



Council Conference Meeting

February 13, 2023

6:00 PM

Fridley City Hall, 7071 University Avenue N.E.

Agenda

1. Assessing Division Update – Guide to Estimated Market Value and Preliminary Market Valuations for Assessment Year (AY) 2023, Payable Year (PY) 2024
2. Review Moore Lake Park Community Building Project

Upon request, accommodation will be provided to allow individuals with disabilities to participate in any City of Fridley services, programs, or activities. Hearing impaired persons who need an interpreter or other persons who require auxiliary aids should contact the City at (763) 572-3450.



AGENDA REPORT

Meeting Date: February 13, 2023

Meeting Type: City Council Conference Meeting

Submitted By: Pat Maghrak, City Assessor
Joe Starks, Director of Finance/City Treasurer

Title

Assessing Division Update – Guide to Estimated Market Value and Preliminary Market Valuations for Assessment Year (AY) 2023, Payable Year (PY) 2024

Background

Staff will give an overview of the process, timeline and methodology for determining estimated market values. An update will be shared regarding very preliminary market valuations for AY23/PY24.

Focus on Fridley Strategic Alignment

☐ Vibrant Neighborhoods & Places	☐ Community Identity & Relationship Building
☒ Financial Stability & Commercial Prosperity	☐ Public Safety & Environmental Stewardship
☐ Organizational Excellence	

Attachments and Other Resources

- 2023 LBAE

Vision Statement

We believe Fridley will be a safe, vibrant, friendly and stable home for families and businesses.

2023 LBAE

Guide to Estimated Market Value

Overview

Timeline Studied to Determine Estimated Market Values

The classification and estimated market value of all real property in the state of Minnesota is established as of January 2nd each year. For the 2023 Assessment, sales between October 1st, 2021, and September 30th, 2022, were analyzed to determine estimated market values as of January 2nd, 2023. The classification and estimated market value are used to determine the taxes payable in 2024.

Estimated Market Value Methodology

Sales occurring during the 12 months studied are first examined to determine if they are "Fair Market Sales" only these sales will be used to make judgements about how values need to be adjusted for the next assessment. Those sales selected are then compared with the estimated market value at the time of the sale by dividing the estimated market value by the net sales price. This creates a ratio of sales price to estimated market value and informs the assessor of the level of assessment in each neighborhood.

At the end of the twelve months, the Department of Revenue informs each taxing jurisdiction of any trends they have determined to be statistically relevant. Once the trends are established, then each sale is adjusted for the changing market conditions that occurred over the period studied. For example, Fridley may be told the residential time trend is 12% so each sale is adjusted 1% for every month after the sale and up to the new assessment date. A sale occurring on June 1st of 2022 will be adjusted 6 months up to the January 2nd assessment date (Net sale price X 1.06) to get the time adjusted value. That value is then divided into the estimated market value to determine what adjustment needs to be made to achieve a targeted level of assessment or ratio, of 94.5%.

In Anoka County, building rates are shared by all jurisdictions and land values are determined on the local level. The combination of the two are moved to get to the 94.5% targeted ratio. A great deal of effort is put in to assure that all jurisdictions are targeting the same level of assessment as many share the same school districts and uneven ratios can cause a disparity in taxation among the same participants in the school district. This is the E in LBAE which stands for Local Board of Appeal and Equalization.

The Appeal Process

Anoka county will mail each property owner a "Notice of Valuation and Classification" sometime in mid-March informing them of the classification and estimated market value the assessor has established and will also include a property tax statement for the taxes payable in 2023. Property owners are instructed to call the assessor if they have any questions or concerns about how their property was classified or valued.

Most often, it is the valuation that is in question. When this happens, the assessor will meet with the property owner to verify all underlying attributes of the home and to review any data they provide suggesting a different valuation would be appropriate. Almost all disputes are settled in this manner but sometimes a property owner is not convinced and wants to take their appeal to the Local Board of Appeal and Equalization. At this level the owner is advised to prepare a presentation showing comparable sales that support the value they believe is correct. The assessor will do the same and after review and questions, the Board will be asked to vote on making a change or affirming the estimate.

If the value is affirmed, the owner still has the right to appeal before the County Board of Appeal and Equalization. An appeal before the county board can only be done after having appealed at the local level. The process of appeal at the county is much the same as at the local level. If the owner appeals to the County and is still unconvinced that the valuation is fair, then the last level of appeal is to file a tax court petition and try to settle the matter judicially.

What Board Members Need to Know

The purpose of the meeting is to discuss classification and valuation issues only. The meeting is not a forum to discuss taxes. Often a resident or business owner will appear at the meeting without having called first so staff will not have anything prepared to inform the Board about. When this happens, the Board may decide to re-convene and allow the property owner and staff the time to try and settle the matter or prepare a presentation for a reconvened meeting.

When a property owner appears before the Board they will typically state why they think their valuation or classification is incorrect and provide some form of data to support their position. Staff will have a set of comparable sales and will explain how and why adjustments were made to indicate a certain value range. Once you have reviewed each party's presentation and had an opportunity to ask questions, a motion would be made to make a change or not and a vote would be taken. The Board may also choose to take no action and allow the property owner to move along to the county board. This is often the case with commercial and industrial properties.

If you have questions from your constituents don't hesitate to direct them to staff.

Residential Properties – Brian Northenscold, AMA

763-572-3537

Commercial or Industrial Properties – Patrick D. Maghrak, SAMA

763-572-3536



AGENDA REPORT

Meeting Date: February 13, 2023

Meeting Type: City Council Conference Meeting

Submitted By: Mike Maher, Director of Parks and Recreation
James Kosluchar, Public Works Director

Title

Review Moore Lake Park Community Building Project

Background

Staff will be requesting authorization for the advertisement for bids for the Moore Lake Park building. As with prior progress designs, staff will be sharing with the Council the proposed final design of the building for their comments and suggestions and highlighting elements that have been discussed previously or modified substantially. We are planning to present the park site at the February 27 Council Conference Meeting.

The City of Fridley's Moore Lake Park is in a highly visible location off Central Avenue and Highway 65 and is scheduled for reconstruction in 2023. Council approved the Parks System Improvement Plan in April 2022 which included a transformative reconfiguration of the park.

The park site plans will include renovation of the park and the addition of a new, year-round use park building. Attached is a floor plan and exterior renderings. Note the design of the building has been updated to address Council comments that were provided during two workshop sessions. As shown, the south side of the building will be an enclosed, rentable space with a gathering area, serving kitchen, restrooms and a mechanical room. The north side of the building is a terraced, covered outdoor gathering area.

Oertel Architects designed the building, WSB & Associates has prepared site plans and Kraus-Anderson is providing construction management services for the project. The City anticipates advertising for bids for the building in mid-February with awards in March 2023. The park improvements are anticipated to be advertised at the end of February with awards in April 2023. Project construction would begin Spring 2023.

We welcome the City Council's comments and suggestions.

Financial Impact

Funding is provided by bond proceeds through the Capital Investment Program.

Vision Statement

We believe Fridley will be a safe, vibrant, friendly and stable home for families and businesses.

Recommendation

Review and provide feedback on the building plans and elements presented.

Focus on Fridley Strategic Alignment

☒ Vibrant Neighborhoods & Places	☒ Community Identity & Relationship Building
☐ Financial Stability & Commercial Prosperity	☒ Public Safety & Environmental Stewardship
☒ Organizational Excellence	

Attachments and Other Resources

- Plans and Renderings of the Moore Lake Building Project

Vision Statement

We believe Fridley will be a safe, vibrant, friendly and stable home for families and businesses.



Moore Lake Park Facility

Parking Lot Elevation





Moore Lake Park Facility
Entry Perspective





Moore Lake Park Facility

Parking Perspective





Moore Lake Park Facility

Lakeside Elevation





Moore Lake Park Facility

Indoor Gathering





Moore Lake Park Facility

Indoor Gathering





Moore Lake Park Facility

Indoor Gathering





Moore Lake Park Facility

Night View



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:

Moore Lake Park Community Building

5872 NE CENTRAL AVE., FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:

ANDREW N. COOPER

4648502/03/2023

LICENSE #DATE

SHEET NAME:

TITLE

REVISIONS:		
No.	Date	Description

22-2502/03/2023

PROJECT NUMBERDATE

MMPANC

DRAWN BYCHECKED BY

SHEET NO:

T1

CITY OF FRIDLEY

MOORE LAKE PARK BUILDING

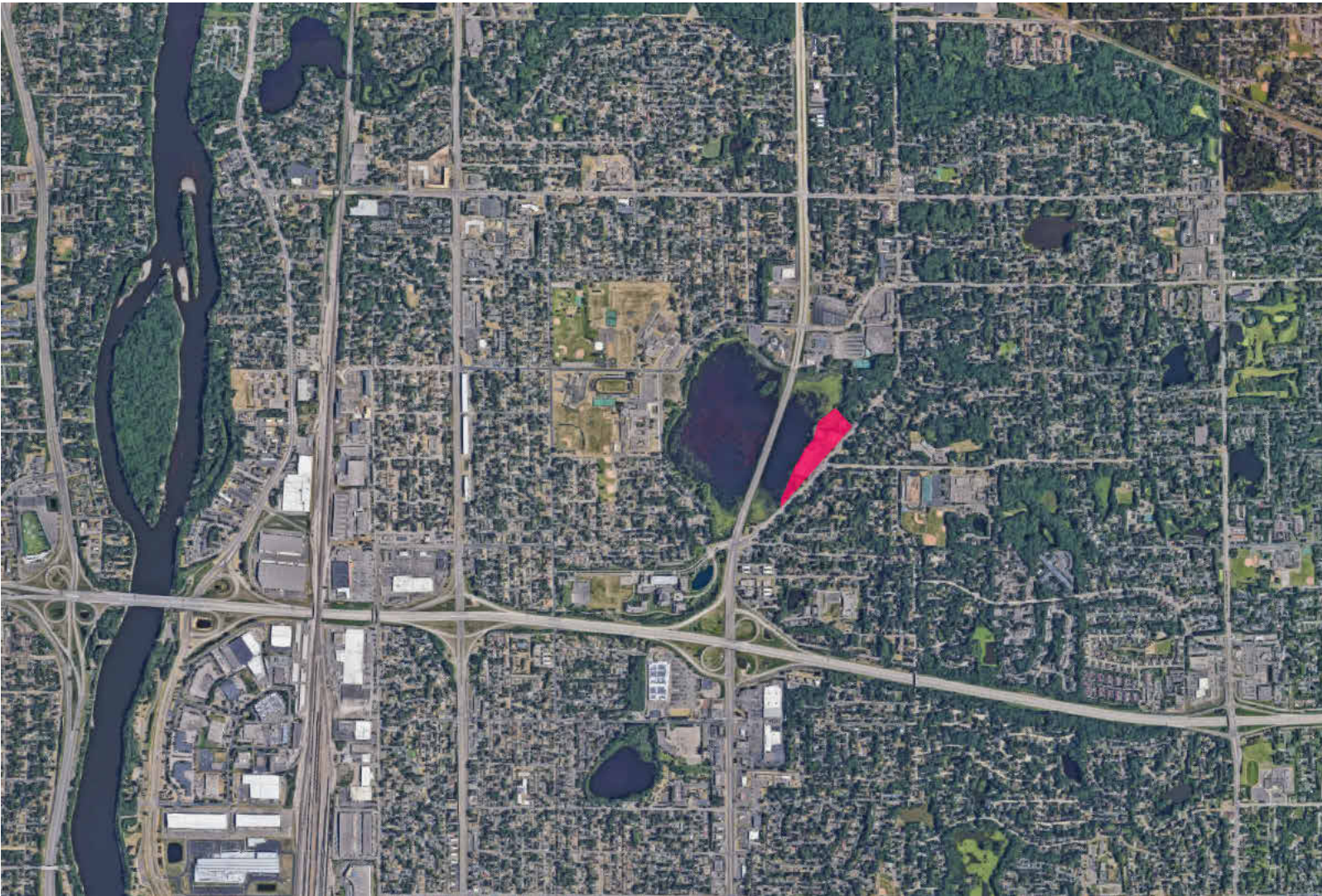
5872 NE CENTRAL AVE, FRIDLEY MN
ARCH. PROJECT NO. 22-25



EXTERIOR RENDERING



SITE AERIAL - N.T.S.



SITE AERIAL - N.T.S.

ARCHITECT:
OERTEL ARCHITECTS
1795 ST. CLAIR AVE.
ST. PAUL, MN 55105
(651) 696-5186
CONTACT: ANDREW COOPER

CIVIL:
WSB
701 XENIA AVENUE S
SUITE 300
MINNEAPOLIS, MN 55416
(763) 541-4800
CONTACT: CANDACE AMBERG

STRUCTURAL:
MEYER BORGMAN JOHNSON
510 MARQUETTE AVENUE SOUTH
SUITE 900
MINNEAPOLIS, MN 55402
(612) 336-0713
CONTACT: MURPHY CURRAN

MECHANICAL:
EDI-DOLEJS
1112 NORTH 5TH STREET
MINNEAPOLIS, MN 55411
(612) 343-5965
CONTACT: STEVE SCHREURS

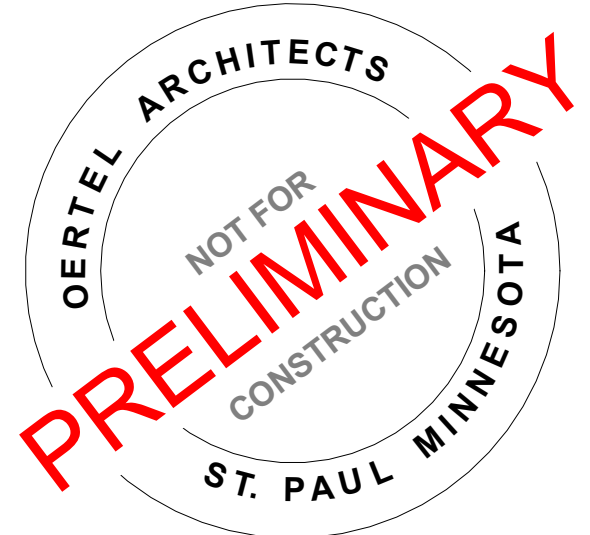
ELECTRICAL:
EDI-DOLEJS
1112 NORTH 5TH STREET
MINNEAPOLIS, MN 55411
(612) 343-5965
CONTACT: JAY HRUBY

SHEET INDEX	
SHEET NUMBER	SHEET NAME
GENERAL	
T1	TITLE
G001	GENERAL INFO
G002	CODE PLAN
ARCHITECTURAL	
A101	MAIN FLOOR PLAN
A103	ROOF PLAN
A151	ENLARGED FLOOR PLAN
A152	ENLARGED INDOOR GATHERING PLAN
A153	ENLARGED RESTROOM PLAN
A154	ENLARGED PLAN - OUTDOOR GATHERING
A201	REFLECTED CEILING PLAN
A301	BUILDING ELEVATIONS
A401	BUILDING SECTIONS
A402	BUILDING SECTIONS - OUTDOOR GATHERING
A501	WALL SECTIONS
A502	WALL SECTIONS
A603	SECTION DETAILS
A701	INTERIOR ELEVATIONS
A801	WINDOW SCHEDULE
A803	DOOR SCHEDULE
A802	FINISH SCHEDULES
STRUCTURAL	
S001	LEGEND SHEET
S002	GENERAL STRUCTURAL NOTES
S201	FOUNDATION PLAN
S202	ROOF FRAMING PLAN
S401	TYPICAL CONCRETE SCHEDULES AND DETAILS
S402	TYPICAL CMU SCHEDULES AND DETAILS
S403	TYPICAL STEEL SCHEDULES AND DETAILS
S501	FOUNDATION AND SLAB ON GRADE DETAILS
S701	FRAMING DETAILS
S0.0	STRUCTURAL SHEETS
MECHANICAL	
M0.01	MECHANICAL TITLE SHEET
M1.1	MAIN FLOOR PLAN - FIRE PROTECTION
M2.0	UNDERFLOOR PLAN - PLUMBING
M2.1	MAIN FLOOR PLAN - PLUMBING
M2.2	PLUMBING RISER DIAGRAMS - WASTE AND VENT
M2.3	PLUMBING RISER DIAGRAMS - DOMESTIC WATER
M3.1	MAIN FLOOR PLAN - PIPING
M4.1	MAIN FLOOR PLAN - HVAC
M5.1	ROOF PLAN - MECHANICAL
M6.1	MECHANICAL SCHEDULES
M7.1	MECHANICAL DETAILS
M7.2	MECHANICAL DETAILS
M0.0	MECHANICAL SHEETS
ELECTRICAL	
E0.1	ELECTRICAL TITLE SHEET
E2.1	MAIN FLOOR PLAN - LIGHTING
E3.1	MAIN FLOOR PLAN - POWER
E4.1	RISER DIAGRAM - POWER
E5.1	SCHEDULES - ELECTRICAL
E6.1	DETAILS - ELECTRICAL
E0.0	ELECTRICAL SHEETS

GENERAL NOTES

- THE DRAWINGS AND THE SPECIFICATIONS TOGETHER REPRESENT THE CONSTRUCTION DOCUMENTS AND, AS SUCH, MUST BE USED TOGETHER AS THE BASICS OF DESIGN. THE CONTRACTOR IS SPECIFICALLY INSTRUCTED NOT TO LIMIT THEIR UNDERSTANDING OF THE SCOPE OF THIS PROJECT BASED UPON THE SPECIFICATION OR DRAWING INDEX.
- THE CONTRACTOR IS RESPONSIBLE TO REVIEW ALL INFORMATION IN BOTH THE DRAWINGS AND THE SPECIFICATION AND IS REQUIRED TO PROVIDE ALL DEFINED, AND REASONABLY IMPLIED, SCOPE OF WORK NO MATTER WHERE IT APPEARS IN THE CONSTRUCTION DOCUMENTS AS WELL AS ANY FORMALLY PROVIDED MODIFICATIONS, CLARIFICATIONS, ADDENDUMS AND/OR OTHER INFORMATION PERTAINING TO THE UNDERSTANDING OF THE SCOPE OF WORK.
- REFER TO ALL DRAWINGS INCLUDING ARCHITECTURAL, SITE, STRUCTURAL, FIRE PROTECTION, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
- ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE INSTALLATION OF THEIR WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN AWWARD OR IMPROPER INSTALLATION, NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK.
- DO NOT SCALE DRAWING. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. - USE GIVEN DIMENSIONS. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT FOR CLARIFICATION BEFORE COMMENCING WORK.
- ALL EXTERIOR DIMENSIONS ARE GIVEN FROM THE EXTERIOR FACE OF MASONRY WALLS. INTERIOR DIMENSIONS ARE GIVEN TO THE FINISH FACE OF WALL. ALL WALL AND PARTITION THICKNESS ARE NORMAL. SEE WALL SECTIONS AND PARTITION TYPES FOR EXACT CONSTRUCTION.
- ALL FIRE PROTECTION, MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SLEEVED AND FIRESAFED AND/OR HAVE FIRE DAMPERS EQUIVALENT TO THE HOURLY FIRE RATING OF THE CONSTRUCTION. FIRE RATINGS WILL BE IDENTIFIED WITHIN THESE DOCUMENTS.
- DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- CONTRACTORS SHALL PROVIDE STIFFENERS, BRACINGS, BACKING PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, AND MISCELLANEOUS EQUIPMENT WHETHER SUCH SUPPORTS ARE SHOWN OR NOT.
- INSTALL ALL RECESSED CABINETS, PANELS, BOXES LOCATED IN FIRE RATED PARTITIONS TO MAINTAIN THE FIRE RATED CONSTRUCTION.
- GC SHALL COORDINATE ALL FIRE PROTECTION, MECHANICAL, PLUMBING AND ELECTRICAL. FLOOR, ROOF AND WALL SLEEVES AND SHAFTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS.

