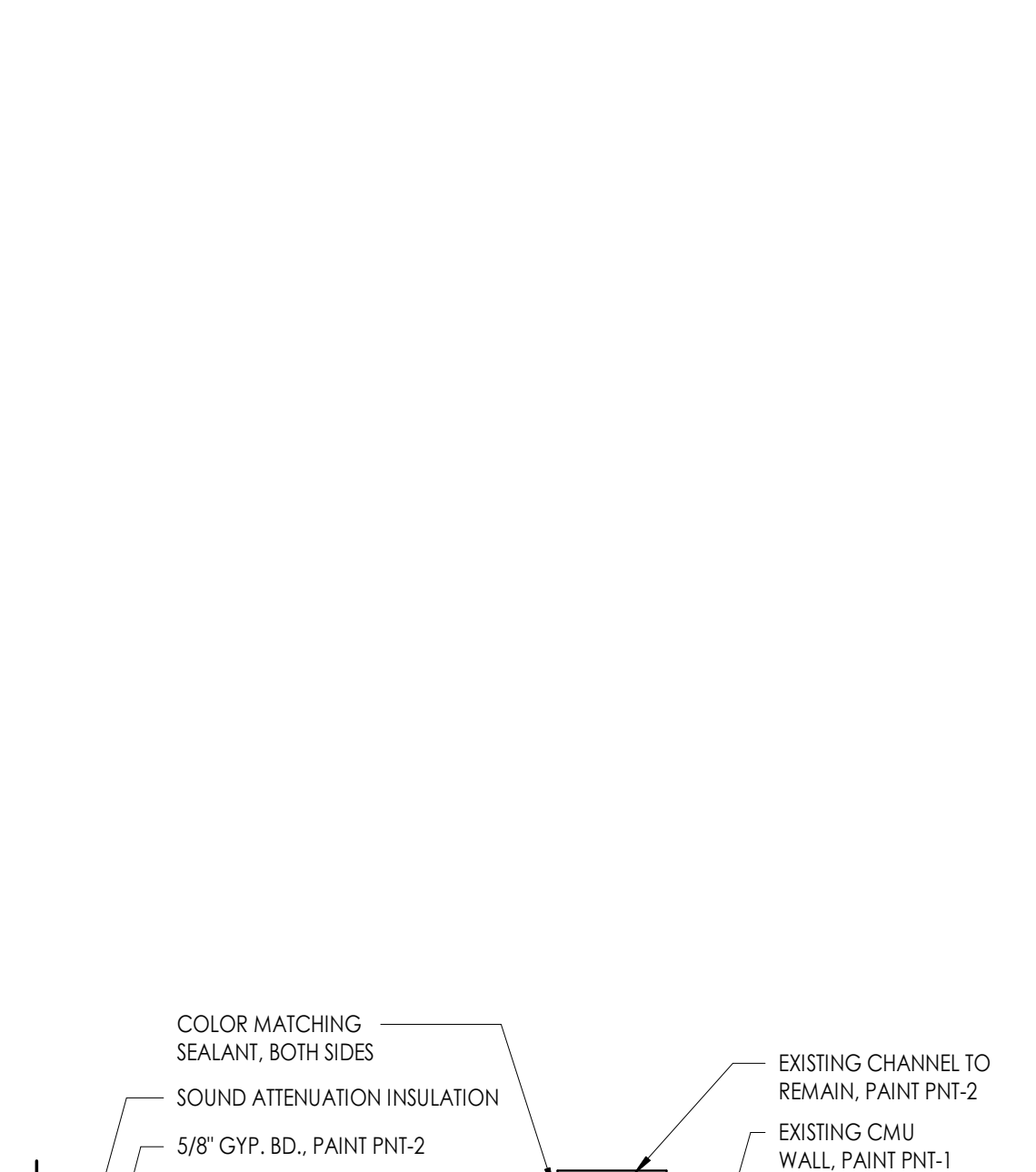
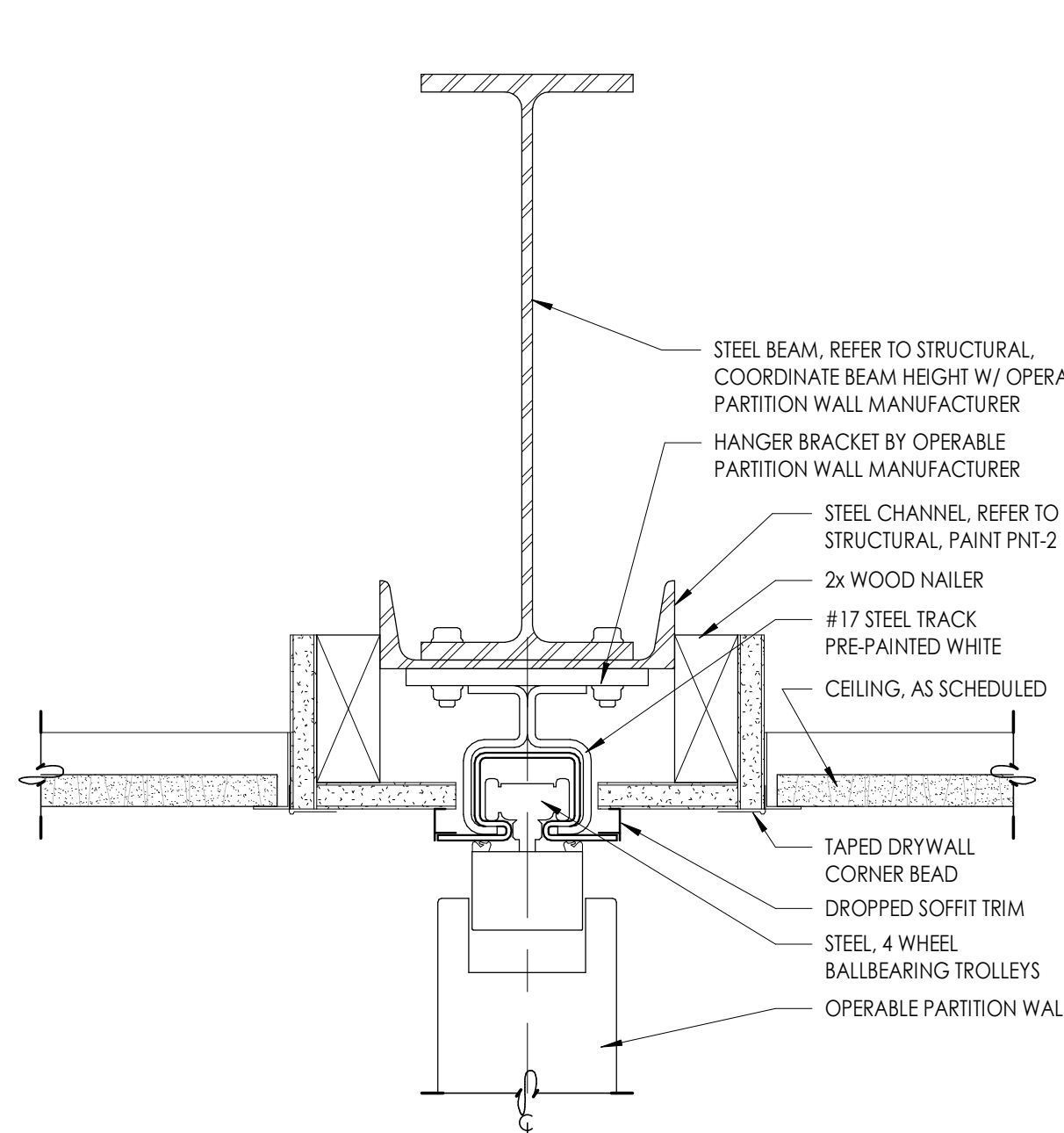
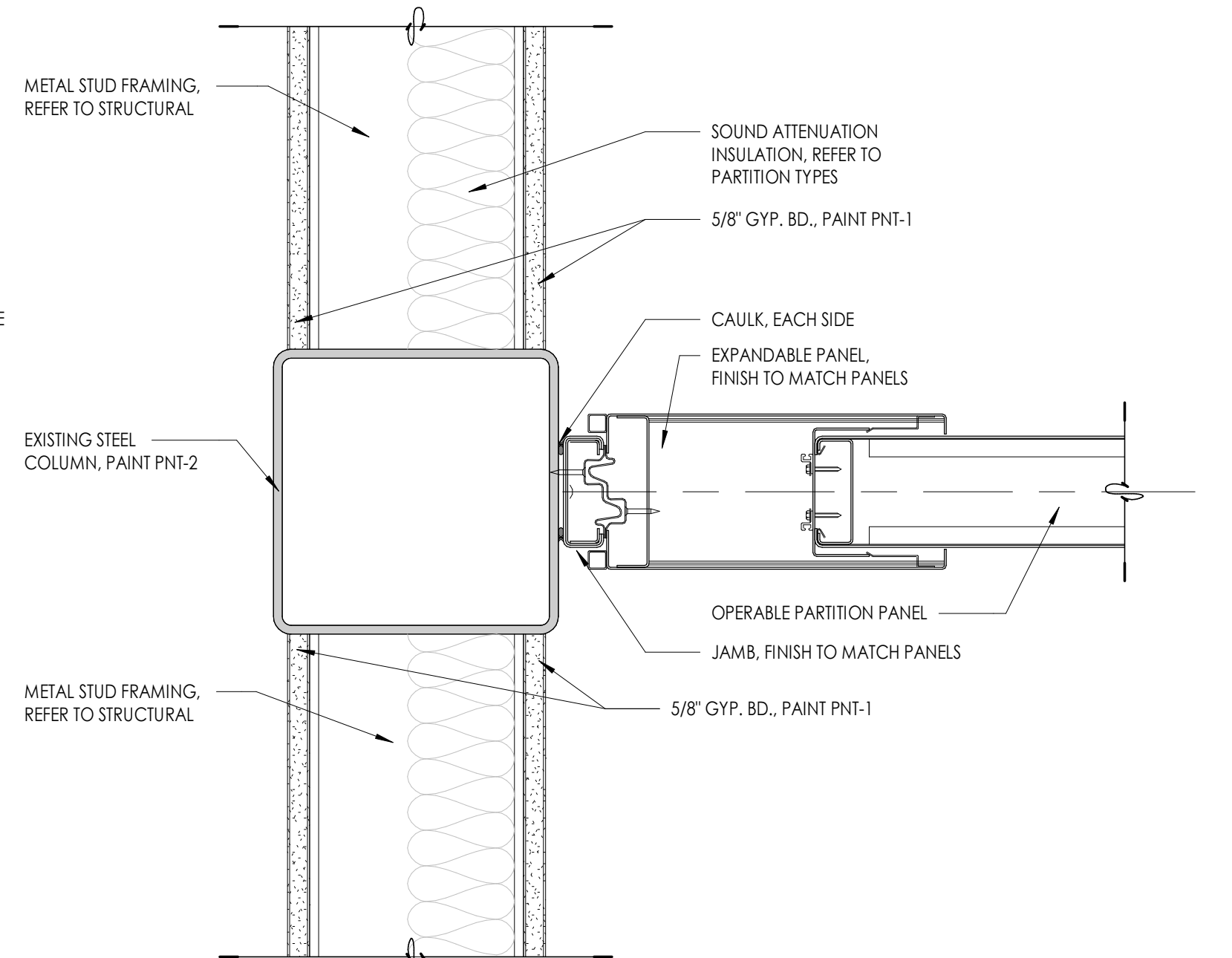
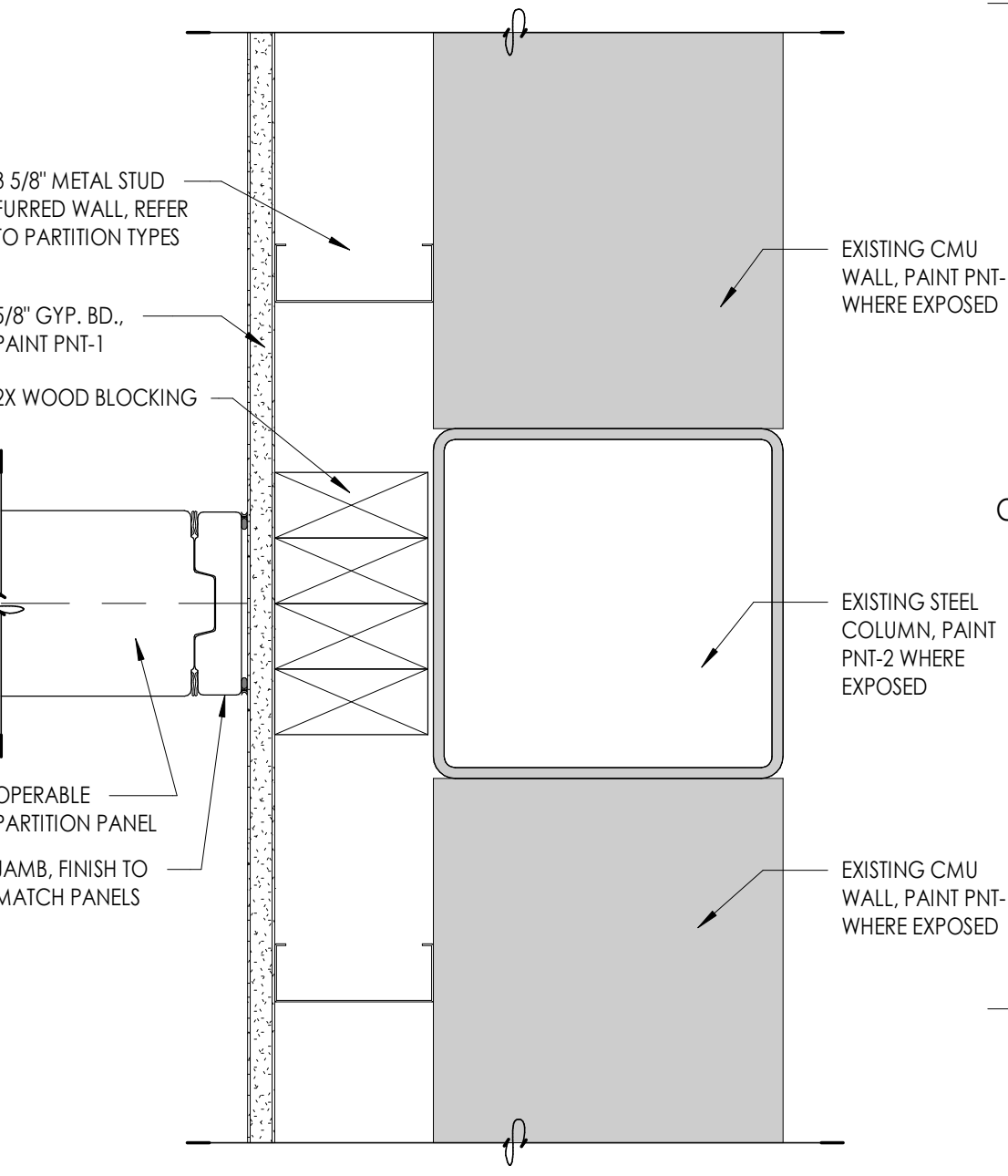
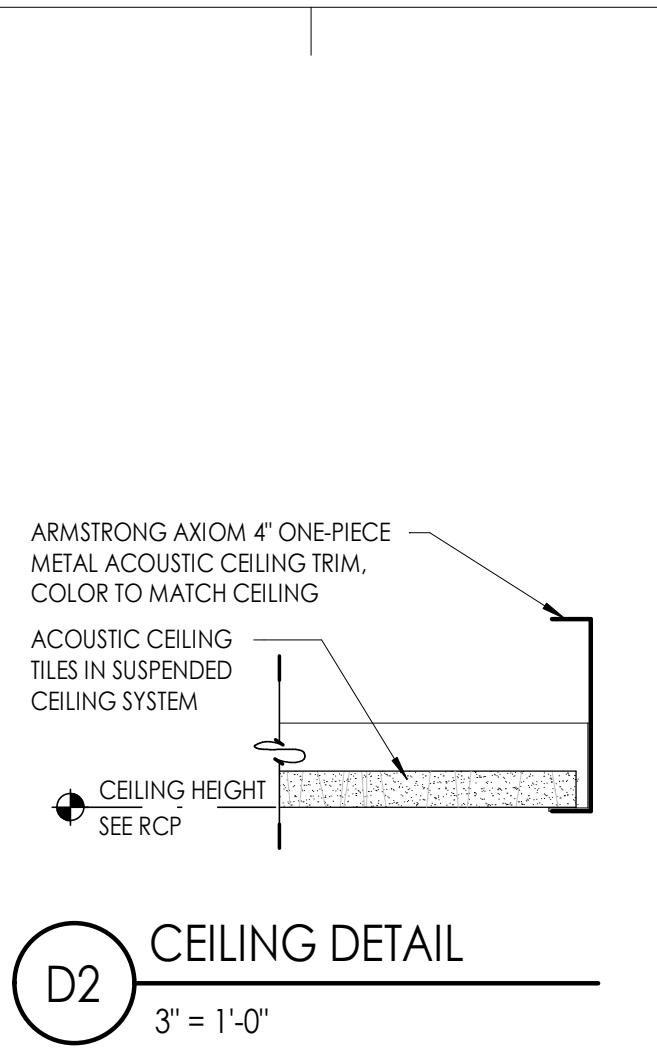
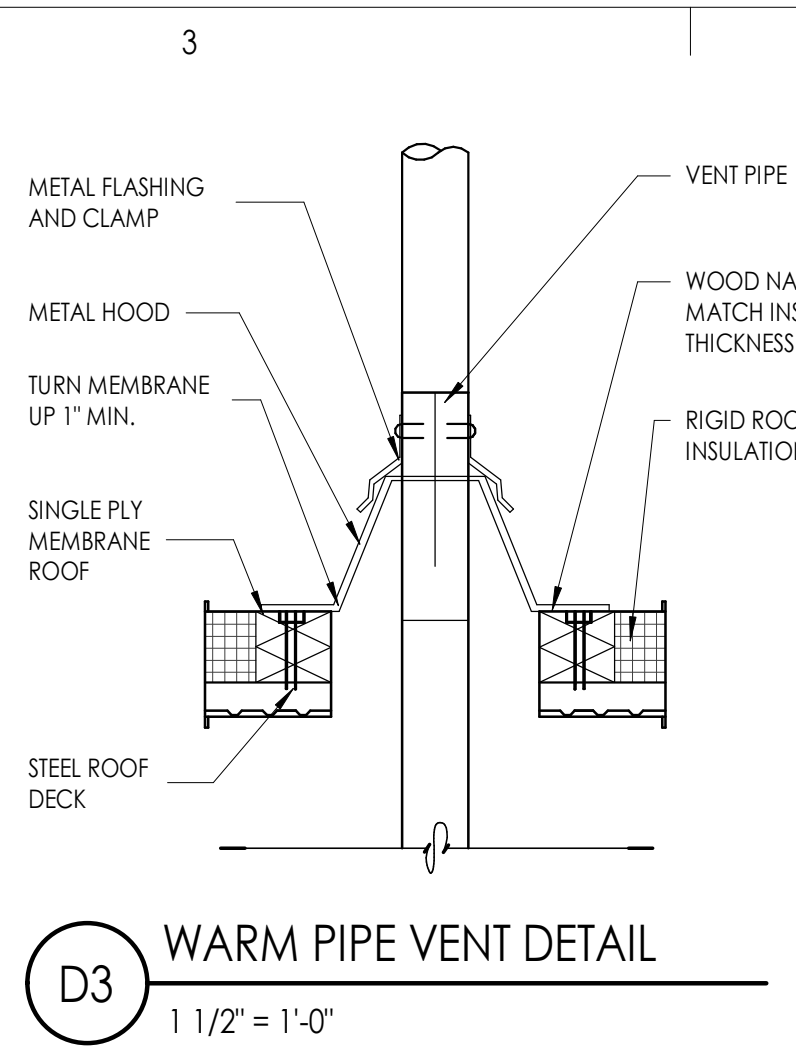
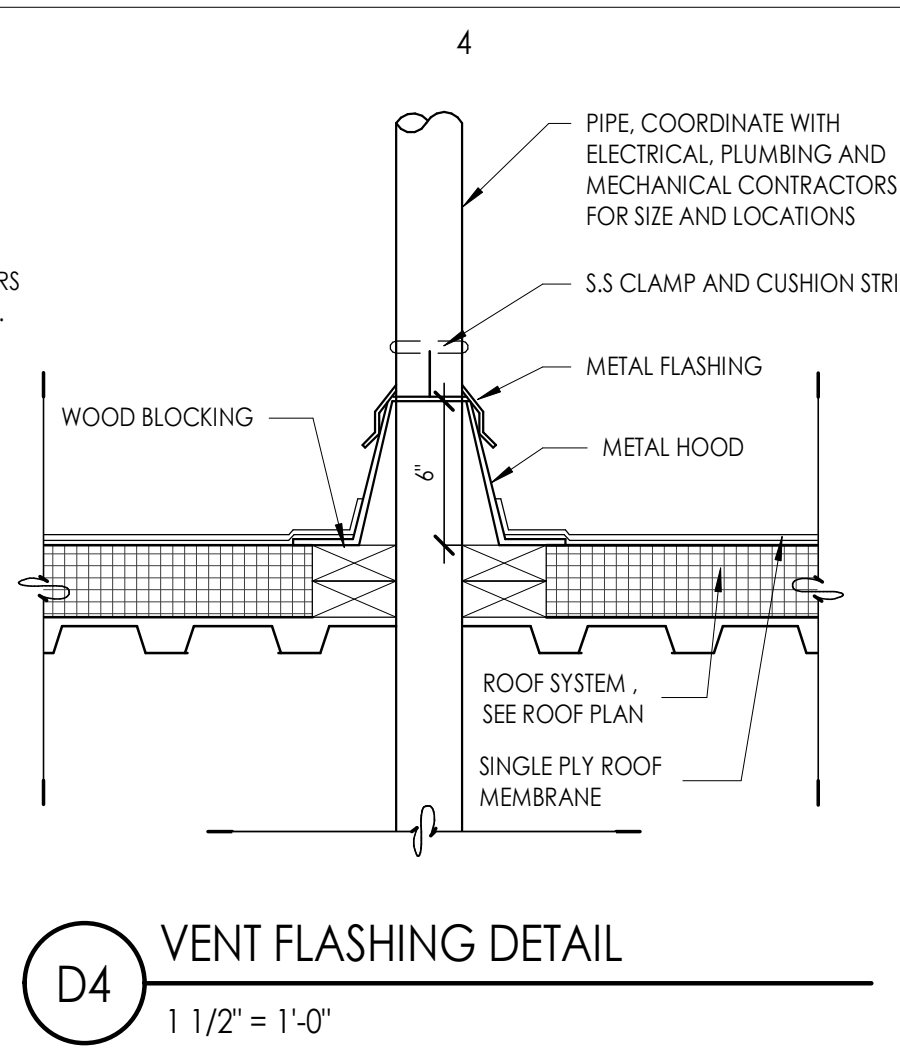
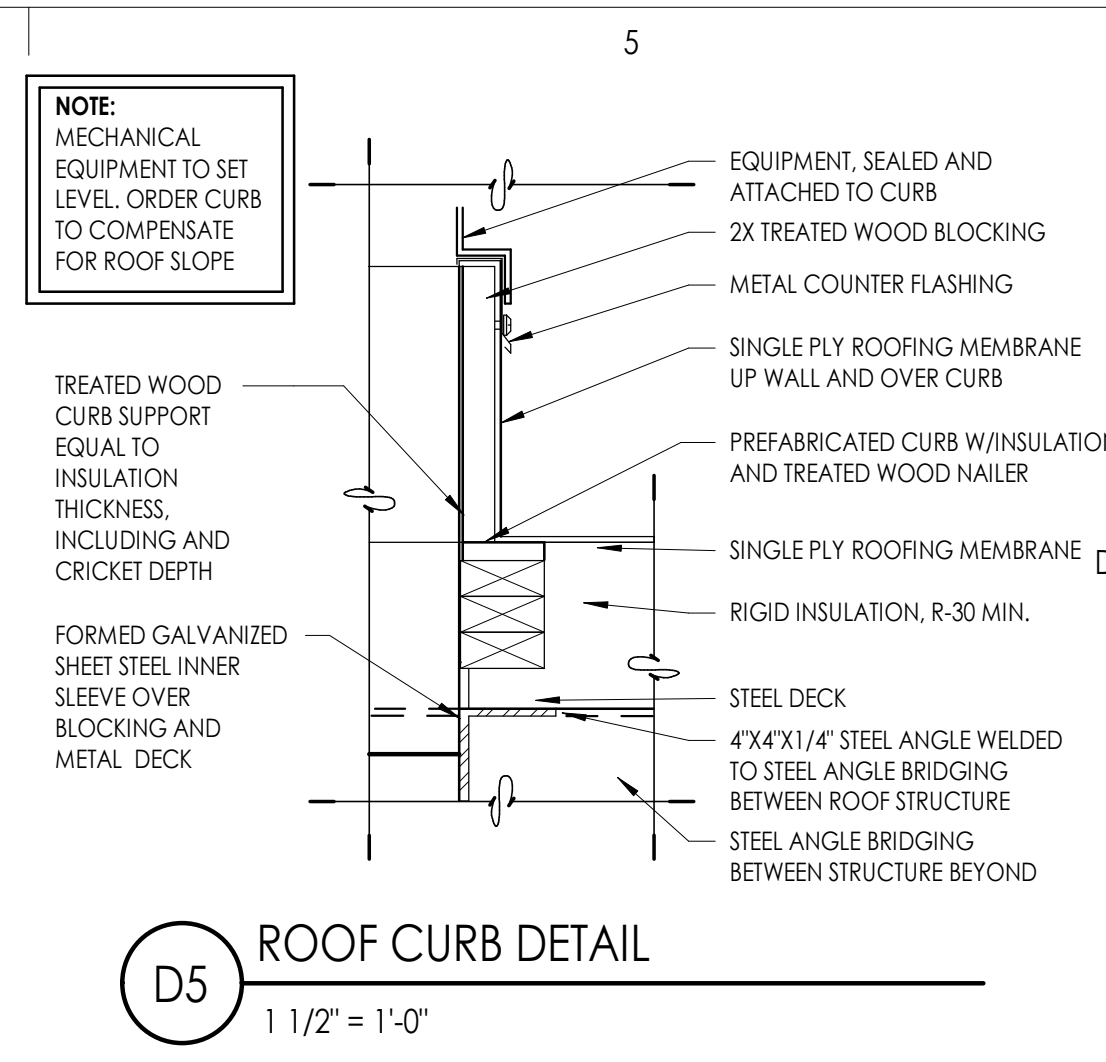
Revision

No.	Date	Description

DFCM Project No. 22400240
SAA Project No. 2021-57
Drawing Title

CEILING DETAILS & PLAN DETAILS

Sheet Number
AE541



D
C
B
A

DFCM approval

1
2
3
4
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1
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5

ARMSTRONG AXIOM 4\"/>

NOTE:
MECHANICAL EQUIPMENT TO SET LEVEL. ORDER CURB TO COMPENSATE FOR ROOF SLOPE.

PIPE, COORDINATE WITH ELECTRICAL, PLUMBING AND MECHANICAL CONTRACTORS FOR SIZE AND LOCATIONS.
S.S. CLAMP AND CUSHION STRIP

EQUIPMENT, SEALED AND ATTACHED TO CURB
2X TREATED WOOD BLOCKING
METAL COUNTER FLASHING
SINGLE PLY ROOFING MEMBRANE UP WALL AND OVER CURB
PREFABRICATED CURB W/INSULATION AND TREATED WOOD NAILER
SINGLE PLY ROOFING MEMBRANE
RIGID INSULATION, R-30 MIN.
STEEL DECK
4\"/>

D2 CEILING DETAIL
3\"/>

D3 WARM PIPE VENT DETAIL
1 1/2\"/>

D4 VENT FLASHING DETAIL
1 1/2\"/>

D5 ROOF CURB DETAIL
1 1/2\"/>

C3 OPERABLE PARTITION HEAD DETAIL
3\"/>

C4 OPERABLE PARTITION DETAIL
3\"/>

C5 OPERABLE PARTITION FIXED END DETAIL
3\"/>

B2 PLAN DETAIL
3\"/>

SPLAY WIRE BRACING SHALL BE CLUSTERS OF FOUR 12 GAUGE WIRES ATTACHED TO THE MAIN BEAM WITHIN 2\"/>

2 GAUGE HANGER WIRES @ 4\"/>

7/8\"/>

NOTE: SPECIAL INSPECTION REQUIRED FOR MOUNTING CLIPS AND SUSPENDED CEILING SYSTEM REFER TO SPECIAL INSPECTION LIST.

UNATTACHED ENDS OF GRID MUST HAVE 3/4\"/>

Project Name

Issued No.	Date	Description

Revision

No.	Date	Description
2	02.27.2022	OWNER UPDATES

DFCM Project No. 22400240
 SAA Project No. 2021-57
 Drawing Title

DOOR SCHEDULE, FRAME TYPES, & OPENING DETAILS

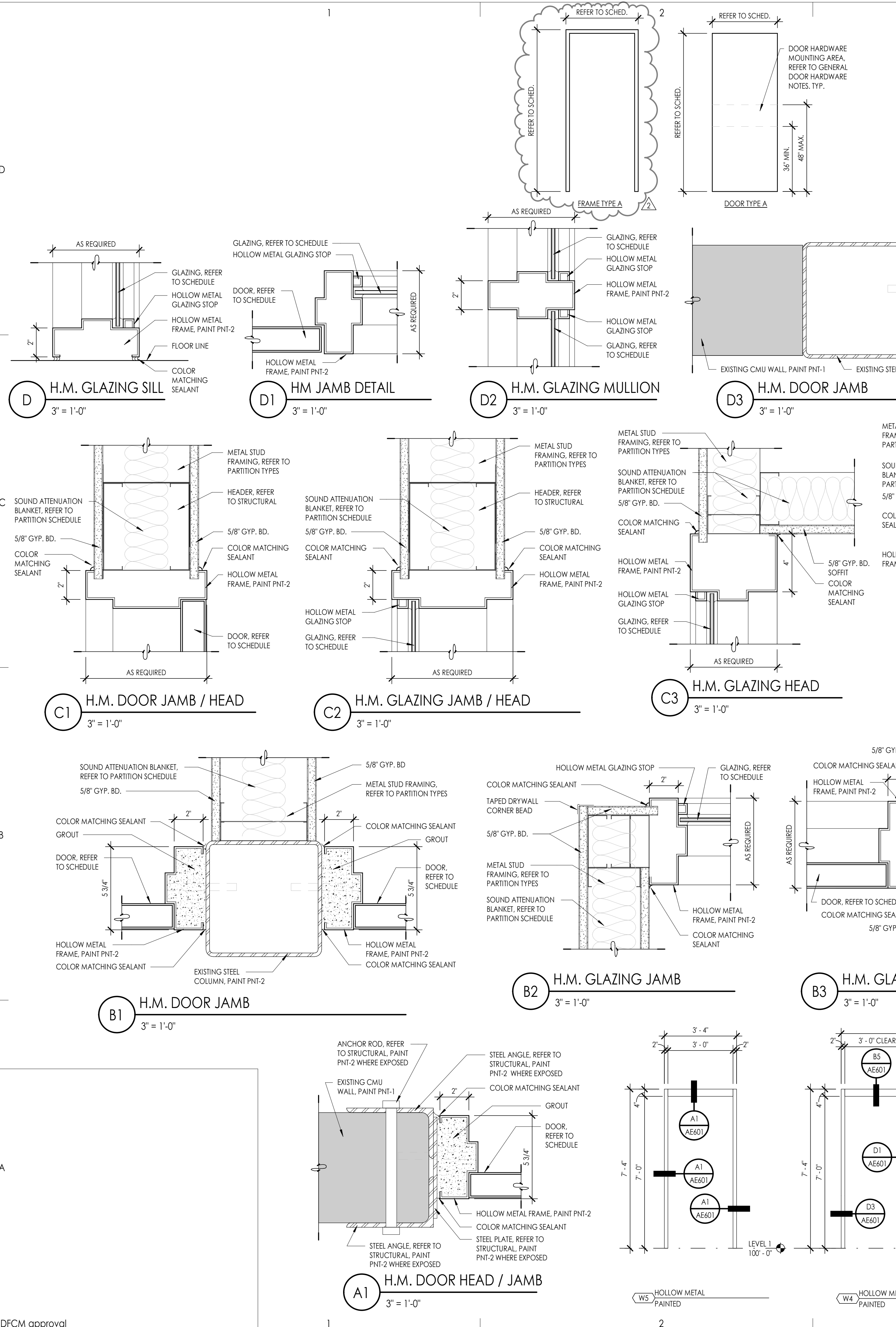
Sheet Number

AE601

PANEL SCHEDULE			DOOR SCHEDULE																				
MARK	GLASS TYPE	COMMENTS	DOOR #	ROOM NAME	DOOR TYPE	WIDTH	HEIGHT	THICK	MTRL	FINISH	GLAZE	FRAME TYPE	MTRL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	ELECTRIC DEVICE	HRDWR. GROUP	FIRE RATING	COMMENTS	DOOR #	
GL-1	1/4" CLEAR	SEE SPEC.	112-A	LAB	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W4	HM	PNT-2	-	-	-	-	-	2.0	-	-	112-A
GL-2	1/4" CLEAR - TEMPERED	SEE SPEC.	112-B	LAB	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W5	HM	PNT-2	-	-	-	-	-	1.0	-	-	112-B
			112C-A	CLASSROOM	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W1	HM	PNT-2	-	-	-	-	-	1.0	-	-	112C-A
			112C-B	CLASSROOM	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W3	HM	PNT-2	-	-	-	-	-	1.0	-	-	112C-B
			112D-A	CLASSROOM	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W2	HM	PNT-2	-	-	-	-	-	1.0	-	-	112D-A
			112D-B	CLASSROOM	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W3 REV.	HM	PNT-2	-	-	-	-	-	1.0	-	-	112D-B
			112E-A	CLASSROOM	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W2 REV.	HM	PNT-2	-	-	-	-	-	1.0	-	-	112E-A
			112E-B	CLASSROOM	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W3	HM	PNT-2	-	-	-	-	-	1.0	-	-	112E-B
			112F-A	CLASSROOM	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W1	HM	PNT-2	-	-	-	-	-	1.0	-	-	112F-A
			112F-B	CLASSROOM	A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	W3 REV.	HM	PNT-2	-	-	-	-	-	1.0	-	-	112F-B
			115-A	ELECTRICAL LAB	EXIST.	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	EXIST.	HM	PNT-2	-	-	-	-	-	3.0	-	-	115-A
			115A-A	STORAGE	EXIST.	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	EXIST.	HM	PNT-2	-	-	-	-	-	3.0	-	-	115A-A
			11-A		A	3'-0"	7'-0"	1 3/4"	HM	PNT-2	-	A	HM	PNT-2	-	-	-	-	-	-	-	-	11-A

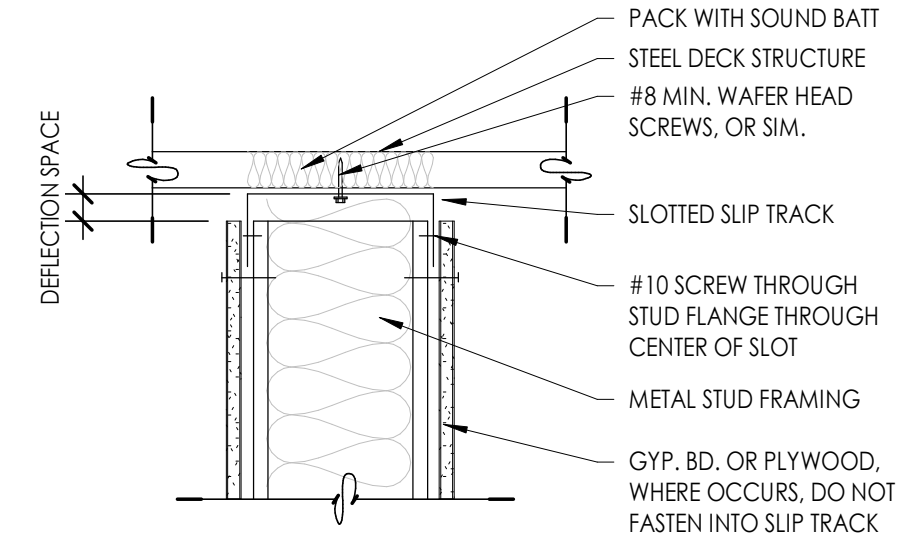
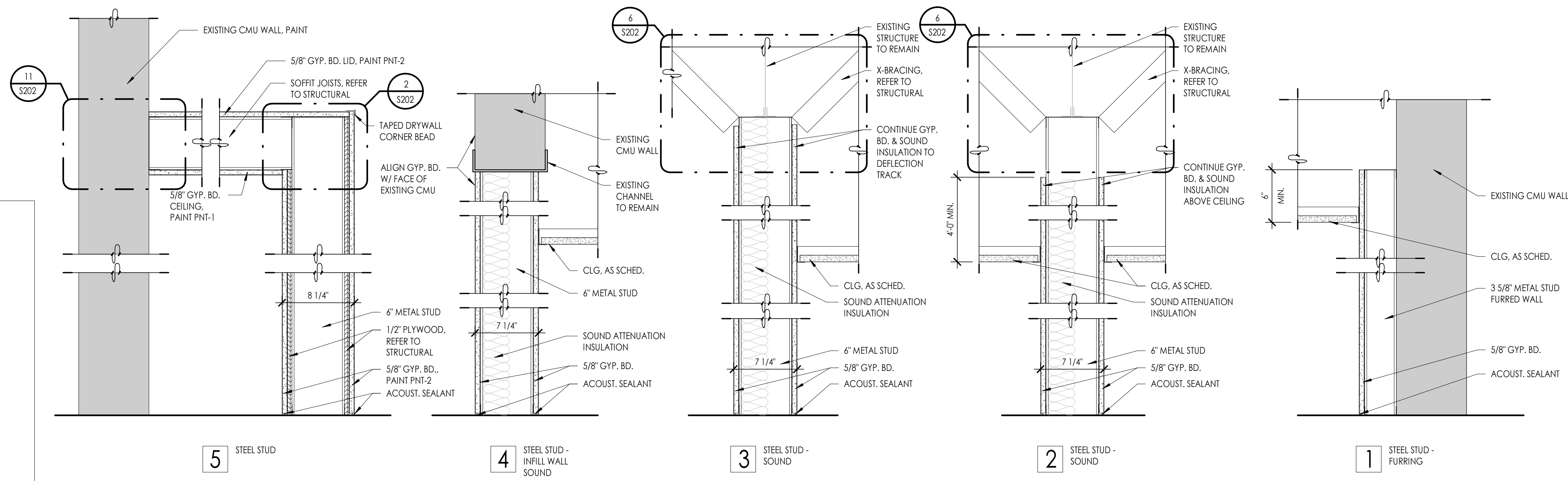
GENERAL DOOR HARDWARE NOTES

- ALL LOCKS, DOOR HANDLES, PULLS, LATCHES, OR OTHER OPERATING HARDWARE IS REQUIRED TO BE LOCATED BETWEEN 36 AND 48 INCHES A.F.F. PER IBC 1010.1.9.2.
- HARDWARE SHALL NOT REQUIRE PINCHING, TIGHT GRASPING, OR TWISTING OF THE WRIST TO OPERATE PER IBC 1010.1.9.1.

