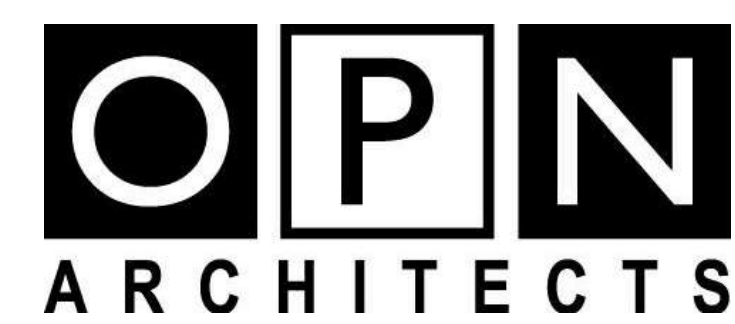




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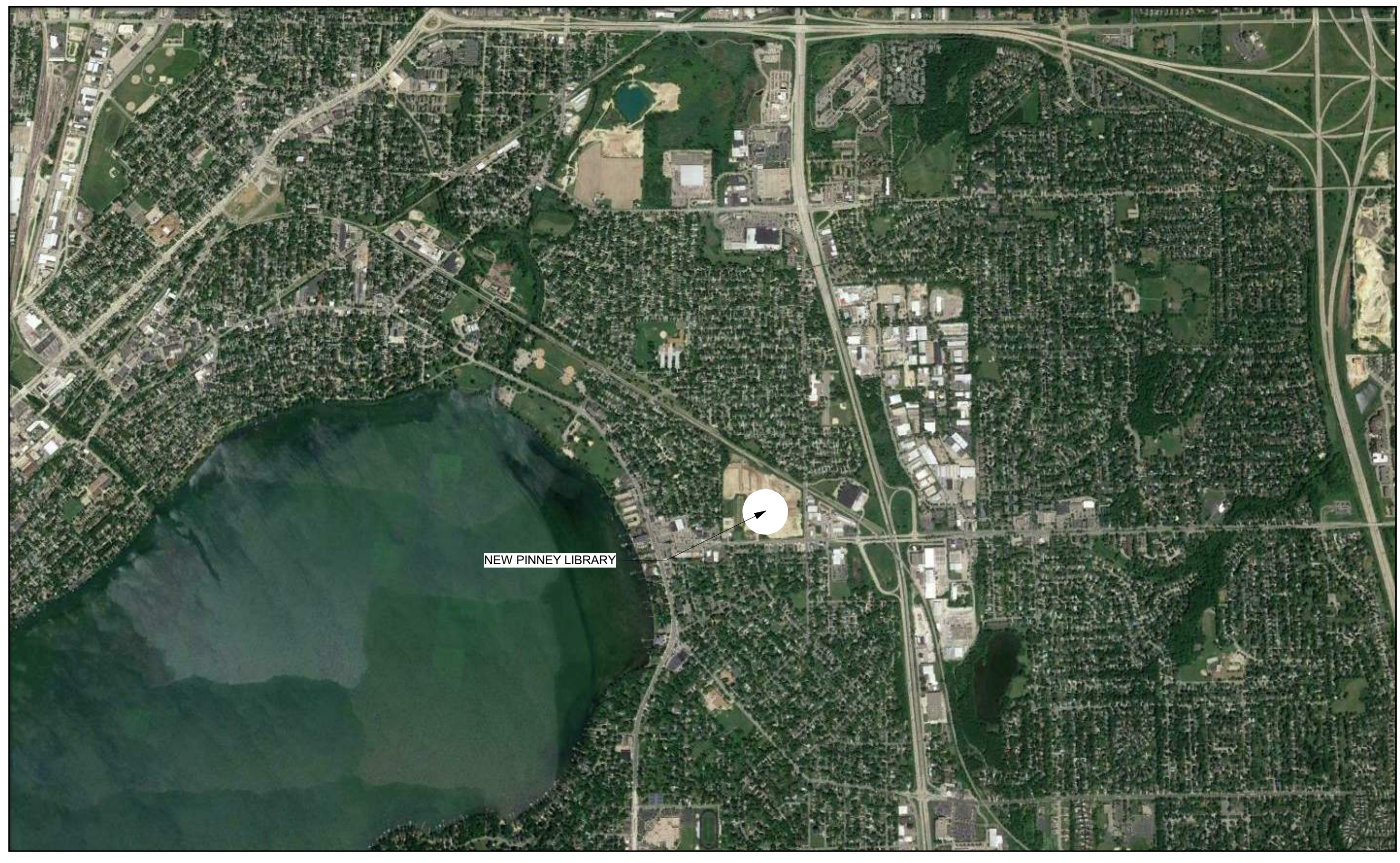
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SHEET INDEX

SHEET NUMBER	SHEET NAME		
- GENERAL		M200	LEVEL 0 FLOOR PLAN - PIPING
AG001	SHEET INDEX AND STAMPS	M201	LEVEL 1 FLOOR PLAN - PIPING
AG002	GENERAL DRAWINGS INFORMATION	M300	ENLARGED PLANS AND SECTIONS - MECHANICAL
AG003	WALL TYPES	M301	ENLARGED PLANS AND SECTIONS - MECHANICAL
AG004	CODE REVIEW & LIFE SAFETY PLAN	M400	MECHANICAL DETAILS
		M401	MECHANICAL DETAILS
		M402	MECHANICAL DETAILS
00 CIVIL (FOR REFERENCE ONLY)		M500	MECHANICAL DIAGRAMS
C-1.1	SITE PLAN	M501	MECHANICAL DIAGRAMS
C-1.2	ENLARGED SITE PLAN - WEST	M550	CONTROL DIAGRAMS - MECHANICAL
C-1.3	ENLARGED SITE PLAN - EAST	M551	CONTROL DIAGRAMS - MECHANICAL
C-1.4	SITE LIGHTING PLAN	M552	CONTROL DIAGRAMS - MECHANICAL
C-2.0	GRADING AND EROSION CONTROL PLAN	M600	MECHANICAL SCHEDULES
C-2.1	UTILITY AND FIRE LAY PLAN		
C-2.2	SITE PLAN		
		04 ELECTRICAL	
01 STRUCTURAL		E000	ELECTRICAL COVER SHEET
S300	GENERAL NOTES	E100	LEVEL 0 FLOOR PLAN - ELECTRICAL - LIGHTING
S100	FOUNDATION LAYOUT	E101	LEVEL 1 FLOOR PLAN - LIGHTING
		E200	LEVEL 0 FLOOR PLAN - ELECTRICAL - POWER
		E201	LEVEL 1 FLOOR PLAN - POWER
02 ARCHITECTURE		E300	LEVEL 0 FLOOR PLAN - ELECTRICAL - SYSTEMS
A100	FLOOR PLAN LOWER LEVEL	E301	LEVEL 1 FLOOR PLAN - FIRE ALARM
A101	FLOOR PLAN LEVEL 1	E400	ELECTRICAL DETAILS
A101.1	RAISED ACCESS FLOOR PLAN LEVEL 1	E500	ELECTRICAL ONE-LINE DIAGRAMS
A121	REFLECTED CEILING PLAN BASEMENT & LEVEL 1	E600	ELECTRICAL SCHEDULES
A131	FINISH FLOOR PLAN LEVEL 1	E700	ELECTRICAL PANEL SCHEDULES
A141	ENLARGED FLOOR PLANS		
A142	ENLARGED FLOOR PLANS		
A151	ENLARGED REFLECTED CEILING PLANS	05 PLUMBING	
A161	FURNITURE PLAN LEVEL 1 - FOR REFERENCE ONLY	P000	PLUMBING COVER SHEET
A200	EXTERIOR ELEVATIONS	P100	LEVEL 0 FLOOR PLAN - PLUMBING
A300	BUILDING SECTIONS	P101	LEVEL 1 UNDER RAISED FLOOR PLAN - PLUMBING
A310	DETAILS	P102	LEVEL 1 FLOOR PLAN - PLUMBING
A311	DETAILS	P200	ENLARGED PLANS AND SECTIONS - PLUMBING
A312	DETAILS	P300	RISER DIAGRAMS - PLUMBING
A320	PATIO ENCLOSURE PLAN, ELEVATIONS, AND DETAILS (ALTERNATE 1)	P301	RISER DIAGRAMS - PLUMBING
A321	PATIO ENCLOSURE PLAN, ELEVATIONS, AND DETAILS (ALTERNATE 1)	P302	RISER DIAGRAMS - PLUMBING
A322	PLAYLAB PLAN, ELEVATIONS, AND DETAILS (ALTERNATE 1)	P500	PLUMBING DIAGRAMS
A323	PLAYLAB PLAN, ELEVATIONS, AND DETAILS	P600	PLUMBING SCHEDULES
A400	INTERIOR ELEVATIONS		
A401	INTERIOR ELEVATIONS	06 FIRE PROTECTION	
A402	INTERIOR ELEVATIONS	F000	FIRE PROTECTION COVER SHEET
A403	INTERIOR ELEVATIONS	F100	LEVEL 0 FLOOR PLAN - FIRE PROTECTION
A500	CASEWORK DETAILS	F101	LEVEL 1 FLOOR PLAN - FIRE PROTECTION
A501	CUSTOM CASEWORK DETAILS		
A600	ROOM FINISH SCHEDULE AND SPECIFICATION	07 TECHNOLOGY	
A601	DOOR SCHEDULE AND ELEVATIONS	T000	TECHNOLOGY COVER SHEET
A602	BORROWED LIGHT ELEVATIONS	T050	SITE PLAN - TECHNOLOGY
A700	3D PERSPECTIVES - FOR REFERENCE ONLY	T100	LEVEL 0 FLOOR PLAN - WEST - TECHNOLOGY
A701	3D PERSPECTIVES - FOR REFERENCE ONLY	T101	LEVEL 1 FLOOR PLAN - TECHNOLOGY
		T300	ENLARGED PLANS - TECHNOLOGY
03 MECHANICAL		T400	TECHNOLOGY DETAILS
M000	MECHANICAL COVER SHEET	T500	TECHNOLOGY DIAGRAMS
M001	SITE PLAN - PHASE 1 - MECHANICAL	T501	TECHNOLOGY DIAGRAMS
M002	SITE PLAN - PHASE 2 - MECHANICAL	T502	TECHNOLOGY DIAGRAMS
M100	LEVEL 0 FLOOR PLAN - VENTILATION	T600	TECHNOLOGY SCHEDULES
M101	LEVEL 1 UNDER RAISED FLOOR PLAN - MECHANICAL	T601	TECHNOLOGY SCHEDULES
M102	LEVEL 1 FLOOR PLAN - VENTILATION	T602	GENERAL TECHNOLOGY EQUIPMENT SCHEDULE



1 LOCATION MAP - PROJECT LOCATION
1/8" = 1'-0"

PROJECT NARRATIVE

The project consists of a ~20,000 SF interior build out in the new Royster Corners development. The library will occupy half of the first floor of the new building which will have additional commercial and residential tenant spaces. As a neighborhood library, the project seeks to reflect the needs and values of the surrounding neighborhood by providing a welcoming and inclusive environment. A focus on early literacy will be at the forefront of the design with technology, print, and staff and patron interaction key components to connecting with the community.

ARCHITECT OF RECORD: OPN ARCHITECTS

I hereby certify these plans and specifications were prepared by me or under my direct personal supervision and that I am a duly licensed professional architect under the laws of the state of Wisconsin.

Name: Wesley Reynolds
Discipline: Architect
Registration No: 11709-S **Expiration Date:** 07/31/2020
Sheets covered by this seal: Listed As "Architectural"

STRUCTURAL ENGINEER: IMEG CORP.

I hereby certify this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed professional engineer under the laws of the state of Wisconsin.

Name: Abby A. Pertzborn
Discipline: Structural Engineer
Registration No: E38745-6 **Expiration Date:** 7/31/2020
Sheets covered by this seal: Listed As "Structural"

MECHANICAL/ PLUMBING ENGINEER: IMEG CORP.

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Name: Paul P. Hansen
Discipline: Mechanical Engineer
Registration No: E41764-6 **Expiration Date:** 07/31/2020
Sheets covered by this seal: Listed As "Mechanical" / "Plumbing"

PUBLIC IMPROVEMENT PROJECT APPROVED: RES #: 18-00754 FILE ID: 53438 DATE: 10/30/2018 BY THE COMMON COUNCIL OF MADISON, WI	PUBLIC IMPROVEMENT DESIGN APPROVED BY: <hr/> CITY ENGINEER <hr/> DATE
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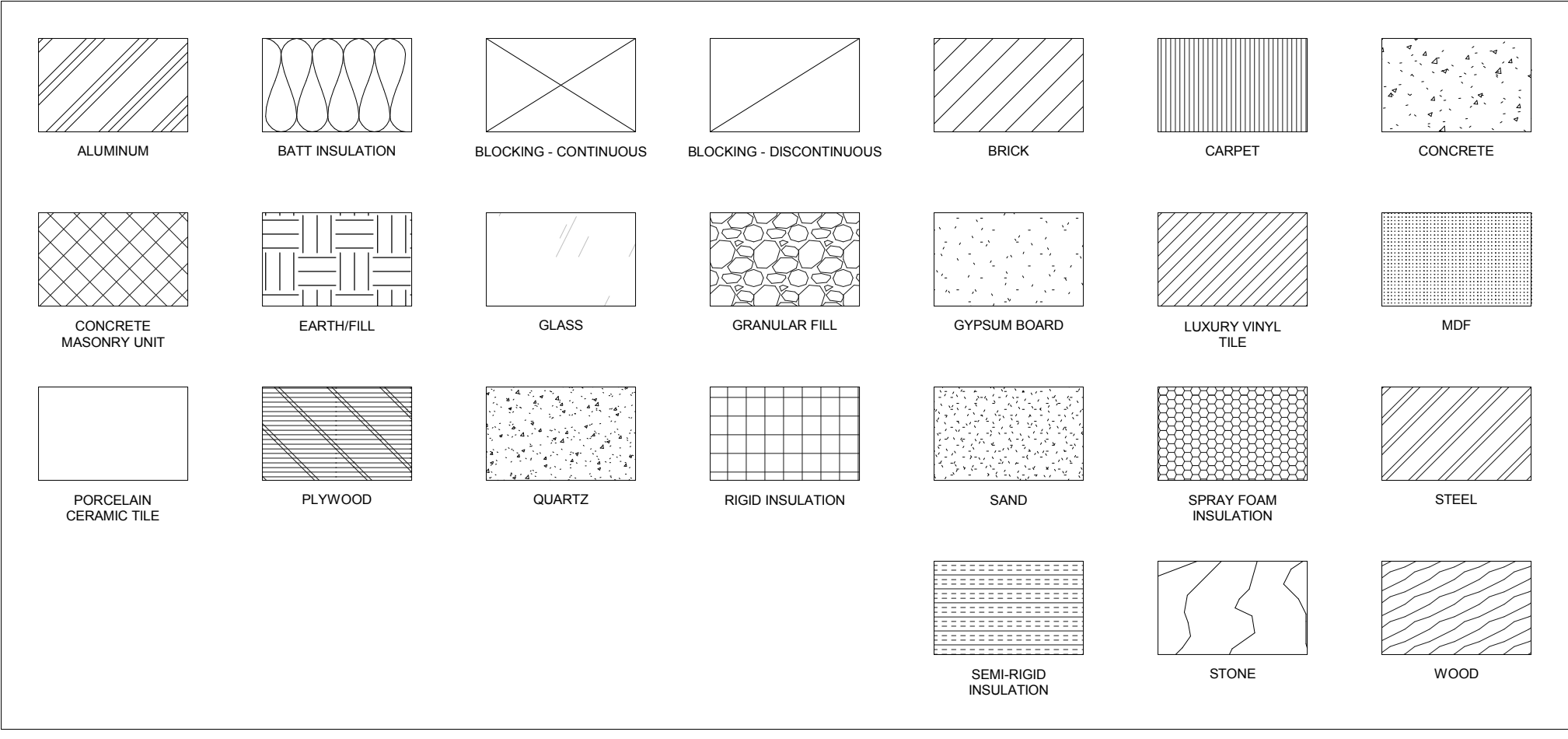
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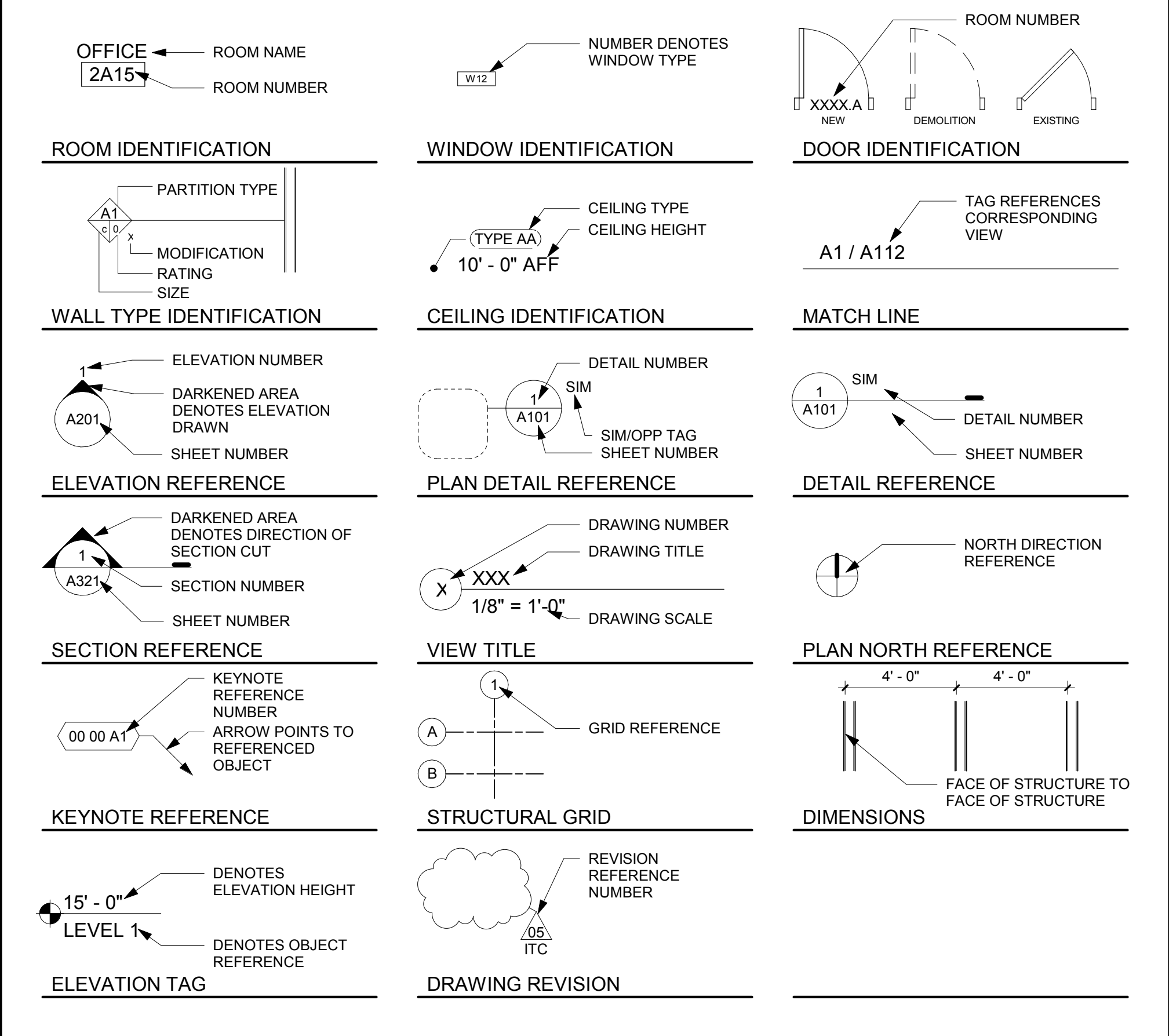
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Revision	Date

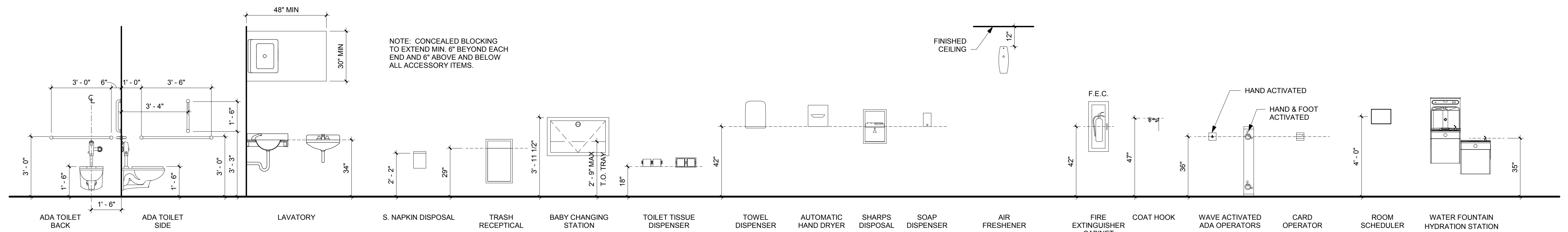
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OPN Project No.
17609000
Sheet Issue Date
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Sheet Name
SHEET INDEX AND STAMPS
Sheet Number
AG001



STANDARD MATERIAL DEFINITIONS



STANDARD SYMBOLS



STANDARD MOUNTING HEIGHTS

STANDARD ABBREVIATIONS

- ACM ALUMINUM COMPOSITE METAL CEILING PANEL
- ACP ACOUSTICAL CEILING PANEL
- AFF ABOVE FINISH FLOOR
- BAS BUILDING AUTOMATION SYSTEM
- BC BOTTOM OF CURB
- BG BUTT GLAZE
- BM BENCHMARK
- BOC BACK OF CURB
- BOS BOTTOM OF STEEL
- BOW BOTTOM OF WALL
- BRG BEARING
- BS BOTTOM OF STAIR
- C CHANNEL
- CG CORNER GUARD
- CJ CONTROL JOINT
- CL CENTER LINE
- CLG CEILING
- CLL CONSTRUCTION LIMITS LINE
- CMU CONCRETE MASONRY UNIT
- CO CLEANOUT
- CONC CONCRETE
- CONT CONTINUOUS
- CPT CARPET
- CRK CORK
- DEM/D DEMOLISH / DEMOLITION
- DF DRINKING FOUNTAIN
- DIA DIAMETER
- DN DOWN
- DS DOWNSPOUT
- EC ELECTRICAL CONTRACTOR
- EIFS EXTERIOR INSULATION FINISH SYSTEM
- EJ EXPANSION JOINT
- ELEC ELECTRICAL
- ELEV ELEVATION
- EPF EPOXY FLOORING
- EPT EPOXY PAINT
- EQ EQUAL
- EWC ELECTRIC WATER COOLER
- EX EXISTING
- FD FLOOR DRAIN
- FF FACTORY FINISH
- FFE FINISHED FLOOR ELEVATION
- FOC FACE OF CURB
- FOF FACE OF FINISH
- FP FIRE PROTECTION
- GA GAUGE
- GALV GALVANIZED
- GC GENERAL CONTRACTOR
- GHM GALVANIZED HOLLOW METAL
- GL GLASS
- GT GROUT
- GWB GYPSUM WALL BOARD
- GYP GYPSUM
- HORZ HORIZONTAL
- HW HARDWARE
- HM HOLLOW METAL
- HT HEIGHT
- HVAC HEATING/VENTILATING/AIR CONDITIONING
- ID INSIDE DIAMETER
- ANGLE
- LB/LBS POUND / POUNDS
- LVT LUXURY VINYL TILE
- MAX MAXIMUM
- MB MARKERBOARD
- MC MECHANICAL CONTRACTOR
- MDF MEDIUM DENSITY FIBERBOARD
- MEP MECHANICAL, ELECTRICAL & PLUMBING
- MFR MANUFACTURERS
- MH MANHOLE
- MIL MIL THICKNESS
- MIN MINIMUM
- MO MASONRY OPENING
- NOT IN CONTRACT
- NTS NOT TO SCALE
- OC ON CENTER
- OA OVERALL
- OD OUTSIDE DIAMETER
- OH OVERHEAD
- OPP OPPOSITE
- ORD OVERFLOW ROOF DRAIN
- OTS OPEN TO STRUCTURE
- OFICI OWNER FINISHED CONTRACTOR INSTALLED
- PL PLATE
- PLM PLASTIC LAMINATE
- PVC POLY VINYL CHLORIDE
- PT PAINT
- QT QUARTZ
- RA RAISED ACCESS
- RAD RADIUS
- RD ROOF DRAIN
- RAF RESILIENT ATHLETIC FLOORING
- RES RESIN
- REV REVISION
- RO ROUGH OPENING
- ROW RIGHT-OF-WAY
- RUB RUBBER
- SF SQUARE FEET
- SIM SIMILAR
- SS SOLID SURFACE
- STN STONE
- ST STL STAINLESS STEEL
- SUSP SUSPENDED
- TO TOP OF
- TOC TOP OF CURB
- TOM TOP OF MASONRY
- TOS TOP OF SLAB / TOP OF STEEL
- TOW TOP OF WALL
- TP TOILET PARTITION
- TS TOP OF STAIR
- TYP TYPICAL
- UL UNDERWRITERS LABORATORIES, INC.
- UNO UNLESS NOTED OTHERWISE
- VERT VERTICAL
- WB WALL BASE
- WC WALL COVERING
- W/ WITH
- W/O WITHOUT
- WD WOOD
- WP WALL PROTECTION
- WT WINDOW TREATMENT
- WWF WELDED WIRE FABRIC



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City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

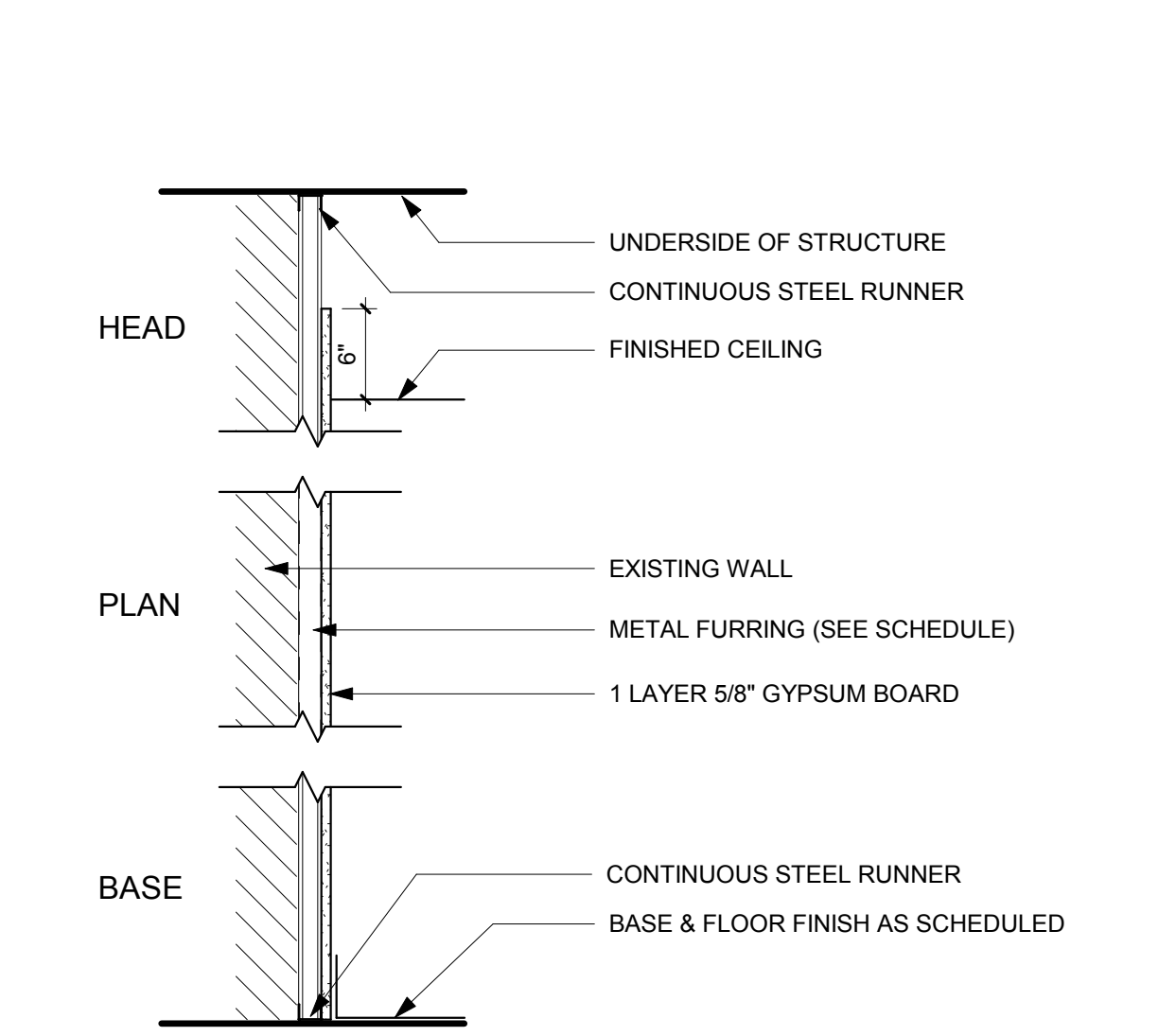
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GENERAL DRAWING
INFORMATION

Sheet Number
AG002

C2 EXTERIOR FURRED PARTITION

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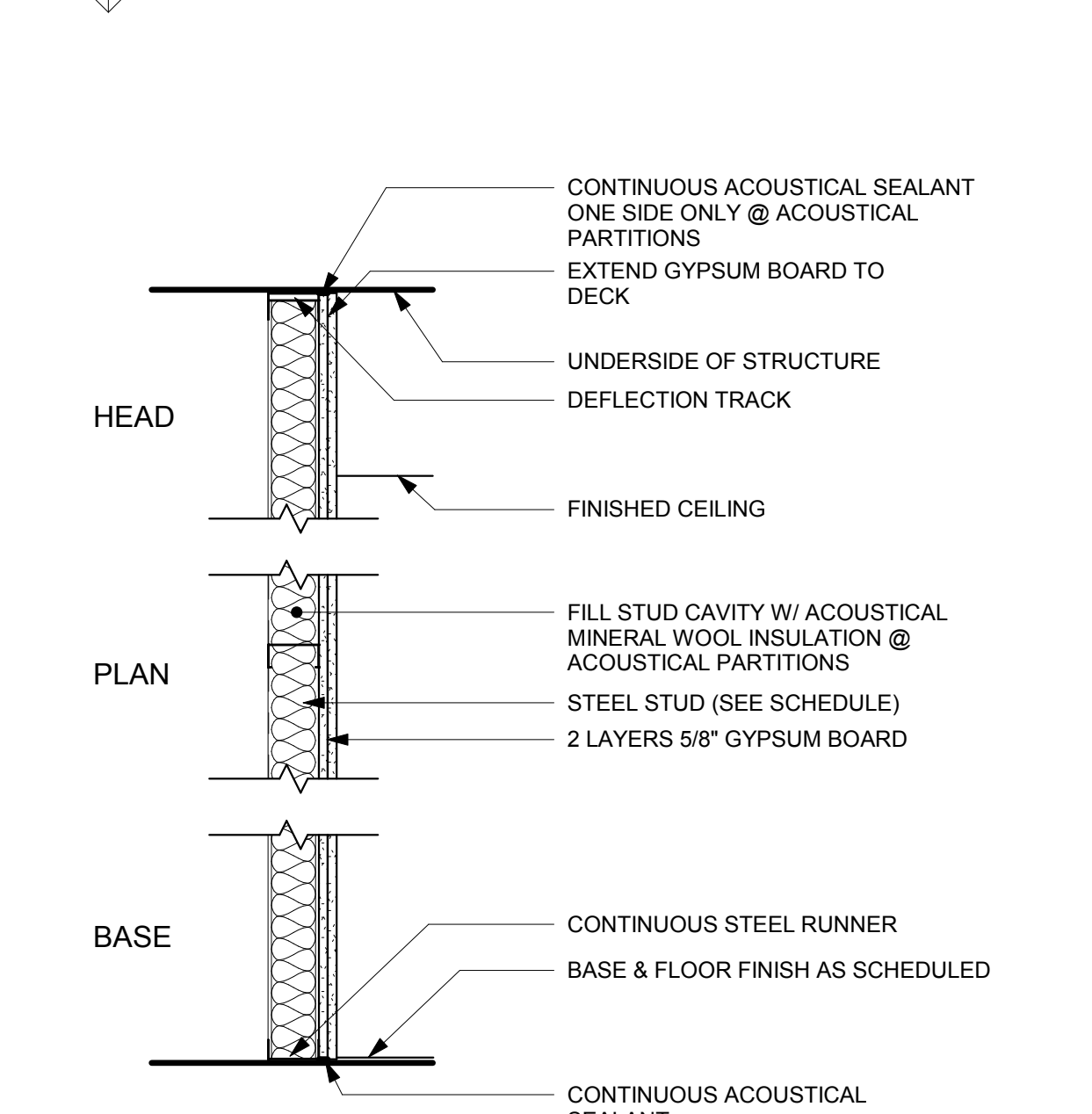
WIDTH	STUD SIZE
5/8"	N/A



C1 FURRED PARTITION

NON RATED / NON-LOAD BEARING

WIDTH	STUD SIZE
1 1/2"	7/8"
1 5/8"	1"
2 1/8"	1 1/2"
2 5/8"	2"
3 5/8"	3"



A3 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

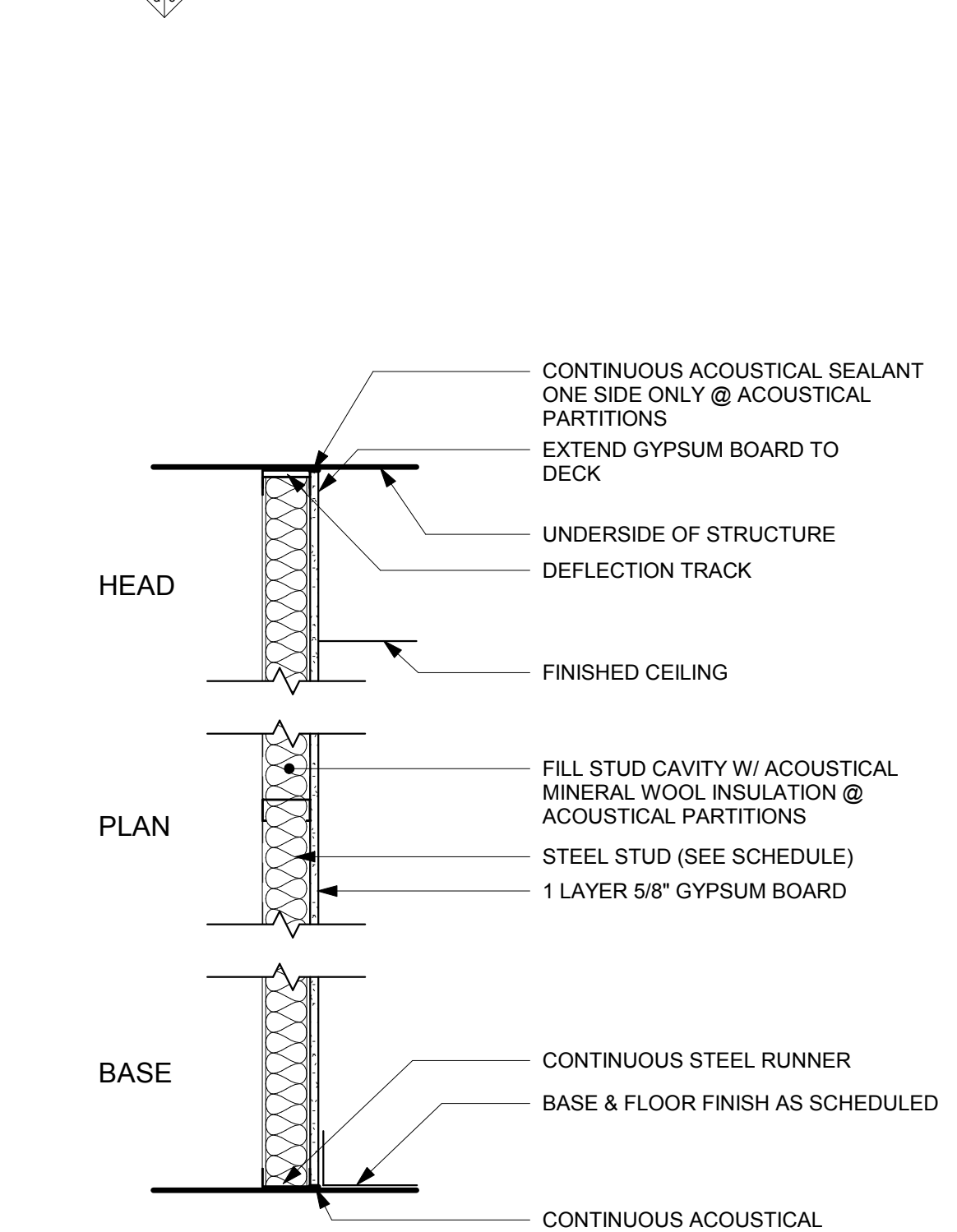
WIDTH	STUD SIZE
2 7/8"	1 5/8"
4 7/8"	3 5/8"
7 1/8"	6"



A6 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

WIDTH	STUD SIZE
2 3/4"	1 5/8"
4 3/4"	3 5/8"
7 1/8"	6"



A2 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

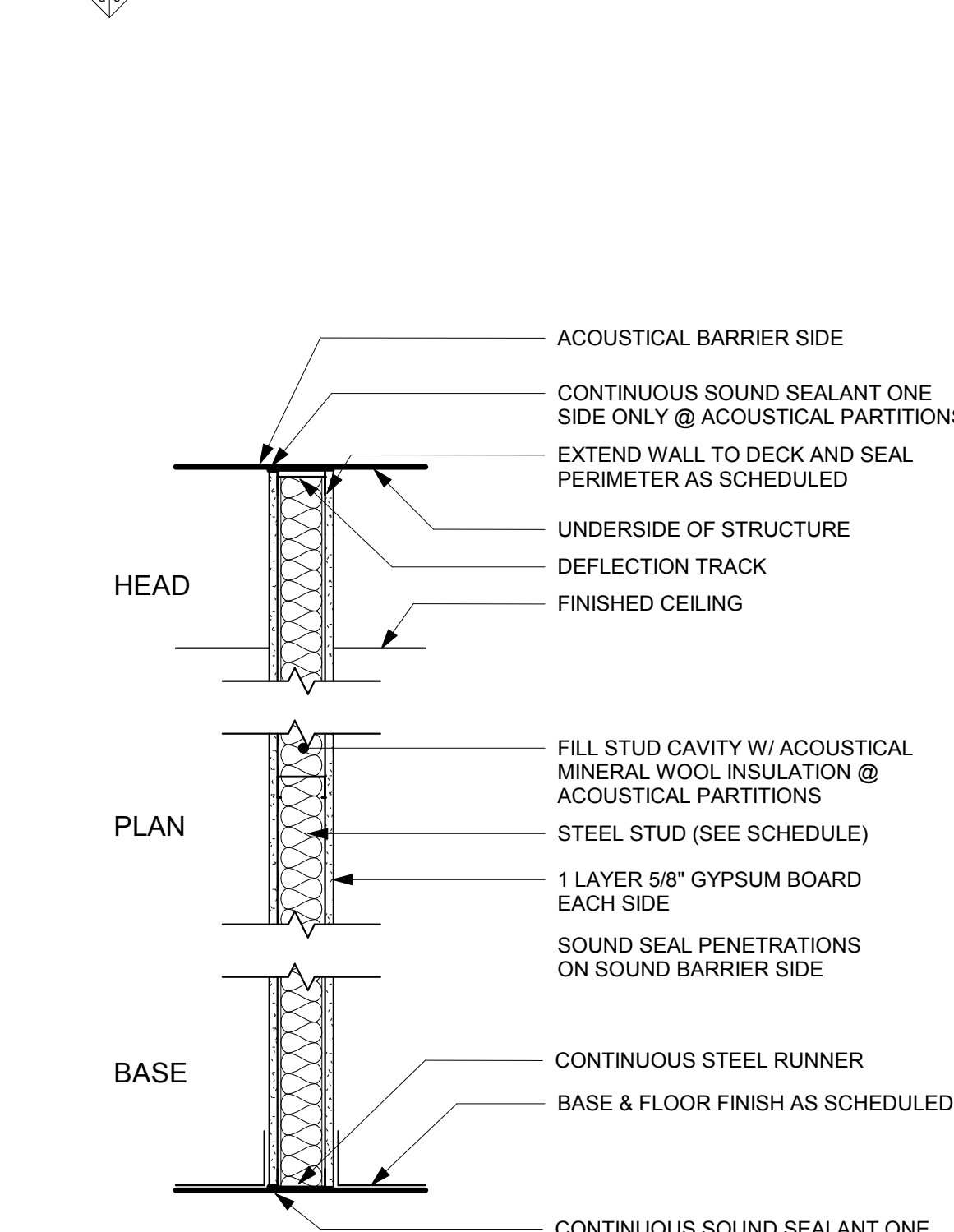
WIDTH	STUD SIZE
2 1/4"	1 5/8"
4 1/4"	3 5/8"
6 5/8"	6"



A5 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

WIDTH	STUD SIZE
3 3/8"	1 5/8"
5 3/8"	3 5/8"
7 3/4"	6"



A1 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

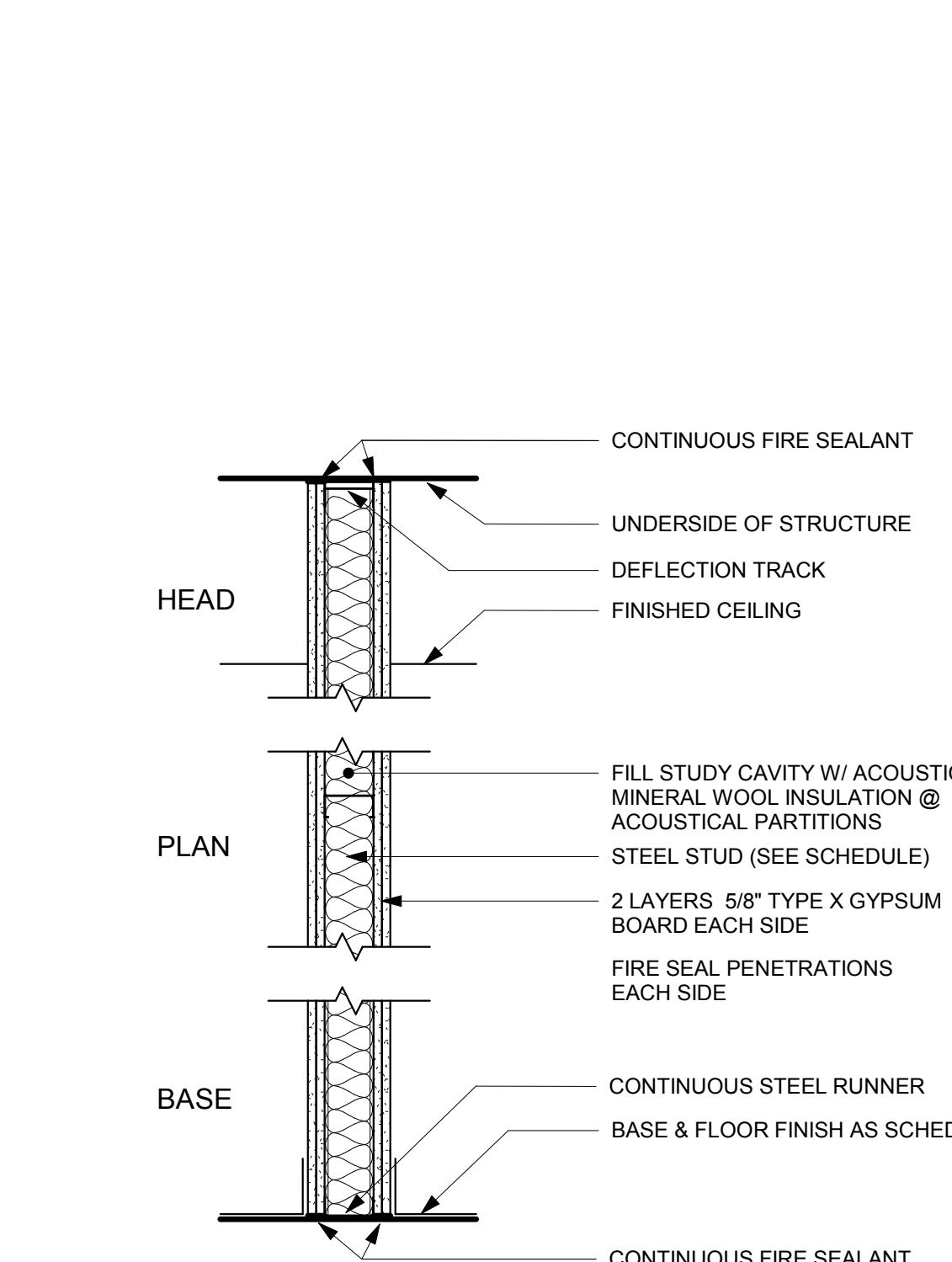
WIDTH	STUD SIZE	UL DESIGN NUMBER	STC RATING	FIRE RATING
4 7/8"	3 5/8"	U419	49	0-HR
7 1/4"	6"	U419	49	0-HR



A4 STEEL FRAMED PARTITION

NON RATED / NON-LOAD BEARING

WIDTH	STUD SIZE	UL DESIGN NUMBER	STC RATING	FIRE RATING
8 3/8"	6"	U453	59	0-HR



A1 STEEL FRAMED PARTITION

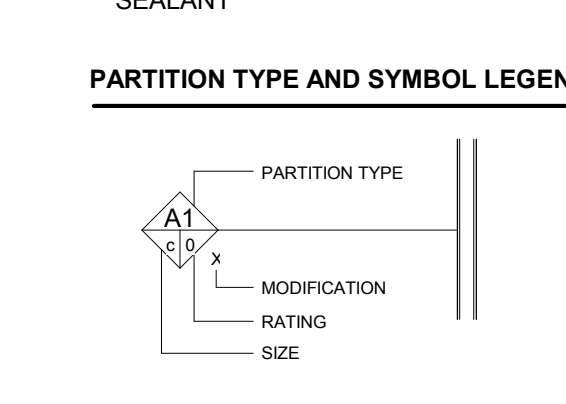
2 HOUR RATED / NON-LOAD BEARING

WIDTH	STUD SIZE	UL DESIGN NUMBER	STC RATING	FIRE RATING
6 1/8"	3 5/8"	U419	54	2-HR
8 1/2"	6"	U419	54	2-HR



- GENERAL NOTES**
- REFER TO FLOOR PLANS FOR PARTITION TYPE LOCATIONS.
 - STEEL FRAME PARTITIONS ARE BASED ON DESIGN INFORMATION INCLUDED IN PRODUCT TECHNICAL INFORMATION OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) PUBLICATION DATED 2000 AND THE FOLLOWING PERFORMANCE CRITERIA:
 - LIMITING HEIGHT CRITERIA:**
 - DEFLECTION OF L/360 AT ALL WALLS TO RECEIVE TILE
 - DEFLECTION OF L/240 AT ALL OTHER WALLS AT 5 LBS. PER SQ. FT.
 - THICKNESS - STEEL COMPONENTS:**

GAUGE	DESIGN THICKNESS
25	0.0188
22	0.0293
20	0.0346
18	0.0451
 - MINIMUM GAUGE:** IF LIMITING HEIGHT AS SCHEDULED IN PARTITION DETAILS EXCEEDS PROJECT CONDITIONS OR IF THE SELECTED STEEL STUD MANUFACTURER'S THICKNESS OF STEEL COMPONENTS VARIES FROM THE BASIS OF DESIGN AS SET FORTH ABOVE, PROVIDE MANUFACTURER'S STANDARD THICKNESS(GAUGE) THAT MEETS OR EXCEEDS LIMITING HEIGHT PERFORMANCE CRITERIA FOR STUD DEPTH AND SPACING INDICATED.
 - WOOD BLOCKING CONCEALED BY GYPSUM BOARD DOES NOT NEED TO BE FIRE TREATED.**
 - ACOUSTIC PARTITIONS:** REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT.



PARTITION TYPE	SYSTEM
A	STEEL FRAMED
B	SHAFT WALL
C	FURRED
D	MASONRY
E	SPECIAL FINISHES
T	TEMPORARY PARTITION

SIZE	STEEL STUD
a	1 5/8"
b	2 1/2"
c	3 5/8"
d	6"
e	7 1/4"
f	SHAFT WALL STUD
g	2 1/2"
h	4"
i	6"
j	7/8" Hat Channel
k	1" Z
l	1 1/2" Z
m	2" Z
n	3" Z
u	6"
v	12"

RATING	
0	NON-RATED
S	SMOKE
1	1 HOUR
2	2 HOUR
3	3 HOUR
4	4 HOUR



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Sheet Name
WALL TYPES

Sheet Number



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APPLICABLE CODE INFORMATION

APPLICABLE CODE PER CITY OF MADISON AND STATE OF WISCONSIN

2015 International Building Code (IBC)
2015 International Energy Conservation Code
2015 International Fuel Gas Code
2015 International Mechanical Code
International Fire Code

BUILDING DESCRIPTION

THE PROJECT INCLUDES A 20,460 SF FITOUT OF AN EXISTING 86 UNIT APARTMENT BUILDING ABOVE FIRST FLOOR COMMERCIAL SPACE WITH BASEMENT PARKING. THE FIT-OUT WILL OCCUPY HALF OF THE FIRST FLOOR AND WILL BE A SPRINKLERED, TYPE IA CONSTRUCTION WITH A 2-HR FIRE SEPARATION BETWEEN THE COMMERCIAL SPACE AND RESIDENTIAL UNITS. THE EXISTING CORE AND SHELL WILL BE CONSTRUCTED UNDER THE 2009 INTERNATIONAL BUILDING CODE AND THE NEW FIT-OUT WILL BE CONSTRUCTED UNDER THE 2015 INTERNATIONAL BUILDING CODE.

INTERNATIONAL BUILDING CODE SUMMARY

CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION

OCCUPANCY CLASSIFICATION: ASSEMBLY (A-3) LIBRARY

303.4 ASSEMBLY GROUP A-3

GROUP A-3 OCCUPANCY INCLUDES ASSEMBLY USES INTENDED FOR WORSHIP, RECREATION OR AMUSEMENT AND OTHER ASSEMBLY USES NOT CLASSIFIED ELSEWHERE IN GROUP A INCLUDING, BUT NOT LIMITED TO:
LIBRARIES

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

THE EXISTING BUILDING HEIGHTS AND AREAS MEET THE REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE FOR BOTH HEIGHTS AND AREA FOR WHICH THE BUILDING WAS DESIGNED AND CONSTRUCTED. NO ALTERATIONS TO THE BUILDING HEIGHTS OR AREAS ARE MADE AS PART OF THIS PROJECT.

508 MIXED USE AND OCCUPANCY

508.1 GENERAL
ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES THAT ARE ANCILLARY TO THE MAIN OCCUPANCY OF THE BUILDING OR PORTION THEREOF. ACCESSORY OCCUPANCIES SHALL COMPLY WITH THE PROVISIONS OF SECTIONS 508.2.1 THROUGH 508.2.4.

508.2.4 SEPARATION OF OCCUPANCIES

NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY.

CHAPTER 6 - TYPES OF CONSTRUCTION

THE EXISTING SPACE WAS CONSTRUCTED AS A SPRINKLERED, TYPE I BUILDING PER 2009 IBC. NO ALTERATIONS TO THE TYPE OF CONSTRUCTION OR FIRE RATINGS ARE MADE AS PART OF THIS PROJECT.

ALL FIRE RATINGS WILL BE MAINTAINED IN ACCORDANCE WITH SECTION 602.2.

CHAPTER 9 - FIRE PROTECTION SYSTEMS

THE EXISTING SPACE WAS CONSTRUCTED AS A SPRINKLERED SPACE PER 2009 IBC.

MODIFICATIONS TO THE SYSTEM WILL BE MADE TO ACCOMMODATE THE NEW SPACE CONFIGURATION AND WILL BE UPDATED TO THE LATEST CODE.

906 PORTABLE FIRE EXTINGUISHERS

906.3 SIZE AND DISTRIBUTION
THE SIZE AND DISTRIBUTION OF PORTABLE FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH SECTIONS 906.1 THROUGH 906.3.4.
MAX TRAVEL DISTANCE = 75 FEET.

CHAPTER 10 - MEANS OF EGRESS

1004 DESIGN OCCUPANT LOAD

LIBRARY		
A-3 ASSEMBLY		
100 GSF/OCCUPANT (STACK AREA)	13013 GSF/100 =	131 OCCUPANTS
100 GSF/OCCUPANT (STAFF AREA)	3646 GSF/100 =	37 OCCUPANTS
50 GSF/OCCUPANT (READING AREA)	1138 GSF/50 =	41 OCCUPANTS
15 SF/OCCUPANT (ASSEMBLY, UNCONCENTRATED)	723 NSF/15 =	154 OCCUPANTS
15 SF/OCCUPANT (OUTDOOR ASSEMBLY, UNCONCENTRATED)	2097 NSF/15 =	140 OCCUPANTS
300SF/OCCUPANT (MECHANICAL)	881 GSF/300 =	03 OCCUPANTS

TOTAL 506 OCCUPANTS

1005 MEANS OF EGRESS SIZING

EGRESS WIDTH
0.2" X 506 OCCUPANTS = REQUIRED 100.6" < PROVIDED = 260"

1006.2.1 EGRESS BASED ON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1.

1017 EXIT ACCESS TRAVEL DISTANCE

TRAVEL DISTANCE WITHIN THE EXIT ACCESS PORTION OF THE MEANS OF EGRESS SYSTEM SHALL BE IN ACCORDANCE WITH THIS SECTION

A OCCUPANCY	=	250 TRAVEL DISTANCE (W/ SPRINKLER SYSTEM)
B OCCUPANCY	=	300 TRAVEL DISTANCE (W/ SPRINKLER SYSTEM)

1020 DEAD ENDS

WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20 FEET IN LENGTH.
EXCEPTION 2:

IN OCCUPANCIES IN GROUPS B, E, F, I-1, M, R-1, R-2, R-4, A AND Y, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE LENGTH OF THE DEAD-END CORRIDORS SHALL NOT EXCEED 50 FEET.

EXCEPTION 3:

A DEAD-END CORRIDOR SHALL NOT BE LIMITED IN LENGTH WHERE THE LENGTH OF THE DEAD-END CORRIDOR IS LESS THAN 2.5 TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR.

1024 EXIT PASSAGEWAYS

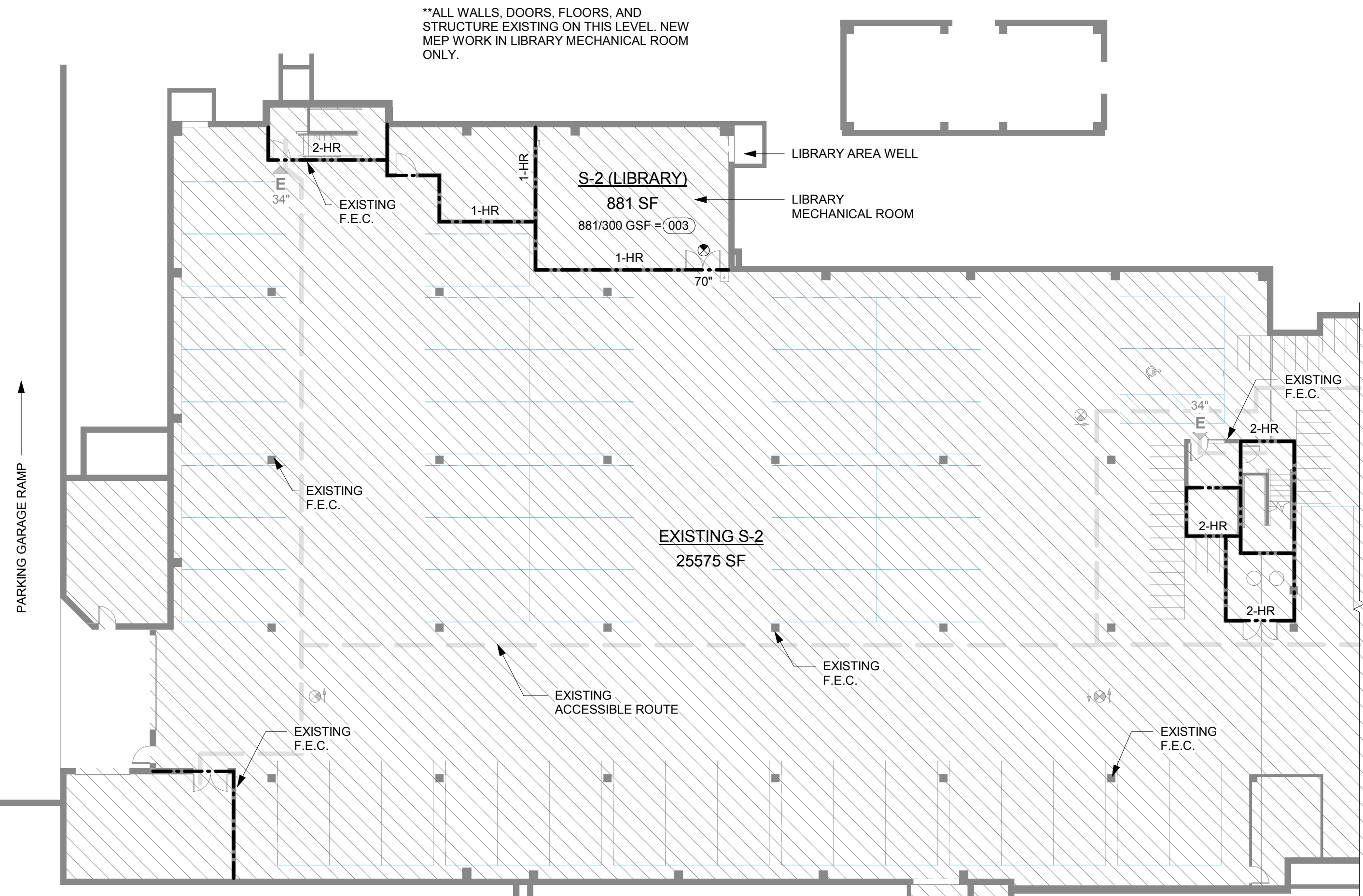
1024.2 WIDTH
THE REQUIRED CAPACITY OF EXIT PASSAGEWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1 BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES. EXCEPT THAT EXIT PASSAGEWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL BE NOT LESS THAN 36 INCHES IN WIDTH. THE MINIMUM WIDTH OR REQUIRED CAPACITY OF EXIT PASSAGEWAYS SHALL BE UNOBSTRUCTED.

CHAPTER 29 - PLUMBING SYSTEMS

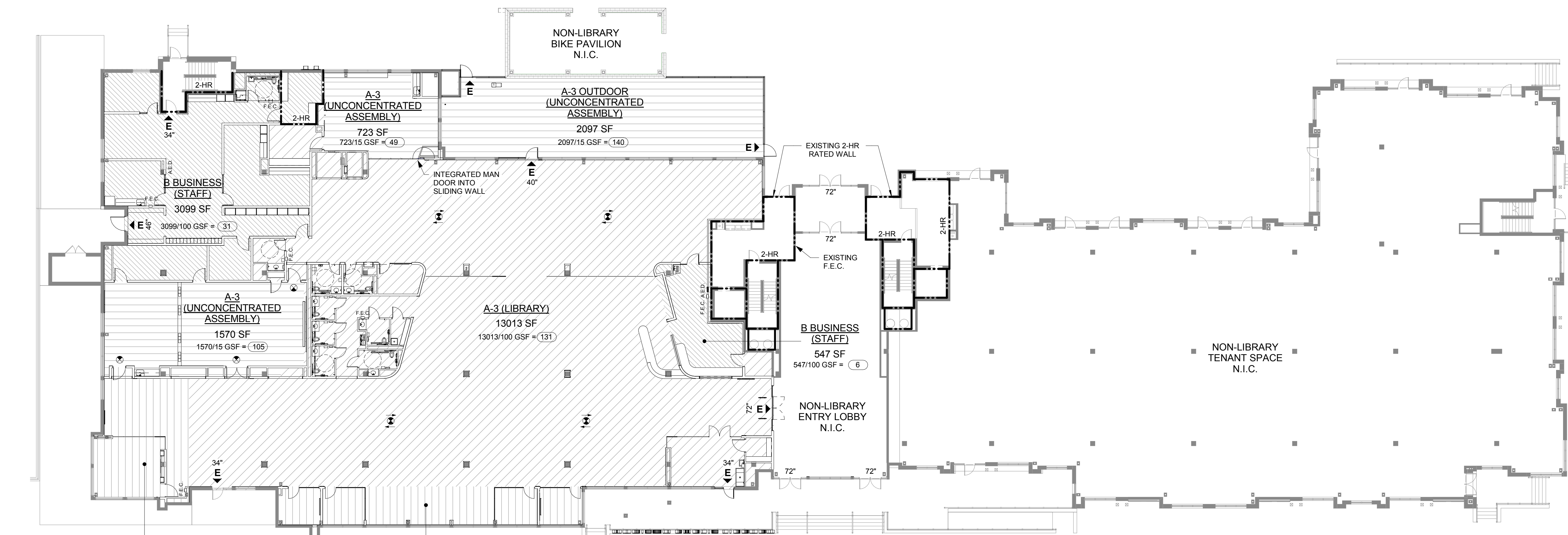
DESIGN OCCUPANT LOAD = 506 OCCUPANTS / 2 = 253 MALE & 253 FEMALE

A-3 IS THE MAIN OCCUPANCY CLASSIFICATION AND IS ASSUMED FOR THE ENTIRE FACILITY: AUDITORIUMS WITHOUT PERMANENT SEATING, ART GALLERIES, EXHIBITION HALLS, MUSEUMS, LECTURE HALLS, LIBRARIES, ARCADES AND GYMNASIUMS.

REQUIRED OCCUPANCY	MALE W/C	FEMALE W/C	LAVS	BATH/SHWR	DF	OTHER
A-3	1/125	1/65	1/200	0	1/500	1 SERVICE SINK
CALCULATED OCCUPANCY	MALE W/C	FEMALE W/C	LAVS	BATH/SHWR	DF	OTHER
A-3	253/125 = 2.024	253/65 = 3.892	506/200 = 2.53	1	506/500 = 1.012	1 SERVICE SINK
PROVIDED OCCUPANCY	MALE W/C	FEMALE W/C	LAVS	BATH/SHWR	DF	OTHER
A-3	3	4	8	1	3	1 SERVICE SINK
	8 UNISEX TOILETS PROVIDED (1 EXTRA)		8 UNISEX LAVS PROVIDED (5 EXTRA)	1 SHOWER	3 DF	1 SERVICE SINK



2 BASEMENT CODE PLAN
1/16" = 1'-0"



1 LEVEL 1 CODE PLAN
1/16" = 1'-0"

CODE PLAN LEGEND

- 1 HR FIRE BARRIER
 - 2 HR FIRE BARRIER
 - NON-RATED WALL
 - EXISTING WALL
 - F.E.C. FIRE EXTINGUISHER CABINET
 - A.E.D. AUTOMATED EXTERNAL DEFIBRILLATOR
 - 100 S.F. (GROSS) PER OCCUPANT LIBRARY STACKS (A-3)
 - 50 S.F. (NET) PER OCCUPANT LIBRARY READING ROOMS (A-3)
 - 15 S.F. (NET) PER OCCUPANT ASSEMBLY (UNCONCENTRATED) AREAS (A-3)
 - 300 S.F. (GROSS) PER OCCUPANT MECHANICAL ROOM / EXISTING PARKING GARAGE (S-2)
 - 100 S.F. (GROSS) PER OCCUPANT STAFF WORK (B)
 - 002 OCCUPANT LOAD
- REQUIRED EGRESS WIDTH:
STAIRWAY = 2/PERSON (SEC. 1005.3.1 - EXCEPTION)
DOORS = 15/PERSON (SEC. 1005.3.2 - EXCEPTION)

Key Plan

Revision Date

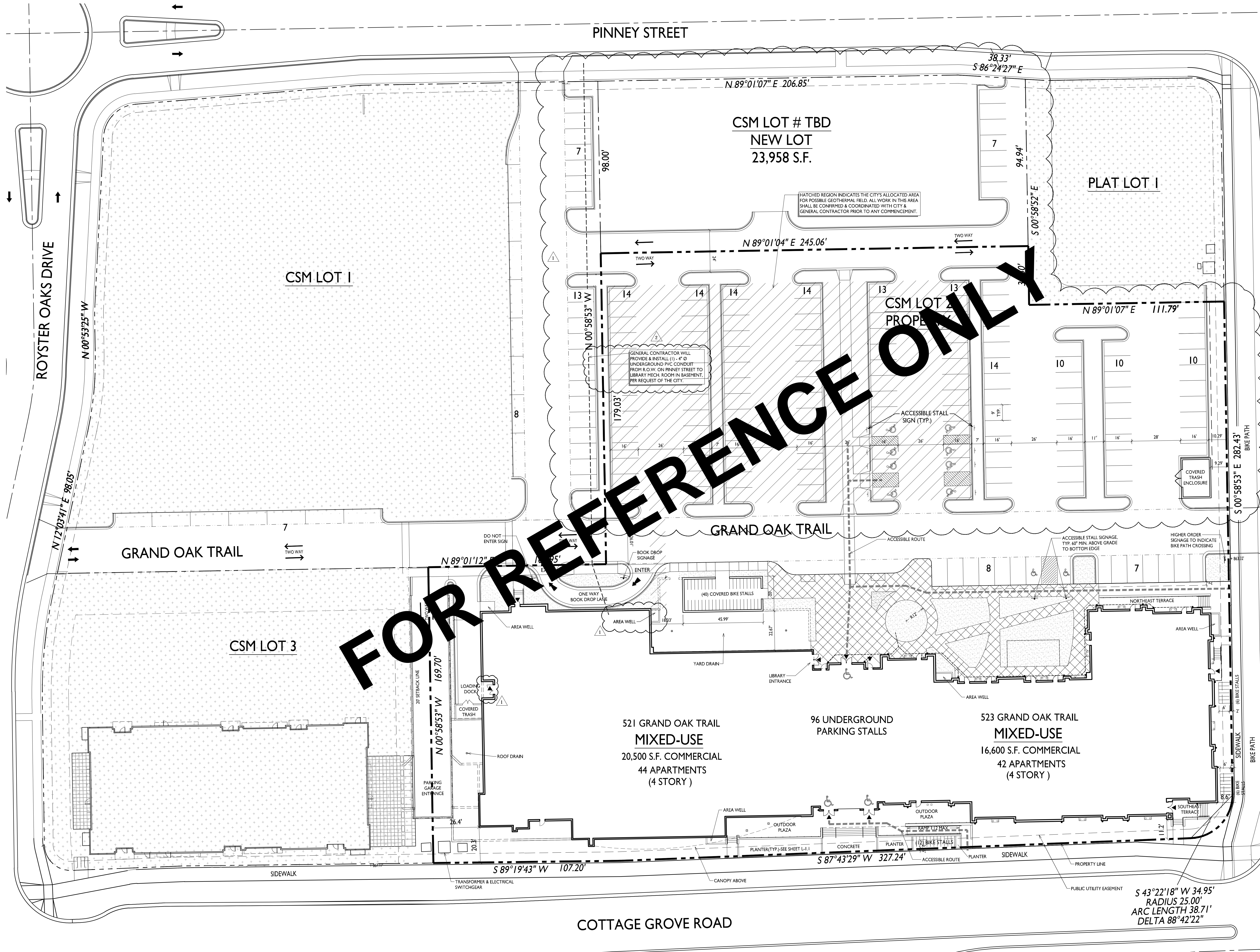
City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
CODE REVIEW & LIFE SAFETY PLAN

Sheet Number
AG004



SITE DEVELOPMENT STATISTICS

LOT AREA	136,599 S.F. / 3.13 ACRES
DWELLING UNITS	86 DU
LOT AREA/D.U.	1,588 S.F./D.U.
DENSITY	27.46 UNITS/ACRE
BUILDING HEIGHT	4 STORIES
USABLE OPEN SPACE	27,194 S.F. (316 UNIT)
LOT COVERAGE	114,107 S.F. (83%)
CROSS FLOOR AREA	
COMMERCIAL AREA	37,100 S.F.
RESIDENTIAL AREA	104,465 S.F.
TOTAL	141,565 S.F.
UNIT MIX	
ONE BEDROOM	46
ONE BEDROOM + DEN	6
TWO BEDROOM	34
TOTAL	86
VEHICLE PARKING	
ON SITE	183 STALLS
UNDERGROUND	96 STALLS
TOTAL	279 STALLS
ACCESSIBLE STALLS ON SITE	
ACCESSIBLE STALLS UNDERGROUND	2
TOTAL ACCESSIBLE STALLS	2
CSM LOT 2 - ON SITE PARKING ALLOCATION	
LIBRARY	80 STALLS
MIXED USE	61 STALLS
TOTAL	141 STALLS
BICYCLE PARKING	
UNDERGROUND 2X6	78
ON SITE COVERED	40
ON SITE UNCOVERED	24
TOTAL PROVIDED	142 STALLS
TOTAL REQUIRED - 114 (86 PERMANENT FOR APARTMENTS, 9 GUEST FOR APARTMENTS, 19 GUEST FOR COMMERCIAL SPACE)	

ISSUED
Issued for Bid: September 25, 2015
Revised Bid Set: January 19, 2016
Issued For Plan Review: February 8, 2016
Revised: March 23, 2016

Revised - September 15, 2017
Implemented City's August 7, 2017
C-1 Clarifications

PROJECT TITLE
ROYSER CROSSINGS

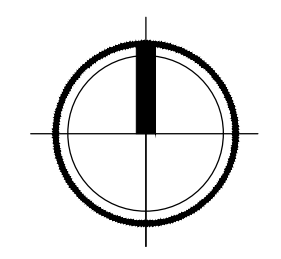
521-523 Grand Oak Trail
MADISON, WI
SHEET TITLE
Site Plan

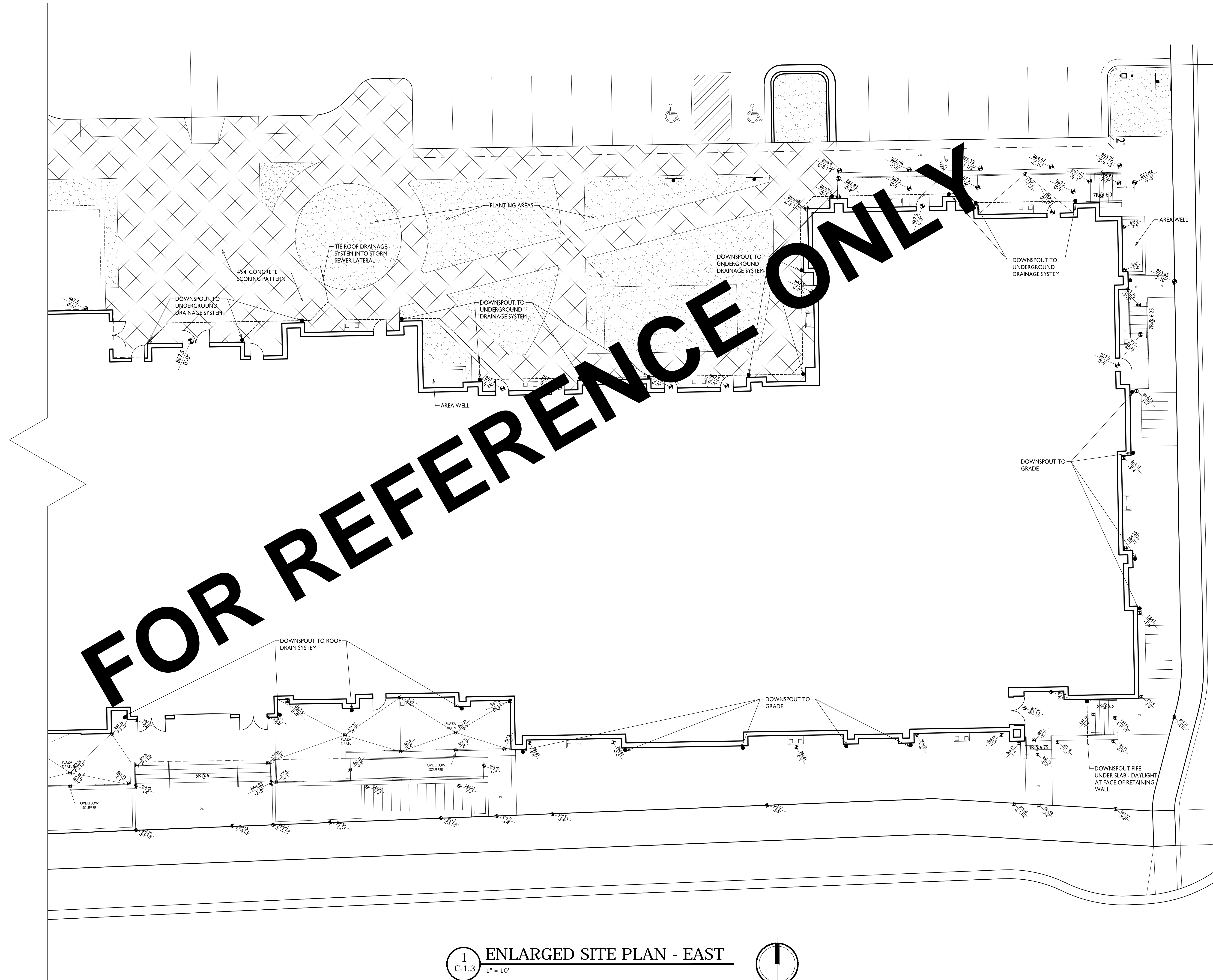
SHEET NUMBER

C-1.1

PROJECT NO. 1421
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1 SITE PLAN
C-1.1 1" = 20'





ISSUED
 Issued for Bid: September 25, 2015
 Revised Bid Set: January 19, 2016
 Issued For Plan Review: February 8, 2016

PROJECT TITLE
**ROYSTER
 CROSSINGS**

521-523 Grand Oak Trail
 MADISON, WI
 SHEET TITLE
**Enlarged
 Site Plan - East**

1 ENLARGED SITE PLAN - EAST
 C-1.3 1" = 10'

SHEET NUMBER

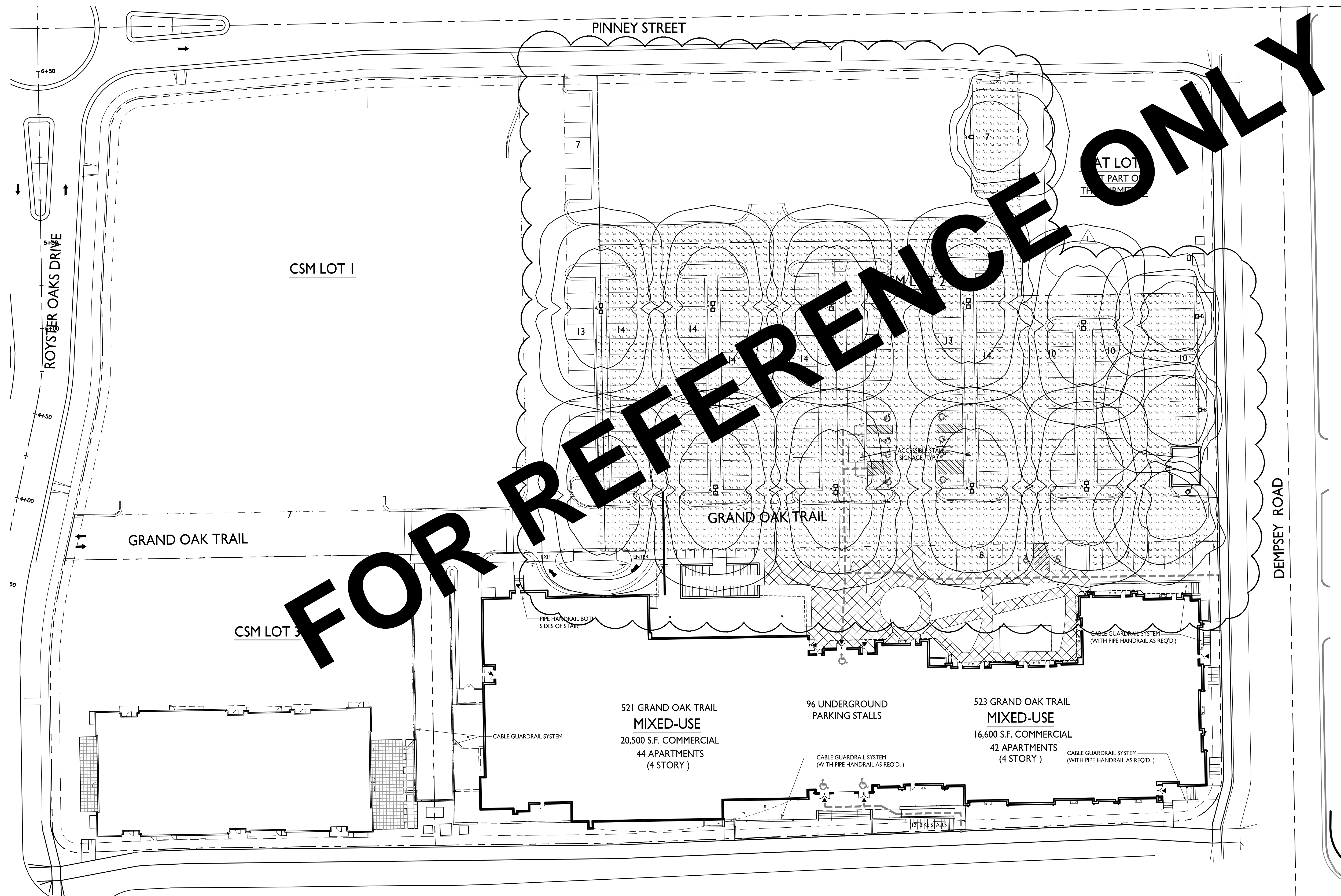
C-1.3

PROJECT NO. 1421
 © 2013 Knothe & Bruce Architects, LLC

LIGHTING SCHEDULE							
Symbol	Label	Qty	Manufacturer	Catalog Number	Description	Lamp	Mounting
□	A	10	RUUD LIGHTING	MAC410SBL	12" AREA CUTOFF w/ BACK LT. SHIELD	175W MH	20'-0" POLE ON 6" TALL CONC. BASE
□	B	4	RUUD LIGHTING	MAC410SBL	12" AREA CUTOFF w/ BACK LT. SHIELD	175W MH	20'-0" POLE ON 6" TALL CONC. BASE

EXAMPLE LIGHT FIXTURE DISTRIBUTION

LIGHTING STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING / DRIVE	+	1.3 fc	4.1 fc	0.3 fc	13.7:1	4.3:1



1 SITE LIGHTING PLAN
C-1.4 1" = 30'-0"

ISSUED
Issued for Bid: September 25, 2015
Revised Bid Set: January 19, 2016
Issued For Plan Review: February 8, 2016

Implemented City's August 7, 2017
2017 Clarifications

PROJECT TITLE
ROYSER CROSSINGS

521-523 Grand Oak Trail
MADISON, WI
SHEET TITLE
Site Lighting Plan

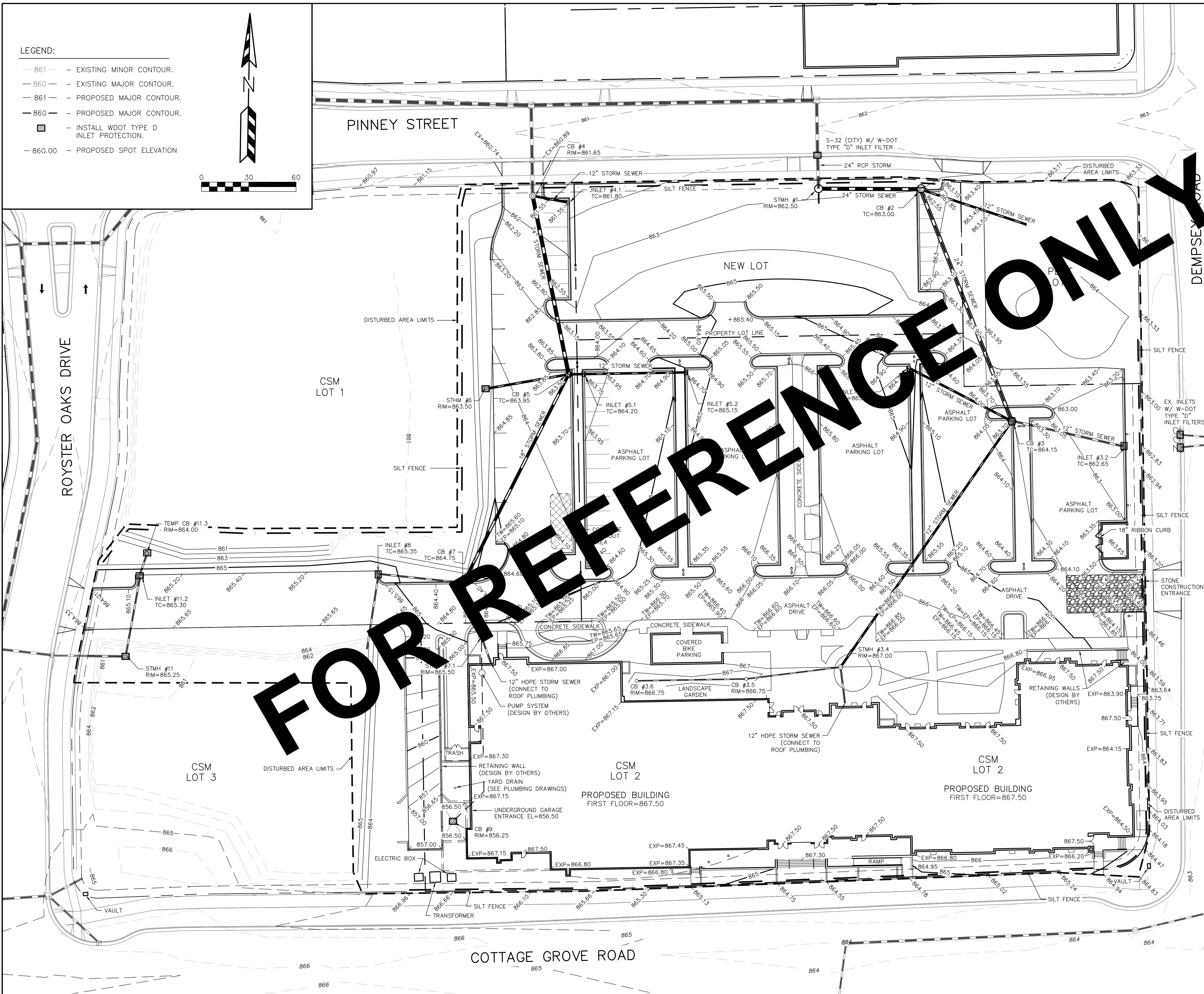
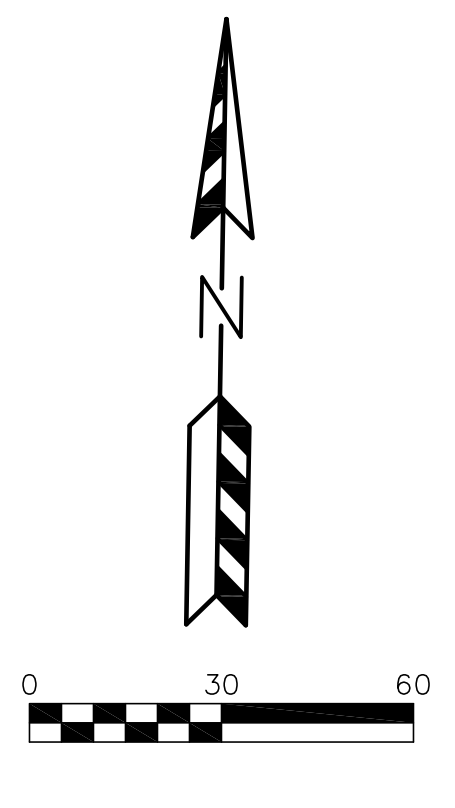
SHEET NUMBER

C-1.4

PROJECT NO. | 421
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- LEGEND:**
- 861 - EXISTING MINOR CONTOUR.
 - 860 - EXISTING MAJOR CONTOUR.
 - 861 - PROPOSED MAJOR CONTOUR.
 - 860 - PROPOSED MAJOR CONTOUR.
 - ☐ - INSTALL WOOD TYPE D INLET PROTECTION.
 - 860.00 - PROPOSED SPOT ELEVATION



FOR REFERENCE ONLY

EROSION NOTES:

1. STONE CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE TRACKING PADS ARE TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION, WHICH WILL PREVENT THE TRACK OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS (HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.
2. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
3. INLET PROTECTION SHALL BE INSTALLED IN ALL STORM INLETS AS SOON AS THE INLET IS SET. INLET PROTECTION SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL THE CITY HAS ACCEPTED THE SURFACE COURSE OF ASPHALT. THE FILTER SHALL BE REMOVED AFTER THE FINAL LAYER OF ASPHALT IS PLACED.
4. CUT AND FILL SLOPES SHALL BE NO GREATER THAN 4:1.
5. THE EROSION CONTROL MEASURES, METHODS AND STRUCTURES SHOWN IN THE PLANS SHALL BE CONSIDERED THE MINIMUM EROSION CONTROL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES UNTIL THE DISTURBED AREA IS STABILIZED. THE SITE WILL BE CONSIDERED STABLE WHEN NO SOIL LEAVES THE SITE AS A RESULT OF STORM EVENTS OR CONSTRUCTION DEMATERING ACTIVITIES. ADJUSTMENTS SHALL BE MADE TO THE EROSION CONTROL MEASURES AS REQUIRED. ANY COMMENTS OR CONDITIONS OF THE STATE NR 216 PERMIT OR CITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER OF THIS PROJECT INCLUDING REQUIRED EROSION CONTROL INSPECTION LOGS.
6. ANY PROPOSED CHANGES TO THE APPROVED EROSION CONTROL PLAN MUST BE APPROVED BY THE CITY ENGINEER.

TIME SCHEDULE:

OCTOBER 2, 2017	INSTALL STONE CONSTRUCTION ENTRANCE AND SILT FENCE.
OCTOBER 2, 2017 - JULY 2, 2018	CONSTRUCT BUILDING AND PARKING LOT AND RESTORE PERVIOUS DISTURBED AREAS.

RESTORATION NOTES:

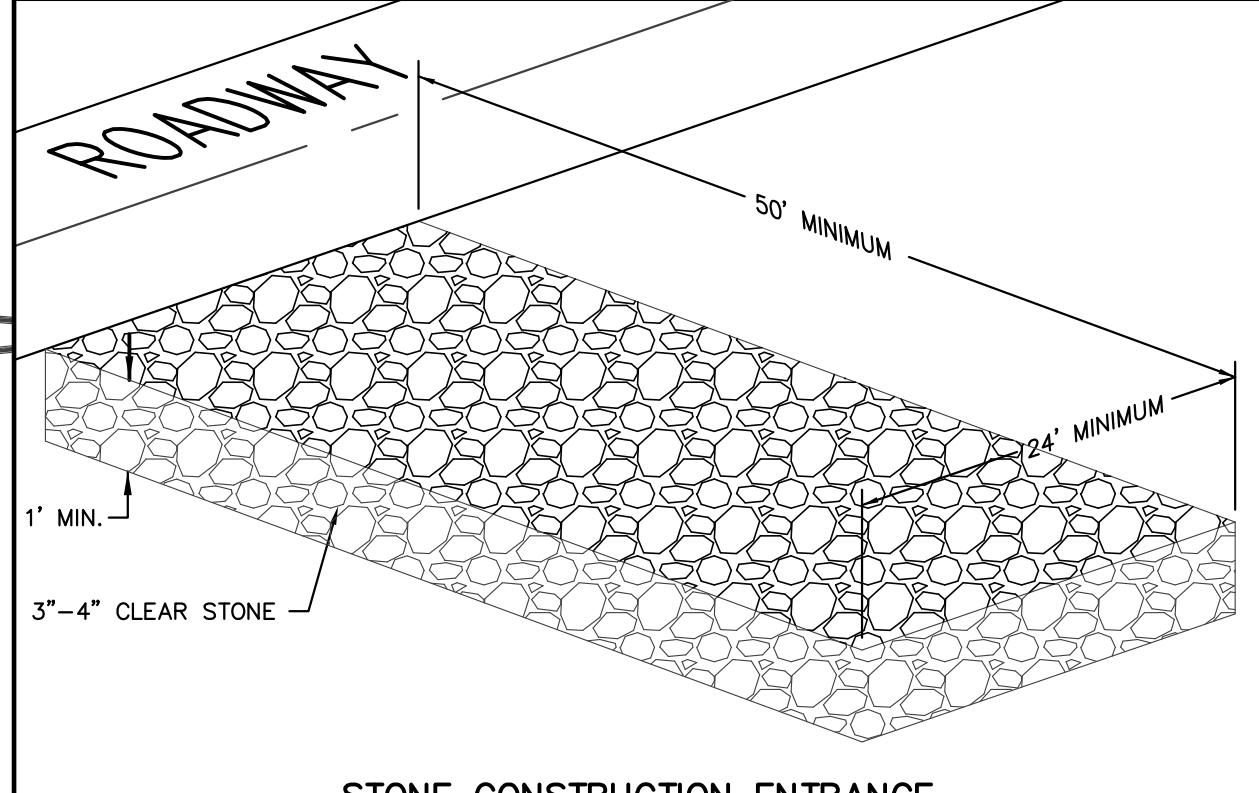
ALL PERVIOUS DISTURBED AREAS SHALL RECEIVE A MINIMUM OF SIX (6) INCHES OF TOPSOIL, SEED AND MULCH. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. SEED MIXTURE 40 SHALL BE USED ON ALL DISTURBED AREAS. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX. SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. MULCH SHALL CONSIST OF HAY OR STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE. FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 6%; POTASH, NOT LESS THAN 6%.

OWNER:

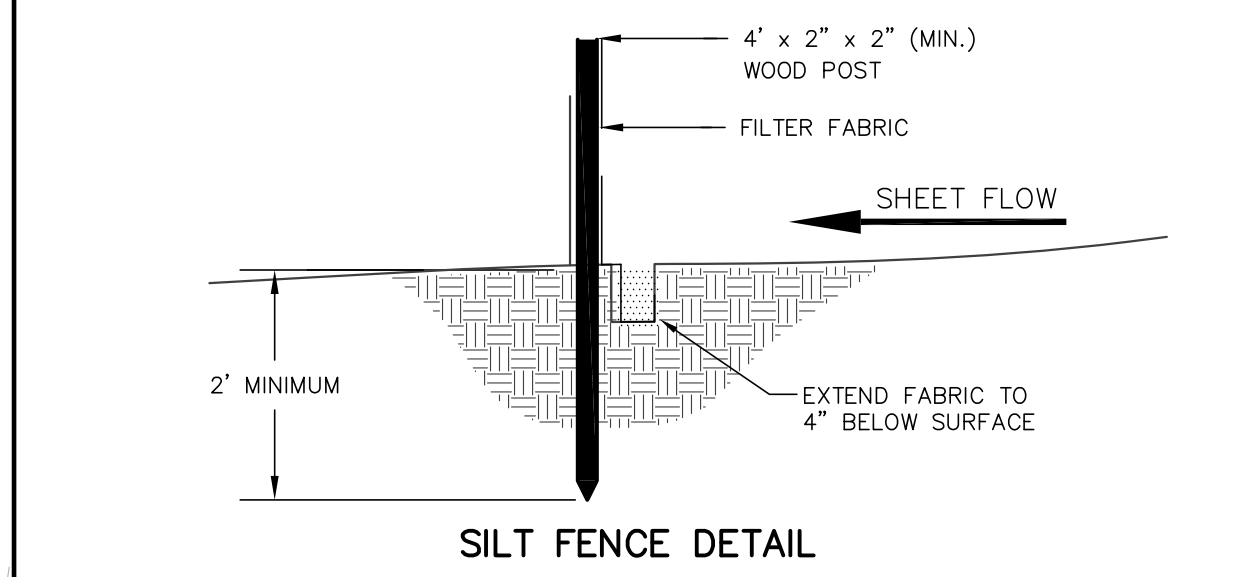
RUEDEBUSH DEVELOPMENT & CONSTRUCTION
4605 DOWNTOWN DRIVE
MADISON, WI 53704

ENGINEER:

QUAM ENGINEERING, LLC
ATTN: RYAN QUAM
4604 SIGGELKOW ROAD, SUITE A
MCFARLAND, WI 53558



STONE CONSTRUCTION ENTRANCE



SILT FENCE DETAIL

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
TDD (FOR THE HEARING IMPAIRED) (800) 542-2289
WI. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

ROYSTER CORNERS DEVELOPMENT - LOT 2
GRADING AND EROSION CONTROL PLAN
 DATED: AUGUST 4, 2017 **C-2.0**

QUAM ENGINEERING, LLC
 Residential and Commercial Site Design Consultants
www.quamengineering.com
 4604 Siggeikow Road, Suite A - McFarland, Wisconsin 53558
 Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Sigelkow Road, Suite A - McFarland, WI 53558 (608) 838-7750 RD-07-12\RD07BASE.DWG

GENERAL NOTES:
 ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR.
 ANY DAMAGE TO THE PUBLIC INFRASTRUCTURE INCLUDING SIDEWALK, CURB AND GUTTER, STREET PAVEMENT, AND PUBLIC UTILITIES RESULTING FROM CONSTRUCTION OF THIS DEVELOPMENT SHALL BE THE APPLICANT'S RESPONSIBILITY TO REPAIR.

UTILITY NOTES:
 CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS, SIZES, AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER.
 THIS PROPERTY IS NOT IN A WELLHEAD PROTECTION DISTRICT. ALL WELLS ON PROPERTY SHALL BE ABANDONED IF NO VALID WELL OPERATION PERMIT HAS BEEN OBTAINED FROM MADISON WATER UTILITY.
 ALL WATER MAIN SHALL BE BURIED TO A DEPTH OF 6.5 FEET. THE DEPTH IS DEFINED AS THE DISTANCE BETWEEN THE FINISHED GRADE ELEVATION AND THE TOP OF WATER MAIN OR SERVICE.
 ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY OF MADISON STANDARD SPECS.
 CONTRACTOR SHALL OBTAIN ALL NECESSARY SEWER CONNECTION PERMITS AND SEWER PLUGGING PERMITS PRIOR TO ANY UTILITY WORK. THE PERMIT APPLICATION IS AVAILABLE ON LINE AT [HTTP://WWW.CITYOFMADISON.COM/ENGINEERING/PERMITS.CFM](http://www.cityofmadison.com/engineering/permits.cfm).
 CONTRACTOR SHALL OBTAIN A CONNECTION PERMIT AND EXCAVATION PERMIT PRIOR TO COMMENCING STORM SEWER CONSTRUCTION AND 37.05(2). PERMIT APPLICATION IS AVAILABLE ON LINE AT [HTTP://WWW.CITYOFMADISON.COM/ENGINEERING/PERMITS.CFM](http://www.cityofmadison.com/engineering/permits.cfm).
 ALL UNDERGROUND EXTERIOR NON-METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORDANCE WITH 182.0715(2r) OF STATE STATUTES.
 CONTRACTOR SHALL FIELD VERIFY SANITARY, WATER, & STORM SEWER LATERALS PRIOR TO CONSTRUCTION.
 CONTRACTOR SHALL PROVIDE A CONCRETE MANAGEMENT AND WASHOUT AREA, AS SHOWN ON PLAN, TO PREVENT CONCRETE WASTE FROM ENTERING THE CITY RIGHT-OF-WAY.

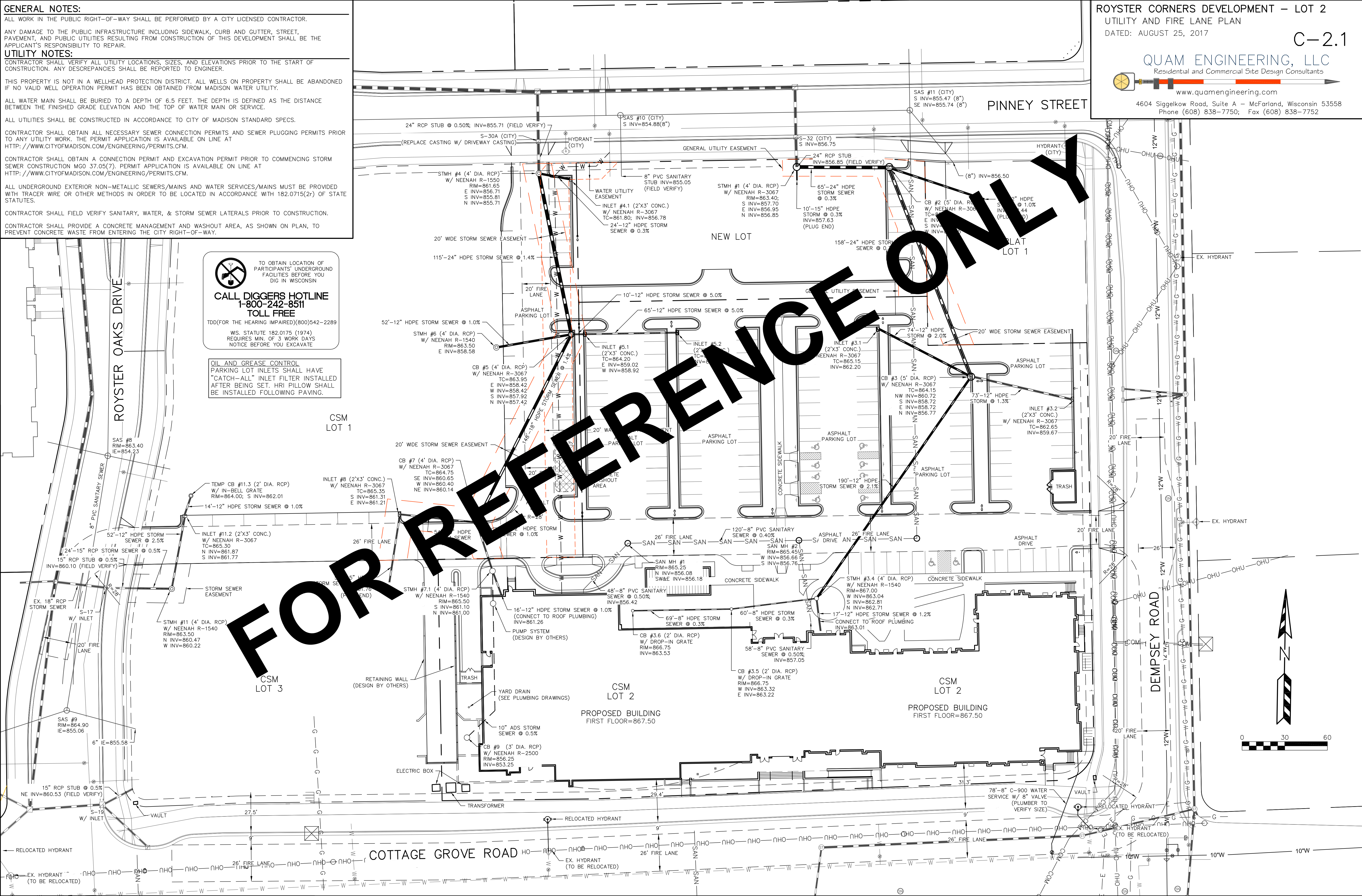
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
 TDD(FOR THE HEARING IMPAIRED)(800)542-2289
 WIS. STATUTE 182.0715 (1974)
 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

OIL AND GREASE CONTROL
 PARKING LOT INLETS SHALL HAVE "CATCH-ALL" INLET FILTER INSTALLED AFTER BEING SET. HRI PILLLOW SHALL BE INSTALLED FOLLOWING PAVING.

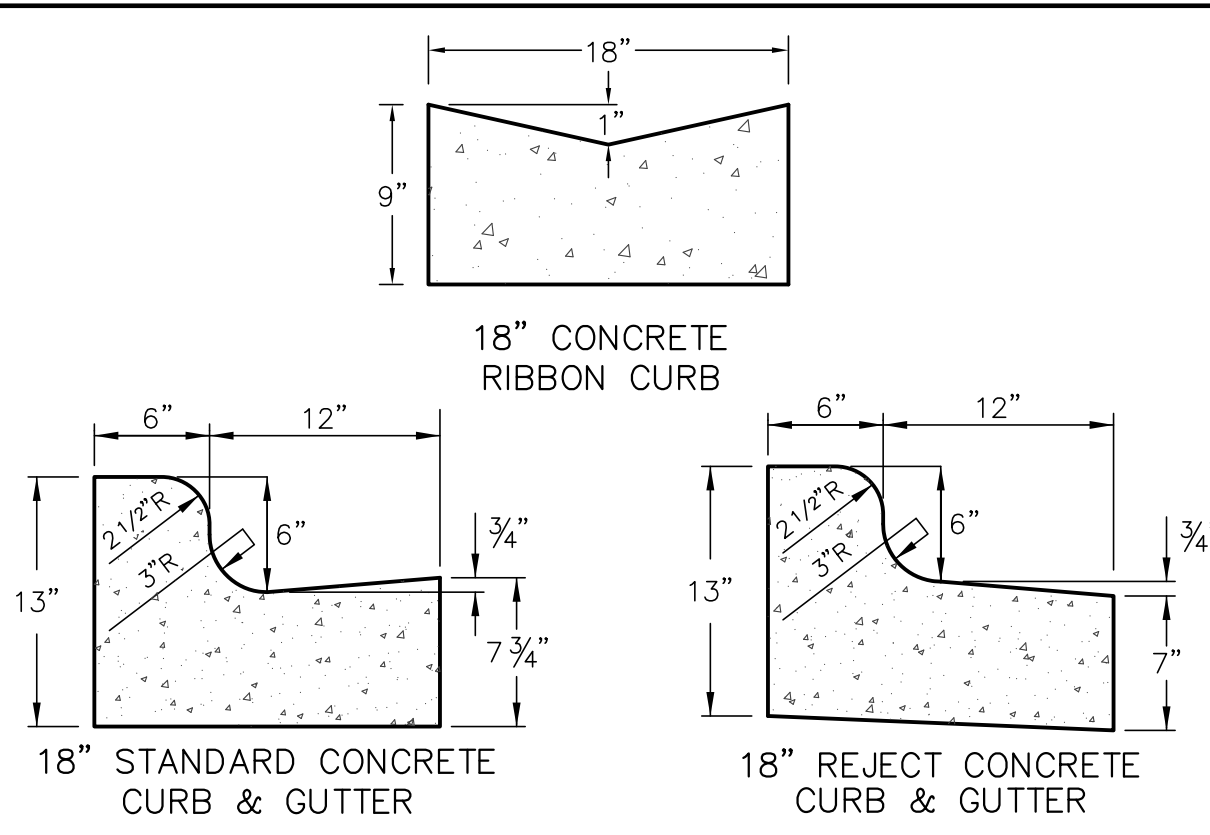
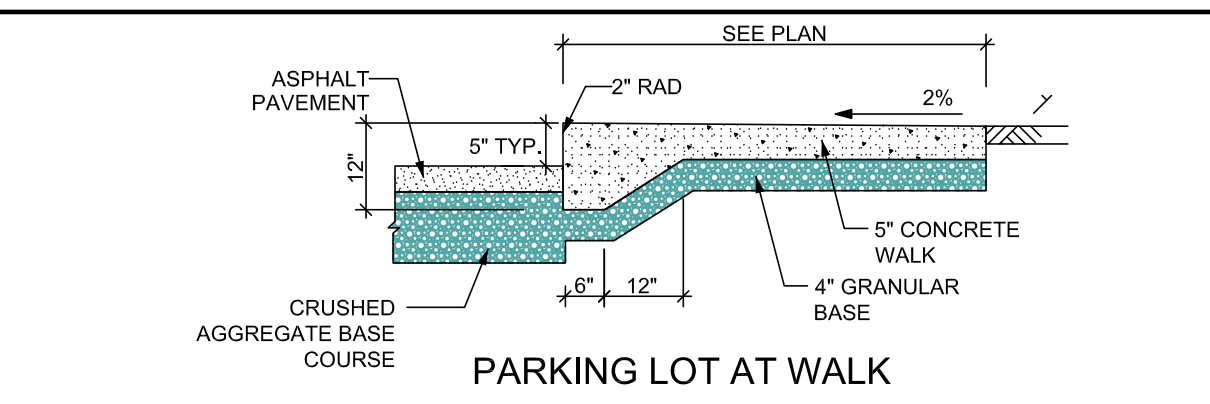
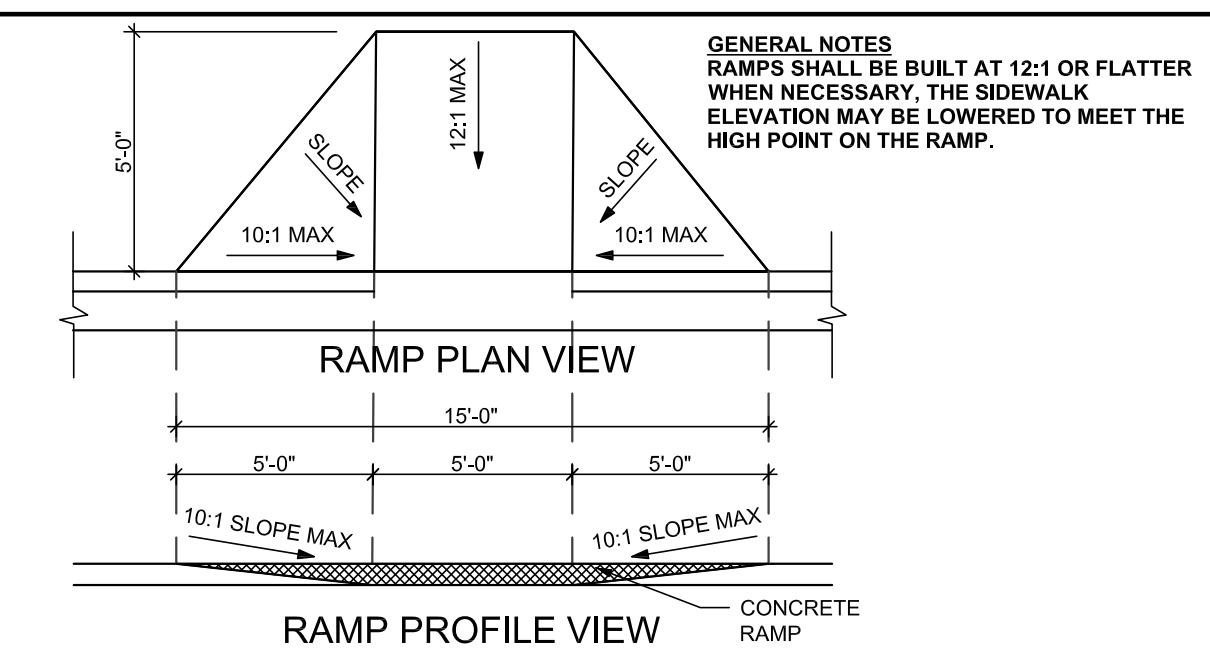
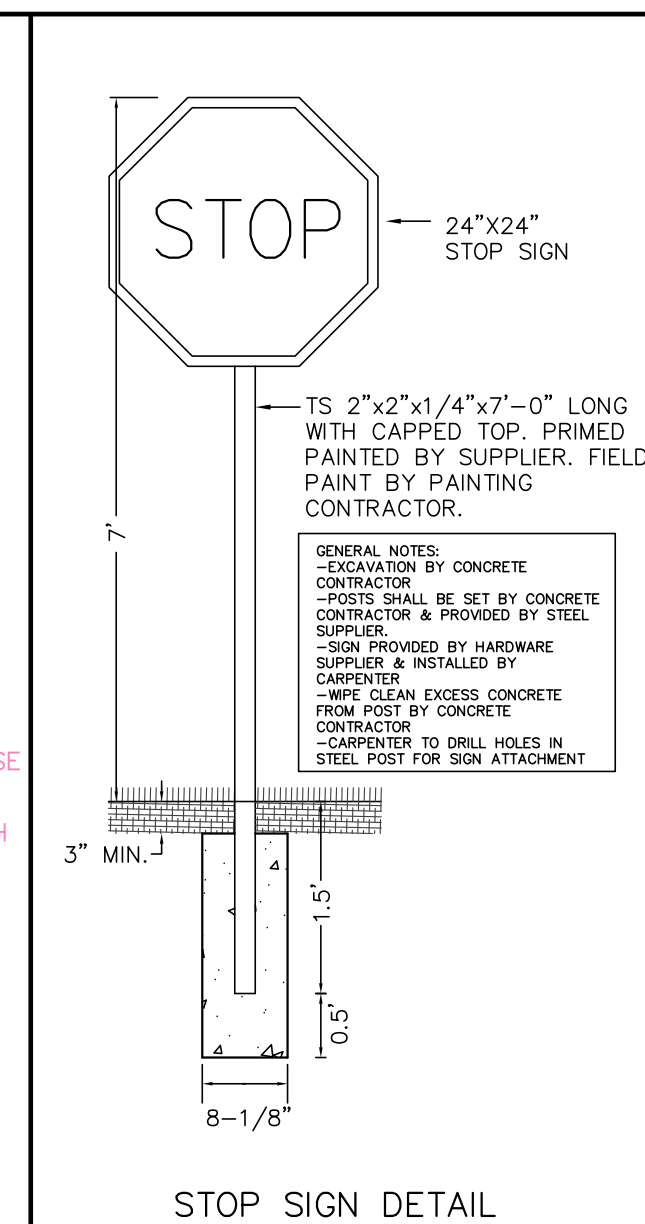
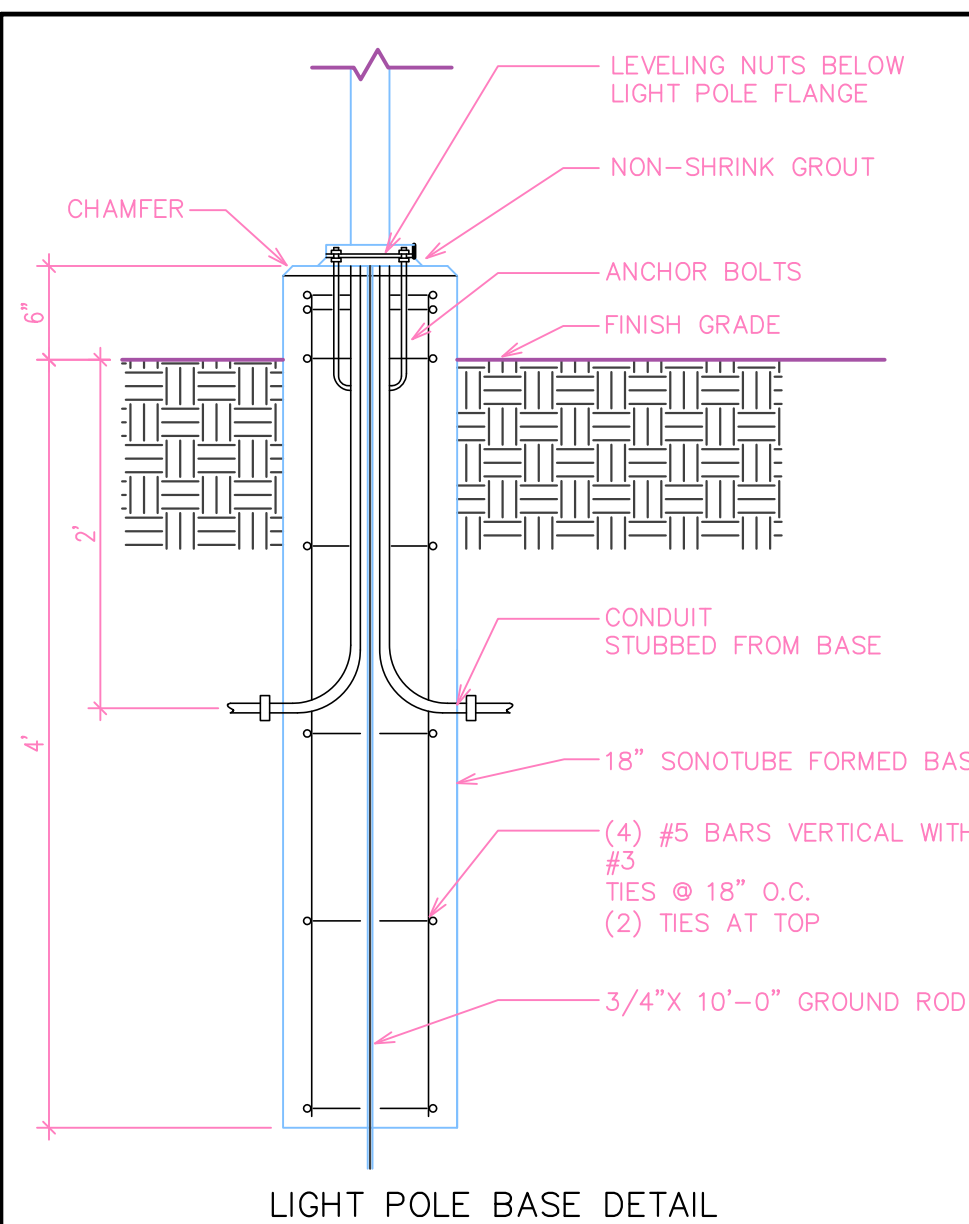
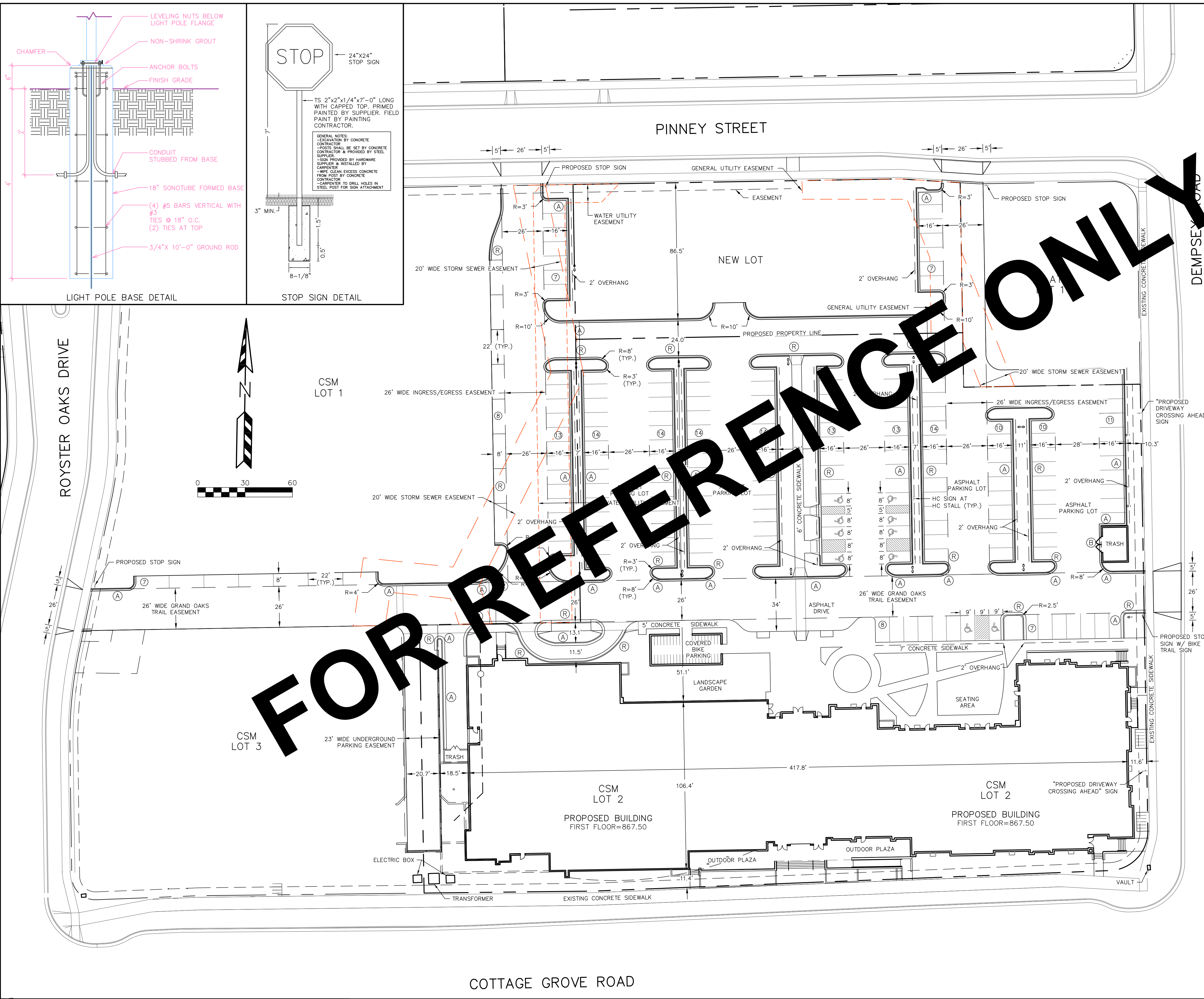
ROYSTER CORNERS DEVELOPMENT - LOT 2
 UTILITY AND FIRE LANE PLAN
 DATED: AUGUST 25, 2017

C-2.1

QUAM ENGINEERING, LLC
 Residential and Commercial Site Design Consultants
www.quamengineering.com
 4604 Sigelkow Road, Suite A - McFarland, Wisconsin 53558
 Phone (608) 838-7750; Fax (608) 838-7752



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CURB NOTES:

- LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH.
- EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE OF ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK.
- IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED 4" CRUSHED STONE.

REJECT CURB AND GUTTER (R)
ACCEPT CURB AND GUTTER (A)
RIBBON CURB (B)

PARKING LOT SITE INFORMATION BLOCK

Site Address: 516 Cottage Grove Road
Site acreage (total): 3.69
Number of building stories (above grade): 4
Building height: 20'
DSPS type of construction (new structures or additions): JA, Basement & First Floor, VA, 2nd - 4th
Total square footage of building: 191,504 SF (includ. basement)
Total square footage of garage: N/A
Use of property: Mixed Use
Gross square feet of office: N/A
Gross square feet of retail area: N/A
Number of employees in warehouse: N/A
Number of employees in production: N/A
Capacity of restaurant/place of assembly: N/A
Number of bicycle stalls shown: 52

Number of parking stalls:

Small Car	Shown
0	0
Large Car	236
Accessible	10
Total	236

Number of trees shown: (See Landscape Plan)

RESERVED PARKING
HANDICAP ACCESSIBLE SIGN DETAIL

ROYSER CORNERS DEVELOPMENT - LOT 2
SITE PLAN
DATED: AUGUST 25, 2017

C-2.2

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www.quamengineering.com
4604 Siggeikow Road, Suite A - McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752

DESIGN CRITERIA

- 1. CODES: INTERNATIONAL BUILDING CODE (IBC) 2015 AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14) AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ALLOWABLE STRENGTH DESIGN (ASD)(AISC 360-10) FOURTEENTH EDITION, 2010 AMERICAN WELDING SOCIETY D1.1
2. DESIGN LOADS: RISK CATEGORY II WIND - PARAMETERS BASIC WIND SPEED EXPOSURE CLASS 115 MPH C WIND - ELEMENTS AND COMPONENTS PER APPLICABLE BUILDING CODE LIVE LOADS PUBLIC SPACE 100 PSF UNREDUCIBLE
3. NET ALLOWABLE SOIL BEARING PRESSURES PIER FOOTINGS 2500 PSF
4. MINIMUM FROST PROTECTION DEPTH FROM ADJACENT GRADE: EXTERIOR FOOTINGS IN UNHEATED AREA -5'-0"
5. SPECIFIED 28-DAY CONCRETE COMPRESSIVE STRENGTHS (fc) PIER FOOTINGS 4000 PSI SLABS ON GRADE 4000 PSI TYPICAL - UNLESS NOTED OTHERWISE 4000 PSI
6. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS: DEFORMED BARS ASTM A615, GRADE 60 Fy = 60 KSI WELDED WIRE REINFORCING ASTM A185 Fy = 65 KSI EPOXY-COATED REINFORCING BARS ASTM A775 Fy = 60 KSI
7. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS: WIDE FLANGE SECTIONS ASTM A992 Fy = 50 KSI OTHER ROLLED SECTIONS ASTM A36 Fy = 36 KSI SQUARE AND RECTANGULAR HSS ASTM A500, GR B Fy = 46 KSI CAP AND BASE PLATES ASTM A36 Fy = 36 KSI CONNECTION MATERIAL ASTM A36 Fy = 36 KSI STIFFENER PLATES ASTM A36 Fy = 36 KSI ANCHOR RODS ASTM F1554, GR 36 Fy = 36 KSI HIGH STRENGTH BOLTS ASTM F3125, GRADE A325 Fy = 36 KSI HEAVY HEX NUTS ASTM A563 120 KSI WASHERS ASTM F436 ELECTRODES FOR ARC WELDING AWS 5.1, E70XX

GENERAL NOTES

- 1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING, OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
2. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTERLACE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO THAT IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
3. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS NOTED OTHERWISE, THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION.
4. DETAILS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
5. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS, OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPES, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
6. DIMENSIONS, NOTES, AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
7. WHERE NEW CONSTRUCTION INTERFACES WITH EXISTING CONDITIONS, FIELD VERIFY EXISTING DIMENSIONS, MEMBER SIZES AND ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
8. REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, UNLESS NOTED OTHERWISE. B. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC. C. FLOOR, WALL AND ROOF FINISHES. D. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. E. FIRE PROTECTION REQUIREMENTS.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN. B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES. D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES OR CURBS AND ANCHOR BOLTS FOR MOTOR MOUNTS.
10. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPES OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS. DISRUPTION OF NORMAL ACTIVITIES IN THE WORK AREA SHALL BE KEPT TO A MINIMUM.
11. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, AND OTHERS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED, INITIALED AND DATED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR.
12. SHOP DRAWINGS PREPARED BY THE SUBCONTRACTORS, SUPPLIERS, AND OTHERS SHALL BE REVIEWED BY THE ARCHITECT ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. REVIEW BY THE ARCHITECT SHALL NOT BEGIN WITHOUT THE PRIOR COORDINATION AND REVIEW BY THE GENERAL CONTRACTOR. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT. NOTATIONS MADE BY THE ARCHITECT ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
13. OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES RESULTING FROM CHOOSING AN OPTION AND SHALL COORDINATE ALL DETAILS. THE COST OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION SHALL BE BORNE BY THE CONTRACTOR.
14. THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS OR OMISSIONS BY THE CONTRACTOR IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
15. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN.
16. ELEVATIONS ARE BASED ON THE EXISTING FIRST FLOOR ELEVATION OF (+ 0' - 0").
17. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.

FOUNDATION/SLAB-ON-GRADE

- 1. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES IN GRADE BEAMS, FOUNDATION WALLS AND PIERS.
2. FOUNDATION DESIGN BASED ON PRESUMED SOIL BEARING PRESSURES.
3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OF SHORING AND/OR SHEETING.
4. PROVIDE SAW CUT CONTROL JOINTS IN ALL SLABS-ON-GRADE. LOCATE JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW. UNLESS NOTED OTHERWISE, CONTROL JOINTS SHALL BE CONTINUOUS, NOT STAGGERED OR OFFSET. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5 TO 1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS FORMED IN SLAB ON GRADE.

Table with 2 columns: SLAB ON GRADE THICKNESS, MAX JOINT SPACING. Rows include 4", 5", 6", 8", 10", 12" thicknesses and corresponding joint spacing from 12'-0" to 36'-0".

REINFORCING STEEL

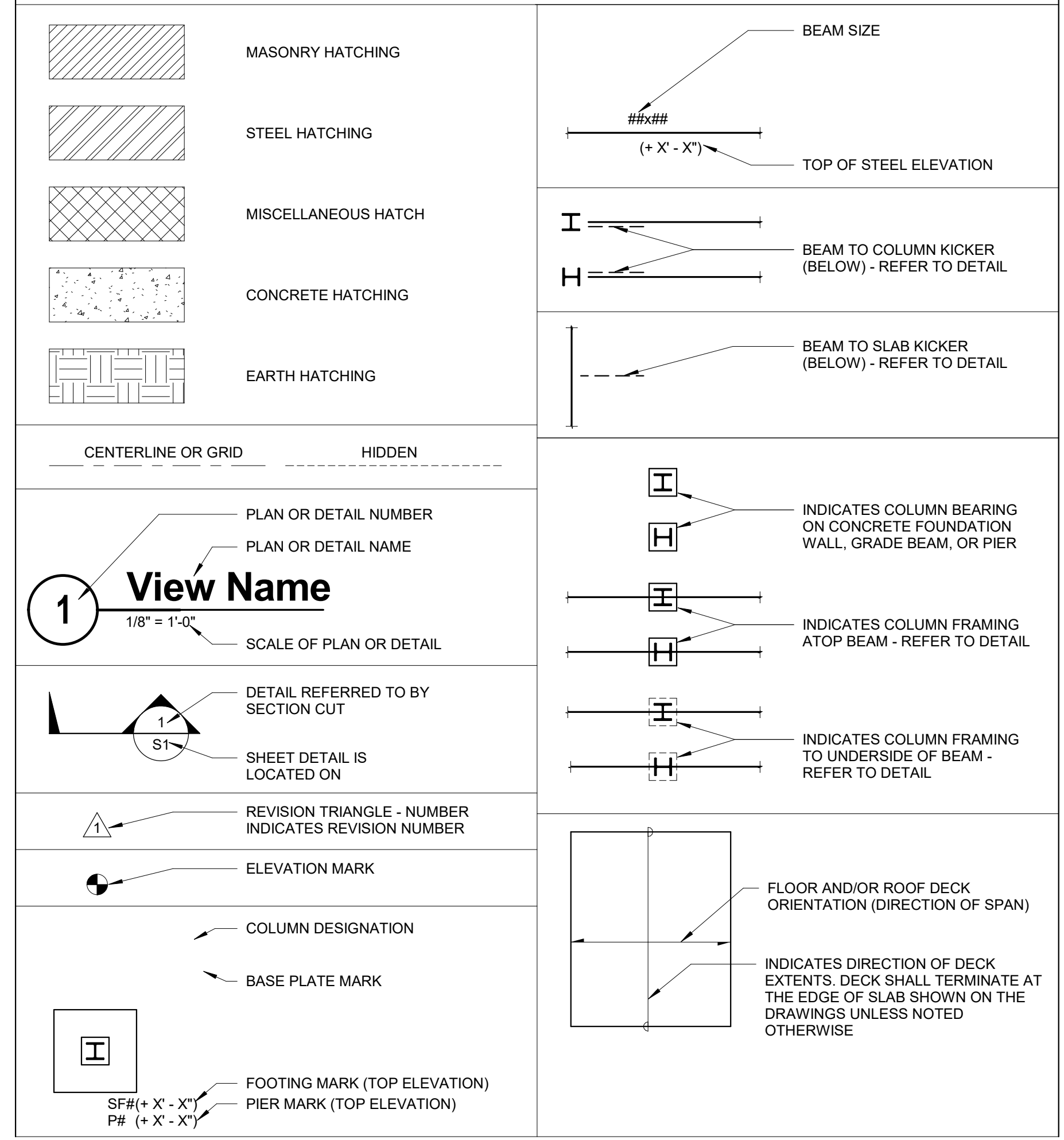
- 1. FOR CAST-IN-PLACE CONCRETE THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES CONCRETE EXPOSED TO EARTH OR WEATHER NO. 6 BARS OR LARGER 2 INCHES NO. 5 BARS OR SMALLER 1 1/2 INCHES
SLABS, WALLS, JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH NO. 14 AND NO. 18 BARS 1 1/2 INCHES NO. 11 BARS OR SMALLER 3/4 INCHES
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH 1 1/2 INCHES
2. DIMENSIONS OF CONCRETE COVER FOR REINFORCEMENT INDICATED ON DRAWINGS ARE TO OUTERMOST REINFORCING BARS; FOR BEAMS OR COLUMNS WITH STIRRUPS OR TIES, CLEAR COVER INDICATED IS TO STIRRUPS OR TIES.
3. BAR SPLICES: SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS:

Table for 3000 PSI CONCRETE and 4000 PSI CONCRETE showing bar sizes (#3 to #11) and other dimensions for TOP and OTHER orientations.

- 4. LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.
5. SUBMIT SHOP DRAWINGS SHOWING REINFORCING STEEL QUANTITIES AND PLACEMENT. REINFORCING STEEL DESIGNATIONS ON SHOP DRAWINGS SHALL BE INCH-POUND SIZES.
6. PROVIDE ADEQUATE TIES FOR ALL REINFORCING BARS IN CONCRETE SLABS AND PIERS. REINFORCING BARS TO BE HELD AT CORRECT DISTANCE FROM FORMS BY ADEQUATE CONCRETE BLOCKS, STEEL CHAIRS OR TIES. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION WITH TIES OR WELDS PRIOR TO PLACING CONCRETE.
7. UNLESS NOTED OTHERWISE, SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE.
8. SUPPORTS FOR COATED REINFORCEMENT SHALL HAVE CLASS 1 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE.
9. DOWELS BETWEEN PIERS AND SLAB SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS NOTED OTHERWISE.
10. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.

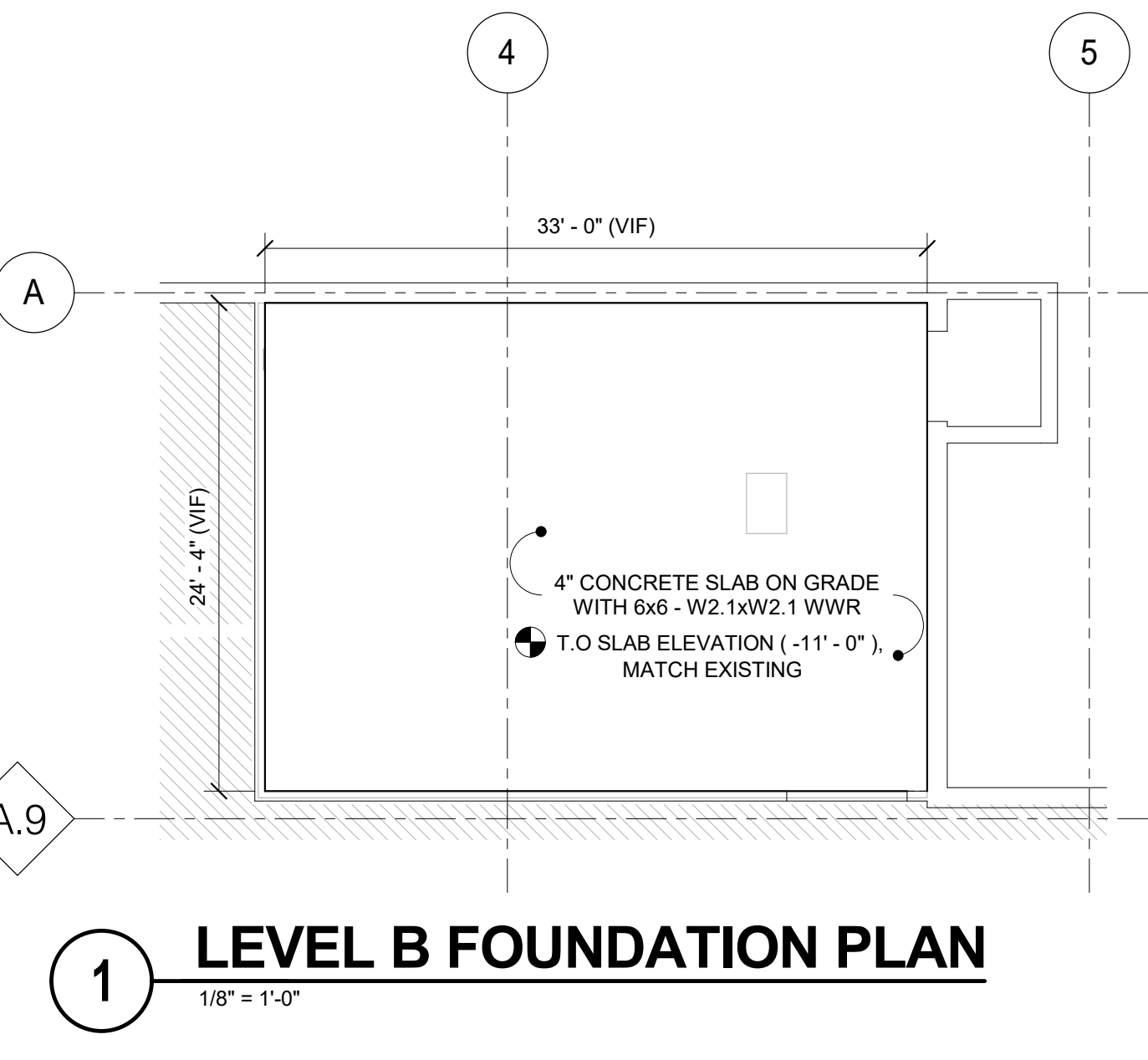
Table for 3000 PSI CONCRETE and 4000 PSI CONCRETE showing bar sizes (#3 to #11) and other dimensions for TOP and OTHER orientations.

STRUCTURAL DRAWING SYMBOLS



STRUCTURAL ABBREVIATIONS LIST

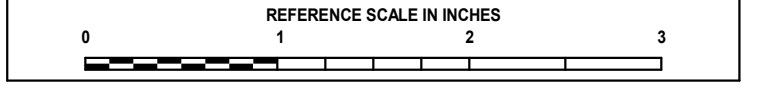
Table listing structural abbreviations such as # (NUMBER), @ (DIAMETER), AHU (AIR-HANDLING UNIT), ARCH (ARCHITECT), B.O. (BOTTOM OF BEAM), BM (BEAM), BP (BASE PLATE), BRG (BRIDGE), CFSF (COLD FORM STEEL FRAMING), CJ (CONTROL JOINT), CL (CONCRETE), CMU (CONCRETE MASONRY UNIT), CONC (CONCRETE), CONST (CONSTRUCTION), CONT (CONTINUOUS), D (DEPTH), DBL (DOUBLE), DEG (DEGREE), DIM (DIMENSION), DL (DEAD LOAD), DTL (DETAIL), DWG (DRAWING), EA (EACH), EF (EACH FACE), EJ (EXPANSION JOINT), EL (ELEVATION), ELEC (ELECTRICAL), EMBED (EMBEDDED), EOD (EDGE OF DECK), EOS (EDGE OF SLAB), EQ (EQUILIBRIUM), EQUIP (EQUIPMENT), EW (EACH WAY), EXIST, (E) (EXISTING), EXP (EXPANSION), EXT (EXTERIOR), Fc (CONCRETE COMPRESSIVE STRENGTH), FDN (FOUNDATION), FIN (FINISHED), FL (FLOOR), FT (FOOT), FTG (FOOTING), FY (YIELD STRESS), GA (GAGE OR GAUGE), GALV (GALVANIZED), GB (GRADE BEAM), GC (GENERAL CONTRACTOR), GYP (GYPSUM), HDS (HOT DIPPED GALVANIZED), HORIZ (HORIZONTAL), HVAC (HEATING, VENTILATION, AIR CONDITIONING), HWS (HEADED, WELDED STUD), IN (INCH), INT (INTERIOR), JST (JOIST), JT (JOINT), K, KIP (KILOPOUND (1,000 POUNDS)), KO (KNOCK-OUT), KSF (KIPS PER SQUARE FOOT), L (LENGTH), LB (POUND), LF (LINEAR FOOT), LL (LIVE LOAD), LLH (LONG LEG HORIZONTAL), LLV (LONG LEG VERTICAL), LSH (LONG SIDE HORIZONTAL), LSV (LONG SIDE VERTICAL), LONG (LONGITUDINAL), MECH (MECHANICAL/ELECTRICAL), MEX (MAXIMUM), MECH (MECHANICAL), MEZZ (MEZZANINE), MIN (MINIMUM), MISC (MISCELLANEOUS), MK (MARK), N (NORTH), N (LENGTH (AS PLATES)), NIC (NOT IN CONTRACT), NO (NUMBER), NTS (NOT TO SCALE), OC (ON CENTER), OPNG (OPENING), OPP (OPPOSITE), PAF (POWER ACTUATED FASTENER), PC (PRECAST), PCF (POUNDS PER CUBIC FOOT), PL (PLATE), PSF (POUNDS PER SQUARE FOOT), PSI (POUNDS PER SQUARE INCH), PVC (POLYVINYL CHLORIDE), RAD (RADIUS), RD (ROOF DRAIN), REIN (REINFORCING), -MENT, -ED (REQUIRED), REF (REFERENCE, REFER TO), RTU (ROOF-TOP UNIT), TO (TO WITH CLASS A FAYING SURFACE), SC (SCHEDULE), SIM (SIMILAR), SL (SNOW LOAD), SP (SPACE(S)), SPEC (SPECIFICATION(S)), SPEC (SPECIFIED), SQ (SQUARE), STD (STANDARD), STIF (STIFFENER), T.O. (TOP OF PRE-TENSIONED BOLT), TC (TEMPERATURE), TEMP (TEMPERATURE), TH (BEAM FLANGE THICKNESS), TRNS (TRANSVERSE), TYP (TYPICAL), UNO (UNLESS NOTED OTHERWISE), VERT (VERTICAL), VIF (VERIFY IN FIELD), VIF (VERIFY WITH ARCHITECTURAL DRAWINGS), WP (WORKING POINT), WT (WEIGHT), WWR (WELDED WIRE REINFORCING), YD (YARD)



LEVEL B FOUNDATION PLAN 1/8" = 1'-0"

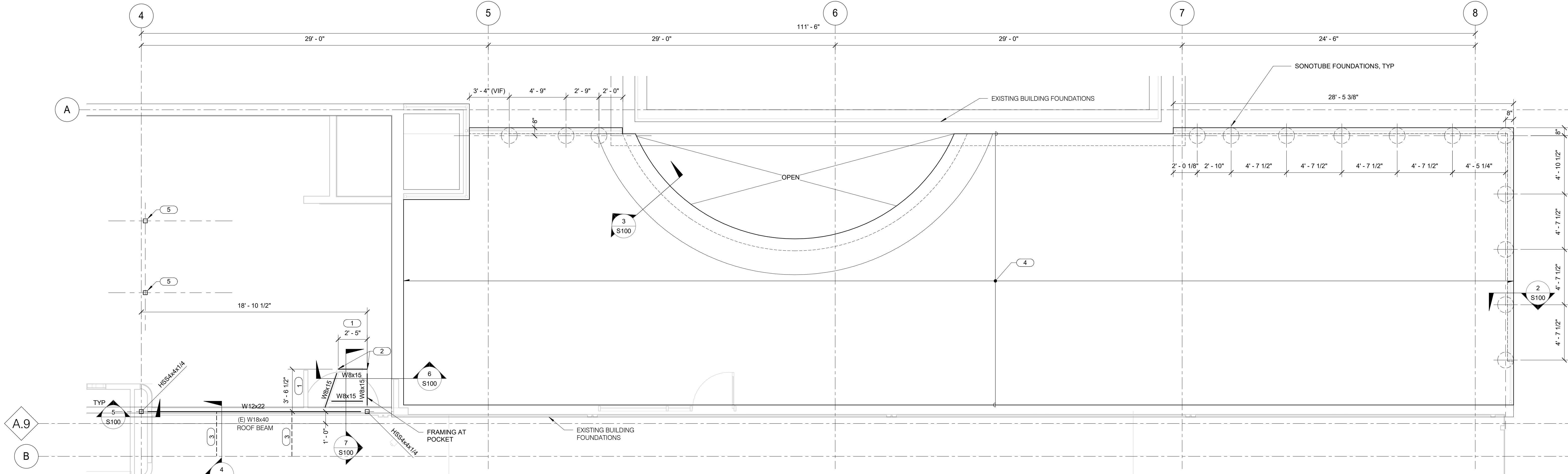


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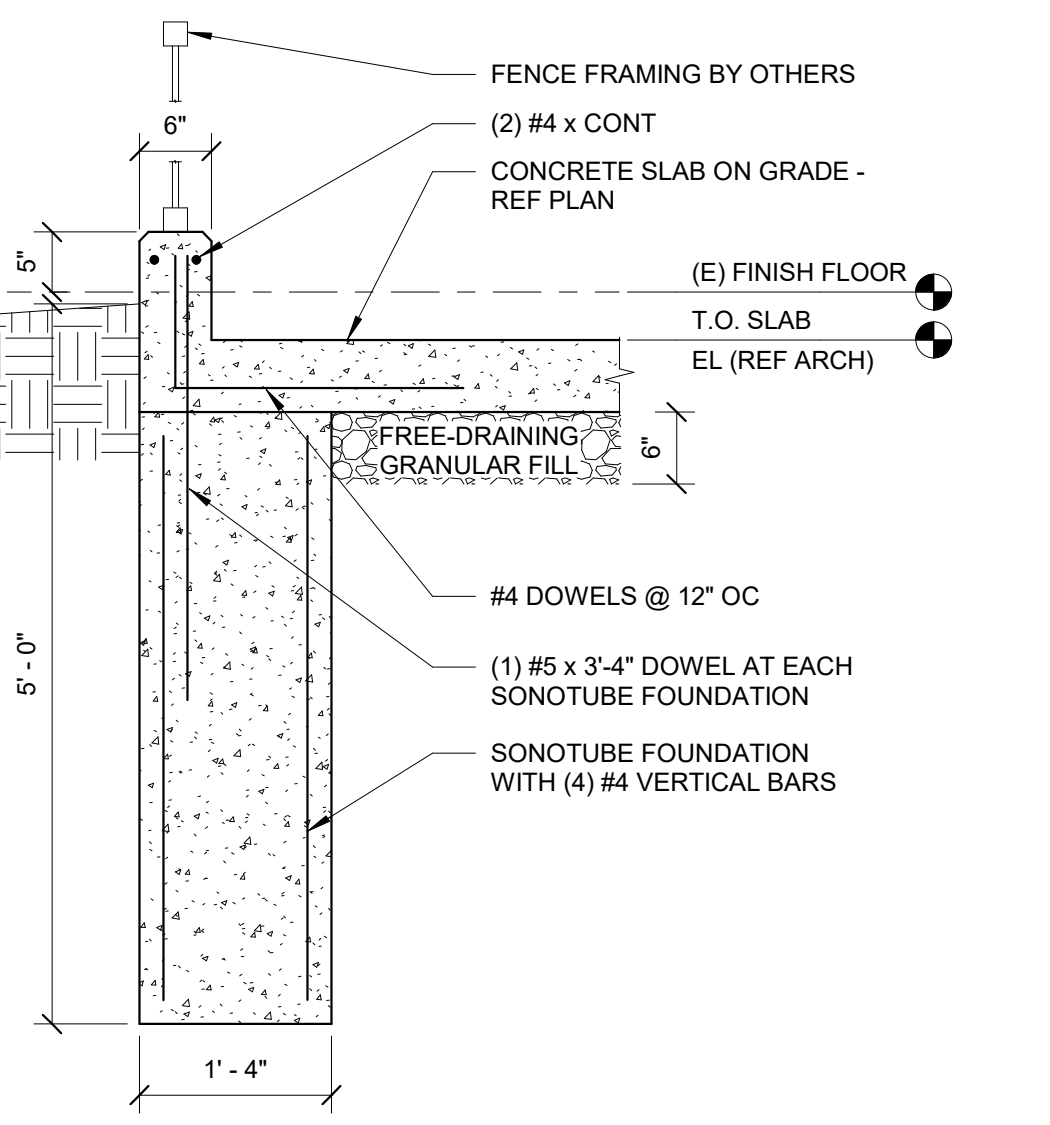


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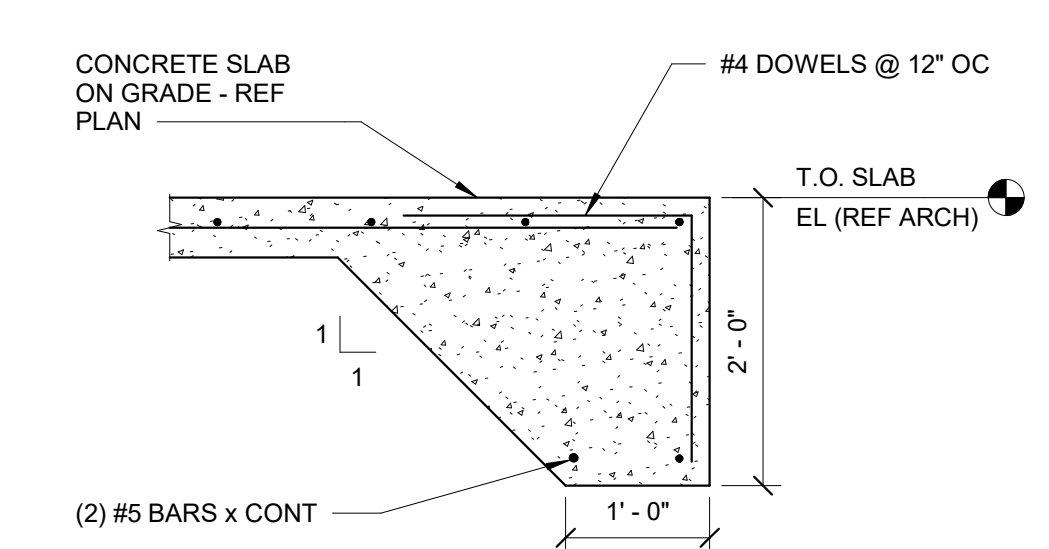


1 FOUNDATION AND FRAMING LAYOUT

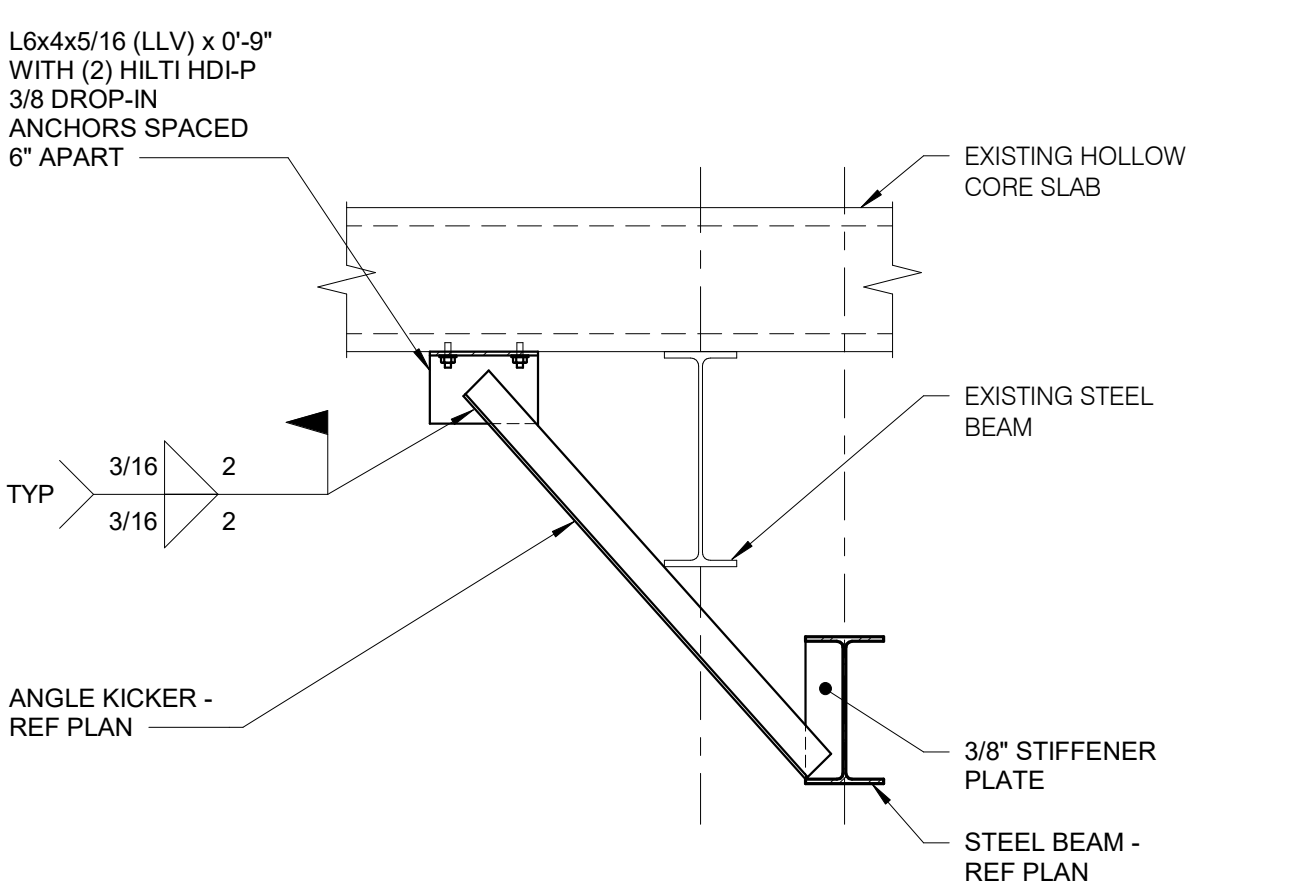
- 1/4" = 1'-0"
NOTES:
1. REFER TO 8/S100 FOR TYPICAL SHEAR CONNECTION.
2. COORDINATE STEEL ELEVATIONS WITH OPERABLE WALL SUPPLIER.
- KEYNOTES:
1. COORDINATE FRAMING ELEVATION AND DIMENSIONS WITH OPERABLE WALL SUPPLIER AND TRACK LAYOUT.
2. L3x3x1/4 HANGER.
3. L3x3x1/4 KICKER AT THIRD POINTS ALONG BEAM.
4. 5" CONCRETE SLAB ON GRADE WITH EPOXY COATED REBAR #4 @ 12" OC, EACHWAY.
5. PROVIDE CEILING ANCHOR POINT PER 9/S100. COORDINATE LOCATION WITH ARCHITECT AND OWNER.