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: **ANDREW N. COOPER**
46485 02/03/2023
LICENSE # DATE
SHEET NAME:

GENERAL INFO

REVISIONS:		
No.	Date	Description

22-25 02/03/2023
PROJECT NUMBER DATE
MMP ANC
DRAWN BY CHECKED BY
SHEET NO:

G001

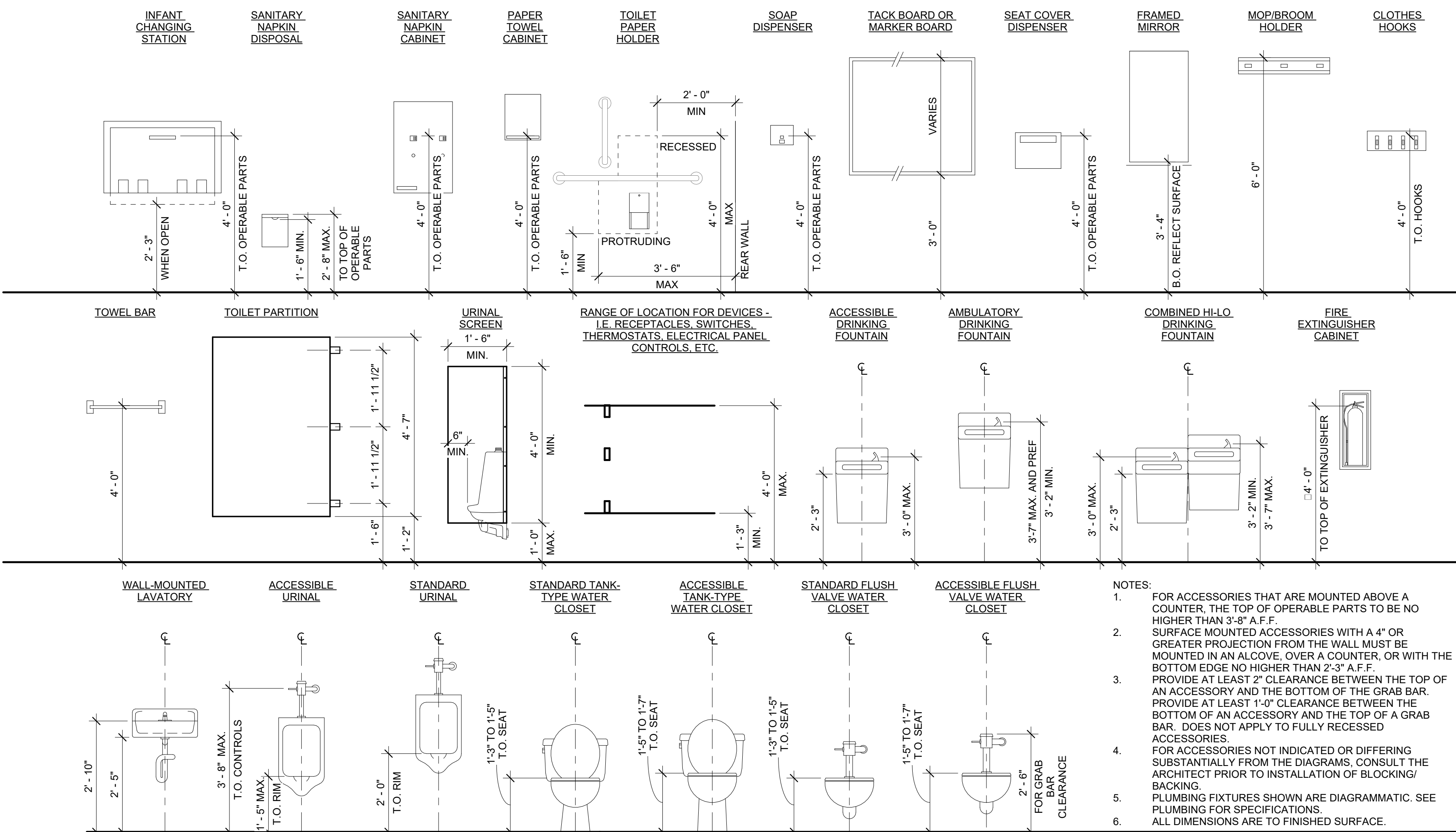
ABBREVIATIONS

ABV	ABOVE	MIN	MINIMUM	~	APPROXIMATE(LY)
ACT	ACROUSTIC CEILING TILE	MIR	MIRROR	@	AT
ADJ	ADJACENT	NA	NOT APPLICABLE	AND	AND
AFF	ABOVE FINISH FLOOR	NIC	NOT IN CONTRACT	¢	CENTERLINE
APPROX	APPROXIMATE(LY)	NOM	NOMINAL	Ø	DIAMETER
ARCH	ARCHITECT(URAL)	OA	OVERALL	#	NUMBER
BD	BOARD	OC	ON CENTER	/	PER
BO	BOTTOM OF	OD	OUTSIDE DIAMETER	±	PLUS OR MINUS
BOT	BOTTOM	OH	OVERHEAD		
BOP	CAST IN PLACE	OPP	OPPOSITE		
CMU	CONCRETE MASONRY UNIT	PREFIN	PREFINISHED		
COL	COLUMN	PLAM	PLASTIC LAMINATE		
CONC	CONCRETE	PLYWD	PLYWOOD		
CONST	CONSTRUCTION	PREFAB	PREFABRICATED		
CONT	CONTINUOUS	QTY	QUANTITY		
CPT	CARPET	RB	RUBBER BASE		
DEMO	DEMOLISH	RCP	REFLECTED CEILING PLAN		
DF	DRINKING FOUNTAIN	REF	REFER		
DIV	DIVIDE/DIVISION	REQ	REQUIRED		
DWG	DRAWING	REV	REVISION/REVIEW		
EA	EACH	RM	ROOM		
EIFS	EXTERIOR INSULATED FINISH SYSTEM	RO	ROUGH OPENING		
ELEC	ELECTRIC/ELECTRICAL	SCHED	SCHEDULE		
ENG	ENGINEER	SF	SQUARE FEET		
EOP	EQUIPMENT	SHT	SHEET		
FDC	FIRE DEPARTMENT CONNECTION	SHTG	SHEATHING		
FF	FINISH FLOOR	SIM	SIMILAR		
FPE	FINISH FLOOR ELEVATION	SPEC	SPECIFICATION		
FIN	FINISH/FINISHED	SQ	SQUARE		
FO	FACE OF	STD	STANDARD		
FRP	FIBER REINFORCED PANEL	STRUCT	STRUCTURE/STRUCTURAL		
GA	GAUGE	T&G	TONGUE AND GROOVE		
GYP	GYPNUM	TEMP	TEMPORARY		
GYP BD	GYP BOARD	T.O.	TOP OF		
HDW	HARDWARE	TYP	TYPICAL		
HDWD	HARDWOOD	UNO	UNLESS OTHERWISE NOTED		
ID	INSIDE DIAMETER/DIMENSION	VB	VINYL BASE		
INSUL	INSULATION/INSULATED	VCT	VINYL COMPOSITE TILE		
INT	INTERIOR	W/O	WITHOUT		
LAV	LAVATORY	WC	WATER CLOSET		
MAX	MAXIMUM	WD	WOOD		
MDF	MEDIUM DENSITY FIBERBOARD	WOW	WINDOW		
MECH	MECHANICAL				

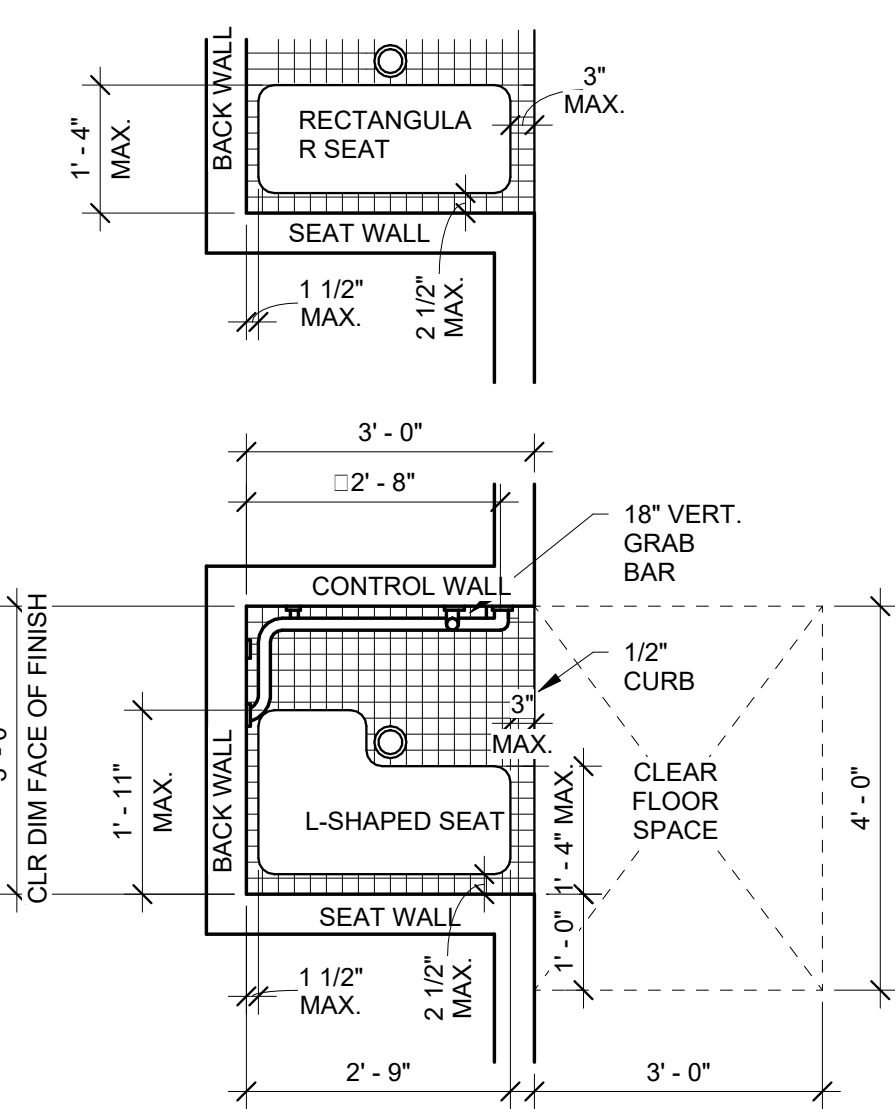
DRAWING SYMBOL SCHEDULE

	SECTION CUT SYMBOL		GRID LINE SYMBOL
	ELEVATION SYMBOL		WALL TYPE
	EXTERIOR ELEVATION SYMBOL		WINDOW TYPE
	INTERIOR ELEVATION SYMBOL		KEYNOTE
			REVISION SYMBOL