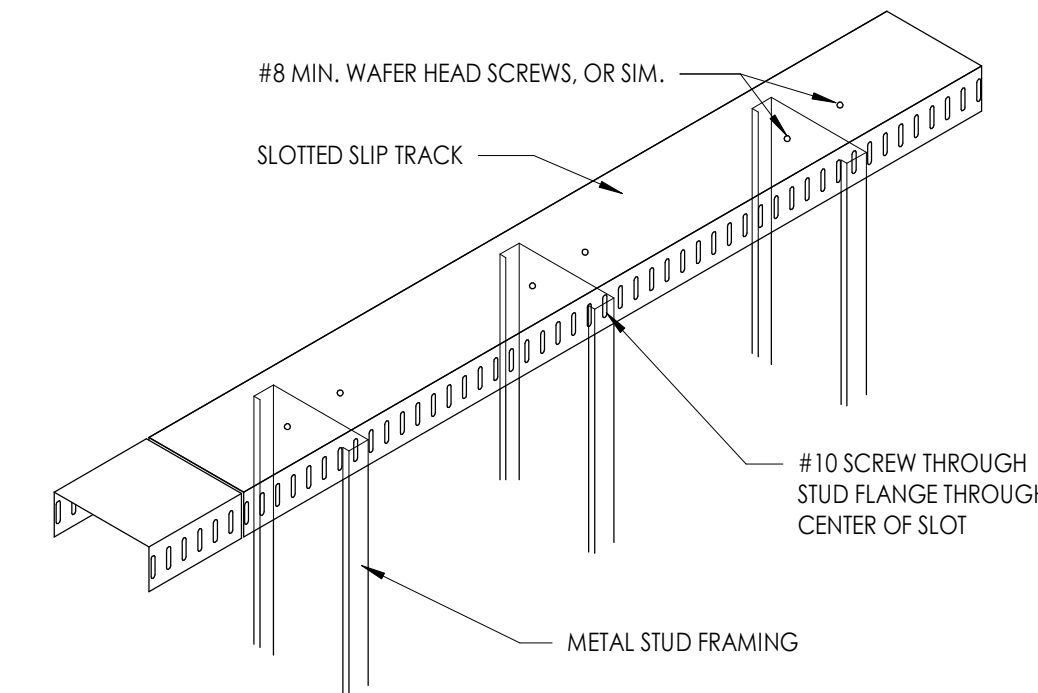


INTERIOR FINISH LEGEND						
CODE	MATERIAL	MANUFACTURER	PRODUCT	COLOR/FINISH	SIZE	COMMENTS
CONCRETE						
SC-1	POLISHED SEALED CONCRETE	ADVANCED FLOOR PRODUCTS	RETROPLATE 99			SEE SPEC. 033543
CARPET TILE						
CPT-1	CARPET TILE	SHAW	SURROUND STRATAWORK 51421	STORM CLOUD 17597	2' X 2'	
BASE						
RB-1	RUBBER BASE	ROPPE	700 SERIES TYPE TP	193 BLACK BROWN	4"	
PAINT						
PNT-1	FIELD PAINT	SHERWIN WILLIAMS	SW7008 ALABASTER (255-C2)	EGGSHELL		
PNT-2	ACCENT PAINT	SHERWIN WILLIAMS	SW7069 IRON ORE (251-C7)	EGGSHELL		STEEL COLUMNS & BEAMS, HOLLOW METAL DOORS & FRAMES
PNT-3	ACCENT PAINT	SHERWIN WILLIAMS	SW6314 LUXURIOUS RED (112-C7)	EGGSHELL		
PNT-4	FIELD PAINT	SHERWIN WILLIAMS	SW7029 AGREEABLE GRAY (243-C1)	EGGSHELL		
PNT-5	FLOOR PAINT	SHERWIN WILLIAMS	SW6314 LUXURIOUS RED (112-C7)			SEE SPEC. 099123
ACOUSTIC CEILING						
AC-1	ACOUSTIC CEILING TILES	CERTAINTED	CASHMERE TEGULAR MINERAL FIBER CEILING	WHITE	2' X 4'	STANDARD METAL SUSPENSION
AC-2	ACOUSTIC CEILING TILES	CERTAINTED	CASHMERE TEGULAR MINERAL FIBER CEILING	WHITE	2' X 2'	STANDARD METAL SUSPENSION

ROOM FINISH SCHEDULE											
NO.	NAME	FLOOR	BASE FINISH	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING FINISH	CASEWORK COUNTER	CASEWORK CABINET	NO.
102	CLASSROOM	CPT-1	RB-1	-	-	MATCH EXISTING	MATCH EXISTING	AC-2	EXISTING	EXISTING	102
112	LAB	EXISTING	RB-1	PNT-1	PNT-1	PNT-1 / PNT-2	PNT-1 / PNT-2	PNT-1	-	-	112
112C	CLASSROOM	EXISTING	RB-1	PNT-4	PNT-4	PNT-4	PNT-4	AC-1	-	-	112C
112D	CLASSROOM	EXISTING	RB-1	PNT-4 / PNT-3	PNT-4	PNT-4 / PNT-3	PNT-4	AC-1	-	-	112D
112E	CLASSROOM	EXISTING	RB-1	PNT-4	PNT-4	PNT-4 / PNT-3	PNT-4	AC-1	-	-	112E
112F	CLASSROOM	EXISTING	RB-1	PNT-4	PNT-4	PNT-4 / PNT-3	PNT-4	AC-1	-	-	112F
115	ELECTRICAL LAB	SC-1	PNT-5	PNT-1	PNT-1	PNT-1 / PNT-3	PNT-1 / PNT-2	PNT-1	-	-	115
115A	STORAGE	SC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1 / PNT-2	PNT-1	-	-	115A



D4 SLIP TRACK DETAIL
1 1/2" = 1'-0"



C4 SLIP TRACK ISOMETRIC DETAIL
3/4" = 1'-0"

NON-BEARING METAL STUD GAUGE		
MEMBER DEPTH	STUD HEIGHT	MIN. GA. & SPACING
2-1/2" (200S125-33)	14'-0"	20@16" O.C. (Composite)
3-5/8" (362S125-33)	17'-0"	20@16" O.C. (Composite)
3-5/8" (362S125-43)	17'-0"	18@16" O.C. (Fully Braced)
6" (600S162-33)	15'-0"	20@16" O.C. w/ Bridging Mid Span
6" (600S162-33)	18'-0"	20@16" O.C. w/ Bridging 5' O.C.
6" (600S162-43)	23'-0"	18@16" O.C. w/ Bridging 5' O.C.
6" (600S162-54-50KSI)	30'-0"	16@16" O.C. w/ Bridging 5' O.C.

- STEEL STUDS SHALL MEET ICC REPORT ESR-3064P AND SSMA STANDARDS HEIGHT BASED ON SSMA 2015 CATALOG AND PROJECT REQUIREMENTS
- SEE SCHEDULE FOR STUD SPACING AND GAUGE. ALL STUDS AND BRACES SHALL BE 33 KSI UNLESS NOTED OTHERWISE IN THESE DRAWINGS
- AT ALL DOORS PROVIDE TWO TABBED 18 GAUGE STUDS AT BOTH SIDES

NON-BEARING HEADER SCHEDULE (16'-0" AFF)				
MAX. SPAN	HEADER STUDS	3 5/8" TRACKS	6" TRACKS	6" WALL TUBE STEEL OPTION
7'-0"	(2) 362S162-33	(2) 362T150-33	(2) 600T150-33	HSS 6 x 6 x 1/8
10'-0"	(2) 400S162-33	(2) 362T150-43	(2) 600T150-33	HSS 6 x 6 x 1/8
11'-0"	(2) 400S162-43	(2) 362T150-43	(2) 600T150-33	HSS 6 x 6 x 1/8
14'-0"	(2) 800S162-54	(2) 362T150-97	(2) 600T150-43	HSS 6 x 6 x 1/8
16'-0"	(2) 1000S162-54	(2) 362T150-97	(2) 600T150-54	HSS 6 x 6 x 1/8
19'-0"	(2) 1000S250-68	-	(2) 600T150-68	HSS 8 x 6 x 3/16
21'-0"	-	-	-	HSS 10 x 6 x 3/16
25'-0"	-	-	-	HSS 12 x 6 x 3/16
27'-0"	-	-	-	HSS 12 x 6 x 1/4

- SCHEDULE TO BE USED FOR NON-BEARING WALLS, (16'-0" +/- AFF)
- HEADERS TO BE CONSTRUCTED AS BOX HEADERS PER SSMA

NON-BEARING HEADER SCHEDULE (30'-0" AFF)				
MAX. SPAN	HEADER STUDS	3 5/8" TRACKS	6" TRACKS	6" WALL TUBE STEEL OPTION
4'-0"	(2) 362S162-33	(2) 362T150-33	(2) 600T150-33	HSS 3.5x3.5x1/8
7'-0"	(2) 400S162-33	(2) 362T150-33	(2) 600T150-33	HSS 3.5x3.5x1/8
9'-0"	(2) 400S162-43	(2) 362T150-43	(2) 600T150-33	HSS 3.5x3.5x1/4
10'-0"	(2) 800S162-54	(2) 362T150-54	(2) 600T150-43	HSS 3.5x3.5x3/8
12'-0"	(2) 1000S162-54	(2) 362T150-97	(2) 600T150-54	HSS 3.5x3.5x1/6
15'-0"	(2) 1000S250-68	-	(2) 600T150-68	HSS 7x6x5/16
17'-0"	-	-	-	HSS 8x6x3/8
19'-0"	-	-	-	HSS 10x6x3/16
21'-0"	-	-	-	HSS 10x6x3/16
25'-0"	-	-	-	HSS 12x6x3/16
27'-0"	-	-	-	HSS 12x6x1/4

- SCHEDULE TO BE USED FOR NON-BEARING WALLS, (30'-0" +/- AFF)
- HEADERS TO BE CONSTRUCTED AS BOX HEADERS PER SSMA

PARTITION NOTES

- PARTITION TYPE INDICATIONS ARE INDEPENDENT OF APPLIED FINISHES. SEE THE FINISH SHEET AND INTERIOR ELEVATIONS FOR WALL FINISHES AND ON PLANS FOR ADDITIONAL FOR INFORMATION REGARDING APPLIED FINISHES
- WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL, THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING WALL
- AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE UNLESS NOTED OTHERWISE.
- WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEETS FOR FINISHES. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING, GLAZING PARTITIONS, ETC. CONSTRUCTION ABOVE INTERRUPTION IS TO BE THE SAME AS THAT DESIGNATION FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED
- THE MINIMUM REQUIREMENTS FOR THE CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT, HOWEVER ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO: USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE. USE 3/8" O.C. MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MAX SPACING ALLOWED IN THESE DOCUMENTS. USE STUDS OF GAUGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAUGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAUGE TESTED. 20 GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS
- USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO THE CONSTRUCTION OF CONCRETE, MASONRY, AND STUD WALLS.
- PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS.
- ALL DIMENSIONS ARE FACE OF STUD OR FACE OF CONCRETE, MASONRY, OR ROUGH OPENING UNLESS OTHERWISE NOTED
- ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET, THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED OTHERWISE
- PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PLASTER OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING. INSTALL PER DETAILS FOR CONTROL JOINTS.
- AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/8" JOINT AT ALL SIDES. MAXIMUM THE OPENING FOR THE DUCTS OR LARGER PENETRATIONS SHALL BE FRAMES WITH A HEADER. ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM THE FRAMING
- CONTRACTOR TO PROVIDE BLOCKING/BACKING FOR ALL WALL MOUNTED EQUIPMENT. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS, ETC., INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT TREATED.
- WHERE THERE IS LIMITED WATER EXPOSURE: INSTALL ONE LAYER OF 5/8" TYPE X WATER RESISTANT GYPSUM BOARD PER ASTM C 1396 (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION AT THE FOLLOWING: A. WITH IN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITORS SHEETS. B. AT OTHER LOCATIONS I.E. TOILET ROOMS AND KITCHEN, AND AS INDICATED ON THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
- INSTALL ONE LAYER OF 5/8" GYPSUM GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS PARTITIONS AT THE FOLLOWING LOCATIONS: A. AT WET LOCATIONS, SUCH AS SHOWER STALLS AND TUB SURROUNDS. B. WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND /OR INTERIOR ELEVATIONS. C. AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.



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ELECTRICAL PROGRAM RELOCATION
Ogden Weber Technical College
200 N. Washington Blvd.
Ogden, Utah 84404

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DFCM Project No. 22400240
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FINISH SCHEDULE & PARTITION TYPES

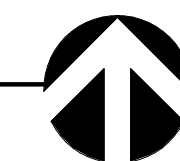
Sheet Number
AE661

ALTERNATE ROOM FINISH SCHEDULE								
NAME	ALTERNATE	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING FINISH
EXISTING ROOM TYPE 1	ALTERNATE #1	CPT-1	RB-1	PNT-4	PNT-4	PNT-4	PNT-4	EXISTING TO REMAIN
EXISTING ROOM TYPE 2	ALTERNATE #1	EXISTING TO REMAIN	EXISTING TO REMAIN	PNT-4	PNT-4	PNT-4	PNT-4	EXISTING TO REMAIN
EXISTING ROOM TYPE 3	ALTERNATE #1	POLISHED CONCRETE	RB-1	PNT-4	PNT-4	PNT-4	PNT-4	EXISTING TO REMAIN
EXISTING LAB	ALTERNATE #2	EXISTING TO REMAIN	EXISTING TO REMAIN	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1



LEVEL 1 ALTERNATE FINISH PLAN

3/32" = 1'-0"



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ELECTRICAL PROGRAM RELOCATION

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Drawing Title

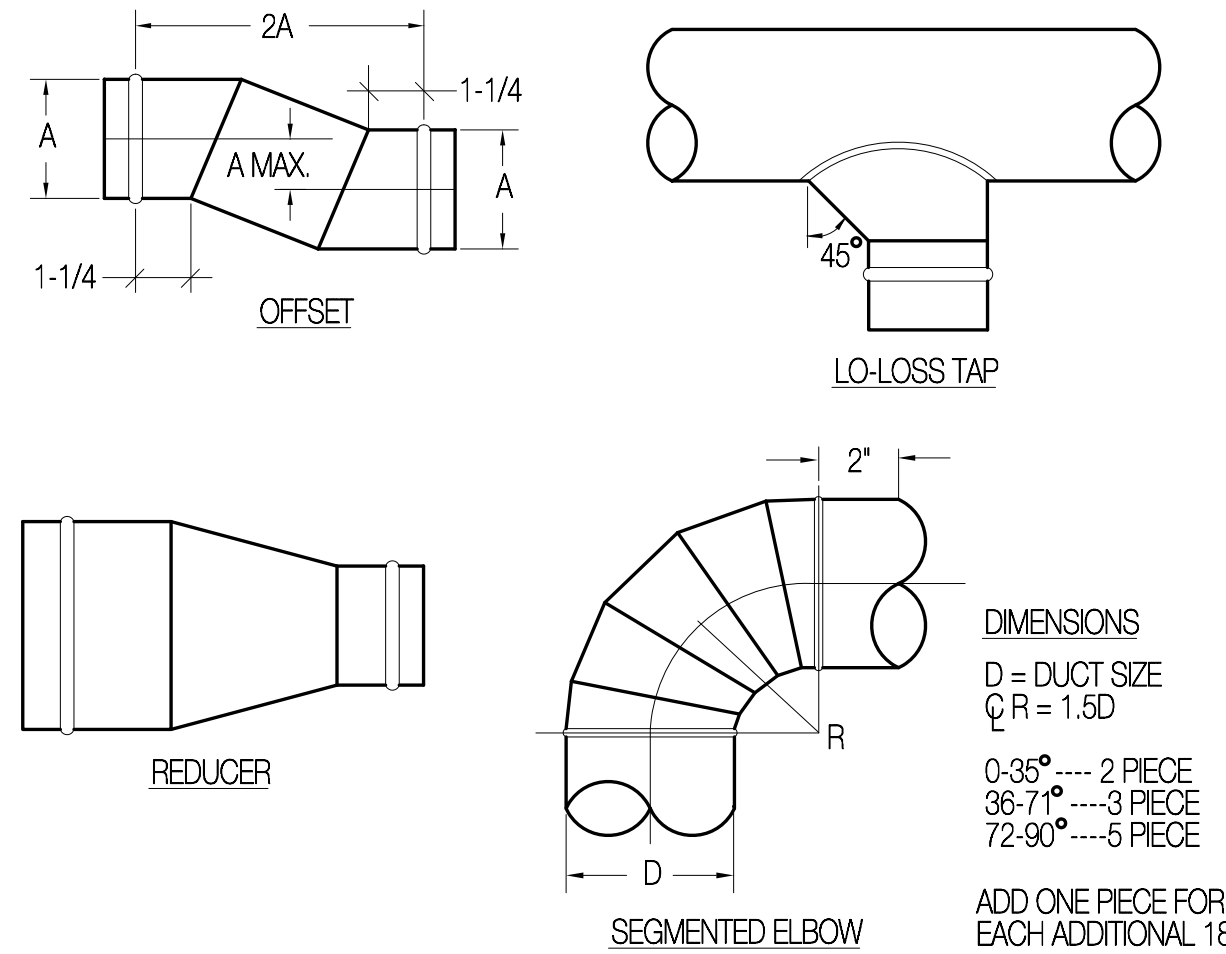
ALTERNATE FINISH PLAN & SCHEDULE

Sheet Number

AE662

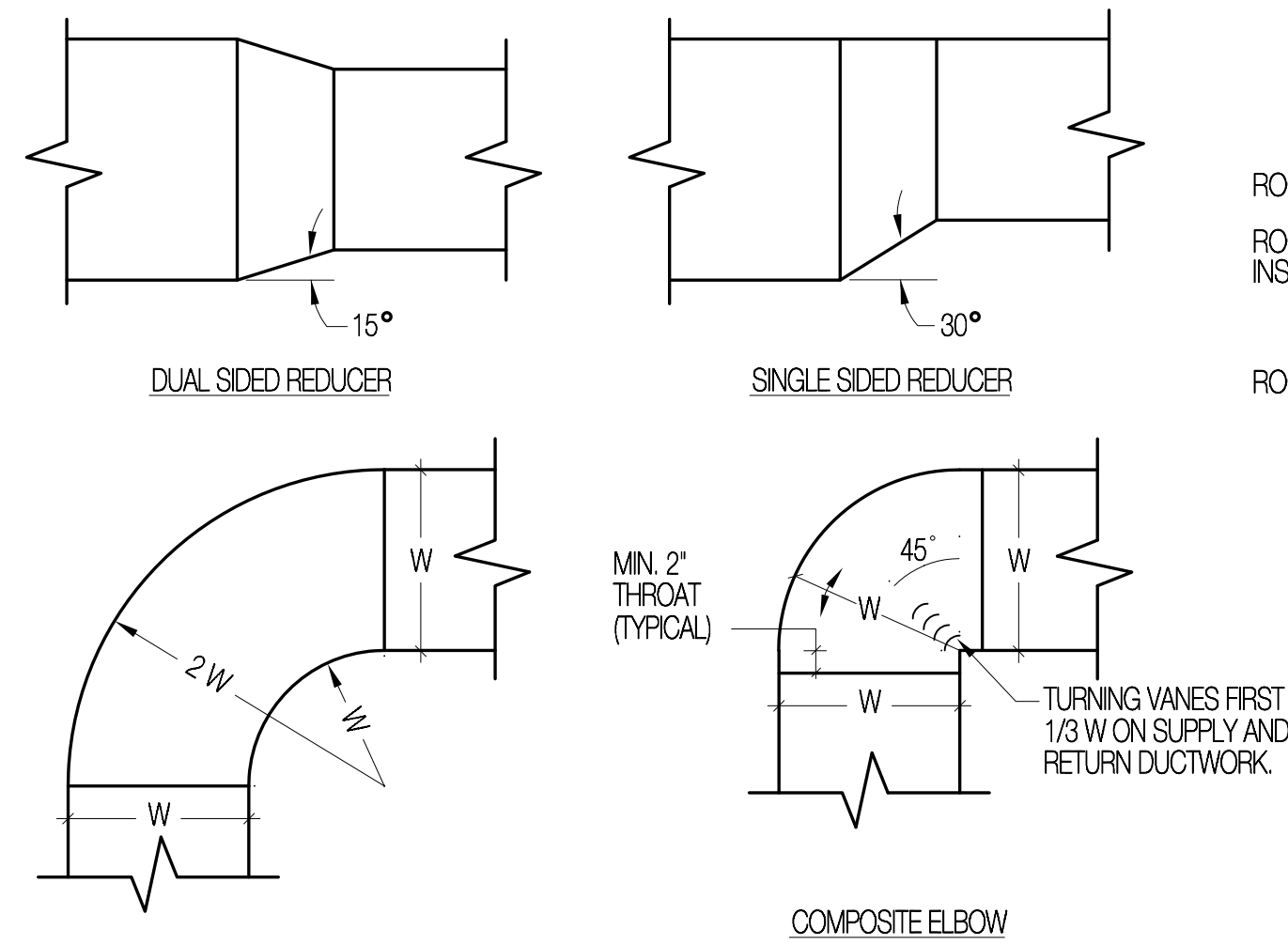
GENERAL NOTES

- ALL DRAWINGS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL ASPECTS OF THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING PRICING. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ANY INSTALLATION SUCH THAT CLARIFICATIONS CAN BE ISSUED.
- ANY WORK PERFORMED OR MATERIAL USED WHICH IS SHOWN TO BE IN CONFLICT WITH THE CONTRACT DRAWINGS, SPECIFICATIONS OR ANY APPLICABLE CODE OR GOVERNING REGULATION SHALL BE REMOVED AND REPLACED OR CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE CONTRACT DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH ANY WORK.
- DO NOT SCALE THE DRAWINGS. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO FABRICATION OF MATERIALS OR ERECTION OF ASSEMBLIES. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT, TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETION OF THE WORK. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE DONE IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND GOVERNING REGULATIONS.
- ALL PERMITS AND FEES WHICH ARE REQUIRED FOR THIS WORK SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR.
- ALL PLUMBING AND MECHANICAL INSTALLATIONS SHALL ADHERE TO THE 2018 IBC INCLUDING: MINIMUM R-6 INSULATION ON ALL NON-ACOUSTICALLY LINED DUCTWORK; ACOUSTICAL LINER SHALL PROVIDE A MINIMUM OF R-6 INSULATING VALUE. ALL DOMESTIC WATER PIPING SHALL BE INSULATED WITH A MINIMUM 1" FIBERGLASS INSULATION.



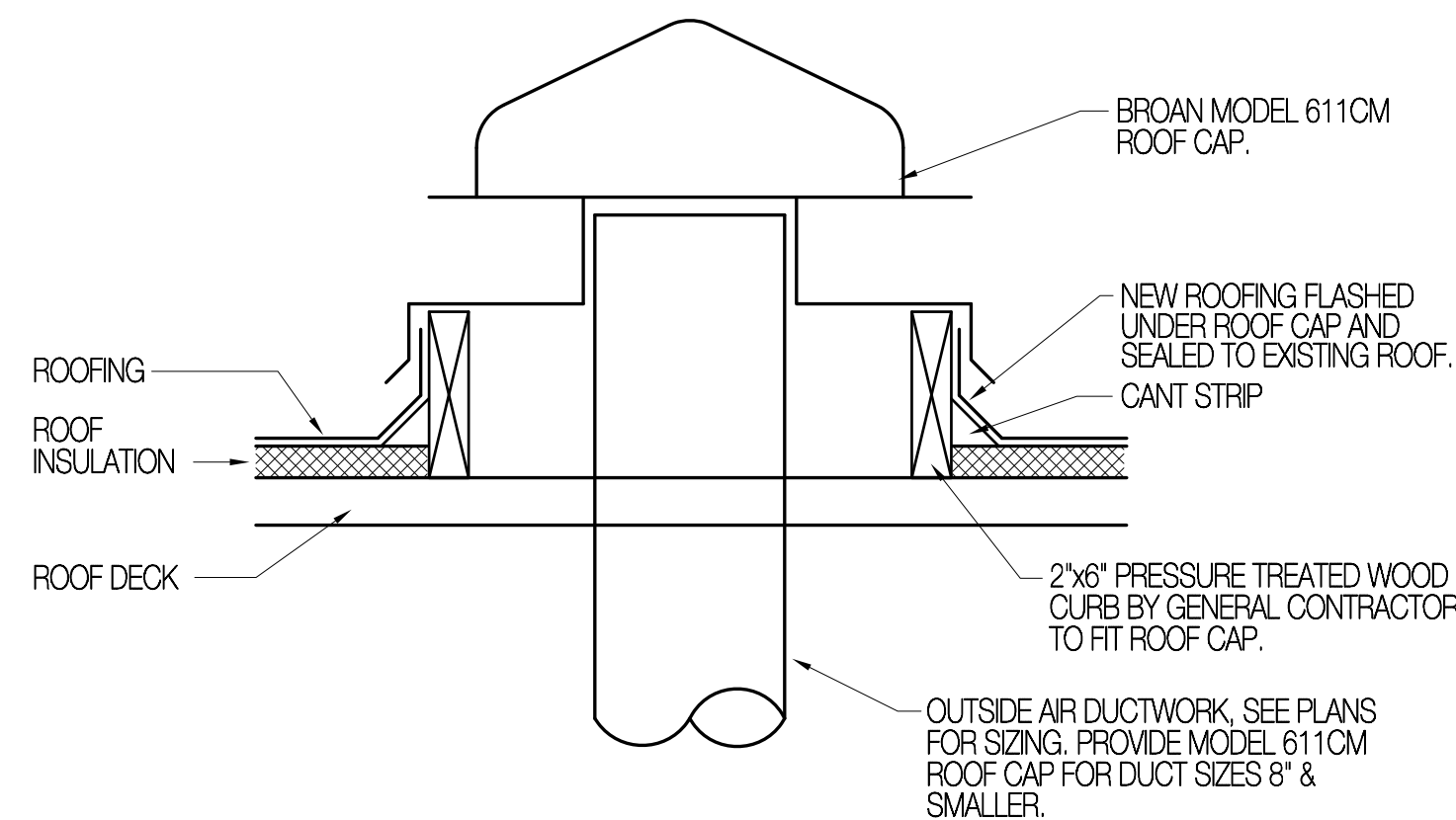
1 WALL BRACKET DETAIL
SCALE: NONE

4 ROUND DUCT FITTINGS
SCALE: NONE

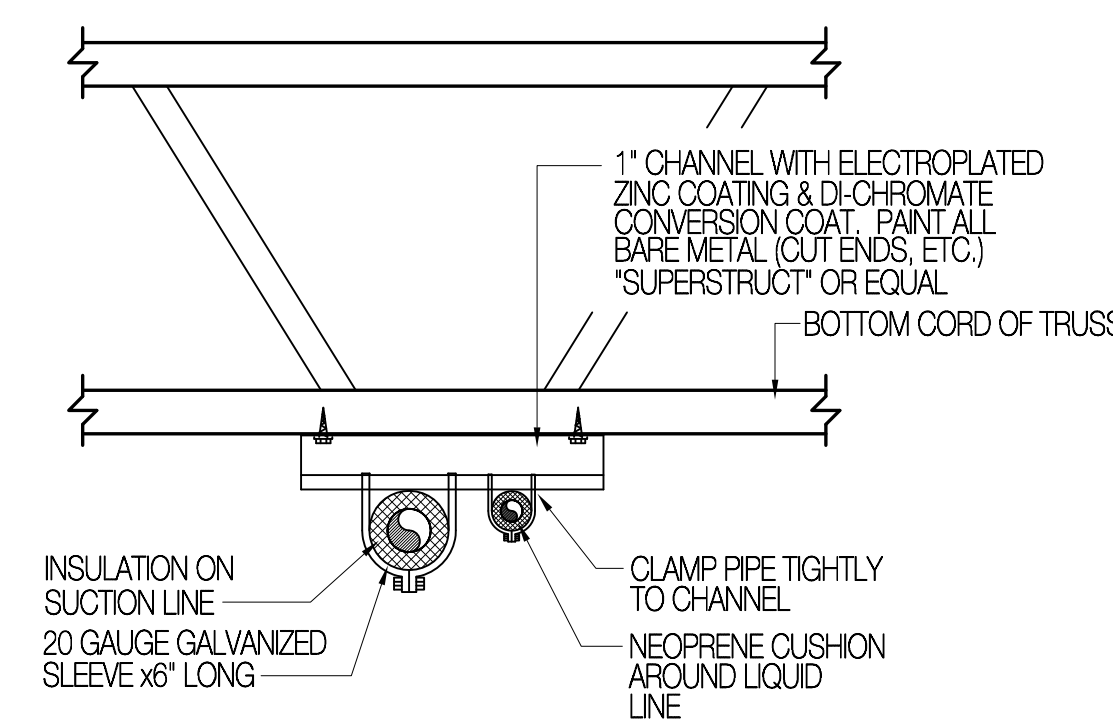


5 RECTANGULAR DUCT FITTINGS
SCALE: NONE

NOTES:
MITERED RECTANGULAR ELBOWS WITH FULL TURNING VANES NOT ALLOWED.



2 O.A. ROOF CAP DETAIL
SCALE: NONE



3 REFRIGERANT PIPING SUPPORT FROM JOIST DETAIL
SCALE: NONE

AIR HANDLING UNIT (AHU)

SYMBOL	MIN. CFM	MIN. E.S.P. IN. WG.	FAN TYPE	FAN ELEC. REQ.		HEATING COIL (2 FLOW / 12 FPI)				FILTER BOX		MIXING BOX DAMPER (OPPOSED BLADE)		REMARKS
				V / PH. / HZ.	HP.	TOT. CAP. (BTUH)	FLUID TEMP. ENT. / LEAV.	AIR TEMP. ENT. / LEAV.	GPM	FLUID P.D. (FT. WC.)	TYPE	FILTER	LOC.	
AHU-1	5,000	0.55"	FC	460/3/60	3.0	234,750	180 F / 160 F	55 F / 63 F	24.8	2.0	ANGULAR 4" - MERV 11	O.A. / R.A.	12" H x 40" W	(1)(2)(3)

① DOUBLE WALL CONSTRUCTION ② CONTROL BOX WITH MOTOR STARTER ③ OPTIONAL MIXING BOX

SEE SPECIFICATION SECTION 239550 FOR ADDITIONAL INFORMATION.

SYSTEM HEATING WATER PUMP (SHWP)

SYMBOL	GPM	FEET HEAD	SHUT-OFF HEAD	ELEC. REQUIREMENTS			DUTY	TYPE	BELL & GOSSETT MODEL	REMARKS	
				VOLTS	PH.	HZ.					
SHWP-1	25	25'	45'	208	1	60	1/2	HEATING WATER	INLINE	EC000RC XL 55-45	

SEE SPECIFICATION SECTION 239550 FOR ADDITIONAL INFORMATION.

SPLIT HEAT PUMPS

INDOOR SECTION (FCU)

SYMBOL	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH) ③	CFM HIGH SPEED	ELECTRICAL REQUIREMENTS					MITSUBISHI MODEL	REMARKS
				VOLTS	PH.	HZ.	AMPS	MOCP		
FCU-1	9,000	10,700	270	208	1	60	< 1.0	15	SLZ-KF09NA	(1)(2)(3)
FCU-2	9,000	10,700	270	208	1	60	< 1.0	15	SLZ-KF09NA	(1)(2)(3)

CAPACITIES AT JOB SITE ELEVATION OF 4,500 FEET ABOVE SEA LEVEL. ③ HEATING CAPACITY AT 5 F °

② PROVIDE WITH MANUFACTURERS INLINE CONDENSATE PUMP.

OUTDOOR SECTION (HP)

SYMBOL	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	SUMMER ENT. OUTSIDE AIR DB°F	WINTER ENT. OUTSIDE AIR DB°F	ELECTRICAL REQUIREMENTS					MITSUBISHI MODEL	REMARKS
					VOLTS	PH.	HZ.	MCA	MOCP		
HP-1	18,000	11,100	95 F	5 F	208	1	60	17.2	20	MXZ-2C20NA2	

CAPACITIES AT JOB SITE ELEVATION OF 4,500 FEET ABOVE SEA LEVEL.