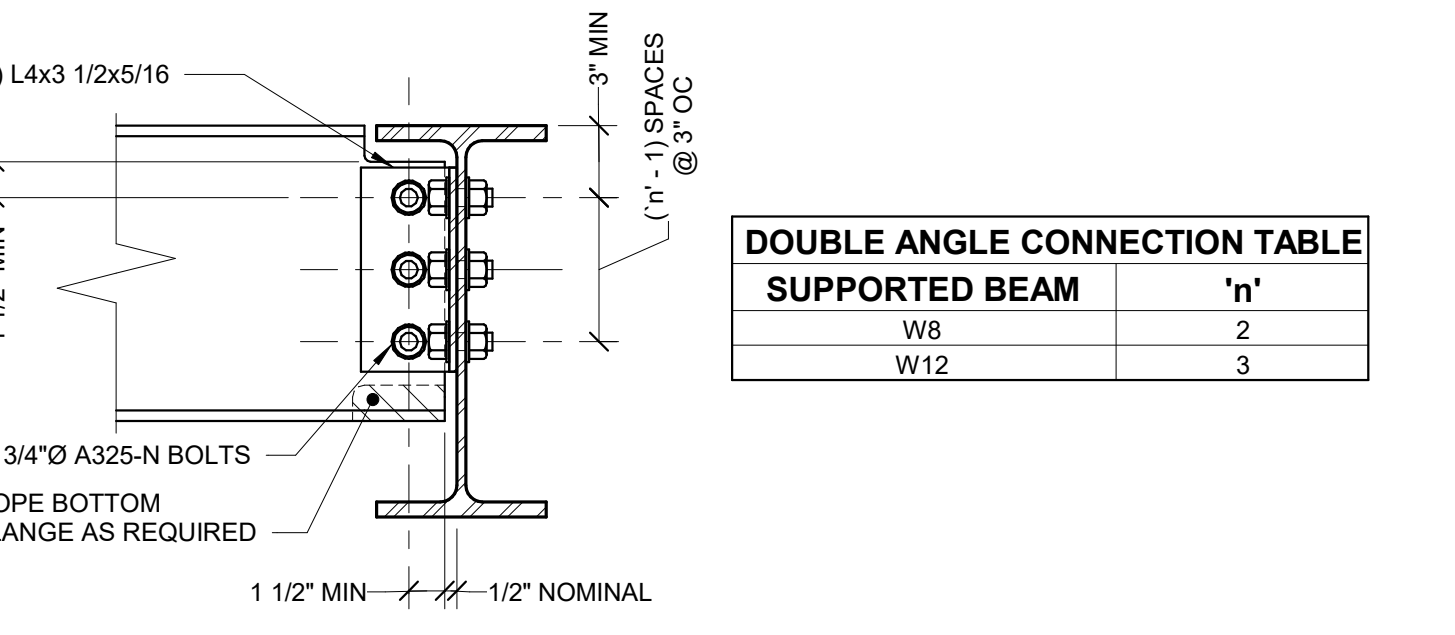
2 FOUNDATION DETAIL



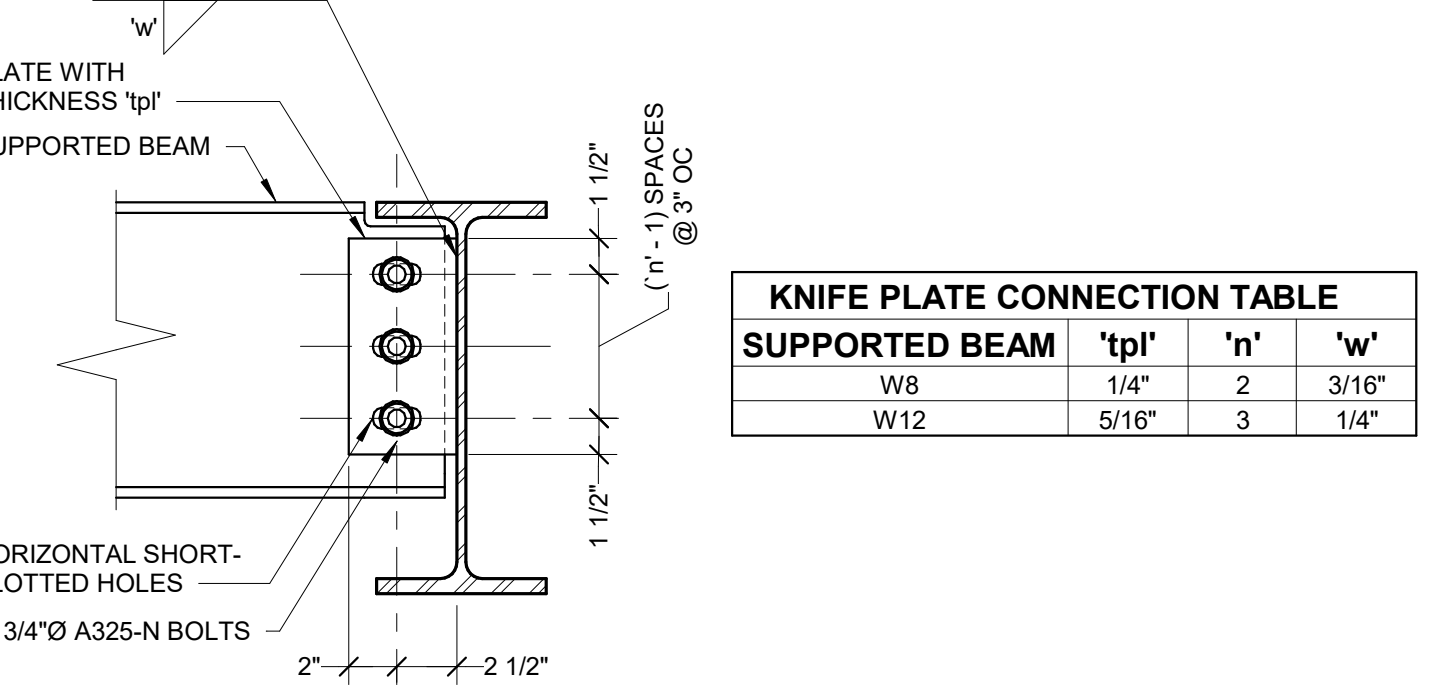
3 THICKENED SLAB EDGE



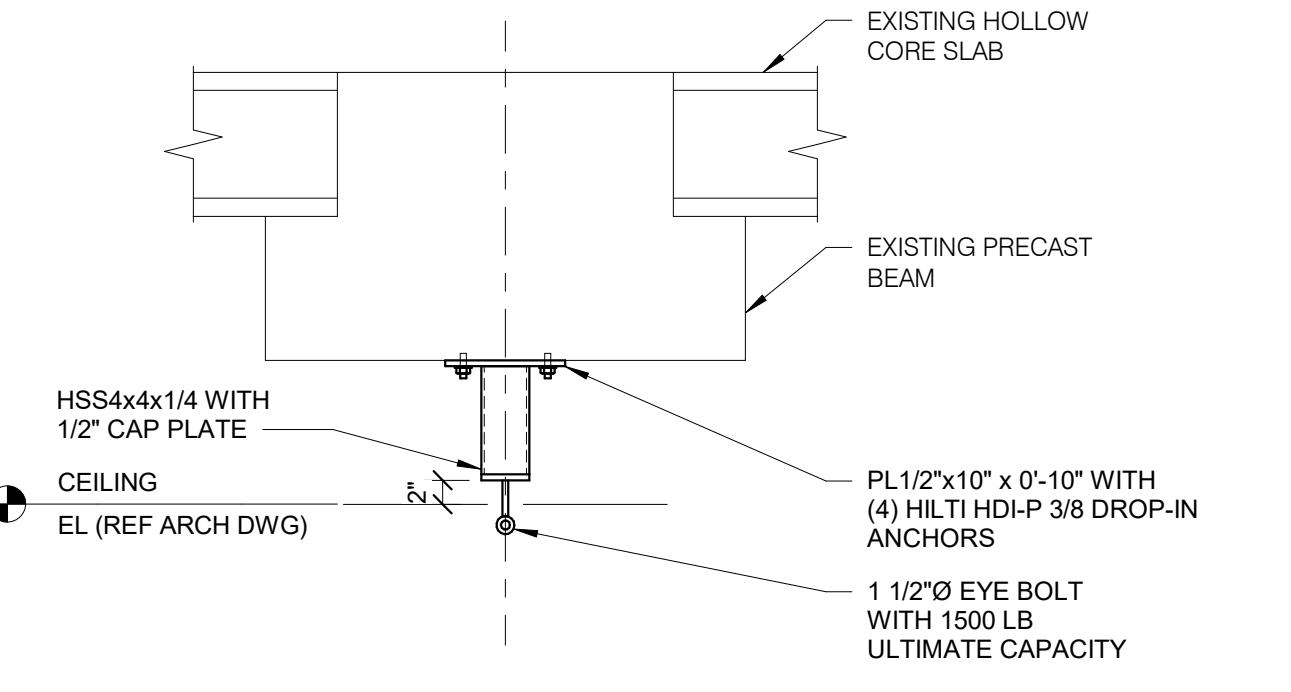
4 KICKER FRAMING DETAIL



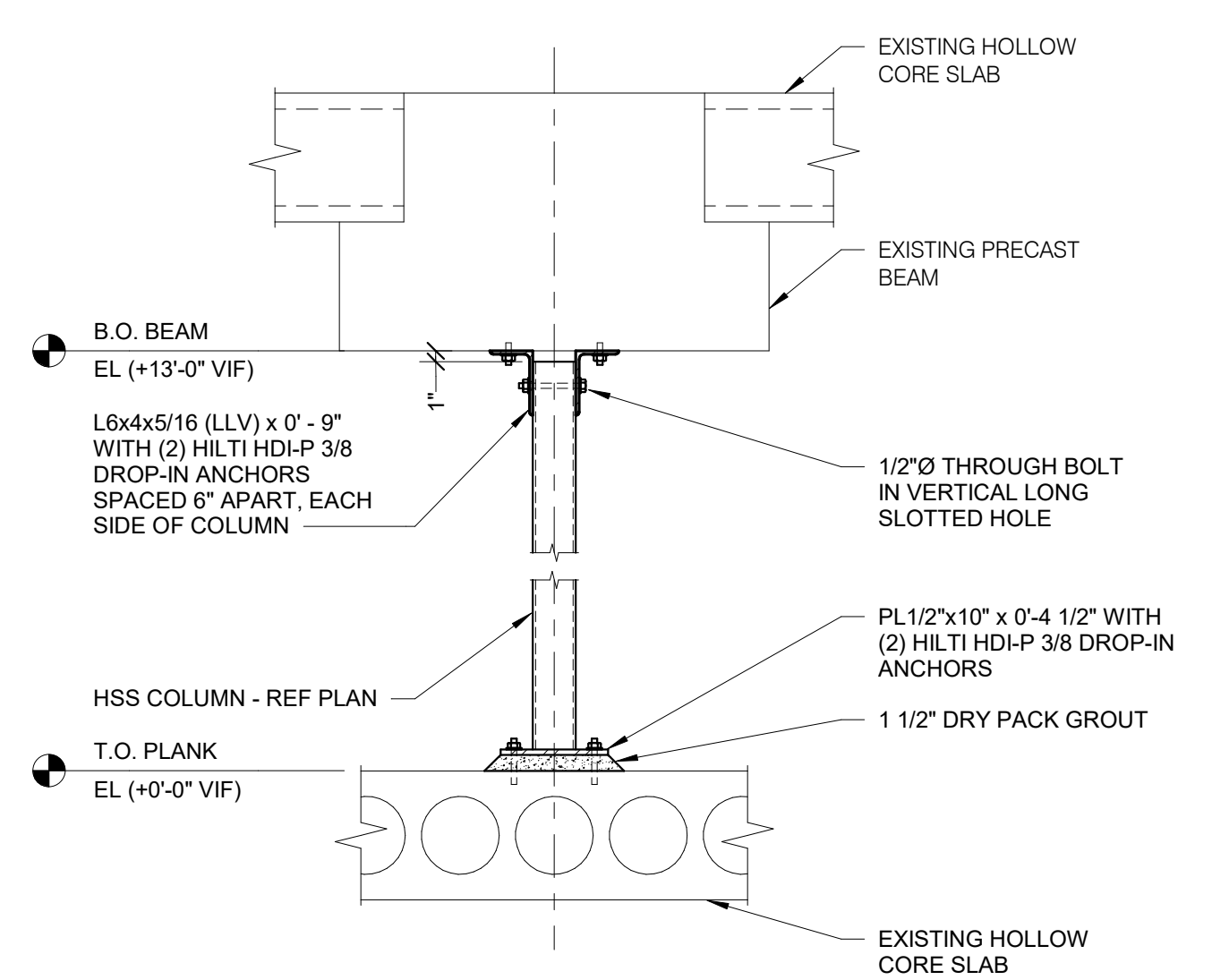
DOUBLE ANGLE CONNECTION TABLE			
SUPPORTED BEAM	'h'	'n'	'w'
WB	1/4"	2	3/16"
W12	5/16"	3	1/4"



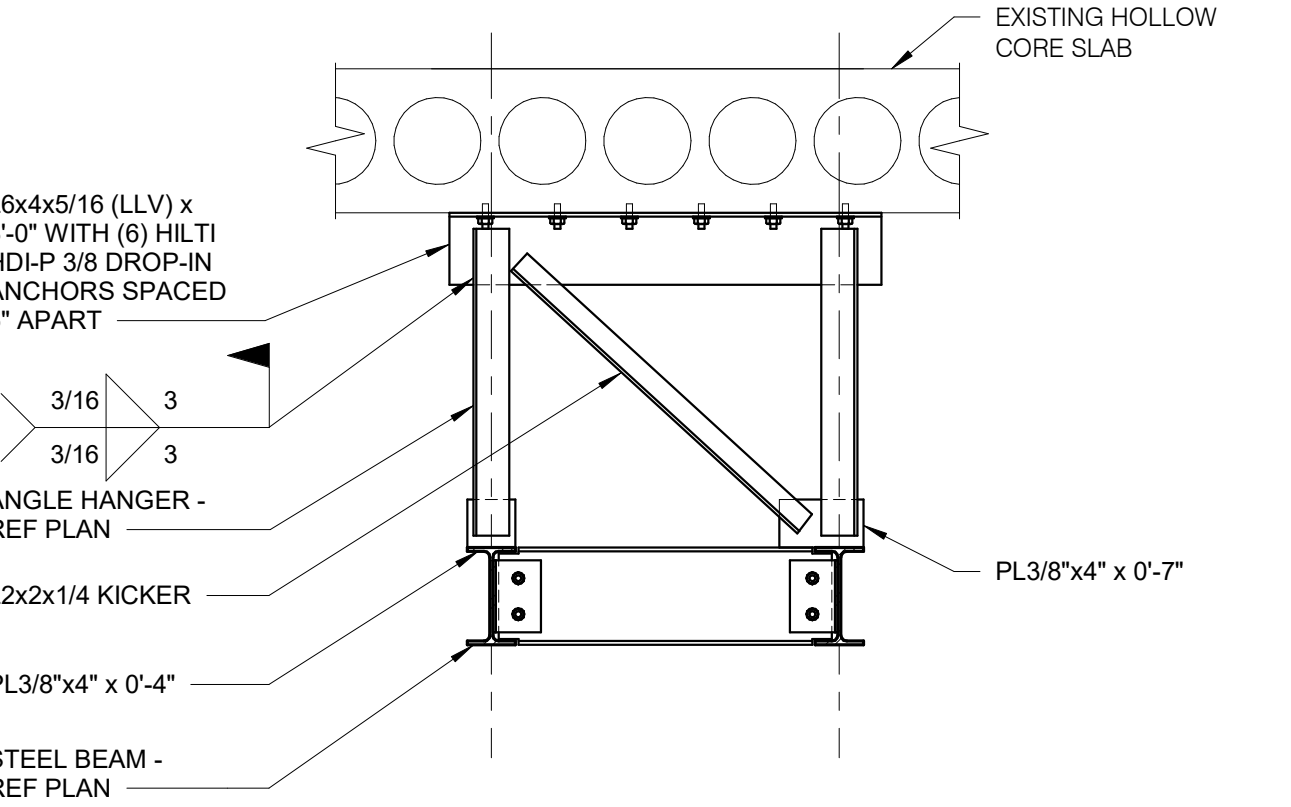
KNIFE PLATE CONNECTION TABLE			
SUPPORTED BEAM	'tpl'	'h'	'w'
WB	1/4"	2	3/16"
W12	5/16"	3	1/4"



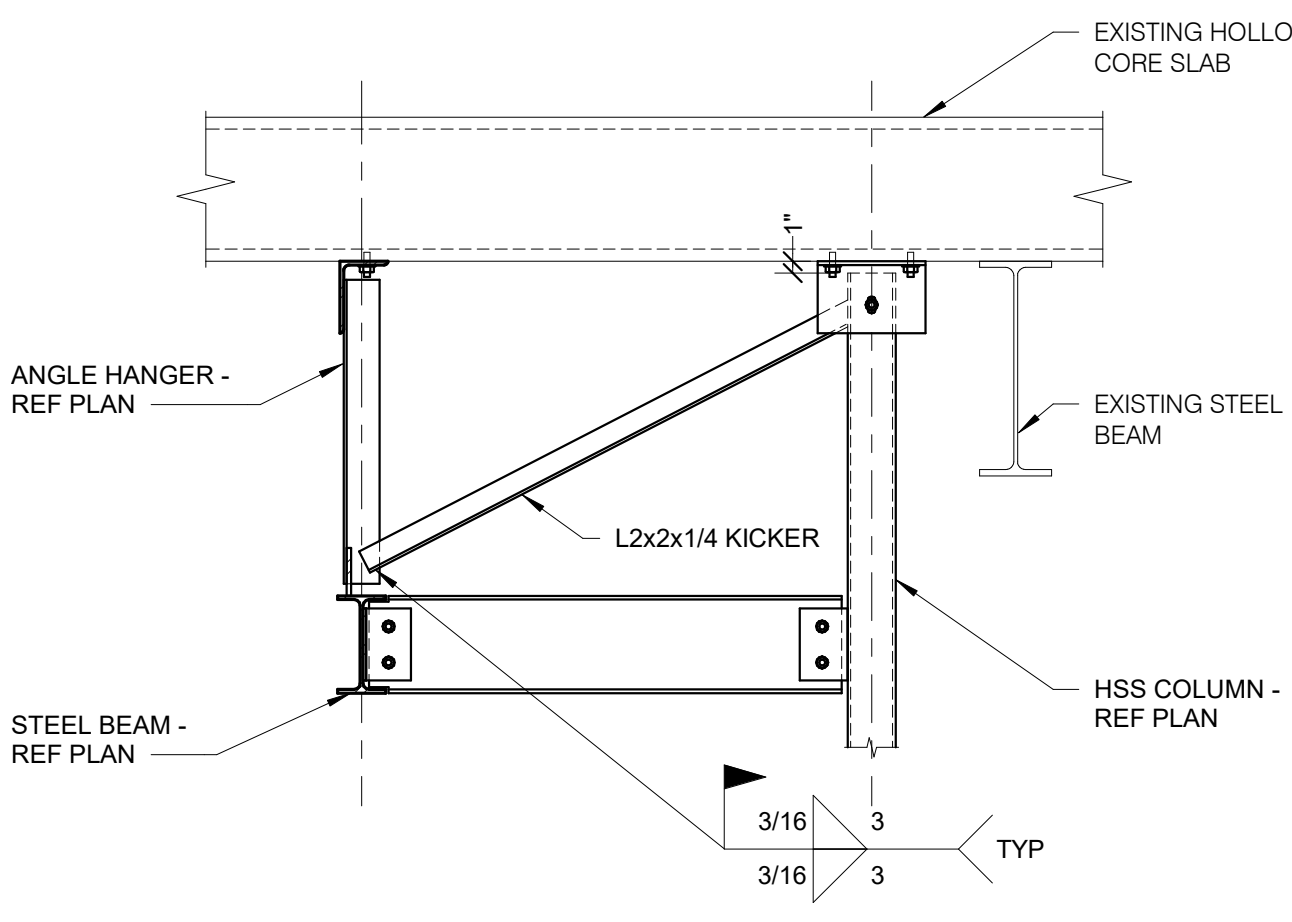
9 ANCHOR FRAMING DETAIL



5 COLUMN FRAMING DETAIL



6 FRAMING DETAIL



7 FRAMING DETAIL

8 TYPICAL SHEAR CONNECTION

- 1/2" = 1'-0"
NOTES:
1. BOTH DOUBLE ANGLE AND KNIFE PLATE CONNECTION CONFIGURATIONS ARE ACCEPTABLE, UNLESS NOTED OTHERWISE. FABRICATOR AND DETAILER SHALL SELECT WHICH OPTION IS BEST SUITED FOR THEIR FABRICATION PROCESS AND THE ANTICIPATED ERECTION PROCEDURES.
2. DETAIL TO BE SIMILAR AT CONNECTIONS TO WIDE FLANGE OR HSS COLUMNS.
3. UNLESS NOTED OTHERWISE, PROVIDE SHEAR CONNECTIONS AS INDICATED BY THIS DETAIL.
4. DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.
5. WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISI ASD CONNECTION TABLES.

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Key Plan

Revision

Date

City Contract No.

7662

OPN Project No.

17609000

Sheet Issue Date

BID DOCUMENTS

11/30/2018

Sheet Name

FLOOR PLAN LOWER LEVEL

Sheet Number

A100

GENERAL NOTES

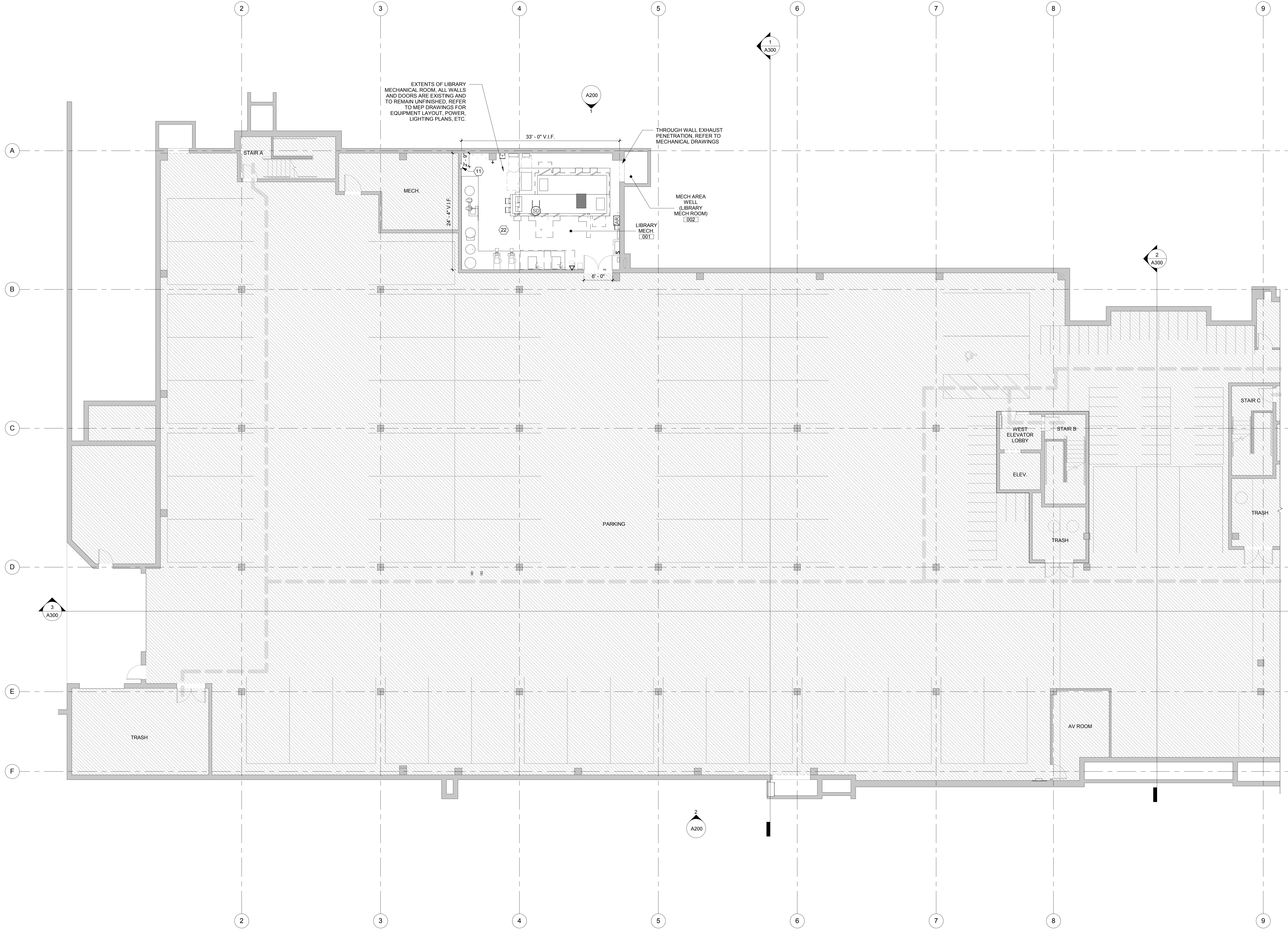
- DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS
- IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS
- ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
- REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL WALL TYPE LOCATIONS, DIMENSIONS, AND KEYNOTES
- PROVIDE CONCEALED BLOCKING AT ALL ACCESSORIES AND CASEWORK LOCATIONS IN METAL FRAMING WALL ASSEMBLIES. EXTEND BLOCKING A MINIMUM OF 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL ACCESSORY ITEMS
- ALL WALLS WITH SOUND ATTENUATION BLANKETS ARE TO HAVE ACOUSTICAL SEALANT AT TOP AND BOTTOM AND AT ALL WALL PENETRATIONS
- COORDINATE FLOOR DRILLING IN EXISTING FLOOR SLABS WITH EXISTING HOLLOWCORE SLAB AND CONCRETE BEAM LOCATIONS. DRILLING TO BE COORDINATED WITH DEVELOPER AND BUILDING ENGINEER
- ALL NEW INTERIOR WALLS TO BE TYPE (A,D,D) 6" METAL STUDS W/ SOUND BATT AND WALLS TO DECK UNLESS NOTED OTHERWISE.
- REFER TO FINISH PLANS AND SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
- REFER TO SHEET A002 FOR ALL INTERIOR GLAZING ELEVATIONS.
- ALL DOOR FRAMES TO BE LOCATED 4" FROM FINISH FACE OF WALL U.O.
- NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW
- FLOOR PLAN KEYNOTES TO BE USED ON FLOOR PLANS AND ENLARGED FLOOR PLANS.

DIAGONAL HATCHED AREAS NOT WITHIN SCOPE OF WORK.

BATT LINE DENOTES LOCATIONS OF ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT AT PERIMETER AND PENETRATIONS. REFER TO FLOOR PLANS FOR WALL TYPES.

FLOOR PLAN KEYNOTES

#	NOTE
1	RFID GATE OFCI, CORE DRILL THROUGH STRUCTURE FOR POWER AND DATA. REFER TO MEP DRAWINGS.
2	FUR OUT AROUND EXIST. COLUMN AND PIPING AS INDICATED. SHALLOW BACK-BOXES REQUIRED. PT-1
3	PROVIDE FRAMING AND GYP BOARD BETWEEN COLUMN AND WALL. PT-1
4	FILL ALL EXTERIOR WALL CAVITIES W/ 4" MIN. CONTINUOUS SPRAY FOAM INSULATION (MIN R-22) BELOW RAISED ACCESS FLOORING AND UP ONTO BOTTOM OF STRUCTURE ABOVE INCLUDING ABOVE AND BELOW WINDOW OPENINGS.
5	QUARTZ WINDOW SILL, QZ-1. REFER TO DETAIL 1/A310.
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	SOLID WOOD WINDOW HEAD, JAMB, AND SILL. REFER TO DETAIL 3/A310.
8	DIGITAL ROOM SCHEDULE. REFER TO TECH. DRAWINGS
9	WALL MOUNTED MONITOR. REFER TO TECH DRAWINGS
10	HEAVY DUTY ADJUSTABLE SHELVING. REFER TO ELEVATIONS AND DETAIL 8/A500
11	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
12	SEMI-RECESSED MOUNTED FIRE EXTINGUISHER CABINET
13	WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR MACHINE AND CABINET
14	BUILT-IN WOOD (WD-1) DISPLAY
15	EXTERIOR YARD DRINKING FOUNTAIN. REFER TO PLUMBING DRAWINGS
16	EXTERIOR YARD SPICKET. REFER TO PLUMBING DRAWINGS
17	5'-0" L TRENCH DRAIN. SLOPE FLOOR TILE TO DRAIN. ALIGN WITH FLOOR TILE GROUT LINES AS SHOWN ON FINISH FLOOR PLAN. REFER TO PLUMBING DRAWINGS.
18	C-TOP GROMMET. FIELD LOCATE AND DRILL PER ARCHITECT/OWNER APPROVAL. SEE SPEC.
19	ADA DOOR ACTUATOR
20	CONTINUOUS WATER PROOFING MEMBRANE TO EXTEND FROM UNDER FLOOR TILE UP WALL TO T.O. WALL TILE. REFER TO DETAIL 1/A311 & 2/A311
21	RECESSED CEILING TRACK (ABOVE) FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS.
22	CONCRETE FLOOR SLAB. REFER TO STRUCTURAL COORDINATE INSTALLATION W/ DEVELOPER



LEVEL B FLOOR PLAN
1/8" = 1'-0"



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FLOOR PLAN LEVEL 1

Sheet Number

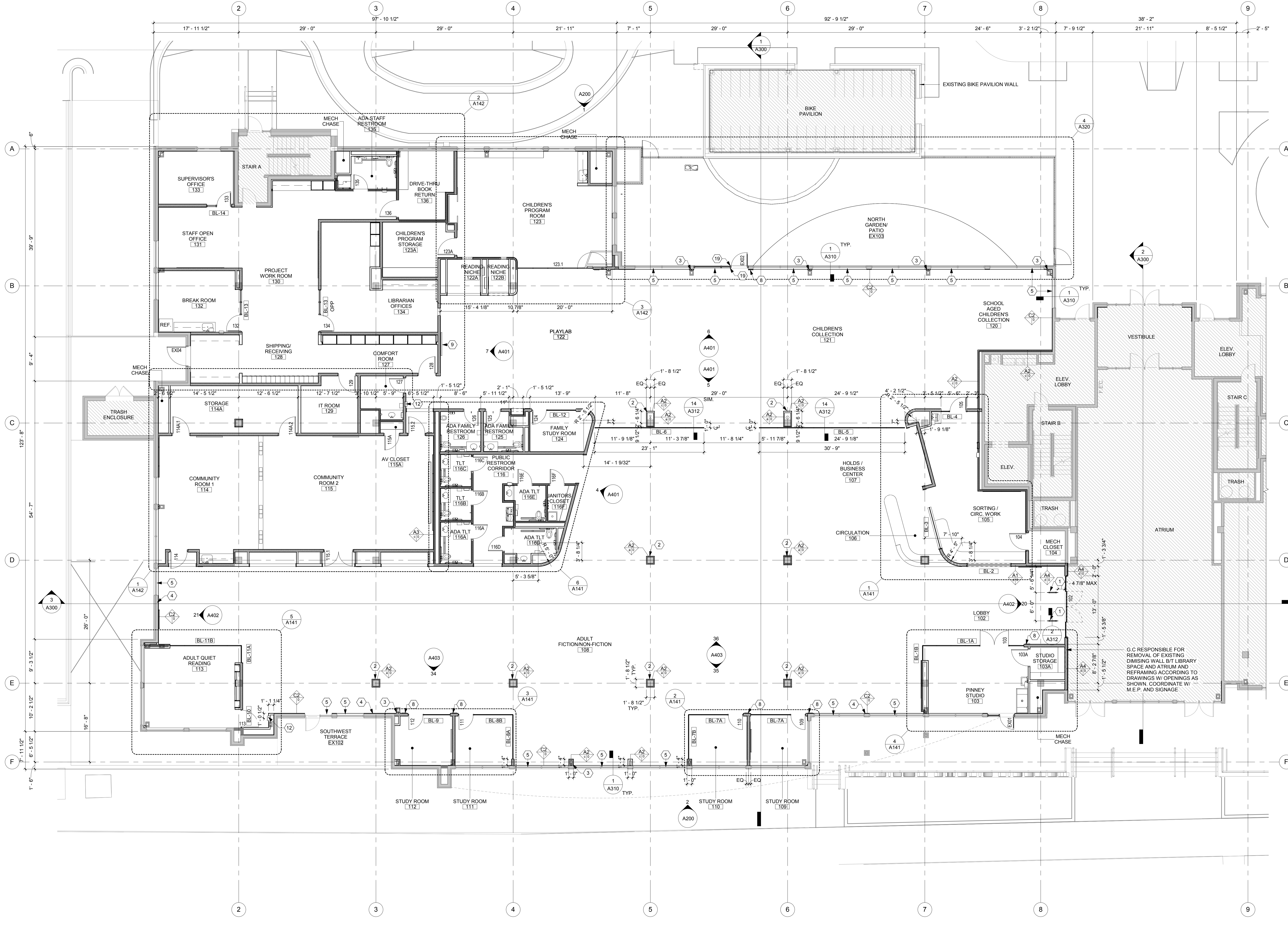
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10. REFER TO FINISH PLANS AND SCHEDULE FOR ADDITIONAL FINISH INFORMATION
11. REFER TO SHEET A402 FOR ALL INTERIOR GLAZING ELEVATIONS
12. ALL DOOR FRAMES TO BE LOCATED 4" FROM FINISH FACE OF WALL UNLESS NOTED OTHERWISE
13. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW
14. FLOOR PLAN KEYNOTES TO BE USED ON FLOOR PLANS AND ENLARGED FLOOR PLANS

FLOOR PLAN KEYNOTES

#	NOTE
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3	PROVIDE FRAMING AND GYP BOARD BETWEEN COLUMN AND WALL. PT-1
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6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	SOLID WOOD WINDOW HEAD, JAMB, AND SILL. REFER TO DETAIL 3/A310.
8	DIGITAL ROOM SCHEDULE. REFER TO TECH. DRAWINGS
9	WALL MOUNTED MONITOR. REFER TO TECH DRAWINGS
10	HEAVY DUTY ADJUSTABLE SHELVING. REFER TO ELEVATIONS AND DETAIL 8/A500
11	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
12	SEMI-RECESSED MOUNTED FIRE EXTINGUISHER CABINET
13	WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR MACHINE AND CABINET
14	BUILT-IN WOOD (WD-1) DISPLAY
15	EXTERIOR YARD DRINKING FOUNTAIN. REFER TO PLUMBING DRAWINGS
16	EXTERIOR YARD SPICKET. REFER TO PLUMBING DRAWINGS
17	5'-0" TRENCH DRAIN. SLOPE FLOOR TILE TO DRAIN. ALIGN WITH FLOOR TILE GROUT LINES AS SHOWN ON FINISH FLOOR PLAN. REFER TO PLUMBING DRAWINGS.
18	C-TOP GROMMET. FIELD LOCATE AND DRILL PER ARCHITECT/OWNER APPROVAL. SEE SPEC.
19	ADA DOOR ACTUATOR
20	CONTINUOUS WATER PROOFING MEMBRANE TO EXTEND FROM UNDER FLOOR TILE UP WALL TO T.O. WALL TILE. REFER TO DETAIL 1/A311 & 2/A311
21	RECESSED CEILING TRACK (ABOVE) FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS.
22	CONCRETE FLOOR SLAB. REFER TO STRUCTURAL. COORDINATE INSTALLATION W/ DEVELOPER



LEVEL 1 FLOOR PLAN
1/8" = 1'-0"



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OPN Project No.

17609000

Sheet Issue Date

BID DOCUMENTS 11/30/2018

Sheet Name

RAISED ACCESS FLOOR PLAN

LEVEL 1

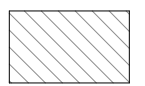
Sheet Number

A101.1

GENERAL NOTES

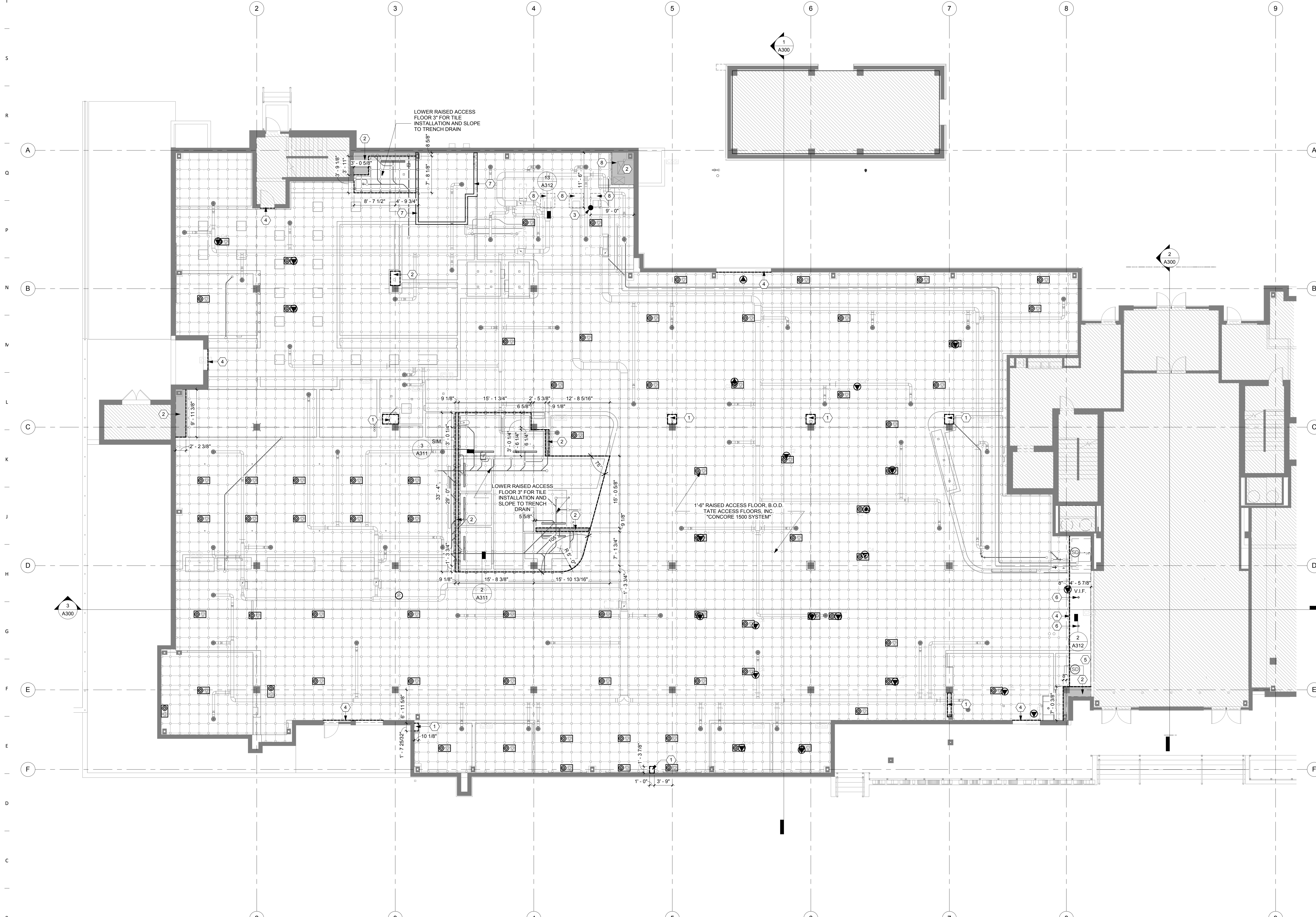
- DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
- IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
- ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
- COORDINATE FLOOR DRILLING IN EXISTING FLOOR SLABS WITH EXISTING ARCHITECTURAL JOIST LOCATION AND THE STRUCTURAL ENGINEER.
- REFER TO FINISH PLANS, SCHEDULE AND NARRATIVE FOR ADDITIONAL INFORMATION.
- ALL WALLS TO BE CONSTRUCTED ON TOP OF ACCESS FLOORING UNLESS IDENTIFIED OTHERWISE.
- PROVIDE TRANSITIONS AND ADDITIONAL PEDESTALS/ SUPPORT AS REQUIRED BETWEEN DIFFERENT RAISED ACCESS FLOORING HEIGHTS.
- ALL TOILETS ARE TO BE WALL HUNG ON CARRIERS. RAISED ACCESS FLOOR TO BE DESIGNED TO ACCOMMODATE REQUIRED LOADING AT TOILET LOCATIONS.
- MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MEP+T DRAWINGS.
- ELECTRICAL FLOOR BOXES ARE SHOWN FOR REFERENCE ONLY. FINAL LOCATION TO BE DETERMINED WITH ARCHITECT/OWNER THROUGH SHOW DRAWING PROCESS PRIOR TO INSTALLATION. CONTRACTOR TO PROVIDE QUANTITY AS INDICATED ON PLAN AND ANY BOXES NOT UTILIZED DURING CONSTRUCTION SHOULD BE TURNED OVER TO THE OWNER FOR FUTURE USE.
- REFER TO SPECIFICATION SECTION 017413 PROGRESS CLEANING FOR REQUIREMENTS ON PROGRESS AND FINAL CLEANING ON AND BELOW RAISED ACCESS FLOOR SYSTEM DURING CONSTRUCTION.
- EXISTING STRUCTURAL SUBFLOOR FLOOR IS NOT LEVEL. CONTRACTOR SHALL VERIFY AS BUILT CONDITIONS DURING BID WALKTHROUGH AND PROVIDE A MEANS WITHIN THE RAISED ACCESS FLOOR SYSTEM TO PROVIDE A LEVEL FINISHED FLOOR SURFACE AT THE HEIGHT INDICATED.

DIAGONAL HATCH AREAS NOT WITHIN SCOPE OF WORK.



RA FLOOR PLAN KEYNOTES

#	NOTE
1	EXISTING PLUMBING STACK LOCATION, V.I.F.. INSTALL ACCESS FLOORING TIGHT TO STRUCTURE AND PIPING.
2	MEP CHASE IDENTIFIED IN GREY, NO ACCESS FLOORING IN THIS LOCATION.
3	RAISED ACCESS FLOORING BASE POINT
4	EXTENT OF RAISED ACCESS FLOORING
5	EXISTING CONCRETE SLAB AT TOP OF RAISED ACCESS FLOOR LEVEL
6	RFID GATE, CORE DRILL THROUGH CONCRETE STRUCTURE TO PARKING DECK BELOW. REFER TO MEP DRAWINGS FOR POWER AND DATA.
7	2HR RATED WALL TO EXTEND FROM TOP OF HOLLOWCORE CONCRETE TO BOTTOM OF STRUCTURAL DECK. ACCESS FLOOR TO BUTT INTO EITHER SIDE OF WALL.
8	2HR RATED HOLLOWCORE FLOOR PENETRATION. REFER TO DETAIL 14/A312 FOR INFILL DETAIL.



LEVEL 1 RAISED ACCESS FLOOR PLAN
1/8" = 1'-0"



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Sheet Name
REFLECTED CEILING PLAN

Sheet Number
BASEMENT & LEVEL 1

A121

GENERAL NOTES

1. CEILING-MOUNTED FIXTURES, SPRINKLERS AND EQUIPMENT SHALL BE CENTERED IN CEILING PANELS OR GYPSUM BOARD SOFFITS AND EQUALLY SPACED U.N.O.
2. CENTER CEILING GRID IN ROOMS AS SHOWN UNLESS NOTED OTHERWISE. CONCEALED SPRINKLER HEAD COVERS SHALL BE PAINTED BY MANUFACTURER TO MATCH ADJACENT SOFFIT/ACP UNLESS NOTED OTHERWISE.
3. COORDINATE LOCATIONS OF EXIT LIGHTS AND EMERGENCY LIGHTS SHOWN ON ARCHITECTURAL DRAWINGS. IN THE EVENT OF A DISCREPANCY, VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
4. CEILING FIXTURE DIMENSIONS ARE TAKEN FROM CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
5. REFER TO ARCHITECTURAL DRAWINGS (ELEVATIONS & REFLECTED CEILING PLANS) FOR ALL MECHANICAL AND ELECTRICAL DEVICE AND FIXTURE LOCATIONS & MOUNTING HEIGHTS. IF NOT CLEARLY SPECIFIED, CONTACT ARCHITECT FOR FURTHER CLARIFICATION. MECHANICAL & ELECTRICAL DRAWINGS ARE FOR FIXTURE TYPE REFERENCE ONLY.
6. PAINT ALL EXPOSED STRUCTURE, DECK, DUCTWORK, CONDUIT, ETC. IN AREAS NOTED TO BE OPEN TO STRUCTURE UNLESS NOTED OTHERWISE. PAINTING OF EXPOSED STRUCTURE TO BE DONE AFTER ALL UTILITIES ARE INSTALLED.
7. ALL CEILING MECHANICAL, ELECTRICAL AND FIRE PROTECTION DEVICES TO BE PAINTED BLACK IN WOOD CEILING.
8. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.
9. REFER TO SHEET A600 FOR INTERIOR FINISH SCHEDULE AND MATERIAL REFERENCES IDENTIFIED ON DRAWINGS.

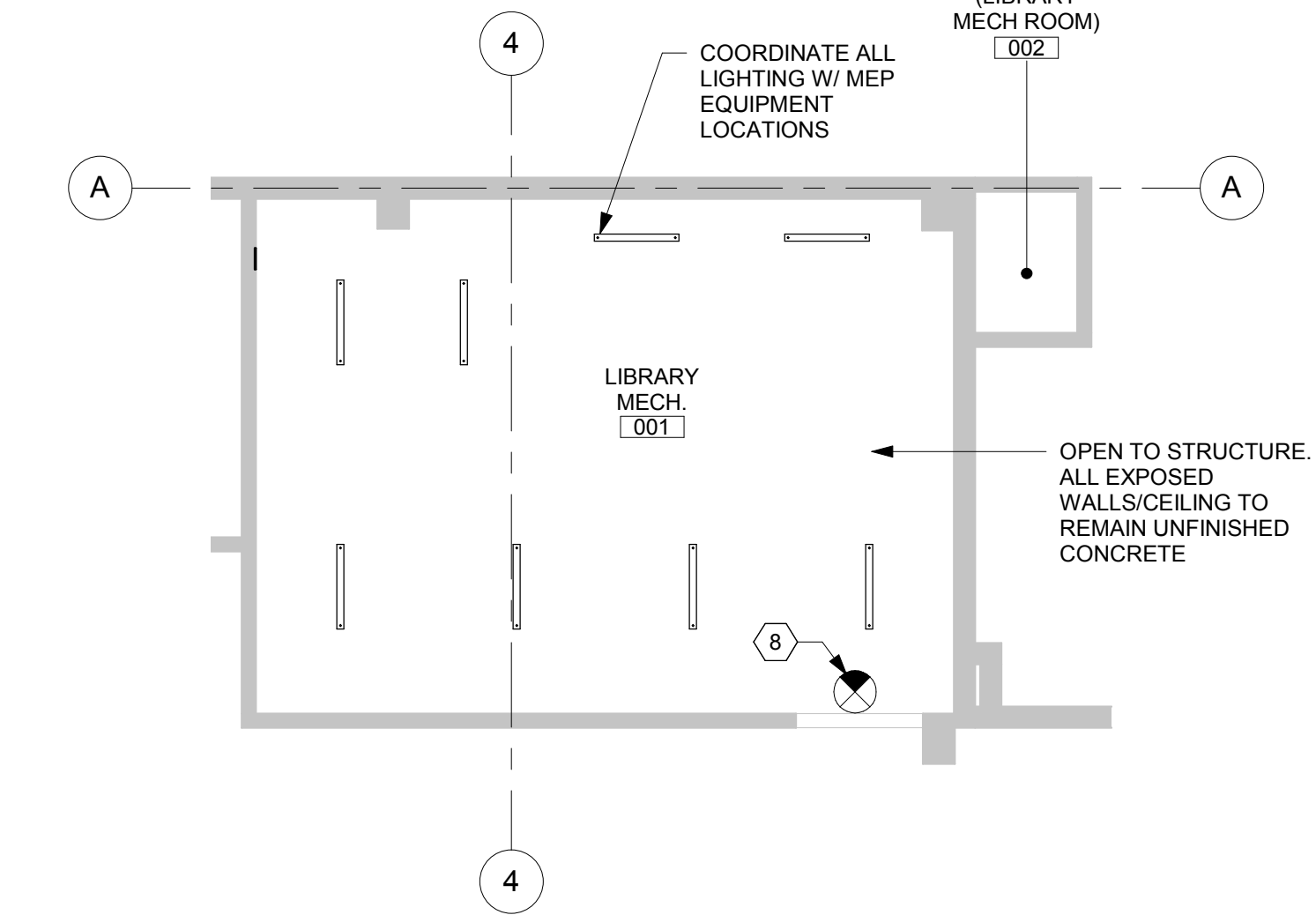
DIAGONAL HATCH AREAS NOT WITHIN SCOPE OF WORK.

CEILING LEGEND

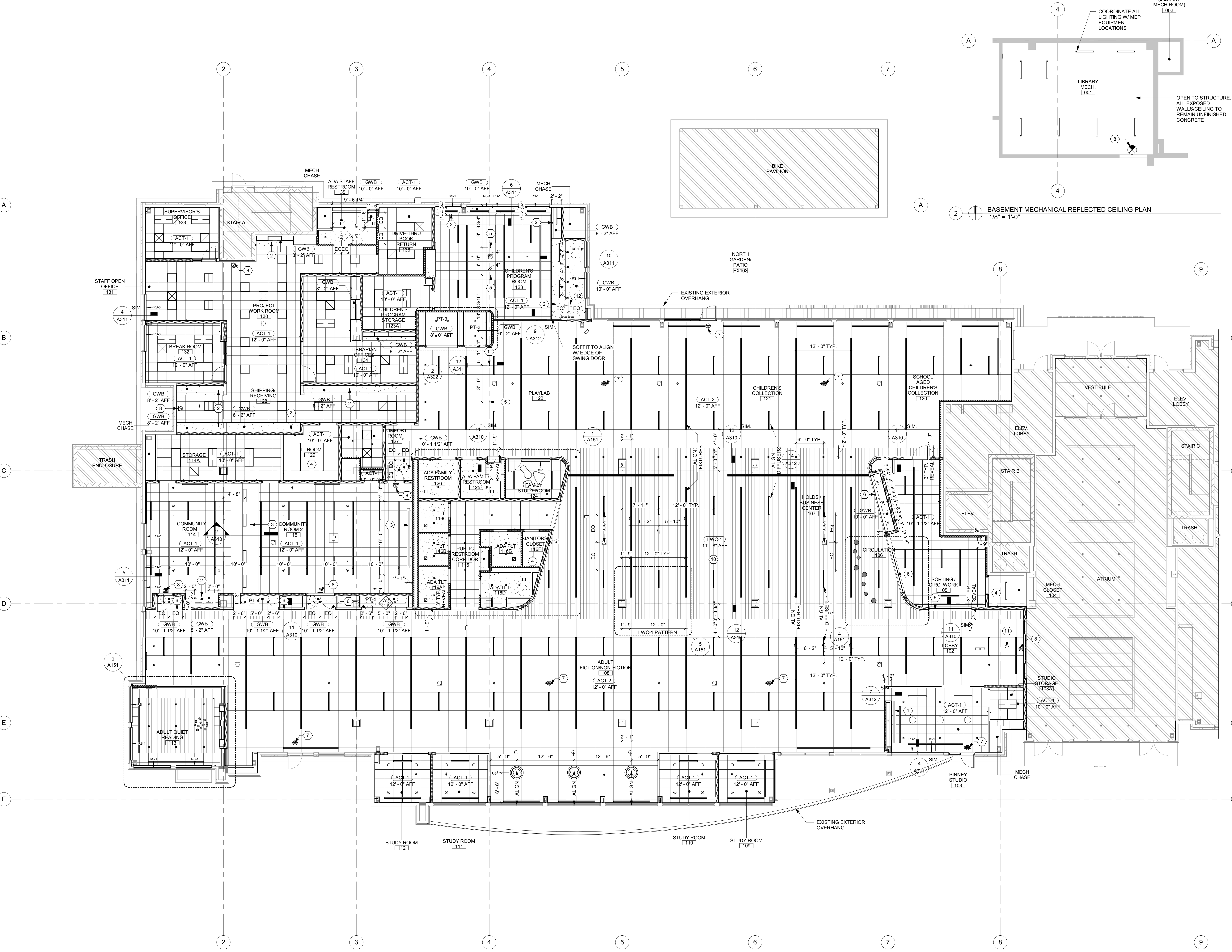
- BATT LINE DENOTES LOCATIONS OF ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT AT PERIMETER AND PENETRATIONS. REFER TO FLOOR PLANS FOR WALL TYPES.
- LINEAR FIXTURE
- LINEAR PENDANT
- RECESSED FIXTURE
 - RECESSED CAN
 - DOWN LIGHT PENDANT
 - SPRINKLER
 - VACANCY SENSOR
- CEILING MOUNT CAMERA
- SPEAKER
- WIRELESS ACCESS POINT
- MICROPHONE
- FIRE ALARM NOTIFICATION
- PROJECTOR
- HVAC RETURN DIFFUSER
- HVAC SUPPLY DIFFUSER
- HVAC SLOT DIFFUSER
- CEILING MOUNTED MONITORS

RCP KEYNOTES

#	NOTE
1	CEILING MOUNTED GREEN SCREEN, REFER TO TECH DRAWINGS
2	GYP. BOARD SOFFIT, EXTEND VERTICAL WALL 6" MIN ABOVE ADJACENT CEILING
3	CEILING MOUNTED OPERABLE ROOM PARTITION
4	NO CEILING IN THIS ROOM. OPEN TO STRUCTURE.
5	CEILING MOUNTED EYEBOLT, CONNECT TO STRUCTURE. REFER TO DETAIL 12/A311 AND STRUCTURAL DRAWINGS
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	CEILING MOUNTED EXIT SIGN
8	WALL MOUNTED EXIT SIGN
10	LWC-1 CEILING, REFER TO 5/A151 FOR PATTERN START LOCATION AND DETAILS
11	CEILING MOUNTED PATRON COUNTING, OFCI. REFER TO TECH DRAWINGS FOR ADDITIONAL INFORMATION
12	RECESSED CEILING TRACK FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL SUPPORT INFORMATION.
13	CEILING MOUNTED PROJECTOR SCREEN, REFER TO TECH DRAWINGS



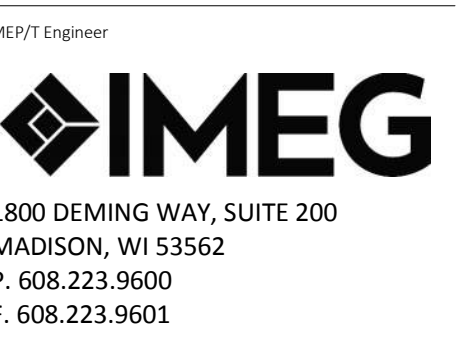
BASEMENT MECHANICAL REFLECTED CEILING PLAN
1/8" = 1'-0"



LEVEL 1 REFLECTED CEILING PLAN
1/8" = 1'-0"



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OPN Project No.
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Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
FINISH FLOOR PLAN LEVEL 1

Sheet Number
A131

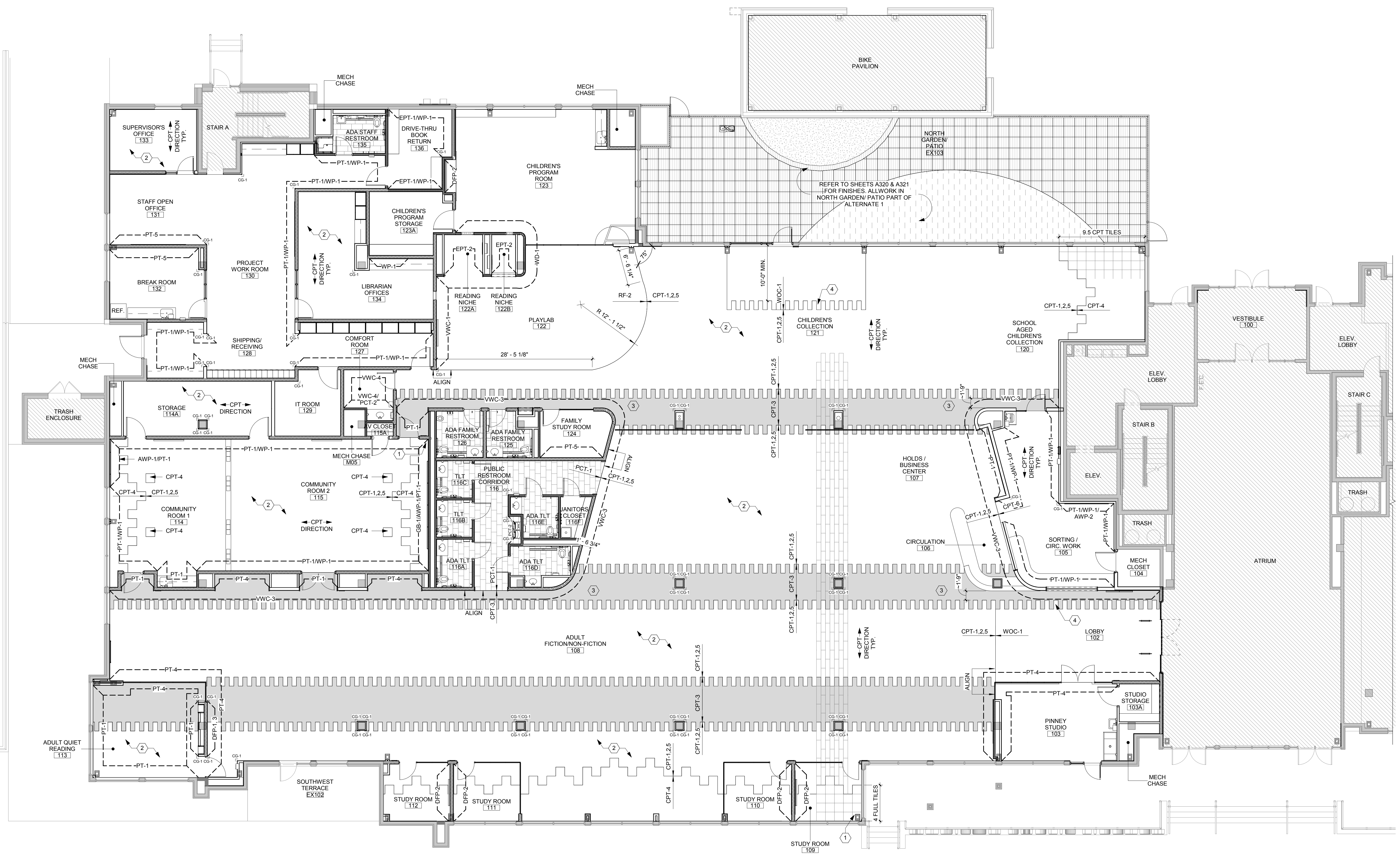
GENERAL NOTES

- ALL WALLS TO BE FINISHED TO A STANDARD LEVEL 4 WALL FINISH U.N.O.
- NO FINISH WORK TO OCCUR ON LOWER LEVEL
- REFER TO SHEET A600 FOR INTERIOR FINISH SCHEDULE AND MATERIAL REFERENCES IDENTIFIED ON DRAWINGS AND FLOOR TRANSITION DETAILS.
- ALL FLOORING MATERIAL TRANSITIONS, TERMINATION AND SEAM LOCATIONS ARE TO BE CENTERED UNDER DOOR LEAFS IN CLOSED POSITION U.N.O.
- EXTEND FLOORING INTO TOE SPACES, DOOR REVEALS, CLOSETS AND SIMILAR OPENINGS U.N.O.
- PROVIDE FLOORING TRANSITION STRIPS AT FLOOR MATERIAL CHANGES. COORDINATE FLOORING TRANSITION MATERIAL, PROFILE, AND COLOR WITH DESIGNER PRIOR TO INSTALLATION.
- POWER AND DATA LOCATIONS ARE TO BE COORDINATED IN THE FIELD WITH FINAL FURNISHING PLANS PRIOR TO INSTALLATION OF BOXES, FITTINGS, AND RACEWAYS.
- START FULL FLOOR & WALL TILES AS SHOWN
- WHERE MULTIPLE MATERIALS INDICATED ON WALL REFER TO INTERIOR ELEVATIONS FOR EXTENTS OF EACH MATERIAL FINISH. NOTIFY ARCHITECT OF ANY DISCREPANCY.
- ALL EXPOSED GYP BOARD COLUMNS AND BOX-OUTS INSTALLED BY DEVELOPER TO BE FINISHED AND PAINTED TO MATCH ADJACENT WALL COLOR.

DIAGONAL HATCHED AREAS NOT WITHIN SCOPE OF WORK

FINISH FLOOR PLAN KEYNOTES

#	NOTE
1	START POINT FOR CARPET INSTALLATION
2	CARPET PATTERN TO BE RANDOM COMBINATION OF CPT-1(50%), CPT-2(25%), AND CPT-5(25%)
3	CUT CARPET TILES AS NECESSARY AT THIS LOCATION TO ALLOW W/ CEILING ABOVE
4	CUT WALK-OFF CARPET TO BLEND INTO ADJACENT FIELD CARPET PATTERN AS INDICATED.



1 LEVEL 1 FINISH FLOOR PLAN
1/8" = 1'-0"



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Sheet Issue Date
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Sheet Name
ENLARGED FLOOR PLANS

Sheet Number
A141

GENERAL NOTES

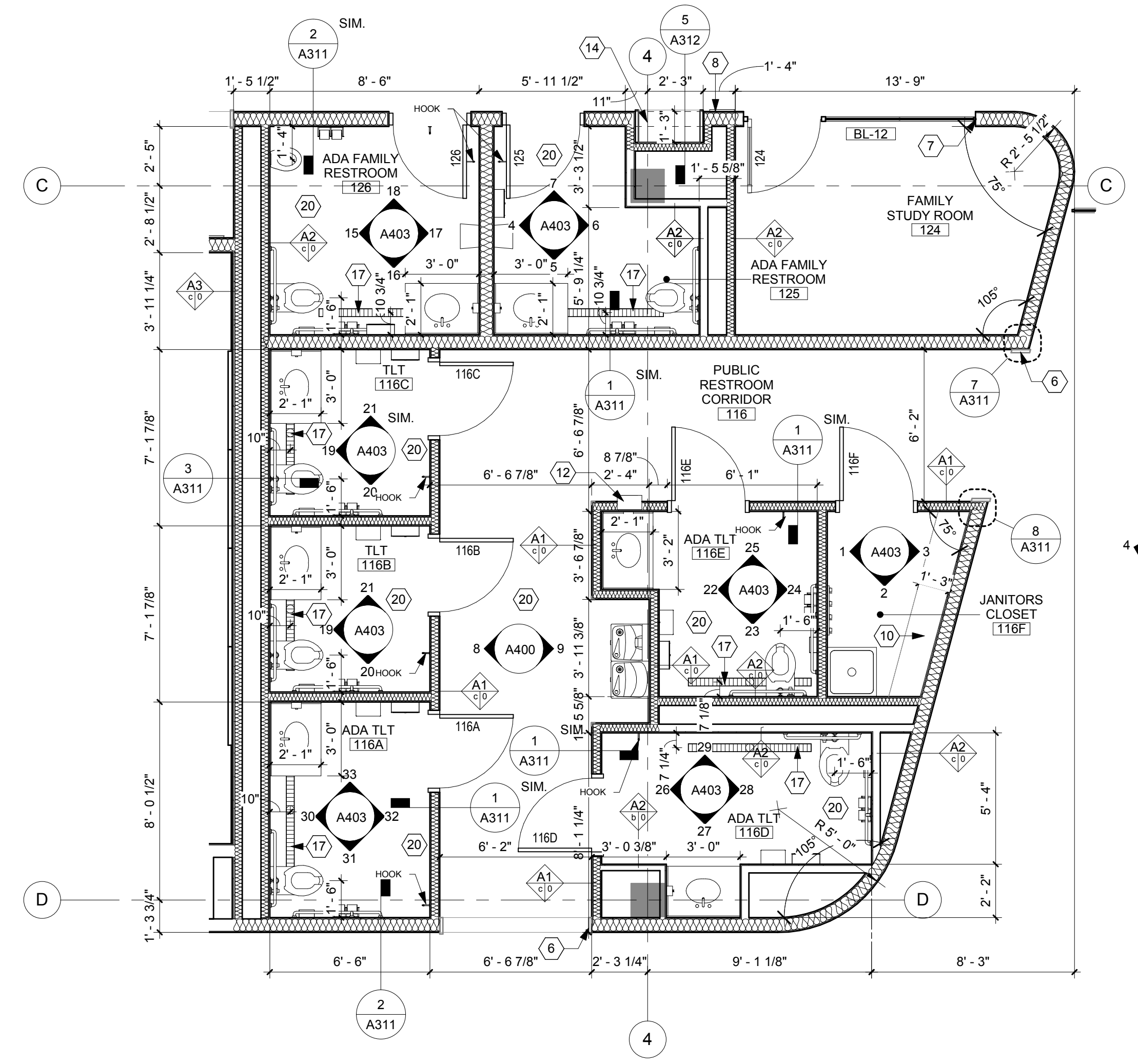
1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS
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3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL WALL TYPE LOCATIONS, DIMENSIONS, AND KEYNOTES
6. PROVIDE CONCEALED BLOCKING AT ALL ACCESSORIES AND CASEWORK LOCATIONS IN METAL FRAMING WALL ASSEMBLIES. EXTEND BLOCKING A MINIMUM OF 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL ACCESSORY ITEMS.
7. ALL WALLS WITH SOUND ATTENUATION BLANKETS ARE TO HAVE ACOUSTICAL SEALANT AT TOP AND BOTTOM AND AT ALL WALL PENETRATIONS.
8. COORDINATE FLOOR DRILLING IN EXISTING FLOOR SLABS WITH EXISTING HOLLOWCORE SLAB AND CONCRETE BEAM LOCATIONS. DRILLING TO BE COORDINATED WITH DEVELOPER AND BUILDING ENGINEER.
9. ALL NEW INTERIOR WALLS TO BE TYPE (A,I,D,O) 6" METAL STUDS W/ SOUND BATT AND WALLS TO DECK UNLESS NOTED OTHERWISE.
10. REFER TO FINISH PLANS AND SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
11. REFER TO SHEET A602 FOR ALL INTERIOR GLAZING ELEVATIONS.
12. ALL DOOR FRAMES TO BE LOCATED 4" FROM FINISH FACE OF WALL UNO.
13. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.
14. FLOOR PLAN KEYNOTES TO BE USED ON FLOOR PLANS AND ENLARGED FLOOR PLANS.

DIAGONAL HATCHED AREAS NOT WITHIN SCOPE OF WORK.

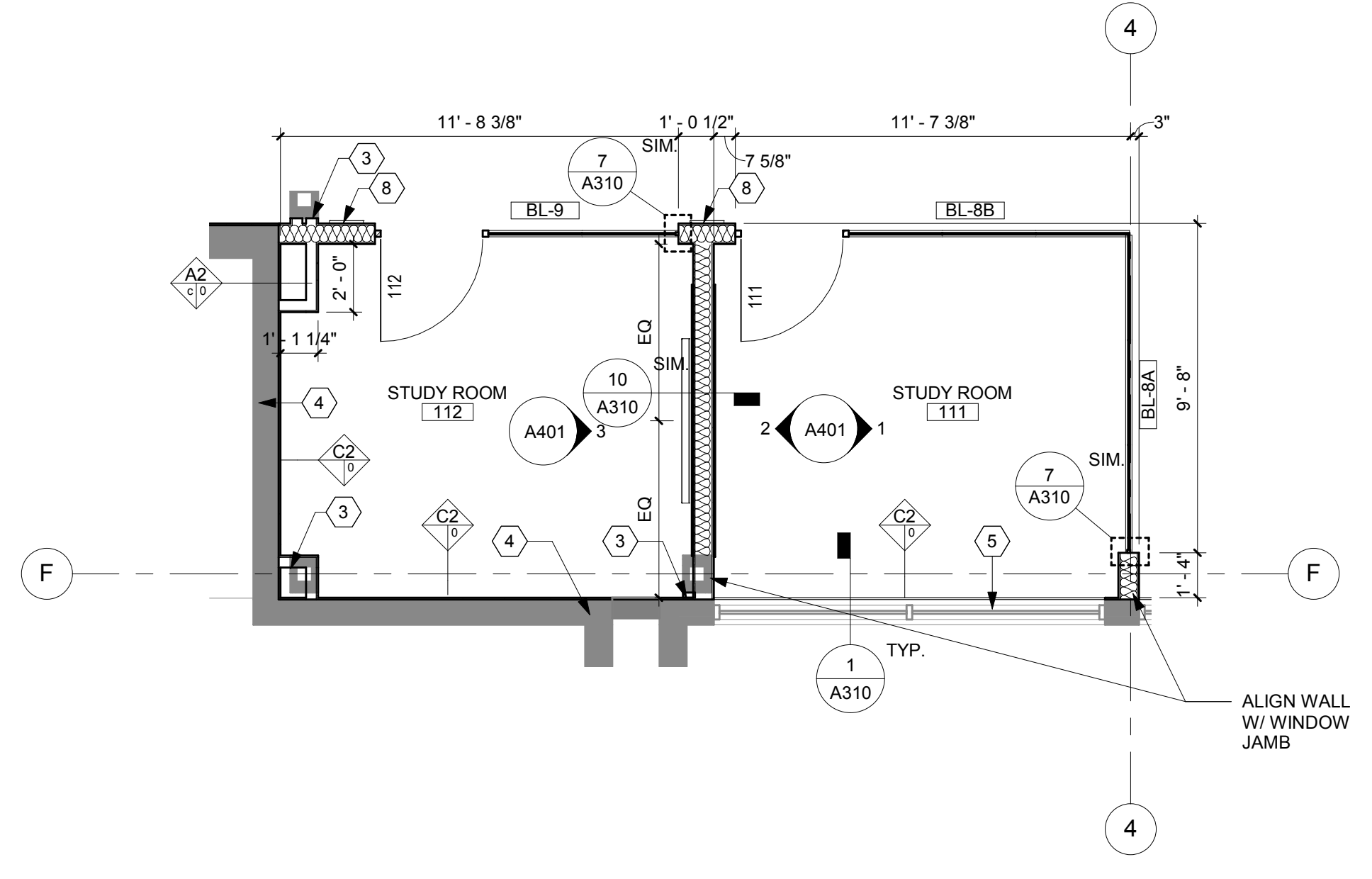
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FLOOR PLAN KEYNOTES

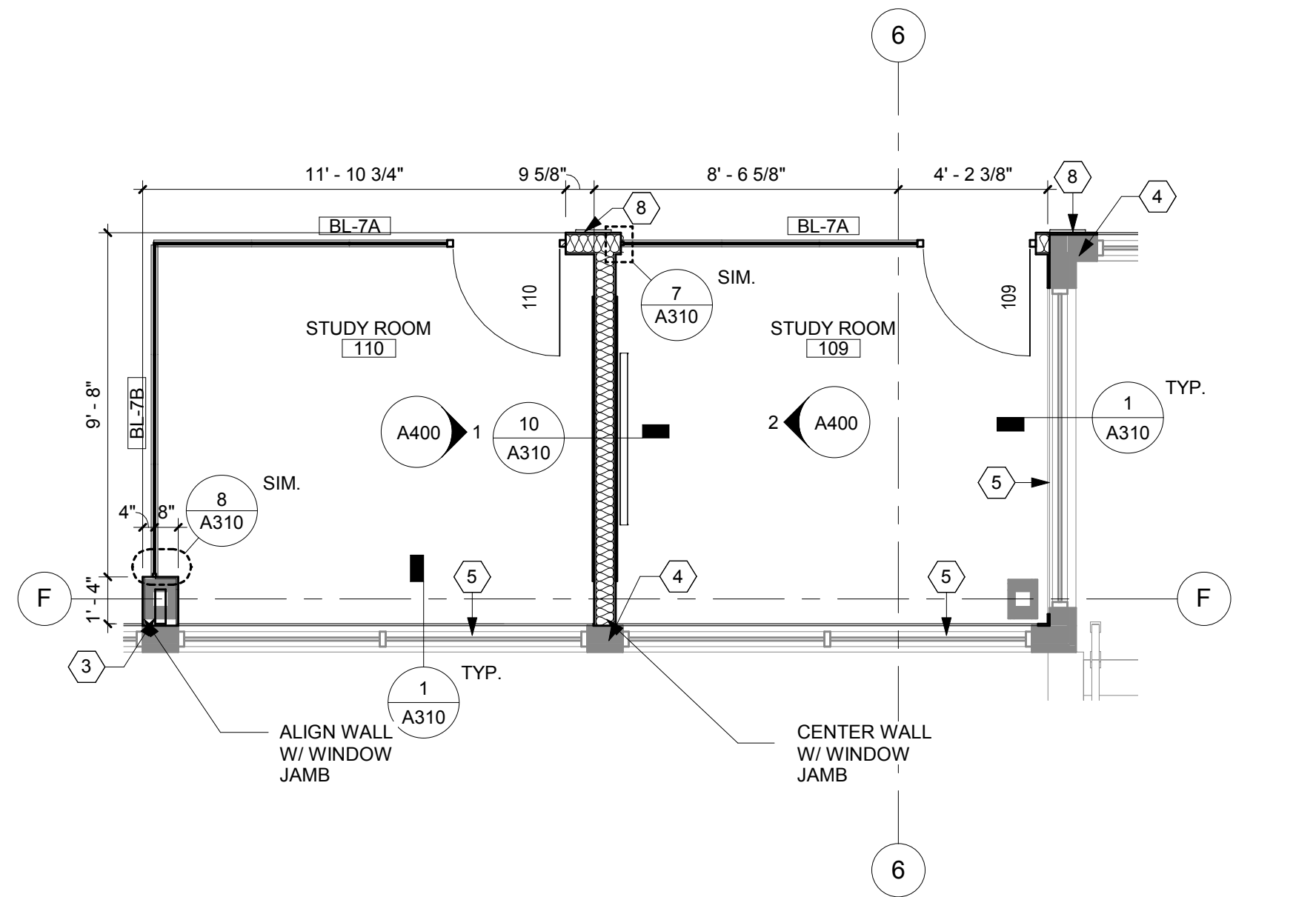
#	NOTE
1	RFID GATE OFCI, CORE DRILL THROUGH STRUCTURE FOR POWER AND DATA. REFER TO MEP DRAWINGS.
2	FUR OUT AROUND EXIST. COLUMN AND PIPING AS INDICATED. SHALLOW BACK-BOXES REQUIRED. PT-1
3	PROVIDE FRAMING AND GYP BOARD BETWEEN COLUMN AND WALL. PT-1
4	FILL ALL EXTERIOR WALL CAVITIES W/ 4" MIN. CONTINUOUS SPRAY FOAM INSULATION (MIN R-22) BELOW RAISED ACCESS FLOORING AND UP ONTO BOTTOM OF STRUCTURE ABOVE INCLUDING ABOVE AND BELOW WINDOW OPENINGS.
5	QUARTZ WINDOW SILL. QZ-1. REFER TO DETAIL 1/A310.
6	SOLID WOOD WINDOW HEAD AND JAMB WD-1
7	SOLID WOOD WINDOW HEAD, JAMB, AND SILL. REFER TO DETAIL 3/A310.
8	DIGITAL ROOM SCHEDULE. REFER TO TECH. DRAWINGS
9	WALL MOUNTED MONITOR. REFER TO TECH DRAWINGS
10	HEAVY DUTY ADJUSTABLE SHELVING. REFER TO ELEVATIONS AND DETAIL 8/A500
11	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
12	SEMI-RECESSED MOUNTED FIRE EXTINGUISHER CABINET
13	WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR MACHINE AND CABINET
14	BUILT-IN WOOD (WD-1) DISPLAY
15	EXTERIOR YARD DRINKING FOUNTAIN. REFER TO PLUMBING DRAWINGS
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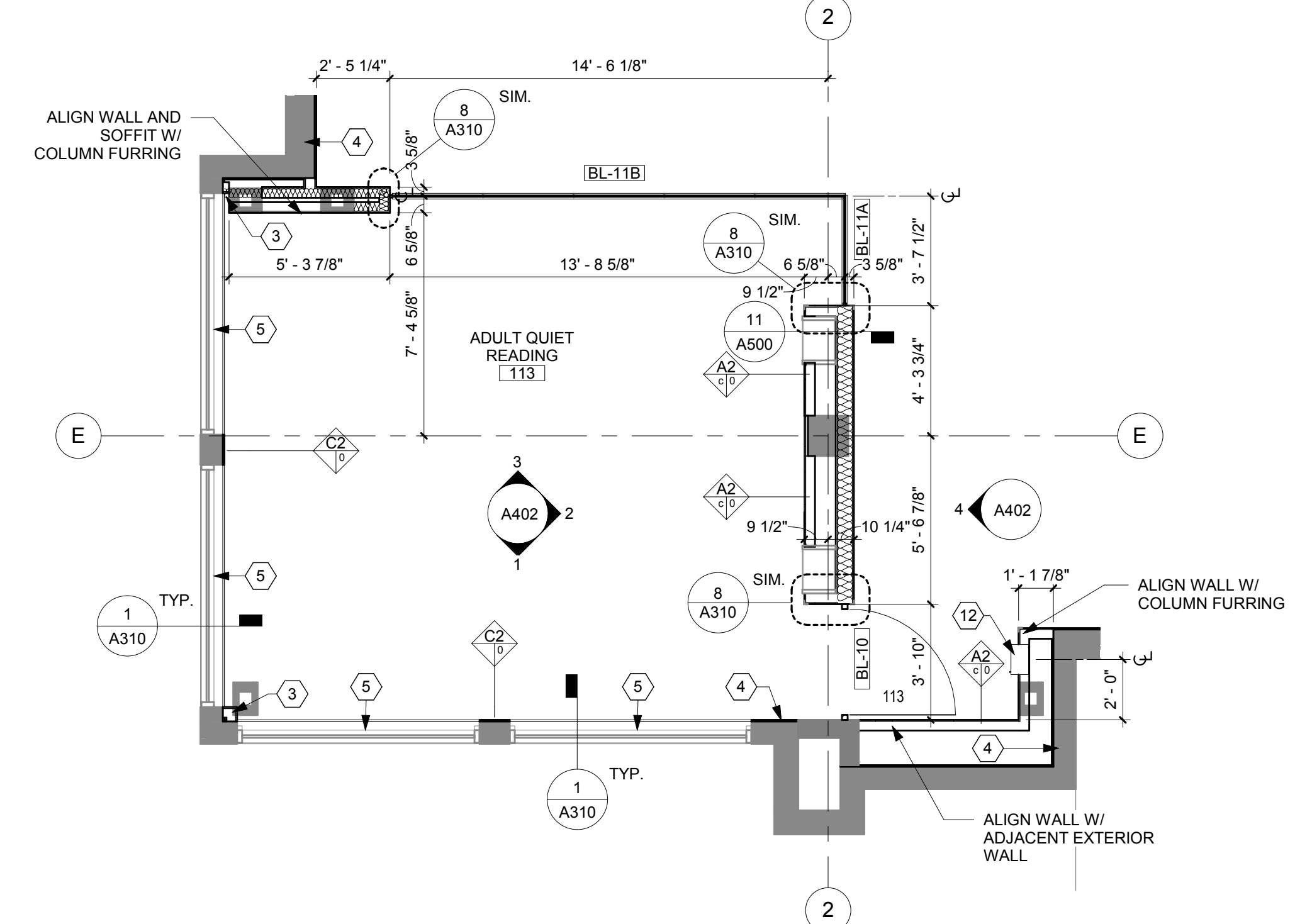
6 ENLARGED PUBLIC RESTROOMS, FAMILY RESTROOM, NEW MOMS ROOM AND FAMILY ROOM
1/4" = 1'-0"



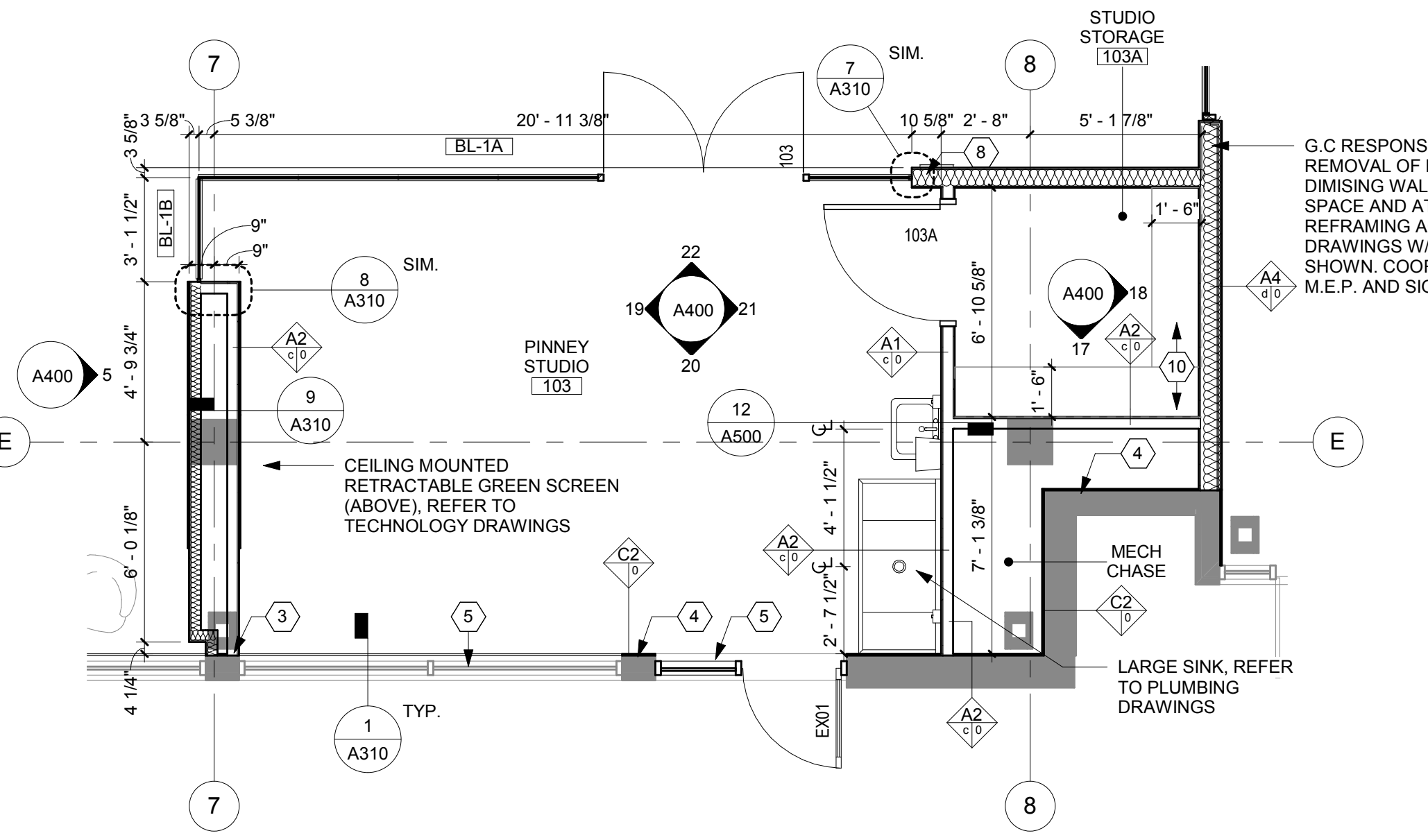
3 ENLARGED STUDY ROOM 111 & 112
1/4" = 1'-0"



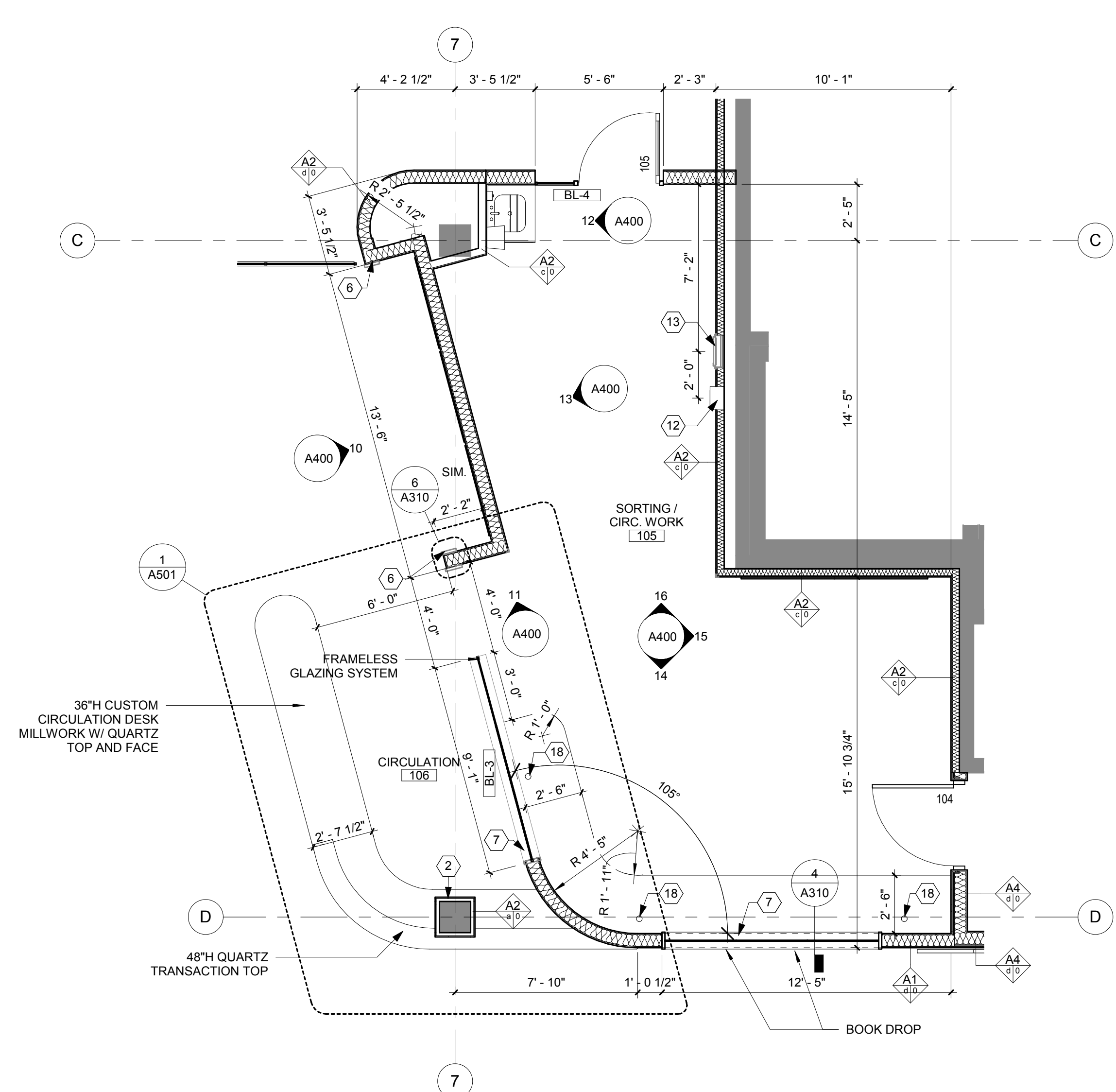
2 ENLARGED STUDY ROOM 109 & 110
1/4" = 1'-0"



5 ENLARGED QUIET READING
1/4" = 1'-0"



4 ENLARGED CREATOR SPACE
1/4" = 1'-0"



1 ENLARGED FRONT OF HOUSE STAFF SPACE
1/4" = 1'-0"

G.C. RESPONSIBLE FOR REMOVAL OF EXISTING DIMISING WALL B/T LIBRARY SPACE AND ATRUM AND REFRAMING ACCORDING TO DRAWINGS W/ OPENINGS AS SHOWN. COORDINATE W/ M.E.P. AND SIGNAGE

CEILING MOUNTED RETRACTABLE GREEN SCREEN (ABOVE). REFER TO TECHNOLOGY DRAWINGS

LARGE SINK. REFER TO PLUMBING DRAWINGS

36\"/>

48\"/>

BOOK DROP



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ENLARGED FLOOR PLANS

Sheet Number

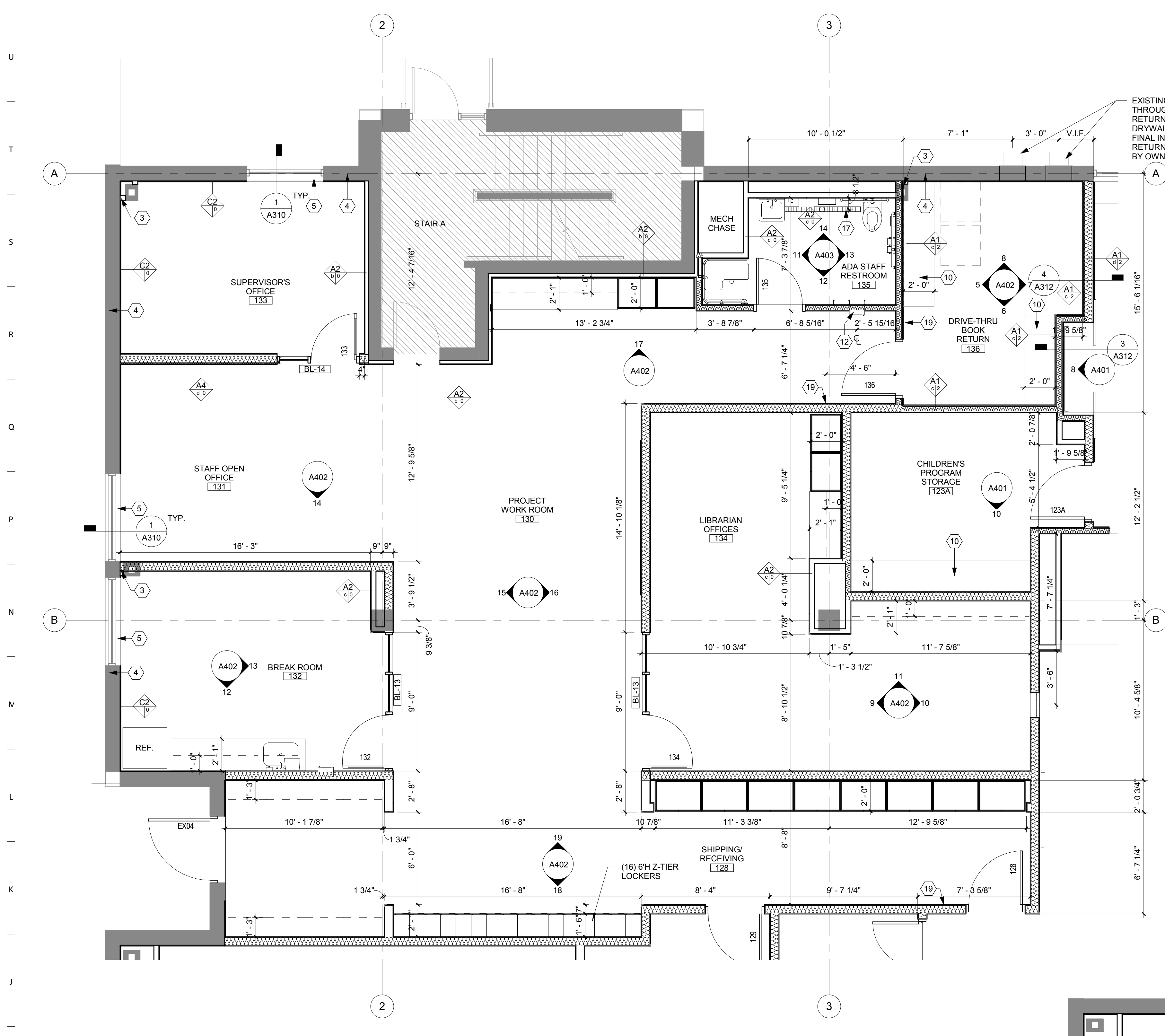
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9. ALL NEW INTERIOR WALLS TO BE TYPE (A1,D) 6" METAL STUDS W/ SOUND BATT AND WALLS TO DECK UNLESS NOTED OTHERWISE
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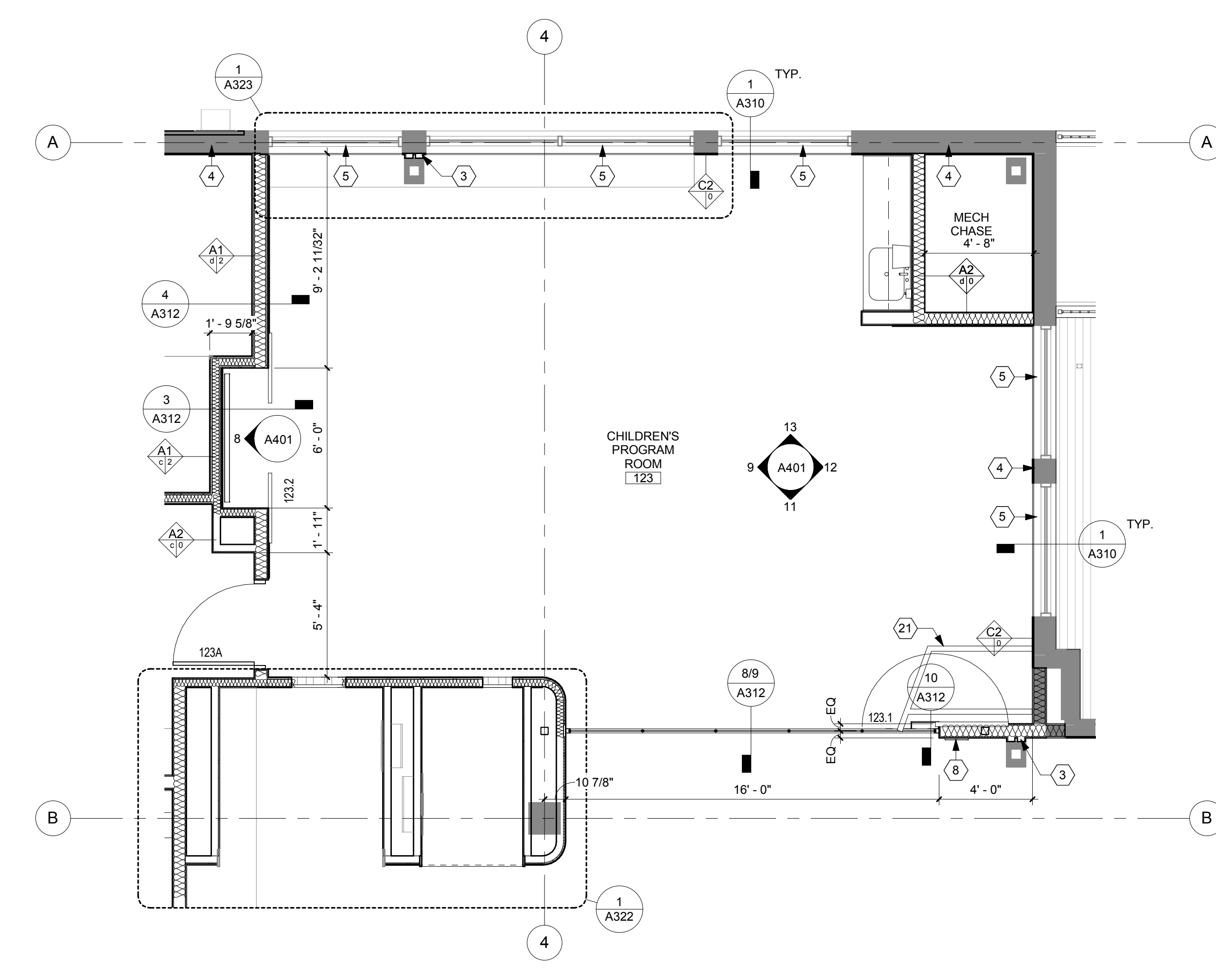
FLOOR PLAN KEYNOTES

#	NOTE
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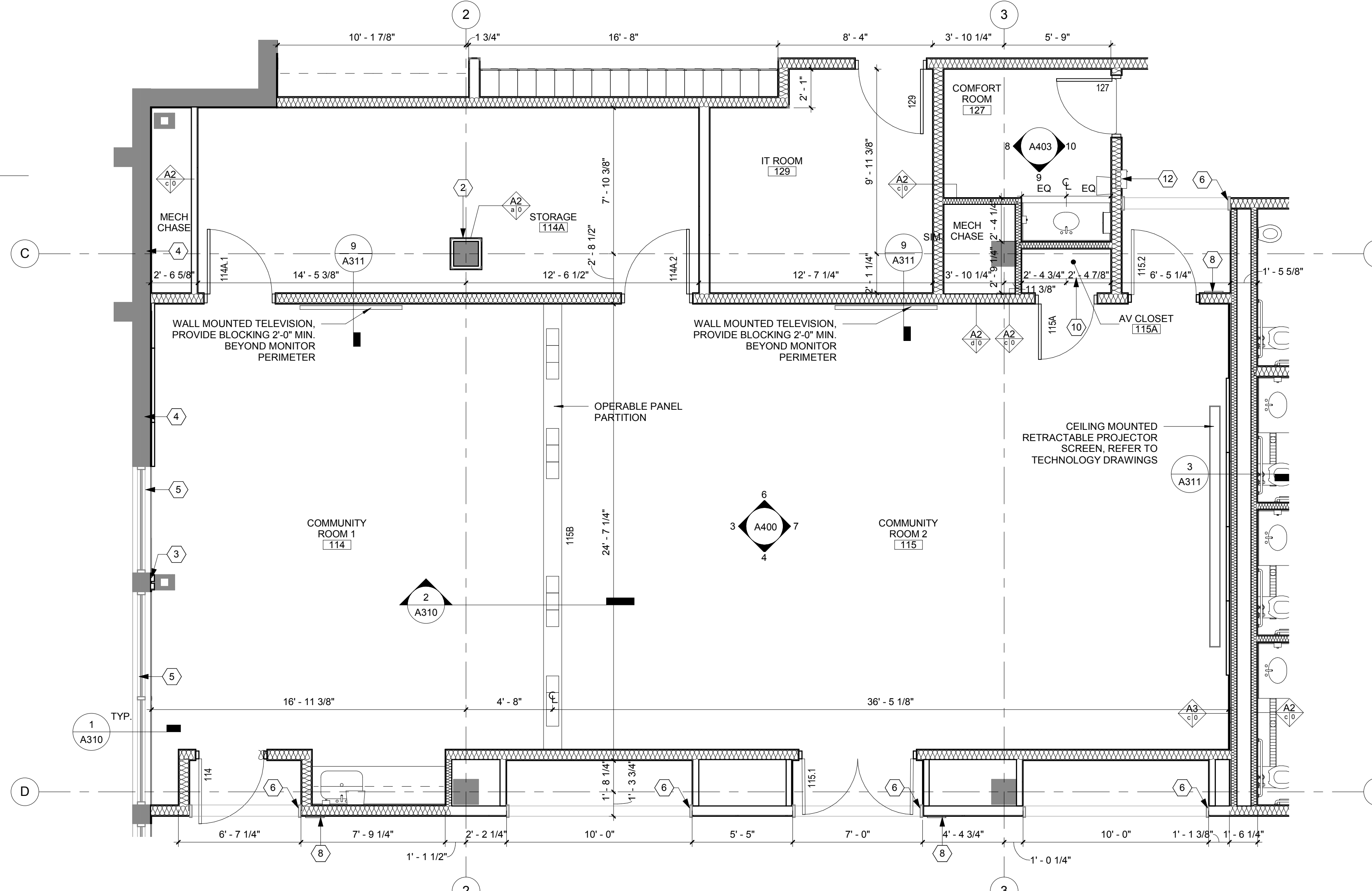
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- 6 SOLID WOOD OPENING HEAD AND JAMB WD-1
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- 9 WALL MOUNTED MONITOR. REFER TO TECH DRAWINGS
- 10 HEAVY DUTY ADJUSTABLE SHELVING. REFER TO ELEVATIONS AND DETAIL 8/A500
- 11 SURFACE MOUNTED FIRE EXTINGUISHER CABINET
- 12 SEMI-RECESSED MOUNTED FIRE EXTINGUISHER CABINET
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2 ENLARGED BACK OF HOUSE STAFF SPACES
1/4" = 1'-0"



3 ENLARGED CHILDREN'S PROGRAM ROOM
1/4" = 1'-0"



1 ENLARGED COMMUNITY ROOM
1/4" = 1'-0"



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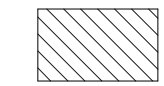


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GENERAL NOTES

1. CEILING-MOUNTED FIXTURES, SPRINKLERS AND EQUIPMENT SHALL BE CENTERED IN CEILING PANELS OR GYPSUM BOARD SOFFITS AND EQUALLY SPACED U.I.O.
2. CENTER CEILING GRID IN ROOMS AS SHOWN UNLESS NOTED OTHERWISE.
3. CONCEALED SPRINKLER HEAD COVERS SHALL BE PAINTED BY MANUFACTURER TO MATCH ADJACENT SOFFITFACE UNLESS NOTED OTHERWISE.
4. COORDINATE LOCATIONS OF EXIT LIGHTS AND EMERGENCY LIGHTS SHOWN ON ARCHITECTURAL DRAWINGS, IN THE EVENT OF A DISCREPANCY, VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
5. CEILING FIXTURE DIMENSIONS ARE TAKEN FROM CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
6. REFER TO ARCHITECTURAL DRAWINGS (ELEVATIONS & REFLECTED CEILING PLANS) FOR ALL MECHANICAL AND ELECTRICAL DEVICE AND FIXTURE LOCATIONS & MOUNTING HEIGHTS. IF NOT CLEARLY SPECIFIED, CONTACT ARCHITECT FOR FURTHER CLARIFICATION. MECHANICAL & ELECTRICAL DRAWINGS ARE FOR FIXTURE TYPE REFERENCE ONLY.
7. PAINT ALL EXPOSED STRUCTURE, DECK, DUCTWORK, CONDUIT, ETC. IN AREAS NOTED TO BE OPEN TO STRUCTURE UNLESS NOTED OTHERWISE. PAINTING OF EXPOSED STRUCTURE TO BE DONE AFTER ALL UTILITIES ARE INSTALLED.
8. ALL CEILING MECHANICAL, ELECTRICAL AND FIRE PROTECTION DEVICES TO BE PAINTED BLACK IN WOOD CEILING.
9. NOT ALL KEYNOTES UTILIZED ON EACH SHEET OR VIEW.
10. REFER TO SHEET A600 FOR INTERIOR FINISH SCHEDULE AND MATERIAL REFERENCES IDENTIFIED ON DRAWINGS.

DIAGONAL HATCH AREAS NOT WITHIN SCOPE OF WORK.



CEILING LEGEND

- ▨ BATT LINE DENOTES LOCATIONS OF ACOUSTIC PARTITIONS TO RECEIVE ACOUSTICAL BATT INSULATION AND SOUND SEALANT AT PERIMETER AND PENETRATIONS. REFER TO FLOOR PLANS FOR WALL TYPES.
- LINEAR FIXTURE
- LINEAR PENDANT
- RECESSED FIXTURE
 - RECESSED CAN
 - DOWN LIGHT PENDANT
 - SPRINKLER
 - VACANCY SENSOR
 - CEILING MOUNT CAMERA
 - SPEAKER
 - WIRELESS ACCESS POINT
 - MICROPHONE
 - FIRE ALARM NOTIFICATION
- PROJECTOR
- ▨ HVAC RETURN DIFFUSER
- ▨ HVAC SUPPLY DIFFUSER
- ▨ HVAC SLOT DIFFUSER
- ▨ CEILING MOUNTED MONITORS

RCP KEYNOTES

#	NOTE
1	CEILING MOUNTED GREEN SCREEN, REFER TO TECH DRAWINGS
2	GYP. BOARD SOFFIT, EXTEND VERTICAL WALL 6" MIN ABOVE ADJACENT CEILING
3	CEILING MOUNTED OPERABLE ROOM PARTITION
4	NO CEILING IN THIS ROOM. OPEN TO STRUCTURE.
5	CEILING MOUNTED EYEBOLT. CONNECT TO STRUCTURE. REFER TO DETAIL 12/A311 AND STRUCTURAL DRAWINGS
6	SOLID WOOD OPENING HEAD AND JAMB WD-1
7	CEILING MOUNTED EXIT SIGN
8	WALL MOUNTED EXIT SIGN
10	LWC-1 CEILING, REFER TO 5/A151 FOR PATTERN START LOCATION AND DETAILS
11	CEILING MOUNTED PATRON COUNTING. OFCI. REFER TO TECH DRAWINGS FOR ADDITIONAL INFORMATION
12	RECESSED CEILING TRACK FOR STACKING SLIDING DOOR PANELS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL SUPPORT INFORMATION.
13	CEILING MOUNTED PROJECTOR SCREEN, REFER TO TECH DRAWINGS

Key Plan

Revision

Date

City Contract No.

7662

OPN Project No.

17609000

Sheet Issue Date

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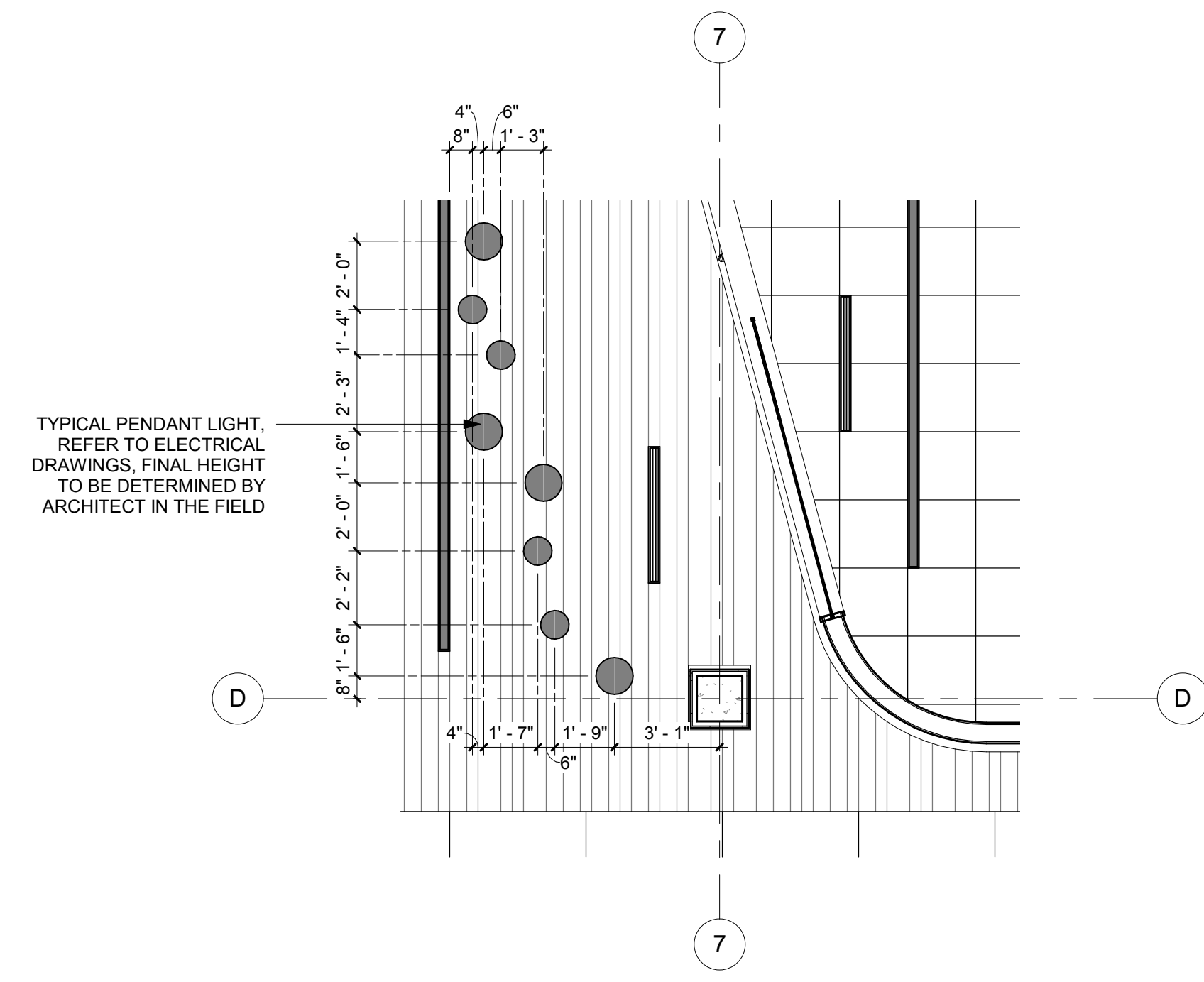
11/30/2018

Sheet Name

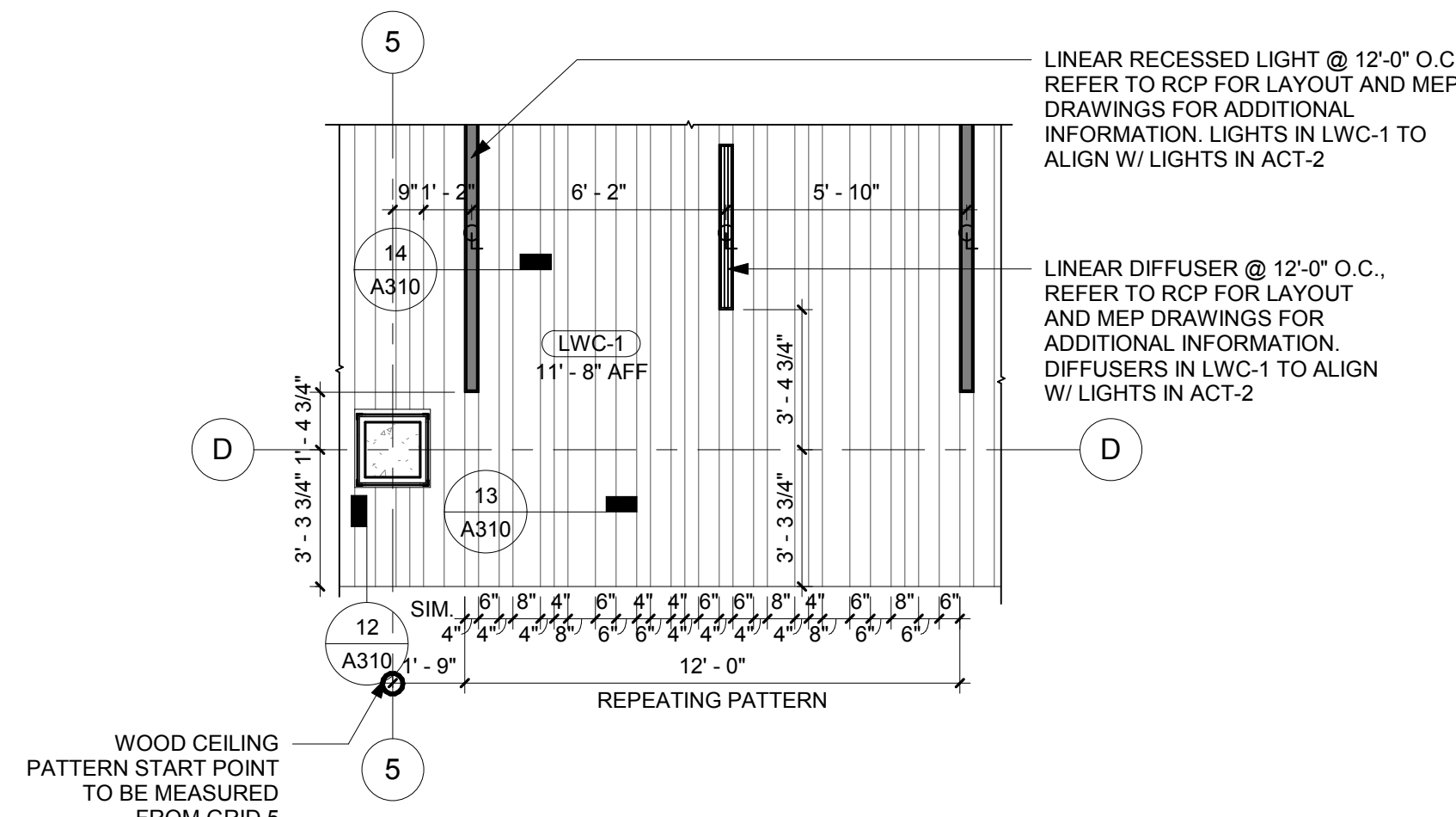
ENLARGED REFLECTED CEILING PLANS

Sheet Number

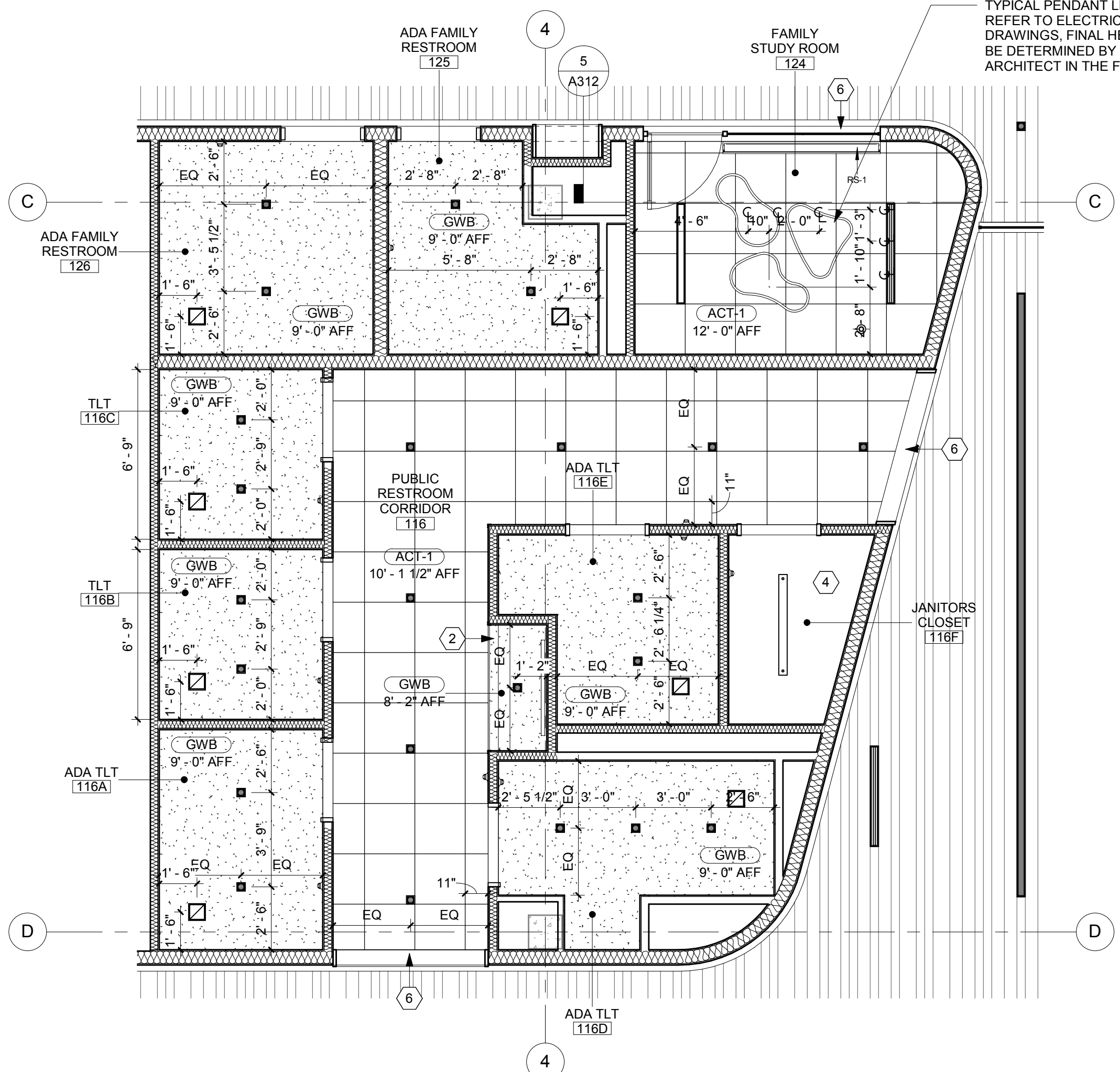
A151



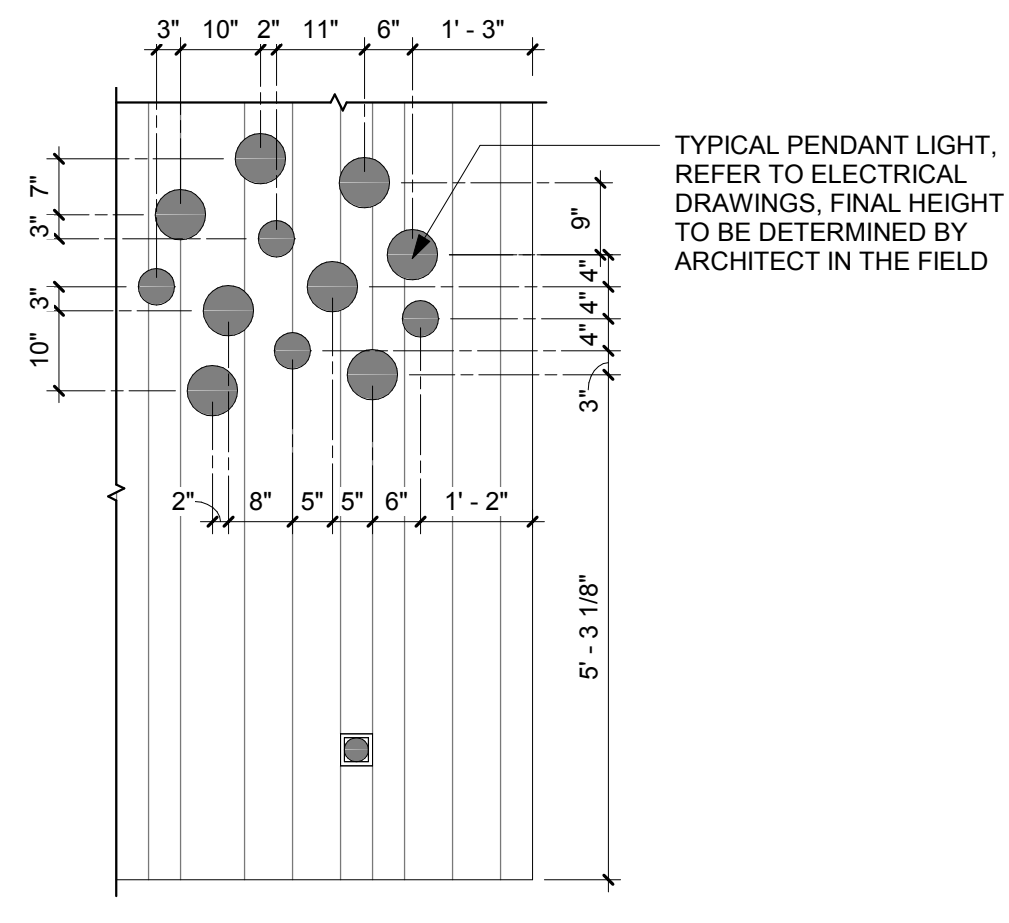
4 ENLARGED CIRCULATION DESK REFLECTED CEILING PLAN
1/4" = 1'-0"



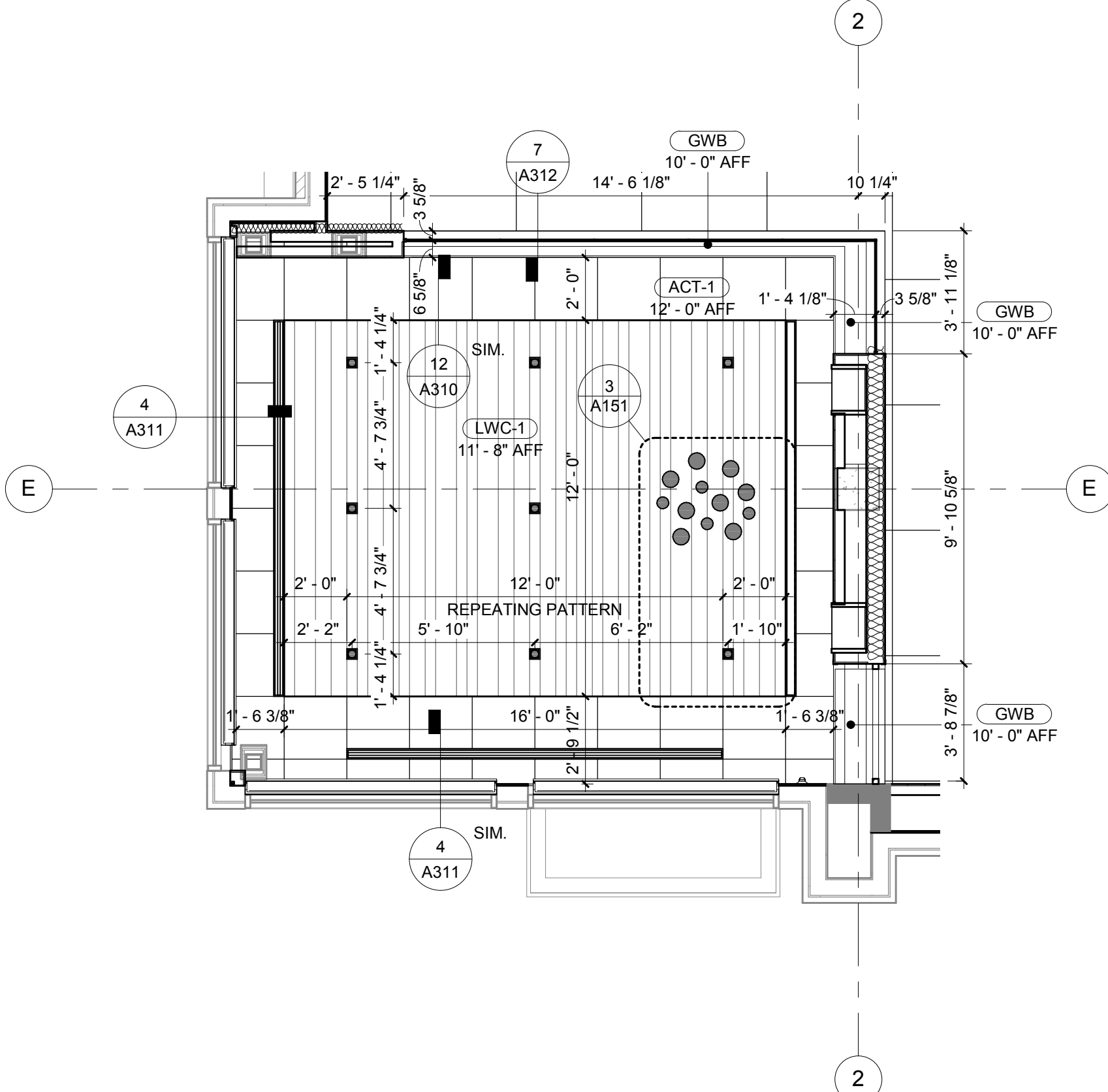
5 ENLARGED WOOD CORE REFLECTED CEILING PLAN
1/4" = 1'-0"



1 ENLARGED RESTROOM CORE REFLECTED CEILING PLAN
1/4" = 1'-0"



3 ENLARGED QUIET READING LIGHT GROUPING
1/2" = 1'-0"

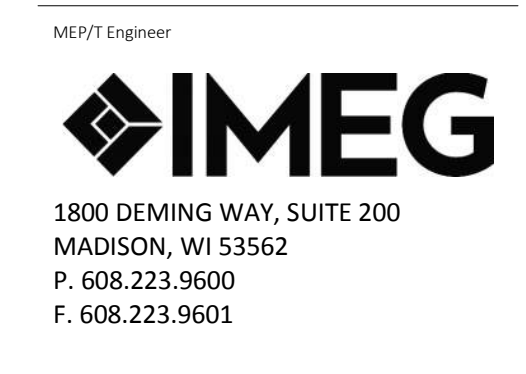


2 ENLARGED QUIET READING WOOD CLOUD REFLECTED CEILING PLAN
1/4" = 1'-0"

- GENERAL NOTES**
1. ALL FURNITURE SHOWN ON PLANS IS FOR REFERENCE AND COORDINATION PURPOSES ONLY.
 2. HATCHED AREAS NOT WITHIN SCOPE OF WORK.

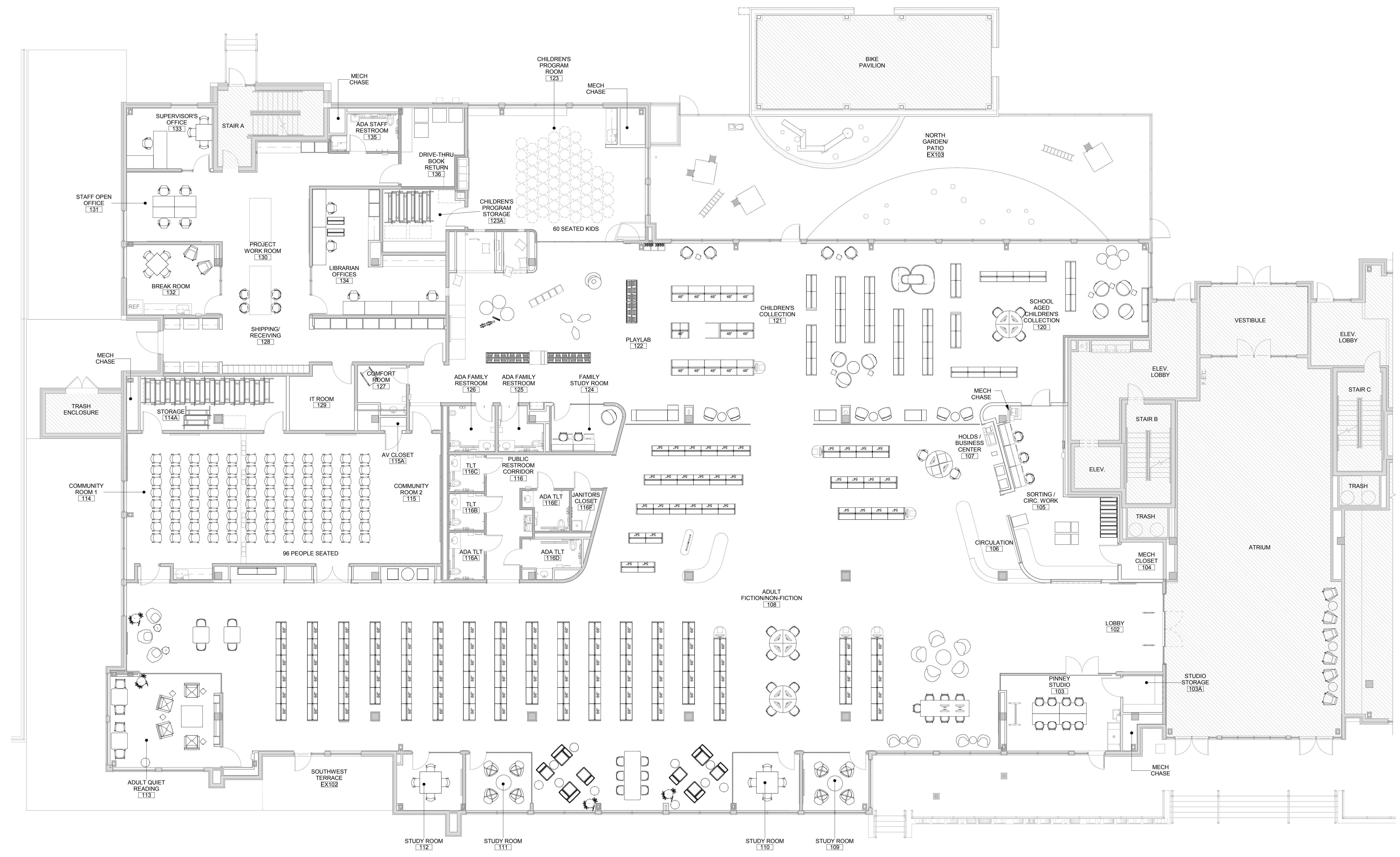


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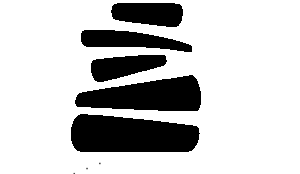
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FOR REFERENCE ONLY

1 LEVEL 1 FURNITURE FLOOR PLAN
 1/8" = 1'-0"



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GENERAL NOTES

1. EXTERIOR ELEVATIONS PRIMARILY SHOWN FOR REFERENCE AND COORDINATION PURPOSES ONLY. ALL EXTERIOR WALL CLADDING MATERIALS AND OPENINGS ARE EXISTING.
2. LIBRARY SIGNAGE IS NEW AND WILL BE COORDINATED BETWEEN THE DEVELOPER AND OWNER. NO WORK REQUIRED BY G.C.
3. ALL MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

EXT. ELEVATION KEYNOTES

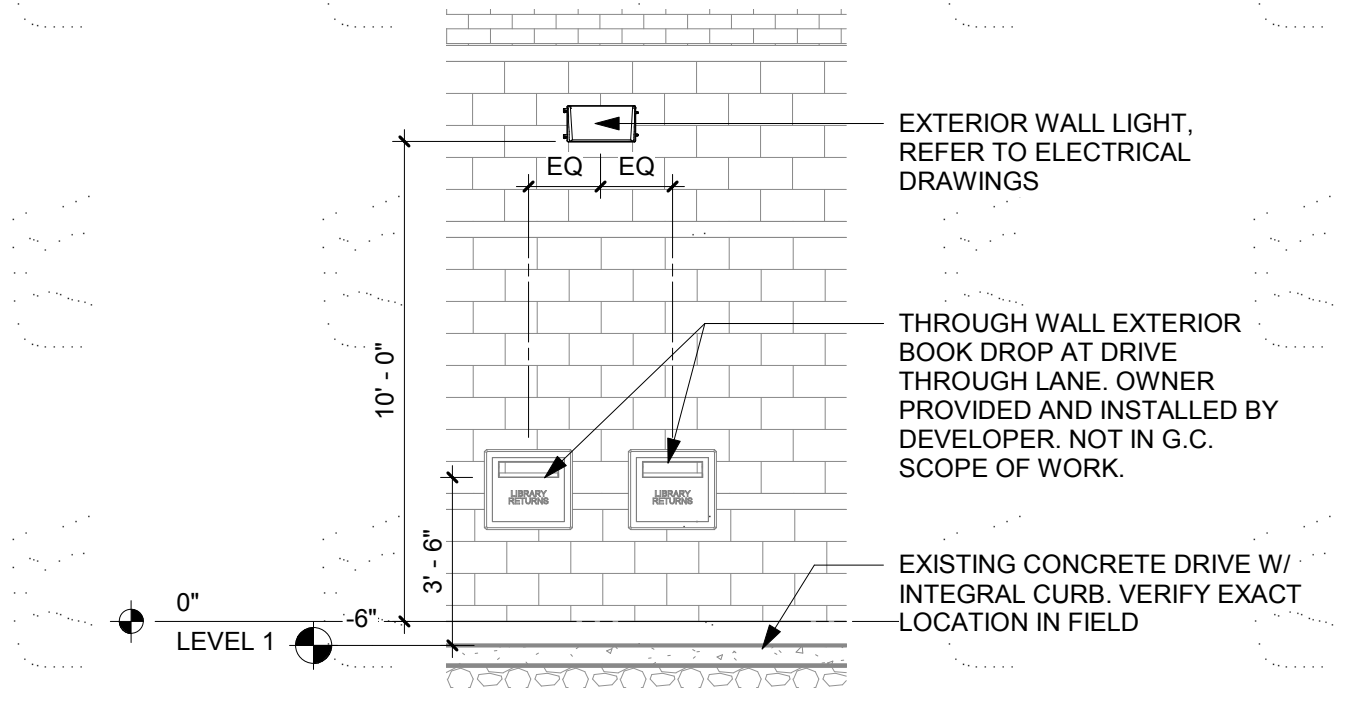
- | # | NOTE |
|---|--|
| 1 | BOOK DROP, OWNER PROVIDED AND INSTALLED BY DEVELOPER. NOT IN G.C. SCOPE OF WORK. |
| 2 | EXTERIOR WALL LIGHT, REFER TO ELECTRICAL DRAWINGS |
| 3 | EXTERIOR SIGN, OWNER PROVIDED AND INSTALLED BY DEVELOPER. NOT IN G.C. SCOPE OF WORK. |



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



2 SOUTH ELEVATION
1/8" = 1'-0"



3 DRIVE THRU BOOK DROP ELEVATION
1/4" = 1'-0"

Key Plan

Revision

Date

City Contract No.

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OPN Project No.

17609000

Sheet Issue Date

BID DOCUMENTS

11/30/2018

Sheet Name

EXTERIOR ELEVATIONS

Sheet Number

A200



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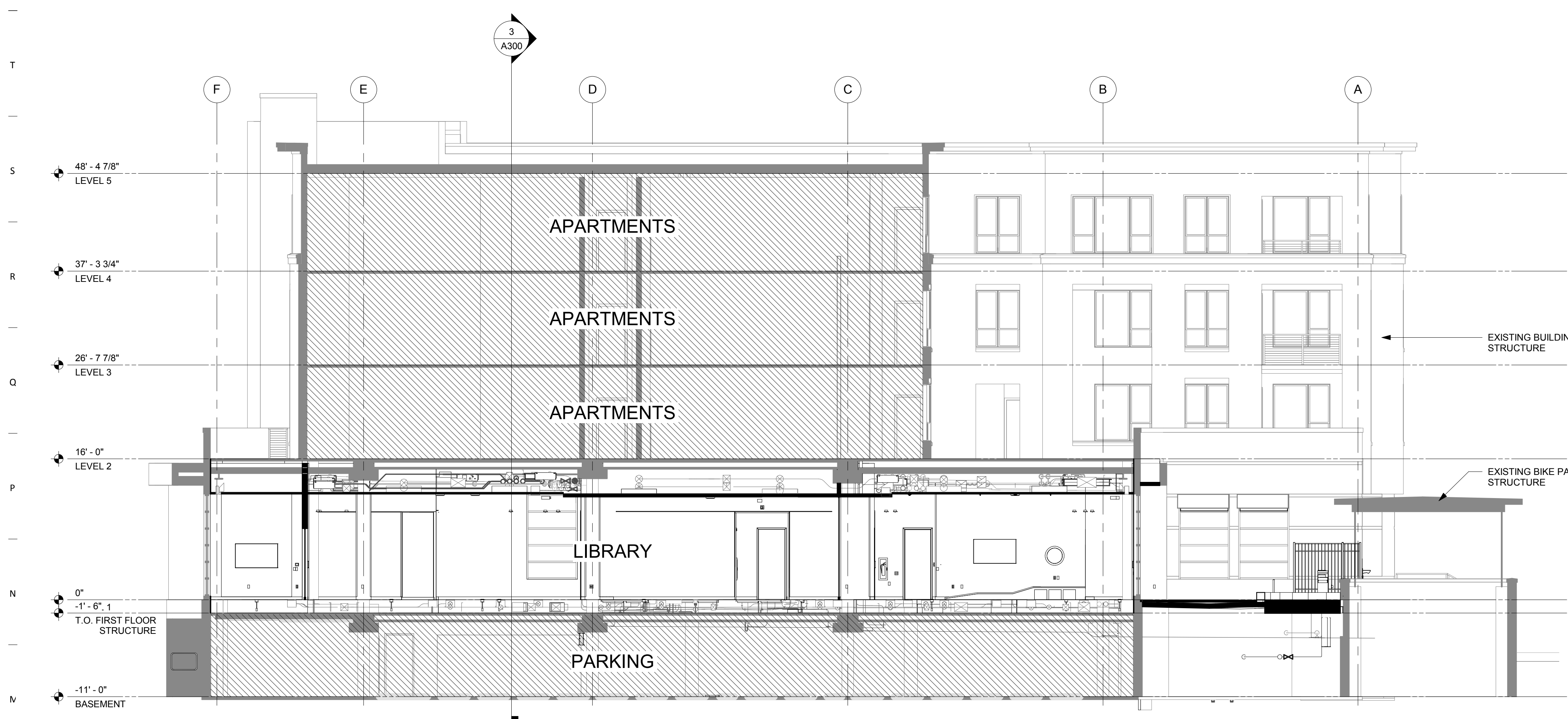
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OPN Project No.
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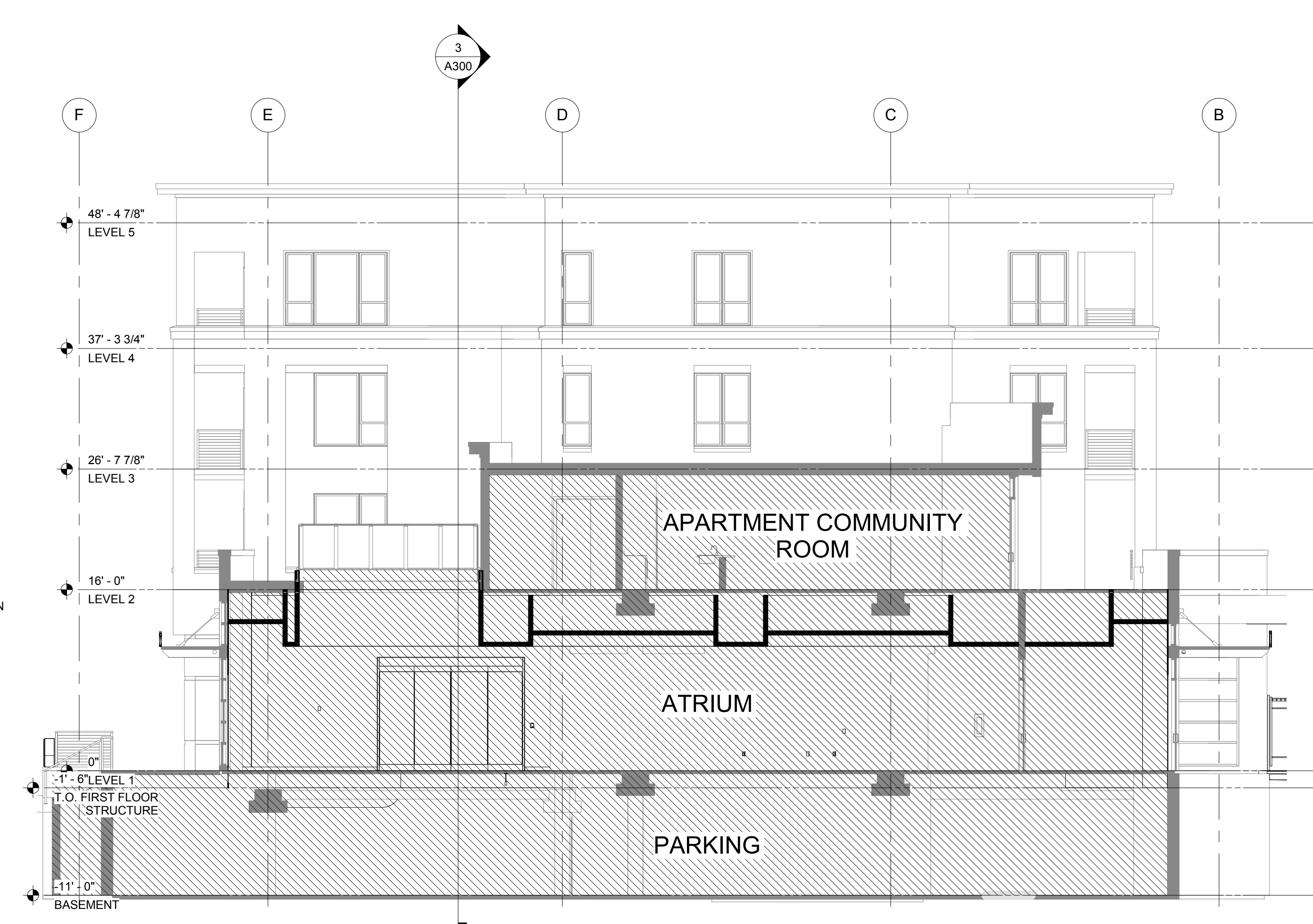
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Sheet Name
BUILDING SECTIONS

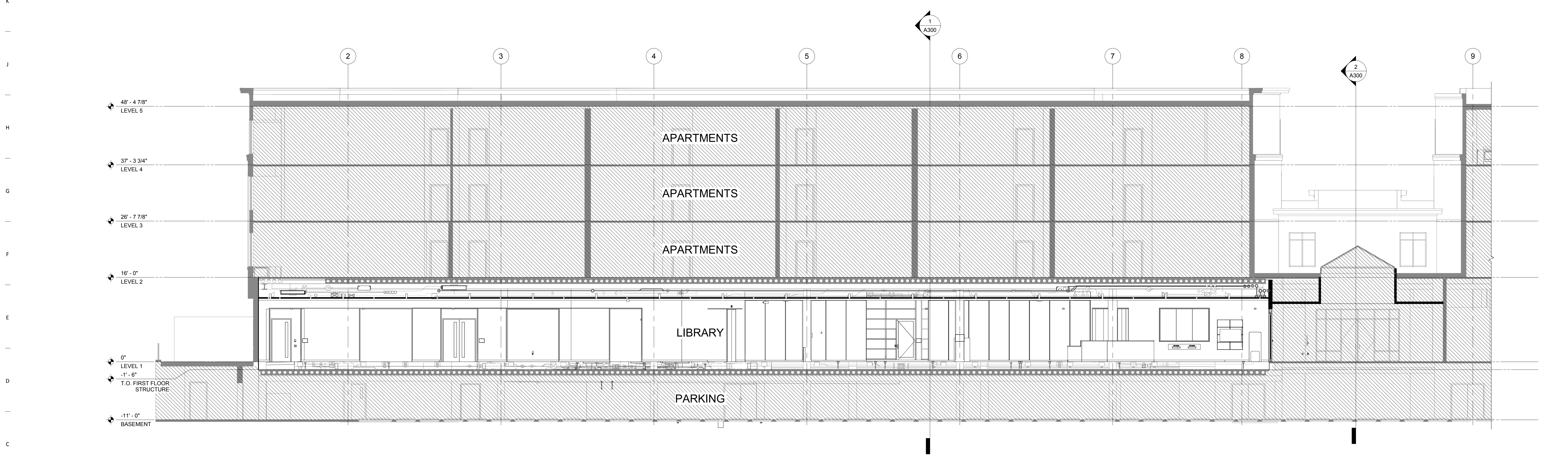
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1 NORTH/SOUTH BUILDING SECTION
1/8" = 1'-0"



2 NORTH/SOUTH ATRIUM BUILDING SECTION
1/8" = 1'-0"



3 EAST/WEST BUILDING SECTION
1/8" = 1'-0"



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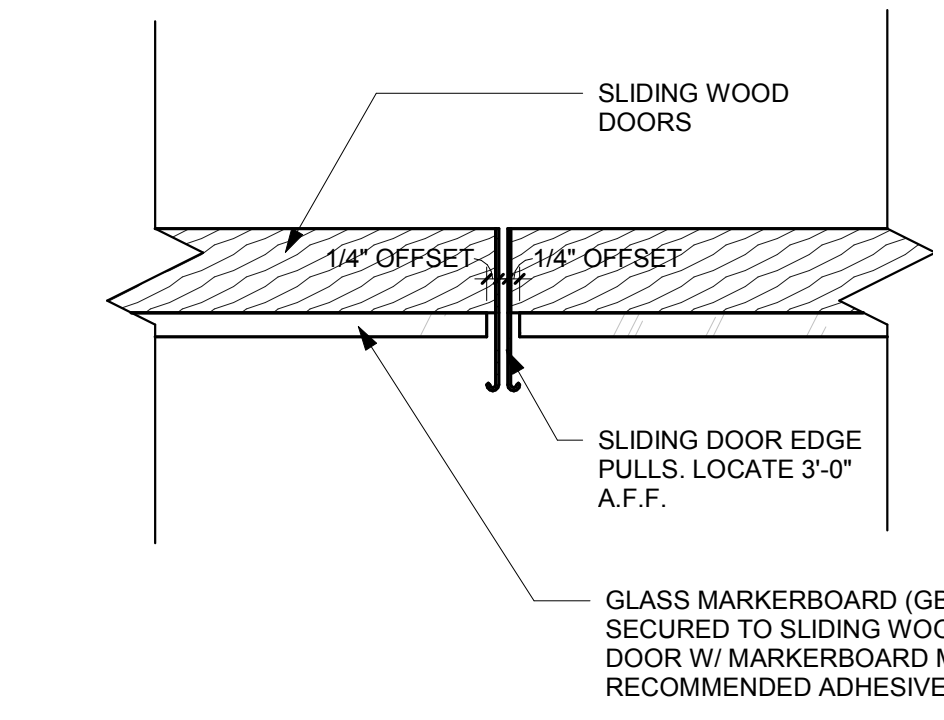
Revision Date

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OPN Project No.
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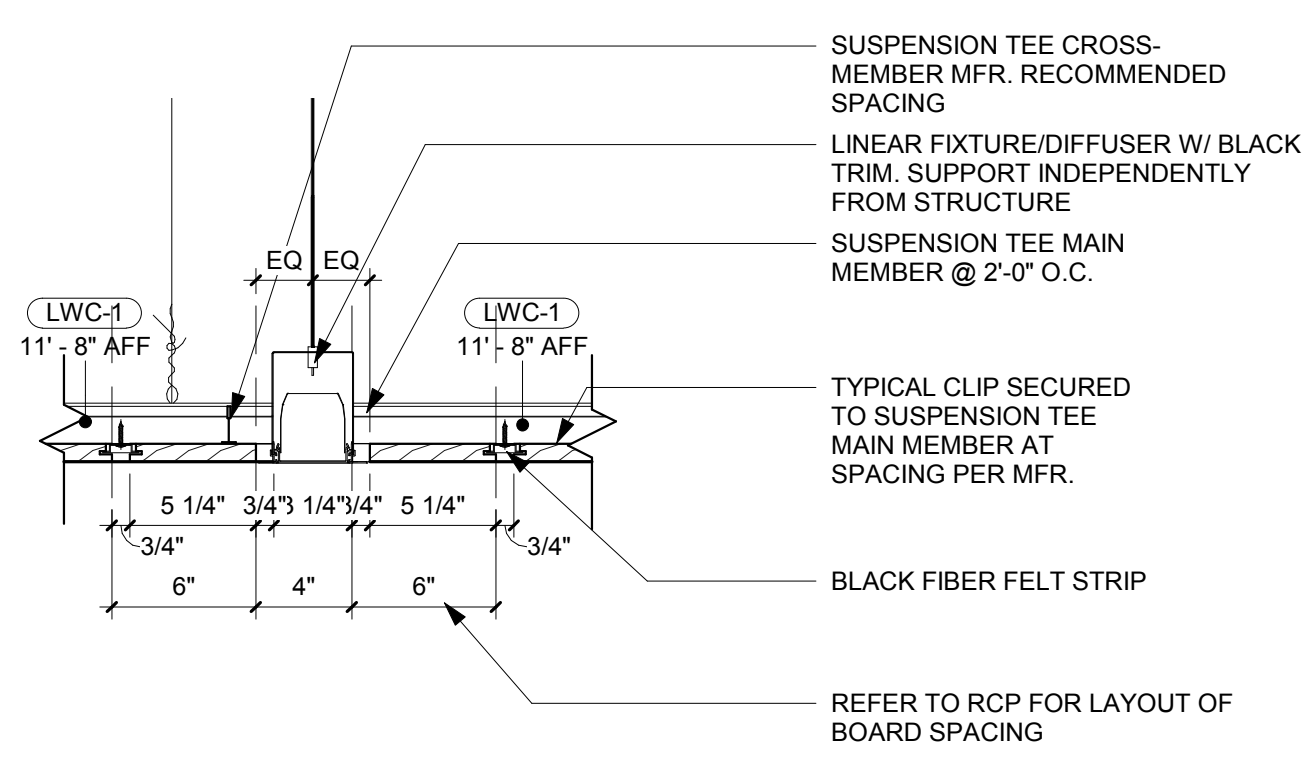
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BID DOCUMENTS 11/30/2018

Sheet Name
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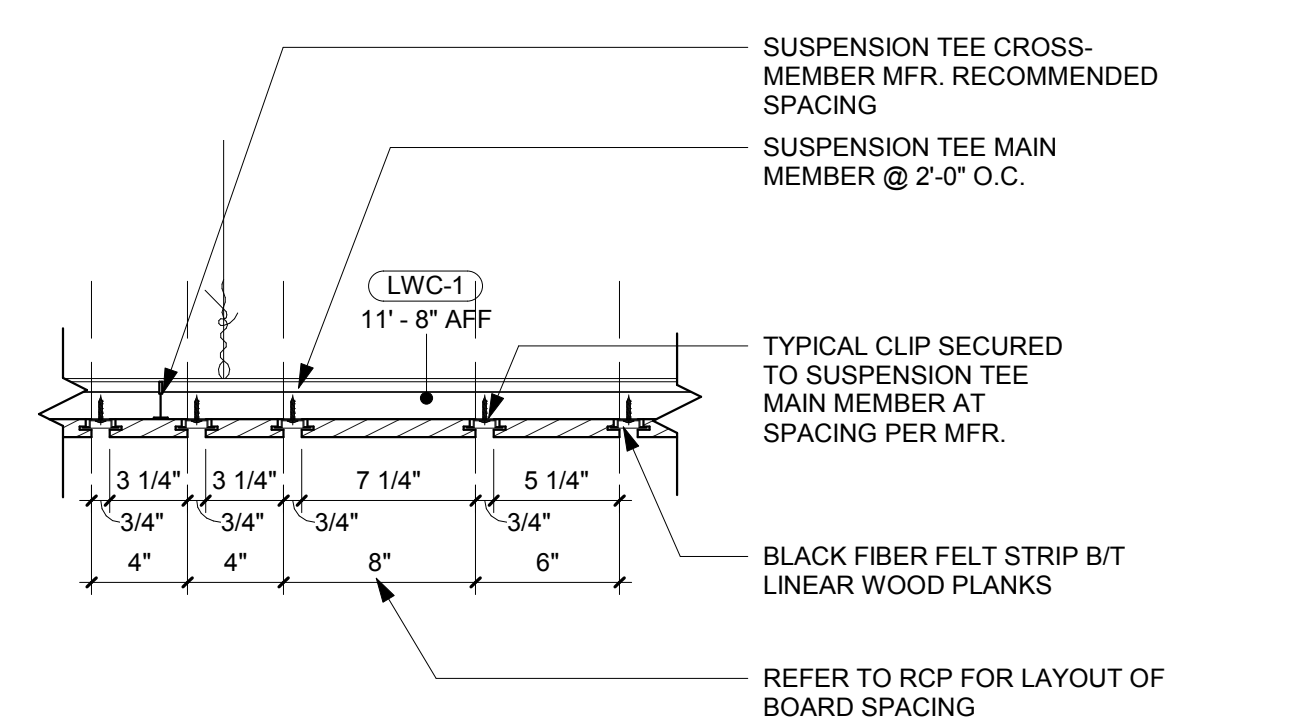
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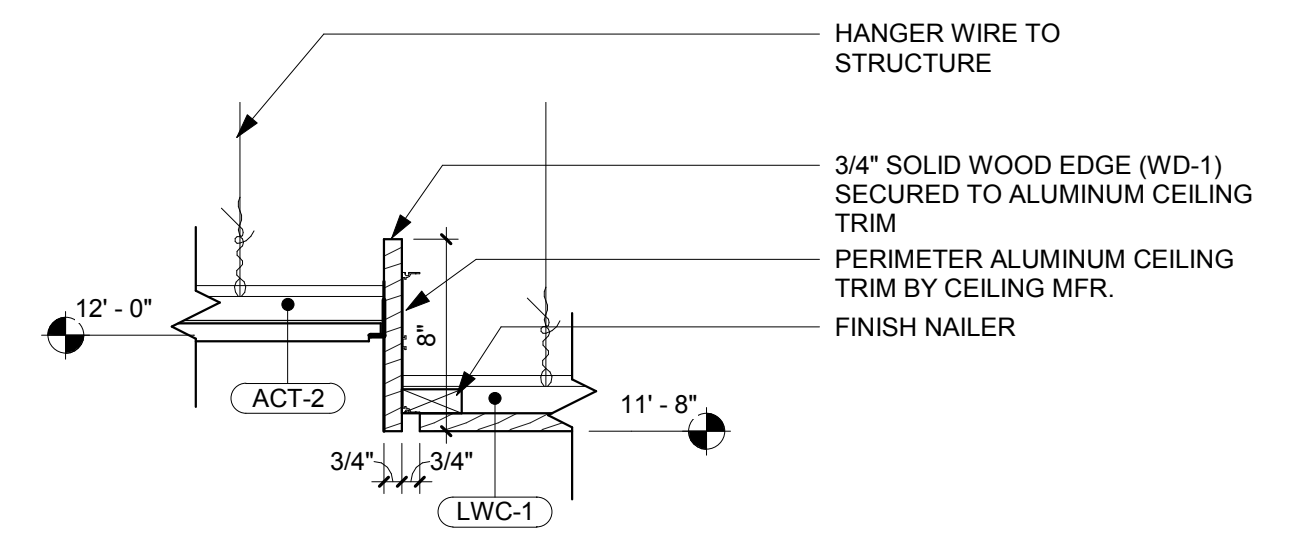
15 SLIDING DOOR PULL
3" = 1'-0"



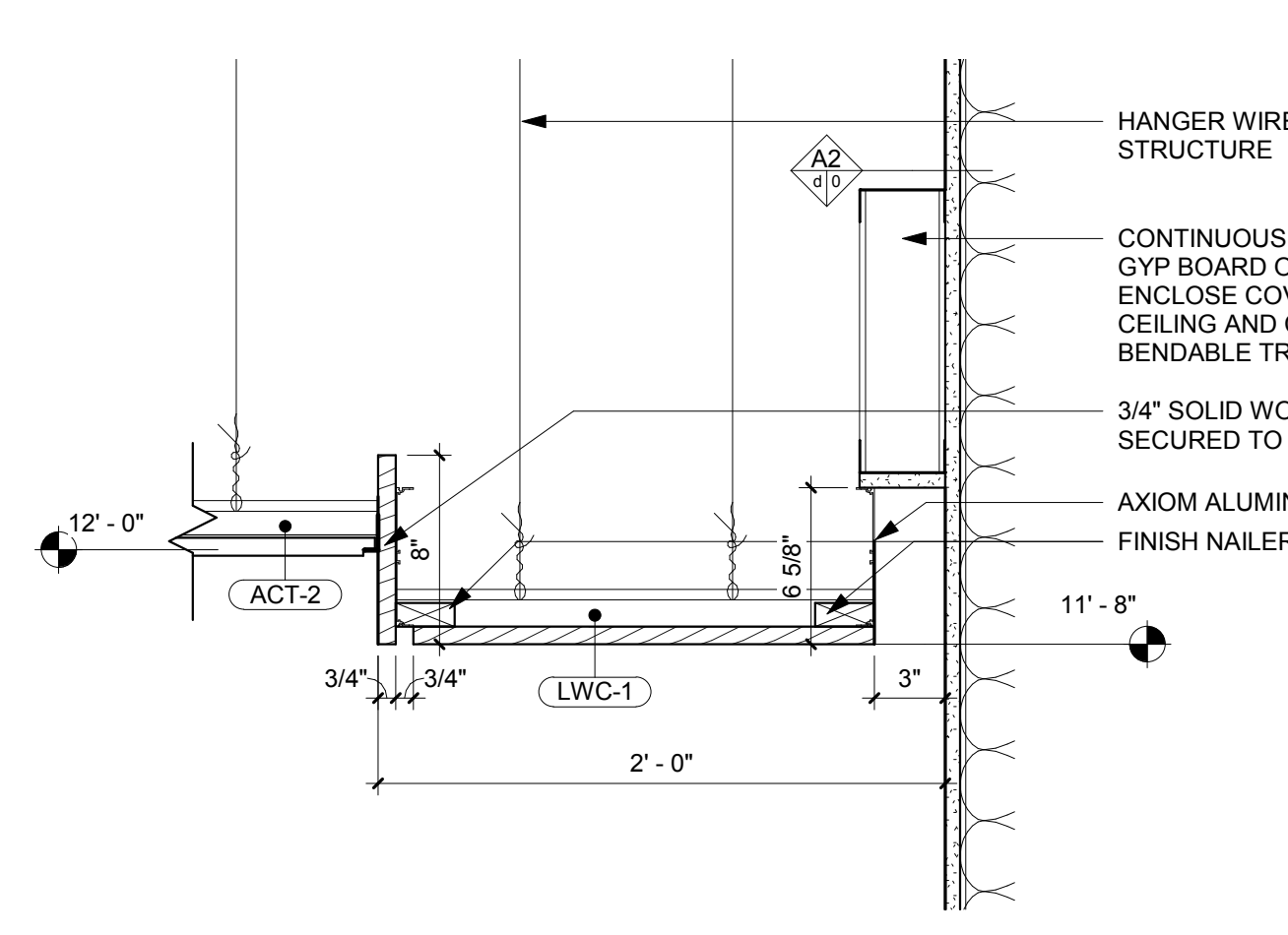
14 WOOD CEILING @ TYP. LIGHT/DIFFUSER
1 1/2" = 1'-0"



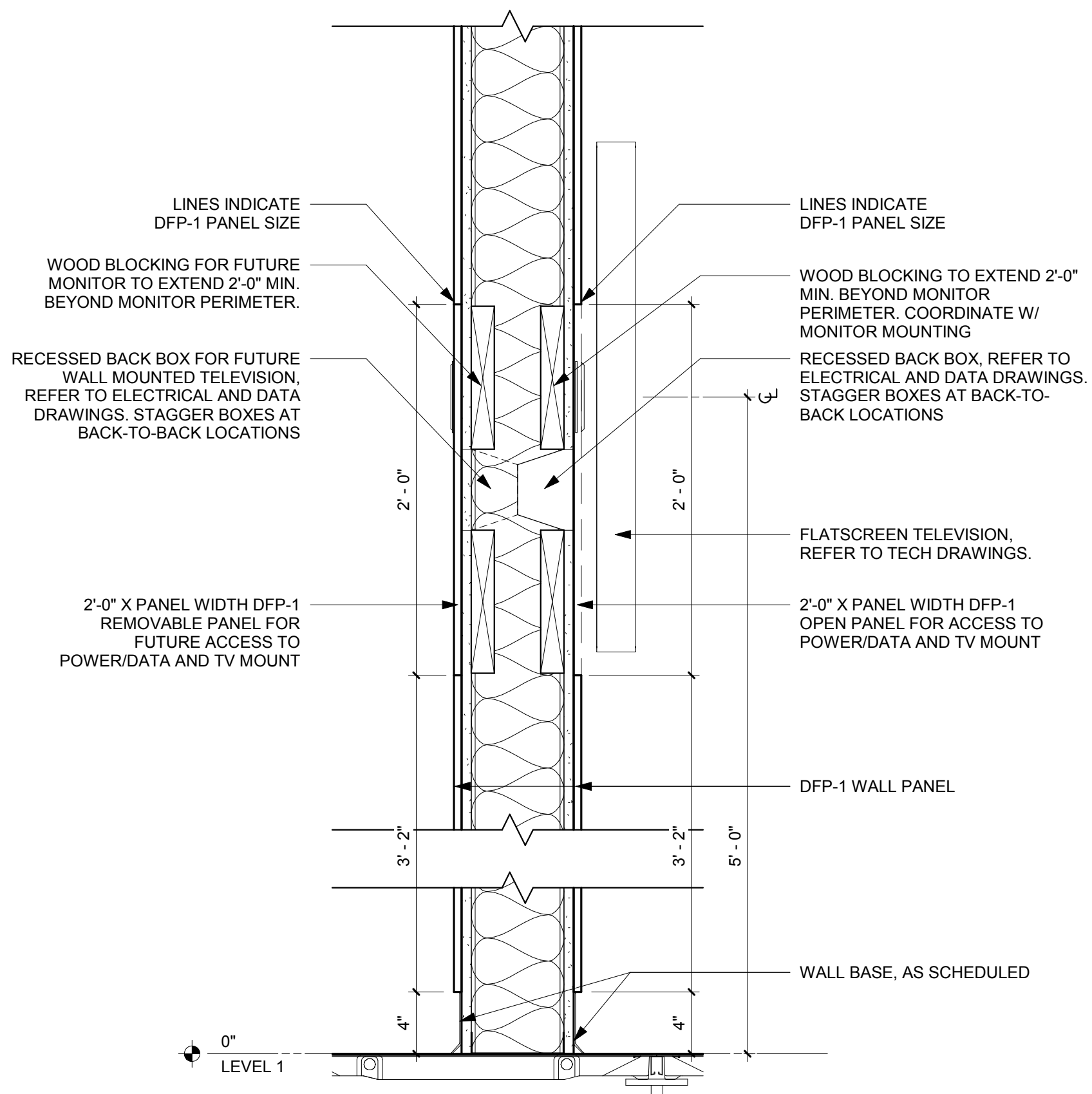
13 WOOD CEILING ATTACHMENT
1 1/2" = 1'-0"



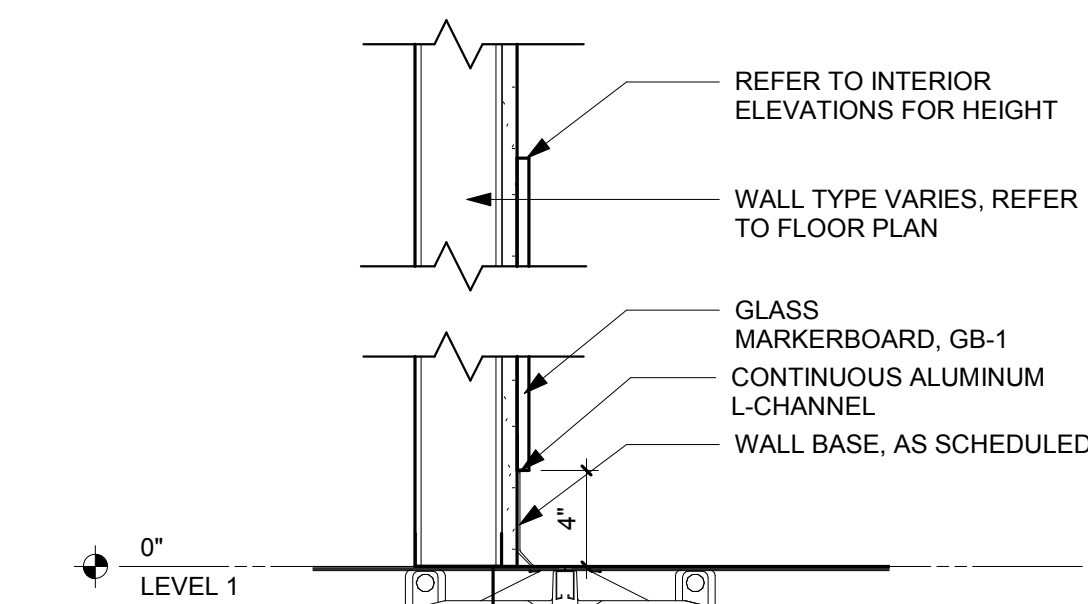
12 WOOD CEILING EDGE TRANSITION @ ACT
1 1/2" = 1'-0"



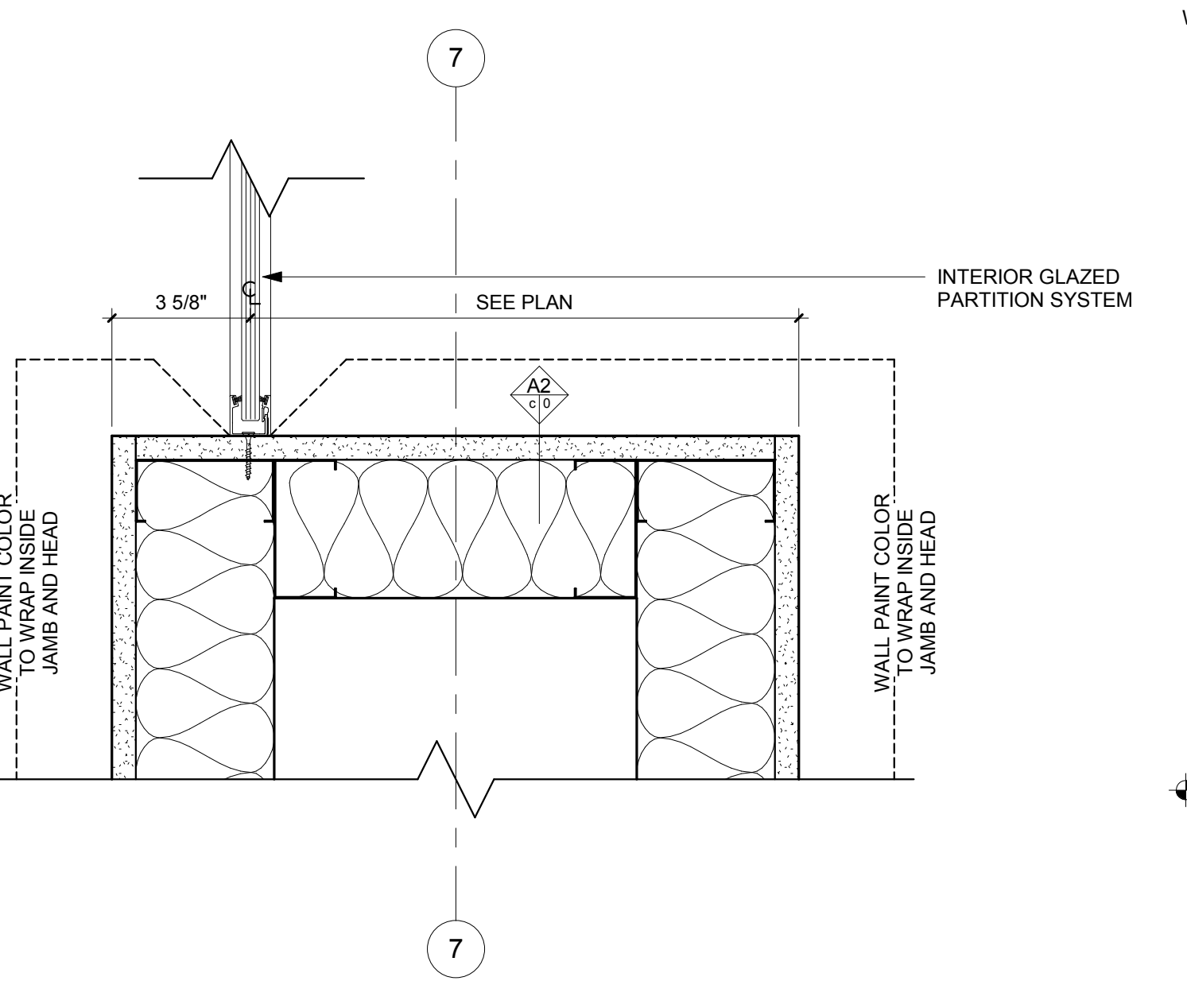
11 WOOD CEILING EDGE DETAIL @ COVE
1 1/2" = 1'-0"