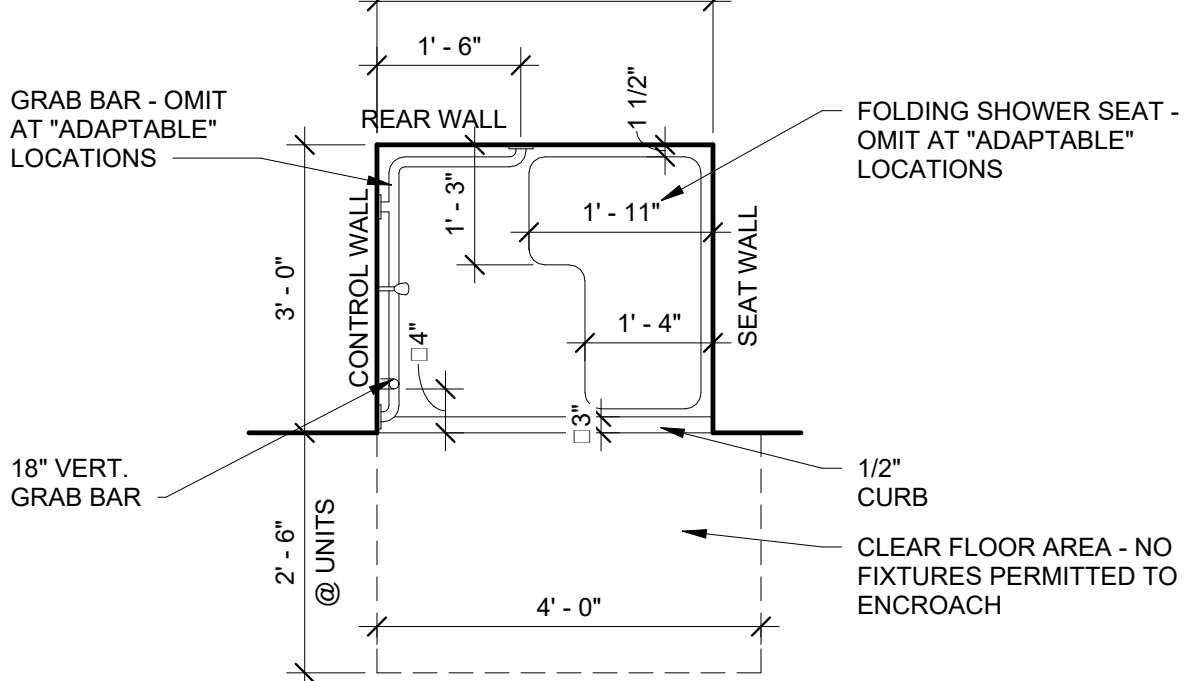
MOUNTING HEIGHTS



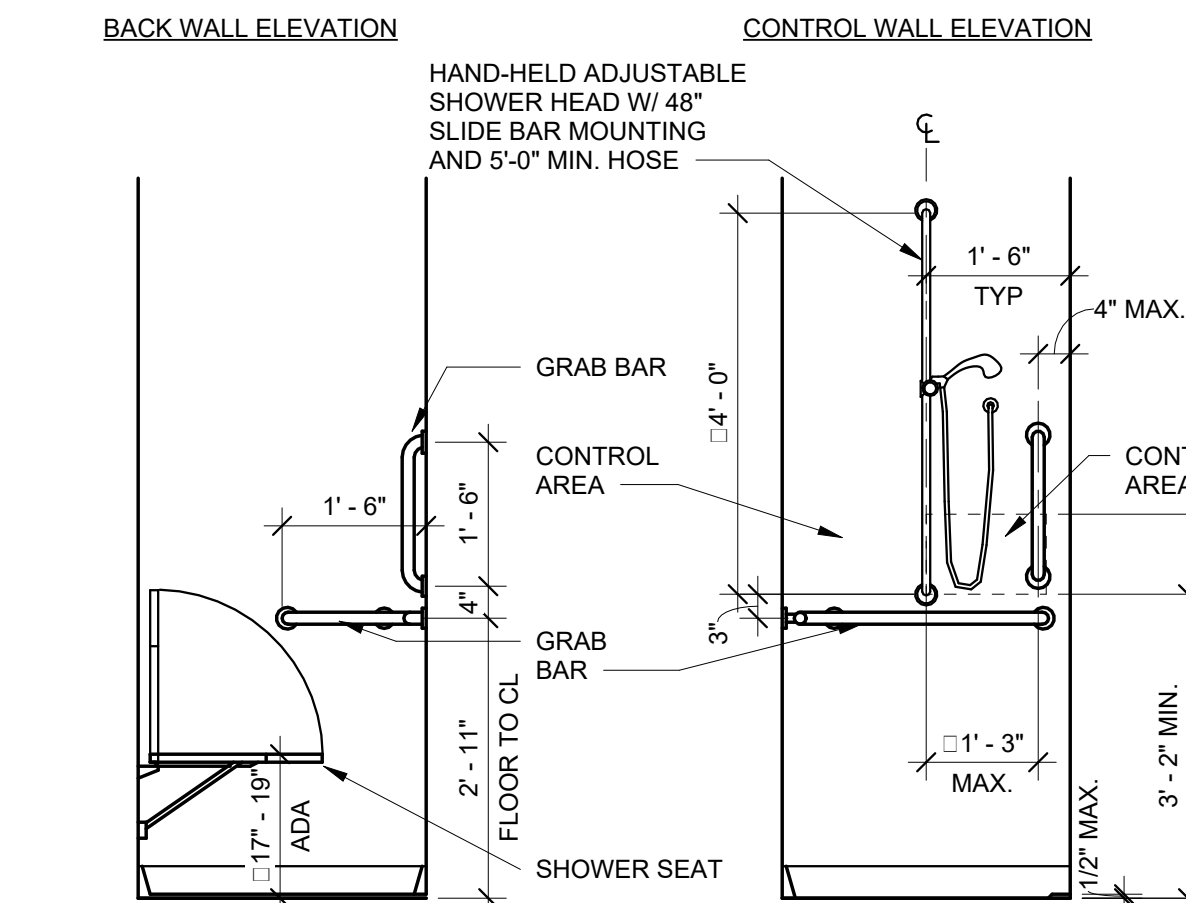
TRANSFER SHOWER PLAN



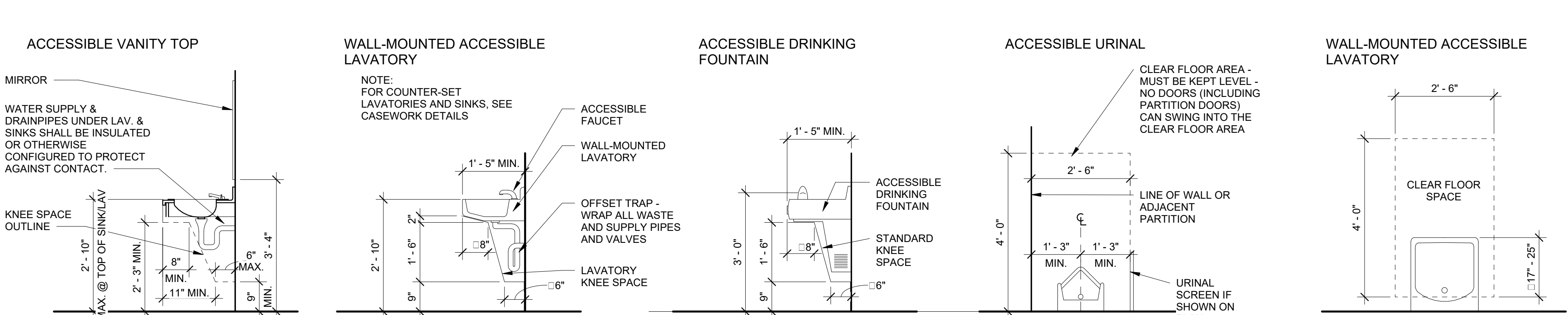
TRANSFER SHOWER



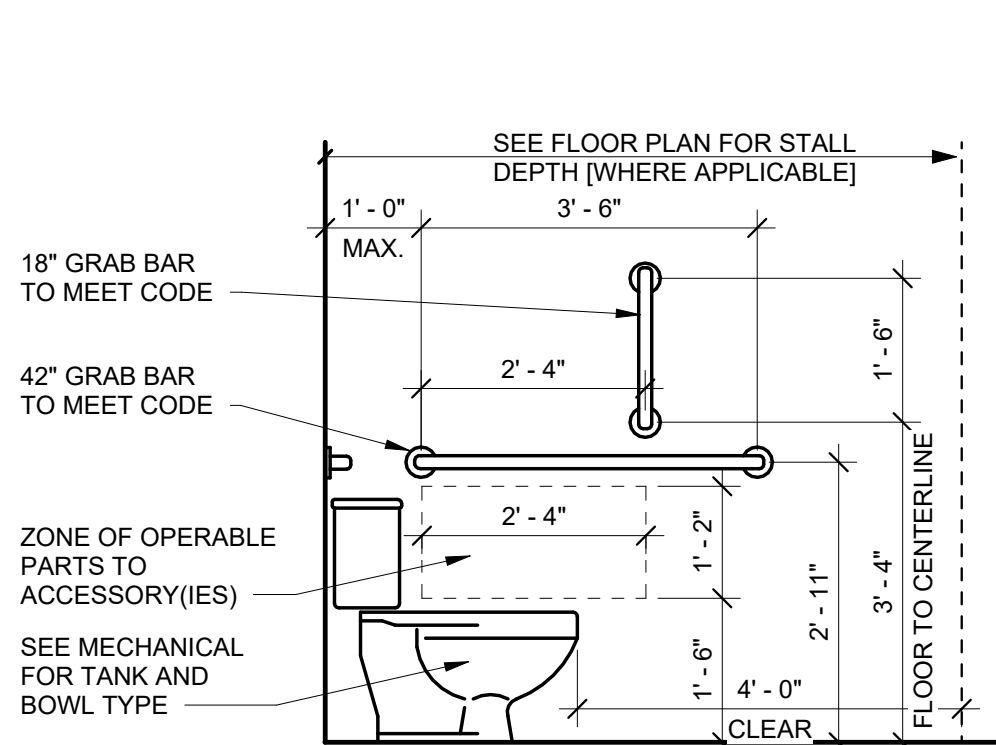
TRANSFER SHOWER ELEVATIONS



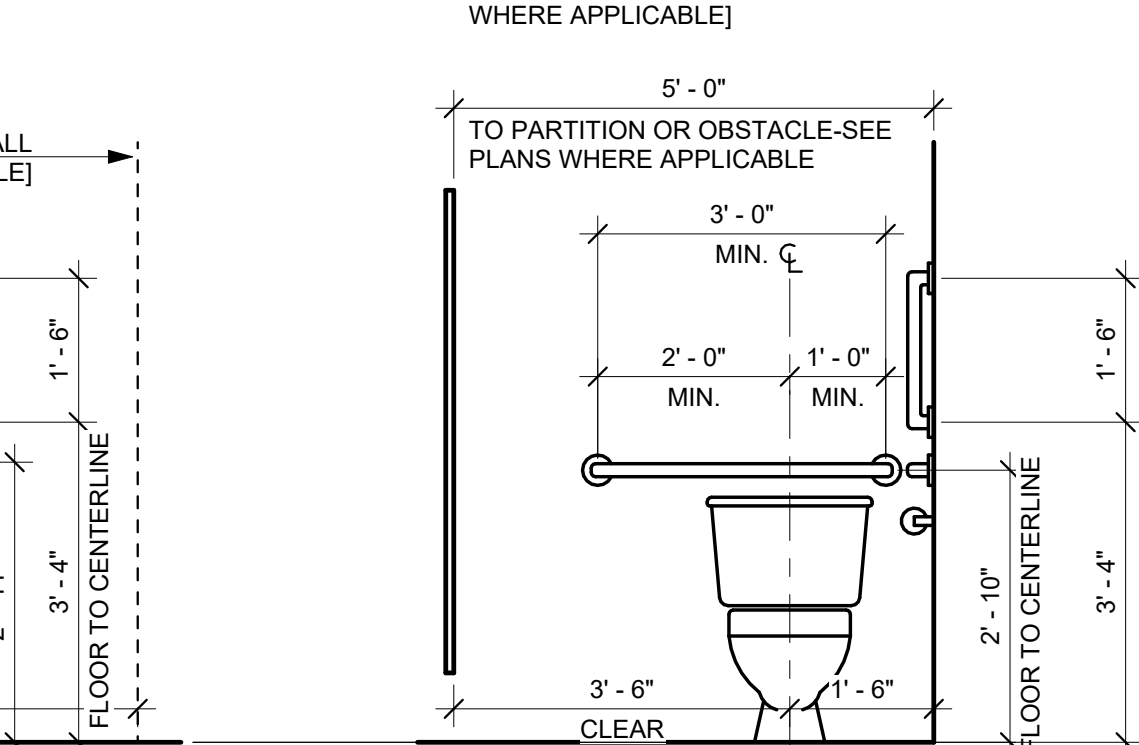
ACCESSIBLE GRAB BAR REQUIREMENTS



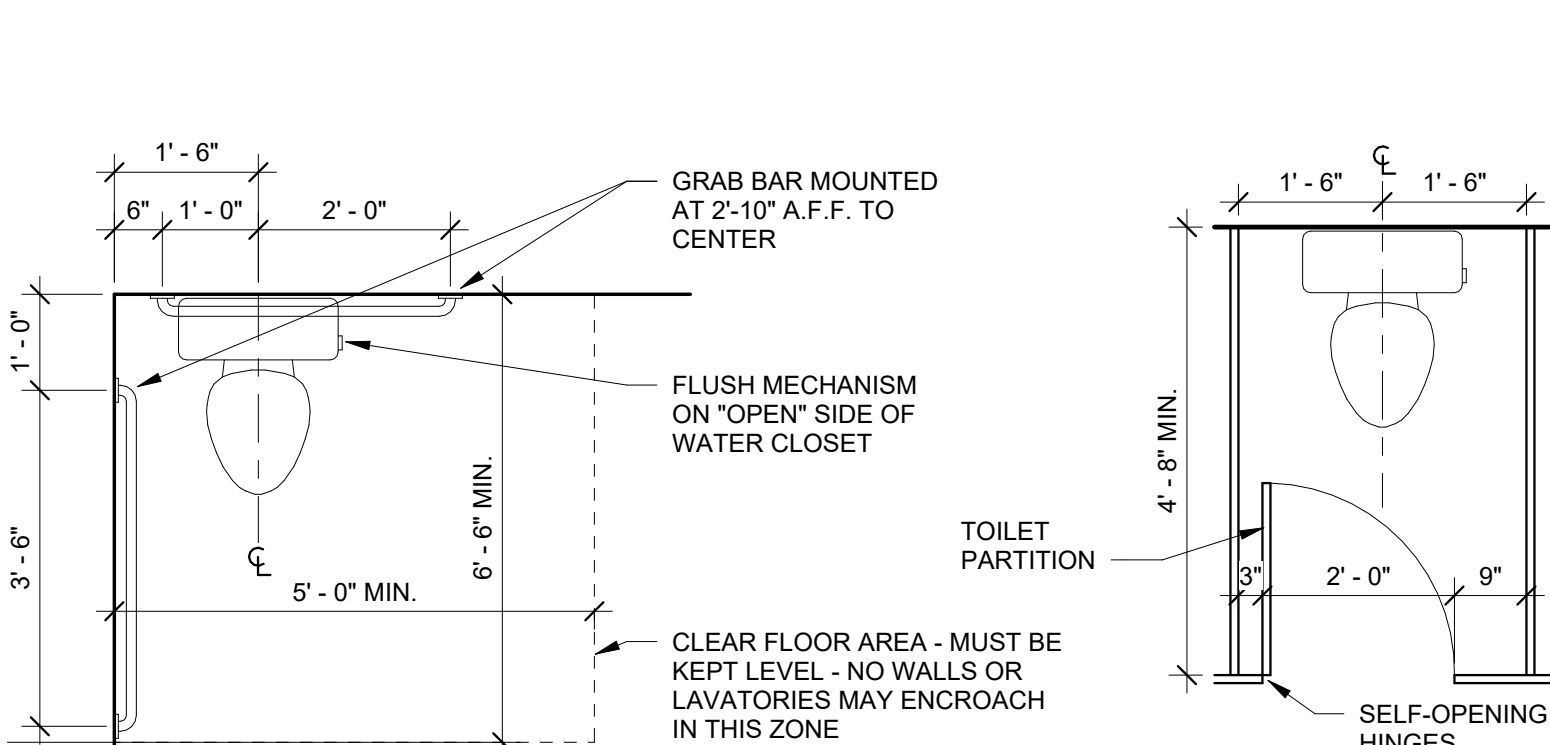
AMBULATORY TOILET STALL



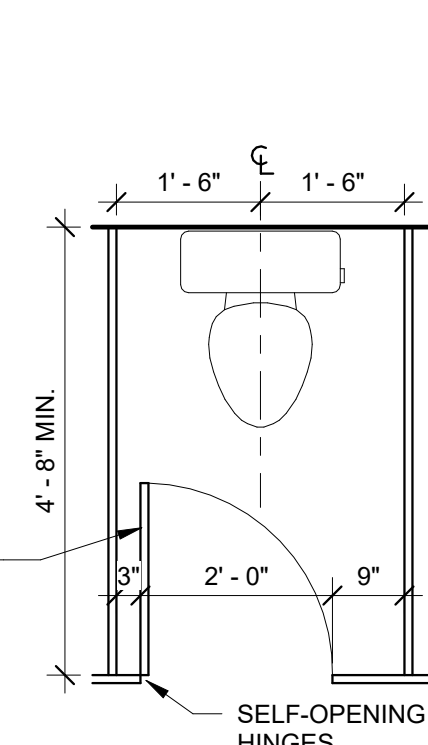
ACCESSIBLE TOILET STALL WITH IN-SWINGING DOOR



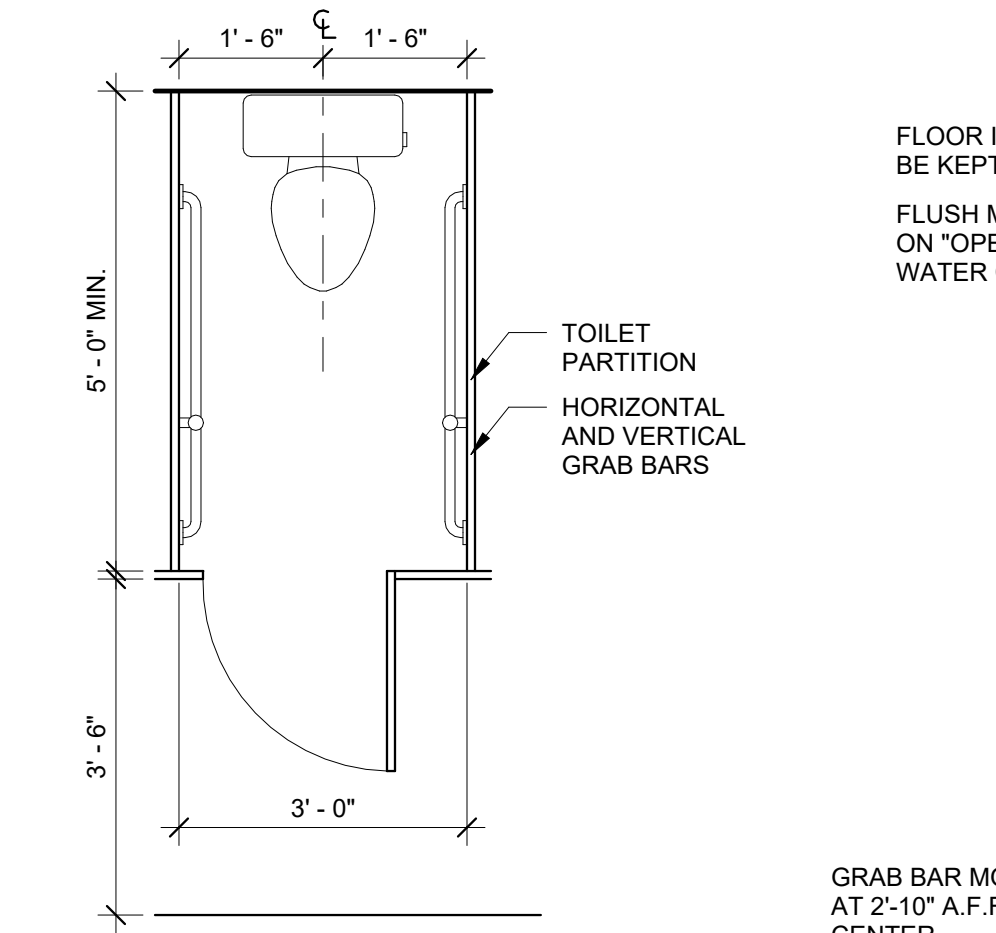
PUBLIC TOILET IN SINGLE USER ACCESSIBLE RESTROOM



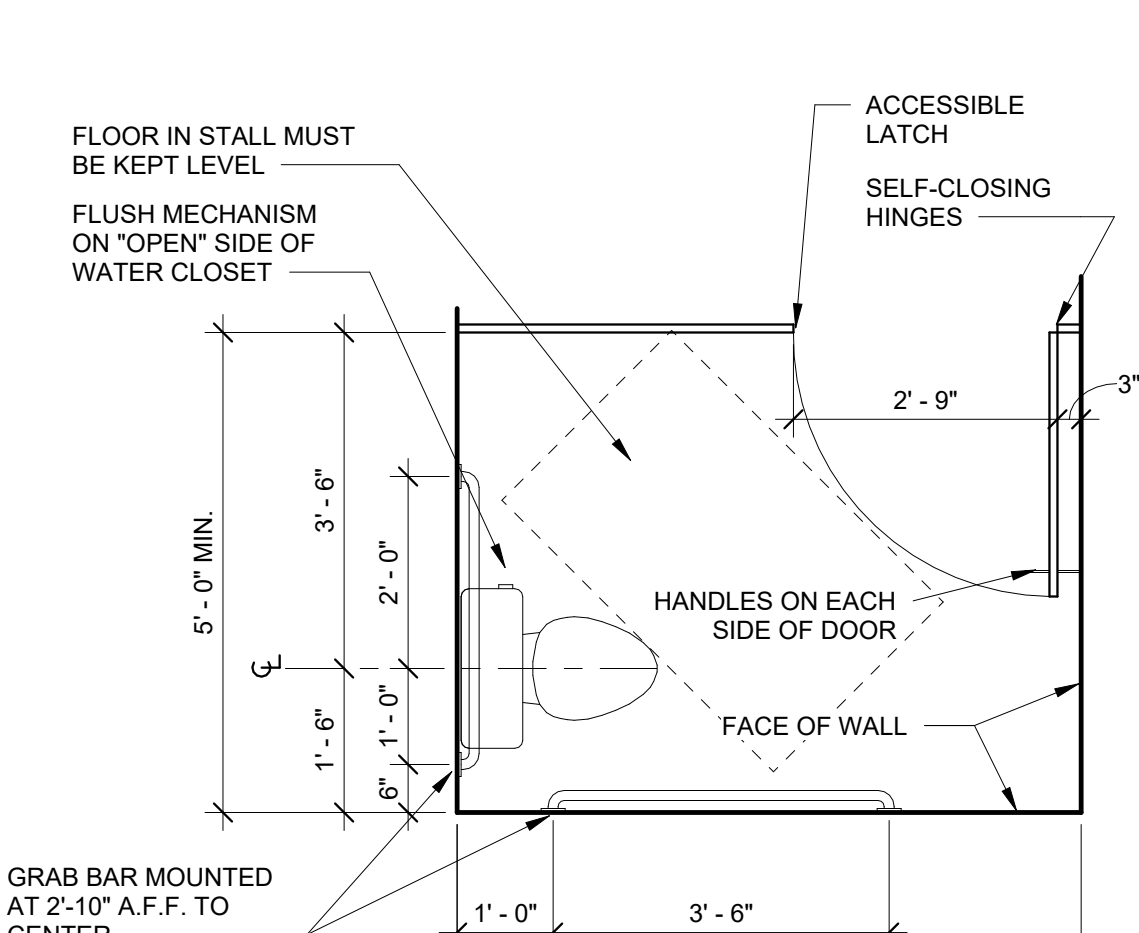
STANDARD TOILET STALL



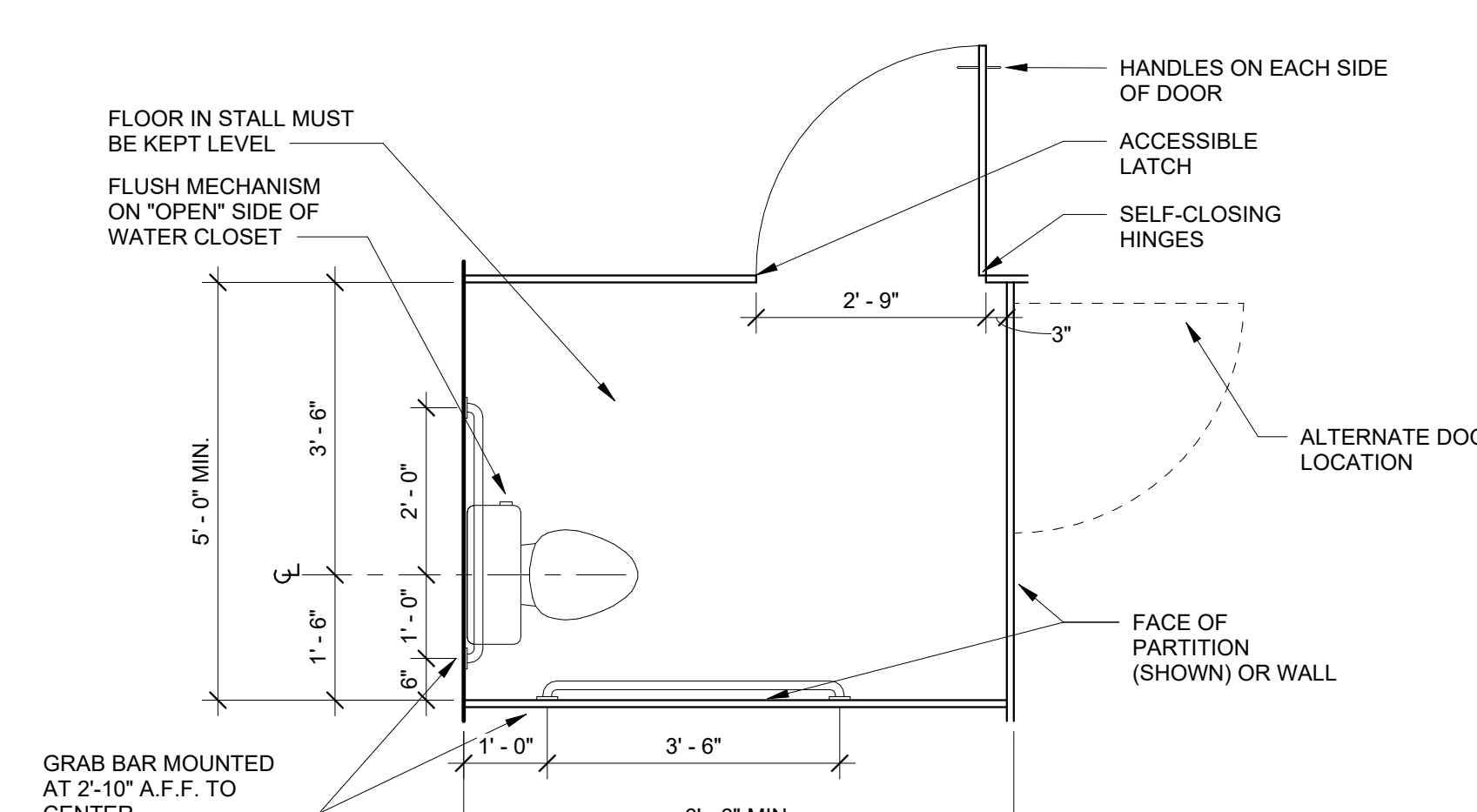
AMBULATORY TOILET STALL



ACCESSIBLE TOILET STALL WITH IN-SWINGING DOOR



ACCESSIBLE TOILET STALL WITH OUT-SWINGING DOOR





CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023

LICENSE # DATE

SHEET NAME:

CODE PLAN

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

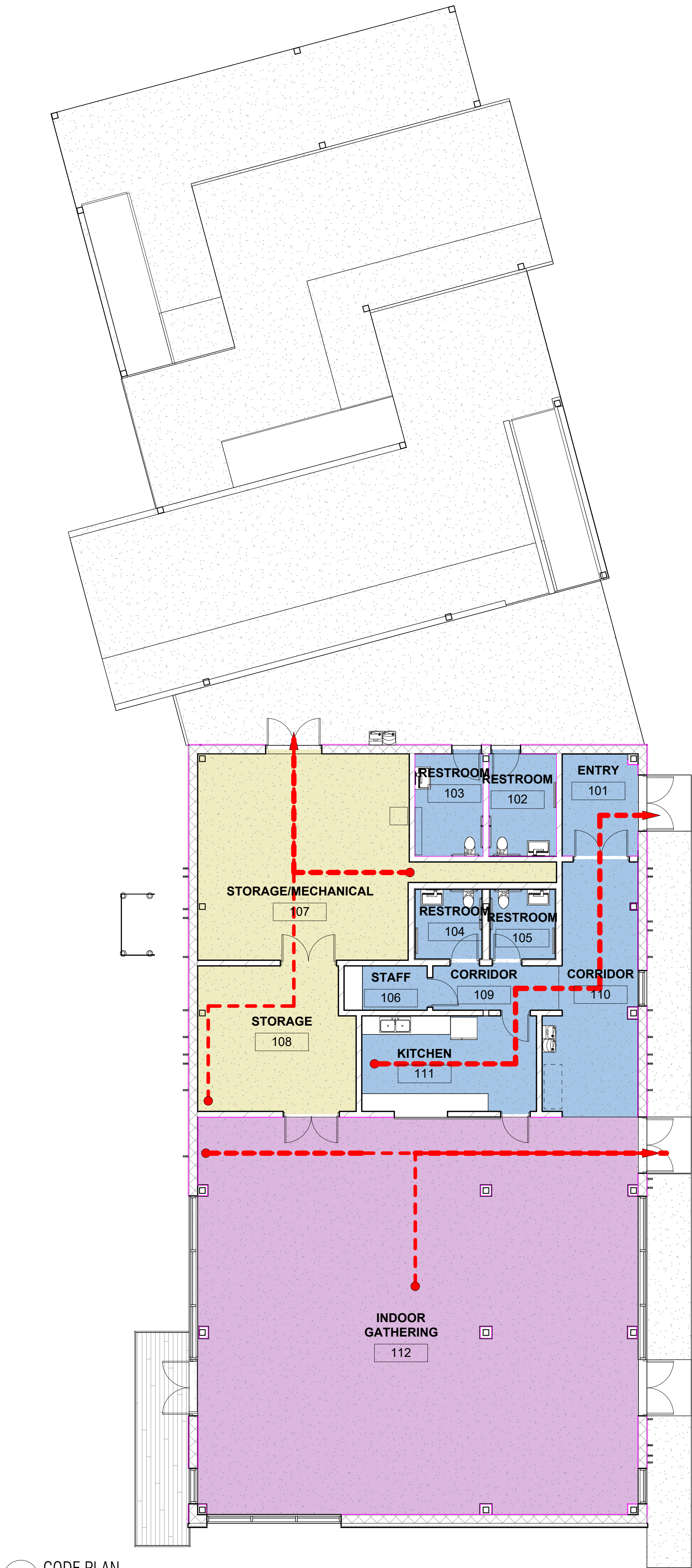
PROJECT NUMBER DATE

MMP ANC

DRAWN BY CHECKED BY

SHEET NO:

G002



2 CODE PLAN
FIRST FLOOR
1/8" = 1'-0"

APPLICABLE CODES:
2020 MINNESOTA BUILDING CODE
2020 MINNESOTA ENERGY CODE/IECC
2020 MINNESOTA FIRE CODE
2020 MINNESOTA ACCESSIBILITY CODE
2020 MINNESOTA MECHANICAL AND FUEL GAS CODE
2020 MINNESOTA PLUMBING CODE
MINNESOTA ELECTRICAL CODE

EGRESS PATH
EGRESS PATH LENGTH:
MAXIMUM ALLOWED: 400' - 0"
FIRST FLOOR: 63' - 0"
COMMON PATH OF TRAVEL
EGRESS LENGTH:
MAXIMUM ALLOWED: 100' - 0"
FIRST FLOOR: - 19' - 10"

FIRE SUPPRESSION:
FULL FIRE SUPPRESSION IS PART OF THIS PACKAGE

OCCUPANCY:
CHAPTER 3 - BUILDING AREAS
SEC. 303 - A3 2,206 SF
SEC. 304 - B 991 SF
SEC. 311 - S1 874 SF
CHAPTER 5
508.2 ACCESSORY OCCUPANCIES:
NO SEPARATION REQUIRED BETWEEN A-3 AND B
OCCUPANCIES: A3 IS AN ACCESSORY OCCUPANCY TO B.
TABLE 508.4 SEPARATED OCCUPANCIES:
NO SEPARATION NEEDED BETWEEN B AND S-1
OCCUPANCIES.

RECYCLING SPACE:
KITCHEN 0.003 PER SF
212 SF * 0.003 = 0.64 SF.
0.0025 PER SF
OFFICES 47 SF * 0.0025 = 0.12 SF.
0.001 PER SF
MECHANICAL EQUIP. ROOMS 592 SF * 0.001 = 0.59 SF.
0.0025 PER SF
STORAGE AND STOCK ROOMS 282 SF * 0.0025 = 0.71 SF.
OTHER 0.0025 PER SF
INDOOR GATHERING, CORRIDOR, ENTRY, RESTROOMS 2,938 SF * 0.0025 = 7.35 SF.
TOTAL RECYCLING SPACE REQUIRED 9.41 S.F.
TOTAL RECYCLING SPACE PROVIDED 10 S.F.

ALLOWABLE AND PROPOSED SQUARE FOOTAGE:
OCCUPANCY GROUP S-1
CONSTRUCTION TYPE V-B
MAXIMUM HEIGHT: 40 FT.
MAXIMUM STORIES: 1
MAXIMUM GROSS FLOOR AREA: 9,000 SF
ALLOWABLE AREA: 9,000 SF
OCCUPANCY GROUP B
CONSTRUCTION TYPE V-B
MAXIMUM HEIGHT: 40 FT.
MAXIMUM STORIES: 2
MAXIMUM GROSS FLOOR AREA: 18,000 SF
ALLOWABLE AREA: 9,000 SF
OCCUPANCY GROUP A-3
CONSTRUCTION TYPE V-B
MAXIMUM HEIGHT: 40 FT.
MAXIMUM STORIES: 1
MAXIMUM GROSS FLOOR AREA: 6,000 SF
ALLOWABLE AREA: 6,000 SF
PROPOSED GROSS FLOOR AREA
PROPOSED FIRST FLOOR: 4,071 SF.
TOTAL GROSS FLOOR AREA: 4,071 SF.

SECTION 506 - MODIFIED ALLOWABLE BUILDING AREA

$A_b = A_s + (NS \times I)$
 $I = 0.75$

$S-1$
 $A_b = 70,000 + (17,500 \times 0.75) = 83,125$ SF

B
 $A_b = 92,000 + (23,000 \times 0.75) = 109,250$ SF

$A-3$
 $A_b = 38,000 + (9,500 \times 0.75) = 45,125$ SF

SECTION 508.4.2 - ALLOWABLE BUILDING AREA

IN EACH STORY, THE BUILDING AREA SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL BUILDING AREA OF EACH SEPARATED OCCUPANCY DIVIDED BY THE ALLOWABLE BUILDING AREA OF EACH SEPARATE OCCUPANCY SHALL NOT EXCEED 1.