ROOFTOP HEAT PUMP (RHP)

SYMBOL	COOLING SECTION		HEATING CAPACITY @ 17 F °		FAN SECTION			COND. COIL AREA (SQ. FT.)	COND. COIL CFM	AMB. AIR TEMP.	MIN. EER	UNIT ELEC. REQUIREMENTS					YORK MODEL	REMARKS
	TOTAL CAP. (BTUH)	SENS. CAP. (BTUH)	HP CAP. (BTUH)	COP @ CAPACITY	CFM	E.S.P. (IN. WC.)	MOTOR HP					VOLTS	PH.	HZ.	MCA	MOCP		
RHP-1	83,100	71,800	43,000	2.25	2,400	1.2	3.0	29.0	6,800	95 F	11.2	460	3	60	23.6	30	XP078	(1)(2)(3)(4)(5)(6)
RHP-2	83,100	71,800	43,000	2.25	2,400	1.2	3.0	29.0	6,800	95 F	11.2	460	3	60	23.6	30	XP078	(1)(2)(3)(4)(5)(6)

① CAPACITY REQUIRED AT SITE ELEVATION AND CONDITIONS. ④ BELT DRIVE
 ② PROVIDE UNIT WITH 120 V CONVENIENCE OUTLET. ⑤ PROVIDE UNIT WITH RETURN AIR SMOKE DETECTOR.
 ③ FACTORY INSTALLED ECONOMIZER W/ B.A.P.O. RELIEF. ⑥ BALANCE OUTSIDE AIR TO 680 CFM.

UNIT WEIGHTS:
RTU-1, 2: 640 LBS.

SEE SPECIFICATION SECTION 239550 FOR ADDITIONAL INFORMATION.

CONTROL DAMPERS (CD)

SYMBOL	APPROX. SIZE	TYPE	RUSKIN MODEL	SERVICE	REMARKS
CD-1	6"Ø	QUARTER TURN	CDR-25	FAN COIL UNIT FCU-1 OUTSIDE AIR	WITH 24 VOLT ACTUATOR
CD-2	6"Ø	QUARTER TURN	CDR-25	FAN COIL UNIT FCU-2 OUTSIDE AIR	WITH 24 VOLT ACTUATOR

SEE SPECIFICATION SECTION 239550 FOR ADDITIONAL INFORMATION.

GRILLES AND DIFFUSERS

SYMBOL	CFM	NECK SIZE	FACE SIZE	KRUEGER MODEL	REMARKS
S-1	AS NOTED	AS NOTED	AS NOTED	1400A	
S-2	AS NOTED	AS NOTED	AS NOTED	DMGDR	
R-1	AS NOTED	AS NOTED	AS NOTED	6490	
TG-1	AS NOTED	AS NOTED	AS NOTED	EGC-5	

SEE SPECIFICATION SECTION 239400 FOR ADDITIONAL INFORMATION.



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ELECTRICAL PROGRAM RELOCATION
200 NORTH WASHINGTON BLVD.
OGDEN, UTAH

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Drawing Title

MECHANICAL SCHEDULES

Sheet Number

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Drawing Title

HVAC REMODEL PLAN

Sheet Number

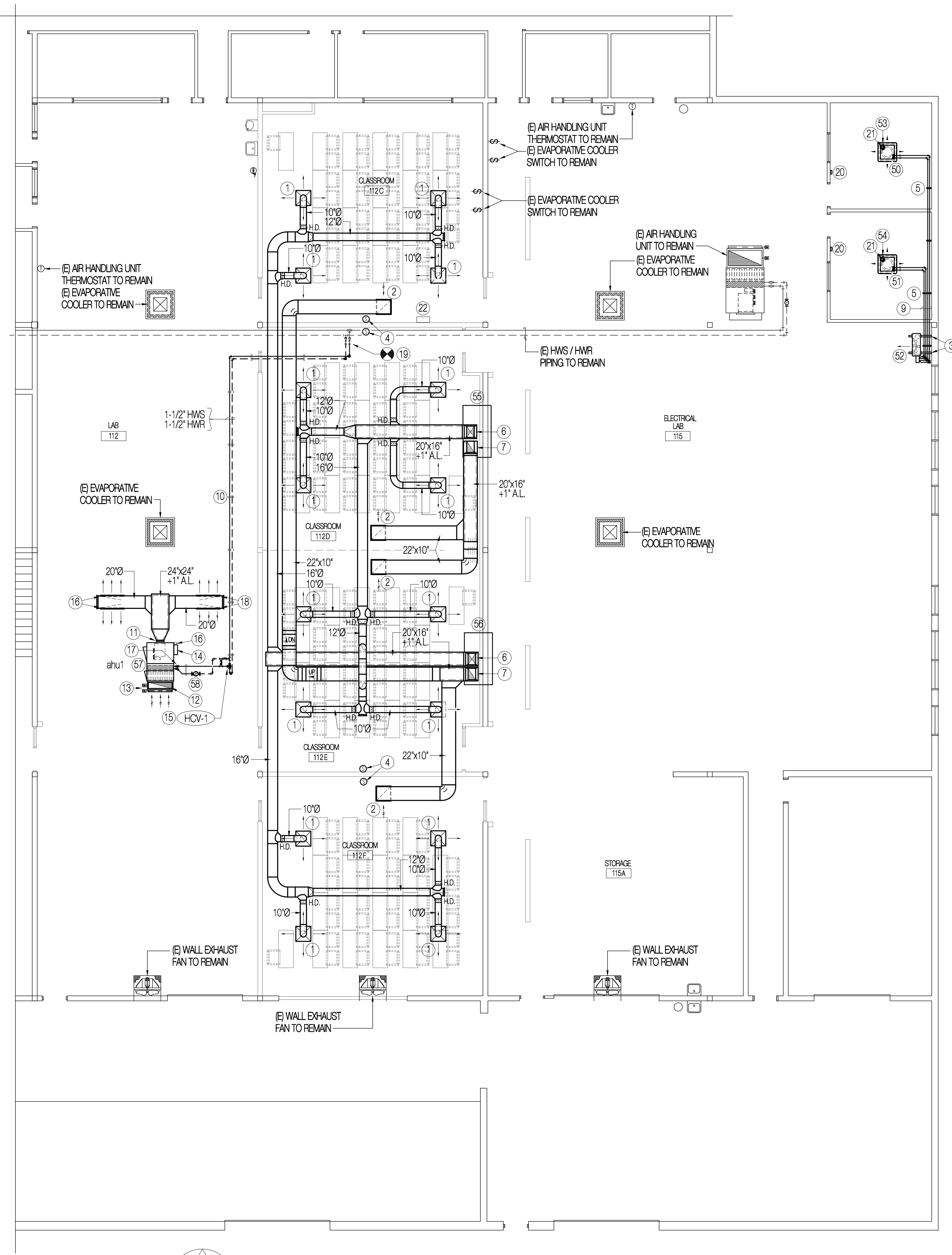
M-100

DRAWING NOTES

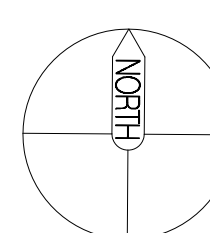
- 1 S-1 300 CFM, 10'Ø NK. S.A. DIFFUSER.
- 2 R-1 22'x22" NK. R.A. GRILLE.
- 3 EQUIPMENT WALL SUPPORT BRACKET, SEE DETAIL 1/M-000.
- 4 PROVIDE AND INSTALL NEW SENSOR AT 48" A.F.F. SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.
- 5 REFRIGERATION PIPING SUPPORT, SEE DETAIL 3/M-000.
- 6 20'x16'+1" A.L. SUPPLY AIR DUCT ON BOTTOM OF ROOFTOP HEAT PUMP. TRANSITION DUCT TO OUTLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 8/M-500.
- 7 20'x16'+1" A.L. RETURN AIR DUCT ON BOTTOM OF ROOFTOP HEAT PUMP. TRANSITION DUCT TO INLET COLLAR SIZE AND CONNECT WITH FLEXIBLE CONNECTION PER DETAIL 8/M-500.
- 9 1/4" LIQUID AND 5/8" SUCTION PIPING FROM FAN COIL UNITS TO WALL MOUNTED HEAT PUMP. PROVIDE A MINIMUM 18" CLEARANCE BETWEEN HEAT PUMP AND WALL SURFACE AND MOUNT HEAT PUMP AS HIGH ON WALL AS POSSIBLE.
- 10 PIPE SUPPORT, SEE DETAIL 1/M-501.
- 11 FLEXIBLE CONNECTION, TYPICAL.
- 12 38'x12" OUTSIDE AIR RISE THROUGH ROOF TO TERMINATION WITH SCREENED GOOSENECK ON ROOF. SEE DETAIL 5/M-501 FOR ROOF PENETRATION AND DETAIL 6/M-501 FOR SCREENED DUCT OPENING.
- 13 RE-INSTALL EXISTING DAMPER ACTUATORS REMOVED DURING DEMOLITION AND RE-COMMISSION ON NEW AIR HANDLING UNIT. PROVIDE ANY AND ALL ACCESSORIES REQUIRED TO MOUNT EXISTING ACTUATORS TO NEW AIR HANDLING UNIT DAMPERS.
- 14 RE-INSTALL EXISTING UNITARY CONTROLLER REMOVED DURING DEMOLITION AND RE-COMMISSION ON NEW AIR HANDLING UNIT. PROVIDE ANY AND ALL ACCESSORIES REQUIRED TO MOUNT EXISTING CONTROLLER AND RECONNECT TO NEW AIR HANDLING UNIT STARTER, PUMP STARTER, CONTROL VALVE, DAMPER AND TEMPERATURE SENSOR. RE-COMMISSION EXISTING CONTROL BOARD IN NEW AIR HANDLER AND VERIFY CORRECT OPERATION OF ALL DEVICES.
- 15 RE-INSTALL EXISTING VALVE ACTUATOR REMOVED DURING DEMOLITION AND RE-COMMISSION ON NEW AIR HANDLING UNIT. PROVIDE ANY AND ALL ACCESSORIES REQUIRED TO MOUNT EXISTING ACTUATORS TO NEW AIR HANDLING UNIT DAMPERS.
- 16 UNISTRUT EQUIPMENT SUPPORT WITH MINIMUM 5/8" THREADED ROD AND VIBRATION ISOLATOR TO STRUCTURE. PROVIDE SUPPORT AT EACH CORNER AND AT THE MIDSPAN OF THE UNIT.
- 17 1-1/2" HEATING WATER SUPPLY AND RETURN PIPING CONNECTIONS AT COIL. SEE DETAIL 2/M-501 FOR ADDITIONAL REQUIREMENTS.
- 18 S-2 1,250 CFM, 36'x12" NK. DUCT MOUNTED S.A. GRILLE WITH EXTRACTOR, SEE DETAIL 3/M-501 FOR INSTALLATION REQUIREMENTS.
- 19 FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING HEAT WATER SUPPLY AND RETURN PIPING. CONNECT NEW PIPING TO EXISTING UTILIZING LIKE MATERIAL AND EXTEND TO NEW AIR HANDLING UNIT AS INDICATED.
- 20 PROVIDE AND INSTALL FAN COIL UNIT CONTROLLER, MOUNT CONTROLLER AT 48" A.F.F. IN MANUFACTURER PROVIDED MOUNTING FRAME.
- 21 6"Ø OUTSIDE AIR DUCTWORK RISE TO VENT CAP ON ROOF. SEE DETAIL 2/M-000 FOR ROOF CAP INSTALLATION. PROVIDE MANUAL OUTSIDE AIR DAMPER AND CONTROL DAMPER IN VERTICAL RISE. SET CONTROL DAMPER TO OPEN WHENEVER FAN COIL UNIT RUNS AND ADJUST MANUAL OUTSIDE AIR DAMPER TO 45 CFM.
- 22 ATC PANEL ABOVE CEILING. SEE CONTROL DRAWINGS SHEET M-700 FOR ADDITIONAL INFORMATION.

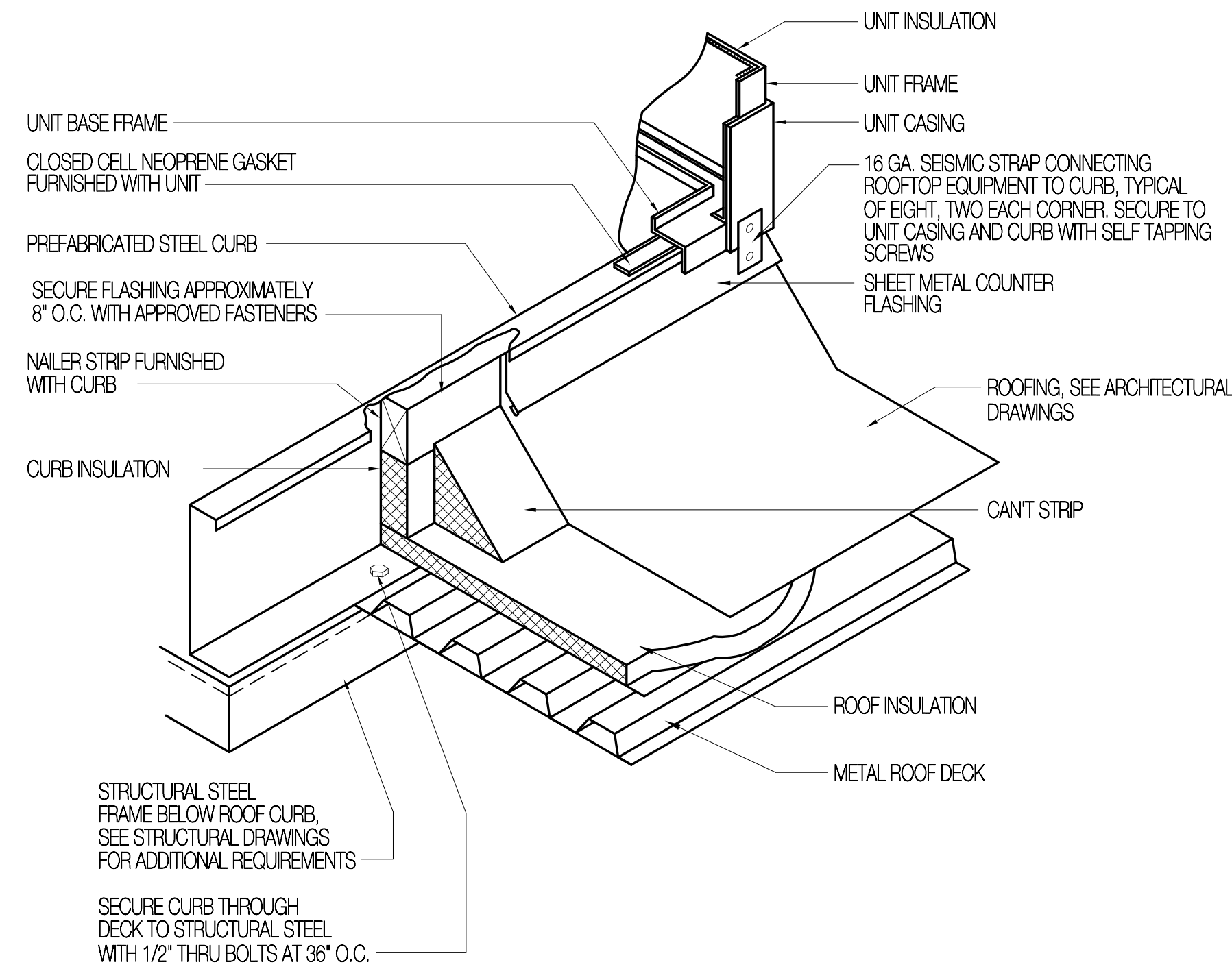
EQUIPMENT NOTES

- | | |
|------------------------|-------------------------------------|
| 50 FOU 1 FAN COIL UNIT | 55 RHP 1 ROOFTOP HEAT PUMP |
| 51 FOU 2 FAN COIL UNIT | 56 RHP 2 ROOFTOP HEAT PUMP |
| 52 HP 1 HEAT PUMP | 57 AHU 1 AIR HANDLING UNIT |
| 53 CD 1 CONTROL DAMPER | 58 SHWP 1 SYSTEM HEATING WATER PUMP |
| 54 CD 2 CONTROL DAMPER | |

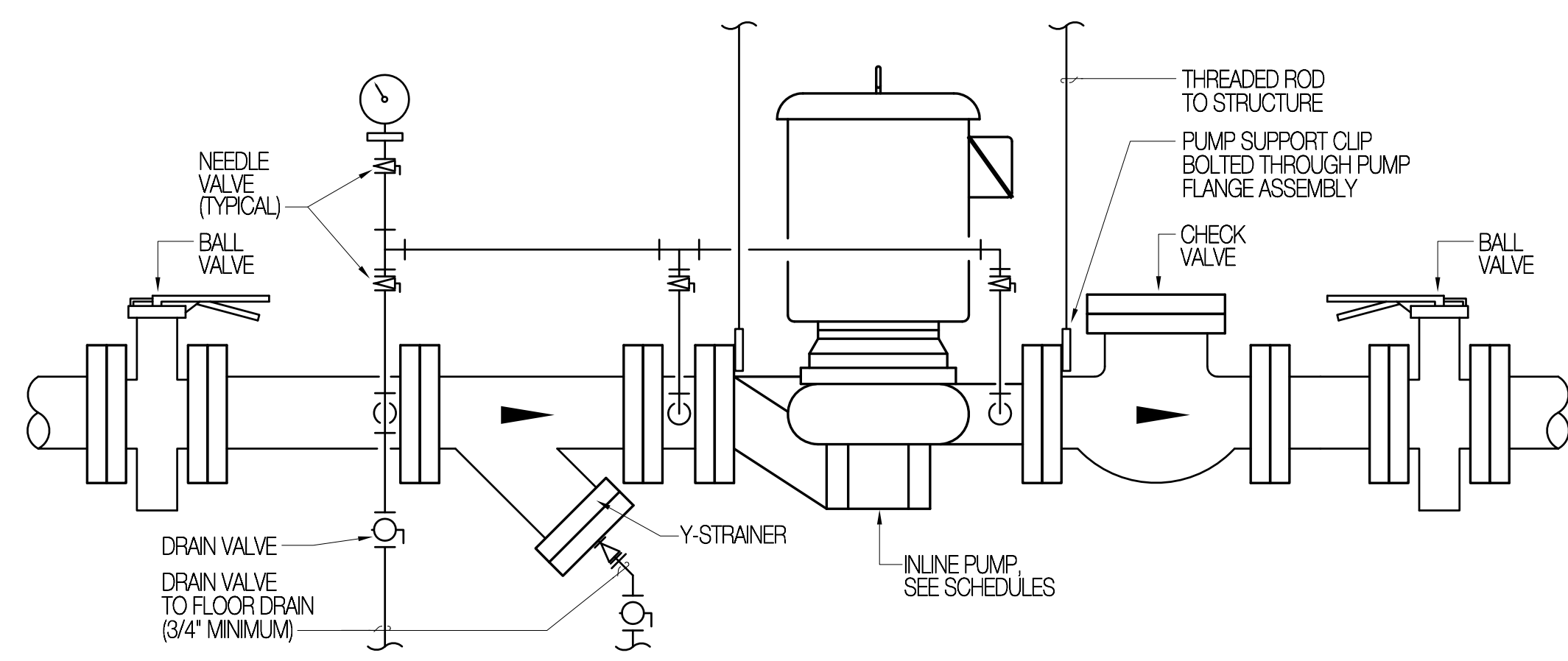


CLASSROOM AREA HVAC / PIPING REMODEL PLAN
SCALE: 1/8" = 1'-0"

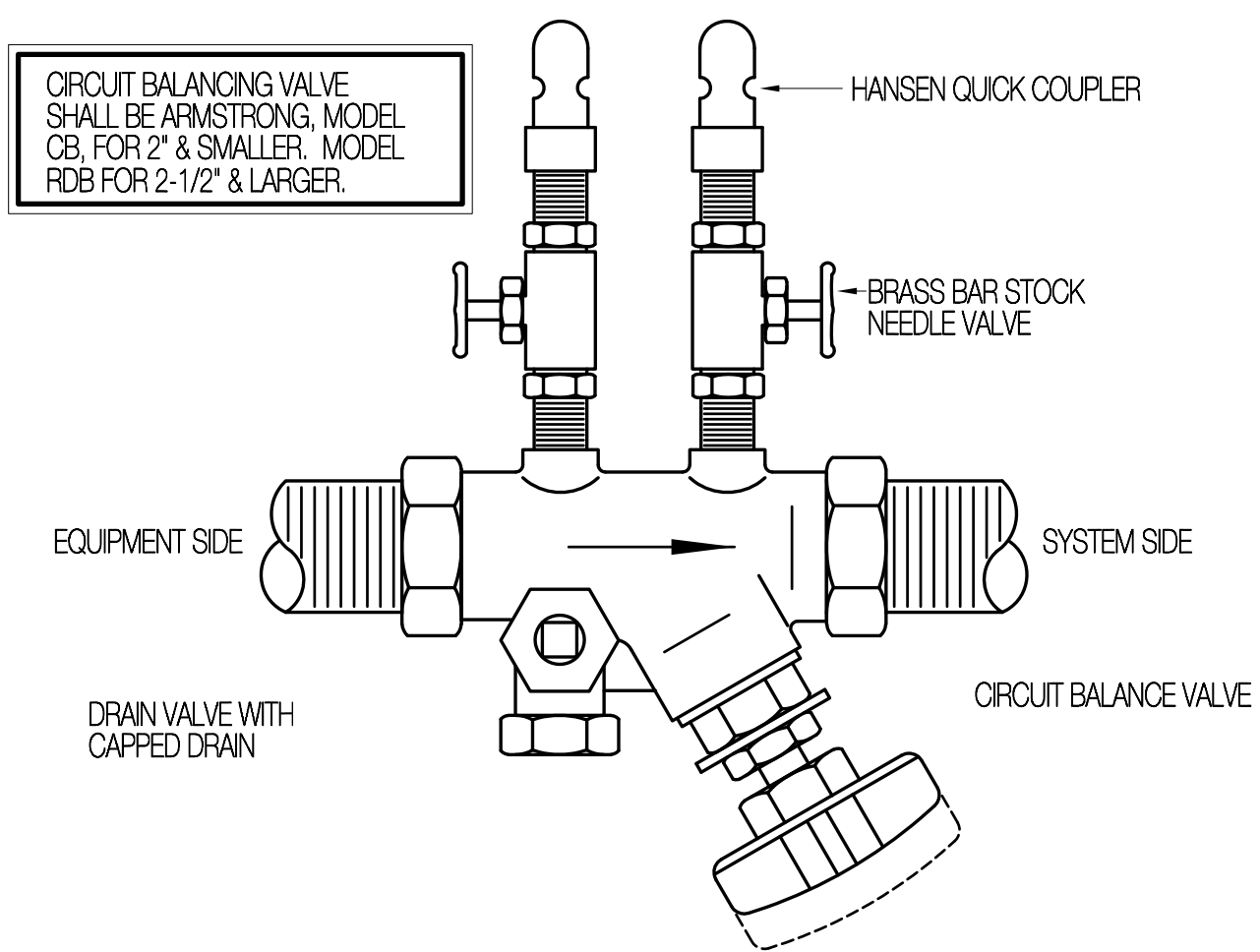




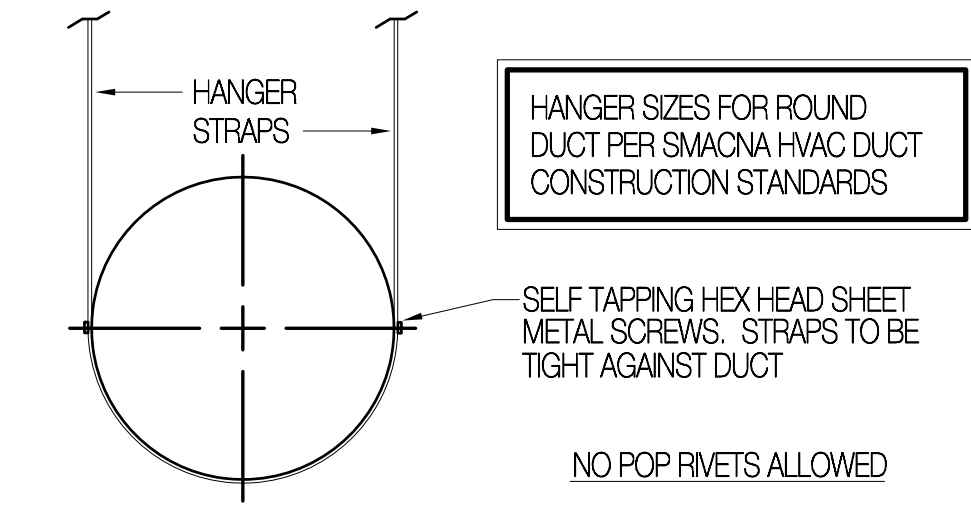
9 ROOFTOP EQUIPMENT FLASHING DETAIL
SCALE: NONE



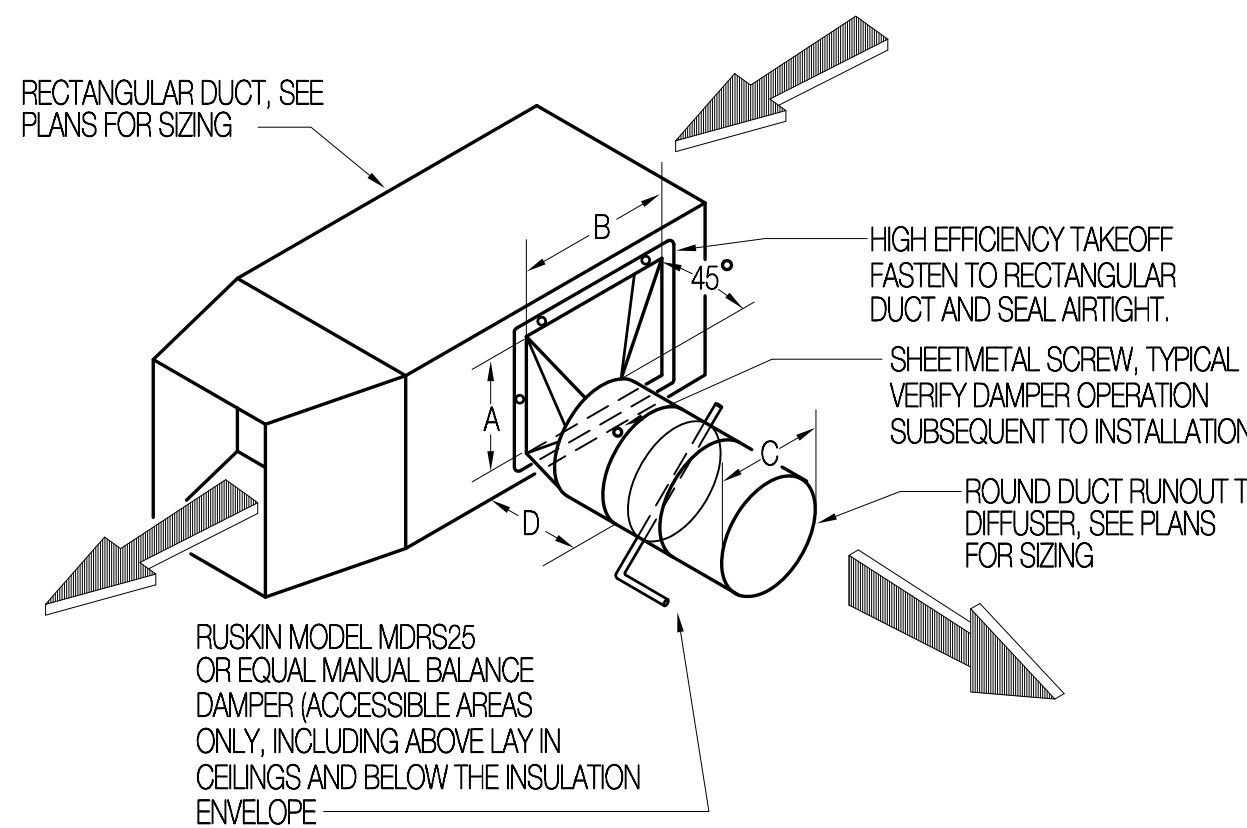
10 INLINE PUMP DETAIL
SCALE: NONE



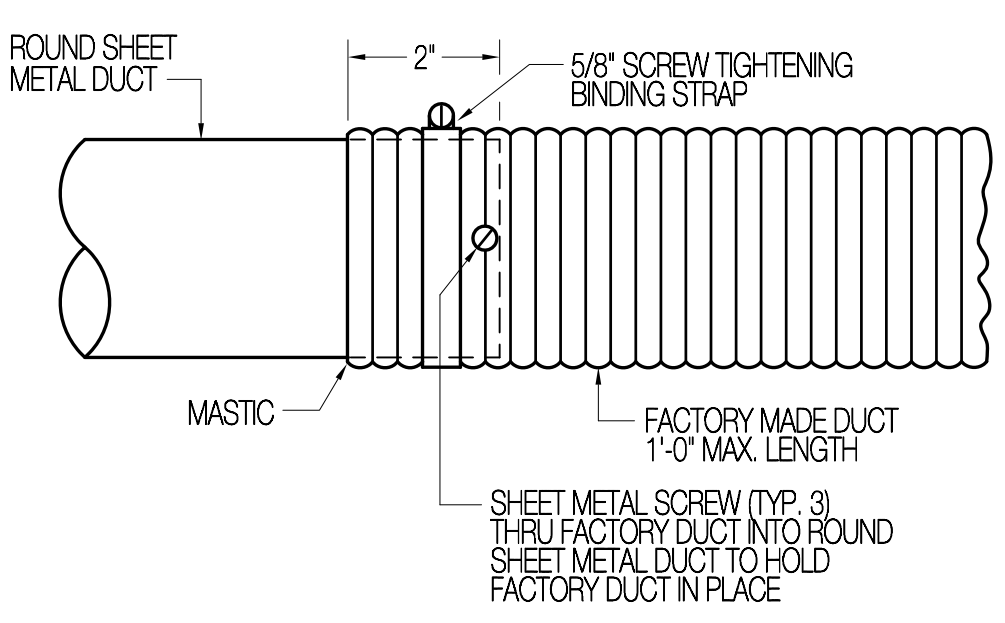
11 CIRCUIT BALANCE VALVE DETAIL
SCALE: NONE