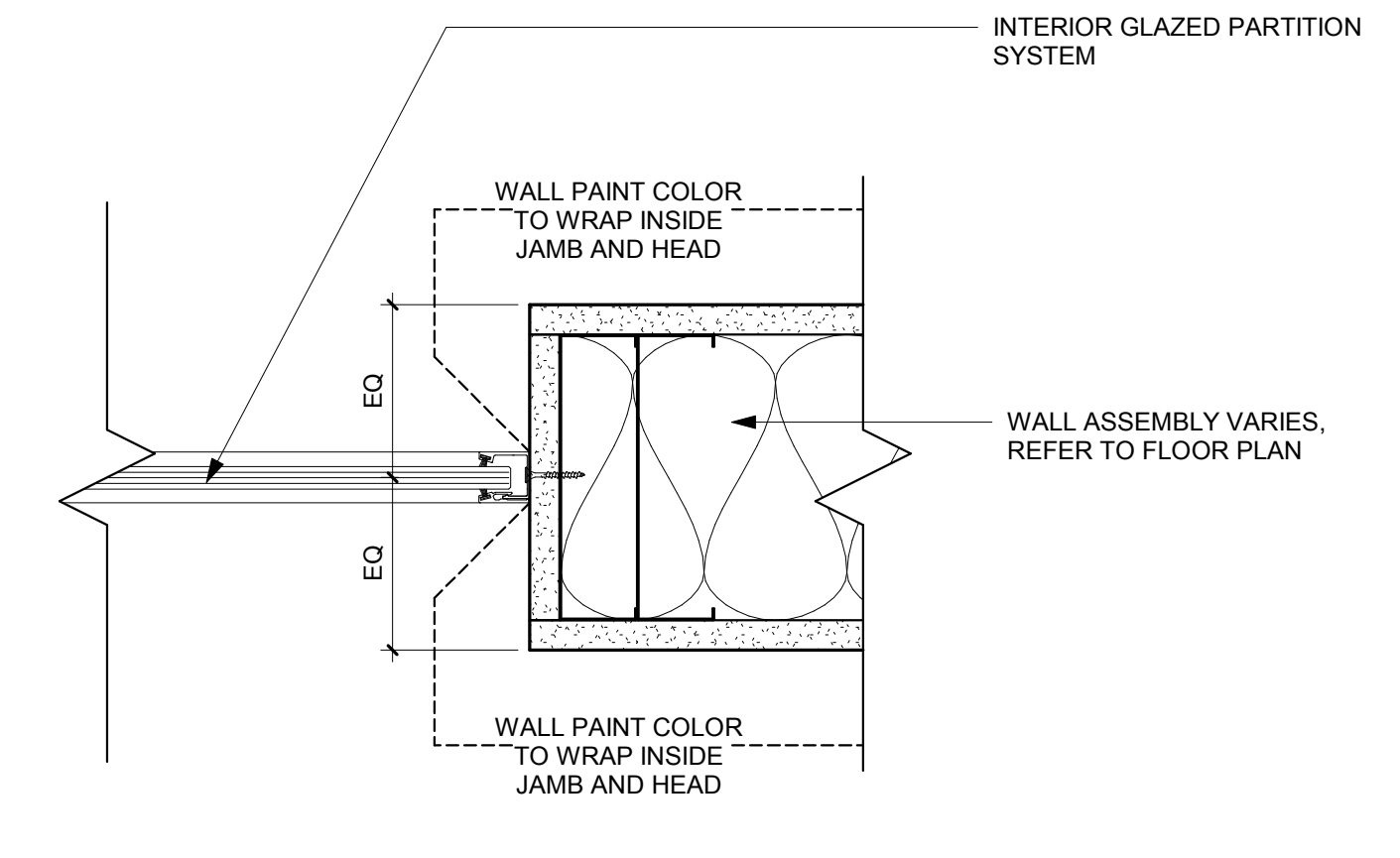
10 WALL MOUNTED MONITOR @ DFP
1 1/2" = 1'-0"



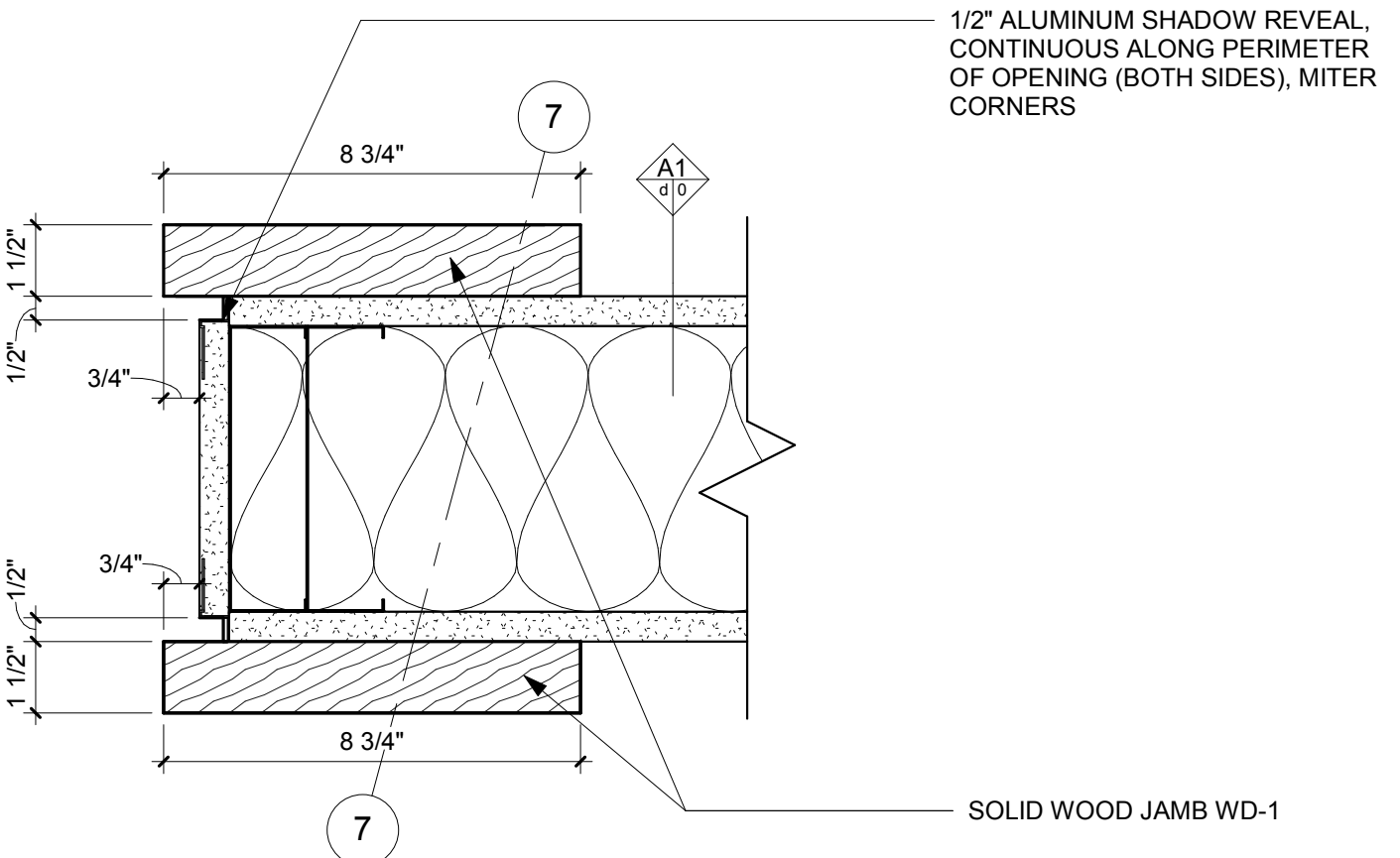
9 WALL MOUNTED BACK-PAINTED MARKERBOARD
1 1/2" = 1'-0"



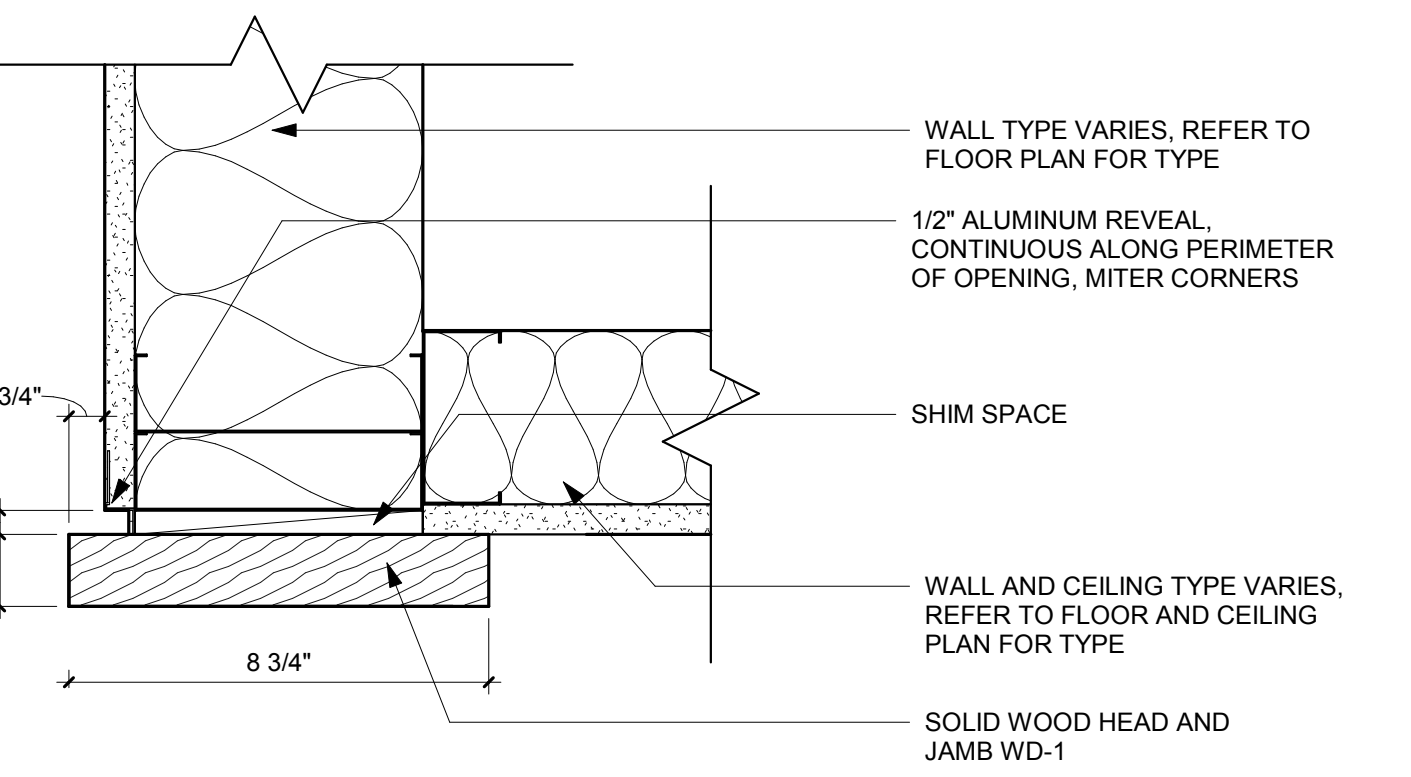
8 INTERIOR GLAZING WIDE JAMB
3" = 1'-0"



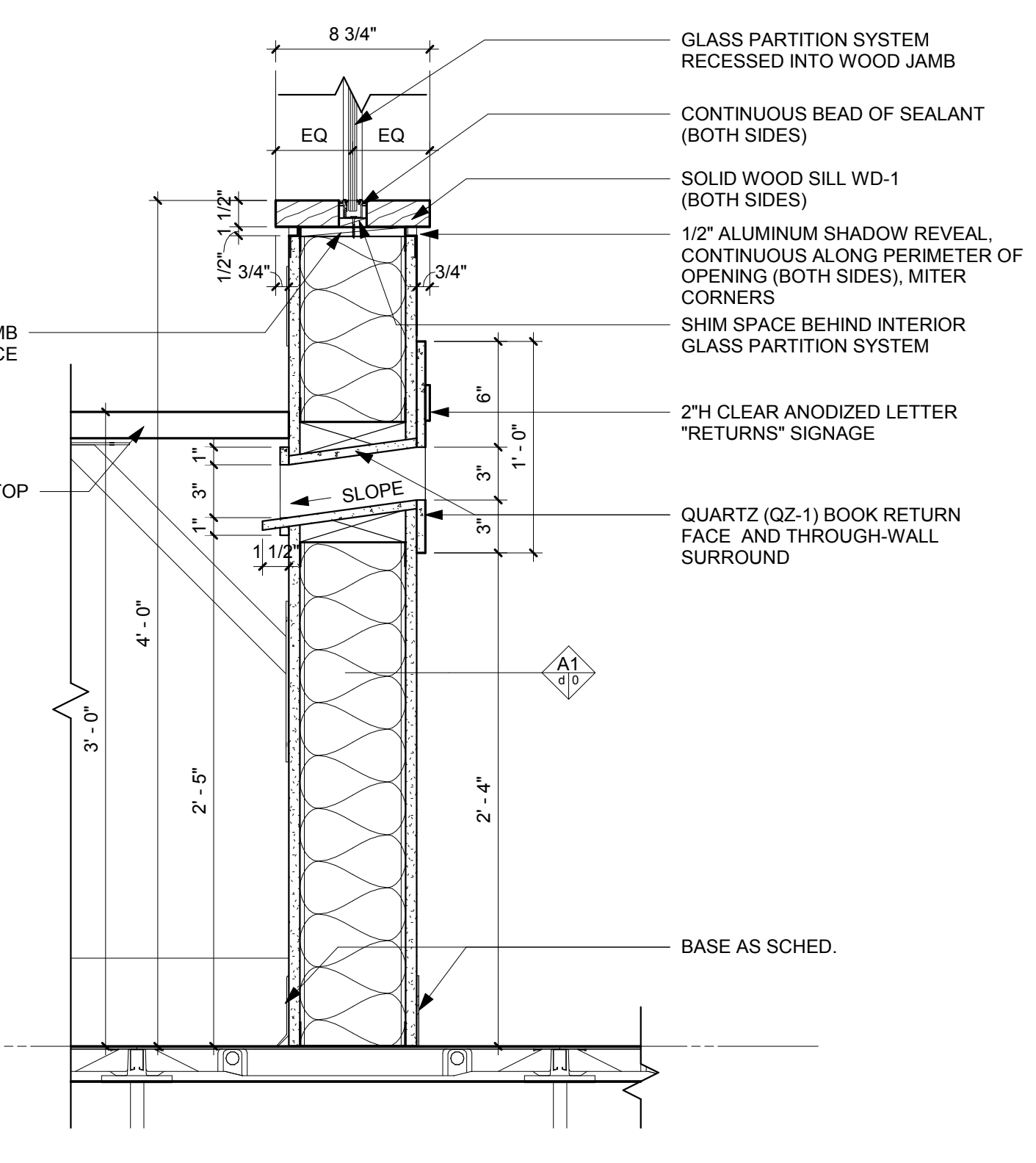
7 INTERIOR GLAZING JAMB
3" = 1'-0"



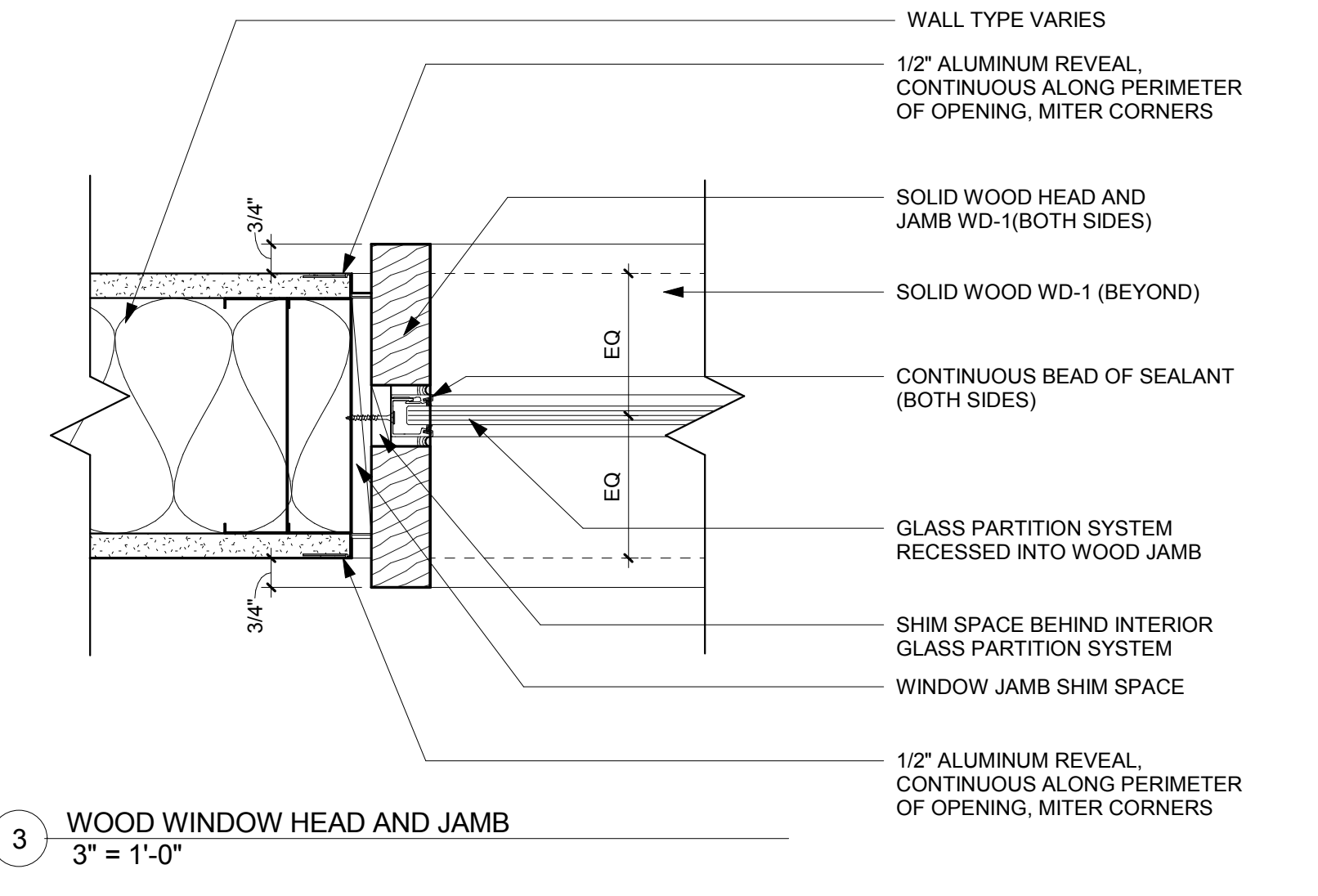
6 WOOD OPENING DOUBLE JAMB
3" = 1'-0"



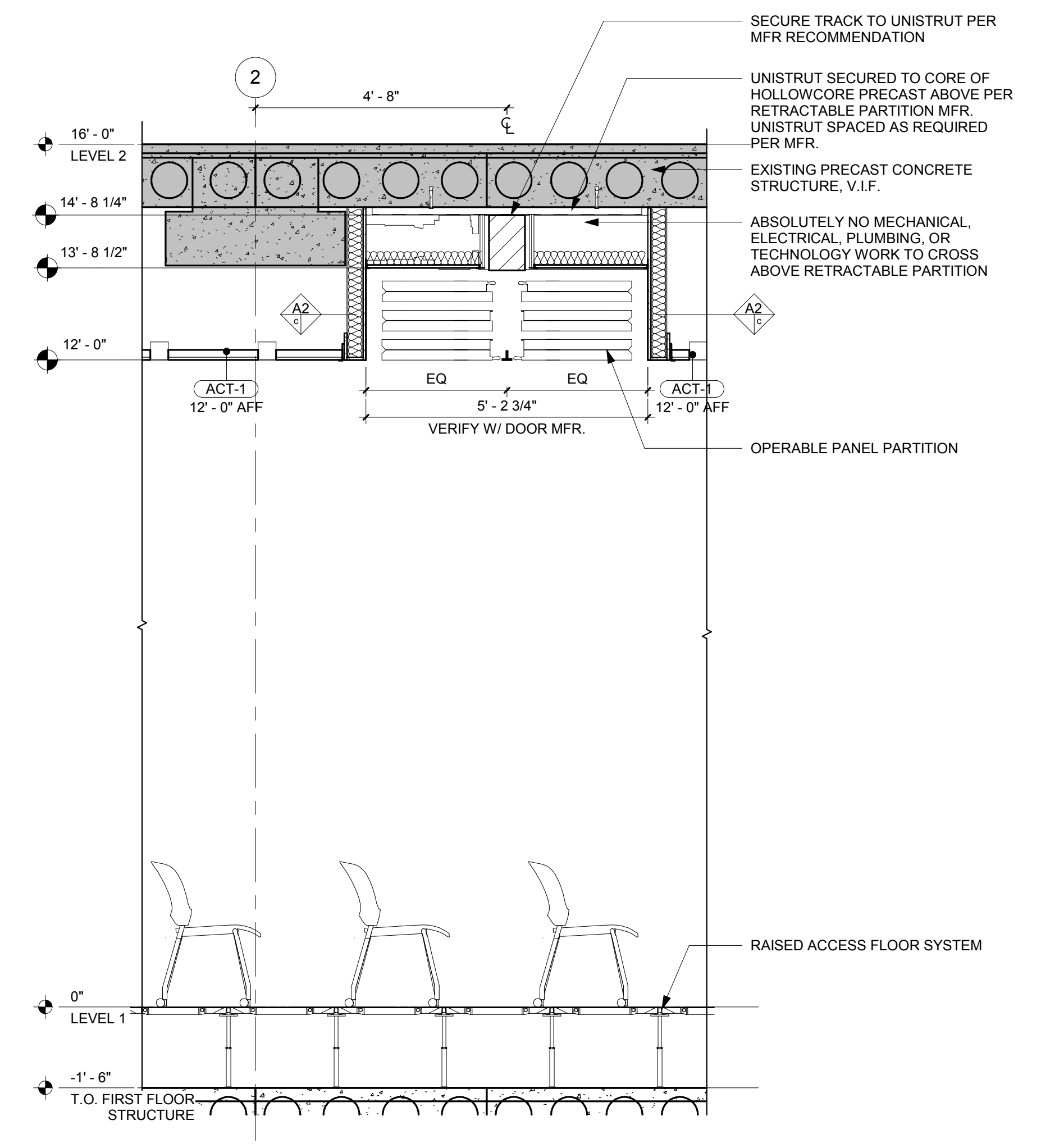
5 WOOD OPENING HEAD AND JAMB
3" = 1'-0"



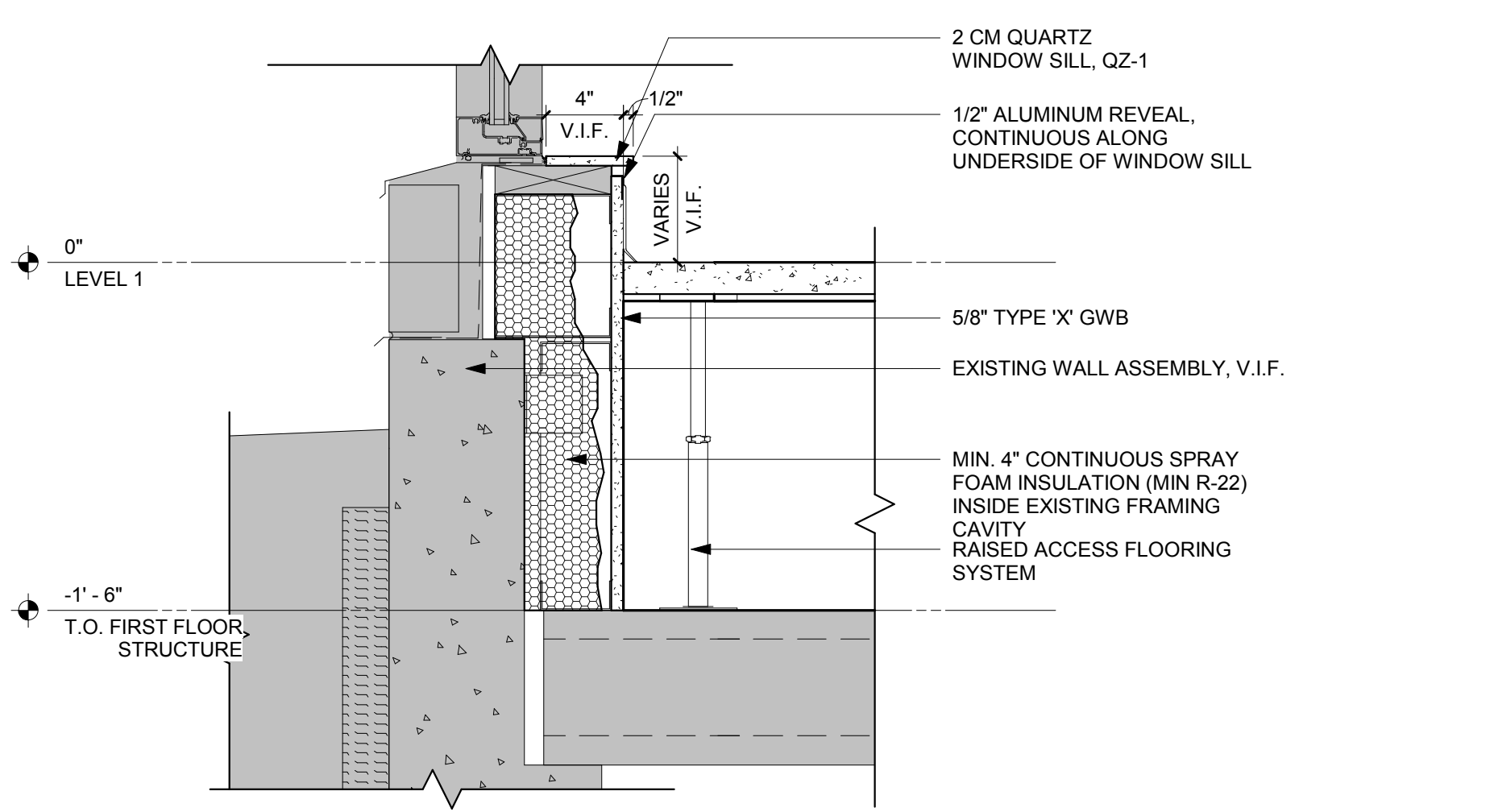
4 INTERIOR BOOK DROP
1 1/2" = 1'-0"



3 WOOD WINDOW HEAD AND JAMB
3" = 1'-0"



2 RETRACTABLE ROOM DIVIDER
1/2" = 1'-0"



1 EXTERIOR STOREFRONT WINDOW SILL
1 1/2" = 1'-0"



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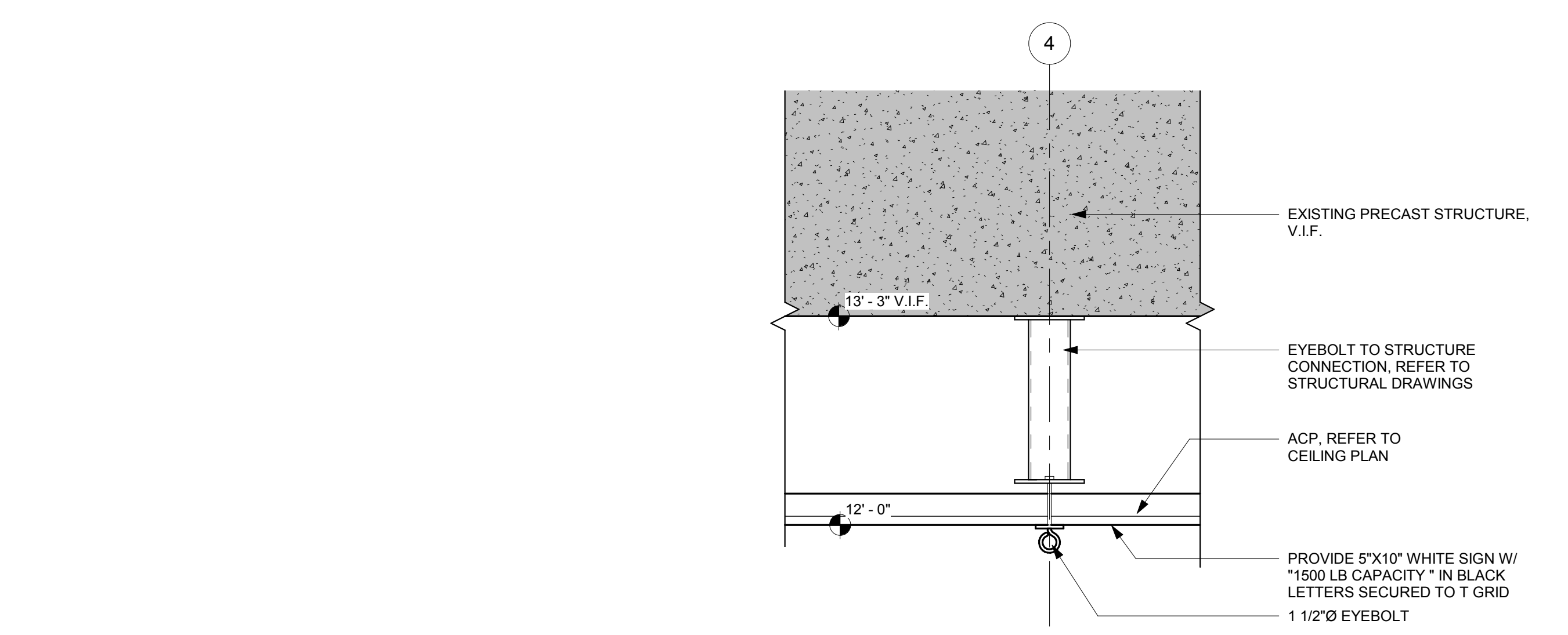
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OPN Project No.
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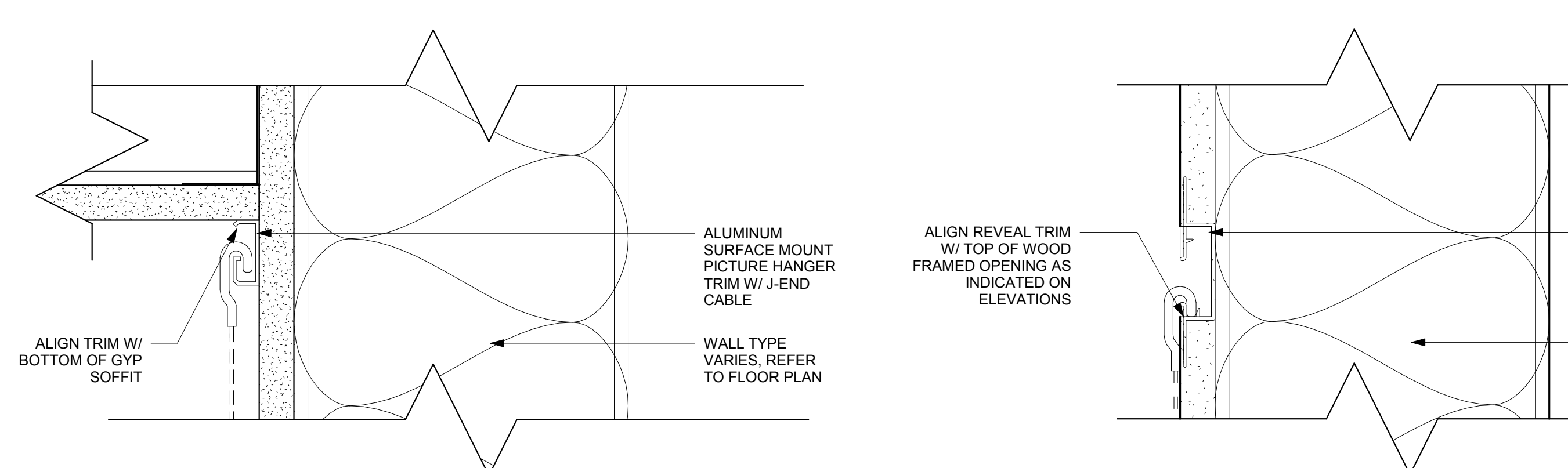
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BID DOCUMENTS 11/30/2018

Sheet Name
DETAILS

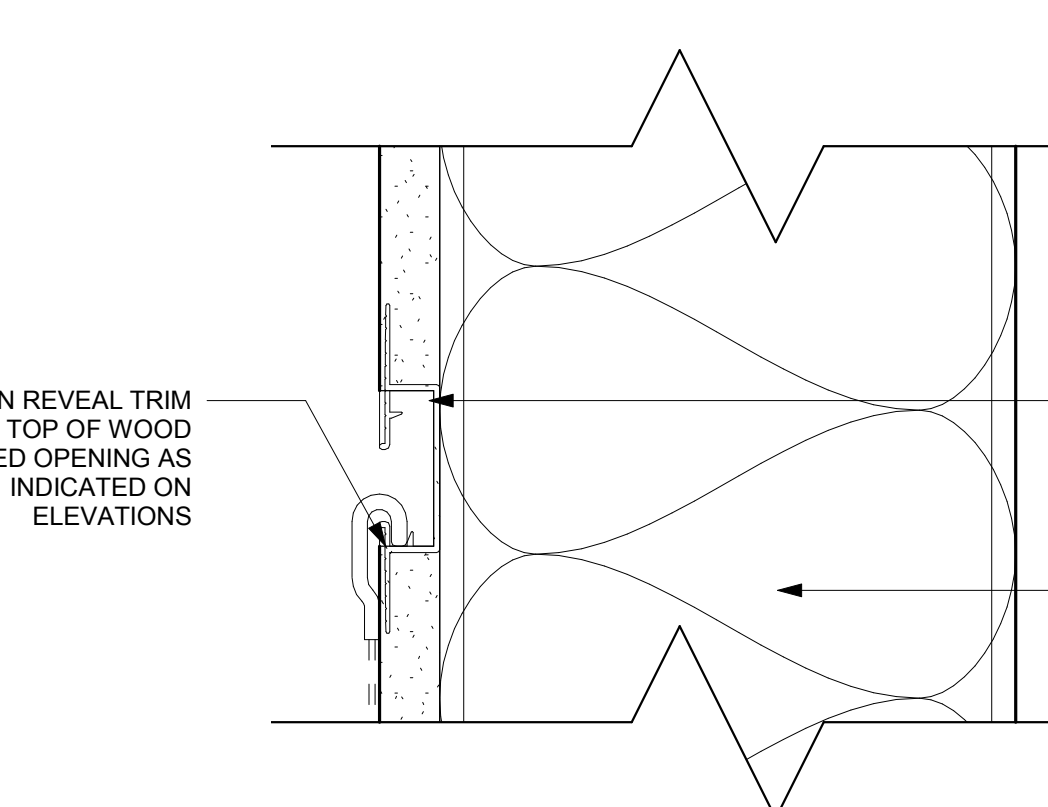
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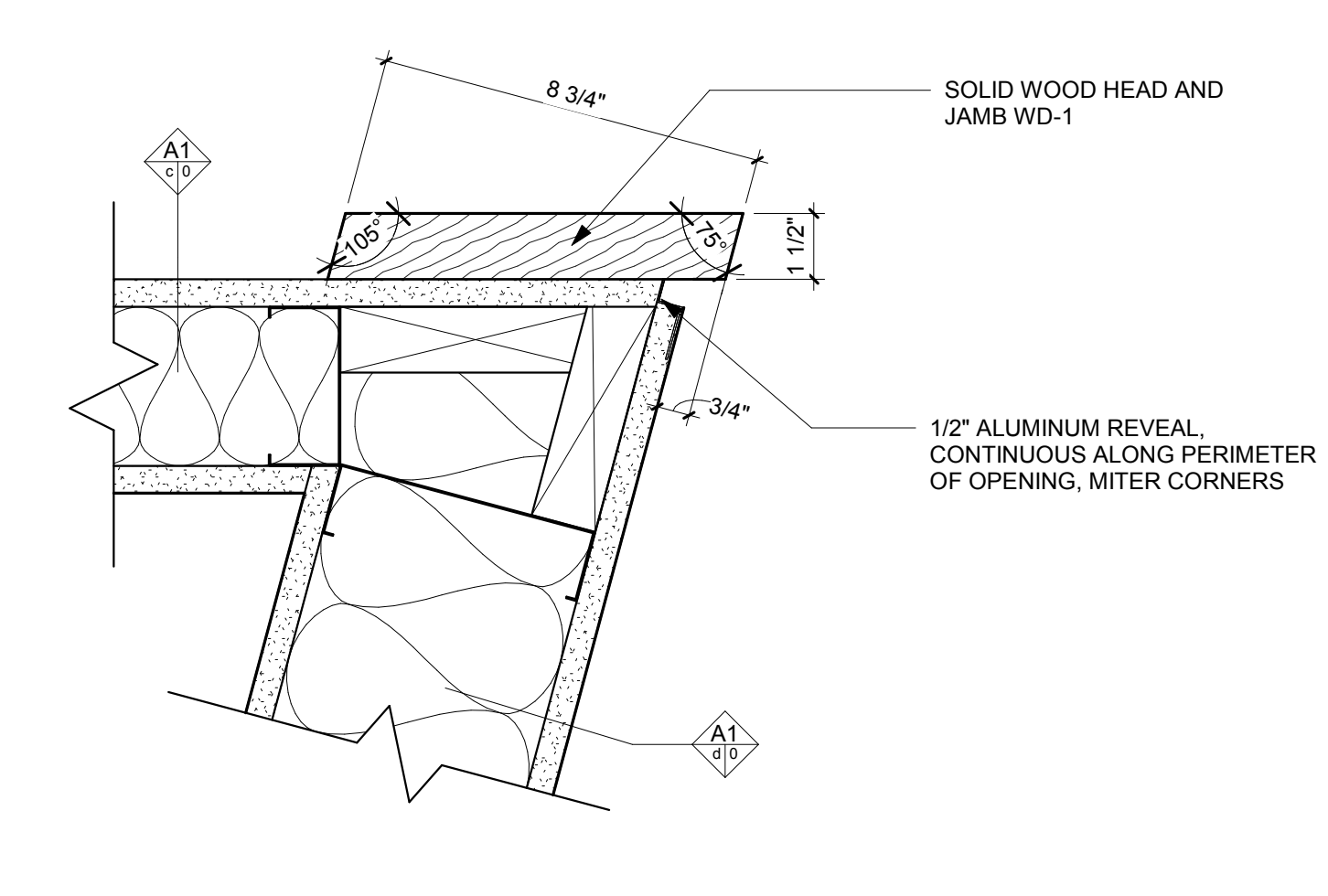
12 CEILING MOUNTED EYEBOLT
1 1/2" = 1'-0"



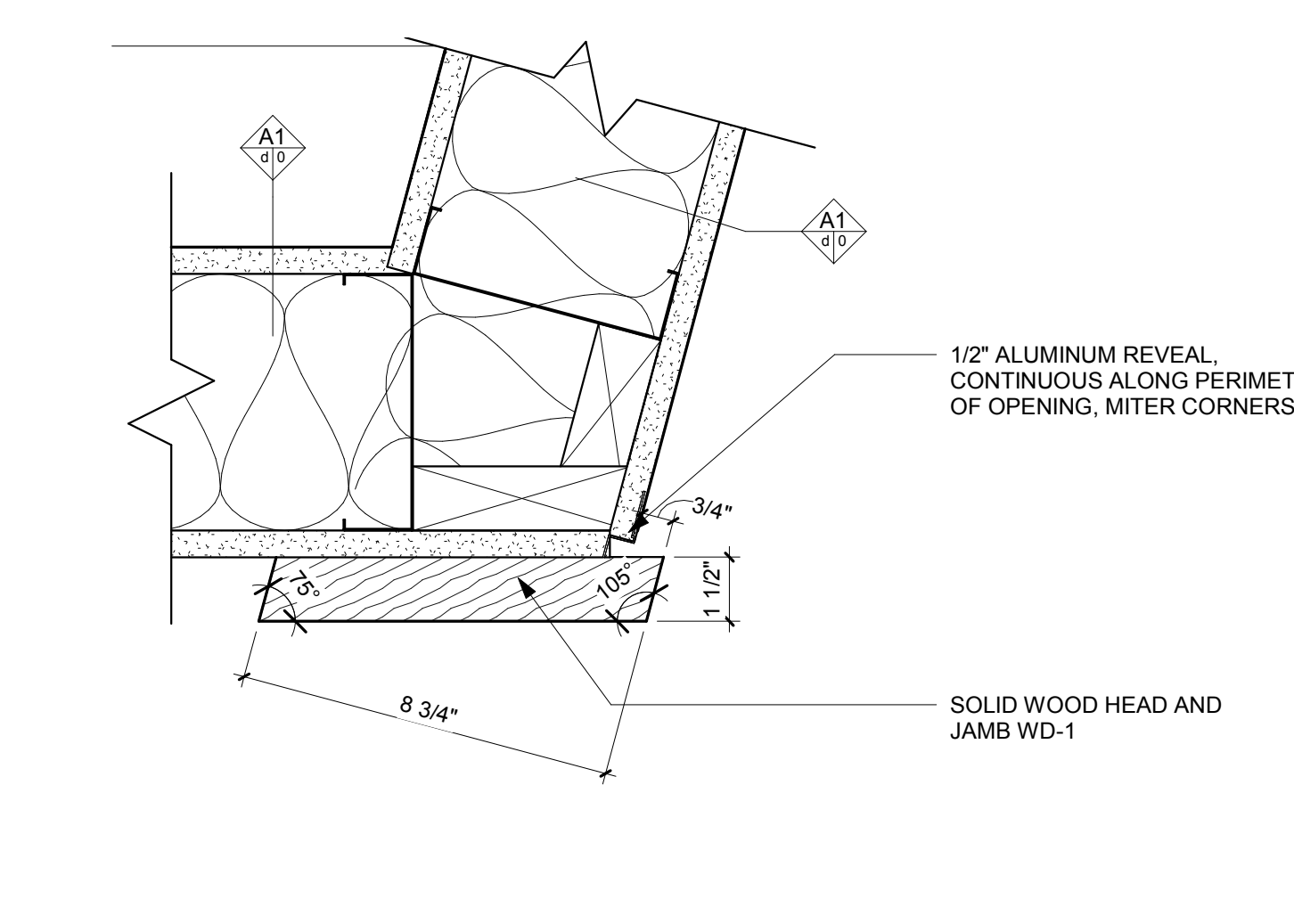
11.2 SURFACE MOUNT PICTURE HANGER TRIM
6" = 1'-0"



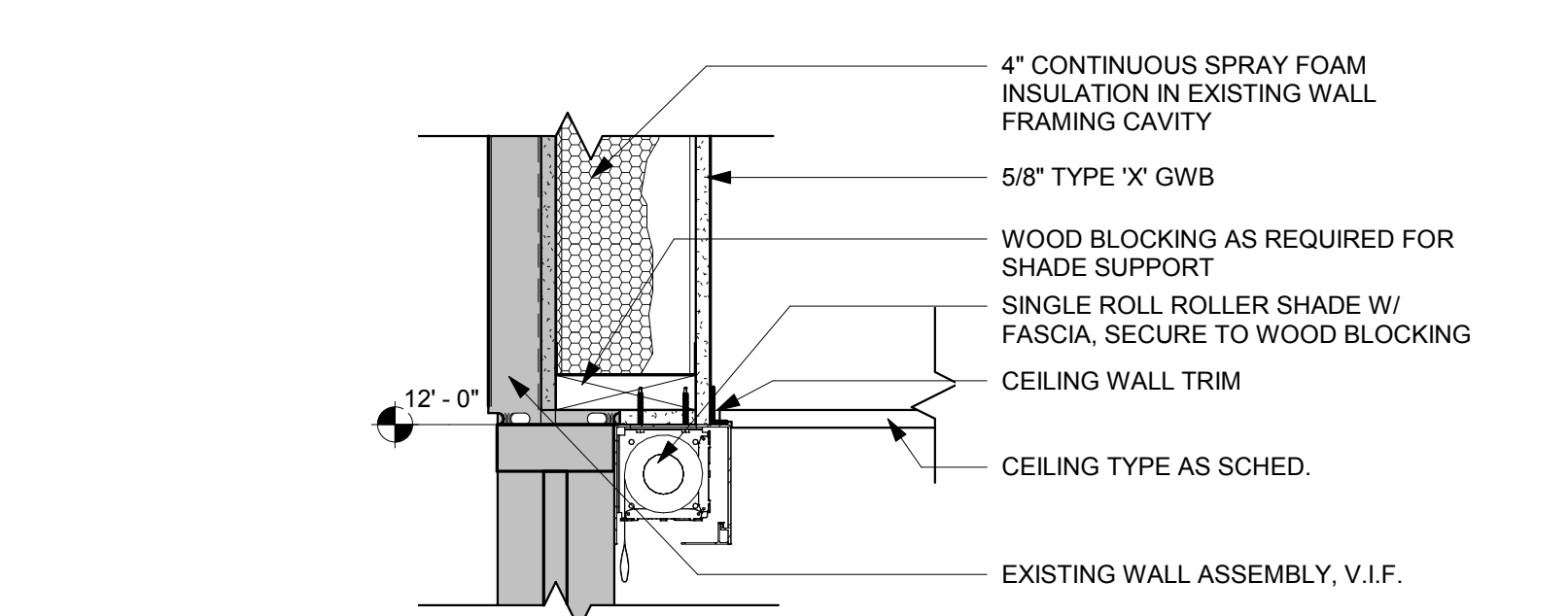
11.1 REVEAL/PICTURE HANGER TRIM
6" = 1'-0"



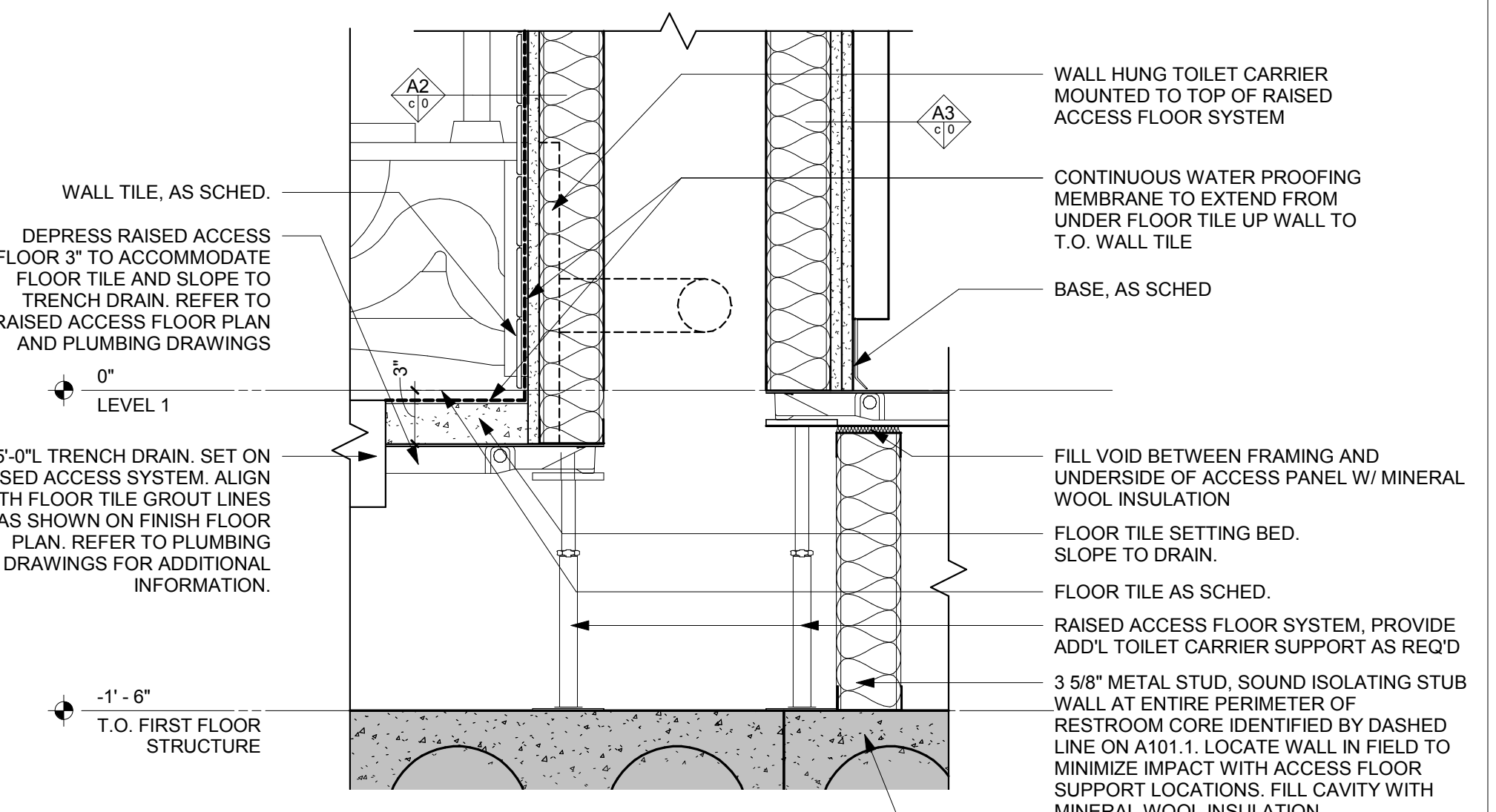
8 WOOD ANGLED OPENING JAMB 2
3" = 1'-0"



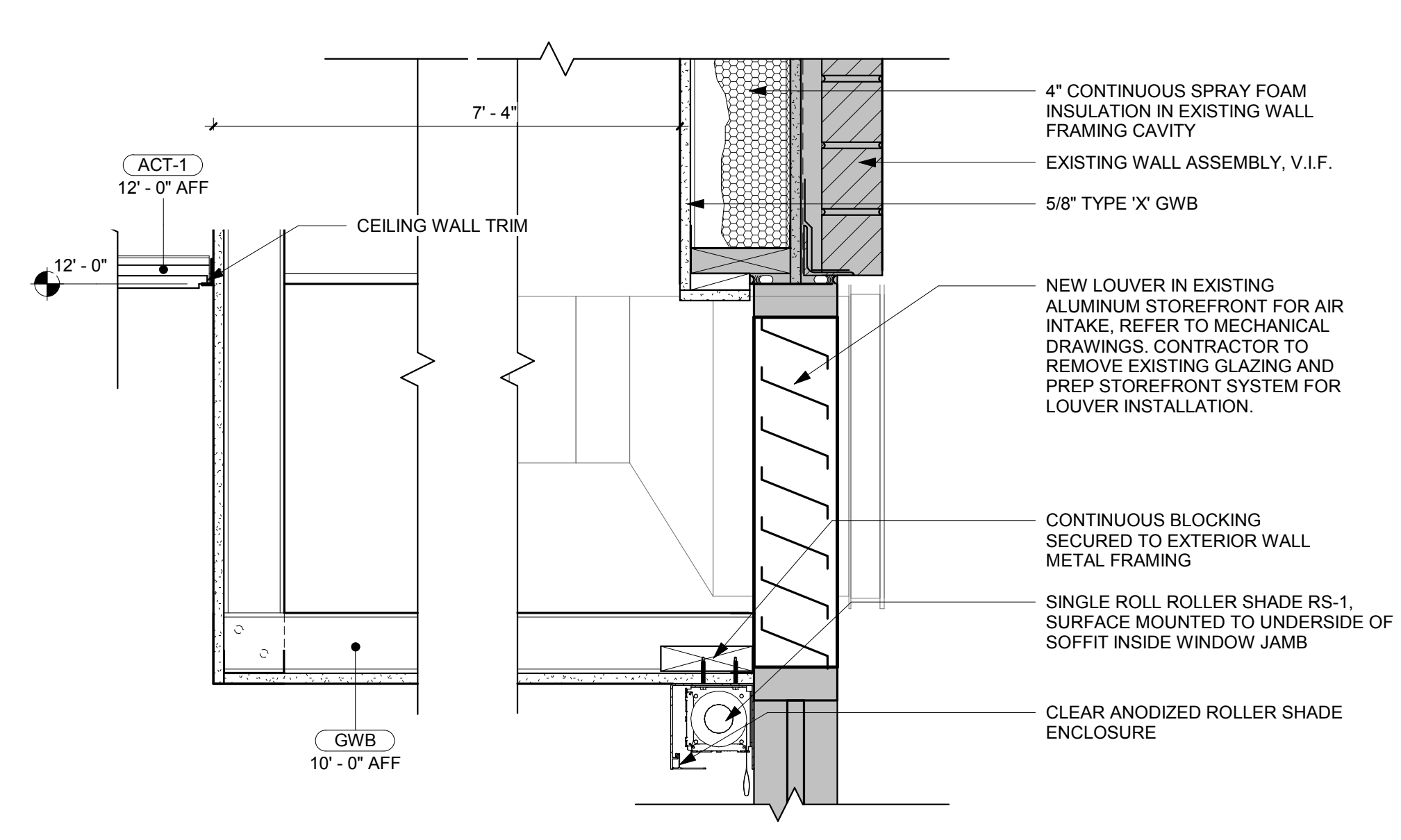
7 WOOD ANGLED OPENING JAMB 1
3" = 1'-0"



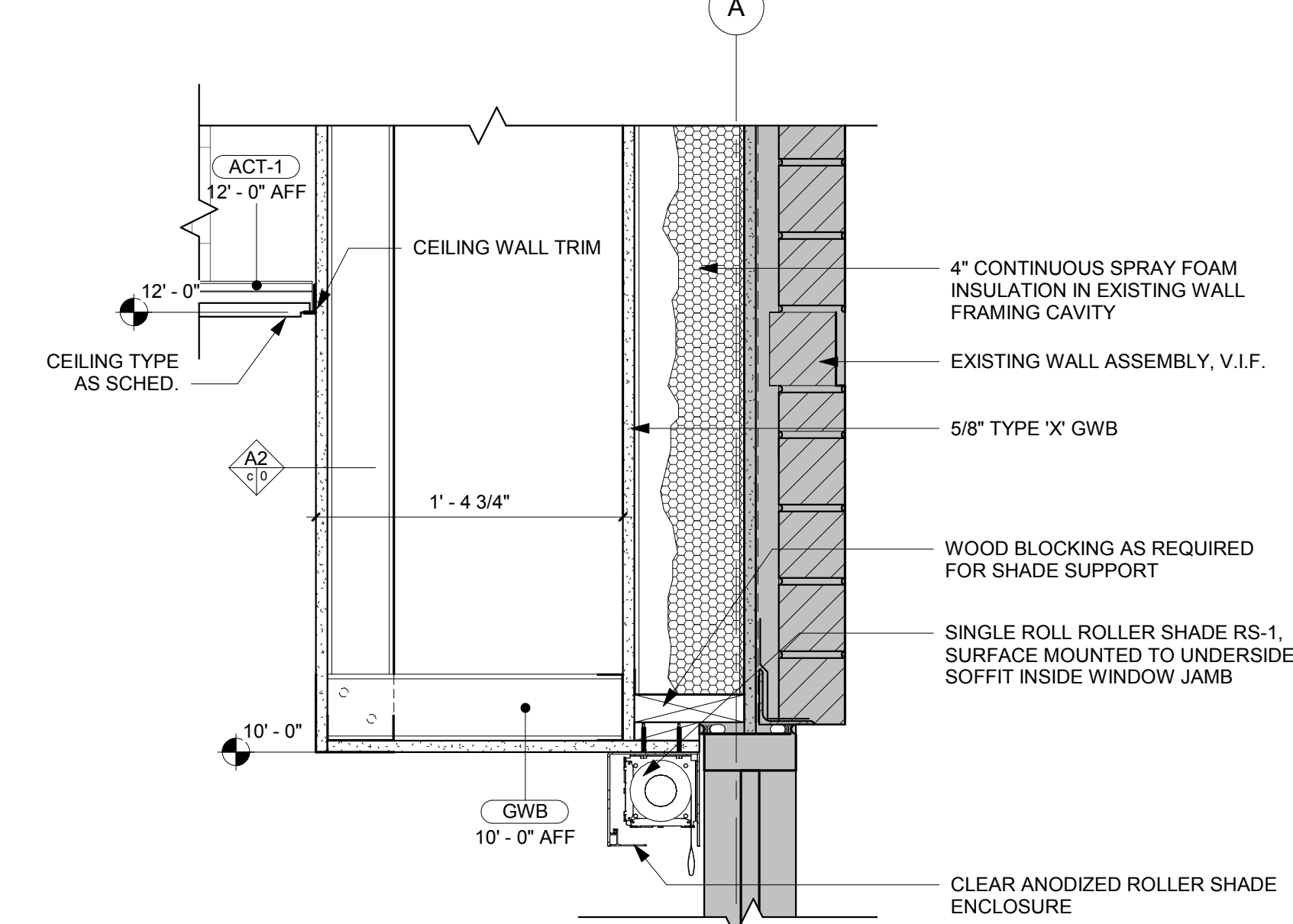
4 SINGLE ROLL ROLLER SHADE POCKET
1 1/2" = 1'-0"



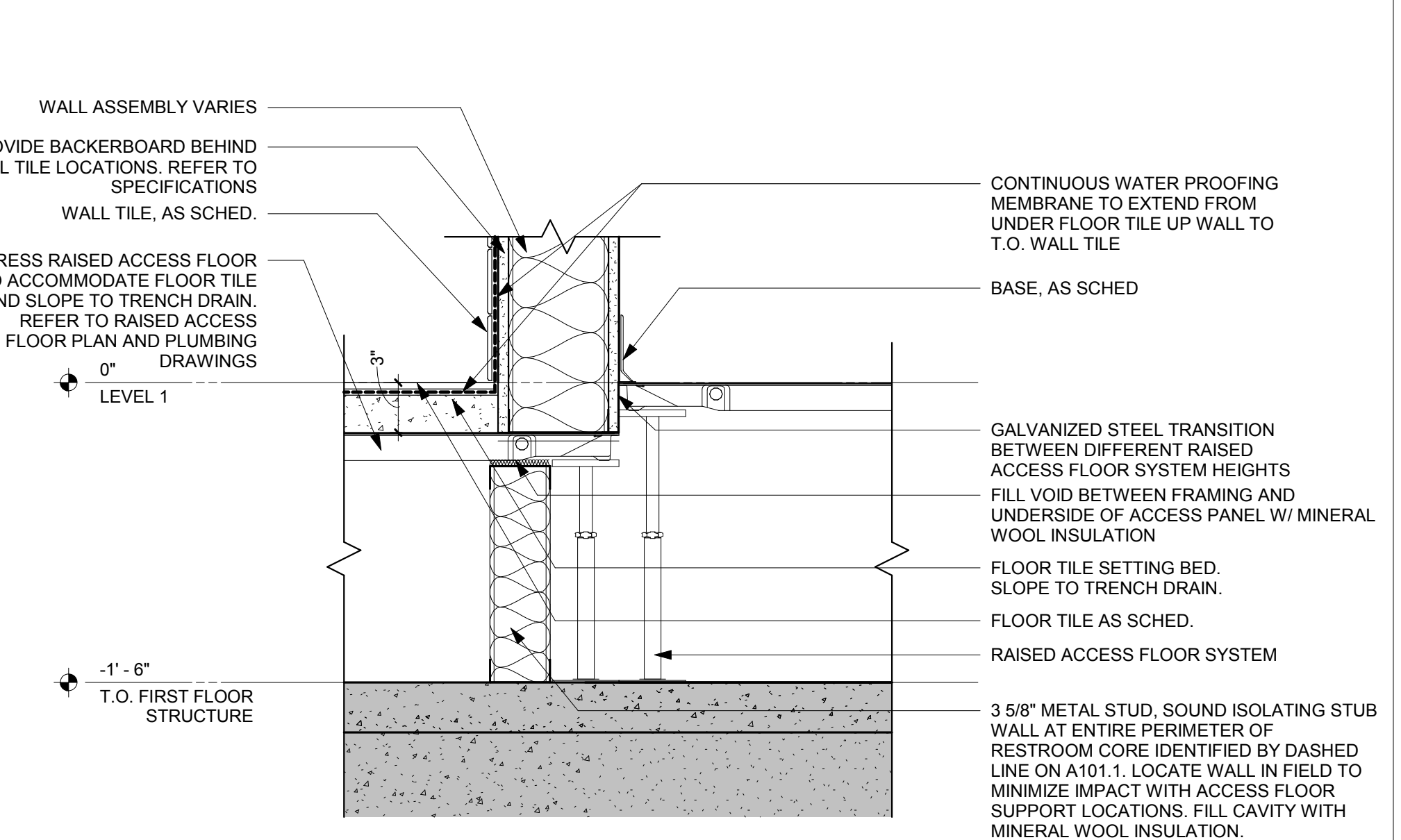
3 RAISED ACCESS FLOOR TOILET CHASE
1 1/2" = 1'-0"



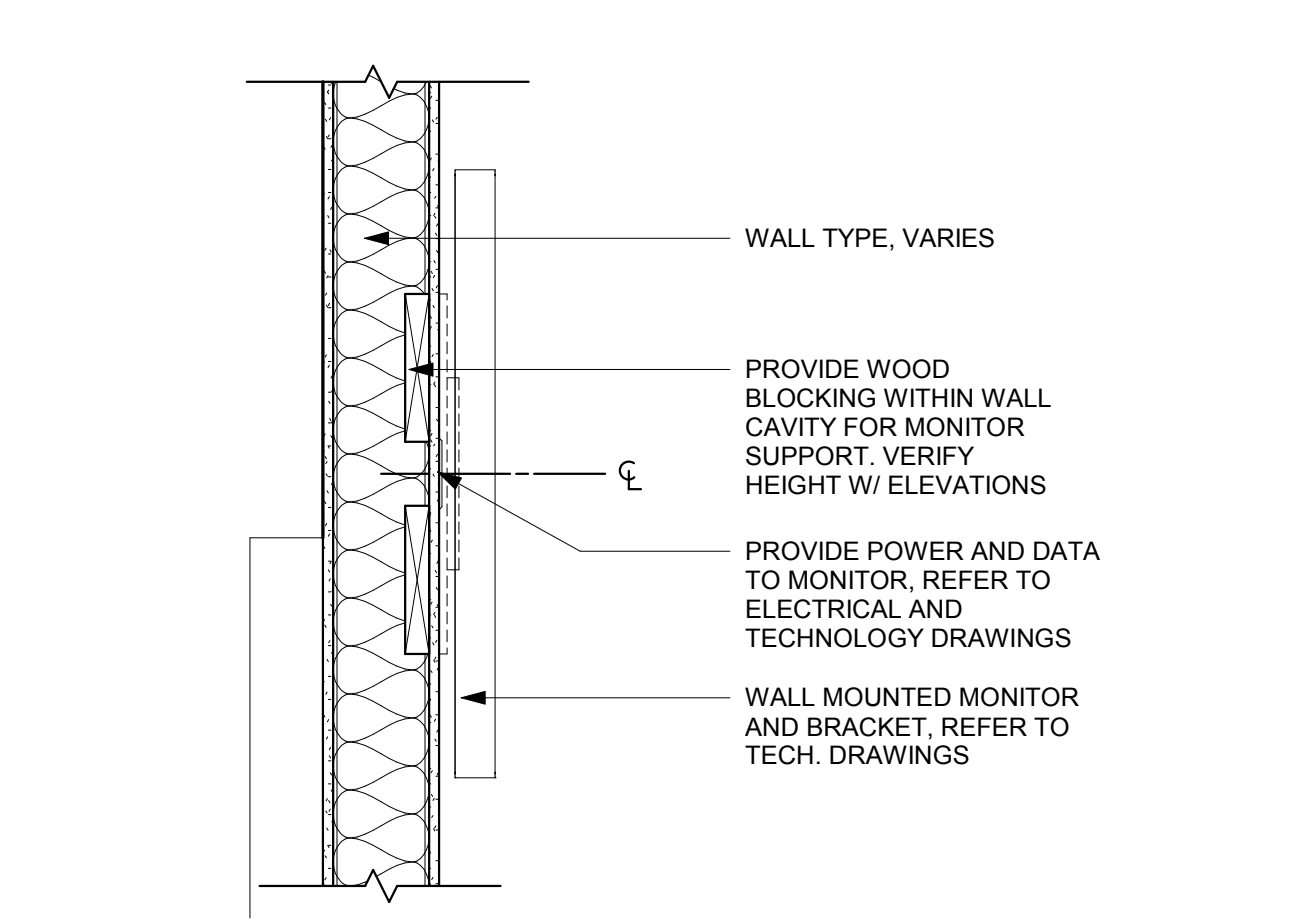
10 AIR INTAKE GYP BOARD SOFFIT
1 1/2" = 1'-0"



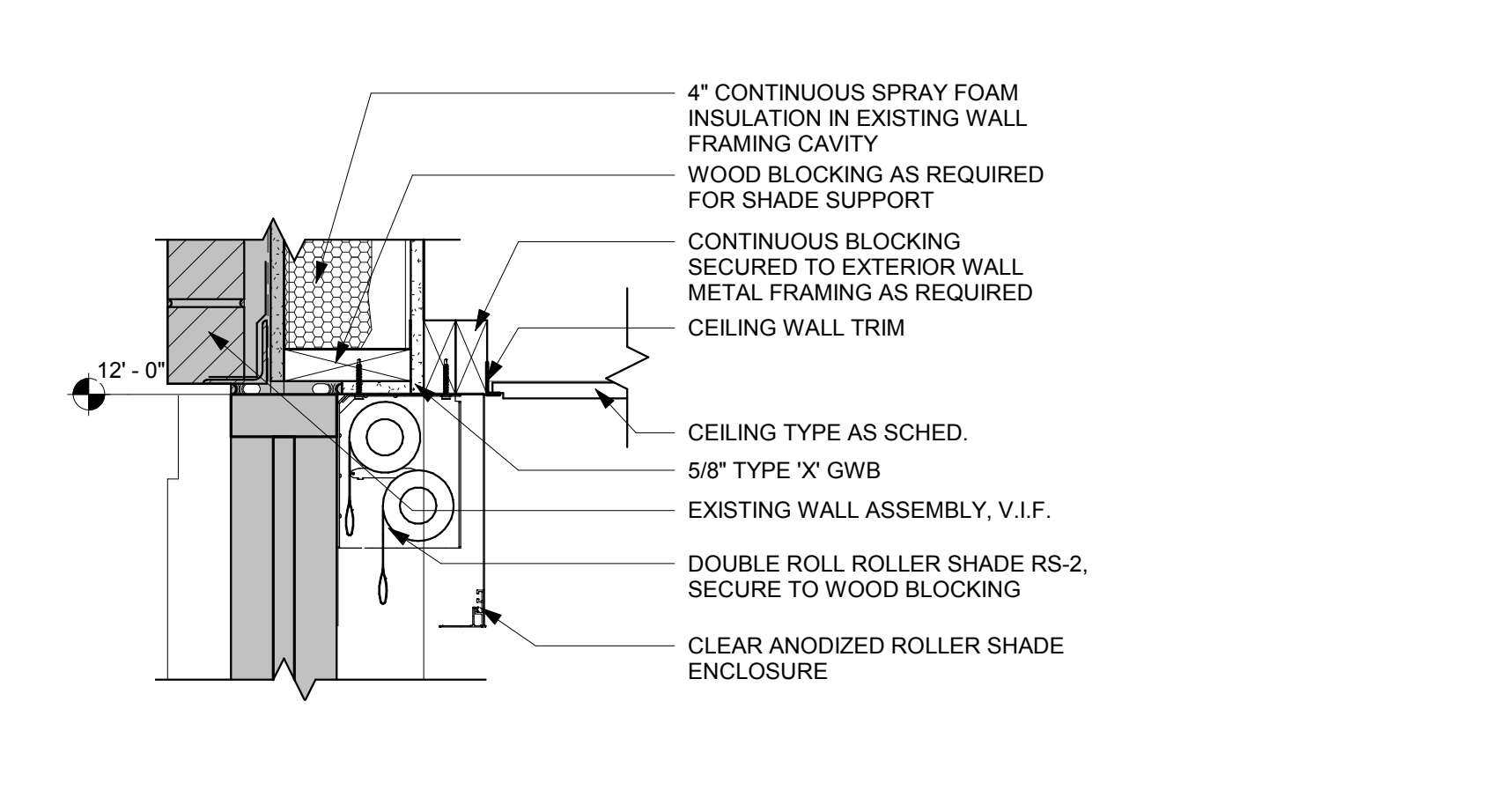
6 EXTERIOR GYP BOARD SOFFIT
1 1/2" = 1'-0"



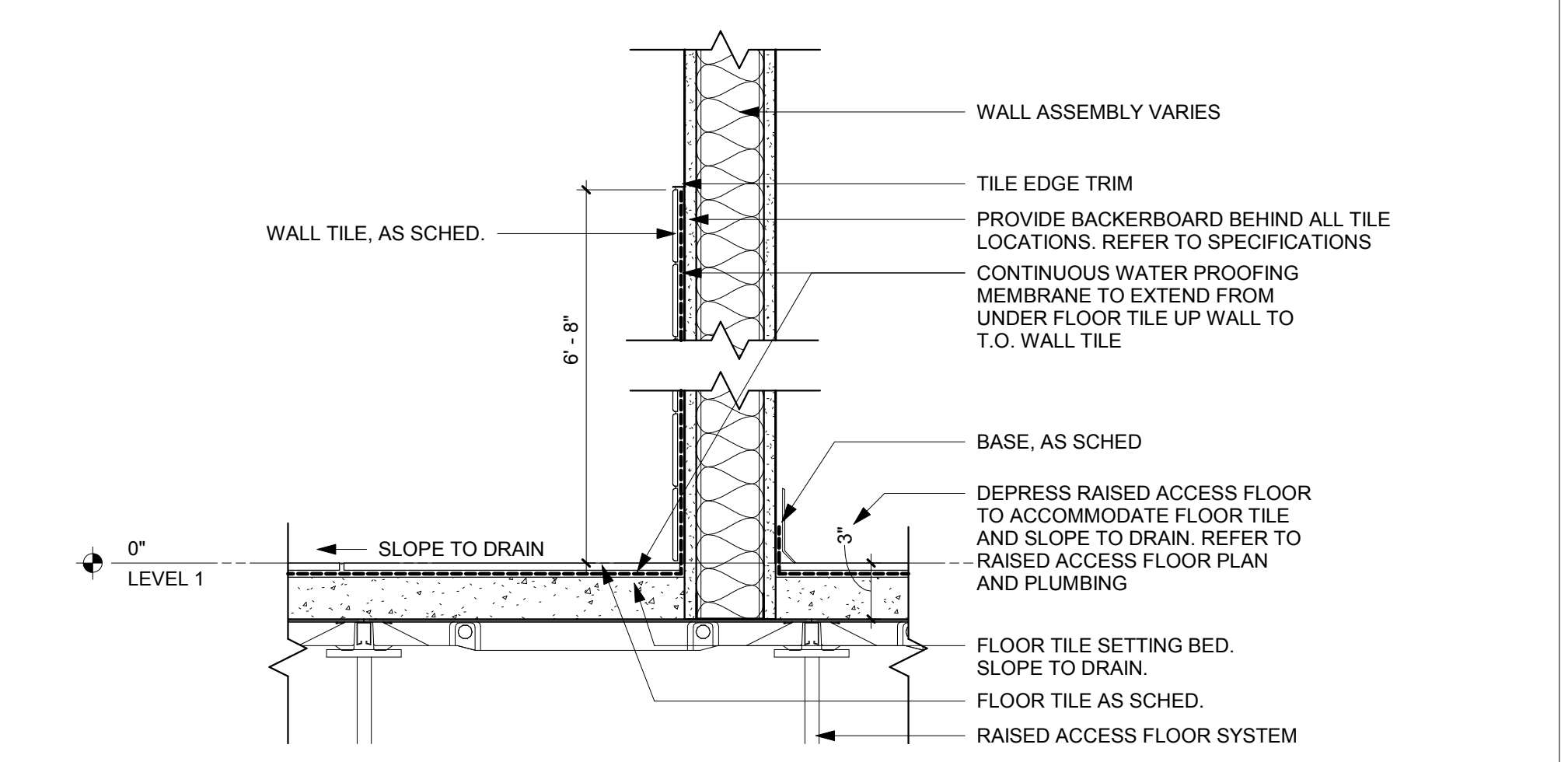
2 RAISED ACCESS FLOOR TRANSITION
1 1/2" = 1'-0"



9 TYPICAL MONITOR MOUNT
1" = 1'-0"



5 DOUBLE ROLL ROLLER SHADE POCKET
1 1/2" = 1'-0"



1 TYPICAL RESTROOM WATERPROOFING B/T CORRIDOR
1 1/2" = 1'-0"



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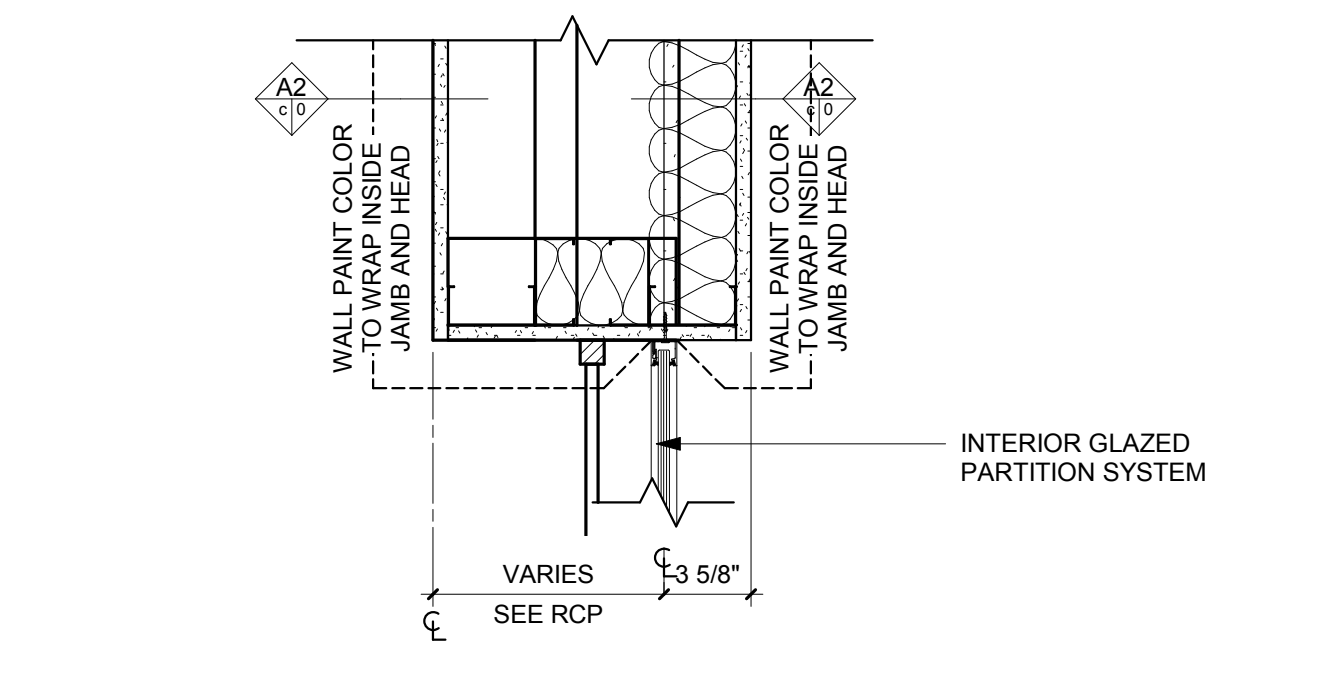
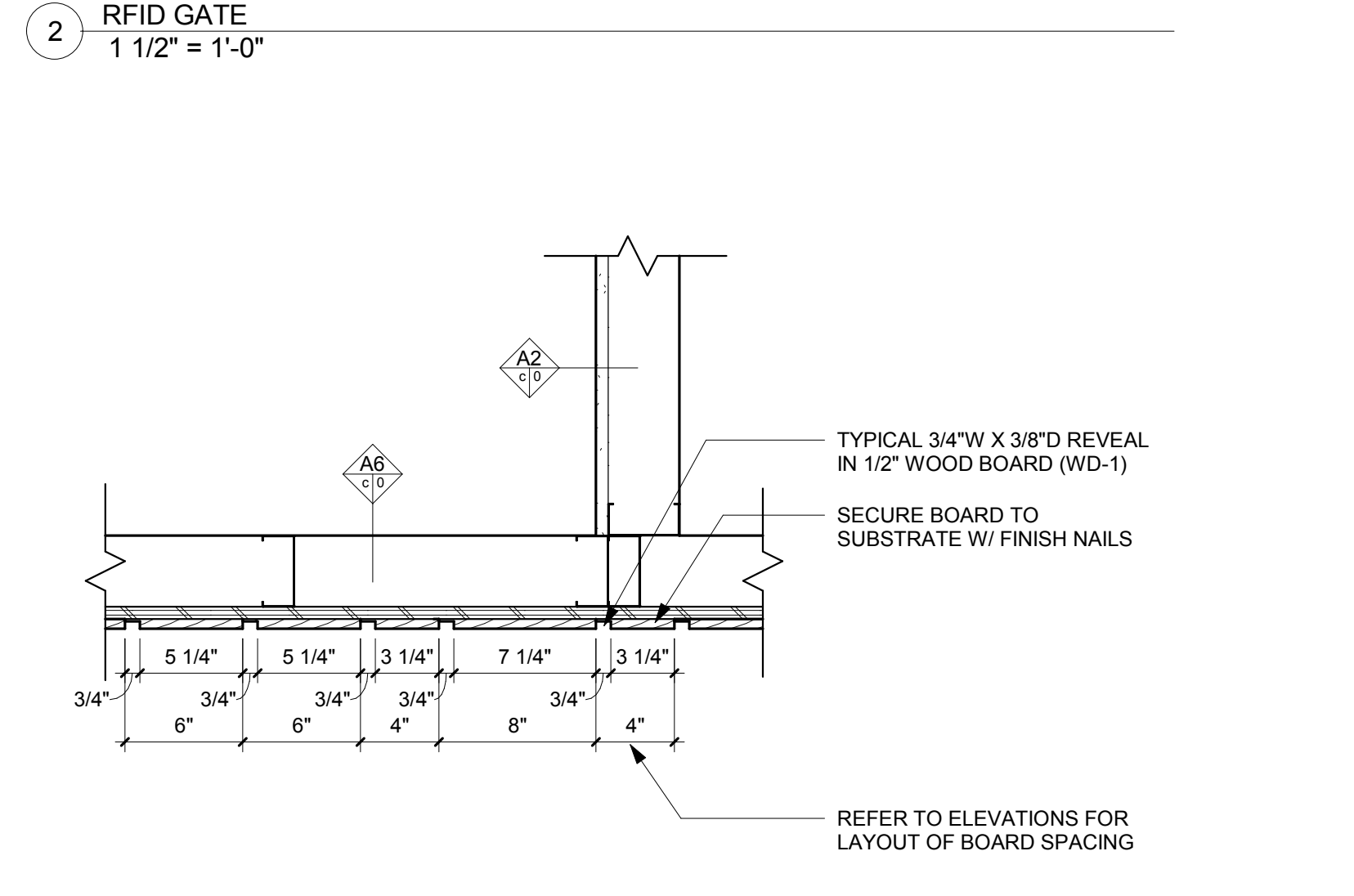
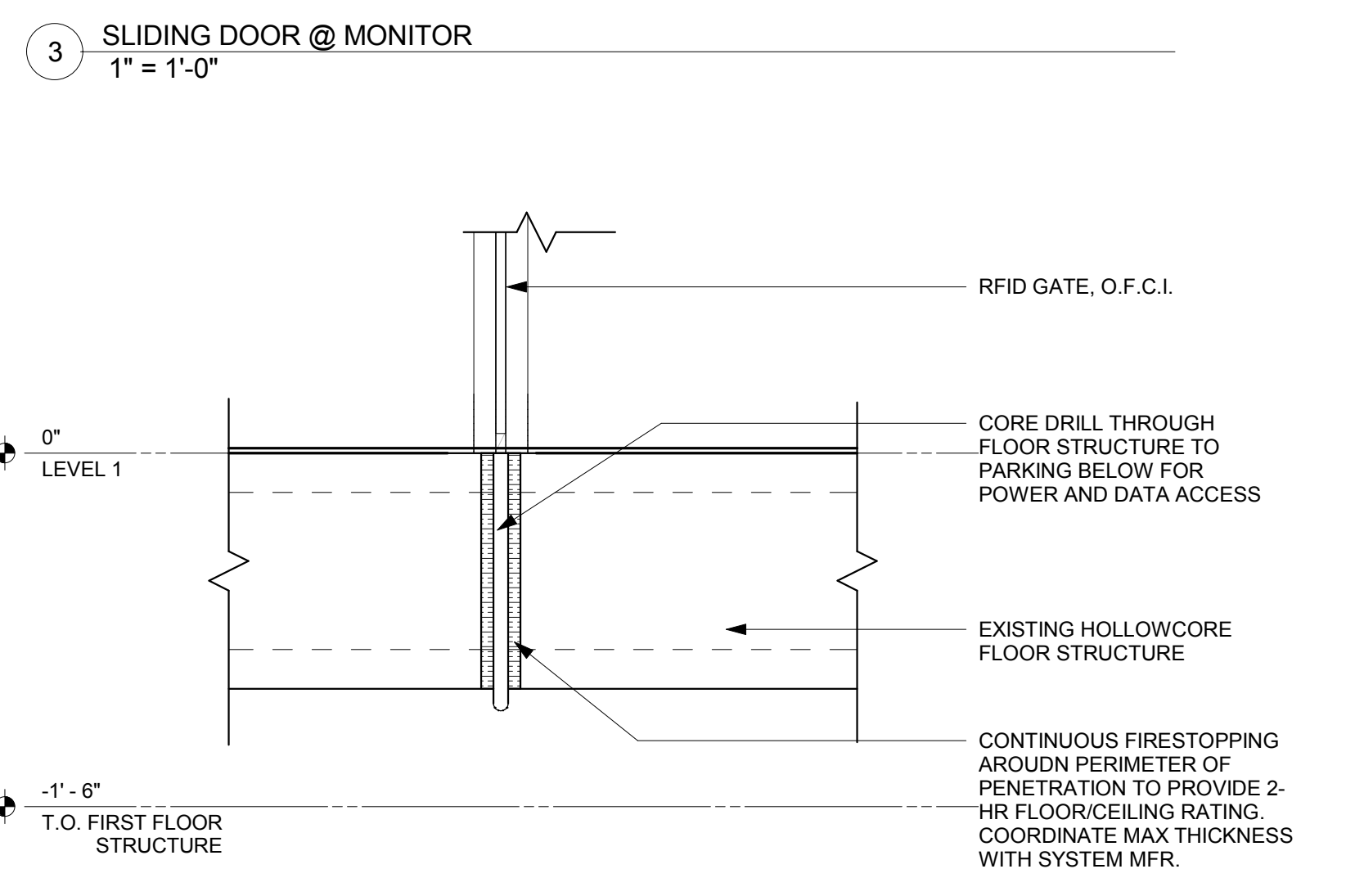
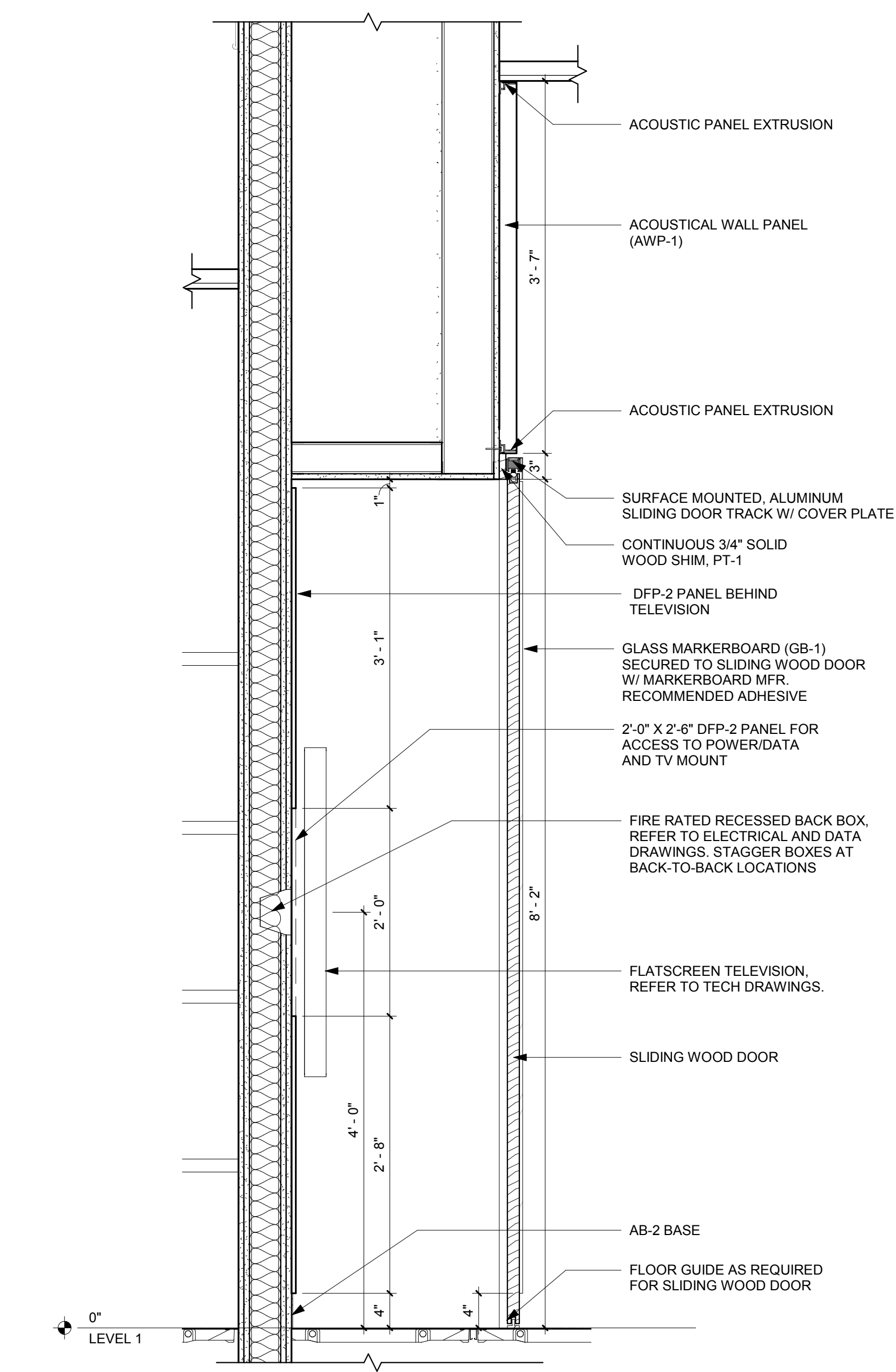
Revision Date

City Contract No.
7662
OPN Project No.
17609000

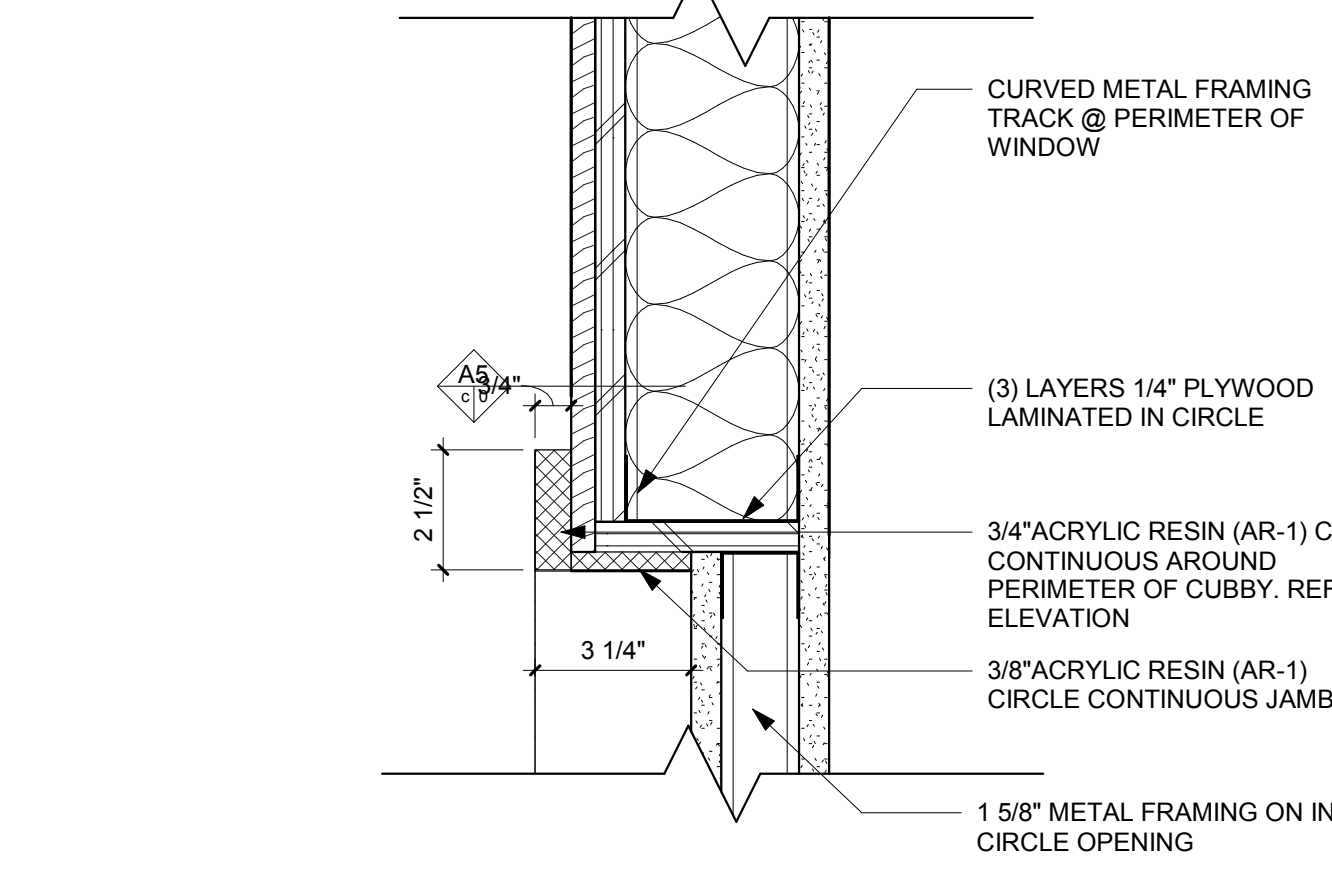
Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
DETAILS

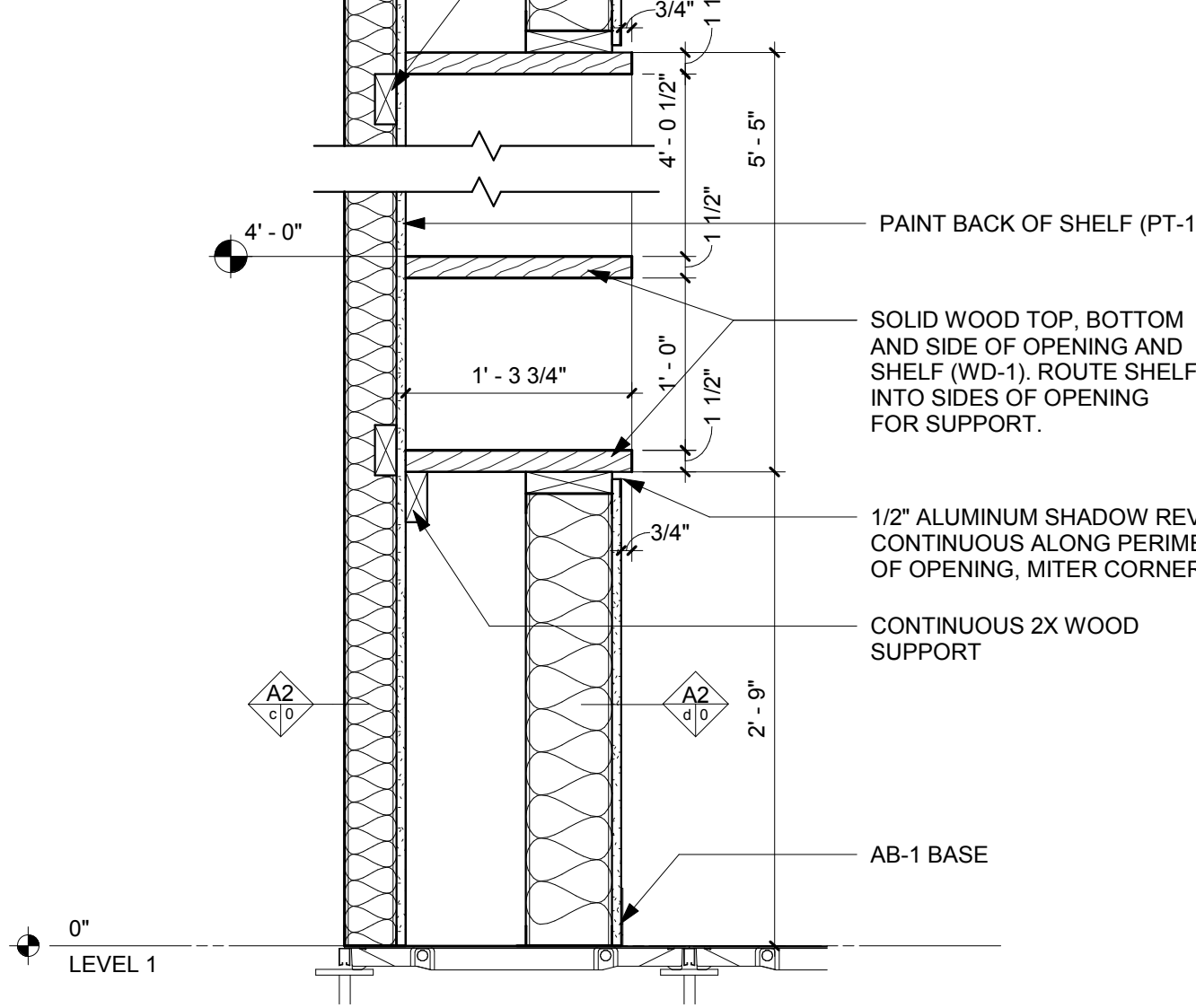
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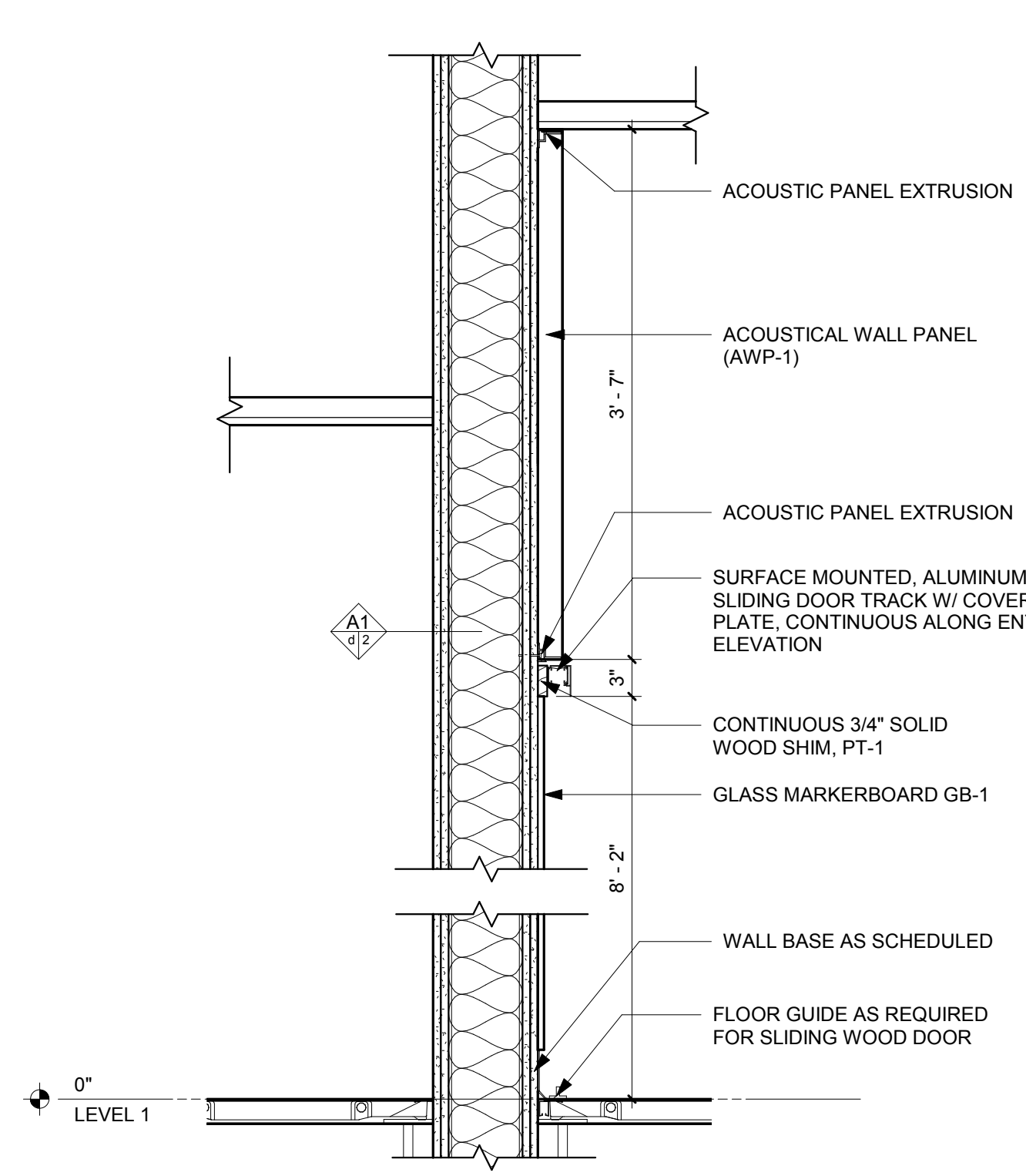
7 INTERIOR GLAZING HEAD
1 1/2" = 1'-0"



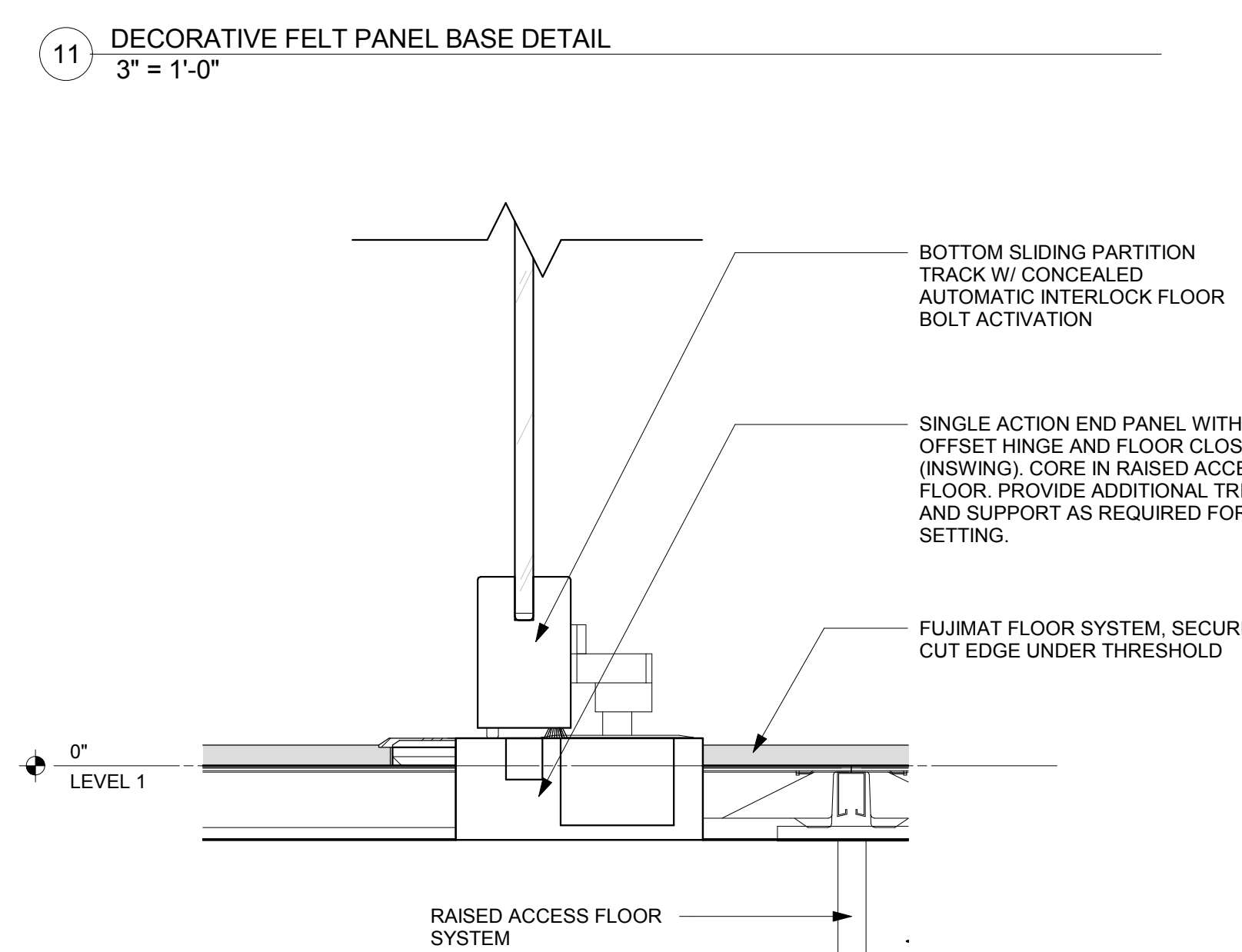
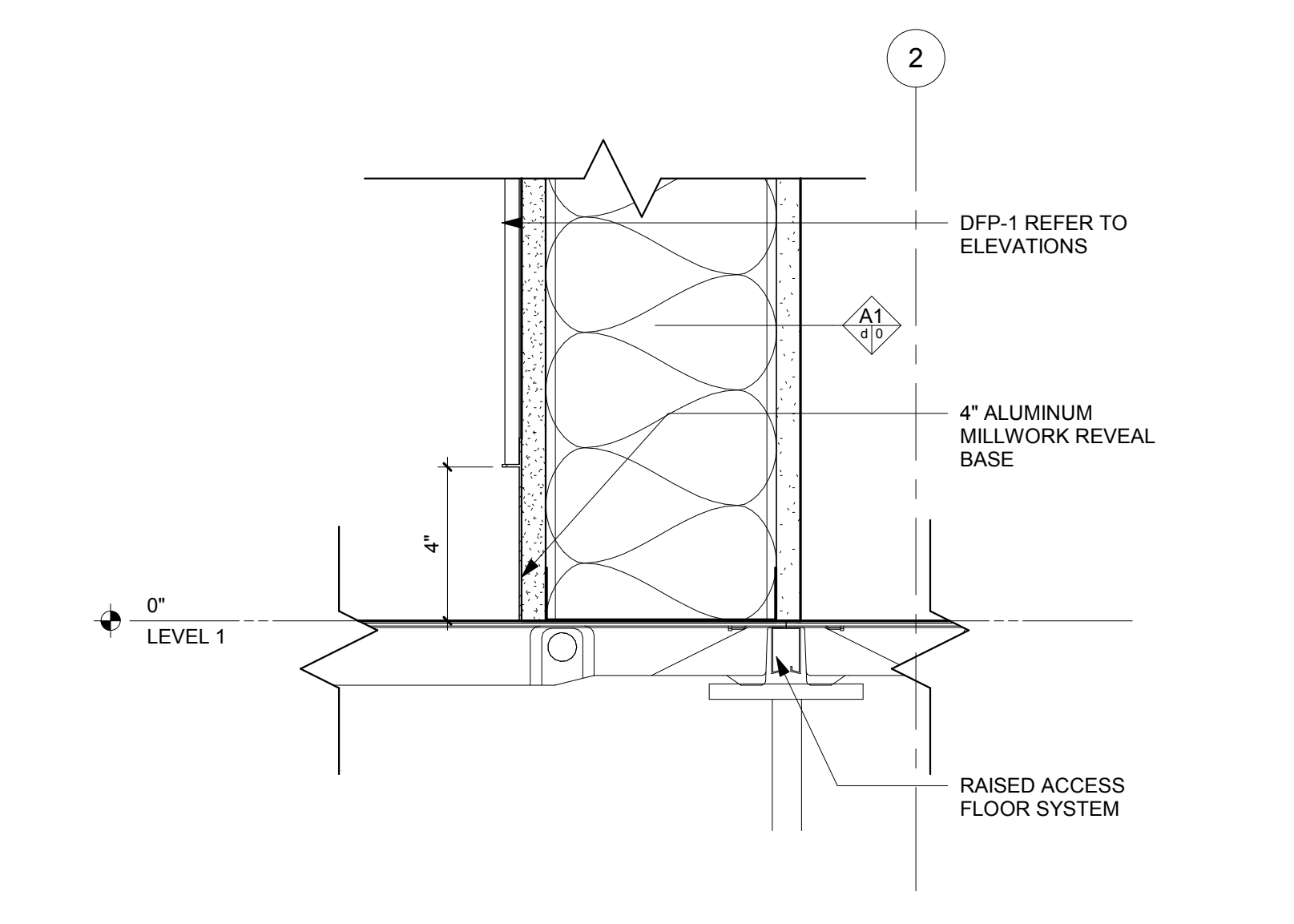
6 ROUND CUBBY JAMB
3" = 1'-0"



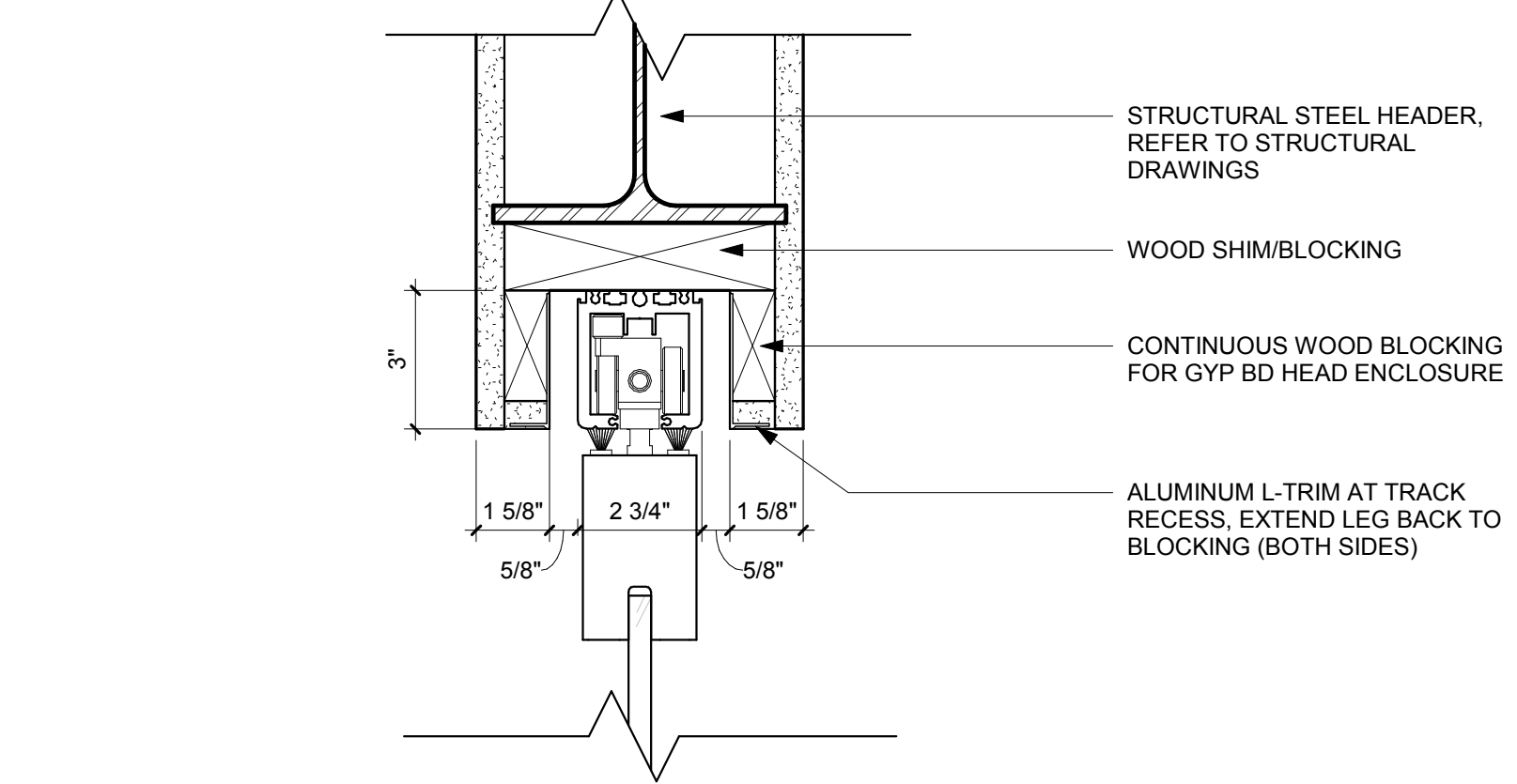
5 BUILT-IN DISPLAY
1" = 1'-0"



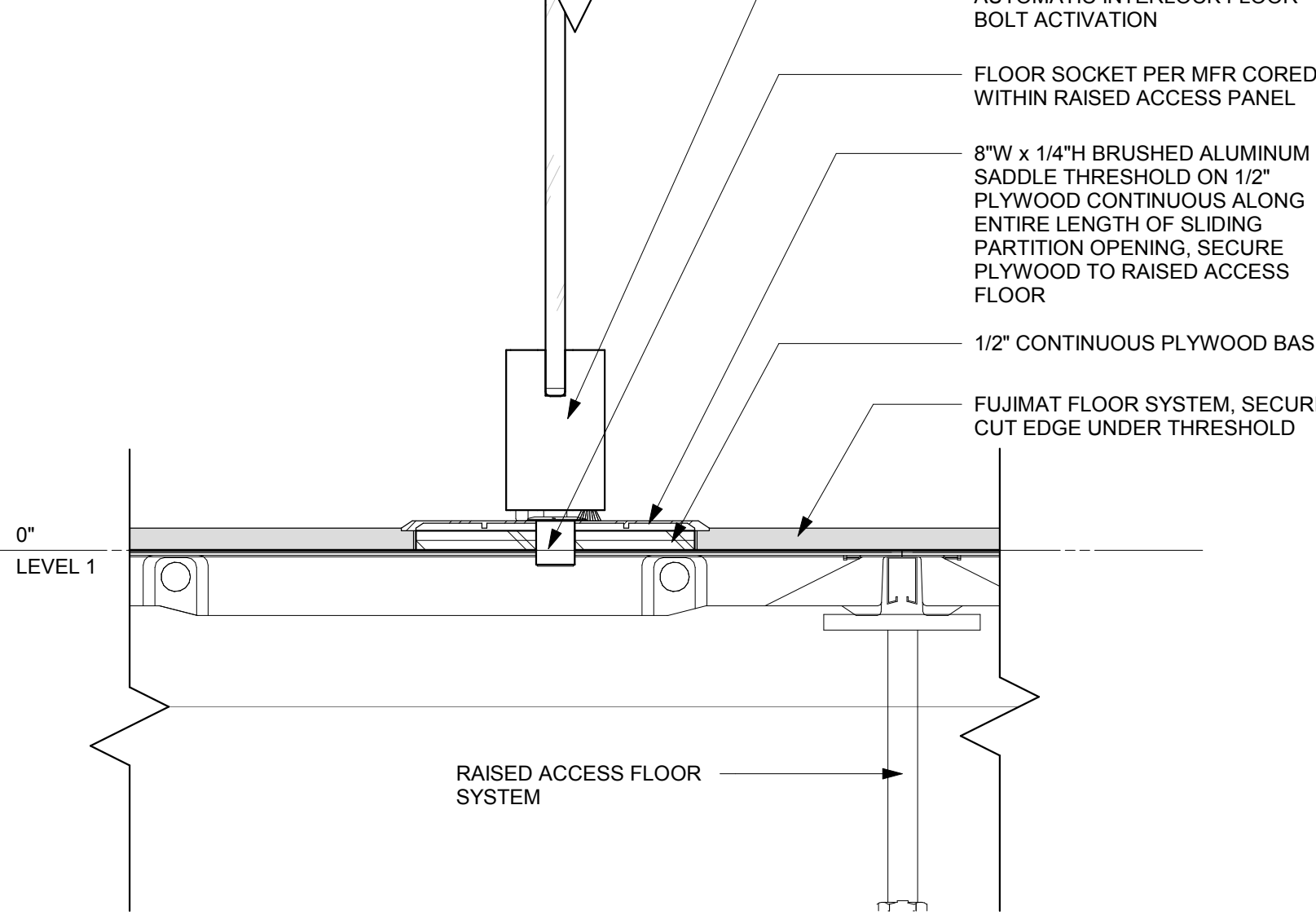
4 SLIDING DOOR @ GLASS MARKERBOARD
1" = 1'-0"



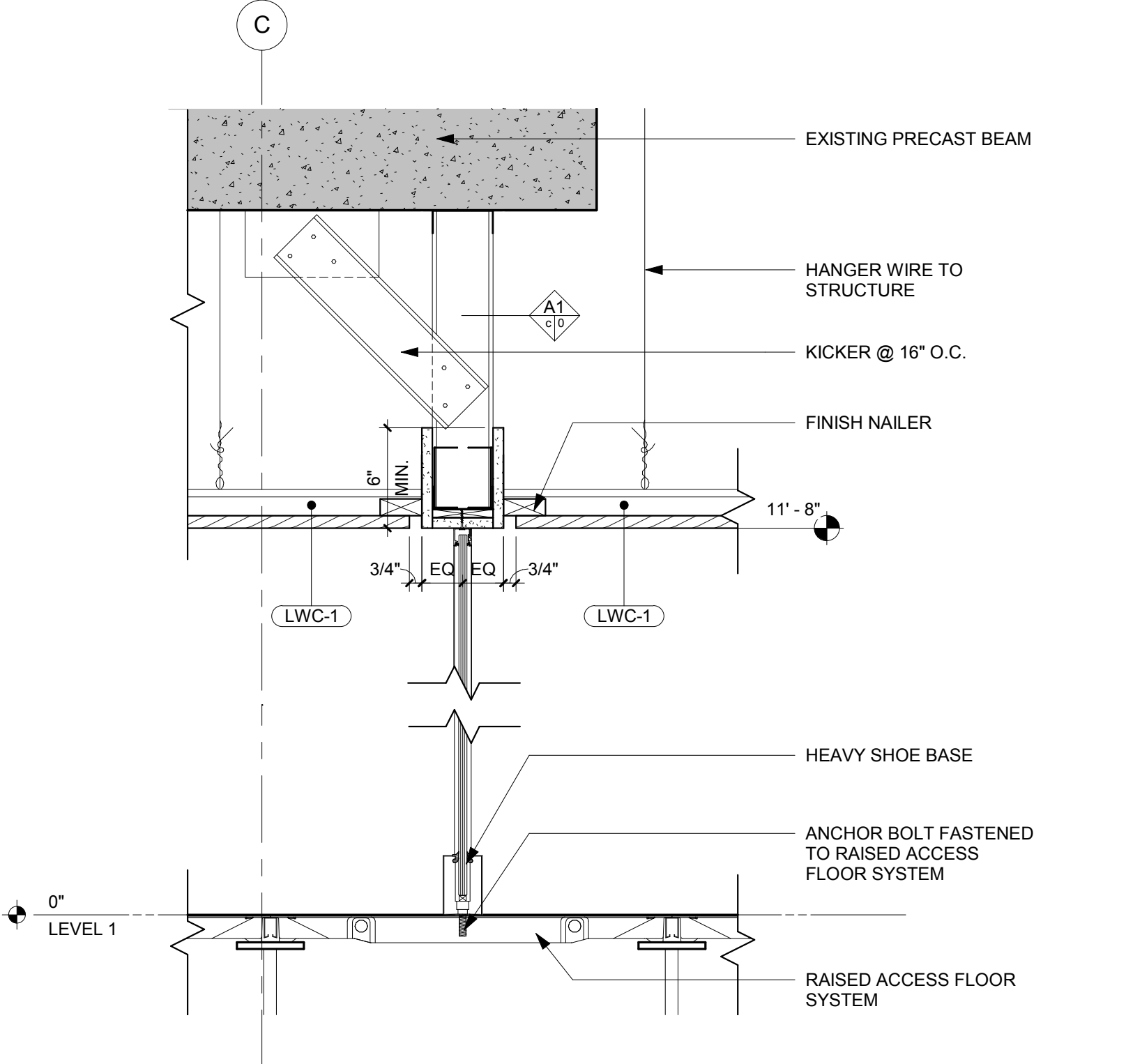
10 SLIDING DOOR PARTITION SILL @ END PANEL
3" = 1'-0"



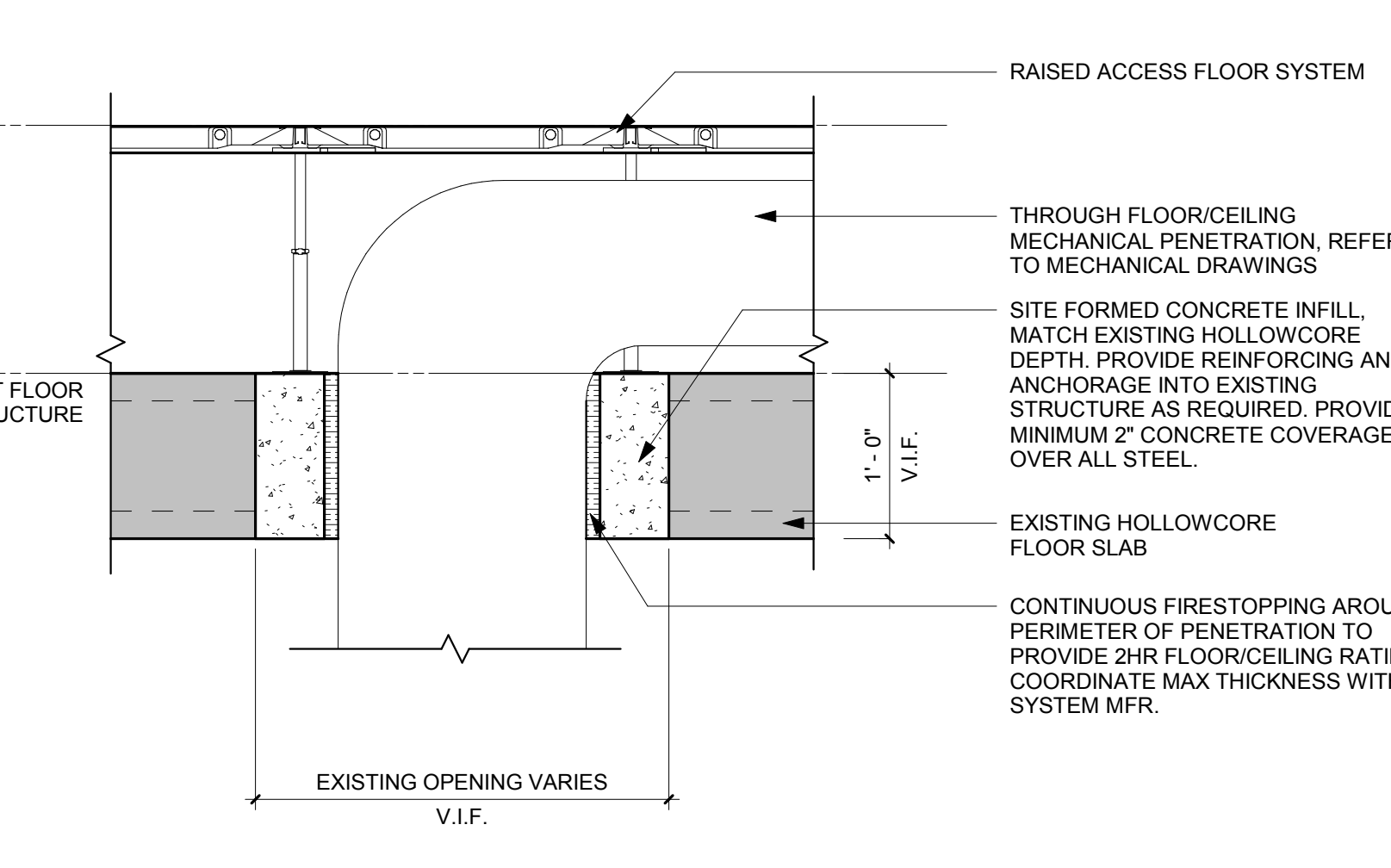
9 SLIDING DOOR PARTITION HEAD
3" = 1'-0"



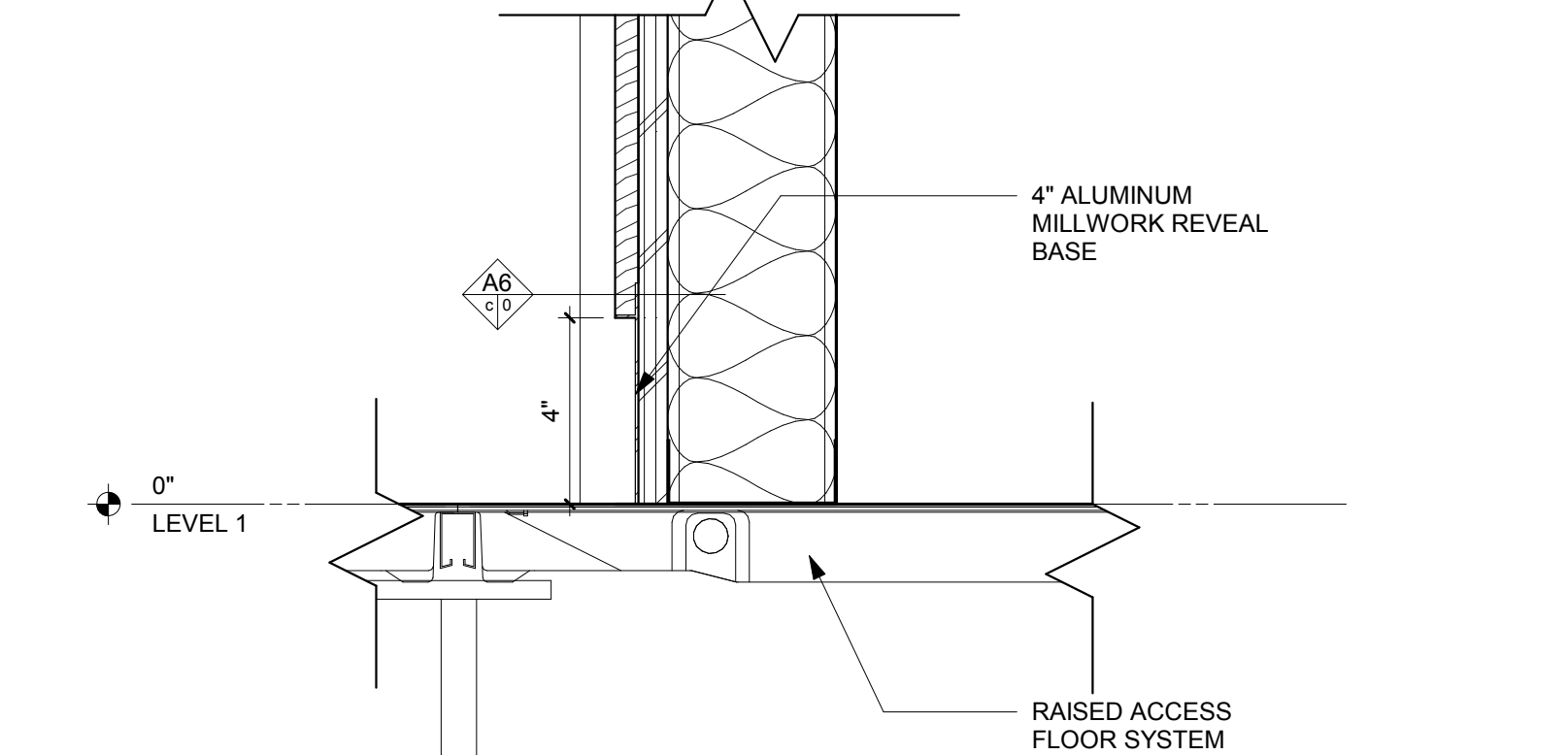
8 SLIDING DOOR PARTITION SILL
3" = 1'-0"



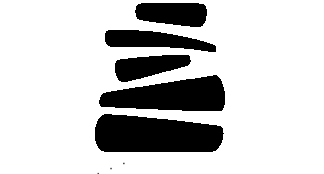
14 GLAZING @ WOOD CEILING
1 1/2" = 1'-0"



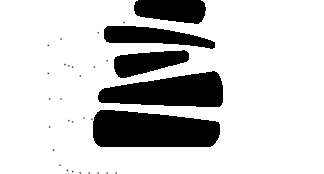
13 2HR RATED FLOOR PENETRATION
3" = 1'-0"



12 WOOD WALL BASE DETAIL
3" = 1'-0"



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F. 608.223.9601

Key Plan

Revision Date

City Contract No.
7662

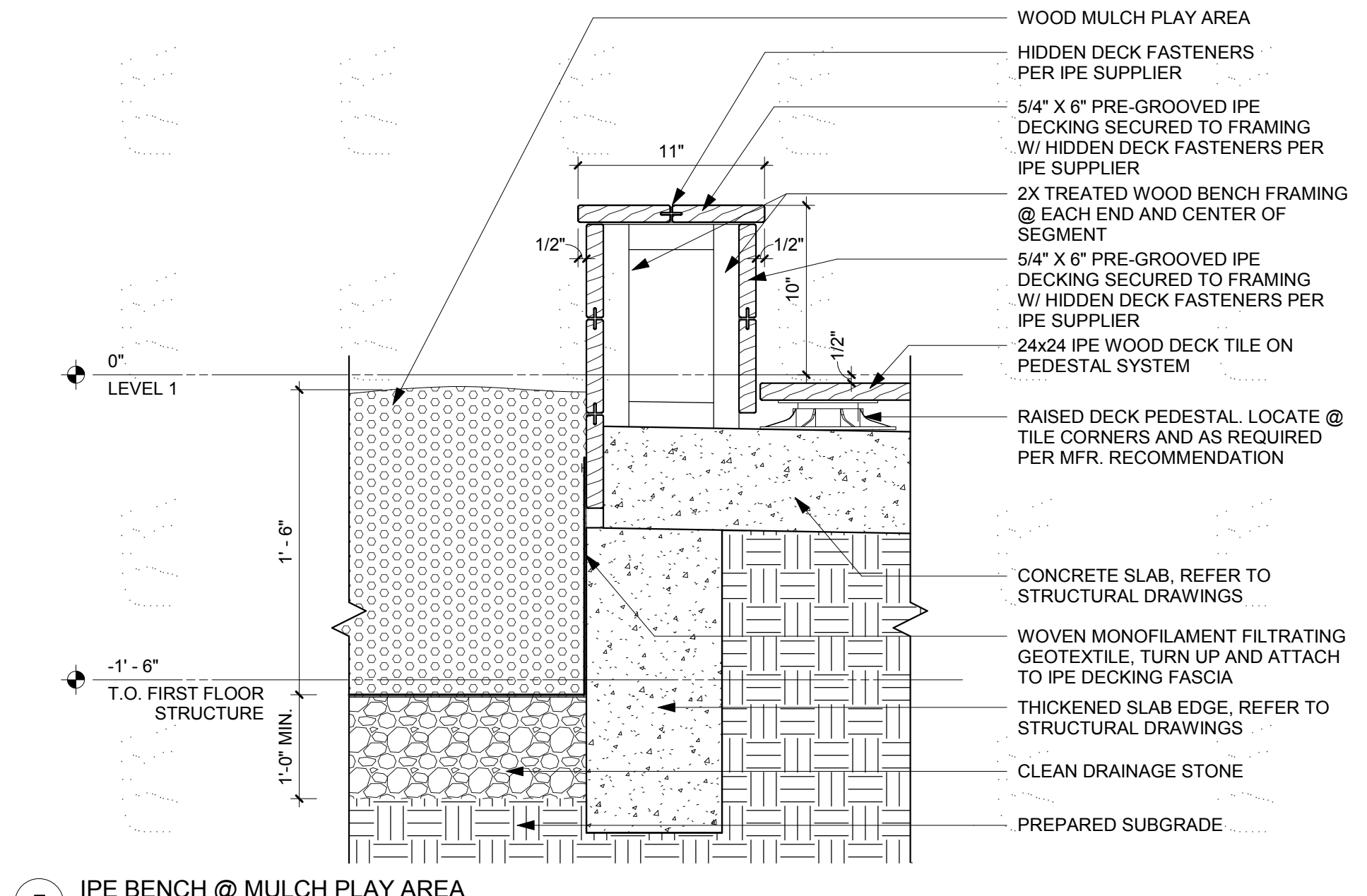
OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

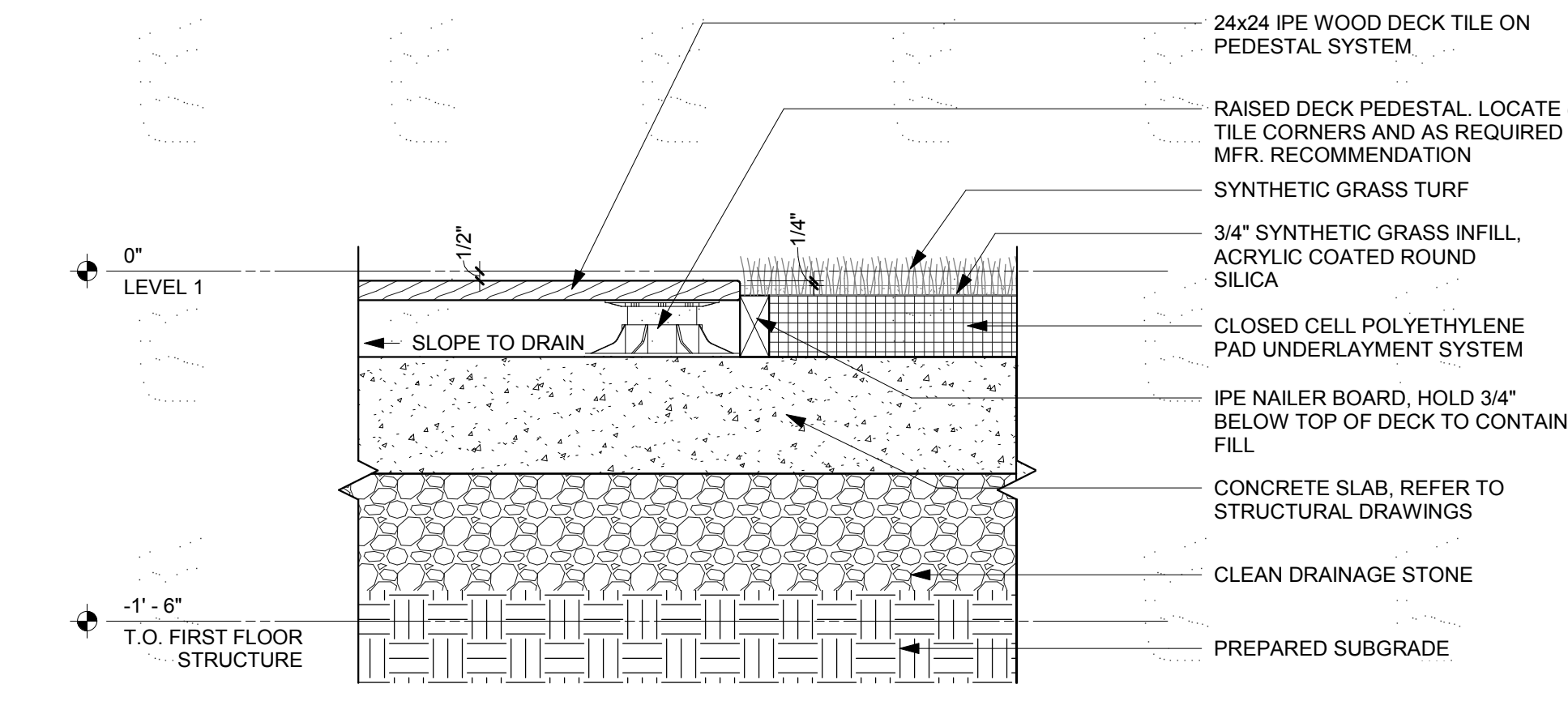
Sheet Name

PATIO ENCLOSURE PLAN, ELEVATIONS, AND DETAILS

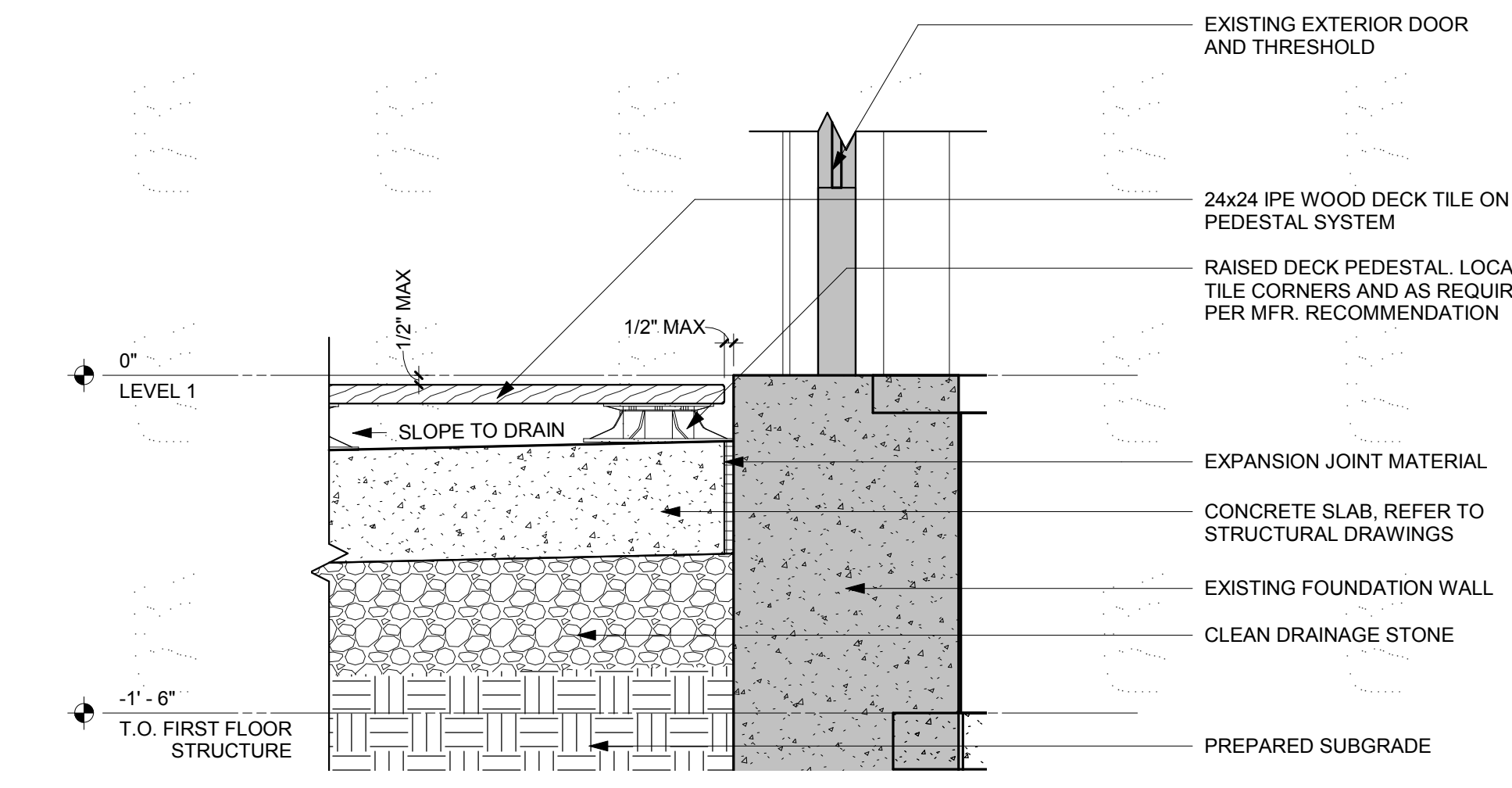
Sheet Number



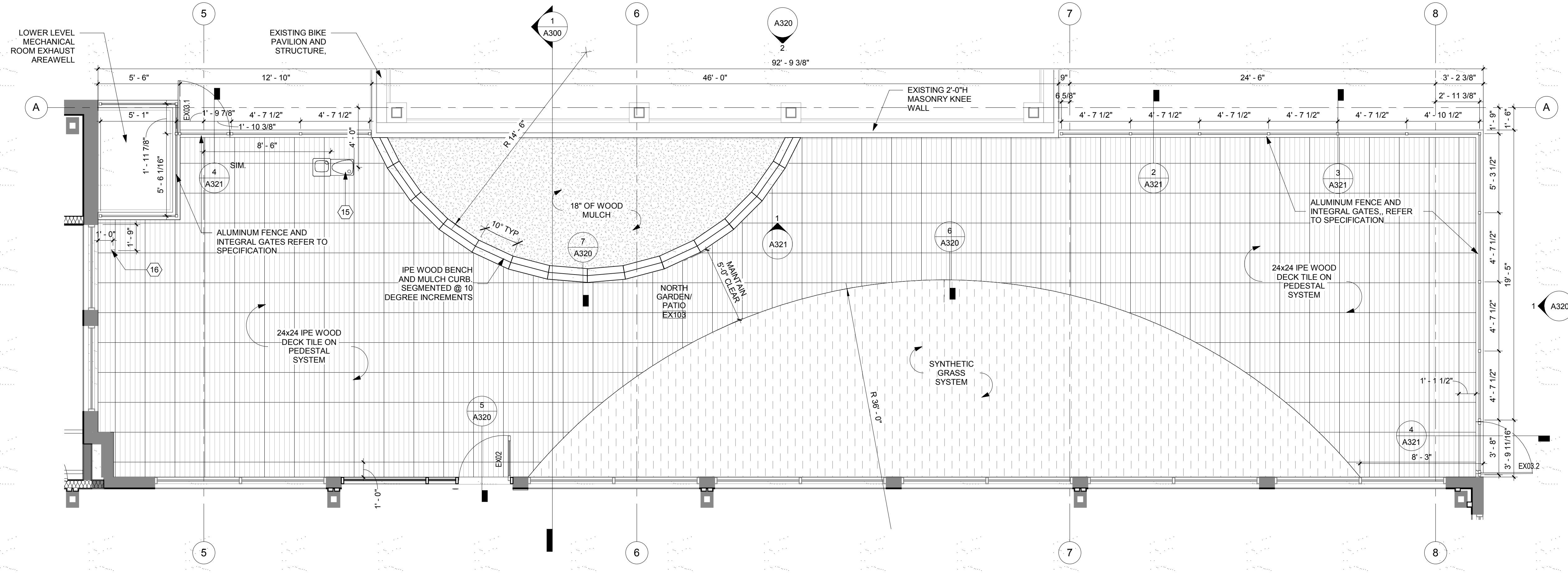
7 IPE BENCH @ MULCH PLAY AREA
1 1/2" = 1'-0"



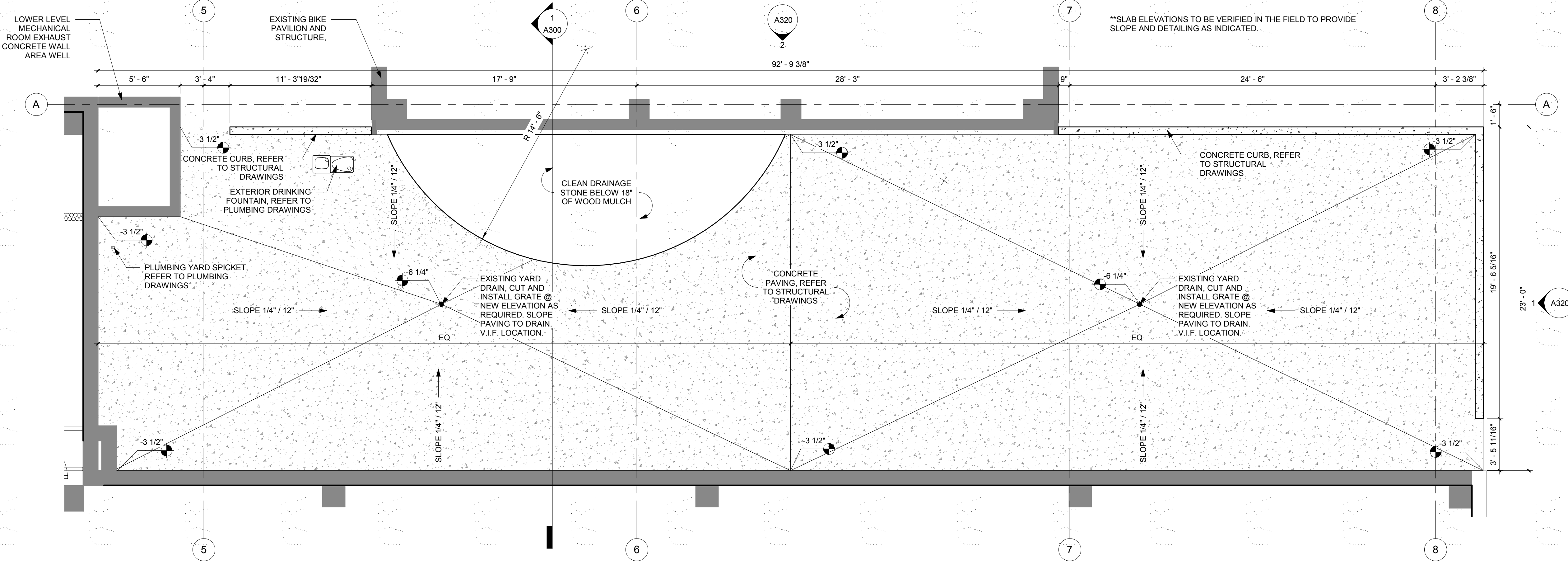
6 IPE DECKING @ SYNTHETIC GRASS TURF
1 1/2" = 1'-0"



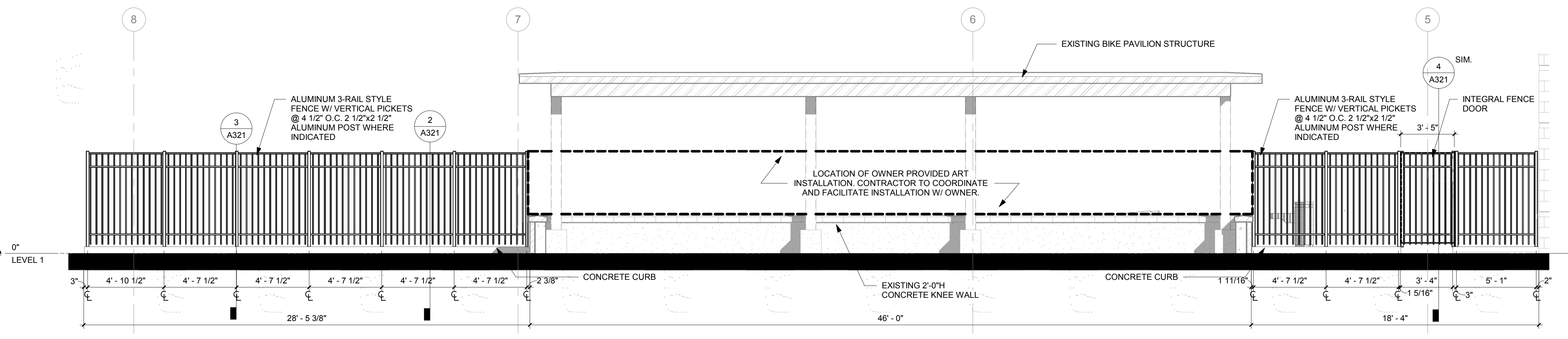
5 IPE DECKING @ EXISTING FOUNDATION WALL
1 1/2" = 1'-0"



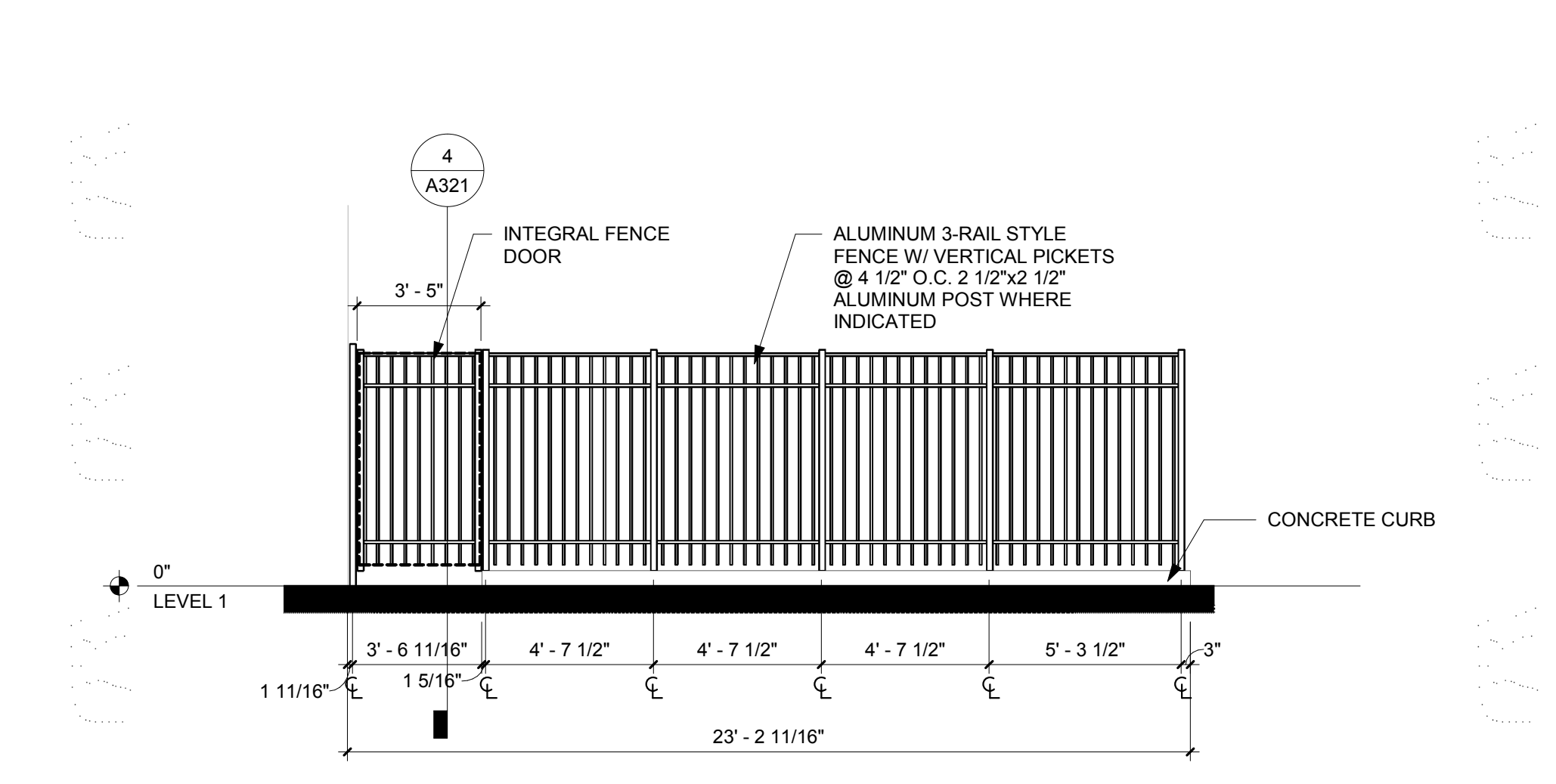
4 ENLARGED NORTH GARDEN PATIO PLAN
1/4" = 1'-0"



3 ENLARGED NORTH GARDEN UNDER SLAB PATIO PLAN
1/4" = 1'-0"



2 NORTH FENCE ELEVATION - NORTH GARDEN TERRACE
1/4" = 1'-0"



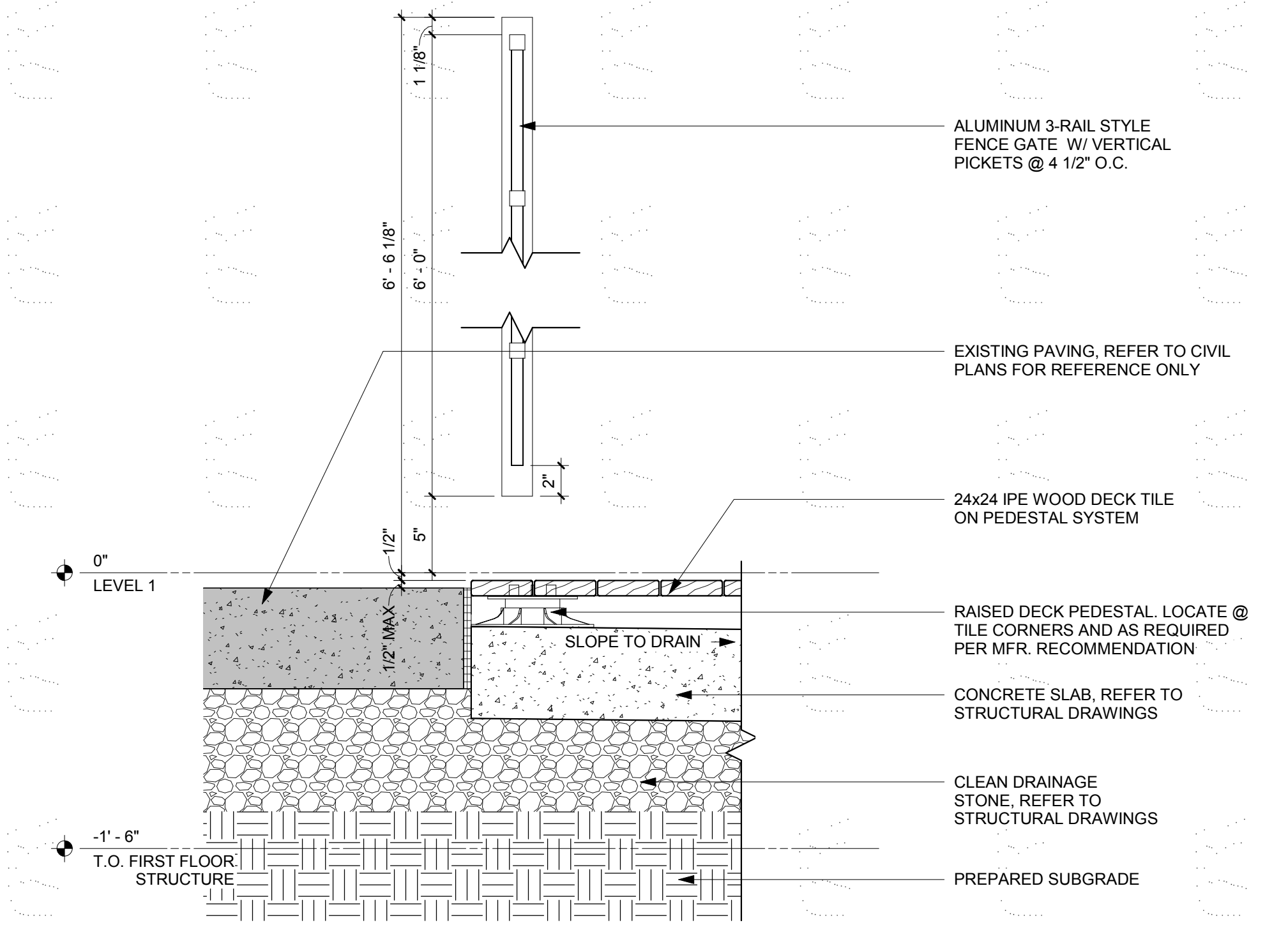
1 EAST FENCE ELEVATION - NORTH GARDEN TERRACE
1/4" = 1'-0"

*** ALL INFORMATION ON THIS SHEET INCLUDING M.E.P. & STRUCTURAL WORK PART OF ALTERNATE 1**

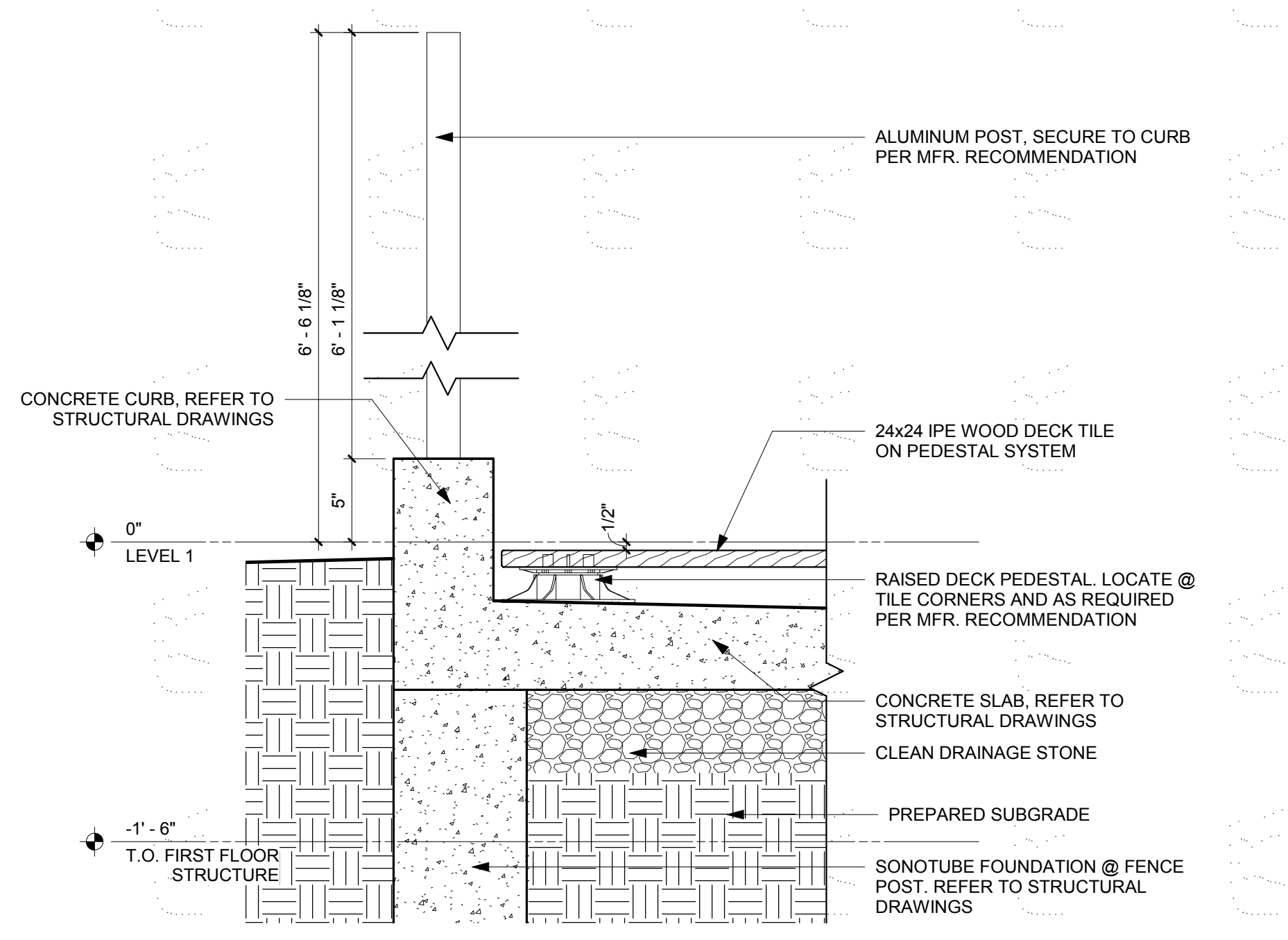


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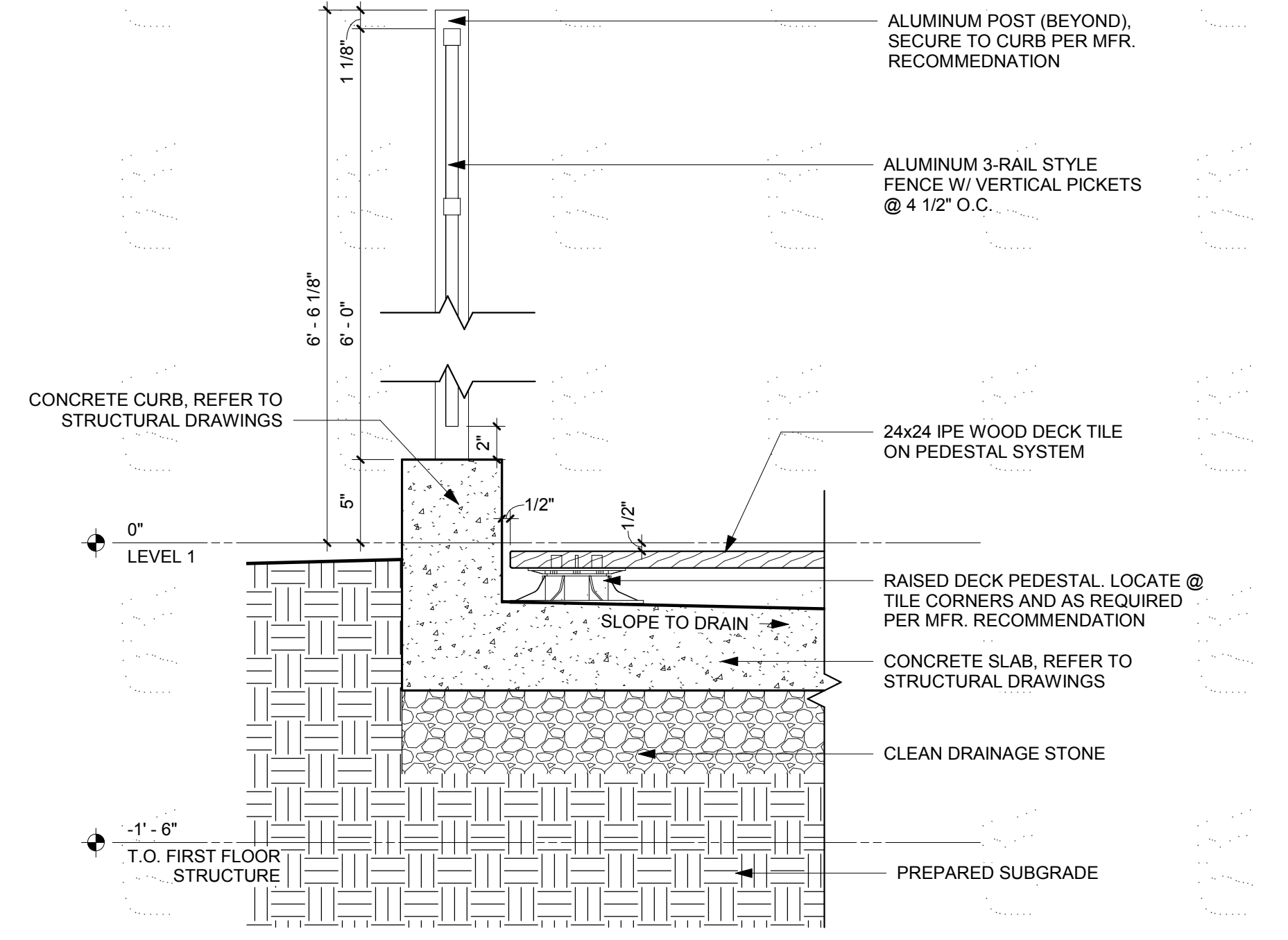
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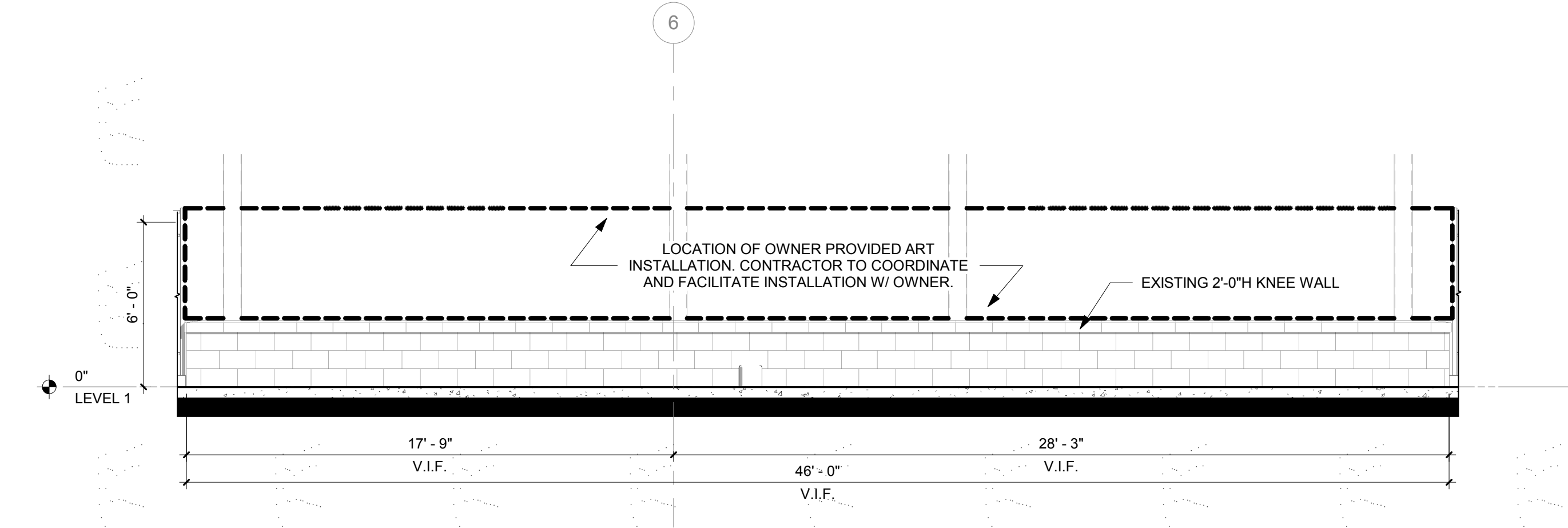
4 FENCE GATE SECTION
1 1/2" = 1'-0"