$S1$ ACTUAL / $S1$ ALLOWED = $874 / 9,000 = 0.1$
 B ACTUAL / B ALLOWED = $991 / 18,000 = 0.06$
 $A-3$ ACTUAL / $A-3$ ALLOWED = $2,206 / 6,000 = 0.4$

TOTAL RATIOS = $0.56 < 1$

CONSTRUCTION TYPE:
V-B

FIRE RESISTANCE:

IBC TABLE 601 FOR TYPE II-B		
STRUCTURAL FRAME	0	FIRE RATING
EXTERIOR BEARING WALLS	0	FIRE RATING
INTERIOR BEARING WALLS	0	FIRE RATING
EXTERIOR NON-BEARING WALLS	0	FIRE RATING
INTERIOR NON-BEARING WALLS	0	FIRE RATING
FLOOR CONSTRUCTION	0	FIRE RATING
ROOF CONSTRUCTION	0	FIRE RATING

IBC TABLE 602 FOR TYPE V-B		
EXTERIOR WALLS	0	BUILDING IS GREATER THAN 30' FROM ALL PROPERTY LINES

OCCUPANCY COUNT (2020 MN BUILDING CODE):

ASSEMBLY - UNCONCENTRATED 15 SF/OCCUPANT NET		
2,206 SF	147.1	INDOOR GATHERING SPACE
BUSINESS AREAS 150 SF/OCCUPANT GROSS		
991 SF	6.6	STAFF OFFICE, RESTROOMS, CORRIDOR, KITCHEN, ENTRY
ACCESSORY STORAGE AREAS 300 SF/OCCUPANT GROSS		
874 SF	2.9	STORAGE/MECHANICAL ROOM, STORAGE

157 TOTAL OCCUPANTS

RESTROOM FIXTURE COUNT PER CHAPTER 29

ASSEMBLY - 147.1	WC	LAV	DF	SERVICE SINK
INDOOR GATHERING SPACE	M: 73.6"1/125 W: 73.6"1/65	M/W: 73.5"1/200	147.1"1/500	
REQUIRED	M: 0.59 W: 1.13	M: 0.37 W: 0.37	0.29	0
BUSINESS - 6.6	M/W: 3.3"1/25	M/W: 3.3"1/40	6.6"1/100	
STAFF OFFICE, RESTROOMS, CORRIDOR, KITCHEN, ENTRY	M: 0.13 W: 0.13	M: 0.08 W: 0.08	0.07	0
REQUIRED				
STORAGE - 2.9	M/W: 2.9"1/100	M/W: 2.9"1/100	2.9"1/1000	
STORAGE/MECHANICAL ROOM, STORAGE	M: 0.03 W: 0.03	M: 0.03 W: 0.03	0.003	0
REQUIRED				
TOTAL REQUIRED	3 (M: 0.75 W: 1.29)	2 (M: 0.48 W: 0.48)	1 (0.35)	0
TOTAL PROVIDED	4 (M: 0 W: 0 SINGLE USE: 4)	4 (M: 0 W: 0 SINGLE USE: 4)	2	1

CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community
Building

5872 NE CENTRAL AVE., FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023

LICENSE # DATE

SHEET NAME:

SITE PLAN

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

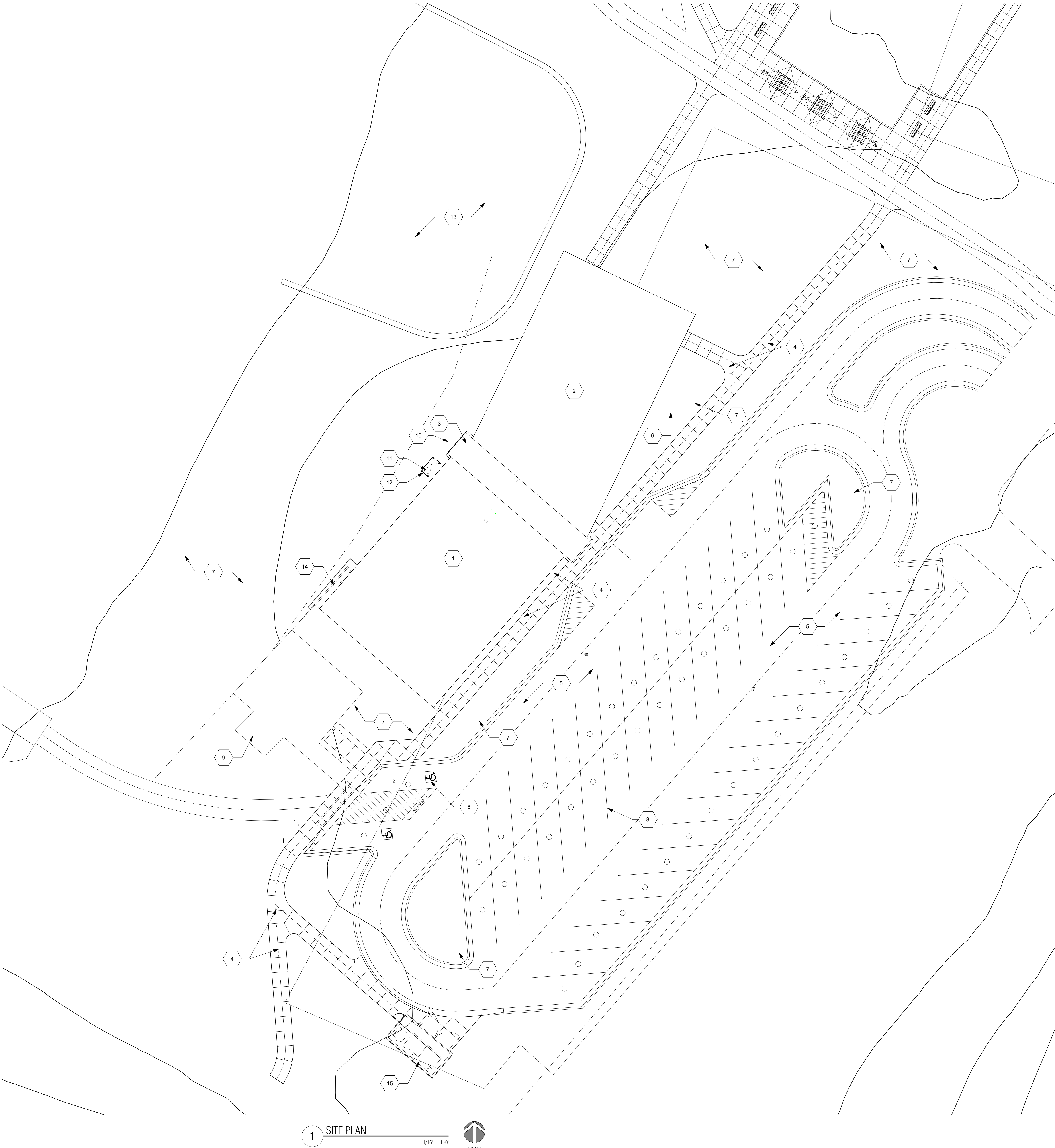
PROJECT NUMBER DATE

MMP ANC

DRAWN BY CHECKED BY

SHEET NO:

A001



GENERAL NOTES:

CURB PAVING, LANDSCAPE, AND UTILITY INFORMATION SHOWN FOR REFERENCE ONLY. SEE CIVIL / SITE, LANDSCAPE AND MECHANICAL / ELECTRICAL PLANS FOR OTHER ITEMS AND ADDITIONAL DETAIL.

NOT ALL KEYNOTES PRESENT ON EACH PAGE. SEE OTHER SITE PLAN SHEETS FOR ALL RELATED NOTES AND LOCATIONS

SITE KEYNOTES:

- 1

PARK BUILDING - ENCLOSED SPACE
- 2

PARK BUILDING - COVERED PATIO
- 3

ROOF DRAINAGE TROUGH AND SCUPPER
- 4

CONCRETE PAVING, INCLUDES SIDEWALK BETWEEN DOOR APRONS AND STOOPS - SEE CIVIL PAVING PLAN, SEE SPECIFICATIONS
- 5

ASPHALT PAVING - SEE CIVIL PAVING PLAN, SEE SPECIFICATIONS
- 6

CONCRETE PAD FOR TRANSFORMER - SEE ELECTRICAL, COORDINATE PAD SIZE AND DESIGN WITH UTILITY COMPANY
- 7

SITE PLANTING - SEE LANDSCAPE
- 8

PARKING AND ADA STRIPING AS INDICATED

9

OUTDOOR GRILL AREA - SEE CIVIL

10

ROOF RUNOFF CATCHMENT AREA - SEE CIVIL

11

MECHANICAL EQUIPMENT - SEE MECHANICAL

12

EQUIPMENT ENCLOSURE - SEE SHEET A002

13

BEACH AREA - SEE CIVIL

14

DECK

15

DUMPSTER ENCLOSURE - SEE CIVIL

1 SITE PLAN

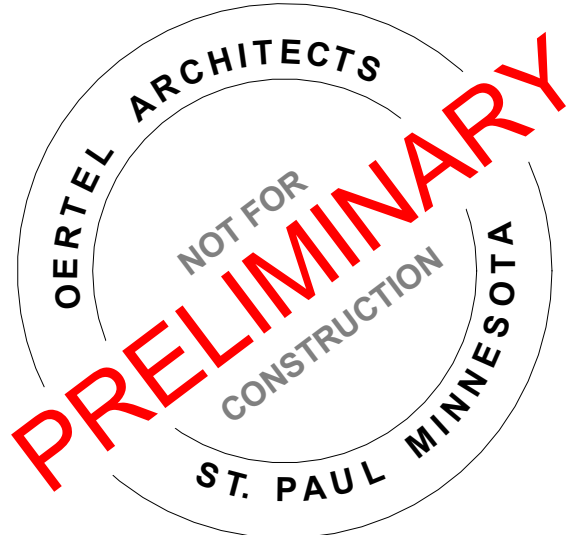
1/16" = 1'-0"


NORTH



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:

MAIN FLOOR PLAN

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

PROJECT NUMBER DATE

MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

A101

FIRE RATED WALLS:

NO FIRE RATED WALLS REQUIRED ON THIS PROJECT

GENERAL NOTES:

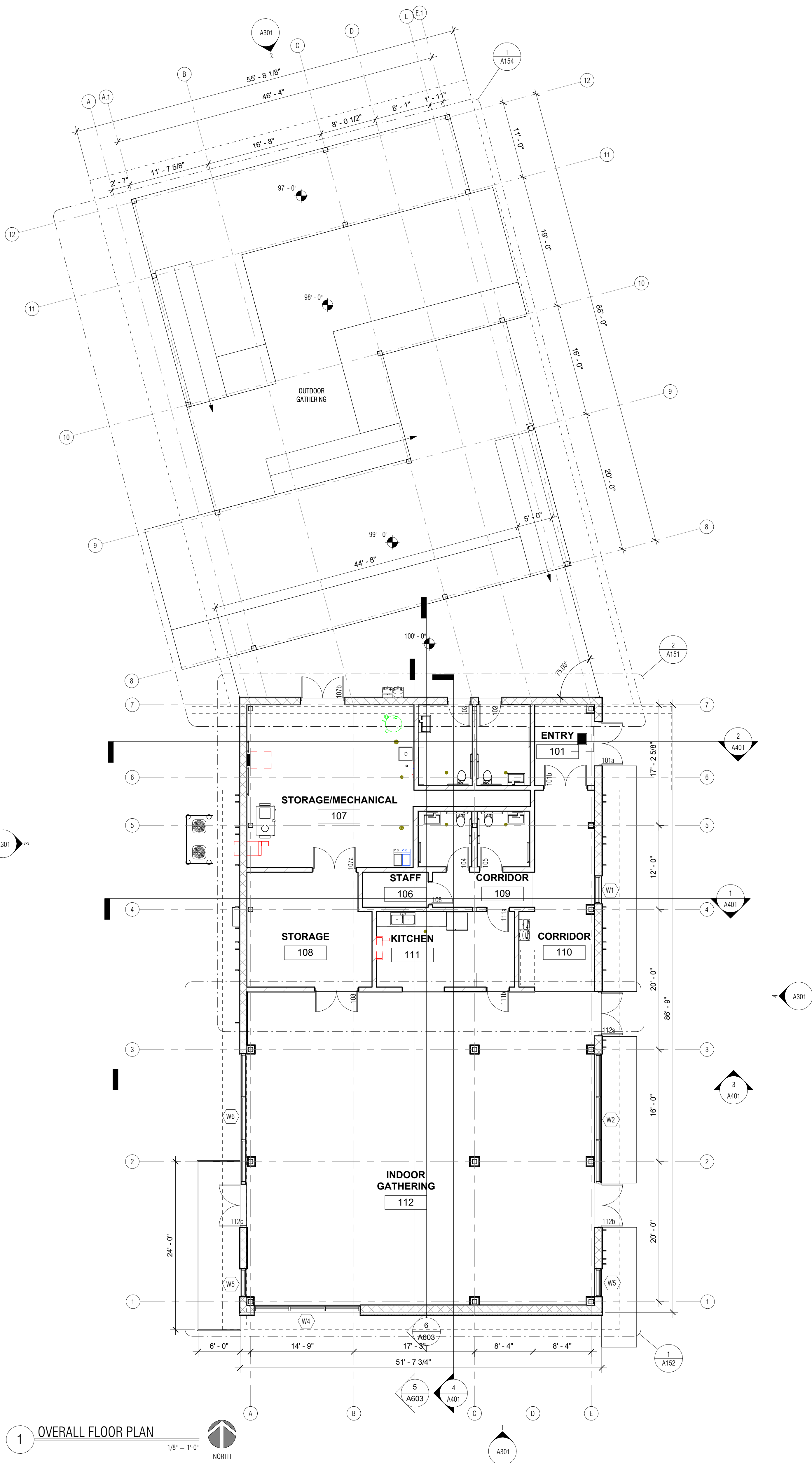
PLAN NOTES ARE TYPICAL FOR ALL BUILDING PLANS. SOME NOTES MAY NOT BE LOCATED ON ONE PLAN VIEW, BUT ARE STILL APPLICABLE WITHIN THE PROJECT

WALL SCHEDULE						
TYPE	GRAPHIC	CONSTRUCTION			TOTAL THICKNESS	FIRE RATING
		SURFACE 1	ASSEMBLY CORE	SURFACE 2		
A		PLAIN	12" BLOCK	PLAIN	11 5/8"	-
B		PLAIN	8" BLOCK	PLAIN	7 5/8"	-
B.1		PLAIN	8" BLOCK	3/4" PLY WD. WOOD PANELING	3/4"	-

PLAN KEYNOTES:

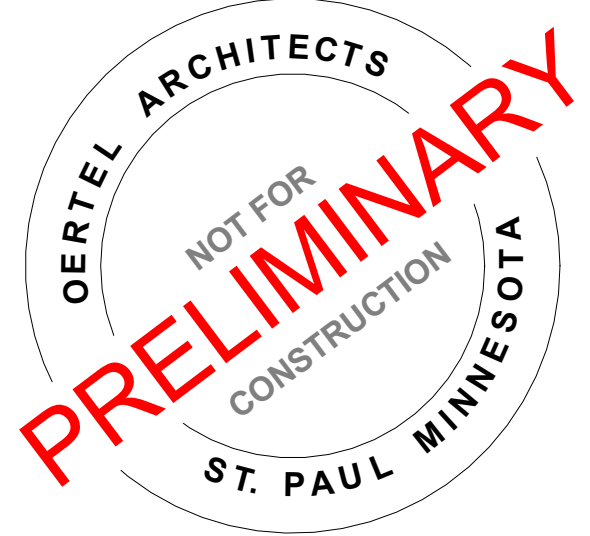
- 01 CONCRETE SLAB ON GRADE, SEE STRUCTURAL FOR REINFORCEMENT AND DETAILS/NOTES - SEAL ALL CONTROL AND CONSTRUCTION JOINTS
- 02 8x8 HS COLUMN, TYP. SEE STRUCTURAL FOR DETAILS, PAINT PER SCHEDULE
- 03 POLISHED CONCRETE FLOORS, SEE FINISH SCHEDULE
- 04 ALUMINUM WINDOW SYSTEM
- 05 EXTERIOR HOLLOW METAL DOOR AND FRAME, PAINT PER SCHEDULE, SEE SCHEDULE FOR INFORMATION, PROVIDE STRUCTURAL STOOP AT ALL EXTERIOR DOORS
- 06 INTERIOR HOLLOW METAL DOOR AND FRAME, RETURN WALL FINISH TO DOOR FRAME, SEE SCHEDULE FOR INFORMATION
- 07 INTERIOR WOOD DOOR AND HOLLOW METAL FRAME, RETURN WALL FINISH TO DOOR FRAME, SEE SCHEDULE FOR INFORMATION
- 08 PRE-FINISHED ALUMINUM WINDOW / ENTRY SYSTEM, SEE SCHEDULE FOR TYPE INFORMATION
- 09 STRUCTURAL INSULATED ROOF PANELS
- 10 ELECTRICAL EQUIPMENT - SEE ELECTRICAL
- 11 4" CONCRETE HOUSEKEEPING PAD - VERIFY LOCATION AND SIZE WITH MECHANICAL EQUIPMENT
- 12 4" CONCRETE SITE PAVING, TOOLED JOINTS, PROVIDE EXPANSION MATERIAL BETWEEN PAVING AND BUILDING - SEAL JOINTS
- 13 CONCRETE APRON, SEE PLANS FOR WIDTH - SEE STRUCTURAL
- 14 CONCRETE STOOP, SEE PLANS FOR WIDTH - SEE STRUCTURAL
- 15 STAINLESS STEEL ADA GRAB BARS
- 16 WALL MOUNTED TOILET - SEE MECHANICAL FOR DETAILS/NOTES
- 17 WALL MOUNTED PAPER TOWEL HOLDER - BY OWNER
- 18 WALL MOUNTED MIRROR
- 19 WALL MOUNTED ADULT CHANGING TABLE
- 20 BABY CHANGING TABLE
- 21 DUAL HEIGHT WALL MOUNTED ADA DRINKING FOUNTAINS
- 22 JANITOR MOP SINK, ADD FRP PANELS WHERE ADJACENT WALLS ARE NOT BLOCK - SEE MECHANICAL FOR NOTES/DETAILS
- 23 WALL MOUNTED ALL-IN-ONE SINK - SEE MECHANICAL FOR DETAILS/NOTES
- 24 MECHANICAL EQUIPMENT - SEE MECHANICAL FOR DETAILS/NOTES
- 25 FLOOR DRAIN - SEE MECHANICAL FOR DETAILS/NOTES
- 26 SOLID SURFACE COUNTER TOP
- 27 WALL MOUNTED ADA DRINKING FOUNTAIN
- 28 TRASH RECEPTACLE AREA
- 29 KITCHEN PASS THROUGH WINDOW
- 30 STAINLESS STEEL SINK
- 31 SEALED CONCRETE FLOORS, SEE FINISH SCHEDULE
- 32 BARN DOOR AND TRACK
- 33 OBSERVATION DECK
- 34 WOOD GRAIN COMPOSITE SIDING FIN
- 35 REFRIGERATOR BY OWNER

GENERAL NOTES:
PLAN NOTES ARE TYPICAL FOR ALL BUILDING PLANS. SOME NOTES MAY NOT BE LOCATED ON ONE PLAN VIEW, BUT ARE STILL APPLICABLE WITHIN THE PROJECT



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:

Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:

ANDREW N. COOPER

4648502/03/2023

LICENSE #DATE

SHEET NAME:

ROOF PLAN

REVISIONS:		
No.	Date	Description

22-2502/03/2023

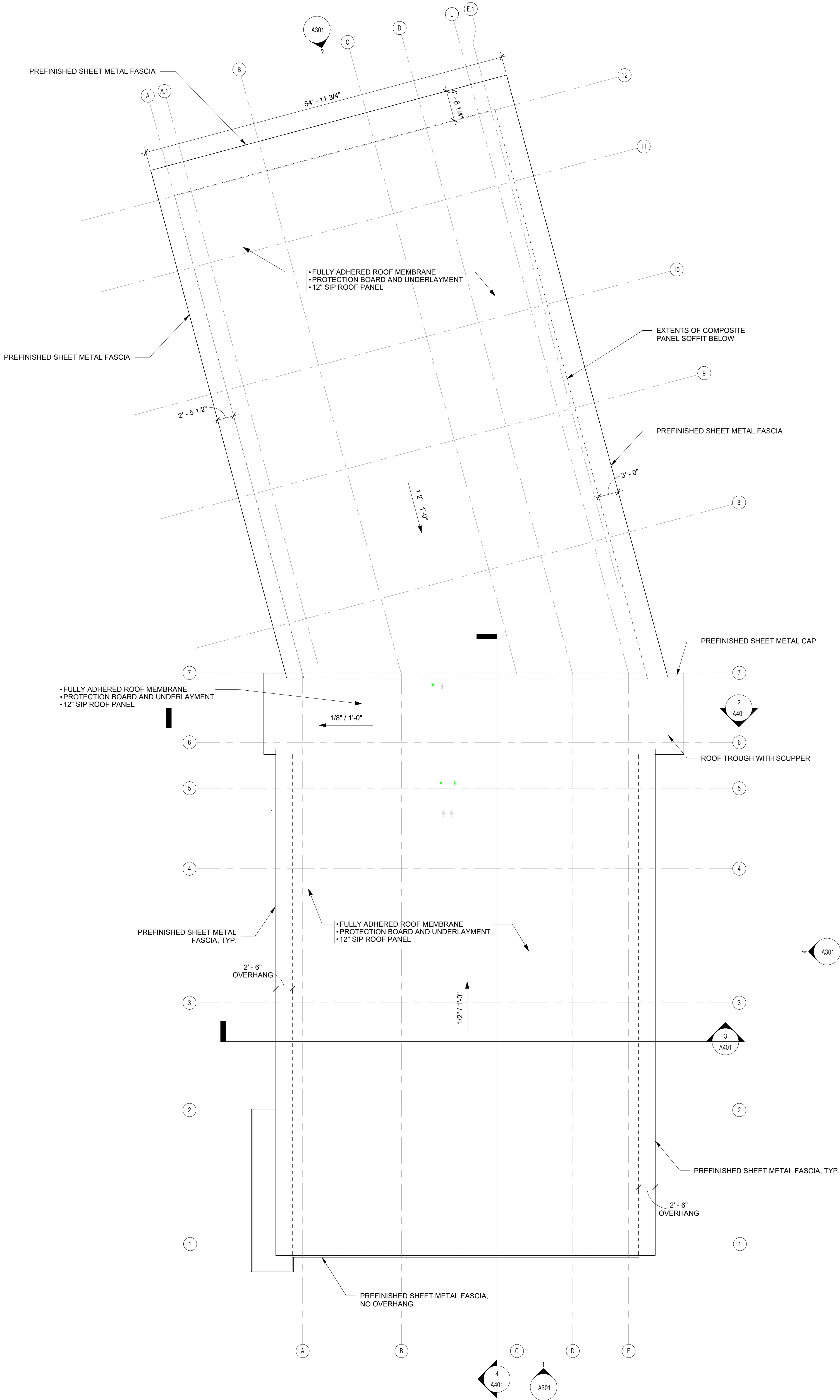
PROJECT NUMBERDATE

MMPANC

DRAWN BYCHECKED BY

SHEET NO:

A103



1 ROOF PLAN

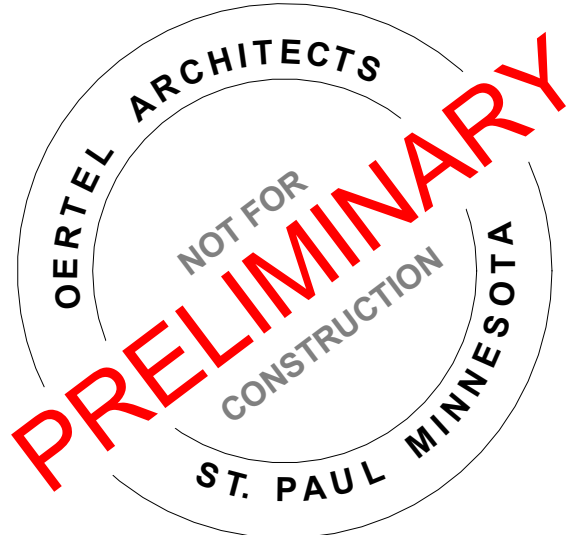
1/8" = 1'-0"

NORTH



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:

ENLARGED FLOOR PLAN

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

PROJECT NUMBER DATE

MMP ANC
DRAWN BY CHECKED BY

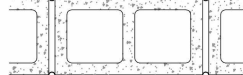
SHEET NO:

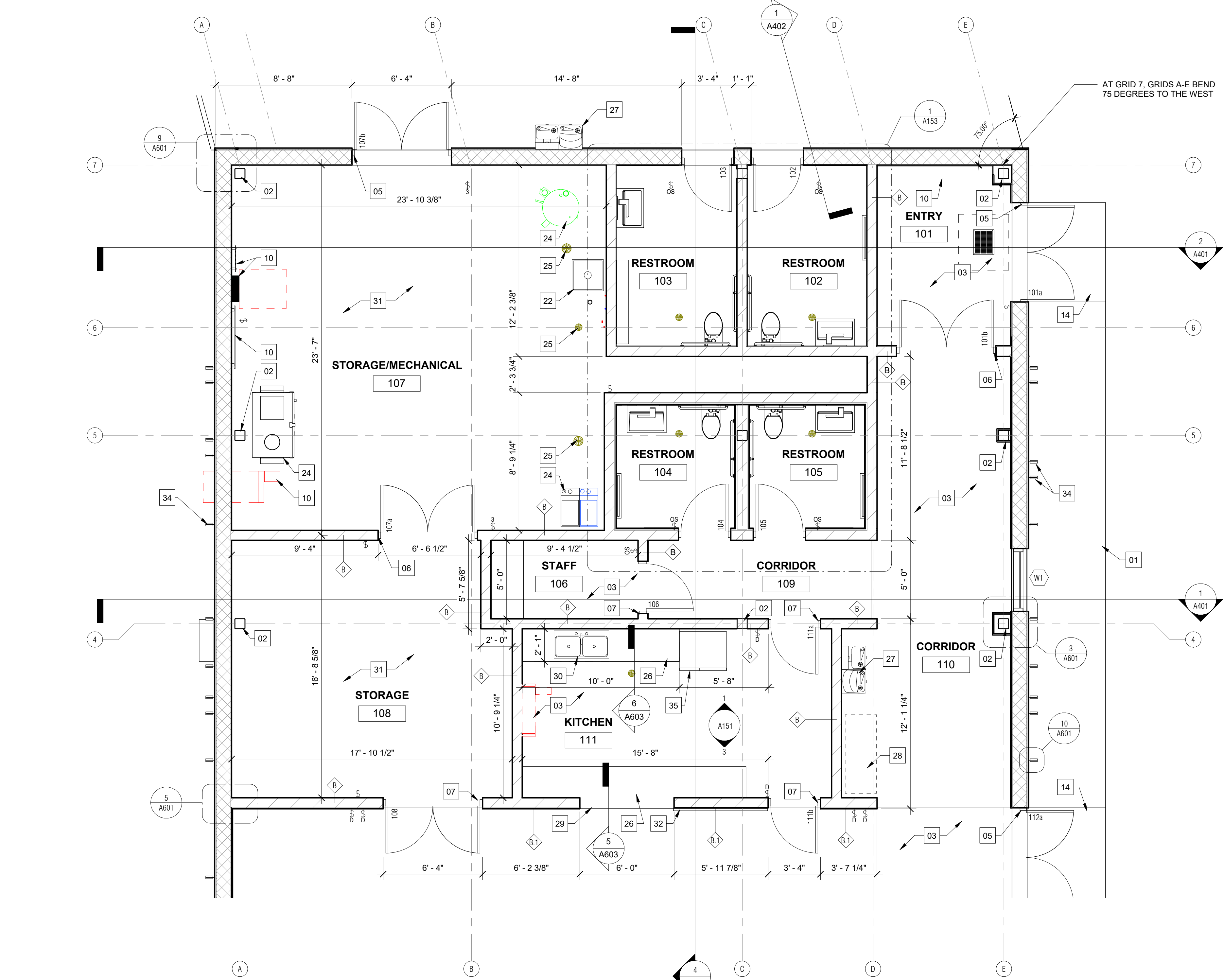
A151

PLAN KEYNOTES:

- 01 CONCRETE SLAB ON GRADE. SEE STRUCTURAL FOR REINFORCEMENT AND DETAILS/NOTES - SEAL ALL CONTROL AND CONSTRUCTION JOINTS
- 02 8x8 HS COLUMN, TYP. SEE STRUCTURAL FOR DETAILS, PAINT PER SCHEDULE
- 03 POLISHED CONCRETE FLOORS, SEE FINISH SCHEDULE
- 04 ALUMINUM WINDOW SYSTEM
- 05 EXTERIOR HOLLOW METAL DOOR AND FRAME, PAINT PER SCHEDULE, SEE SCHEDULE FOR INFORMATION, PROVIDE STRUCTURAL STOOP AT ALL EXTERIOR DOORS
- 06 INTERIOR HOLLOW METAL DOOR AND FRAME, RETURN WALL FINISH TO DOOR FRAME, SEE SCHEDULE FOR INFORMATION
- 07 INTERIOR WOOD DOOR AND HOLLOW METAL FRAME, RETURN WALL FINISH TO DOOR FRAME, SEE SCHEDULE FOR INFORMATION
- 08 PRE-FINISHED ALUMINUM WINDOW / ENTRY SYSTEM, SEE SCHEDULE FOR TYPE INFORMATION
- 09 STRUCTURAL INSULATED ROOF PANELS
- 10 ELECTRICAL EQUIPMENT - SEE ELECTRICAL
- 11 4" CONCRETE HOUSEKEEPING PAD - VERIFY LOCATION AND SIZE WITH MECHANICAL EQUIPMENT
- 12 4" CONCRETE SITE PAVING, TOOLED JOINTS, PROVIDE EXPANSION MATERIAL BETWEEN PAVING AND BUILDING - SEAL JOINTS
- 13 CONCRETE APRON, SEE PLANS FOR WIDTH - SEE STRUCTURAL
- 14 CONCRETE STOOP, SEE PLANS FOR WIDTH - SEE STRUCTURAL
- 15 STAINLESS STEEL ADA GRAB BARS
- 16 WALL MOUNTED TOILET - SEE MECHANICAL FOR DETAILS/NOTES
- 17 WALL MOUNTED PAPER TOWEL HOLDER - BY OWNER
- 18 WALL MOUNTED MIRROR
- 19 WALL MOUNTED ADULT CHANGING TABLE
- 20 BABY CHANGING TABLE
- 21 DUAL HEIGHT WALL MOUNTED ADA DRINKING FOUNTAINS
- 22 JANITOR MOP SINK, ADD FRP PANELS WHERE ADJACENT WALLS ARE NOT BLOCK - SEE MECHANICAL FOR NOTES/DETAILS
- 23 WALL MOUNTED ALL-IN-ONE SINK - SEE MECHANICAL FOR DETAILS/NOTES
- 24 MECHANICAL EQUIPMENT - SEE MECHANICAL FOR DETAILS/NOTES
- 25 FLOOR DRAIN - SEE MECHANICAL FOR DETAILS/NOTES
- 26 SOLID SURFACE COUNTER TOP
- 27 WALL MOUNTED ADA DRINKING FOUNTAIN
- 28 TRASH RECEPACLE AREA
- 29 KITCHEN PASS THROUGH WINDOW
- 30 STAINLESS STEEL SINK
- 31 SEALED CONCRETE FLOORS, SEE FINISH SCHEDULE
- 32 BARN DOOR AND TRACK
- 33 OBSERVATION DECK
- 34 WOOD GRAIN COMPOSITE SIDING FIN
- 35 REFRIGERATOR BY OWNER

GENERAL NOTES:
PLAN NOTES ARE TYPICAL FOR ALL BUILDING PLANS. SOME NOTES MAY NOT BE LOCATED ON ONE PLAN VIEW, BUT ARE STILL APPLICABLE WITHIN THE PROJECT

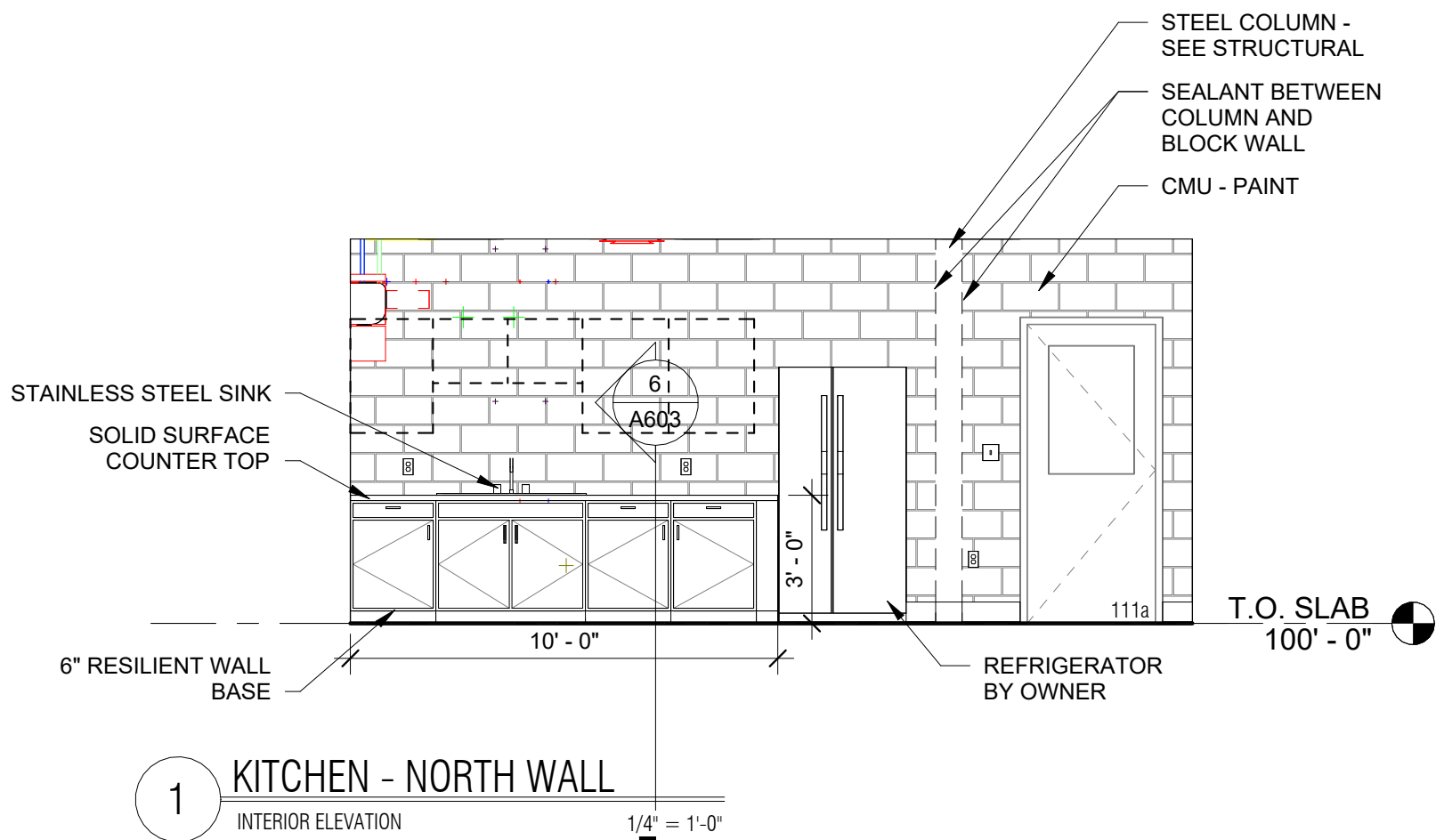
WALL SCHEDULE							
TYPE	GRAPHIC	CONSTRUCTION ASSEMBLY			TOTAL THICKNESS	FIRE RATING	NOTES
		SURFACE 1	CORE	SURFACE 2			
A		PLAIN	12" BLOCK	PLAIN	11 5/8"	-	ELECTRICAL CONDUIT SHALL BE EMBEDDED WITHIN WALL - COORDINATE WITH REINFORCEMENT REQUIREMENTS
B		PLAIN	8" BLOCK	PLAIN	7 5/8"	-	ELECTRICAL CONDUIT SHALL BE EMBEDDED WITHIN WALL - COORDINATE WITH REINFORCEMENT REQUIREMENTS
B.1		PLAIN	8" BLOCK	3/4" PLY WD, WOOD PANELING	3/4"	-	ELECTRICAL CONDUIT SHALL BE EMBEDDED WITHIN WALL - COORDINATE WITH REINFORCEMENT REQUIREMENTS



2 ENLARGED FLOOR PLAN

SUPPORT SPACES

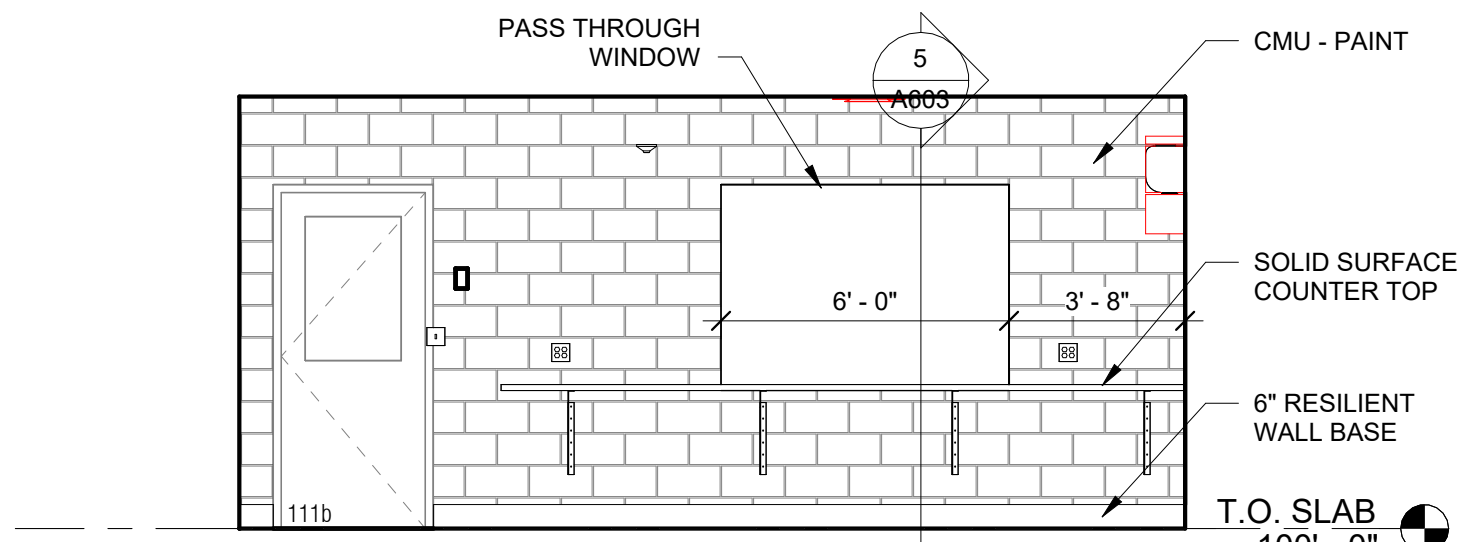
1/4" = 1'-0"



1 KITCHEN - NORTH WALL

INTERIOR ELEVATION

1/4" = 1'-0"



3 KITCHEN - SOUTH WALL

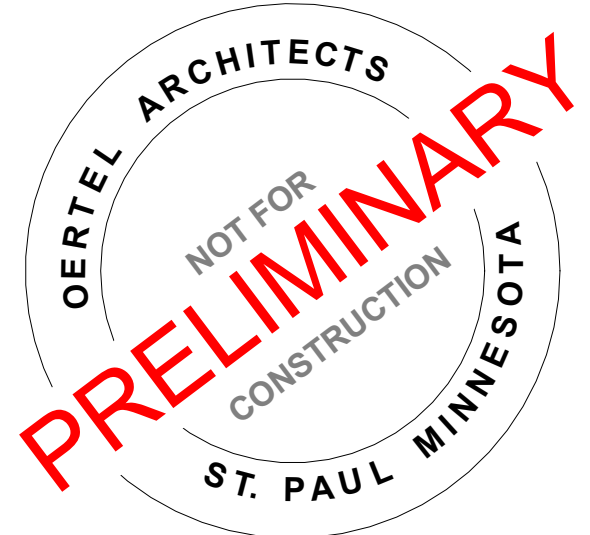
INTERIOR ELEVATION

1/4" = 1'-0"



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building
5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:
ENLARGED INDOOR GATHERING PLAN

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

PROJECT NUMBER DATE

MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

A152

FIRE RATED WALLS:

NO FIRE RATED WALLS REQUIRED ON THIS PROJECT

GENERAL NOTES:

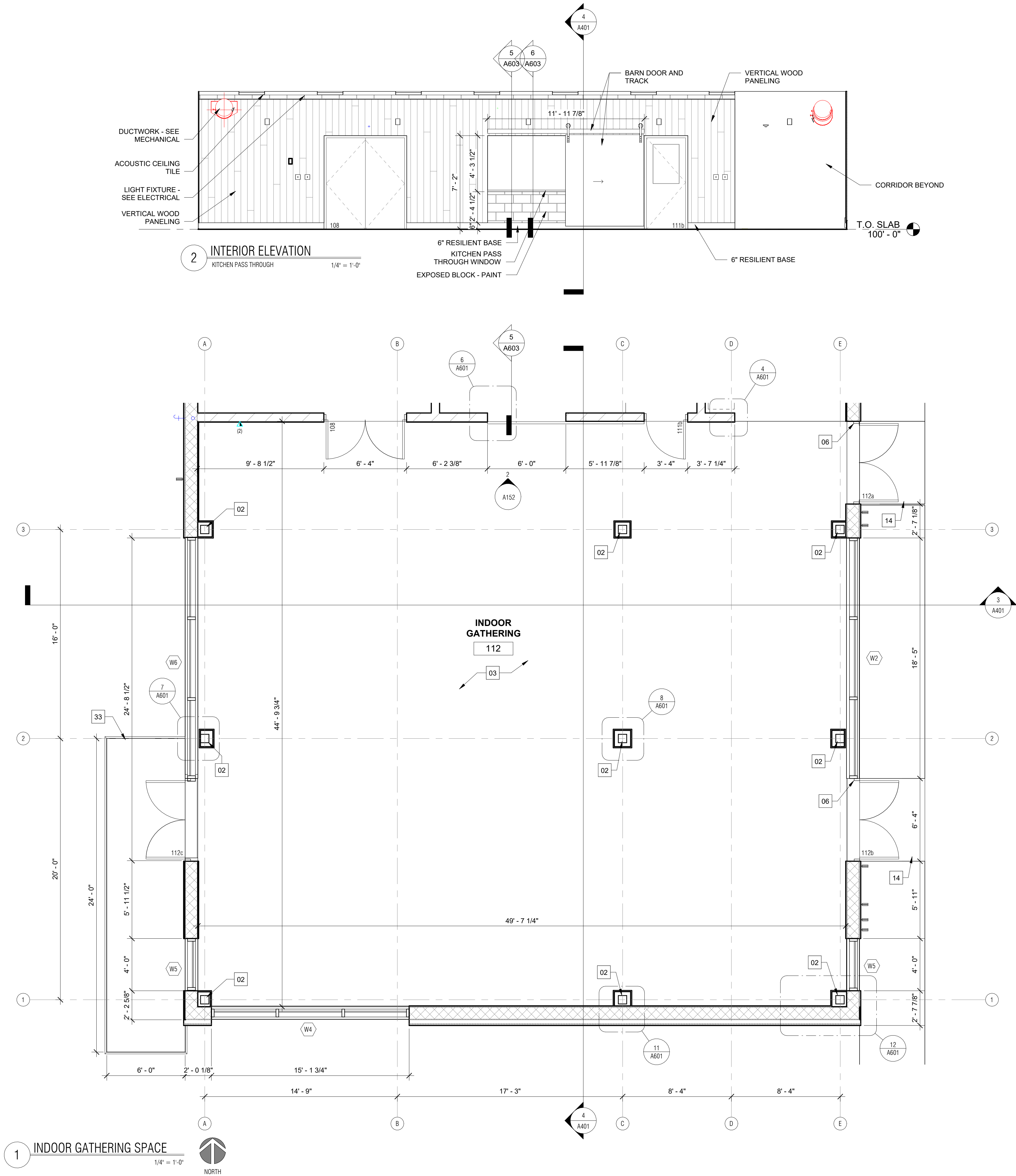
PLAN NOTES ARE TYPICAL FOR ALL BUILDING PLANS. SOME NOTES MAY NOT BE LOCATED ON ONE PLAN VIEW, BUT ARE STILL APPLICABLE WITHIN THE PROJECT

WALL SCHEDULE							
TYPE	GRAPHIC	CONSTRUCTION			TOTAL THICKNESS	FIRE RATING	NOTES
		SURFACE 1	ASSEMBLY CORE	SURFACE 2			
A		PLAIN	12" BLOCK	PLAIN	11 5/8"	-	ELECTRICAL CONDUIT SHALL BE EMBEDDED WITHIN WALL - COORDINATE WITH REINFORCEMENT REQUIREMENTS
B		PLAIN	8" BLOCK	PLAIN	7 5/8"	-	ELECTRICAL CONDUIT SHALL BE EMBEDDED WITHIN WALL - COORDINATE WITH REINFORCEMENT REQUIREMENTS
B.1		PLAIN	8" BLOCK	3/4" PLY WD. WOOD PANELING	3/4"	-	ELECTRICAL CONDUIT SHALL BE EMBEDDED WITHIN WALL - COORDINATE WITH REINFORCEMENT REQUIREMENTS