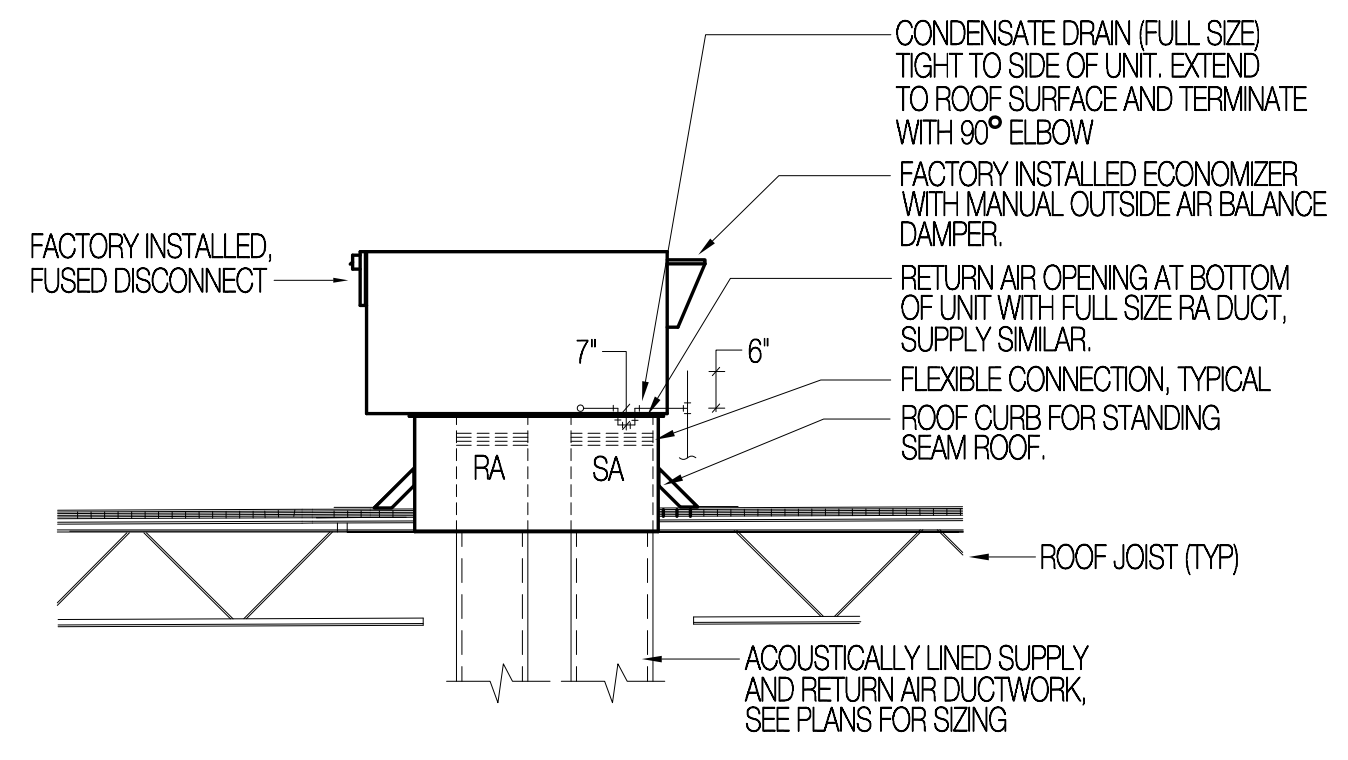
5 RND. DUCT HANGER DETAIL
SCALE: NONE



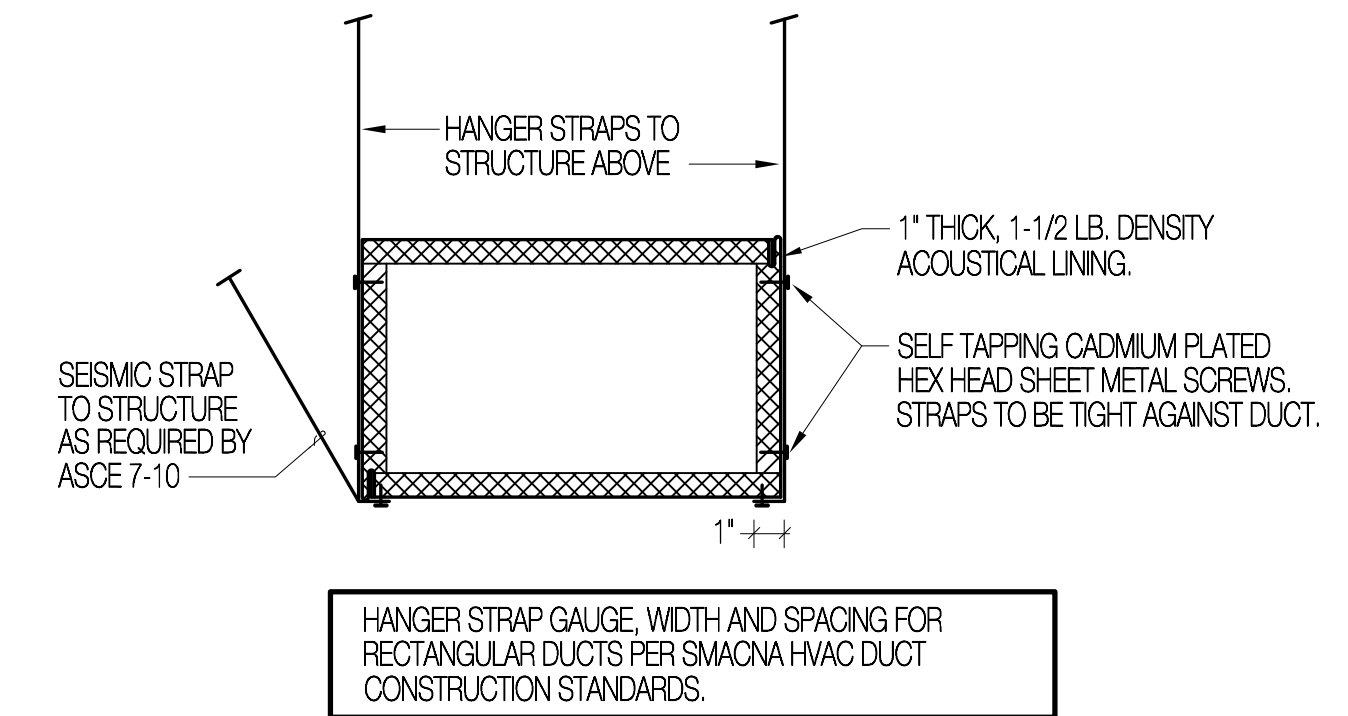
6 ROUND DUCT RUNOUT DETAIL
SCALE: NONE



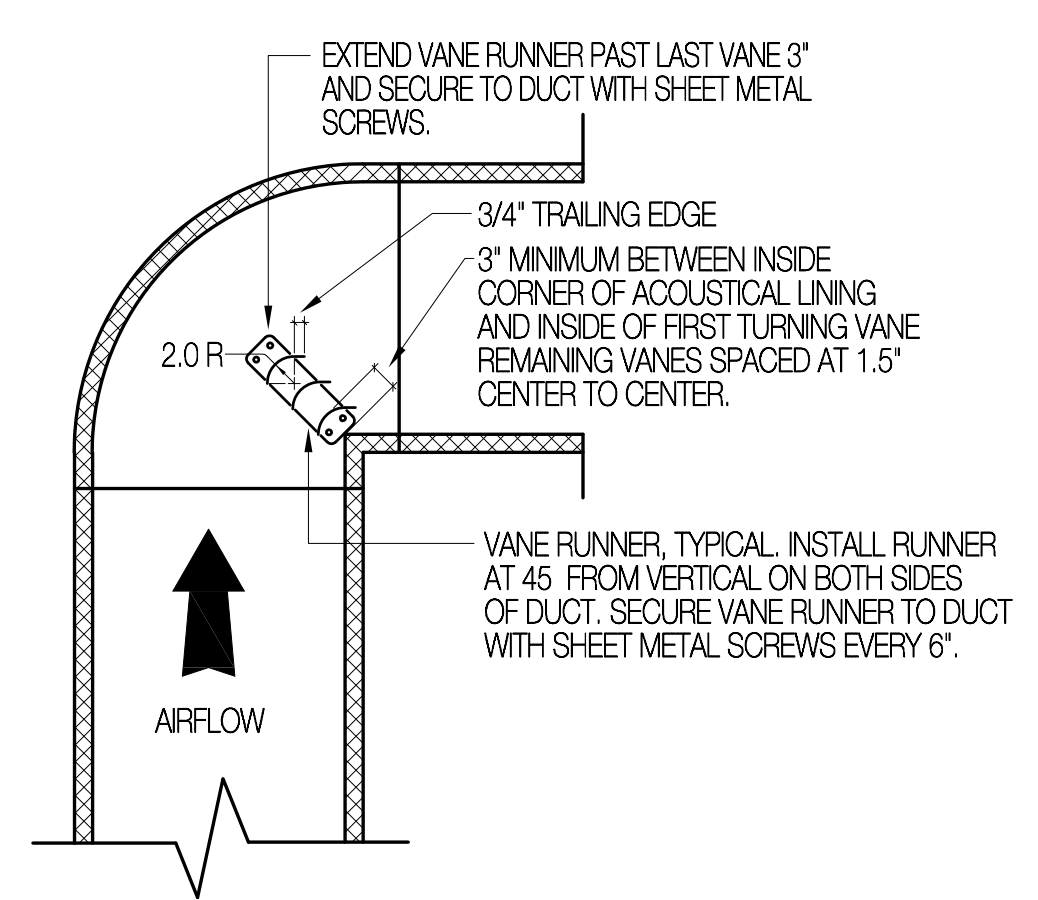
7 FACTORY DUCT DETAIL
SCALE: NONE



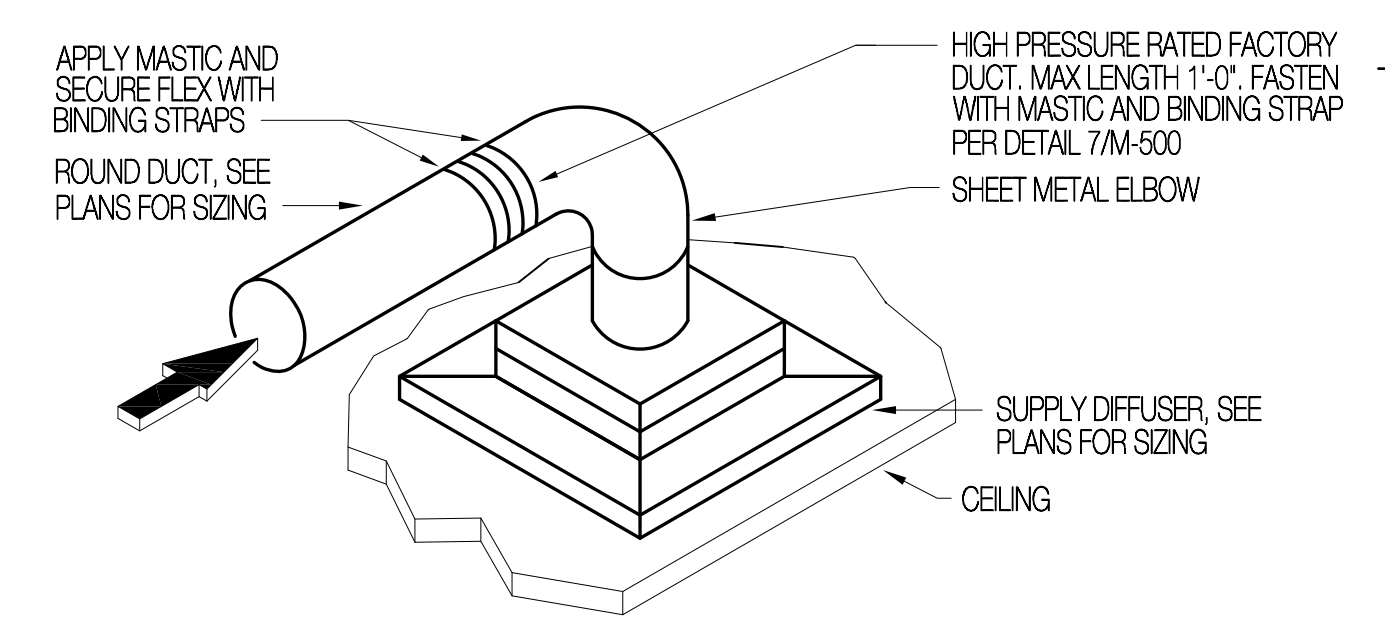
8 RHP INSTALLATION DETAIL
SCALE: NONE



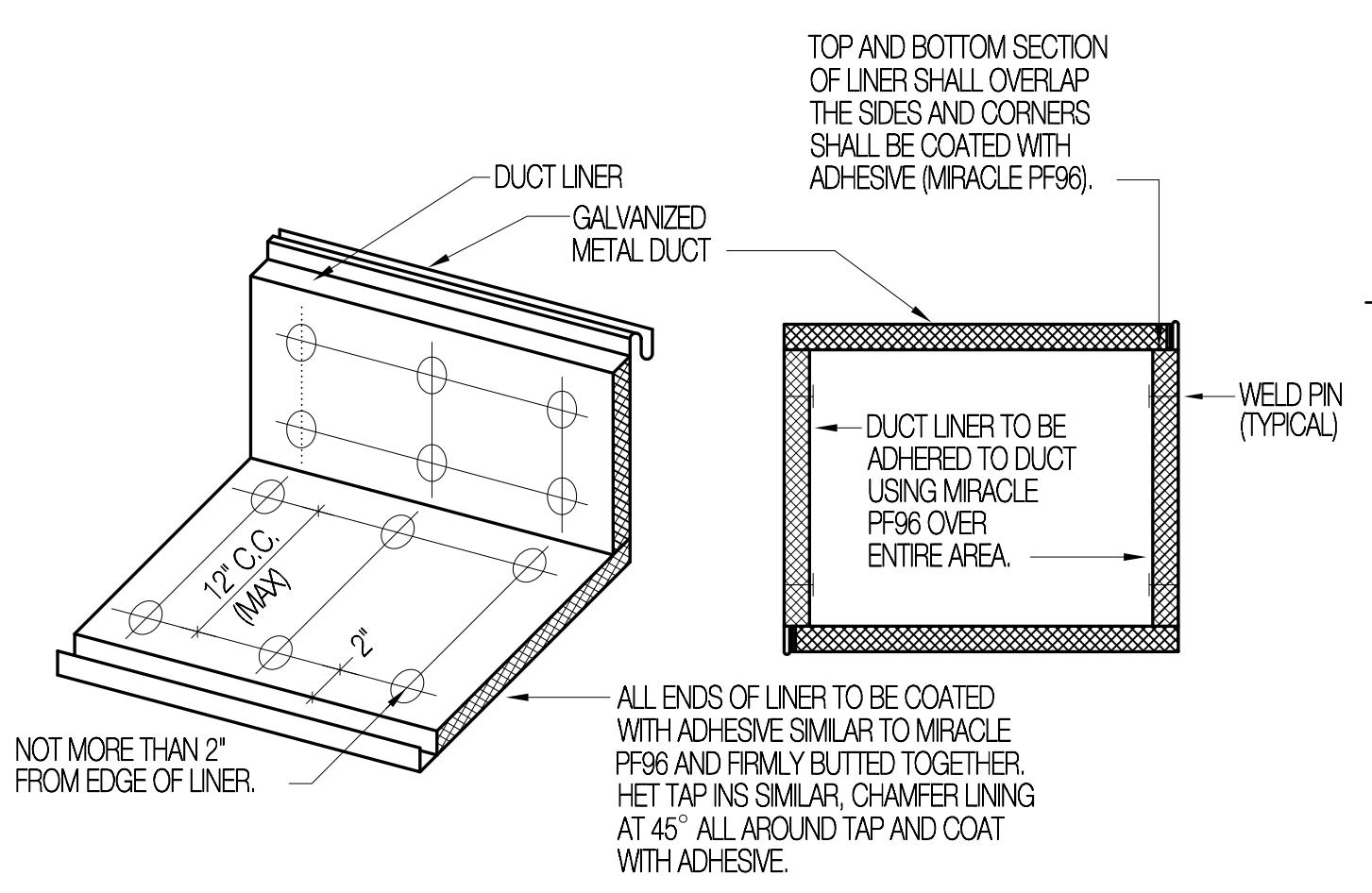
1 RECT. DUCT HANGER DETAIL
SCALE: NONE



2 TURNING VANE DETAIL
SCALE: NONE



3 DIFFUSER CONNECTION DETAIL
SCALE: NONE



4 ACOUSTICAL LINER DETAIL
SCALE: NONE

HET DIMENSIONS

BRANCH SIZE (C)	THROAT DIM.		MIN. AREA AxB
	A	B	
6"	8-1/4"	12"	3.5 X AREA OF C
8"	10-1/4"	14"	2.8 X AREA OF C
10"	12"	16"	2.3 X AREA OF C
12"	14"	17"	2.1 X AREA OF C

LENGTH D SHALL BE A MINIMUM OF 11"



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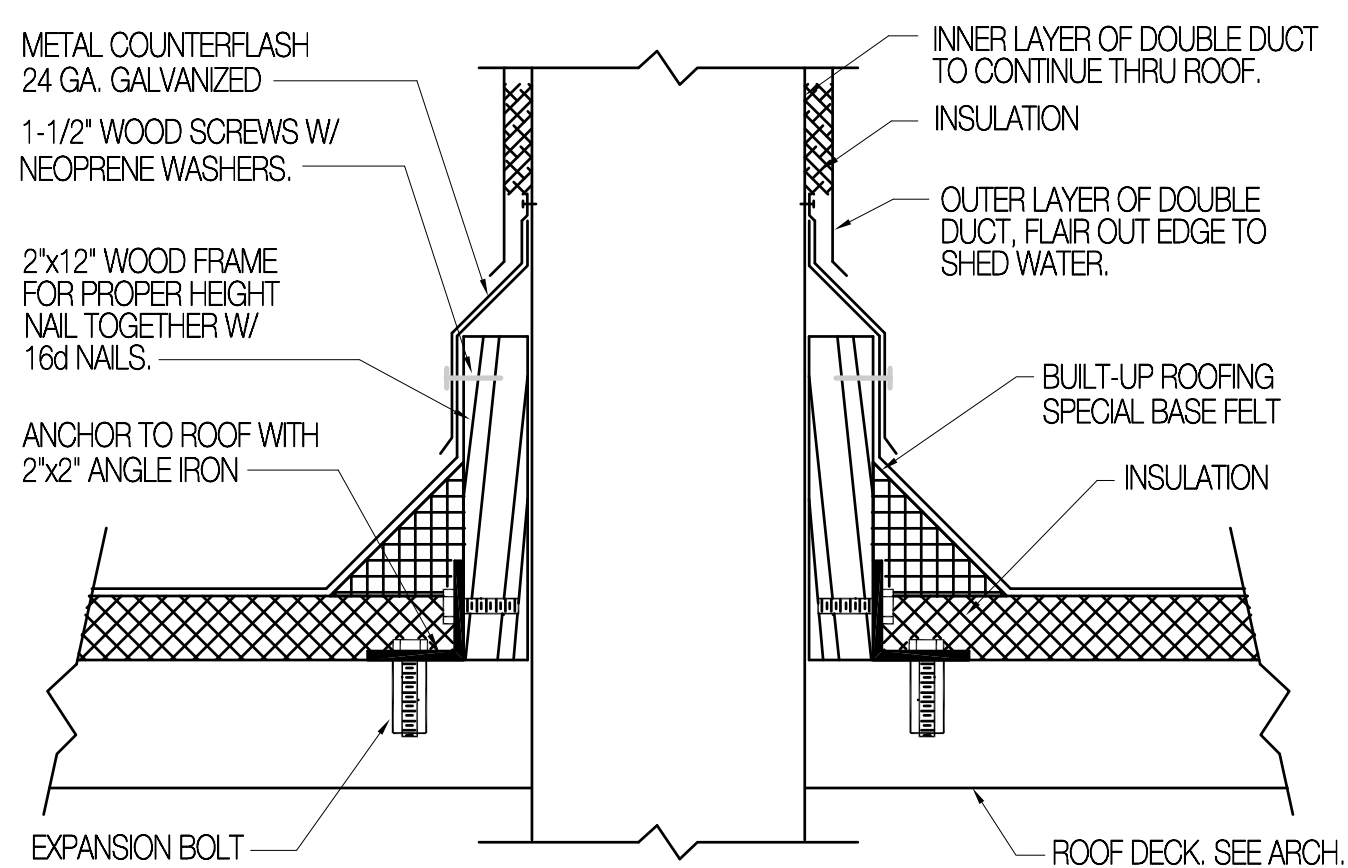
Revision

No.	Date	Description

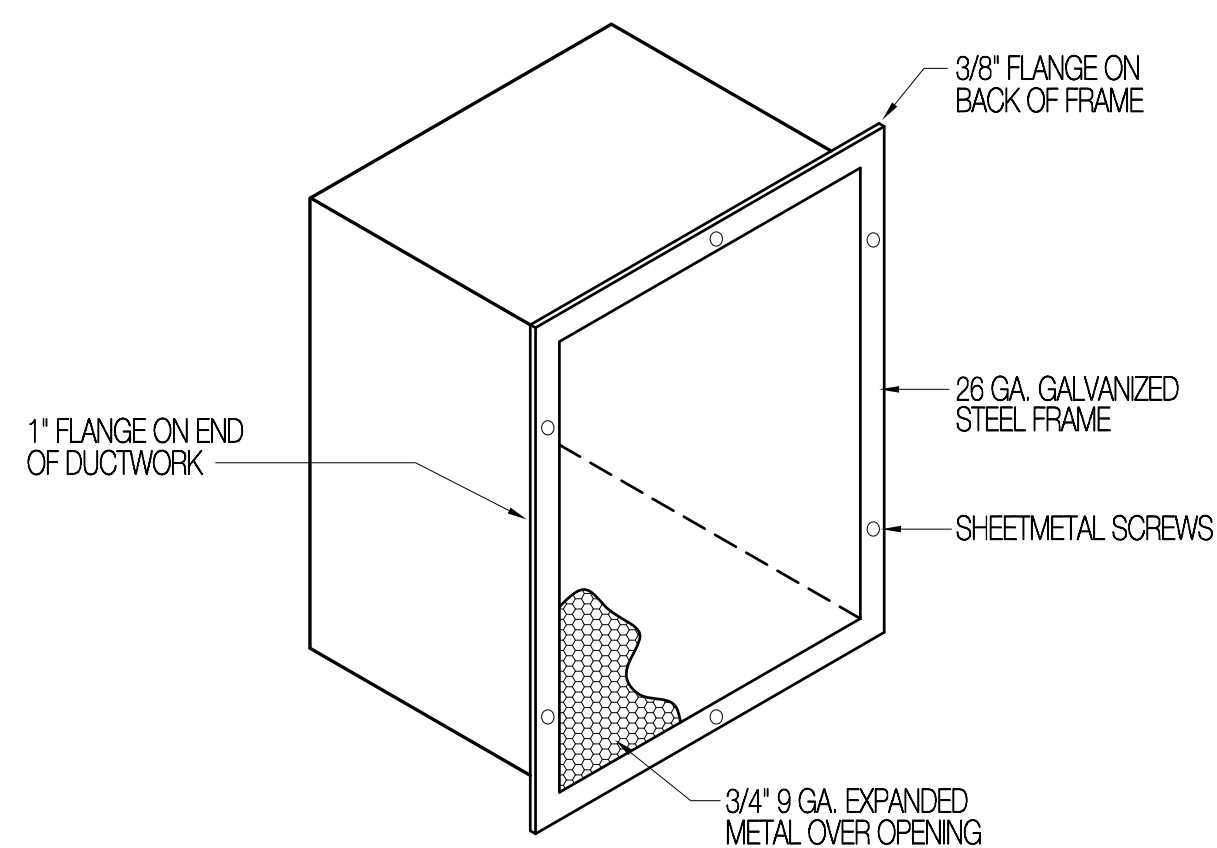
SAA Project No. 2021-24
Drawing Title

MECHANICAL
DETAILS

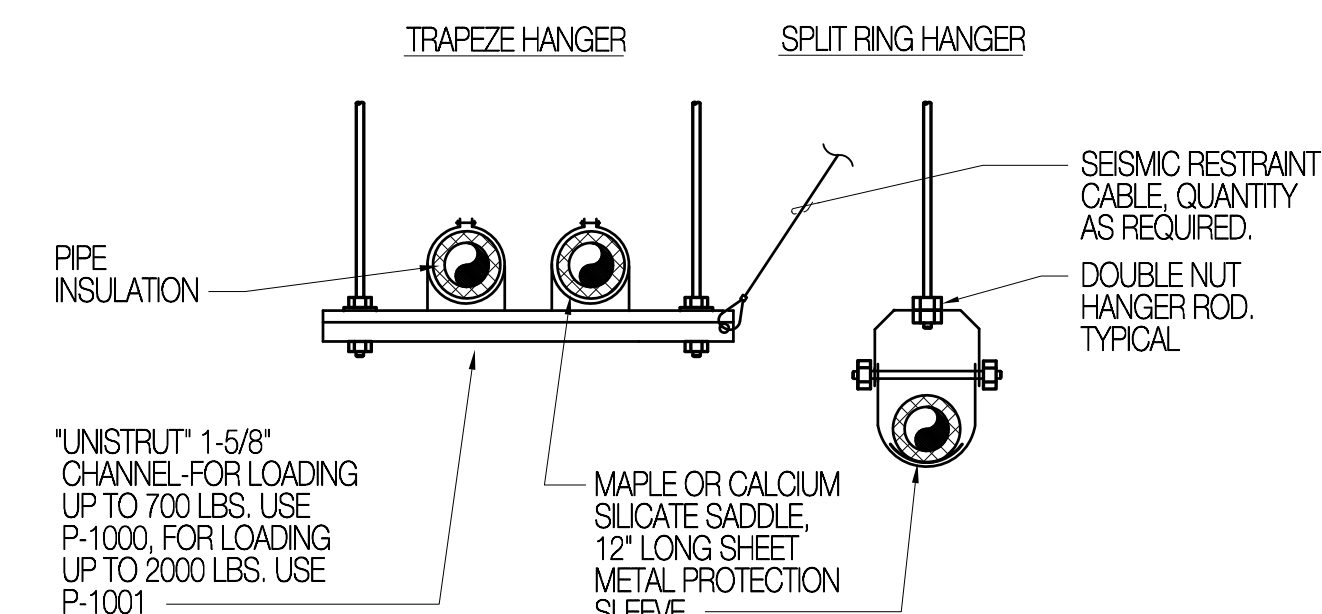
Sheet Number
M-500



5 DUCT PENETRATION DETAIL
SCALE: NONE



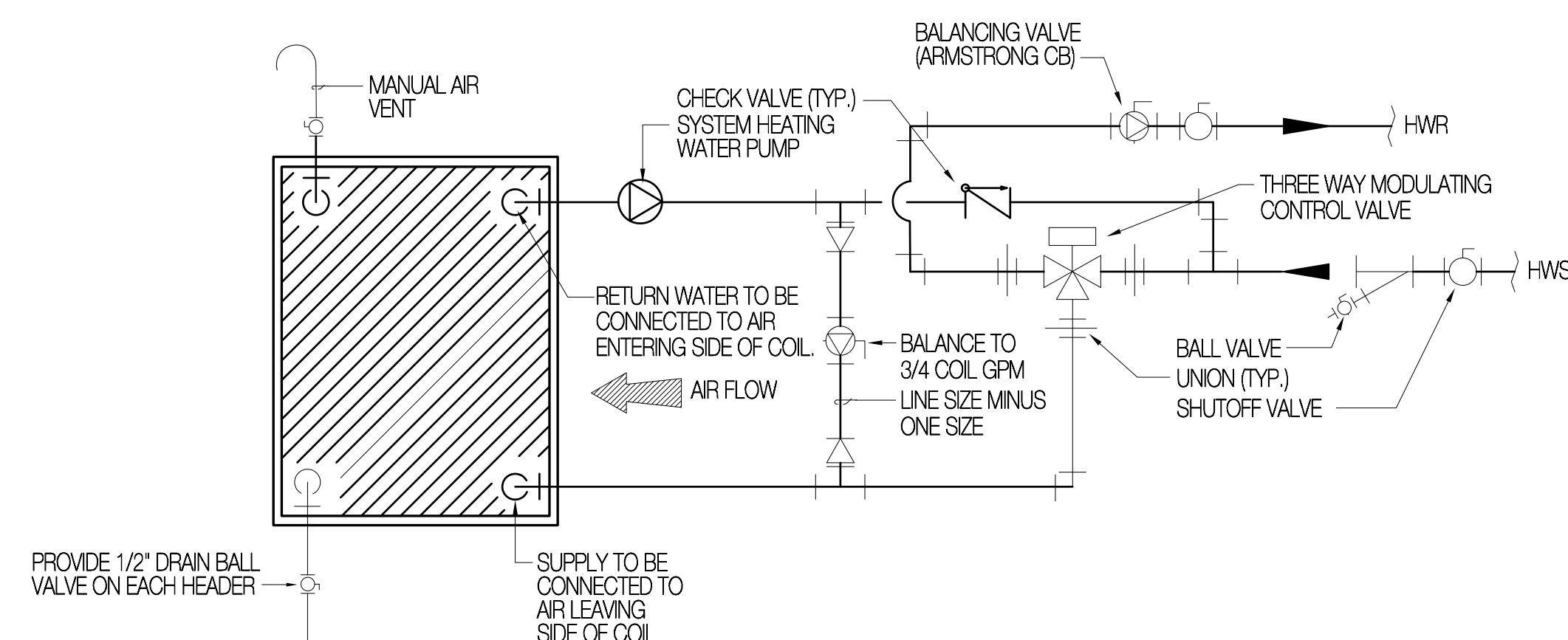
6 DUCT OPENING DETAIL
SCALE: NONE



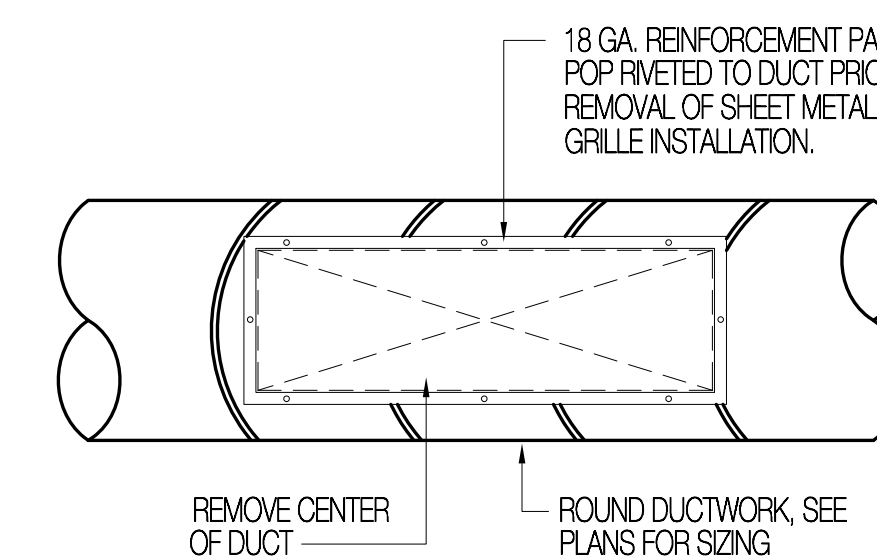
PIPE SIZE	MAX. SPACING	PIPE LOAD WEIGHT/FT. TOTAL	ROD SIZE
1" AND SMALLER	8	2.5/20	3/8"
1-1/4" - 2"	10	6/60	3/8"
2-1/2" - 4"	12	20/240	5/8"

HANGERS SIZES AND SPACING ARE FOR SINGLE PIPES. HANGER ROD LOADING FOR TRAPEZE HANGERS SHALL NOT EXCEED THE TOTAL LOADING INDICATED. IF SMALLER ROD SIZE IS USED, DECREASE MAXIMUM SPACING SO THAT TOTAL LOADING IS NOT EXCEEDED.

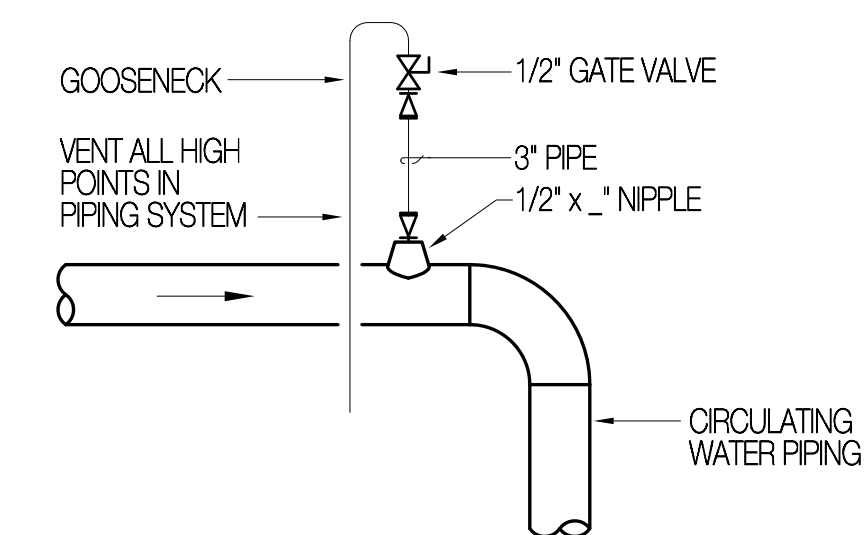
1 PIPE HANGER DETAIL
SCALE: NONE



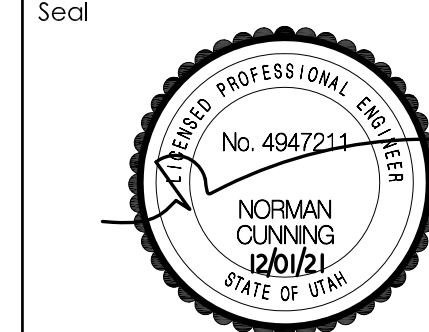
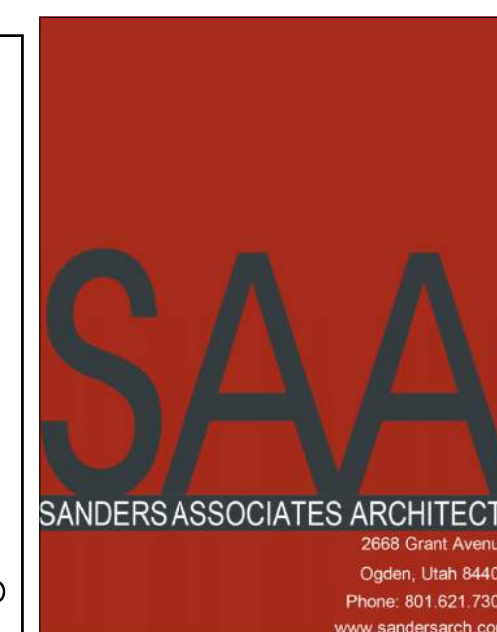
2 HEATING COIL PIPING SCHEMATIC
SCALE: NONE



3 DIFFUSER INSTALLATION DETAIL
SCALE: NONE



4 AIR VENT DETAIL
SCALE: NONE



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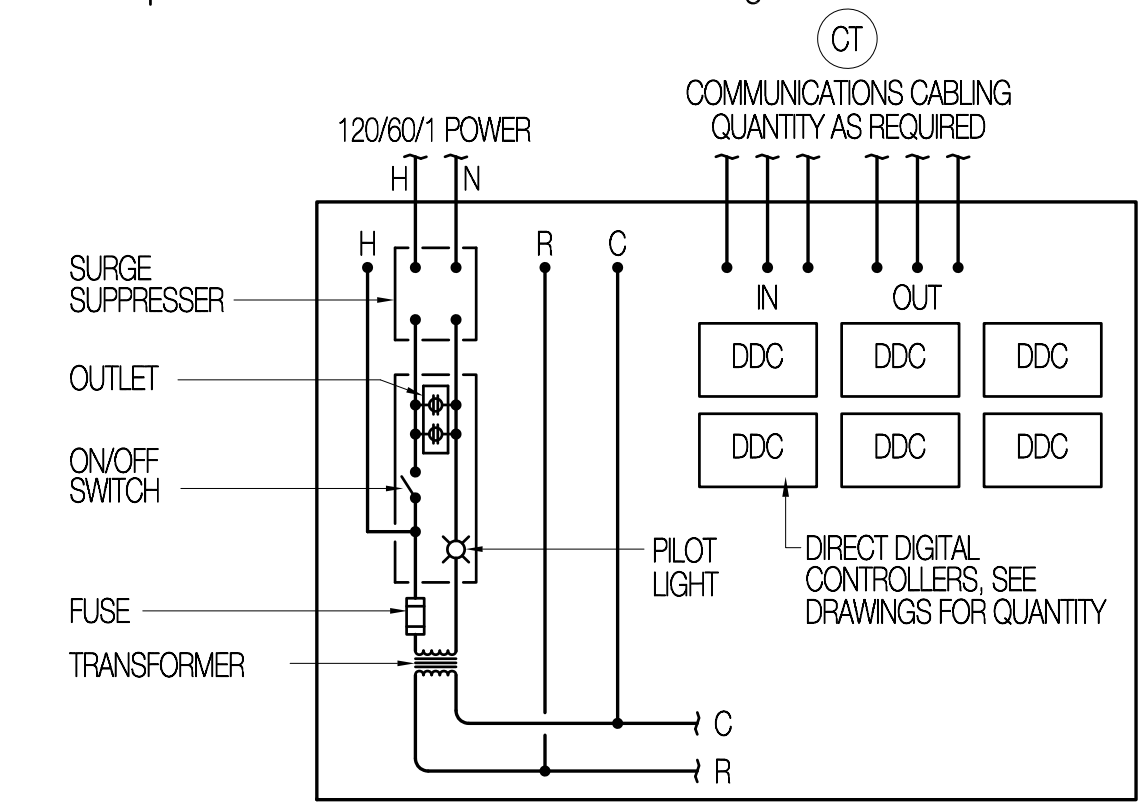
M-501

CONTROL VALVE SCHEDULE (CV)

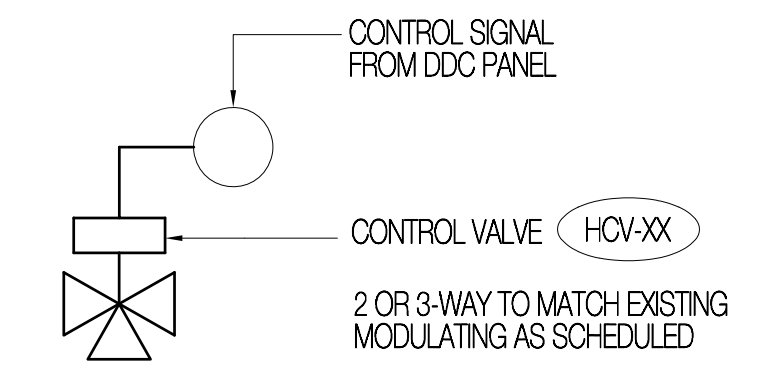
SYMBOL	VALVE TYPE	OPERATOR TYPE	GPM	MAXIMUM PRESSURE DROP	FLUID	DUTY	REMARKS
HCV-1	MATCH EXISTING	RE-UTILIZE EXISTING	25 GPM	5 FEET	HWS	AHU-1 HEATING COIL	-