3 TYPICAL FENCE POST SECTION
1 1/2" = 1'-0"



2 TYPICAL FENCE PANEL SECTION
1 1/2" = 1'-0"



1 NORTH GARDEN TERRACE - LIVING WALL
1/4" = 1'-0"

*** ALL INFORMATION ON THIS SHEET INCLUDING M.E.P. & STRUCTURAL WORK PART OF ALTERNATE 1**

Key Plan

Revision	Date

City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
11/30/2018

Sheet Name
PATIO ENCLOSURE PLAN, ELEVATIONS, AND DETAILS

Sheet Number
A321



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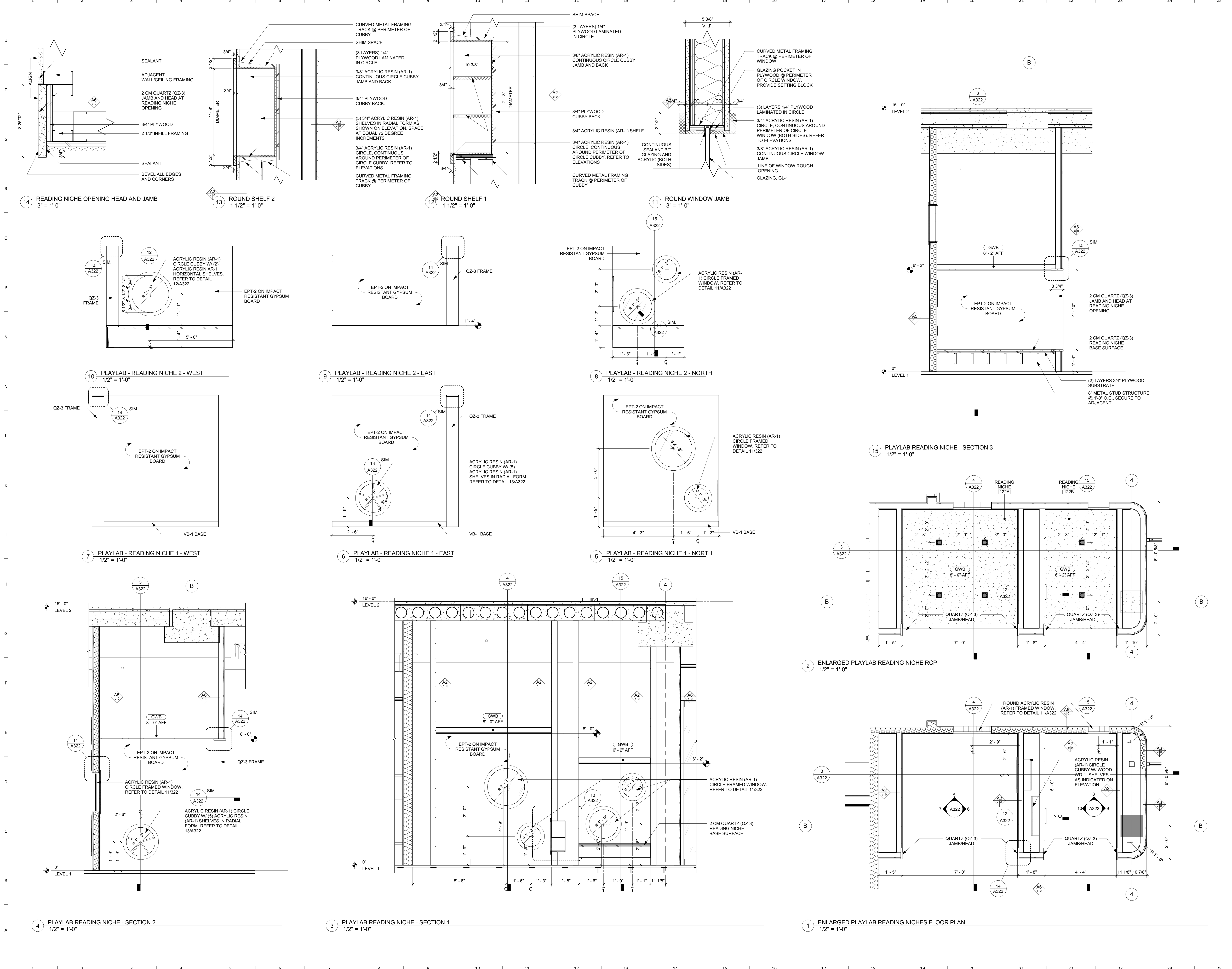
Revision Date

City Contract No.
7662
OPN Project No.
17609000

Sheet Issue Date
11/30/2018

Sheet Name
PLAYLAB PLAN, ELEVATIONS, AND DETAILS

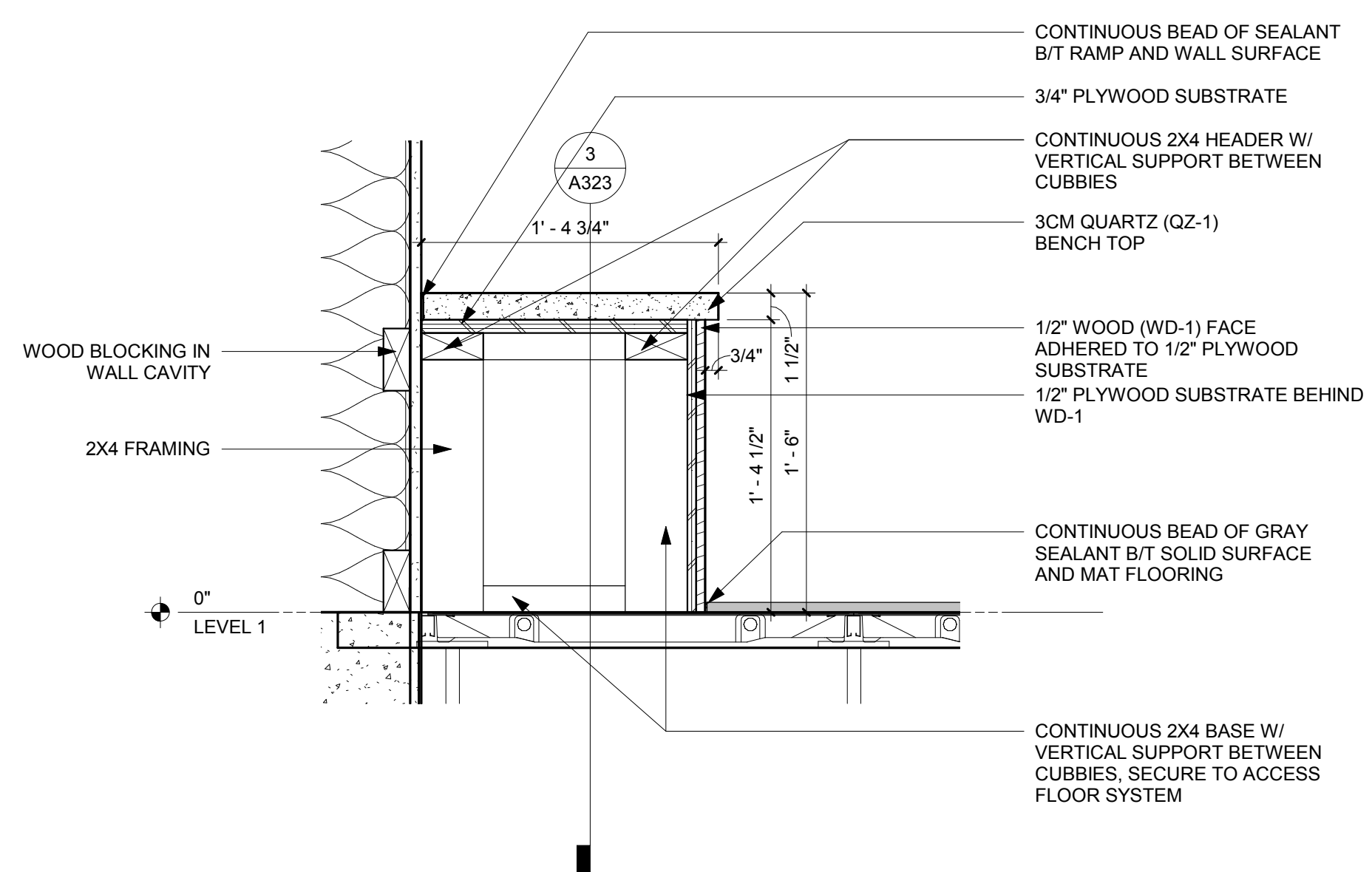
Sheet Number
A322



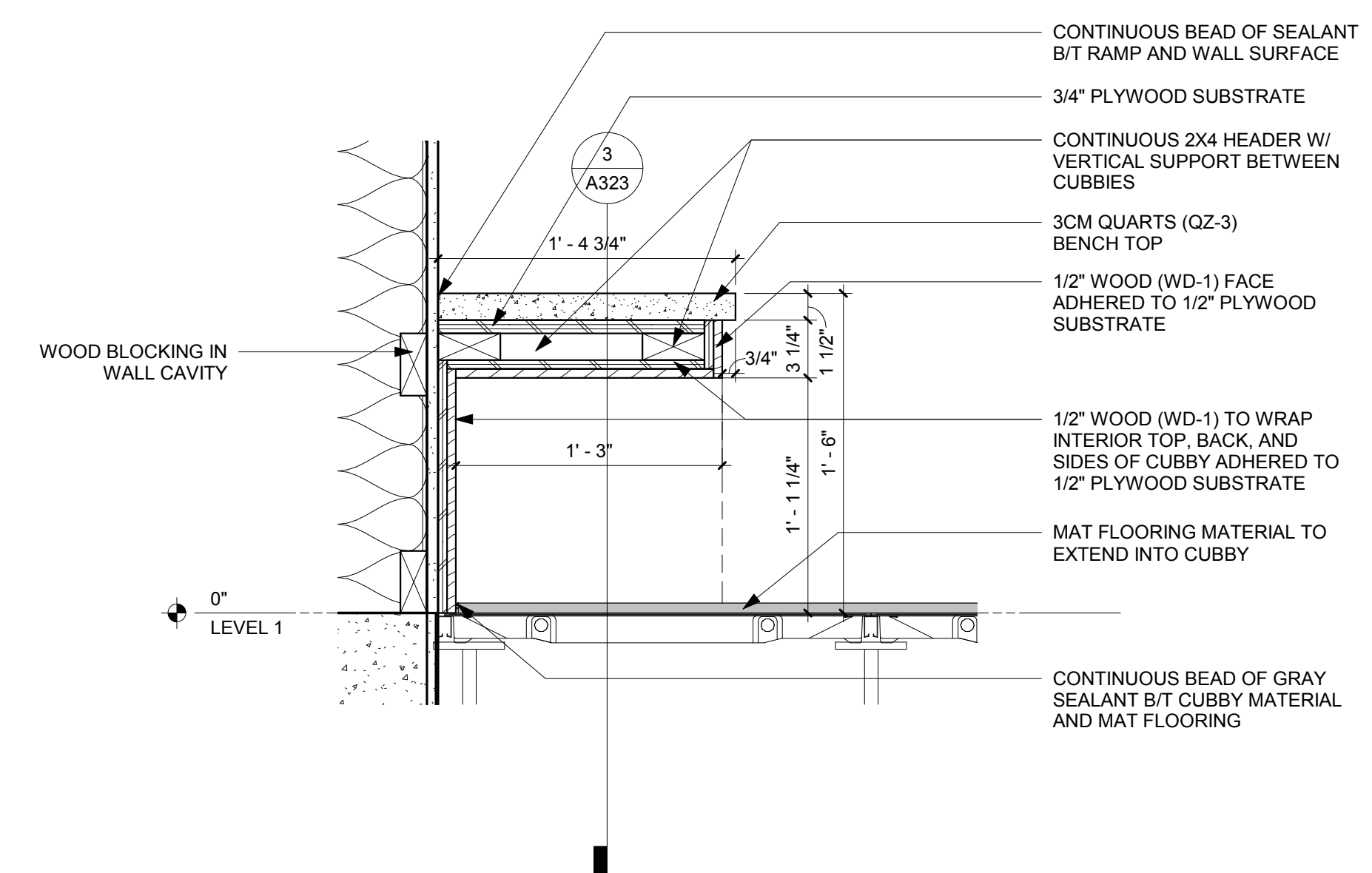


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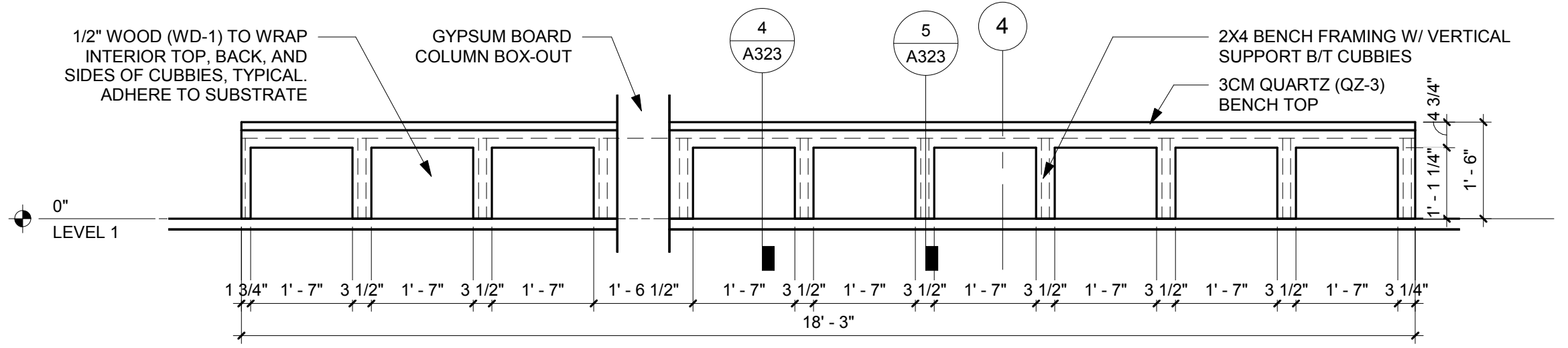
MERT Engineer
IMEG
1800 DEMING WAY, SUITE 200
MADISON, WI 53562
P. 608.223.9600
F. 608.223.9601



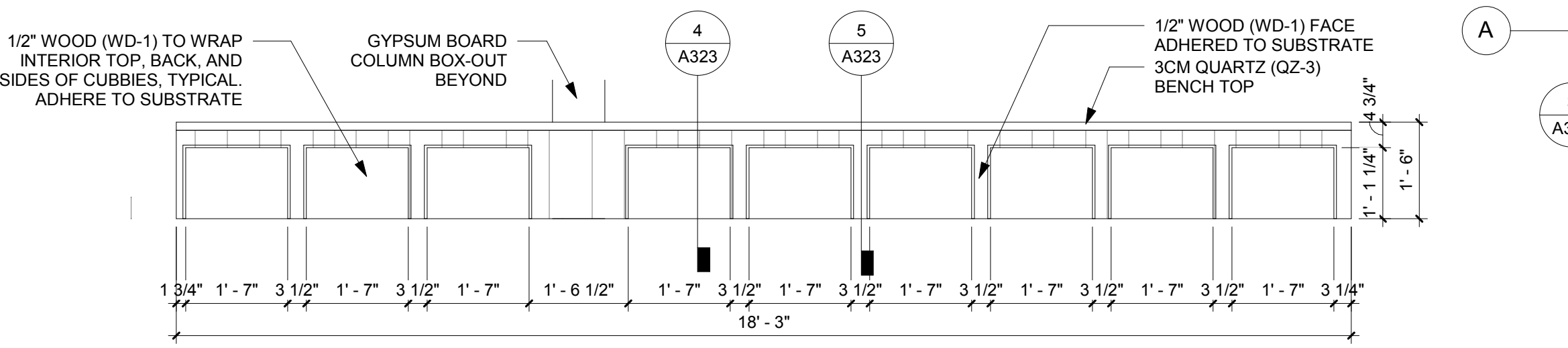
5 CHILDREN'S PROGRAM ROOM BENCH CROSS SECTION 2
1 1/2" = 1'-0"



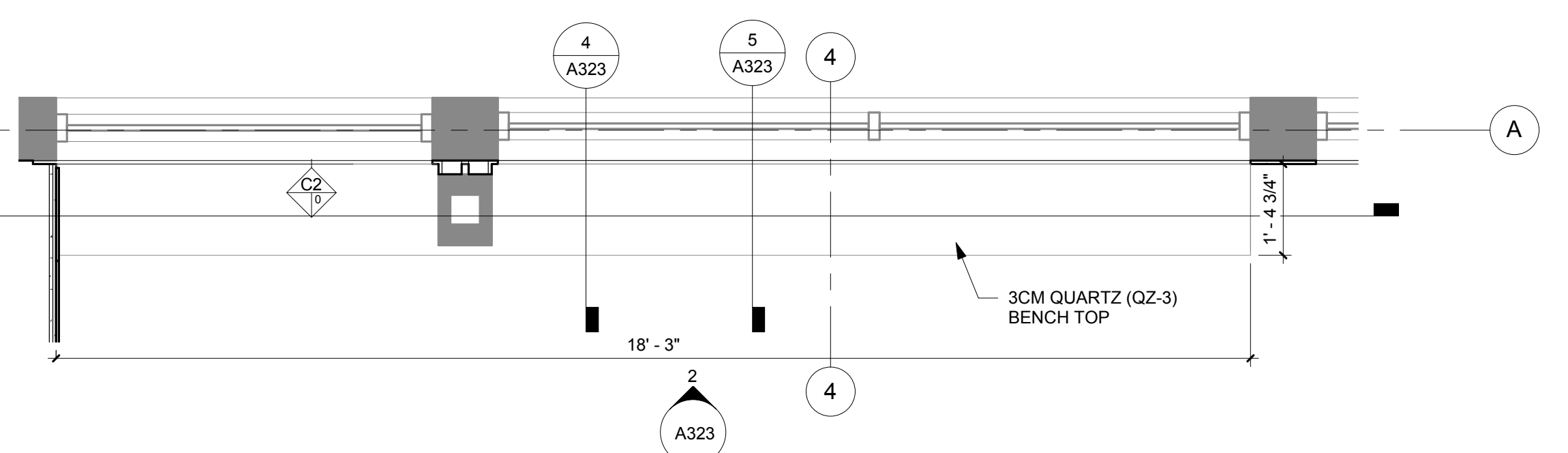
4 CHILDREN'S PROGRAM ROOM BENCH CROSS SECTION 1
1 1/2" = 1'-0"



3 CHILDREN'S PROGRAM ROOM BENCH LONGITUDINAL SECTION
1/2" = 1'-0"



2 CHILDREN'S PROGRAM ROOM BENCH ELEVATION
1/2" = 1'-0"



1 ENLARGED CHILDREN'S PROGRAM ROOM BENCH
1/2" = 1'-0"

Key Plan

Revision

Date

City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
PLAYLAB PLAN, ELEVATIONS, AND DETAILS

Sheet Number
A323



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Revision Date

City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
INTERIOR ELEVATIONS

Sheet Number

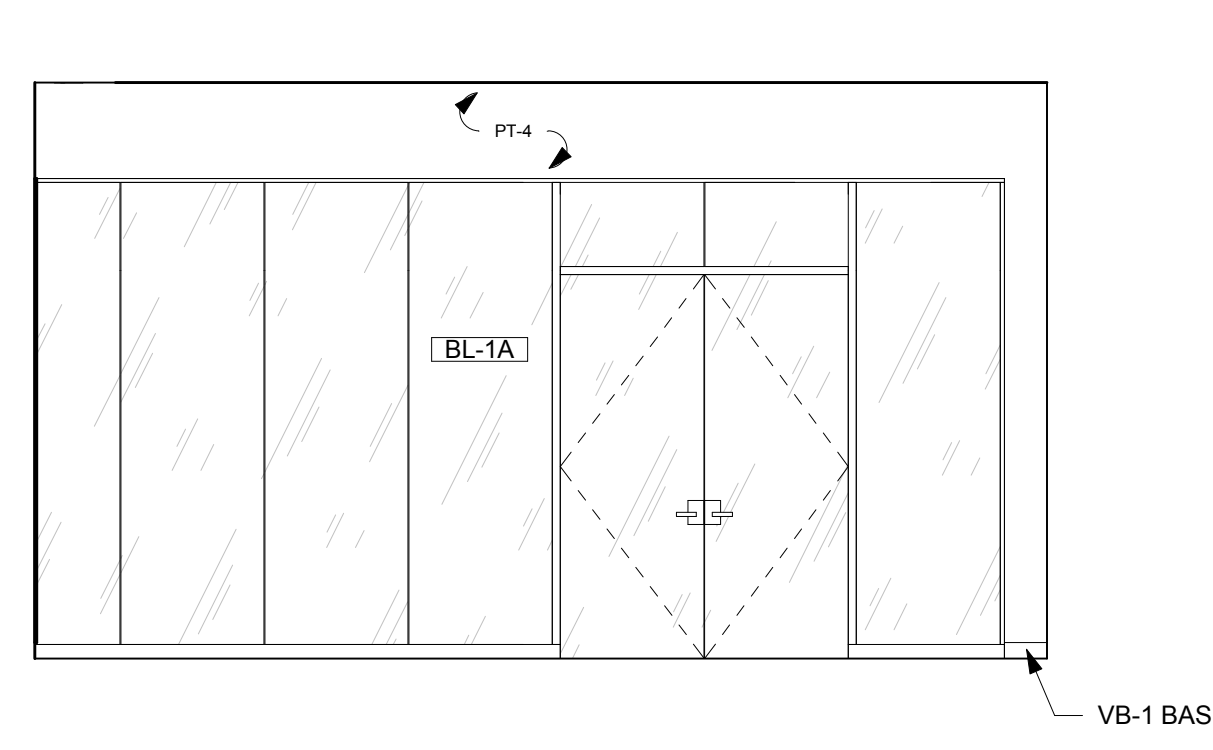
GENERAL NOTES

- COORDINATE FINAL LOCATION OF FIRE ALARMS, THERMOSTATS AND EMERGENCY LIGHTS WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO FINISH PLANS, FINISH SCHEDULE, AND FINISH SPECIFICATION FOR ADDITIONAL WALL FINISH INFORMATION.
- REFER TO DOOR AND BORROWED LIGHT ELEVATIONS AND SCHEDULE FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE COUNTERTOP BRACKET SUPPORTS @ 3'-0" O.C. FURNITURE SHOWN AS DASHED LINES SHOWN FOR REFERENCE ONLY.
- REFER TO SHEET A600Z FOR TYPICAL MOUNTING HEIGHTS.

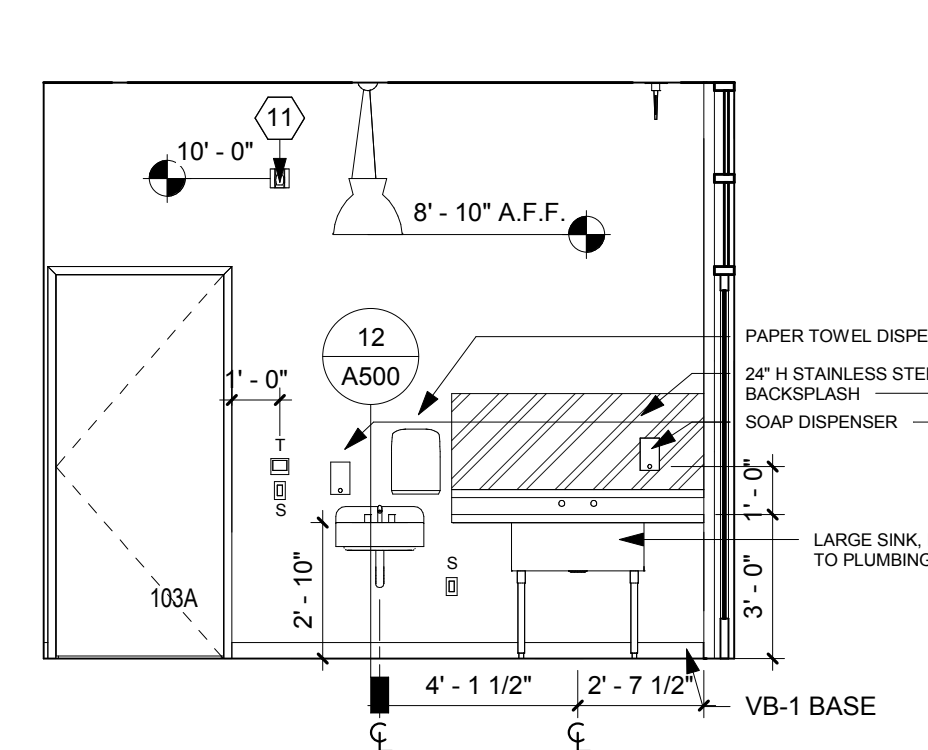
MEP COORDINATION ABBREVIATIONS
O = OUTLET
S = LIGHT SWITCH
J = SHADE CONTROLS
T = THERMOSTAT
D = DATA OUTLET
C2 = CARBON DIOXIDE SENSOR
H = HUMIDISTAT SENSOR
CR = CARD READER
ADA = ADA WAVE ACTUATOR
FP = AUDIOVISUAL FACEPLATE
SP = SPEAKER

INT. ELEVATION KEYNOTES

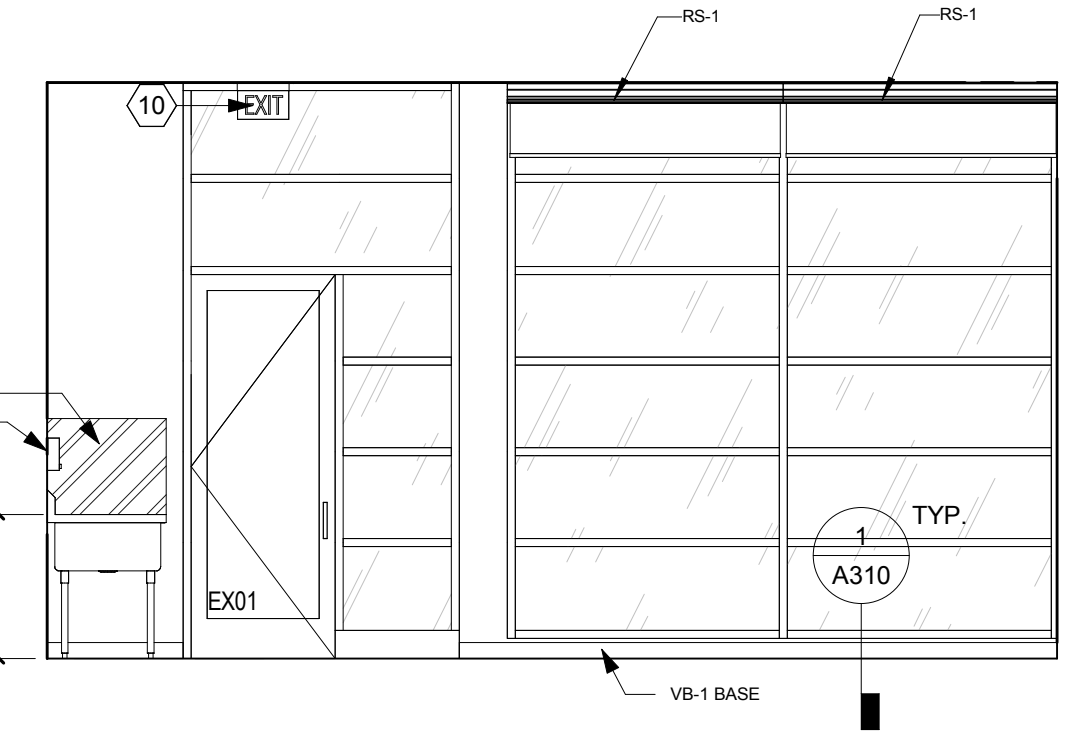
#	NOTE
1	FRAMED OPENING, WD-1
2	CONTINUOUS 1/2" ALUMINUM REVEAL, MITER CORNERS
3	ALUMINUM REVEAL/PICTURE HANGER. REFER TO DETAIL 11.1/A311
4	DIGITAL ROOM SCHEDULER. REFER TO TECHNOLOGY DRAWINGS
5	FRAMED OPENING, QZ-3
6	ACRYLIC RESIN (AR-1) CIRCLE WINDOW. REFER TO DETAIL 11/A322
7	ACRYLIC RESIN (AR-1) CIRCLE. REFER TO DETAIL 6/A312
8	PROVIDE OUTLET AT BACK OF STORAGE CABINET. REFER TO ELECTRICAL DRAWINGS
9	WALL MOUNTED EDGE LIT EXIT SIGN. REFER TO ELECTRICAL DRAWINGS
10	CEILING MOUNTED EDGE LIT EXIT SIGN. REFER TO ELECTRICAL DRAWINGS
11	FIRE ALARM NOTIFICATION. REFER TO ELECTRICAL DRAWINGS
12	ALUMINUM SURFACE MOUNT PICTURE HANGER. REFER TO DETAIL 11.2/A311



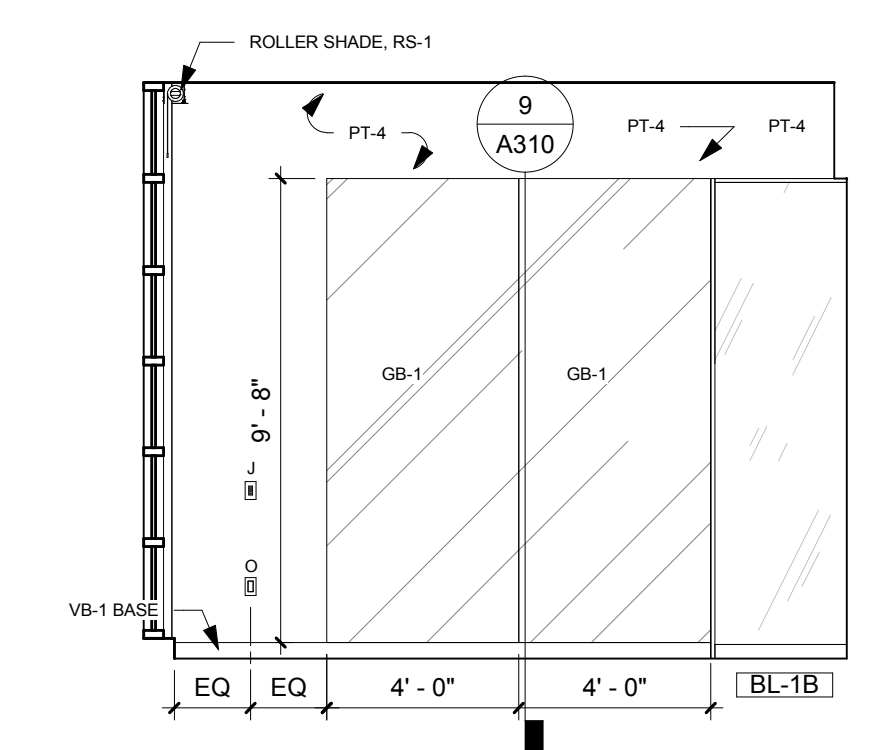
22 CREATOR SPACE - NORTH
1/4" = 1'-0"



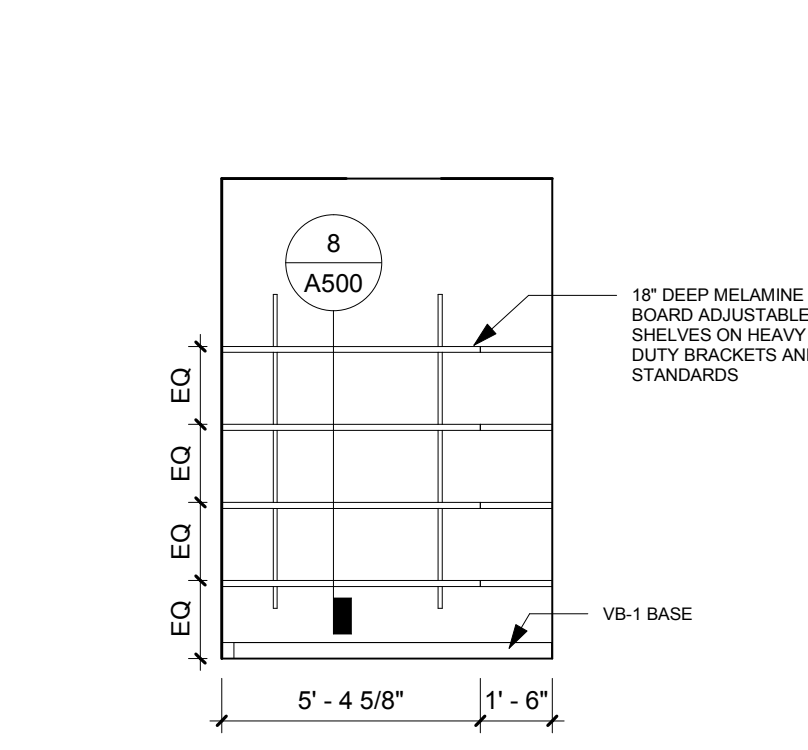
21 CREATOR SPACE - EAST
1/4" = 1'-0"



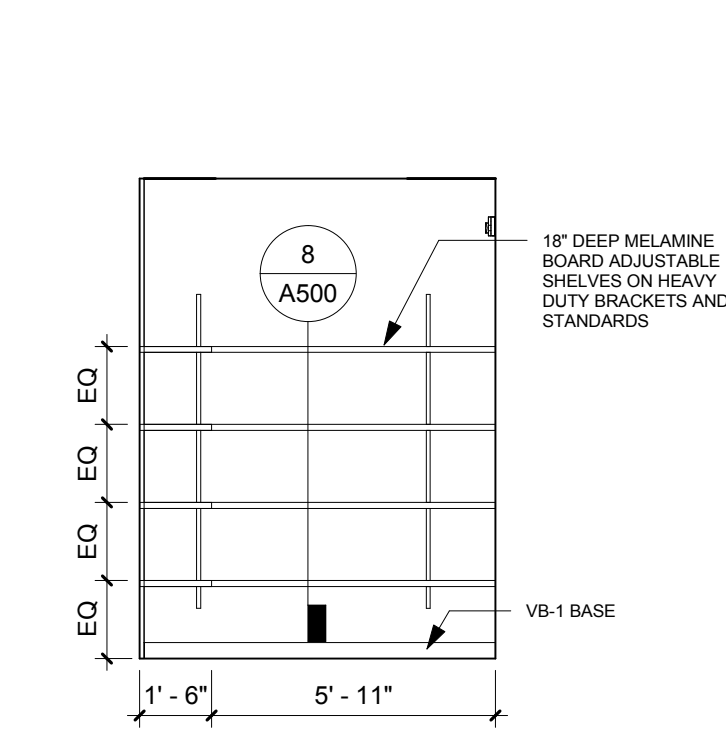
20 CREATOR SPACE - SOUTH
1/4" = 1'-0"



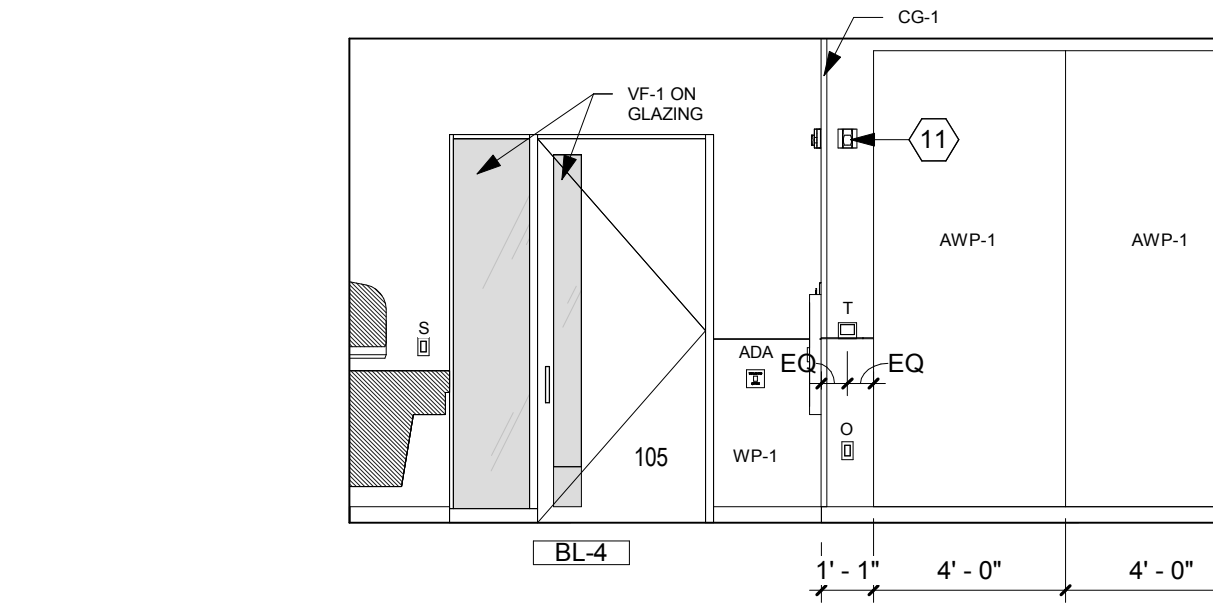
19 CREATOR SPACE - WEST
1/4" = 1'-0"



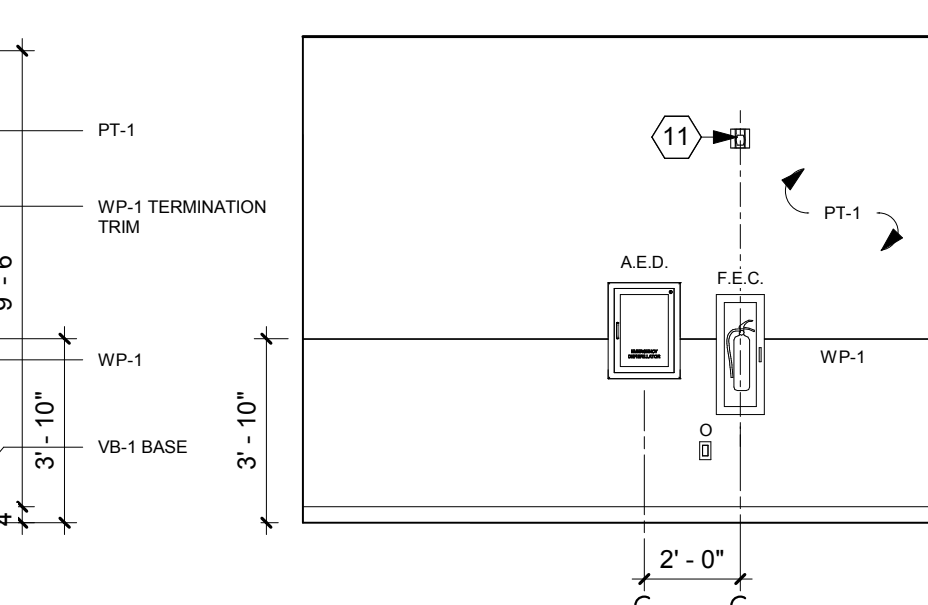
18 CREATOR STORAGE - EAST
1/4" = 1'-0"



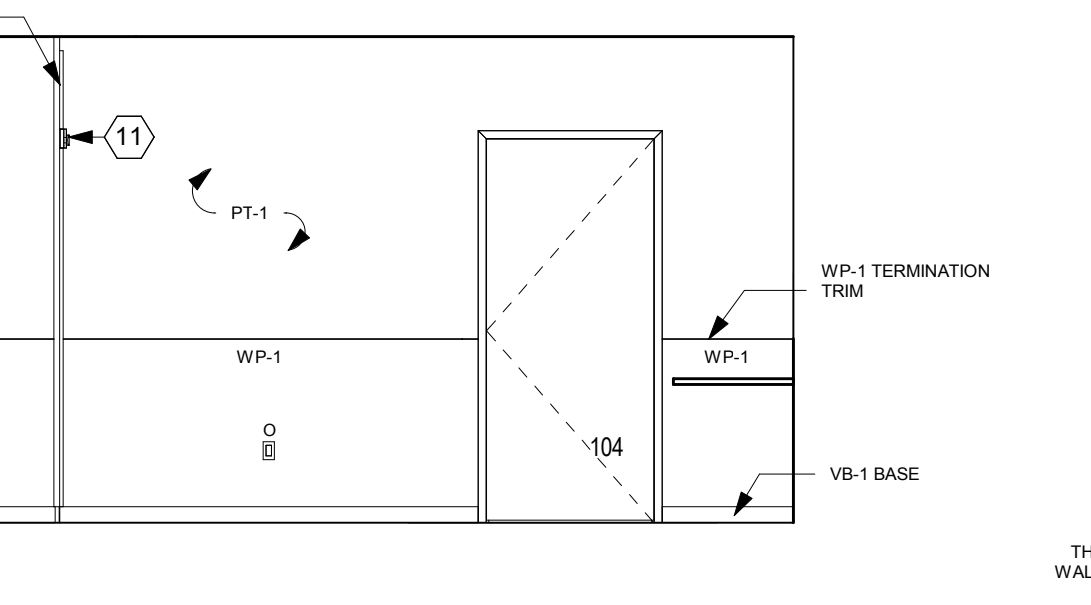
17 CREATOR STORAGE - SOUTH
1/4" = 1'-0"



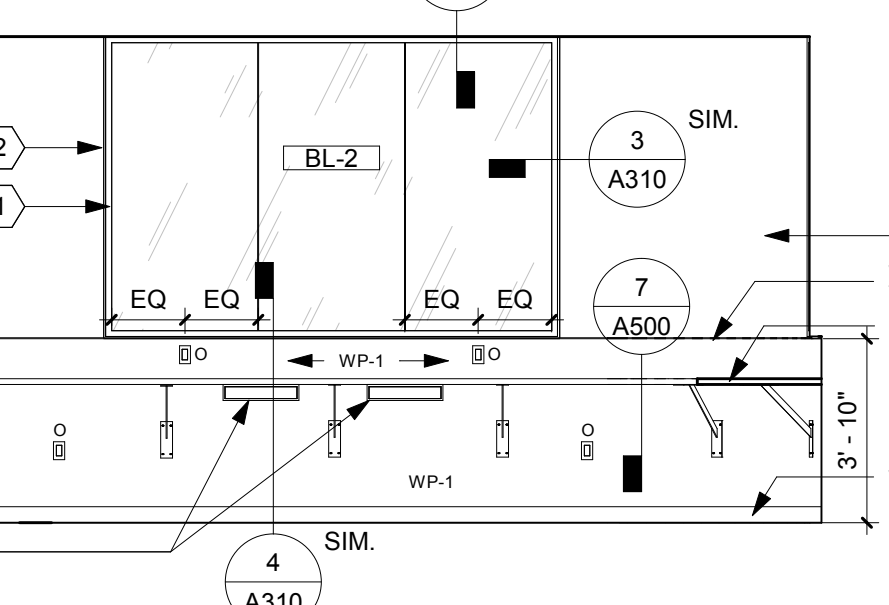
16 SORTING / CIRC. WORK - NORTH
1/4" = 1'-0"



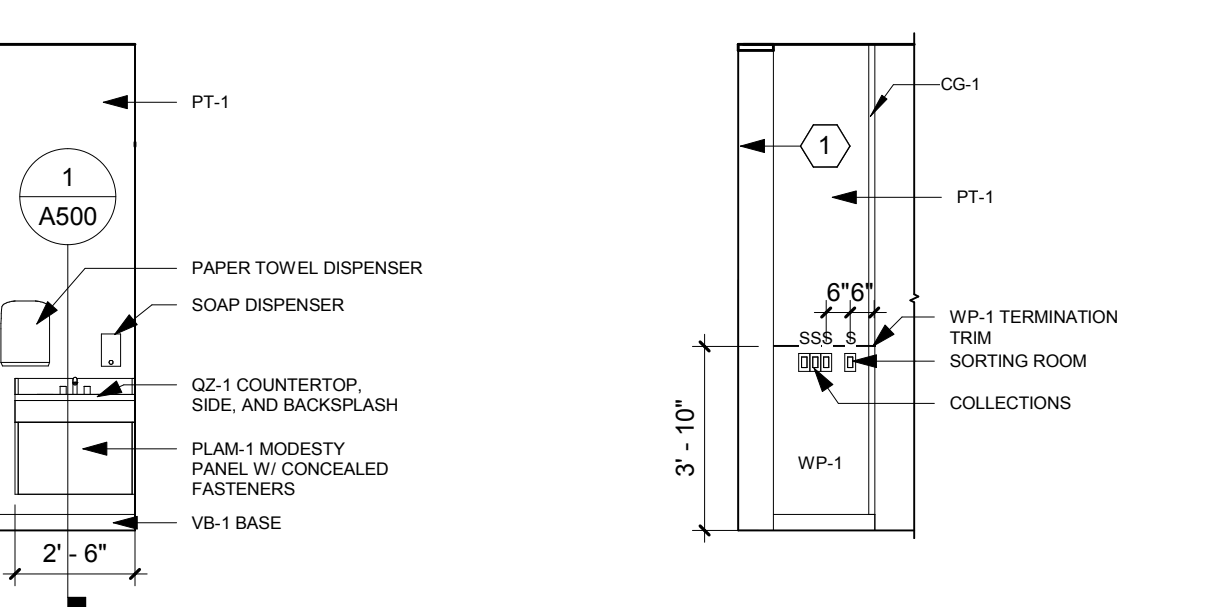
15 SORTING / CIRC. WORK - EAST
1/4" = 1'-0"



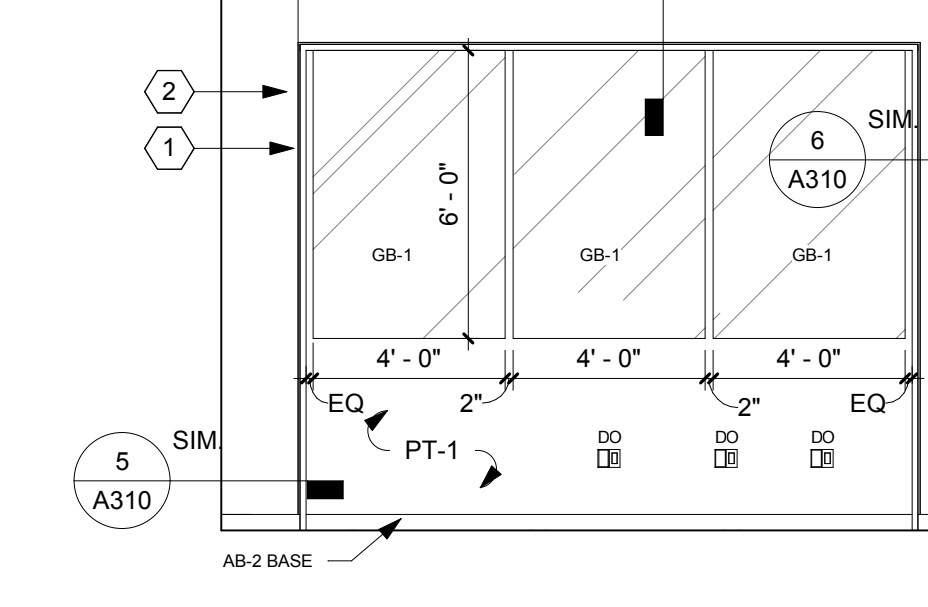
14 SORTING / CIRC. WORK - SOUTH
1/4" = 1'-0"



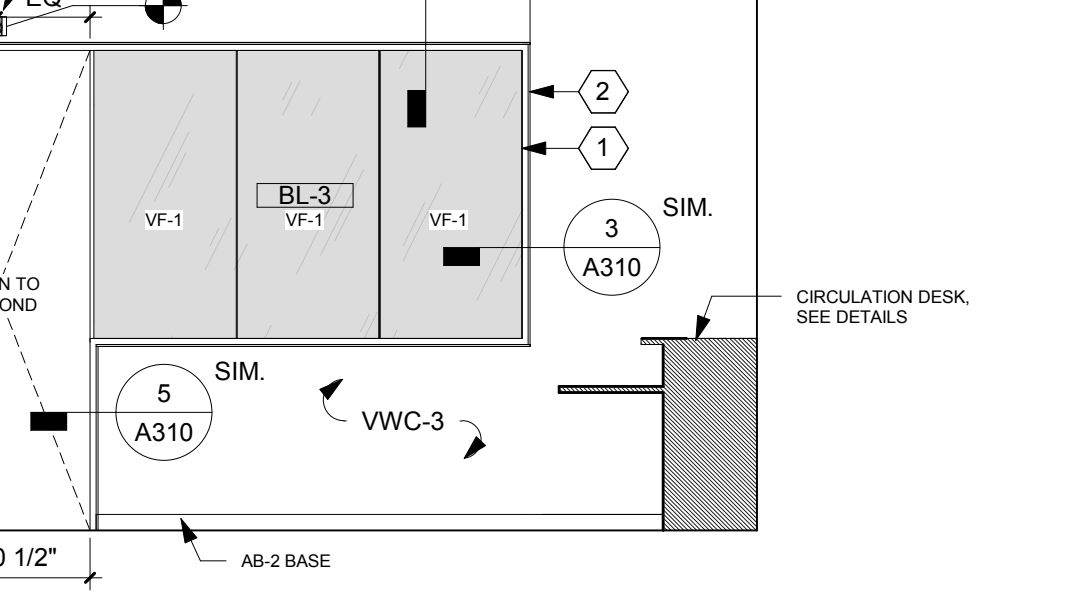
13 SORTING / CIRC. WORK - WEST
1/4" = 1'-0"



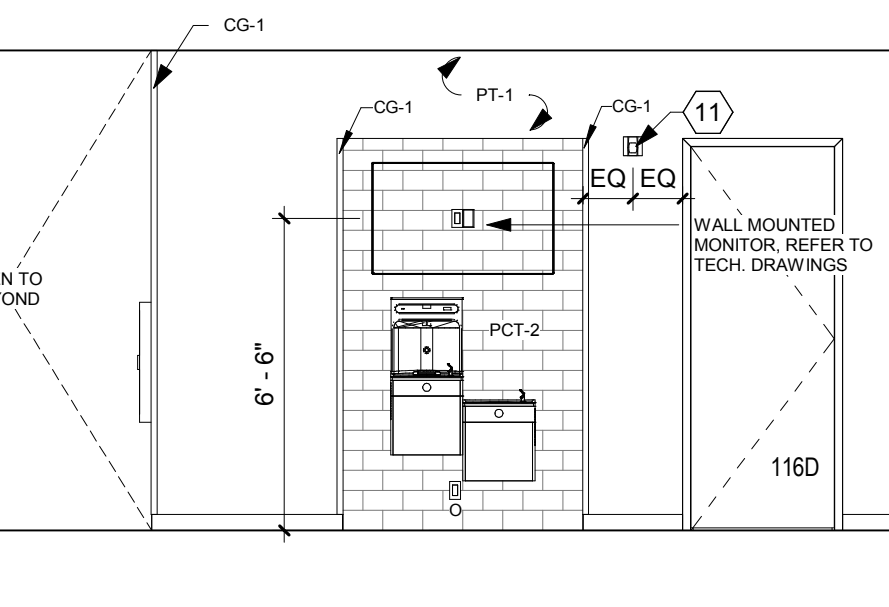
12 SORTING / CIRC. WORK - WEST
1/4" = 1'-0"



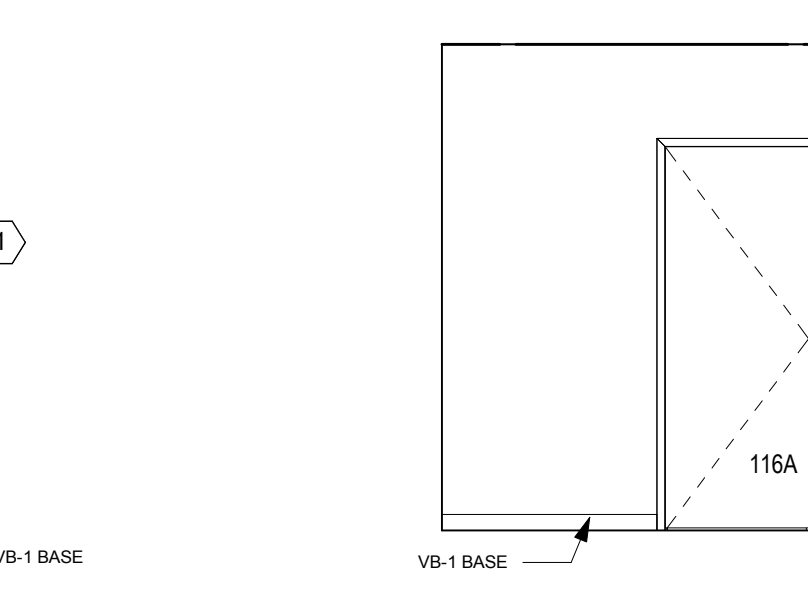
11 SORTING / CIRC. WORK - WING WALL
1/4" = 1'-0"



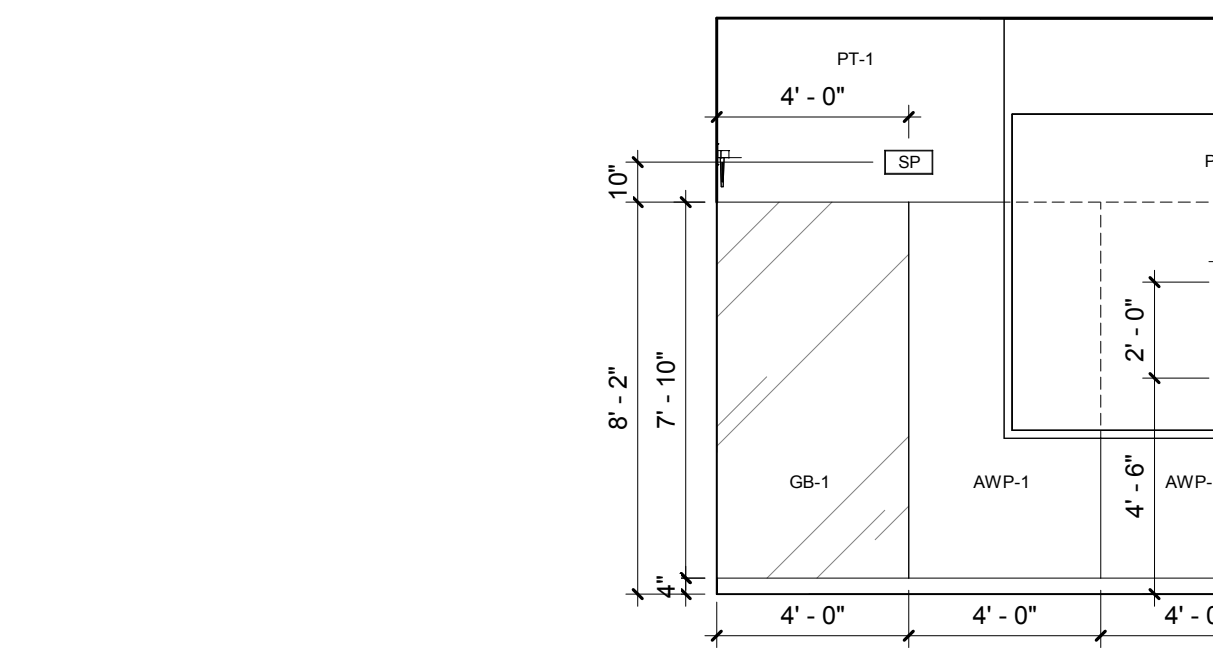
10 BUSINESS CENTER - EAST
1/4" = 1'-0"



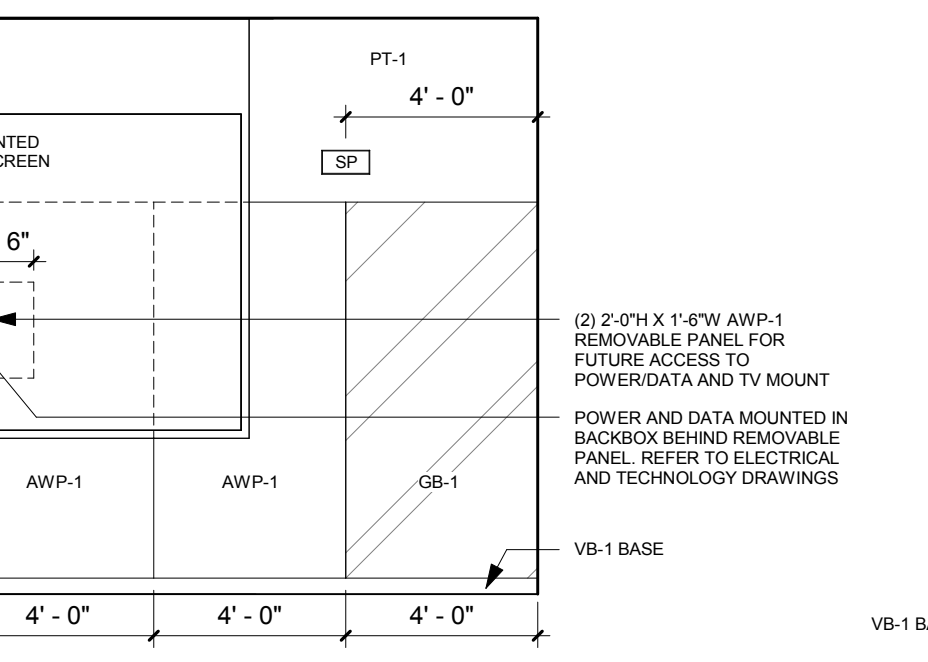
9 PUBLIC RESTROOMS CORRIDOR - EAST
1/4" = 1'-0"



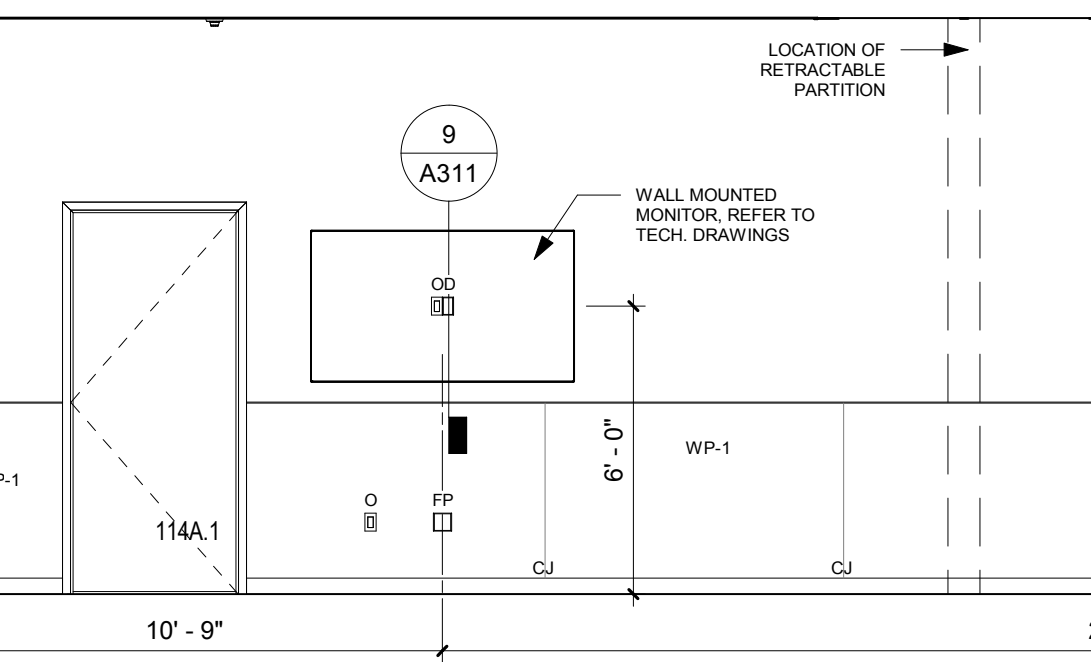
8 PUBLIC RESTROOM COORIDOR - WEST
1/4" = 1'-0"



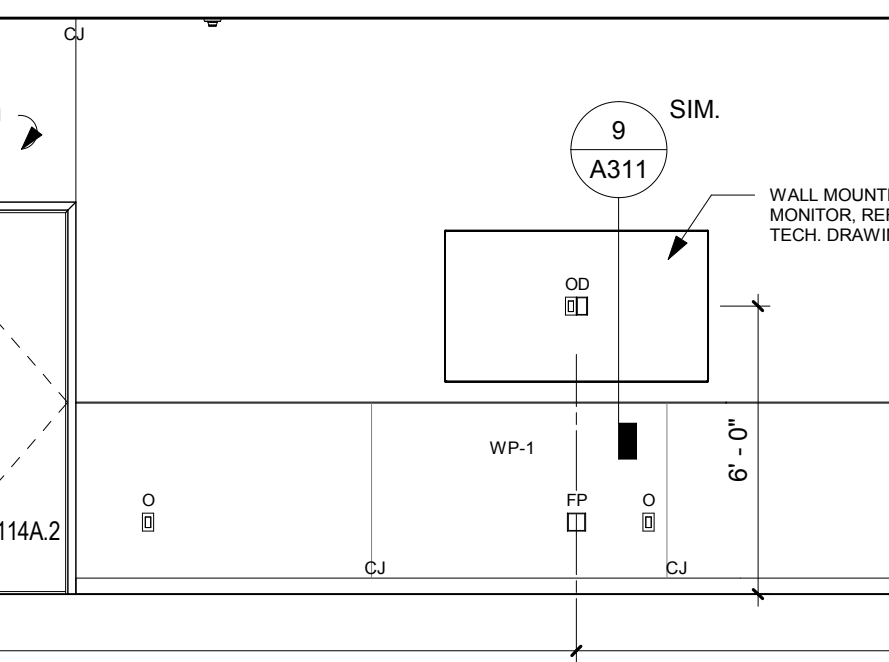
7 COMMUNITY ROOM - EAST
1/4" = 1'-0"



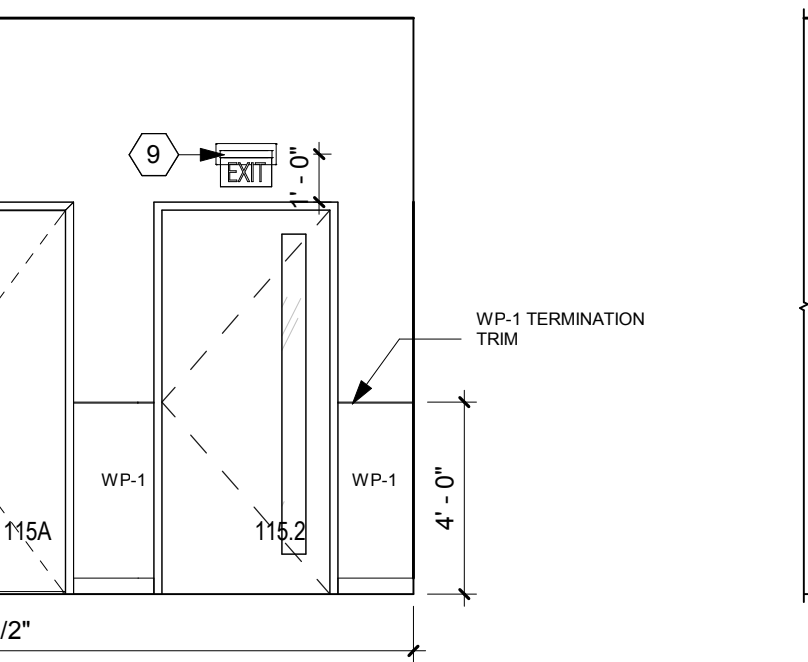
6 COMMUNITY ROOM - NORTH
1/4" = 1'-0"



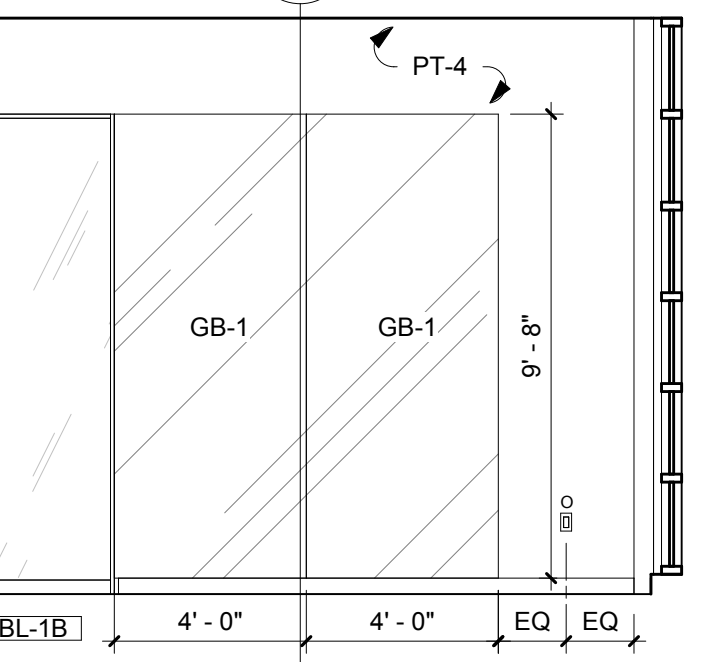
3 COMMUNITY ROOM - WEST
1/4" = 1'-0"



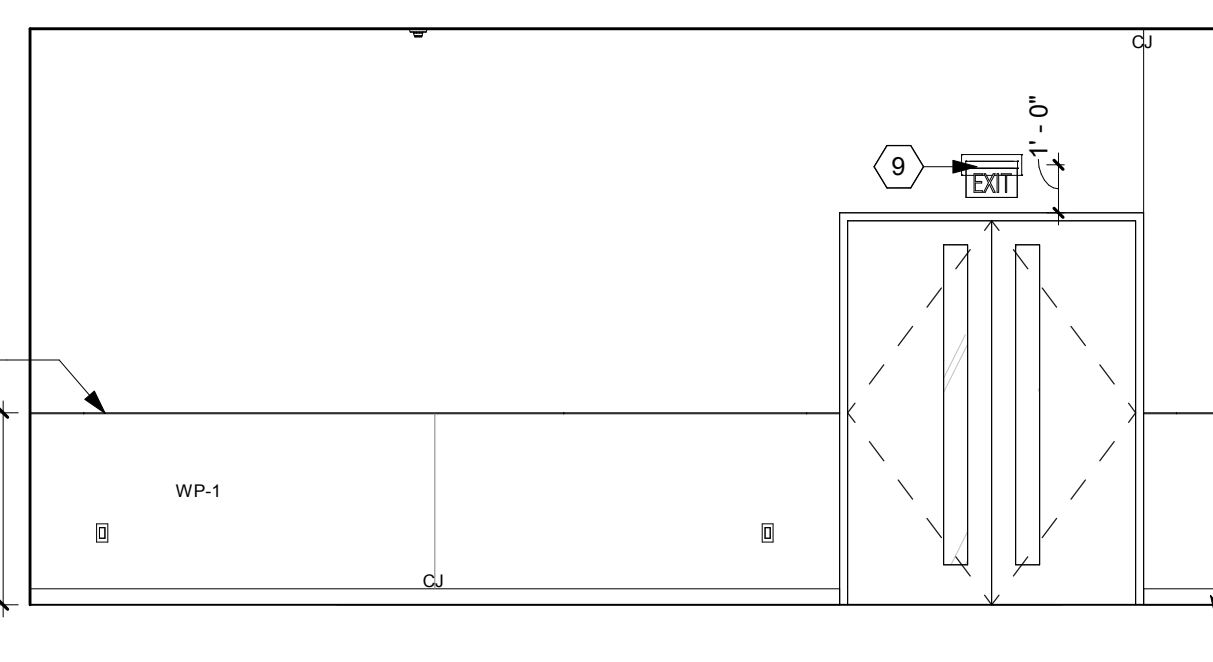
5 TEEN COLLECTIONS - EAST
1/4" = 1'-0"



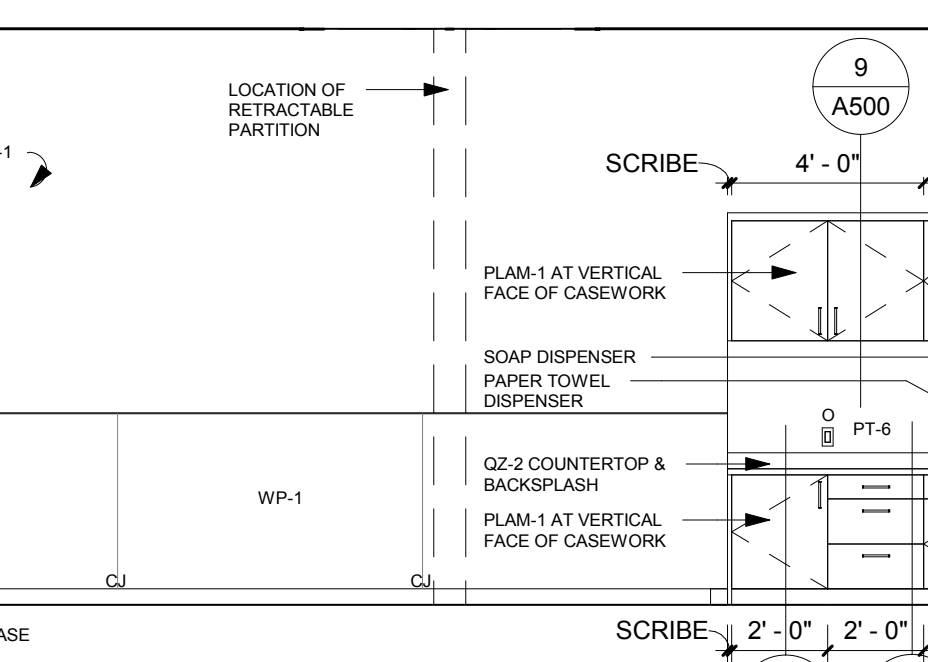
2 STUDY ROOM 109 - WEST
1/4" = 1'-0"



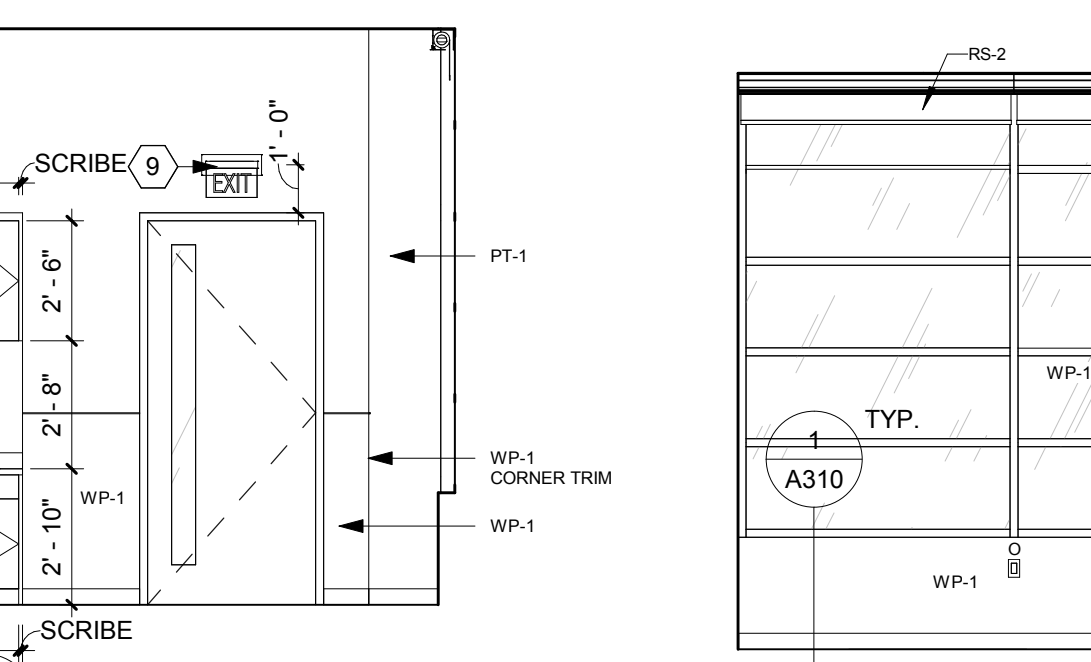
1 STUDY ROOM 110 - EAST
1/4" = 1'-0"



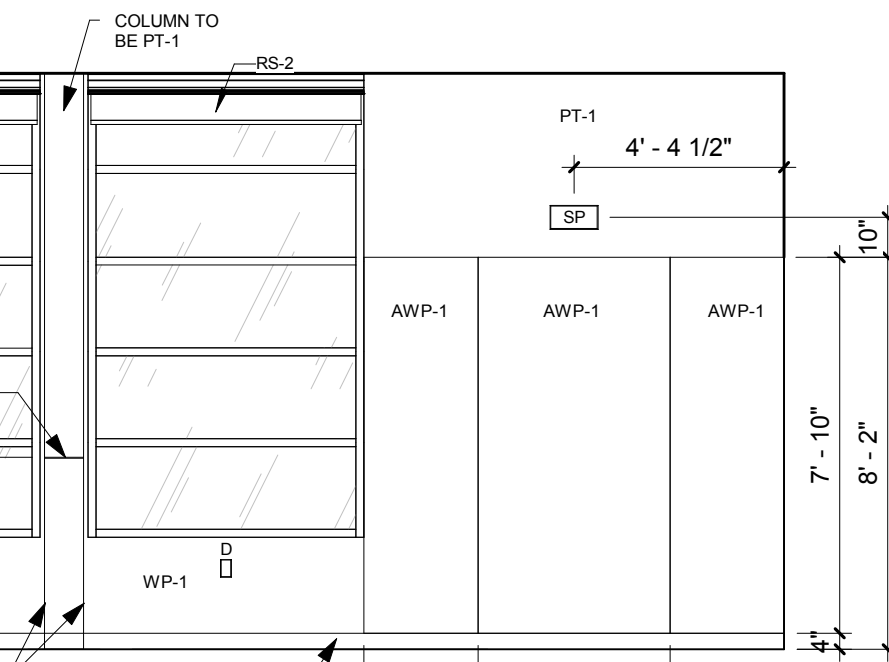
4 COMMUNITY ROOM - SOUTH
1/4" = 1'-0"



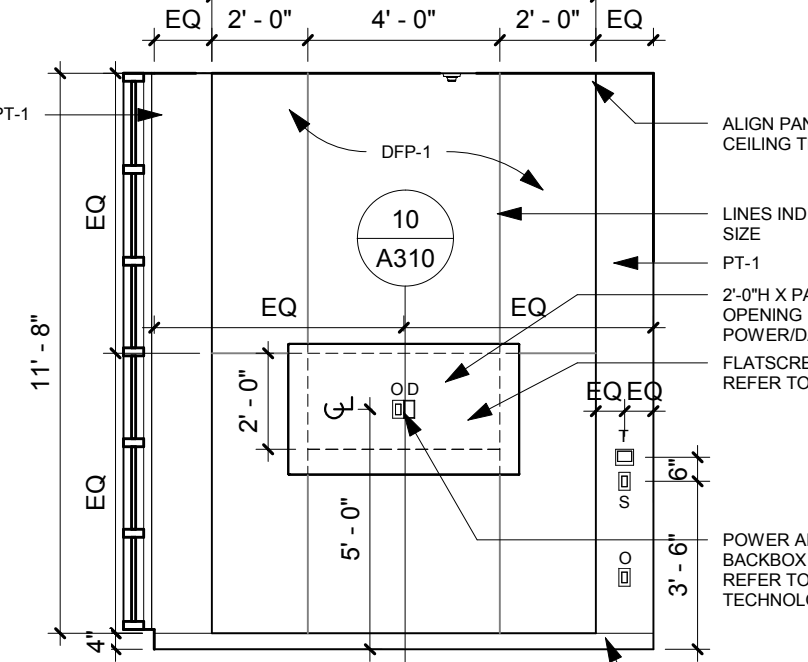
3 COMMUNITY ROOM - WEST
1/4" = 1'-0"



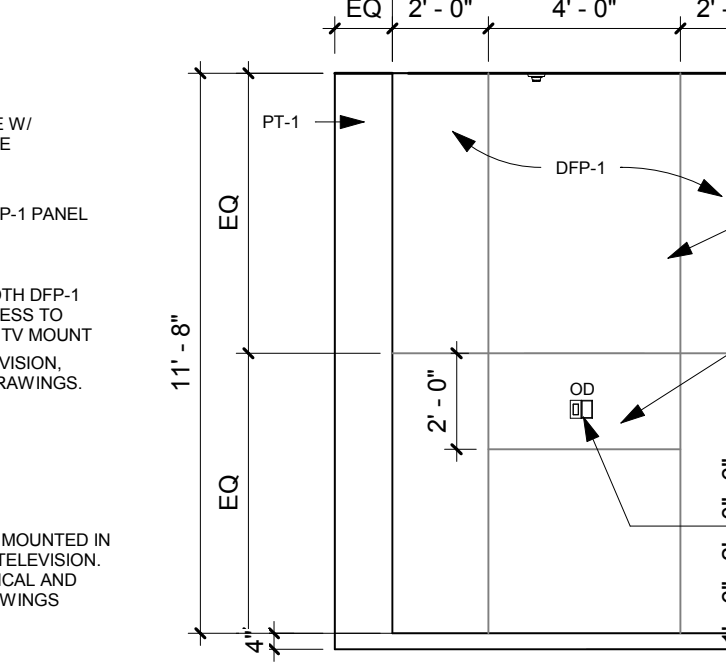
3 COMMUNITY ROOM - WEST
1/4" = 1'-0"



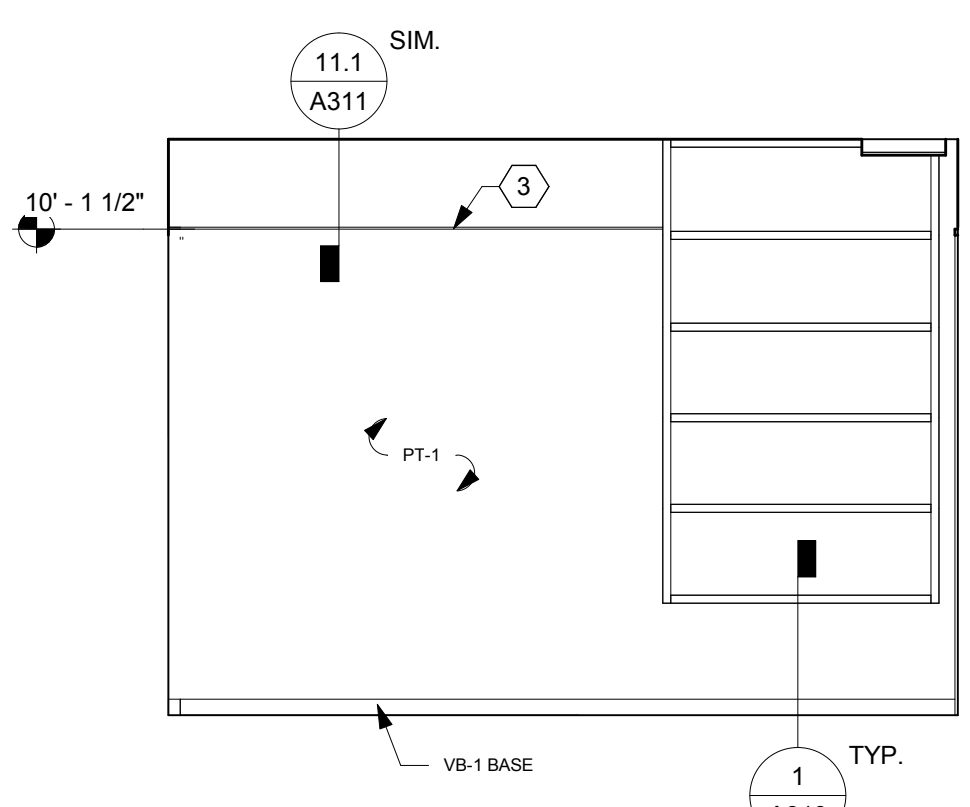
2 STUDY ROOM 109 - WEST
1/4" = 1'-0"



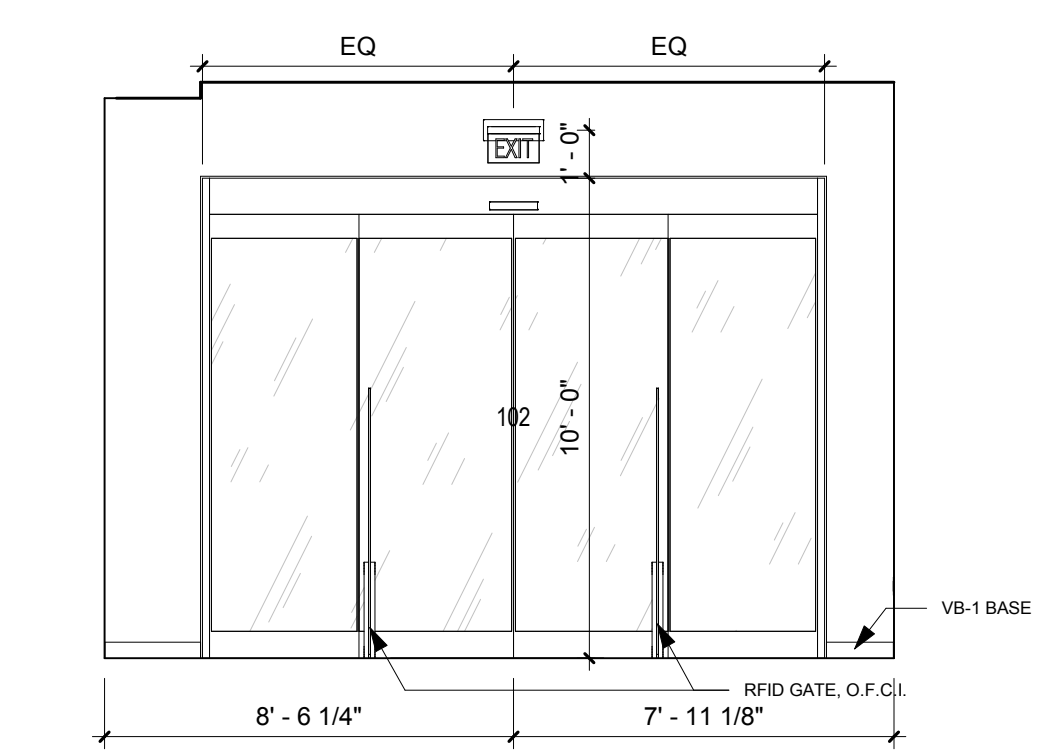
2 STUDY ROOM 109 - WEST
1/4" = 1'-0"



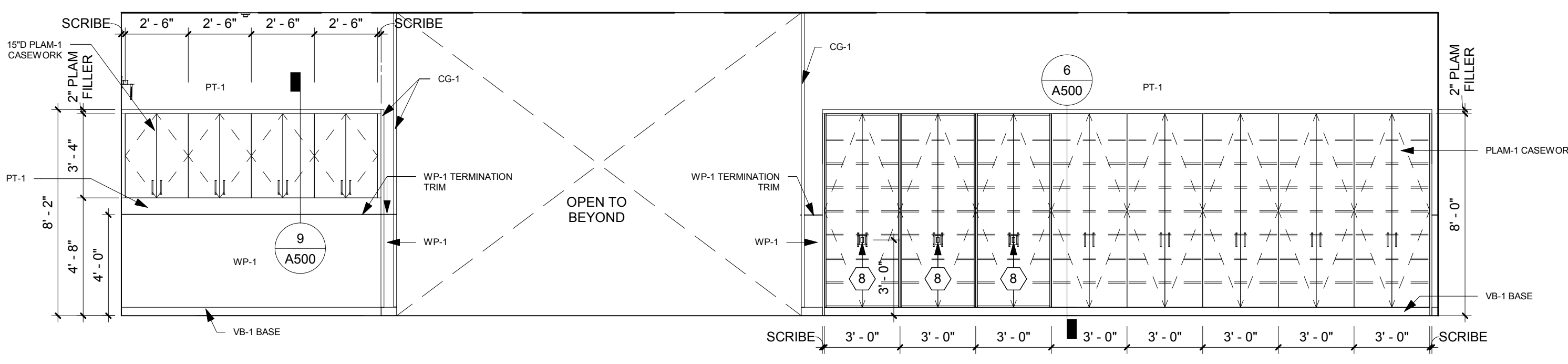
1 STUDY ROOM 110 - EAST
1/4" = 1'-0"



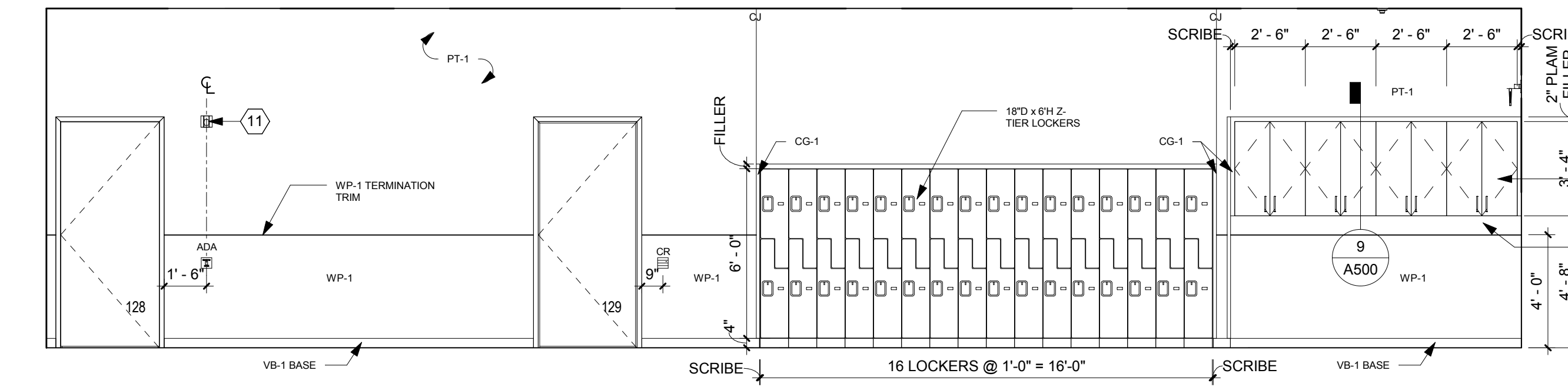
21 ADULT COLLECTION - WEST
1/4" = 1'-0"



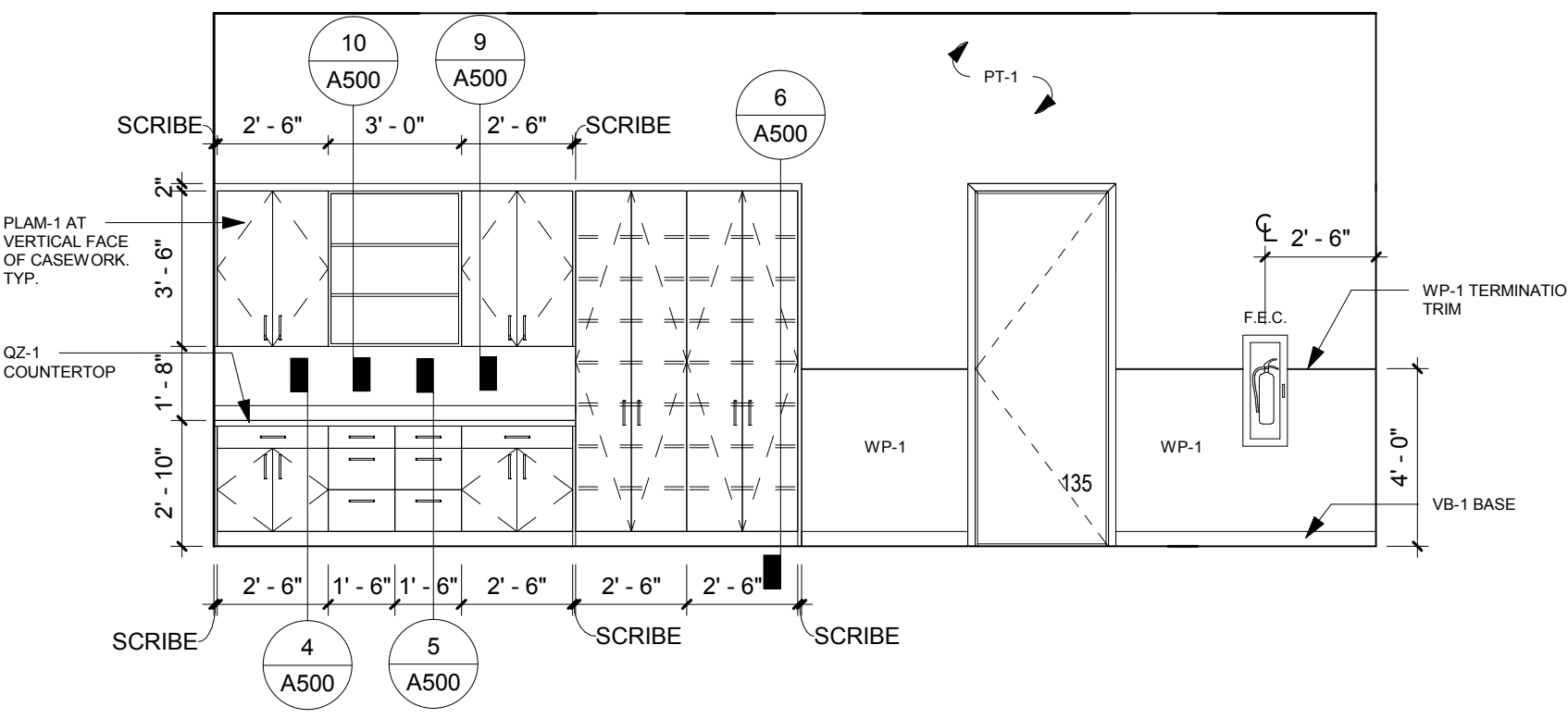
20 LOBBY - EAST
1/4" = 1'-0"



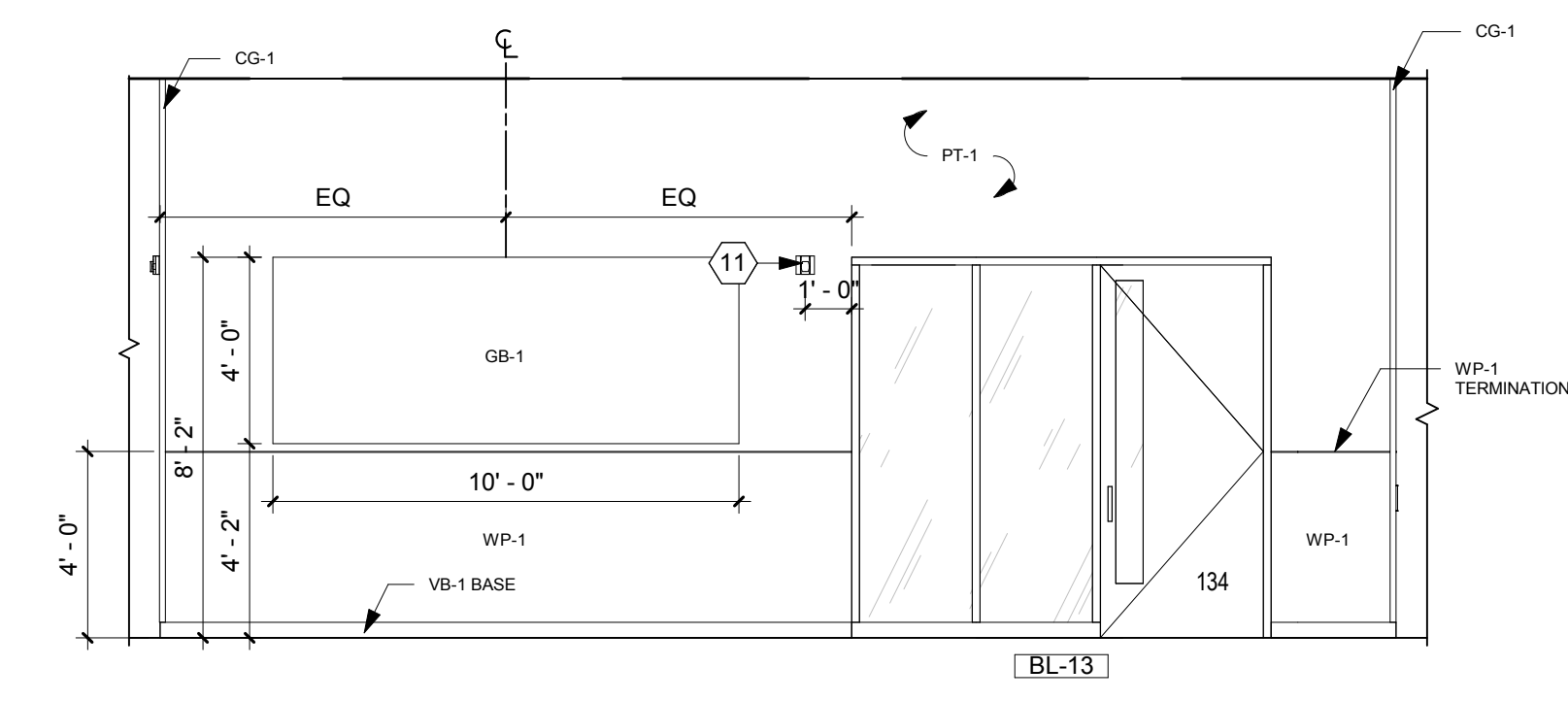
19 SHIPPING/RECEIVING - NORTH
1/4" = 1'-0"



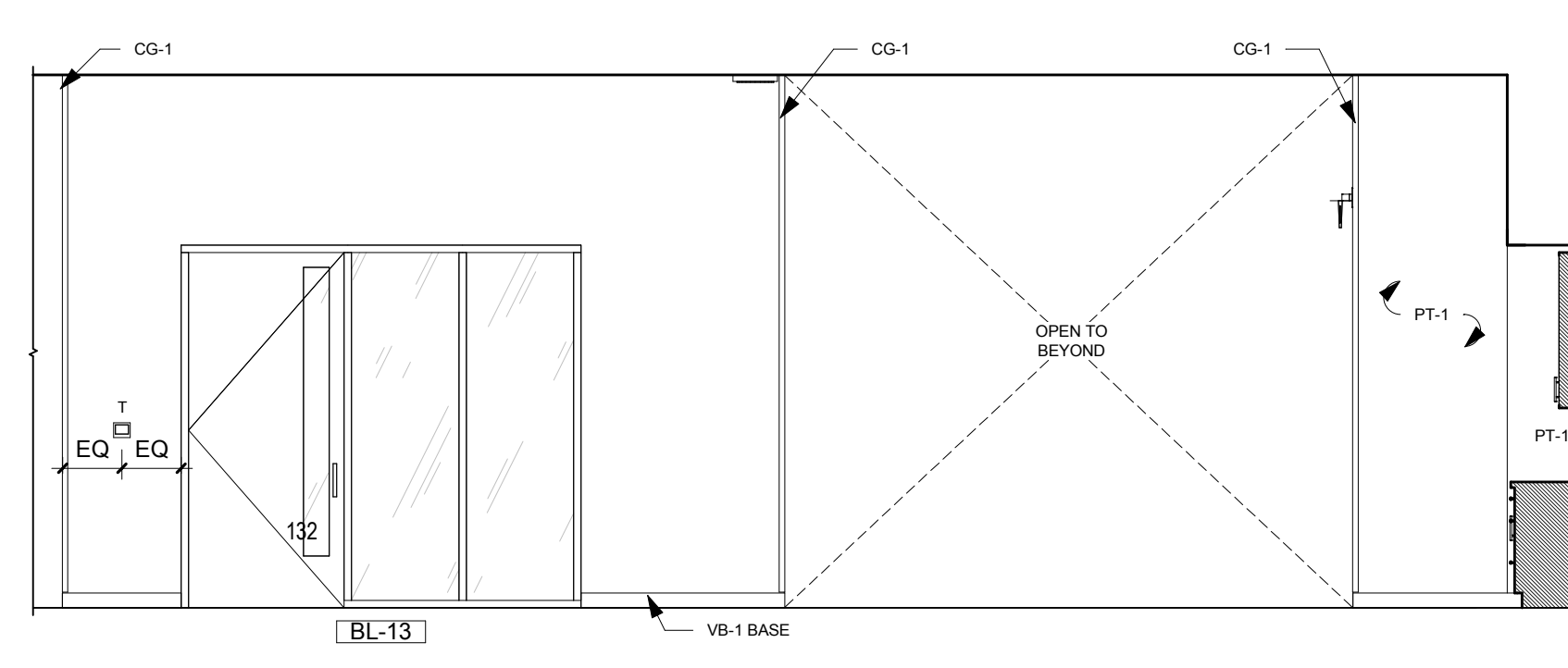
18 SHIPPING/RECEIVING - SOUTH
1/4" = 1'-0"



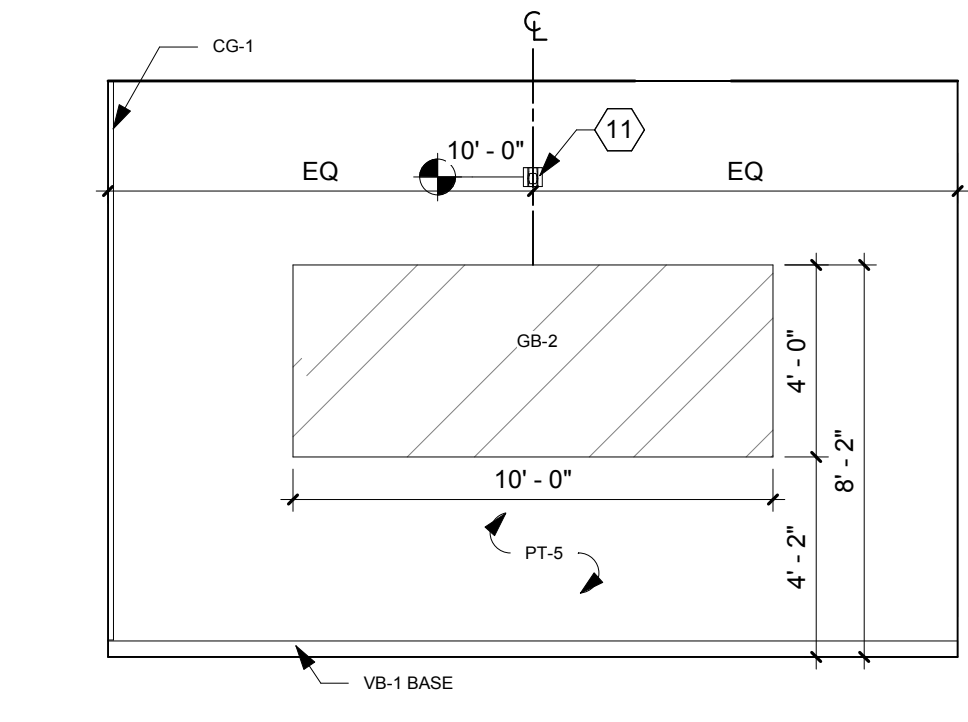
17 PROJECT WORK ROOM - NORTH
1/4" = 1'-0"



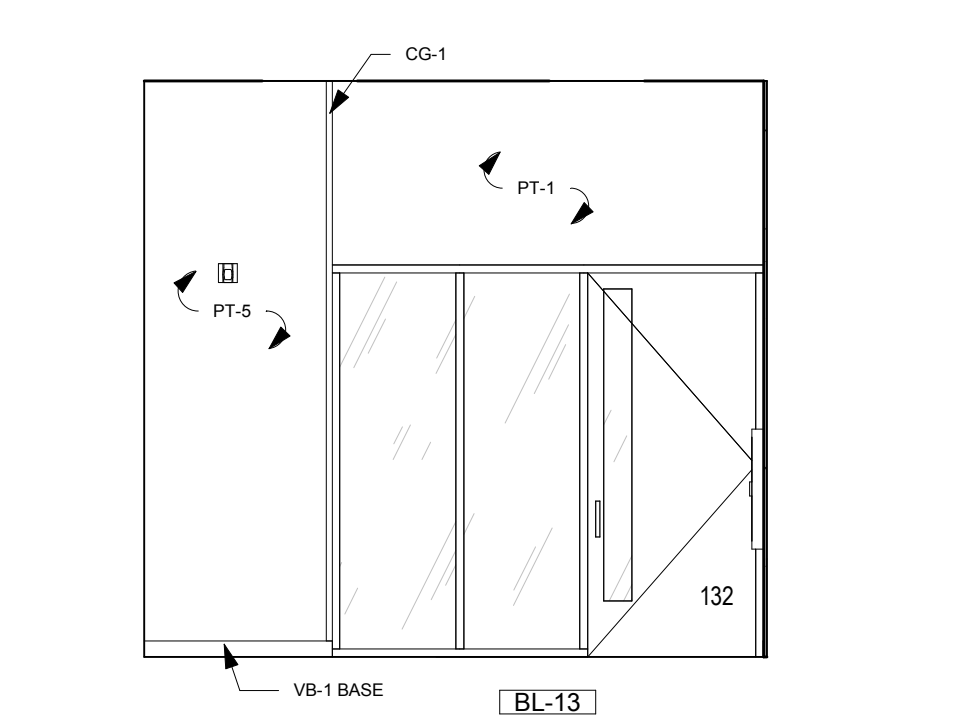
16 PROJECT WORK ROOM - EAST
1/4" = 1'-0"



15 PROJECT WORK ROOM ISLAND - WEST
1/4" = 1'-0"



14 PROJECT WORK ROOM - SOUTH
1/4" = 1'-0"

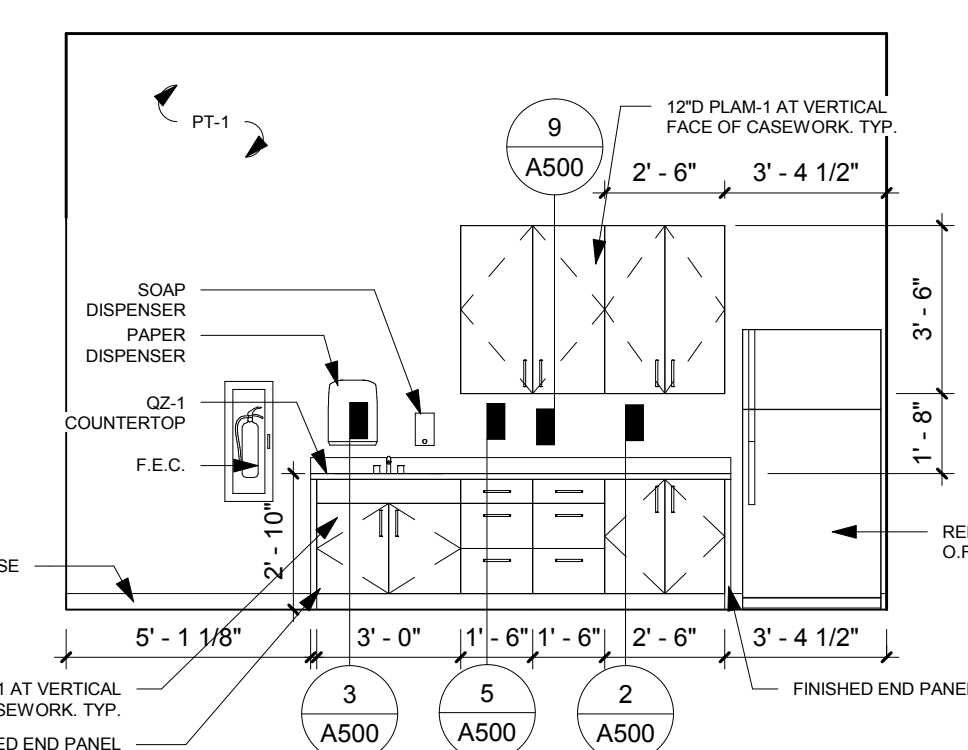


13 BREAK ROOM - EAST
1/4" = 1'-0"

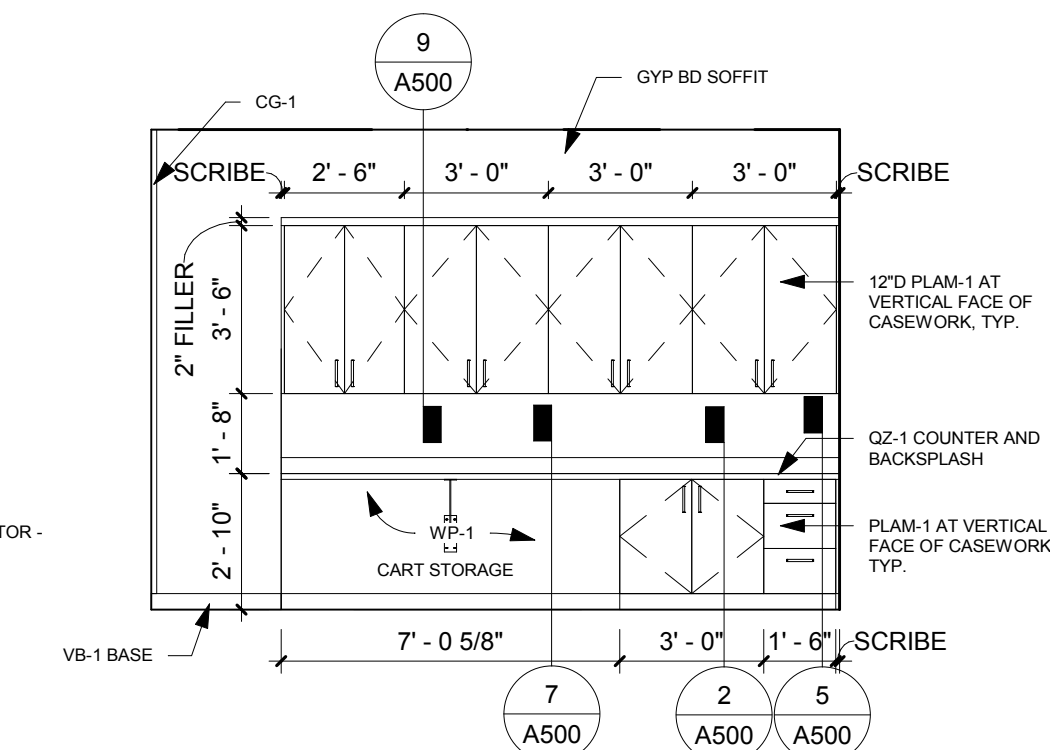
- GENERAL NOTES**
- COORDINATE FINAL LOCATION OF FIRE ALARMS, THERMOSTATS AND EMERGENCY LIGHTS WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO FINISH PLANS, FINISH SCHEDULE, AND FINISH SPECIFICATION FOR ADDITIONAL WALL FINISH INFORMATION.
 - REFER TO DOOR AND BORROWED LIGHT ELEVATIONS AND SCHEDULE FOR DOOR AND INTERIOR GLAZING INFORMATION.
 - DIMENSIONS ARE MEASURED FROM FACE-OF-FINISH TO FACE-OF-FINISH UNLESS NOTED OTHERWISE.
 - REFER TO SHEET A500 FOR ALL TYPICAL CASEWORK DETAILS.
 - ALL MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE COUNTERTOP BRACKET SUPPORTS @ 3'-0" O.C.
 - FURNITURE SHOWN AS DASHED LINES SHOWN FOR REFERENCE ONLY.
 - REFER TO SHEET A500 FOR TYPICAL MOUNTING HEIGHTS.

- MEP COORDINATION ABBREVIATIONS**
- O = OUTLET
 - S = LIGHT SWITCH
 - J = SHADE CONTROLS
 - T = THERMOSTAT
 - D = DATA OUTLET
 - C2 = CARBON DIOXIDE SENSOR
 - H = HUMIDISTAT SENSOR
 - CR = CARD READER
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 - FP = AUDIOVISUAL FACEPLATE
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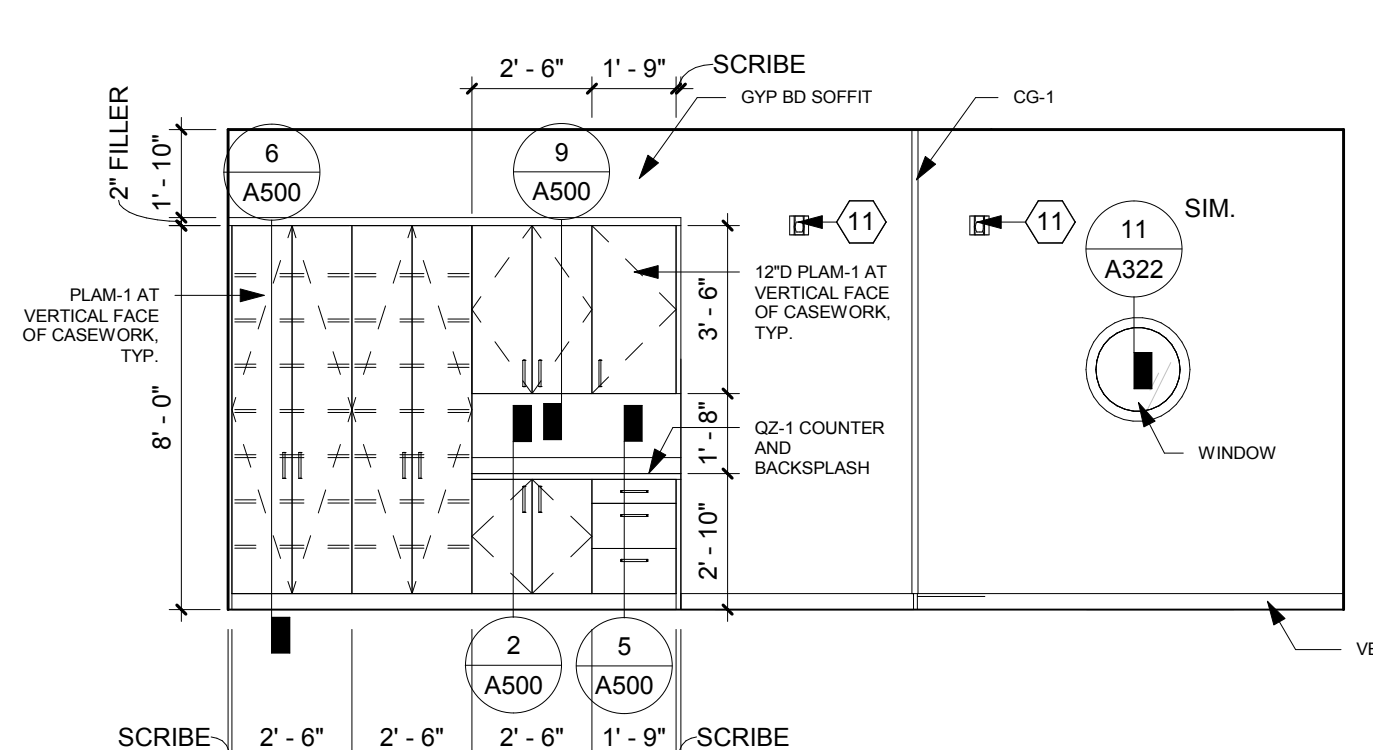
INT. ELEVATION KEYNOTES	NOTE
1	FRAMED OPENING, WD-1
2	CONTINUOUS 1/2" ALUMINUM REVEAL, MITER CORNERS
3	ALUMINUM REVEAL/PICTURE HANGER. REFER TO DETAIL 11.1/A311
4	DIGITAL ROOM SCHEDULER. REFER TO TECHNOLOGY DRAWINGS
5	FRAMED OPENING, QZ-3
6	ACRYLIC RESIN (AR-1) CIRCLE WINDOW. REFER TO DETAIL 11/A322
7	ACRYLIC RESIN (AR-1) CIRCLE. REFER TO DETAIL 6/A312
8	PROVIDE OUTLET AT BACK OF STORAGE CABINET. REFER TO ELECTRICAL DRAWINGS
9	WALL MOUNTED EDGE LIT EXIT SIGN. REFER TO ELECTRICAL DRAWINGS
10	CEILING MOUNTED EDGE LIT EXIT SIGN. REFER TO ELECTRICAL DRAWINGS
11	FIRE ALARM NOTIFICATION. REFER TO ELECTRICAL DRAWINGS
12	ALUMINUM SURFACE MOUNT PICTURE HANGER. REFER TO DETAIL 11.2/A311



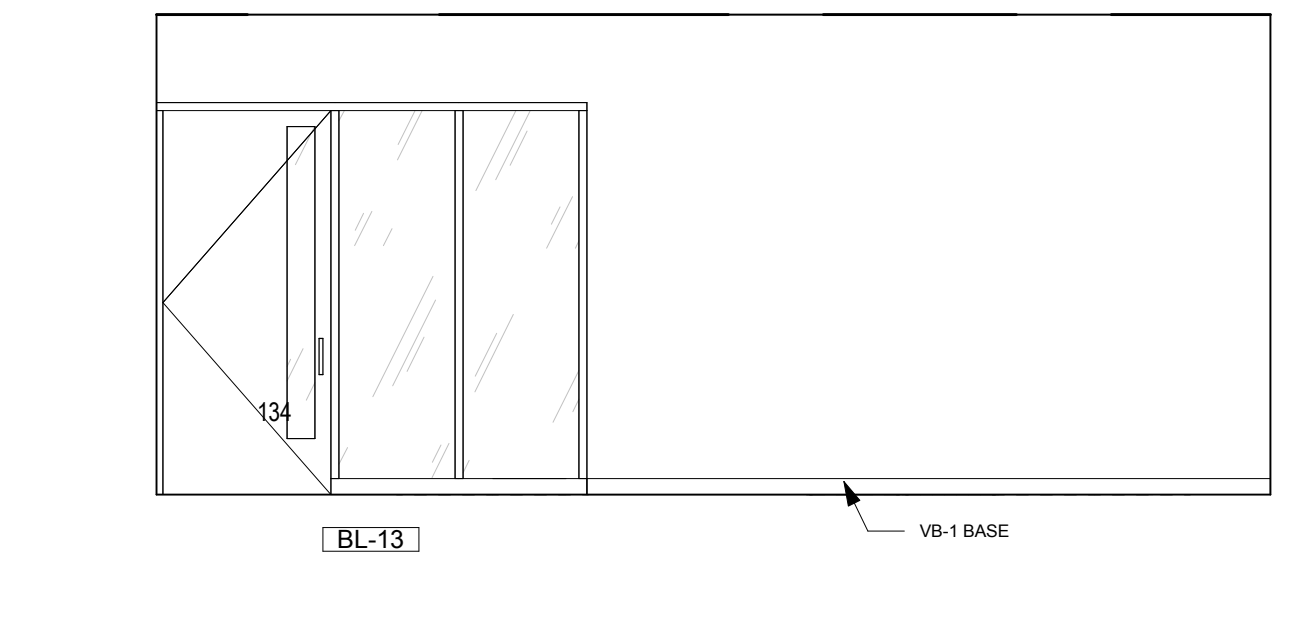
12 BREAK ROOM - SOUTH
1/4" = 1'-0"



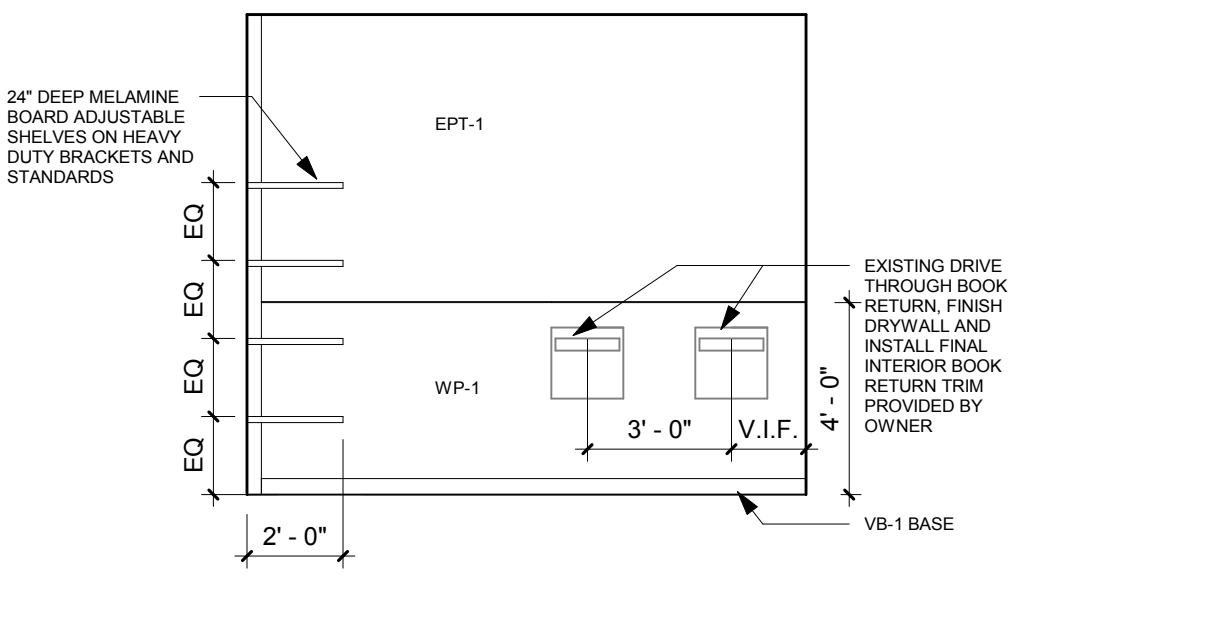
11 LIBRARIAN OFFICES - NORTH
1/4" = 1'-0"



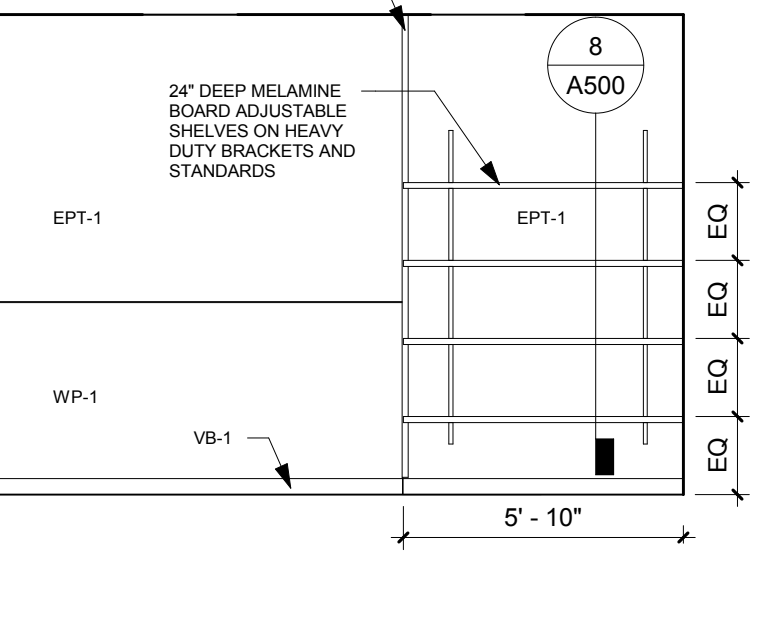
10 LIBRARIAN OFFICES - EAST
1/4" = 1'-0"



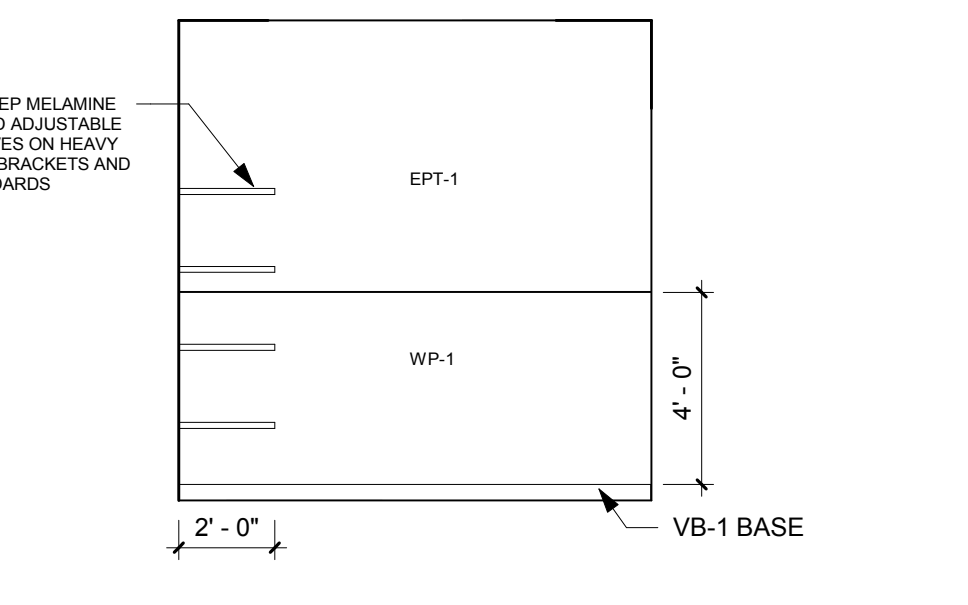
9 LIBRARIAN OFFICES - WEST
1/4" = 1'-0"



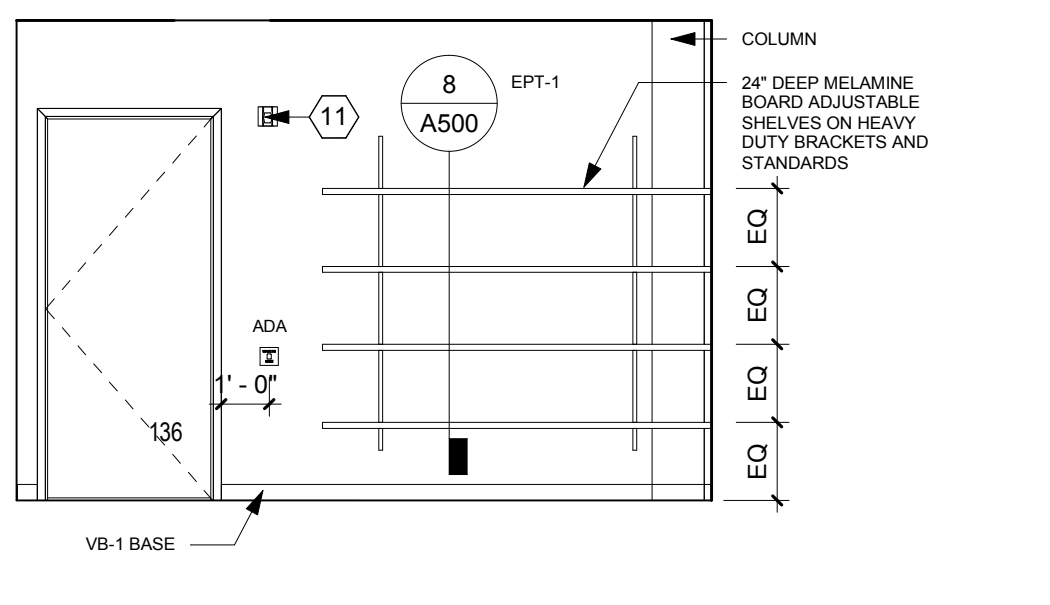
8 DRIVE-THRU BOOK RETURN - NORTH
1/4" = 1'-0"



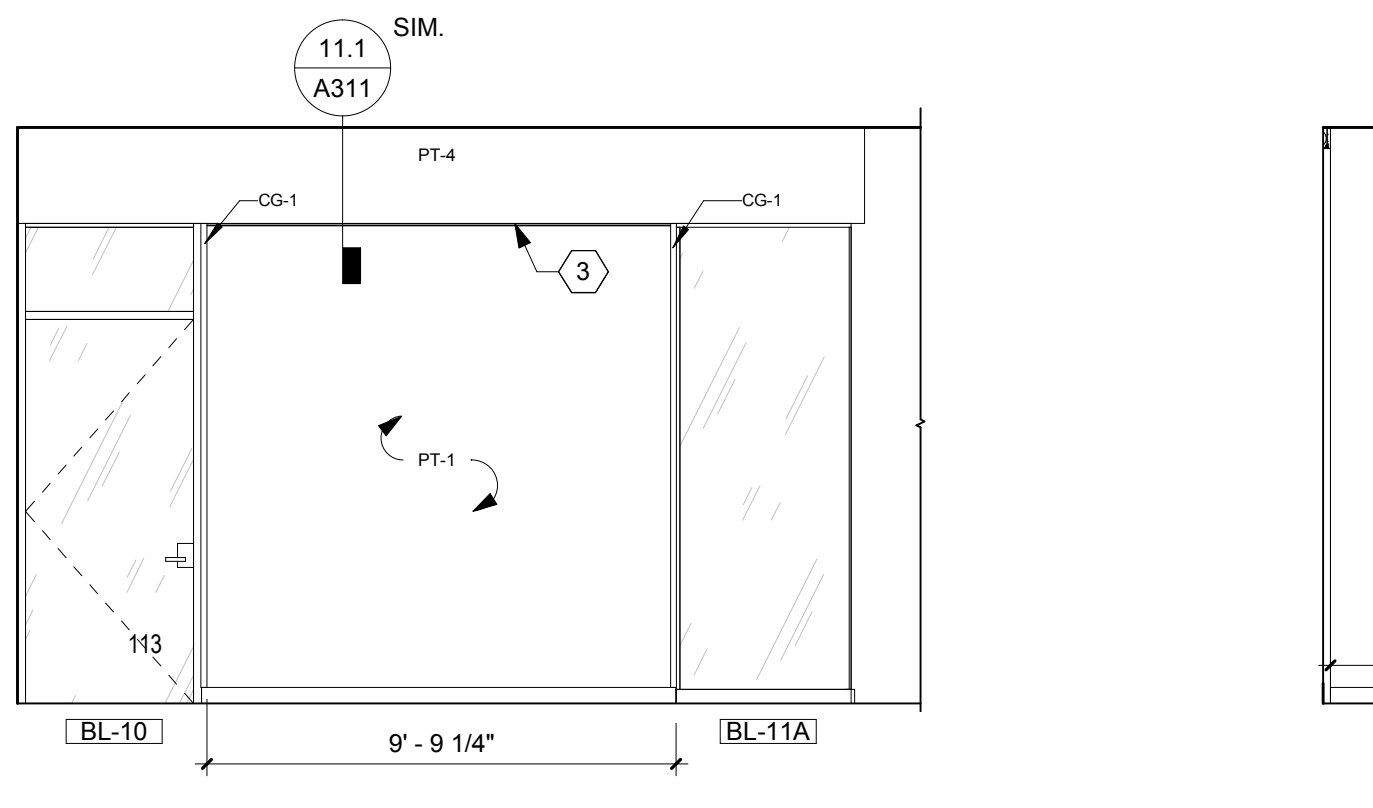
7 DRIVE-THRU BOOK RETURN - EAST
1/4" = 1'-0"



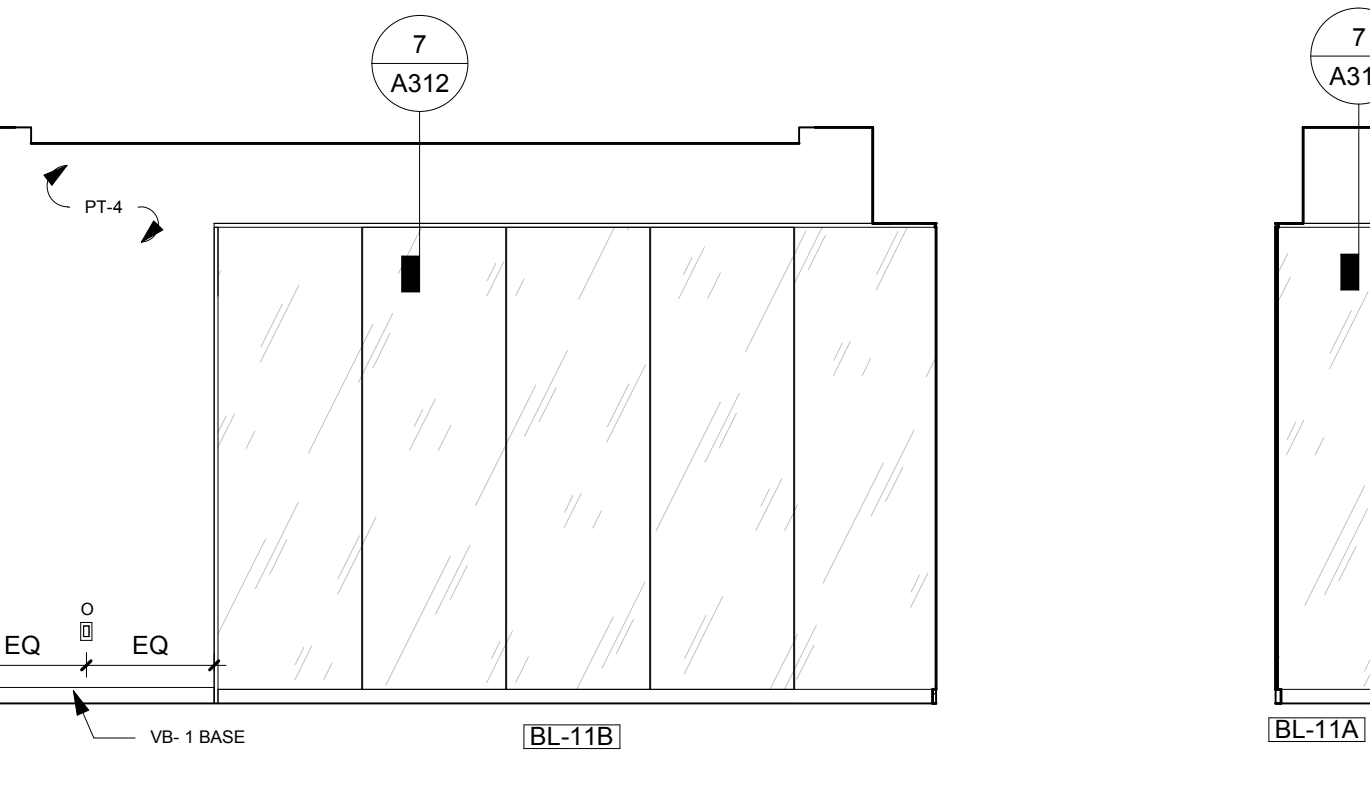
6 DRIVE-THRU BOOK RETURN - SOUTH
1/4" = 1'-0"



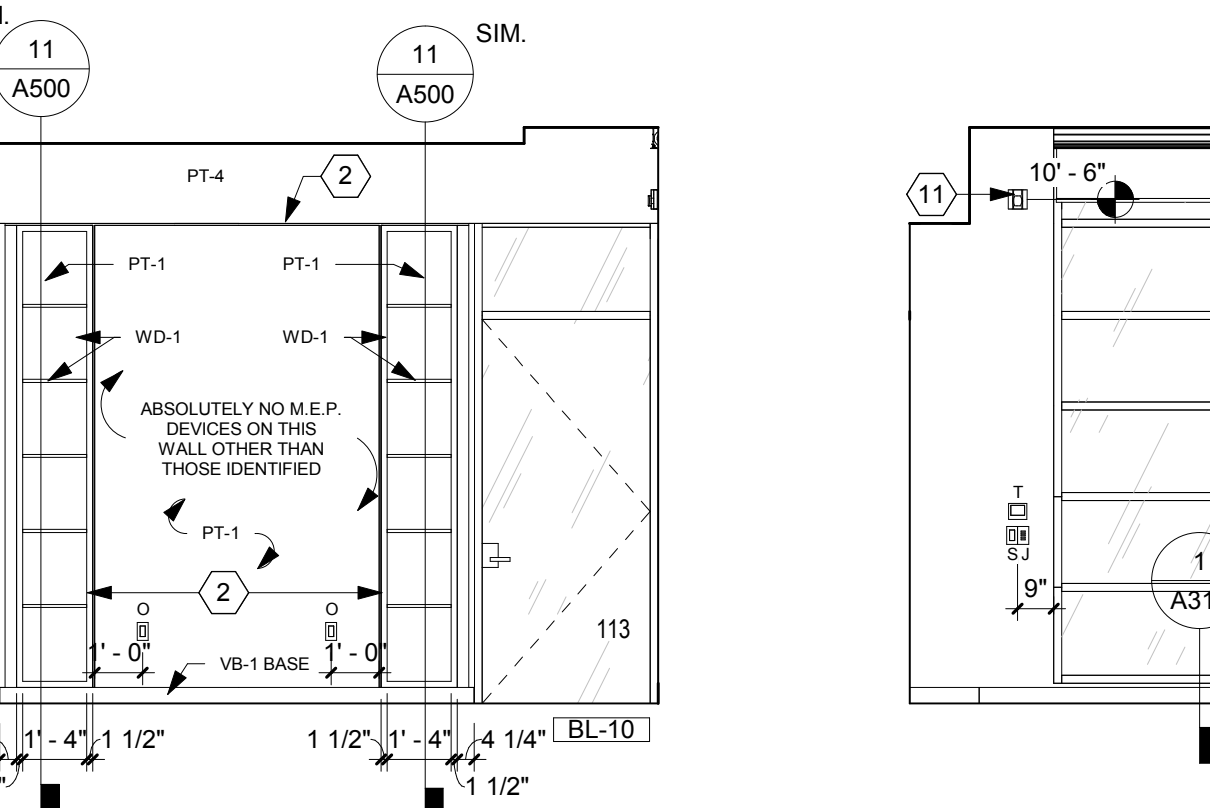
5 DRIVE-THRU BOOK RETURN - WEST
1/4" = 1'-0"



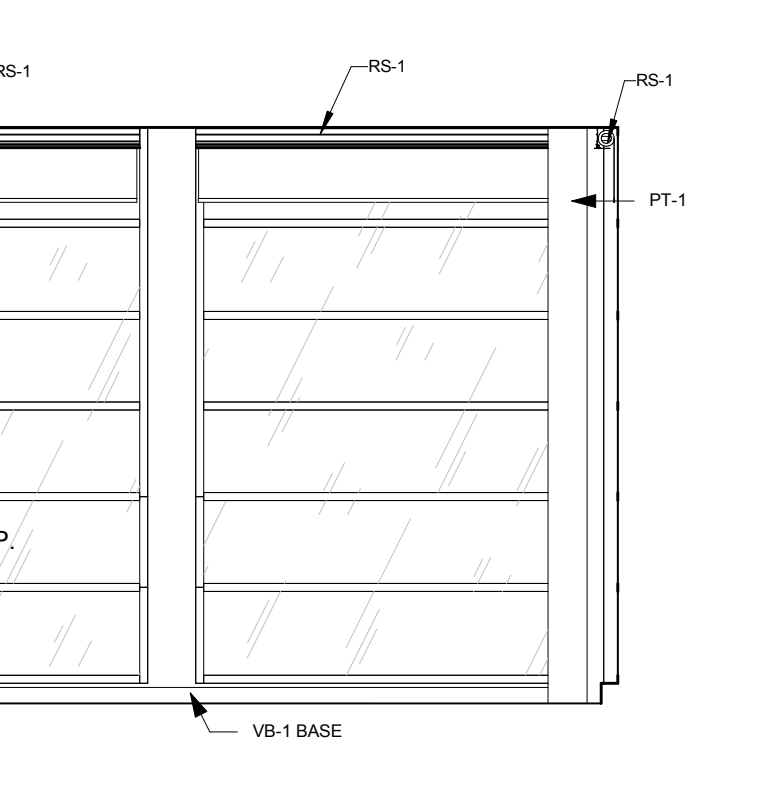
4 ADULT QUIET READING - ENTRY
1/4" = 1'-0"



3 ADULT QUIET READING - NORTH
1/4" = 1'-0"



2 ADULT QUIET READING - EAST
1/4" = 1'-0"



1 ADULT QUIET READING - SOUTH
1/4" = 1'-0"



Project: PINNEY LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI

MEP Engineer: IMEG

Key Plan

Revision

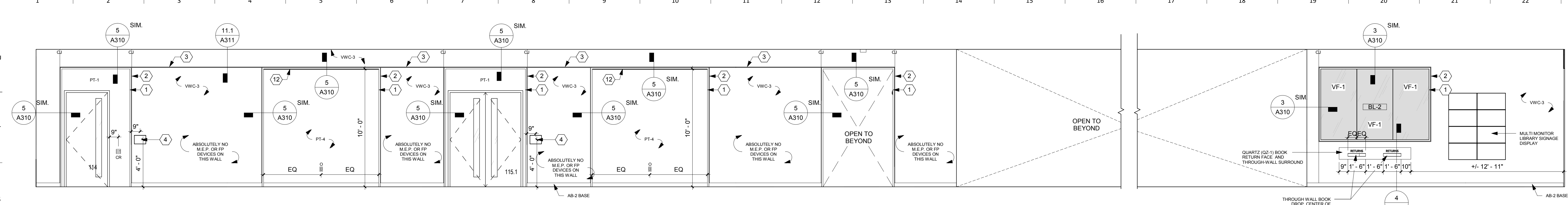
Date

City Contract No. 7662

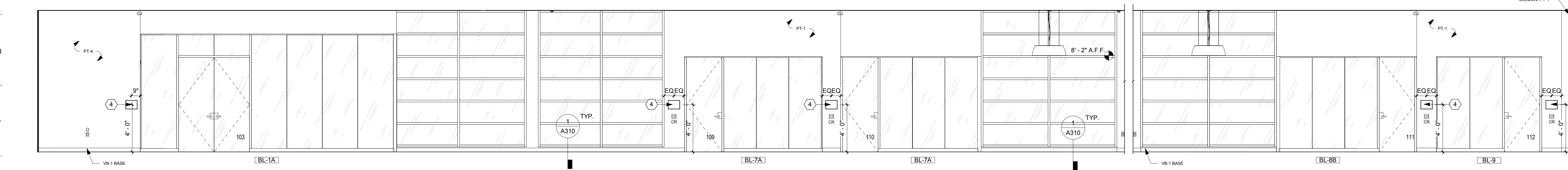
OPN Project No. 17609000

Sheet Name: INTERIOR ELEVATIONS

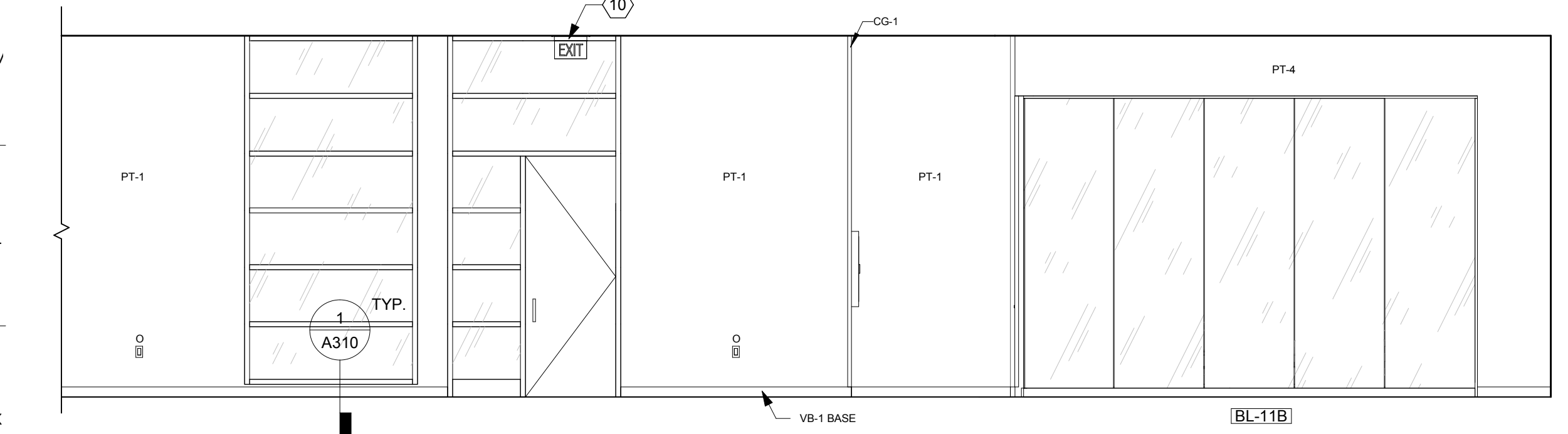
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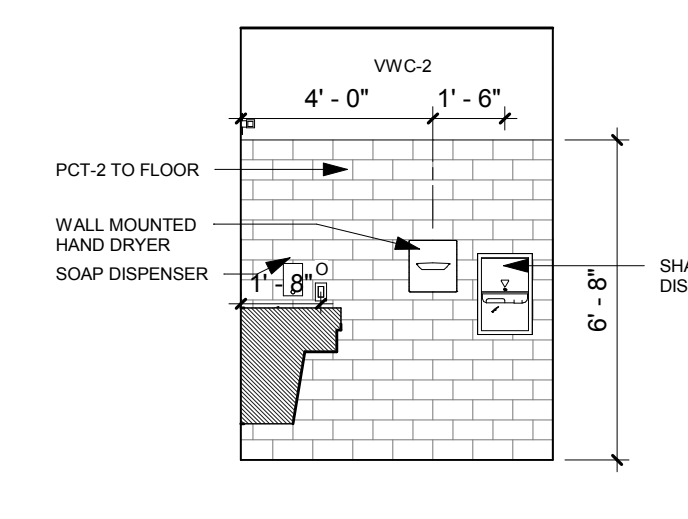
36 ADULT COLLECTION - NORTH ELEVATION
1/4" = 1'-0"



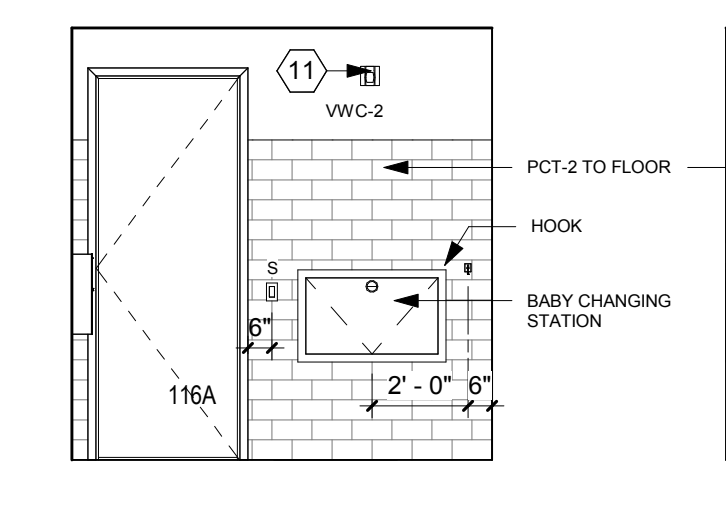
35 ADULT COLLECTION - SOUTH ELEVATION
1/4" = 1'-0"



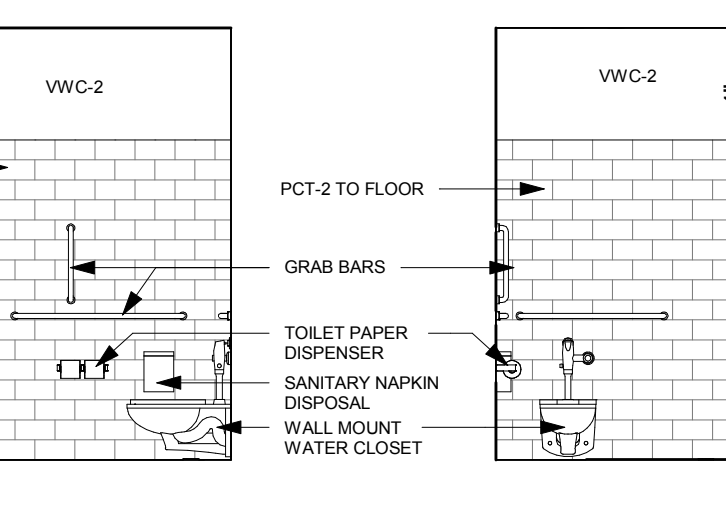
34 ADULT COLLECTION - SOUTH ELEVATION CONTINUED
1/4" = 1'-0"



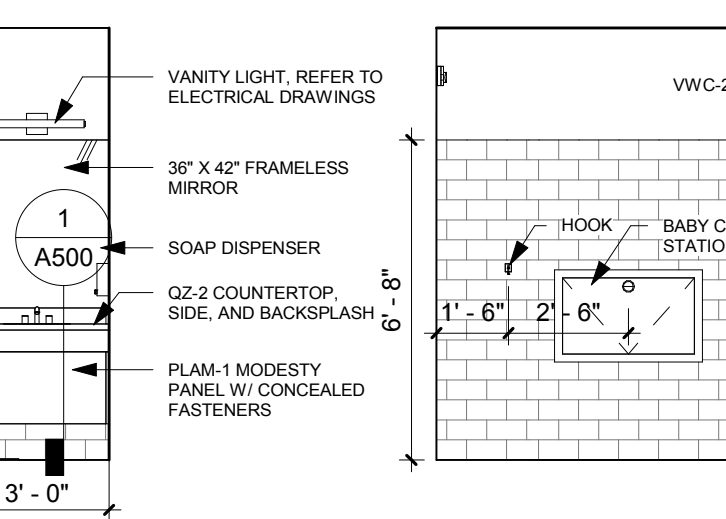
33 ADA TLT 116A - NORTH
1/4" = 1'-0"



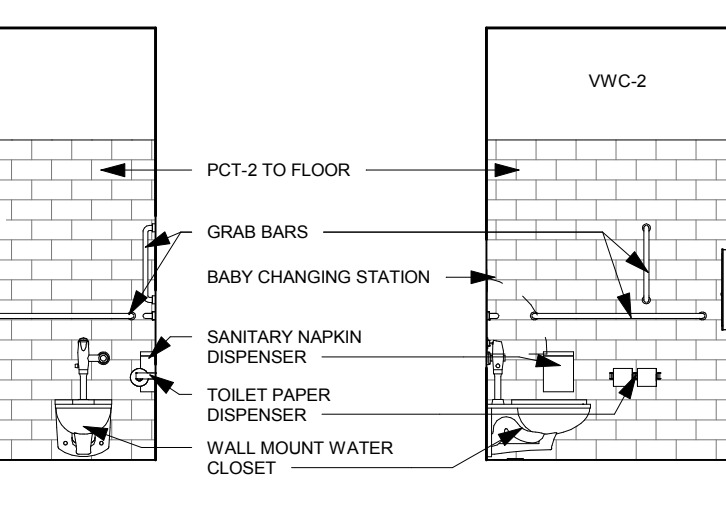
32 ADA TLT 116A - EAST
1/4" = 1'-0"



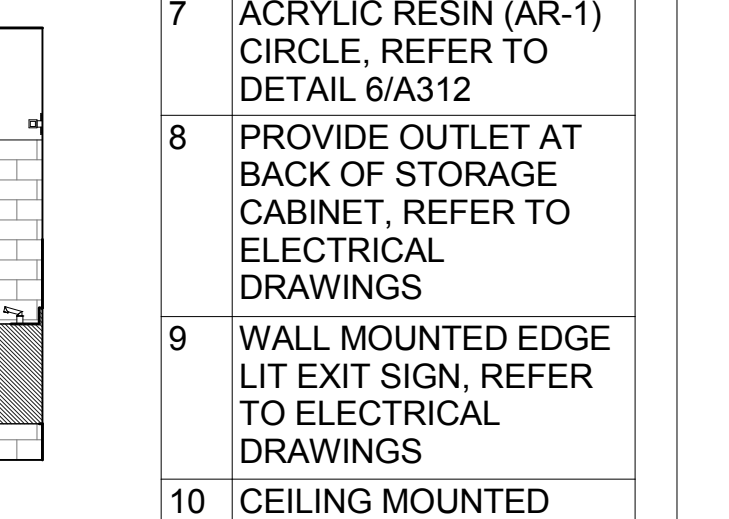
31 ADA TLT 116A - SOUTH
1/4" = 1'-0"



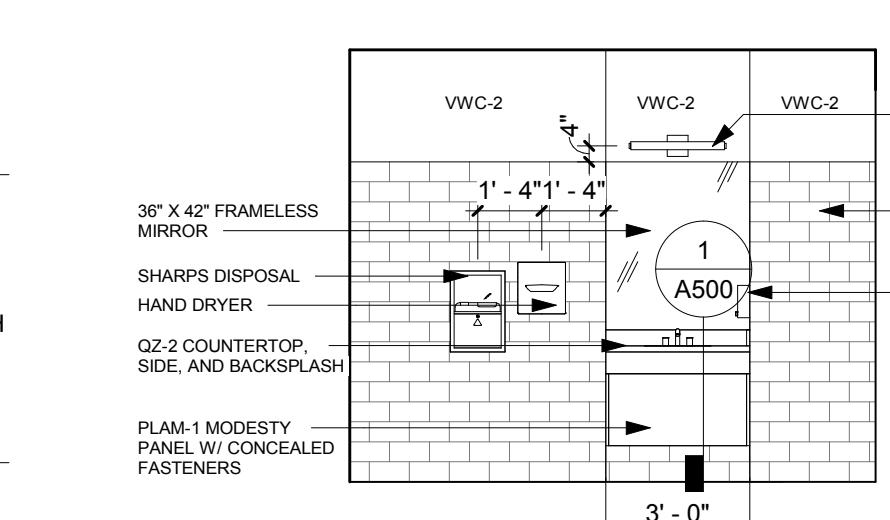
30 ADA TLT 116A - WEST
1/4" = 1'-0"



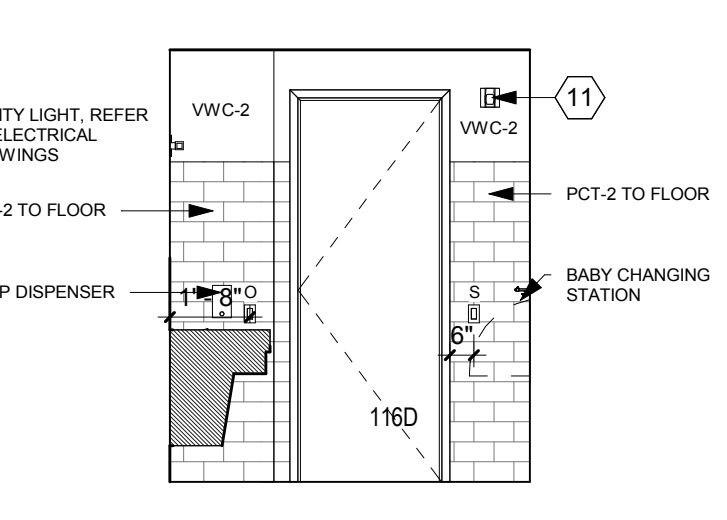
29 ADA TLT 116D - NORTH
1/4" = 1'-0"



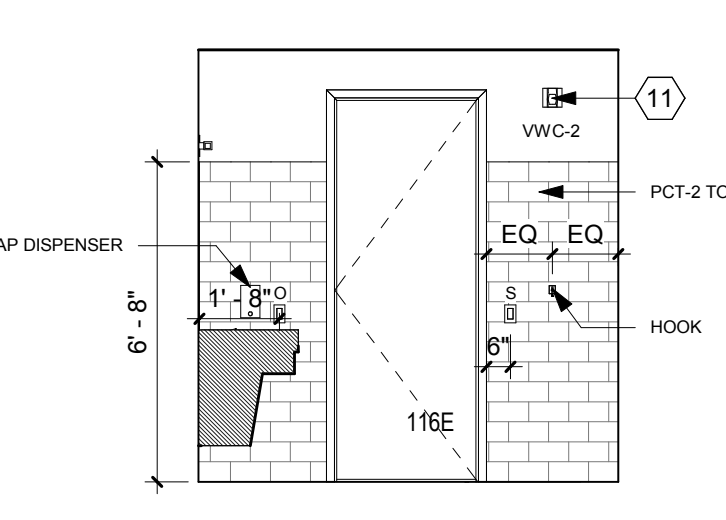
28 ADA TLT 116D - EAST
1/4" = 1'-0"



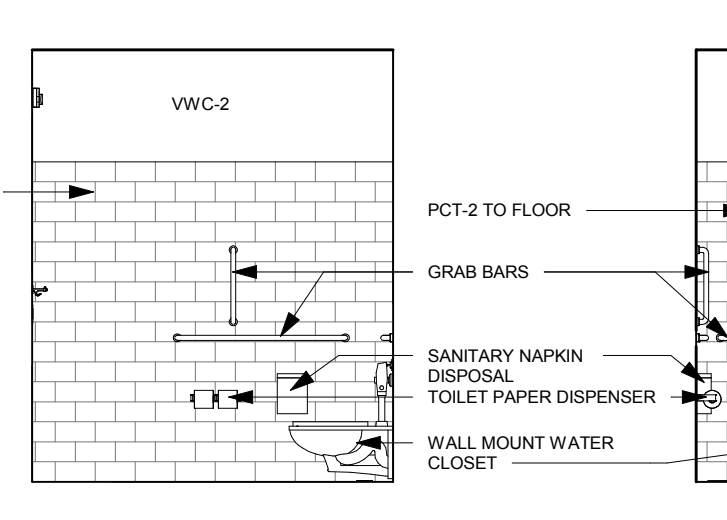
27 ADA TLT 116D - SOUTH
1/4" = 1'-0"



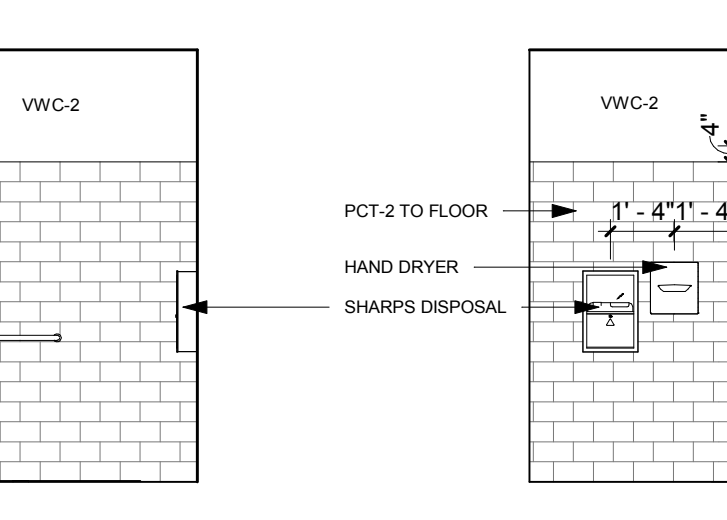
26 ADA TLT 116D - WEST
1/4" = 1'-0"



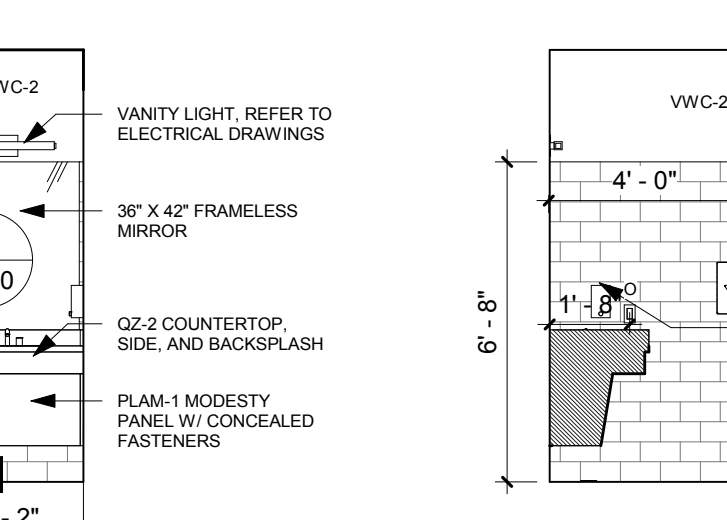
25 TLT 116E - NORTH
1/4" = 1'-0"