PLAN KEYNOTES:

- CONCRETE SLAB ON GRADE, SEE STRUCTURAL FOR REINFORCEMENT AND DETAILS/NOTES - SEAL ALL CONTROL AND CONSTRUCTION JOINTS
- 8x8 HS COLUMN, TYP. SEE STRUCTURAL FOR DETAILS, PAINT PER SCHEDULE
- POLISHED CONCRETE FLOORS, SEE FINISH SCHEDULE
- ALUMINUM WINDOW SYSTEM
- EXTERIOR HOLLOW METAL DOOR AND FRAME, PAINT PER SCHEDULE, SEE SCHEDULE FOR INFORMATION, PROVIDE STRUCTURAL STOOP AT ALL EXTERIOR DOORS
- INTERIOR HOLLOW METAL DOOR AND FRAME, RETURN WALL FINISH TO DOOR FRAME, SEE SCHEDULE FOR INFORMATION
- INTERIOR WOOD DOOR AND HOLLOW METAL FRAME, RETURN WALL FINISH TO DOOR FRAME, SEE SCHEDULE FOR INFORMATION
- PRE-FINISHED ALUMINUM WINDOW / ENTRY SYSTEM, SEE SCHEDULE FOR TYPE INFORMATION
- STRUCTURAL INSULATED ROOF PANELS
- ELECTRICAL EQUIPMENT - SEE ELECTRICAL
- 4" CONCRETE HOUSEKEEPING PAD - VERIFY LOCATION AND SIZE WITH MECHANICAL EQUIPMENT
- 4" CONCRETE SITE PAVING, TOOLED JOINTS, PROVIDE EXPANSION MATERIAL BETWEEN PAVING AND BUILDING - SEAL JOINTS
- CONCRETE APRON, SEE PLANS FOR WIDTH - SEE STRUCTURAL
- CONCRETE STOOP, SEE PLANS FOR WIDTH - SEE STRUCTURAL
- STAINLESS STEEL ADA GRAB BARS
- WALL MOUNTED TOILET - SEE MECHANICAL FOR DETAILS/NOTES
- WALL MOUNTED PAPER TOWEL HOLDER - BY OWNER
- WALL MOUNTED MIRROR
- WALL MOUNTED ADULT CHANGING TABLE
- BABY CHANGING TABLE
- DUAL HEIGHT WALL MOUNTED ADA DRINKING FOUNTAINS
- JANITOR MOP SINK, ADD FRP PANELS WHERE ADJACENT WALLS ARE NOT BLOCK - SEE MECHANICAL FOR NOTES/DETAILS
- WALL MOUNTED ALL-IN-ONE SINK - SEE MECHANICAL FOR DETAILS/NOTES
- MECHANICAL EQUIPMENT - SEE MECHANICAL FOR DETAILS/NOTES
- FLOOR DRAIN - SEE MECHANICAL FOR DETAILS/NOTES
- SOLID SURFACE COUNTER TOP
- WALL MOUNTED ADA DRINKING FOUNTAIN
- TRASH RECEPTACLE AREA
- KITCHEN PASS THROUGH WINDOW
- STAINLESS STEEL SINK
- SEALED CONCRETE FLOORS, SEE FINISH SCHEDULE
- BARN DOOR AND TRACK
- OBSERVATION DECK
- WOOD GRAIN COMPOSITE SIDING FIN
- REFRIGERATOR BY OWNER

GENERAL NOTES:
PLAN NOTES ARE TYPICAL FOR ALL BUILDING PLANS. SOME NOTES MAY NOT BE LOCATED ON ONE PLAN VIEW, BUT ARE STILL APPLICABLE WITHIN THE PROJECT





CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:

**ENLARGED
RESTROOM
PLAN**

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

PROJECT NUMBER DATE

MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

A153

FIRE RATED WALLS:

NO FIRE RATED WALLS REQUIRED ON THIS PROJECT

GENERAL NOTES:

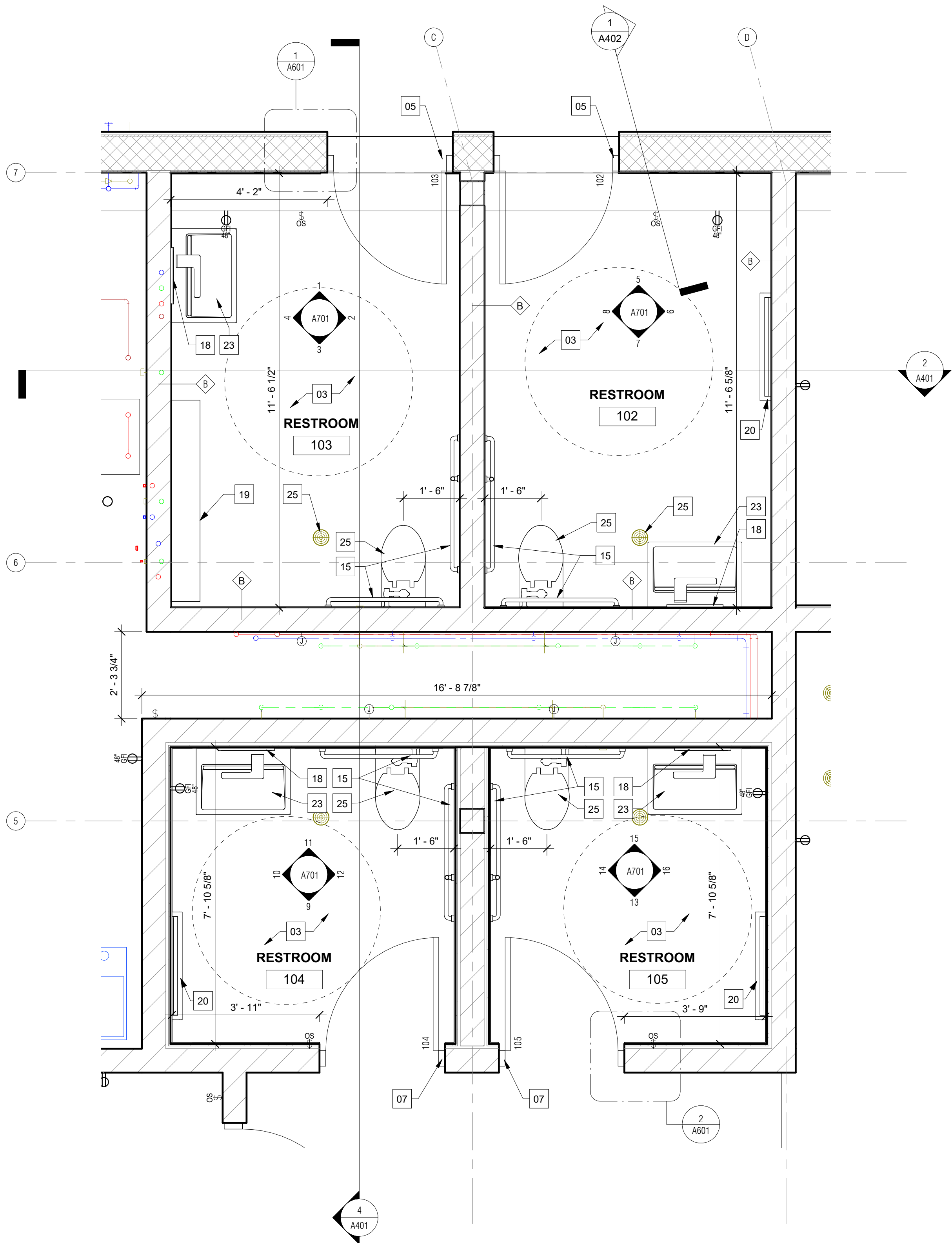
PLAN NOTES ARE TYPICAL FOR ALL BUILDING PLANS. SOME NOTES MAY NOT BE LOCATED ON ONE PLAN VIEW, BUT ARE STILL APPLICABLE WITHIN THE PROJECT

WALL SCHEDULE						
TYPE	GRAPHIC	CONSTRUCTION ASSEMBLY			TOTAL THICKNESS	FIRE RATING
		SURFACE 1	CORE	SURFACE 2		
A		PLAIN	12" BLOCK	PLAIN	11 5/8"	-
B		PLAIN	8" BLOCK	PLAIN	7 5/8"	-
B.1		PLAIN	8" BLOCK	3/4" PLY WD. WOOD PANELING	3/4"	-

PLAN KEYNOTES:

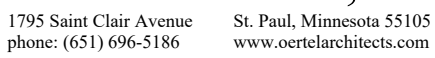
- 01 CONCRETE SLAB ON GRADE. SEE STRUCTURAL FOR REINFORCEMENT AND DETAILS/NOTES - SEAL ALL CONTROL AND CONSTRUCTION JOINTS
- 02 8x8 HS COLUMN, TYP. SEE STRUCTURAL FOR DETAILS, PAINT PER SCHEDULE
- 03 POLISHED CONCRETE FLOORS, SEE FINISH SCHEDULE
- 04 ALUMINUM WINDOW SYSTEM
- 05 EXTERIOR HOLLOW METAL DOOR AND FRAME, PAINT PER SCHEDULE. SEE SCHEDULE FOR INFORMATION, PROVIDE STRUCTURAL STOOP AT ALL EXTERIOR DOORS
- 06 INTERIOR HOLLOW METAL DOOR AND FRAME, RETURN WALL FINISH TO DOOR FRAME, SEE SCHEDULE FOR INFORMATION
- 07 INTERIOR WOOD DOOR AND HOLLOW METAL FRAME, RETURN WALL FINISH TO DOOR FRAME, SEE SCHEDULE FOR INFORMATION
- 08 PRE-FINISHED ALUMINUM WINDOW / ENTRY SYSTEM, SEE SCHEDULE FOR TYPE INFORMATION
- 09 STRUCTURAL INSULATED ROOF PANELS
- 10 ELECTRICAL EQUIPMENT - SEE ELECTRICAL
- 11 4" CONCRETE HOUSEKEEPING PAD - VERIFY LOCATION AND SIZE WITH MECHANICAL EQUIPMENT
- 12 4" CONCRETE SITE PAVING, TOOLED JOINTS, PROVIDE EXPANSION MATERIAL BETWEEN PAVING AND BUILDING - SEAL JOINTS
- 13 CONCRETE APRON, SEE PLANS FOR WIDTH - SEE STRUCTURAL
- 14 CONCRETE STOOP, SEE PLANS FOR WIDTH - SEE STRUCTURAL
- 15 STAINLESS STEEL ADA GRAB BARS
- 16 WALL MOUNTED TOILET - SEE MECHANICAL FOR DETAILS/NOTES
- 17 WALL MOUNTED PAPER TOWEL HOLDER - BY OWNER
- 18 WALL MOUNTED MIRROR
- 19 WALL MOUNTED ADULT CHANGING TABLE
- 20 BABY CHANGING TABLE
- 21 DUAL HEIGHT WALL MOUNTED ADA DRINKING FOUNTAINS
- 22 JANITOR MOP SINK, ADD FRP PANELS WHERE ADJACENT WALLS ARE NOT BLOCK - SEE MECHANICAL FOR NOTES/DETAILS
- 23 WALL MOUNTED ALL-IN-ONE SINK - SEE MECHANICAL FOR DETAILS/NOTES
- 24 MECHANICAL EQUIPMENT - SEE MECHANICAL FOR DETAILS/NOTES
- 25 FLOOR DRAIN - SEE MECHANICAL FOR DETAILS/NOTES
- 26 SOLID SURFACE COUNTER TOP
- 27 WALL MOUNTED ADA DRINKING FOUNTAIN
- 28 TRASH RECEPTACLE AREA
- 29 KITCHEN PASS THROUGH WINDOW
- 30 STAINLESS STEEL SINK
- 31 SEALED CONCRETE FLOORS, SEE FINISH SCHEDULE
- 32 BARN DOOR AND TRACK
- 33 OBSERVATION DECK
- 34 WOOD GRAIN COMPOSITE SIDING FIN
- 35 REFRIGERATOR BY OWNER

GENERAL NOTES:
PLAN NOTES ARE TYPICAL FOR ALL BUILDING PLANS. SOME NOTES MAY NOT BE LOCATED ON ONE PLAN VIEW, BUT ARE STILL APPLICABLE WITHIN THE PROJECT

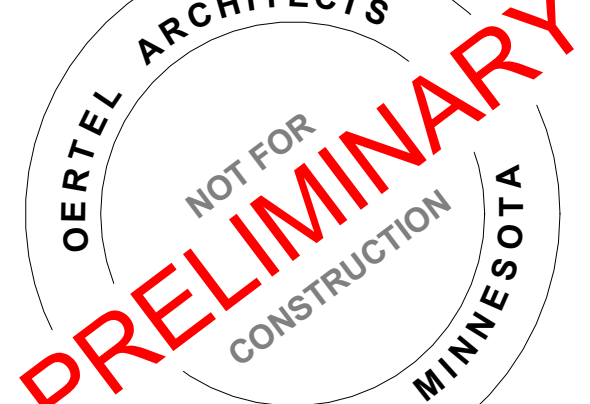


1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"





NOTES:
90% CONSTRUCTION DOCUMENTS



5872 NE CENTRAL AVE, FRIDLEY
MN

SIGNATURE: ANDREW N. COOPER

46485

LICENSE #

02/03/2023

DATE

NAME: _____

ENLARGED
PLAN -
OUTDOOR
GATHERING

[illegible]

22-25 02/03/2023

PROJECT NUMBER	DATE
----------------	------

<u>MMP</u>	<u>ANC</u>
DRAWN BY	CHECKED BY

SHEET NO:

A154



NORTH

PLOTTED: 03/23/2023 4:44:44 PM PROJECT NAME: Moore Lake Park Community Building

Not for Construction



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:

REFLECTED CEILING PLAN

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

PROJECT NUMBER DATE

MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

A201



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE., FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023

LICENSE # DATE

SHEET NAME:

BUILDING ELEVATIONS

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

PROJECT NUMBER DATE

MMP ANC

DRAWN BY CHECKED BY

SHEET NO:

A301

BUILDING ELEVATION KEYNOTES:

GENERAL NOTES:
FOR WINDOW AND GLAZING TYPES SEE A801

- 01 WOOD GRAIN COMPOSITE CLADDING

02 8x8 HS COLUMN, SEE STRUCTURAL FOR DETAILS

03 PREFINISHED SHEET METAL

04 SIP ROOF ASSEMBLY

05 PREFINISHED SHEET METAL FASCIA ON SIP PANEL

06 CMU - BURNISHED

07 PREFINISHED ALUMINUM WINDOW SYSTEM

08 WOOD GRAIN COMPOSITE FIN

09 ROOF TROUGH AND SCUPPER
- 10 EXTERIOR H.M. DOOR AND FRAME, PAINT - SEE DOOR SCHEUDLE FOR MORE INFO.

11 CONDENSING UNIT - SEE MECH.

12 EQUIPMENT ENCLOSURE

13 CONCRETE PATIO

14 SOFFIT - WOOD GRAIN COMPOSITE CLADDING

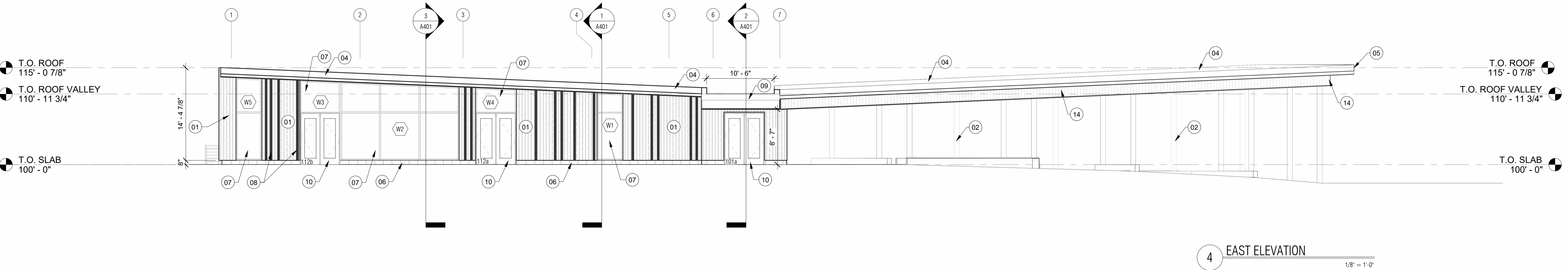
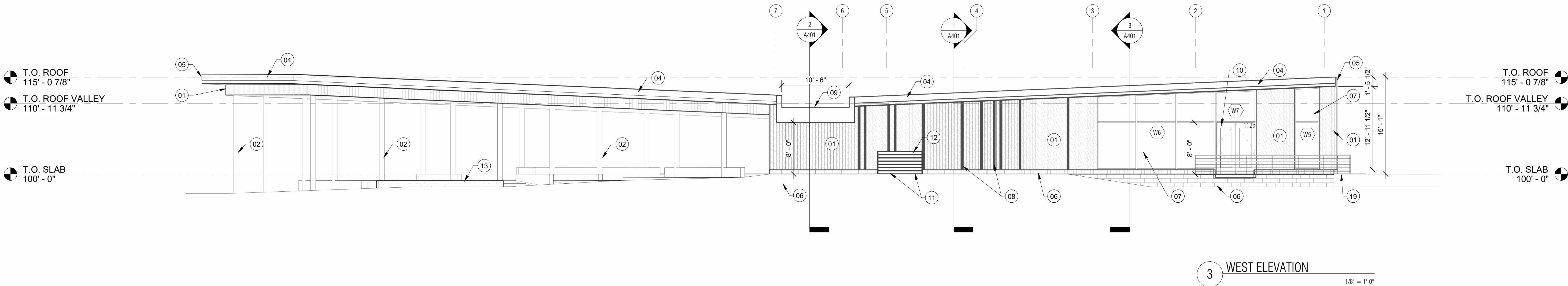
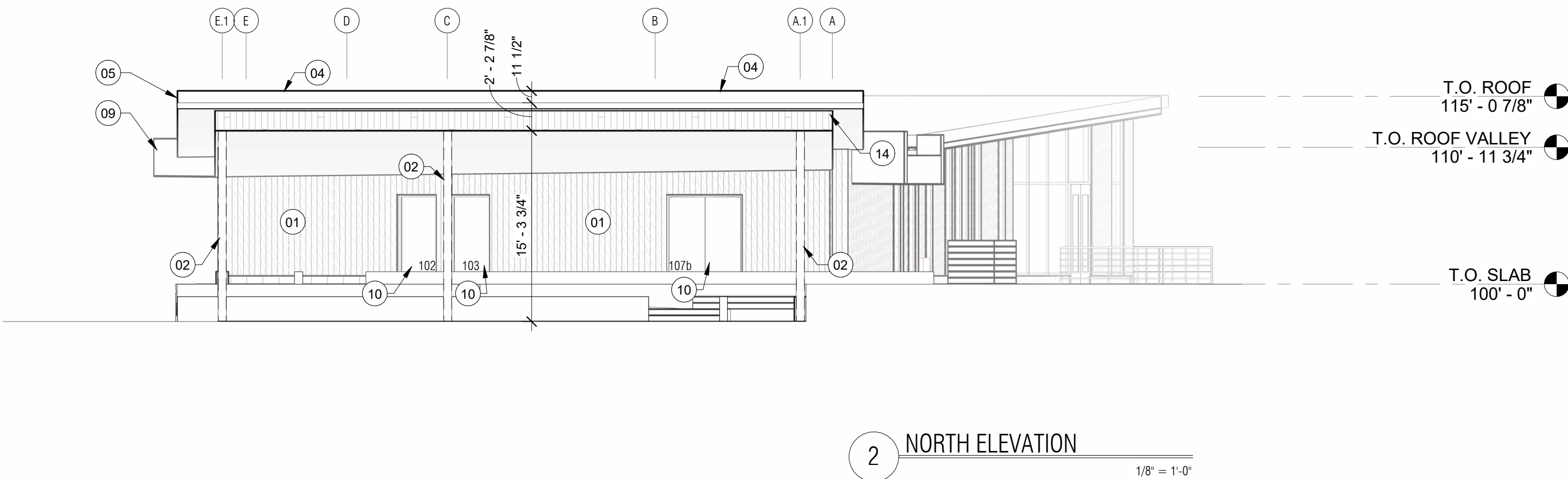
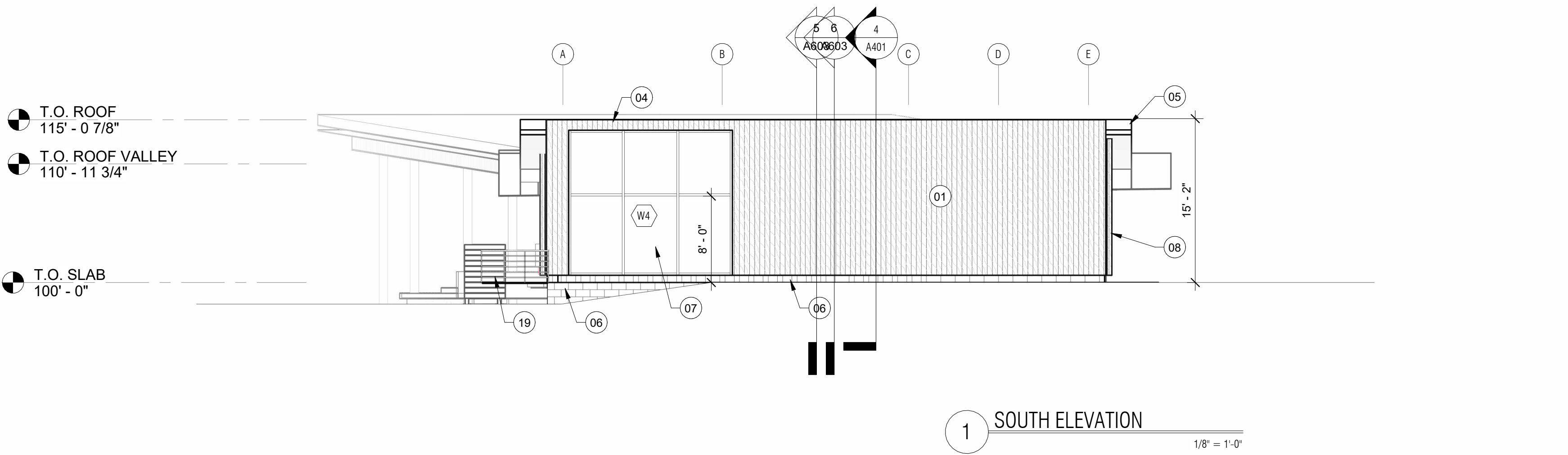
15 NOT USED