GENERAL NOTES FOR MECHANICAL CONTROLS

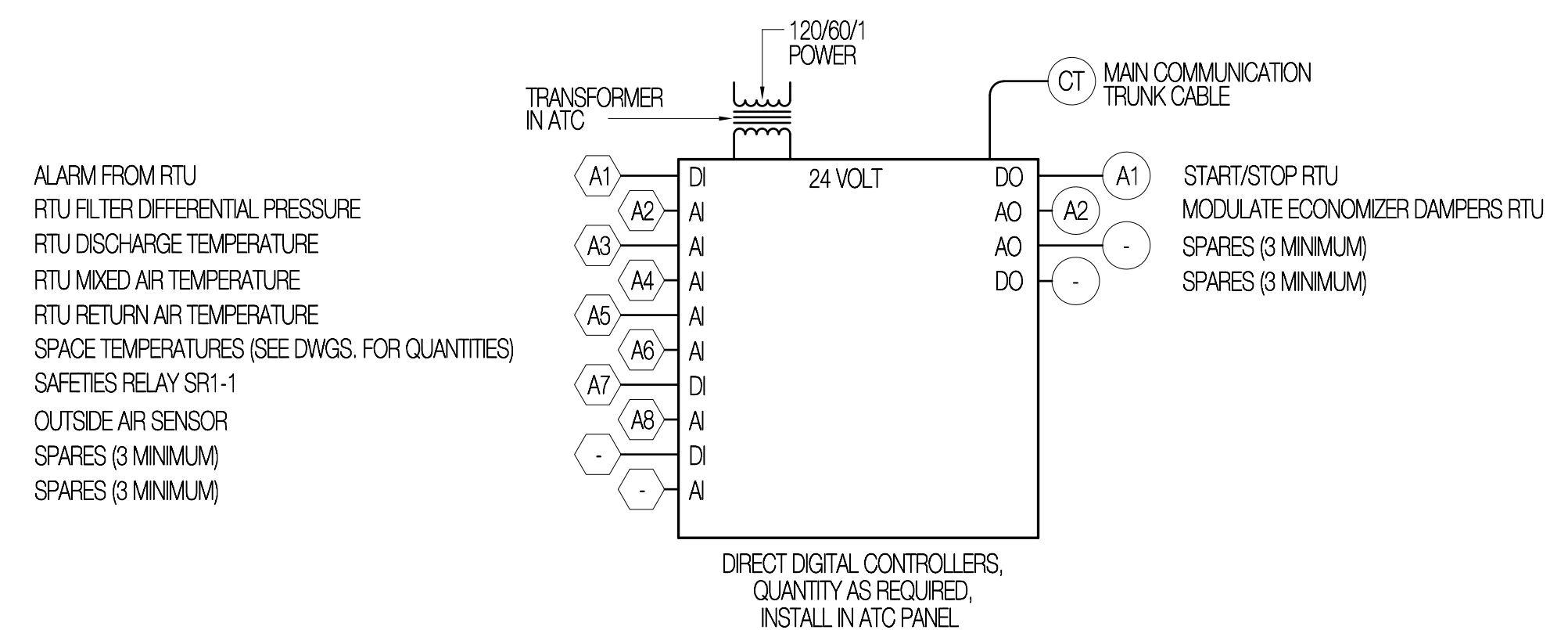
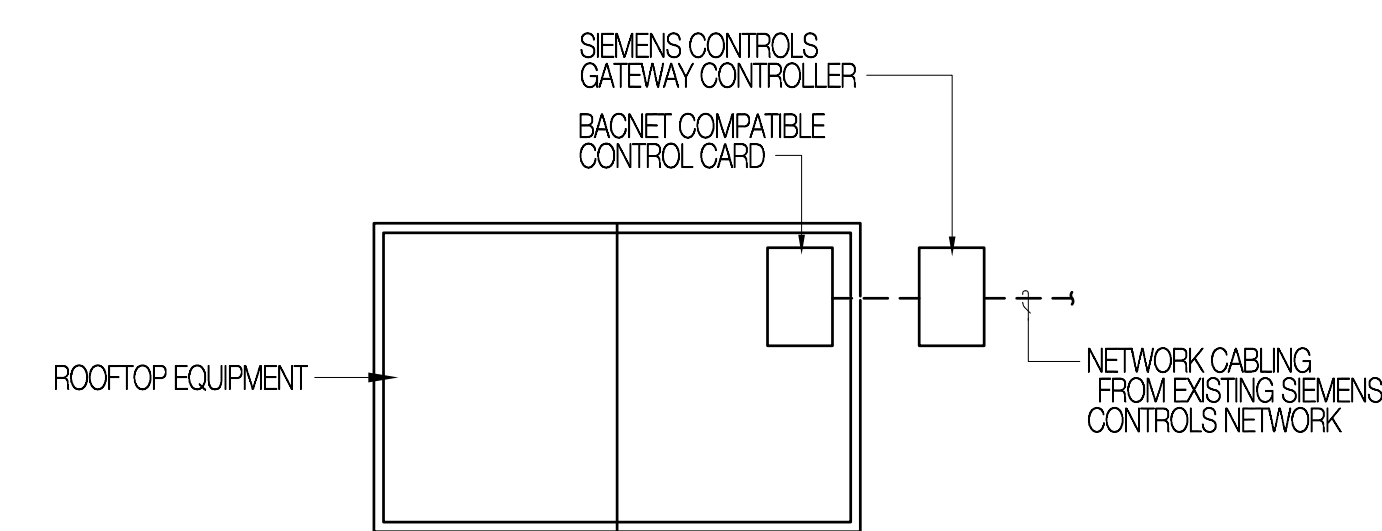
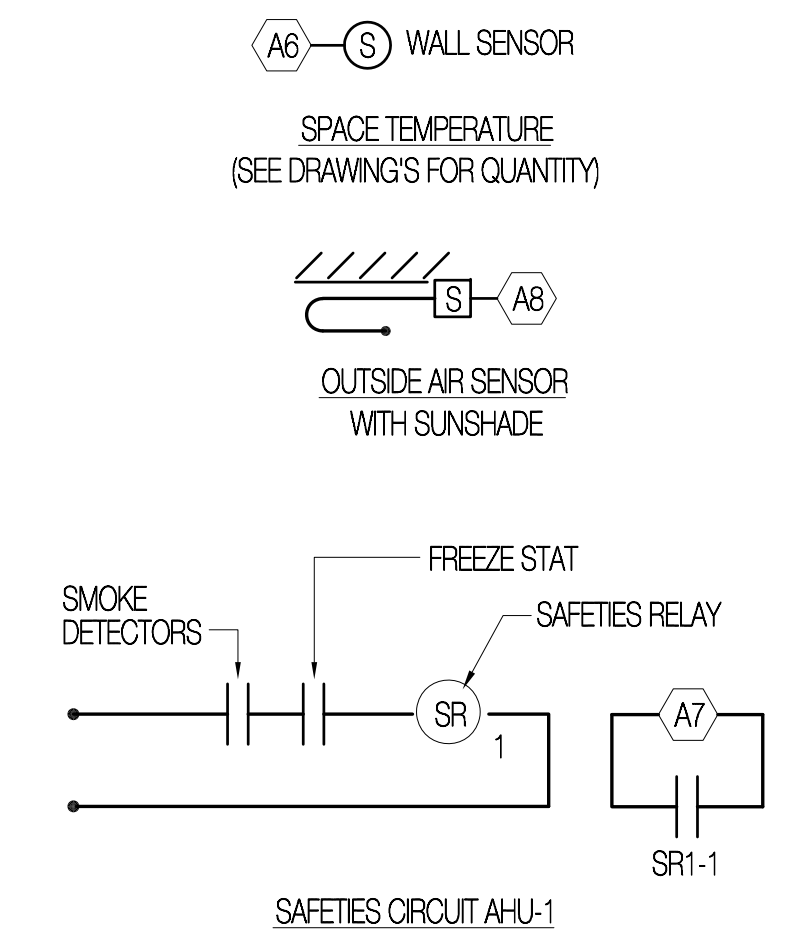
1. ALL ELECTRICAL INSTALLATIONS INCLUDING POWER DISTRIBUTION AND SPECIAL SYSTEMS ARE INCLUDED IN THE SCOPE OF THE GENERAL CONTRACT. OF SPECIFIC CONCERN ARE THE CONTROL SYSTEMS RELATED TO MECHANICAL EQUIPMENT. RESPONSIBILITY FOR THE CONTROL WORK IS DIVIDED BETWEEN THE PROJECT ELECTRICIAN (DIV. 26000) AND A SPECIALTY CONTROLS CONTRACTOR (DIV. 23000).
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH DIVISION 26000 AND TO THE FULLEST EXTENT POSSIBLE, PRODUCTS AND PRACTICES SHALL BE SIMILAR FOR ALL INSTALLATIONS.
3. THE ELECTRICIAN SHALL PROVIDE ALL POWER TO AND THROUGHOUT THE BUILDING, TO INCLUDE MOTOR CONTROL CENTERS, BREAKER PANELS AND ALL OTHER SYSTEMS DESIGNATED TO THE ELECTRICIANS.
4. THE ELECTRICIAN SHALL RUN AND CONNECT ALL WIRING AND DEVICES 120 VOLTS AND ABOVE WHICH POWER MOTORS AND OTHER MECHANICAL DEVICES WHERE CONTROL DEVICES ARE LOCATED IN POWER OROUT, THE CONTROLS CONTRACTOR SHALL INTERRUPT THE CIRCUIT IN THE MECHANICAL EQUIPMENT JUNCTION BOX, WIRE THROUGH THE CONTROL DEVICE AND BACK TO THE JUNCTION BOX.
5. THE CONTROLS CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR CONTROL SYSTEM CIRCUITS.
6. BREAKERS AND DISCONNECTS, AUXILIARY CONTACTS, STANDARD PILOT LIGHTS AND MAGNETIC STARTERS ARE THE RESPONSIBILITY OF DIVISION 26000.
7. AUXILIARY RELAYS, LOW VOLTAGE TRANSFORMERS, CONTROL PANEL SWITCHES & DEVICES, THERMOSTATS, PRESSURE SWITCHES, ELECTRIC OPERATED VALVES, ETC., ARE THE RESPONSIBILITY OF DIVISION 23000.
8. ANY QUESTION OF RESPONSIBILITY SHALL BE CLARIFIED BY THE GENERAL CONTRACTOR
9. ALL WIRING SHALL TERMINATE AT LABELED TERMINAL STRIPS.



TYPICAL ATC PANEL



TYPICAL CONTROL VALVE DIAGRAM



RTU CONTROL DIAGRAM

TYPICAL OF RHP-1 AND 2

AHU GENERAL CONTROL NOTES

1. THE CONTROLS CONTRACTOR SHALL TRANSFER ALL OF THE EXISTING SIEMENS CONTROL DEVICES FROM THE EXISTING AIR HANDLER TO THE NEW AIR HANDLING UNIT. THE SIEMENS CONTROLS CONTRACTOR SHALL RE-COMMISSION THE EXISTING SIEMENS CONTROL DEVICES AND PROGRAM THE NEW AIR HANDLER TO OPERATE BASED ON THE CONTROL SEQUENCE BELOW. RECONNECT ANY AND ALL EXISTING TEMPERATURE SENSOR AND VERIFY PROPER OPERATION PRIOR TO INPUTING CONTROL SEQUENCE.
- CONTROL SEQUENCE: THE AIR HANDLER SHALL RUN BASED ON A SCHEDULE DICTATED BY THE OWNER, DURING NORMAL OPERATION THE RETURN AND OUTSIDE AIR DAMPERS SHALL OPEN 80 RETURN / 20 OUTSIDE AND THE HEATING WATER VALVE SHALL MODULATE TO MAINTAIN THE SPACE AT 70° F. IN THE EVENT THAT THE HEATING WATER CONTROL VALVE IS OPERATING BELOW 35% OPEN THE SYSTEM HEATING WATER PUMP SHALL ENERGIZE TO MAINTAIN OPTIMUM FLOW THROUGH THE COIL.



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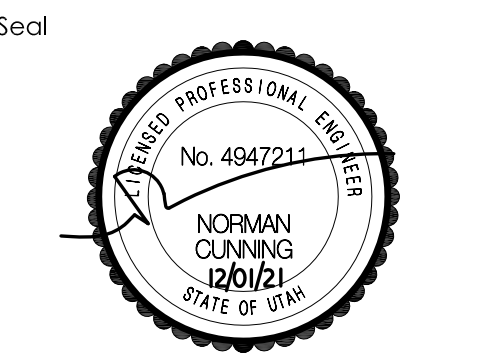
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2	02.27.2022	OWNER UPDATES

SAA Project No. 2021-24
 Drawing Title

MECHANICAL CONTROLS

Sheet Number
M-700



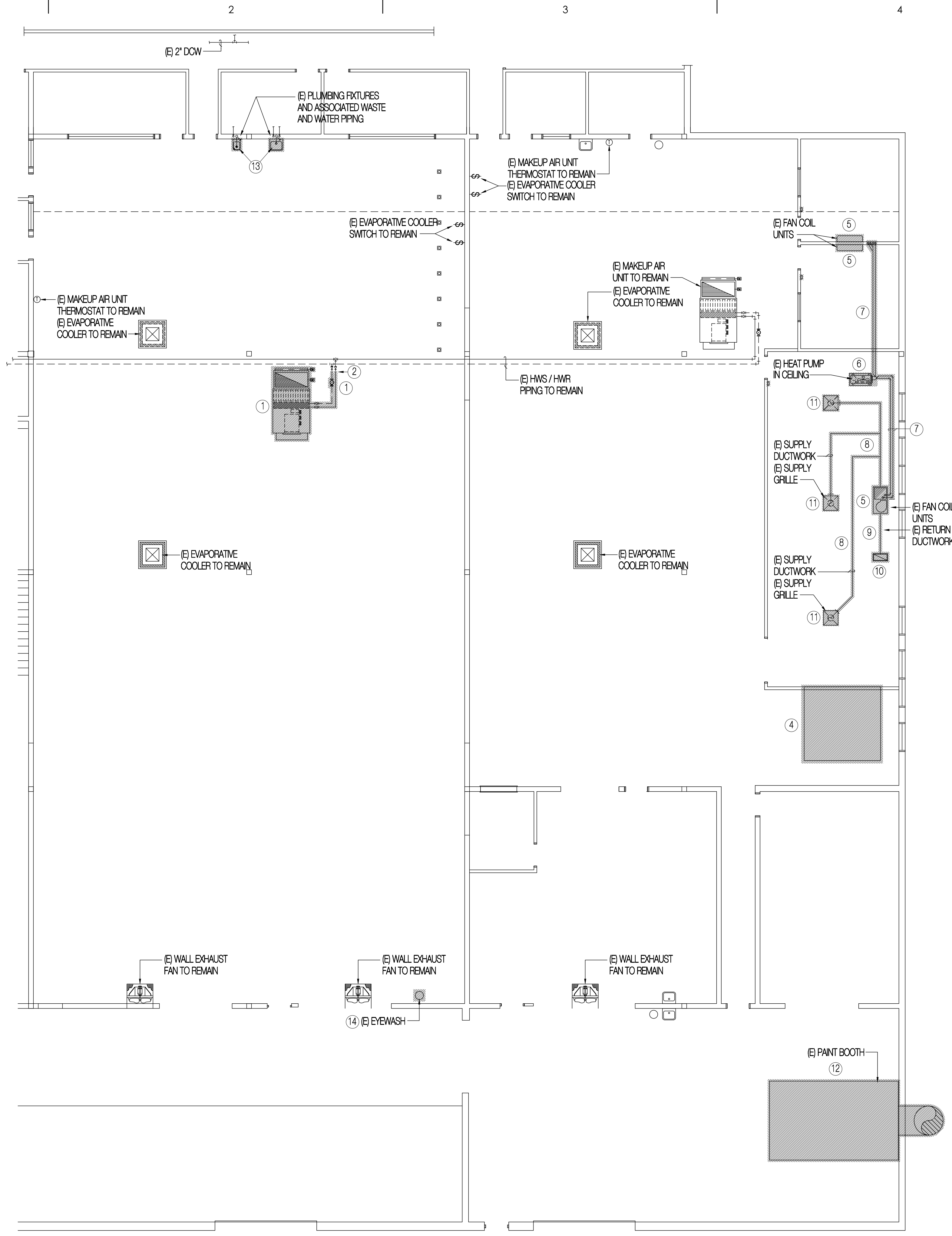
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GENERAL DEMO. NOTES

1. REMOVE ALL PORTIONS OF EXISTING PLUMBING INSTALLATION NOT REQUIRED TO REMAIN IN SERVICE. FIELD COORDINATE REMOVAL WITH REMODEL PLAN, SHEETS P-100. REMOVE EXISTING FIXTURES, UNDERGROUND WASTE AND VENT UTILITIES, OVER-HEAD WATER UTILITIES, ETC PREPARATORY TO NEW WORK.
2. REMOVE ALL PORTIONS OF EXISTING HVAC INSTALLATION NOT REQUIRED TO REMAIN IN SERVICE. FIELD COORDINATE REMOVAL WITH REMODEL PLAN, SHEETS M-100. REMOVE EXISTING EQUIPMENT, DUCTWORK AND CONTROLS, ETC PREPARATORY TO NEW WORK.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING UNDERGROUND AND OVER-HEAD UTILITIES PRIOR TO START OF NEW WORK. ADAPT EXISTING UTILITIES TO SIZES AND LOCATION SHOWN ON REMODEL PLAN PREPARATORY TO NEW WORK.

DRAWING NOTES

- 1 REMOVE EXISTING MAKEUP AIR UNIT COMPLETE PREPARATORY TO NEW WORK. REMOVAL SHALL INCLUDE UNIT, ALL ASSOCIATED PIPING, PUMPS, DUCTWORK AND SUPPORT DEVICES. THE CONTRACTOR SHALL REMOVE EXISTING CONTROL DEVICES FROM MAKEUP AIR UNIT AND RETAIN FOR INSTALLATION ON NEW MAKEUP AIR UNIT. SEE CONTROL DRAWINGS SHEET M-700 FOR REMODEL WORK.
- 2 CAP EXISTING HEATING WATER SUPPLY AND RETURN PIPING PREPARATORY TO NEW WORK.
- 3 REMOVE EXISTING WALL EXHAUST FAN PREPARATORY TO NEW WORK. REMOVAL SHALL INCLUDE FAN, ASSOCIATED CONTROLS AND ELECTRICAL WIRING.
- 4 REMOVE EXISTING WALK IN COOLER COMPLETE PREPARATORY TO NEW WORK.
- 5 REMOVE EXISTING FAN COIL UNIT COMPLETE PREPARATORY TO NEW WORK. REMOVAL SHALL INCLUDE UNIT, AND ALL ASSOCIATED CONTROLS AND WIRING.
- 6 REMOVE EXISTING HEAT PUMP COMPLETE PREPARATORY TO NEW WORK. REMOVAL SHALL INCLUDE HEAT PUMP, AND ALL ASSOCIATED CONTROLS AND WIRING.
- 7 REMOVE EXISTING REFRIGERATION PIPING COMPLETE PREPARATORY TO NEW WORK.
- 8 REMOVE EXISTING SUPPLY DUCTWORK PREPARATORY TO NEW WORK.
- 9 REMOVE EXISTING RETURN DUCTWORK PREPARATORY TO NEW WORK.
- 10 REMOVE EXISTING RETURN GRILLE PREPARATORY TO NEW WORK.
- 11 REMOVE EXISTING SUPPLY GRILLE PREPARATORY TO NEW WORK.
- 12 REMOVE EXISTING PAINT BOOTH PREPARATORY TO NEW WORK. REMOVAL SHALL INCLUDE PAINT BOOTH PANELS, FILTERS, FANS, LIGHTS, EXHAUST DUCTWORK AND CONTROL SYSTEMS.
- 13 REMOVE EXISTING PLUMBING FIXTURES COMPLETE PREPARATORY TO NEW WORK. REMOVE FIXTURE, AND ALL ASSOCIATED WASTE AND WATER SUPPLY PIPING.
- 14 REMOVE EXISTING EYEWASH AND ASSOCIATED WASTE AND WATER PIPING PREPARATORY TO NEW WORK. CAP EXISTING WATER AND WASTE PIPING FLUSH WITH WALL AND RETURN EYEWASH FIXTURE TO OWNER.



CLASSROOM AREA HVAC / PLUMBING DEMO. PLAN

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

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No.	Date	Description

SAA Project No. 2021-24
 Drawing Title

HVAC / PLUMBING
 DEMOLITION PLAN

Sheet Number

MPD-100



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No.	Date	Description

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No.	Date	Description

SAA Project No. 2021-24
Drawing Title

PLUMBING SCHEDULES,
SYMBOL LGND. &
DETAILS

Sheet Number

P-000

PLUMBING SYMBOL LEGEND \ ABBREVIATIONS

WCO	WALL CLEAN OUT	DP	DROP IN PIPE	UN	UNION
DCW	DOMESTIC COLD WATER (DCW)	RP	RISE IN PIPE	CV	CHECK VALVE
DHW	DOMESTIC HOT WATER (DHW)	EP	ELBOW IN PIPE	VTR	VENT THROUGH ROOF
W	WASTE (W)	TP	TEE IN PIPE	MV	MIXING VALVE
V	VENT (V)	BV	BALL VALVE		
G	GAS (G)	VD	VALVE IN DROP		

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	COLD	HOT	TRAP	WASTE	VENT	REMARKS
P-1	SINGLE LEVEL WATER COOLER WITH BOTTLE FILLER	1/2"	-	1-1/4"	2"	1-1/2"	SPEC SECTION 224400
P-2	WASH SINK, WALL MOUNTED SINGLE BOWL, STAINLESS STEEL	1/2"	1/2"	1-1/2"	2"	1-1/2"	SPEC SECTION 224400
P-3	WALL HUNG EYE WASH, ABS BOWL WITH DUAL BUBBLERS, CHROME FINISH	3/4"	3/4"	1-1/2"	2"	2"	SPEC SECTION 224400
WCO	WALL CLEAN OUT	-	-	-	-	-	SPEC SECTION 224400

GENERAL FIXTURE NOTES:

- THE PLUMBING CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF ALL PLUMBING EQUIPMENT AND THE RELATED ROUGH IN LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL PLANS AND SPECIFICATIONS. PROVIDE ALL ACCESSORIES AND OPTIONS REQUIRED TO PROVIDE THE OWNER A COMPLETELY FUNCTIONAL PLUMBING SYSTEM.
- ALL WALL HUNG PLUMBING FIXTURES SHALL BE SUPPORTED BY FLOOR MOUNTED CARRIERS (SMITH, JOSAM, MIFAB, OR WATTS) CARRIERS SHALL BE CONSTRUCTED UTILIZING ALL METAL COMPONENTS WITH SUPPORT FEET SECURELY ANCHORED TO FLOOR STRUCTURE. FIXTURE ARMS SHALL SUPPORT FIXTURE INDEPENDENT FROM WALL STRUCTURE.
- EACH INDIVIDUAL FIXTURE SUPPLY SHALL BE PROVIDED WITH A CHROME-PLATED QUARTER TURN STOP VALVE BRASSCRAFT MODEL KTOR_ OR ENGINEER APPROVED EQUAL.
- FIXTURES AND ACCESSORIES SHALL BE AS SCHEDULED. EACH ITEM SHALL BE COMPLETE WITH CHROME-PLATED BRASS TRIM.
- ADA COMPLIANT FIXTURES SHALL BE INSTALLED WITH PRE-FORMED INSULATION AND PROTECTIVE COVERS ON P-TRAPS AND STOPS. COVERS TO BE MANUFACTURED BY BUCKARDOOS OR TRUBERIC.
- CALLK ALL FIXTURES TO THE WALL OR FLOOR WITH APPLICABLE SILICONE COMPOUND. UTILIZE MULTIPLE BEADS TO FILL GAPS AND FINISH TO SMOOTH, FILLETED EDGE. USE APPROPRIATE TOOLS TO PROVIDE PROFESSIONAL APPEARANCE.
- ALL PLUMBING SHALL BE INSTALLED TO CONFORM TO THE LATEST ADOPTED EDITION OF THE IDAHO PLUMBING CODE INCLUDING LOCAL AMENDMENTS. CONSULT AUTHORITIES HAVING JURISDICTION.
- ALL SINKS AND LAVATORIES WHERE HAND WASHING IS ANTICIPATED (FIXTURE P-2) SHALL BE PROTECTED WITH ASSE 1070 APPROVED TEMPERING VALVES PER DETAIL 4/P-000.

PIPING MATERIALS SCHEDULE

SERVICE	MATERIAL	REMARKS
DCW / DHW	TYPE "L" COPPER TUBING W/ WROUGHT COPPER FITTINGS	-
NAT. GAS	SCHEDULE 40 BLACK IRON	-
WASTE / VENT	SOLID CORE ABS OR PVC WITH DWV FITTINGS ABOVE AND BELOW GRADE	-

WATER HEATER (WH)

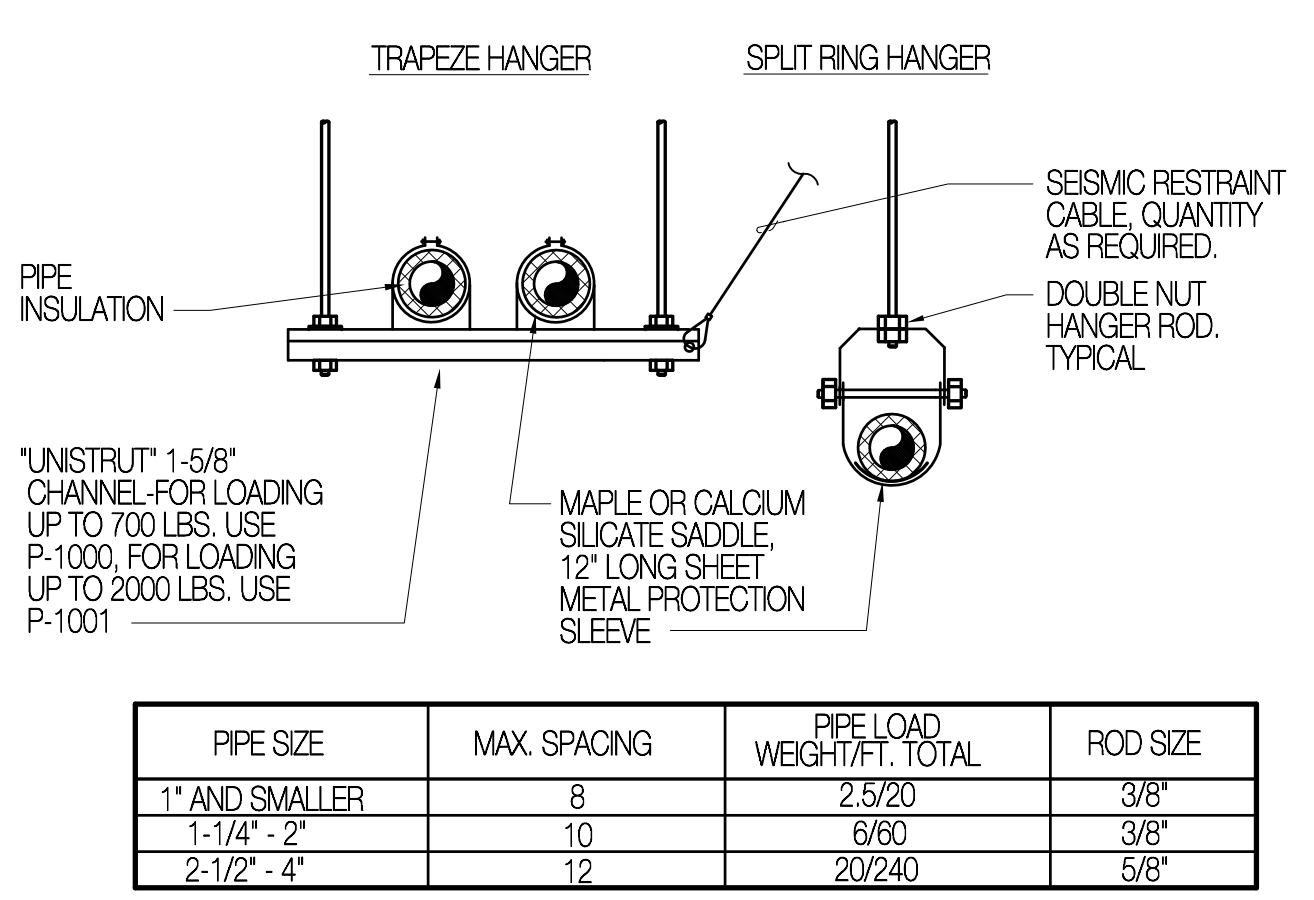
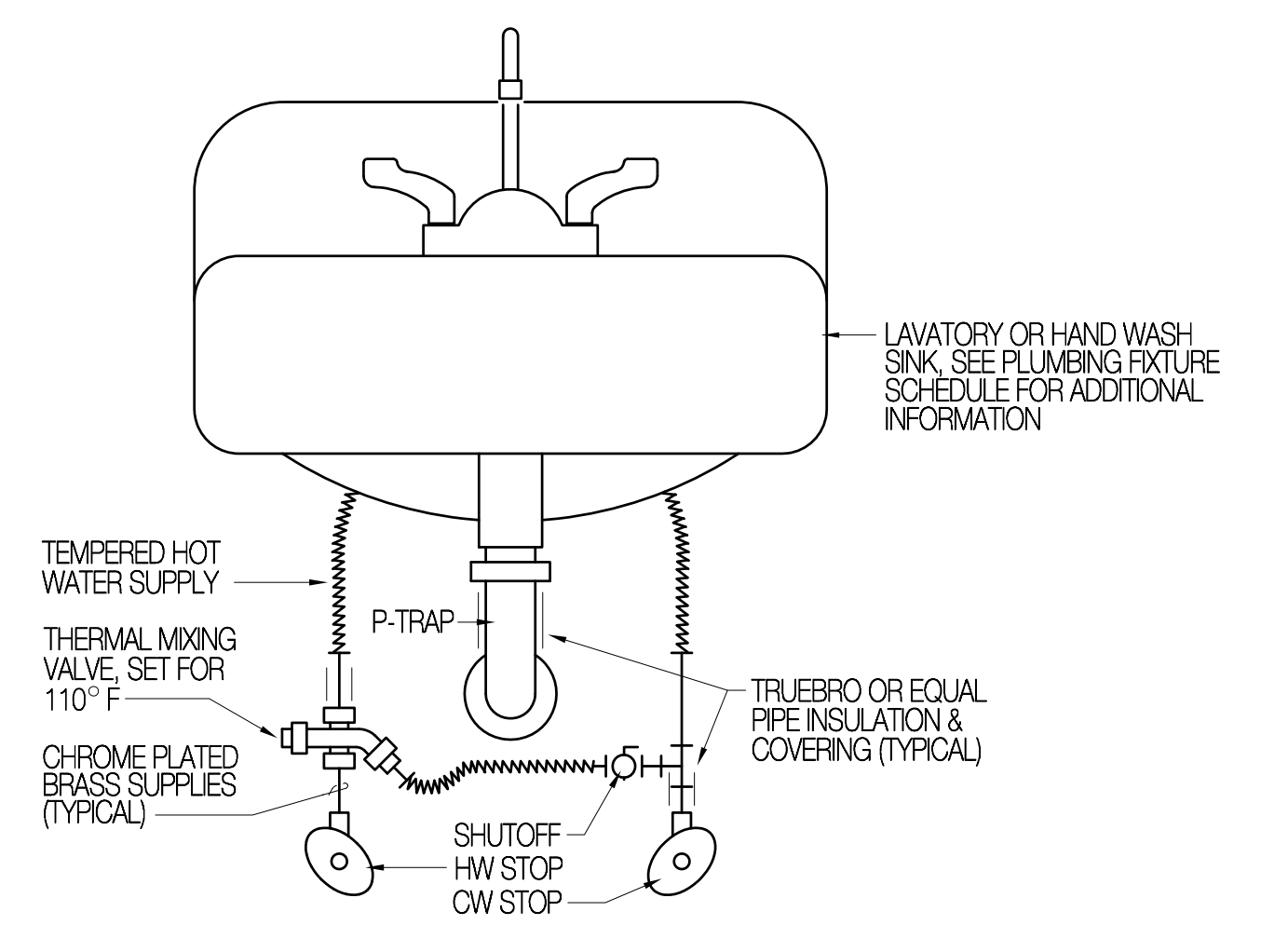
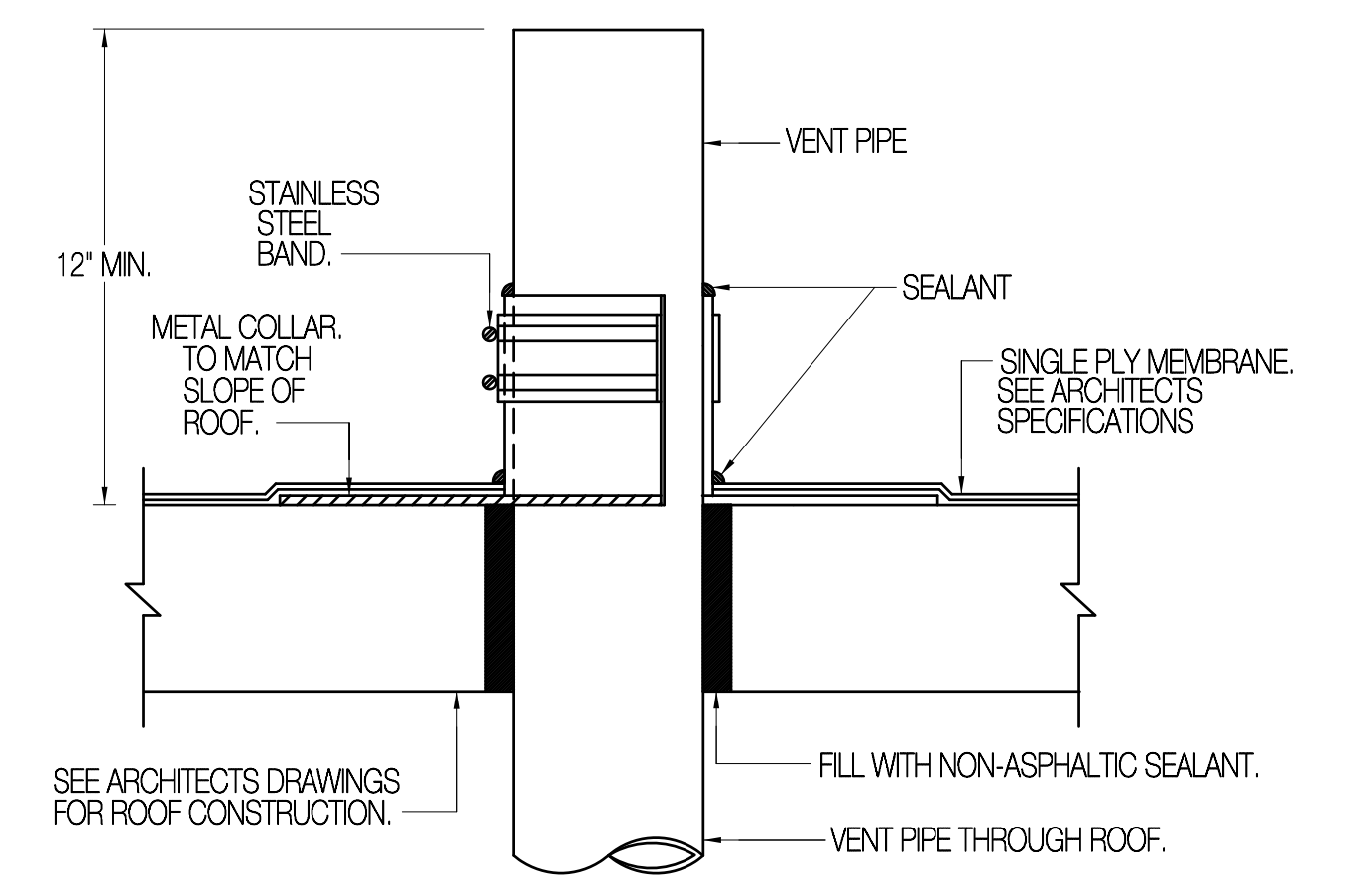
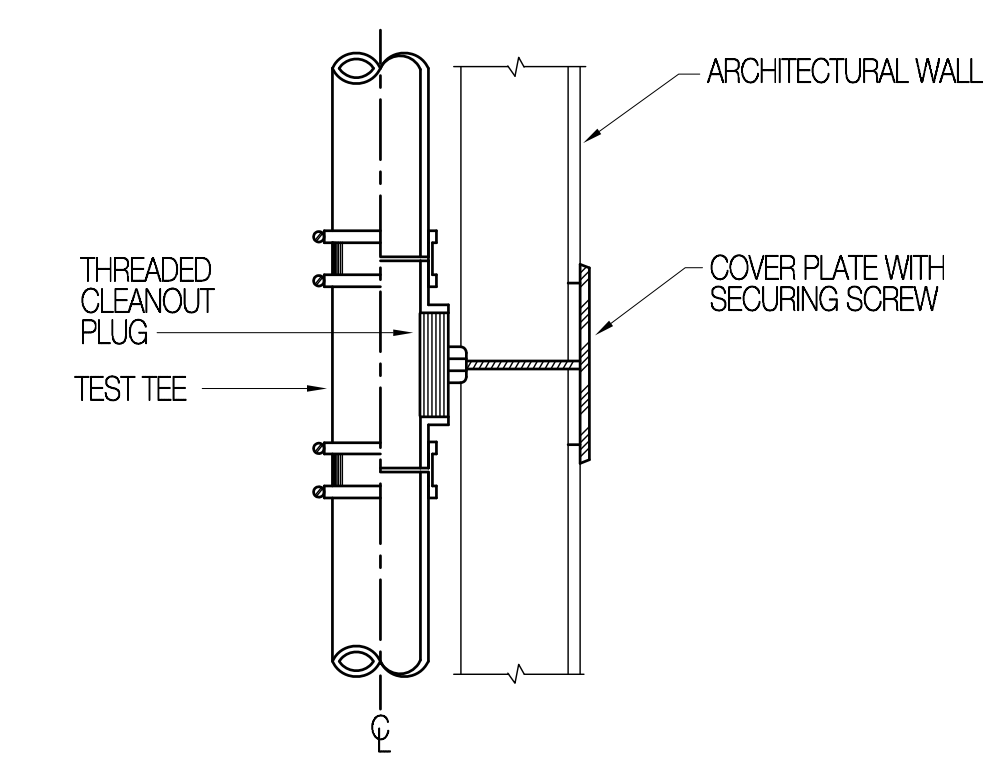
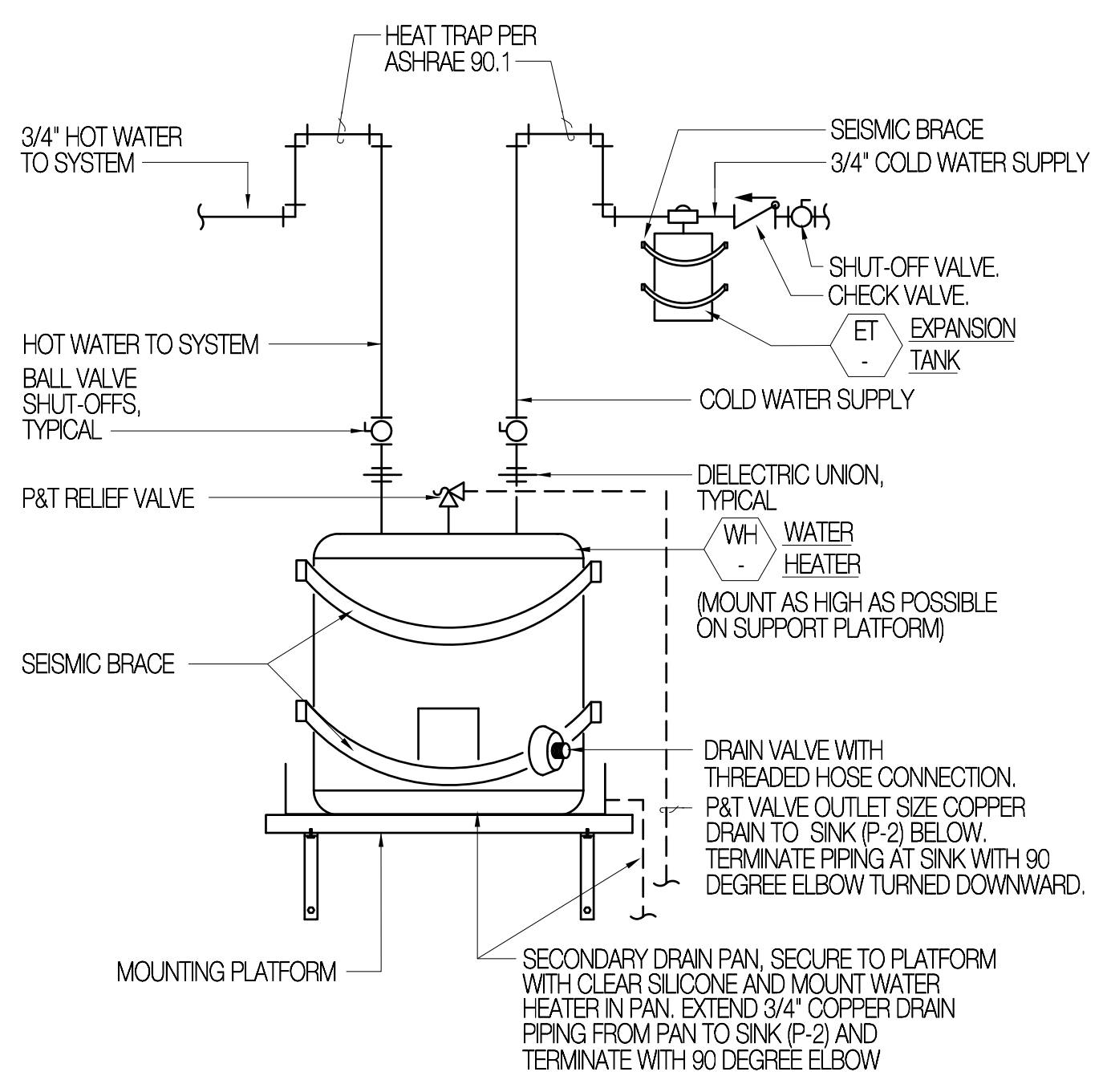
SYMBOL	NOMINAL INPUT (WATTS)	TANK VOLUME (GALLONS)	WATER CHARACTERISTICS			ELEC. CHARACTERISTICS			A.O. SMITH MODEL	REMARKS
			EWI °F	LWI °F	RECOVERY (GPH)	VOLTS	HZ	PHASE		
WH-1	2,500	20	40	122	11	240	60	1	EJGT-20	-