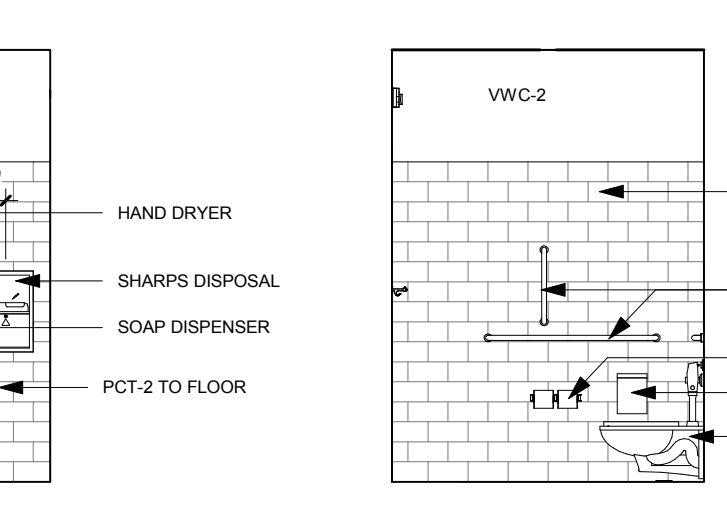
24 TLT 116E - EAST
1/4" = 1'-0"



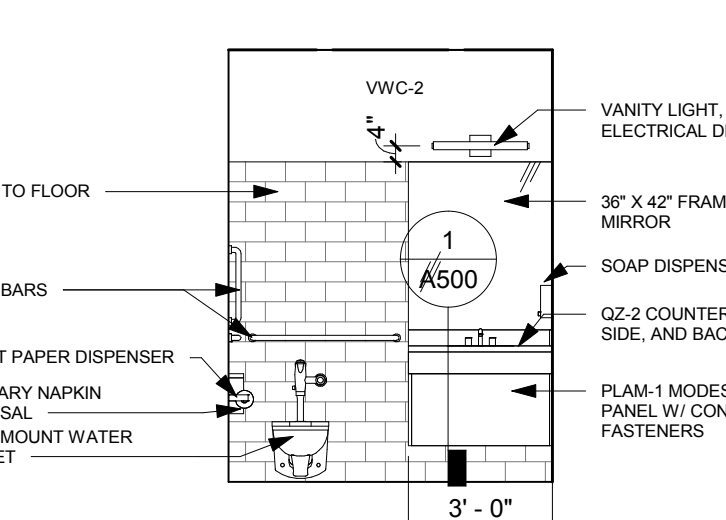
23 TLT 116E - SOUTH
1/4" = 1'-0"



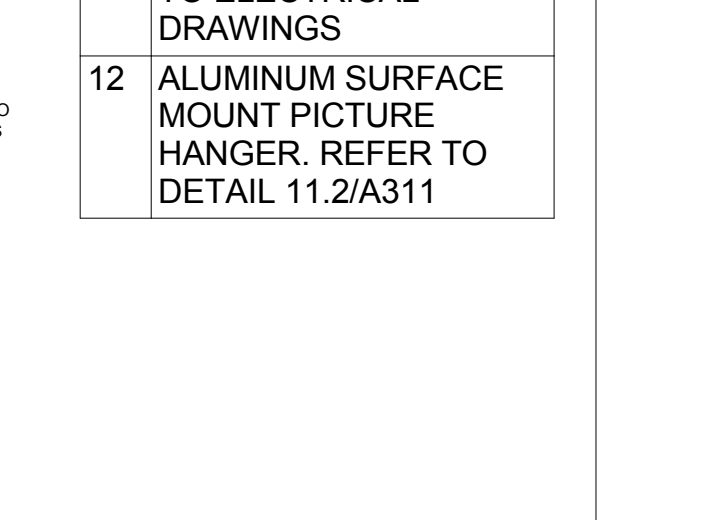
22 TLT 116E - WEST
1/4" = 1'-0"



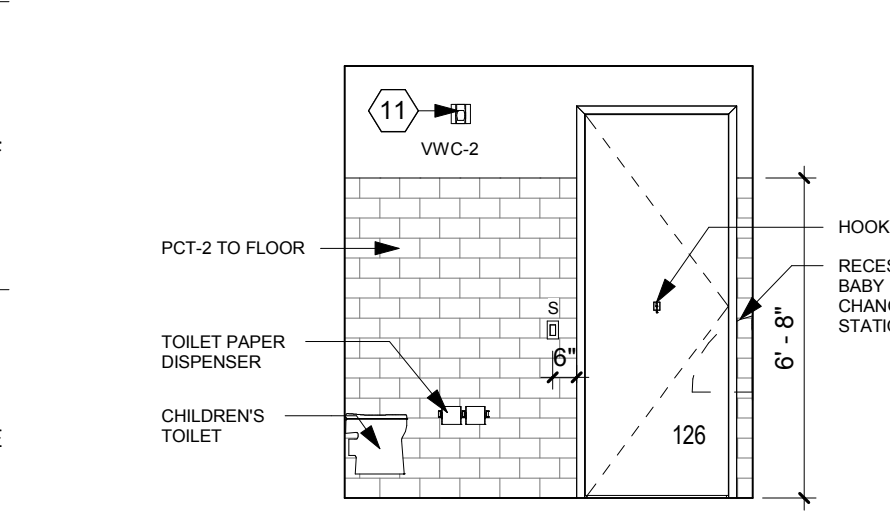
21 TLT 116B - NORTH
1/4" = 1'-0"



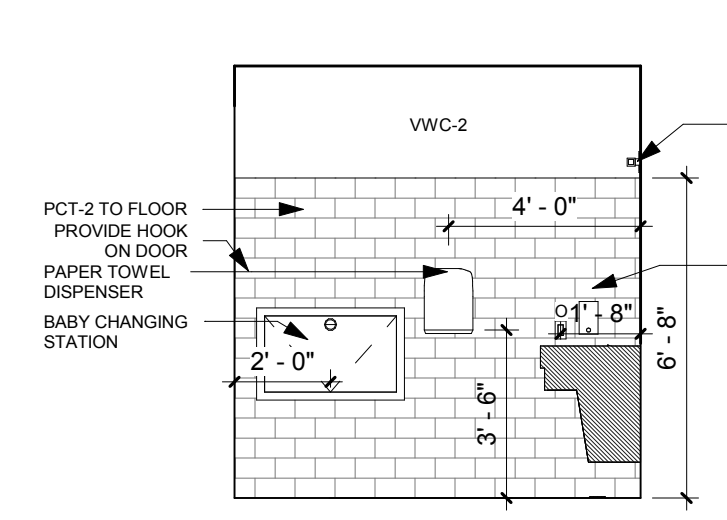
20 TLT 116B - SOUTH
1/4" = 1'-0"



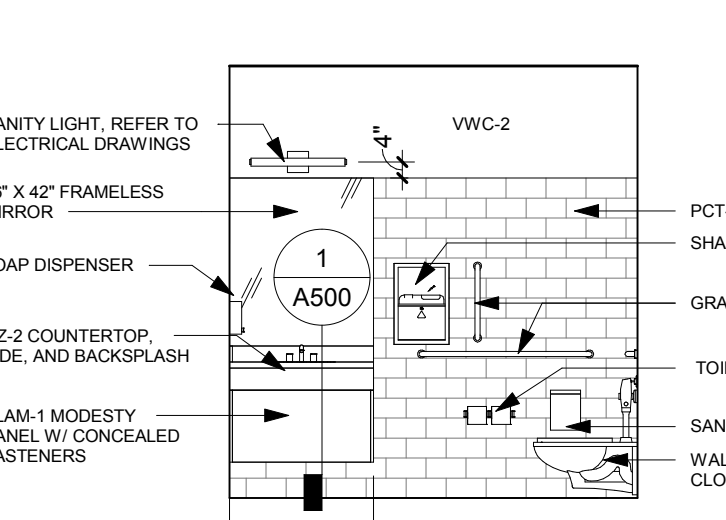
19 TLT 116B - WEST
1/4" = 1'-0"



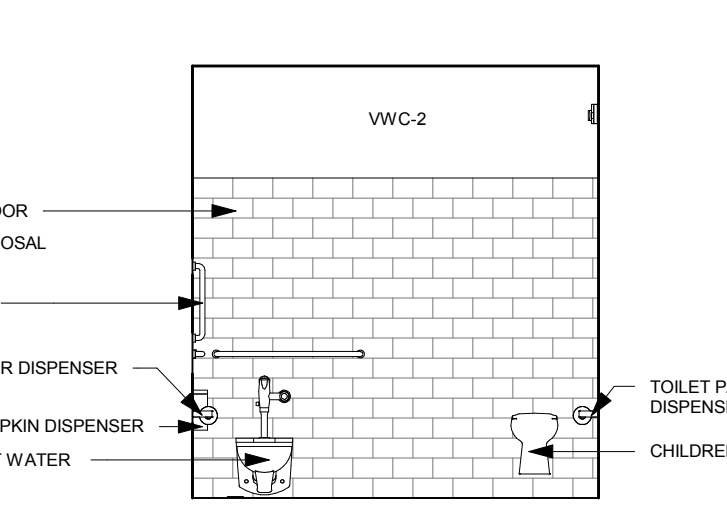
18 FAMILY RESTROOM 126 - NORTH
1/4" = 1'-0"



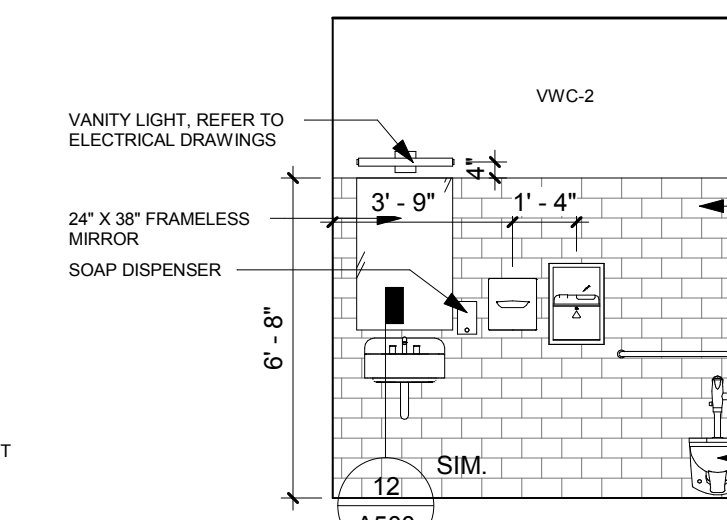
17 FAMILY RESTROOM 126 - EAST
1/4" = 1'-0"



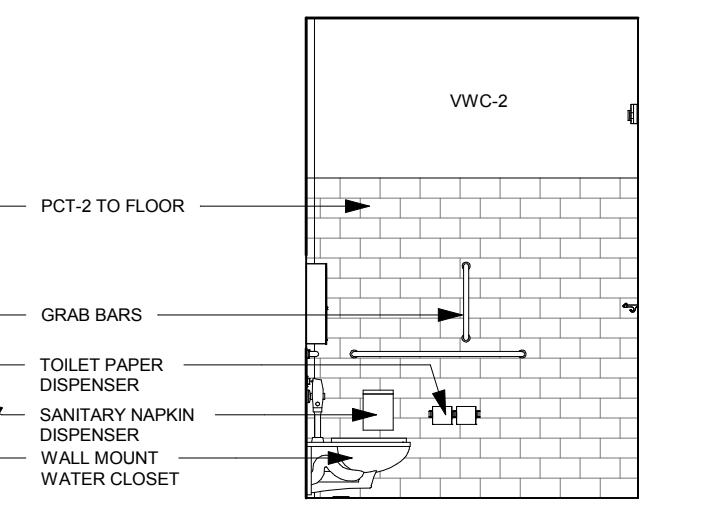
16 FAMILY RESTROOM 126 - SOUTH
1/4" = 1'-0"



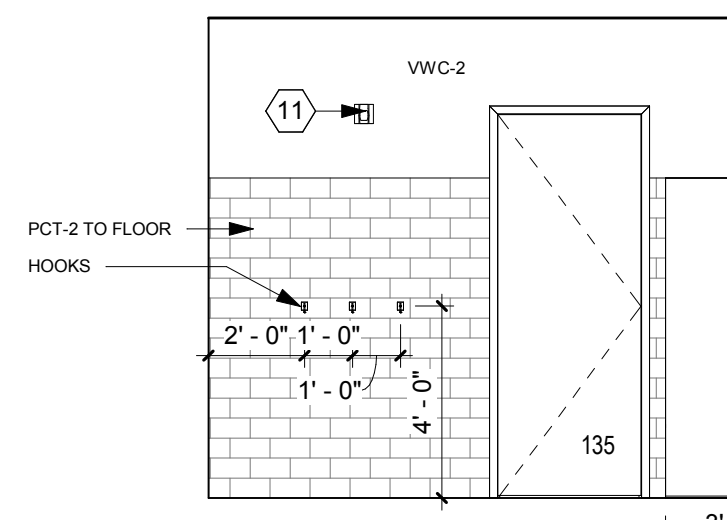
15 FAMILY RESTROOM 126 - WEST
1/4" = 1'-0"



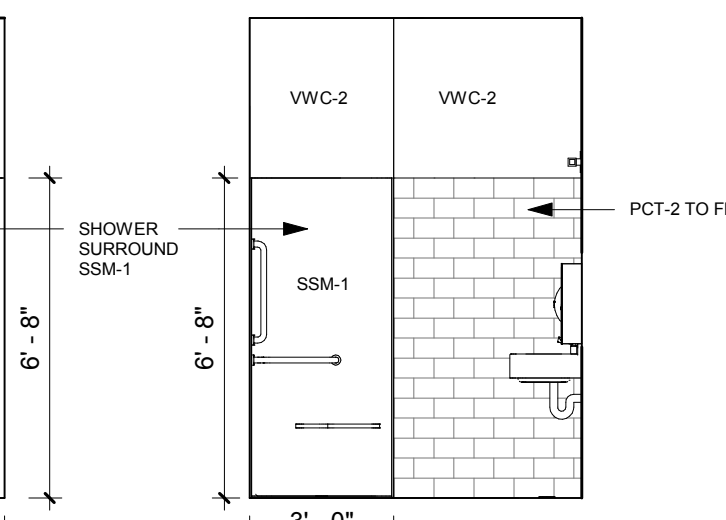
14 ADA STAFF RESTROOM 135 - NORTH
1/4" = 1'-0"



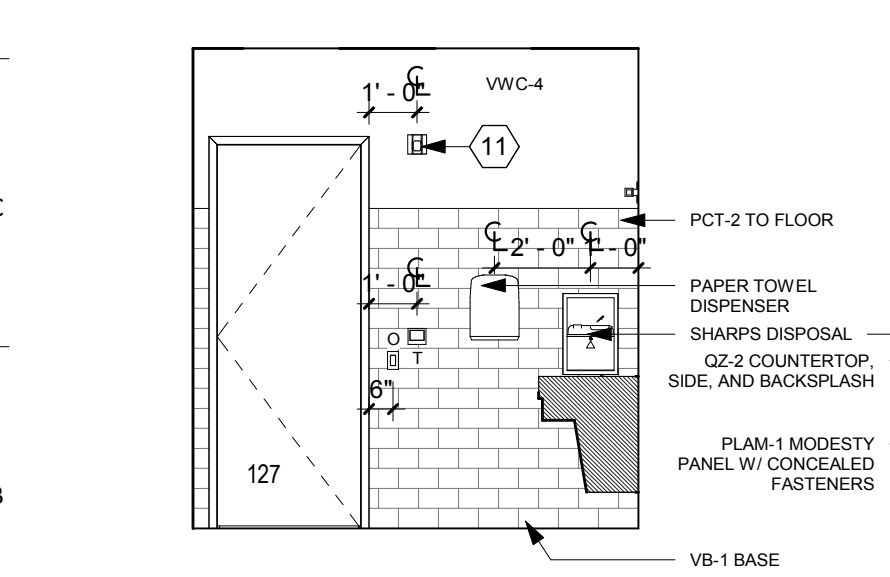
13 ADA STAFF RESTROOM 135 - EAST
1/4" = 1'-0"



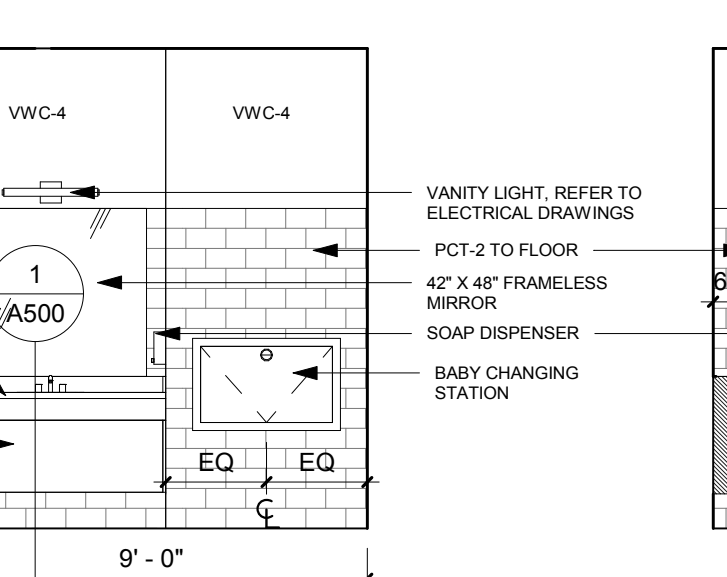
12 ADA STAFF RESTROOM 135 - SOUTH
1/4" = 1'-0"



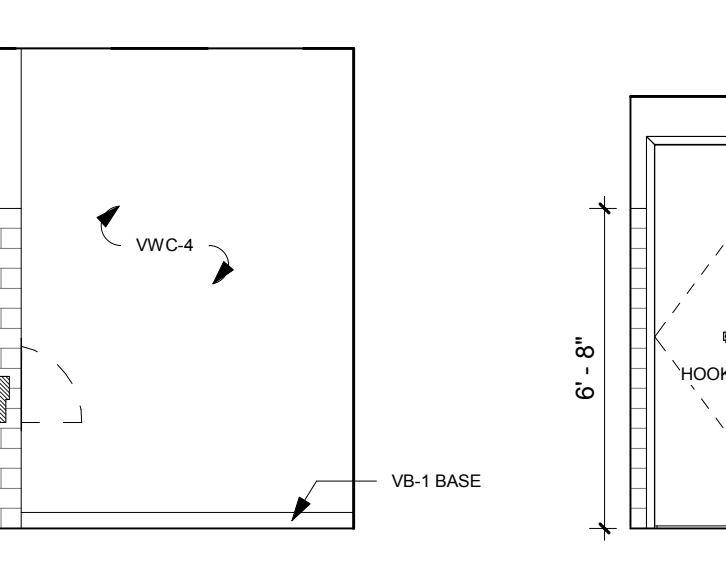
11 ADA STAFF RESTROOM 135 - WEST
1/4" = 1'-0"



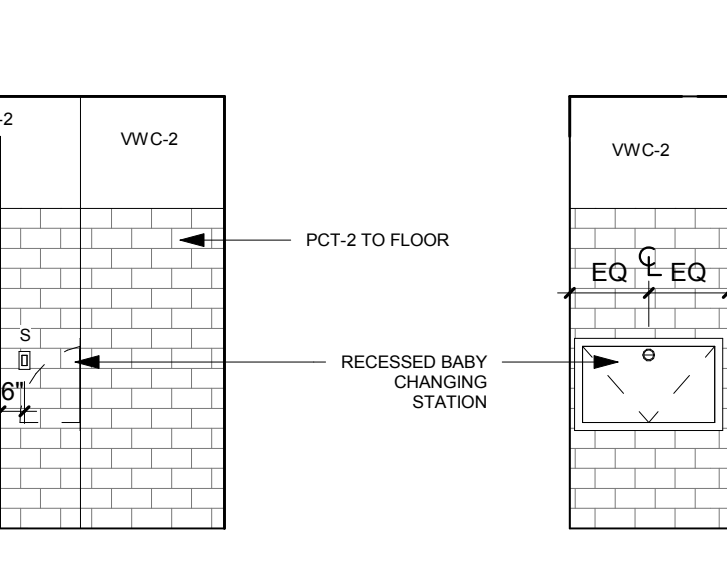
10 COMFORT ROOM - EAST
1/4" = 1'-0"



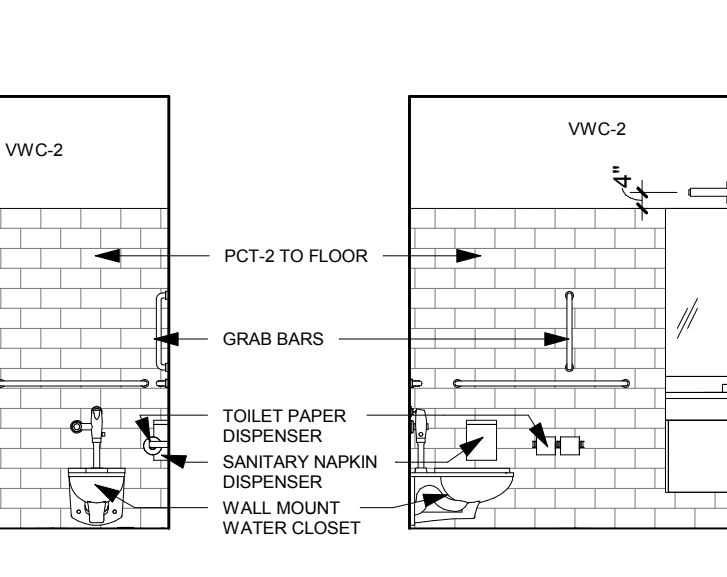
9 COMFORT ROOM - SOUTH
1/4" = 1'-0"



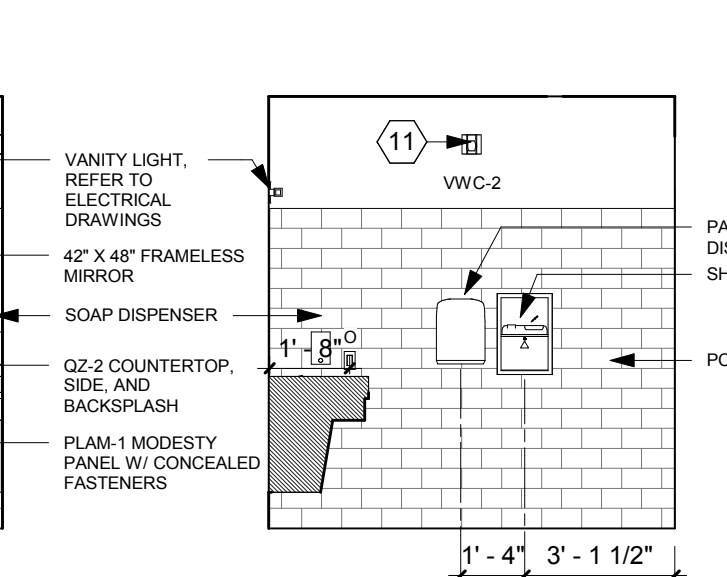
8 COMFORT ROOM - WEST
1/4" = 1'-0"



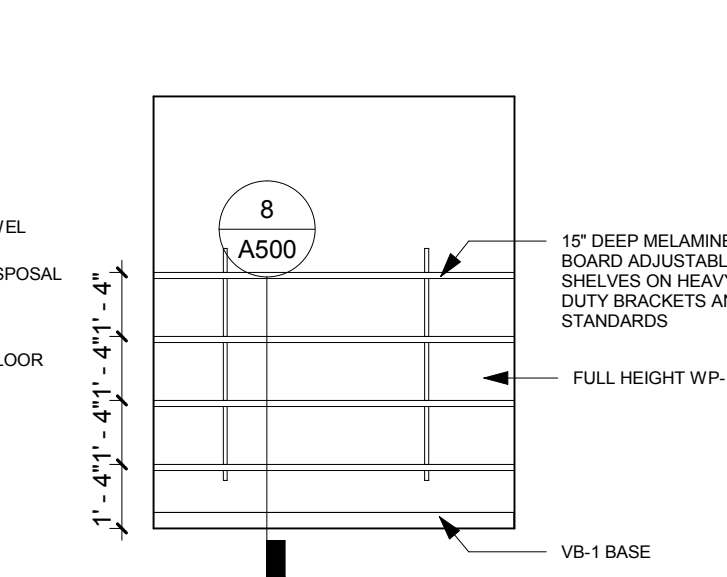
7 FAMILY RESTROOM 125 - NORTH
1/4" = 1'-0"



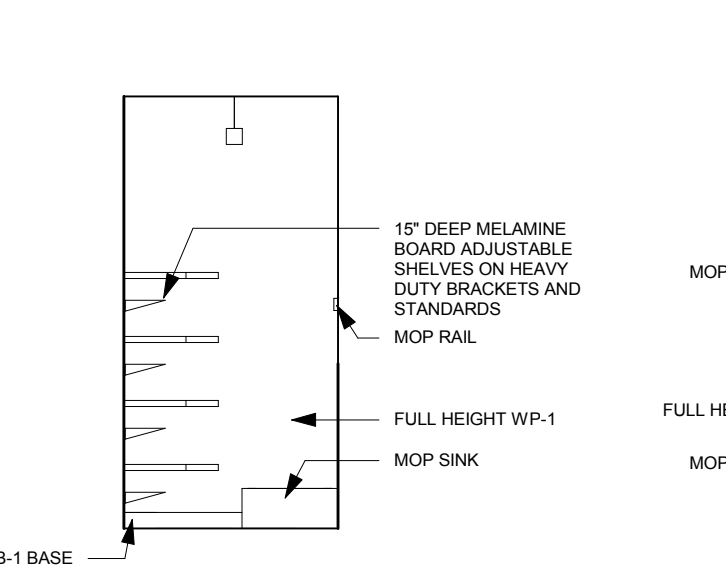
6 FAMILY RESTROOM 125 - EAST
1/4" = 1'-0"



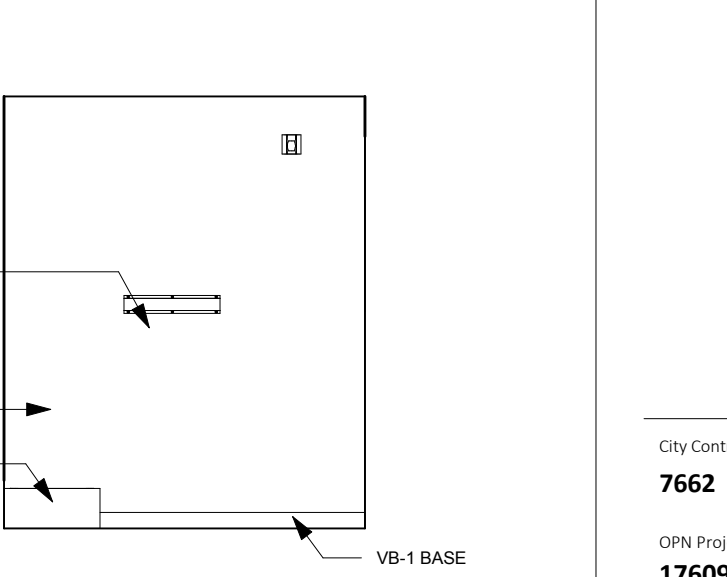
5 FAMILY RESTROOM 125 - SOUTH
1/4" = 1'-0"



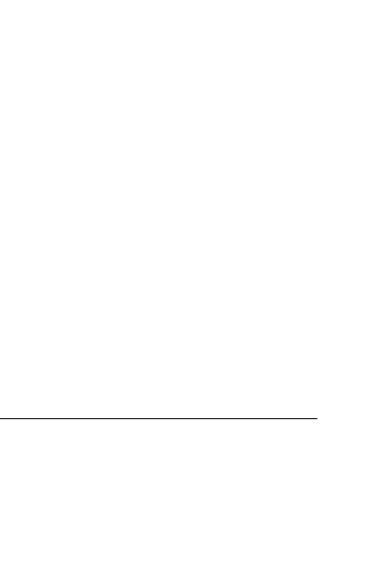
4 FAMILY RESTROOM 125 - WEST
1/4" = 1'-0"



3 JANITORS CLOSET - EAST
1/4" = 1'-0"



2 JANITORS CLOSET - SOUTH
1/4" = 1'-0"



1 JANITORS CLOSET - WEST
1/4" = 1'-0"

- GENERAL NOTES**
- COORDINATE FINAL LOCATION OF FIRE ALARMS, THERMOSTATS AND EMERGENCY LIGHTS WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO FINISH PLANS, FINISH SCHEDULE, AND FINISH SPECIFICATION FOR ADDITIONAL WALL FINISH INFORMATION.
 - REFER TO DOOR AND BORROWED LIGHT ELEVATIONS AND SCHEDULE FOR DOOR AND INTERIOR GLAZING INFORMATION.
 - DIMENSIONS ARE MEASURED FROM FACE-OF-FINISH TO FACE-OF-FINISH UNLESS NOTED OTHERWISE.
 - REFER TO SHEET A500 FOR ALL TYPICAL CASEWORK DETAILS.
 - ALL MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE COUNTERTOP BRACKET SUPPORTS @ 3'-0" O.C.
 - FURNITURE SHOWN AS DASHED LINES SHOWN FOR REFERENCE ONLY.
 - REFER TO SHEET AG002 FOR TYPICAL MOUNTING HEIGHTS.

- MEP COORDINATION ABBREVIATIONS**
- O = OUTLET
 - S = LIGHT SWITCH
 - U = SHADE CONTROLS
 - T = THERMOSTAT
 - D = DATA OUTLET
 - C2 = CARBON DIOXIDE SENSOR
 - H = HUMIDISTAT SENSOR
 - CR = CARD READER
 - ADA = ADA WAVE ACTUATOR
 - FP = AUDIOVISUAL FACEPLATE
 - SP = SPEAKER

INT. ELEVATION KEYNOTES

#	NOTE
1	FRAMED OPENING, W/D-1
2	CONTINUOUS 1/2" ALUMINUM REVEAL, MITER CORNERS
3	ALUMINUM REVEAL/PICTURE HANGER, REFER TO DETAIL 11.1/A311
4	DIGITAL ROOM SCHEDULER, REFER TO TECHNOLOGY DRAWINGS
5	FRAMED OPENING, QZ-3
6	ACRYLIC RESIN (AR-1) CIRCLE WINDOW, REFER TO DETAIL 11/A322
7	ACRYLIC RESIN (AR-1) CIRCLE, REFER TO DETAIL 6/A312
8	PROVIDE OUTLET AT BACK OF STORAGE CABINET, REFER TO ELECTRICAL DRAWINGS
9	WALL MOUNTED EDGE LIT EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
10	CEILING MOUNTED EDGE LIT EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
11	FIRE ALARM NOTIFICATION, REFER TO ELECTRICAL DRAWINGS
12	ALUMINUM SURFACE MOUNT PICTURE HANGER, REFER TO DETAIL 11.2/A311

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CITY OF MADISON WISCONSIN

MADISON PUBLIC LIBRARY
Foundation

Project
PINNEY LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI

MERT Engineer
IMEG
1800 DEMING WAY, SUITE 200
MADISON, WI 53562
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City Contract No.
7662

City Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
INTERIOR ELEVATIONS

Sheet Number
A403



MADISON PUBLIC LIBRARY



MADISON PUBLIC LIBRARY Foundation

Project
PINNEY LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI

MEET Engineer



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MADISON, WI 53562
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Key Plan

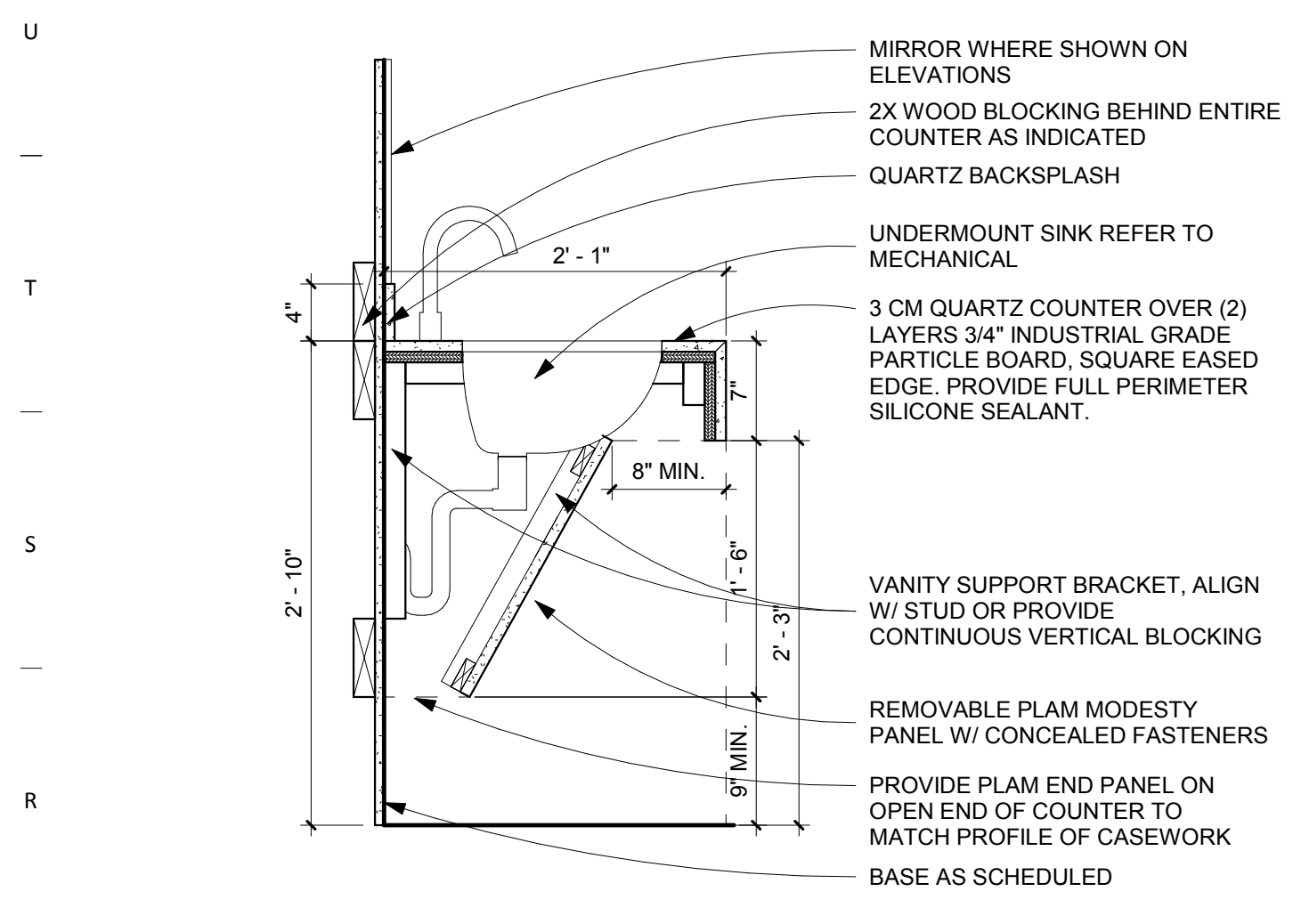
Revision Date

City Contract No.
7662
OPN Project No.
17609000

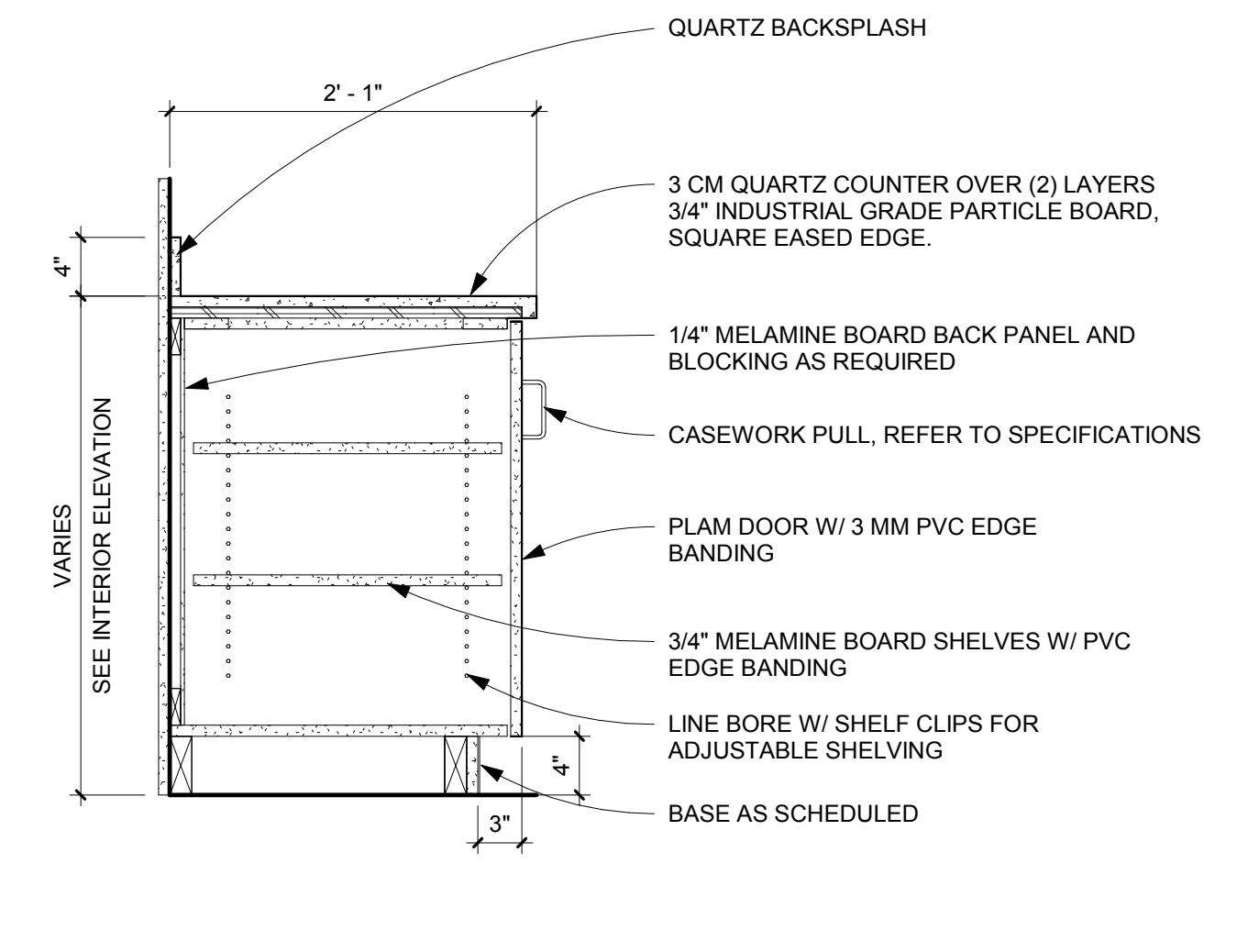
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BID DOCUMENTS 11/30/2018

Sheet Name
CASEWORK DETAILS

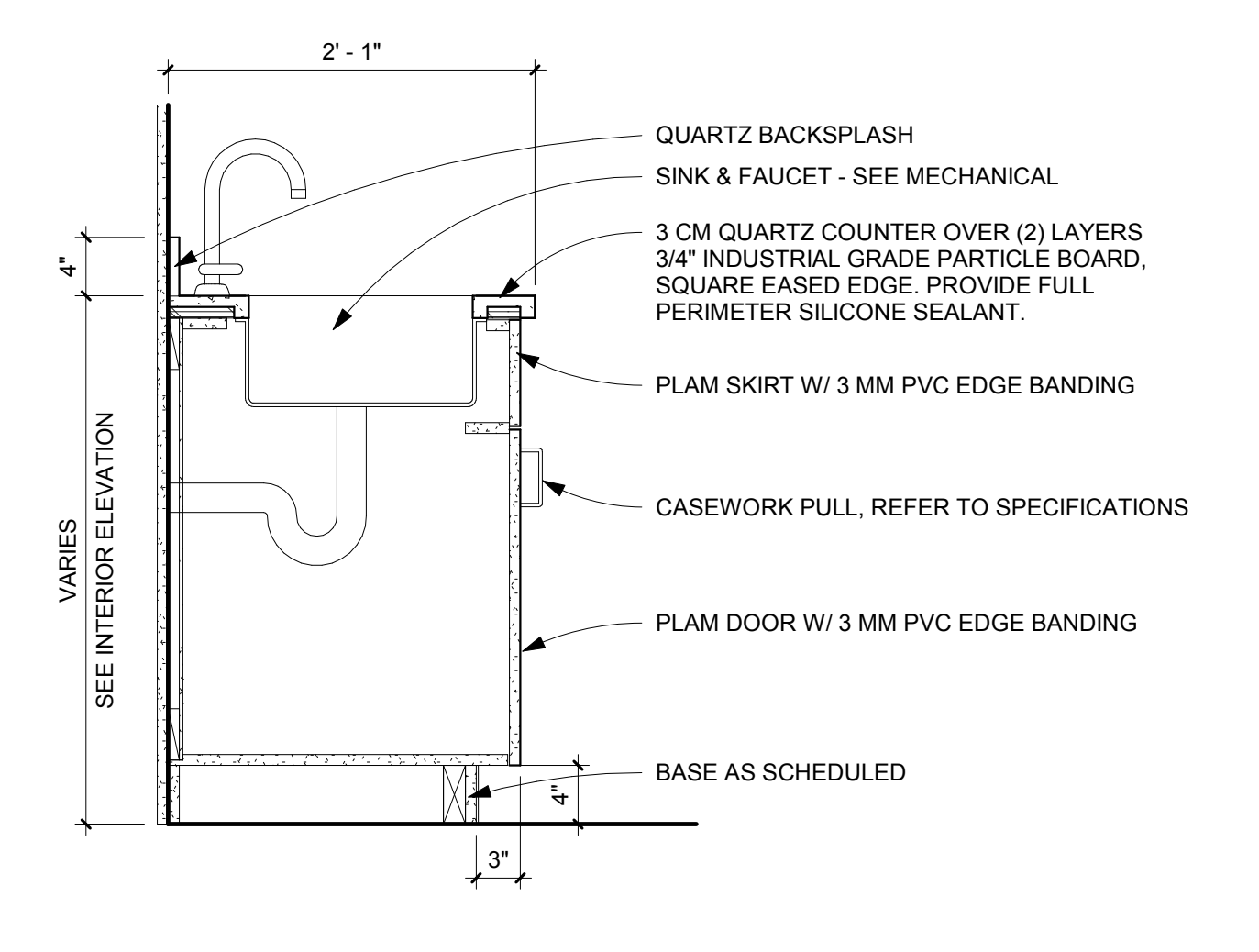
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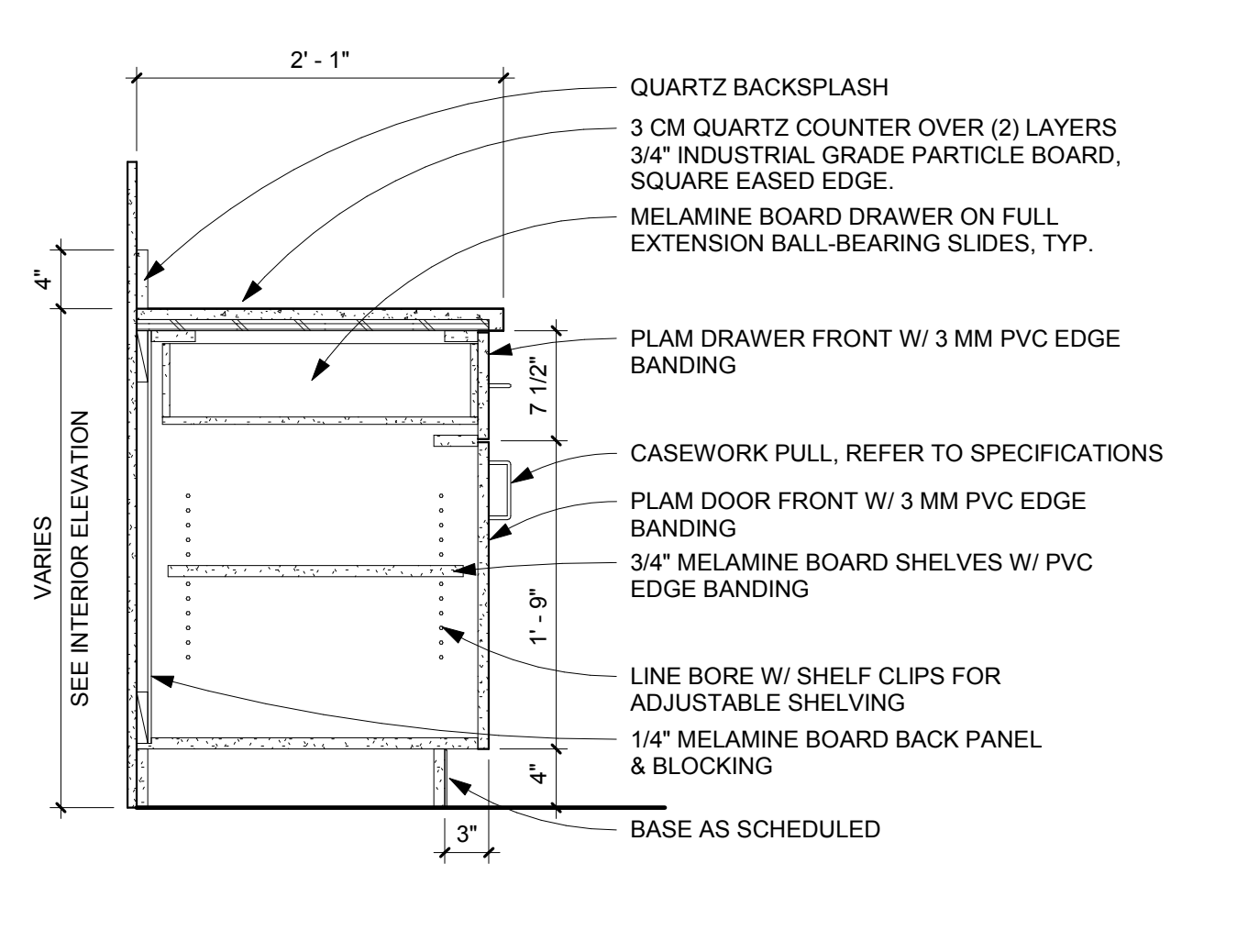
1 CASEWORK DETAIL - TYP. BASE CABINET
1" = 1'-0"



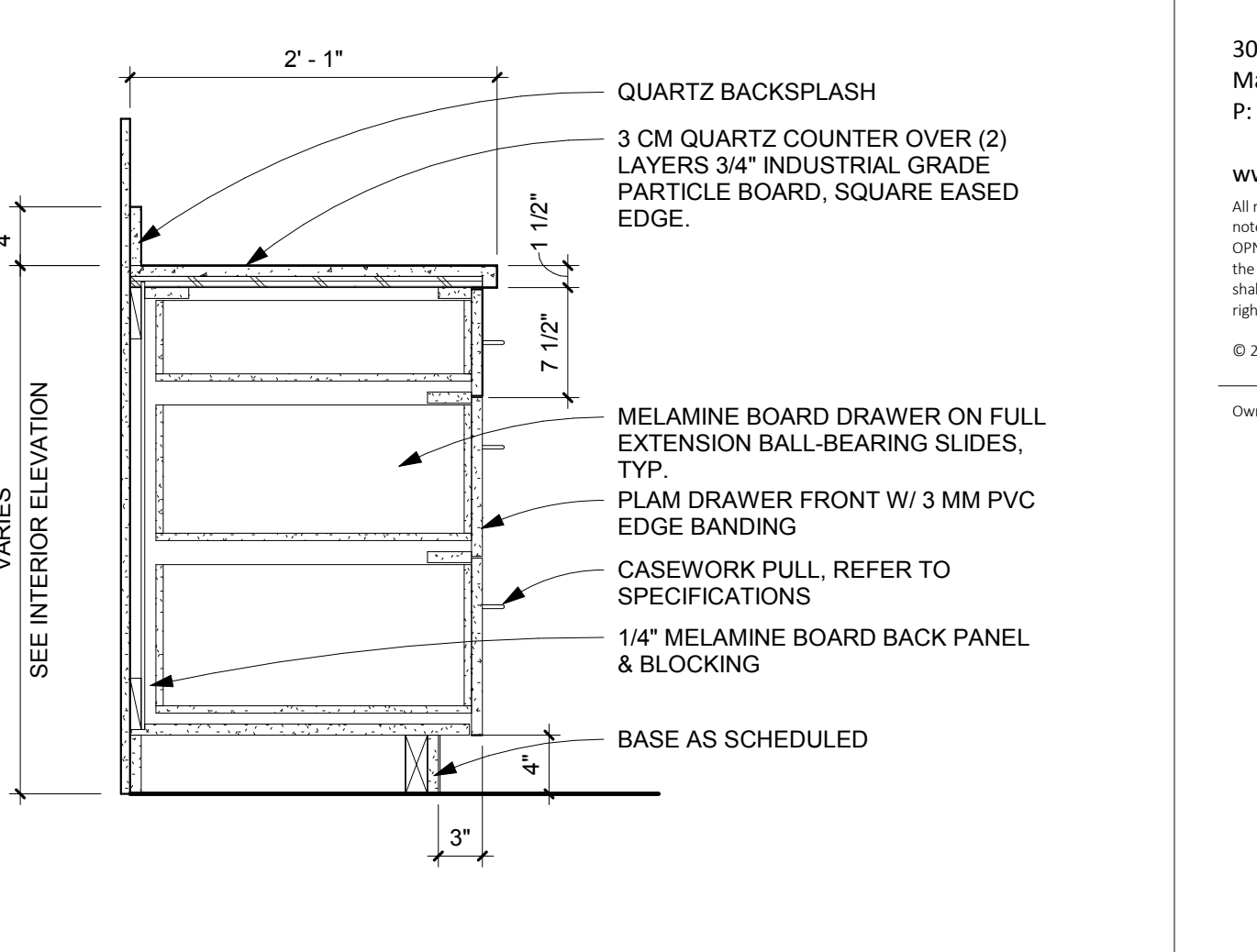
2 CASEWORK DETAIL - TYP. BASE CABINET
1" = 1'-0"



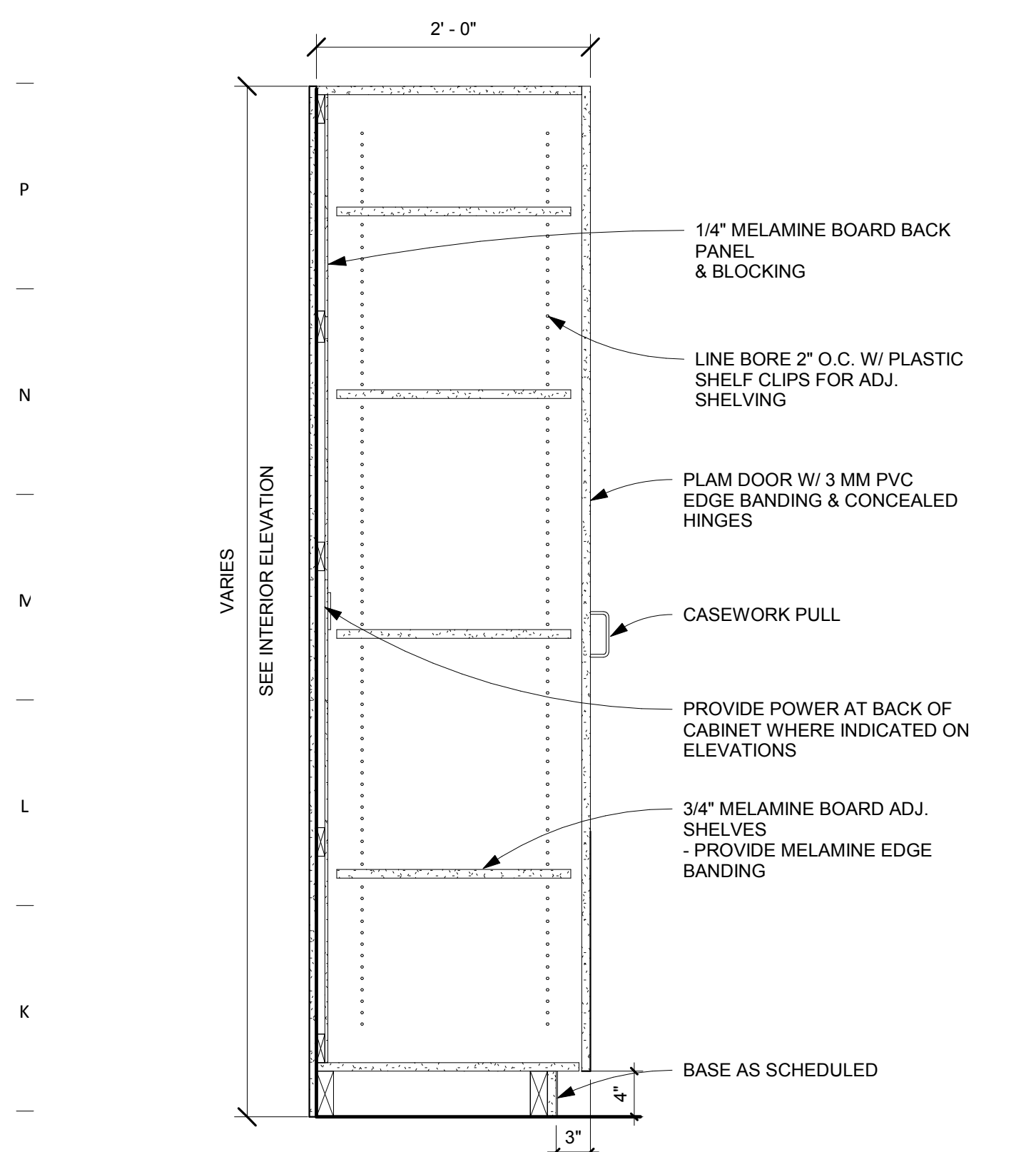
3 CASEWORK DETAIL - SINK BASE CABINET
1" = 1'-0"



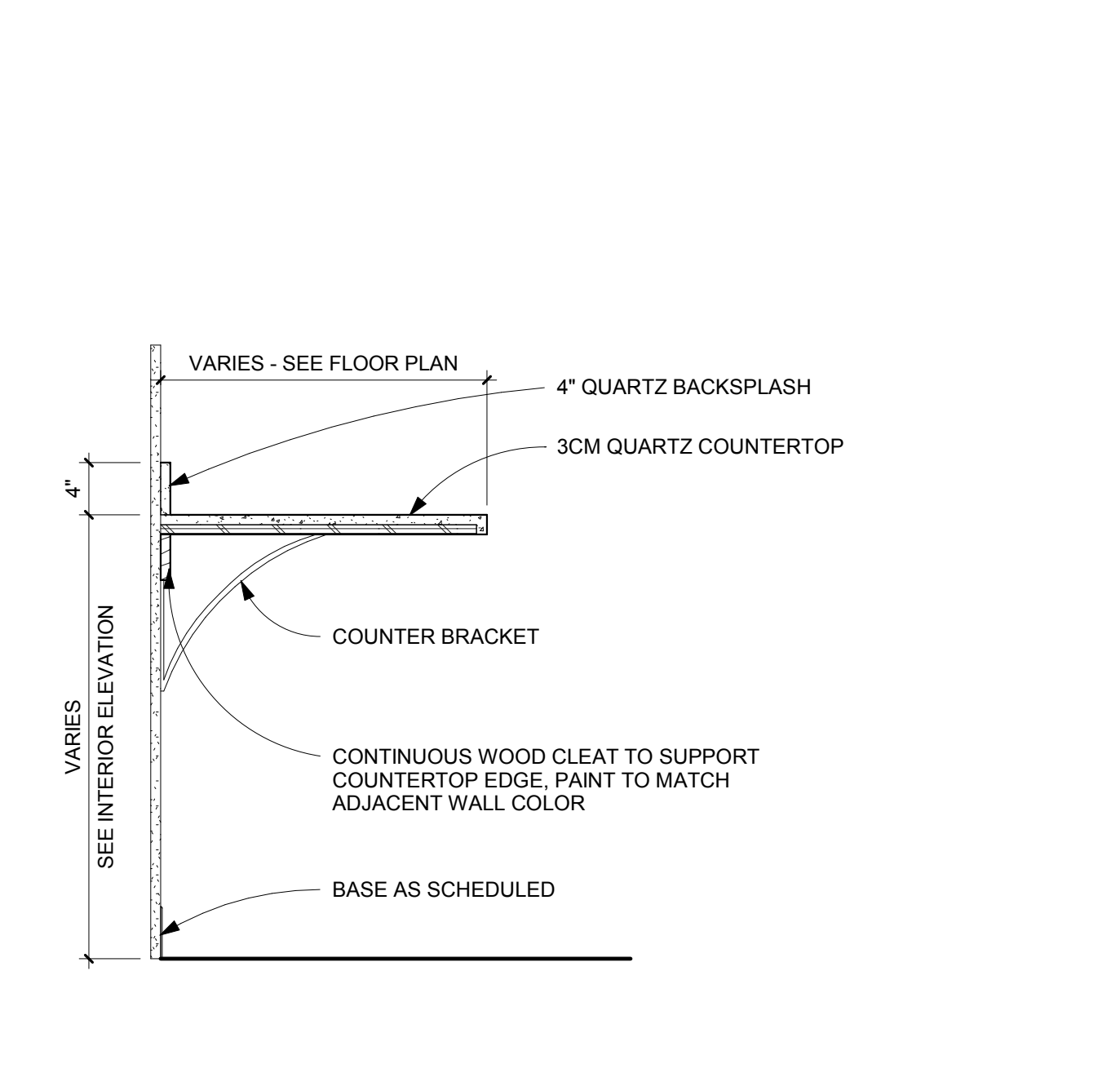
4 CASEWORK DETAIL - DRAWER & DOOR
1" = 1'-0"



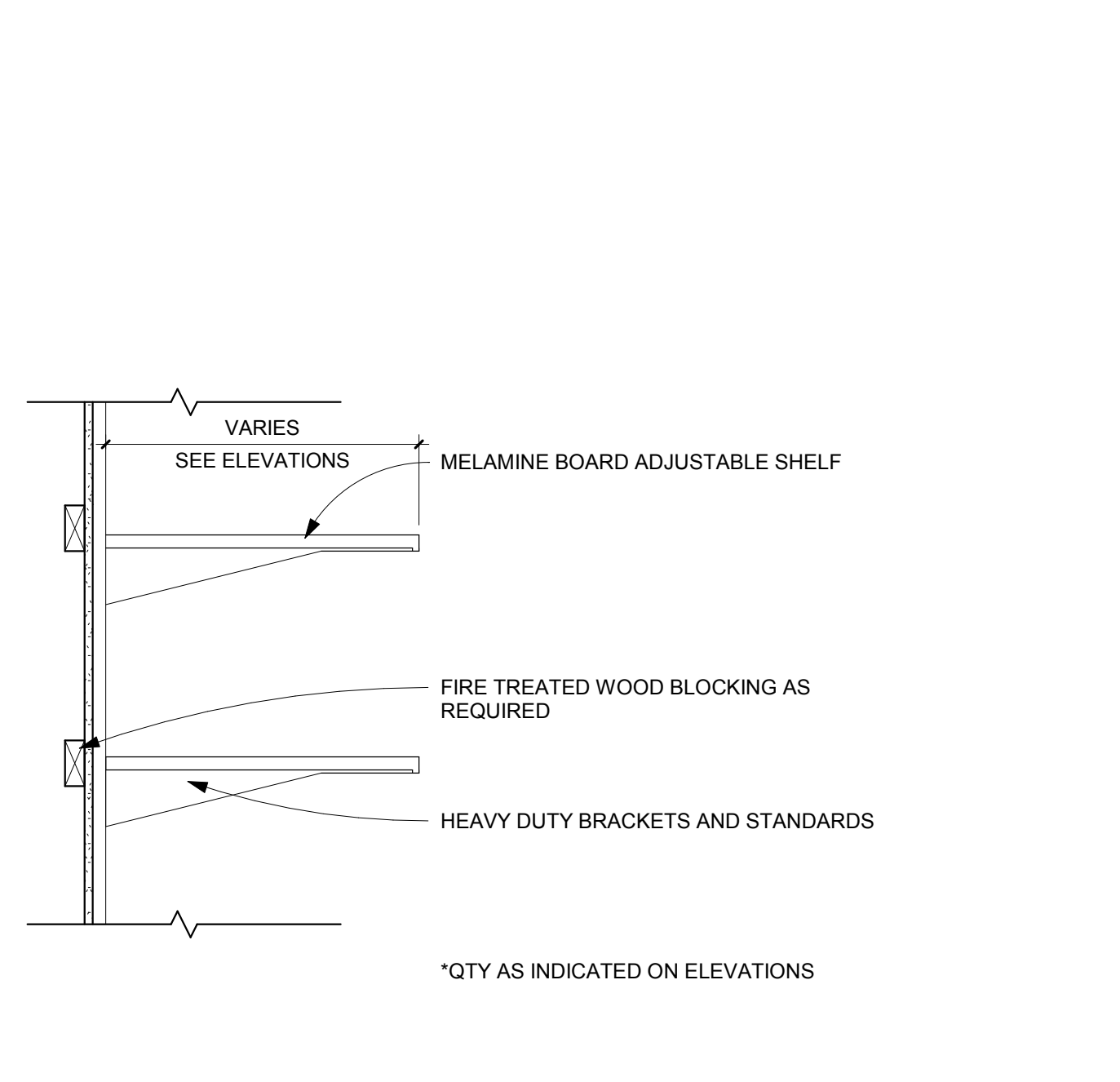
5 CASEWORK DETAIL - 3 DRAWER BASE
1" = 1'-0"



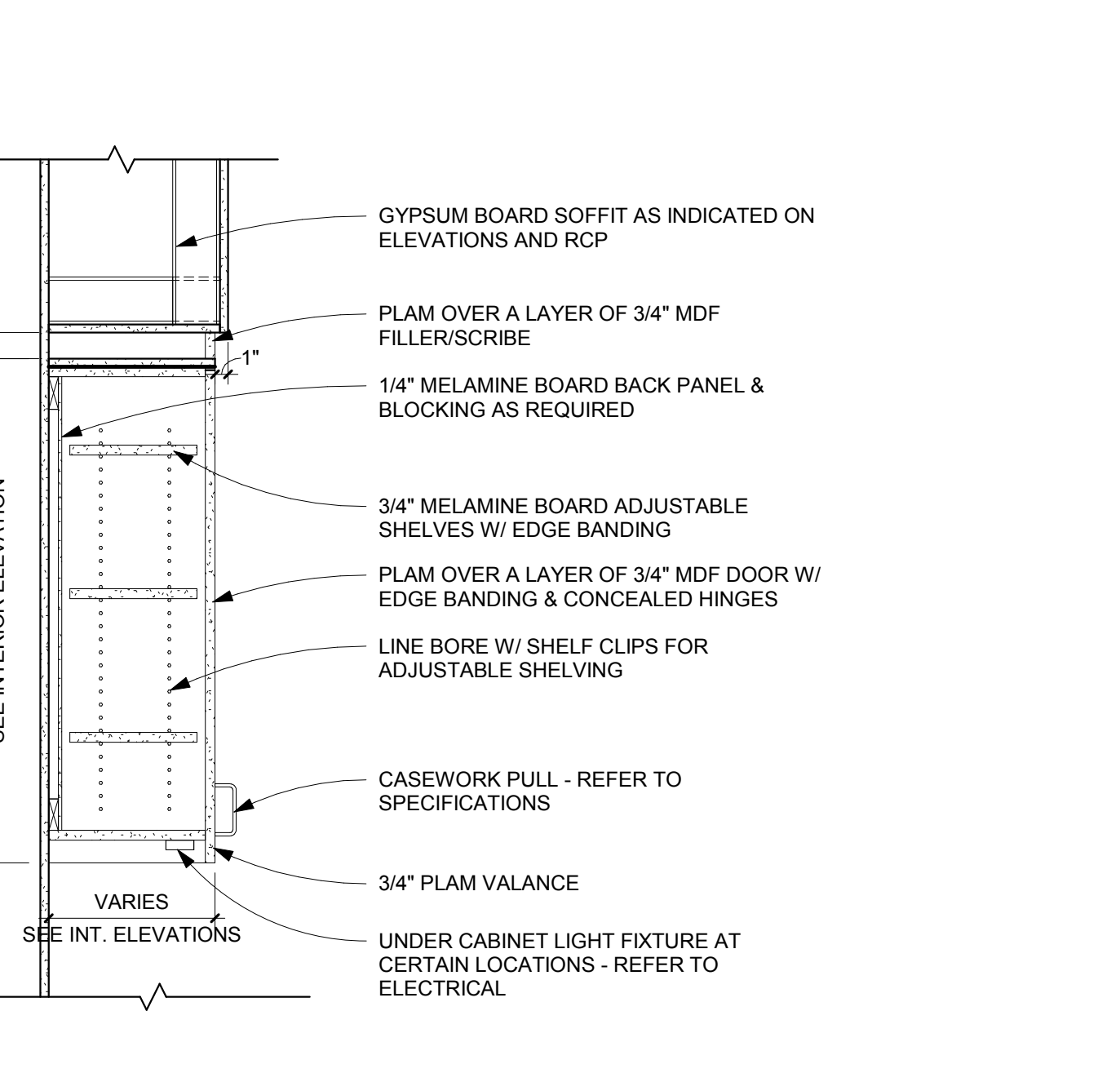
6 CASEWORK DETAIL - TALL STORAGE
1" = 1'-0"



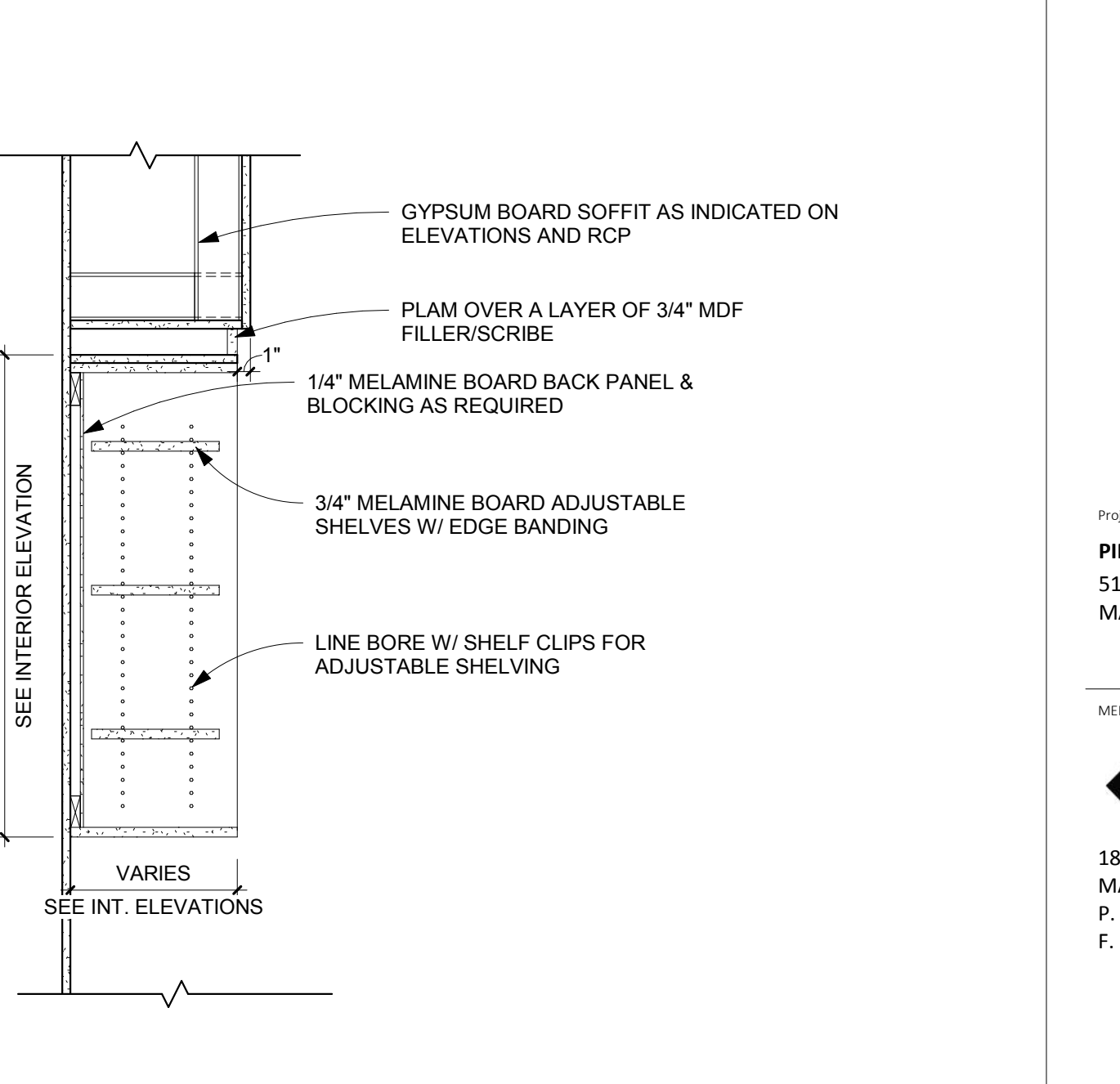
7 CASEWORK DETAIL - OPEN COUNTER
1" = 1'-0"



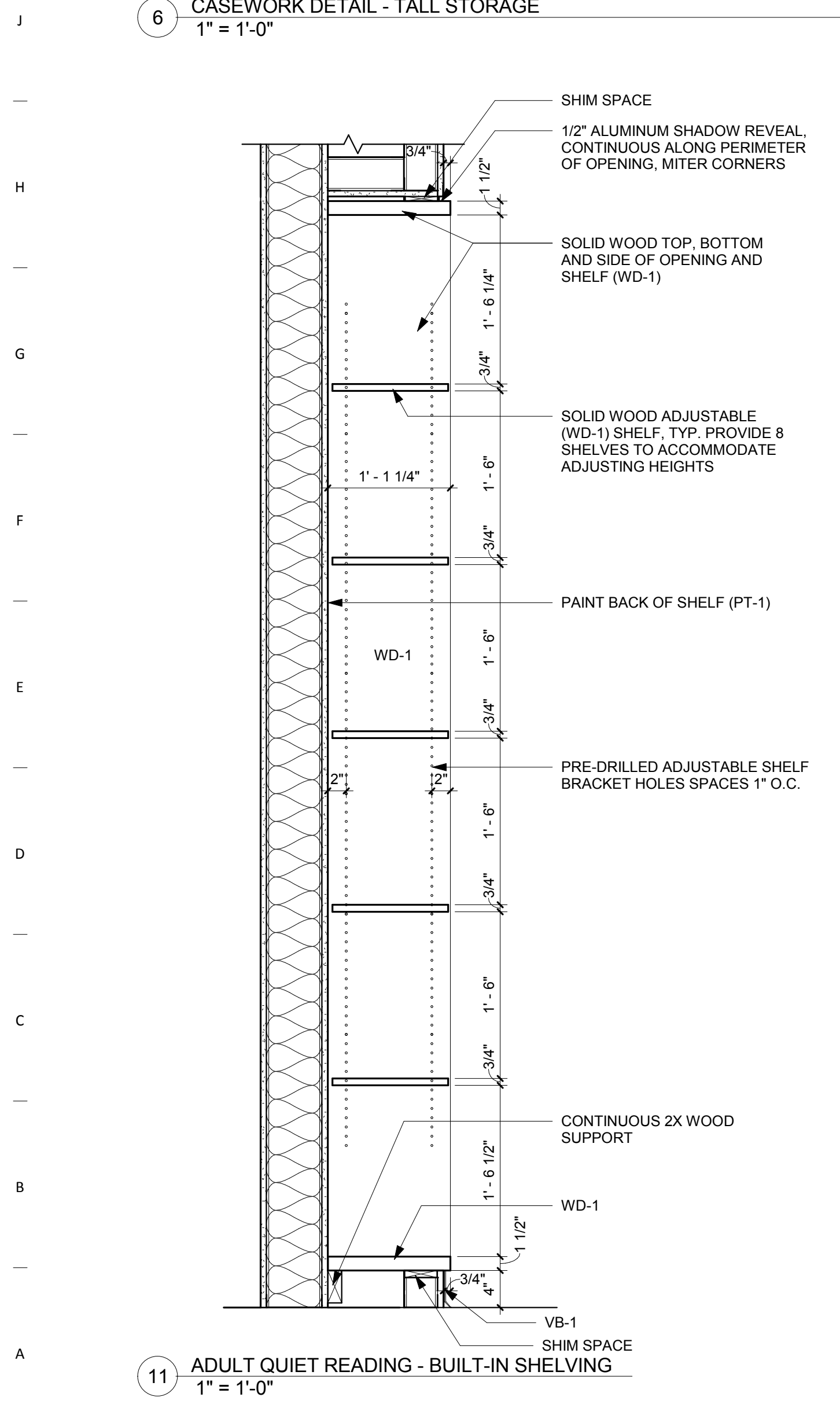
8 CASEWORK DETAIL - OPEN SHELVING
1" = 1'-0"



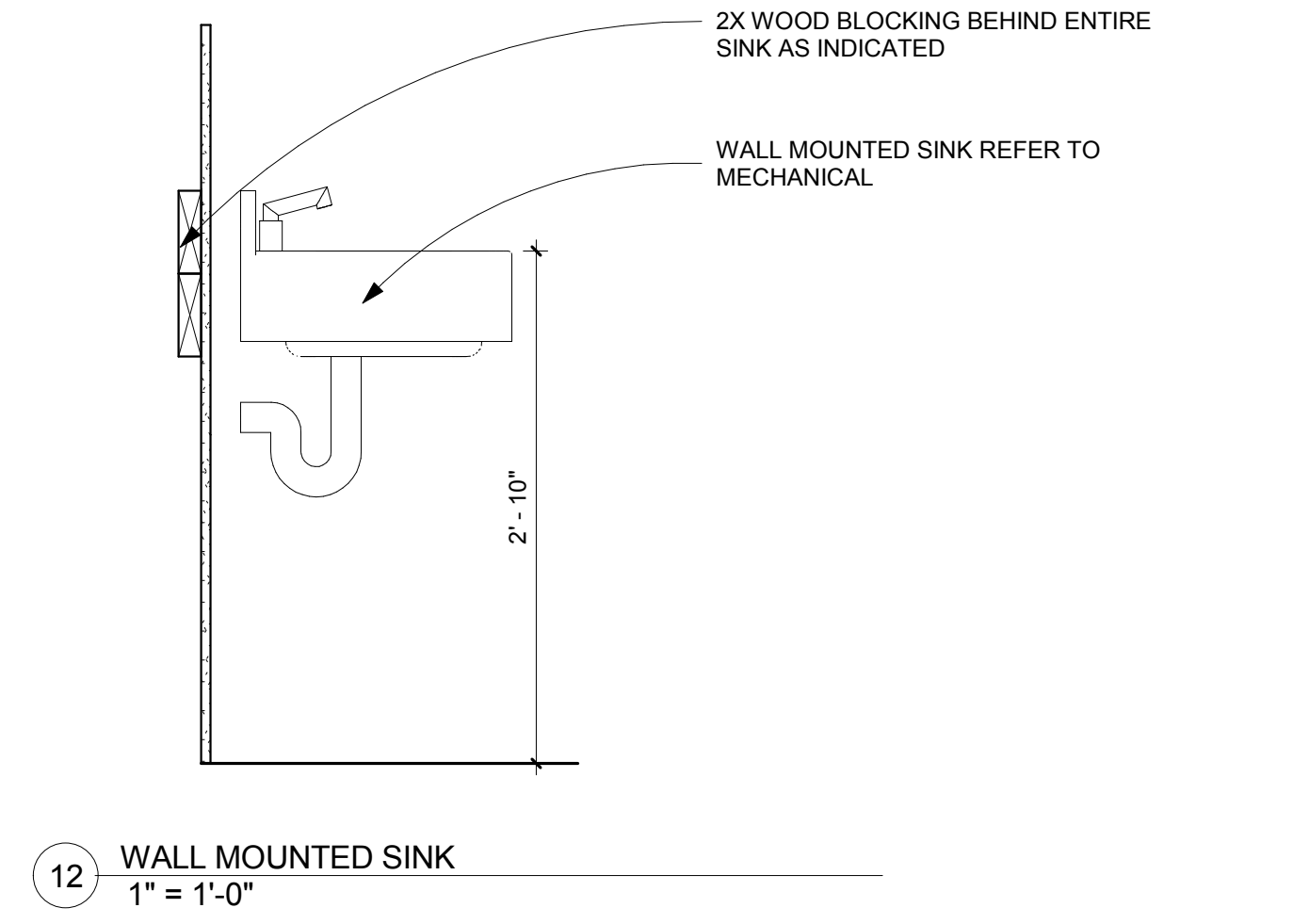
9 CASEWORK DETAIL - TYPICAL UPPERS
1" = 1'-0"



10 CASEWORK DETAIL - OPEN UPPER SHELVING
1" = 1'-0"



11 ADULT QUIET READING - BUILT-IN SHELVING
1" = 1'-0"



12 WALL MOUNTED SINK
1" = 1'-0"



Project
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MADISON, WI

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Key Plan

Revision Date

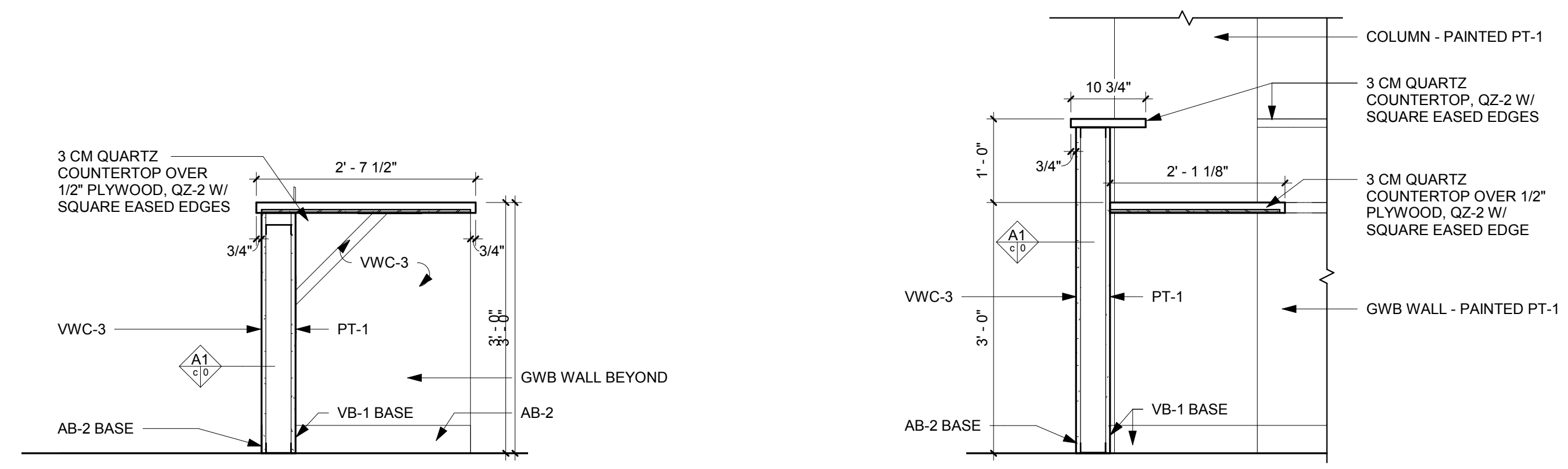
City Contract No.
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OPN Project No.
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Sheet Issue Date
BID DOCUMENTS 11/30/2018

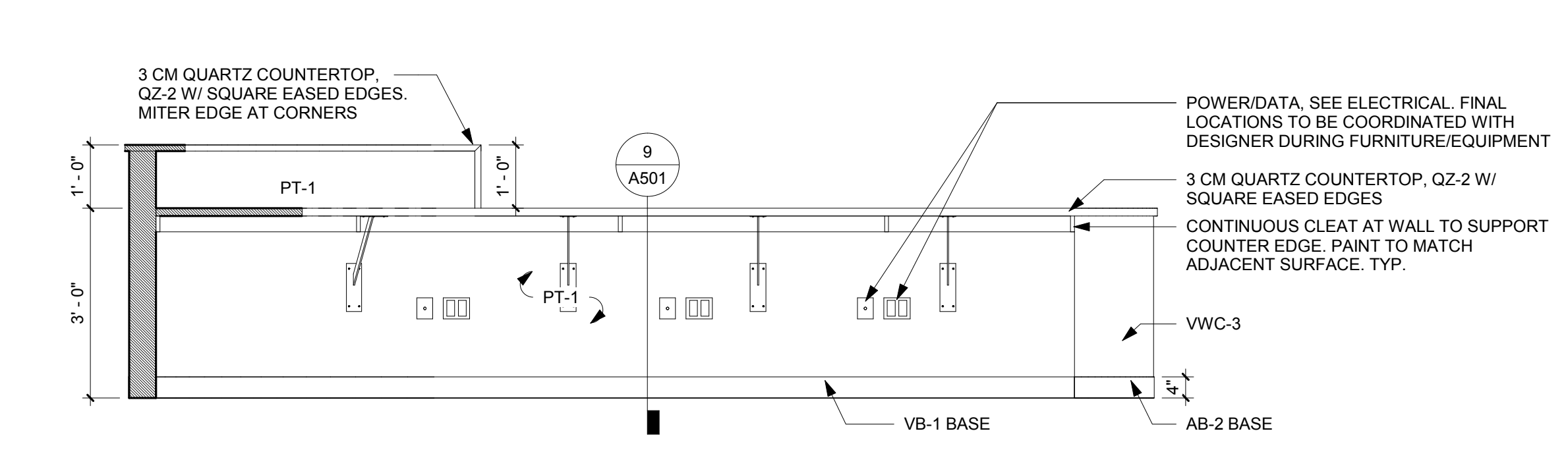
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CUSTOM CASEWORK DETAILS
Sheet Number

A501

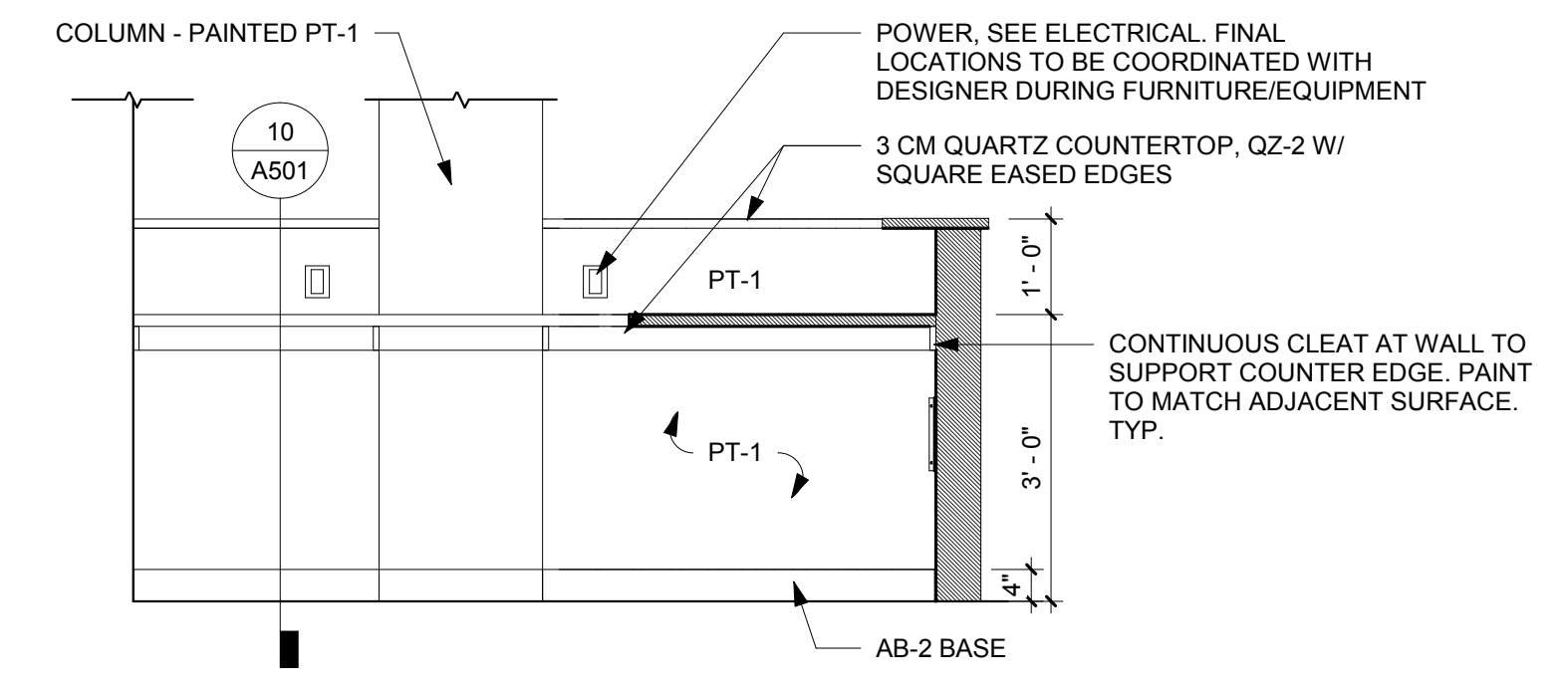


9 CIRCULATION DESK COUNTER - SECTION
3/4" = 1'-0"

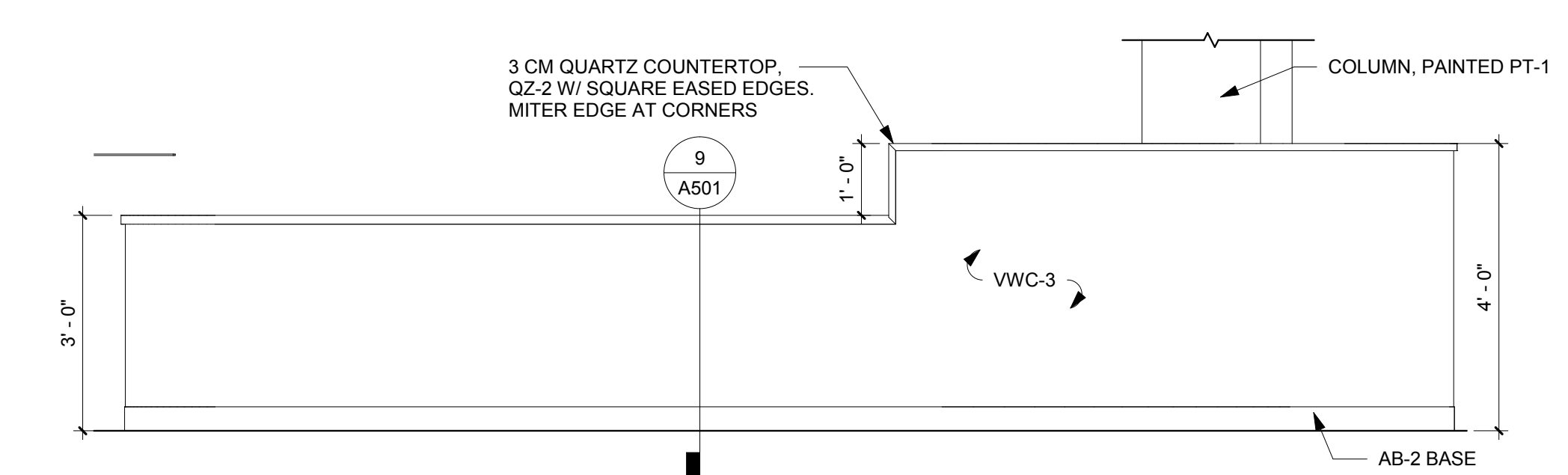
10 CIRCULATION DESK TRANSACTION - SECTION
3/4" = 1'-0"



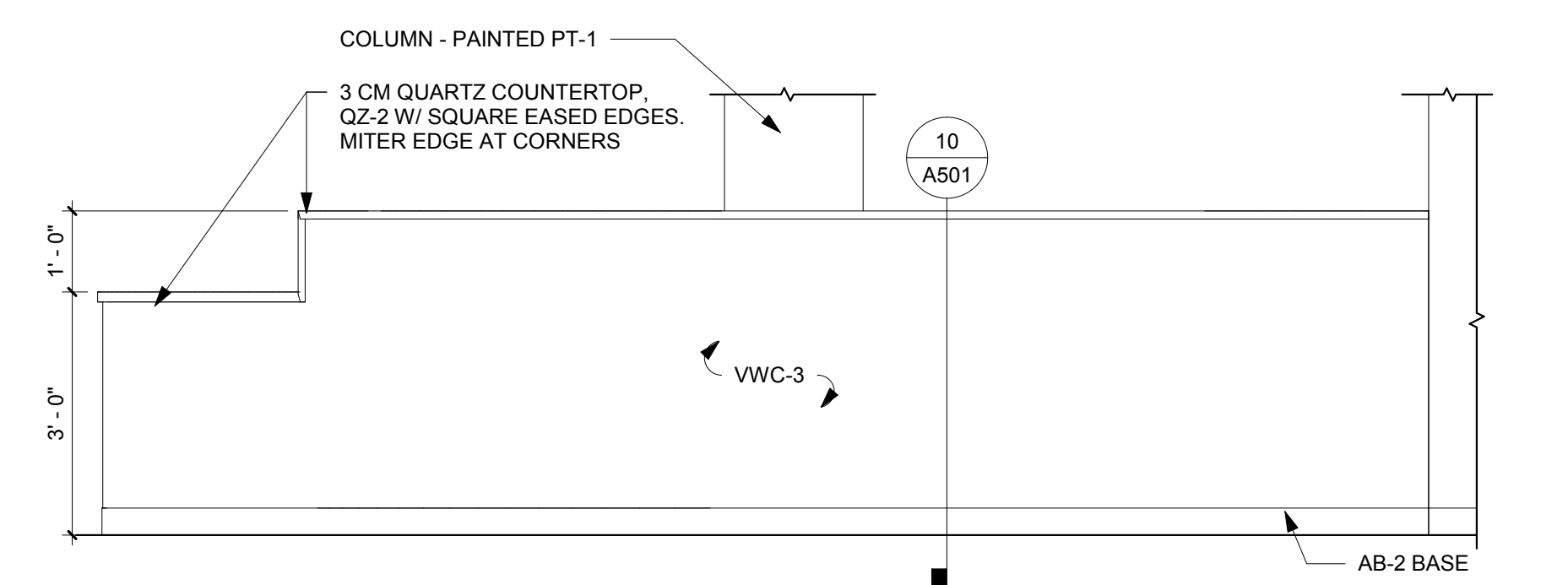
5 CIRCULATION DESK - SOUTHWEST ELEVATION
1/2" = 1'-0"



4 CIRCULATION DESK - SOUTH ELEVATION
1/2" = 1'-0"

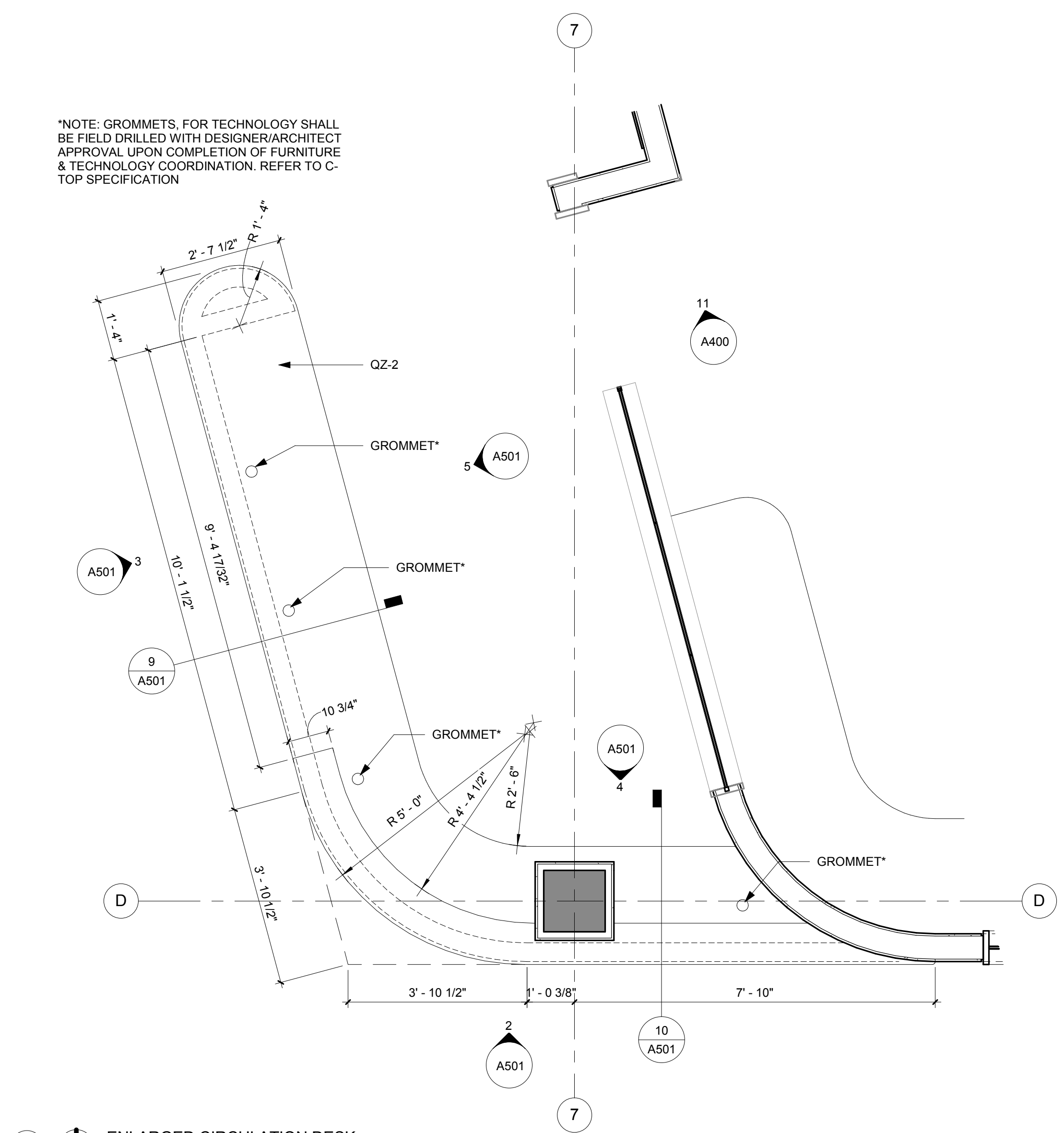


3 CIRCULATION DESK - NORTHEAST ELEVATION
1/2" = 1'-0"



2 CIRCULATION DESK - NORTH ELEVATION
1/2" = 1'-0"

*NOTE: GROMMETS, FOR TECHNOLOGY SHALL BE FIELD DRILLED WITH DESIGNER/ARCHITECT APPROVAL UPON COMPLETION OF FURNITURE & TECHNOLOGY COORDINATION. REFER TO C-TOP SPECIFICATION



1 ENLARGED CIRCULATION DESK
1/2" = 1'-0"

MATERIALS LIST:

ACOUSTICAL CEILING TILE:

ACT-1: MANUFACTURER: ARMSTRONG
STYLE: OPTIMA
SIZE: 2' X 2'
GRID: 9/16" WHITE
EDGE PROFILE: SQUARE REGULAR
COLOR: WHITE
PERIMETER TRIM: WHITE
APPLICATION: AS SCHEDULED AND AS INDICATED ON DRAWINGS

ACT-2: MANUFACTURER: ARMSTRONG
STYLE: OPTIMA
SIZE: 4' X 4'
GRID: 9/16" WHITE
EDGE PROFILE: SQUARE REGULAR
COLOR: WHITE
PERIMETER TRIM: WHITE
APPLICATION: AS SCHEDULED AND AS INDICATED ON DRAWINGS

ACOUSTICAL WALL PANEL:

AWP-1: MANUFACTURER: NOVAVALL
STYLE: ECOTRACK
THICKNESS: 2"
SIZE: VARIES - SEE ELEVATIONS
EDGE PROFILE: WRAPPED SQUARE
APPLICATION: AS INDICATED ON DRAWINGS

FABRIC:
MANUFACTURER: CARNEGIE XOREL
STYLE: METEOR
COLOR: 765

ACRYLIC RESIN FABRICATION:

AR-1: MANUFACTURER: LIGHTBLOCKS
STYLE: OPAQUE PALETTE
COLOR: MATCH PT-3
THICKNESS: AS INDICATED ON DRAWINGS
APPLICATION: CUSTOM PLAYLAB WINDOW FRAME FABRICATIONS

ALUMINUM BASE:

AB-1: MANUFACTURER: FRY REGLET
STYLE: REVEAL BASE MW85400
FINISH: ANODIZED ALUMINUM - SATIN
SIZE: 1/2" DEPTH, 4" HEIGHT

AB-2: STYLE: STRAIGHT
FINISH: ANODIZED ALUMINUM - SATIN
SIZE: 1/4 GAUGE, 4" HEIGHT

CORNER GUARD:

CG-1: MANUFACTURER: INPRO
STYLE: 1 1/2" WING SURFACE MOUNT
16GA STAINLESS STEEL
HEIGHT: FULL HEIGHT OF GYPSUM BOARD CORNER AND AS INDICATED ON ELEVATIONS. CORNER GUARD TO START AT TOP OF WALL BASE
LOCATION: ALL OUTSIDE GYPSUM BOARD CORNERS
INSTALL: CEMENT ON (NO SCREWS)

CARPET:

CPT-1: MANUFACTURER: INTERFACE
STYLE: WW870
COLOR: CHARCOAL WEFT
SIZE: 25CM X 1M
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR
CONTACT: AMY SIMMONS 515 414 6231

CPT-2: MANUFACTURER: INTERFACE
STYLE: SUMMERHOUSE SHADES
COLOR: CHARCOAL
SIZE: 25CM X 1M
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR

CPT-3: MANUFACTURER: INTERFACE
STYLE: ON LINE
COLOR: PEPPER
SIZE: 25CM X 1M
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR

CPT-4: MANUFACTURER: INTERFACE
STYLE: SUMMERHOUSE BRIGHTS
COLOR: PAPRIKA / NATURAL
SIZE: 50CM X 50 CM
APPLICATION: AS SCHEDULED
INSTALLATION: NON-DIRECTIONAL

CPT-5: MANUFACTURER: INTERFACE
STYLE: WW880
COLOR: CHARCOAL LOOM
SIZE: 25CM X 1M
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR

CPT-6: MANUFACTURER: INTERFACE
STYLE: WW870
COLOR: CHARCOAL WEFT
SIZE: 25CM X 1M
BACKING: CUSHOBAC RENEW
APPLICATION: AS SCHEDULED
INSTALLATION: ASHLAR

DECORATIVE FELT PANEL:

DFP-1: MANUFACTURER: FILZFELT
STYLE: AKUSTIKA 10 WALL
COLOR: 312 LAGUNE
EDGE STYLE: WRAPPED
MOUNTING STYLE: INTERLOCKING
MOUNTING SYSTEM
APPLICATION: STUDY ROOMS

GLASS BOARD:

GB-1: MANUFACTURER: CLARUS
STYLE: FLOAT
COLOR: CBC-100 PURE WHITE
SIZE: SEE ELEVATIONS
NOTE: MAGNETIC

GB-2: MANUFACTURER: CLARUS
STYLE: FLOAT
COLOR: TO MATCH PT-5
SIZE: SEE ELEVATION
NOTE: MAGNETIC

GLASS:

GL-1: MANUFACTURER: SEE SPECIFICATIONS
STYLE: TEMPERED
COLOR: CLEAR
THICKNESS: 3/8" TYPICAL, OTHER THICKNESSES AS REQUIRED FOR APPLICATION
SIZE: SEE ELEVATIONS

GROUT:

G-1: MANUFACTURER: BOSTIK TRU COLOR
COLOR: DELOREAN GRAY H160
APPLICATION: TO BE USED WITH PCT-1

G-2: MANUFACTURER: BOSTIK TRU COLOR
COLOR: MISTY GRAY H144
JOINT THICKNESS: 1/8"
APPLICATION: TO BE USED WITH PCT-2

LINEAR ACOUSTIC WOOD CEILING:

LWC-1: MANUFACTURER: ARCHITECTURAL COMPONENTS GROUP, INC.
STYLE: LINEAR SERIES 2 (LO2)
FINISH: WD-1
APPLICATION: SUSPENDED WOOD CEILING SYSTEM

PLASTIC LAMINATE:

PLAM-1: MANUFACTURER: WILSONART
COLOR: GREY
FINISH: MATTE
APPLICATION: VERTICAL CASEWORK, MODESTY PANELS

PAINT - EPOXY:

EPT-1: MANUFACTURER: GLIDDEN
COLOR: TO MATCH PT-1
SHEEN: FLAT EPOXY
APPLICATION: JANITORIAL/STORAGE AREAS

EPT-2:

MANUFACTURER: GLIDDEN
COLOR: TO MATCH PT-3
SHEEN: FLAT EPOXY
APPLICATION: READING NICHES

PAINT:

PT-1: MANUFACTURER: PPG
COLOR: SWIRLING SMOKE 1007-2
SHEEN: EGGSHELL @ WALLS, SEMI-GLOSS @ DOOR FRAMES
APPLICATION: FIELD, DOOR FRAMES

PT-2: MANUFACTURER: SHERWIN WILLIAMS
COLOR: EXTRA WHITE SW 7006
SHEEN: FLAT
APPLICATION: CEILING/SOFFIT

PT-3: MANUFACTURER: GLIDDEN
COLOR: BEAR RUN #10BG 46/112
SHEEN: EGGSHELL @ WALLS, FLAT @ CEILINGS
APPLICATION: BLUE ACCENT

PT-4: MANUFACTURER: GLIDDEN
COLOR: SALSA #10YR 14/348
SHEEN: EGGSHELL AT WALLS, FLAT AT CEILINGS
APPLICATION: RED ACCENT

PT-5: MANUFACTURER: SHERWIN WILLIAMS
COLOR: MATURE GRAPE
SHEEN: EGGSHELL
APPLICATION: PURPLE ACCENT

PORCELAIN/CERAMIC TILE:

PCT-1: MANUFACTURER: DAL TILE
STYLE: AMBASSADOR
COLOR: JET SETTER
SIZE: 12" X 24"
APPLICATION: CUSTOM DIGITAL WALL COVERING AT LOCATIONS INDICATED ON DRAWINGS

PCT-2: MANUFACTURER: ERGON
COLLECTION: TREND
STYLE: MAJOLICA
COLOR: WHITE
FINISH: GLOSS
SIZE: 12.25 CM X 25 CM
APPLICATION: RESTROOM WALL TILE
CONTACT: MICHAEL MONTORSI 630-539-4470

PCT-3: MANUFACTURER: ERGON
COLLECTION: TREND
STYLE: MAJOLICA
COLOR: WHITE
FINISH: GLOSS
SIZE: 12.25 CM X 25 CM
APPLICATION: RESTROOM WALL TILE
CONTACT: MICHAEL MONTORSI 630-539-4470

PCT-4: MANUFACTURER: WOLF GORDON
STYLE: TIVOLI
COLOR: NECTAR
APPLICATION: NEW MOM'S ROOM

QUARTZ:

QZ-1: MANUFACTURER: WILSONART
COLOR: PAPER LANTERN Q6001
THICKNESS: 3CM AT COUNTERTOPS, 2CM AT OTHER APPLICATIONS
APPLICATION: SILLS @ EXTERIOR WINDOWS, CUSTOM FABRICATIONS, COUNTERTOPS - SEE ELEVATIONS

QZ-2: MANUFACTURER: ZODIAQ
COLOR: SNOWDRIFT
THICKNESS: 3CM
APPLICATION: COUNTERTOPS - SEE ELEVATIONS

QZ-3: MANUFACTURER: DIFINITI
COLOR: SILVER LAKE
THICKNESS: 2CM
APPLICATION: PLAY LAB TRIM DETAIL

RAISED ACCESS FLOOR FINISH:

RAF-1: MANUFACTURER: CAPRI
STYLE: MEDITERRA HOMOGENEOUS CORK
COLOR: DARK
THICKNESS: 6/16"
APPLICATION: CHILDREN'S PROGRAM ROOM, FAMILY STUDY ROOM, CREATOR SPACE, COMMUNITY ROOM
NOTE: TATEKINGSPAN FACTORY LAMINATED CORK

RAF-2: MANUFACTURER: FORMICA
STYLE: HPL
COLOR: STONE GRAFIX
APPLICATION: IT ROOM
NOTE: TATEKINGSPAN FACTORY LAMINATED HPL

RAF-3: UNFINISHED TATEKINGSPAN RAISED ACCESS FLOOR TILE

WOOD:

WD-1: SPECIES: URBAN ASH
SOURCE: STATE OF WISCONSIN, REFER TO SPECIFICATIONS FOR SPECIFIC WOOD INSTALLATION
SIZE: AS INDICATED ON DRAWINGS
STAIN: TO MATCH DESIGNERS SAMPLE
APPLICATION: CEILING, WOOD WALL CLADDING, INTERIOR DOOR AND WINDOW JAMBS

WD-2: SPECIES: ASH
CUT: PLAIN SLICE
STAIN: TO MATCH DESIGNERS SAMPLE
APPLICATION: WOOD DOORS

RESILIENT FLOOR:

RF-1: MANUFACTURER: MANNINGTON
STYLE: BIOSPEC
COLOR: STONE GRAY
APPLICATION: JANITORS CLOSET
NOTE: TO BE INSTALLED IN FIELD OVER RAF SYSTEM.

RF-2: MANUFACTURER: FUJIMATS
COLOR: GREY
THICKNESS: 9/16"
INSTALLATION: ASHLAR
APPLICATION: CHILDREN'S PROGRAM ROOM, PLAYLAB, AND READING NICHE
NOTE: TO BE INSTALLED IN FIELD OVER RAF SYSTEM.

ROLLER SHADES:

RS-1: MANUFACTURER: LUTRON
SHADECLOTH: BASKETWEAVE
OPENNESS FACTOR: 3%
COLOR: CHARCOAL
OPERATION METHOD: AUTOMATED
APPLICATION: SEE PLANS

RS-2: MANUFACTURER: LUTRON
STYLE: DOUBLE ROLL
OPERATION METHOD: AUTOMATED
APPLICATION: COMMUNITY ROOM

SHADECLOTH 1: BASKETWEAVE
OPENNESS FACTOR: BLACKOUT
COLOR: CHARCOAL

SHADECLOTH 2: BASKETWEAVE
OPENNESS FACTOR: 3%
COLOR: CHARCOAL

RS-3: MANUFACTURER: LUTRON
SHADECLOTH: BASKETWEAVE
OPENNESS FACTOR: 3%
COLOR: CHARCOAL
OPERATION METHOD: MANUAL
APPLICATION: SEE PLANS

SOLID SURFACE:

SSM-1: MANUFACTURER: INPRO
STYLE: BIOPRISM
COLOR: BRIGHT WHITE P9011
THICKNESS: 1/4"
APPLICATION: SHOWER WALL PANELS

VINYL BASE:

VB-1: MANUFACTURER: JOHNSONITE
STYLE: 4" ROLLED WOODS ONLY
COLOR: GATEWAY
STRAIGHT @ CARPET, COVE @ HARD FLOORING

VINYL FILM:

VF-1: MANUFACTURER: 3M
STYLE: FASARA
COLOR: 180 FROM ALL FASARA STYLE SELECTIONS
APPLICATION: SEE ELEVATIONS FOR DETAILS AND DIMENSIONS

VINYL WALLCOVERING:

VWC-1: MANUFACTURER: DL COUCH
PRODUCT: DIGITAL IMAGINARIUM
COLOR: CUSTOM DESIGN
TEXTURE/PATTERN: MYSTICAL
APPLICATION: CUSTOM DIGITAL WALLCOVERING AT LOCATIONS INDICATED ON DRAWINGS

VWC-2: MANUFACTURER: DL COUCH
STYLE: BEACON HILL
COLOR: PALE OAK
APPLICATION: RESTROOMS

VWC-3: MANUFACTURER: CARNEGIE
STYLE: XOREL
PATTERN: PRISM
COLOR: 161
APPLICATION: CORE ACCENT WALLS

VWC-4: MANUFACTURER: WOLF GORDON
STYLE: TIVOLI
COLOR: NECTAR
APPLICATION: NEW MOM'S ROOM

WALL PROTECTION:

WP-1: MANUFACTURER: INPRO
STYLE: PALLADIUM RIGID SHEET
COLOR: TAUPE 0113
SIZE: 4' X 8'
APPLICATION: PROGRAM ROOM, STORAGE, AND JANITORIAL
NOTES: PROVIDE COLOR MATCHING INSIDE, OUTSIDE, PANEL DIVIDER, AND TERMINATION TRIM

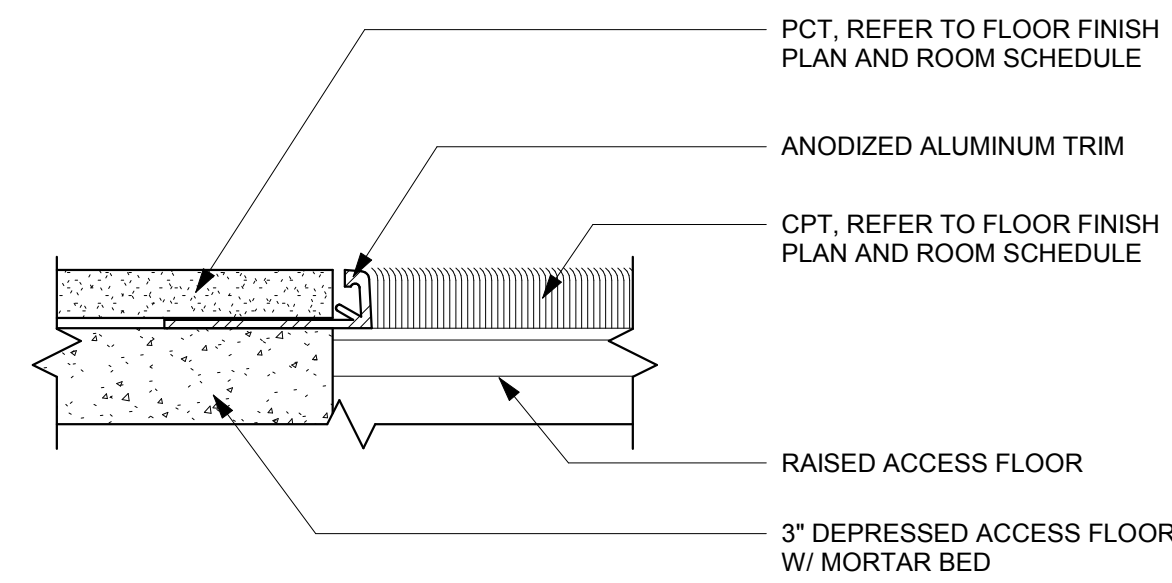
WALK OFF CARPET TILE:

WOC-1: MANUFACTURER: INTERFACE
STYLE: STEP REPEAT
PATTERN: SR999
COLOR: IRON
SIZE: 50CM X 50CM
APPLICATION: ENTRY VESTIBULE

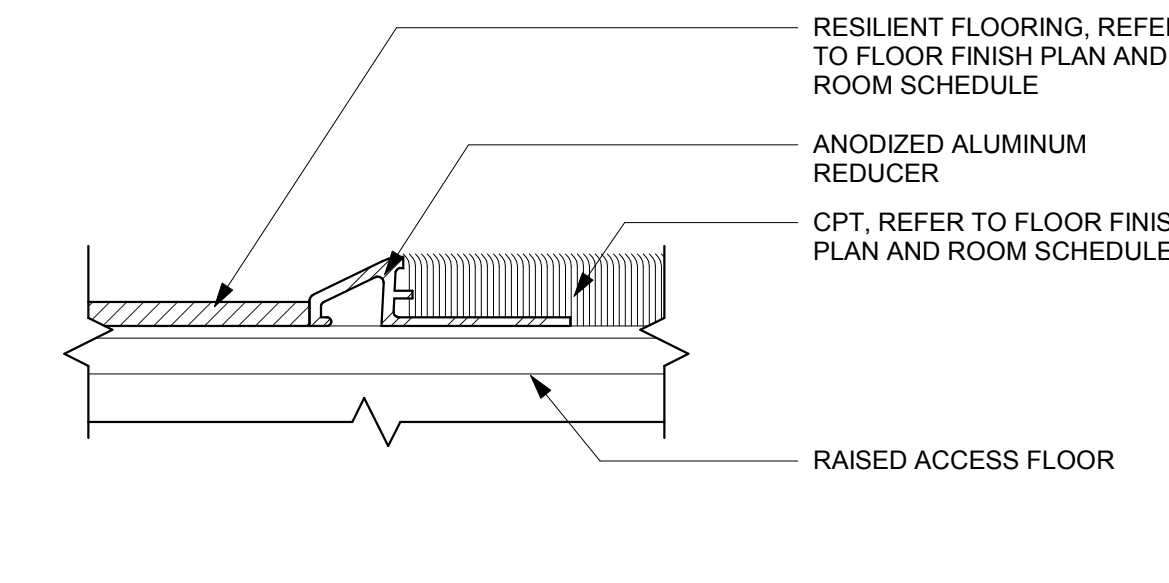
ROOM #	ROOM NAME	FLOOR				WALL FINISH				CEILING MATERIAL	CEILING FINISH	REMARK
		FINISH	BASE	NORTH	EAST	SOUTH	WEST					
102	LOBBY	WOC-1/CPT-3	VB-1/AB-2	VWC-3	PT-1	PT-4	--	ACT-2/ LWC-1	--/--	1, 2, 3, 4		
103	PINNEY STUDIO	RAF-1	VB-1	PT-4	PT-1	PT-1	PT-4	ACP-1	--	2, 6		
103A	STUDIO STORAGE	RAF-1	VB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACP-1	--			
104	MECH CLOSET	RAF-3	VB-1	EPT-1	EPT-1	EPT-1	EPT-1	OTS	PT-2			
105	SORTING / CIRC. WORK	CPT-6	VB-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	ACT-1	--	5		
106	CIRCULATION	CPT-1, 2, 3, 5	AB-2	--	VWC-3	--	--	LWC-1	--	1		
107	HOLDS / BUSINESS CENTER	CPT-1, 2, 3, 5	AB-2	--	PT-1/WVC-3	--	--	LWC-1/ GWB	--/PT-2	1, 3, 6		
108	ADULT FICTION/NON-FICTION	CPT-1, 2, 3, 4, 5	VB-1/AB-1, 2	PT-1, 4/WVC-3	PT-4/WVC-3	PT-1, 4	PT-1, 4/WVC-3/DFP-1	ACT-2/ LWC-1	--/--	1, 2, 3, 4, 6, 9		
109	STUDY ROOM	CPT-1, 2, 4, 5	VB-1	PT-1	PT-1	PT-1	PT-1/DFP-1	ACT-1	--	1, 2, 4		
110	STUDY ROOM	CPT-1, 2, 4, 5	VB-1	PT-1	PT-1	PT-1	PT-1/DFP-1	ACT-1	--	1, 2, 4		
111	STUDY ROOM	CPT-1, 2, 4, 5	VB-1	PT-1	PT-1	PT-1	PT-1/DFP-1	ACT-1	--	1, 2, 4		
112	STUDY ROOM	CPT-1, 2, 4, 5	VB-1	PT-1	PT-1	PT-1	PT-1/DFP-1	ACT-1	--	1, 2, 4		
113	ADULT QUIET READING	CPT-1, 2, 3, 5	VB-1	PT-4	PT-1/PT-4	PT-1	PT-1	ACT-1/LWC-1/GWB	--/--/PT-2	1, 2, 3		
114	COMMUNITY ROOM 1	CPT-1, 2, 4, 5	VB-1	PT-1/WP-1	--	PT-1/WP-1	PT-1	ACT-1	--	1, 2, 5		
114A	STORAGE	CPT-1, 2, 5	VB-1	PT-1/ WP-1	PT-1/ WP-1	PT-1/ WP-1	PT-1/ WP-1	ACT-1	--	1		
115	COMMUNITY ROOM 2	CPT-1, 2, 4, 5	VB-1	PT-1/ WP-1	PT-1/ AWP-1/ GB-1	PT-1/ WP-1	--	ACT-1	--	1, 2, 5, 6		
115A	AV CLOSET	CPT-1, 2, 5	VB-1	PT-1	PT-1	PT-1	PT-1	GWB	PT-2	1		
116	PUBLIC RESTROOM CORRIDOR	PCT-1	PCT-1	PT-1	--/PT-1	PT-1	PT-1	ACT-1/GWB	--/PT-2	2		
116A	ADA TLT	PCT-1	PCT-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	GWB	PT-2	2		
116B	TLT	PCT-1	PCT-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	GWB	PT-2	2		
116C	TLT	PCT-1	PCT-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	GWB	PT-2	2		
116D	ADA TLT	PCT-1	PCT-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	GWB	PT-2	2		
116E	ADA TLT	PCT-1	PCT-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	GWB	PT-2	2		
116F	JANITORS CLOSET	RF-1	WP-1	WP-1	WP-1	WP-1	WP-1	OTS	PT-2	2		
120	SCHOOL AGED CHILDREN'S COLLECTION	CPT-1, 2, 3, 4, 5	VB-1/AB-2	PT-1	PT-1	PT-1	PT-1/WVC-3	ACT-2/LWC-1	--/--	1, 2, 3, 4, 7		
121	CHILDREN'S COLLECTION	CPT-1, 2, 3, 5/WOM-1	VB-1	PT-1	--	PT-1	--	ACT-2/LWC-1	--/--	1, 2, 3		
122	PLAYLAB	RF-2	VB-1/AB-2	PT-1/WD-1	--	PT-1/WVC-3	PT-1/WVC-1/WD-1	ACT-2/LWC-1	--/--	1, 2, 3, 4		
122A	READING NICHE	RF-2	VB-1	EPT-2	EPT-2	--	EPT-2	GWB	EPT-2	8		
122B	READING NICHE	QZ-3	--	EPT-2	EPT-2	--	EPT-2	GWB	EPT-2	8		
123	CHILDREN'S PROGRAM ROOM	RF-2	VB-1/AB-1	PT-1	PT-1	PT-1	PT-1/DFP-2	ACT-1	--	2, 4, 6		
123A	CHILDREN'S PROGRAM STORAGE	RAF-1	VB-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	ACT-1	--			
124	FAMILY STUDY ROOM	RAF-1	VB-1	PT-1	PT-1	PT-5	PT-1	ACT-1	--	2		
125	ADA FAMILY RESTROOM	PCT-1	PCT-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	GWB	PT-2	2		
126	ADA FAMILY RESTROOM	PCT-1	PCT-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	GWB	PT-2	2		
127	COMFORT ROOM	RAF-1	VB-1/PCT-2	WVC-4	PCT-2/WVC-4	PCT-2/WVC-4	PCT-2/WVC-4	GWB	PT-2	2, 4		
128	SHIPPING/ RECEIVING	WOC-1	VB-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	ACT-1	--	1, 2		
129	IT ROOM	RAF-2	VB-1	PT-1	PT-1	PT-1	PT-1	OTS	PT-2	10		
130	PROJECT WORK ROOM	WOC-1	VB-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	PT-1/WP-1	ACT-1	--	1, 2, 6		
131	STAFF OPEN OFFICE	WOC-1	VB-1	PT-1	--	PT-5	PT-1	ACT-1	--	1, 2, 6		
132	BREAK ROOM	RAF-1	VB-1	PT-5	PT-1, 5	PT-1	PT-1	ACT-1	--	2		
133	SUPERVISOR'S OFFICE	CPT-1, 2, 5	VB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	--	1		
134	LIBRARIAN OFFICES	CPT-1, 2, 5	VB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	--	1		
135	ADA STAFF RESTROOM	PCT-1	PCT-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	PCT-2/WVC-2	GWB	PT-2	2		
136	DRIVE-THRU BOOK RETURN	WOC-1	VB-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1/WP-1	EPT-1	ACT-1	--	1		

ROOM FINISH SCHEDULE REMARKS

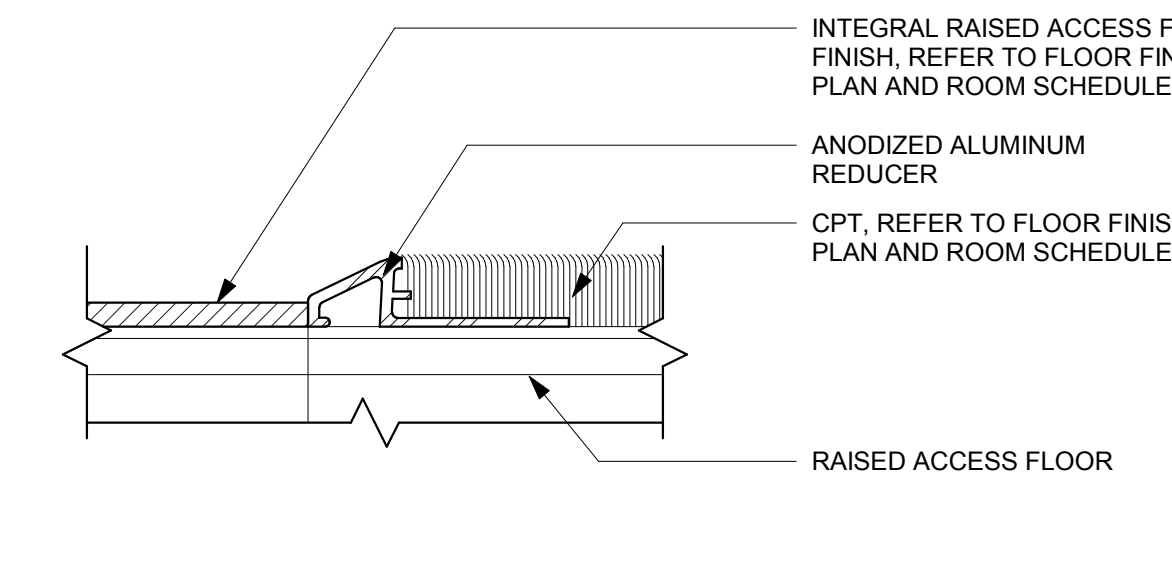
- MULTIPLE FLOOR FINISHES. REFER TO FLOOR FINISH PLANS FOR ADDITIONAL INFORMATION.
- MULTIPLE WALL FINISHES. REFER TO FLOOR FINISH PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
- MULTIPLE CEILING FINISHES. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
- MULTIPLE BASE FINISHES. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
- ROOM TO RECEIVE ACOUSTICAL WALL PANEL (AWP). SEE ELEVATIONS FOR DETAILS.
- ROOM TO RECEIVE MAGNETIC BACKPAINTED GLASS BOARDS(S) (GB). SEE ELEVATIONS FOR DETAILS.
- ROOM TO RECEIVE WALL MOUNTED LIGHTBLOCKS SHELVING INSTALLATION. SEE ELEVATIONS FOR DETAILS.
- ROOM TO HAVE RECESSED WOOD CUBBIES. SEE ELEVATIONS/SECTIONS FOR DETAILS.
- WALL TO HAVE RECESSED PICTURE RAIL. SEE ELEVATIONS FOR DETAILS.
- ALL WALLS TO BE 3/4" FIRE RETARDANT AC PLYWOOD FROM 4" A.F. TO 8" O" A.F.F., PAINT TO MATCH WALL.



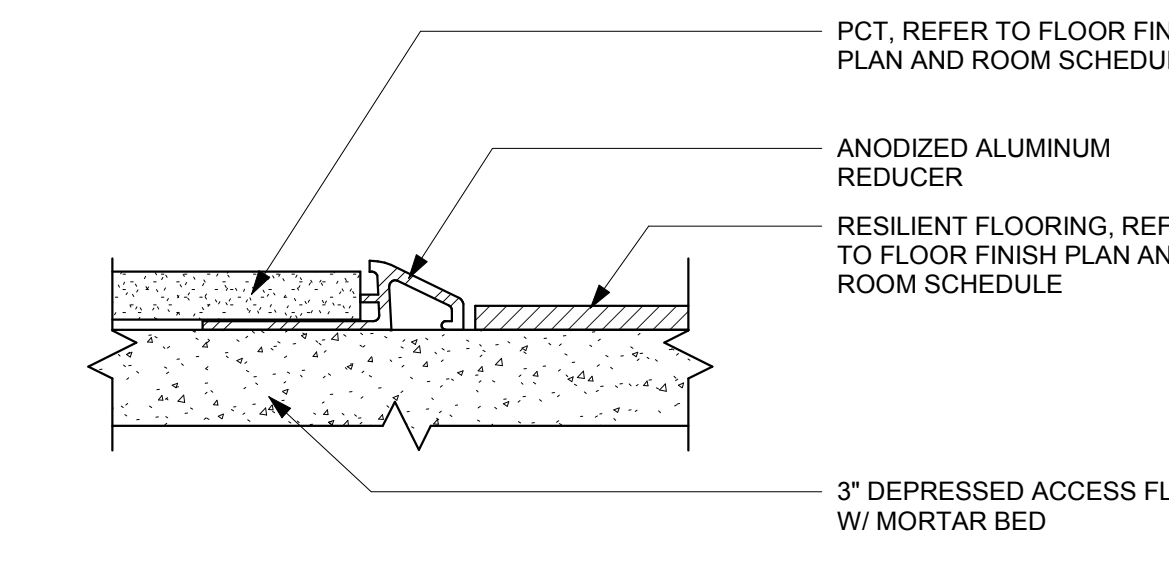
2 TYP. CARPET TO PORCELAIN TILE TRANSITION DETAIL



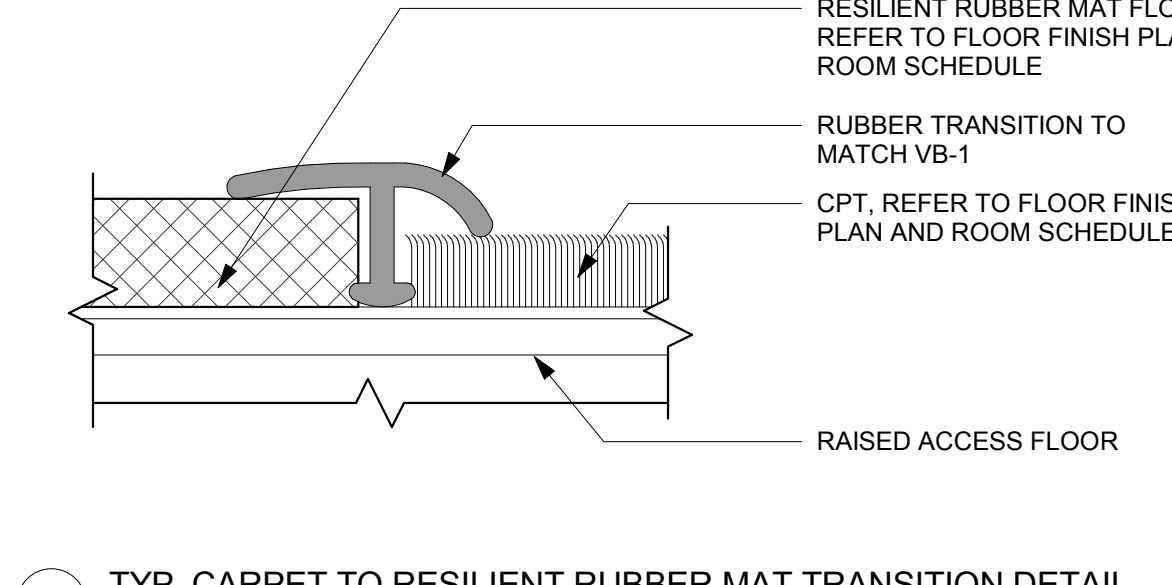
3 TYP. CARPET TO RESILIENT TRANSITION DETAIL



4 TYP. CARPET TO INTEGRAL RAISED FLOOR FINISH



5 TYP. PORCELAIN TILE TO RESILIENT TRANSITION DETAIL



6 TYP. CARPET TO RESILIENT RUBBER MAT TRANSITION DETAIL

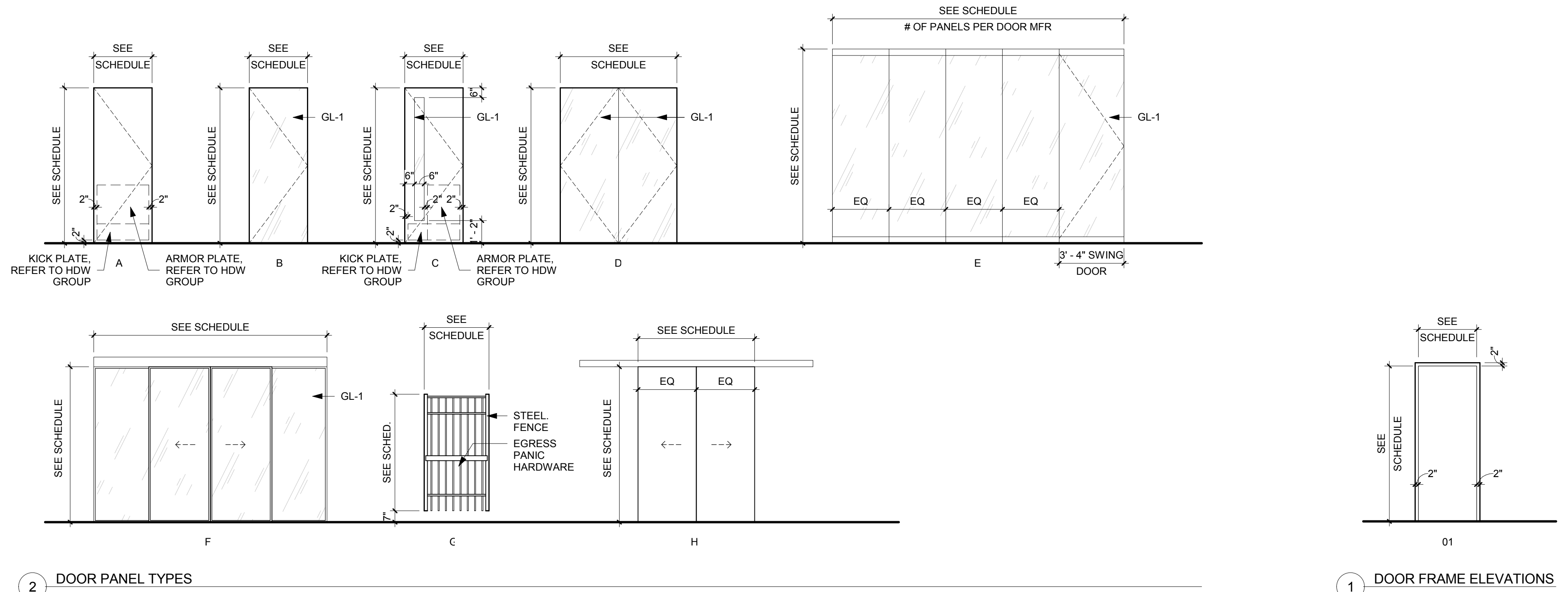
ROOM FINISH NOTES

- START FULL WALL TILE AS SHOWN
- START FULL FLOOR TILE AS SHOWN
- REFER TO SHEET A6002 FOR TYPICAL MOUNTING HEIGHTS
- REFER TO INTERIOR ELEVATIONS AND FINISH FLOOR PLAN FOR ADDITIONAL FINISH INFORMATION.
- ALL PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH THE COLOR OF THE WALL IN WHICH THEY OCCUR U.N.O.
- ALL EXPOSED DRYWALL TO RECEIVE PAINT UNLESS NOTED OTHERWISE.
- EXTEND FLOORING INTO TOE SPACES, DOOR REVEALS, CLOSETS AND SIMILAR OPENINGS U.N.O.
- PROVIDE FLOORING TRANSITION STRIPS AT FLOOR MATERIAL CHANGES WITH DESIGNER PRIOR TO INSTALLATION

DOOR SCHEDULE REMARKS

- BORROWED LIGHT ELEVATION BL-1A
- BORROWED LIGHT ELEVATION BL-4
- BORROWED LIGHT ELEVATION BL-7A
- BORROWED LIGHT ELEVATION BL-8B
- BORROWED LIGHT ELEVATION BL-9
- BORROWED LIGHT ELEVATION BL-10
- BORROWED LIGHT ELEVATION BL-12
- BORROWED LIGHT ELEVATION BL-13
- PROVIDE 1/2" CLEAR UNDERCUT IN DOOR FOR AIR TRANSFER
- PROVIDE 3/4" CLEAR UNDERCUT IN DOOR FOR AIR TRANSFER
- ACOUSTIC SOUND RATED DOOR
- EXTEND TRACK/FASCIA ACROSS ENTIRE WALL. REFER TO ELEVATION FOR EXTENTS.
- GLASS BOARD GB-1 TO BE ADHERED TO EACH DOOR LEAF. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- VF-1 APPLIED TO DOOR GLAZING
- SLIDING PANEL PARTITION. REFER TO OPERABLE PARTITION SYSTEMS SPECIFICATION.
- VERTICAL OPERABLE PANEL PARTITION. REFER TO OPERABLE PARTITION SYSTEMS SPECIFICATION.

DOOR NUMBER	ROOM NAME	PANEL QUANTITY	PANEL TYPE	PANEL		PANEL MATERIAL	PANEL FINISH	FRAME			FIRE RATING	HARDWARE GROUP	REMARKS	
				WIDTH	HEIGHT			FRAME TYPE	MATERIAL	FINISH				
102	LOBBY	1	F	13'-0"	10'-0"	GL-1	GL-1	PER MFR	ALUM	CLEAR ANOD		2		
103	PINNEY STUDIO	1	D	6'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	1	
103A	STUDIO STORAGE	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		6		
104	MECH CLOSET	1	A	3'-6"	8'-0"	WD-2	PT-1	01	HM	PT-1		1	11	
105	SORTING / CIRC. WORK	1	A	3'-6"	8'-0"	WD-2	STN		ALUM	CLEAR ANOD		17	2,14	
109	STUDY ROOM	1	B	3'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	3, 10	
110	STUDY ROOM	1	B	3'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	3, 10	
111	STUDY ROOM	1	B	3'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	4, 10	
112	STUDY ROOM	1	B	3'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	5, 10	
113	ADULT QUIET READING	1	B	3'-6"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		2	6	
114	COMMUNITY ROOM 1	1	C	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		18		
114A.1	STORAGE	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		4		
114A.2	STORAGE	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		4		
115.1	COMMUNITY ROOM 2	2	C	3'-0"	8'-0"	WD	STN	01	HM	PT-1		19		
115.2	COMMUNITY ROOM 2	1	C	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		20		
115A	AV CLOSET	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		5		
115B		PER MFR	PER MFR	24'-0"	12'-0"	PER MFR	AWP-1	PER MFR	PER MFR	PER MFR		PER MFR	16	
116A	ADA TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116B	TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116C	TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116D	ADA TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116E	ADA TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116F	JANITORS CLOSET	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		21	9	
123.1	CHILDREN'S PROGRAM ROOM	PER MFR	E	16'-0"	10'-0"	GL-1	GL-1	PER MFR	ALUM	CLEAR ANOD		5	15	
123.2	CHILDREN'S PROGRAM ROOM	2	H	6'-0"	8'-2"	WD-2	PT-1	SLIDING DOOR. REFER TO HARDWARE SCHEDULE	ALUM	CLEAR ANOD		9	12, 13	
123A	CHILDREN'S PROGRAM STORAGE	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		11		
124	FAMILY STUDY ROOM	1	C	3'-0"	8'-0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		10	5, 10	
125	ADA FAMILY RESTROOM	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	10	
126	ADA FAMILY RESTROOM	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	10	
127	COMFORT ROOM	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		24	10	
128	SHIPPING/ RECEIVING	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		22	10	
129	IT ROOM	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		23		
132	BREAK ROOM	1	A	3'-6"	8'-0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	7	
133	SUPERVISOR'S OFFICE	1	C	3'-0"	8'-0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	8	
134	LIBRARIAN OFFICES	1	A	3'-6"	8'-0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	7	
135	ADA STAFF RESTROOM	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		8	10	
136	DRIVE-THRU BOOK RETURN	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1	60-MIN	12		
EX01	PINNEY STUDIO	1	EXISTING	3'-0"	8'-0"	ALUM	CLEAR ANOD	EXISTING	ALUM	CLEAR ANOD		16		
EX02	CHILDREN'S COLLECTION	1	EXISTING	3'-6"	8'-0"	ALUM	CLEAR ANOD	EXISTING	ALUM	CLEAR ANOD		13		
EX03.1	NORTH GARDEN PATIO	1	G	3'-6"	6'-2"	STL	PER FENCE DTL	PER FENCE DTL	STL	PER FENCE DTL		14		
EX03.2	NORTH GARDEN PATIO	1	G	3'-6"	6'-2"	STL	PER FENCE DTL	PER FENCE DTL	STL	PER FENCE DTL		14		
EX04	SHIPPING/ RECEIVING	1	EXISTING	4'-0"	7'-0"	HM	PT-1	EXISTING	HM	PT-1		13		

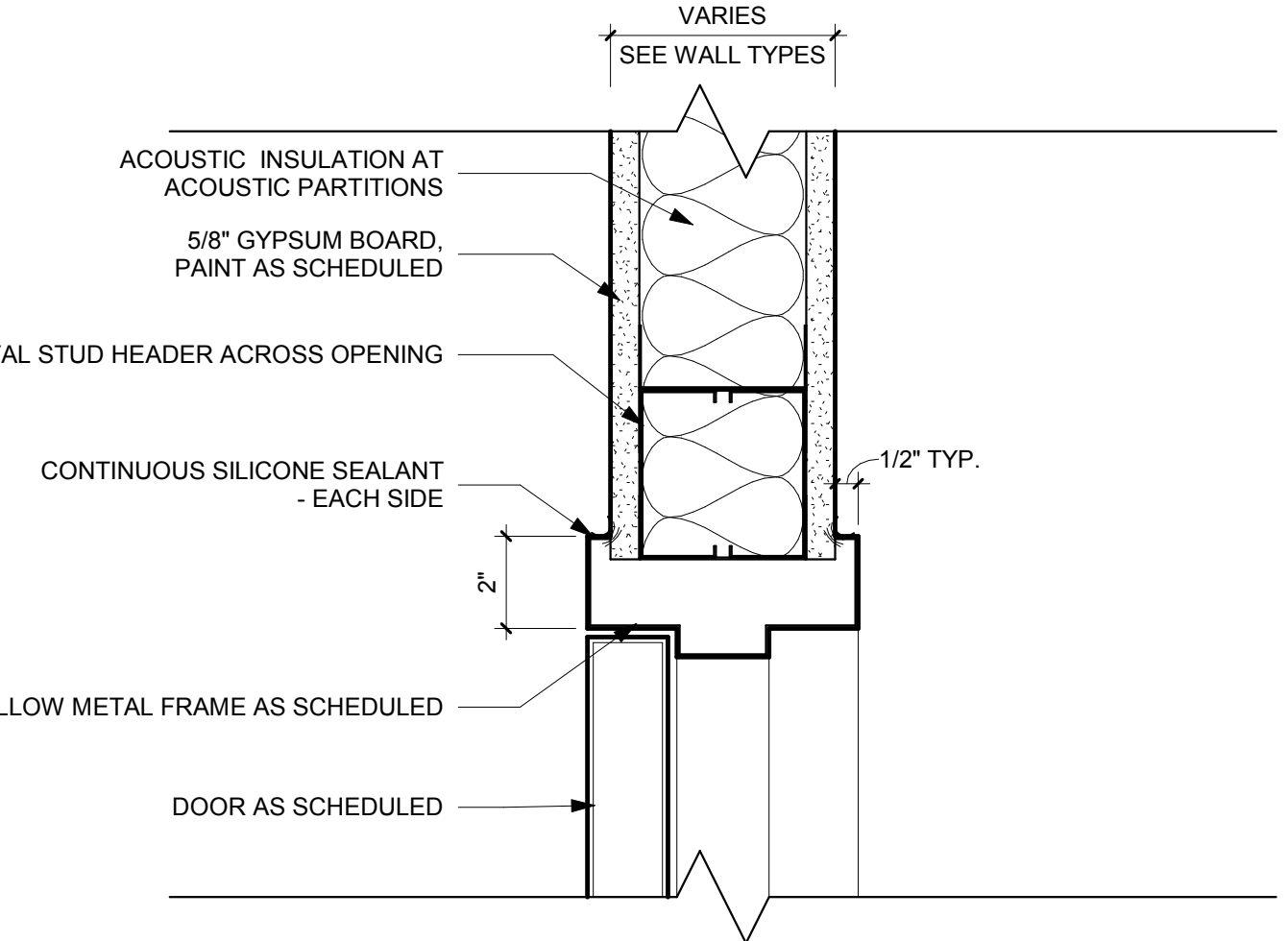
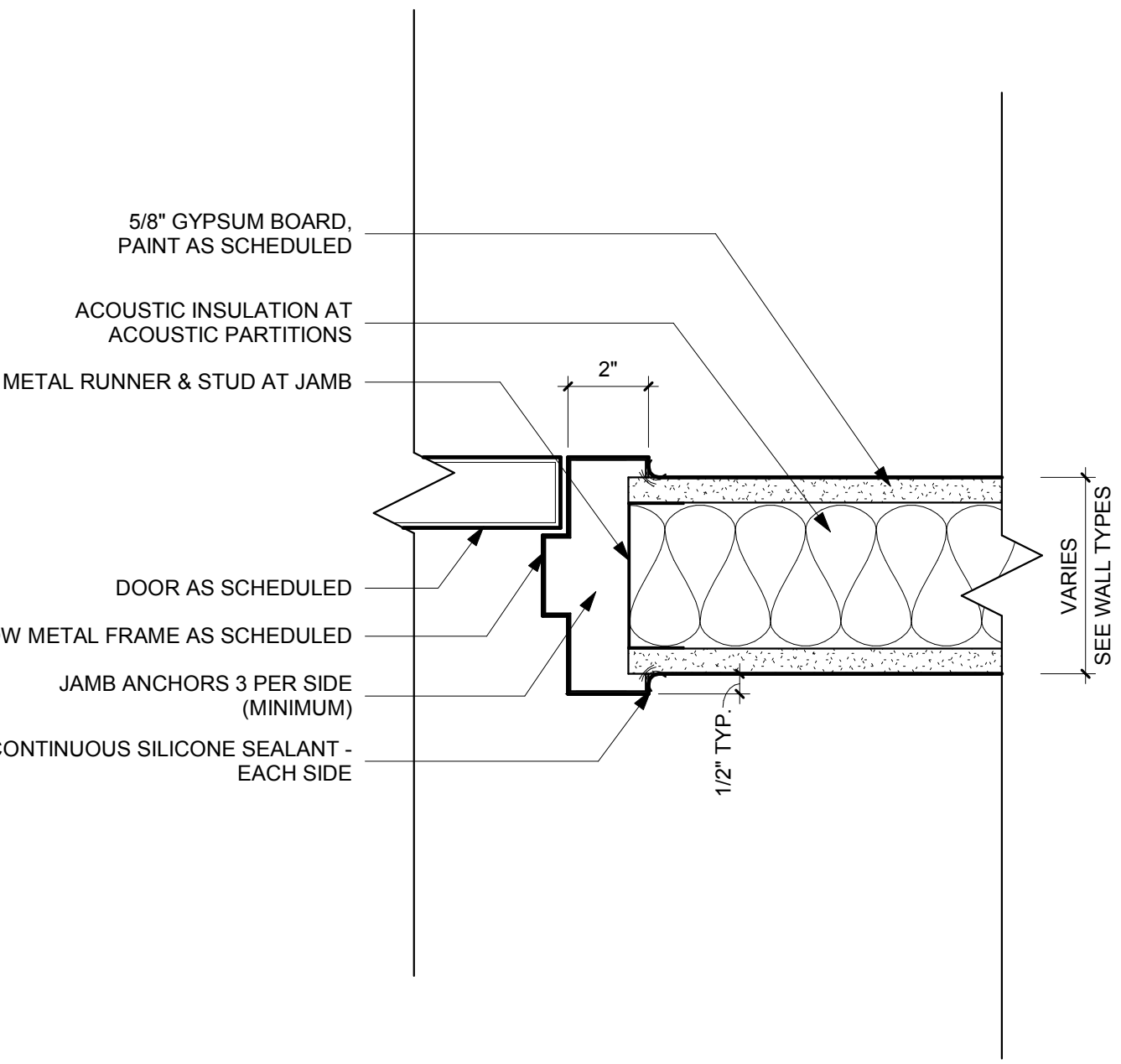


2 DOOR PANEL TYPES

1 DOOR FRAME ELEVATIONS

3 TYPICAL H.M. FRAME JAMB
3" = 1'-0"

4 TYPICAL H.M. FRAME HEAD
3" = 1'-0"



DOOR SCHEDULE NOTES

- SEE FRAME PLANS AND INTERIOR ELEVATIONS FOR DIMENSIONAL SIZES WITH MATERIALS OF FRAMES.
- PREPARE DOOR AND FRAME FOR PAINT - BOND DENTS AND SAND SCRATCHES SMOOTH.
- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO MANUFACTURING. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING.
- REFER TO INTERIOR FINISH SPECIFICATION ON A600 AND GLAZING SPECIFICATION FOR GLASS TYPE INFORMATION.



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Key Plan

Revision Date

City Contract No.
7662

OPN Project No.
17609000

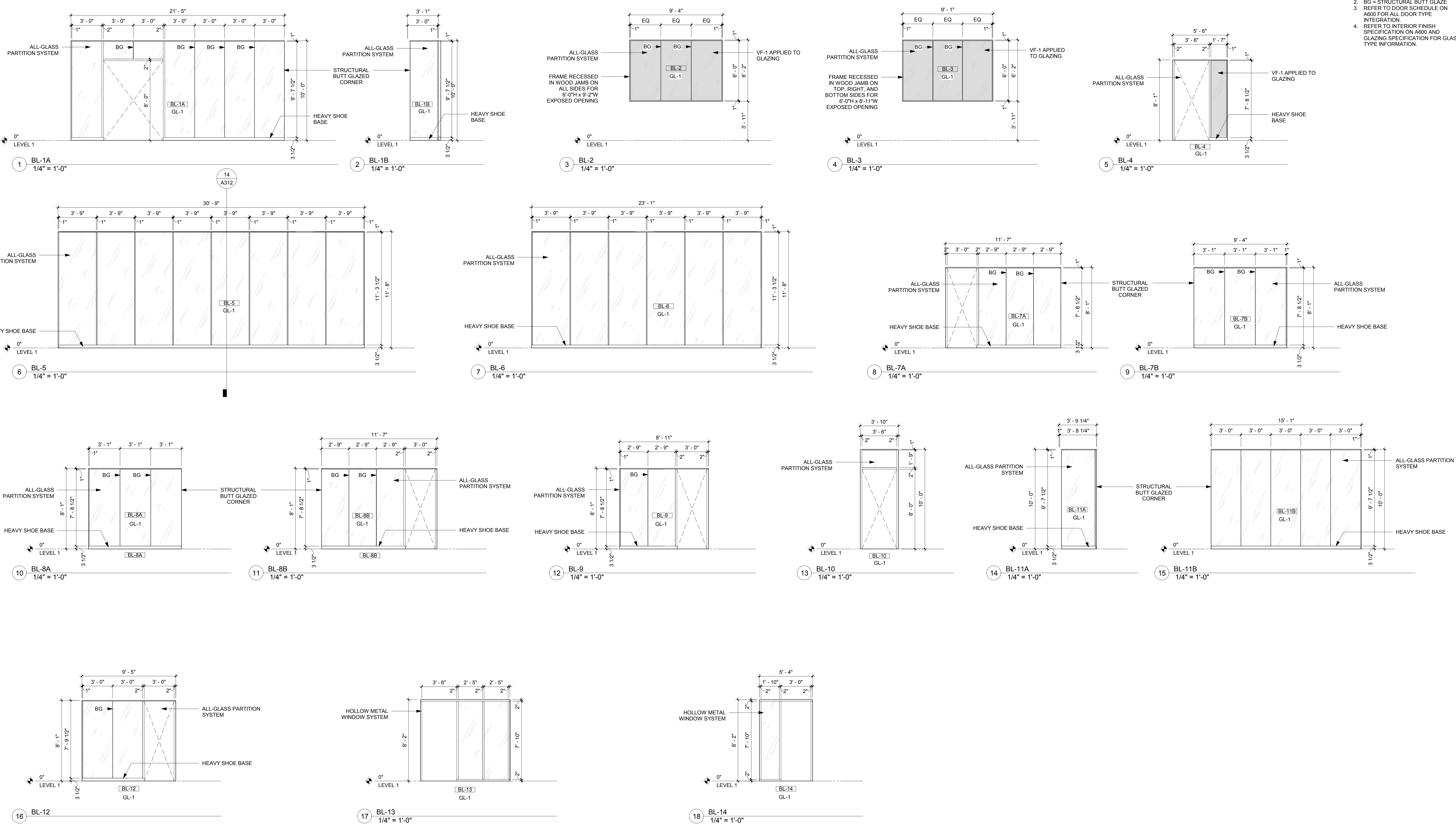
Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
DOOR SCHEDULE AND ELEVATIONS

Sheet Number

A601

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GENERAL NOTES

1. AVANTI SOLARE FRAMELESS GLAZING SYSTEM BASIS OF DESIGN FOR ALL ALUMINUM GLAZING PARTITIONS
2. BG = STRUCTURAL BUTT GLAZE REFER TO DOOR SCHEDULE ON ADD FOR ALL DOOR TYPE INTEGRATION.
3. REFER TO INTERIOR FINISH SPECIFICATION ON A600 AND GLAZING SPECIFICATION FOR GLASS TYPE INFORMATION.