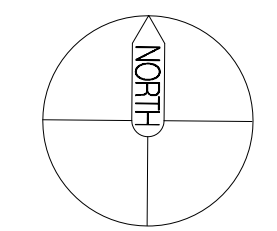
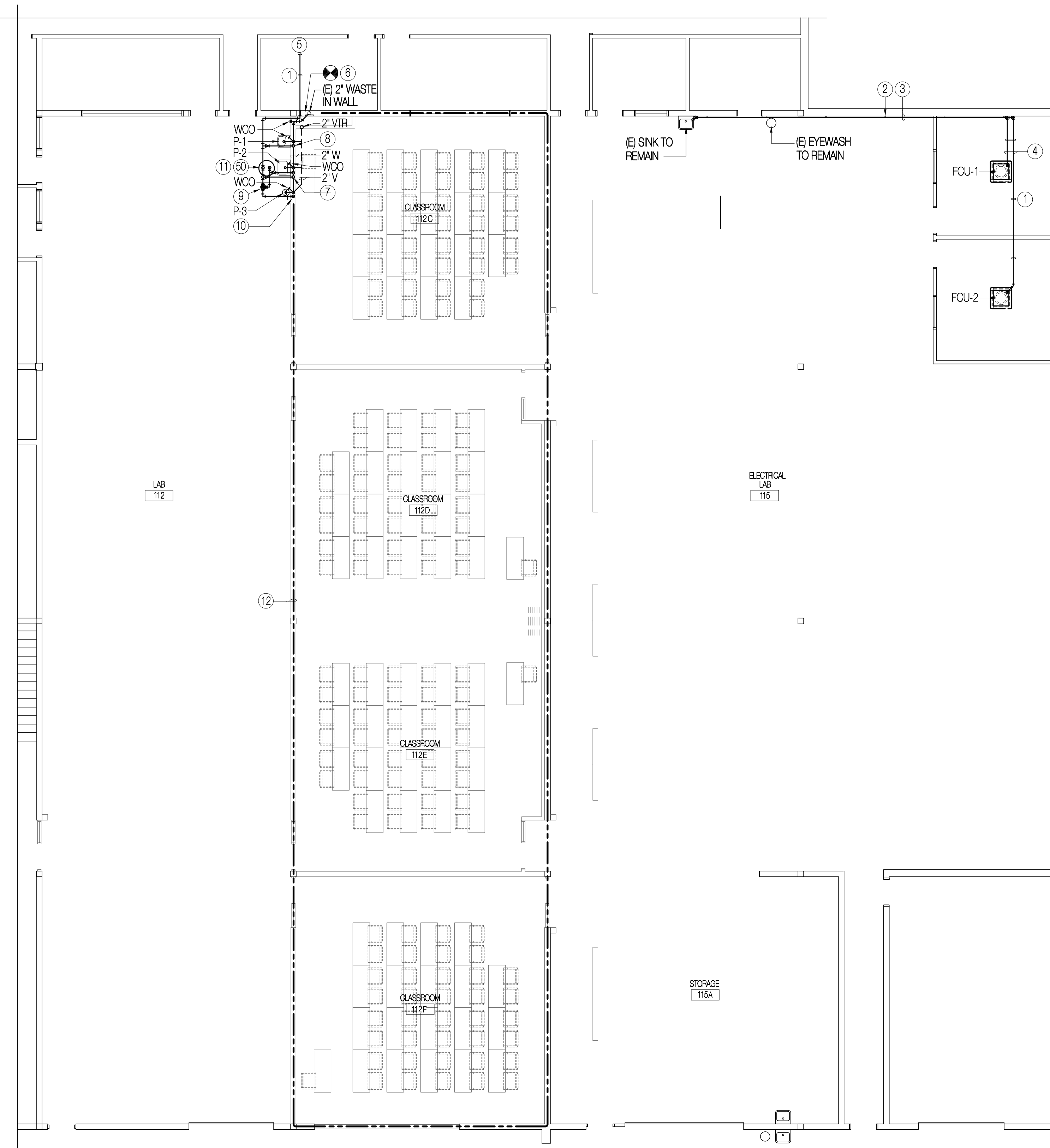
SEE SPECIFICATION SECTION 224450 FOR ADDITIONAL INFORMATION.

EXPANSION TANK (ET)

SYMBOL	TANK VOLUME GAL.	ACCEPT VOLUME GAL.	DUTY	AMTROL MODEL	ARRANGEMENT	REMARKS
ET-1	0.9	2.1	DOMESTIC WATER	ST-5	VERTICAL	-

SEE SPECIFICATION SECTION 224100 FOR ADDITIONAL INFORMATION.



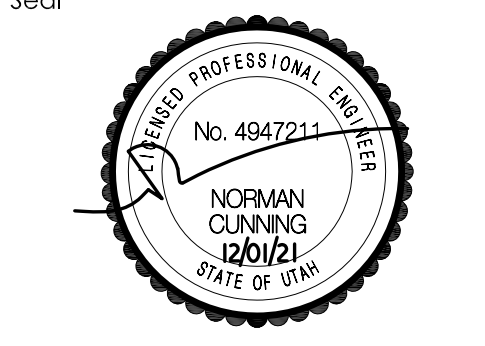
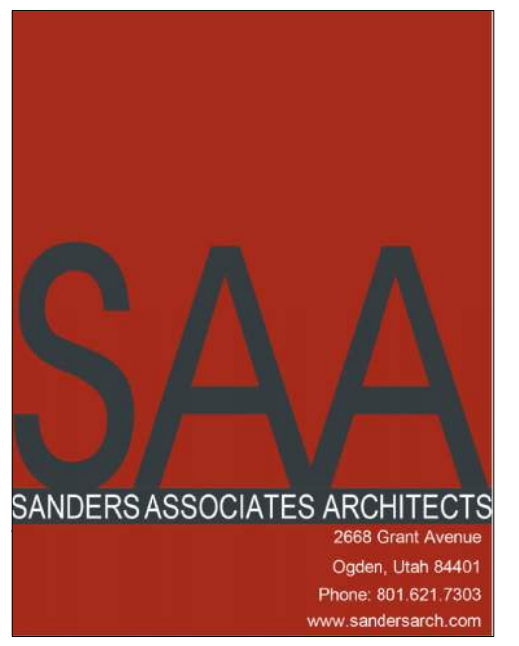
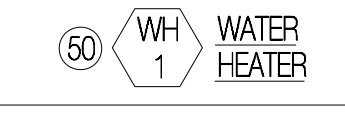


CLASSROOM AREA PLUMBING REMODEL PLAN
SCALE: 1/8" = 1'-0"

DRAWING NOTES

- ① PIPE SUPPORT, SEE DETAIL 3/P-000.
- ② UNISTRUT WALL SUPPORT, SLOPE TOWARDS EXISTING SINK.
- ③ 3/4" COPPER CONDENSATE DRAIN PIPING, TERMINATE PIPING AT SINK WITH 90 DEGREE ELBOW TURNED DOWNWARD INTO SINK.
- ④ 1/2" COPPER CONDENSATE PIPING FROM FAN COIL UNIT CONDENSATE PUMP TO MAIN DRAIN PIPING.
- ⑤ 3/4" COPPER DOMESTIC COLD WATER PIPING TO MAIN, CONNECT PIPING TO MAIN WITH SHUTOFF VALVE.
- ⑥ REMOVE FACE OF EXISTING CMU BLOCK TO EXPOSE EXISTING 2" WASTE PIPING IN WALL. PROVIDE AND INSTALL NEW 2" SANITARY TEE IN EXISTING LINE AND EXTEND AS INDICATED.
- ⑦ 1/2" DOMESTIC HOT WATER AND 1/2" DOMESTIC COLD WATER PIPING DROPS TO FIXTURE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
- ⑧ 1/2" DOMESTIC COLD WATER PIPING DROP TO FIXTURE. TERMINATE PIPING AT REQUIRED FIXTURE ROUGH-IN HEIGHT WITH QUARTER TURN STOP AND ESCUTCHEON AS REQUIRED BY SPECIFICATION.
- ⑨ 3/4" TEMPERING VALVE. INSTALL VALVE WITH UNION CONNECTIONS AND ADJUST OUTLET TEMPERATURE TO 100° F.
- ⑩ 3/4" TEMPERED WATER PIPING DROP TO WALL MOUNTED EYEWASH FIXTURE. TERMINATE PIPING AT FIXTURE ROUGH-IN HEIGHT WITH PIPE NIPPLE AND INSTALL EYE WASH WITH UNION CONNECTION.
- ⑪ WATER HEATER SHOWN OFFSET FOR CLARITY. INSTALL WATER HEATER ON SHELF ABOVE SINK FIXTURE P-2 PER DETAIL 4/P-000.
- ⑫ PROVIDE ALL MATERIALS AND PERFORM ALL LABOR REQUIRED TO MODIFY THE EXISTING FIRE PROTECTION SYSTEM TO SERVE THE REMODELED SPACE. PROTECTION SHALL BE BASED ON AN NFPA 13 LIGHT HAZARD OCCUPANCY. PROVIDE NEW RECESSED SPRINKLER HEADS WITH CHROME FINISH AND ESCUTCHEONS IN AREAS WITH CEILING TILE OR HARD GYPSUM CEILINGS. CENTER SPRINKLER HEADS IN CEILING TILES.

EQUIPMENT NOTES



Consultant

Project Name
**OGDEN WEBER TECHNICAL COLLEGE
ELECTRICAL PROGRAM RELOCATION**
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OGDEN, UTAH

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SAA Project No. 2021-24
Drawing Title

PLUMBING REMODEL PLAN

Sheet Number

P-100

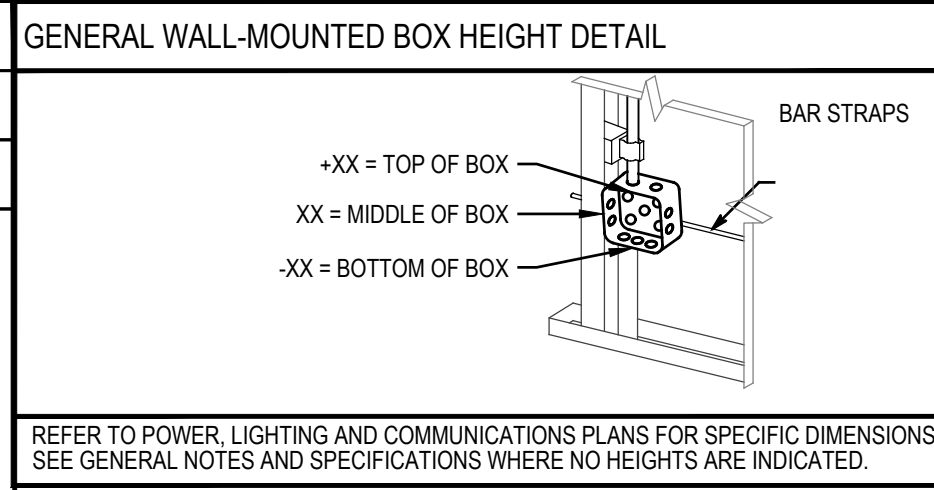
GENERAL PROJECT NOTES

- ALL ELECTRICAL INSTALLATIONS TO CONFORM TO THE LATEST NEC AND LOCAL CODES.
- THE ELECTRICAL CONTRACTOR SHALL HAVE A COORDINATION MEETING WITH THE MECHANICAL CONTRACTOR, CONSTRUCTION SUPERINTENDANT AND ANY OTHER TRADES AS REQUIRED WITHIN SEVEN DAYS OF THE START OF THE JOB TO REVIEW CODE CLEARANCE REQUIREMENTS FOR PANELS, SWITCHES, AND OTHER ELECTRICAL GEAR SPECIFICALLY FOR THIS JOB. RECORD THE MEETING IN THE SUPERINTENDANT'S LOG. REPORT UNRESOLVED CONFLICTS TO THE ARCHITECT IMMEDIATELY.
- ELECTRICAL CONTRACTOR'S PROJECT MANAGER AND ON-SITE PROJECT FOREMAN SHALL REVIEW VENDOR SUBMITTALS FOR ACCURACY PRIOR TO SUBMITTING TO ENGINEER. INACCURACIES SHALL BE CORRECTED PRIOR TO ENGINEER SUBMITTAL.
- SUBMITTALS FOR EACH SYSTEM WILL BE REVIEWED BY ENGINEER UP TO TWO TIMES--ONE FULL SUBMITTAL FOR OVERALL COMPLIANCE AND ONE RESUBMITTAL. ADDITIONAL REVIEWS WILL BE CHARGED TO CONTRACTOR AT ENGINEER'S STANDARD BILLING RATE.
- SUBMITTALS TO ENGINEER SHALL INCLUDE ALL SPECIFIED SYSTEMS IN FIRST SUBMITTAL. PARTIAL SUBMITTALS WILL BE RETURNED TO CONTRACTOR AS INCOMPLETE AND WILL BE CONSIDERED ONE OF TWO INCLUDED SUBMITTAL REVIEWS.
- THE CLARITY OF RECORD DRAWING CHANGES MADE BY THE CONTRACTOR SHALL BE EQUAL TO THE ORIGINAL DRAWINGS AS JUDGED BY THE ARCHITECT OR THE RECORD SET WILL BE RETURNED TO THE CONTRACTOR FOR CLARIFICATION.
- WHEN THE GENERAL CONTRACT CALLS FOR "RECORD" OR "AS-BUILT" DRAWINGS TO BE FURNISHED BY THE CONTRACTOR AT JOB COMPLETION, THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO FURNISH A COMPLETE SET OF "BLUE-PRINT READY" AUTOCAD ELECTRICAL DRAWINGS FOR ALL CONTRACTOR GENERATED CHANGES FROM THE DRAWINGS OF A CLARITY EQUAL TO THE ORIGINAL DRAWINGS AS JUDGED BY THE ENGINEER. CONTACT ARCHITECT FOR DISKS OR REPRODUCIBLE ORIGINAL MEDIA. PROVIDE DRAWINGS ON CD IN AUTOCAD FORMAT.
- DO NOT SCALE ELECTRICAL FLOOR PLANS. SEE ARCHITECTURAL DRAWINGS FOR ACCURATE DIMENSIONS AND FLOOR PLANS.
- ELECTRICAL DEVICES CANNOT BE SHOWN TO SCALE AND SOMETIMES OVERLAP BUILDING ELEMENTS. REFER TO ARCHITECTURAL ELEVATIONS FOR ACCURATE MOUNTING LOCATIONS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL PANEL CLEARANCES PER NEC 110.26 AND NOTIFY ALL OTHER TRADES ON THE JOB OF THESE CODE REQUIREMENTS.
- PANEL INDEXES SHALL INCLUDE ALL PERTINENT INFORMATION ON THE PANEL SCHEDULES INCLUDING INFORMATION ON LIGHTS AND OUTLETS. DO NOT SIMPLY COPY THE CIRCUIT DESCRIPTION COLUMN. INDEXES TO BE TYPEWRITTEN. UPDATE ALL SCHEDULES TO REFLECT CHANGES MADE DURING THIS PROJECT.
- COORDINATE MOUNTING HEIGHT AND LOCATION OF ALL OUTLETS, SWITCHES, AUXILIARY EQUIPMENT, AND OTHER DEVICES WITH THE ARCHITECTURAL DRAWINGS. PRIOR TO INSTALLATION, REVIEW WITH THE GENERAL CONTRACTOR THE LOCATION OF MILLWORK AS A FINAL CHECK TO PREVENT COVERING OF ELECTRICAL ITEMS.
- MOUNTING HEIGHT OF GENERAL PURPOSE OUTLETS AND SWITCHES SHALL BE 16" TO BOTTOM AND 48" TO TOP RESPECTIVELY UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL EQUIPMENT SHALL BE LOCATED SO AS NOT TO INTERFERE WITH WOOD TRIM AND MOLDINGS. THE ELECTRICAL CONTRACTOR SHALL REVIEW FINISH SCHEDULES AND ARCHITECTURAL DETAILS BEFORE ROUGH-IN OF OUTLET OR SWITCH BOXES TO PREVENT BOXES AND PLATES FROM BEING PLACED BEHIND OR IN TRIMS AND MOLDINGS. REFER SPECIAL CONDITIONS TO ARCHITECT PRIOR TO ROUGH-IN.
- CIRCUIT WIRE SIZES MUST, AT MINIMUM, MATCH NEC REQUIRED CONDUCTOR SIZES FOR CORRESPONDING OVERCURRENT PROTECTIVE DEVICES. VERIFY WITH PANEL SCHEDULES BEFORE PULLING WIRE.
- HOME RUNS MUST BE RUN EXACTLY AS SHOWN ON PLANS UNLESS OTHERWISE NOTED. DO NOT COMBINE HOME RUNS INTO ONE CONDUIT THAT ARE NOT SHOWN COMBINED ON THE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL RUN BRANCH CIRCUIT CONDUITS IN ATTIC SPACES IN A NEAT AND WORKMANLIKE MANNER SO AS TO CONSERVE OPEN SPACES AS MUCH AS POSSIBLE. HVAC DUCTWORK AND PLUMBING SHALL HAVE LOCATION PRIORITY OVER BRANCH CIRCUIT CONDUIT RUNS.
- PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR, PULLED INTO THE CONDUIT WITH THE PHASE CONDUCTOR, IN ALL SERVICE, FEEDER, AND BRANCH CIRCUITS.
- PROVIDE A NEUTRAL CONDUCTOR FOR EACH BREAKER TRIP HANDLE. NEUTRALS SHALL NOT BE SHARED BETWEEN BRANCH CIRCUITS.
- ALL CIRCUITS TO BE MINIMUM #12 CU IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED.
- MC CABLE IS NOT AN APPROVED ALTERNATE TO CONDUCTORS IN CONDUIT.
- DO NOT INSTALL MORE THAN THREE PHASE CONDUCTORS IN ANY HOME-RUN CONDUITS UNLESS SPECIFICALLY INDICATED ON DRAWINGS.
- IDENTIFY ALL OUTLET COVER PLATES WITH THE PANEL AND CIRCUIT NUMBER.
- A GFI OUTLET SHALL BE INSTALLED AT EACH LOCATION DESIGNATED BY "GFI" ON THE DRAWINGS. DOWNSTREAM PROTECTION BY A GFI OUTLET UPSTREAM IS NOT ALLOWED.
- OUTLETS, SWITCHES, AND COVER PLATES TO BE COLOR CODED (BROWN, WHITE, IVORY, OR GRAY) TO THE WALL THEY ARE MOUNTED ON AS DIRECTED BY THE ARCHITECT.
- ALL CONVENIENCE OUTLETS MUST BE MOUNTED FLUSH WITH THE COVER PLATE AND SECURED FIRMLY TO THE OUTLET BOX.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE TO MAKE SURE OUTLET BOXES ARE SET FLUSH WITH FINISH WALL SURFACES WHERE WALL PANELING OR ACOUSTICAL WALLS ARE INSTALLED OR WHERE OUTLETS ARE INSTALLED ON CARPETED RISERS.
- GFI OUTLETS SHALL BE INSTALLED AND/OR CIRCUITED SO THAT THE TRIPPING OF A GFI OUTLET IN A STUDENT ACCESSED AREA WILL NOT SHUT OFF ANY DOWN-STREAM OUTLETS.
- REMOVE ALL OLD AND/OR UNUSED EXISTING CONDUIT AND ELECTRICAL APPARATUS FROM EXTERIOR OR INTERIOR EXPOSED SURFACES.
- WHERE EXISTING ELECTRICAL EQUIPMENT IS TO REMAIN BUT THE SURFACE THAT IT IS MOUNTED ON IS TO BE REWORKED UNDER OTHER CONTRACTS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND INSTALL OR MODIFY THE EXISTING EQUIPMENT AS REQUIRED TO MEET THE DESIGN INTENT. SEE ARCHITECTURAL DRAWINGS FOR ROOF, CEILINGS, WALLS,

- SOFFITS, FLOORS, ETC.
- REMOVE ALL UNUSED CONDUITS AND CIRCUITS IN THE DEMOLITION AREA AS THEY ARE IDENTIFIED AS UNUSED OR ABANDONED.
 - REMOVE ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, AND APPARATUS AS THEY ARE IDENTIFIED AS UNUSED OR ABANDONED.
 - RELOCATE EXISTING CONDUITS AND CIRCUITS AS REQUIRED THAT ARE PRESENTLY SERVING EQUIPMENT THAT IS INTENDED TO REMAIN IN SERVICE BUT SAID CONDUITS ARE CURRENTLY RUNNING THROUGH AREAS TO BE DEMOLITIONED.
 - WHERE EXISTING CONDUIT RUNS ARE RE-USED BY SPECIAL PERMISSION FROM THE ARCHITECT, A SEPARATE GREEN, INSULATED GROUND WIRE SHALL BE PULLED IN THE CONDUIT AND BONDED AT EACH END AS REQUIRED.
 - ALL PATCH, REPAIR, REPAINT AND COVER UP REQUIRED AS A RESULT OF ELECTRICAL REMODEL IS TO BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, BUT ACTUAL WORK IS TO BE PERFORMED BY QUALIFIED PERSONNEL.
 - RE-ROUTE EXISTING CIRCUIT CONDUITS AS REQUIRED AT ALL AREAS WHERE EXISTING WALLS ARE TO BE DEMOLITIONED OR HAVE DOORWAYS CUT IN THEM. PLAN ON AN AVERAGE OF THREE, 3/4" CONDUIT RELOCATION FOR EACH PENETRATION OR WALL REMOVAL.
 - FIELD VERIFY CONDITIONS FOR NEW WIRING. SURFACE RACEWAYS MUST RECEIVE PRIOR APPROVAL FROM THE ARCHITECT BEFORE BID AND MUST BE PAINTED TO MATCH THE SURFACE ON WHICH THEY ARE MOUNTED.
 - ALL RECESSED LIGHT FIXTURES MUST CONFORM TO NEC 410
 - ALL RECESSED LIGHT FIXTURES THAT PENETRATE THE BUILDING THERMAL ENVELOPE SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING
 - COORDINATE LOCATION OF CEILING LIGHT FIXTURES WITH THE REFLECTED CEILING PLAN.
 - FIXTURE COUNTS SHOWN ON DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY FIXTURE COUNTS AS PART OF BIDDING PROCESS.
 - ELECTRICAL CONTRACTOR SHALL VERIFY CEILING THICKNESSES AND USE CEILING TRIM EXTENDERS ON DOWNLIGHTS AS REQUIRED.
 - ELECTRICAL CONTRACTOR SHALL REVIEW THE EXACT LOCATION OF ALL SKYLIGHTS WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF CEILING OUTLET BOXES.
 - SUPPORT RECESSED T-BAR MOUNT FIXTURES WITH FOUR EXTRA GALVANIZED WIRE SUPPORTS ON OPPOSITE CORNERS PER IBC. CONNECT WIRES TO BUILDING STRUCTURE.
 - CONNECT EMERGENCY CIRCUIT OF EMERGENCY LIGHT BATTERY PACK TO UNSWITCHED LIGHTING CIRCUIT SERVING FIXTURES IN AREA. INSTALL EXTRA CONDUCTORS AS REQUIRED. WIRE SO LAMPS IN NORMAL MODE ARE CONTROLLED AS NOTED ON LIGHTING PLANS. PROVIDE ADDITIONAL BALLASTS AS REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE A WIRE MESH COVER OVER ALL RECESSED LIGHTS TO KEEP BLOWN IN INSULATION AT LEAST THREE INCHES AWAY FROM THE FIXTURE HOUSING.
 - EMERGENCY LIGHT BATTERY PACKS SHALL BE CONNECTED SO AS TO BE ABLE TO OPERATE IN THE TEST MODE WHEN THE NORMAL SWITCH LEG IS TURNED ON, AND SHALL ILLUMINATE ONE FIXTURE LAMP UNLESS OTHERWISE NOTED.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ALL SWITCH LOCATIONS WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN TO PREVENT ANY SWITCHES FROM BEING LOCATED ON THE WRONG SIDE OF THE DOOR.
 - COORDINATE LOCATION OF EXIT LIGHTS WITH ARCHITECT.
 - VERIFY FIXTURE COUNT WITH REFLECTED CEILING PLAN.
 - THE BOTTOM OF WALL MOUNTED FIXTURES MUST BE A MINIMUM OF 6"-8" AFF UNLESS FIXTURES ARE ADA COMPLIANT.
 - EXHAUST FANS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
 - REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
 - ELECTRICAL CONTRACTOR SHALL FURNISH ALL MOTOR DISCONNECTS, STARTERS, AND CONTROL STATIONS FOR MECHANICAL EQUIPMENT UNLESS THE SAME IS FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT. VERIFY WITH MECHANICAL CONTRACTOR PRIOR TO BID.
 - THERMOSTAT AND CONTROL WIRING FOR MECHANICAL EQUIPMENT BY MECHANICAL CONTRACTOR.
 - THE ELECTRICAL CONTRACTOR SHALL VERIFY THE NUMBER AND LOCATION OF FIRE/SMOKE DAMPERS WITH MECHANICAL DRAWINGS. CONNECT TO 120V POWER THROUGH RELAY CONTROLLED BY FIRE ALARM.
 - PROVIDE SAFETY DISCONNECTS AS REQUIRED AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT. PROVIDE FUSING AND RATINGS PER NAMEPLATE INFORMATION OF EQUIPMENT SERVED.
 - DISCONNECT SWITCHES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL ELECTRICAL SWITCHES AND MOTOR CONTROL FOR PROPER CODE CLEARANCES. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS WITH OTHER TRADES REGARDING PROPER EQUIPMENT CLEARANCES.
 - ALL DISCONNECT SWITCHES FOR MOTORS SHALL BE RATED A MINIMUM OF 22000 AIC UNLESS OTHERWISE SHOWN.
 - BEFORE RUNNING CONDUITS, PLACING OUTLETS OR ORDERING EQUIPMENT, THE CONTRACTOR SHALL REVIEW THE SPECIFICATIONS AND DESIGN AND SHOP DRAWINGS OF THE OTHER TRADES SERVED BY THE CONDUIT, OUTLETS, AND/OR EQUIPMENT.
 - PROVIDE NEUTRAL CONNECTION TO 208/240/480V, SINGLE-PHASE EQUIPMENT. RUN SEPARATE GROUND WIRE TO ALL OUTDOOR UNITS AND BOND TO THE EQUIPMENT GROUND LUG.
 - ELECTRICAL CONTRACTOR SHALL INSTALL A PULL STRING IN ALL COMMUNICATIONS, SECURITY, AND OTHER LOW VOLTAGE CONDUITS FOR USE BY LOW VOLTAGE SYSTEM CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL INSTALL A PULL STRING IN ALL UNUSED POWER AND LIGHTING CONDUITS.
 - BID TO RUN FIRE ALARM RACEWAYS CONCEALED. ANY SURFACE RACEWAYS (WIEMOLD #700 ONLY) MUST BE PRIOR APPROVED BY THE ARCHITECT/OWNER AND PAINTED TO MATCH THE SURFACE IT IS MOUNTED ON.
 - COORDINATE LOCATION OF ALL FIRE ALARM DEVICES WITH NFPA AND ADA REQUIREMENTS. COORDINATE LOCATIONS WITH MILLWORK AS REQUIRED.
 - REVIEW THE STATE DESIGN REQUIREMENTS MANUAL PRIOR TO BID.
 - WHERE THERE ARE CONFLICTS IN THE DRAWINGS AND/OR SPECIFICATIONS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BID. WHERE NO NOTIFICATION IS GIVEN THE MORE STRINGENT INTERPRETATION (GENERALLY INTERPRETED TO BE THE MORE COSTLY) WILL BE ENFORCED.

ELECTRICAL LEGEND

ANNOTATIONS		ELECTRICAL LEGEND	
	DUPLEX OUTLET: GROUND FAULT INTERRUPTER		ELECTRIC WATER COOLER OUTLET: GFCI UNLESS NOTED
	DUPLEX OUTLET: WEATHERPROOF		DUPLEX OUTLET: WEATHERPROOF-IN-USE COVER
	DOUBLE DUPLEX OUTLET		DOUBLE DUPLEX OUTLET: GROUND FAULT INTERRUPTER
	SPECIAL OUTLET: SEE PANEL SCHEDULE		FLUSH IN USE BOX FLOOR. NUMERIC VALUES GIVEN FOR "P" AND "C" REPRESENT: P = QUANTITY OF DUPLEX RECEPTACLES C = QUANTITY OF DATA PORTS S = DESIGNATION REPRESENTS PROVISIONS FOR OWNER AUXILIARY SYSTEMS CONNECTIONS SEE FLOOR BOX SCHEDULE FOR FURTHER DESCRIPTION
	FLUSH IN USE BOX WALL. NUMERIC VALUES GIVEN FOR "P" AND "C" REPRESENT: P = QUANTITY OF DUPLEX RECEPTACLES C = QUANTITY OF DATA PORTS S = DESIGNATION REPRESENTS PROVISIONS FOR OWNER AUXILIARY SYSTEMS CONNECTIONS SEE FLOOR BOX SCHEDULE FOR FURTHER DESCRIPTION		EMERGENCY LIGHT
	BATTERY PACK		EXIT LIGHT: CEILING - FACE(S) AS SHOWN
	EXIT LIGHT: WALL - FACE(S) AS SHOWN		EXIT LIGHT: FACE SIDE
	EXIT LIGHT: DIRECTIONAL ARROWS, DOUBLE FACE		DISCONNECT; NO OVER-CURRENT PROTECTION
	RECESSED FIXTURE		DISCONNECT WITH OVER-CURRENT PROTECTION (CIRCUIT BREAKER STYLE OR AS SPECIFIED)
	STRIP LIGHT		MOTOR PROTECTIVE THERMAL SWITCH
	LINEAR FIXTURE		QUANTITY OF CONDUCTORS: SHORT LINES = PHASE / SWITCH, LONG LINES = NEUTRAL
	EMERGENCY FIXTURE		HOME-RUN
	WALL MOUNT FIXTURE		CIRCUITING: LINE VOLTAGE
	SUSPENDED FIXTURE		CIRCUITING: CONTROL
	SUSPENDED FIXTURE		CIRCUITING: LINE VOLTAGE + DIMMING CONTROL
LIGHTING FIXTURES		LIGHTING CONTROL	
	FIXTURE LUMEN INDICATOR: XXX-XXX(X) FIXTURE TYPE FIXTURE ACCESSORY APPEND		OCCUPANCY SENSOR: DUAL TECHNOLOGY
	OCCUPANCY SENSOR: VACANCY SENSOR FUNCTION		OCCUPANCY SENSOR: OCCUPANCY SENSOR FUNCTION
	OCCUPANCY SENSOR: # INDICATES WATTS/TOPPER CAT# FOR COVERAGE PATTERN OR EQUIVALENT AS SPECIFIED		PHOTOCELL
	TIME CLOCK		PUSH BUTTON
	SINGLE POLE SWITCH: "X" INDICATES SWITCH GROUP		THREE WAY SWITCH
	PILOT LIGHT SWITCH		DIMMER SWITCH: LED: 600 W MINIMUM
	WALL MOUNT OCCUPANCY SENSOR: VACANCY SENSOR FUNCTION		WALL MOUNT OCCUPANCY SENSOR: OCCUPANCY SENSOR FUNCTION
LOCAL CONTROLS		COMMUNICATIONS	
	FIRE ALARM CONTROL PANEL		COMMUNICATIONS RACEWAY: OPEN D-RINGS OR J-HOOKS. SEE DETAILS AND SPECIFICATIONS
	FIRE ALARM REMOTE ANNUNCIATOR PANEL		PHONE BACKBOARD
	NOTIFICATION APPLIANCE CIRCUIT PANEL		COMMUNICATIONS ENCLOSURE
	FIRE SMOKE DAMPER		TELEVISION OUTLET (4-11/16" x 2 3/4" J-BOX; 5/8" 1-GANG MUD RING; 1" CONDUIT, (1)COAX BY OWNER)
	SMOKE DETECTOR		COMMUNICATIONS OUTLET, 4-PORT DEVICE, COMMUNICATIONS BOX (SEE COMMUNICATIONS RACEWAY SCHEDULE); 1.25" CONDUIT, 4-PORT KEYSTONE FACEPLATE; (1)CABLE/JACK BY OWNER
	DUCT DETECTOR		COMMUNICATIONS OUTLET, 2-PORT DEVICE, COMMUNICATIONS BOX (SEE COMMUNICATIONS RACEWAY SCHEDULE); 1.25" CONDUIT, 4-PORT KEYSTONE FACEPLATE; (2)CABLES/JACKS BY OWNER
	HEAT DETECTOR		COMMUNICATIONS OUTLET, 3-PORT DEVICE, COMMUNICATIONS BOX (SEE COMMUNICATIONS RACEWAY SCHEDULE); 1.25" CONDUIT, 4-PORT KEYSTONE FACEPLATE; (3)CABLES/JACKS BY OWNER
	FIRE ALARM FLOW SWITCH		COMMUNICATIONS OUTLET, 6-PORT DEVICE, COMMUNICATIONS BOX (SEE COMMUNICATIONS RACEWAY SCHEDULE); 1.25" CONDUIT, 4-PORT KEYSTONE FACEPLATE; (X)CABLES/JACKS BY OWNER
	FIRE ALARM TAMPER SWITCH		FIRE ALARM CONTROL PANEL
	FIRE ALARM CONTROL / RELAY MODULE		FIRE ALARM REMOTE ANNUNCIATOR PANEL
	FIRE ALARM MONITOR MODULE		NOTIFICATION APPLIANCE CIRCUIT PANEL
	FIRE ALARM STROBE; "X" = MINIMUM CANDELA RATING		FIRE SMOKE DAMPER
	CEILING MOUNTED FIRE ALARM STROBE; "X" = MINIMUM CANDELA RATING		SMOKE DETECTOR
	FIRE ALARM HORN AND STROBE; "X" = MINIMUM CANDELA RATING		DUCT DETECTOR
	CEILING MOUNTED FIRE ALARM VOICE EVAC SPEAKER AND STROBE; "X" = MINIMUM CANDELA RATING		HEAT DETECTOR
	FIRE ALARM VOICE EVAC SPEAKER AND STROBE; "X" = MINIMUM CANDELA RATING		FIRE ALARM FLOW SWITCH
	CEILING MOUNTED FIRE ALARM VOICE EVAC SPEAKER AND STROBE; "X" = MINIMUM CANDELA RATING		FIRE ALARM TAMPER SWITCH
	FIRE ALARM PULL STATION		FIRE ALARM CONTROL / RELAY MODULE
	REMOTE TEST SWITCH WITH VISUAL INDICATOR		FIRE ALARM MONITOR MODULE
POWER AND DISTRIBUTION			FIRE ALARM STROBE; "X" = MINIMUM CANDELA RATING
	DISTRIBUTION PANEL		CEILING MOUNTED FIRE ALARM STROBE; "X" = MINIMUM CANDELA RATING
	PANELBOARD		FIRE ALARM HORN AND STROBE; "X" = MINIMUM CANDELA RATING
	METER / METER SOCKET		CEILING MOUNTED FIRE ALARM VOICE EVAC SPEAKER AND STROBE; "X" = MINIMUM CANDELA RATING
	SIMPLEX OUTLET		FIRE ALARM VOICE EVAC SPEAKER AND STROBE; "X" = MINIMUM CANDELA RATING
	SIMPLEX OUTLET: GROUND FAULT INTERRUPTER		CEILING MOUNTED FIRE ALARM VOICE EVAC SPEAKER AND STROBE; "X" = MINIMUM CANDELA RATING
	DUPLEX OUTLET		FIRE ALARM PULL STATION
	FACELESS GFCI PROTECTION DEVICE		REMOTE TEST SWITCH WITH VISUAL INDICATOR

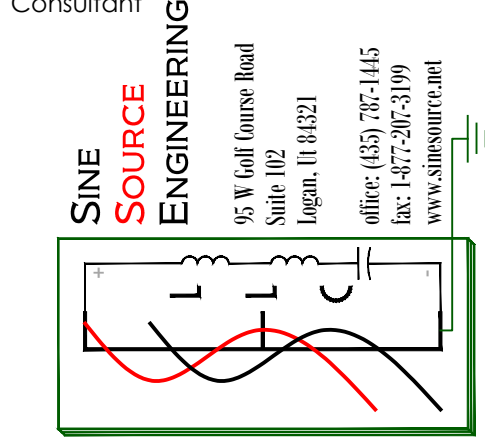
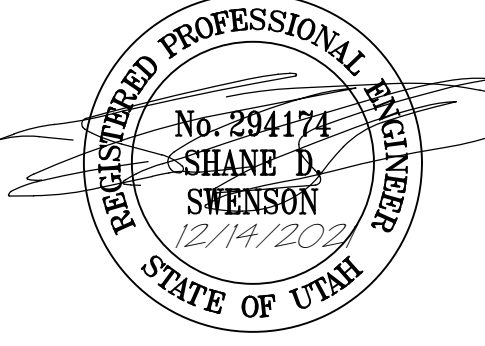


SHEET INDEX

#	Sheet Title
EE001	ABBREVIATIONS, G.P.N., LEGEND & SHEET INDEX
ED101	ELECTRICAL DEMOLITION PLAN
EL201	LIGHTING PLAN
EL501	LIGHTING DETAILS
EP301	POWER PLAN
EP501	ELECTRICAL DETAILS
EP602	ELECTRICAL SCHEDULES
ET401	ELECTRONIC SYSTEMS PLAN

ELECTRICAL ABBREVIATIONS

A	AMPERE	LTG	LIGHTING
AF	AMP FUSE	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MECH	MECHANICAL
AFI	ARC-FAULT CIRCUIT-INTERRUPTER	MFR	MANUFACTURER
AIC	AMPERE INTERRUPTING CAPACITY	MIN	MINIMUM
AL	ALUMINUM	MLO	MAIN LUGS ONLY
ARCH	ARCHITECT(URAL)	MTD	MOUNTED
AS	AMP SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NECA	NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION
BLDG	BUILDING	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BKBD	BACKBOARD	NEUT	NEUTRAL
C	CONDUIT	NFC	NATIONAL FIRE CODE
CAB	CABINET	NC	NORMALLY CLOSED
CAT	CATALOG/CATEGORY	NIC	NOT IN CONTRACT
C/B	CIRCUIT BREAKER	NL	NIGHT LITE
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CONDUIT ONLY	OCP	OVERCURRENT PROTECTION
COMM	COMMUNICATION	P	POLE
CONN	CONNECTION	PH	PHASE
CU	COPPER	PNL	PANEL
DEMO	DEMOLITION/DEMOLISH	PWR	POWER
DISC	DISCONNECT	QTY	QUANTITY
DN	DOWN	RECP	RECEPTACLE
DWG	DRAWING	REQD	REQUIRED
EA	EACH	RGSC	RIGID GALVANIZED STEEL CONDUIT
ELEC	ELECTRICAL	RM	ROOM
ELEV	ELEVATOR	SCHED	SCHEDULE
EMER, EM	EMERGENCY	SECT	SECTION
EMT	ELECTRICAL METALLIC TUBING	SP	SINGLE POLE
EOLR	END OF LINE RESISTOR	SN	SOLID NEUTRAL
EQUIP	EQUIPMENT	SPEC	SPECIFICATION
EX, EXIST	EXISTING	SW	SWITCH
FBO	FURNISHED BY OTHERS	SWBD	SWITCHBOARD
FCU	FAN COIL UNIT	SWGR	SWITCH GEAR
FF	FINISHED FLOOR	SYS	SYSTEM
FIXT	FIXTURE	TEMP	TEMPORARY
FLEX	FLEXIBLE METALLIC CONDUIT (STEEL)	TELE	TELEPHONE
FLUOR	FLUORESCENT	XFMR	TRANSFORMER
FT	FEET OR FOOT	T-STAT	THERMOSTAT
GFI	GROUND FAULT INTERRUPTER	TWP	TWISTED PAIR
GND	GROUND	TWSP	TWISTED SHIELDED PAIR
HP	HORSEPOWER	TYP	TYPICAL
HVAC	HEATING, VENTILATING & AIR CONDITIONING	ULC	UNIFORM BUILDING CODE
IG	ISOLATED GROUND	UL	UNDERWRITERS LABORATORY
IMC	INTERMEDIATE METAL CONDUIT (INCHES)	UMC	UNIFORM MECHANICAL CODE
IN	INCHES	UNO	UNLESS NOTED OTHERWISE
ISC	SHORT CIRCUIT AMPERES, KA	V	VOLT OR VOLTAGE
JB, J-BOX	JUNCTION BOX	VA	VOLT AMPERE
KCMIL	THOUSAND CIRCULAR MILS	W	WATT
KVA	KILOVOLT AMPERE	WI	WITH
KW	KILOWATT	WG	WIRE GUARD
		WP	UL LISTED WEATHERPROOF, NEMA 3R or 4



ELECTRICAL PROGRAM RELOCATION
 Ogden Weber Technical College
 Ogden, Utah

Issue	No.	Date	Description

SAA Project No. 2021-24
 Drawing Title
ABBREVIATIONS, G.P.N., LEGEND & SHEET INDEX

Sheet Number
EE001

TIME: 16 OCT 2013 - 12:28PM DONALD J PATTON - T:\JOBS\2012\1072 DWG\ELECTRICAL\PROGRAM RELOCATION\01 DRAWINGS\05 ELECTRICAL\ABBREVIATIONS, G.P.N., LEGEND & SHEET INDEX.DWG
 LAST SAVED: 05 Dec 21

SHEET KEYED NOTES

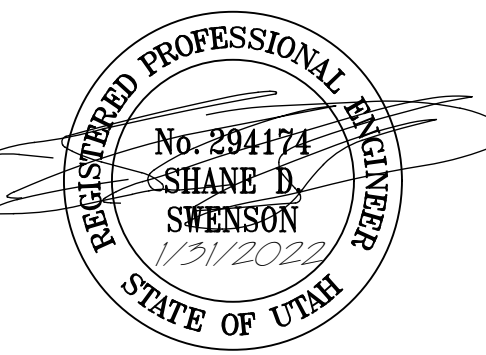
1. EXISTING PANELS TO REMAIN.
2. REMOVE EXISTING FIXTURES AND/OR LIGHTING CONTROL AS INDICATED.
3. REMOVE EXISTING OUTLETS AS INDICATED.
4. REMOVE EXISTING COMMUNICATIONS DEVICES AS INDICATED.
5. REMOVE EXISTING FIRE ALARM DEVICES AS INDICATED.
6. REMOVE EXISTING ELECTRONIC SYSTEMS DEVICES AS INDICATED.
7. DISCONNECT EXISTING EQUIPMENT FOR REMOVAL.
8. ROOM NOT ACCESSIBLE FOR EXISTING CONDITION DOCUMENTATION. REMOVE ALL EXISTING ELECTRICAL INSTALLATIONS AS REQUIRED.
9. DOORS TO BE CUT INTO MASONRY BY OTHERS. RE-ROUTE ALL EXISTING CIRCUITS, OF ALL SYSTEMS (POWER, COMM, CONTROLS, FA, ETC.) THAT RUN HORIZONTALLY, ACROSS WALL, FROM GRADE TO DECK, UP TO CEILING. VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
10. OWNER TO REMOVE EXISTING I.T. RACK.
11. RELOCATE DISCONNECT TO NEW LOCATION SHOWN ON NEW POWER PLAN.
12. INCLUDE COSTS TO INVESTIGATE EXISTING WIREWAY FILLCIRCUITS. INCLUDE LINE ITEM COST PLUS ALLOWANCE OF \$10K TO REMOVE WIREWAY AND REROUTE CIRCUITS.
13. REMOVE EXISTING TIME CLOCK. RE-CIRCUIT CONTROLLED CIRCUITS TO LIGHTING CONTROL/RELAY PANEL. UPDATE FIELD REDLINE SET WITH CONTROLLED RELAYS/CIRCUITS.
14. REMOVE PANEL INDICATED. RELOCATE CIRCUITS TO PANEL "C".
15. REPLACE PANEL WITH HIGH CIRCUIT CAPACITY PANEL. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
16. DISCONNECT PROJECTOR FOR OWNER RELOCATION FROM EXISTING CLASSROOM TO NEW CLASSROOM.

GENERAL SHEET NOTES

1. DEMOLITION PLAN IS ENGINEER'S ATTEMPT TO ASSIST BIDDERS IN ESTIMATING REMOVAL COSTS OF EXISTING EQUIPMENT. PLAN IS NOT INTENDED TO BE ALL-INCLUSIVE, AND IT IS THE BIDDERS RESPONSIBILITY TO VERIFY ALL EXISTING EQUIPMENT AND DEVICES TO BE REMOVED PRIOR TO BIDDING.
2. EXISTING ITEMS TO BE REMOVED ARE INDICATED AS BOLD/DASHED. ITEMS TO REMAIN ARE SHOWN AS LIGHT/SOLID.
3. MAINTAIN CIRCUIT CONTINUITY FOR DEVICES DOWNSTREAM OF ITEMS TO BE REMOVED.
4. WHERE DEVICES ARE SHOWN TO BE REMOVED, COMPLETELY REMOVE ALL RACEWAYS, BOXES AND CONDUCTORS TO PANEL OR TO FIRST WHICH REMAINS ACTIVE IN CIRCUIT PATH.

ELECTRICAL DEMOLITION PLAN

SCALE 1/8" = 1'-0"



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ELECTRICAL PROGRAM RELOCATION

Ogden Weber Technical College

Ogden, Utah

Project Name

Issued No.	Date	Description

Revision

No.	Date	Description
2	1.31.2022	OWNER ADJUSTMENTS

SA Project No. 2021-24
 Drawing Title

ELECTRICAL DEMOLITION PLAN

Sheet Number

ED101

TIME: 16 OCT 2014 - 12:25PM DONALD J PATTON - T:\0885\021077 DWG\TC ELECTRICAL PROGRAM RELOCATION\01 DRAWINGS\08 ELECTRICAL\SINE SOURCE PROJECT\SHEETS\ED101 ELECTRICAL DEMOLITION PLAN.DWG LAST SAVED: 31 Jan 22

SHEET KEYED NOTES

1. PROVIDE EM BATTERY BALLAST IN FIXTURES NOTED. CONNECT BATTERY TO UNSWITCHED CIRCUIT CONDUCTOR OF CIRCUIT SERVING FIXTURE. CONNECT LAMPS TO OPERATE WITH SWITCH(S) IN NORMAL MODE.
2. CONNECT FIXTURE TO OUTPUT OF INVERTER INDICATED. CONNECT FOR FIXTURES TO BE ON IN NORMAL MODE AND OVERRIDE ON WITH NORMAL POWER FAILURE. CONNECT FIXTURES TO OPERATE WITH SWITCH(S) IN NORMAL MODE.
3. INVERTER SHOWN AT LOCATION INDICATED FOR DRAWING CLARITY. LOCATE ALL INVERTERS 10'-0" A.F.F. IN ASSOCIATED ROOM AT LOCATION FIELD APPROVED BY OWNER AND ARCHITECT.
4. CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING SPACE. VERIFY CIRCUIT NUMBER AND UPDATE FIELD REDLINE SET.
5. SUSPEND FIXTURES TO 18'-0" A.F.F.
6. PROVIDE LIGHTING CONTROL OVERRIDE SWITCHES AT LOCATIONS INDICATED. PROVIDE CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS. SEE DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION. ENGRAVE COVER PLATE WITH ZONES CONTROLLED. PROVIDE SEPARATE BUTTON LABELING FOR EACH ZONE INDICATED. MULTIPLE BUTTONS SHALL BE MOUNTED IN A SINGLE-GANG COVER.
7. LIGHTING CONTROL PANEL SWITCH LEGS. REFER TO LIGHTING CONTROL PANEL SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION. SWITCH LEGS MAY BE ROUTED TO PANEL IN SAME CONDUITS AS CONSTANT POWER FEEDS. CONTRACTOR TO DERATE/UPSIZING CONDUCTORS & CONDUIT WHERE REQUIRED.
8. PROVIDE DIMMING CONTROL TO RELAY PANEL. EXTEND TO ADDITIONAL FIXTURES IN SWITCH-GROUP PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. INTEGRATE NEW SWITCHES INTO EXISTING LIGHTING CONTROL.
10. PROVIDE NEW LIGHTING CONTROL FOR EXISTING LIGHTING TO REMAIN.
11. CONNECT TO UNSWITCHED SOURCE CONDUCTOR.
12. RE-CIRCUIT EXISTING FIXTURES AS INDICATED.
13. REVISE SWITCHING FOR BOTH ROOMS TO BE CONTROLLED AT BOTH LOCATIONS.

GENERAL SHEET NOTES

1. CONNECT OCCUPANCY SENSORS TO ENABLE ALL SWITCHES IN CONTROLLED SPACE.
2. CONNECT OCCUPANCY SENSORS, BATTERY BALLASTS, EXIT SIGNS, ETC. TO UNSWITCHED SOURCE CONDUCTOR.
3. SEE POWER PLAN FOR ELECTRICAL DISTRIBUTION, EQUIPMENT AND LIGHTING RELAY PANEL LOCATIONS.
4. ALL CONDUIT SHALL BE RAN OVERHEAD UNLESS OTHERWISE NOTED.
5. EXISTING LIGHTING, ELECTRICAL AND ELECTRONIC DEVICES SHOWN LIGHT. NEW DEVICES SHOWN DARK.
6. NEW DEVICES SHOWN ON EXISTING WALLS SHALL FINISH FLUSH WITH WALL UNLESS OTHERWISE NOTED. CUT, PATCH AND REPAIR SURFACES AS REQUIRED.
7. REFER TO ARCHITECTURAL DRAWINGS FOR SUSPENSION HEIGHTS AND PENDANT LENGTHS OF SUSPENDED FIXTURES.
8. ALL EMERGENCY LIGHTING BATTERIES SHALL PROVIDE A MINIMUM OF 90 MINUTES ILLUMINATION PER NEC 700.12(A) AND IBC 1006. SEE SPEC SECTION 265100 FOR ADDITIONAL REQUIREMENTS.
9. LOCAL DIMMING CONTROL WIRING IN ENCLOSED ROOMS NOT CONNECTED TO RELAY PANEL NOT EXPLICITLY SHOWN. CONTRACTOR WIRING AS REQUIRED FOR PROPER SYSTEM OPERATION.
10. ALL NEW LIGHTING CONTROLS (SWITCH, OCCUPANCY SENSORS, DIMMERS, ETC.) SHALL BE LITHONIA N-LIGHT, WATTSTOPPER DLM, DOUGLASS DIALOG OR OTHER SIMILAR SYSTEM THAT ALLOWS SWITCHES AND SENSORS TO COMMUNICATE TO MEET MANUAL ON, AUTO OFF REQUIREMENTS OF ENERGY CODE.
11. PROVIDE DEFERRED SUBMITTAL FOR SEISMIC SUPPORTS FOR FIXTURES AS SPECIFIED.

LIGHTING PLAN

SCALE 1/8" = 1'-0"



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ELECTRICAL PROGRAM RELOCATION

Ogden Weber Technical College

Ogden, Utah

Project Name

Issued No.	Date	Description

Revision

No.	Date	Description
1	1.14.2022	PLAN REVIEW

SA Project No. 2021-24
 Drawing Title

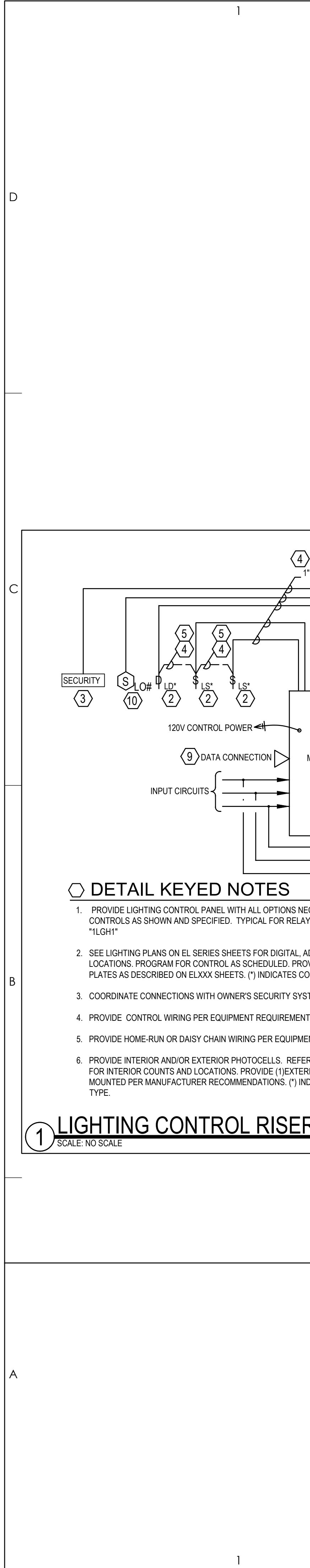
LIGHTING PLAN

Sheet Number

EL201

TIME: 15 OCT 2021 - 12:25PM DONALD J PATTON - T:\085\2021\077 DWG\TC ELECTRICAL PROGRAM RELOCATION\01 DRAWINGS\05 ELECTRICAL\SINE SOURCE PROJECTS\SHEETS\EL201 LIGHTING PLAN.DWG LAST SAVED: 14 Jan 22

TIME: 15 OCT 2013 - 12:25PM DONALD J PATTON - T:\JOBS\2012\1072\DWG\EL501 ELECTRICAL PROGRAM RELOCATION\DWG\EL501 LIGHTING DETAILS.DWG
 LAST SAVED: 31 Jun 22



DETAIL KEYED NOTES

1. PROVIDE LIGHTING CONTROL PANEL WITH ALL OPTIONS NECESSARY TO PROVIDE CONTROLS AS SHOWN AND SPECIFIED. TYPICAL FOR RELAY PANELS "1LCH1" & "1LGH1"
2. SEE LIGHTING PLANS ON EL SERIES SHEETS FOR DIGITAL ADDRESSABLE SWITCH LOCATIONS. PROGRAM FOR CONTROL AS SCHEDULED. PROVIDE ENGRAVED COVER PLATES AS DESCRIBED ON ELXXX SHEETS. (*) INDICATES CONTROL TYPE.
3. COORDINATE CONNECTIONS WITH OWNER'S SECURITY SYSTEM PROVIDER.
4. PROVIDE CONTROL WIRING PER EQUIPMENT REQUIREMENTS.
5. PROVIDE HOME-RUN OR DAISY CHAIN WIRING PER EQUIPMENT REQUIREMENTS.
6. PROVIDE INTERIOR AND/OR EXTERIOR PHOTOCELLS. REFER TO LIGHTING PLAN FOR INTERIOR COUNTS AND LOCATIONS. PROVIDE (1) EXTERIOR SENSOR ROOF MOUNTED PER MANUFACTURER RECOMMENDATIONS. (*) INDICATES CONTROL TYPE.
7. REFER TO LIGHTING PLANS FOR SWITCHING GROUPS/HOME RUNS.
8. PROVIDE CONSTANT POWER TO EXIT SIGNS, EM BALLASTS, NIGHT-LIGHTS, OCCUPANCY SENSORS, ETC.
9. PROVIDE LAN CONNECTION TO CONTROL PANEL FOR REMOTE OWNER CONTROL. PROVIDE ALL HARDWARE/PROGRAMMING REQUIRED FOR SYSTEM INTERFACES AS SPECIFIED.
10. PROVIDE OCCUPANCY SENSORS/RELAYS COMPATIBLE WITH LIGHTING CONTROL SYSTEM. SENSORS MAY BE USED FOR LOCAL AND SYSTEM CONTROL. (*) INDICATES CONTROL TYPE.
11. REFER TO LIGHTING PLANS FOR DIMMING GROUPS/HOME-RUNS. INCLUDE DIMMING CONTROL WIRE PER SYSTEM/FIXTURE REQUIREMENTS.

1 LIGHTING CONTROL RISER DIAGRAM

SCALE: NO SCALE

LIGHTING CONTROL INPUT SCHEDULE		
TYPE	DESCRIPTION	CONTROLLED RELAYS
T1	INTERIOR TIMECLOCK ON/OFF (SCHEDULE PER OWNER)	1LC1:1,3
T2	EXTERIOR TIMECLOCK ON/OFF (ON AT DUSK, OFF PER OWNER)	1LC1:2,4
SS	SECURITY SYSTEM INTERFACE	1LC1:1-4
B1	BLINK WARNING	1LC1:1,3
D1	TOGGLE W/ TIME OUT + DIMMING: YOUTH ROOM W	1LC1:1
D2	TOGGLE W/ TIME OUT + DIMMING: YOUTH ROOM E	1LC1:3
D3	TOGGLE W/ TIME OUT + DIMMING: ELEC LAB W	1LC1:5
D4	TOGGLE W/ TIME OUT + DIMMING: ELEC LAB CNTR	1LC1:7
D5	TOGGLE W/ TIME OUT + DIMMING: ELEC LAB E	1LC1:9
D6	TOGGLE W/ TIME OUT + DIMMING: ELEC LAB S	1LC1:11
D7	TOGGLE W/ TIME OUT + DIMMING: SPARE INPUT	
D8	TOGGLE W/ TIME OUT + DIMMING: SPARE INPUT	
O1	OCC SENSOR: SPARE INPUT	
O2	OCC SENSOR: SPARE INPUT	
O3	OCC SENSOR: SPARE INPUT	
O4	OCC SENSOR: SPARE INPUT	
O5	OCC SENSOR: SPARE INPUT	
O6	OCC SENSOR: SPARE INPUT	
O7	OCC SENSOR: SPARE INPUT	
O8	OCC SENSOR: SPARE INPUT	
P1	PHOTOCELL: EXTERIOR	1LC1:2,4
P2	PHOTOCELL: SPARE INPUT	
P3	PHOTOCELL: SPARE INPUT	
S1	TOGGLE W/ TIME OUT: SPARE INPUT	
S2	TOGGLE W/ TIME OUT: SPARE INPUT	
S3	TOGGLE W/ TIME OUT: SPARE INPUT	
S4	TOGGLE W/ TIME OUT: SPARE INPUT	
S5	TOGGLE W/ TIME OUT: SPARE INPUT	
S6	TOGGLE W/ TIME OUT: SPARE INPUT	
S7	TOGGLE W/ TIME OUT: SPARE INPUT	
S8	TOGGLE W/ TIME OUT: SPARE INPUT	
NOTES		

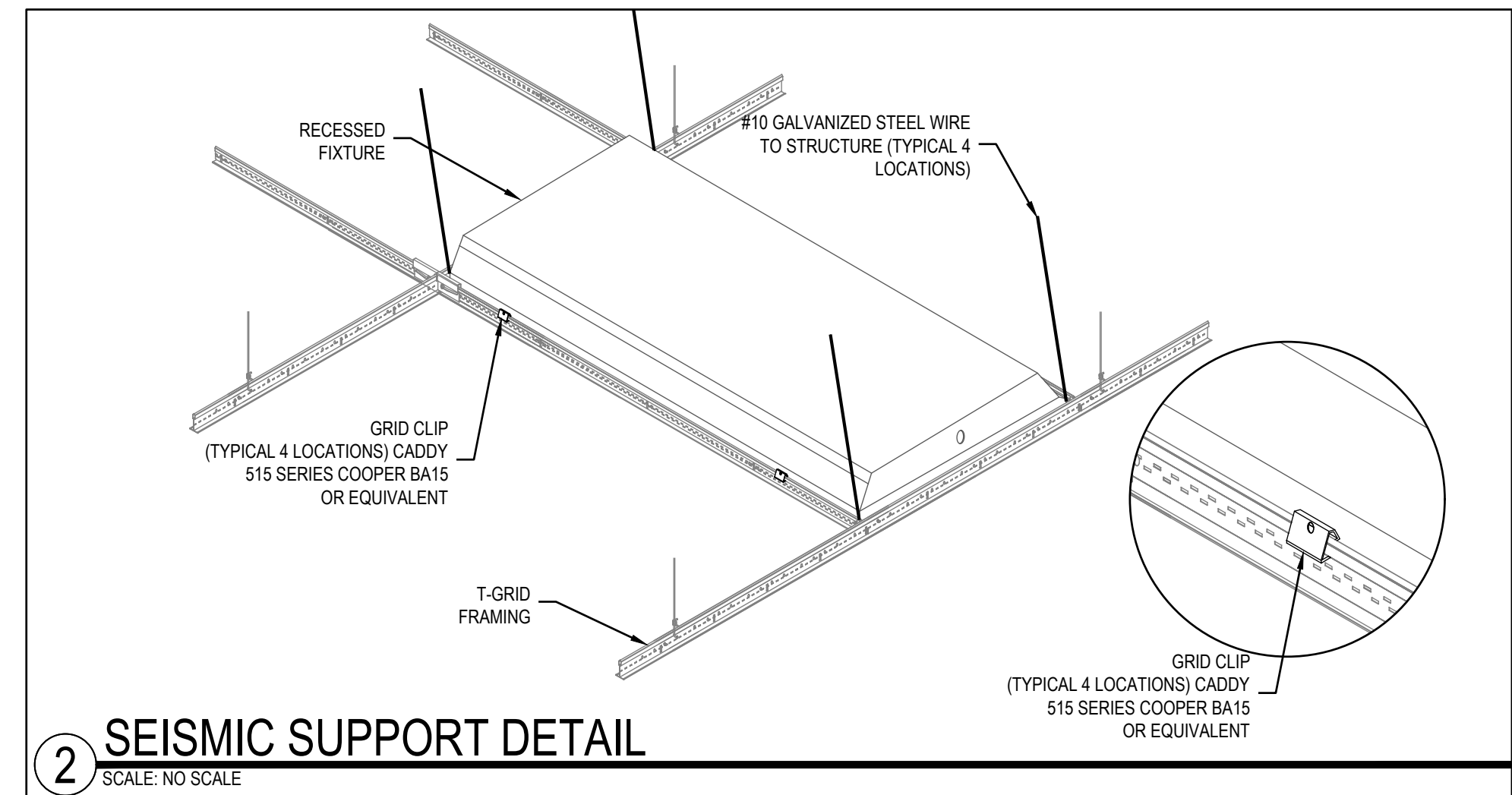
RELAY PANEL SCHEDULE															
RELAY PANEL		FEEDS			REMARKS					LOCATION	MOUNTING				
1LC1		X INDIVIDUAL MAIN LUGS								CLASSROOM 103	FLUSH SURFACE				
X NEW	EXISTING	MAX VOLTAGE 480													
		MAX PHASE 1													
No.	RELAY	CONTROLLED CKT	CONTROL ZONE	CONTROL TYPE (SEE SCHEDULE)	DIMMING (SEE SCHED)	No.	No.	CONTROL TYPE (SEE SCHEDULE)	DIMMING (SEE SCHED)	CONTROL ZONE	CONTROLLED CKT	RELAY	No.		
1	20	1	A-11	YOUTH W	T1.B1.SS	D1	1	2	MATCH EXISTING	N/A	EXTERIOR	A-12	20	1	2
3	20	1	A-11	YOUTH E	T1.B1.SS	D2	3	4	MATCH EXISTING	N/A	EXTERIOR	A-14	20	1	4
5	20	1	A-13	ELEC LAB W	T1.B1.SS	D3	5	6			EXTERIOR	SPA RE	20	1	6
7	20	1	A-13	ELEC LAB CNTR	T1.B1.SS	D4	7	8				SPA RE	20	1	8
9	20	1	A-13	ELEC LAB E	T1.B1.SS	D5	9	10				SPA RE	20	1	10
11	20	1	A-13	ELEC LAB S	T1.B1.SS	D6	11	12				SPA RE	20	1	12
13	20	1	SPA RE				13	14				SPA RE	20	1	14
15	20	1	SPA RE				15	16				SPA RE	20	1	16
17	20	1	SPA RE				17	18				SPA RE	20	1	18
19	20	1	SPA RE				19	20				SPA RE	20	1	20
21	20	1	SPA RE				21	22				SPA RE	20	1	22
23	20	1	SPA RE				23	24				SPA RE	20	1	24

CLK = TIMECLOCK
SW = SWITCH (1, 3, OR 4)

OVER = 2-HOUR TIMED OVERRIDE ON
PHOTO = PHOTOCELL

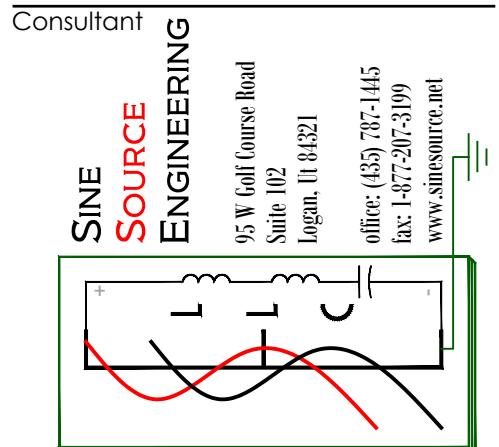
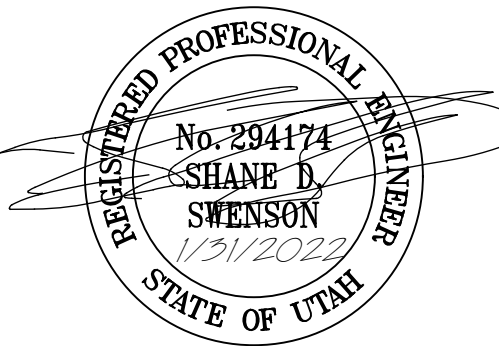
LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER/CATALOG NO.	DESCRIPTION	MOUNTING	POWER	LAMPS	
EIS-125	IOTA HS-125-SM-DR OR EQUIVALENT	EM INVERTER; MULTI-VOLT; DIMMING COMPATIBLE; SELF-DIAGNOSTIC; 125W MINIMUM OUTPUT	SURFACE	150 W	EM FIXTURES	
EIS-375	IOTA HS-375-LED-DR OR EQUIVALENT	EM INVERTER; MULTI-VOLT; DIMMING COMPATIBLE; SELF-DIAGNOSTIC; 375W MINIMUM OUTPUT	SURFACE	500 W	EM FIXTURES	
EX-1B	DUAL LITE NV3-G-EN-W-CVS SURE-LITES CCX7-0-70-G-WH-SD LIGHTOLIER LT-4-LUG-G-W-SD LITHONIA LOM S W 3 G 120/277 EL N SD EELP XE-2-GW-EM-SD EXITRONIX MCHILBEN CXXL-3-G-W	EXIT SIGN; SINGLE FACE; UNIVERSAL MOUNTING; WHITE; THERMOPLASTIC HOUSING; SELF DIAGNOSTICS; WIRE GUARD WHERE NOTED ON DRAWINGS	WALL OR CEILING 1-FACE	3W	LED	
HB-L13	CHAMELEON LIGHTING SP-IN-S-0/P59-S-C-S-LED94-40-80-R84/SDE-S EQUIVALENT ONLY WITH PRIOR ARCHITECTURAL APPROVAL	LED HIGH BAY; DECORATIVE HOUSING; MULTI-VOLT; ELECTRONIC; 1% DIMMABLE DRIVER; OPEN BOTTOM; SURFACE MOUNT DRIVER; FINISH AS SELECTED BY ARCHITECT	CABLE SUSPENDED	94 W	13000 LUMEN NOMINAL LED 4000K	
LD24-L12	PINNACLE EX1D-BW-840-24-MAC*JB-U-PL2-1-(1EM)-SCBA OR EQUIVALENT	SUSPENDED LINEAR DIRECT; 4" NOMINAL WIDTH; MULTI-VOLT; ELECTRONIC; 1% DIMMABLE DRIVER; CONTINUOUS LENGTH AS INDICATED ON DRAWINGS; EM BATTERY WHERE (B) OPTION SHOWN ON LIGHTING PLAN	GRID	103.2 W	12000 LUMEN NOMINAL LED 4000K	
LR20-L10	PINNACLE EV4D-BW-840-20-G-U-PL2-1-(EM)-W OR EQUIVALENT	RECESSED LINEAR; 4" NOMINAL WIDTH; MULTI-VOLT; ELECTRONIC; 1% DIMMABLE DRIVER; CONTINUOUS LENGTH AS INDICATED ON DRAWINGS; EM BATTERY WHERE (B) OPTION SHOWN ON LIGHTING PLAN	GRID	86 W	10000 LUMEN NOMINAL LED 4000K	
LR24-L12	PINNACLE EV4D-BW-840-24-G-U-PL2-1-(EM)-W OR EQUIVALENT	RECESSED LINEAR; 4" NOMINAL WIDTH; MULTI-VOLT; ELECTRONIC; 1% DIMMABLE DRIVER; CONTINUOUS LENGTH AS INDICATED ON DRAWINGS; EM BATTERY WHERE (B) OPTION SHOWN ON LIGHTING PLAN	GRID	103.2 W	12000 LUMEN NOMINAL LED 4000K	
RL-L15	LITHONIA LONB-40-15-L06-AR-LD-MVOLT-GZ1-(ELSD) OR EQUIVALENT	RECESSED CAN; LED LAMPING; CLEAR, OPEN, SEMI-DIFFUSE CONE; 6" NOMINAL OPENING, SELF-FLANGED TO MATCH CONE; 1% DIMMABLE; EM BATTERY WHERE (B) OPTION SHOWN ON LIGHTING PLANS	RECESS	17.5 W	1500 LUMEN NOMINAL LED 4000K	
SL4-L4K	LUMENWERX VIA2S-D-HO-FH-SW-80-1000-40-4-UNV-D1-1C-(EMB)-DRC-SCBA OR EQUIVALENT WITH PRIOR APPROVAL	SURFACE LINEAR; 2" NOMINAL WIDTH; 4" MAX HEIGHT; MULTI-VOLT; ELECTRONIC; 1% DIMMABLE DRIVER; CONTINUOUS LENGTH AS INDICATED ON DRAWINGS; EM BATTERY WHERE (B) OPTION SHOWN ON LIGHTING PLAN	SURFACE	40 W	4000 LUMEN NOMINAL LED 4000K	
SL4-L48	LUMENWERX VIA2S-D-HO-FH-SW-80-1200-40-4-UNV-D1-1C-(EMB)-DRC-SCBA OR EQUIVALENT WITH PRIOR APPROVAL	SURFACE LINEAR; 2" NOMINAL WIDTH; 4" MAX HEIGHT; MULTI-VOLT; ELECTRONIC; 1% DIMMABLE DRIVER; CONTINUOUS LENGTH AS INDICATED ON DRAWINGS; EM BATTERY WHERE (B) OPTION SHOWN ON LIGHTING PLAN	SURFACE	49 W	4800 LUMEN NOMINAL LED 4000K	
NOTES						
CONTRACTOR AND LIGHTING SUPPLIER SEE (*) FOR MULTIPLE BALLAST REQUIREMENTS AND (+) FOR QUARTZ EM REQUIREMENTS						