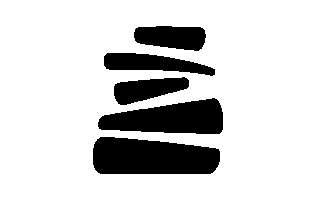
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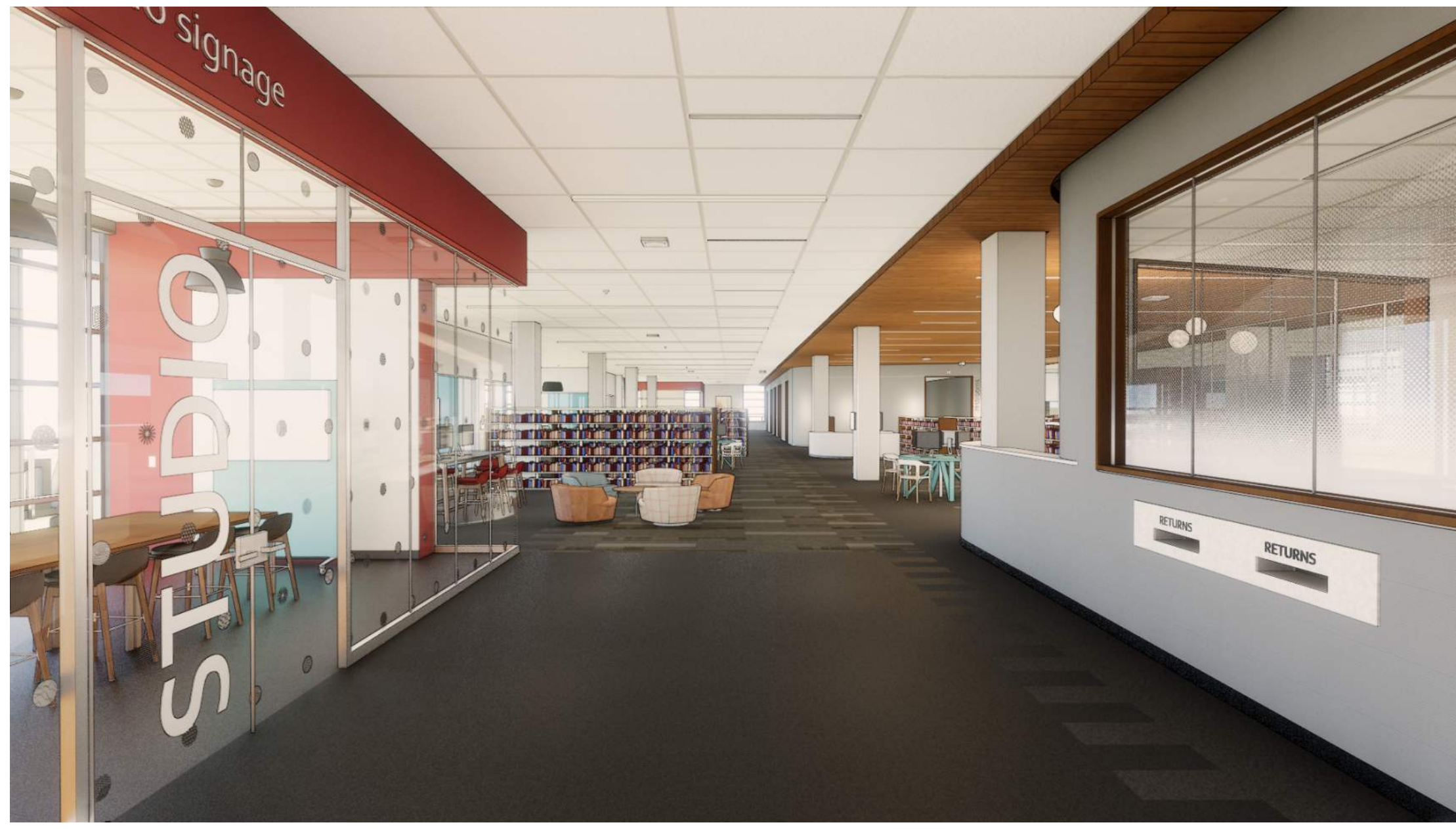
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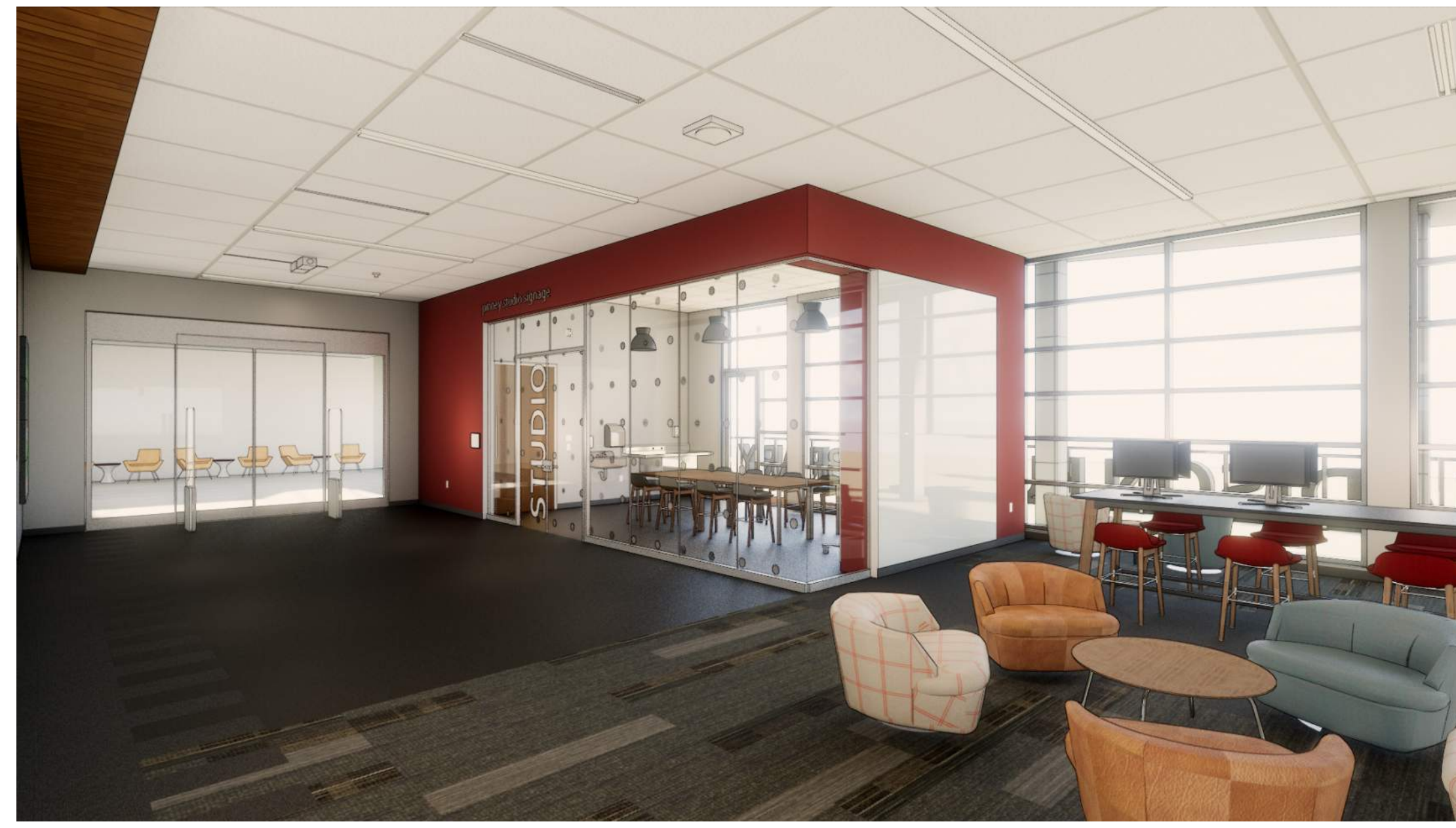
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BID DOCUMENTS 11/30/2018

Sheet Name
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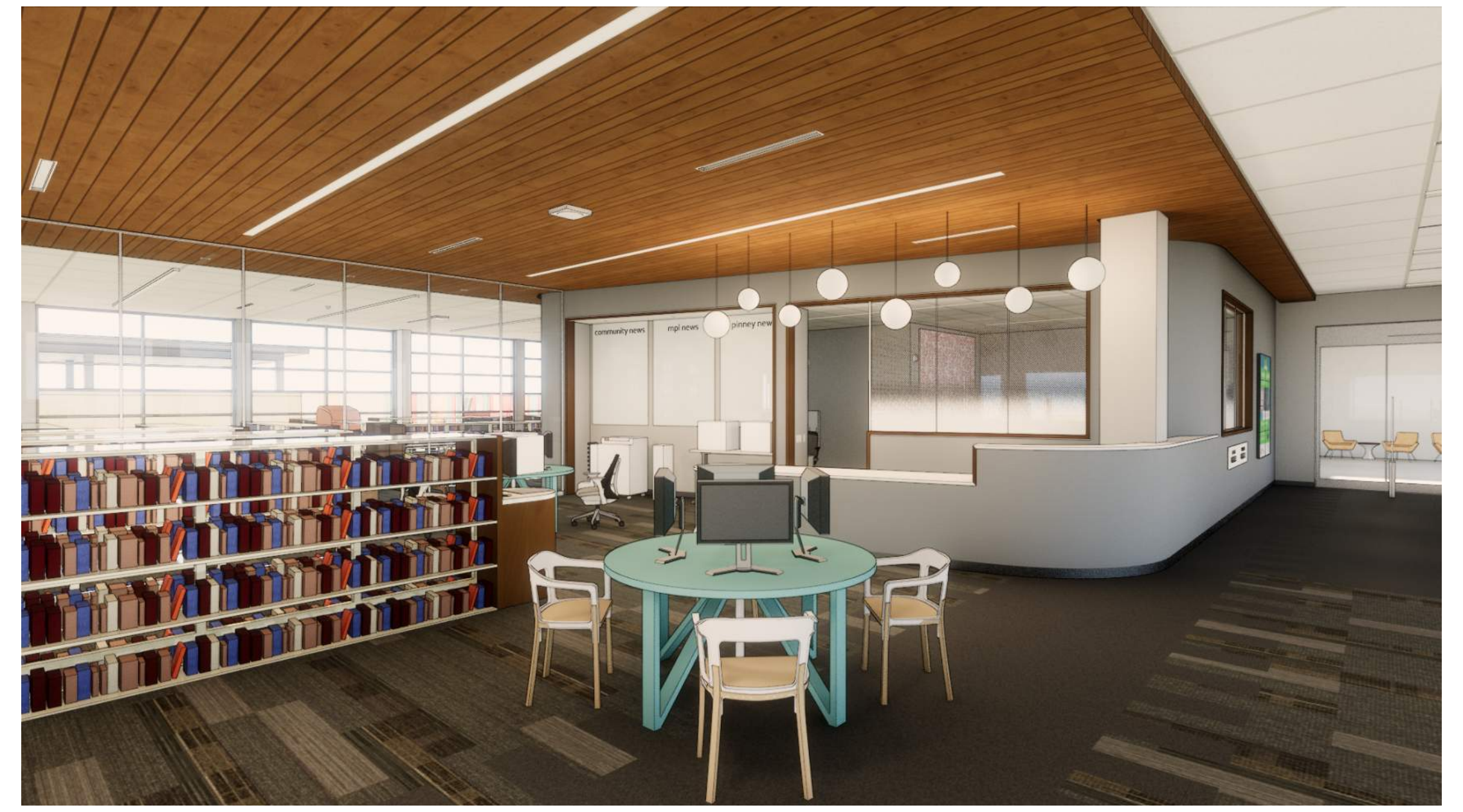
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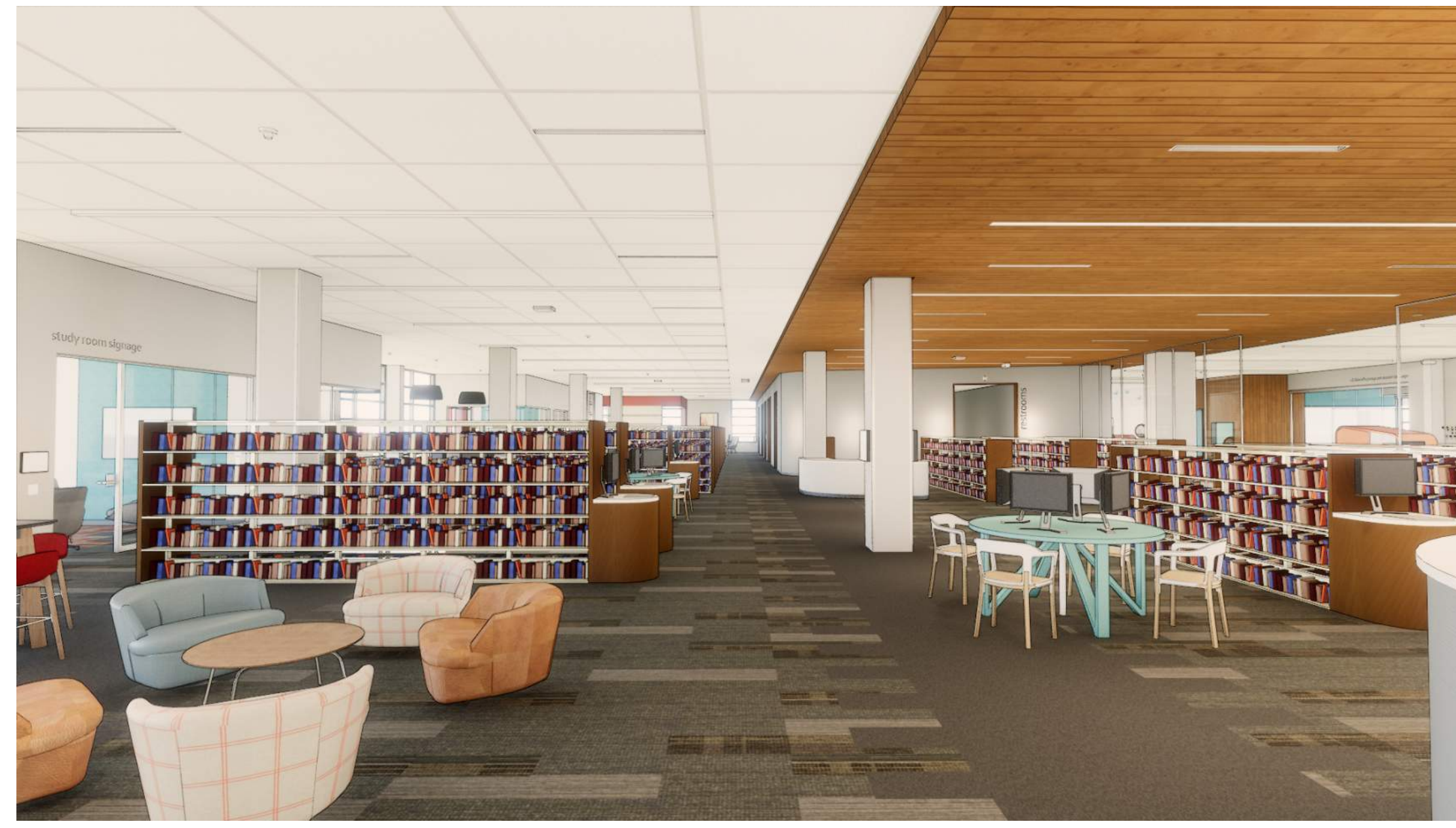
PINNEY STUDIO



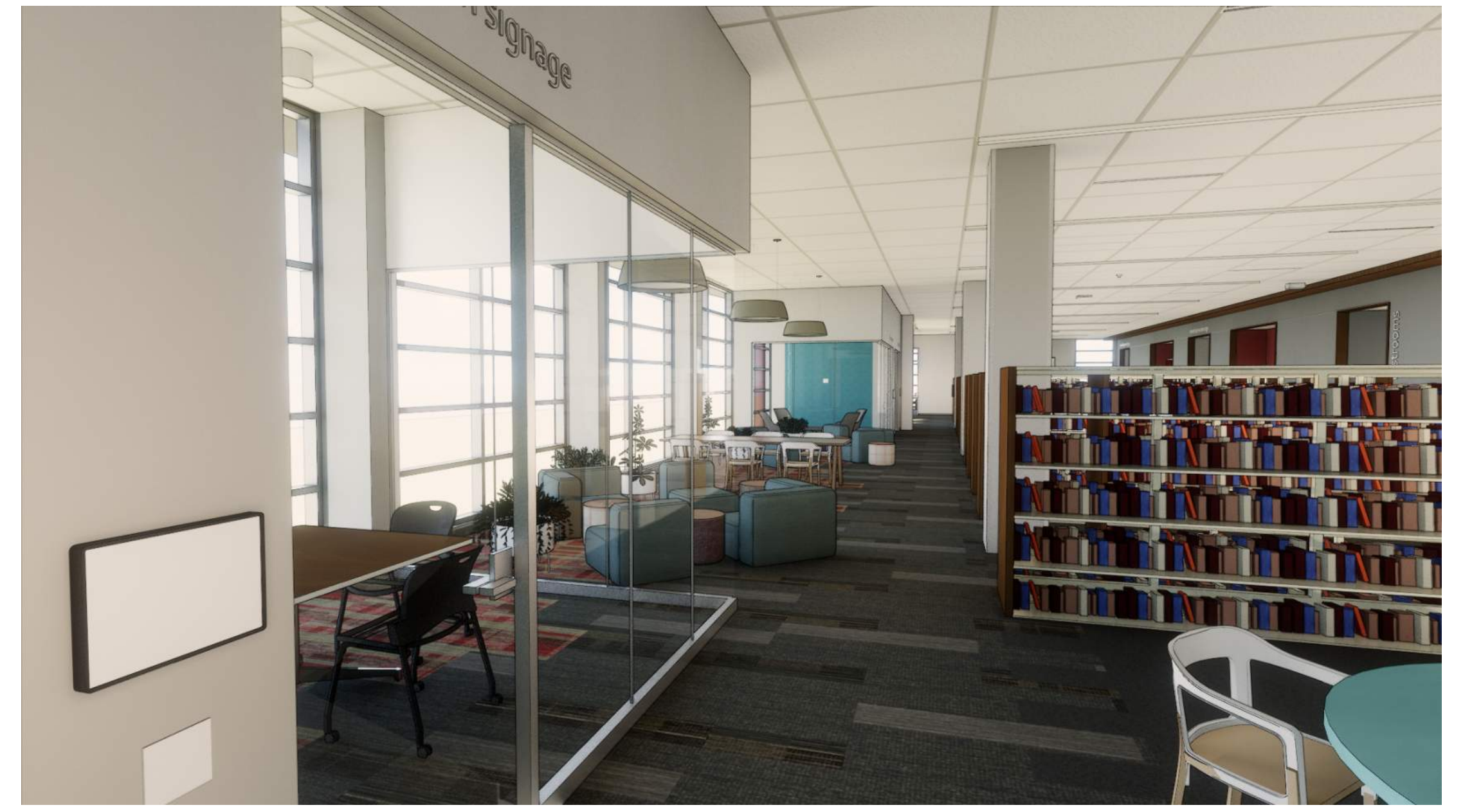
CIRCULATION DESK AND HOLDS



CIRCULATION, HOLDS, AND MEDIA



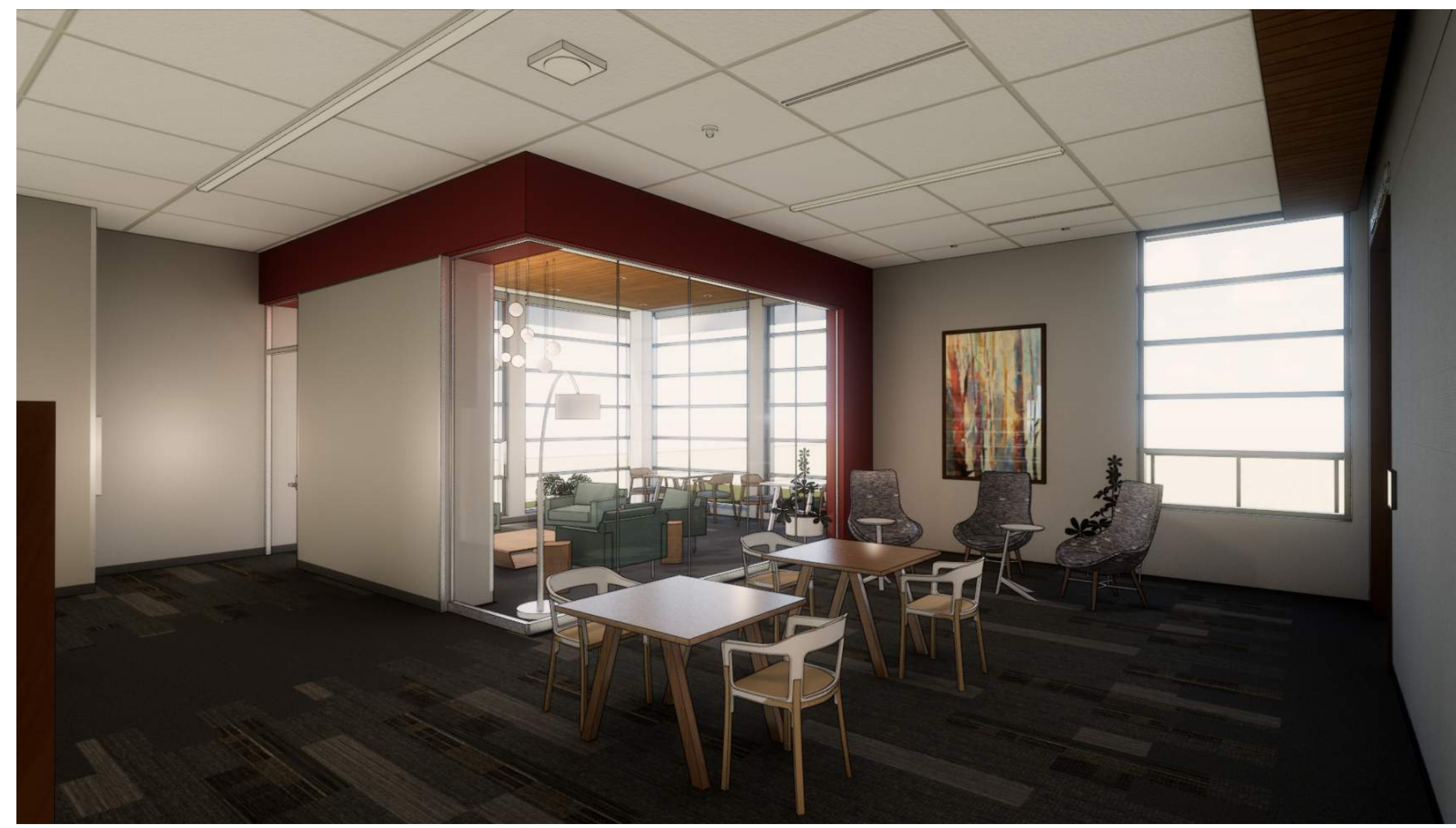
ADULT COLLECTION



STUDY ROOMS



READING/STUDY AREA



READING ROOM



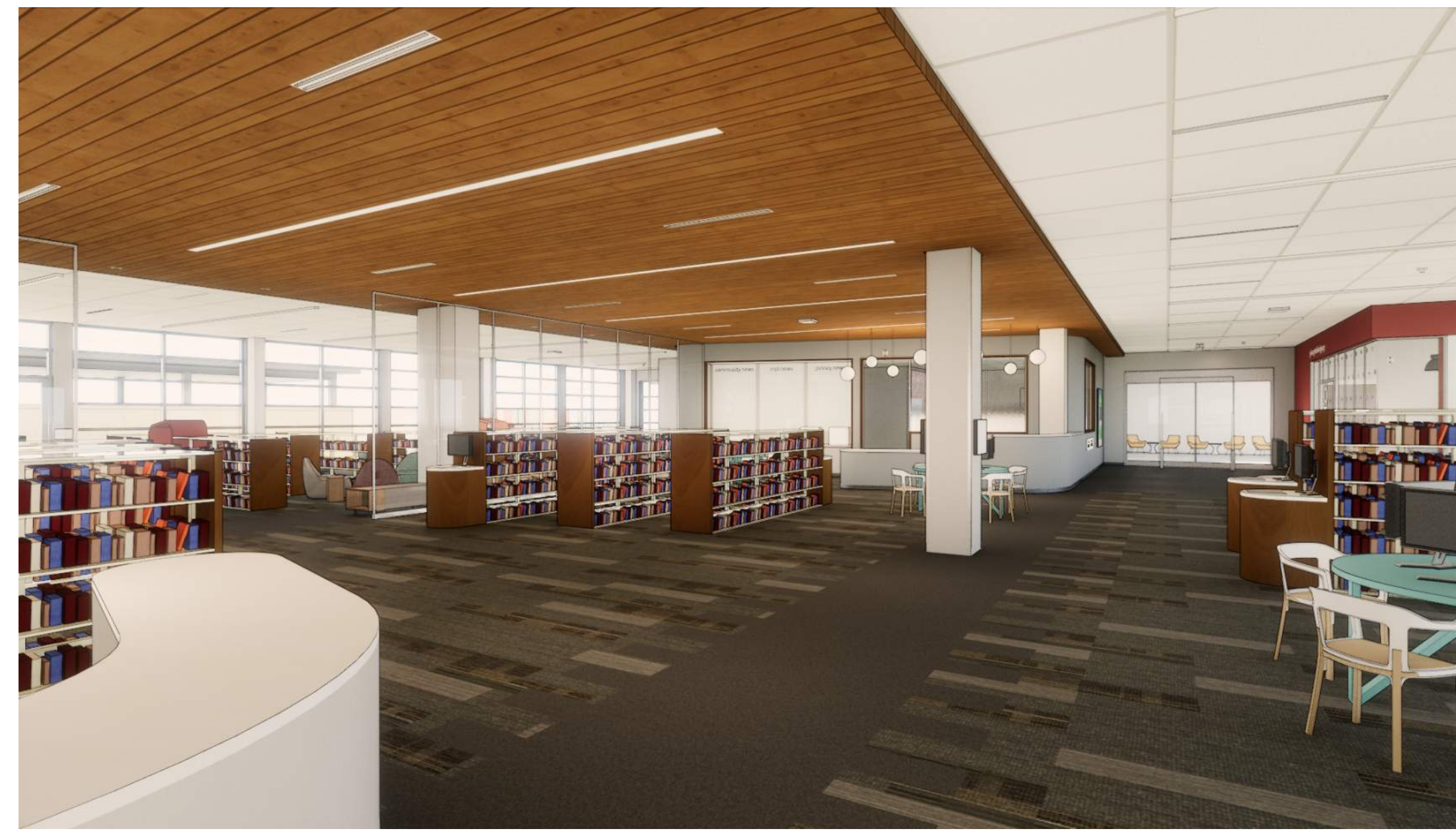
READING ROOM

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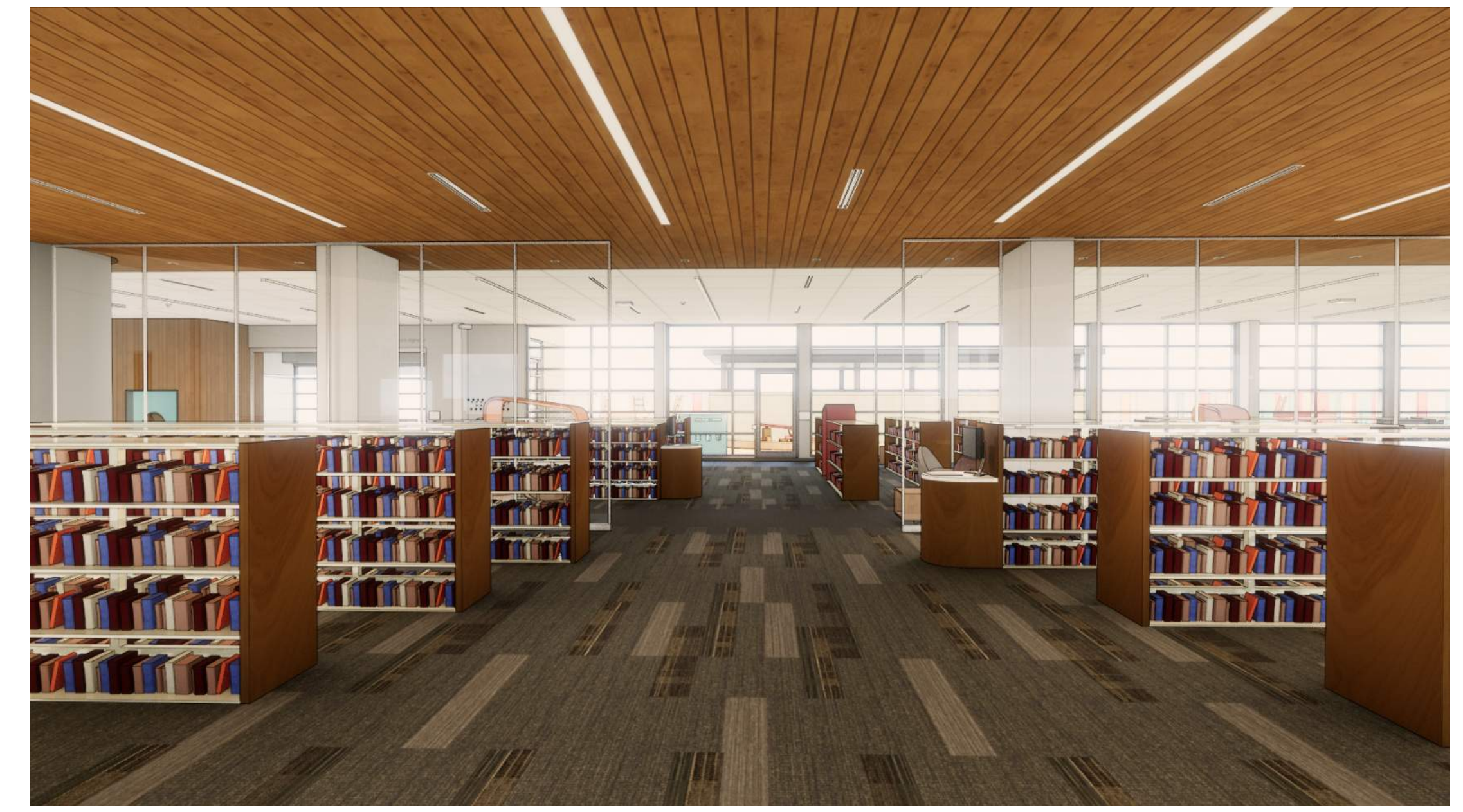




COMMUNITY ROOM



EAST VIEW FROM REFERENCE DESK



CHILDREN'S COLLECTION ENTRY



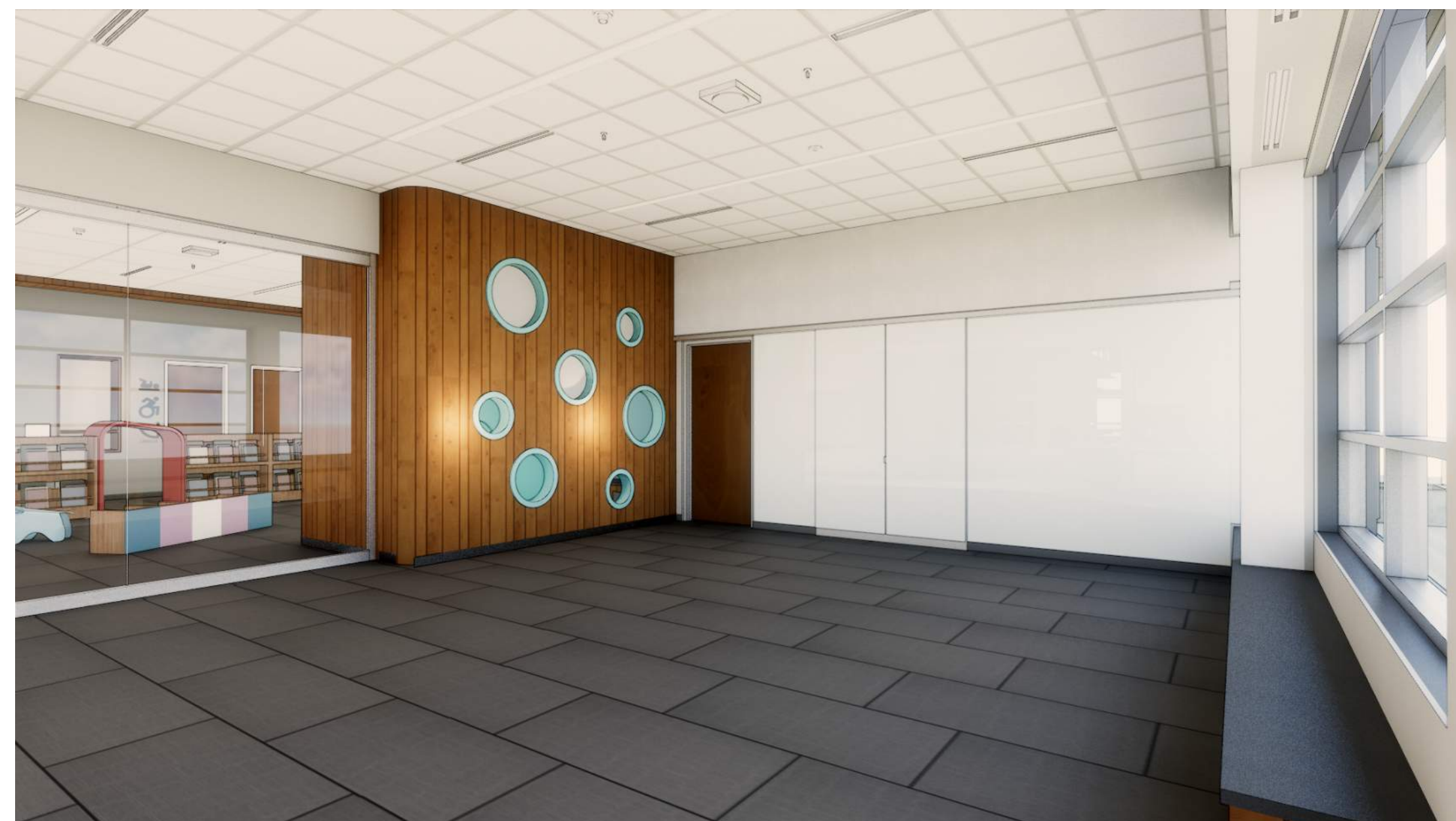
CHILDREN'S COLLECTION FROM PLAYLAB



PLAYLAB



PLAYLAB



CHILDREN'S PROGRAM ROOM



GARDEN/ TERRACE

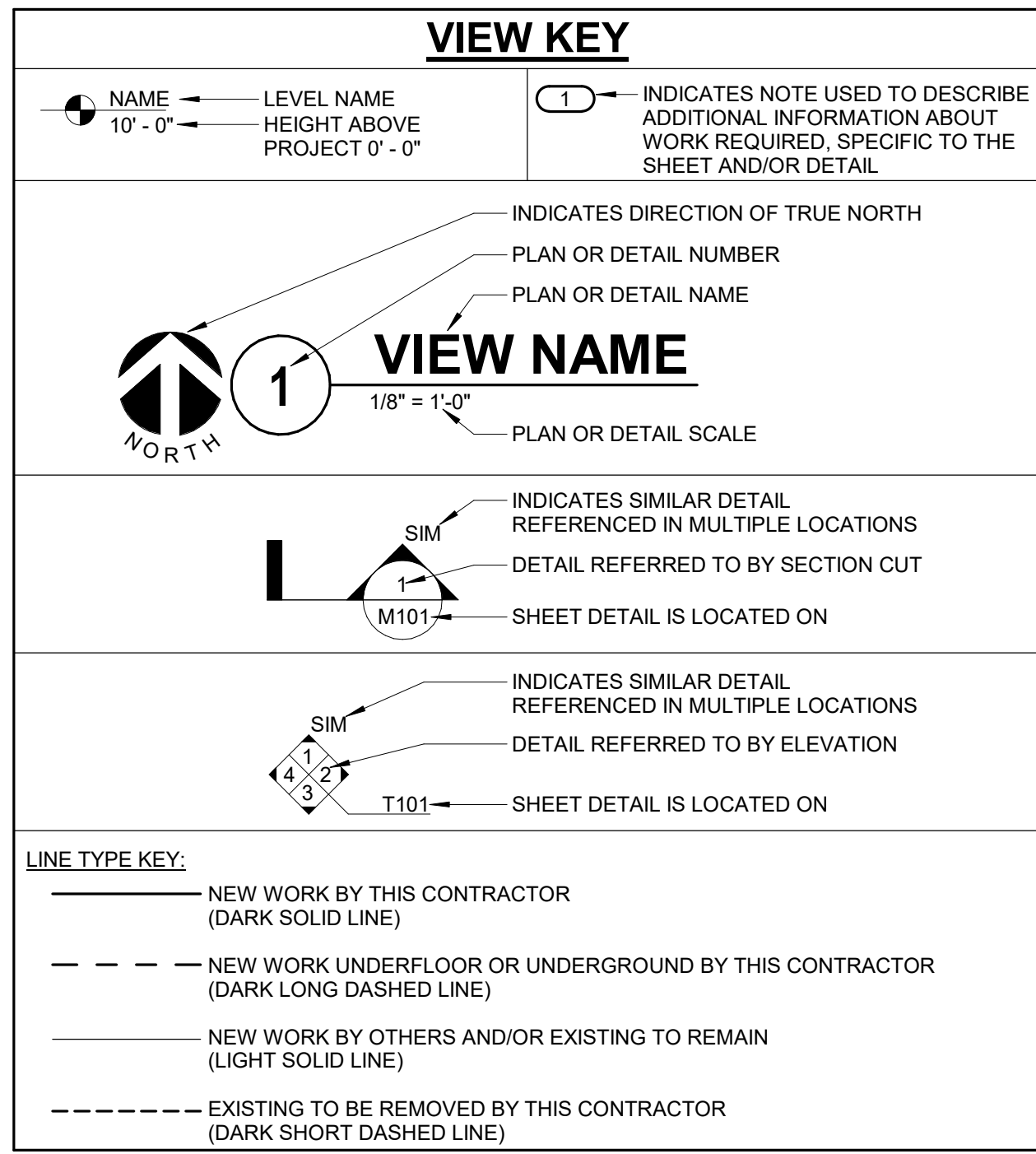


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FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 05/29/2018.

1 HOUR FIRE BARRIER	---
2 HOUR FIRE BARRIER	----

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIOVISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—DPP—	DRAIN
—GWR—	GLYCOL WATER RETURN
—GWS—	GLYCOL WATER SUPPLY
—HG—	REFRIGERANT HOT GAS
—LQ—	REFRIGERANT LIQUID
—PC—	PUMPED CONDENSATE
—SUC—	REFRIGERANT SUCTION
—SV—	SAFETY RELIEF VENT
—P—	PIPE CAP
—D—	PIPE DOWN
—U—	PIPE UP OR UP/DOWN
—P—	PITCH PIPE IN DIRECTION
—	DIRECTION OF FLOW IN PIPE
—	NEW CONNECTION
—	DIELECTRIC CONNECTION
—	UNION/FLANGE
—	SHUTOFF VALVE NORMALLY OPEN
—	SHUTOFF VALVE NORMALLY CLOSED
—	THROTTLING VALVE
—	BALANCING VALVE (NUMBER INDICATES GPM)
—	AUTOMATIC BALANCING VALVE
—	MIXING VALVE
—	CONTROL VALVE (THREE-WAY)
—	CONTROL VALVE (TWO-WAY)
—	SOLENOID VALVE
—	CHECK VALVE
—	SAFETY/RELIEF VALVE
—	PRESSURE REDUCING VALVE (LIQUID/GAS)
—	TRIPLE DUTY VALVE (ANGLE TYPE)
—	TRIPLE DUTY VALVE (IN-LINE TYPE)
—	PUMP
—	VACUUM BREAKER
—	"WYE" - STRAINER
—	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
—	BASKET STRAINER
—	FLEXIBLE CONNECTION
—	PRESSURE/TEMPERATURE TEST PLUG
—	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
—	SUCTION DIFFUSER WITH SUPPORT FOOT
—	AUTOMATIC AIR VENT
—	MANUAL AIR VENT
—	DRAIN VALVE WITH HOSE CONNECTION AND CAP
—	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
—	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
—	DIFFERENTIAL PRESSURE SENSOR
—	STATIC SWITCH
—	FLOW METER
—	FLOW SWITCH
—	FLOW SENSOR
—	ALIGNMENT GUIDE
—	PIPE ANCHOR
—	EXPANSION JOINT
—	METER

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—	DIRECTION OF AIR FLOW
—	FLEXIBLE DUCT
—	MANUAL VOLUME DAMPER
—	RISE IN DIRECTION OF AIR FLOW
—	DROP IN DIRECTION OF AIR FLOW
—	DUCT CAP
—	DUCT DOWN
—	DUCT UP
—	SUPPLY/OUTSIDE AIR DUCT SECTION
—	RETURN AIR DUCT SECTION
—	EXHAUST/RELIEF AIR DUCT SECTION
—	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
—	AIR TERMINAL PROPERTIES: SYMBOL, NECK SIZE/CFM
—	TERMINAL AIR BOX (REFER TO SCHEDULE)
—	PARALLEL FAN POWERED TERMINAL AIR BOX W/REHEAT COIL (REFER TO SCHEDULE)
—	HUMIDIFIER
—	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
—	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
—	DIFFERENTIAL PRESSURE SENSOR
—	HUMIDISTAT SENSOR
—	HUMIDISTAT / SENSOR
—	CARBON DIOXIDE SENSOR
—	OCCUPANCY SENSOR
—	PRESSURE SENSOR/MONITOR
—	PRESSURE SENSOR (DUCT MOUNTED)
—	THERMOSTAT/SENSOR
—	TEMPERATURE SENSOR
—	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
—	TEMPERATURE SENSOR WITH WELL
—	THERMOMETER WITH WELL, (DIAL TYPE)
—	THERMOMETER WITH WELL, (FILLED TYPE)
—	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CD-E	CEILING DIFFUSER - EXISTING
CFSD	CONTROL/FIRE/SMOKE DAMPER
DPG (0-2)	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EFD	EXISTING FIRE DAMPER
EFSO	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ESD	EXISTING SMOKE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
MV	MIXING VALVE
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UNO	UNLESS NOTED OTHERWISE

GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC., ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN MINIMUM 3'-0" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
- THERE ARE SIGNIFICANT DIFFERENCES BETWEEN THE VRF SYSTEM MANUFACTURERS. THE MECHANICAL CONTRACTOR SHALL CONFIRM WITH THE MANUFACTURERS REPRESENTATIVES INCLUDE THE PRECISE QUANTITY AND SIZES OF ALL EQUIPMENT COMPONENTS, REFRIGERANT PIPING, CONDENSATE PIPING, ELECTRICAL CONNECTIONS, CONTROLS, ETC. NECESSARY TO MAKE THE SYSTEM FULLY OPERATIONAL AND MAINTAIN ZONING CONTROL AS INDICATED ON DOCUMENTS PRIOR TO BID. THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH IN HIS BID, INCLUDING ANY REQUIREMENTS OVER AND ABOVE THAT INCLUDE IN THE CONTRACT DOCUMENTS.

PIPING GENERAL NOTES:

- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
- INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

VENTILATION GENERAL NOTES:

- THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE TAB'S INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH SHOULD BE INCREASED ONE DUCT SIZE, OR AS NOTED OTHERWISE.
- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

MECHANICAL SHEET INDEX

M000	MECHANICAL COVER SHEET
M001	SITE PLAN - PHASE 1 - MECHANICAL
M002	SITE PLAN - PHASE 2 - MECHANICAL
M100	LEVEL 0 FLOOR PLAN - VENTILATION
M101	LEVEL 1 UNDER RAISED FLOOR PLAN - MECHANICAL
M102	LEVEL 1 FLOOR PLAN - VENTILATION
M200	LEVEL 0 FLOOR PLAN - PIPING
M201	LEVEL 1 FLOOR PLAN - PIPING
M300	ENLARGED PLANS AND SECTIONS - MECHANICAL
M301	ENLARGED PLANS AND SECTIONS - MECHANICAL
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M500	MECHANICAL DIAGRAMS
M501	MECHANICAL DIAGRAMS
M550	CONTROL DIAGRAMS - MECHANICAL
M551	CONTROL DIAGRAMS - MECHANICAL
M552	CONTROL DIAGRAMS - MECHANICAL
M600	MECHANICAL SCHEDULES



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Revision Date

City Contract No.

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OPN Project No.

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Sheet Issue Date

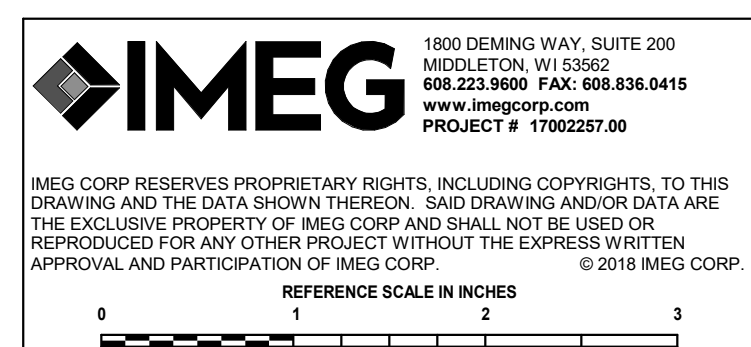
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Sheet Name

MECHANICAL COVER SHEET

Sheet Number

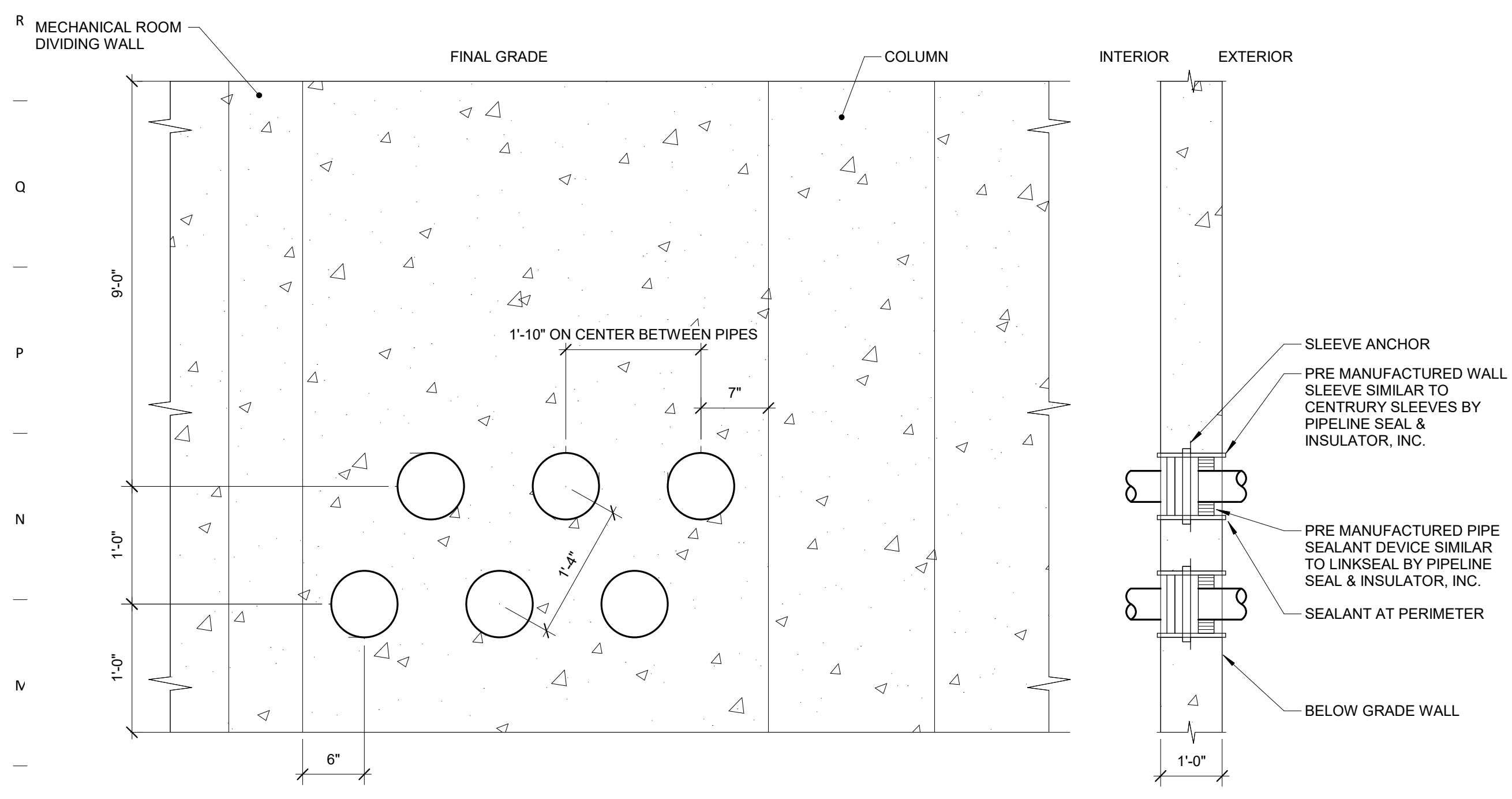
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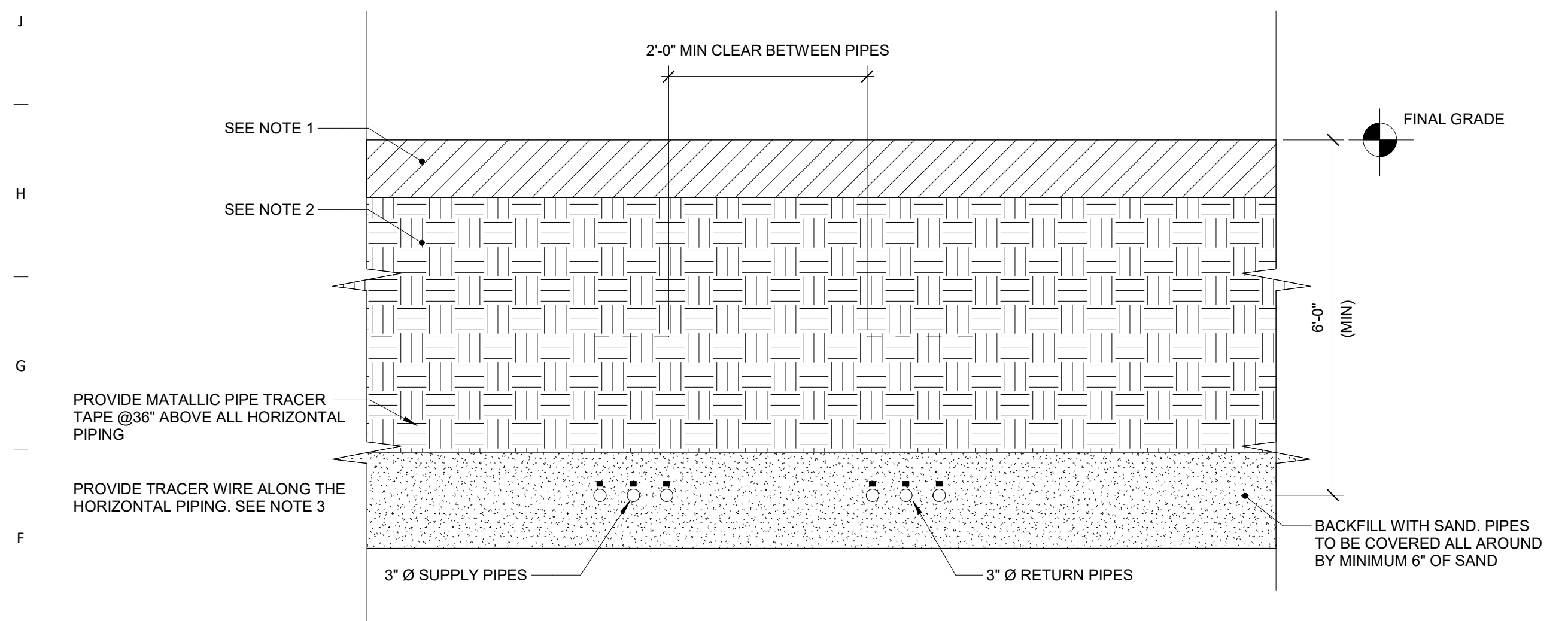
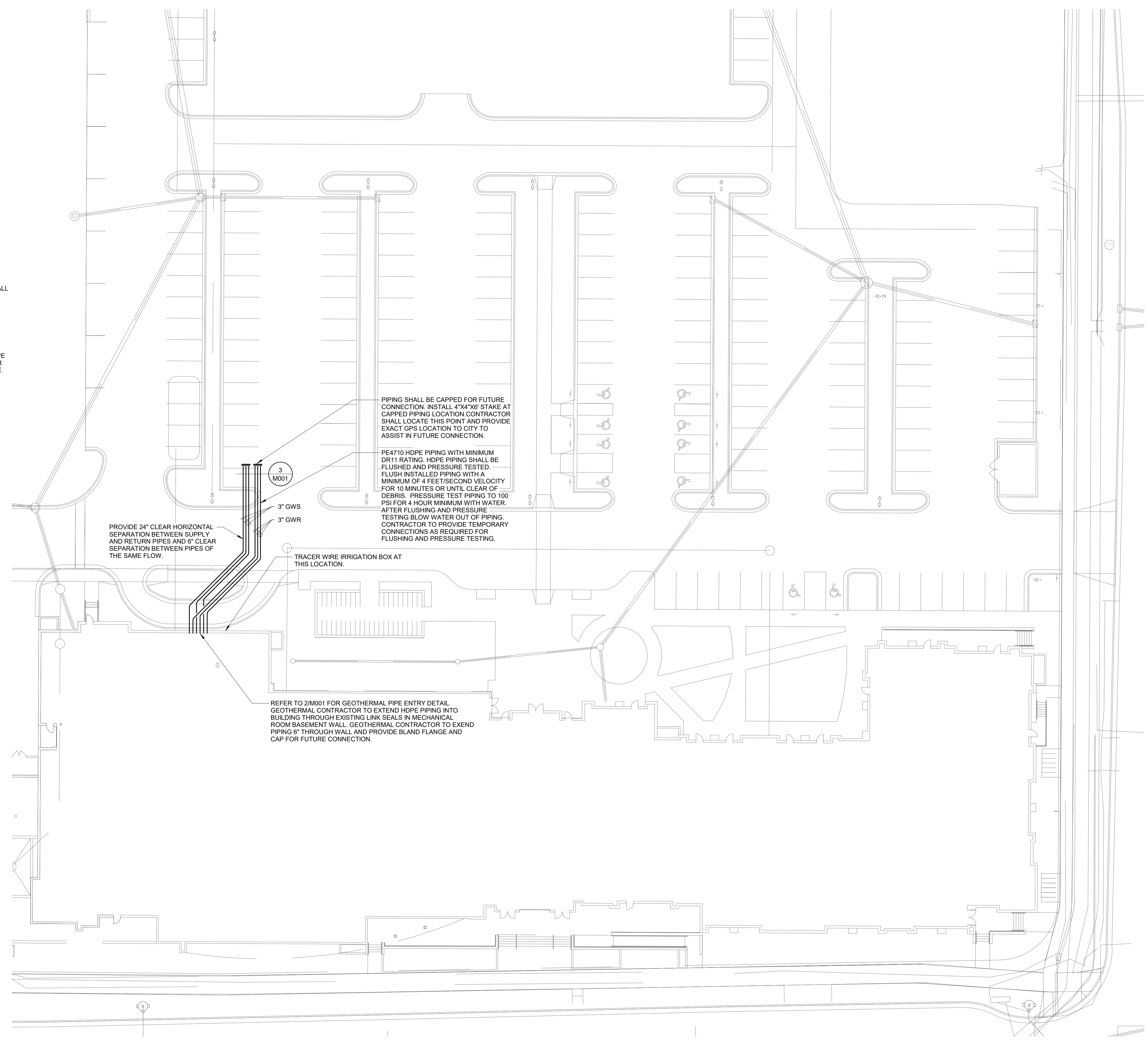
GENERAL NOTES:
 1. ALL EXTERIOR GWS/GWR PIPING SHALL HAVE AT LEAST 6'-0" OF COVER.

MECHANICAL SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	GLYCOL WATER RETURN
	GLYCOL WATER SUPPLY
	PIPE CAP



2 GEOTHERMAL PIPE ENTRY DETAIL (FOR REFERENCE ONLY)
 NO SCALE

- NOTES:
 1. LINK SEAL: LS-300-S-316
 2. SLEEVE: CS-5-12
 3. LINK SEALS AND SLEEVES ARE EXISTING THAT WERE INSTALLED BY DEVELOPER.



3 GEO PIPE MAIN CIRCUIT TRENCH DETAIL
 NO SCALE

- NOTES:
 1. COORDINATE FINAL GRADE WITH DEVELOPER. PAVEMENT PER DEVELOPERS REQUIREMENTS.
 2. BACKFILL WITH STRUCTURAL FILL TO ROUGH GRADE FOR ALL AREAS PER DEVELOPERS REQUIREMENTS. COMPACT TO 95%.
 3. TRACER WIRE TO BE TERMINATED AT ABOVE. FINAL GRADE ACCESSIBLE LOCATION NEAR PIPE ENTRY POINT. BURIED IRRIGATION BOX OR EQUIVALENT. COORDINATE WITH DEVELOPER REQUIREMENTS.

1 SITE PLAN - PHASE 1 - MECHANICAL
 1" = 20'-0"

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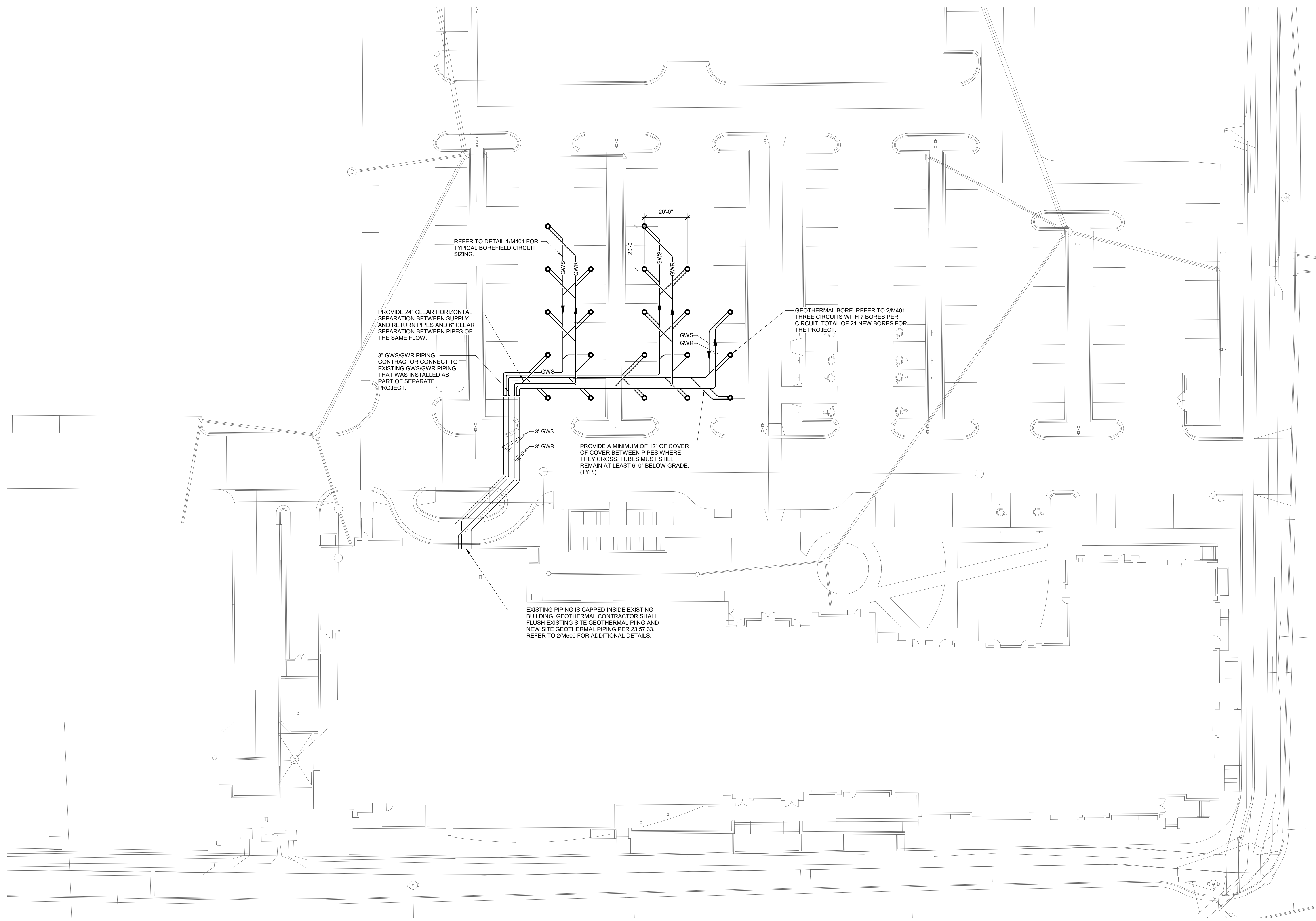
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GENERAL NOTES:
1. ALL EXTERIOR GWS/GWR PIPING SHALL HAVE AT LEAST 6'-0" OF COVER.

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1 SITE PLAN - PHASE 2 - MECHANICAL
1" = 20'-0"

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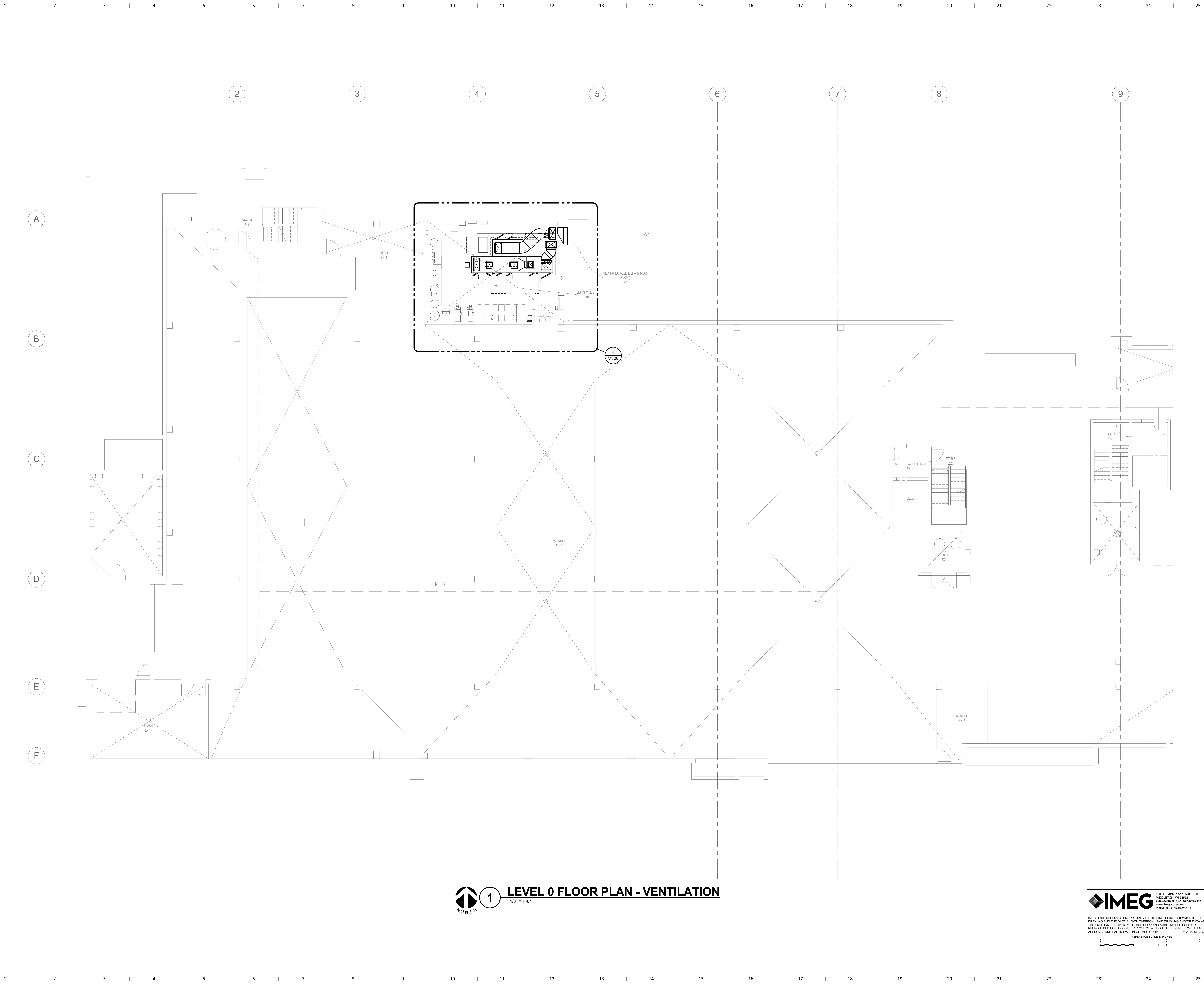
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Sheet Name
SITE PLAN - PHASE 2 - MECHANICAL

Sheet Number
M002

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1 LEVEL 0 FLOOR PLAN - VENTILATION
1/8" = 1'-0"

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Sheet Name
LEVEL 0 FLOOR PLAN - VENTILATION

Sheet Number
M100

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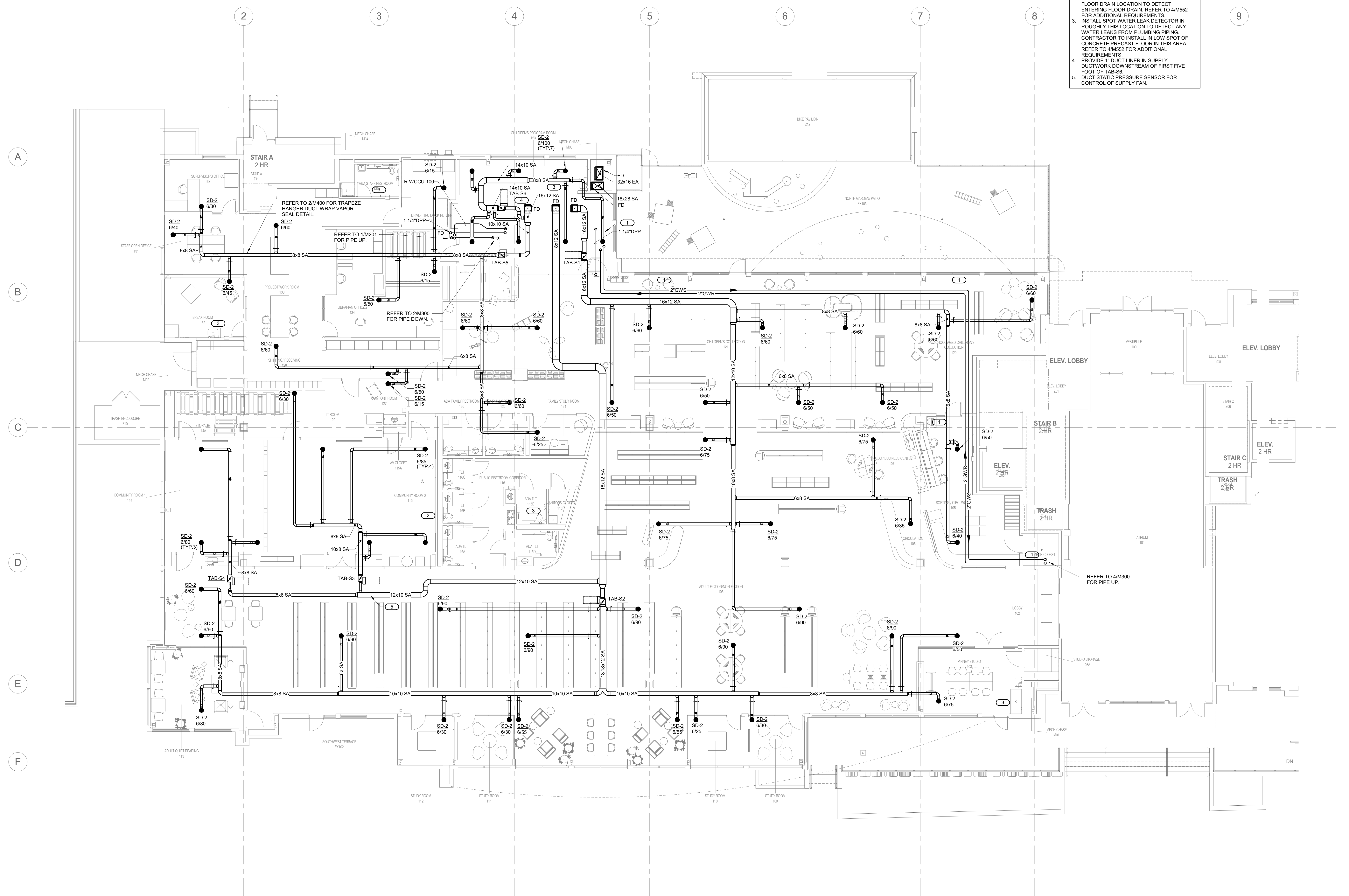
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Sheet Name
LEVEL 1 UNDER RAISED FLOOR PLAN - MECHANICAL

Sheet Number
M101

- KEYNOTES:**
1. INSTALL SPOT WATER LEAK DETECTOR IN ROUGHLY THIS LOCATION TO DETECT WATER LEAKS IN GLYCOL WATER PIPING WITHIN RAISED FLOOR SYSTEM. CONTRACTOR TO INSTALL IN LOW SPOT OF CONCRETE PRECAST FLOOR UNDER GWS/GWR PIPING. REFER TO 4/M552 FOR ADDITIONAL REQUIREMENTS.
 2. INSTALL SPOT WATER LEAK DETECTOR AT FLOOR DRAIN LOCATION TO DETECT ENTERING FLOOR DRAIN. REFER TO 4/M552 FOR ADDITIONAL REQUIREMENTS.
 3. INSTALL SPOT WATER LEAK DETECTOR IN ROUGHLY THIS LOCATION TO DETECT ANY WATER LEAKS FROM PLUMBING PIPING. CONTRACTOR TO INSTALL IN LOW SPOT OF CONCRETE PRECAST FLOOR IN THIS AREA. REFER TO 4/M552 FOR ADDITIONAL REQUIREMENTS.
 4. PROVIDE 1" DUCT LINER IN SUPPLY DUCTWORK DOWNSTREAM OF FIRST FIVE FOOT OF TAB-S6.
 5. DUCT STATIC PRESSURE SENSOR FOR CONTROL OF SUPPLY FAN.

- GENERAL NOTES:**
1. ALL DUCTWORK AND PIPING SHOWN ON THIS FLOOR PLAN IS ROUTED IN THE RAISED FLOOR PLENUM. SUPPORT DUCTS AND PIPING FROM FLOOR SLAB AND ROUTE WITHIN CLEAR SPACE OF RAISED FLOOR SYSTEM. COORDINATE CLEARANCES WITH RAISED FLOOR SYSTEM MANUFACTURER.



1 LEVEL 1 UNDER RAISED FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

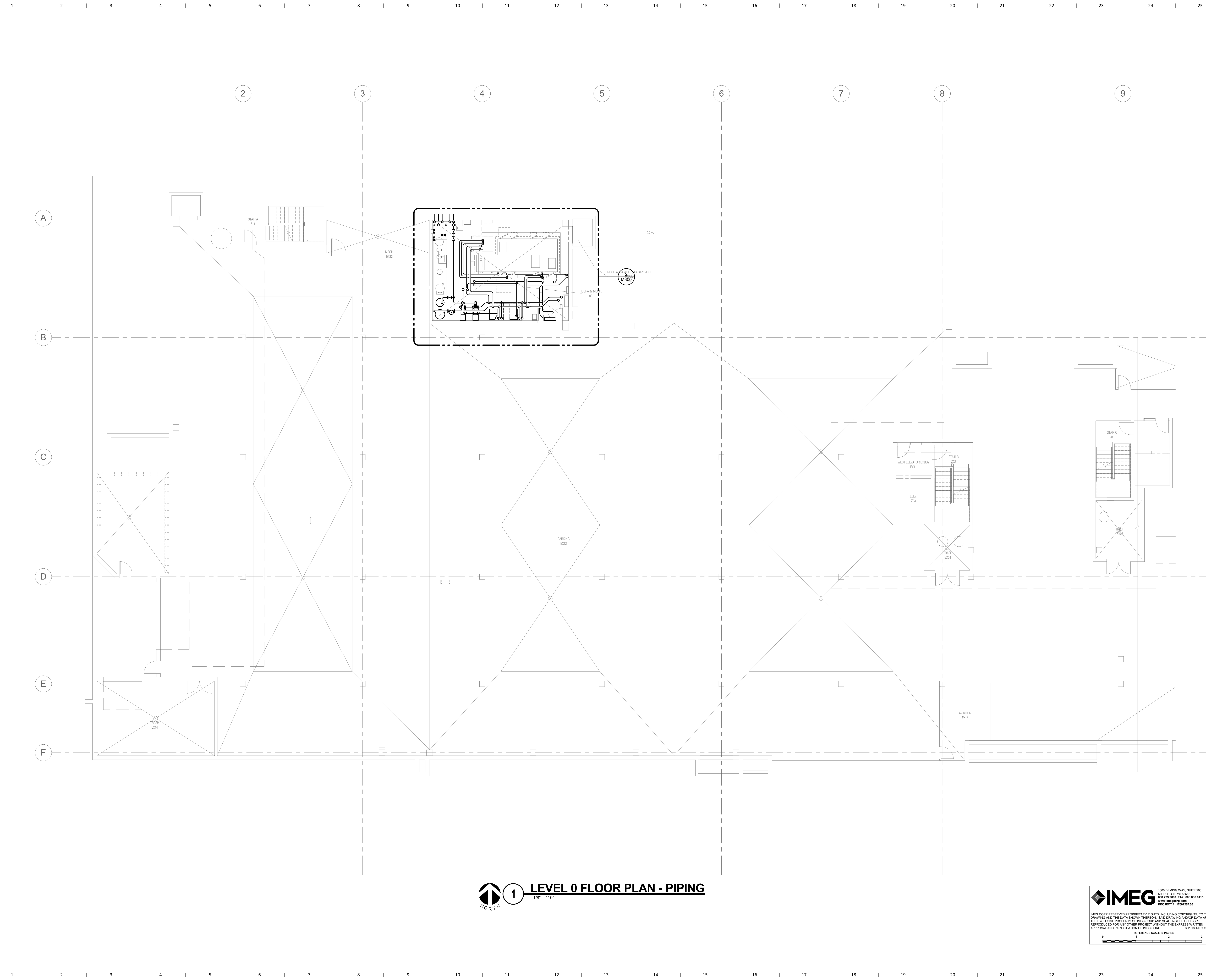
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1 LEVEL 0 FLOOR PLAN - PIPING
1/8" = 1'-0"

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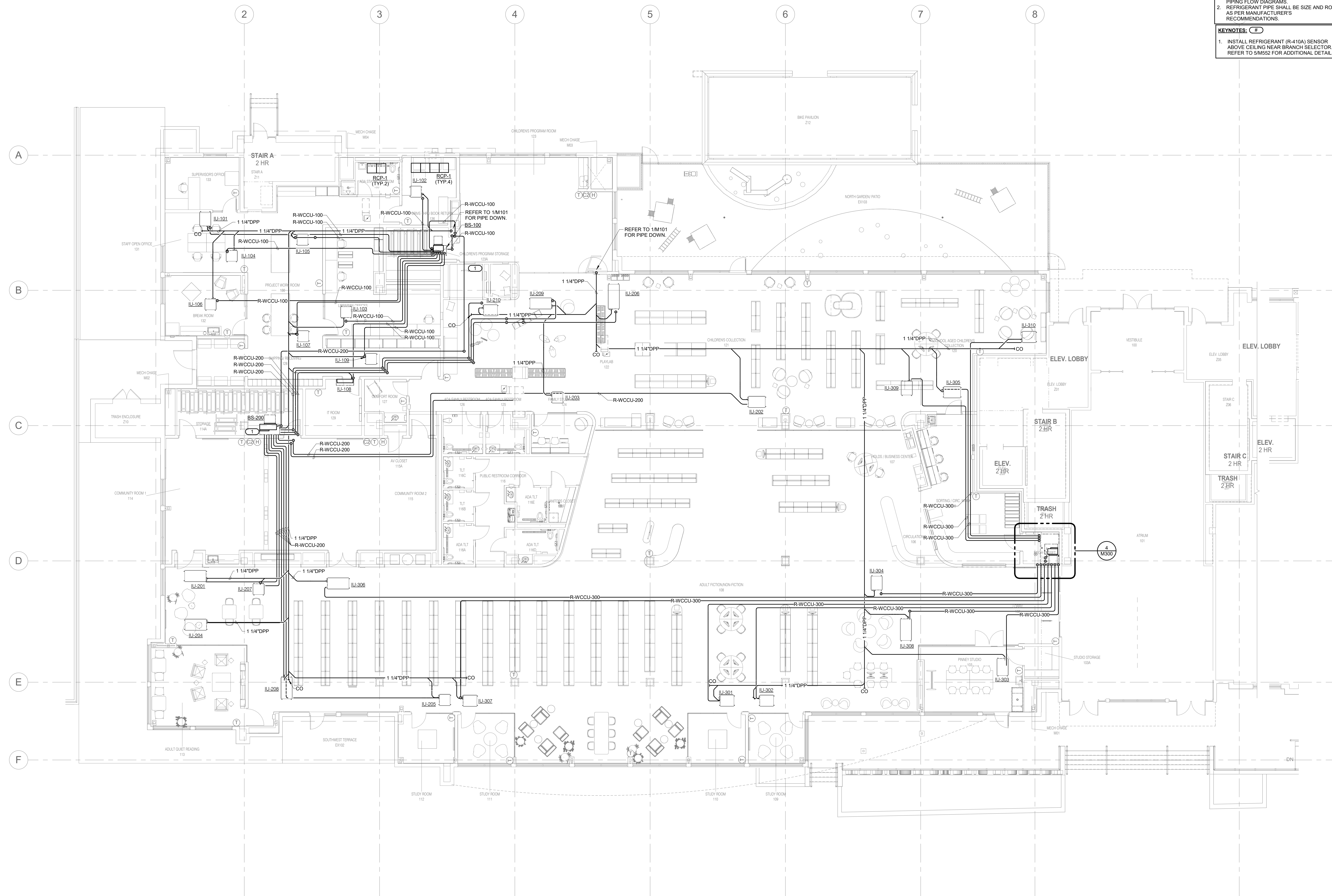
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Sheet Name
LEVEL 0 FLOOR PLAN - PIPING

Sheet Number
M200

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GENERAL NOTES:

- VRF REFRIGERANT PIPING GENERAL ROUTING SINGLE LINE SHOWN TO REPRESENT INTENDED PATH. MULTIPLE PIPES WILL BE REQUIRED. CONTRACTOR TO DETERMINE FINAL ROUTING BASED ON SITE CONDITIONS AND COORDINATION WITH OTHER TRADES. REFER TO M501 FOR VRF REFRIGERANT PIPING FLOW DIAGRAMS.
- REFRIGERANT PIPE SHALL BE SIZE AND ROUTE AS PER MANUFACTURER'S RECOMMENDATIONS.

KEYNOTES: (E)

- INSTALL REFRIGERANT (R-410A) SENSOR ABOVE CEILING NEAR BRANCH SELECTOR. REFER TO S1M52 FOR ADDITIONAL DETAILS.

1 LEVEL 1 FLOOR PLAN - PIPING
1/8" = 1'-0"

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OPN Project No. **17609000**

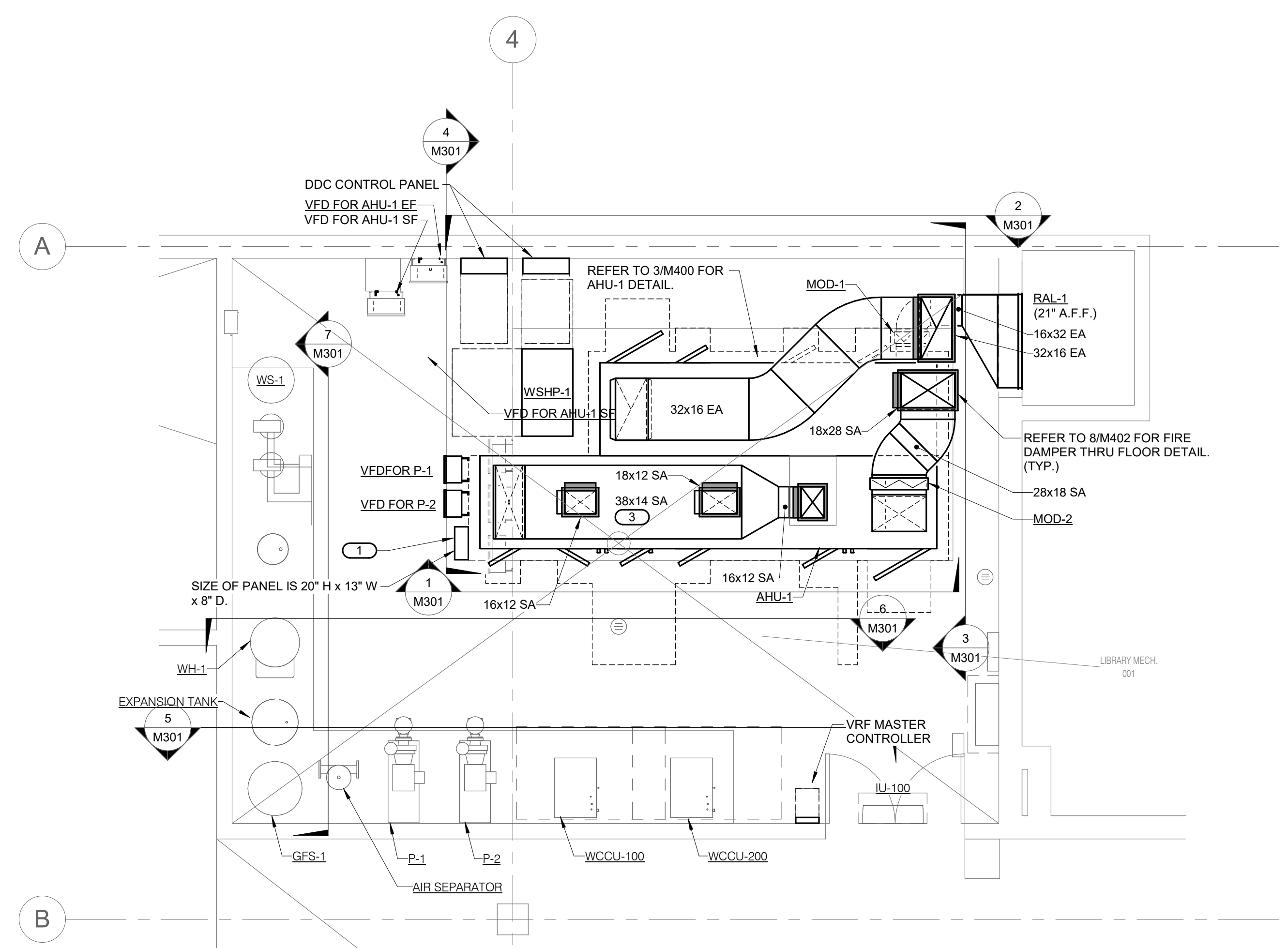
Sheet Issue Date _____

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Sheet Name
LEVEL 1 FLOOR PLAN - PIPING

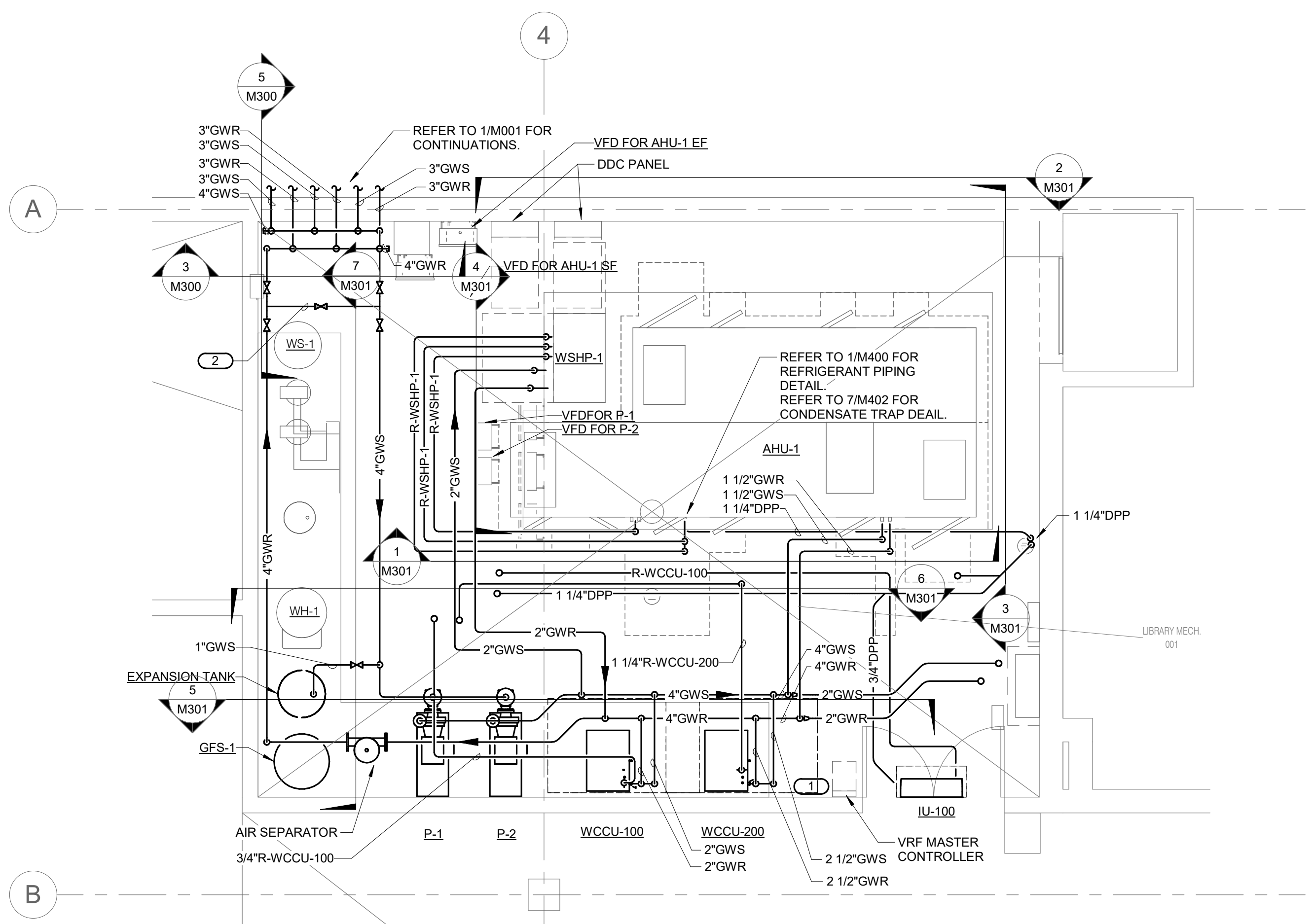
Sheet Number
M201

- GENERAL NOTES:**
- REFER TO 2M500 FOR GLYCOL WATER PIPING FLOW DIAGRAM AND 1M501 FOR REFRIGERANT PIPING FLOW DIAGRAM. CONTRACTOR SHALL INSTALL ALL THE REQUIRED ACCESSORIES AS PER FLOW DIAGRAM.
 - REFRIGERANT PIPE SHALL BE SIZE AND ROUTE PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE 2" DOUBLE WALL DUCTWORK WITH PERFORATED LINER IN MECHANICAL ROOM SUPPLY DUCTWORK.
 - VRF REFRIGERANT PIPING GENERAL ROUTING. SINGLE LINE SHOWN TO REPRESENT INTENDED PATH. MULTIPLE PIPES WILL BE REQUIRED. CONTRACTOR TO DETERMINE FINAL ROUTING BASED ON SITE CONDITIONS AND COORDINATION WITH OTHER TRADES. REFER TO M501 FOR VRF REFRIGERANT PIPING FLOW DIAGRAMS.

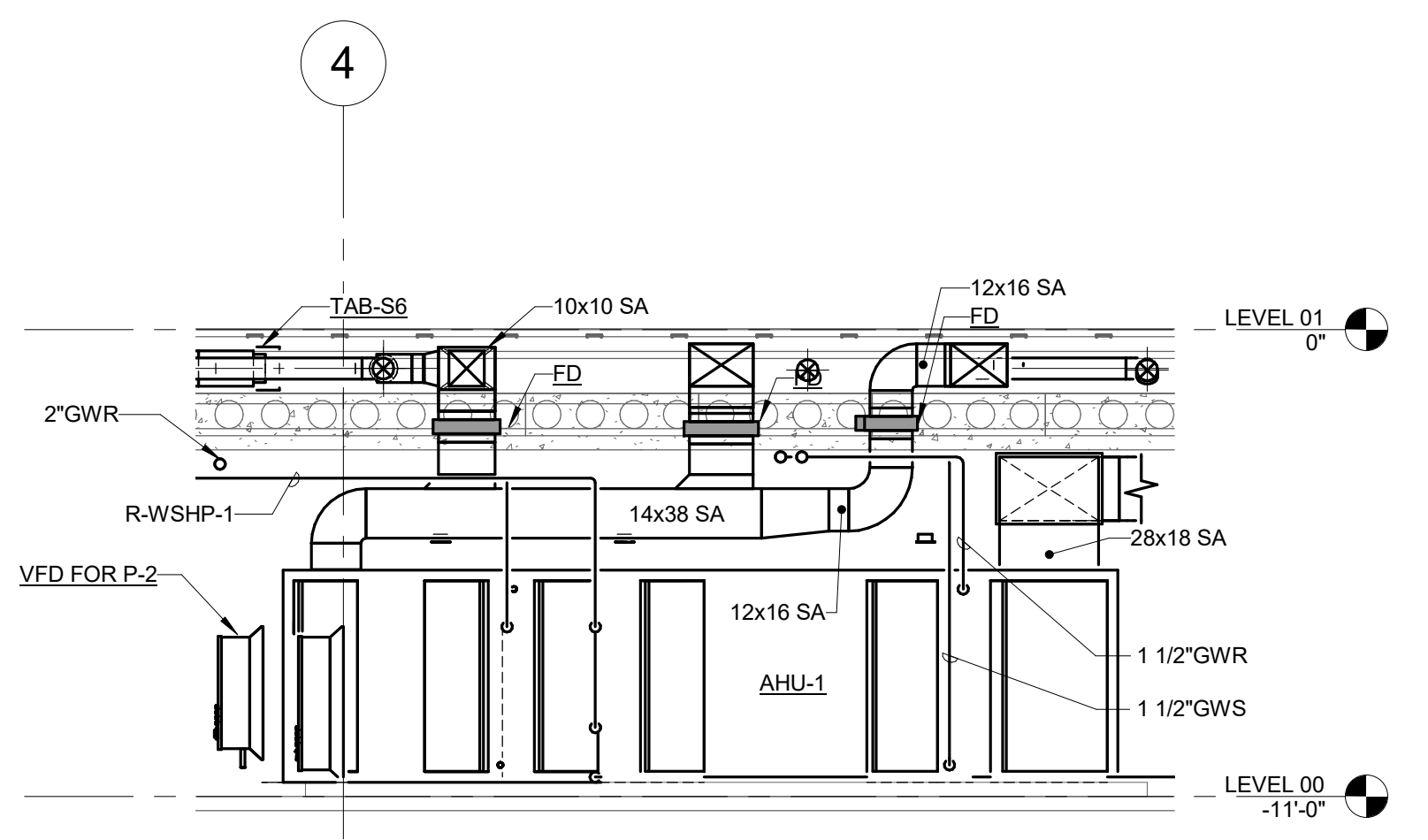


1 ENLARGED PLAN - LIB. MECH - VENTILATION
 1/4" = 1'-0"

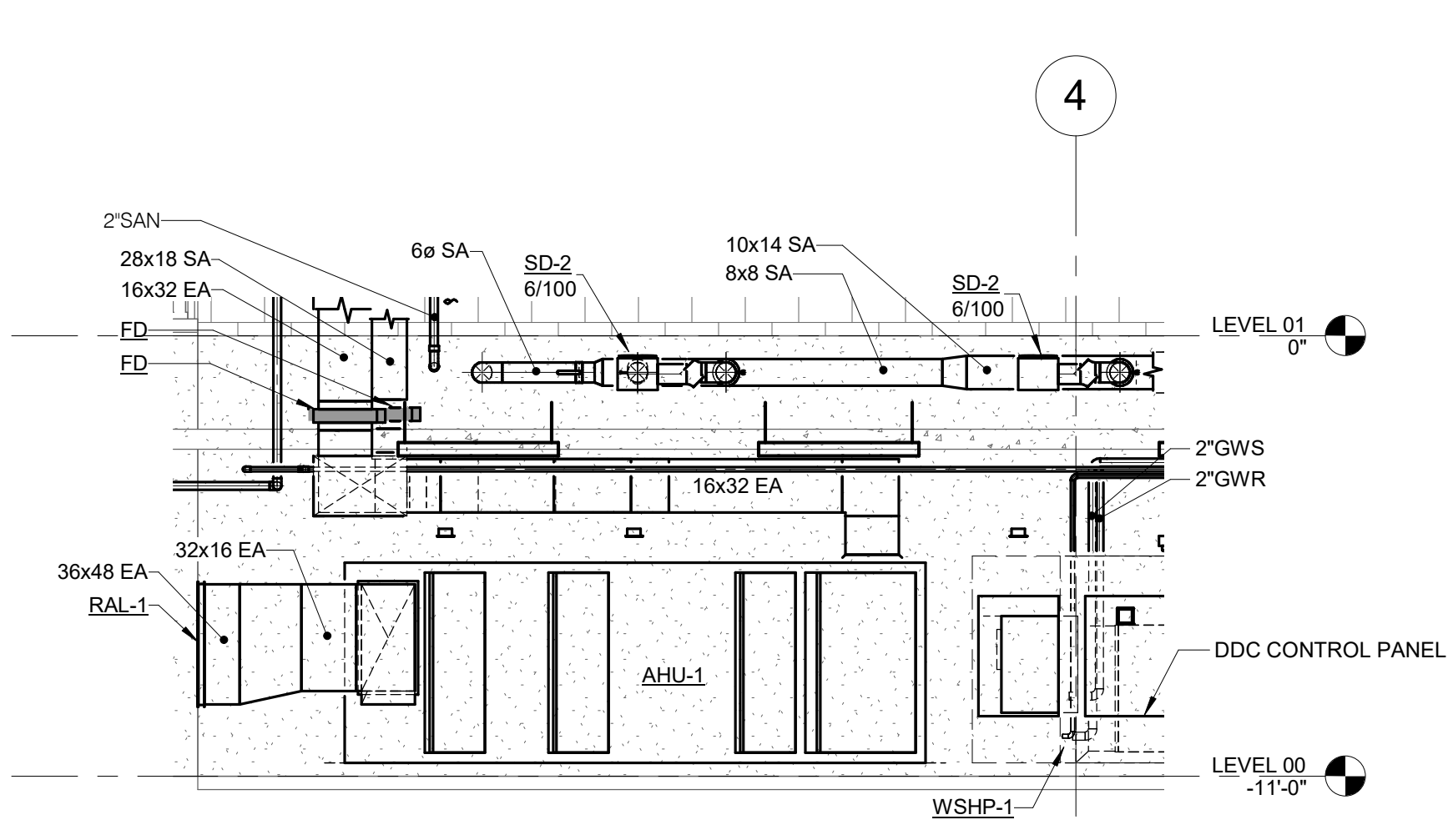
- KEYNOTES:** #
- MOUNT REMOTE CONTROL PANEL FOR AHU-1 EMERGENCY ELECTRIC HEATER ON UNISTRUT AT END OF UNIT. UNISTRUT SHALL BE SUPPORTED BETWEEN FLOOR AND CEILING STRUCTURE.



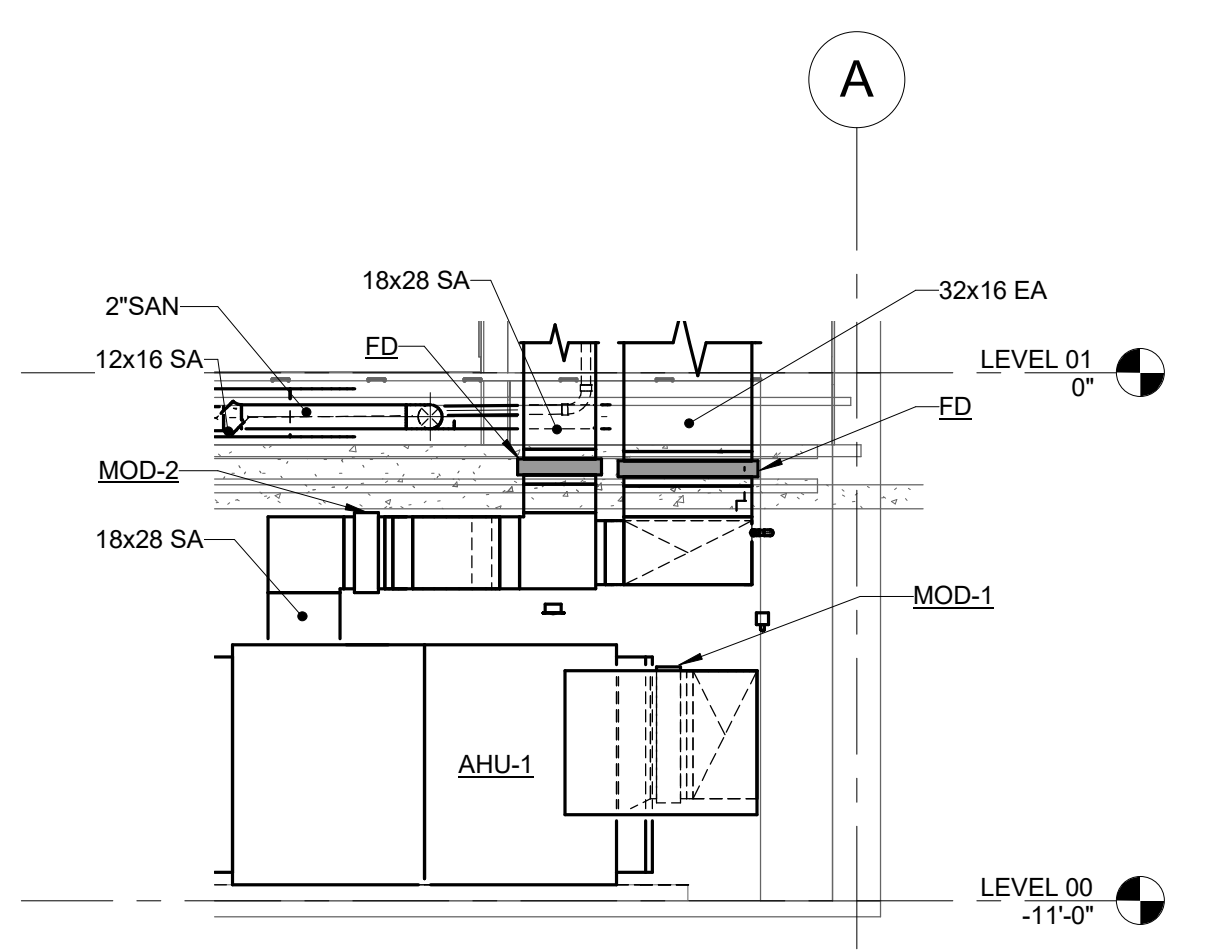
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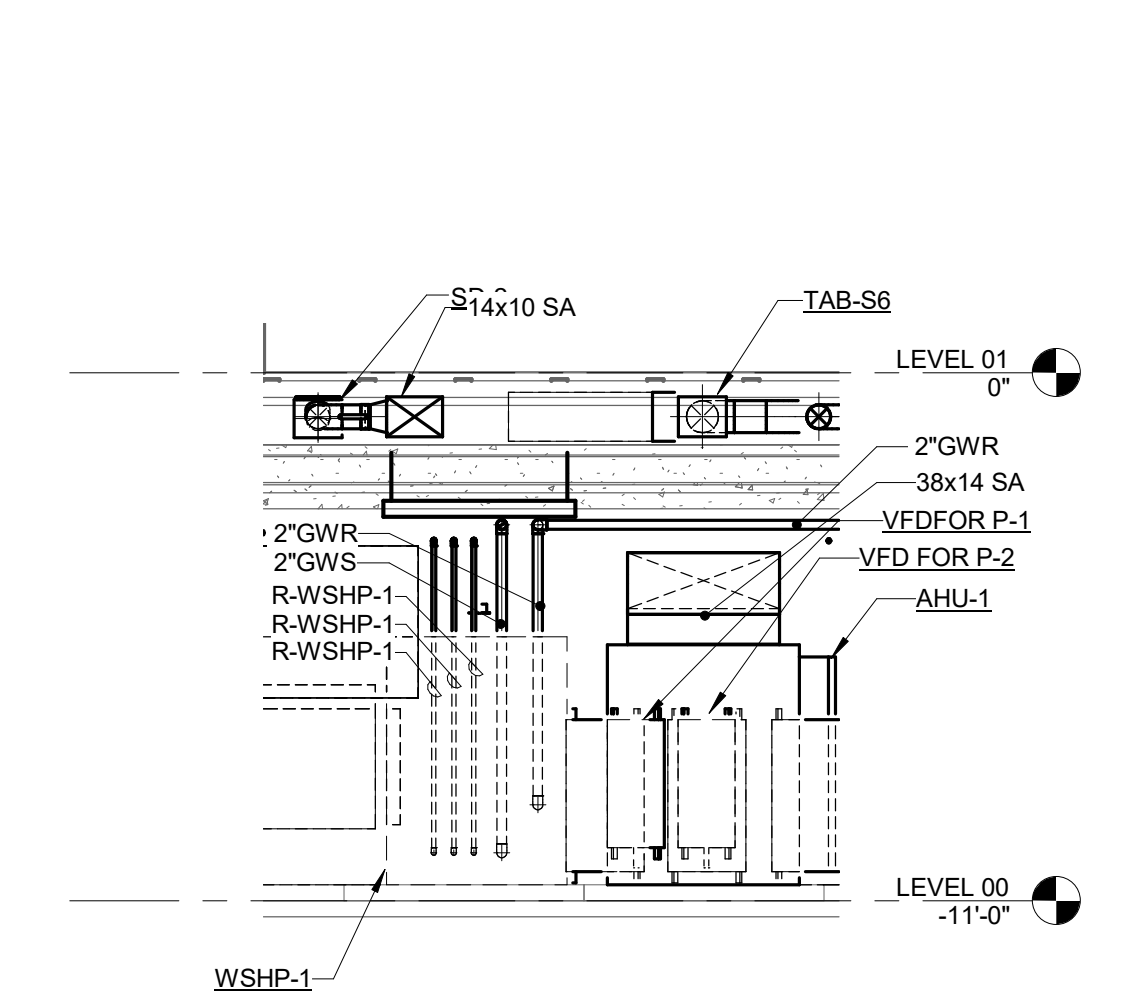
1 SECTION FOR AHU-1 NORTH MECHANICAL
1/4" = 1'-0"



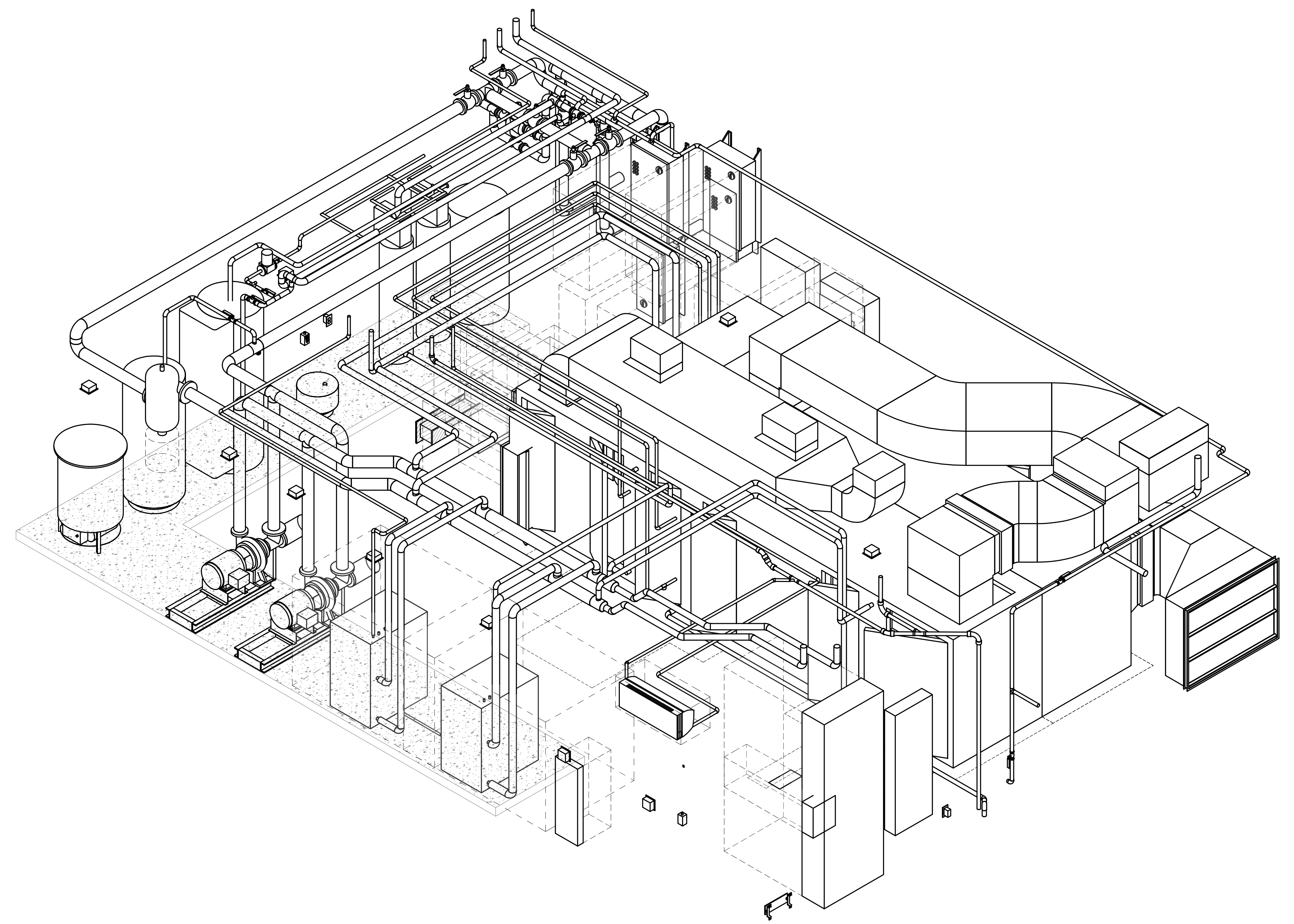
2 SECTION FOR AHU-1 SOUTH MECHANICAL
1/4" = 1'-0"



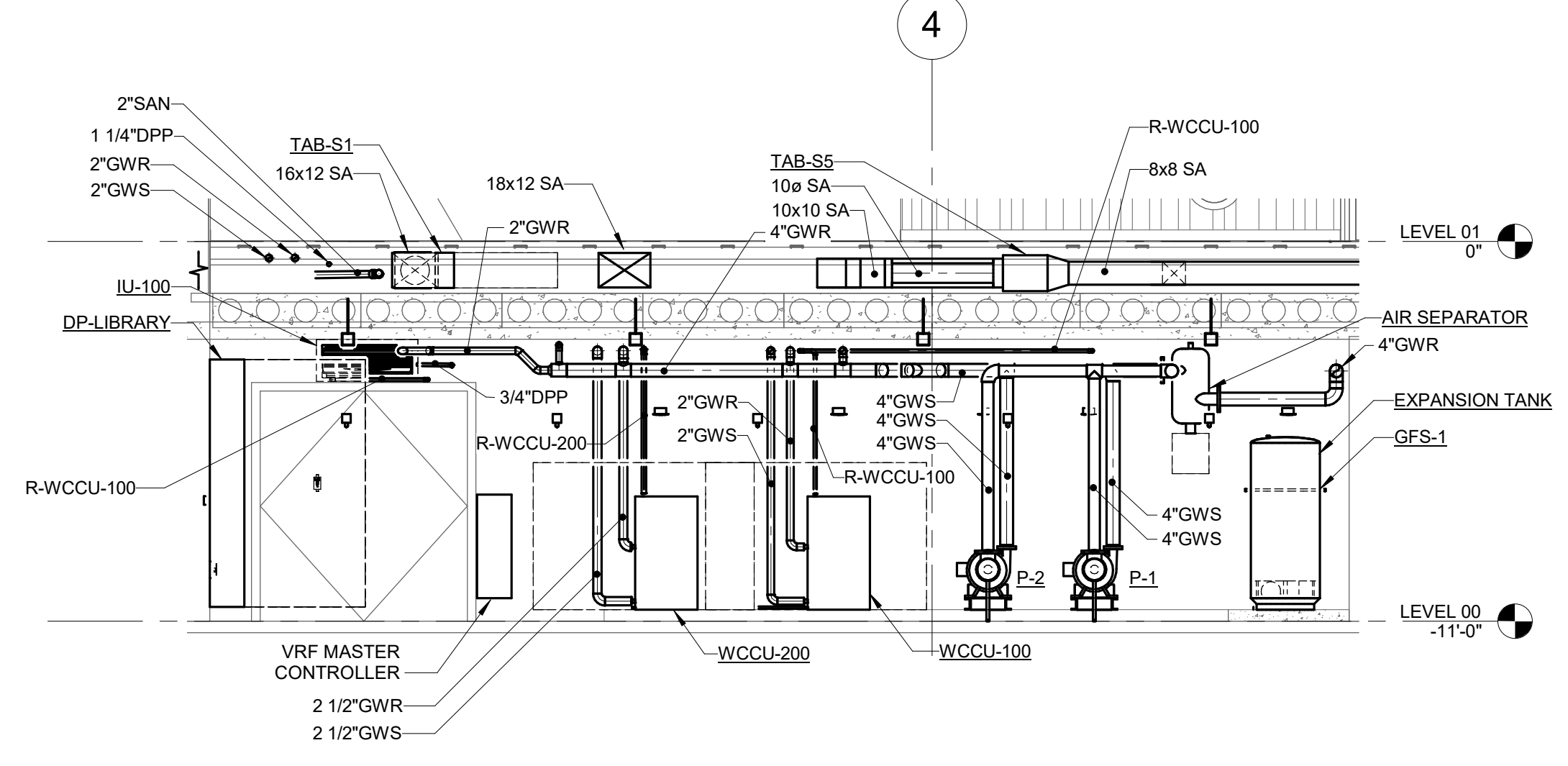
3 SECTION FOR AHU-1 WEST MECHANICAL
1/4" = 1'-0"



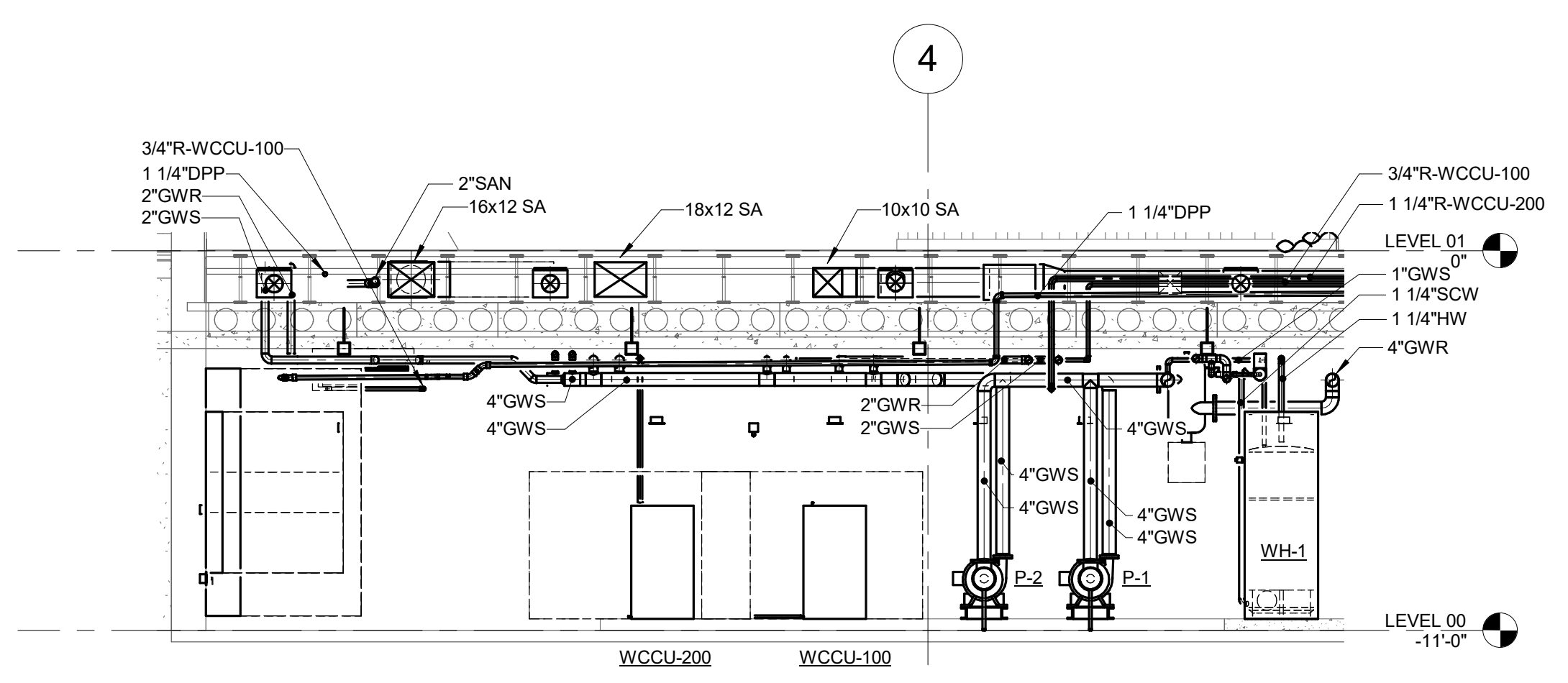
4 SECTION FOR AHU-1 EAST MECHANICAL
1/4" = 1'-0"



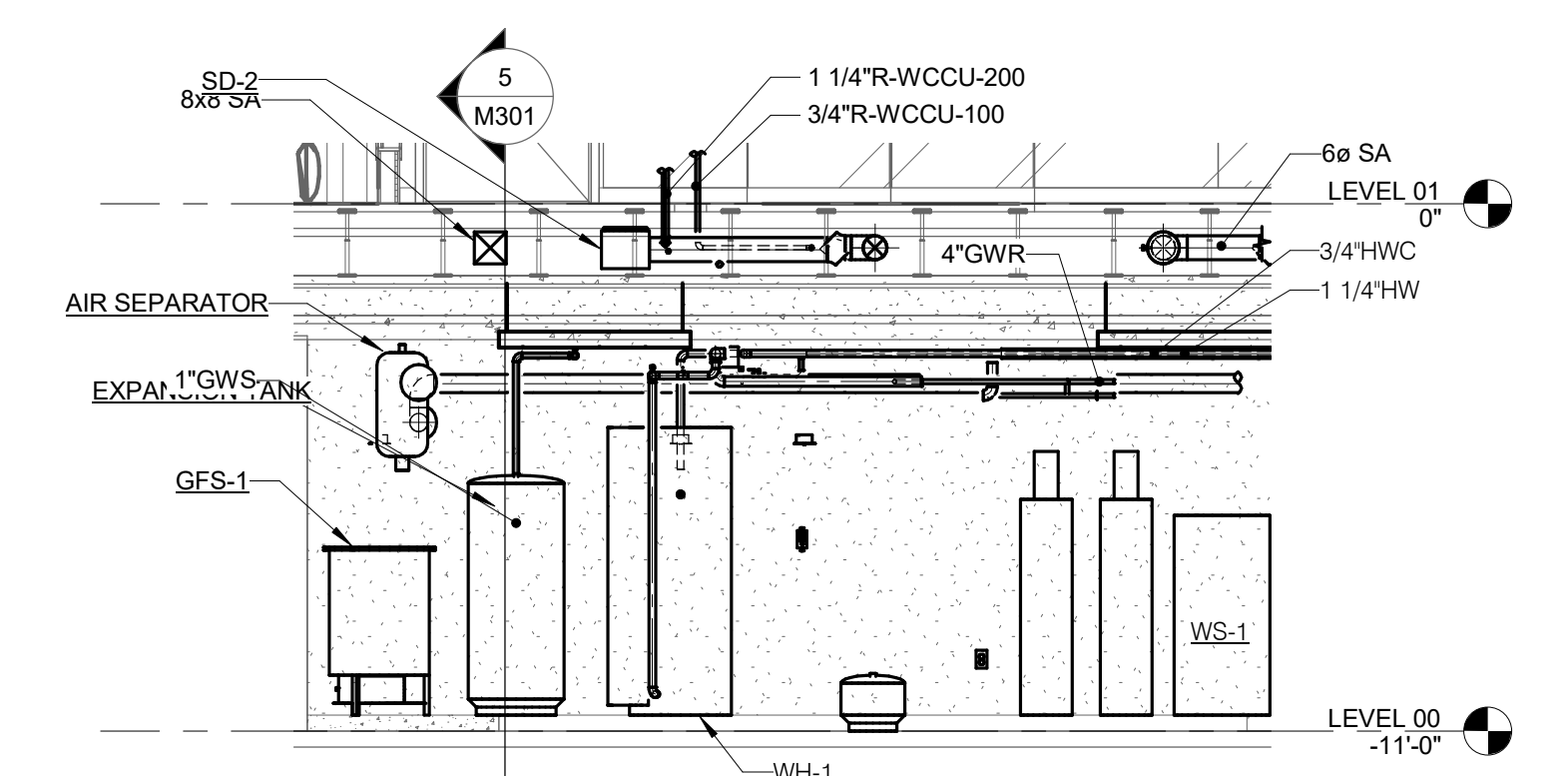
8 ISOMETRIC PLAN- MECHANICAL



5 SECTION FOR WATER COOLED CONDENSING UNIT NORTH- MECHANICAL
1/4" = 1'-0"



6 SECTION FOR WATER COOLED CONDENSING UNIT SOUTH- MECHANICAL
1/4" = 1'-0"



7 SECTION FOR MECHANICAL ROOM SOUTH - MECHANICAL
1/4" = 1'-0"

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Sheet Name
ENLARGED PLANS AND SECTIONS - MECHANICAL

Sheet Number
M301



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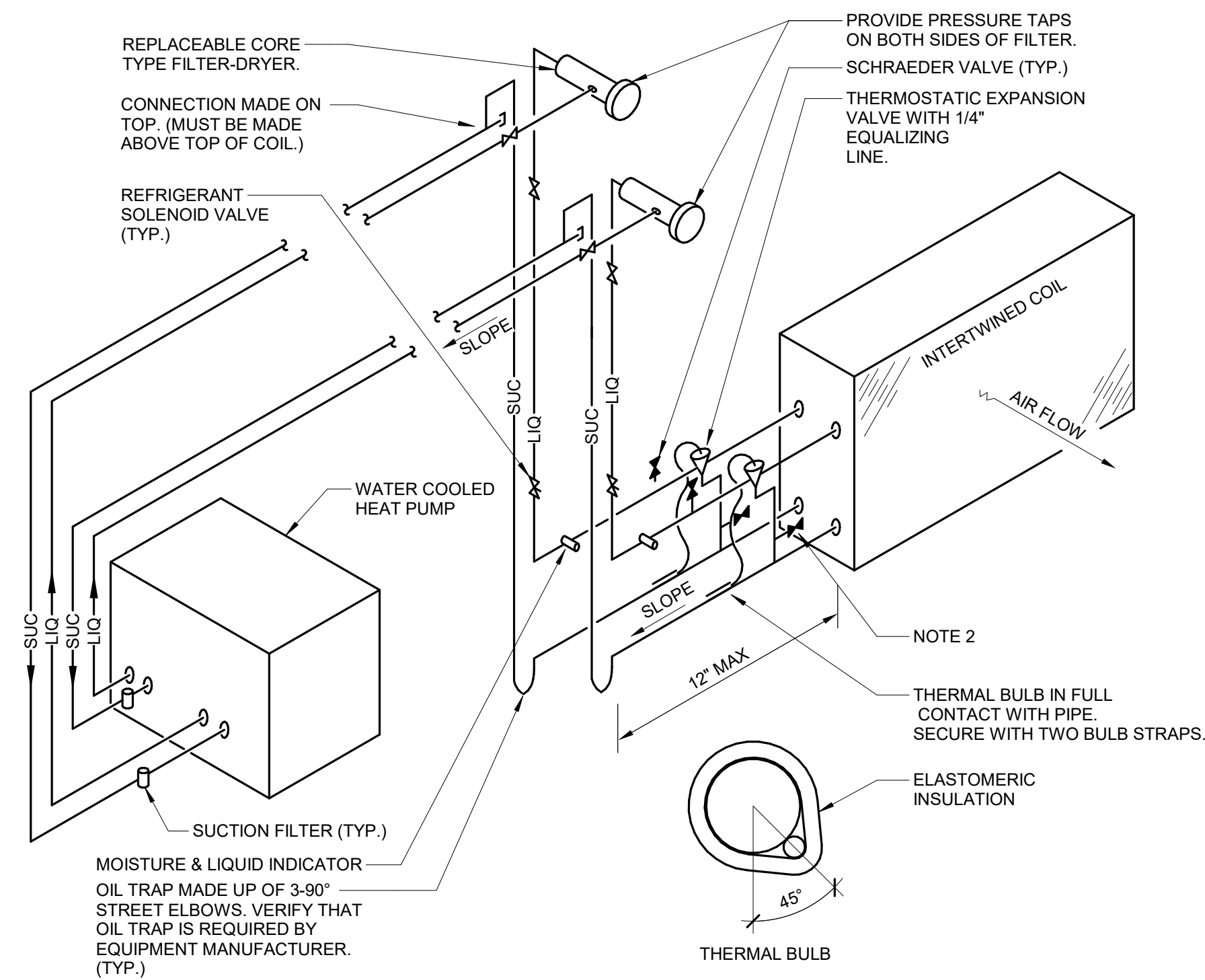
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Sheet Name
MECHANICAL DETAILS

Sheet Number

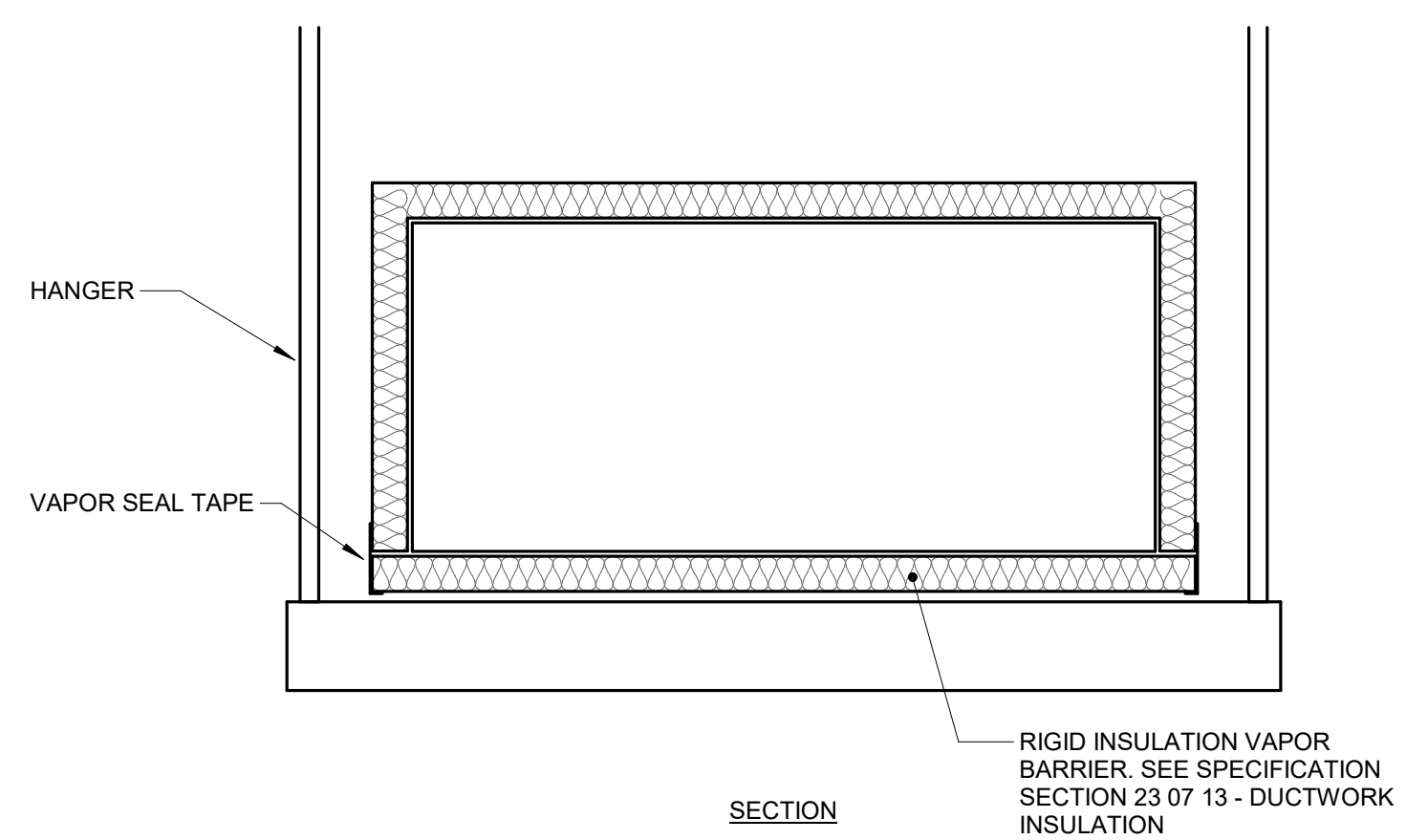
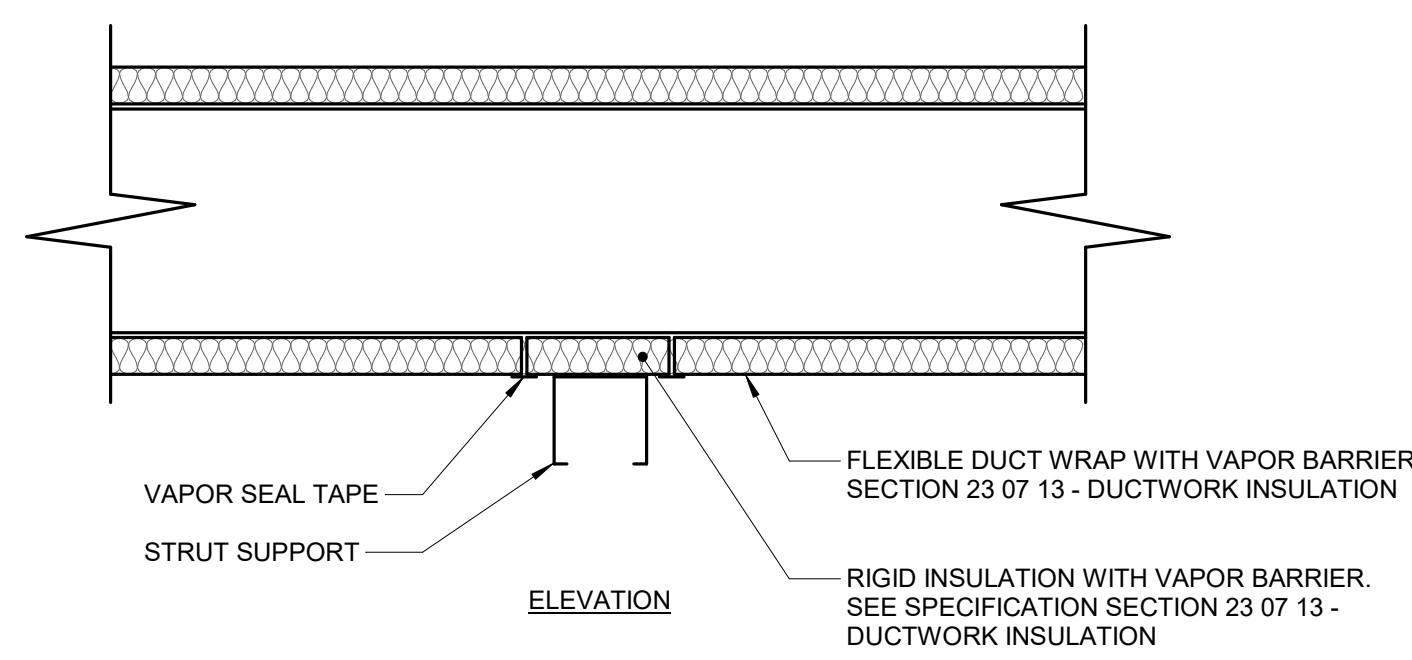
M400



1 REFRIGERANT PIPING DETAIL (VERT. INTERTWINED)

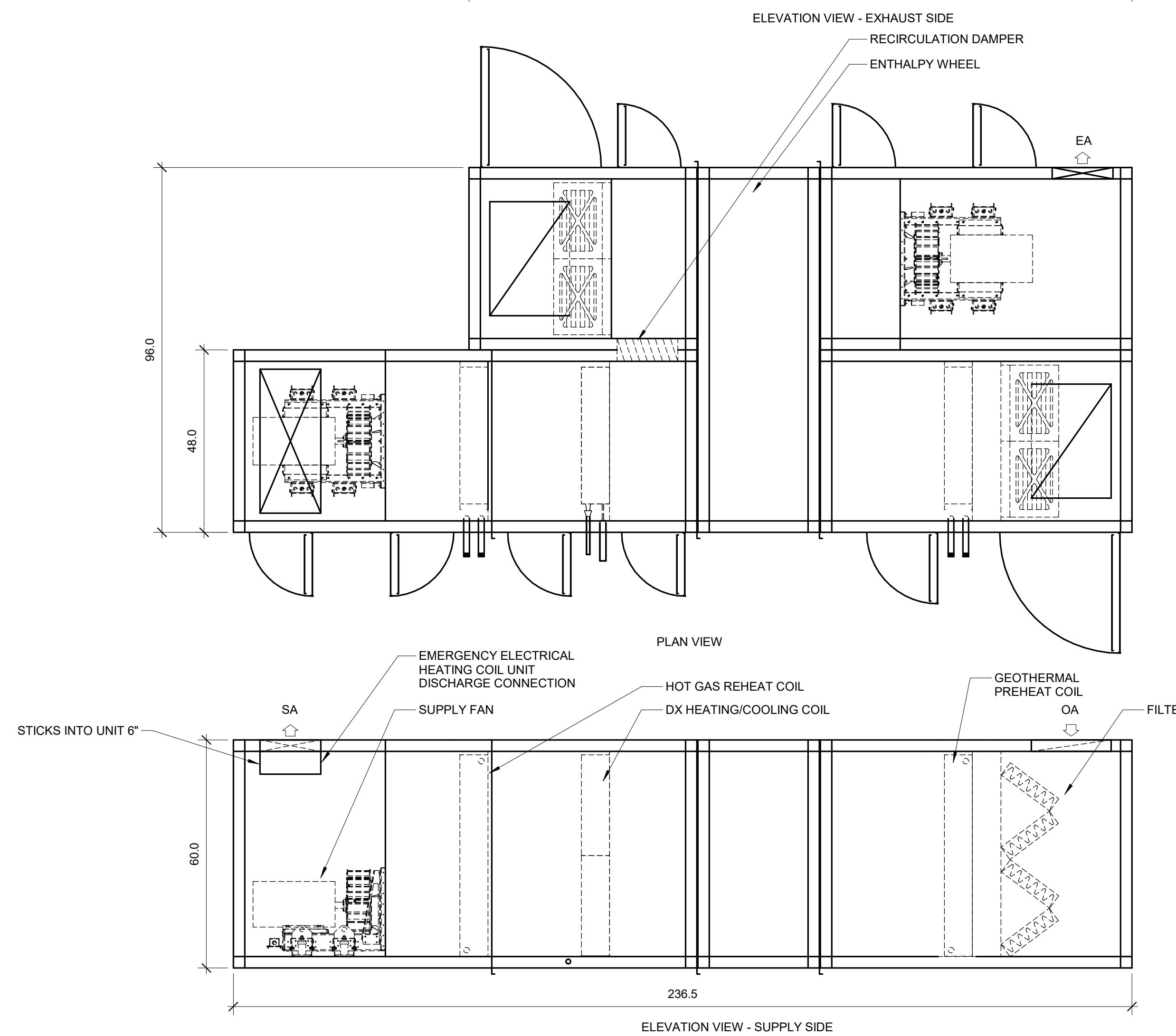
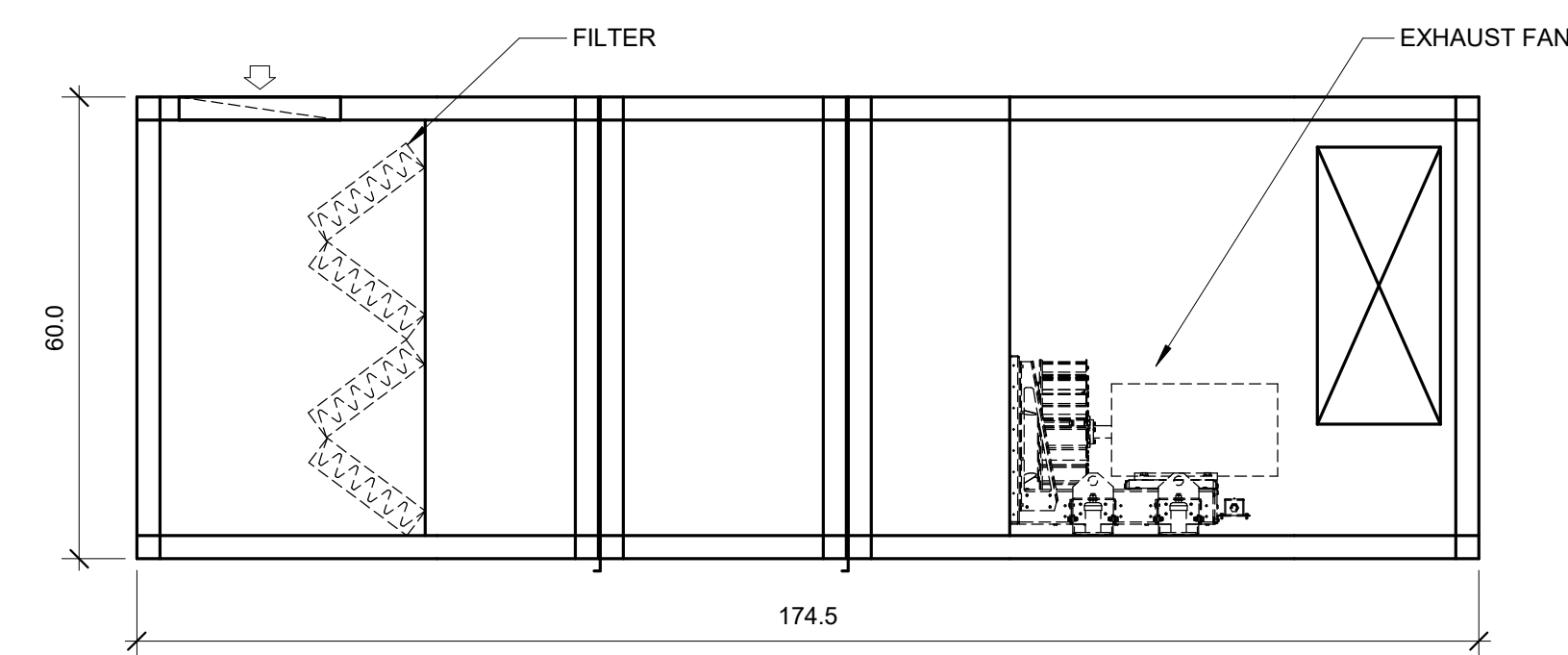
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NOTES:

- THIS DIAGRAM IS SCHEMATIC IN NATURE. UNIT MANUFACTURER SHALL SUBMIT DETAILED PIPING DIAGRAM SHOWING RECOMMENDED PIPING ARRANGEMENT IF DIFFERENT FROM ABOVE.
- INSTALL 1/4" SCHRAEDER VALVES TO MEASURE REFRIGERANT PRESSURE WITH REFRIGERANT GAUGES.
- PIPE SIZES, IF SHOWN ON DRAWINGS, ARE ONLY FOR THE CONVENIENCE OF THE BIDDERS. ACTUAL NUMBERS AND SIZES OF PIPES AND ANY ACCESSORIES SUCH AS ACCUMULATORS, RECEIVERS, SEPARATORS AND HEAT TRACING SHALL BE DETERMINED BY THE COIL SUPPLIER AND SUBMITTED AS SHOP DRAWINGS. NO COMPENSATION WILL BE MADE IF ACTUAL NUMBER OR SIZES OF PIPES EXCEED WHAT IS SHOWN.
- QUANTITY OF COILS VARY PER UNIT. PROVIDE INTERTWINED COIL CONNECTIONS FOR STACKED COILS SO BOTH COILS HAVE EQUAL COOLING AT PART LOAD CONDITIONS.
- PIPING DETAIL SHOWN IS FOR COOLING ONLY DX COIL. HEAT PUMP STYLE UNITS MAY REQUIRE ADDITIONAL ACCESSORIES FOR COMPLETE SYSTEM PER MANUFACTURER RECOMMENDATIONS.



2 TRAPEZE HANGER DUCT WRAP VAPOR SEAL DETAIL

NO SCALE



3 AHU-1 DETAIL

NO SCALE

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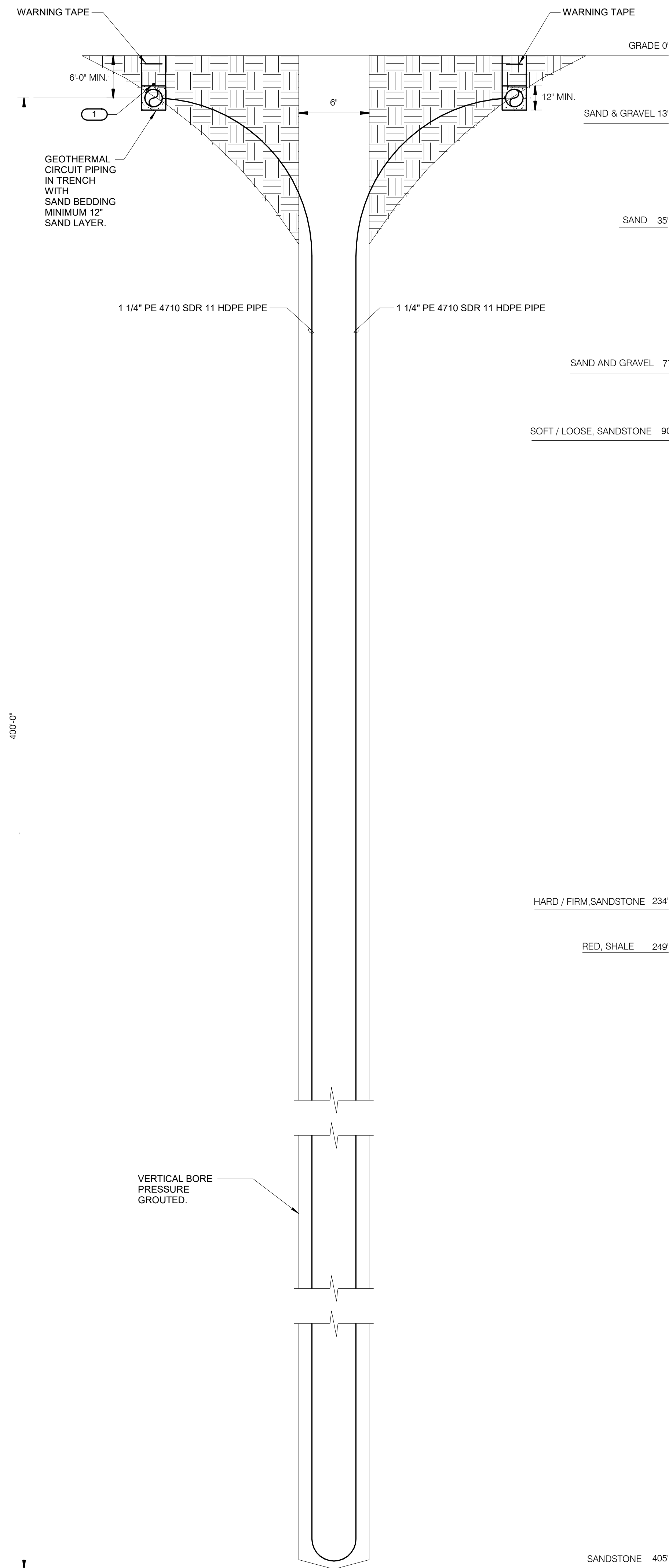
City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
MECHANICAL DETAILS

Sheet Number
M401



GEOHERMAL FIELD INFORMATION	
TOTAL NUMBER OF GEOHERMAL BORES	21
NUMBER OF BORES PER CIRCUIT	7
BORE DEPTH	SEE 2/M401
TYPICAL BORE SPACING	20'x20'
BOREFEILD FLUID TEMPERATURE ENTERING BUILDING WINTER	36°F MIN
BOREFEILD FLUID TEMPERATURE ENTERING BUILDING SUMMER	90°F MAX
GEOHERMAL FLUID	25% FOOD GRADE PROPYLENE GLYCOL
GROUT THERMAL CONDUCTIVITY	1.0BTU/H-FT.-°F
FORMATION THERMAL CONDUCTIVITY	2.0 BTU/HR-FT.-°F
FORMATION THERMAL DIFFUSIIVITY	1.28 FT2/ DAY
FORMATION THERMAL TEMPERATURE	51.7°F- 53.5°F
PEAK BLOCK COOLING LOAD	500 MBH
PEAK BLOCK HEATING LOAD	430 MBH
ASSUMED ANNUAL EFL COOLING HOURS	700
ASSUMED ANNUAL EFL HEATING HOURS	750

1 TYPICAL BOREFIELD CIRCUIT SIZING
NO SCALE

- NOTES:
1. ALL GWR/GWS PIPING FOR BOREFIELD CIRCUITS SHALL BE AT LEAST 6'-0" BELOW FINISHED GRADE.

2 GEOHERMAL EXCHANGER DETAIL
NO SCALE

- KEYNOTES:
1. LOCATING WIRE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON THE ENTIRE PERIMETER OF CIRCUIT PIPING AT EDGES OF WELL FIELD, ON CIRCUIT PIPING BETWEEN WELL FIELD AND BUILDING.

3 GEOHERMAL FIELD INFORMATION
NO SCALE

- KEYNOTES:
1. REFER TO 23 57 33 FOR ADDITIONAL REQUIREMENTS.

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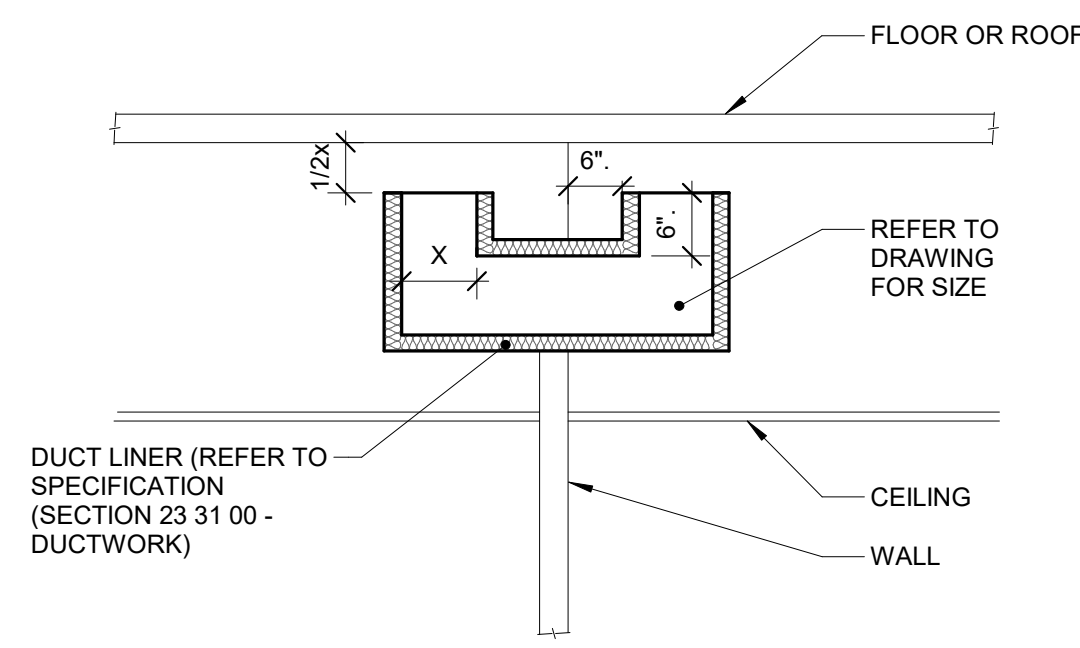
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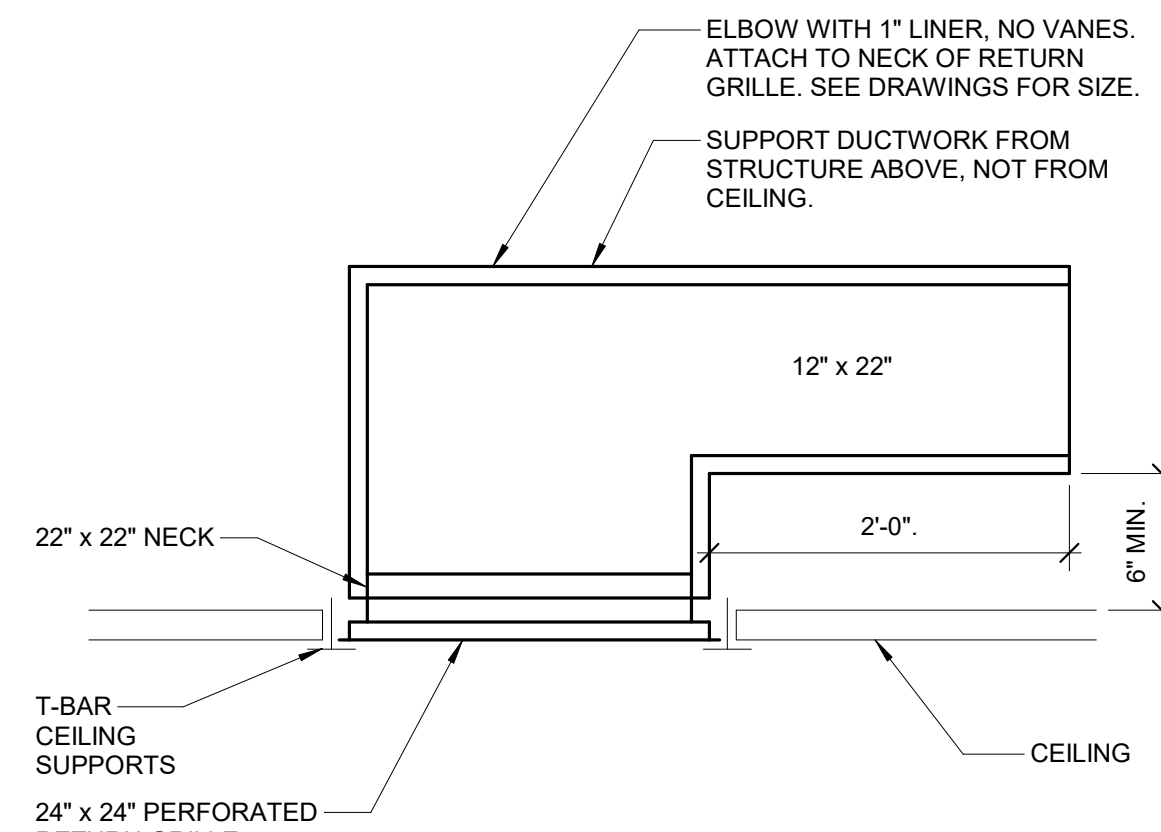
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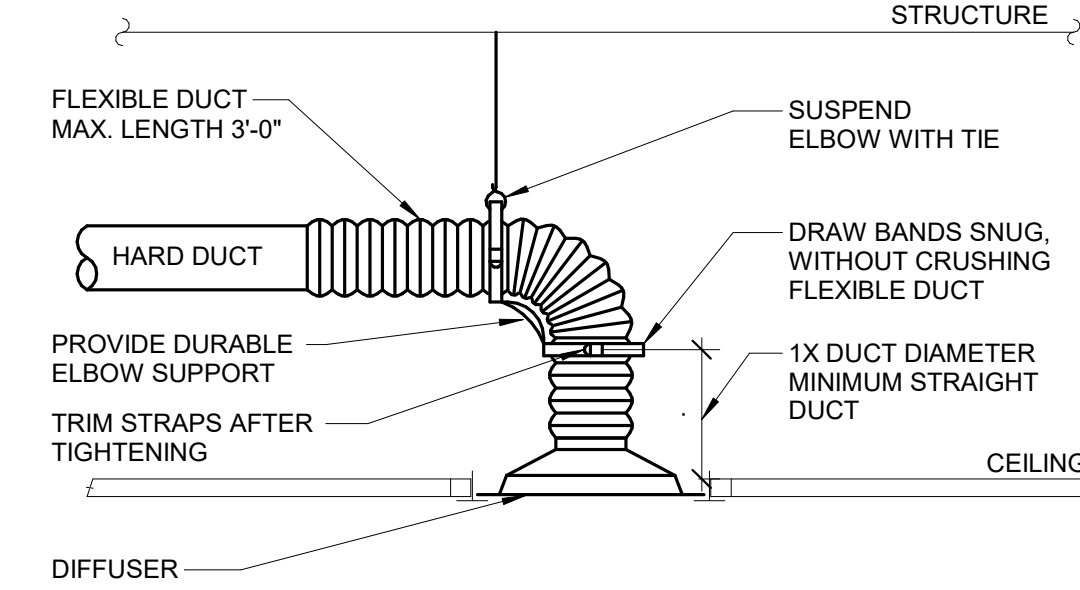
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1 TRANSFER DUCT DETAIL (ENDS UP)
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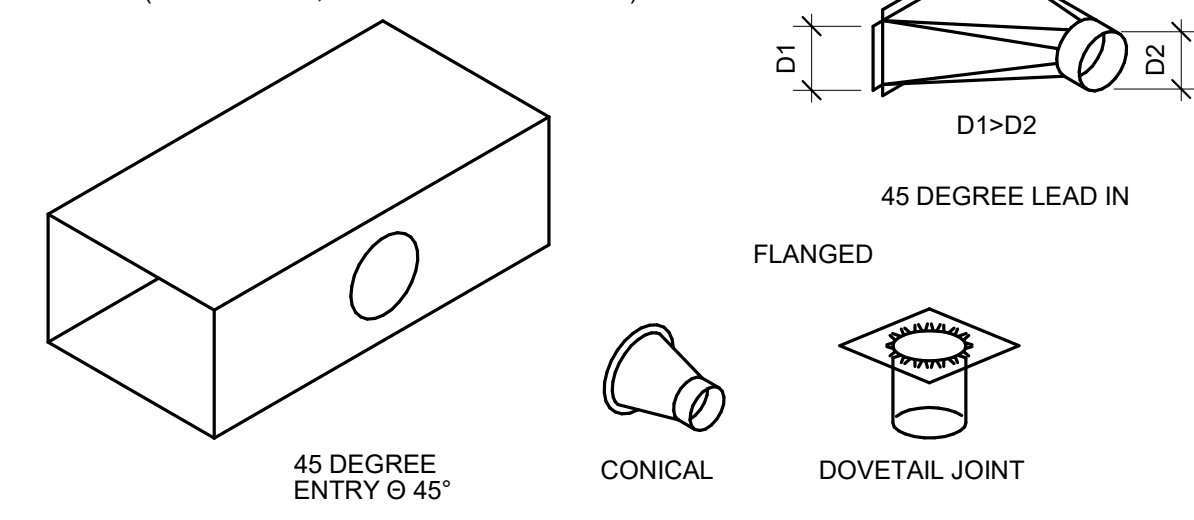
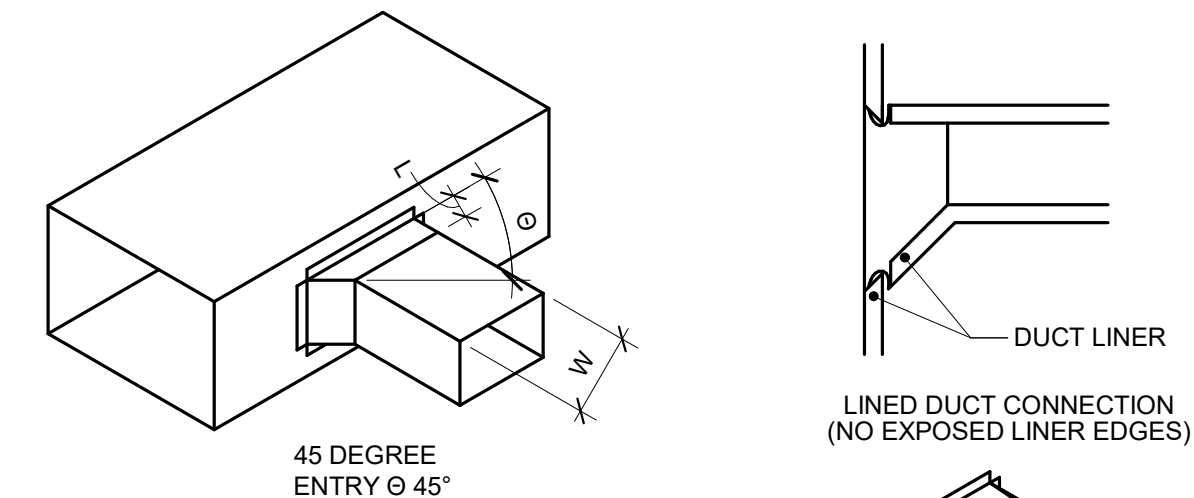
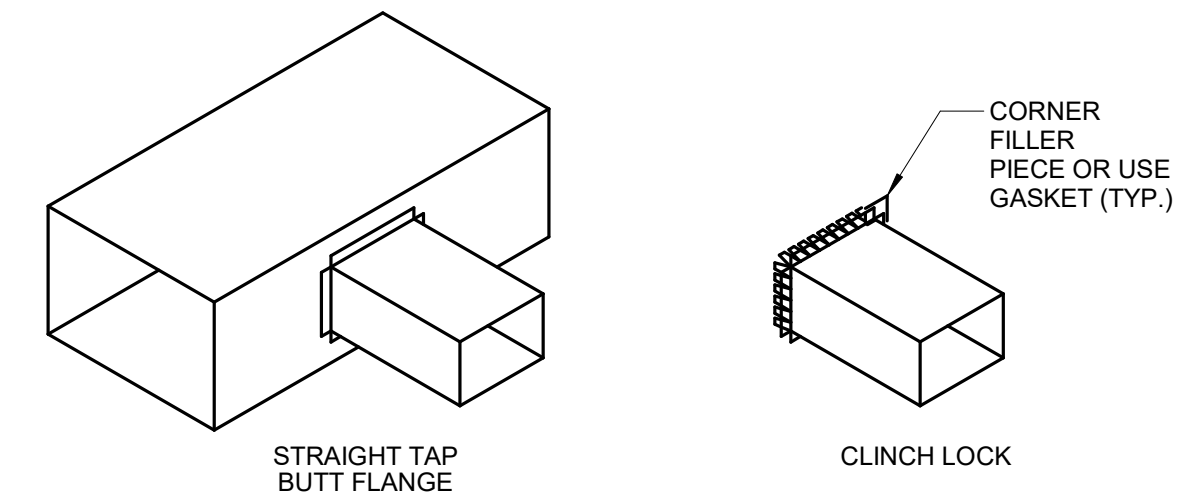


2 CEILING RETURN GRILLE
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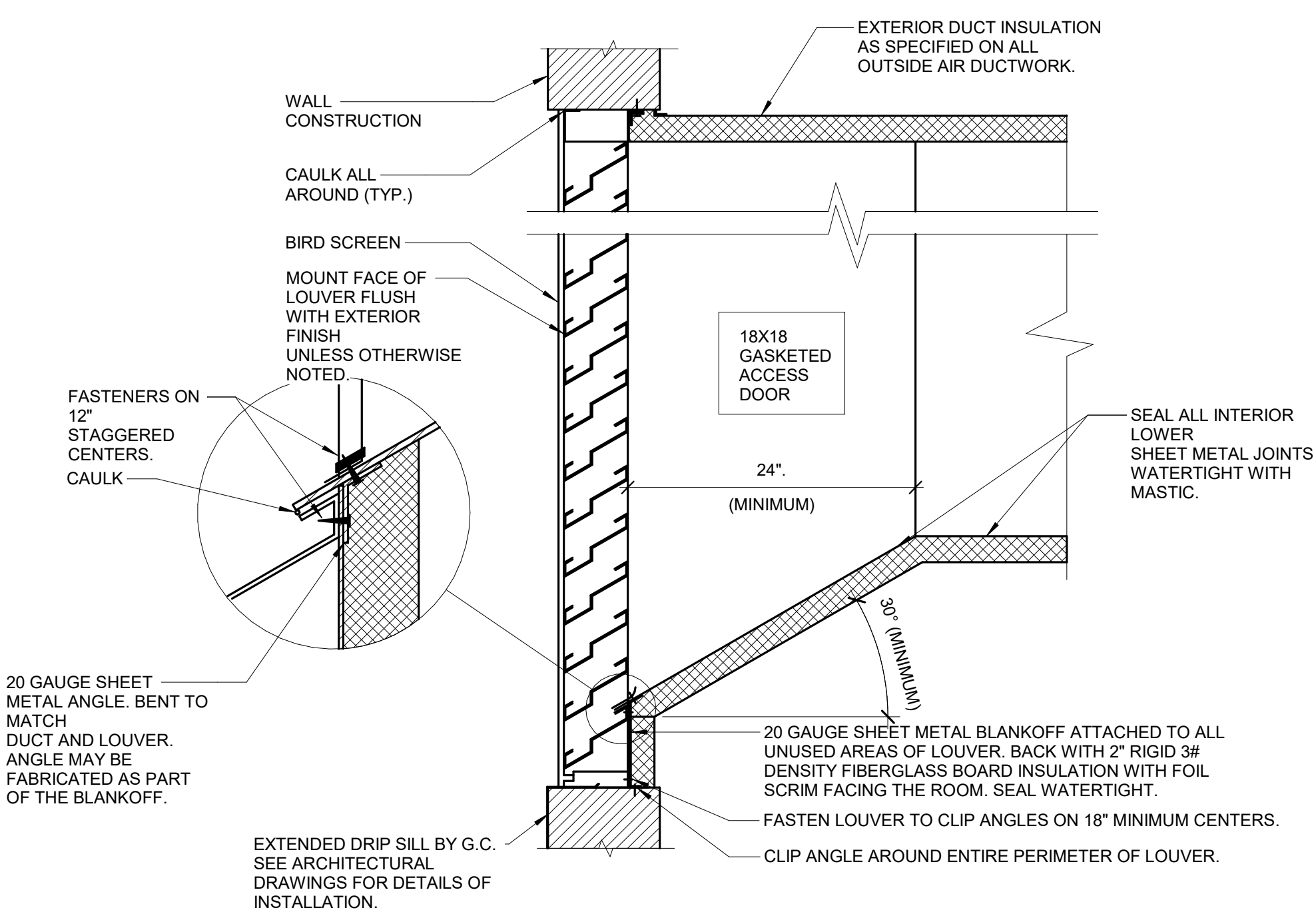
3 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)
NO SCALE

- NOTES:**
- TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS, ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO THE WRAPPING.
 - "SMARTFLOW" ELBOW THERMAFLEX "FLEXFLOW" AND "FLEXRIGHT" ARE ACCEPTABLE PRODUCTS FOR DURABLE ELBOW SUPPORT.



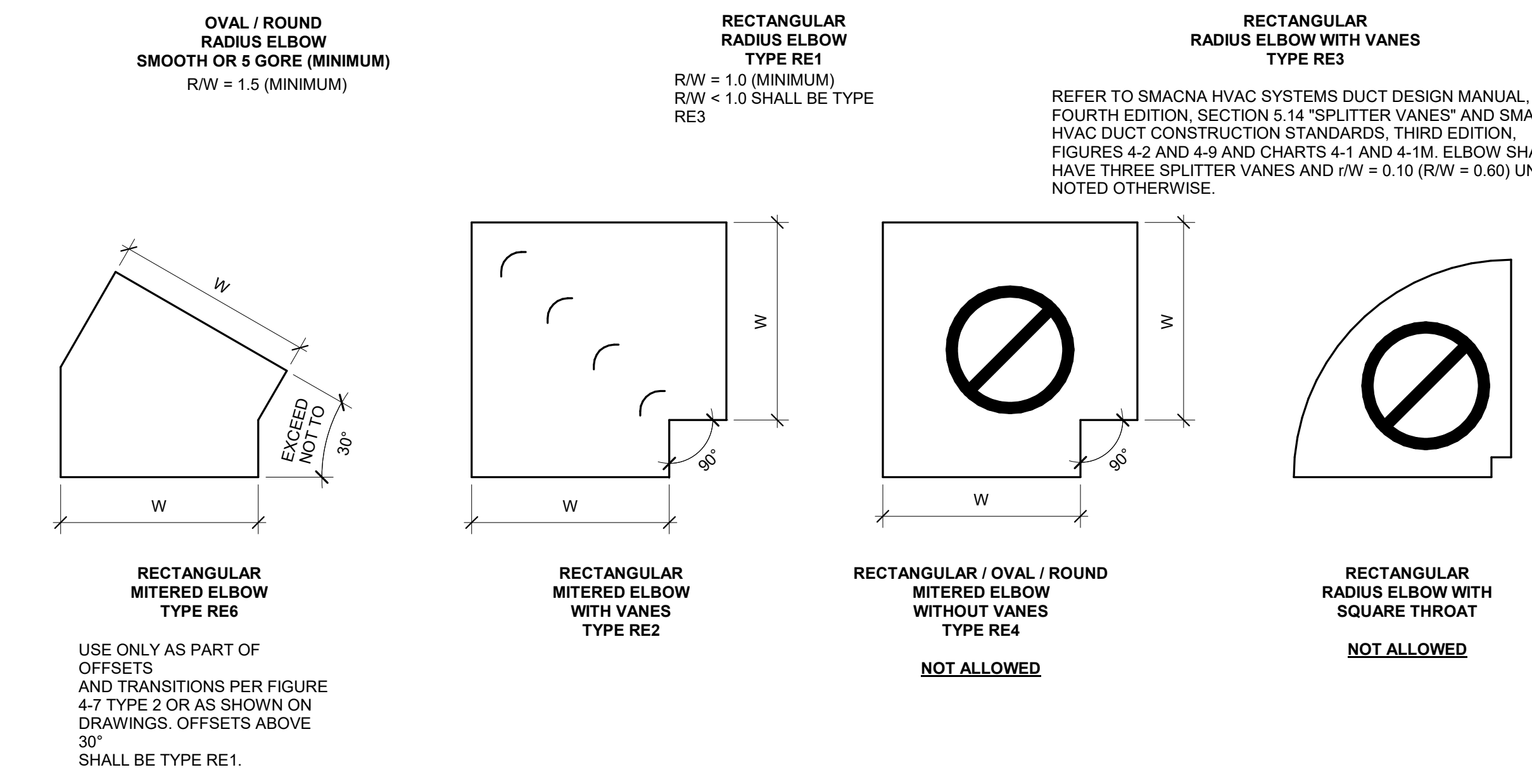
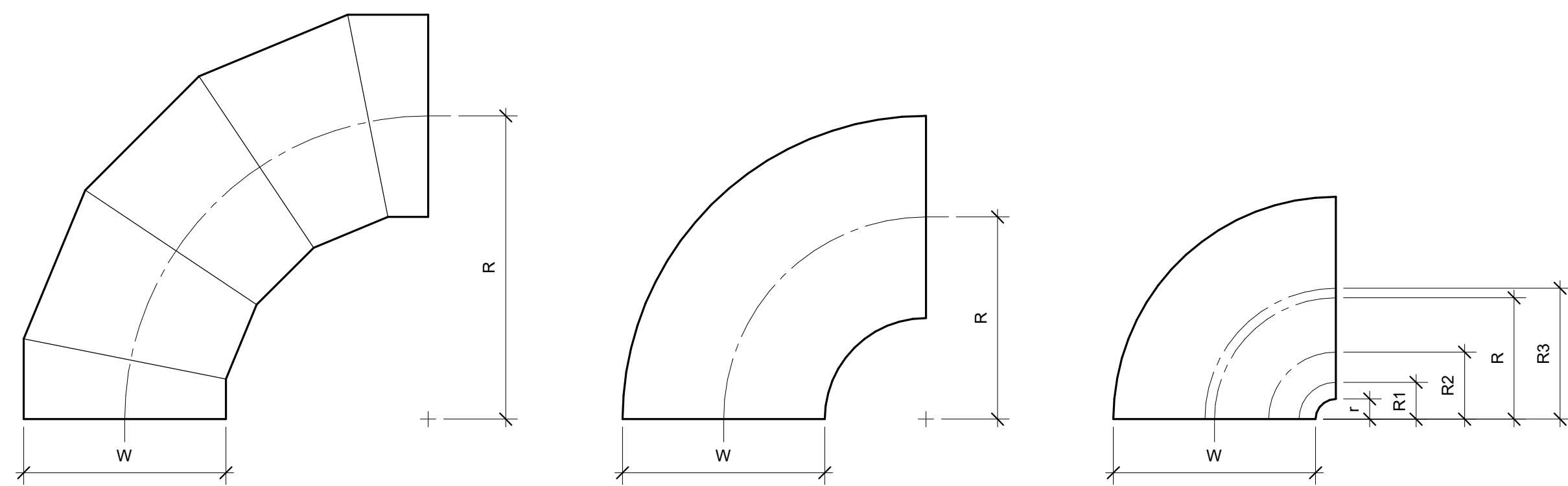
6 BRANCH CONNECTIONS
NO SCALE

- NOTES:**
- DO NOT USE CONNECTIONS WITH SCOOPS.
 - FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
 - ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 1" W.G. AND OVER.
 - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



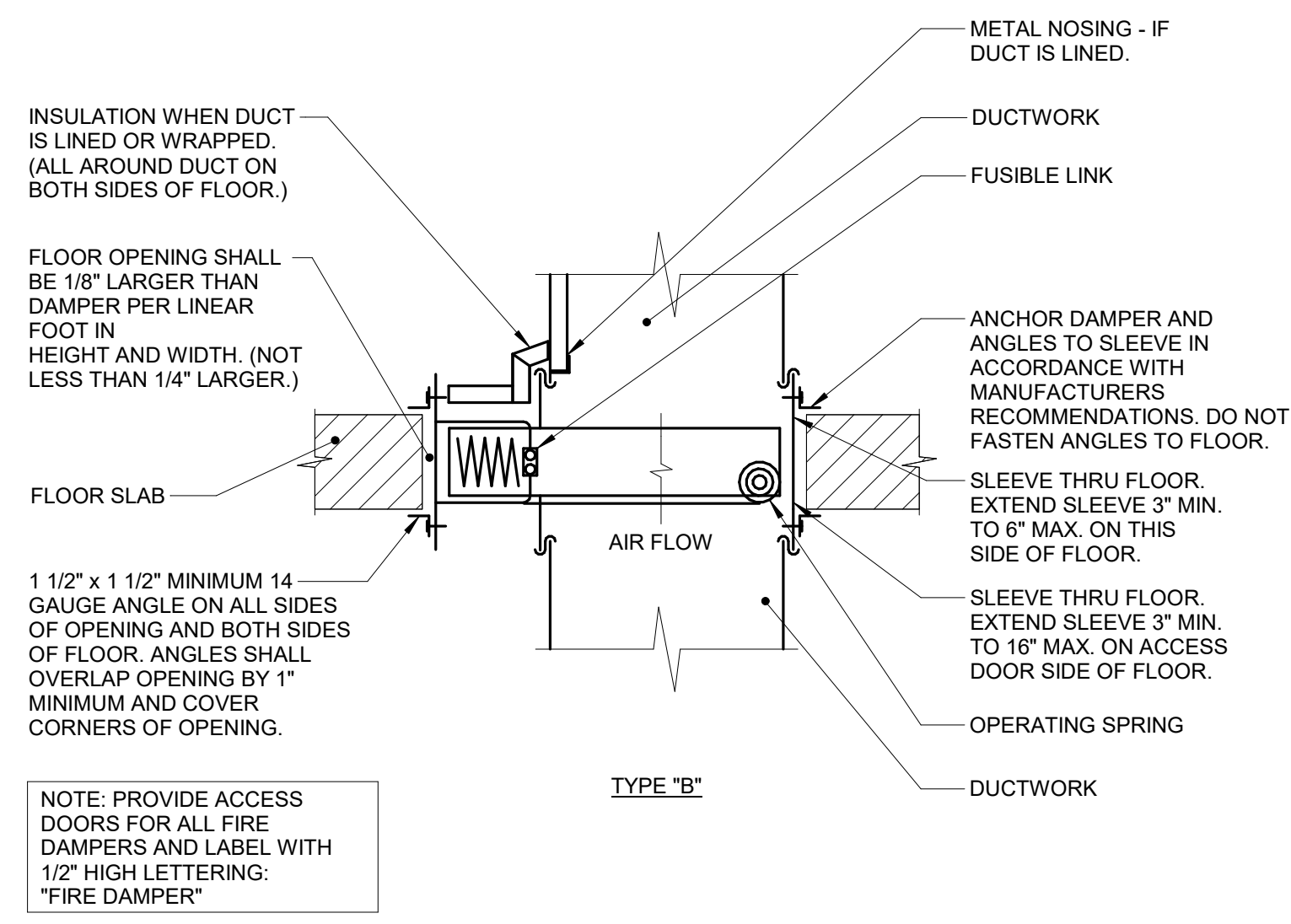
4 LOUVER INSTALLATION DETAIL
NO SCALE

- NOTES:**
- SEAL ALL JOINTS ON BOTTOM INTERIOR SURFACE OF DUCT WITHIN 6" OF THE LOUVER WATER TIGHT.
 - MOUNT BOTTOM OF INTAKE LOUVERS AT LEAST 40" ABOVE GRADE OR ROOF ELEVATION TO MINIMIZE CHANCES OF SNOW DRIFTING INTO THE LOUVER.
 - CAULK SHEET METAL SCREWS WHERE THEY PENETRATE METAL.