LIGHT FIXTURE ACCESSORY SCHEDULE			
B	AS SPECIFIED	APPENDED TO FIXTURE TYPE: 1100 LUMEN EM BATTERY SUPPLY	PER FIXTURE TYPE
NOTES			
-FIXTURE APPENDS ARE ADDED TO STANDARD FIXTURE TYPES. APPENDS ARE INTENDED TO MODIFY FIXTURE CATALOG NUMBERS GIVEN ABOVE AS NOTED IN APPEND DESCRIPTION			



2 SEISMIC SUPPORT DETAIL

SCALE: NO SCALE



ELECTRICAL PROGRAM RELOCATION
 Ogden Weber Technical College
 Ogden, Utah

Issued		
No.	Date	Description

Revision		
No.	Date	Description

SAA Project No. 2021-24
Drawing Title

LIGHTING DETAILS

Sheet Number

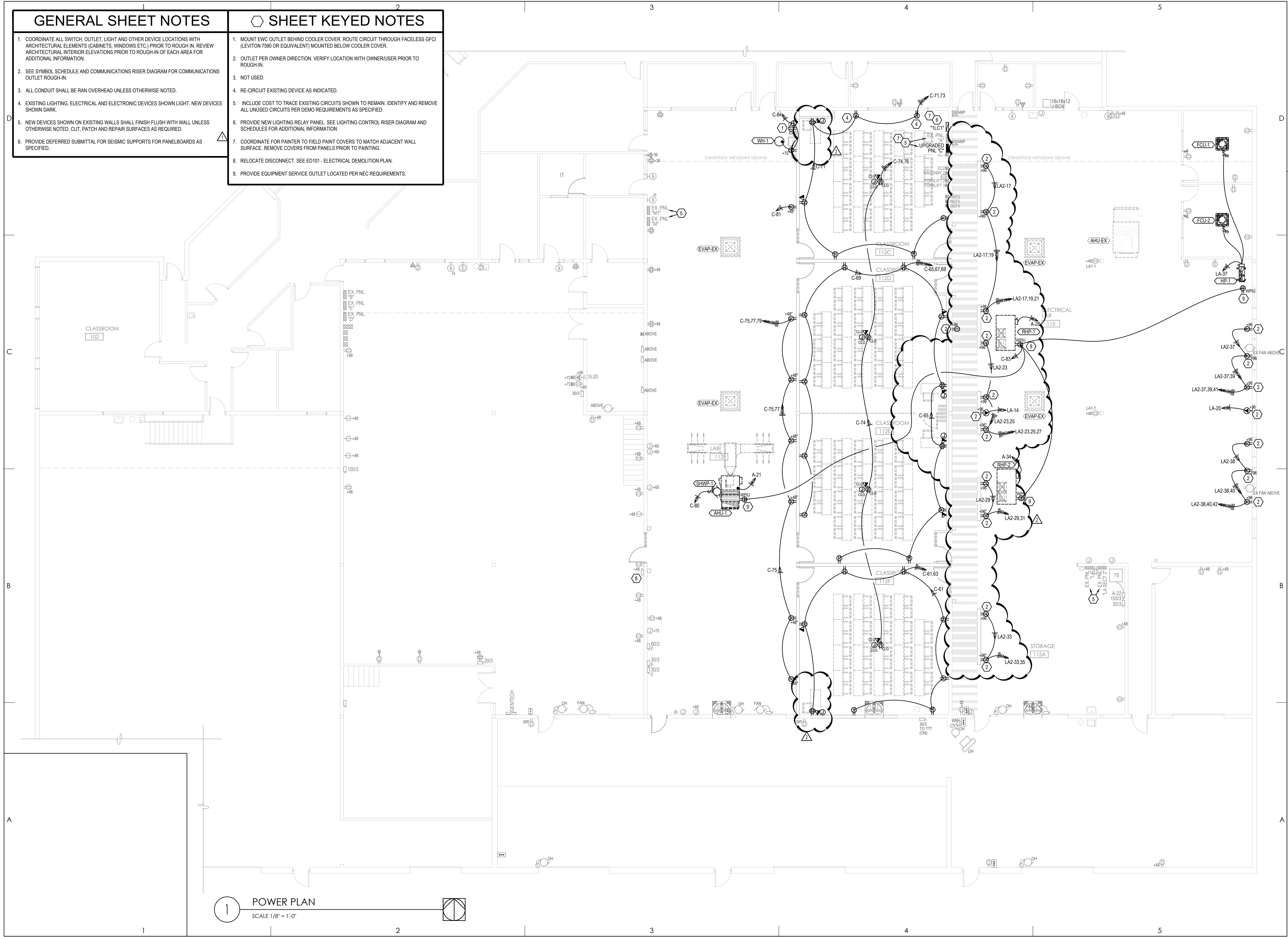
EL501

GENERAL SHEET NOTES

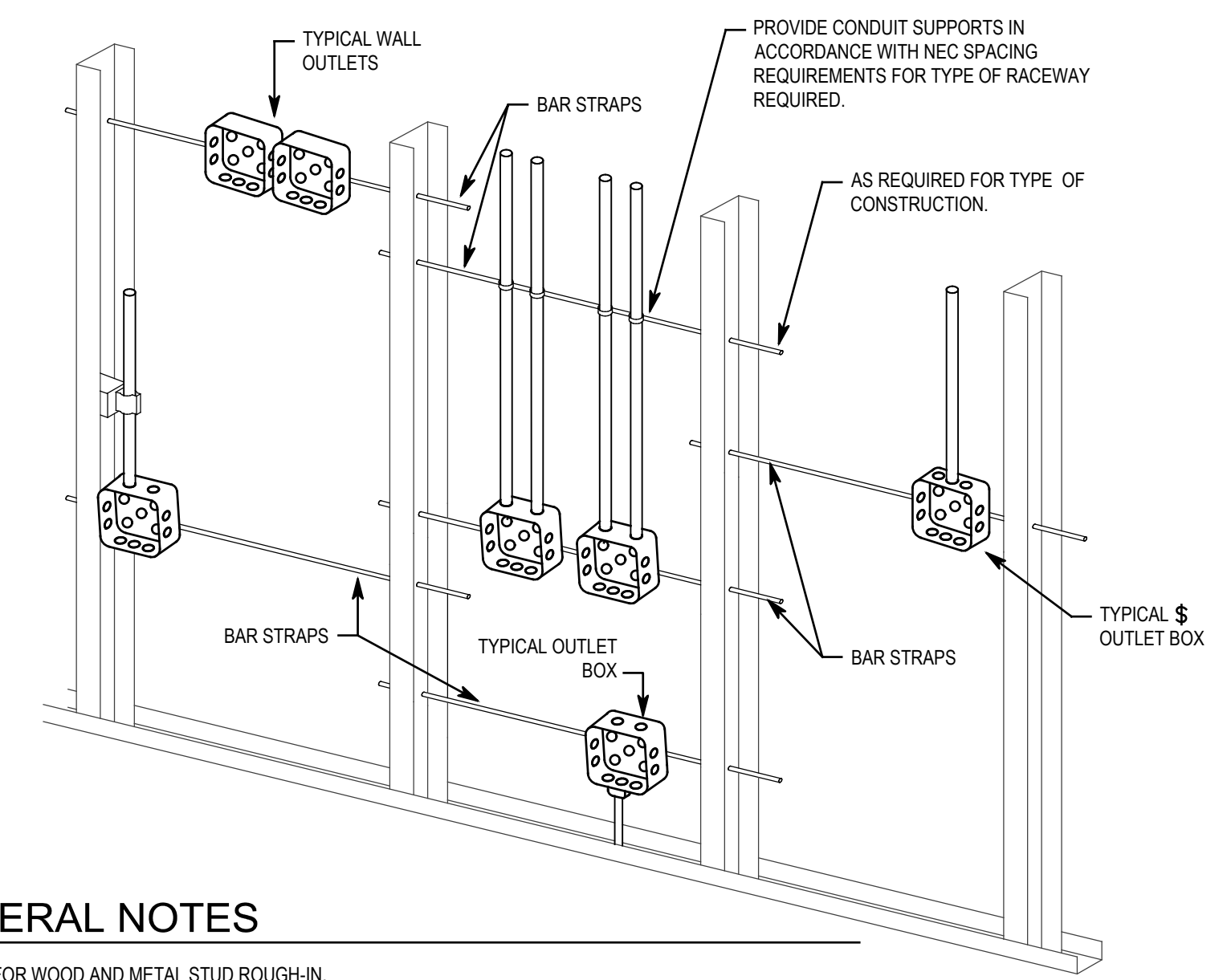
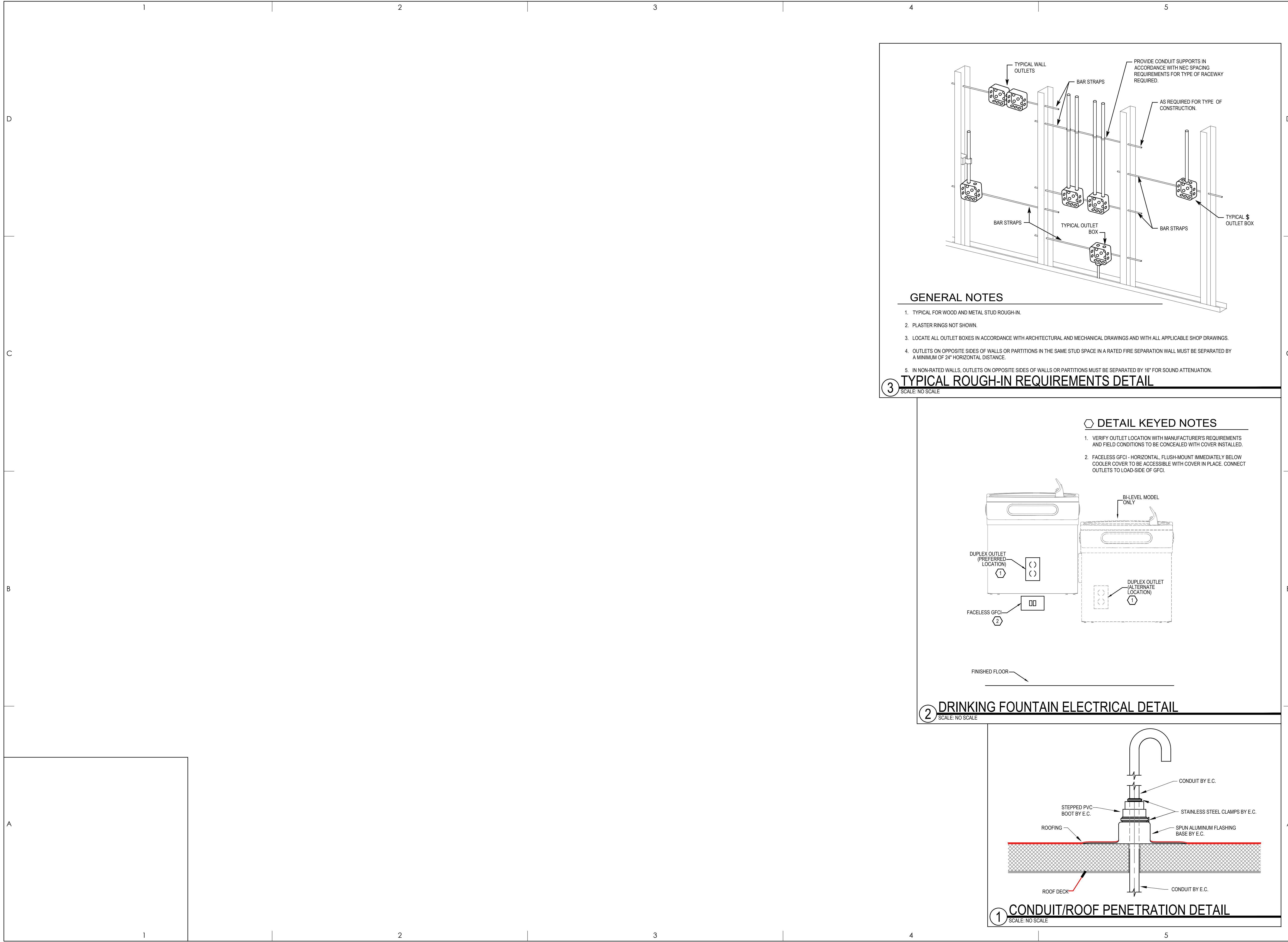
- COORDINATE ALL SWITCH, OUTLET, LIGHT AND OTHER DEVICE LOCATIONS WITH ARCHITECTURAL ELEMENTS (CABINETS, WINDOWS ETC.) PRIOR TO ROUGH IN. REVIEW ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN OF EACH AREA FOR ADDITIONAL INFORMATION.
- SEE SYMBOL SCHEDULE AND COMMUNICATIONS RISER DIAGRAM FOR COMMUNICATIONS OUTLET ROUGH-IN.
- ALL CONDUIT SHALL BE RAN OVERHEAD UNLESS OTHERWISE NOTED.
- EXISTING LIGHTING, ELECTRICAL AND ELECTRONIC DEVICES SHOWN LIGHT. NEW DEVICES SHOWN DARK.
- NEW DEVICES SHOWN ON EXISTING WALLS SHALL FINISH FLUSH WITH WALL UNLESS OTHERWISE NOTED. CUT, PATCH AND REPAIR SURFACES AS REQUIRED.
- PROVIDE DEFERRED SUBMITTAL FOR SEISMIC SUPPORTS FOR PANELBOARDS AS SPECIFIED.

SHEET KEYED NOTES

- MOUNT EWC OUTLET BEHIND COOLER COVER. ROUTE CIRCUIT THROUGH FACELESS GFCI (LEVITON 7590 OR EQUIVALENT) MOUNTED BELOW COOLER COVER.
- OUTLET PER OWNER DIRECTION. VERIFY LOCATION WITH OWNER/USER PRIOR TO ROUGH-IN.
- NOT USED.
- RE-CIRCUIT EXISTING DEVICE AS INDICATED.
- INCLUDE COST TO TRACE EXISTING CIRCUITS SHOWN TO REMAIN. IDENTIFY AND REMOVE ALL UNUSED CIRCUITS PER DEMO REQUIREMENTS AS SPECIFIED.
- PROVIDE NEW LIGHTING RELAY PANEL. SEE LIGHTING CONTROL RISER DIAGRAM AND SCHEDULES FOR ADDITIONAL INFORMATION.
- COORDINATE FOR PAINTER TO FIELD PAINT COVERS TO MATCH ADJACENT WALL SURFACE. REMOVE COVERS FROM PANELS PRIOR TO PAINTING.
- RELOCATE DISCONNECT. SEE ED101 - ELECTRICAL DEMOLITION PLAN.
- PROVIDE EQUIPMENT SERVICE OUTLET LOCATED PER NEC REQUIREMENTS.



TIME: 19 OCT 2013 - 12:25PM DONALD J PATTON - T:\085\2021072 DWTC ELECTRICAL PROGRAM RELOCATION\01 DRAWINGS\05 ELECTRICAL\SOURCE PROJECTS\01 ELECTRICAL DETAILS.DWG
LAST SAVED: 03 Dec 21



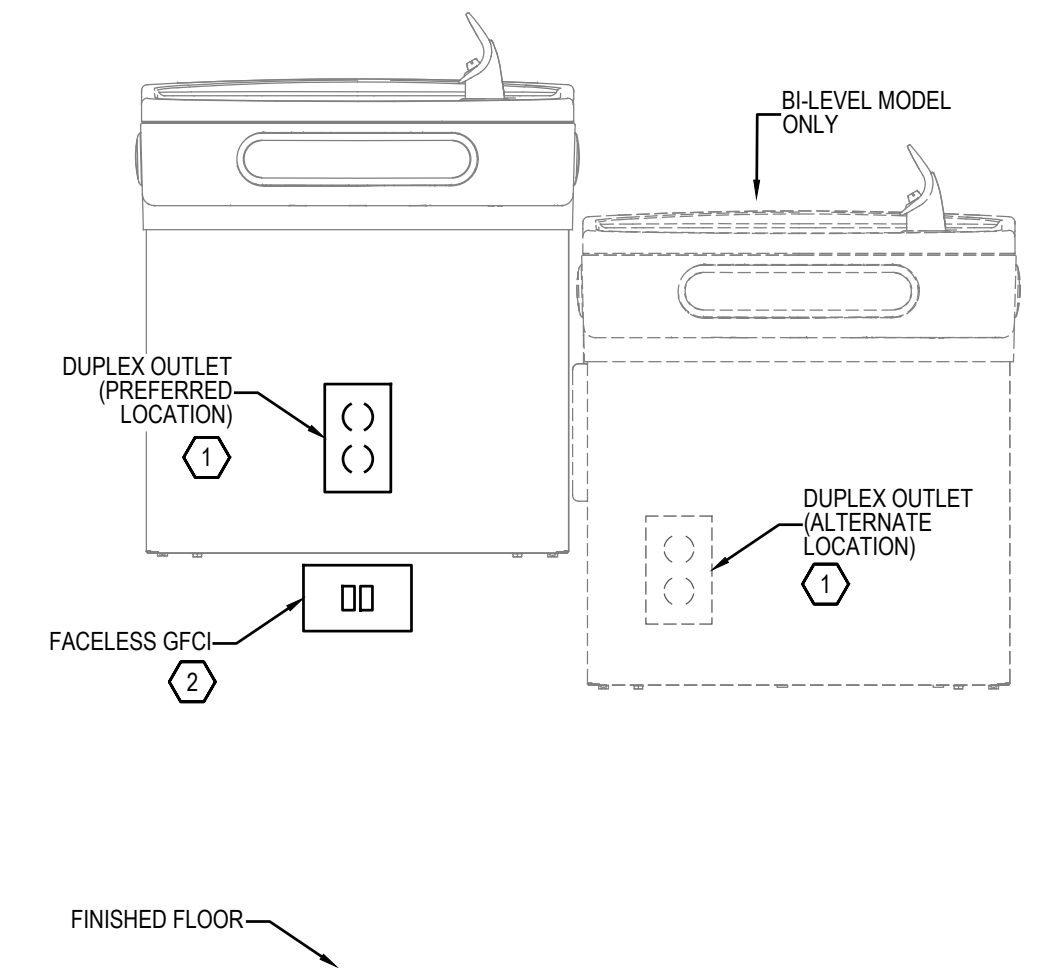
GENERAL NOTES

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

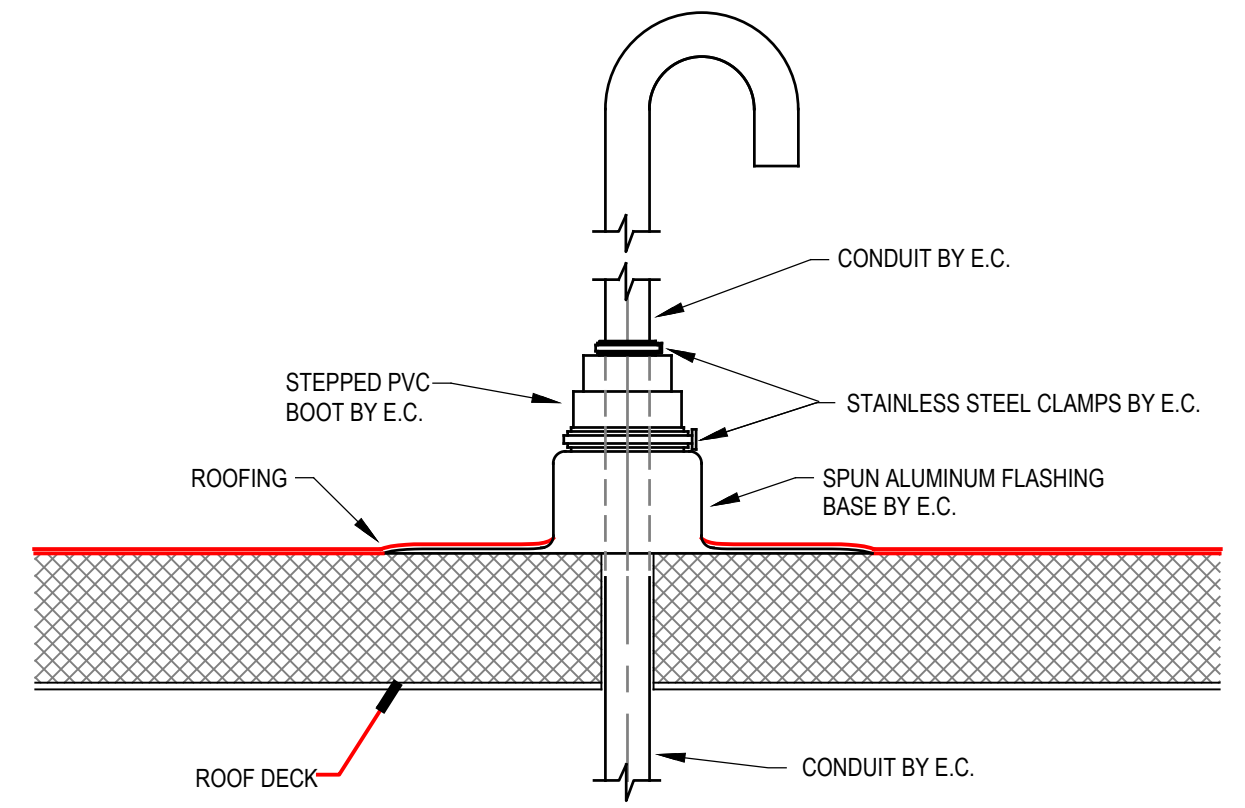
3 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
SCALE: NO SCALE

DETAIL KEYED NOTES

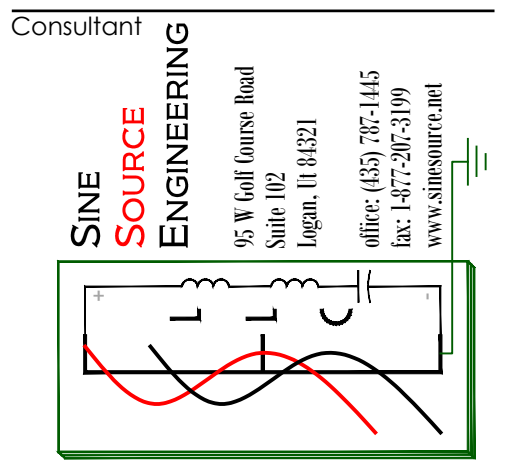
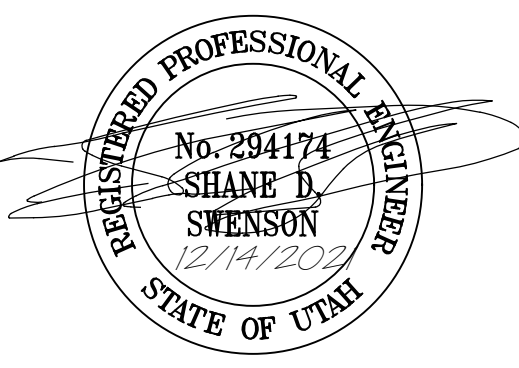
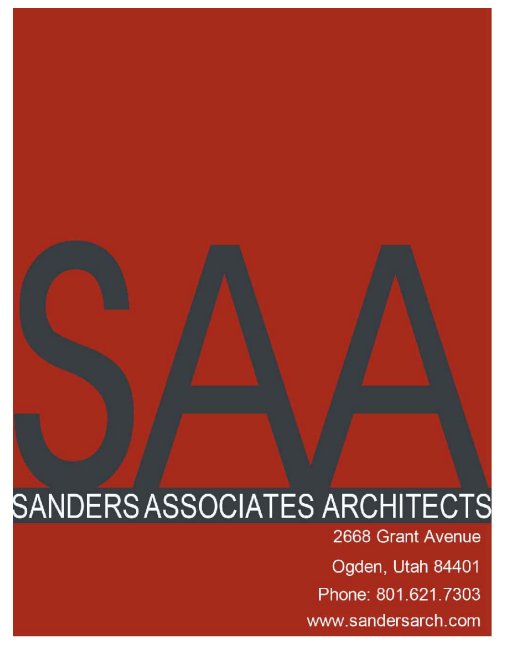
1. VERIFY OUTLET LOCATION WITH MANUFACTURER'S REQUIREMENTS AND FIELD CONDITIONS TO BE CONCEALED WITH COVER INSTALLED.
2. FACELESS GFCI - HORIZONTAL, FLUSH-MOUNT IMMEDIATELY BELOW COOLER COVER TO BE ACCESSIBLE WITH COVER IN PLACE. CONNECT OUTLETS TO LOAD-SIDE OF GFCI.



2 DRINKING FOUNTAIN ELECTRICAL DETAIL
SCALE: NO SCALE



1 CONDUIT/ROOF PENETRATION DETAIL
SCALE: NO SCALE



Project Name
ELECTRICAL PROGRAM RELOCATION
Ogden Weber Technical College
Ogden, Utah

Issued

No.	Date	Description

Revision

No.	Date	Description

SAA Project No. 2021-24
Drawing Title

ELECTRICAL DETAILS

Sheet Number

EP501

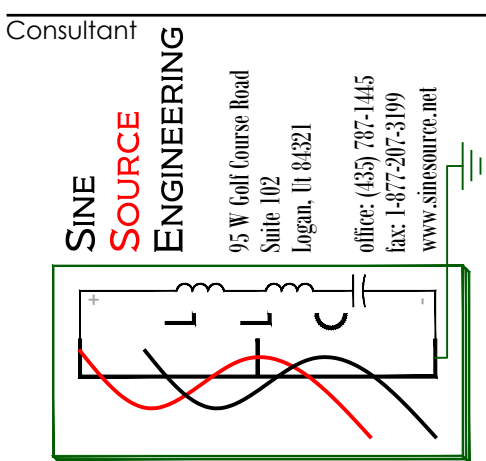
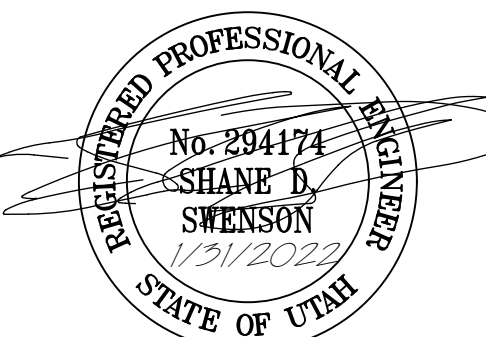
Panel LA, TYPE GE AF1, 3 Ø 4 WIRE 120/208 VOLTS, LOCATION TBD, MOUNTING FLUSH SURFACE, 225 AMP MAIN, X LUGS, X BREAKER. Includes circuit descriptions and wire/cnd tables for panels LA and LA2.

MECHANICAL EQUIPMENT SCHEDULE table with columns for SYM, DESCRIPTION, LOAD, VOLTS, PHASE, FIRE ALARM SHUTDOWN, CONTROL CIRCUITS BY, STARTER BY, SAFETY DISCONNECT BY, REMARKS.

FLOOR, TABLE, AND WALL BOX SCHEDULE table with columns for SYMBOL, DESCRIPTION, MANUFACTURER, MODEL, COLOR, DEVICES.

Panel A, TYPE GE NLAB, 3 Ø 4 WIRE 277/480 VOLTS, LOCATION CLASS 103, MOUNTING FLUSH SURFACE, 225 AMP MAIN, X LUGS, X BREAKER. Includes circuit descriptions and wire/cnd tables.

Panel C, TYPE GE, 3 Ø 4 WIRE 120/208 VOLTS, LOCATION CLASS 103, MOUNTING FLUSH SURFACE, 400 AMP MAIN, X LUGS, X BREAKER. Includes circuit descriptions and wire/cnd tables.



REGISTERED PROFESSIONAL ENGINEER SHANE D. SWENSON 12/1/2022. Project Name: ELECTRICAL PROGRAM RELOCATION Ogden Weber Technical College, Ogden, Utah.

Issue Log table with columns for No., Date, Description.

Revision Log table with columns for No., Date, Description.

SA Project No. 2021-24. Drawing Title: ELECTRICAL SCHEDULES. Sheet Number: EP602.

GENERAL SHEET NOTES

- ARCHITECTURAL CEILINGS SHOWN FOR CONTRACTOR CONVENIENCE IN BIDDING INSTALLATION REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SEE SYMBOL SCHEDULE FOR COMMUNICATIONS CABLING AND ROUGH-IN REQUIREMENTS.
- PROVIDE INDUSTRY STANDARD CADDIE CLIPS # 4 ON CENTER THROUGH ALL CORRIDORS AND INTO DATA ROOM. COMPLY WITH TIA/EIA CATEGORY 6E STANDARDS FOR COMMUNICATIONS RACEWAY INSTALLATIONS.
- CANDELA RATINGS FOR STROBE DEVICES ARE MINIMUM REQUIRED VALUES. FIRE ALARM CONTRACTOR SHALL ADJUST MANUFACTURER'S STANDARD CANDELA RATINGS AS NECESSARY TO MEET OR EXCEED MINIMUM REQUIREMENTS.
- FIRE ALARM ANNUNCIATION DEVICE LOCATIONS ARE BASED ON CODE REQUIRED LAYOUTS. COORDINATE WITH ENGINEER PRIOR TO RELOCATING ANY DEVICES. ALTERNATE LOCATIONS AFFECT DEVICE CANDELA RATINGS.
- INTEGRATE NEW FIRE ALARM DEVICES INTO EXISTING SYSTEM. PROVIDE ALL UPGRADES TO EXISTING FIRE ALARM SYSTEM NEEDED FOR COMPLETE SYSTEM EXPANSION. COORDINATE WITH EQUIPMENT REPS PRIOR TO BID.
- ALL FIRE ALARM CONDUITS AND BOXES TO BE IDENTIFIED AS FOLLOWS:
 - CONCEALED: FACTORY APPLIED RED.
 - EXPOSED: FIELD PAINTED TO MATCH ADJACENT SURFACE.
- PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- DESIGN AND FIELD VERIFY AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES. FIELD MEASURE SOUND PRESSURE LEVELS AND REPLACE HORN-STROBES WITH STROBE ONLY DEVICES WERE REQUIRED.
- POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
- SEE FLOOR BOX SCHEDULE FOR FLOOR BOX CONDUIT REQUIREMENTS.
- ALL CONDUIT SHALL BE RAN OVERHEAD UNLESS OTHERWISE NOTED.
- EXISTING LIGHTING, ELECTRICAL AND ELECTRONIC DEVICES SHOWN LIGHT. NEW DEVICES SHOWN DARK.
- NEW DEVICES SHOWN ON EXISTING WALLS SHALL FINISH FLUSH WITH WALL UNLESS OTHERWISE NOTED. CUT, PATCH AND REPAIR SURFACES AS REQUIRED.
- PROVIDE DEFERRED SUBMITTAL FOR SEISMIC SUPPORTS FOR CABLE TRAYS AS SPECIFIED.

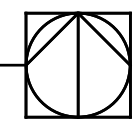
SHEET KEYED NOTES

- NOT USED.
- PROPOSED COMMUNICATIONS RACEWAY ROUTING.
- NOT USED.
- PROVIDE DUCT DETECTORS WITH REMOTE INDICATING LAMP AND FIRE ALARM SHUTDOWN FOR HVAC UNITS.
- INTEGRATE NEW FIRE ALARM DEVICE INTO EXISTING SYSTEM.
- PROVIDE EMPTY CONDUITS SIZED AS SHOWN FOR OWNER A/V CABLING.

COMMUNICATIONS RACEWAY SCHEDULE				
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES
xCDy	CONDUIT, QUANTITY "X", DIAMETER "Y" AS INDICATED ON SYMBOL SCHEDULE	AS SPECIFIED		INSULATED THROAT CONNECTORS ON ALL ENDS; PULL STRING
CMJ	CABLE HOOKS; 4"; RETAINING CLIP QUANTITY AS REQUIRED FOR CURRENT CABLING PLUS 50% SPARE CAPACITY	COOPER B-LINE	BCH64 SERIES (OR EQUIVALENT)	RETAINER (BCHR64) OTHER ACCESSORIES AS REQUIRED
xBTy	X"W X "Y"D STEEL WIRE MESH TRAY MAXIMUM 6" SUPPORT SPACING (MIN 83 LBS/FT LOAD CAPACITY)	COOPER	FT(X)X(Y)-EG SERIES (OR EQUIVALENT)	ACCESSORIES AS REQUIRED
OUTLET BOX	5" SQUARE X 2 7/8" DEEP 3/4" MUD RING (1 OR 2-GANG AS NOTED)	STEEL CITY	821811-1 SERIES 82C-G-3/4 (OR EQUIVALENT)	

ELECTRONIC SYSTEMS PLAN

SCALE 1/8" = 1'-0"



TIME: 15 OCT 2013 - 12:25PM DONALD J PATTON - T:\JOBS\2012\1077 DWG\TC ELECTRICAL PROGRAM\RELOCATION\01 DRAWINGS\05 ELECTRICAL\SYSTEMS\ET401 ELECTRICAL SYSTEMS PLAN.DWG LAST SAVED: 31 Jun 22



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ELECTRICAL PROGRAM RELOCATION

Ogden Weber Technical College

Ogden, Utah

Project Name

Issued No.	Date	Description

Revision

No.	Date	Description
1	1.14.2022	PLAN REVIEW
2	1.31.2022	OWNER ADJUSTMENTS

SAA Project No. 2021-24
 Drawing Title

ELECTRONIC SYSTEMS PLAN

Sheet Number
ET401