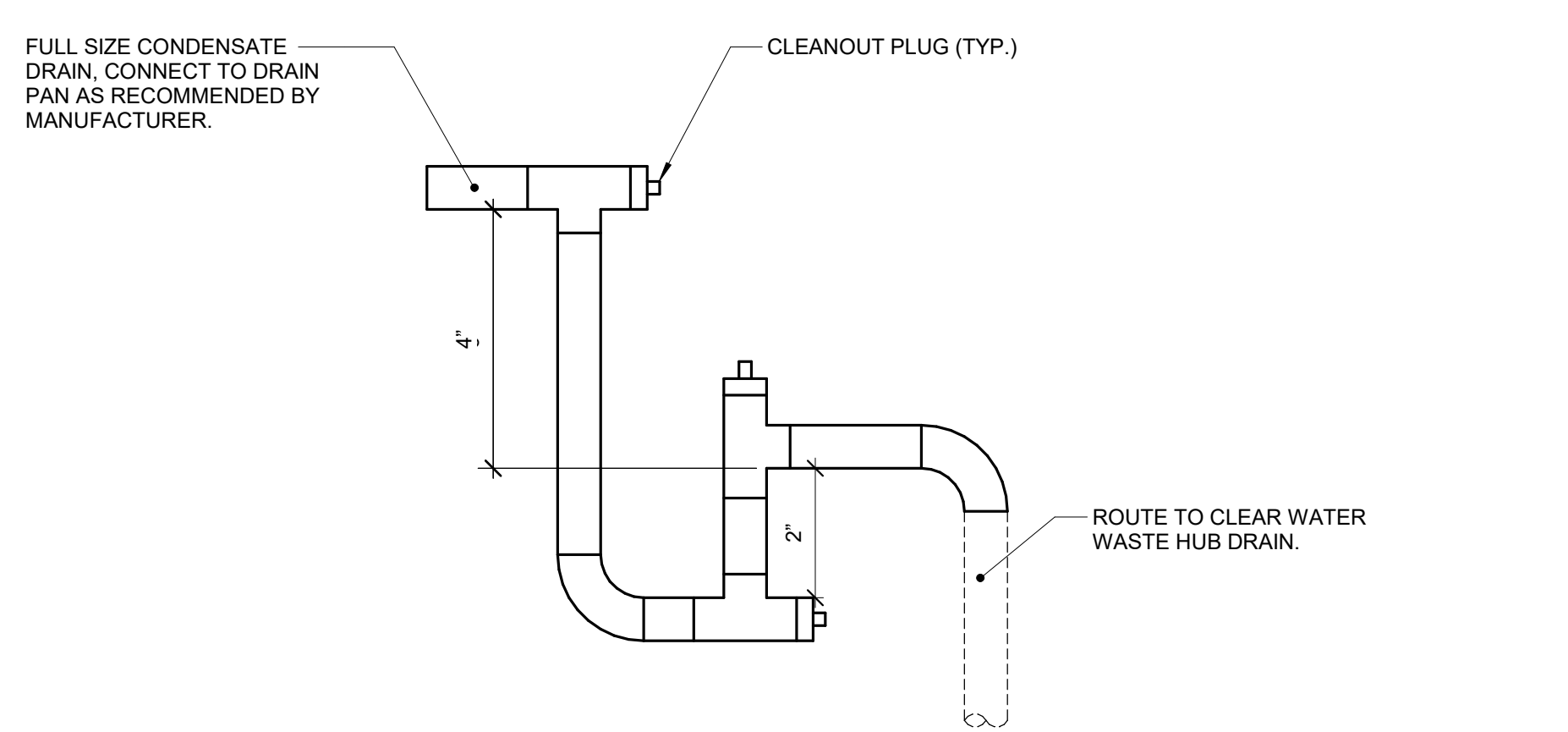


5 ELBOW CONSTRUCTION
NO SCALE

- NOTES:**
- BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - DEFAULT ELBOW SHALL BE TYPE "RE1".
 - ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.



8 FIRE DAMPER THRU FLOOR DETAIL (TYPE B)
NO SCALE



7 CONDENSATE TRAP DETAIL (DRAW-THROUGH)
NO SCALE

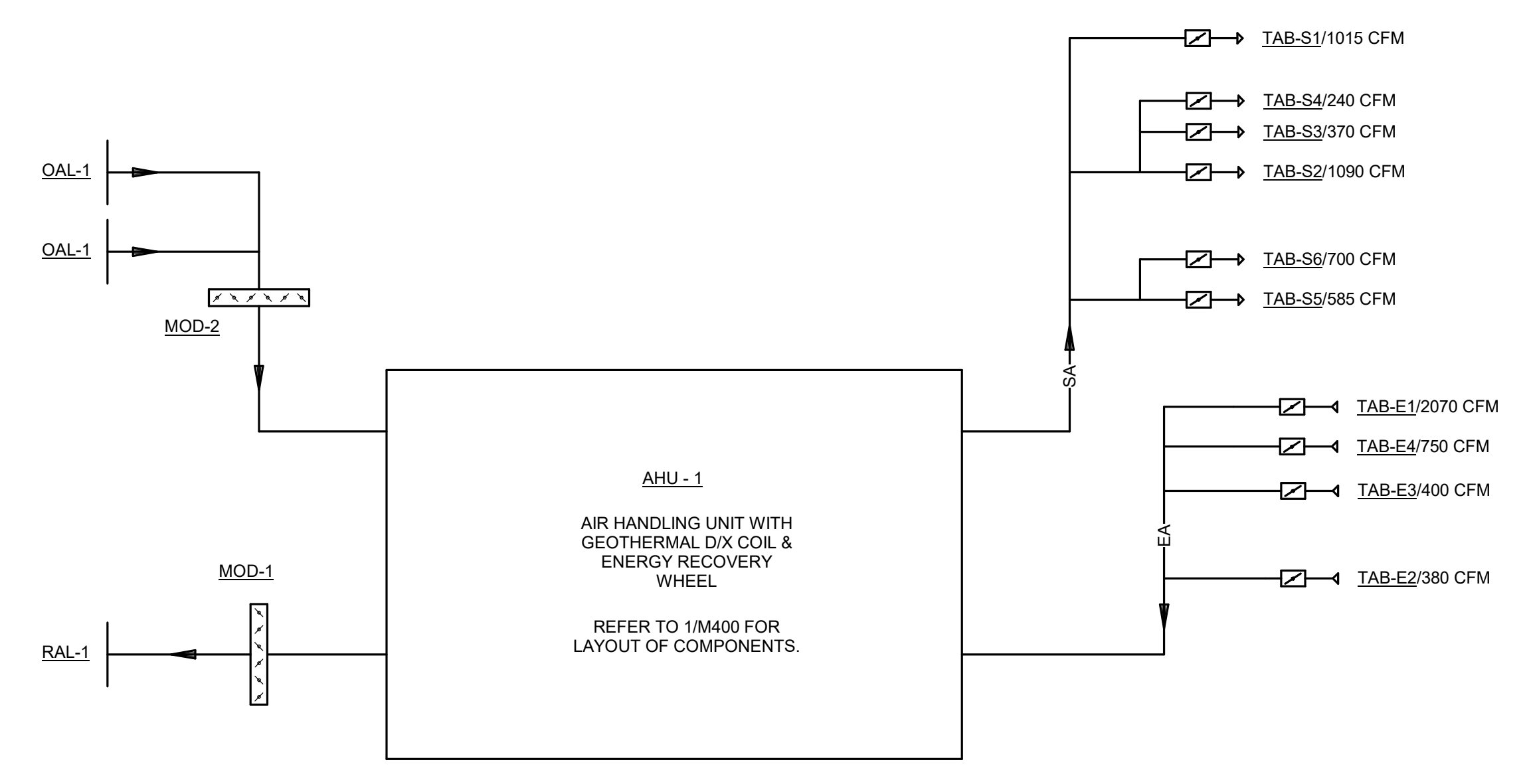
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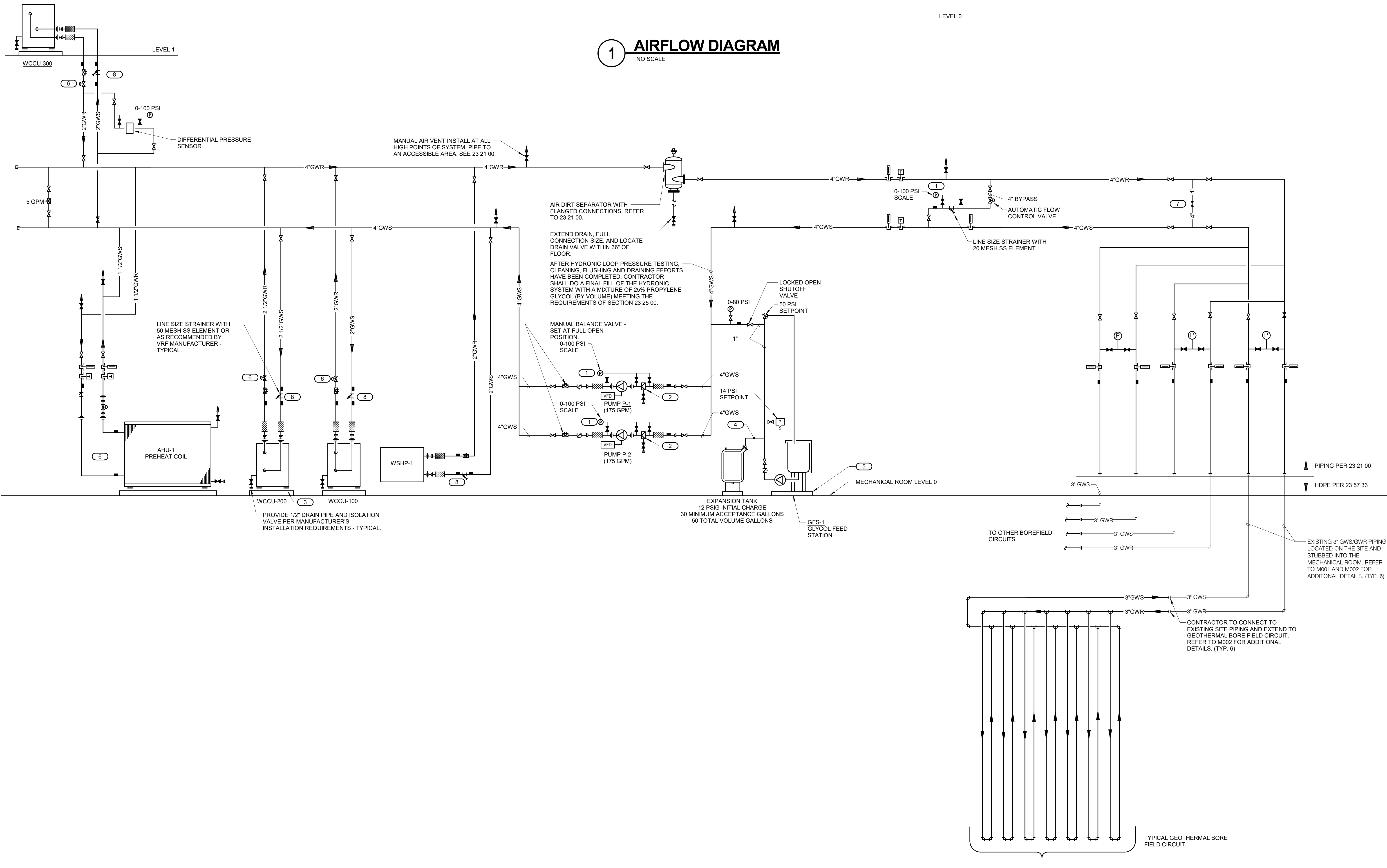
LEVEL 1



- KEYNOTES**
1. PRESSURE GAUGE WITH SNUBBER PER SECTION 23 09 13. INSTALL WITH MOUNTING ON WALL, STAND, OR VIBRATION-FREE PIPE ABOVE BRACKET PUMP FLEXIBLE CONNECTOR. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE: (a) JUST UPSTREAM OF STRAINER, (b) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER AND PUMP INLET (c) GAUGE TAPPING ON PUMP INLET FLANGE. (d) GAUGE TAPPING ON PUMP OUTLET FLANGE.
 2. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
 3. INSTALL VIBRATION ISOLATORS.
 4. SIZE PER BLADDER TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.
 5. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PADS UNDERNEATH ALL FLOOR MOUNTED MECHANICAL EQUIPMENT. CONCRETE PADS SHALL EXTEND MINIMUM 3" BEYOND ALL SIDES OF EQUIPMENT. EQUIPMENT ITEMS SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING: CHEMICAL FEEDER, EXPANSION TANK, BASE MOUNTED PUMPS, CONDENSING UNITS, GLYCOL FEED STATION, AIR HANDLER AND THE LIKE.
 6. TOC SHALL PROVIDE MODULATING CONTROL VALVE WITH 0-100 VDC SIGNAL FOR PRESSURE HEAD CONTROL OF SYSTEM. REFER TO 23 81 45 FOR ADDITIONAL DETAILS.
 7. PROVIDE LINE SIZE NORMALLY CLOSED MANUAL VALVE FOR INDEPENDENT FLUSHING OF BUILDING AND BOREFIELD. VALVE SHALL BE LOCKABLE AND LOCKED IN THE CLOSED POSITION AFTER FLUSHING.
 8. INSTALL FLOW SWITCH IF REQUIRED PER MANUFACTURER REQUIREMENTS.

1 AIRFLOW DIAGRAM
NO SCALE

LEVEL 0



2 VRF GEOTHERMAL FLOW DIAGRAM
NO SCALE

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MECHANICAL DIAGRAMS

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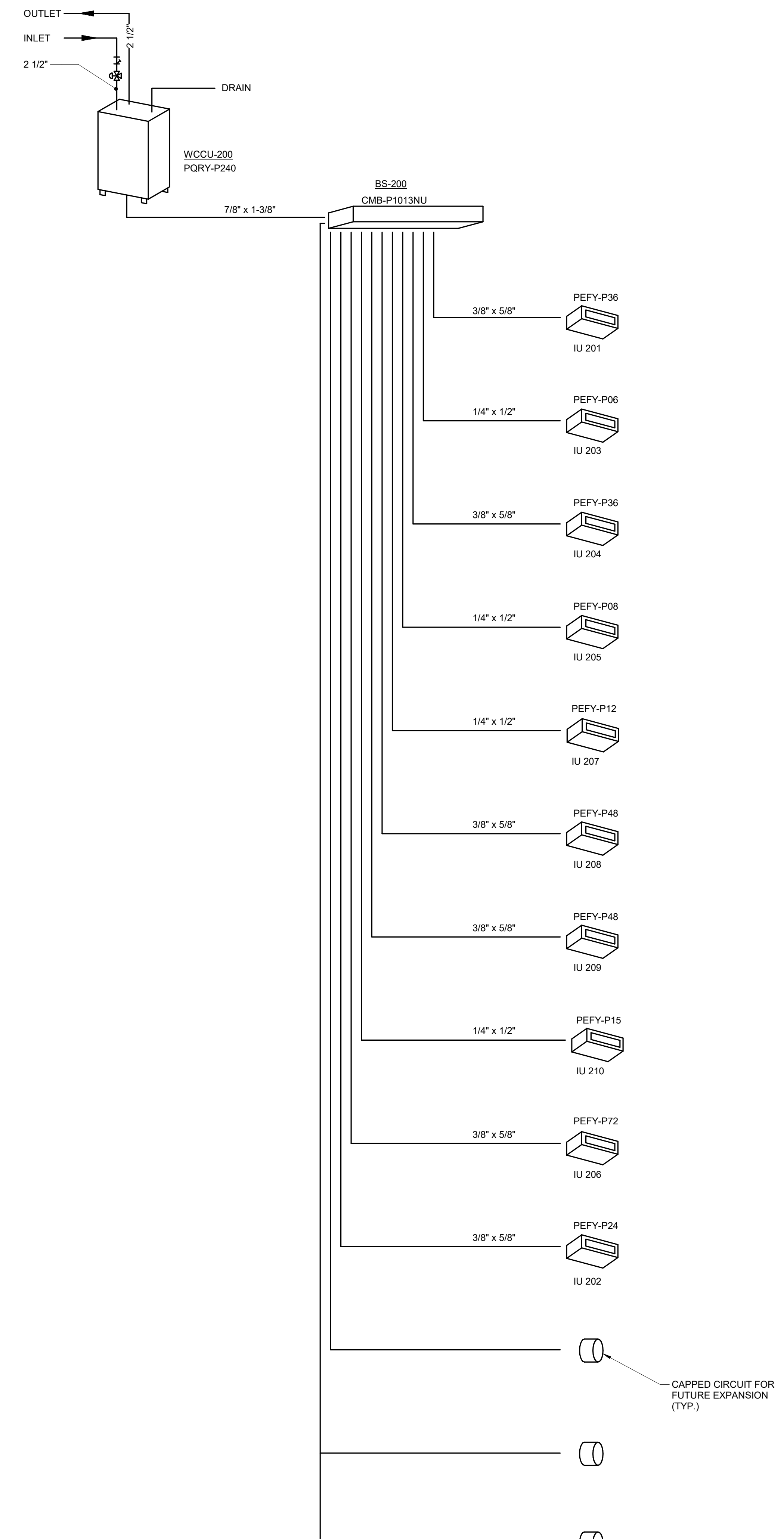
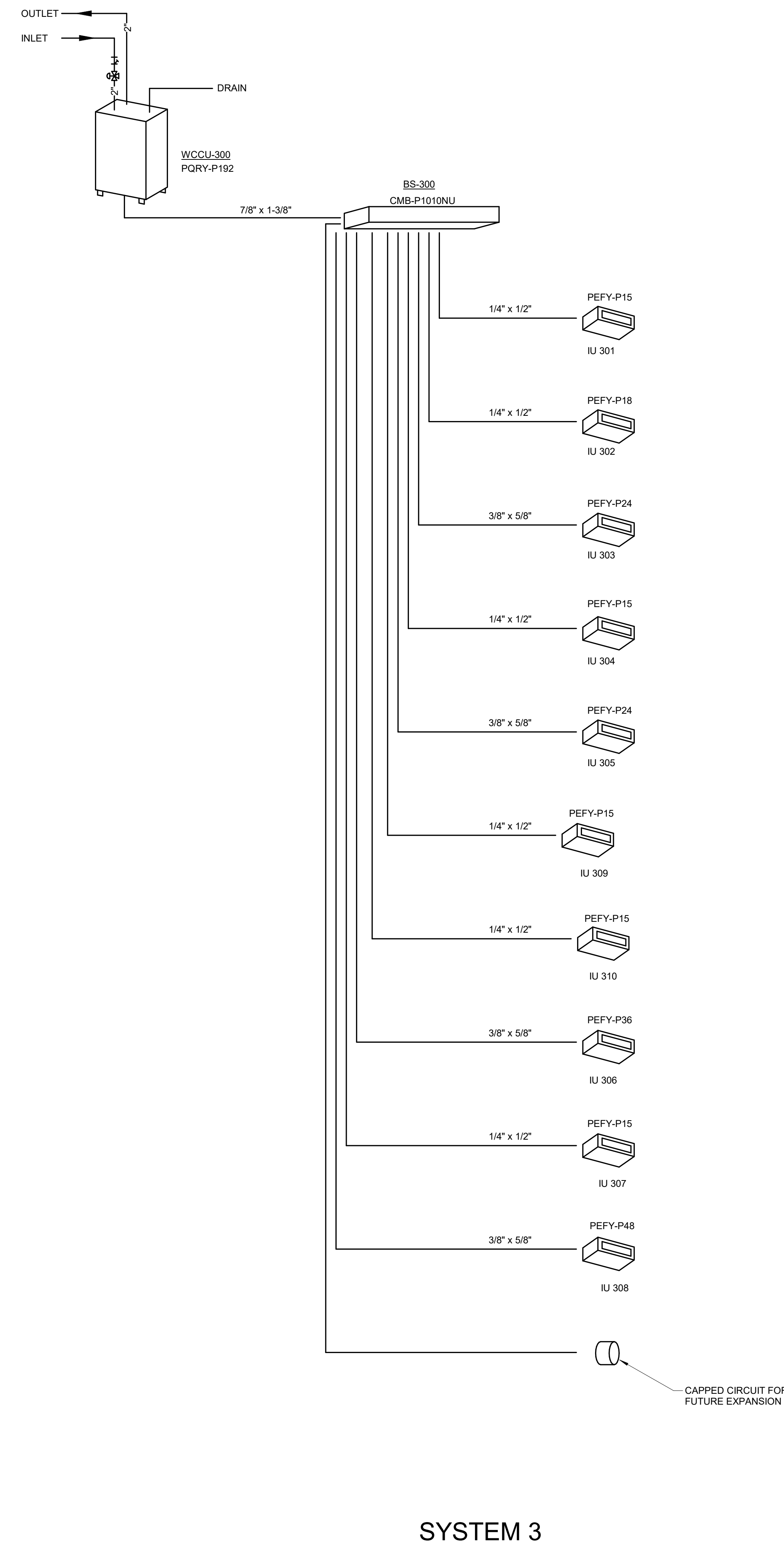
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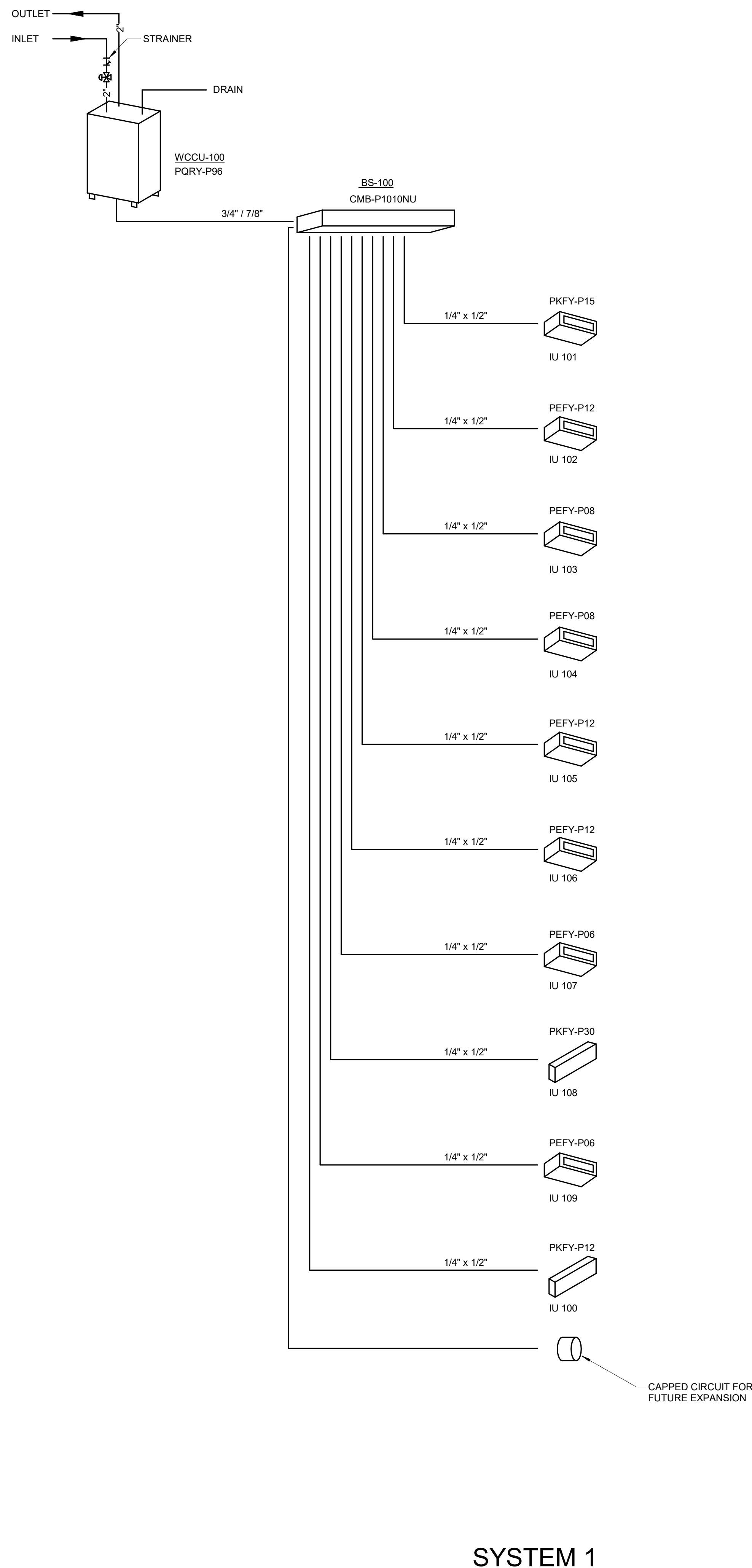
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SYSTEM 2
1 VRF FLOW DIAGRAMS

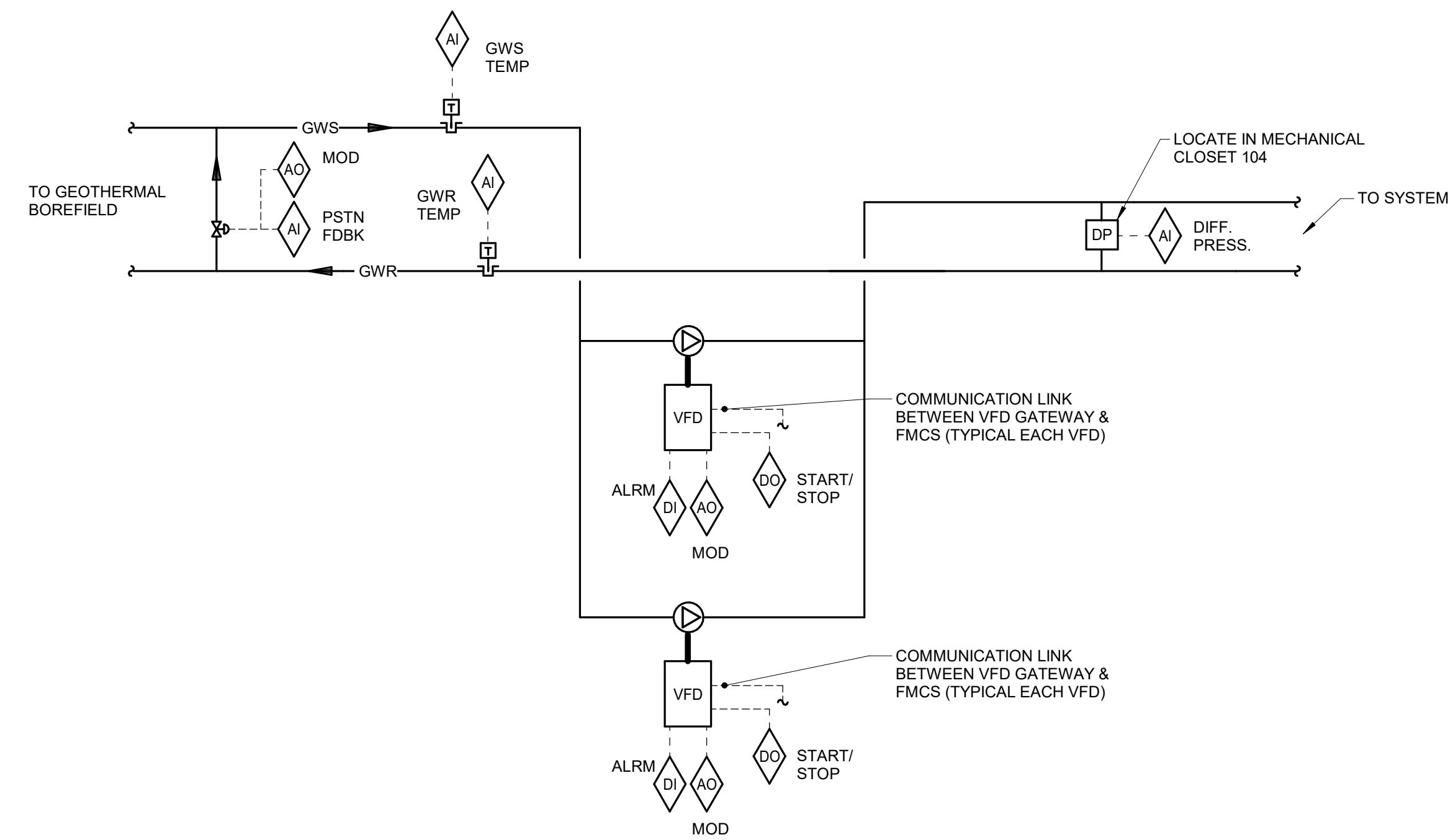
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NOTES:
1. DIAGRAMS PROVIDED FOR REFERENCE ONLY. CONFIRM FINAL PIPE SIZING, ROUTING, ACCESSORIES, QUANTITIES REQUIREMENTS WITH VRF MANUFACTURER. ZONING IS PER COMMON EXPOSURE/LOAD PROFILE. ALTERNATE CIRCUITING IS ACCEPTABLE IF EACH INDOOR UNIT IS PROVIDED WITH HEAT RECOVERY FUNCTIONALITY.



SYSTEM 1

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CONTROL SEQUENCE OF OPERATION:

BYPASS CONTROL:
 WATER SOURCE VARIABLE REFRIGERANT FLOW (VRF) CONDENSING UNITS REMOVE HEAT FROM A GEOTHERMAL WATER LOOP WHEN THEY ARE IN HEATING MODE (ADDING HEAT TO THE BUILDING) AND REJECT HEAT TO THE CIRCULATING WATER LOOP. WHEN THEY ARE IN COOLING MODE (TAKING HEAT OUT OF THE BUILDING), THE FMCS SHALL SWITCH THE GEOTHERMAL WATER LOOP OPERATING MODE BASED ON THE FOLLOWING:
 • HEATING MODE: WHEN GWR TEMP IS BELOW 45°F (ADJ.) BYPASS VALVE SHALL BE CLOSED.
 • ENTERING/EXITING HEATING MODE: WHEN GWR TEMP RISES/FALLS BETWEEN 45°F (ADJ.) AND 50°F (ADJ.) BYPASS VALVE SHALL MODULATE LINEARLY CLOSED.
 • FLOATING MODE: WHEN GWR TEMP IS BETWEEN 50°F (ADJ.) AND 75°F (ADJ.) BYPASS VALVE SHALL BE OPEN.
 • ENTERING/EXITING COOLING MODE: WHEN GWR TEMP RISES/FALLS BETWEEN 75°F (ADJ.) AND 80°F (ADJ.) BYPASS VALVE SHALL MODULATE LINEARLY CLOSED.
 • COOLING MODE: WHEN GWR TEMP IS ABOVE 80°F (ADJ.) BYPASS VALVE SHALL BE CLOSED.

PUMP CONTROL:
 LOOP CIRCULATING PUMP SHALL BE STARTED AND STOPPED THROUGH A HAND-OFF-AUTO SWITCH ON THE FACE OF THE VFD. WHEN PLACED IN THE HAND POSITION THE PUMP SHALL RUN CONTINUOUSLY. WHEN PLACED IN THE AUTO POSITION THE FMCS SHALL CONTROL PUMP OPERATION. WHEN PLACED IN THE OFF POSITION THE PUMP MOTOR SHALL BE DE-ENERGIZED.

THE LEAD PUMP SHALL RUN WHENEVER ANY OF THE FOLLOWING ARE ENABLED: HP-1, HP-2, WWHP-1. FMCS SHALL AUTOMATICALLY SWITCH THE LEAD AND LAG PUMP ON A WEEKLY BASIS TO EQUALIZE RUN TIME.

ONLY ONE GEOTHERMAL WATER PUMP SHALL RUN AT TIME. THE SECOND HEATING WATER PUMP IS FULLY REDUNDANT. FMCS SHALL AUTOMATICALLY ROTATE THE LEAD HEATING WATER PUMP ONCE/ WEEK (10:00 AM EACH TUESDAY, ADJ.) TO EQUALIZE RUN TIME BETWEEN PUMPS. PROVIDE GRAPHICAL BUTTON ON OPERATOR WORKSTATION GRAPHICAL SCREEN TO ALLOW FMCS OPERATOR TO SWITCH LEAD PUMP TO NEXT ROTATION IN THE EVENT THE CURRENT LEAD PUMP REQUIRES MAINTENANCE.

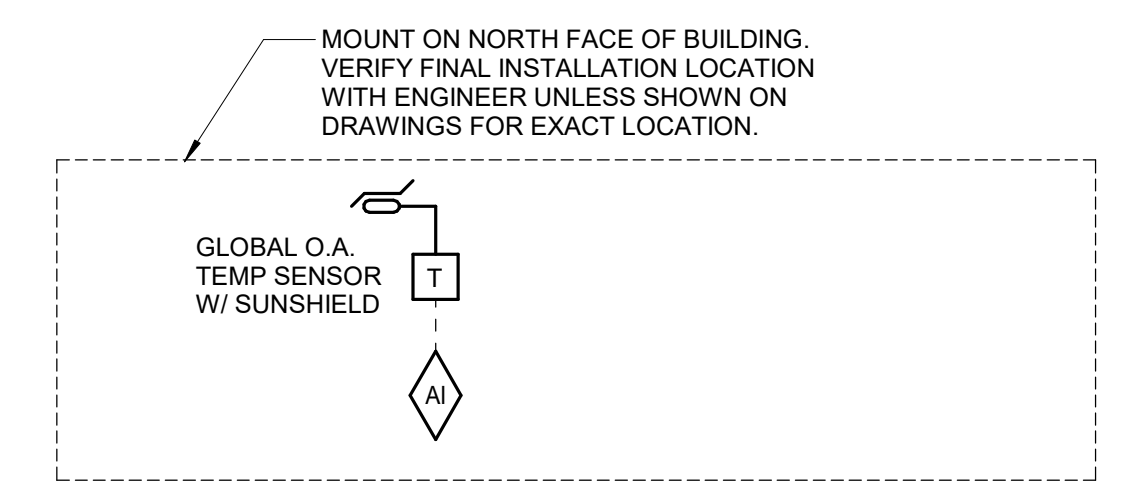
FMCS SHALL MODULATE SIGNAL TO LEAD PUMP VFD AS REQUIRED TO MAINTAIN HEATING WATER DIFFERENTIAL PRESSURE (DP) SETPOINT IN ADDITION TO MAINTAINING MINIMUM FLOW THROUGH THE WWHP-1 AS REQUIRED PER MANUFACTURER REQUIREMENTS. FMCS SHALL RESET GEOTHERMAL LOOP WATER DIFFERENTIAL PRESSURE (DP) SETPOINT AS REQUIRED TO MAINTAIN AT LEAST 10 PSI (ADJ.) PRESSURE AT PRESSURE SENSOR.

FINAL DIFFERENTIAL PRESSURE SETPOINT SHALL BE DETERMINED BY THE BALANCING CONTRACTOR.

WHEN THE LEAD PUMP IS AT MINIMUM SPEED FOR 15 MINUTES (ADJ.) AND THE WSPH AND VRF COND UNITS ARE DISABLED, THE PUMP SHALL BE DE-ENERGIZED. WHEN THE LEAD PUMP IS OFF AND THE WSPH OR ONE OF THE VRF COND. UNITS IS ENABLED, THE WSPH AND VRF COND UNITS SHALL REMAIN DE-ENERGIZED FOR 5 MINUTES (ADJ.). AFTER THE LEAD PUMP IS ENABLED, FLOW IS PROVIDED AND THE ASSOCIATED CONTROL VALVE IS OPENED.

ALARMS, INTERLOCKS & SAFETIES:
 AN ALARM SHALL BE INDICATED TO THE FMCS OPERATOR WORKSTATION IN THE EVENT ANY OF THE FOLLOWING OCCUR:
 • AN ALARM IS INDICATED AT ANY VFD.

5 GEOTHERMAL LOOP CONTROL
NO SCALE

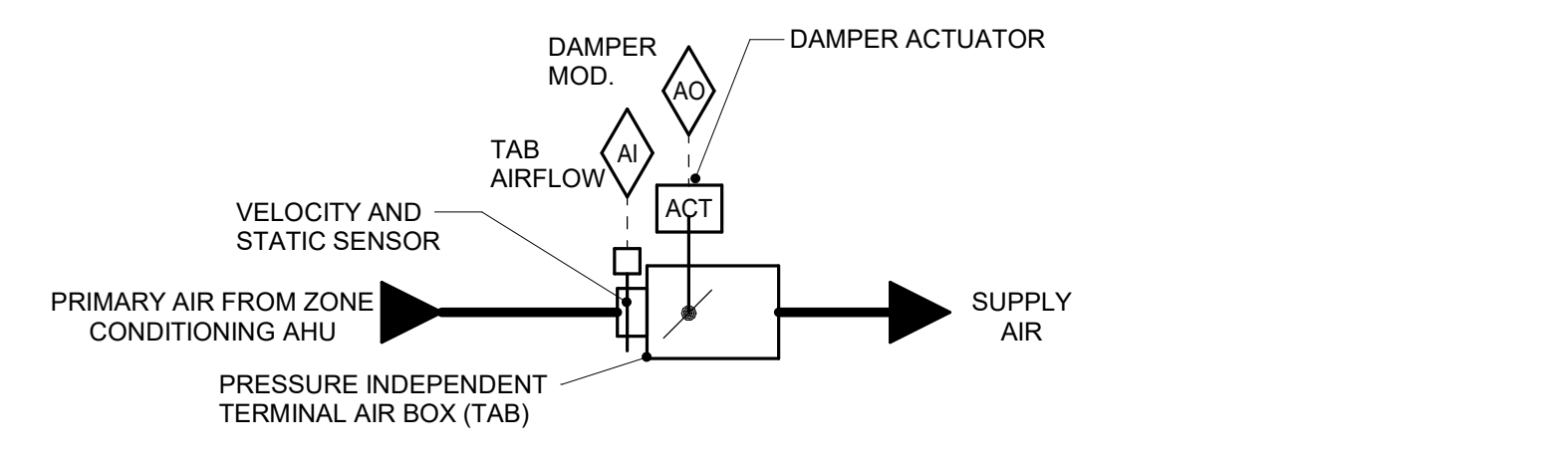


SEQUENCE OF OPERATION:
 WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 60°F (ADJ.), THE RADIANT CEILING PANEL SHALL BE DISABLED.
 WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 60°F (ADJ.), TEMPERATURE SENSOR SHALL ENABLE/DISABLE THE RADIANT CEILING PANEL TO MAINTAIN A SPACE TEMPERATURE OF 70°F (ADJ.).

ALARMS, INTERLOCKS & SAFETIES:
 SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

8 STAND ALONE RCP CONTROL
NO SCALE

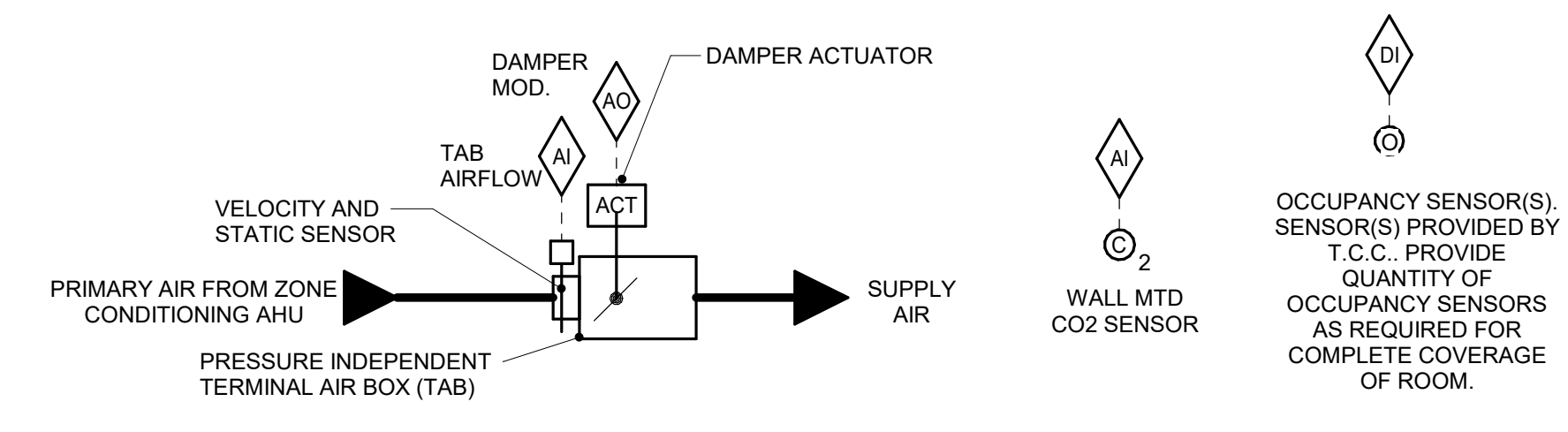
NOTES:
 1. RCP LOCATED IN ROOM 135 SHALL BE CONTROLLED BY VRF IU-102. TCC TO PROVIDE RELAY AND ROUTE CONTROL WIRING BETWEEN RADIANT CEILING PANEL AND VRF UNIT.



SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN SCHEDULED AIRFLOW DURING OCCUPIED HOURS.
- FMCS TAB CONTROLLER SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

3 TAB CONTROL - VENTILATION
NO SCALE



SEQUENCE OF OPERATION:

OCCUPANCY SENSOR CONTROL:

- PRIMARY OCCUPANCY SHALL BE SCHEDULED THROUGH THE BUILDING AUTOMATION SYSTEM (FMCS). REFER TO SPECIFICATIONS.
- IF FMCS IS SCHEDULED OCCUPIED AND SENSOR INDICATES OCCUPANCY, THEN THE TAB DAMPER SHALL CONTROL PER CO2 SENSOR CONTROL LISTED BELOW.
- IF FMCS IS SCHEDULED UNOCCUPIED AND THE SENSOR INDICATES UNOCCUPIED, THEN THE TAB DAMPER SHALL CLOSE.
- IF THE FMCS IS SCHEDULED UNOCCUPIED AND THE SENSOR INDICATES OCCUPANCY, THEN THE TAB DAMPER SHALL CLOSE.
- ALL PROGRAMMING FOR THE ABOVE SHALL RESIDE IN THE TERMINAL UNIT CONTROLLER, AND SUPERVISORY CONTROLLER SHALL NOT BE REQUIRED TO RESET ANY FLOW OR TEMPERATURE SETPOINTS BASED ON OCCUPANCY SENSOR STATUS.
- FMCS TAB CONTROLLER SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

CO2 SENSOR CONTROL:

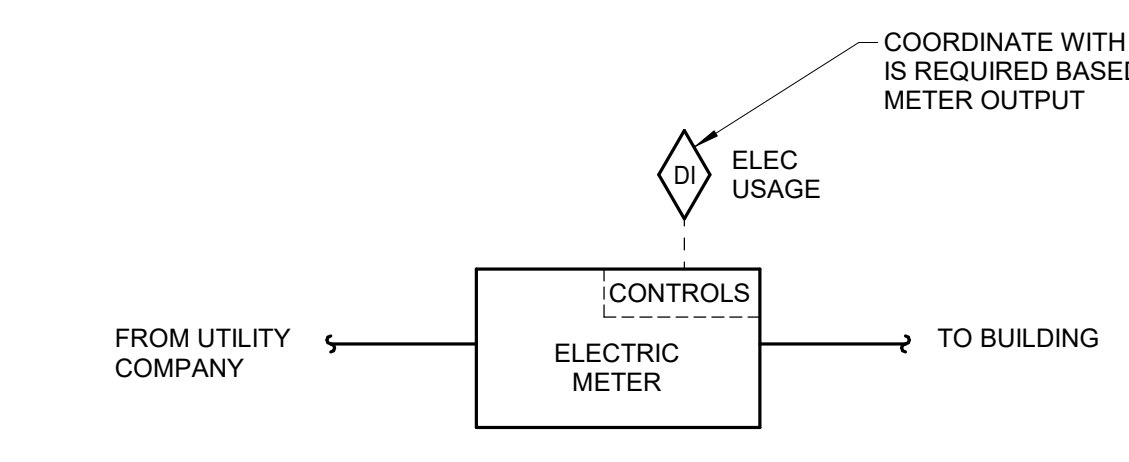
- CO2 LEVELS SHALL ALTER SEQUENCES ONLY DURING SCHEDULED OCCUPIED HOURS.
- NOMINAL/ SETPOINT CO2 LEVEL IS 1000 (ADJ.) PPM. ASSUMED AMBIENT CO2 LEVEL IS 400 (ADJ.) PPM.
- WHEN THE ZONE CO2 SENSOR READING INDICATES THAT THE ZONE CO2 CONCENTRATION IS EQUAL TO OR LESS THAN THE AMBIENT CONCENTRATION OF 400 PPM (ADJ.), THE DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM SCHEDULED AIRFLOW RATE.
- IF FMCS IS SCHEDULED UNOCCUPIED AND THE SENSOR INDICATES UNOCCUPIED, THEN THE TAB DAMPER SHALL CLOSE.
- WHEN THE ZONE CO2 CONCENTRATION IS EQUAL TO OR HIGHER THAN THE STEADY STATE CO2 SETPOINT OF 1000 PPM (ADJ.), THE DAMPER SHALL MODULATE TO MAINTAIN THE MAXIMUM SCHEDULED AIRFLOW RATE.
- WHEN THE ZONE CO2 CONCENTRATION IS BETWEEN AMBIENT AND STEADY STATE CO2 SETPOINT CONCENTRATIONS, THE DAMPER SHALL MODULATE TO PROVIDE AN AIRFLOW RATE THAT IS LINEARLY PROPORTIONAL BETWEEN THE AMBIENT (400 PPM ADJ.) AND STEADY STATE SETPOINTS (1000 PPM ADJ.).

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE CO2 LEVEL EXCEEDS 1100 (ADJ.) PPM.

2 TAB CONTROL - DEMAND CONTROL VENTILATION
NO SCALE

6 GLOBAL REFERENCE POINTS
NO SCALE



SEQUENCE OF OPERATION:

GENERAL:
 THE UTILITIES ARE METERED THROUGH THE DDC VIA THE FMCS.

UTILITY METERING CONTROL:

- ELECTRIC METERING:
 THE TCC SHALL CONNECT THE FMCS TO THE ELECTRICAL METER FOR ELECTRICAL USAGE INFORMATION.

4 BUILDING UTILITY MONITORING
NO SCALE

TEMPERATURE CONTROL GENERAL NOTES:

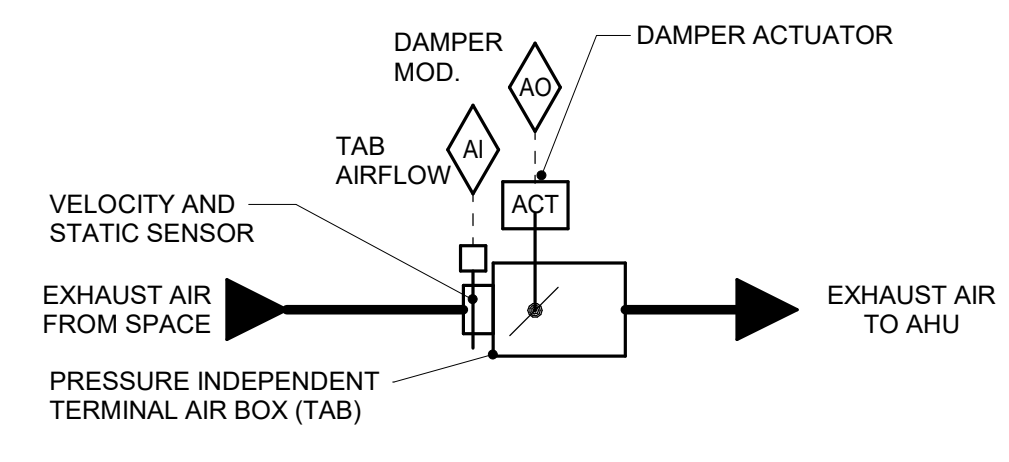
- REFER TO EQUIPMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DIAGRAMS APPLY TO WHICH ITEMS OF EQUIPMENT. REFER TO TERMINAL AIR BOX (TAB) SCHEDULES FOR TEMP SENSOR REQUIREMENTS FOR EACH TAB.
- EACH D.I., D.O., A.I. AND A.O. POINT SHOWN FOR ALL CONTROL DIAGRAMS SHALL BE DISCRETE FROM ALL OTHER POINTS EXCEPT AS SPECIFICALLY NOTED.
- ALL WIRING, CONTROL COMPONENTS, DEVICES AND PROGRAMMING SHOWN ON THESE CONTROL DRAWINGS SHALL BE PROVIDED BY THE TCC UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL ACTUATORS SHALL BE OF THE ELECTRICAL TYPE FOR THIS PROJECT (UNLESS AN ACTUATOR IS SPECIFICALLY INDICATED ON THE DRAWINGS OR SPECIFICATIONS TO BE PNEUMATIC).
- ALL MODULATING DAMPER AND VALVE ACTUATORS SHOWN WITH POSITION FEEDBACK SHALL HAVE THE VALVE POSITION DISPLAYED ON GRAPHICAL SCREEN ADJACENT TO THE DAMPER/VALVE COMMAND SIGNAL. DISPLAYED VALVE POSITION SHALL BE FROM THE FEEDBACK DEVICE/CIRCUIT (OUTPUT SIGNAL FROM THE FMCS TO THE ACTUATOR IS NOT ACCEPTABLE).
- MODULATING SIGNALS SHALL BE DISPLAYED AS % OPEN (SIGNALS DISPLAYED AS % CLOSED ARE NOT ACCEPTABLE).
- PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DUCT STATIC PRESSURE SHALL BE WIRED DIRECTLY TO THE CONTROLLER WHICH MODULATES FAN SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
- PRESSURE TRANSMITTERS WHOSE SIGNAL IS UTILIZED FOR MAINTAINING DIFFERENTIAL PRESSURE OF ANY PUMPED WATER SYSTEM (E.G. GLYCOL WATER AND THE LIKE) SHALL BE WIRED DIRECTLY TO THE CONTROLLER WHICH MODULATES PUMP SPEED. SIGNAL SHALL BE COMPLETELY INDEPENDENT OF THE FMCS NETWORK.
- ALL CONTROL COMPONENTS SUCH AS RELAYS, SWITCHES, DDC CONTROLLERS, ETC. SHALL BE MOUNTED IN STEEL ENCLOSURES WITH STEEL MOUNTING BACKPLATES PER SPECIFICATION 23 09 00.
- EACH CONTROL PANEL SHALL HAVE A LAMINATED COPY OF THE APPLICABLE SEQUENCE OF OPERATION AND CONTROL DIAGRAM INDICATING THE POINTS, COMPONENTS AND OPERATION OF EQUIPMENT ASSOCIATED WITH EACH PANEL. REFER TO SECTION 23 09 00 FOR ADDITIONAL REQUIREMENTS.
- TCC SHALL HAVE THE CONTROL SIGNAL FROM THE ASSOCIATED AIR HANDLING UNIT TO CONTROL THE OPERATION OF SMOKE DAMPERS IN ACCORDANCE WITH SEQUENCE OF OPERATION. TCC SHALL PROVIDE ALL WIRING, CONDUIT, TRANSFORMERS, FUSING AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
- TCC SHALL EXTEND CONTROL SIGNAL FROM ADDRESSABLE RELAY DEVICE SERVING EACH AIR HANDLING UNIT. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS. TCC SHALL EXTEND AND TERMINATE WIRING AS REQUIRED FOR EQUIPMENT SHUTTDOWN.
- ELEMENT LENGTHS FOR BOTH MIXED AIR TEMP SENSORS AND LOW LIMIT TEMP SWITCHES SHALL BE MINIMUM 1 LINEAR FOOT PER SQUARE FOOT OF COIL SURFACE AREA. PROVIDE MULTIPLE SENSORS AND SWITCHES AS NEEDED TO ACHIEVE REQUIRED ELEMENT LENGTHS. LOCATE RESET SWITCHES MAX. 6" ABOVE ADJACENT STANDING SURFACE (I.E. ROOF, PLATFORM OR FLOOR) SO THE RESET SWITCH CAN BE CYCLED WITHOUT THE NEED FOR A LADDER.
- CONTROL DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED CONTROL DEVICES AND COMPONENTS. REFER TO FLOOR PLANS, FLOW DIAGRAMS AND DETAILS FOR ADDITIONAL CONTROL DEVICES, COMPONENTS AND REQUIREMENTS NOT SHOWN ON THESE CONTROL DRAWINGS.
- TCC SHALL PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES AS REQUIRED FOR EQUIPMENT TO BE CONTROLLED AS DESCRIBED IN THE SEQUENCE OF OPERATION REGARDLESS OF WHETHER ALL CONTROL COMPONENTS OR POINTS ARE SHOWN IN THE ASSOCIATED CONTROL DIAGRAM.

CONTROL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	GEOTHERMAL WATER RETURN
	GEOTHERMAL WATER SUPPLY
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE
	THERMOSTAT
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
	TEMPERATURE SENSOR (DUCT MOUNTED)
	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
	AVERAGING TEMPERATURE SENSOR
	LOW LIMIT TEMPERATURE SWITCH
	PROBE TEMPERATURE SENSOR
	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	DIFFERENTIAL PRESSURE SENSOR
	PRESSURE SENSOR (DUCT MOUNTED)
	STATIC SWITCH
	ANALOG INPUT
	ANALOG OUTPUT
	FLOW METER
	FLOW SWITCH
	FLOW SENSOR
	AIR FLOW SWITCH
	DUCT FLOW METER
	DUCT SMOKE DETECTOR
	HEATING/ COOLING COIL
	AIR BLENDER
	MANUAL MOTOR STARTER W/THERMAL OVERLOAD
	FAN
	MOTOR
	CONTACTOR
	PUMP
	DIGITAL INPUT
	DIGITAL OUTPUT
	HUMIDITY SENSOR
	HUMIDITY SENSOR (DUCT MOUNTED)
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR (DUCT MOUNTED)
	CARBON DIOXIDE SENSOR (DUCT MOUNTED)
	FILTER
	TERMINAL AIR BOX
	OCCUPANCY SENSOR
	ACTUATOR
	CURRENT SWITCH
	NORMALLY CLOSED CONTACT
	NORMALLY OPEN CONTACT
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER

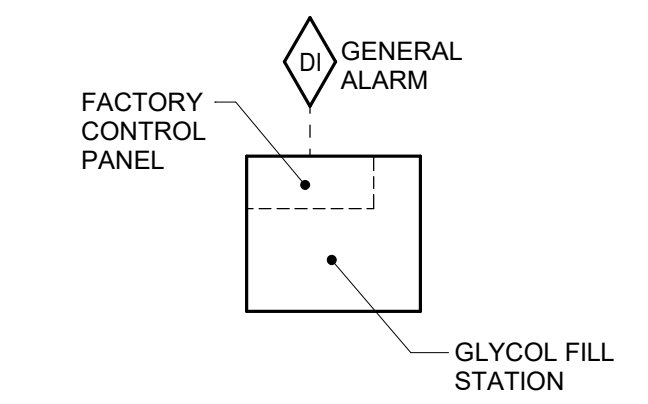
1 TAB CONTROL EXHAUST - CONSTANT
NO SCALE



SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN SCHEDULED AIRFLOW RATE DURING OCCUPIED HOURS.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE EXHAUST DUCT DIFFERENTIAL STATIC PRESSURE.

7 GLYCOL FILL STATION CONTROL DIAGRAM
NO SCALE



SEQUENCE OF OPERATION:
 THE GLYCOL FEED SYSTEM CONTROLLER SHALL OPERATE THE SYSTEM TO MAINTAIN THE SPECIFIED PRESSURE IN THE WATER SYSTEM.

ALARMS, INTERLOCKS, AND SAFETIES:
 AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR INTERFACE IF THE GLYCOL CONTROLLER INDICATES AN ALARM.

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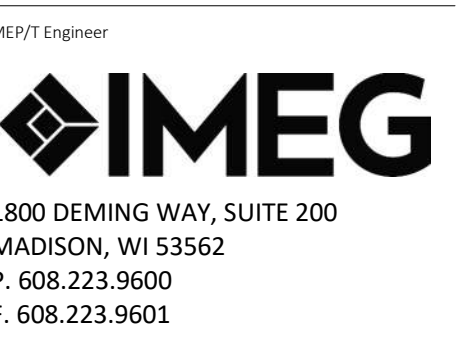
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 Bid Documents **11/30/2018**

Sheet Name: **CONTROL DIAGRAMS - MECHANICAL**
 Sheet Number: **M550**



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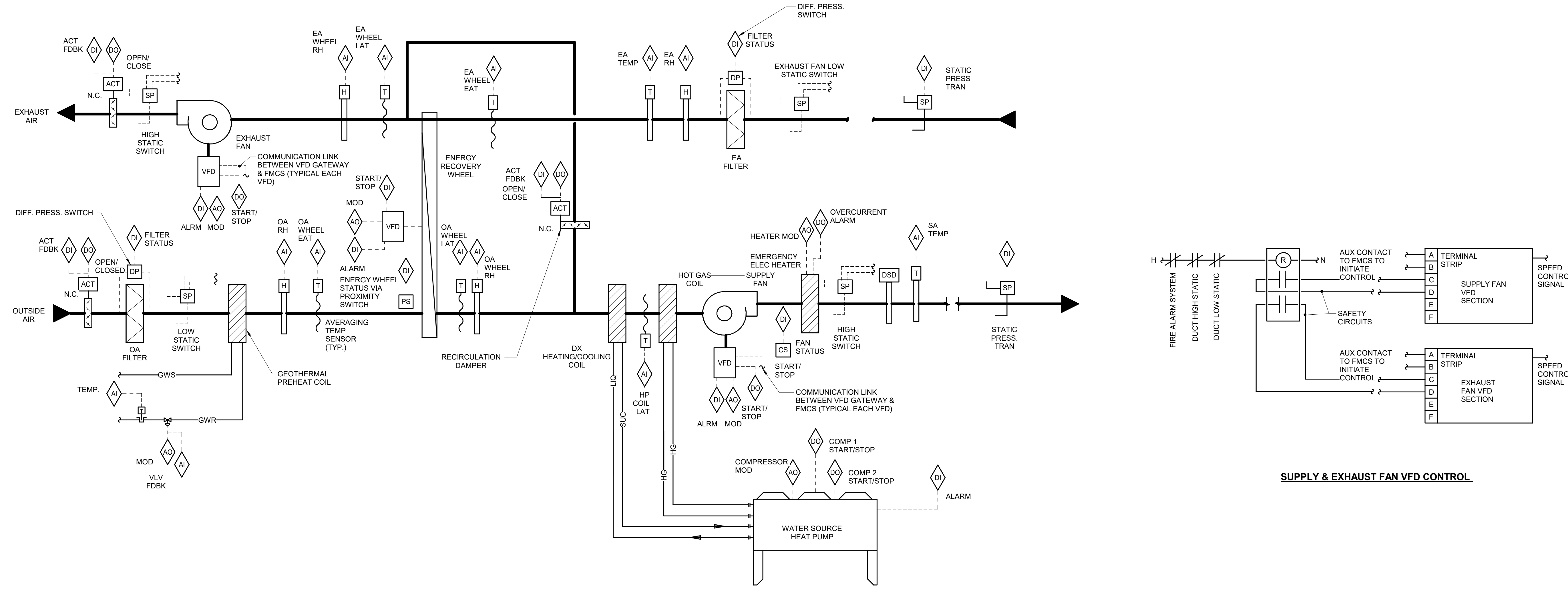
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Sheet Number: M551



SUPPLY & EXHAUST FAN VFD CONTROL

SEQUENCE OF OPERATION:

WHEN AHU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:

- THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL OPEN AFTER A 30 SECOND (ADJ.) DELAY TO ALLOW STARTUP OF AHU-1.
- AFTER OUTSIDE AIR AND EXHAUST AIR DAMPERS ARE PROVEN OPEN THE SUPPLY FAN SHALL BE ENABLED TO RUN.

SUPPLY FAN OPERATION:

FMCS SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER NEAR THE END OF THE CRITICAL DUCT BRANCH.

EXHAUST FAN OPERATION:

EXHAUST FAN SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. FMCS SHALL MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER NEAR THE END OF THE CRITICAL DUCT BRANCH.

DUCT STATIC PRESSURE RESET OPERATION:

FMCS SHALL RESET DUCT STATIC PRESSURE SETPOINT BELOW THE MAXIMUM SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE TAB DAMPER (SUPPLY OR EXHAUST DEPENDING ON SYSTEM) 90°F (ADJ.) OPEN. FMCS SHALL MONITOR ALL TERMINAL AIR BOX POSITIONS TO RESET THE DUCT DIFFERENTIAL STATIC PRESSURE FOR BOTH SUPPLY AND EXHAUST SYSTEMS.

GLYCOL WATER PRE-HEAT COIL CONTROL:

THE GLYCOL WATER PRE-HEAT COIL SHALL BE USED AS A FREE PRE-HEATER PRIOR TO OUTSIDE AIR ENTERING THE ENERGY RECOVERY WHEEL. THE GLYCOL WATER VALVE SHALL MODULATE TO A MINIMUM OF 10% (ADJ.) OPEN WHENEVER OUTSIDE AIR CONDITIONS ARE LESS THAN 30°F (ADJ.). THE GLYCOL WATER VALVE SHALL MODULATE TO MAINTAIN A COIL LEAVING WATER TEMPERATURE OF 23°F (ADJ.) WHEN OUTSIDE AIR TEMPERATURES ARE BETWEEN 30°F (ADJ.) AND 10°F (ADJ.). THE GLYCOL WATER VALVE SHALL MODULATE TO 100% OPEN WHEN OUTSIDE AIR TEMPERATURES ARE LESS THAN 10°F (ADJ.). IF OA WHEEL EAT SENSES AIR TEMPERATURES BELOW 10°F (ADJ.) GLYCOL WATER CONTROL VALVE SHALL BE OVERRIDDEN TO 100% OPEN REGARDLESS OF GLOBAL OUTSIDE AIR TEMPERATURE MEASUREMENT.

IF VALVE FEEDBACK DOES NOT MATCH CONTROL OUTPUT WHEN OUTSIDE AIR TEMPERATURES ARE BELOW 10°F (ADJ.) DOAU SHALL SHUT DOWN AND ALARM TO OPERATOR INTERFACE DUE TO POTENTIAL FREEZE CONCERN ON GLYCOL COIL. IF GLYCOL WATER PUMPS ARE NOT OPERATING PER SEQUENCE ON M550 WHEN OUTSIDE AIR TEMPERATURES ARE BELOW 10°F (ADJ.) THAN DOAU SHALL SHUT DOWN AND ALARM TO OPERATOR INTERFACE.

ENERGY RECOVERY WHEEL CONTROL:

ENERGY RECOVERY WHEEL DISCHARGE AIR TEMPERATURE CONTROL: THE ENERGY RECOVERY WHEEL SHALL BE USED AS THE FIRST STAGE OF HEATING AND COOLING AND SHALL BE SEQUENCED WITH THE DIGITAL SCROLL/DX COIL TO MAINTAIN THE DISCHARGE TEMPERATURE SETPOINT. THE VFD SPEED SHALL BE MODULATED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT SUBJECT TO THE FROST CONTROL OVERRIDE. THE ENERGY RECOVERY WHEEL SHALL BE INDEXED OFF WHENEVER THE OUTDOOR AIR TEMPERATURE IS LESS THAN THE DISCHARGE TEMPERATURE SETPOINT IS LESS THAN THE OUTDOOR AIR TEMPERATURE.

DEFROST CONTROL: OVERRIDE THE HEATING WHEEL SPEED CONTROL TO LIMIT THE LEAVING EXHAUST AIR TEMPERATURE FROM THE WHEEL TO 15°F (ADJ.) AT A RETURN AIR RELATIVE HUMIDITY OF 30% RH AND RESET TO 5°F (ADJ.) AT 20% RH.

PURGE CONTROL: WHEN THE HEAT WHEEL IS DEACTIVATED, THE WHEEL SHALL RUN FOR 20 SECONDS AT MINIMUM SPEED EVERY 30 MINUTES TO KEEP THE ROTOR SURFACE CLEAN. BYPASS DAMPERS SHALL REMAIN OPEN DURING PURGE SEQUENCE.

DISCHARGE AIR TEMPERATURE AND DEHUMIDIFICATION CONTROL:

INSTALL A TEMPERATURE SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF THE SUPPLY FAN AND ALSO A TEMPERATURE SENSOR DOWNSTREAM OF THE HEAT PUMP HEATING/COOLING COIL.

DISCHARGE AIR TEMPERATURE SETPOINT: DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET LINEARLY PER FOLLOWING SCHEDULE:

- DISCHARGE AIR SETPOINT SHALL BE 63°F (ADJ.) WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 80°F (ADJ.)
- DISCHARGE AIR SETPOINT SHALL BE 70°F (ADJ.) WHEN OUTSIDE AIR TEMPERATURE IS BELOW 40°F (ADJ.)
- MAXIMUM HUMIDITY SETPOINT 55% (ADJ.)

THE ENERGY RECOVERY WHEEL AND WATER SOURCE HEAT PUMP (WSPH-1) DX COIL SHALL OPERATE IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. WHEN IN COOLING MODE IF THE EXHAUST AIR RELATIVE HUMIDITY UPSTREAM OF ENERGY WHEEL OR ANY SPACE HUMIDITY SENSORS OF ROOMA 114, 115, OR 123 EXCEEDS 55% RH (ADJ.) SETPOINT THE WSPH MAIN COIL COMPRESSORS SHALL MODULATE TO MAINTAIN HUMIDITY SETPOINT BY RESETTING THE COOLING COIL DISCHARGE AIR SETPOINT TO 55°F (ADJ.) FOR ONE HOUR (ADJ.) BEFORE RELEASE BACK TO NORMAL CONTROL. THE HOT GAS REHEAT COIL SHALL MODULATE TO MAINTAIN A SUPPLY DUCT DISCHARGE AIR TEMPERATURE SETPOINT. WHEN IN HEATING MODE THE WSPH COMPRESSOR SHALL MODULATE TO MAINTAIN SUPPLY DUCT DISCHARGE TEMPERATURE SETPOINT.

EMERGENCY ELECTRIC HEATING COIL SHALL BE THE FINAL STAGE OF HEAT AND ONLY USED TO ACHIEVE DISCHARGE AIR TEMPERATURE SETPOINT IF THE WSPH IS AT MAXIMUM HEAT OUTPUT AND DISCHARGE AIR TEMPERATURE IS NOT MAINTAINING SETPOINT. FMCS SHALL MODULATE SIGNAL TO ELECTRIC HEAT CONTROL PANEL TO MODULATE SCR CONTROLLED ELECTRIC HEATER. IF EMERGENCY ELECTRIC HEAT IS IN OPERATION.

THE DDC SYSTEM SHALL ALARM TO THE OPERATOR INTERFACE WHEN THE DISCHARGE AIR TEMPERATURE IS 10°F (ADJ.) FROM SETPOINT OR WHEN THE EXHAUST AIR RELATIVE HUMIDITY IS 10% FROM SETPOINT (ADJ.).

ALARMS, INTERLOCKS, AND SAFETIES:

WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, AHU SHALL BE SHUTDOWN.

THE FOLLOWING CONDITIONS SHALL SHUTDOWN THE AHU AND SHALL INDICATE AN ALARM CONDITION AT THE FMCS WORKSTATION:

- LOW STATIC PRESSURE SWITCH INDICATES EXHAUST DUCT PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS.
- HIGH STATIC PRESSURE SWITCH INDICATES EXHAUST DUCT PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- LOW STATIC PRESSURE SWITCH INDICATES OUTSIDE AIR SECTION PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS OF THE OUTSIDE AIR DUCTWORK.
- HIGH STATIC PRESSURE SWITCH INDICATES SUPPLY DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- ANY ALARM CONDITION AS NOTED IN GLYCOL WATER PRE-HEAT COIL CONTROL SEQUENCE.

THE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE FMCS, HOWEVER AHU SHALL CONTINUE TO OPERATE:

- AN ALARM IS INDICATED AT ANY SUPPLY FAN VFD OR EXHAUST FAN VFD.
- DIFFERENTIAL PRESSURE SWITCH ACROSS ANY MERV 8 FILTER BANK EXCEEDS 0.55 INCHES W.G. (ADJ.) OF IT ANY MERV 13 FILTER BANK EXCEEDS 0.6 INCHES W.G. (ADJ.)
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT FOR 10 MINUTES (ADJ.).
- THE HEAT WHEEL COMES WITH FACTORY EQUIPPED WITH A PROXIMITY SWITCH THAT SHALL PROVIDE A DRY CONTACT IN PUT TO THE DDC SYSTEM. IF THE WHEEL IS INDEXED TO RUN AND TWO SWITCH CLOSURES ARE NOT SEEN WITH 10 MINUTES, AN ALARM WILL BE SENT THROUGH THE DDC SYSTEM SIGNALING A WHEEL ROTATION FAILURE.
- SEND AN ALARM TO OPERATOR INTERFACE IS SUM OF SUPPLY AIR TERMINAL BOXES FALLS BELOW 10% OF SET POINT FOR MORE THAN 5 MINUTES (ADJ.)
- EMERGENCY ELECTRIC HEAT IS CALLED FOR OPERATION AND ELECTRIC HEAT OVERCURRENT ALARM CONTACT ON ELECTRIC HEATER CONTROL PANEL IS INDICATING AN ALARM CONDITION.

IN THE EVENT SUPPLY FAN IS NOT RUNNING (AS INDICATED BY THE VFD MONITORING) EXHAUST AIR FAN SHALL BE DE-ENERGIZED.

WHENEVER AHU IS SHUTDOWN, THE FOLLOWING SHALL OCCUR:

- THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL CLOSE.
- CONDENSING UNIT SHALL BE DENERGIZED.
- SUPPLY FAN AND EXHAUST FAN VFDs SHALL BE DE-ENERGIZED.
- ENERGY RECOVERY WHEEL SHALL STOP.

UNOCCUPIED MODE:

UNIT SHALL BE DISABLED DURING UNOCCUPIED HOURS. OCCUPIED/UNOCCUPIED HOURS SHALL BE COORDINATED WITH OWNER.

RECIRCULATION MODE:

UNIT CONTAINS A RECIRCULATION DAMPER THAT IS MEANT FOR EMERGENCY HEATING/COOLING PURPOSES. DURING RECIRCULATION MODE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL BE CLOSED AND RECIRCULATION DAMPER SHALL BE OPEN. DURING ALL OTHER TIMES RECIRCULATION DAMPER SHALL BE CLOSED. DURING RECIRCULATION MODE SUPPLY FAN, HEATING/COOLING COIL, HOT GAS COIL, AND EMERGENCY HEATING ELECTRIC COIL SHALL OPERATE UNDER NORMAL CONDITIONS. EXHAUST FAN AND ENERGY WHEEL SHALL BE DISABLED. ALL TERMINAL AIR BOXES SHALL CONTROL TO MAXIMUM SET POINTS. DISCHARGE AIR TEMPERATURE SHALL BE RESET BETWEEN 50°F AND 110°F AS REQUIRED TO MAINTAIN AN EXHAUST AIR TEMPERATURE OF 70°F IN HEATING AND 74°F IN COOLING. RECIRCULATION MODE EMERGENCY OPERATION SHALL HAVE A SELECTABLE ENABLE/DISABLE POINT THROUGH THE OPERATOR INTERFACE AND THROUGH A TOGGLE IN THE DDC CONTROL PANEL.

GRAPHICAL DISPLAY:

DISPLAY THE GLOBAL OA TEMPERATURE ON AHU GRAPHIC PAGE.

1 ENERGY RECOVERY UNIT - AHU-1
12" = 1'-0"

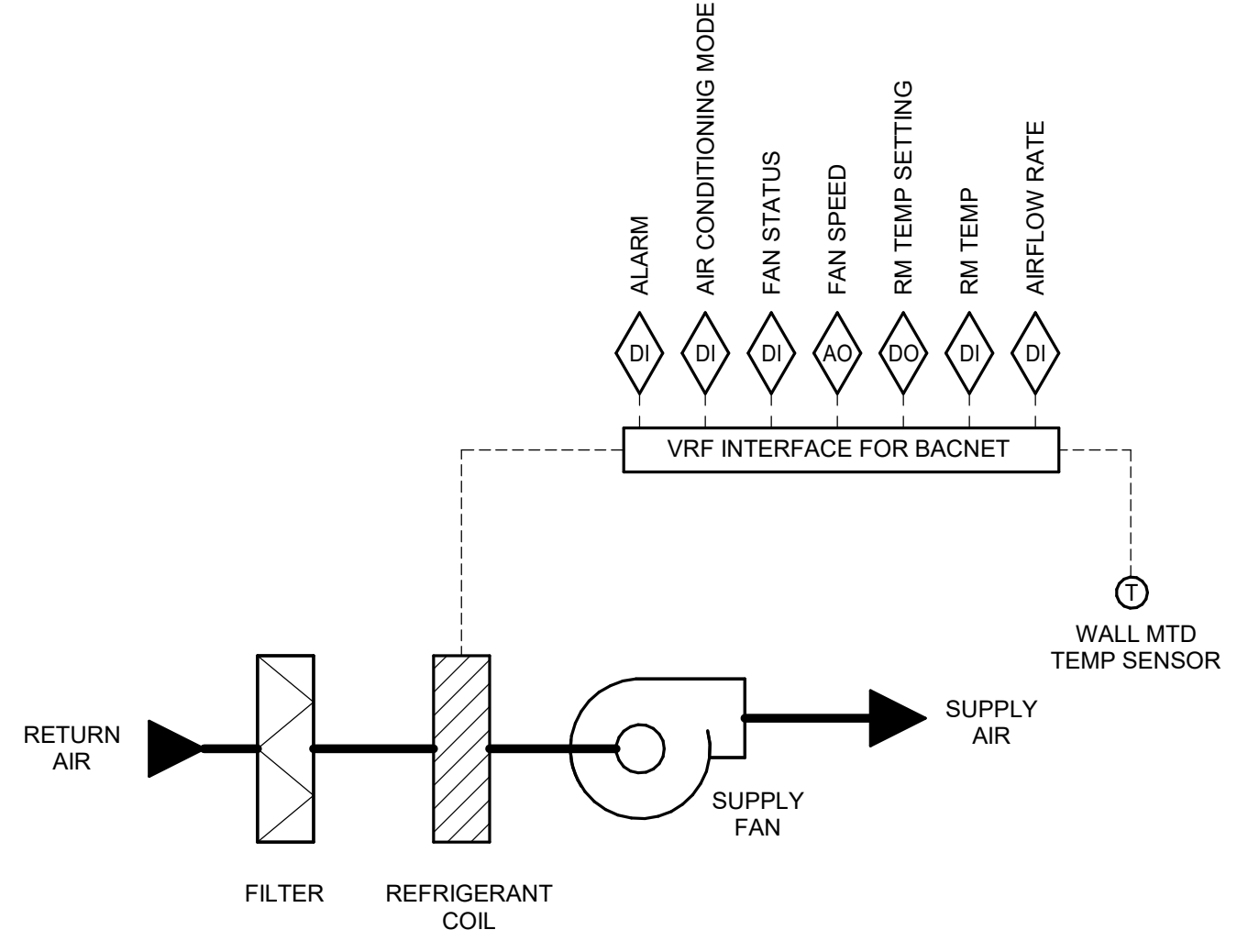
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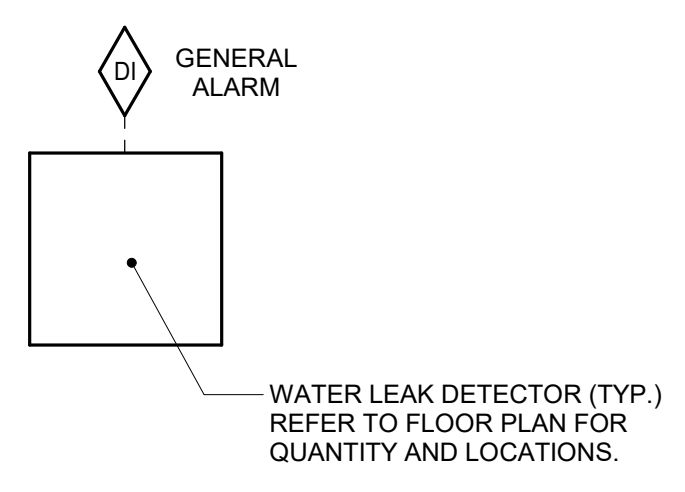
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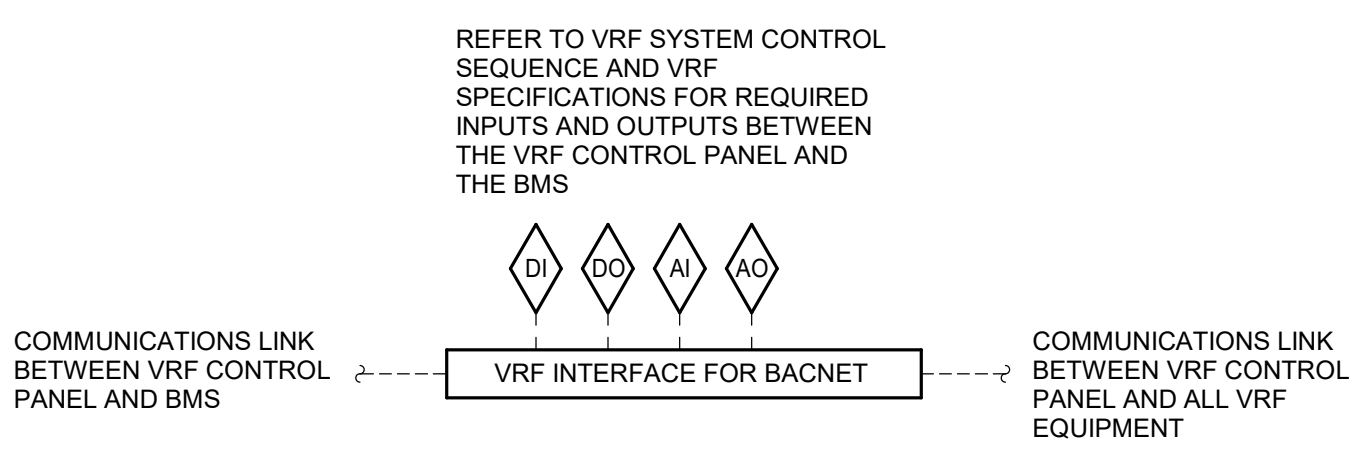
SEQUENCE OF OPERATION:
 VRF SYSTEM CONTROLS SHALL OPERATE THE FAN COIL UNIT AS REQUIRED TO MAINTAIN SPACE TEMPERATURE. FAN SHALL RUN CONTINUOUSLY MODULATING SPEED WITH ROOM LOAD DURING OCCUPIED MODE. HEATING AND COOLING SHALL CYCLE AS NEEDED TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 DURING UNOCCUPIED MODE, FAN AND HEATING/COOLING STAGES SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 THE BMS SYSTEM SHALL COMMUNICATE THE FOLLOWING TEMPERATURE SETPOINTS TO THE VRF CONTROLLER:
 A. OCCUPIED COOLING: 74°F(ADJ.)
 B. OCCUPIED HEATING: 70°F(ADJ.)
 C. UNOCCUPIED COOLING: 76°F(ADJ.)
 D. UNOCCUPIED HEATING: 86°F(ADJ.)

1 VRF IDU CONTROL
NO SCALE



SEQUENCE OF OPERATION:
 FMCS SHALL MONITOR EACH WATER LEAK DETECTOR AND ALARM TO THE OPERATOR INTERFACE IF ANY LEAK DETECTOR DETECTS WATER.
 CONTROL CONTRACTOR SHALL PROVIDE GRAPHIC WITH FLOOR PLAN OF LIBRARY AND LOCATIONS OF EACH WATER LEAK DETECTOR IN THE APPROPRIATE INSTALLED LOCATION ON THE FLOOR PLAN TO ALERT STAFF OF THE LOCATION OF THE LEAK.

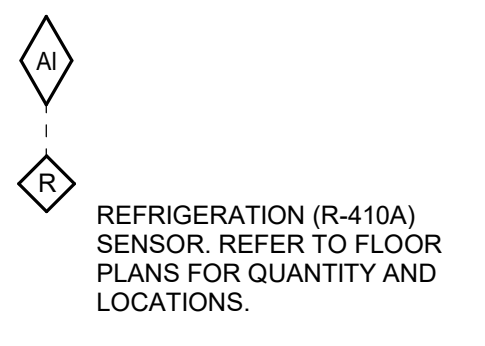
4 WATER LEAK DETECTOR CONTROL
NO SCALE



SEQUENCE OF OPERATION:
 VRF INDOOR UNITS AND VRF HEAT PUMP UNITS SHALL BE CONTROLLED BY FACTORY PROVIDED CONTROL SYSTEM. THE FACTORY CONTROL PANEL SHALL BE PROVIDED WITH A COMMUNICATION LINK BETWEEN THE PROPRIETARY CONTROL SYSTEM TO THE BMS. THE BMS SHALL CONVERT ALL METRIC OUTPUTS FROM VRF CONTROLLER TO IMPERIAL UNITS FOR DISPLAY (I.E. CELSIUS TO FAHRENHEIT)
 THE VRF CONTROLLER SHALL PROVIDE THE FOLLOWING MONITORING POINTS TO THE BMS AT A MINIMUM:
 • COMPRESSOR STATUS OF EACH HEAT PUMP
 • FILTER STATUS OF EACH INDOOR UNIT
 • GENERAL ALARM
 • SPACE TEMPERATURE
 • SPACE THERMOSTAT STATUS
 • AIR-CONDITIONING MODE STATUS (HEAT/COOL/VENTILATION)
 • FAN STATUS
 THE VRF CONTROLLER SHALL PROVIDE THE FOLLOWING CONTROLLABLE/ADJUSTABLE POINTS TO THE BMS AT A MINIMUM:
 • START/STOP
 • AIR-CONDITIONING MODE
 • SPACE TEMPERATURE SETPOINT
 • FILTER ALARM RESET
 • AIRFLOW RATE SETPOINT (HIGH/MEDIUM/LOW)
 • AIR DIRECTION SETTING (FOR EXPOSED UNITS WITH ADJUSTABLE AIR PATTERNS)
 VRF CONTROLLER SHALL PROVIDE 0-10 VDC OUTPUT SIGNAL PER OUTDOOR UNIT FOR CONTROL OF MODULATING CONTROL VALVE PROVIDED BY TCC FOR HEAD PRESSURE CONTROL.
ALARMS, INTERLOCKS & SAFETIES:
 BMS SHALL INDICATE AN ALARM TO THE BMS OPERATOR WORKSTATION IN THE EVENT THE FOLLOWING OCCUR:
 • A HEAT PUMP CALLS FOR COOLING OR HEATING BUT THE ASSOCIATED FLOW SWITCH DOES NOT PROVE WATER FLOW
 • GENERAL ALARM CONDITION IS REPORTED FROM THE VRF CONTROL PANEL TO THE BMS.
 • HIGH CONDENSATE LEVEL ALARM

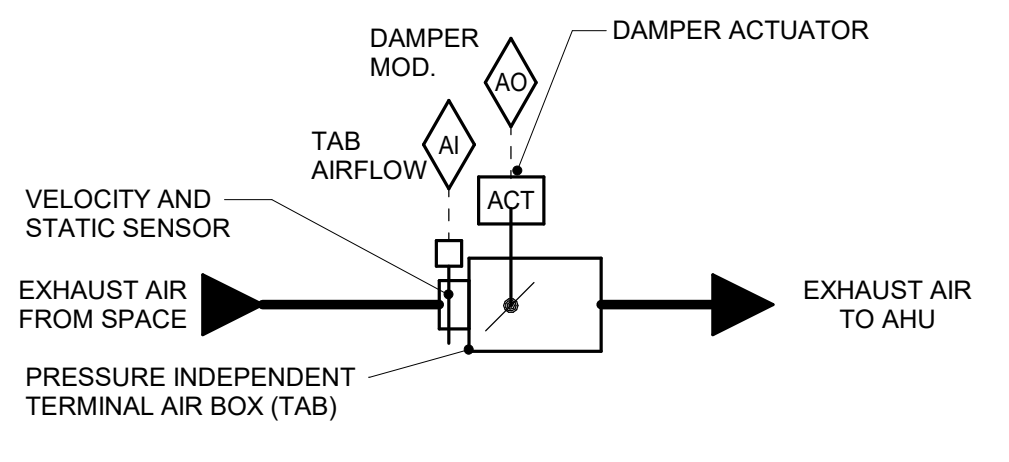
VRF SYSTEM REPORT GENERATION
 BMS SHALL MONITOR THE FOLLOWING POINTS ON 5 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 14-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL OVERWRITE THE OLDEST VALUES:
 • DATE
 • TIME
 • GLOBAL OUTSIDE AIR TEMP. (°F)
 • LOOP WATER SUPPLY TEMP. (°F)
 • OPERATIONAL STATUS OF HEAT PUMPS (ENABLED/DISABLED)
 • VRF LOOP WATER FLOW (GPM)
 • EACH VRF HEAT PUMP RETURN WATER TEMP. (°F)
 THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE BMS OPERATOR INTERFACE.

2 VRF SYSTEM CONTROL
NO SCALE



SEQUENCE OF OPERATION:
 FMCS SHALL MONITOR EACH REFRIGERANT SENSOR AND ALARM TO THE OPERATOR INTERFACE IF ANY SENSOR DETECTS R-410A LEVELS ABOVE 1,000 PPM (ADJ.) TO ALERT MAINTENANCE OF A POSSIBLE LEAK FOR REPAIR PURPOSES.
 CONTROL CONTRACTOR SHALL PROVIDE GRAPHIC WITH FLOOR PLAN OF LIBRARY AND LOCATIONS OF EACH REFRIGERANT SENSOR IN THE APPROPRIATE INSTALLED LOCATION ON THE FLOOR PLAN TO ALERT STAFF OF THE LOCATION OF THE LEAK.

5 REFRIGERANT SENSOR CONTROL
NO SCALE



SEQUENCE OF OPERATION:
 • FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN SUM OF THE SUPPLY TERMINAL AIR BOXES (TAB-S1, TAB-S2, TAB-S3, TAB-S4, TAB-S5, TAB-S6) MINUS THE SUM OF EXHAUST BOXES (TAB-E2, TAB-E3, TAB-E4) MINUS 400 CFM (ADJ.) FOR SPACE PRESSURIZATION.
 • THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE EXHAUST DUCT DIFFERENTIAL STATIC PRESSURE.

3 TAB CONTROL EXHAUST - VARIABLE
NO SCALE

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Revision _____ Date _____

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OPN Project No. **17609000**

Sheet Issue Date **11/30/2018**

Sheet Name **BID DOCUMENTS**

Sheet Number **M552**

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ELECTRICAL SYMBOL LIST table with columns: SYMBOL, TAG, SPEC SECTION, DESCRIPTION. Includes symbols for ground bus, bonding termination, electrical connection, junction box, floor boxes, furniture feed, panelboards, receptacles, switches, sensors, photocell, occupancy sensors, and power meter.

ELECTRICAL SYMBOL LIST table with columns: SYMBOL, TAG, SPEC SECTION, DESCRIPTION. Includes symbols for switches, momentary contact, pilot light, three way, four way, dimmers, occupancy sensors, photocell, and various sensor technologies.

ELECTRICAL SYMBOL LIST table with columns: SYMBOL, TAG, SPEC SECTION, DESCRIPTION. Includes symbols for fire alarm smoke detectors, manual pull stations, heat detectors, addressable monitor modules, relays, notification devices, and remote indicators.

ELECTRICAL ABBREVIATION KEY table with columns: ABBR, DESCRIPTION. Lists abbreviations for AFF, C, GFI, N.C., NIC, N.O., SV, TYP, UNO.

CONTRACTOR ABBREVIATION KEY table with columns: ABBR, DESCRIPTION. Lists abbreviations for A.V.C., C.C., E.C., G.C., M.C., S.C., T.C., TCC.

ELECTRICAL EQUIPMENT TAGS table with columns: TAG, DESCRIPTION, RELATED SPECIFICATION. Lists tags for general purpose contactor, distribution panel, disconnect switch, luminaire type, fire alarm annunciator, control panel, floor box, disconnect switch, furniture feed, lighting contactor, control station, manual switch, extender panel, power pedestal, surge protection device, time switch, manual starter.

SUGGESTED MATRIX OF RESPONSIBILITY table with columns: ITEM, SHOWN ON, FURNISHED BY, INSTALLED BY, NOTES. Matrix for various electrical items like technology rough-in, conduit, bonding systems, ground systems, line voltage power, and equipment.

SUGGESTED MATRIX OF RESPONSIBILITY NOTES table with columns: ITEM, SHOWN ON, FURNISHED BY, INSTALLED BY, NOTES. Contains numbered notes regarding telecommunications rough-ins, product differences, and equipment specifications.

FIRE / SMOKE BARRIER DESIGNATIONS table with columns: TAG, DESCRIPTION, RELATED SPECIFICATION. Lists designations for 1 hour and 2 hour fire barriers.

ELECTRICAL GENERAL NOTES: 1. #### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION... 2. ##### INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE... 3. "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT... 4. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE HAS BATTERY BACKUP.

ELECTRICAL INSTALLATION NOTES: 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN... 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION... 3. CIRCUITS SERVING EMERGENCY AND EXIT LUMINAIRES WILL BE RUN IN A SEPARATE RACEWAY FROM ALL OTHER CIRCUITS.



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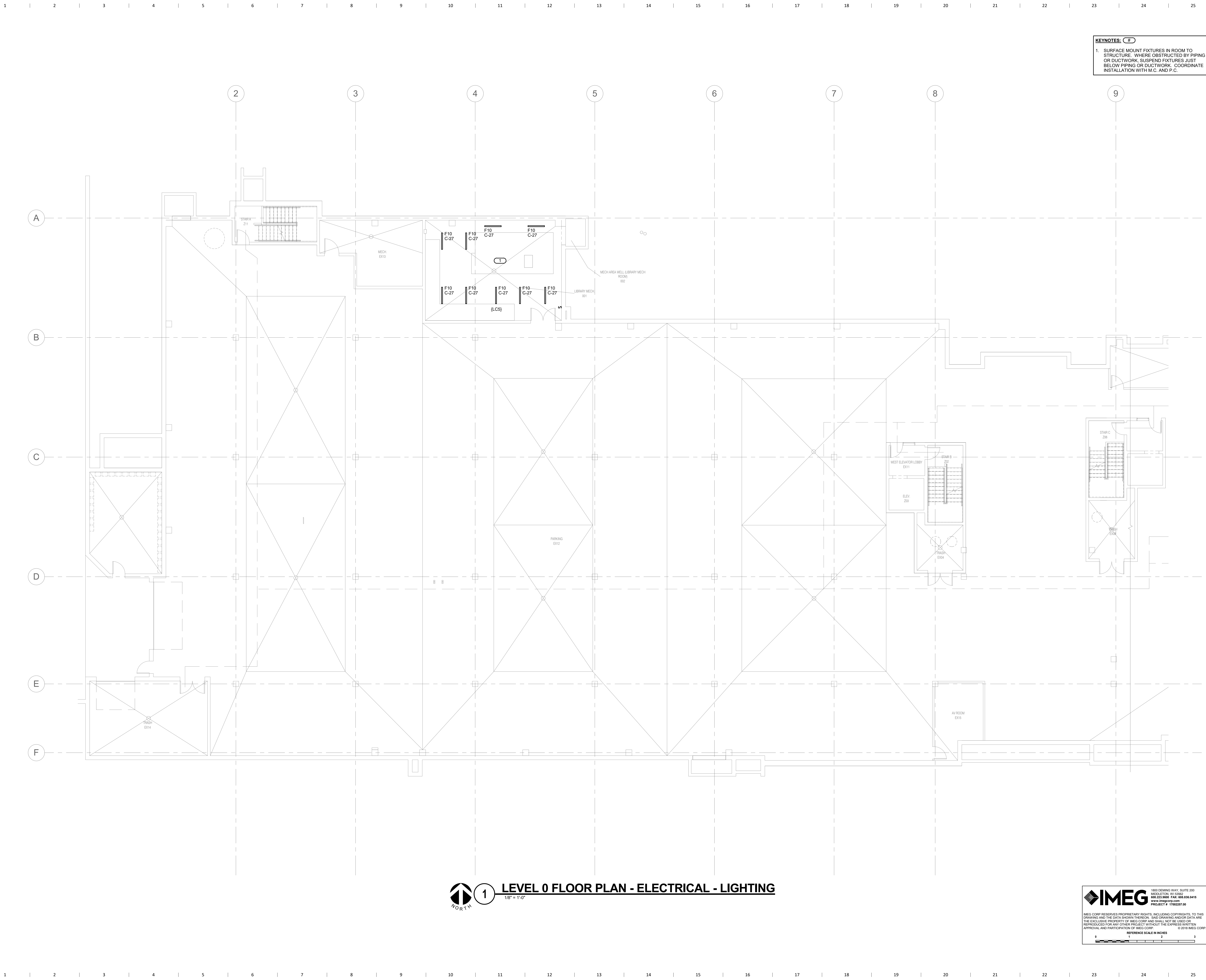
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Revision Date City Contract No. 7662 GPM Project No. 17609000

Sheet No. Date BID DOCUMENTS 11/30/2018 Sheet Name ELECTRICAL COVER SHEET

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KEYNOTES: (W)

1. SURFACE MOUNT FIXTURES IN ROOM TO STRUCTURE. WHERE OBSTRUCTED BY PIPING OR DUCTWORK, SUSPEND FIXTURES JUST BELOW PIPING OR DUCTWORK. COORDINATE INSTALLATION WITH M.C. AND P.C.

1 LEVEL 0 FLOOR PLAN - ELECTRICAL - LIGHTING
1/8" = 1'-0"

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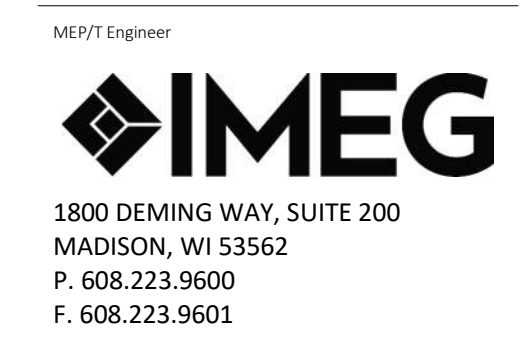
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Sheet Name **LEVEL 0 FLOOR PLAN - LIGHTING**
Sheet Number **E100**



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OPN Project No.
17609000

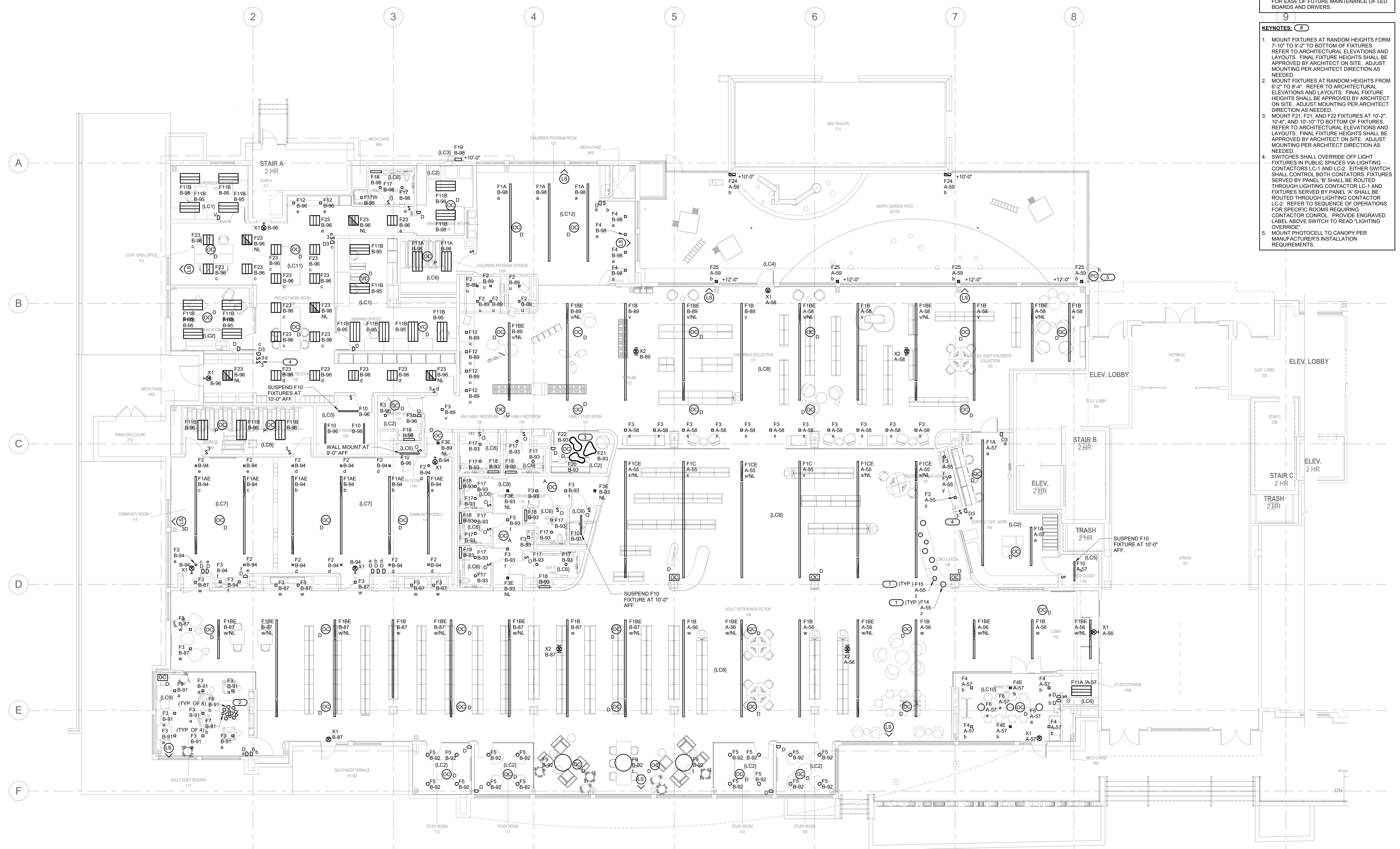
Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
LEVEL 1 FLOOR PLAN - LIGHTING

Sheet Number
E101

- SHEET NOTES:**
- REFER TO ARCHITECTURAL ELEVATIONS AND FLOOR PLANS FOR ADDITIONAL DEVICE, FIXTURE, AND EQUIPMENT MOUNTING, LOCATION AND HEIGHT REQUIREMENTS.
 - INSTALL LIGHT FIXTURES SUCH THAT ADEQUATE WIRE/CABLE SLACK IS PROVIDED FOR EASE OF FUTURE MAINTENANCE OF LED BOARDS AND DRIVERS.

- KEYNOTES:**
- MOUNT FIXTURES AT RANDOM HEIGHTS FORM 7'-10" TO 9'-2" TO BOTTOM OF FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS AND LAYOUTS. FINAL FIXTURE HEIGHTS SHALL BE APPROVED BY ARCHITECT ON SITE. ADJUST MOUNTING PER ARCHITECT DIRECTION AS NEEDED.
 - MOUNT FIXTURES AT RANDOM HEIGHTS FROM 6'-2" TO 8'-4". REFER TO ARCHITECTURAL ELEVATIONS AND LAYOUTS. FINAL FIXTURE HEIGHTS SHALL BE APPROVED BY ARCHITECT ON SITE. ADJUST MOUNTING PER ARCHITECT DIRECTION AS NEEDED.
 - MOUNT F21, F21, AND F22 FIXTURES AT 10'-2", 10'-4" AND 10'-10" TO BOTTOM OF FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS AND LAYOUTS. FINAL FIXTURE HEIGHTS SHALL BE APPROVED BY ARCHITECT ON SITE. ADJUST MOUNTING PER ARCHITECT DIRECTION AS NEEDED.
 - SWITCHES SHALL OVERRIDE OFF LIGHT FIXTURES IN PUBLIC SPACES VIA LIGHTING CONTACTORS LC-1 AND LC-2. EITHER SWITCH SHALL CONTROL BOTH CONTACTORS. FIXTURES SERVED BY PANEL 'B' SHALL BE ROUTED THROUGH LIGHTING CONTACTOR LC-1 AND FIXTURES SERVED BY PANEL 'A' SHALL BE ROUTED THROUGH LIGHTING CONTACTOR LC-2. REFER TO SEQUENCE OF OPERATIONS FOR SPECIFIC ROOMS REQUIRING CONTACTOR CONTROL. PROVIDE ENGRAVED LABEL ABOVE SWITCH TO READ "LIGHTING OVERRIDE".
 - MOUNT PHOTOCELL TO CANOPY PER MANUFACTURER'S INSTALLATION REQUIREMENTS.





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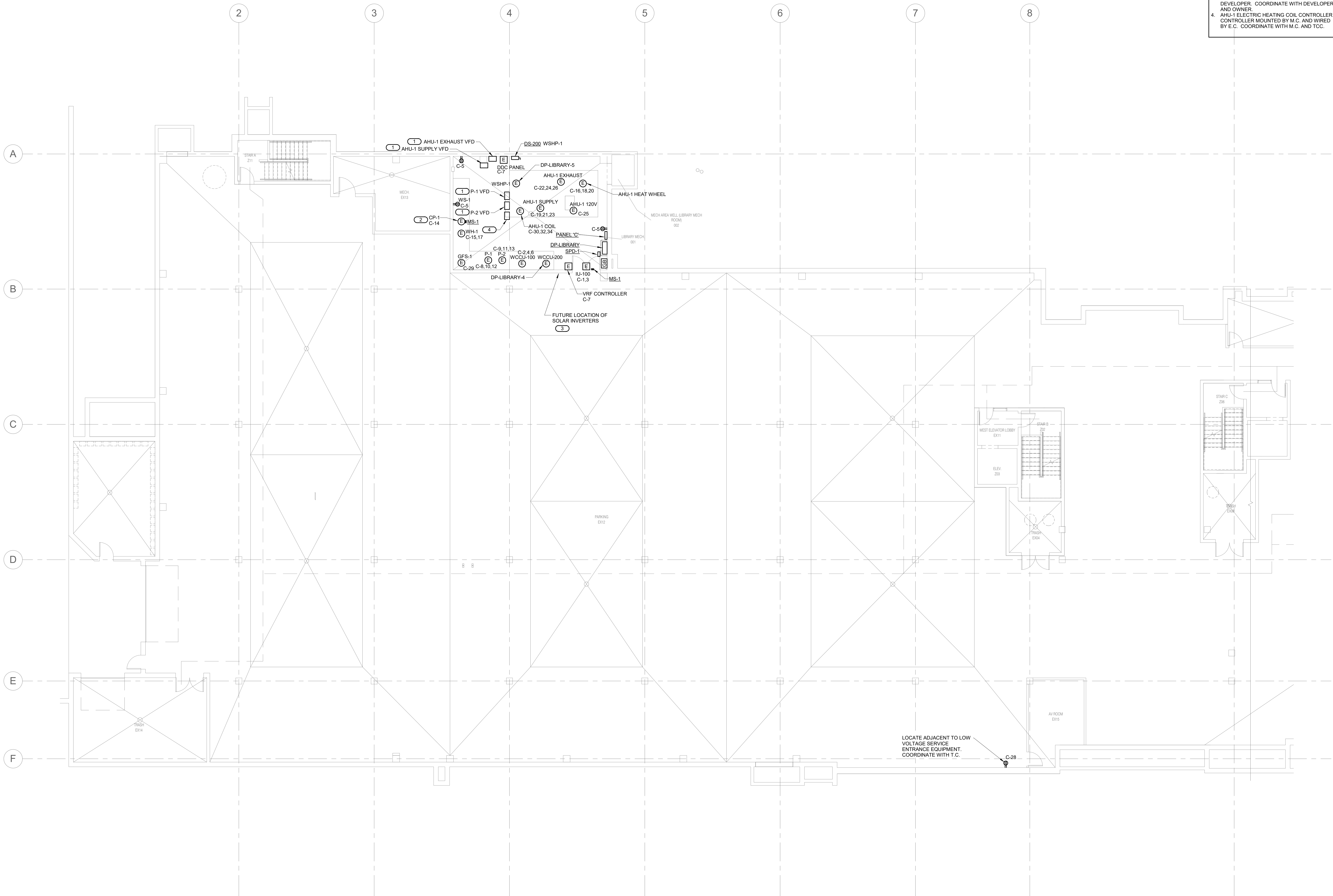
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KEYNOTES:

1. VFD PROVIDED BY TCC AND INSTALLED BY E.C.
2. E.C. SHALL INSTALL AQUASTAT PROVIDED WITH CP-1. COORDINATE WITH P.C.
3. PROVIDE (2) 3" CONDUITS CAPPED AT FUTURE PHOTOVOLTAIC INVERTER LOCATIONS FROM EXTERIOR CONDUIT ENTRIES ON THE NORTH FOUNDATION WALL BY THE BUILDING DEVELOPER. COORDINATE WITH DEVELOPER AND OWNER.
4. AHU-1 ELECTRIC HEATING COIL CONTROLLER MOUNTED BY M.C. AND WIRED BY E.C. COORDINATE WITH M.C. AND T.C.



LOCATE ADJACENT TO LOW VOLTAGE SERVICE ENTRANCE EQUIPMENT. COORDINATE WITH T.C.

LEVEL 0 FLOOR PLAN - ELECTRICAL - POWER
1/8" = 1'-0"

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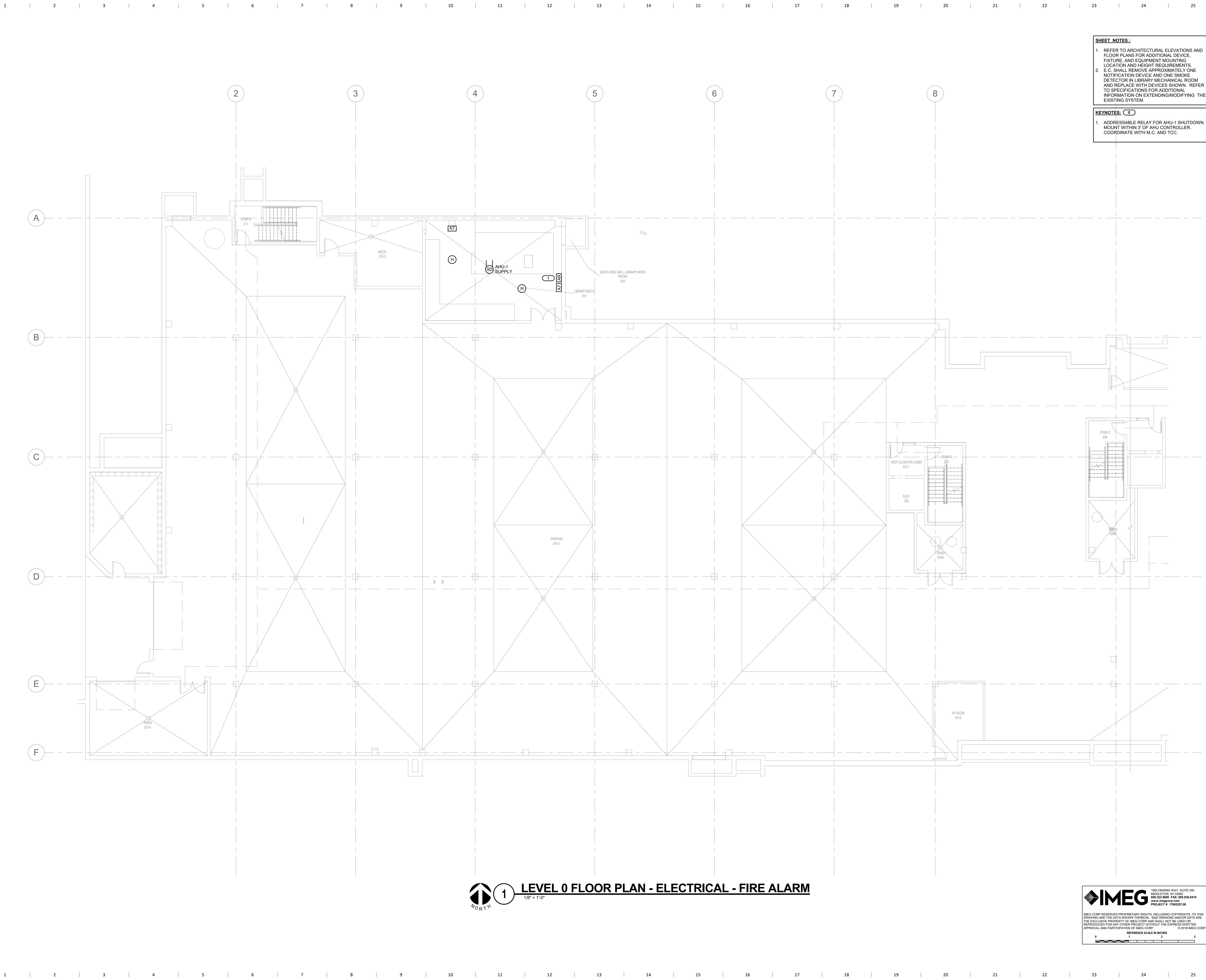
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Sheet Name LEVEL 0 FLOOR PLAN - POWER

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SHEET NOTES:

1. REFER TO ARCHITECTURAL ELEVATIONS AND FLOOR PLANS FOR ADDITIONAL DEVICE LOCATION AND HEIGHT REQUIREMENTS. E.C. SHALL REMOVE APPROXIMATELY ONE NOTIFICATION DEVICE AND ONE SMOKE DETECTOR IN LIBRARY MECHANICAL ROOM AND REPLACE WITH DEVICES SHOWN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON EXTENDING/MODIFYING THE EXISTING SYSTEM.

KEYNOTES: (#)

1. ADDRESSABLE RELAY FOR AHU-1 SHUTDOWN. MOUNT WITHIN 3' OF AHU CONTROLLER. COORDINATE WITH M.C. AND T.C.C.

1 LEVEL 0 FLOOR PLAN - ELECTRICAL - FIRE ALARM
1/8" = 1'-0"

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OPN Project No. **17609000**
Sheet Issue Date **11/30/2018**
Sheet Name **LEVEL 0 FLOOR PLAN - FIRE ALARM**
Sheet Number **E300**

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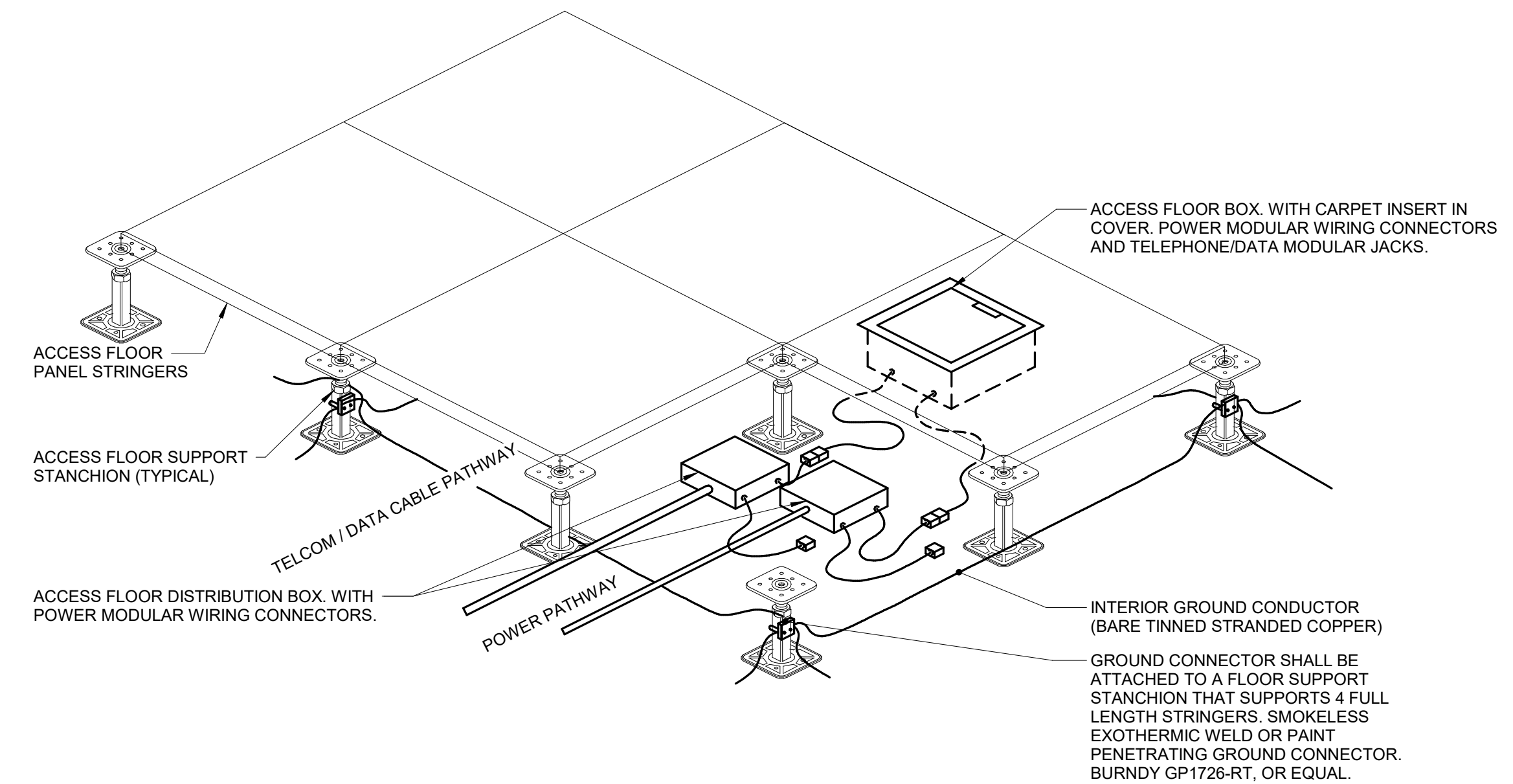
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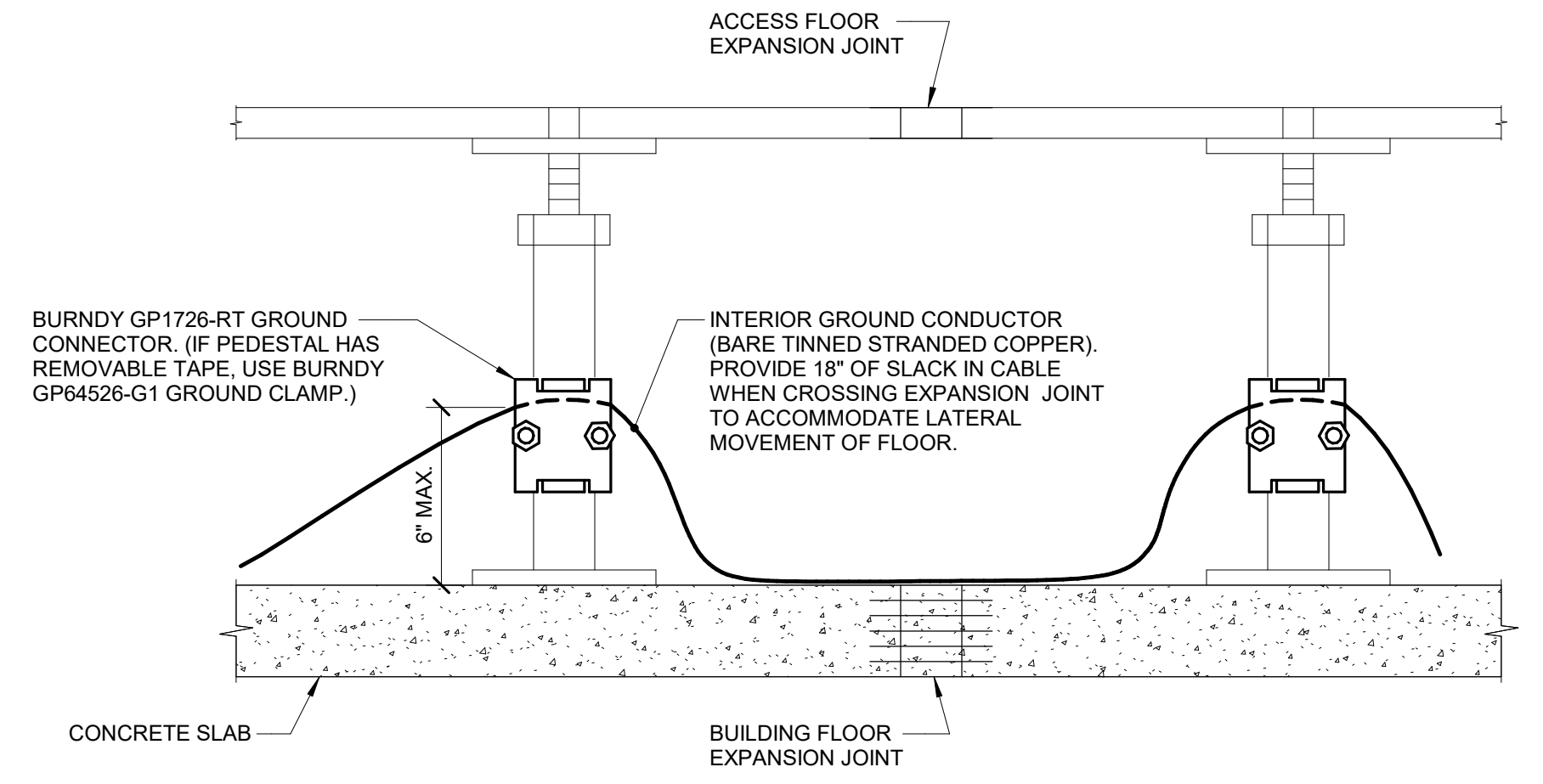
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SEQUENCE OF OPERATION		PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	AHU SHUTDOWN SEQUENCE	SOUND MASKING/PAGING SYSTEMS SHUTDOWN SEQUENCE	AV SYSTEM SHUTDOWN
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY			X						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE				X					
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION			X						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X					
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRREGULARITY				X					
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X					
INITIATING DEVICE FAILURE OR COMMUNICATION ERROR				X					
FIRE ALARM PANEL MANUAL FIRE DRILL			X		X	X			
MANUAL PULL STATION		FT F	X		X	X		X	X
SMOKE DETECTOR		SD	X		X	X		X	X
HEAT DETECTOR		H HF HK	X		X	X		X	X
SMOKE DETECTOR FOR HVAC CONTROL		SD SD _D	X				X		

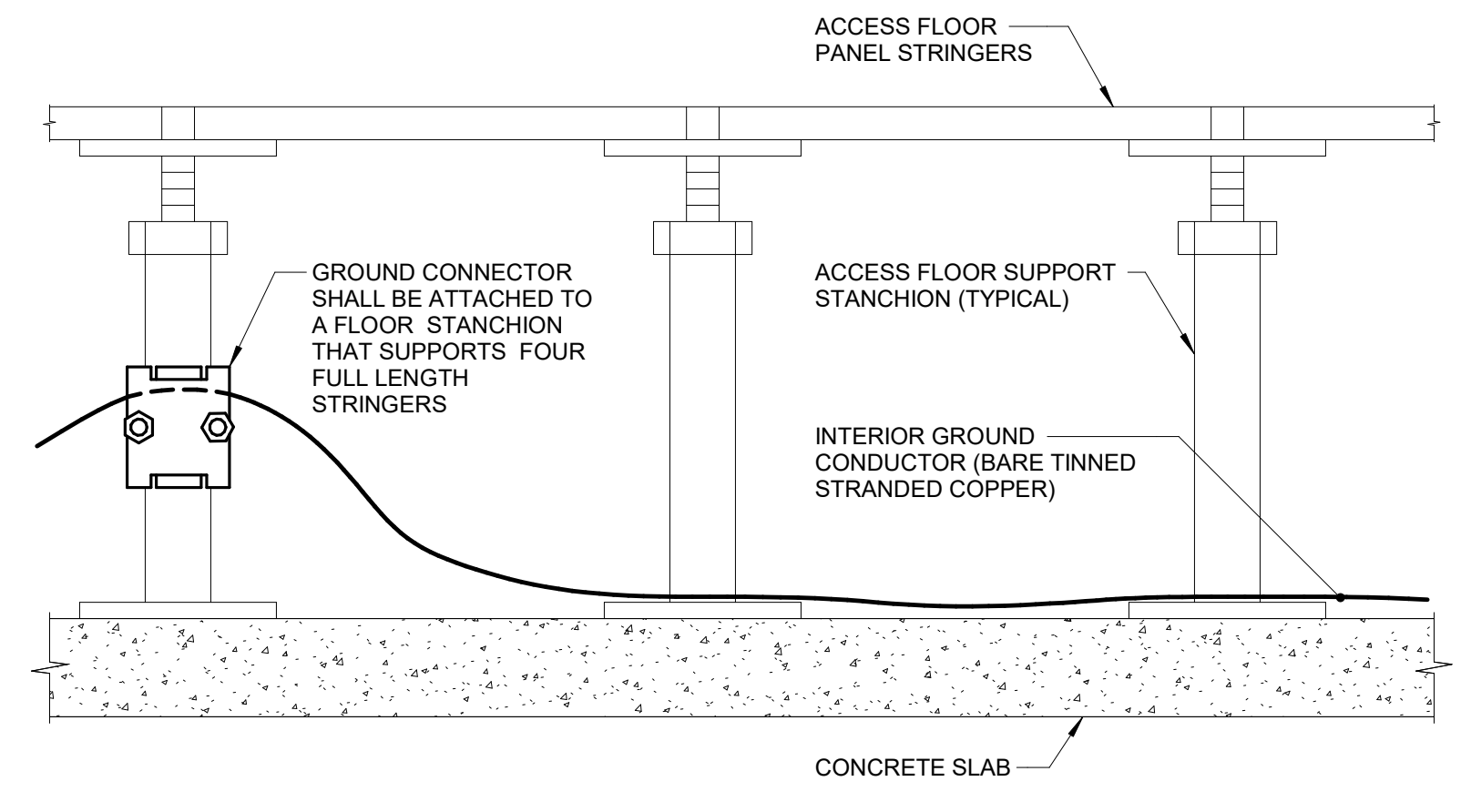
1 FIRE ALARM OPERATION MATRIX
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3 ACCESS FLOOR GROUNDING DETAIL
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2 ACCESS FLOOR EXPANSION JOINT DETAIL
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4 ACCESS FLOOR GROUNDING DETAIL
NO SCALE

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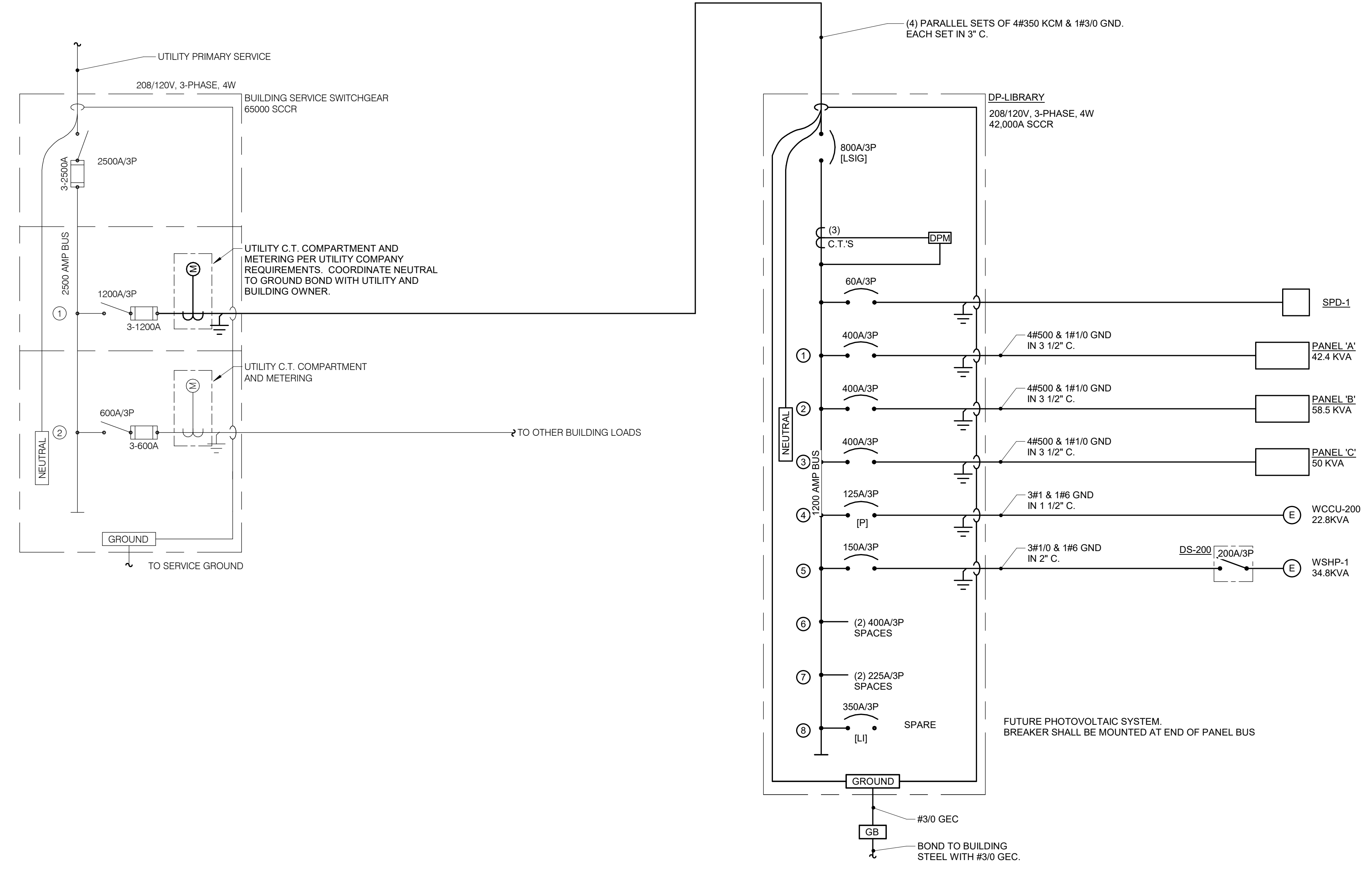
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Sheet Name **ELECTRICAL DETAILS**

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1 ONE-LINE DIAGRAM
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- ONE LINE DIAGRAM NOTES**
- AIC RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
 - INDICATES DIRECT CONNECTION OF GROUND CONDUCTOR TO GROUND BUS. SUBSCRIPT 'T' INDICATES DIRECT CONNECTION OF ISOLATED GROUND CONDUCTOR TO ISOLATED GROUND BUS.
 - INDICATES O.Z. CEDNEY OR EQUAL GROUND BUSHING BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
 - INDICATES OVERLOADS SIZED PER MOTOR NAMEPLATE FULL LOAD AMPERES.
 - INDICATES STARTER NEMA SIZE.
 - AF INDICATES MOLDED/INSULATED CASE BREAKER FRAME SIZE, FOR ADJUSTABLE TRIP BREAKERS.
 - AT INDICATES MOLDED/INSULATED CASE BREAKER TRIP UNIT RATING, FOR ADJUSTABLE TRIP BREAKERS.
 - [L/SIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER. [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT].
 - INDICATES GROUND FAULT RELAY.
 - CONDUCTOR AND CONDUIT SIZES ON THE LINE AND LOAD SIDES OF ALL NON-FUSIBLE DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
 - DPM INDICATES DIGITAL POWER MONITOR.
 - M INDICATES KILOWATT-HOUR METER AS SUPPLIED BY UTILITY COMPANY.
 - C INDICATES CURRENT TRANSFORMER, SIZE AS SPECIFIED.
 - P INDICATES PADLOCK HASP PROVIDED FOR BREAKER.



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Sheet Name
ELECTRICAL ONE-LINE DIAGRAMS

Sheet Number
E500

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LUMINAIRE SCHEDULE

(MTG) MOUNTING:	(TYPE) LAMP TECHNOLOGY:	(L/L) LENS / LOUVER:
RE - RECESSED	FL - FLUORESCENT	A - 125 ACRYLIC
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE
CL - CEILING SURFACE	HL - HALOGEN	C - CLEAR ALZAK
WL - WALL	IN - INCANDESCENT	D - PARABOLIC
UC - UNDER CABINET	LED - LIGHT EMITTING DIODE	F - FRESNEL
CV - COVE	HS - HIGH PRESSURE SODIUM	G - TEMPERED GLASS
PL - POLE	MH - METAL HALIDE	H - WALL WASHER
FR - FLANGED RECESSED	SMH - SUPER METAL HALIDE	P - POLYCARBONATE
O - OTHER (SEE DESCRIPTION)	PSMH - PULSE START METAL HALIDE	K - KSH12 125" ACRYLIC
	CMH - CERAMIC METAL HALIDE	K19 - KSH19 .156" ACRYLIC
DOOR:	O - OTHER (SEE DESCRIPTION)	L - LOW IRIDESCENT SPECULAR ALUM.
FA - FLAT ALUMINUM	XL - EXTENDED LIFE	N - NONE
FS - FLAT STEEL	XLP - EXTENDED LIFE & OUTPUT	R - HIGH IMPACT OR ACRYLIC
RA - REGRESSED ALUMINUM		O - OTHER (SEE DESCRIPTION)
RS - REGRESSED STEEL		
	(TYPE) BALLAST/DRIVER:	(TYPE) BALLAST/DRIVER:
	DIM07 - LINE DIMMING	EB - ELECTRONIC BALLAST
	DIM10 - 0-10V DIMMING	EM - EMERGENCY BATTERY / DRIVER
	DALI - HIGH / LOW LEVEL	DALI - DIGITAL DIMMING BALLAST
	ML - MULTI-LEVEL SWITCHING	MV - MULTI-VOLTAGE ELECTRONIC 120V-277V
	HP - HIGH PERFORMANCE / LBF	PRS - ELECTRONIC PROGRAM RAPID START BALLAST

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.

REFER TO SPECIFICATION SECTIONS LIGHTING 26 51 00 AND EMERGENCY LIGHTING EQUIPMENT 26 52 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. LAMP CORRELATED COLOR TEMPERATURE 4000°K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	DIMENSIONS				MTG	LAMPS		BALLAST/DRIVER		L/L	APPROVED MANUFACTURER
		L	W	H	DIA.		TYPE	QTY	MODEL	VOLTS		
F1A	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, WHITE TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS.	4"	4"			LED	1	MAX 30 WATT MIN 3000 LUMEN PER 4' SECTION	120 V	DIM10	A	LEDALITE TRUGROOVE LADOS A-LIGHT D9 SERIES AXIS LIGHTING BBRLD PER 4' SECTION
F1AE	SIMILAR TO F1A. PROVIDE WITH 1100 LUMEN EMERGENCY BATTERY BACKUP FOR SECTION INDICATED ON PLANS.	4"	4"			LED	1	MAX 30 WATT MIN 3000 LUMEN PER 4' SECTION	120 V	DIM10	EM	LEDALITE TRUGROOVE LADOS A-LIGHT D9 SERIES AXIS LIGHTING BBRLD PER 4' SECTION
F1B	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, WHITE TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS.	4"	4"			LED	1	MAX 42 WATT MIN 4000 LUMEN PER 4' SECTION	120 V	DIM10	A	LEDALITE TRUGROOVE LADOS A-LIGHT D9 SERIES AXIS LIGHTING BBRLD PER 4' SECTION
F1BE	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, WHITE TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS. PROVIDE WITH 1100 LUMEN BATTERY BACKUP FOR SECTION INDICATED ON PLANS.	4"	4"			LED	1	MAX 42 WATT MIN 4000 LUMEN PER 4' SECTION	120 V	DIM10	EM	LEDALITE TRUGROOVE LADOS A-LIGHT D9 SERIES AXIS LIGHTING BBRLD PER 4' SECTION
F1C	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, BLACK TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS.	4"	4"			LED	1	MAX 42 WATT MIN 4000 LUMEN PER 4' SECTION	120 V	DIM10	A	LEDALITE TRUGROOVE LADOS A-LIGHT D9 SERIES AXIS LIGHTING BBRLD PER 4' SECTION
F1CE	CONTINUOUS RECESSED LINEAR LED, FLUSH LENS, BLACK TRIM, UNIVERSAL CEILING MOUNTING. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN ON PLANS. PROVIDE WITH 1100 LUMEN EMERGENCY BATTERY BACKUP FOR SECTION INDICATED ON PLANS.	4"	4"			LED	1	MAX 42 WATT MIN 4000 LUMEN PER 4' SECTION	120 V	DIM10	EM	LEDALITE TRUGROOVE LADOS A-LIGHT D9 SERIES AXIS LIGHTING BBRLD PER 4' SECTION
F2	RECESSED TRIMLESS ADJUSTABLE DOWNLIGHT, WHITE HOUSING, FROSTED LENS, ADJUSTABLE 0-26 DEGREES, 35-46 DEGREE BEAM SPREAD.	3"	3"	3'-0"		RE LED	1	MAX 10 WATT MIN 850 LUMEN	120 V	DIM10	O	INTERLUX WG-8105RSX XTA-940 865 4 UNV FR DELTALIGHT CARREE TRIMLESS ON LED KREGON KUDVWV-80 USAI LIGHTING BEVELED MINI
F3	4" SQUARE OPEN DOWNLIGHT, 40-45 DEGREE BEAM SPREAD, STANDARD FINISH AND COLOR.	4"	4"	0"		RE LED	1	MAX 35 WATT MIN 2100 LUMEN	120 V	DIM10	N	INTENSE LIGHTING IHOL-4DS KURT VERSEN J1344 28 40 12 D USAI LIGHTING BEVELED 2.1
F3E	SIMILAR TO F3. PROVIDE WITH 20W EMERGENCY BATTERY BACKUP. MOUNT ABOVE NEAREST ACCESSIBLE CEILING.	4"	4"	0"		RE LED	1	MAX 35 WATT MIN 2100 LUMEN	120 V	DIM10	EM	INTENSE LIGHTING IHOL-4DS KURT VERSEN J1344 28 40 12 D USAI LIGHTING BEVELED 2.1
F4	4" SQUARE OPEN DOWNLIGHT, 40-45 DEGREE BEAM SPREAD, STANDARD FINISH AND COLOR.	4"	4"	0"		RE LED	1	MAX 20 WATT MIN 900 LUMEN	120 V	DIM10	N	INTENSE LIGHTING IHOL-4DS KURT VERSEN J1344 11 40 12 D USAI LIGHTING BEVELED 2.1
F4E	4" SQUARE OPEN DOWNLIGHT, 40-45 DEGREE BEAM SPREAD, STANDARD FINISH AND COLOR. PROVIDE WITH 7W EMERGENCY BATTERY BACKUP.	4"	4"	0"		RE LED	1	MAX 20 WATT MIN 900 LUMEN	120 V	DIM10	EM	INTENSE LIGHTING IHOL-4DS KURT VERSEN J1344 11 40 12 D USAI LIGHTING BEVELED 2.1
F5	SURFACE MOUNT DOWNLIGHT, CAST ALUMINUM HOUSING, TEMPERED GLASS LENS, BLACK FINISH.		6"	8"		CL LED	1	MAX 40 WATT MIN 2700 LUMENS	120 V	DIM10	G	BEGA 66984 LITON DL360 USAI LIGHTING BEVELED LBRP6
F6	PENDANT FIXTURE, REFLECTOR SHADE WITH UPLIGHT DIFFUSER, FROSTED LENS.		1'-6"	1'-5"		SP LED	1	MAX 64 WATT MIN 4200 LUMENS (SPLIT 50/50 UP/DOWN)	120 V	DIM10	N	BETA-CALCO 20 1801 40 HS DS PATHWAY LIGHTING P50LB79V
F7	PENDANT GLOBE, DARK BRONZE BASE AND CRYSTAL GLASS. RELABEL LAMP SOCKET FOR 10W MAX.		7"	6"		SP LED	1	MAX 10 WATT MIN 280 LUMEN	120 V	DIM07	G	HENNEPIN MADE VELA CARINA
F8	PENDANT GLOBE, DARK BRONZE BASE AND CRYSTAL GLASS. RELABEL LAMP SOCKET FOR 10W MAX.		6"	8"		SP LED	1	MAX 10 WATT MIN 280 LUMEN	120 V	DIM07	G	HENNEPIN MADE CARINA
F9	CIRCULAR PENDANT WITH ANGLED SIDE LAMINATED FABRIC SHADE WITH SMOKE FINISH. AIRCRAFT CABLE SUSPENDED.		8"	3'-6"		SP LED	1	MAX 150 WATT MIN 8800 LUMENS	120 V	DIM10	N	BARBICAN TAPIR 16-67 42D 10H ACV OCL LIGHTING
F10	LED LENSED STRIP LIGHT, 180 DEGREE FROSTED LENS, STEEL WITH BAKED ENAMEL FINISH.	4'-0"	3"	3"		SP/CL LED	1	MAX 60 WATT MIN 5800 LUMENS 4000K	120 V	DIM10	N	EATON SALED LITHONIA ZL1D DAYBRITE LF H.E. WILLIAMS 75L COLUMBIA LCL LSI SCL MERCURY LW3
F11A	RECESSED INDIRECT/DIRECT, ACRYLIC DIFFUSER.	4'-0"	2'-0"	3 1/2"		RE LED	1	MAX 46 WATT MIN 5400 LUMEN	120 V	DIM10	N	DAY-BRITE 2FG G 54L 840 4 D UNV METALUX 24CZ LDS 55 COLUMBIA LIGHTING LCAT24
F11B	RECESSED INDIRECT/DIRECT, ACRYLIC DIFFUSER.	4'-0"	2'-0"	3 1/2"		RE LED	1	MAX 70 WATT MIN 7400 LUMEN	120 V	DIM10	N	DAY-BRITE 2FG G 74L 840 4 DS METALUX 24CZ LDS 50 COLUMBIA LIGHTING LCAT24
F12	4" SQUARE OPEN DIRECTIONAL DOWNLIGHT, 45 DEGREE BEAM SPREAD, 380 DEGREE NOTATION WITH UP TO 35 DEGREE ANGLE, STANDARD FINISH AND COLOR.	4"	4"	0"		RE LED	1	MAX 20 WATT MIN 900 LUMEN	120 V	DIM10	N	INTENSE LIGHTING IHOL-4AS KURT VERSEN J2335 11 40 12 D USAI LIGHTING BEVELED 2.1
F14	LARGE PENDANT ROUND FROSTED GLASS, STAINLESS STEEL CANOPY AND STEM FINISH.		3"	1'-1"		SP LED	1	MAX 30 WATT MIN 1600 LUMEN	120 V	DIM10	O	ARTEMIDE ITKA 50 BEGA 45140
F15	SMALL PENDANT ROUND FROSTED GLASS, STAINLESS STEEL CANOPY AND STEM FINISH.		3"	10"		SP LED	1	MAX 22 WATT MIN 1200 LUMEN	120 V	DIM10	O	ARTEMIDE ITKA 35 BEGA 45139
F17	OPEN DOWNLIGHT, MATTE CLEAR SELF TRIMMING REFLECTOR, 0.75-1.2 SPACING RATIO. REMODEL FIXTURE OR REMOTE DRIVER FOR EASE OF MAINTENANCE.		9 1/2"	6"		RE LED	1	MINIMUM 1500 LUMEN	120 V	DIM10	N	INTENSE LIGHTING S86G3DRR GOTHAM EVO ALED PRESCOLITE RL06
F17W	SIMILAR TO F17, EXCEPT WET LOCATION LISTED.		9 1/2"	6"		RE LED	1	MINIMUM 1500 LUMEN	120 V	DIM10	N	INTENSE LIGHTING S86G3DRR GOTHAM EVO ALED PRESCOLITE RL06
F18	VANITY FIXTURE, TEMPERED GLASS SHADE, SATIN FINISH.	2'-3"	3"	5"		RE LED	1	MAX 40 WATT MIN 3600 LUMEN	120 V	DIM10	O	MODERN FORMS PLC LIGHTING BROOKLAND 55014
F19	LED WALL PACK LUMINAIRE, GLASS LENS, ALUMINUM HOUSING, POWDER COAT FINISH, GASKETED, DARK BRONZE, LISTED WET LOCATION, TYPE III DISTRIBUTION, INTEGRAL PHOTOCELL.	1'-4"	1'-4"	9 1/2"		WL LED	1	MAX 75 WATTS MINIMUM 5500 LUMENS	120 V		G	ARCHITECTURAL AREA LIGHTING MOWD LIGMAN LIGHTING UTR 31712

LUMINAIRE SCHEDULE

(MTG) MOUNTING:	(TYPE) LAMP TECHNOLOGY:	(L/L) LENS / LOUVER:
RE - RECESSED	FL - FLUORESCENT	A - 125 ACRYLIC
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE
CL - CEILING SURFACE	HL - HALOGEN	C - CLEAR ALZAK
WL - WALL	IN - INCANDESCENT	D - PARABOLIC
UC - UNDER CABINET	LED - LIGHT EMITTING DIODE	F - FRESNEL
CV - COVE	HS - HIGH PRESSURE SODIUM	G - TEMPERED GLASS
PL - POLE	MH - METAL HALIDE	H - WALL WASHER
FR - FLANGED RECESSED	SMH - SUPER METAL HALIDE	P - POLYCARBONATE
O - OTHER (SEE DESCRIPTION)	PSMH - PULSE START METAL HALIDE	K - KSH12 125" ACRYLIC
	CMH - CERAMIC METAL HALIDE	K19 - KSH19 .156" ACRYLIC
DOOR:	O - OTHER (SEE DESCRIPTION)	L - LOW IRIDESCENT SPECULAR ALUM.
FA - FLAT ALUMINUM	XL - EXTENDED LIFE	N - NONE
FS - FLAT STEEL	XLP - EXTENDED LIFE & OUTPUT	R - HIGH IMPACT OR ACRYLIC
RA - REGRESSED ALUMINUM		O - OTHER (SEE DESCRIPTION)
RS - REGRESSED STEEL		
	(TYPE) BALLAST/DRIVER:	(TYPE) BALLAST/DRIVER:
	DIM07 - LINE DIMMING	EB - ELECTRONIC BALLAST
	PAF - PAINT AFTER FABRICATION	EM - EMERGENCY BATTERY / DRIVER
	CSA - FINISH SELECTION BY ARCHITECT	DALI - DIGITAL DIMMING BALLAST
	ML - MULTI-LEVEL SWITCHING	MV - MULTI-VOLTAGE ELECTRONIC 120V-277V
	HP - HIGH PERFORMANCE / LBF	PRS - ELECTRONIC PROGRAM RAPID START BALLAST

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.

REFER TO SPECIFICATION SECTIONS LIGHTING 26 51 00 AND EMERGENCY LIGHTING EQUIPMENT 26 52 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. LAMP CORRELATED COLOR TEMPERATURE 4000°K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	DIMENSIONS				MTG	LAMPS		BALLAST/DRIVER		L/L	APPROVED MANUFACTURER
		L	W	H	DIA.		TYPE	QTY	MODEL	VOLTS		
F20	SUSPENDED DIRECT/INDIRECT CURVED FORM LINEAR FIXTURE, WHITE FINISH.	3'-3"	2'-3"	3"	0"	SP	1	MAX 67 WATT MINIMUM 6100 LUMEN	120 V	DIM10	A	BETA-CALCO PUZZLE 99 2111
F21	SUSPENDED DIRECT/INDIRECT CURVED FORM LINEAR FIXTURE, WHITE FINISH.	3'-3"	2'-11"	3"	0"	SP	1	MAX 67 WATT MINIMUM 6400 LUMEN	120 V	DIM10	A	BETA-CALCO PUZZLE 99 0111
F22	SUSPENDED DIRECT/INDIRECT CURVED FORM LINEAR FIXTURE, WHITE FINISH.	3'-0"	2'-6"	3"	0"	SP	1	MAX 63 WATT MINIMUM 5800 LUMEN	120 V	DIM10	A	BETA-CALCO PUZZLE 99 1111
F23	RECESSED INDIRECT/DIRECT, ACRYLIC DIFFUSER.	2'-0"	2'-0"	5 1/2"		RE LED	1	MAX 45 WATT MINIMUM 4400 LUMEN	120 V	DIM10	A	DAY-BRITE 2FG G 45L 840 2 D UNV METALUX 22CZ LDS 44 COLUMBIA LIGHTING LCAT22
F24	LED WALL PACK LUMINAIRE, GLASS LENS, ALUMINUM HOUSING, POWDER COAT FINISH, GASKETED, DARK BRONZE, LISTED WET LOCATION, TYPE III DISTRIBUTION, PROVIDE WITH INTEGRAL BATTERY BACKUP.	1'-4"	1'-4"	9 1/2"		WL LED	1	MAX 50 WATTS MINIMUM 4400 LUMENS	120 V	EM	G	EATON ENC F02 LED ET B.L3
F25	LED WALL PACK LUMINAIRE, SILICONE SEALED LED CHAMBER, ALUMINUM HOUSING, POWDER COAT FINISH, GASKETED, DARK BRONZE, LISTED WET LOCATION, TYPE IV DISTRIBUTION, PROVIDE WITH 2000 LUMEN REMOTE BATTERY PACK MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.	6"	8"	4"		WL LED	1	MAX 30 WATTS MINIMUM 2700 LUMENS	120 V		G	EATON XTOR3B-W
X1	EDGE-LIT SINGLE FACED EXIT SIGN, INJECTION MOLDED ACRYLIC MIRROR LENS AND EXTRUDED ALUMINUM HOUSING. HOUSING FINISH AND COLORS SELECTED BY ARCHITECT. VERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS. EMERGENCY BATTERY BACKUP.	1'-1"	2"	9"		CL LED	1	L.E.D.	120 V	EM	O	LITHONIA LRP 1 DUAL-LITE LS S PHILIPS CHLORIDE EVENLITE SOV 1C ISOLITE ELT
X2	EDGE-LIT DOUBLE FACED EXIT SIGN, INJECTION MOLDED ACRYLIC MIRROR BACKGROUNND AND EXTRUDED ALUMINUM HOUSING. HOUSING FINISH AND COLORS SELECTED BY ARCHITECT. VERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS. EMERGENCY BATTERY BACKUP.	1'-1"	2"	9"		CL LED	1	L.E.D.	120 V	EM	O	LITHONIA LRP 2 DUAL-LITE LS D PHILIPS CHLORIDE EVENLITE SOV 2M ISOLITE ELT

LIGHTING SEQUENCE OF OPERATION

PLAN ID	LIGHTING SWITCHED
(LC1)	Sequence: Dimmed lights are vacancy controlled in this space. ON: The lights turned on using wall controller. ADJUST: The dimming luminaires are raised / lowered using wall controller. OFF: The lights turn off using wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.
(LC2)	Sequence: Dimmed lights are occupancy controlled in this space. ON: The lights turn on to last switched state upon occupancy control. ADJUST: The dimming luminaires are raised / lowered using wall controller. OFF: The lights turn off using a wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.
(LC3)	Sequence: Switched luminaire is photo cell controlled in this space. ON: The lights turn on upon photo cell control. OFF: The lights turn off upon photo cell control.
(LC4)	Sequence: Switched lights are photo cell controlled in this space. ON: The lights turn on with switch in Children's Program Room 123 and override off upon photo cell control. OFF: The lights turn off using a wall switch and photo cell control. Upon loss of power, the fixtures will transfer to battery backup and turn on.
(LC5)	Sequence: Switched lights are controlled in this space. ON: The lights turn on using switches. OFF: The normal lights turn off using switches.
(LC6)	Sequence: Switched luminaires are occupancy controlled in this space. ON: The lights turn on to last switched state upon occupancy control. OFF: The lights turn off using switches. After the space has been vacant for 20 minutes, the lights will automatically turn off.
(LC7)	Sequence: Multiple zones of dimmed lights are occupancy controlled in this space. Daylight sensing also controls fixtures within the daylight zones. ON: Zones turn on to last switched state upon occupancy control. ADJUST: Lights are raised/lowered using wall controllers. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylight zones. OFF: The lights may be turned off using a wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off. Upon loss of power, the half shaded fixtures will transfer to battery backup and turn on.
(LC8)	Sequence: Multiple zones of lights are occupancy controlled in this space. Daylight sensing also controls fixtures within the daylight zones. Emergency night light fixtures remain on at all times. Light fixtures with subscripts 'Y' through 'Z' in open areas 102, 106, 107, 108, 116, 120, 121, and 122 are controlled by wall controllers located at shipping/receiving area and circulation desk. ON: Zones turn on to last switched state upon occupancy control. Activation of any occupancy sensor in any zone will turn on all zones. ADJUST: Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylight zones. Half shaded fixtures or portions of fixtures will remain on at full illumination all times for egress purposes. OFF: The lights may be turned off using a wall controller. After the space has been vacant for 30 minutes, all zones will automatically turn off simultaneously.
(LC9)	Sequence: Two zones of dimmed lights are occupancy controlled in this space with daylight sensing for fixtures within the daylight zones. ON: Zones turn on to last switched state upon occupancy control. ADJUST: Individual lighting zones are raised / lowered using wall controller. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylight zones. OFF: The lights turn off using wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.
(LC10)	Sequence: Two zones of dimmed lights are occupancy controlled in this space. ON: Zones turn on to last switched state upon occupancy control. ADJUST: Individual lighting zones are raised / lowered using wall controller. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylight zones. OFF: The lights turn off using wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.
(LC11)	Sequence: One zone of dimmed and two zones of switched lights are occupancy controlled in this space with daylight sensing for fixtures within the daylight zones. Half shaded fixtures will remain on at all times. ON: Zones turn on to last switched state upon occupancy control. ADJUST: Dimmed lighting zone is raised / lowered using wall controllers. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylight zones. OFF: The lights turn off using wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off. Upon loss of power, the half shaded fixtures will transfer to battery backup and turn on.
(LC12)	Sequence: Dimmed lights are occupancy controlled in this space with daylight sensing for fixtures within the daylight zones. ON: The lights turn on to last switched state upon occupancy control. ADJUST: The dimmed lights are raised / lowered using wall controller. Dimmable lights will continuously adjust to the presence of daylight to maintain 40 foot-candles at +30" within the daylight zones. OFF: The lights turn off using a wall controller. After the space has been vacant for 20 minutes, the lights will automatically turn off.

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.									
DISCONNECT TYPE:					REMARKS:				
DU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES 'I' ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER)							
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)							
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR							
STARTER TYPE:									
FV - FULL VOLTAGE	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR							
YD - WYE - DELTA	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS							
RE - REVERSING	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2-M.O. & (2)-N.C.							
TW - 2 SPEED, 2 WINDING	SIN - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR							
SW - 2 SPEED, 1 WINDING		HL - HANDLE PADLOCK HUP							
RV - REDUCED VOLTAGE AUTO/FMR									
SS - SOLID STATE									
MS - MANUAL STARTER									
MX - MANUAL SWITCH									
FS - FUSED SWITCH									

ITEM	DISCONNECT TYPE & RATING		CIRCUIT VOLTAGE	POLES	STARTER		NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
	TYPE	RATING			NEMA SIZE	TYPE			
DS-200	NF	200 A	480 V	3			1		SQUARE D 3110 H1564 EATON TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
MS-1		16 A	208 V	2	0	MS	1	TO, HL	SQUARE D 2510 FG5 EATON TYPE MS GENERAL ELECTRIC CR101 SIEMENS TYPE SMF



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PANEL NAME: A

TYPE: BOLT-ON MOUNTING: RECESSED FED FROM: DP-LIBRARY SCCR: 18,000A LOCATION: MECH CLOSET 104

CONNECTED 42.3 kVA MAIN: 400A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 DEMAND: 39.06 kVA

Table with columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, A, B, C, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO. Includes circuit details for receptacles, lighting, and future heat.

PANEL NAME: C

TYPE: BOLT-ON MOUNTING: SURFACE FED FROM: DP-LIBRARY SCCR: 30,000A LOCATION: LIBRARY MECH. 001

CONNECTED 70 kVA MAIN: 400A MLO VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 DEMAND: 70 kVA

Table with columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, A, B, C, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO. Includes circuit details for WCCU-100, AHU-1, and various spares.

PANEL NAME: B

TYPE: BOLT-ON MOUNTING: SURFACE FED FROM: DP-LIBRARY SCCR: 18,000A LOCATION: IT ROOM 129

CONNECTED 130.9 kVA MAIN: 400A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 DEMAND: 120.72 kVA

Table with columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, A, B, C, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO. Includes circuit details for receptacles, lighting, and various spares.

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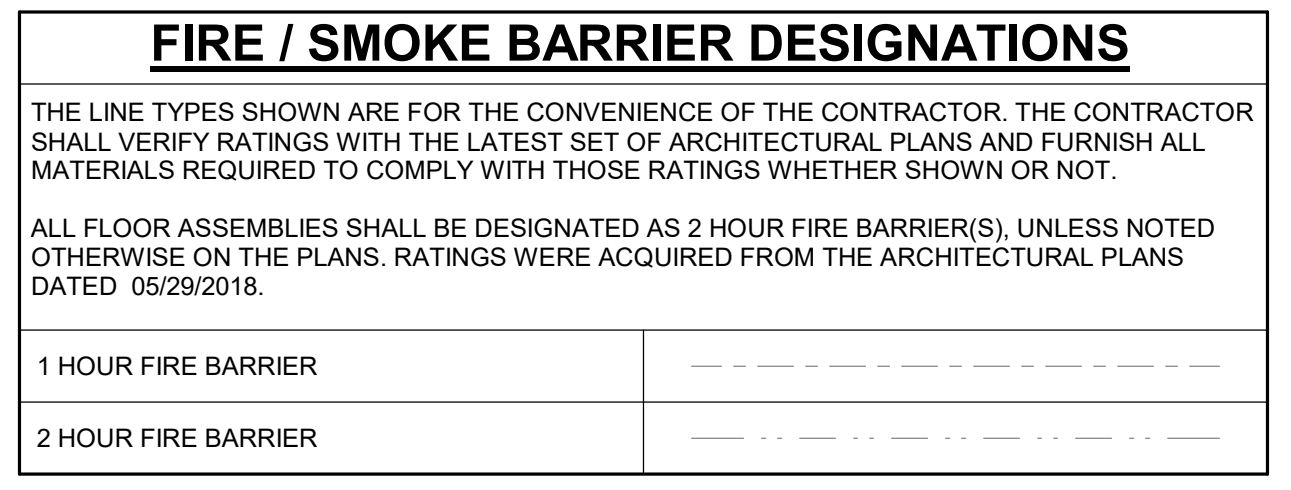
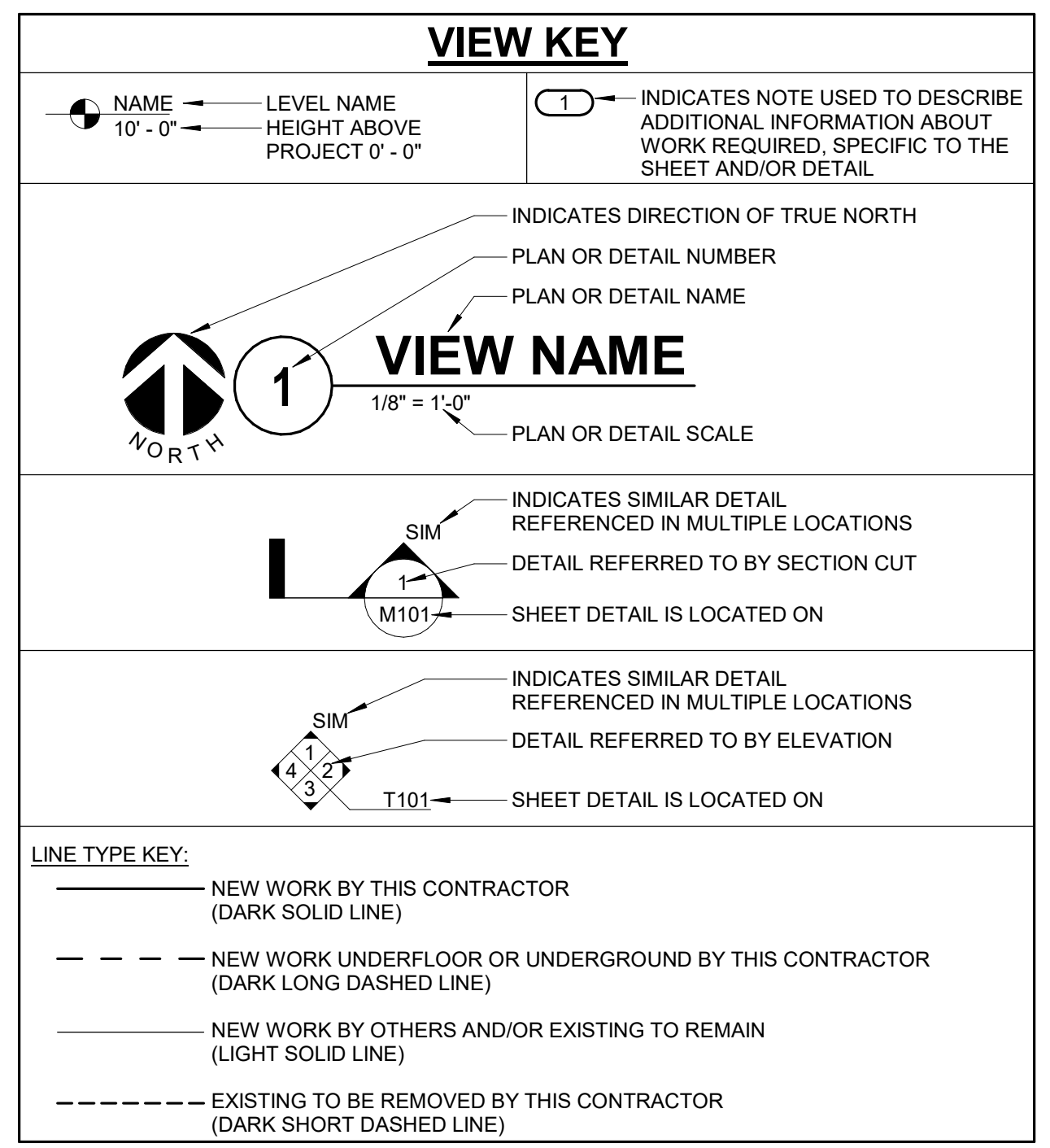
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PRINTED: 12/7/2018 9:27:11 AM



CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR

PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—CW	COLD WATER - POTABLE
—D	DRAIN
—DI	DEIONIZED WATER
—DT	DRAIN TILE
—G	NATURAL GAS
—GRV	GAS REGULATOR VENT
—GSAN	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
—HW	HOT WATER - POTABLE
—HWC	HOT WATER CIRCULATING - POTABLE
—PD	PUMPED DISCHARGE
—SAN	SANITARY DRAINAGE
—SCW	SOFT COLD WATER
—SHW	SOFT HOT WATER
—ST(1,000)	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
—STS	STORM DRAINAGE (SECONDARY)
—STW	SOFT TEMPERED WATER
—TW	TEMPERED WATER
—V	VENT
—W	SERVICE WATER - POTABLE
→	PIPE CONTINUATION
→	PIPE CAP
→	PIPE DOWN
→	PIPE UP OR UP/DOWN
○	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
→	PITCH PIPE IN DIRECTION
→	DIRECTION OF FLOW IN PIPE
→	ROUTE TO DRAIN
RD-1 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
—	NEW CONNECTION
—	DIELECTRIC CONNECTION
—	UNION/FLANGE
—	SHUTOFF VALVE NORMALLY OPEN
—	SHUTOFF VALVE NORMALLY CLOSED
—GPM	BALANCING VALVE (NUMBER INDICATES GPM)
—	CHECK VALVE
—	SOLENOID VALVE
—	SAFETY/RELIEF VALVE
—	VACUUM BREAKER
—	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
—	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
—	TEMPERATURE SENSOR WITH WELL
—	THERMOMETER WITH WELL (DIAL TYPE)
—	THERMOMETER WITH WELL (FILLED TYPE)
—	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
—	PRESSURE REDUCING VALVE (LIQUID/GAS)
—	PUMP
—	METER
—	ALIGNMENT GUIDE
—	PIPE ANCHOR
—	EXPANSION JOINT

WATER CALCULATION WORKSHEET - SOFTENED COLD WATER

INFORMATION REQUIRED TO SIZE WATER SERVICE AND WATER DISTRIBUTION (CW):	
1. DEMAND OF BUILDING IN WATER SUPPLY FIXTURE UNITS (WSFU):	108 WSFU
1A. DEMAND OF BUILDING IN WSFU CONVERTED TO GALLONS PER MINUTE:	70 GPM
2. ELEVATION DIFFERENCE FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE:	-6 FEET
3. SIZE OF WATER METER:	2 1/2 INCHES
4. DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE:	340 FEET
5. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK:	91.0 PSI
CALCULATE WATER PRESSURE LOSS	
6. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK (VALUE OF #5 ABOVE):	91.0
7. DETERMINE PRESSURE LOSS DUE TO FRICTION IN 6" DIAMETER WATER SERVICE. WATER SERVICE PIPING MATERIAL IS: DUCTILE IRON. PRESSURE LOSS PER 100 FEET:	0.01
SUBTRACT VALUE OF "7"	
SUBTOTAL	
8. DETERMINE PRESSURE LOSS OR GAIN DUE TO ELEVATION. (MULTIPLY THE VALUE OF #2 ABOVE BY 0.434): SUBTRACT VALUE OF "8"	-2.4
9. AVAILABLE PRESSURE AFTER THE BUILDING CONTROL VALVE:	93.4
CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")	
B. PRESSURE AVAILABLE AFTER THE BUILDING CONTROL VALVE (FROM #9 ABOVE):	VALUE OF "B" 93.4
C. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED):	SUBTRACT VALUE OF "C" 5.0
C.1 PRESSURE AFTER WATER METER:	88.4
C.2 PRESSURE SETPOINT OF PRESSURE REDUCING VALVE	79.0
C.3 PRESSURE LOSS THROUGH PRESSURE REDUCING VALVE AT PEAK FLOW	11.0
D.3 PRESSURE AT CONTROLLING FIXTURE:	SUBTOTAL 68.0
CONTROLLING FIXTURE IS: SHOWER	SUBTRACT VALUE OF "D" 25.0
SUBTOTAL	
E. DIFFERENCE IN ELEVATION BETWEEN BUILDING CONTROL VALVE AND THE CONTROLLING FIXTURE IN FEET: 12x0.434 PSIF/FT	SUBTRACT VALUE OF "E" 5.2
SUBTOTAL	
F. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES AND BACKFLOW PREVENTERS WHICH SERVE THE CONTROLLING FIXTURE (WATER SOFTENERS, FILTERS, ETC.) PRESSURE LOSS DUE TO WATER SOFTENER	
F1. WSFU DOWNSTREAM OF WATER TREATMENT DEVICE:	93 WSFU
F2. CONVERT WSFU TO GPM USING TABLE 382.40-3:	66 GPM
F3. CONVERT WSFU TO GPM USING TABLE 382.40-3E: (FOR INDIVIDUAL DWELLING UNITS ONLY)	0 GPM
F4. REFER TO MANUF. GRAPH TO OBTAIN PRESSURE LOSS:	SUBTRACT VALUE OF "F4" 16.0
SUBTOTAL	
G. PRESSURE LOSS FOR FUTURE ALLOWANCE:	SUBTRACT VALUE OF "G" 0.0
SUBTOTAL	
H. PRESSURE LOSS THROUGH TANKLESS WATER HEATERS, COMBINATION BOILER/WATER HEATERS, HEAT EXCHANGERS WHICH SERVE THE CONTROLLING FIXTURE:	SUBTRACT VALUE OF "H" 0.0
SUBTOTAL	
I. DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING FIXTURE IN FEET: FEET X 1.5: 350	DIVIDE BY VALUE OF "I" 525
SUBTOTAL	
A. PRESSURE AVAILABLE FOR UNIFORM LOSS	MULTIPLY BY: 0.042
SUBTOTAL	
WATER DISTRIBUTION PIPING IS: COPPER, TYPE L	
MULTIPLY BY: 100	
A (PSI/100 FT) 4.2	

PLUMBING FIXTURE ROUGH-IN SCHEDULE

NOTES: 1) SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINIMUM OF 2". 2) 1/2" CW AND HW APPLIES ONLY TO THE FINAL VERTICAL RISE-DROP TO EACH FIXTURE. BRANCH PIPING TO VERTICAL RISE-DROP SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. 3) SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.

FIXTURE DESCRIPTION	DOMESTIC CW (NOTE 3)	DOMESTIC HW (NOTE 3)	SANITARY (NOTE 3)	VENT (NOTE 3)	REMARKS
ELECTRIC WATER COOLER	1/2"	-	2"	1 1/2"	-
FLOOR DRAIN/FLOOR SINK	-	-	2"	1 1/2"	-
FLOOR DRAIN/FLOOR SINK	-	-	3"	1 1/2"	-
HOSE BIBB	3/4"	-	-	-	-
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	NOTE 1 & 2
MOP BASIN	3/4"	3/4"	3"	1 1/2"	-
SHOWER	1/2"	1/2"	2"	1 1/2"	NOTE 2
SINK	1/2"	1/2"	1 1/2"	1 1/2"	NOTE 1 & 2
UTILITY BOX - COLD WATER	1/2"	-	-	-	-
WATER CLOSET	1 1/4"	-	4"	2"	-

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
E	EXISTING
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
GD	GARBAGE DISPOSER
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MV	MIXING VALVE
NC	NEW CONNECTION
NIC	NOT IN CONTRACT
NT	NEUTRALIZATION TANK
RD	ROOF DRAIN
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WM	WATER METER
WS	WATER SOFTENER
UNO	UNLESS NOTED OTHERWISE
YCO	YARD CLEANOUT

WATER CALCULATION WORKSHEET - HOT WATER

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")	
B. PRESSURE AVAILABLE AFTER THE BUILDING CONTROL VALVE (FROM #9 ABOVE):	VALUE OF "B" 93.4
C. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED):	SUBTRACT VALUE OF "C" 5.0
C.1 PRESSURE AFTER WATER METER:	88.4
C.2 PRESSURE SETPOINT OF PRESSURE REDUCING VALVE	79.0
C.3 PRESSURE LOSS THROUGH PRESSURE REDUCING VALVE AT PEAK FLOW	11.0
D. PRESSURE AT CONTROLLING FIXTURE:	SUBTOTAL 68.0
CONTROLLING FIXTURE IS: SHOWER	SUBTRACT VALUE OF "D" 25.0
SUBTOTAL	
E. DIFFERENCE IN ELEVATION BETWEEN BUILDING CONTROL VALVE AND THE CONTROLLING FIXTURE IN FEET: 12 X0.434 PSIF/FT	SUBTRACT VALUE OF "E" 5.2
SUBTOTAL	
F. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES AND BACKFLOW PREVENTERS WHICH SERVE THE CONTROLLING FIXTURE (WATER SOFTENERS, FILTERS, ETC.) PRESSURE LOSS DUE TO WATER SOFTENER	
F1. WSFU DOWNSTREAM OF WATER TREATMENT DEVICE:	93 WSFU
F2. CONVERT WSFU TO GPM USING TABLE 382.40-3:	66 GPM
F3. CONVERT WSFU TO GPM USING TABLE 382.40-3E: (FOR INDIVIDUAL DWELLING UNITS ONLY)	0 GPM
F4. REFER TO MANUF. GRAPH TO OBTAIN PRESSURE LOSS:	SUBTRACT VALUE OF "F4" 16.0
SUBTOTAL	
G. PRESSURE LOSS FOR FUTURE ALLOWANCE:	SUBTRACT VALUE OF "G" 0.0
SUBTOTAL	
H. PRESSURE LOSS THROUGH TANKLESS WATER HEATERS, COMBINATION BOILER/WATER HEATERS, HEAT EXCHANGERS WHICH SERVE THE CONTROLLING FIXTURE:	SUBTRACT VALUE OF "H" 0.0
SUBTOTAL	
I. DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING FIXTURE IN FEET: FEET X 1.5: 350	DIVIDE BY VALUE OF "I" 525
SUBTOTAL	
A. PRESSURE AVAILABLE FOR UNIFORM LOSS	MULTIPLY BY: 0.042
SUBTOTAL	
WATER DISTRIBUTION PIPING IS: COPPER, TYPE L	
MULTIPLY BY: 100	
A (PSI/100 FT) 4.2	

PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACCT S.3874.
- INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
- P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

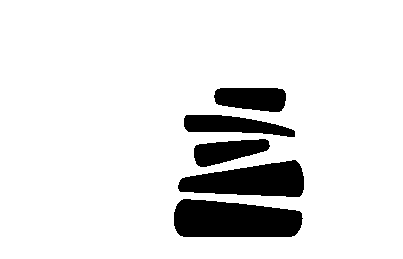
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATINGS, AND FINISH.
 - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
 - SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
 - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
 - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES, COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
 - DO NOT BLOCK TUBE FULL OR EQUIPMENT SERVICE CLEARANCES.
 - MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
 - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
 - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
 - THERE ARE SIGNIFICANT DIFFERENCES BETWEEN THE VRF SYSTEM MANUFACTURERS. REPRESENTATIVES INCLUDE THE PRECISE QUANTITY AND SIZES OF ALL EQUIPMENT, COMPONENTS, REFRIGERANT PIPING, CONDENSATE PIPING, ELECTRICAL CONNECTIONS, CONTROLS, ETC. NECESSARY TO MAKE THE SYSTEM FULLY OPERATIONAL AND MAINTAIN ZONING CONTROL AS INDICATED ON DOCUMENTS PRIOR TO BID. THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH IN HIS BID, INCLUDING ANY REQUIREMENTS OVER AND ABOVE THAT INCLUDE IN THE CONTRACT DOCUMENTS.



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Revision Date

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7662

City Project No.
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Sheet Issue Date
BID DOCUMENTS 11/30/2018

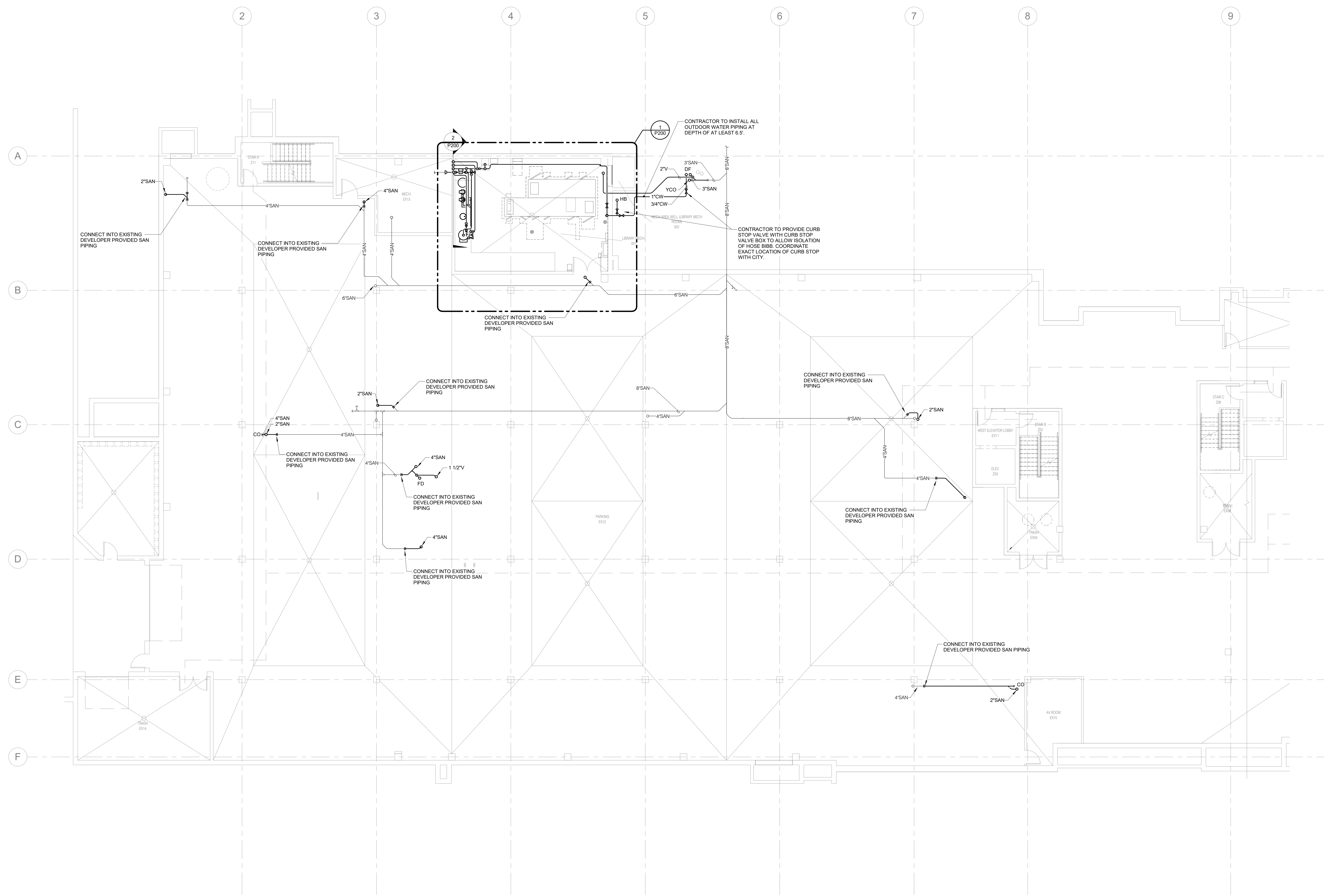
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PLUMBING COVER SHEET

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1 LEVEL 0 FLOOR PLAN - PLUMBING
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Sheet Name
LEVEL 0 FLOOR PLAN - PLUMBING

Sheet Number
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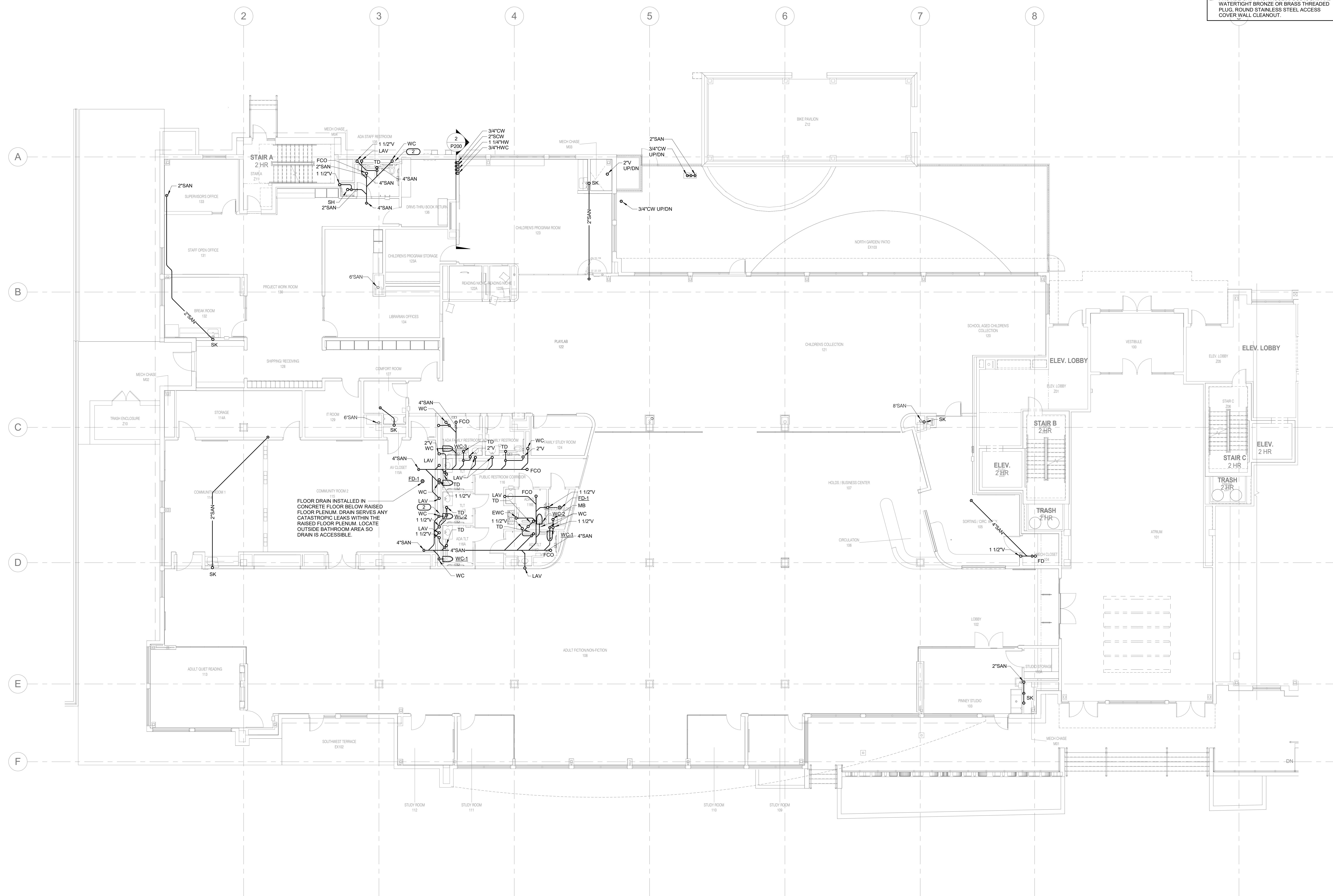
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- GENERAL NOTES:**
1. ALL PIPING SHOWN ON THIS FLOOR PLAN IS ROUTED IN THE RAISED FLOOR PLENUM. SUPPORT PIPING FROM FLOOR SLAB AND ROUTE WITHIN CLEAR SPACE OF RAISED FLOOR PLENUM. COORDINATE CLEARANCES WITH RAISED FLOOR PLENUM MANUFACTURER.
 2. PROVIDE CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, ROUND STAINLESS STEEL ACCESS COVER WALL CLEANOUT.



FLOOR DRAIN INSTALLED IN CONCRETE FLOOR BELOW RAISED FLOOR PLENUM. DRAIN SERVES ANY CATASTROPHIC LEAKS WITHIN THE RAISED FLOOR PLENUM. LOCATE OUTSIDE BATHROOM AREA SO DRAIN IS ACCESSIBLE.

1 LEVEL 1 UNDER RAISED FLOOR PLAN - PLUMBING
1/8" = 1'-0"

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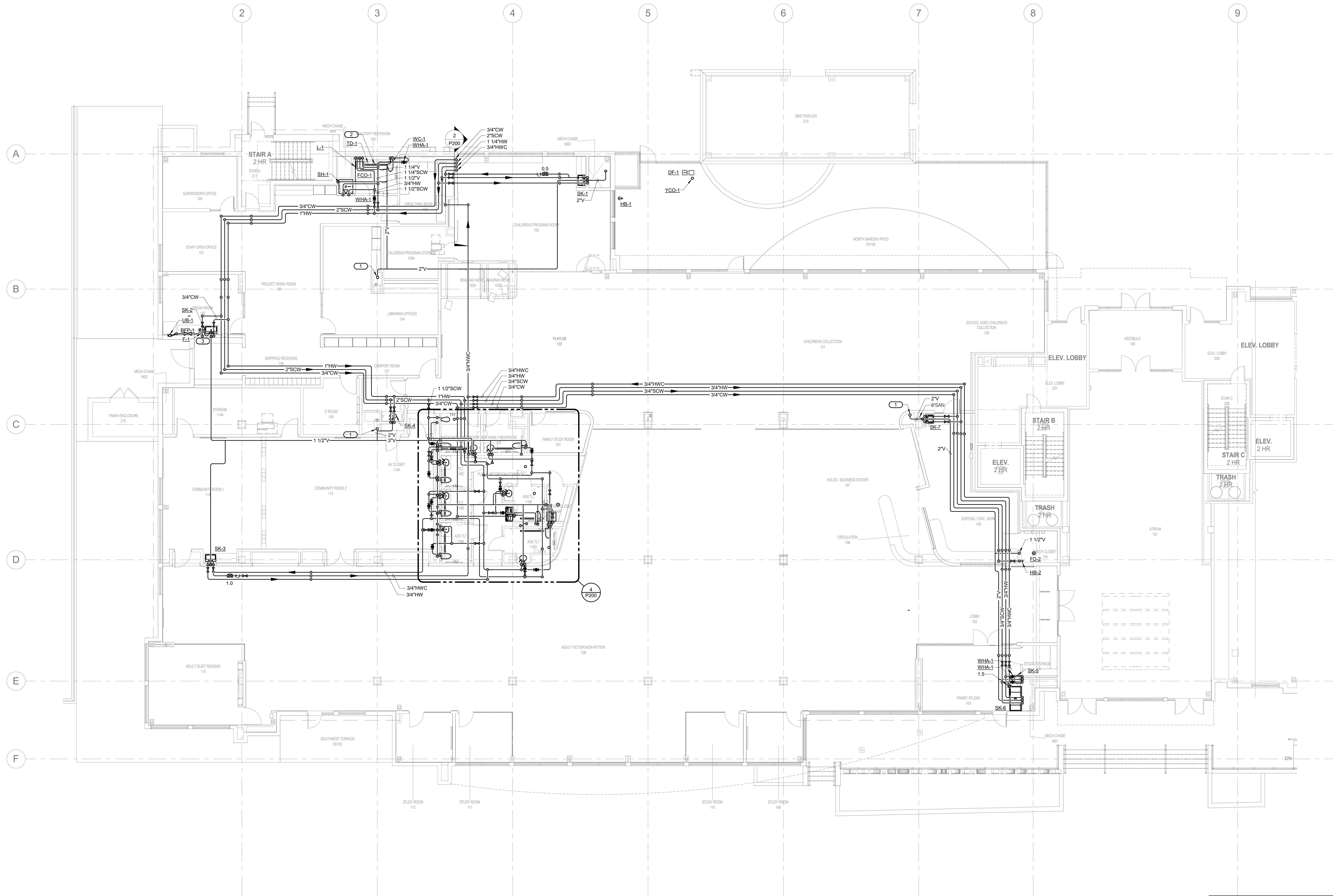
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Sheet Issue Date 11/30/2018
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Sheet Name LEVEL 1 UNDER RAISED FLOOR PLAN - PLUMBING
Sheet Number P101

- KEYNOTES:** (7)
- CONNECT INTO EXISTING 4" VENT STACK. P.C. TO MAKE NEW CONNECTION INTO EXISTING VENT STACK.
 - REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF TRENCH DRAIN AND INSTALLATION DETAILS.
 - ROUTE 3/4" CW DOWN TO WHITHIN SINK CABINET. PROVIDE E-1 WITHIN SINK CABINET IN CW LINE. CW LINE SHALL THAN TEE TO UB-1 AND SK-2'S FEEDS TO FILTER SERVES BOTH FIXTURES.



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1 LEVEL 1 FLOOR PLAN - PLUMBING
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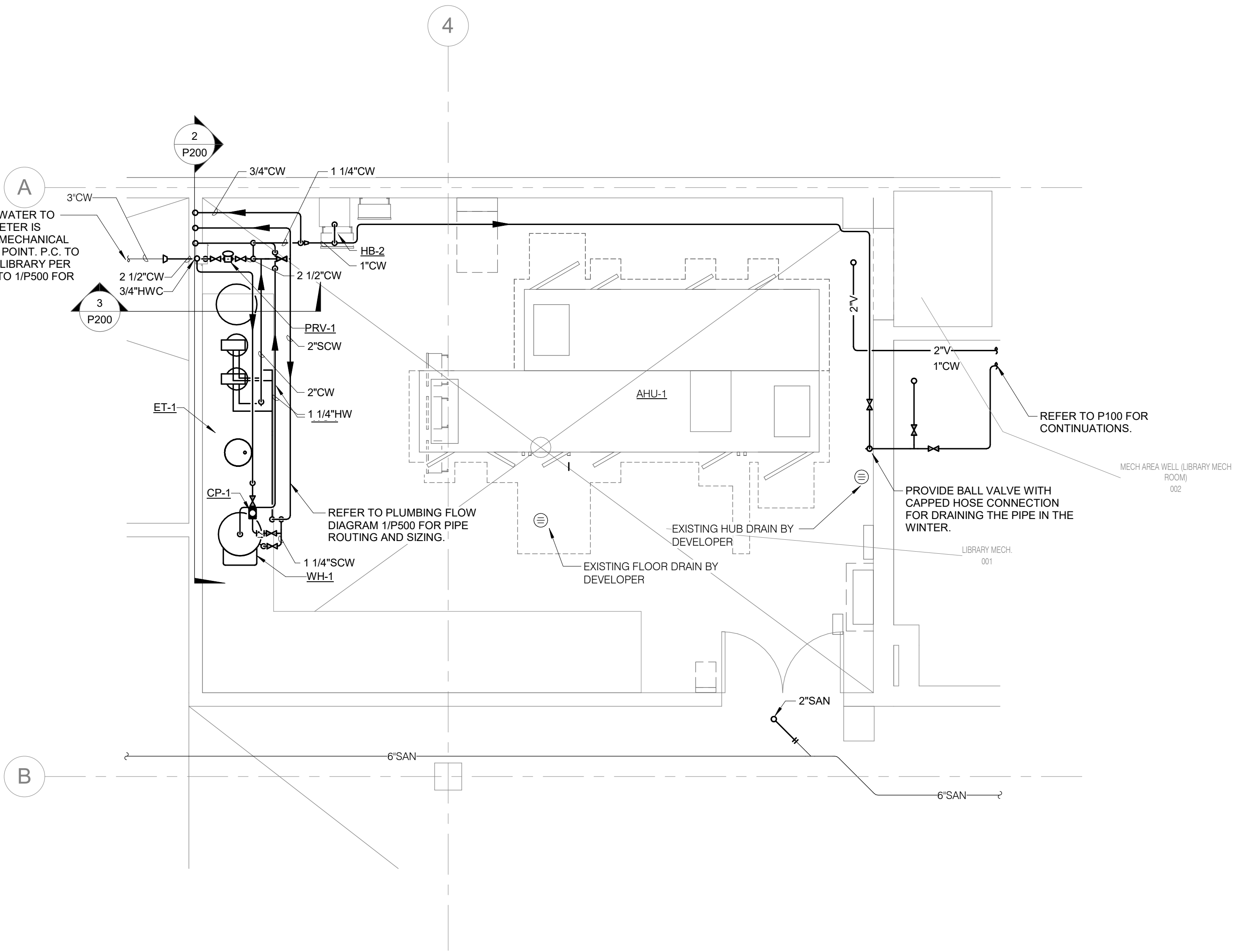
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LEVEL 1 FLOOR PLAN - PLUMBING

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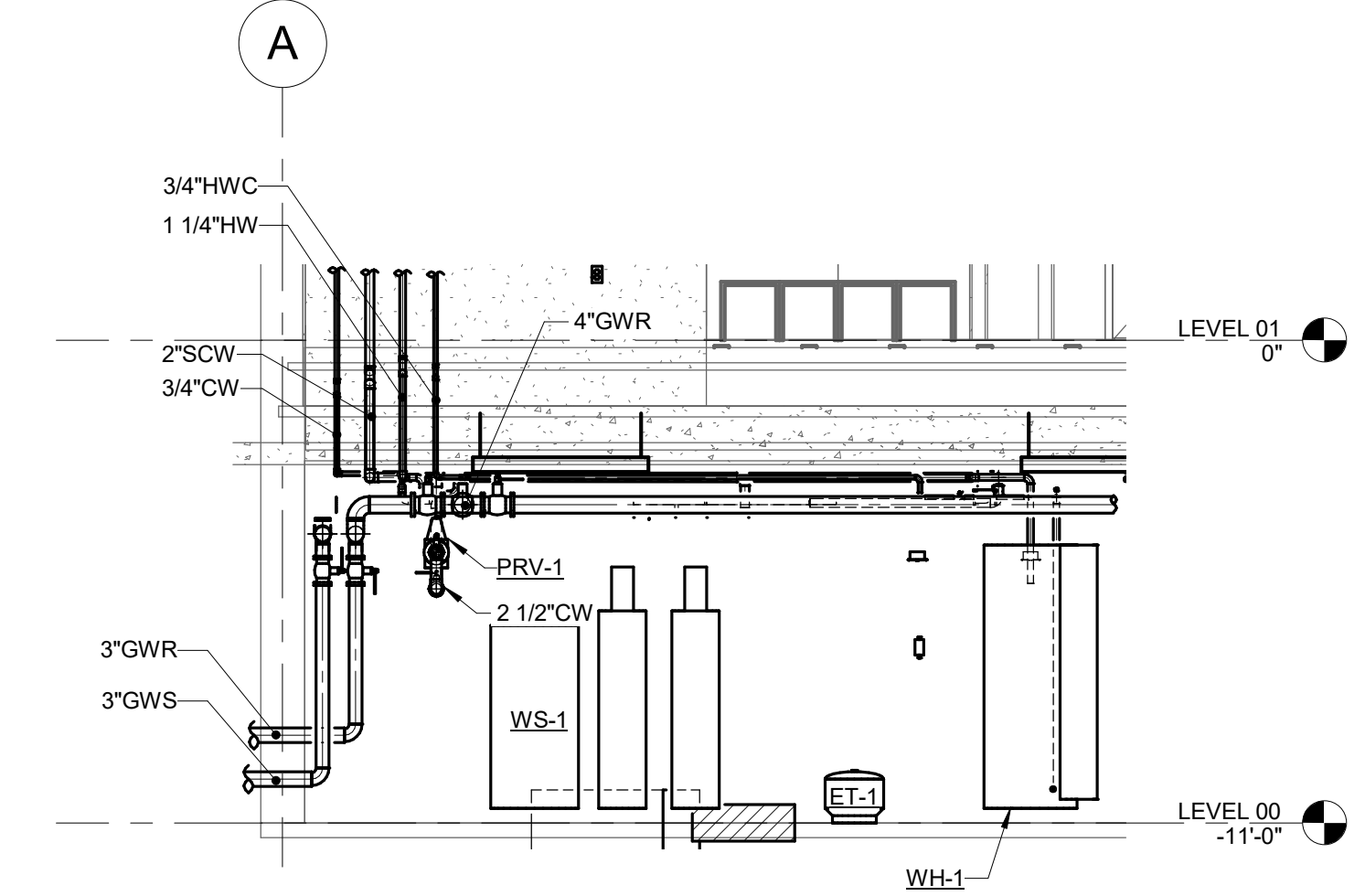
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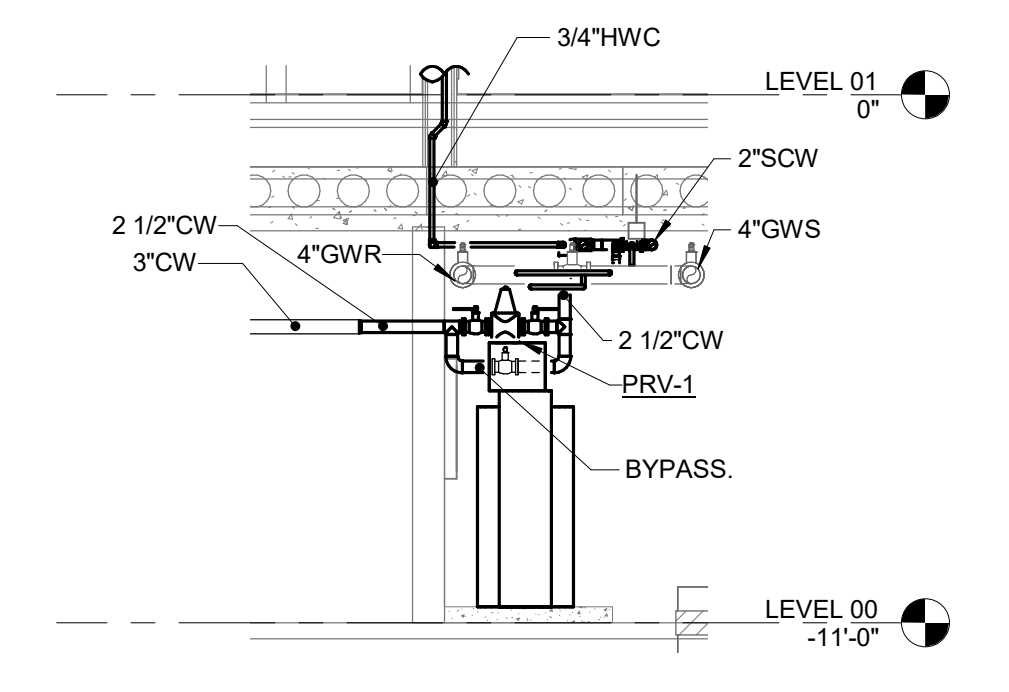
- KEYNOTES:**
1. P.C. TO PROVIDE STRUCTURAL STAND UNDER ACCESS FLOOR TO SUPPORT FLOOR MOUNTED WATER CLOSET. STRUCTURAL STAND SHALL BE BOLTED TO STRUCTURAL SLAB. BOLT WATER CLOSET TO STRUCTURAL STAND. COORDINATE INSTALLATION WITH RAISED FLOOR MANUFACTURER.
 2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF TRENCH DRAIN AND INSTALLATION DETAILS.



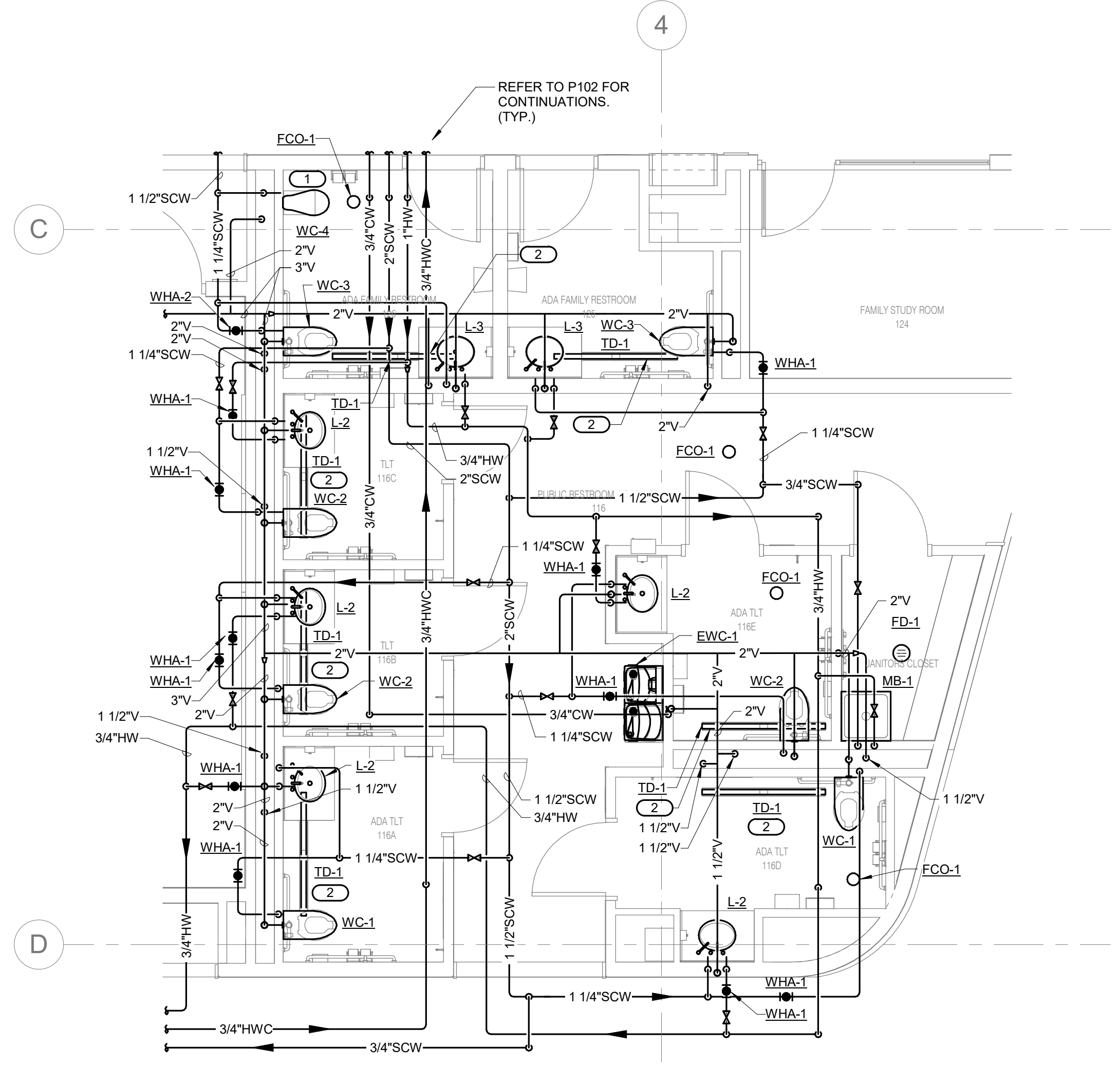
1 ENLARGED PLAN - LIB. MECH. - PLUMBING
1/4" = 1'-0"



2 SECTION FOR MECH. ROOM PLUMBING
1/4" = 1'-0"



3 SECTION FOR MECH. ROOM PLUMBING
1/4" = 1'-0"



4 ENLARGED PLAN - BATHROOM GROUPS - PLUMBING
1/4" = 1'-0"

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Sheet Name **ENLARGED PLANS AND SECTIONS - PLUMBING**

Sheet Number **P200**

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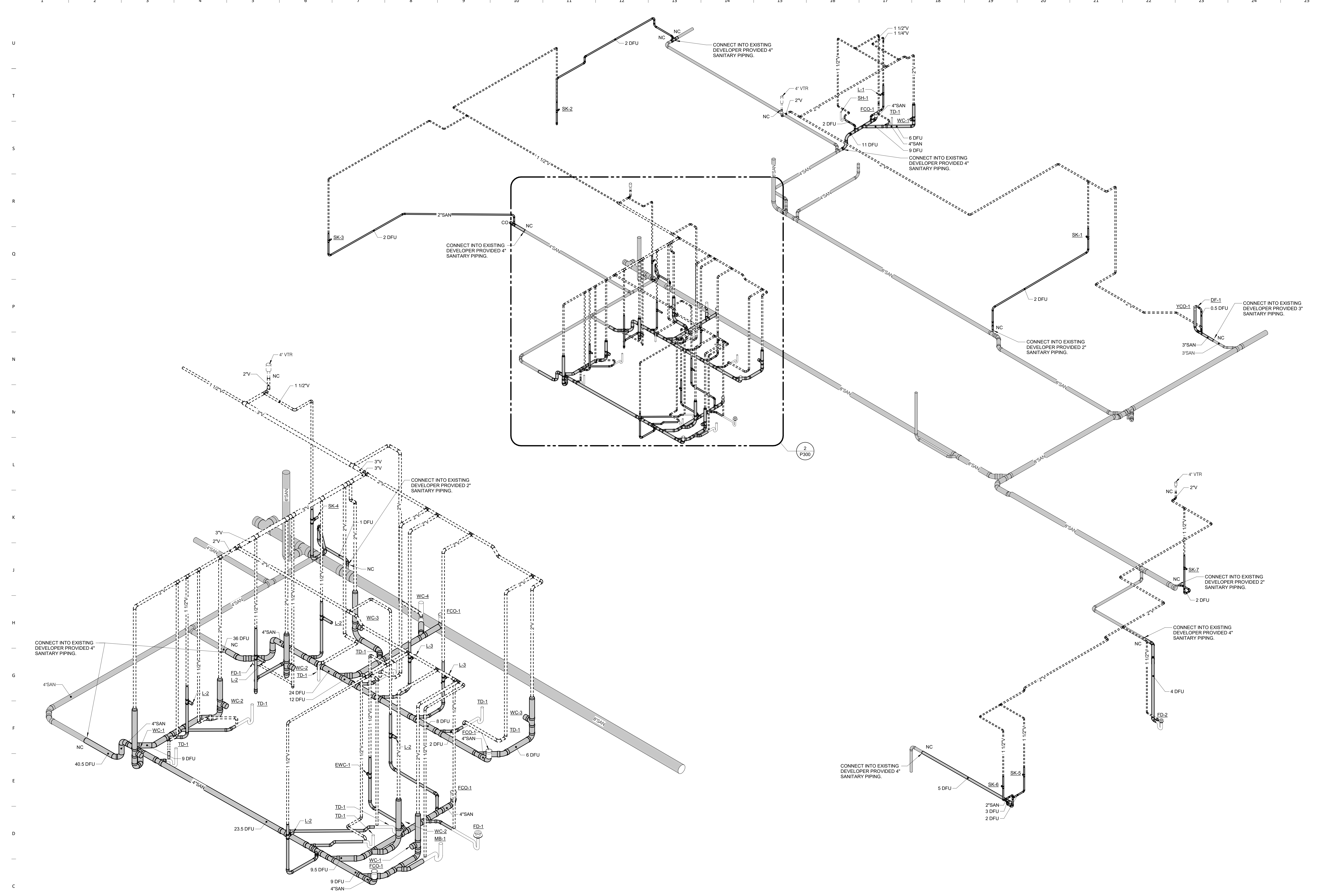


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2 ENLARGED PLAN FOR SAN-VENT RISER DIAGRAMS - PLUMBING
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1 SAN-VENT RISER DIAGRAMS - PLUMBING
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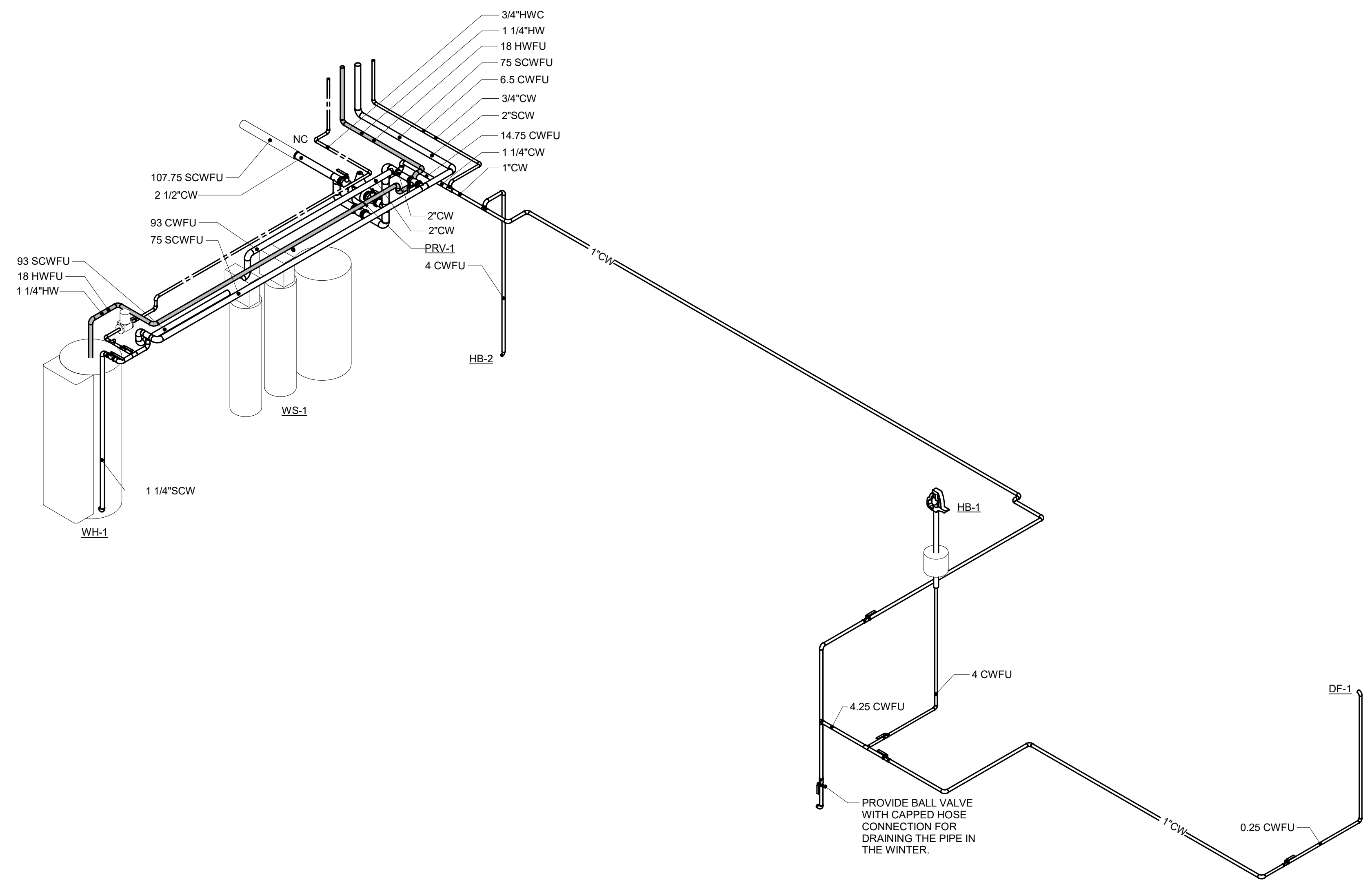
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1 DOMESTIC RISER DIAGRAMS - LEVEL 0 - PLUMBING
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Sheet Name
RISER DIAGRAMS - PLUMBING

Sheet Number
P301



MADISON PUBLIC LIBRARY



MADISON PUBLIC LIBRARY Foundation

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MADISON, WI



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Key Plan

Revision Date

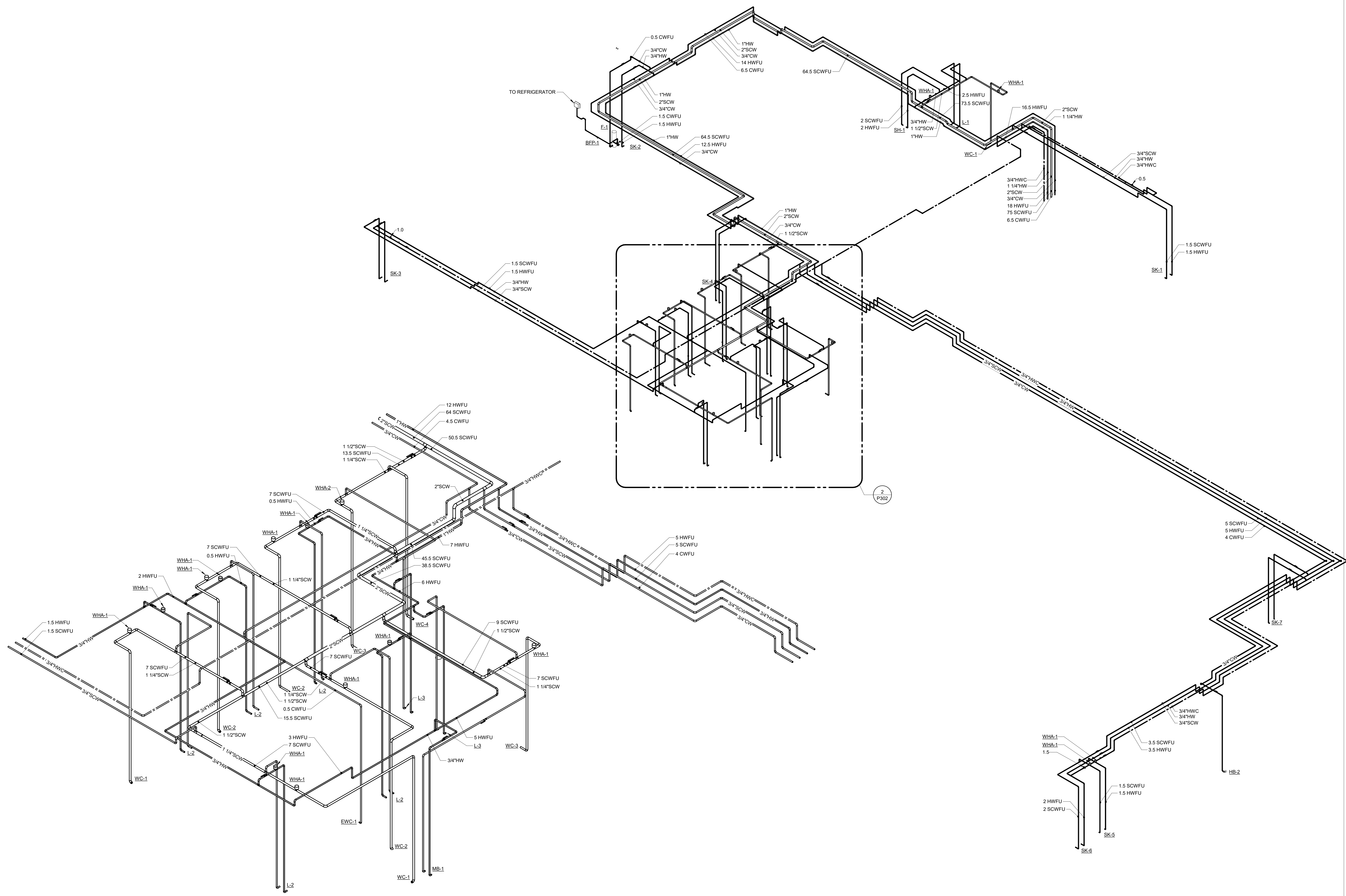
City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
RISER DIAGRAMS - PLUMBING

Sheet Number
P302



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2 ENLARGED PLAN FOR DOMESTIC RISER DIAGRAMS - LEVEL 1 - PLUMBING
NO SCALE

1 DOMESTIC RISER DIAGRAMS - LEVEL 1 - PLUMBING
NO SCALE

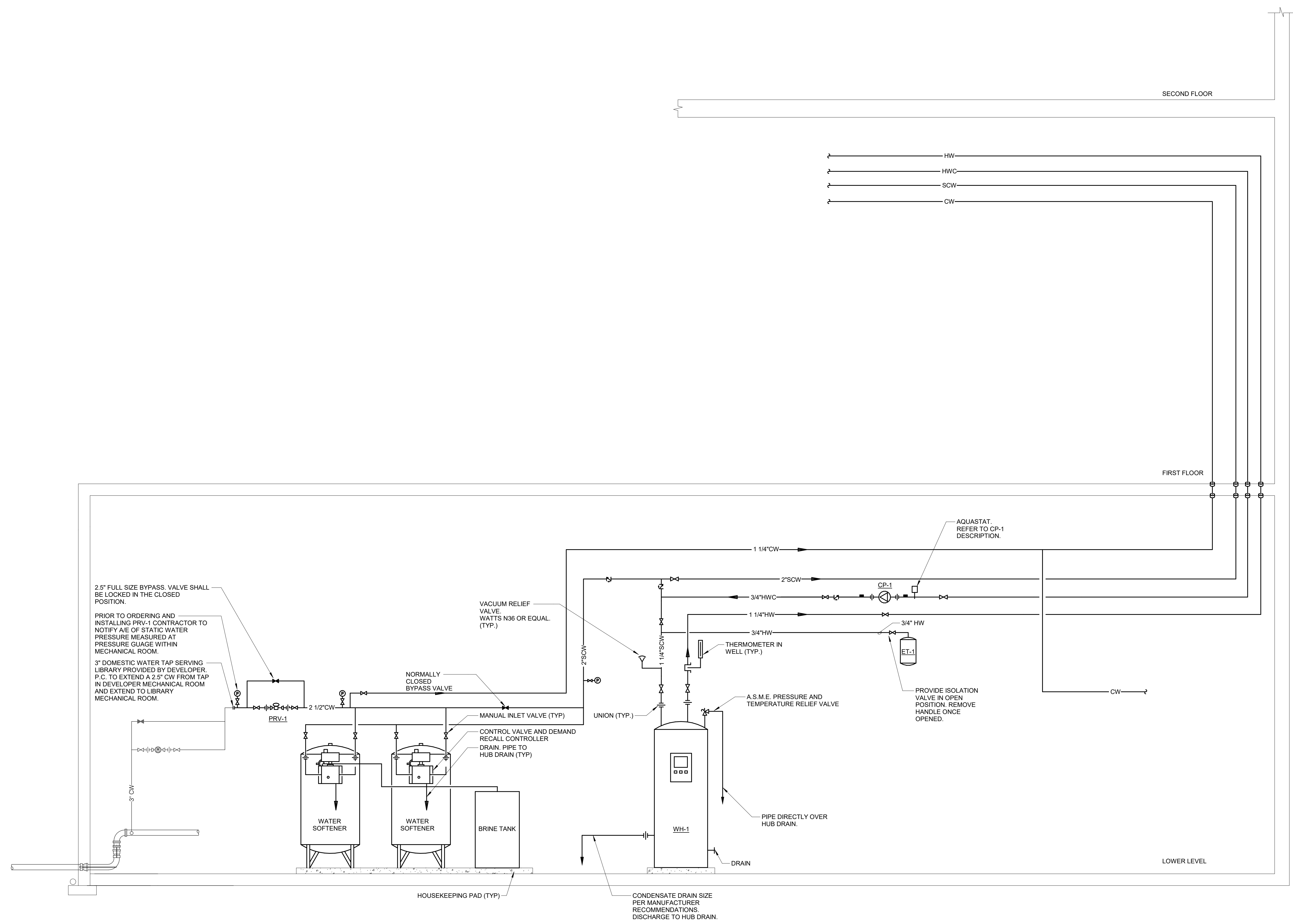
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1 PLUMBING FLOW DIAGRAM
NO SCALE

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City Contract No. **7662**

OPN Project No. **17609000**

Sheet Issue Date **11/30/2018**

Sheet Name **PLUMBING DIAGRAMS**

Sheet Number **P500**

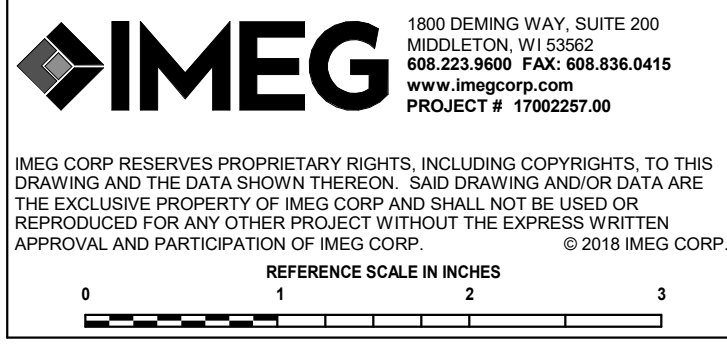
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PLUMBING FIXTURE SCHEDULE table with columns: TAG NAME, DESCRIPTION, MANF. & MODEL. Includes items like BFP-1, CP-1, DF-1, ET-1, EWC-1, F-1, FCO-1, FD-1, HB-1, HB-2, L-1, L-2, L-3.

PLUMBING FIXTURE SCHEDULE table with columns: TAG NAME, DESCRIPTION, MANF. & MODEL. Includes items like MB-1, PRV-1, SH-1, SK-1, SK-2, SK-3, SK-4, SK-5, SK-6.

PLUMBING FIXTURE SCHEDULE table with columns: TAG NAME, DESCRIPTION, MANF. & MODEL. Includes items like SK-7, TD-1, UB-1, WC-1, WC-2, WC-3, WC-4, WH-1, WHA-1, WHA-2, WS-1, YCO-1.

OPN ARCHITECTS logo and contact info. MADISON PUBLIC LIBRARY logo and address. IMEG logo and address. Project info: PINNEY NEIGHBORHOOD LIBRARY, 516 COTTAGE GROVE ROAD, MADISON, WI.



Sheet Name: PLUMBING SCHEDULES. Date: 11/30/2018. Scale: REFERENCE SCALE IN INCHES. Includes a scale bar from 0 to 3 inches.

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VIEW KEY

NAME — LEVEL NAME — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL.

10' - 0" — HEIGHT ABOVE PROJECT 0' - 0"

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

M101 — SHEET DETAIL IS LOCATED ON

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY ELEVATION

T101 — SHEET DETAIL IS LOCATED ON

LINE TYPE KEY

NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)

NEW WORK UNDER FLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)

NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)

EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 05/29/2018.

1 HOUR FIRE BARRIER	---
2 HOUR FIRE BARRIER	----

CONTRACTOR ABBREVIATION KEY

ABBR.	DESCRIPTION:
A.V.C.	AUDIOVISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR

FIRE PROTECTION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CAF	COMPRESSED AIR - FIRE PROTECTION
DFP	DRAIN
FP	FIRE PROTECTION
FPD	FIRE PROTECTION - DRY SYSTEM
W	SERVICE WATER - POTABLE
PCAP	PIPE CAP
PD	PIPE DOWN
PU	PIPE UP OR UP/DOWN
NC	NEW CONNECTION
UF	UNION/FLANGE
FD	DIRECTION OF FLOW IN PIPE
RD	ROUTE TO DRAIN
SV	SHUTOFF VALVE NORMALLY OPEN
ADV	AUTOMATIC DRAIN VALVE
AMP	AIR PRESSURE MAINTENANCE DEVICE
ASW	AIR SUPERVISORY SWITCH
AV	ANGLE VALVE
BV	BUTTERFLY VALVE WITH MONITOR SWITCH
CV	CHECK VALVE
ITDV	INSPECTOR TEST AND DRAIN VALVE
OGV	OS&Y GATE VALVE
OGVMS	OS&Y GATE VALVE WITH MONITOR SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
PG	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
MS	MONITOR SWITCH
AB	AREA BOUNDARY
NH	NO HATCH
OG1	ORDINARY GROUP 1
OG2	ORDINARY GROUP 2
DEM	DEMOLITION
EG1	EXTRA GROUP 1
EG2	EXTRA GROUP 2
SM	SPRINKLER - WALL MOUNTED
SP	SPRINKLER
SC	SPRINKLER - CONCEALED
SP	SPRINKLER
SP	SPRINKLER
SP	SPRINKLER
SP	SPRINKLER
SP	SPRINKLER
SP	SPRINKLER
SP	SPRINKLER

FIRE PROTECTION ABBREVIATION KEY

ABBR.	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
I.E.	INVERT ELEVATION
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

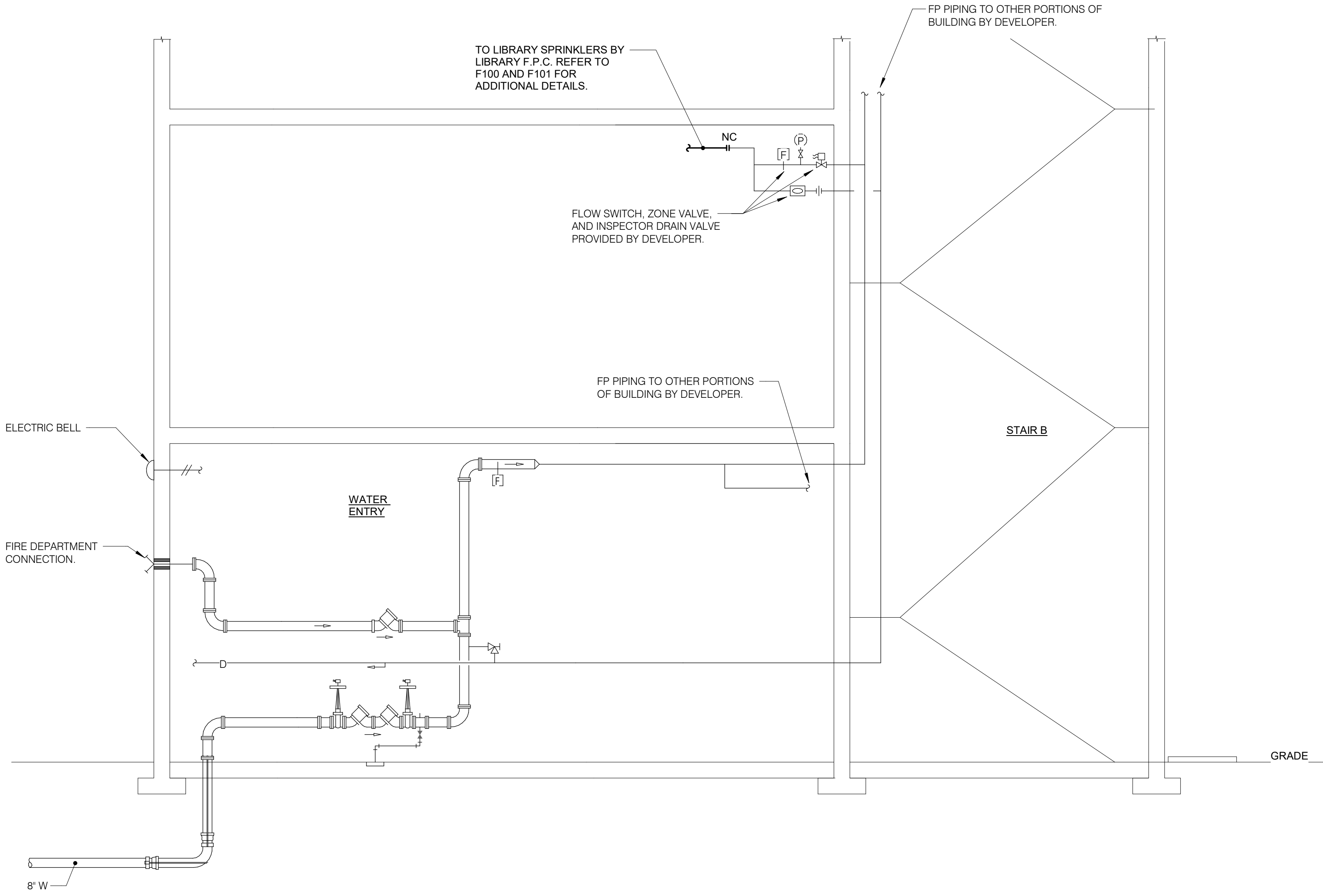
FIRE HYDRANT FLOW TEST DATA

TEST DATE:	UNKNOWN
HYDRANT #:	2061
HYDRANT ELEVATION:	865'
LOCATION:	PINNEY STREET AND ROYSTER OAKS DR.
STATIC PRESSURE:	75 PSI
RESIDUAL PRESSURE:	69 PSI
TOTAL FLOW:	1000 GPM PER MODEL TEST

INFORMATION OBTAINED FROM DEVELOPER'S FIRE PROTECTION DRAWINGS. SHEET FP-1 OF ROYSTER CROSSING 521 GRAND OAK TRAILS PROJECT DATED 08/18/18. REFER TO DEVELOPER AND DEVELOPER'S FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SITE AND DEVELOPER'S FIRE PROTECTION SYSTEM.

- ### GENERAL NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
 - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
 - SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
 - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
 - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
 - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
 - MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
 - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
 - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
 - THERE ARE SIGNIFICANT DIFFERENCES BETWEEN THE VRF SYSTEM MANUFACTURERS. THE MECHANICAL CONTRACTOR SHALL CONFIRM WITH THE MANUFACTURER'S REPRESENTATIVES INCLUDE THE PRECISE QUANTITY AND SIZES OF ALL EQUIPMENT, COMPONENTS, REFRIGERANT PIPING, CONDENSATE PIPING, ELECTRICAL CONNECTIONS, CONTROLS, ETC. NECESSARY TO MAKE THE SYSTEM FULLY OPERATIONAL AND MAINTAIN ZONING CONTROL AS INDICATED ON DOCUMENTS PRIOR TO BID. THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH IN HIS BID, INCLUDING ANY REQUIREMENTS OVER AND ABOVE THAT INCLUDE IN THE CONTRACT DOCUMENTS.

- ### FIRE PROTECTION GENERAL NOTES:
- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
 - CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
 - FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
 - CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'x4' CEILING TILES CENTERING USING A 2'x2' CEILING PATTERN IS ACCEPTABLE.
 - NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
 - PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE.
 - PROVIDE COVERAGE ABOVE AND BELOW FLOATING CEILINGS, REFER TO ARCHITECTURAL PLANS.
 - FIRE PROTECTION CONTRACTOR TO REMOVE ANY EXISTING FIRE PROTECTION PIPING THAT HAS BEEN INSTALLED AS PART OF SHELL SPACE.
- ### FIRE PROTECTION SHEET INDEX
- | | |
|------|--------------------------------------|
| F000 | FIRE PROTECTION COVER SHEET |
| F100 | LEVEL 0 FLOOR PLAN - FIRE PROTECTION |
| F101 | LEVEL 1 FLOOR PLAN - FIRE PROTECTION |



1 FIRE PROTECTION RISER DIAGRAM

NO SCALE

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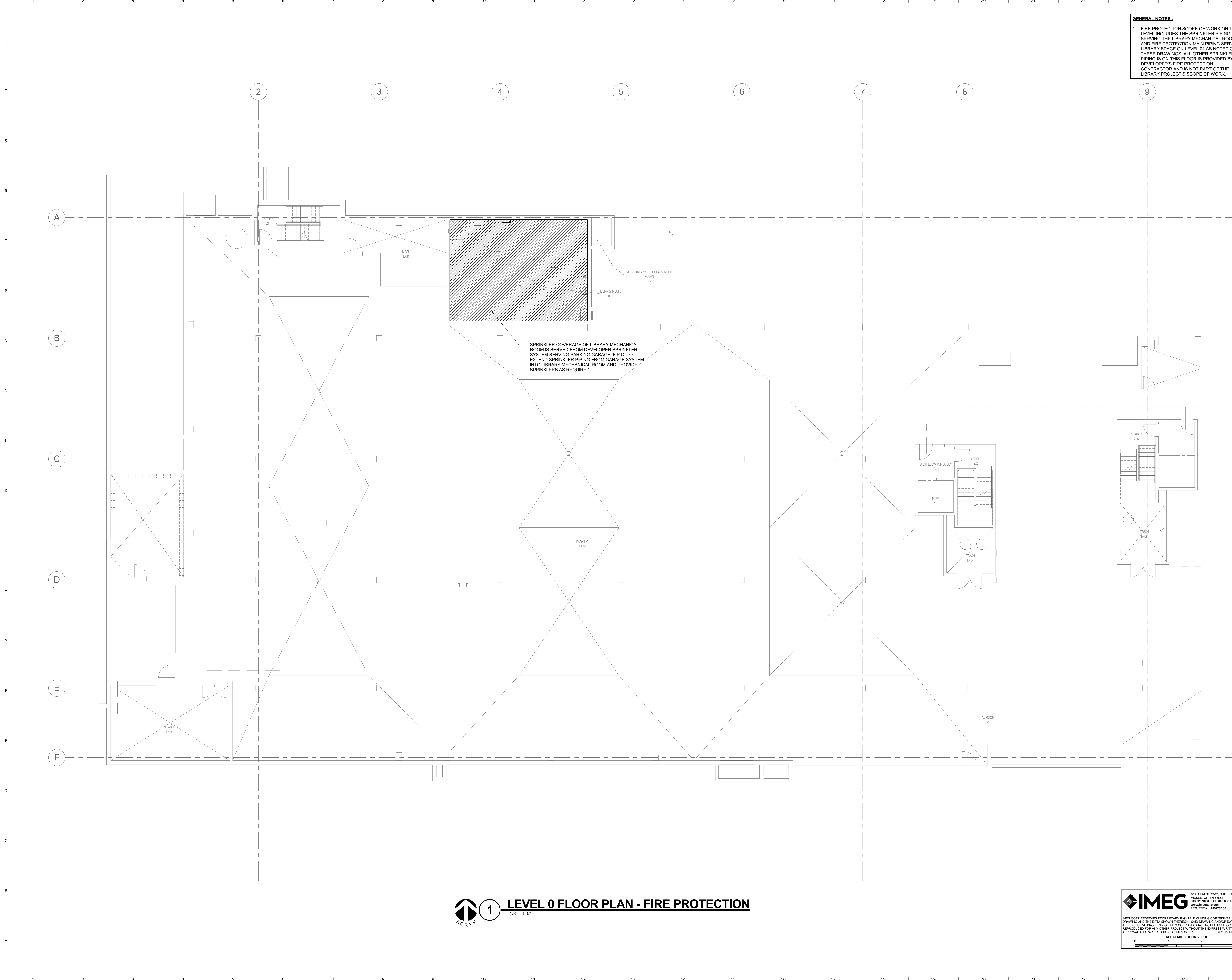
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Key Plan

Revision	Date

City Contract No.	7662
OPN Project No.	17609000
Sheet Issue Date	BID DOCUMENTS 11/30/2018
Sheet Name	FIRE PROTECTION COVER SHEET
Sheet Number	F000

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GENERAL NOTES:
1. FIRE PROTECTION SCOPE OF WORK ON THIS LEVEL INCLUDES THE SPRINKLER PIPING SERVING THE LIBRARY MECHANICAL ROOM AND FIRE PROTECTION MAIN PIPING SERVING LIBRARY SPACE ON LEVEL 01 AS NOTED ON THESE DRAWINGS. ALL OTHER SPRINKLER PIPING IS ON THIS FLOOR IS PROVIDED BY DEVELOPER'S FIRE PROTECTION CONTRACTOR AND IS NOT PART OF THE LIBRARY PROJECT'S SCOPE OF WORK.



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LEVEL 0 FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

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City Contract No.
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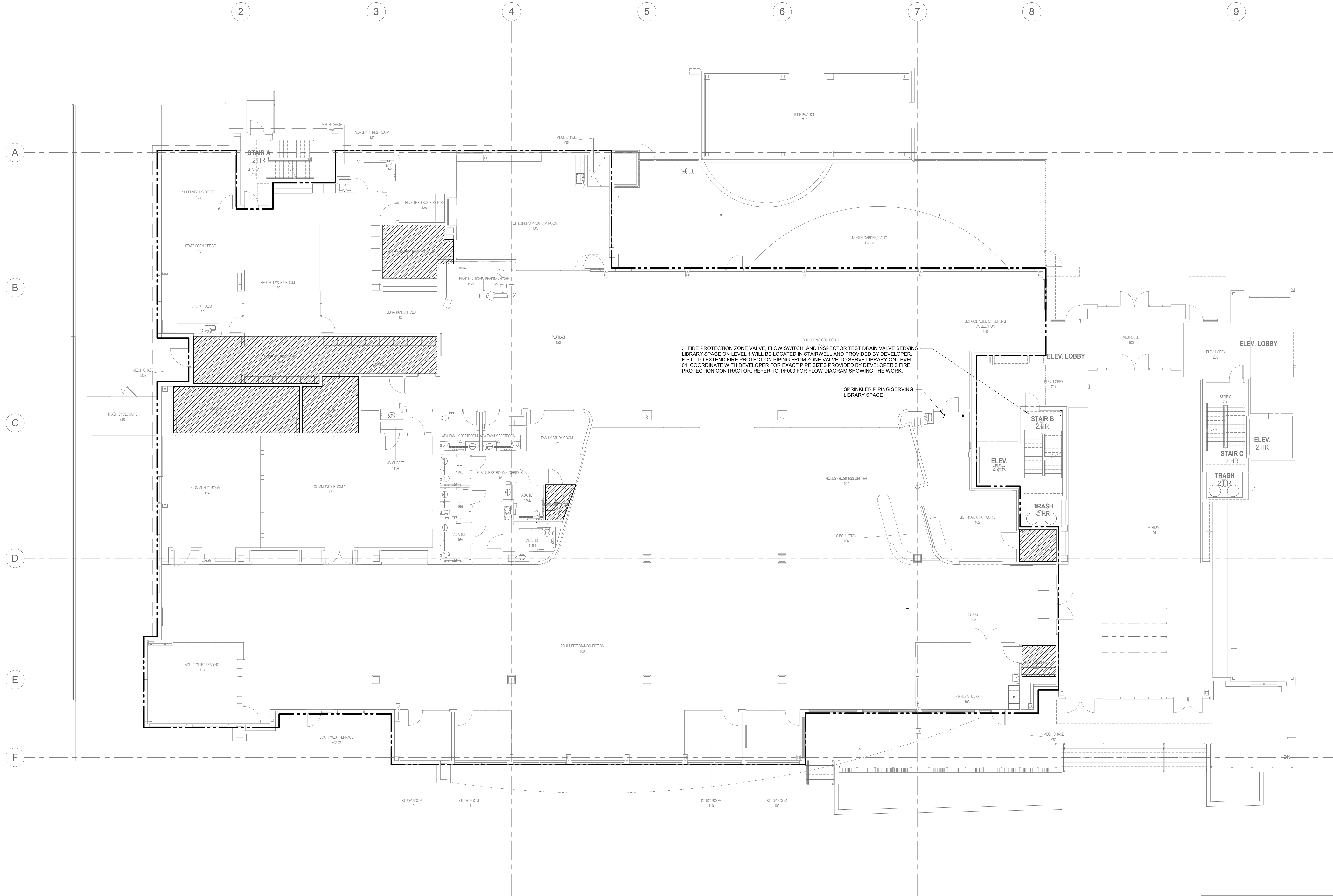
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Sheet Name
LEVEL 0 FLOOR PLAN - FIRE PROTECTION

Sheet Number
F100



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1 LEVEL 1 FLOOR PLAN - FIRE PROTECTION
 1/8" = 1'-0"

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Revision _____ Date _____

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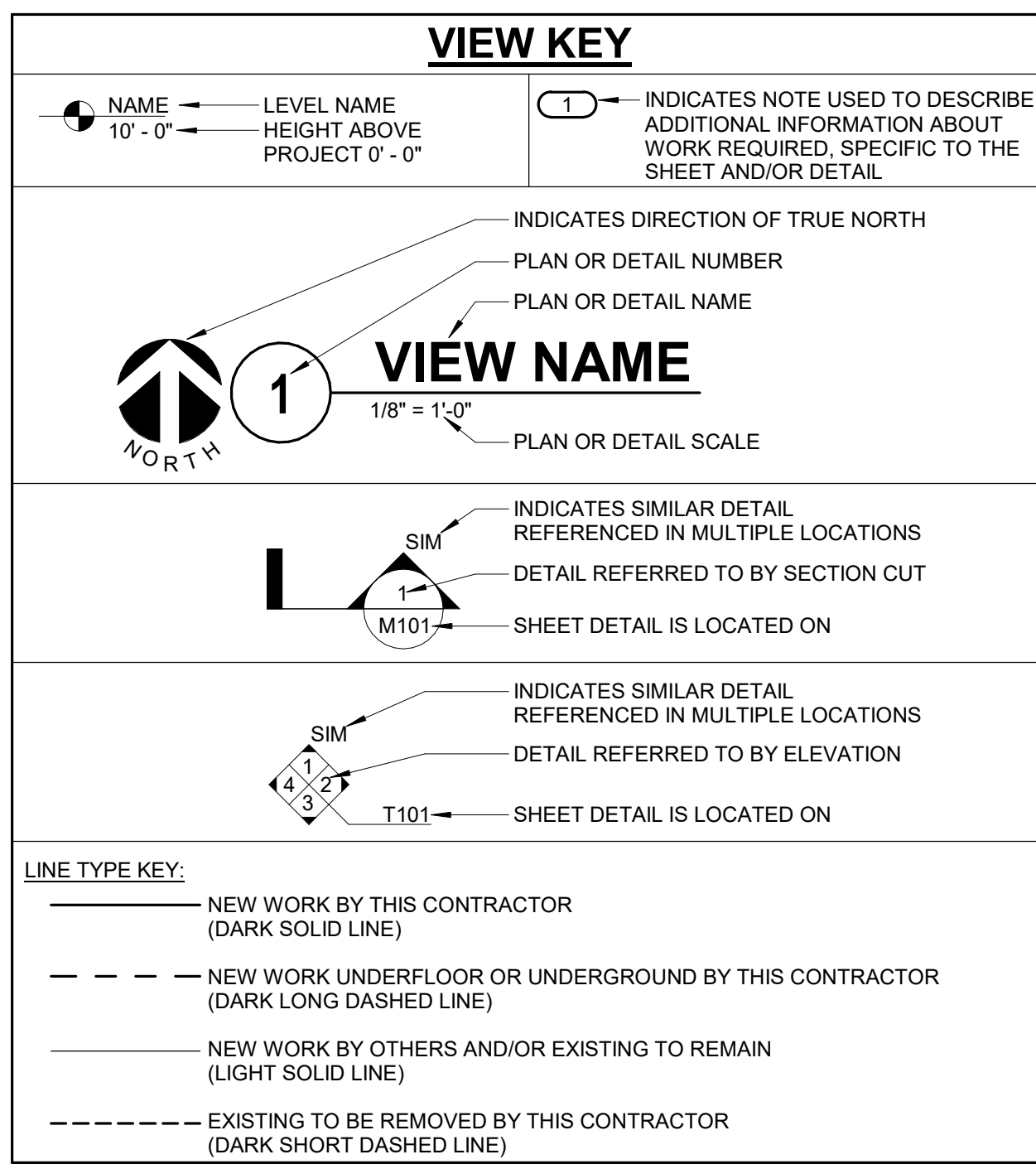
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Sheet Issue Date **11/30/2018**

Sheet Name **LEVEL 1 FLOOR PLAN - FIRE PROTECTION**

Sheet Number **F101**

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CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIOVISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR

TECHNOLOGY SYMBOL LIST

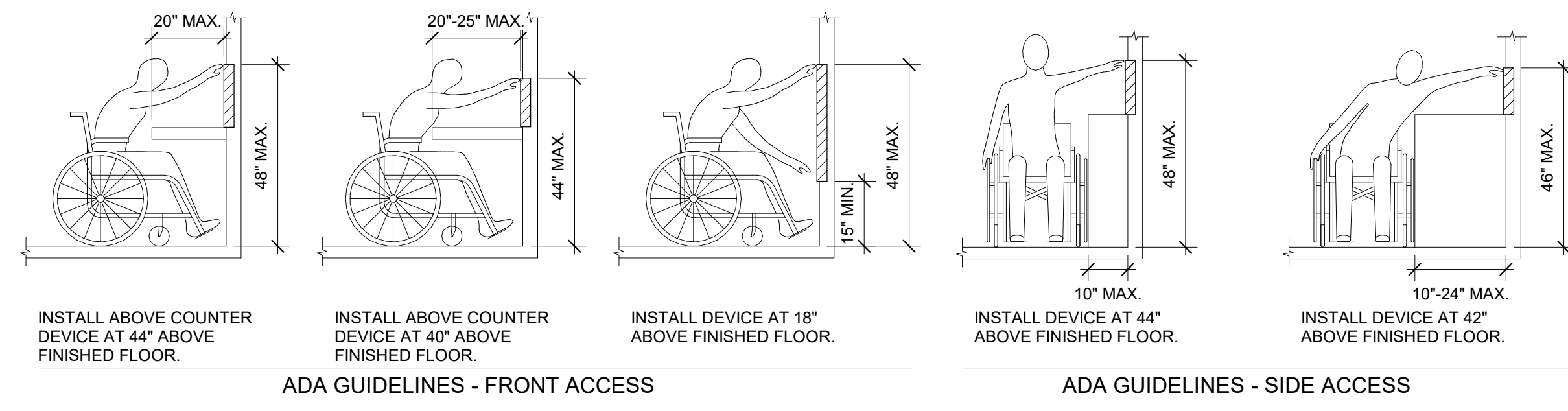
SYMBOL:	EQUIPMENT TAG:	DESCRIPTION:	NOTE:
CR	AC-CR-W	ACCESS CONTROL CREDENTIAL READER	2.
CSS	N/A	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	2.
CM	AV-CM1-W	AUDIO/VIDEO CAMERA (POLYCOM) - TYPE 1	.
MP	AV-MP2-C	MICROPHONE (CEILING) TYPE 2	.
RS	AV-RS-W	ROOM SCHEDULER (WALL) - TYPE 1	.
SP	AV-SP1-C	PERFORMANCE AUDIO SPEAKER (CEILING) - TYPE 1	.
SP1	AV-SP1-W	PERFORMANCE AUDIO SPEAKER (WALL) - TYPE 1	.
TP	AV-TP-W	AUDIO/VIDEO TOUCH PANEL (WALL)	.
WP	AV-WP1-W	AUDIOVISUAL FACEPLATE (WALL) - TYPE 1	.
SC-IO-CWAP	SC-IO-CWAP	WIRELESS ACCESS POINT INFORMATION OUTLET (CEILING)	1.
SC-IO-C	SC-IO-C	INFORMATION OUTLET (CEILING)	1.
SC-IO-W	SC-IO-W	INFORMATION OUTLET (WALL)	1.
SC-IO-F	SC-IO-F	INFORMATION OUTLET (FLOOR)	1., 4.
CF	N/A	ELECTRICAL FLOOR BOX WITH TECHNOLOGY	1., 4.
HH	N/A	HANDHOLE	.
CAM # - #	N/A	CLOSED CIRCUIT TELEVISION (CCTV) SURFACE CAMERA	3.
CAM # - #	N/A	CLOSED CIRCUIT TELEVISION (CCTV) CEILING CAMERA	3.

WIDTH X HEIGHT	CABLE TRAY, CHANNEL TRAY, BASKET TRAY
WIDTH X HEIGHT	LADDER RACK
DIAMETER @ C	CONDUIT
→	CONDUIT DOWN
○	CONDUIT UP OR UP/DOWN
⌈	CONDUIT SLEEVE
⋮	CONTINUATION

- GENERAL NOTES:**
- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
 - ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
 - ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
- TECHNOLOGY SYMBOL NOTES:**
- "CF" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.
 - REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T601 FOR ADDITIONAL INFORMATION.
 - REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE ON T601 AND CAMERA TYPE SCHEDULE ON T601 FOR ADDITIONAL INFORMATION. SYMBOL SUBSCRIPT INDICATES FLOOR NUMBER-CAMERA NUMBER. A CAMERA HEIGHT IDENTIFIES THE HEIGHT FROM THE FLOOR TO THE CENTER OF THE CAMERA LENS. NO HEIGHT REFERS TO MOUNTING THE CAMERA ON THE CEILING. REFER TO THE INDIVIDUAL CAMERA SCHEDULE AND THE INDIVIDUAL CAMERA TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
 - INFORMATION OUTLET INSTALLED IN E.C. PROVIDED FLOOR BOX. "CF" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. REFER TO THE TECHNOLOGY FLOOR PLANS AND GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON SHEET T602 FOR ADDITIONAL INFORMATION.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFDI	OWNER FURNISHED, OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
HH	HANDHOLE



ADA STANDARDS FOR ACCESSIBLE DESIGN

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3, 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2, 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	T.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	E.C.	E.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM. REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7, 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2, 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
- UNLESS TRADE RULES DICTATE OTHERWISE.
- FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
- INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
MC-1	1/T300	1/T101	129

- ### TECHNOLOGY GENERAL NOTES:
- ###-### INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT TAG"
 - REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
 - H MOUNT ORIENTED HORIZONTALLY
 - L MOUNT IN CASEWORK
 - M MOUNT IN MODULAR FURNITURE
 - S MOUNT IN SURFACE RACEWAY
- A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G. A/H.

- ### TECHNOLOGY INSTALLATION NOTES:
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
 - CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
 - BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
 - VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
 - TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
 - ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E-814.
 - REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
 - ALL LADDER RACK AND CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 27 05 28 AND 27 11 00 FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.
 - FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

- ### TECHNOLOGY OUTSIDE PLANT NOTES
- THE LOCATION OF THE CONDUIT, HAND HOLES, AND MAINTENANCE HOLES SHOWN ARE APPROXIMATE LOCATIONS. FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIVATE AND/OR PUBLIC PRIOR TO THE INSTALLATION OF THE COMPONENT. FIELD COORDINATE THE FINAL LOCATION WITH THE OWNER AND ENGINEER PRIOR TO INSTALLATION.
 - POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES, IF APPLICABLE, SHALL BE INCLUDED IN THE CONTRACTOR'S BID. CONTRACTOR IS RESPONSIBLE FOR FINAL PLACEMENT OF HANDHOLES MAINTENANCE HOLES AND SHALL NOTIFY THE ENGINEER OF FINAL LOCATIONS PRIOR TO INSTALLATION.
 - HAND HOLES MAINTENANCE HOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE GROUND LINE.
 - REMOVAL AND REPLACEMENT OF THE EXISTING UNDERGROUND UTILITIES THAT ARE REQUIRED TO COMPLETE THE INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
 - CONTRACTOR SHALL INCLUDE WITHIN THEIR BID ANY REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, GRASS, SHRUBS, TREES, ETC. THAT WILL BE IMPACTED BY THE INSTALLATION OF THE NEW CONDUITS SHOWN ON THE DRAWINGS. IF TREES ARE REQUIRED TO BE REMOVED THE CONTRACTOR SHALL CONTACT THE OWNER AND DISCUSS OPTIONS PRIOR TO CUTTING DOWN ANY TREE OR SHRUB OVER 6' IN HEIGHT.
 - NO ADDITIONAL COST SHALL BE APPROVED FOR PLACING CONDUITS DEEPER THAN REQUIRED MINIMUM DEPTH TO AVOID EXISTING UNDERGROUND UTILITIES.
 - PROVIDE A MINIMUM OF 25-0" SLACK LOOP WITHIN EACH HAND HOLE MAINTENANCE HOLES. SLACK LOOP SHALL BE SECURE SO COPPER OR FIBER IS NOT RESTING ON EARTH AFTER FINAL INSTALLATION.

TECHNOLOGY SHEET INDEX

T000	TECHNOLOGY COVER SHEET
T050	SITE PLAN - TECHNOLOGY
T100	LEVEL 0 FLOOR PLAN - WEST - TECHNOLOGY
T101	LEVEL 1 FLOOR PLAN - TECHNOLOGY
T300	ENLARGED PLANS - TECHNOLOGY
T400	TECHNOLOGY DETAILS
T500	TECHNOLOGY DIAGRAMS
T501	TECHNOLOGY DIAGRAMS
T502	TECHNOLOGY DIAGRAMS
T600	TECHNOLOGY SCHEDULES
T601	TECHNOLOGY SCHEDULES
T602	GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

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Key Plan

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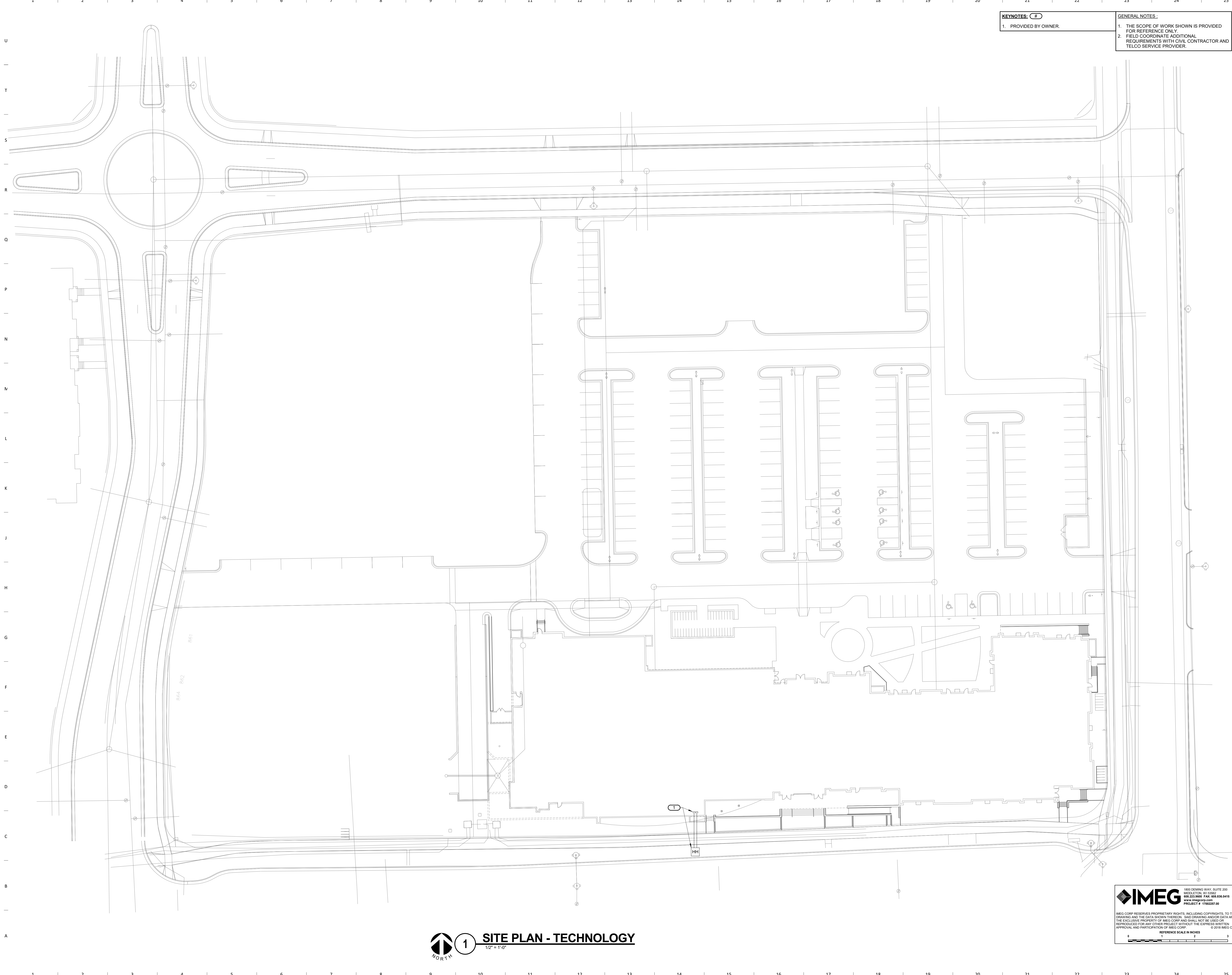
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Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
TECHNOLOGY COVER SHEET

Sheet Number
T000

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KEYNOTES: (C)

1. PROVIDED BY OWNER.

GENERAL NOTES:

1. THE SCOPE OF WORK SHOWN IS PROVIDED FOR REFERENCE ONLY.

2. FIELD COORDINATE ADDITIONAL REQUIREMENTS WITH CIVIL CONTRACTOR AND TELCO SERVICE PROVIDER.

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City Contract No.
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OPN Project No.
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Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
SITE PLAN - TECHNOLOGY

Sheet Number
T050

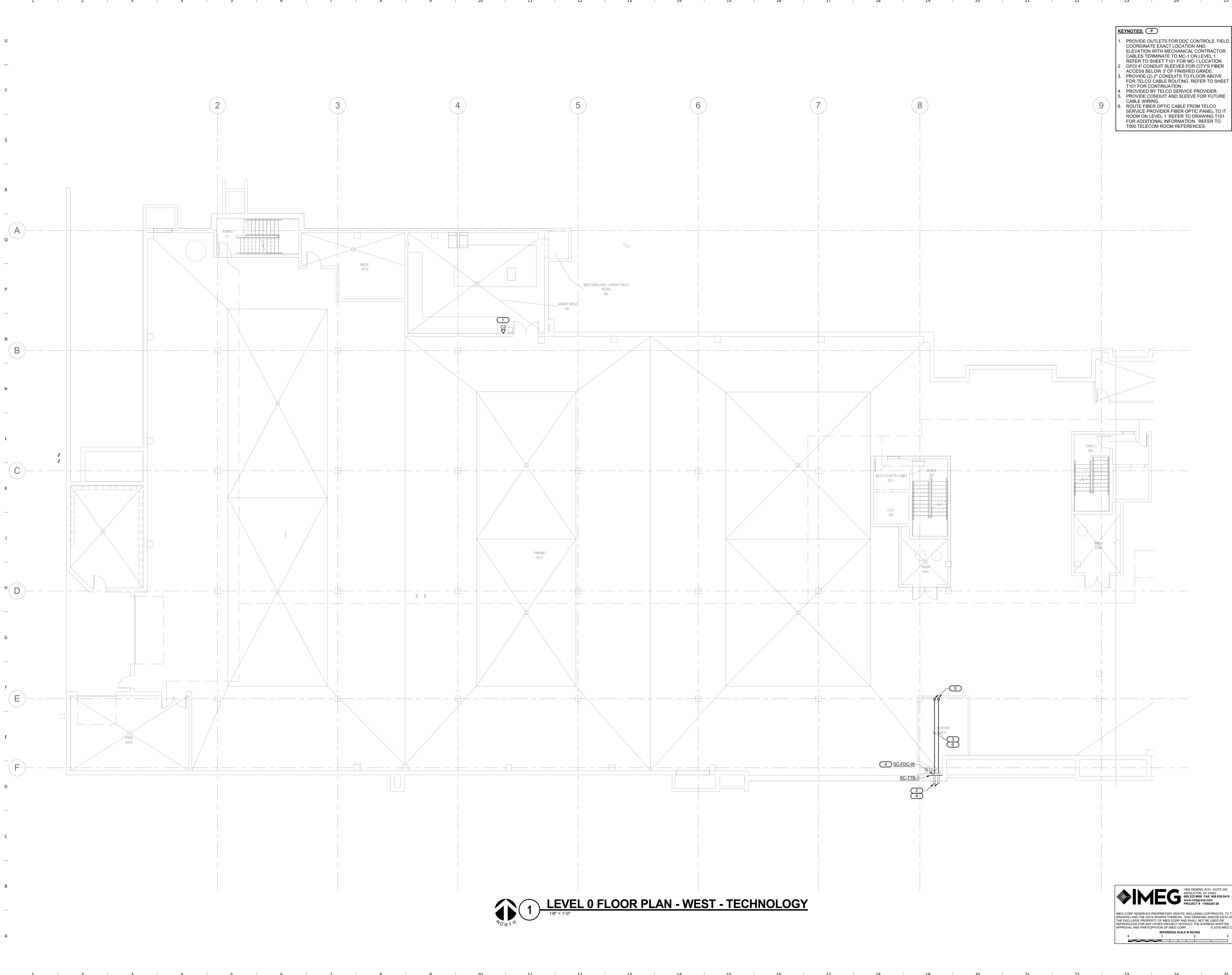
1 SITE PLAN - TECHNOLOGY
1/2" = 1'-0"

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- KEYNOTES:** (#)
1. PROVIDE OUTLETS FOR DDC CONTROLS. FIELD COORDINATE EXACT LOCATION AND ELEVATION WITH MECHANICAL CONTRACTOR. CABLES TERMINATE TO MC-1 ON LEVEL 1. REFER TO SHEET T101 FOR MC-1 LOCATION.
 2. PROVIDE (2) 2" CONDUITS TO FLOOR ABOVE FOR TELCO CABLE ROUTING. REFER TO SHEET T101 FOR CONTINUATION.
 3. PROVIDED BY TELCO SERVICE PROVIDER.
 4. PROVIDE CONDUIT AND SLEEVE FOR FUTURE CABLE WIRING.
 5. ROUTE FIBER OPTIC CABLE FROM TELCO SERVICE PROVIDER FIBER OPTIC PANEL TO IT ROOM ON LEVEL 1. REFER TO DRAWING T101 FOR ADDITIONAL INFORMATION. REFER TO T000 TELECOM ROOM REFERENCES.

1 LEVEL 0 FLOOR PLAN - WEST - TECHNOLOGY
 1/8" = 1'-0"

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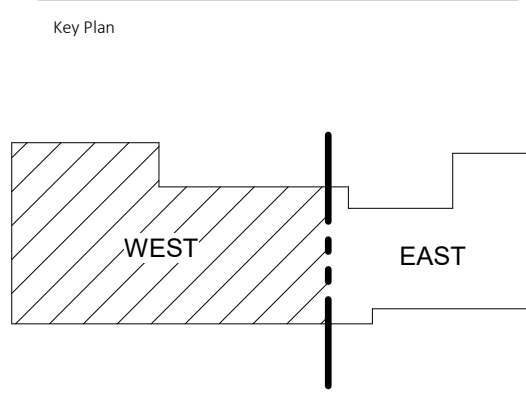
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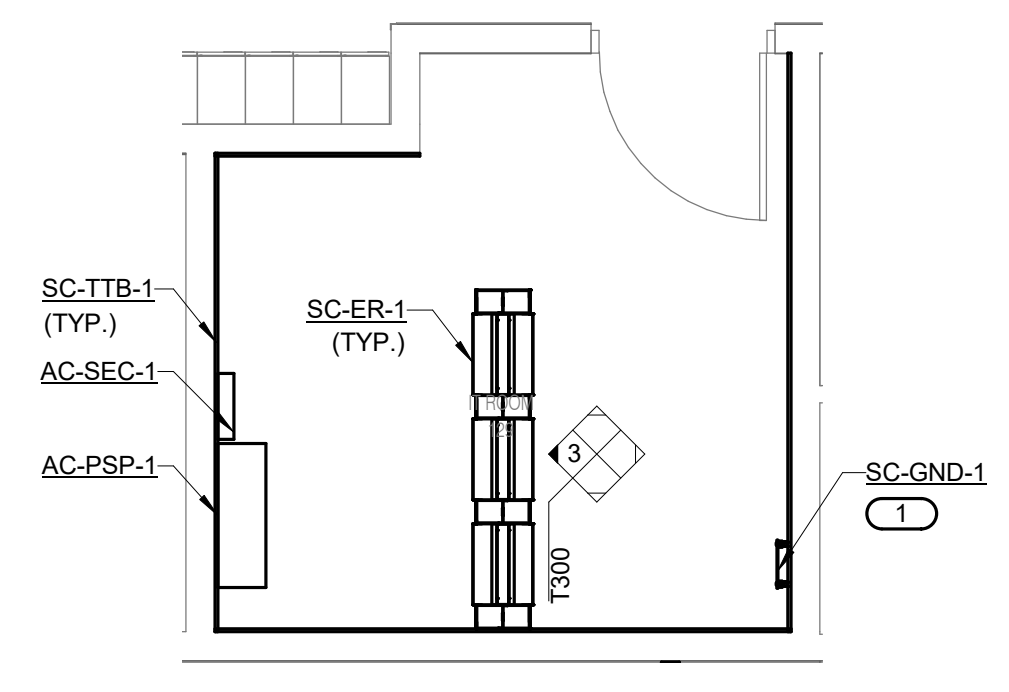
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Sheet Issue Date	BID DOCUMENTS 11/30/2018
Sheet Name	LEVEL 0 FLOOR PLAN - WEST - TECHNOLOGY
Sheet Number	T100



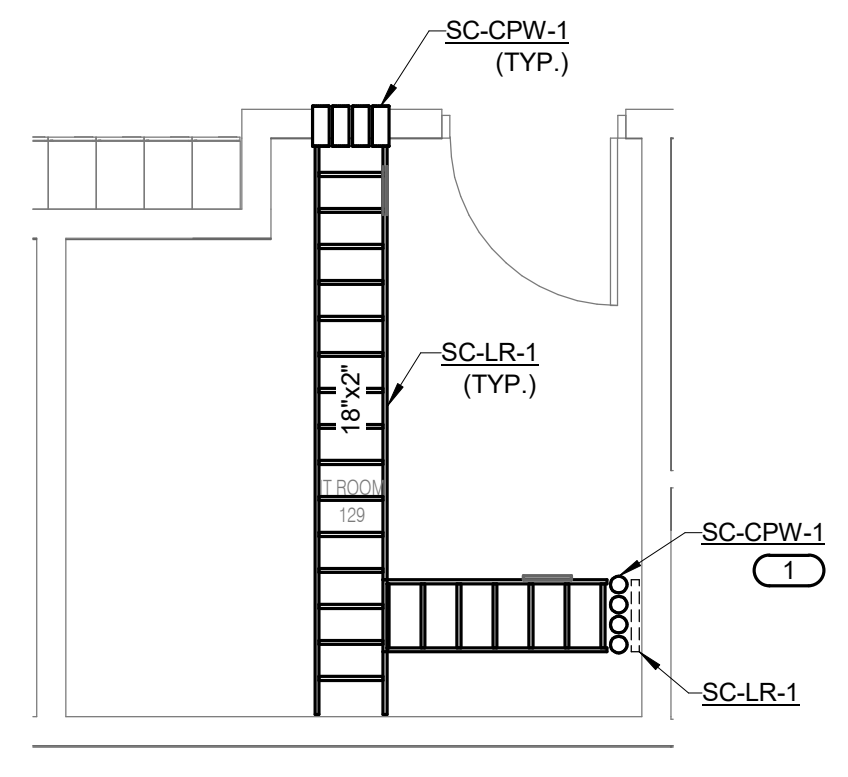
1 TELECOM ROOM 129 MC-1 ENLARGED PLAN
 1/4" = 1'-0"

NOTES:

- COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN TELECOM ROOM 129 MC-1 ON SITE WITH OWNER'S IT STAFF PRIOR TO INSTALLATION.
- COORDINATE INSTALLATION SCHEDULE FOR UTILITY/SERVICE POWER OUTLETS AND ANY EQUIPMENT POWER CONNECTION REQUIRED FOR CONTRACTOR FURNISHED AND INSTALLED EQUIPMENT IN TELECOM ROOM 129 MC-1 WITH ON SITE DIVISION 26 CONTRACTOR PRIOR TO ROUGH-IN.
- REFER TO 21300 FOR TELECOM ROOM 129 MC-1 PATHWAY LAYOUT.
- REFER TO 117501 FOR TECHNOLOGY BONDING RISER DIAGRAM.

KEYNOTES:

- REFER TO 21400 FOR ADDITIONAL INFORMATION. INSTALL AT A HEIGHT OF 18" AFF TO THE TOP OF THE GROUND BAR.



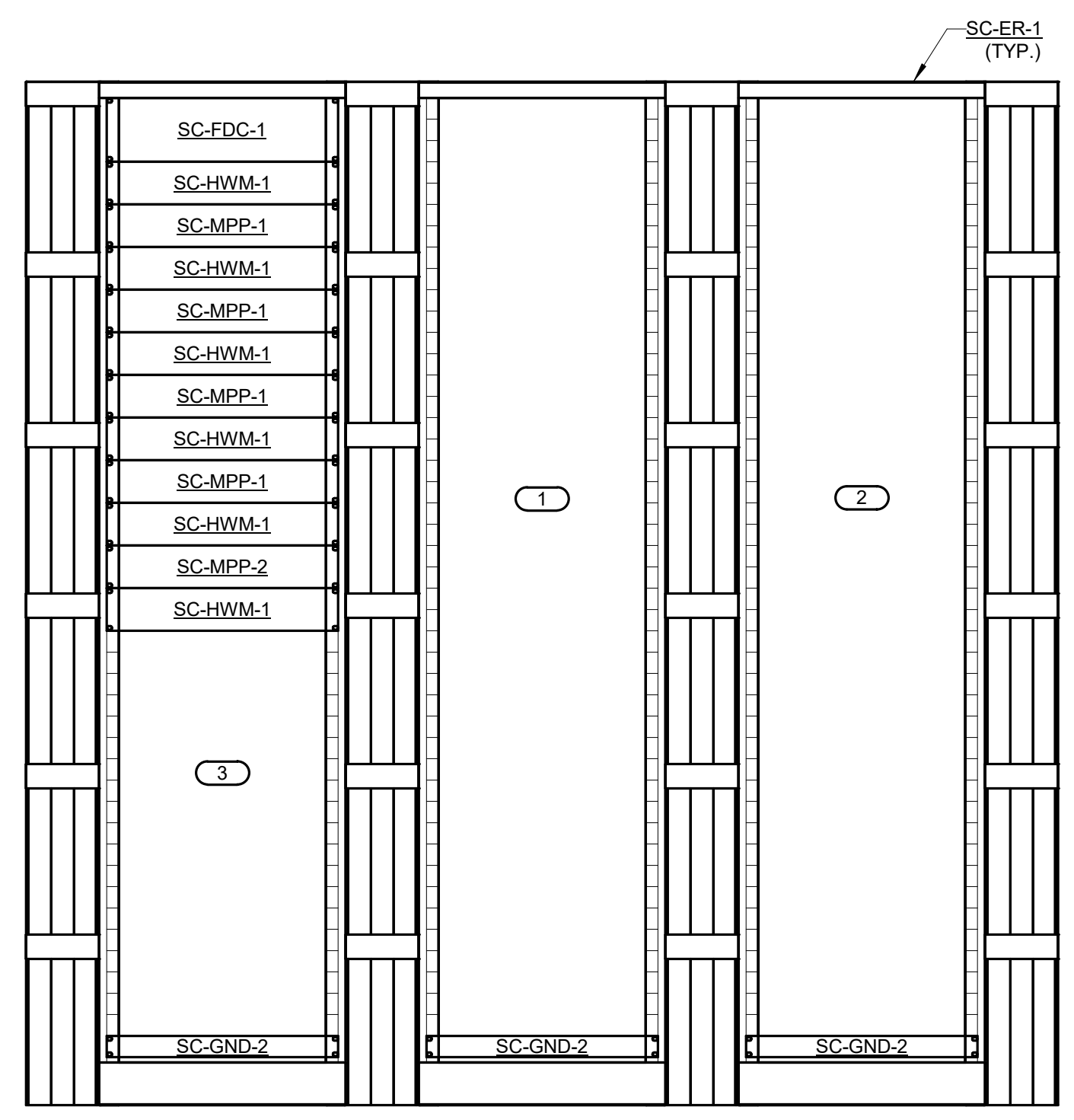
2 TELECOM ROOM 129 MC-1 PATHWAY LAYOUT
 1/4" = 1'-0"

NOTES:

- CONFIRM ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN TELECOM ROOM 129 MC-1 ON SITE WITH OWNER'S IT STAFF PRIOR TO INSTALLATION.
- FURNISH AND INSTALL CABLE RUNWAY RADIUS DROPS AT ALL AREAS WHERE CABLE TRANSITIONS ON TO OR OFF OF HORIZONTAL CABLE RUNWAY. REFER TO 31400 AND 41400 FOR ADDITION INFORMATION.
- PROVIDE VERTICALLY MOUNTED LADDER RACK/CABLE MANAGEMENT TO ORGANIZE AND SUPPORT CABLES ROUTED OVER TO EQUIPMENT RACKS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES:

- SLEEVES PROVIDED IN RAISED FLOOR FOR CABLE DISTRIBUTION.



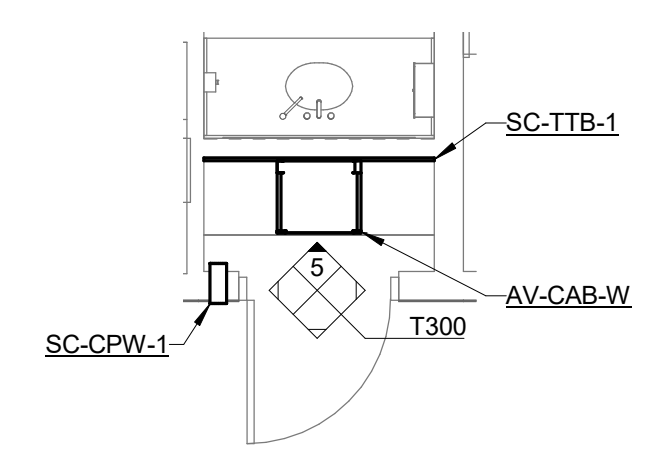
3 TELECOM ROOM 129 MC-1 RACK ELEVATION
 1" = 1'-0"

NOTES:

- COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN TELECOM ROOM 129 MC-1 ON SITE WITH OWNER'S IT STAFF PRIOR TO INSTALLATION.
- FURNISH AND INSTALL CABLE RUNWAY RADIUS DROPS AT ALL AREAS WHERE CABLE TRANSITIONS ON TO OR OFF OF HORIZONTAL CABLE RUNWAY. REFER TO 31400 FOR ADDITION INFORMATION.
- PROVIDE CABLE MANAGEMENT AND COORDINATE AC POWER AND VENTILATION REQUIREMENTS.
- ALLOW AT LEAST 3 RACK UNIT AT TOP OF THE MAIN RACK FOR NEW OPTICAL FIBER CABLE PATCH PANEL THAT WILL BE INSTALLED BY ANOTHER PROJECT. DO NOT INSTALL HORIZONTAL WIRE MANAGER AT THE VERY TOP OF THE RACK.

KEYNOTES:

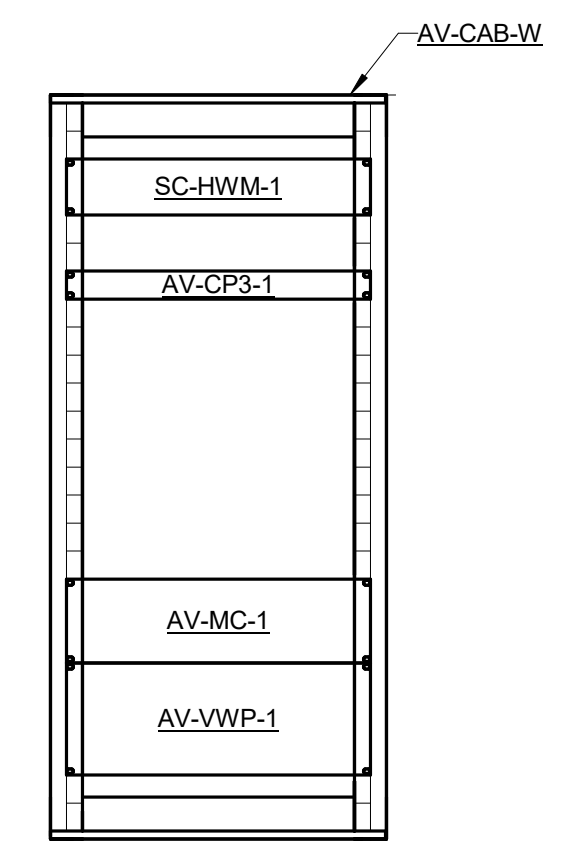
- SPACE FOR OWNER PROVIDED EQUIPMENT (ETHERNET SWITCHES, ETC.).
- SPACE RESERVED FOR ADDITIONAL PATCH PANELS.
- SPACE RESERVED FOR SOUTH-CENTRAL LIBRARY SYSTEM EQUIPMENTS.



4 AV CLOSET 115A - ENLARGED PLAN
 1/4" = 1'-0"

NOTES:

- AV CABINET PROVIDED BY DIVISION 27 CONTRACTOR.
- MAXIMUM HEIGHT AT TOP OF MOUNTED CABINET NOT TO EXCEED 72" AFF.



5 AV CLOSET 115A - RACK ELEVATION
 1" = 1'-0"

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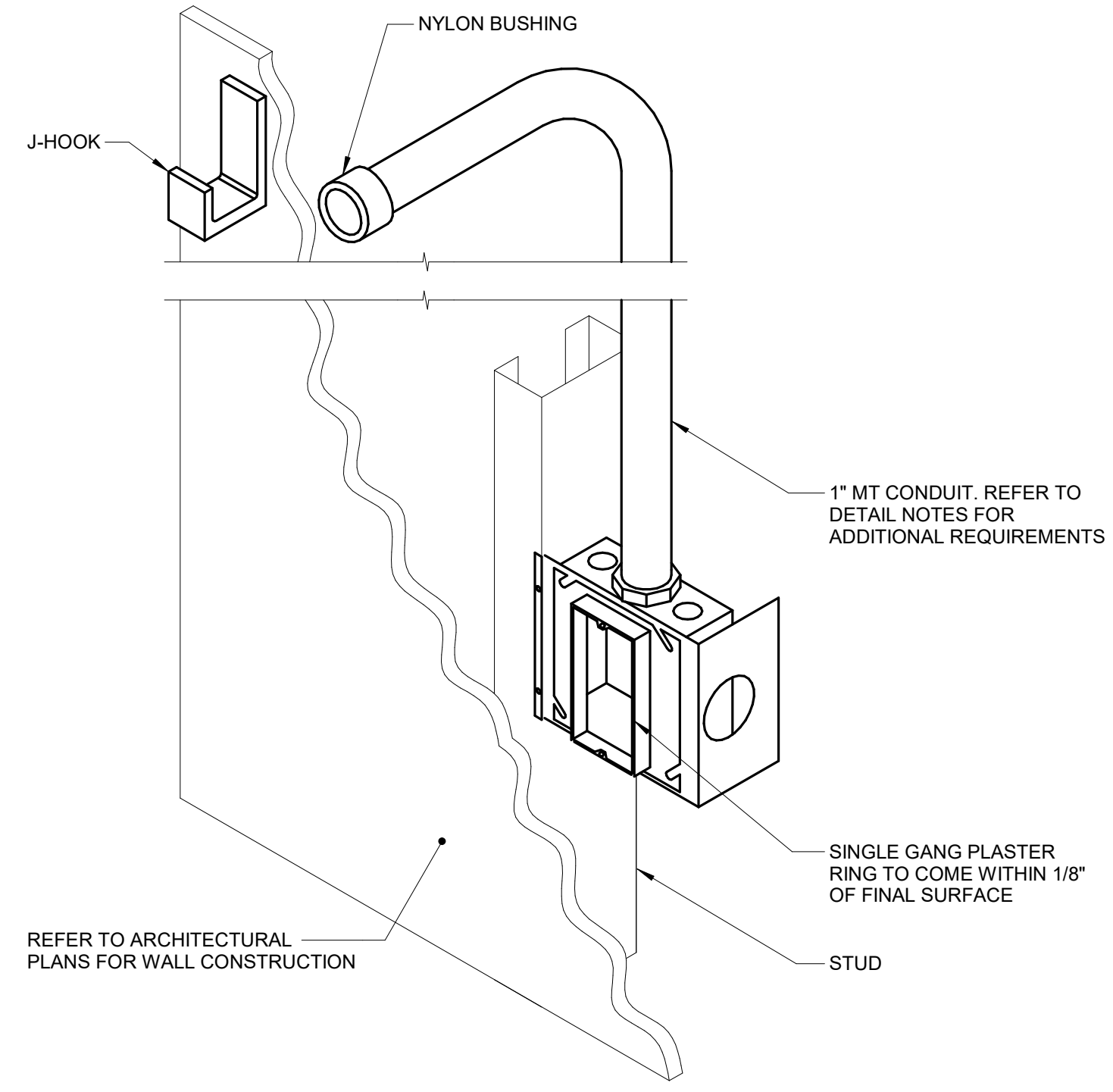
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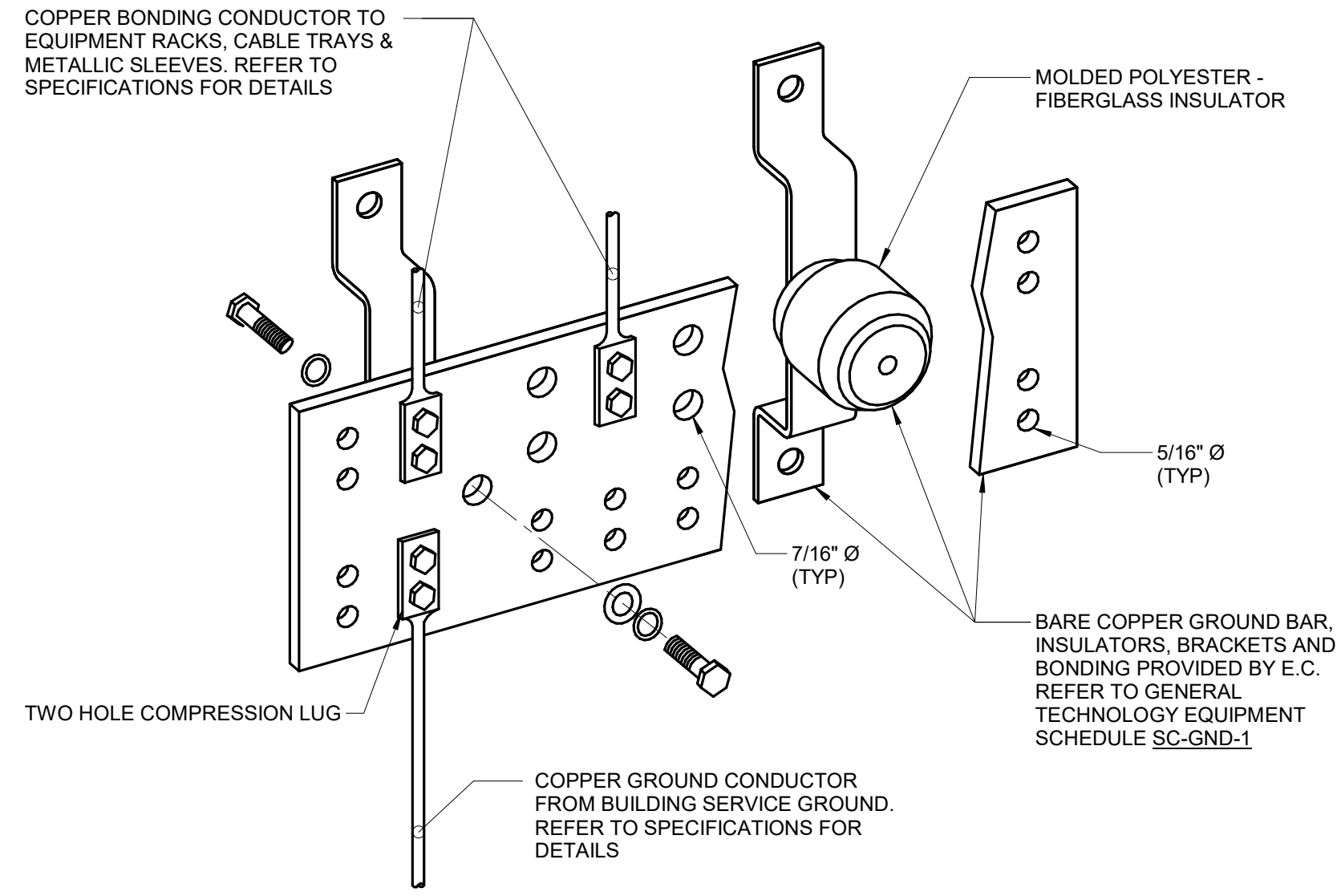
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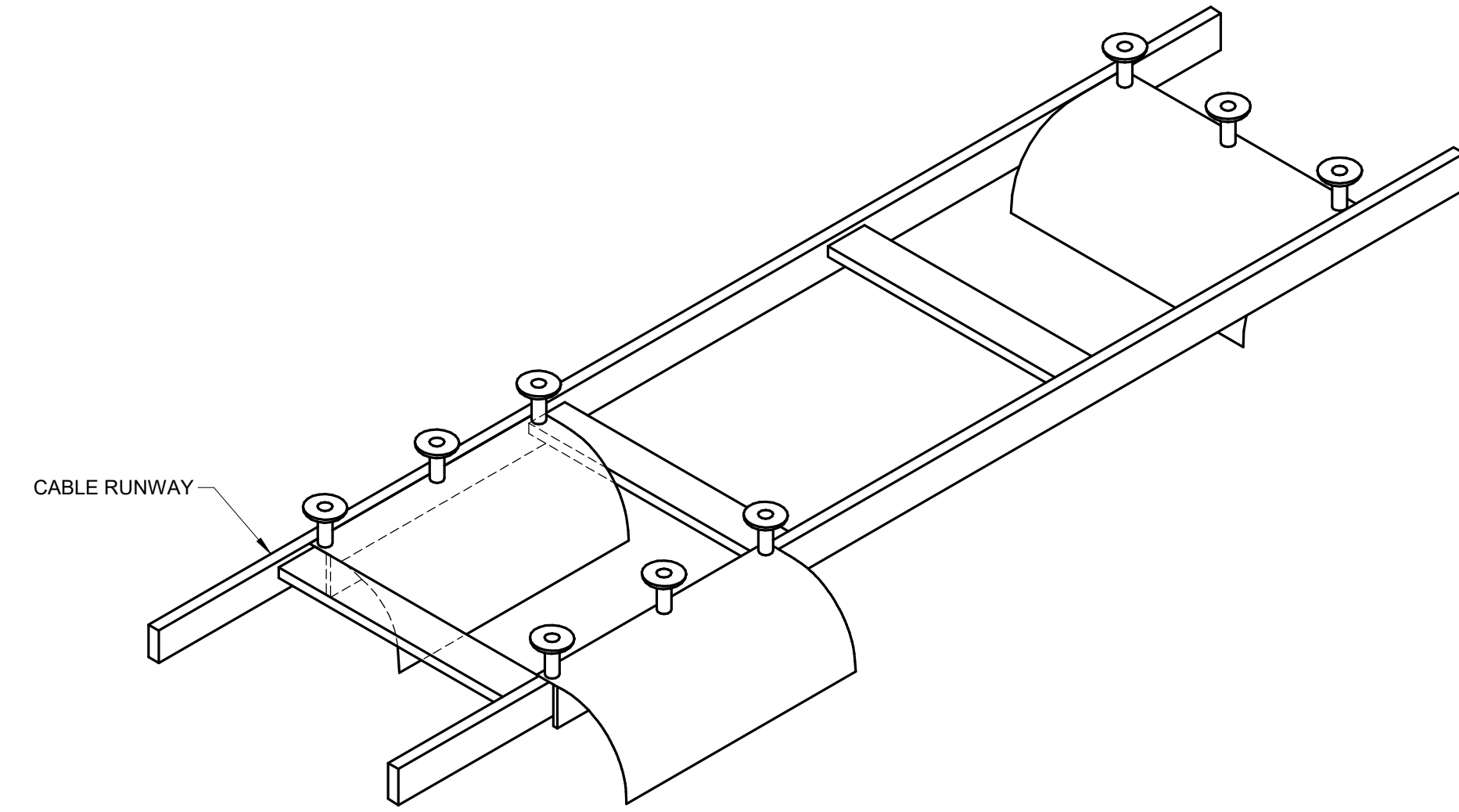
1 TECHNOLOGY ROUGH-IN MOUNTING DETAIL
NO SCALE

- NOTES:**
- 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
 - WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
 - ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
 - INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

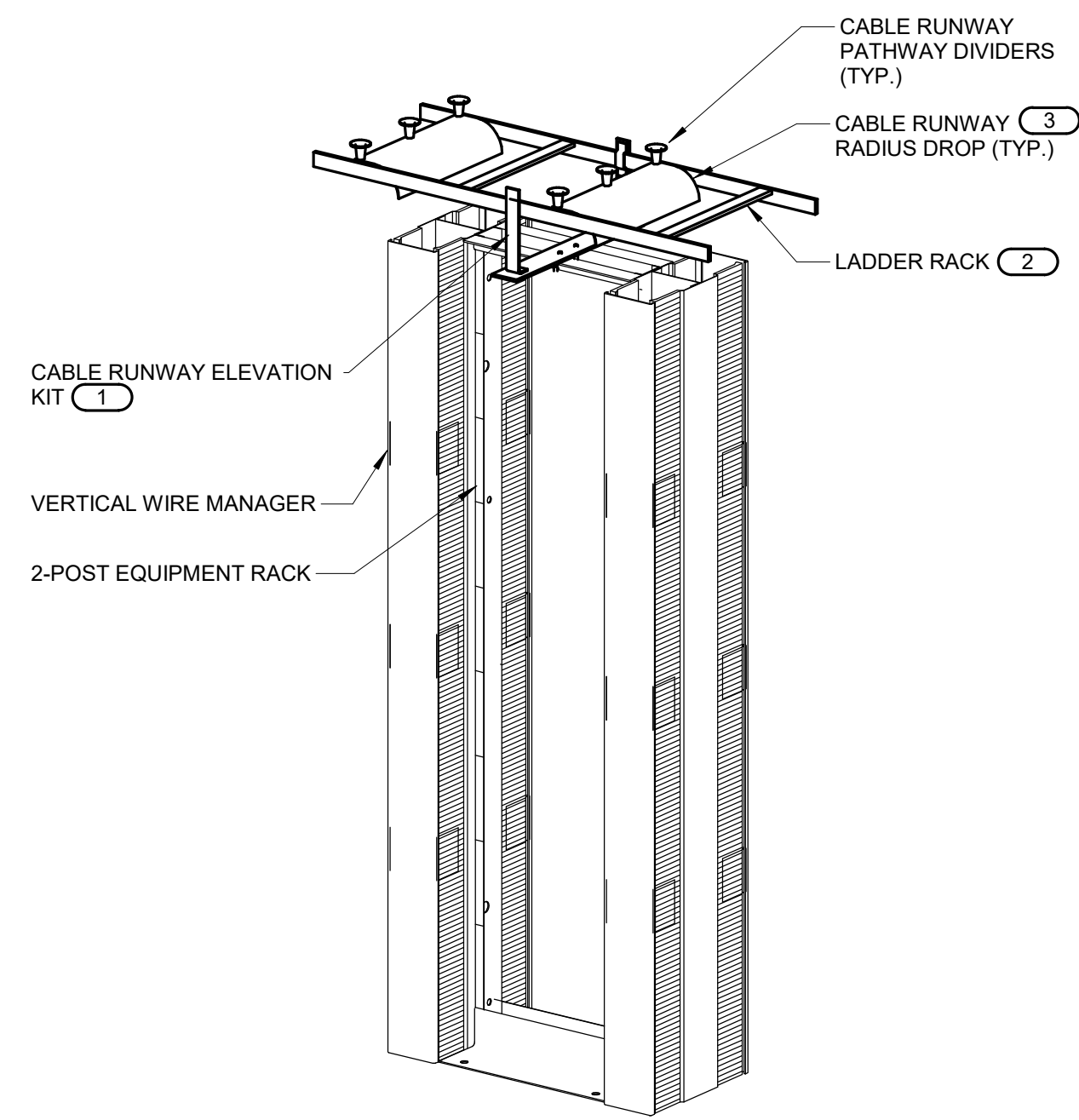


2 BONDING BUS BAR DETAIL
NO SCALE

- NOTES:**
- REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.
 - REFER TO 2/7501 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.



3 CABLE RUNWAY RADIUS DROP
NO SCALE



4 LADDER RACK MOUNTING DETAIL
NO SCALE

- NOTES:**
- ALL LADDER RACK AND ACCESSORIES TO BE INSTALLED FOR A COMPLETE INSTALLATION SHALL BE FROM THE SAME MANUFACTURER.
- KEYNOTES:**
- MOUNT THE LADDER RACK NO MORE THAN 4" ABOVE THE FLOOR MOUNTED RACK. ADJUST THE CABLE RUNWAY ELEVATION KIT AS REQUIRED.
 - REFER TO THE INDIVIDUAL PATHWAY DRAWINGS FOR THE LADDER RACK SIZE.
 - A MINIMUM OF (1) RADIUS DROP INTO EACH VERTICAL WIRE MANAGER. REFER TO THE INDIVIDUAL TELECOM ROOM LAYOUTS, PATHWAY LAYOUTS, AND RACK ELEVATIONS FOR QUANTITY OF WIRE MANAGERS AND ADDITIONAL INFORMATION.

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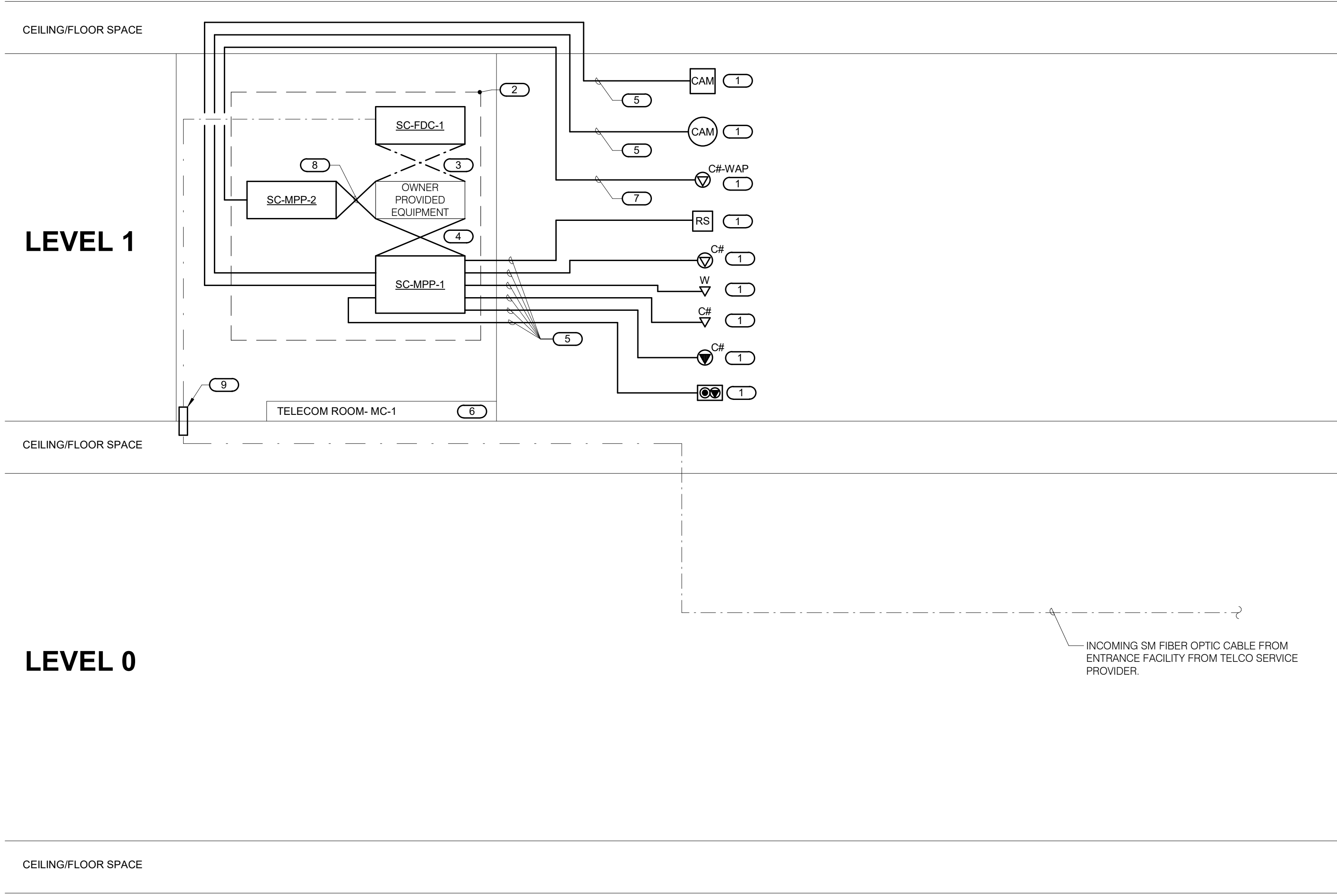
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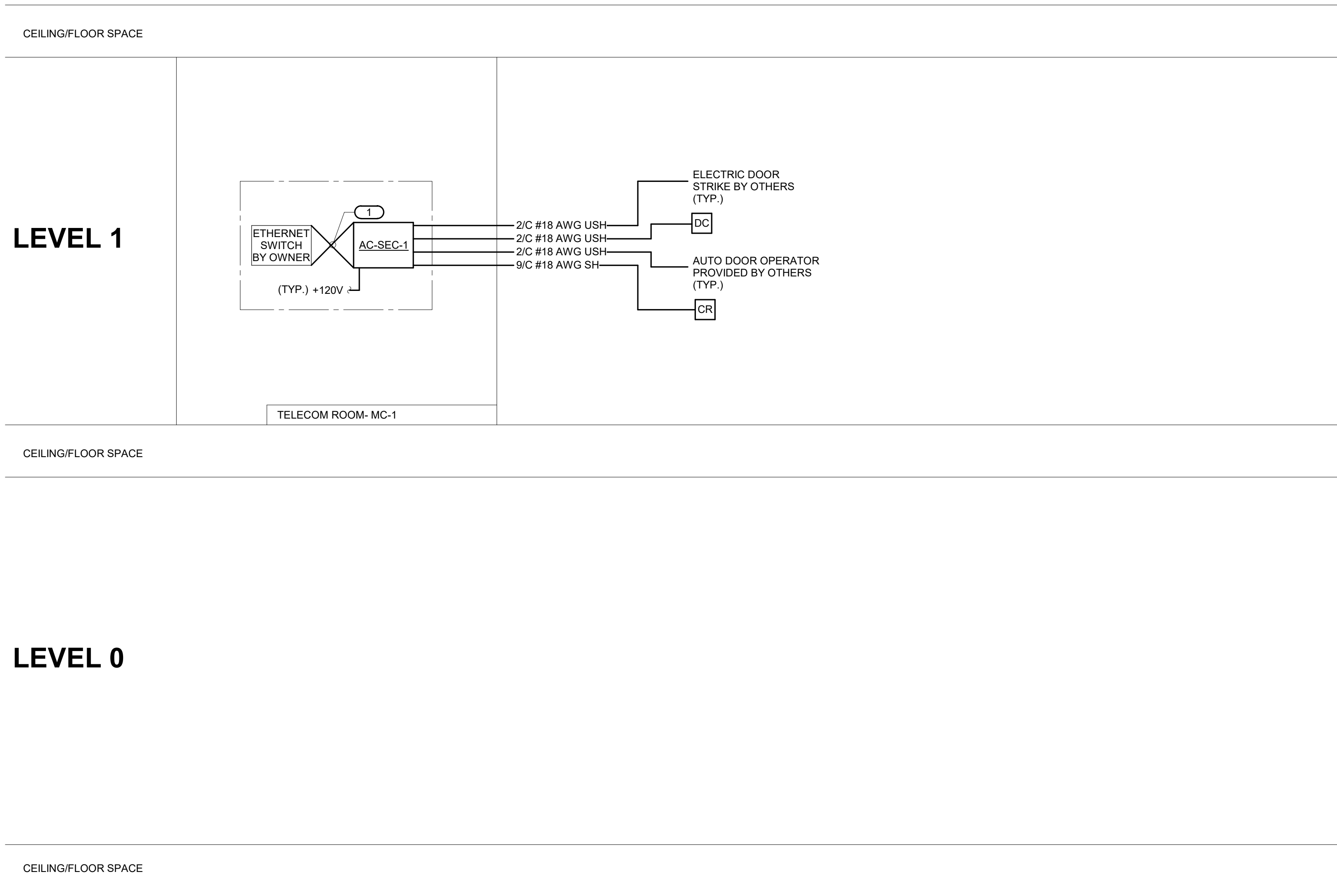
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Revision Date



1 FIBER AND COPPER RISER DIAGRAM
NO SCALE

- NOTES:**
- THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTIONS, LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET. REFER TO SHEET T600 FOR INFORMATION OUTLET SCHEDULE. REFER TO SHEET 3/T600 FOR RACK ELEVATION.
 - REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
 - CABLES ROUTED TO FLOORBOXES LOCATIONS TO USE RAISED FLOOR CAVITY FOR PATHWAYS AS LONG AS THEY ARE SUPPORTED PER SPECIFICATIONS AND FIELD COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
- KEYNOTES:**
- C# INDICATES DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. REFER TO TECHNOLOGY FLOOR PLANS AND GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
 - RACK AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON SHEET T000 FOR LOCATION.
 - REFER TO SPECIFICATIONS FOR FIBER PATCH CORD REQUIREMENTS.
 - RJ-45 TO RJ45 CATEGORY 6 UTP PATCH CORDS. REFER TO SPECIFICATIONS.
 - 23 GAUGE 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE. REFER TO SPECIFICATIONS FOR CABLE REQUIREMENTS. ROUTE THROUGH (1) " CONDUIT TO MC-1. REFER TO SHEET 2/T300 FOR ADDITIONAL INFORMATION.
 - REFER TO SHEET T000 AND FLOOR PLANS FOR TELECOM ROOM LOCATIONS.
 - 23 GAUGE 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE. REFER TO SPECIFICATIONS FOR CABLE REQUIREMENTS.
 - PROVIDE CATEGORY 6A PATCH CORD. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - DIVISION 27 CONTRACTOR RESPONSIBLE TO FIELD COORDINATE EXACT LOCATION OF PENETRATION IN RAISED FLOOR WITH EC FOR INCOMING TELCO SERVICE.
 - COORDINATE SEPARATE PATCH PANEL LOCATION WITH OWNER PRIOR TO INSTALLATION.



2 ACCESS CONTROL RISER DIAGRAM
NO SCALE

- NOTES:**
- THIS DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL DEVICE QUANTITIES OR LOCATIONS. ALL DEVICES SHOWN ARE TYPICAL AND MAY NOT REFLECT EVERY WIRE OR CONNECTION THAT MUST BE MADE. WIRING SHOWN ON THIS DIAGRAM REFLECTS THE REQUIREMENTS FOR THE BASIS OF DESIGN MANUFACTURER. ANY CHANGES REQUIRED DUE TO THE T.C.'S SELECTION OF AN ALTERNATE MANUFACTURER, INCLUDING ANY POWER REQUIRED FOR FIELD LOCATED SECURITY CONTROLLERS, SHALL BE INCLUDED IN THE T.C.'S BID.
 - REFER TO SPECIFICATION SECTION 27 13 00 FOR SYSTEM REQUIREMENTS.
- KEYNOTES:**
- CATEGORY 6 RJ-45 TO RJ-45 PATCH CABLE PROVIDED BY THIS CONTRACTOR.

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Sheet Number
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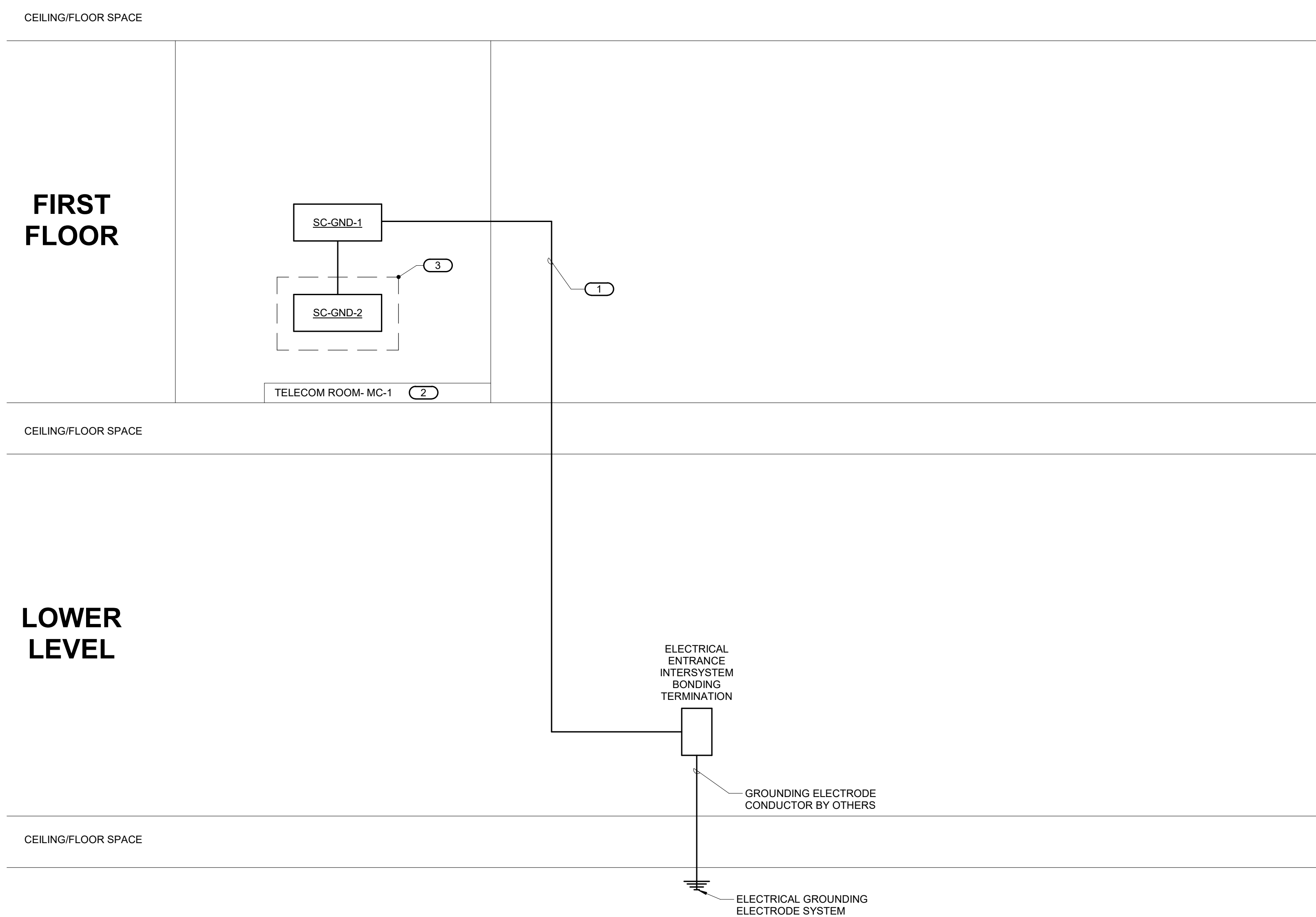
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1 TECHNOLOGY BONDING RISER DIAGRAM
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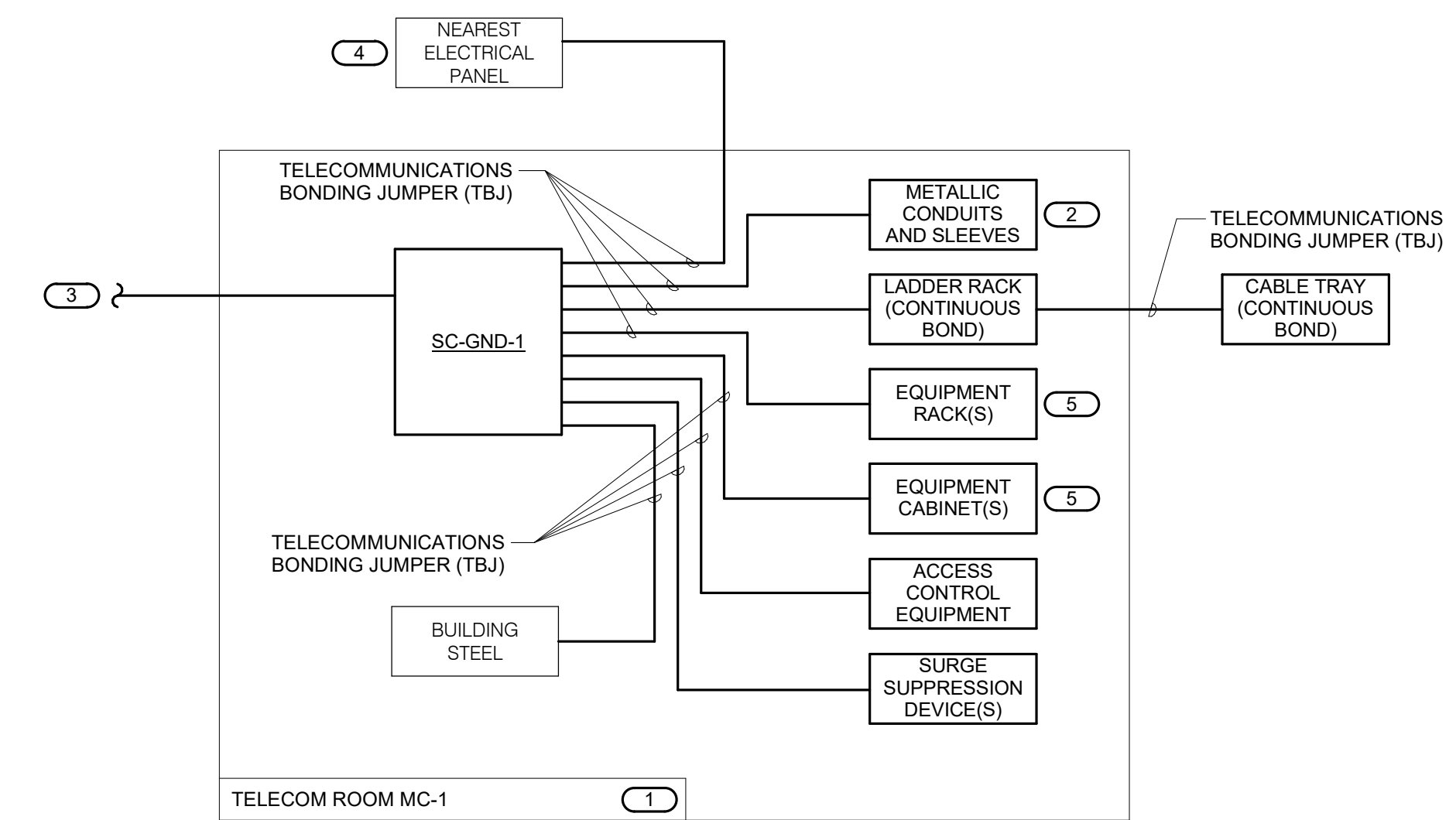
NOTES:

- THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
- REFER TO 2/7501 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.
- REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T000 FOR TELECOM ROOM NUMBER AND LOCATION INFORMATION.

KEYNOTES:

- BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT), BCT SHALL BE THE SAME SIZE AS THE TBB OR LARGER. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS.
- REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOM ROOM LOCATIONS.
- RACK AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.

BONDING CONDUCTOR SIZING SCHEDULE	
CONDUCTOR LENGTH IN FEET	MINIMUM ACCEPTABLE SIZE - AWG
LESS THAN 13'	6
14' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
GREATER THAN 66'	3/0



2 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM
NO SCALE

NOTES:

- THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS FLOW DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
- REFER TO 2/7400 FOR BONDING BUS BAR DETAIL AND ADDITIONAL INFORMATION AND REQUIREMENTS FOR SC-GND-1.

KEYNOTES:

- REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T000 FOR TELECOM ROOM NUMBER AND LOCATION INFORMATION.
- INCLUDES HORIZONTAL AND VERTICAL CONDUIT SLEEVES FOR TECHNOLOGY CABLING.
- BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT), TO ELECTRICAL ENTRANCE INTERSYSTEM BONDING TERMINATION. REFER TO 1/7501 FOR TECHNOLOGY BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS.
- REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION.
- PROVIDE SC-GND-2 RACK MOUNT TELECOMMUNICATIONS BONDING BUSBAR AT EACH EQUIPMENT RACK OR CABINET.

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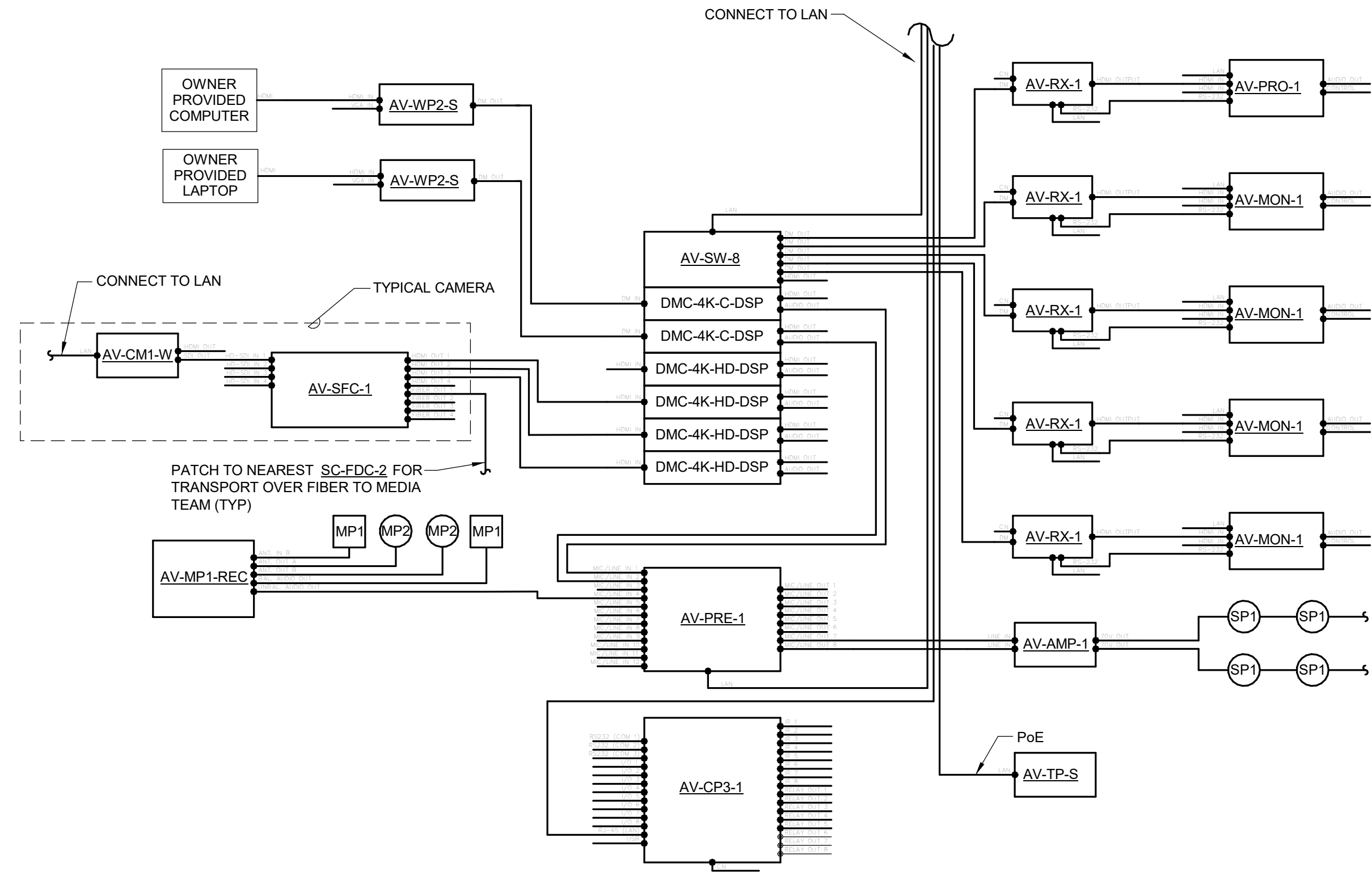
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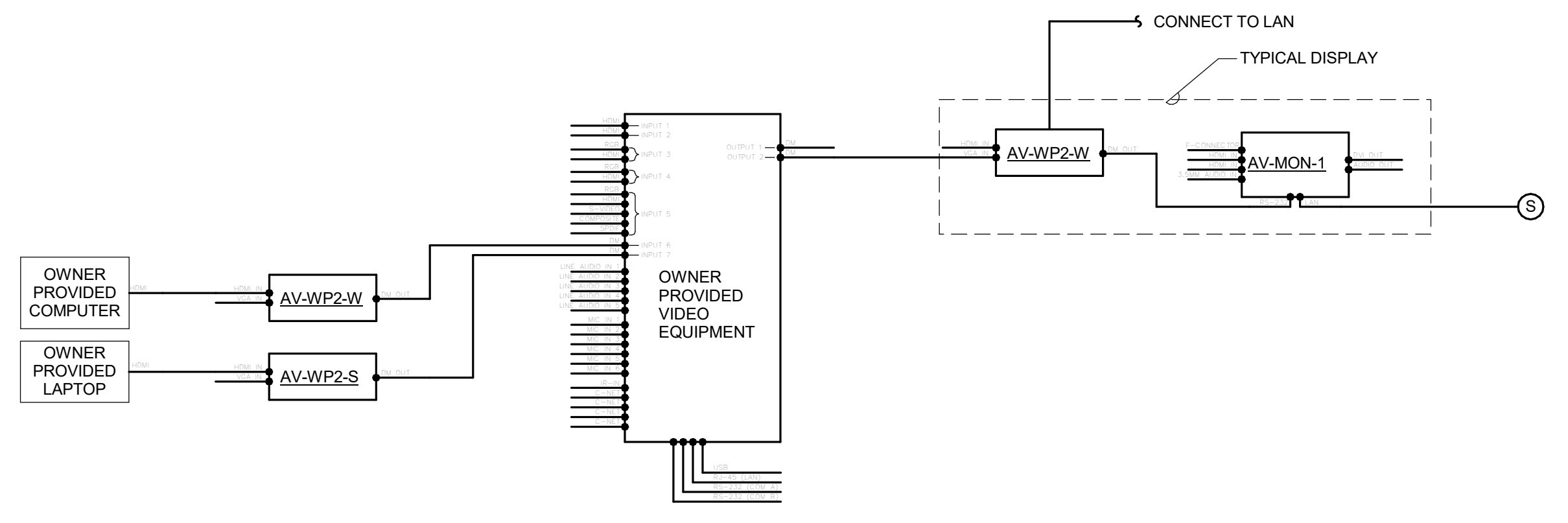
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1 COMMUNITY ROOM AV RISER DIAGRAM
NO SCALE

NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES.
2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T602 FOR ADDITIONAL INFORMATION.



2 TYPICAL AV RISER DIAGRAM
NO SCALE

NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES.
2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T602 FOR ADDITIONAL INFORMATION.

KEYNOTES:
1. SPEAKER OR SOUNDBAR FURNISHED WITH MONITOR.

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INFORMATION OUTLET SCHEDULE

SINGLE GANG WALL PLATES

2-Port Faceplate

4-Port Faceplate

ANSI/TIA/EIA T568B PINPAIR ASSIGNMENT

NOTES:

- PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.
- REFER TO SPECIFICATIONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

SCHEDULE NOTES:

- LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT THE NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER WIRELESS SURVEY. PROVIDE WAP LOCATIONS WITH CATEGORY 6A CABLE AND CATEGORY 6A RJ45 JACKS.
- PROVIDE CONDUIT AND BACKBOX ROUGH-IN FOR ROOM SCHEDULER DEVICE. REFER TO GTS FOR ROOM SCHEDULER DETAILS.

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION				NOTES
		POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	
C1	2	CAT6	BL			
C2	2	CAT6	CAT6			
C2-WAP	2	CAT6A	CAT6A			1.
C3	4	CAT6	CAT6	HDMI	BL	
C4	4	CAT6	CAT6	CAT6	CAT6	
CAM	1	CAT6				
RS	1	CAT6				2.

LEGEND

CAT6	CAT6 RJ-45
CAT6A	CAT6A RJ-45
BL	BLANK FILLER MODULE
HDMI	HDMI COUPLER MODULE



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 Sheet Issue Date **11/30/2018**
 Sheet Name **TECHNOLOGY SCHEDULES**
 Sheet Number **T600**

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GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

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CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

Table with columns: EQUIPMENT TAG, EQUIPMENT LIST DESCRIPTION, EQUIPMENT LIST MANUFACTURER AND MODEL. Includes items like AC-CR-W, AC-PSP-1, AC-SEC-1, AV-AMP-1, AV-ANT-W, AV-AT-1, AV-CAB-W, AV-CM1-W, AV-CP3-1, AV-DC-S, AV-DMP-1, AV-MC-1, AV-MNT-1, AV-MNT-2, AV-MNT-3, AV-MNT-4, AV-MON-1, AV-MON-2, AV-MON-3, AV-MON-4, AV-MP1-REC, AV-MP1-S, AV-MP2-C, AV-PRE-1, AV-PRO-1, AV-PRO-MNT, AV-RS-W, AV-RX-1, AV-RX-2, AV-SFC-1, AV-SP1-C, AV-SP1-W, AV-SW-8, AV-TP1-S.

GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

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Table with columns: EQUIPMENT TAG, EQUIPMENT LIST DESCRIPTION, EQUIPMENT LIST MANUFACTURER AND MODEL. Includes items like AV-TP-W, AV-TV-1, AV-TX-2, AV-VCC-1, AV-VPS-1, AV-WM-1, AV-WP1-W, AV-WP3-W, SC-CPW-1, SC-CT-1, SC-ER-1, SC-FDC-1, SC-GND-1, SC-GND-2, SC-HWM-1, SC-IO-C, SC-IO-CWAP, SC-IO-F, SC-IO-W, SC-LR-1, SC-MPP-1, SC-MPP-2, SC-TTB-1.

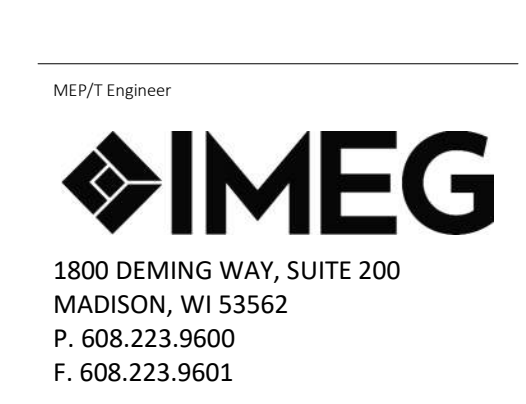


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