16 NOT USED

17 ROOF TOP UNIT - SEE MECH.

18 LED WALL PACK LIGHTING - SEE ELECTRICAL

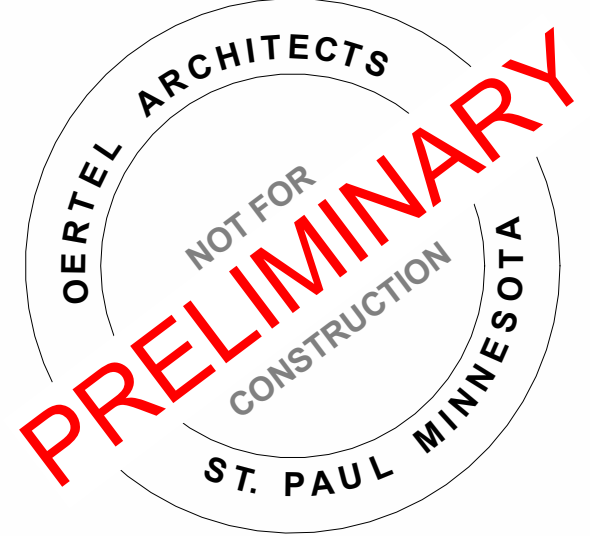
19 COMPOSITE WOOD GRAIN DECK WITH RAILING





CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023

LICENSE # DATE

SHEET NAME:

BUILDING SECTIONS

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

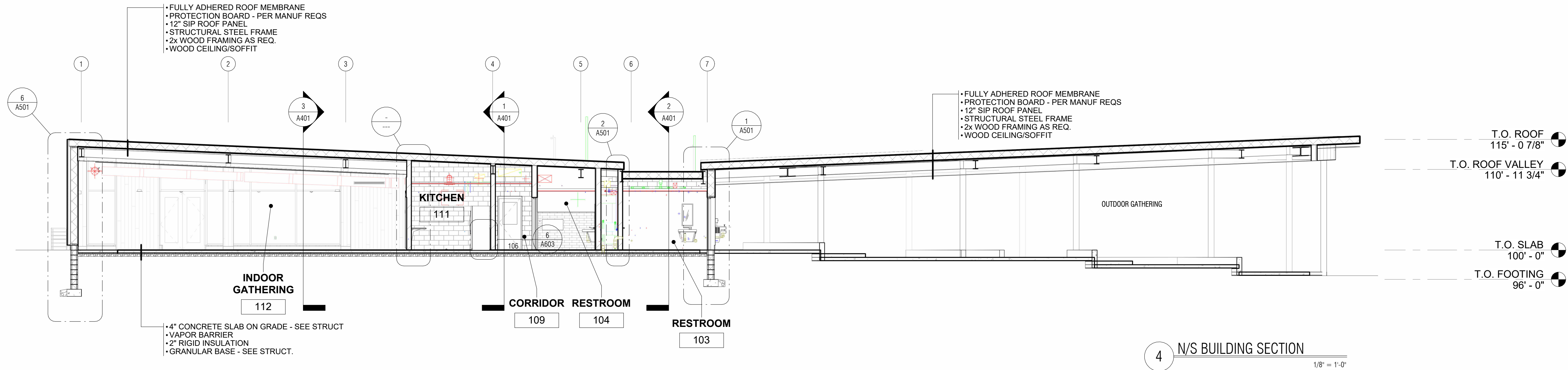
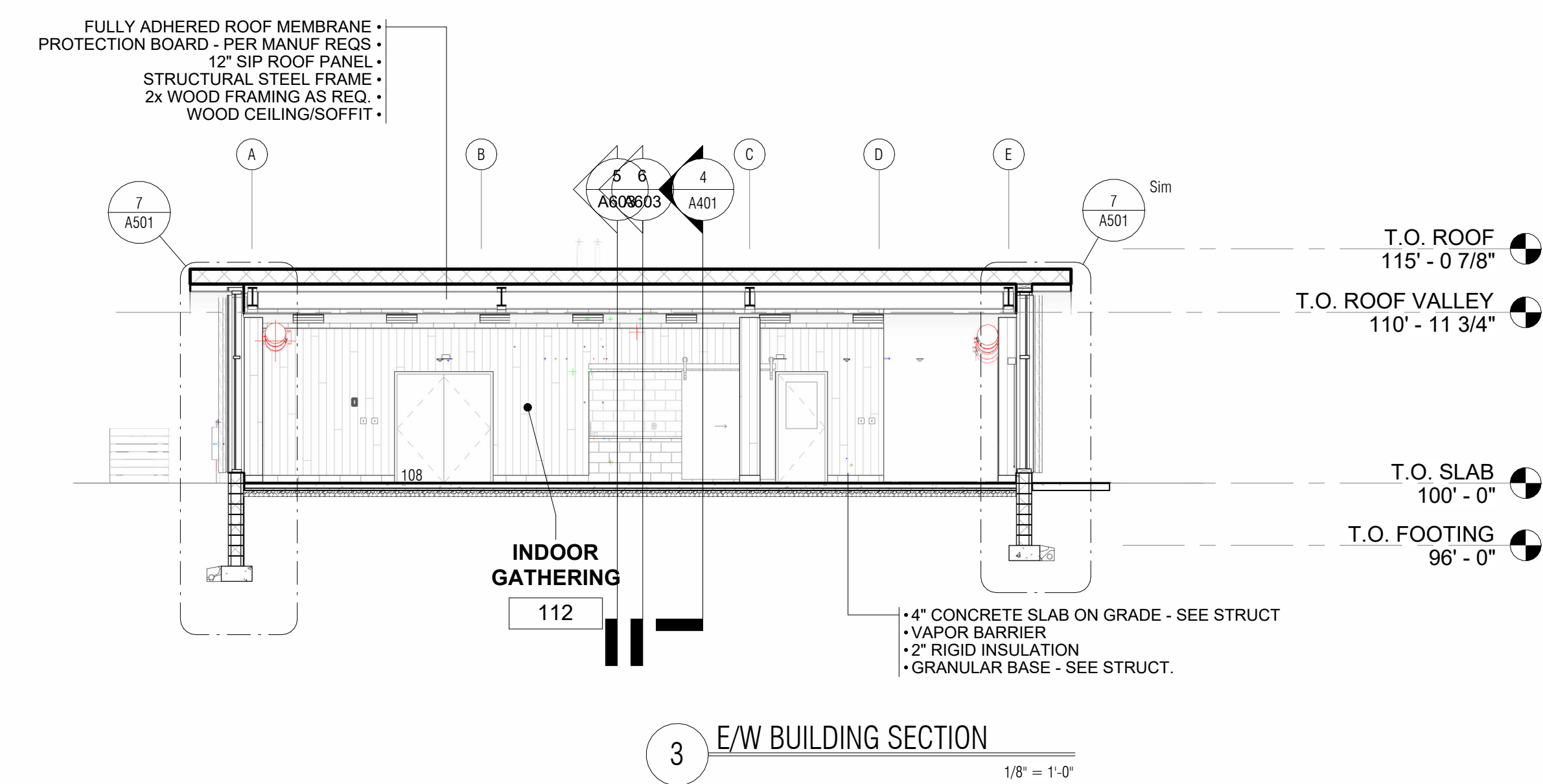
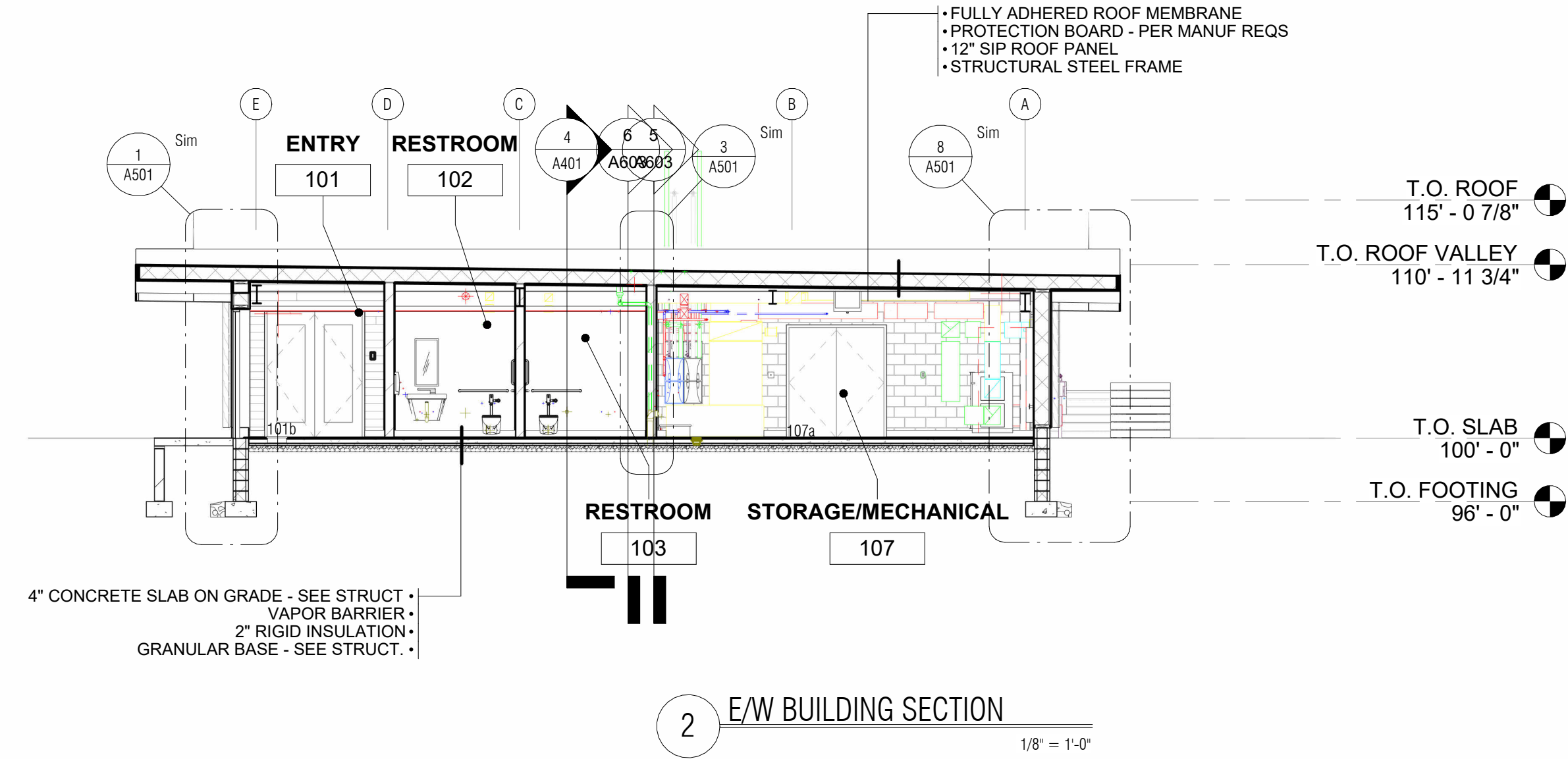
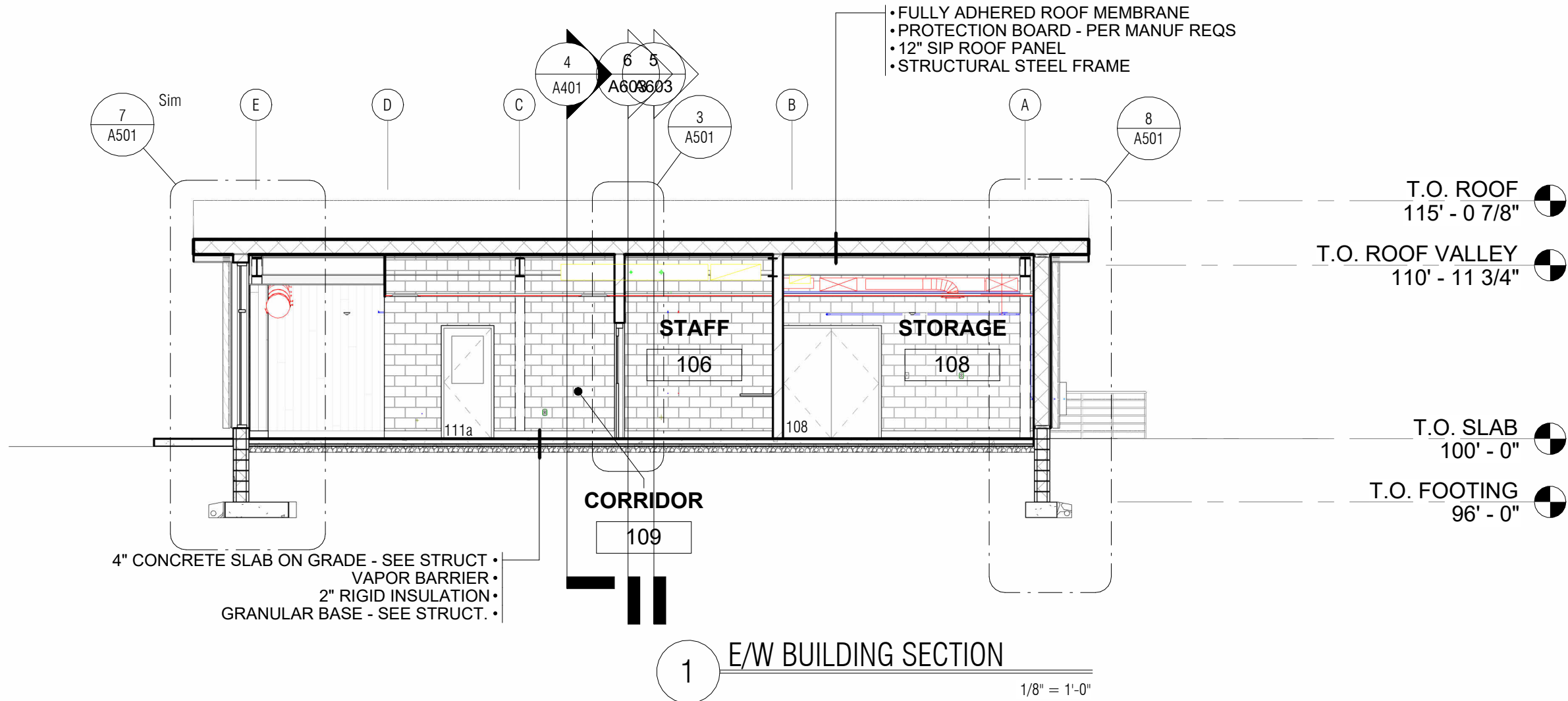
PROJECT NUMBER DATE

MMP ANC

DRAWN BY CHECKED BY

SHEET NO:

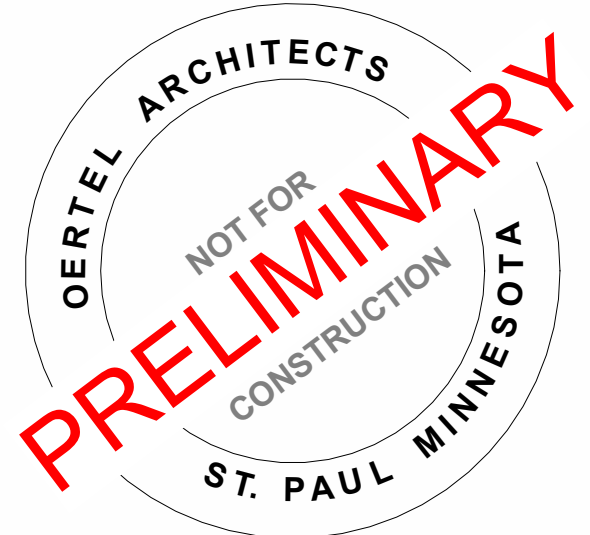
A401





CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building
5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:
BUILDING SECTIONS - OUTDOOR GATHERING

REVISIONS:		
No.	Date	Description

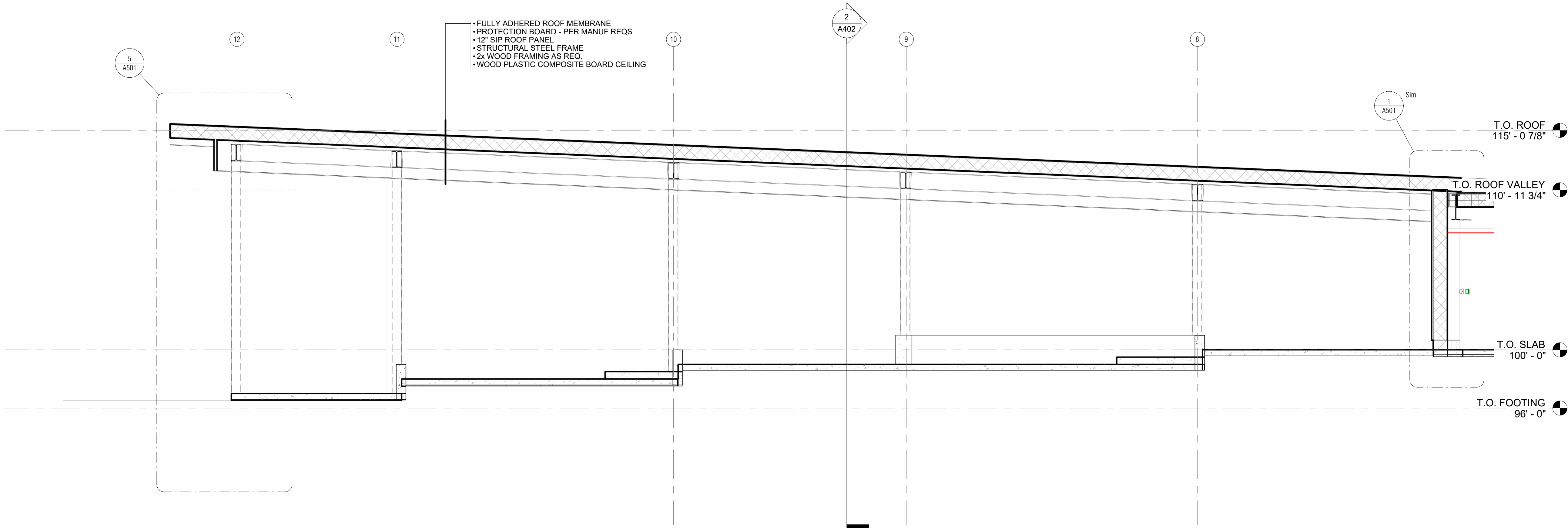
22-25 02/03/2023

PROJECT NUMBER DATE

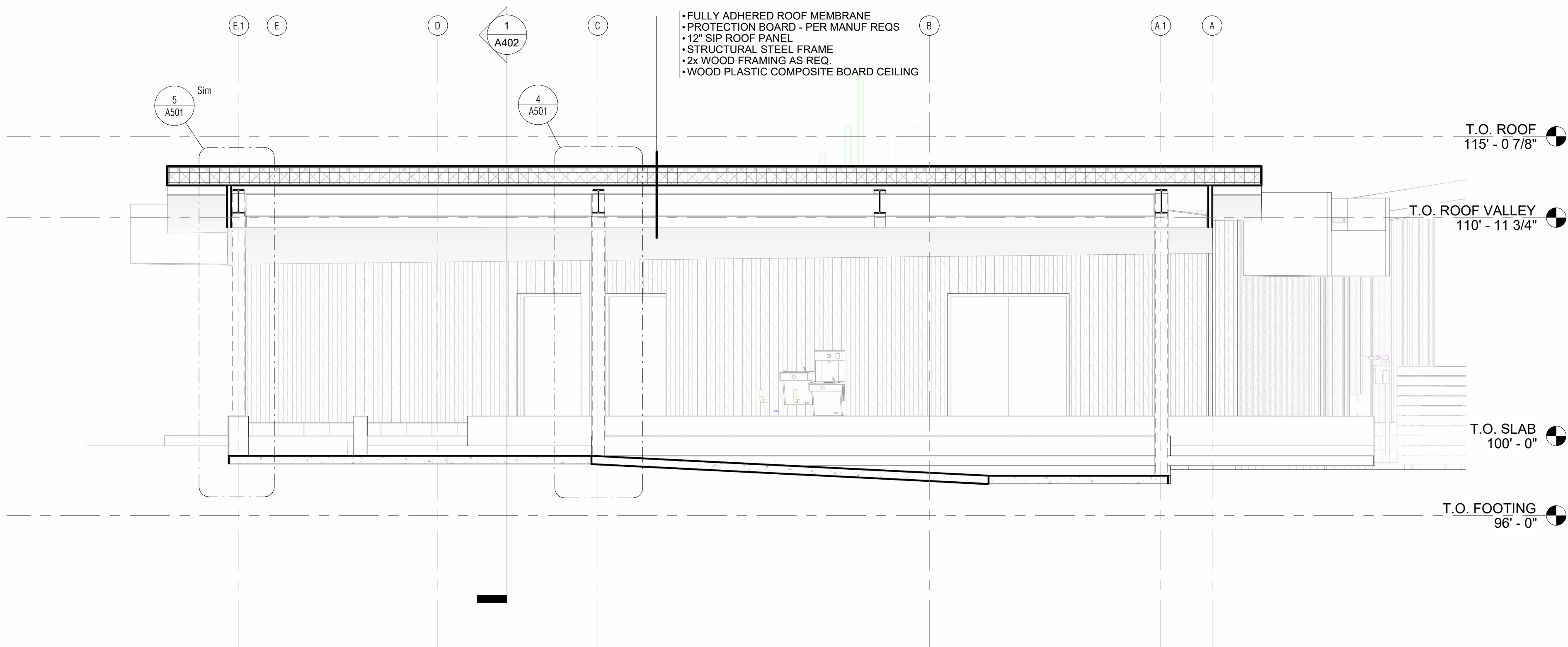
MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

A402



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



2 OUTDOOR GATHERING
SECTION
1/4" = 1'-0"



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: **ANDREW N. COOPER**

46485 02/03/2023
LICENSE # DATE

SHEET NAME:

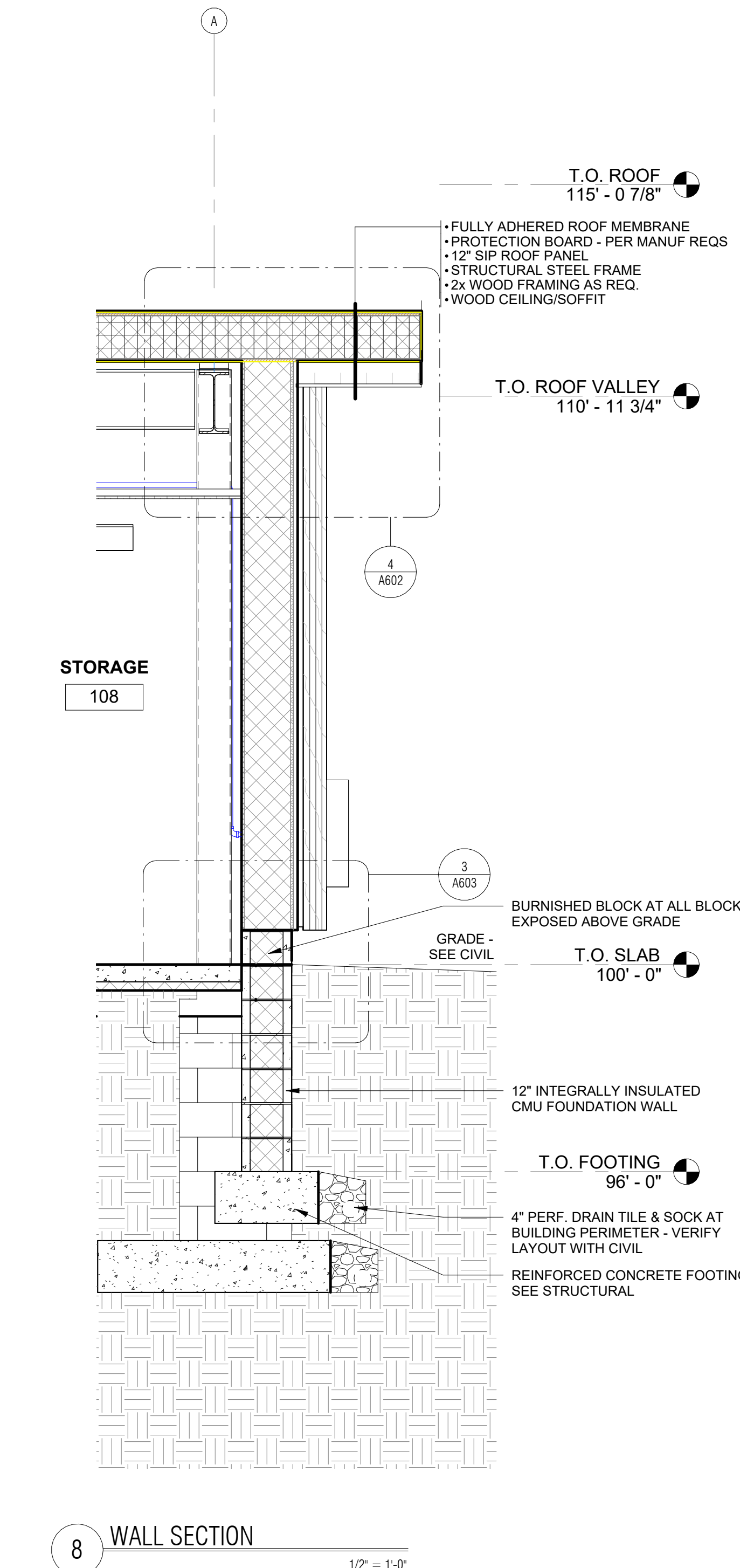
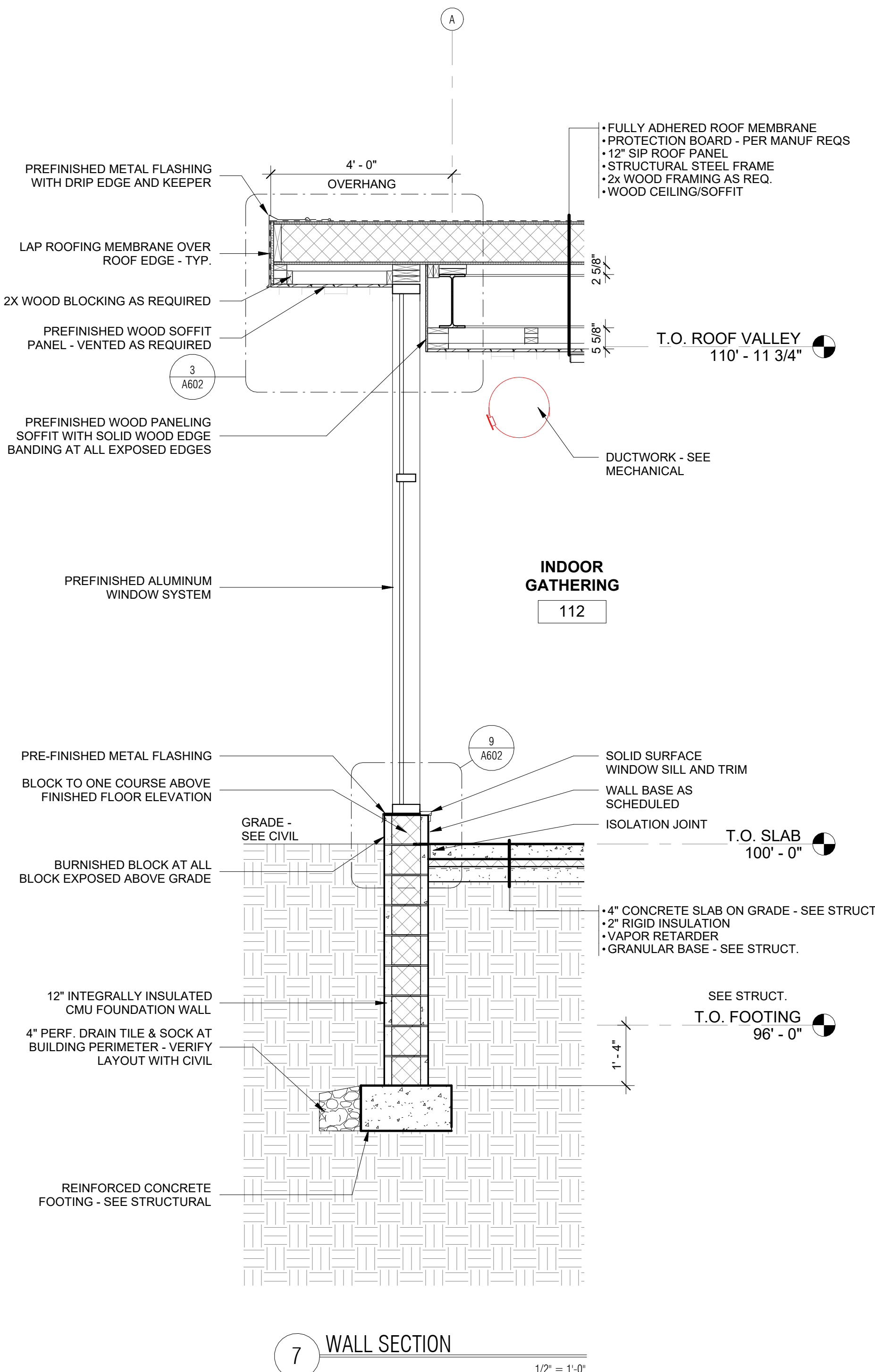
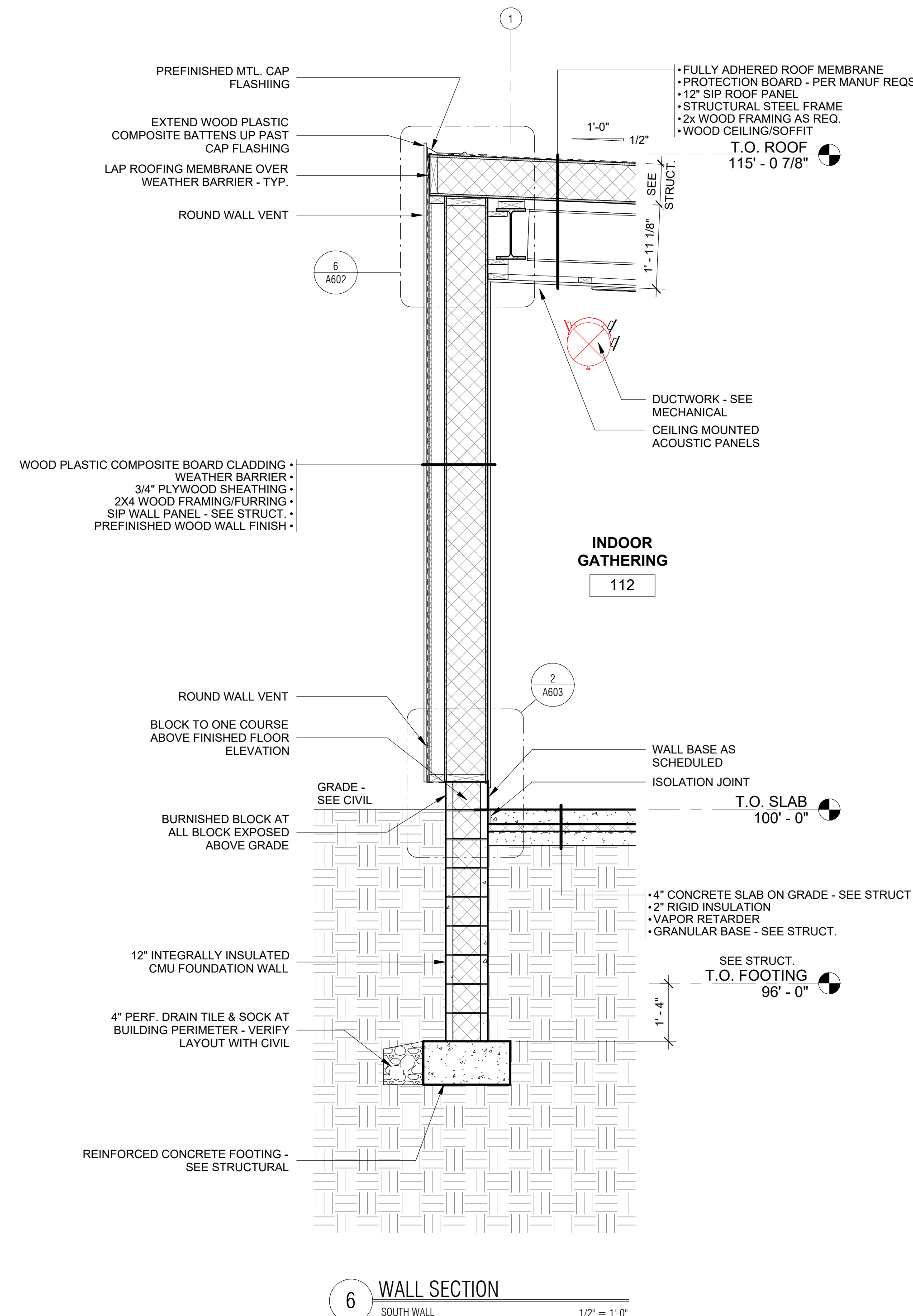
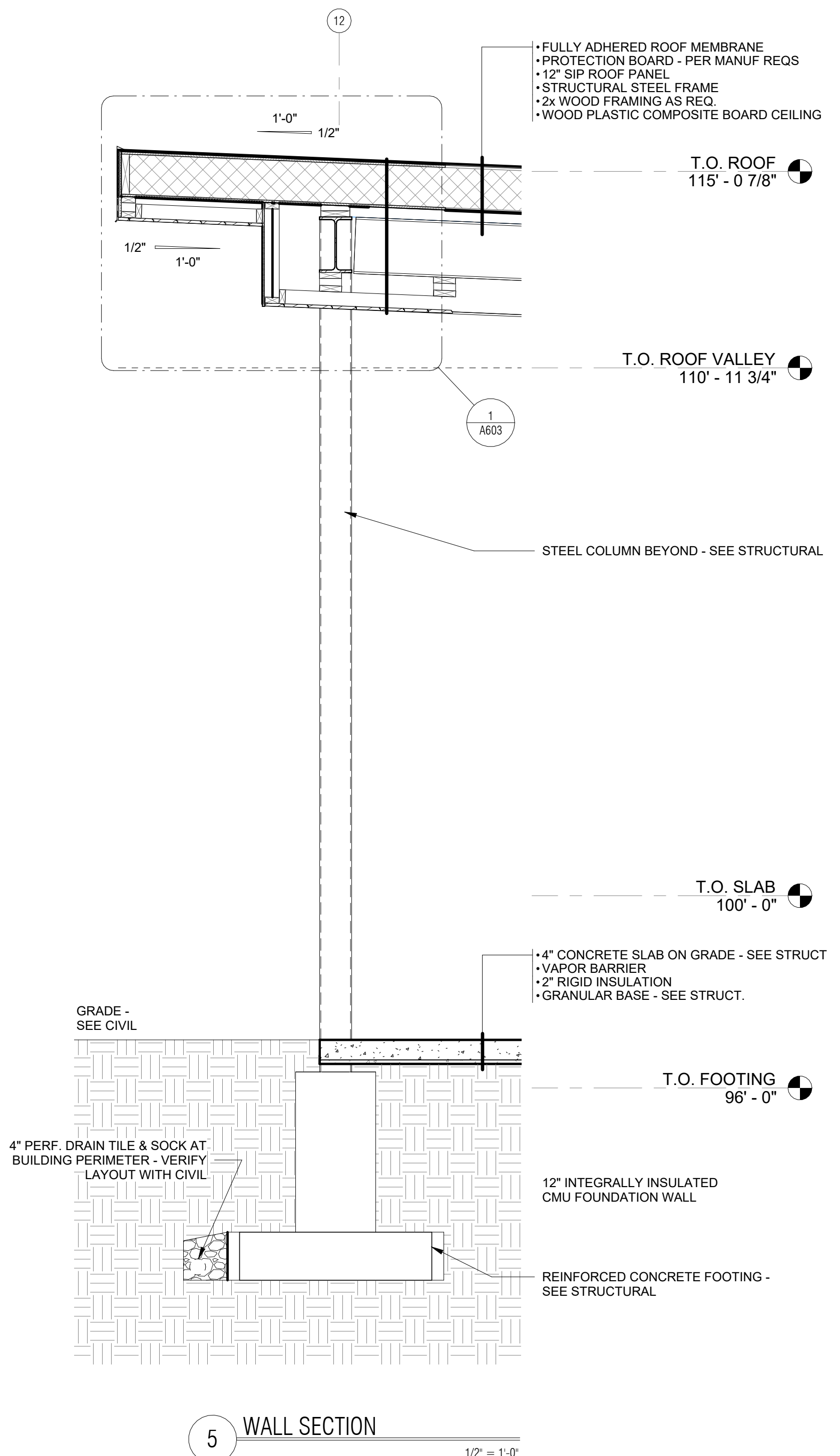
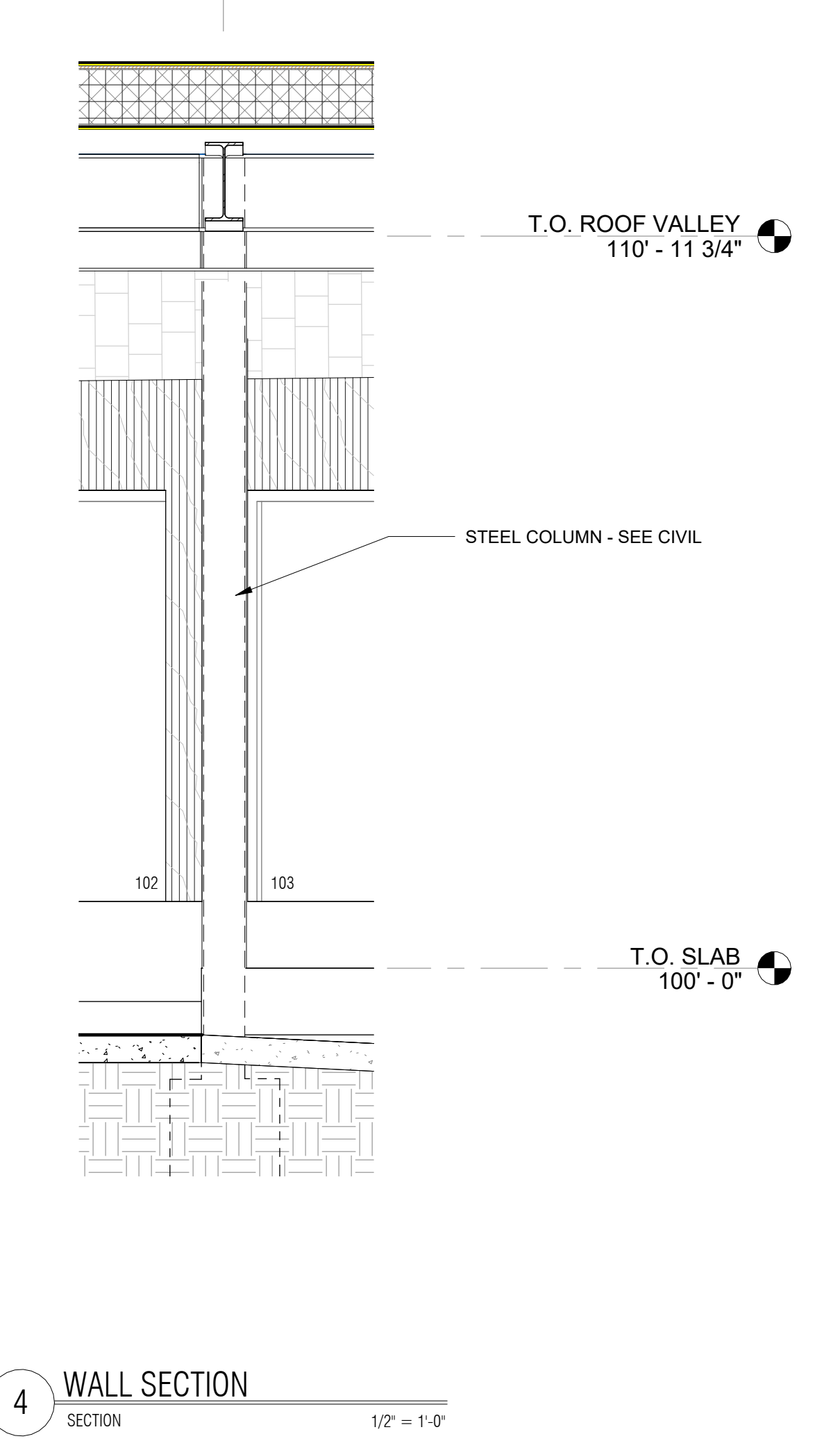
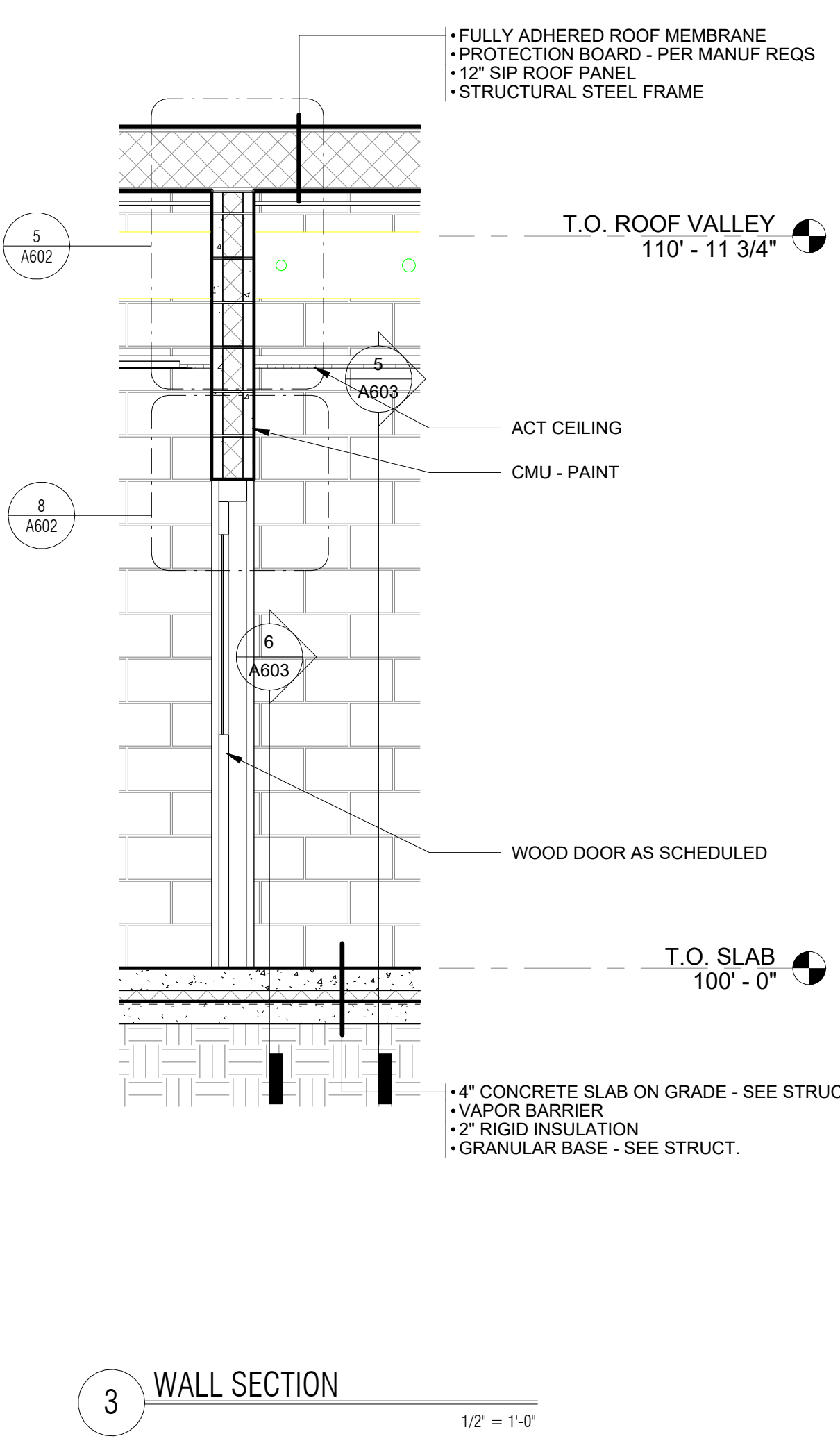
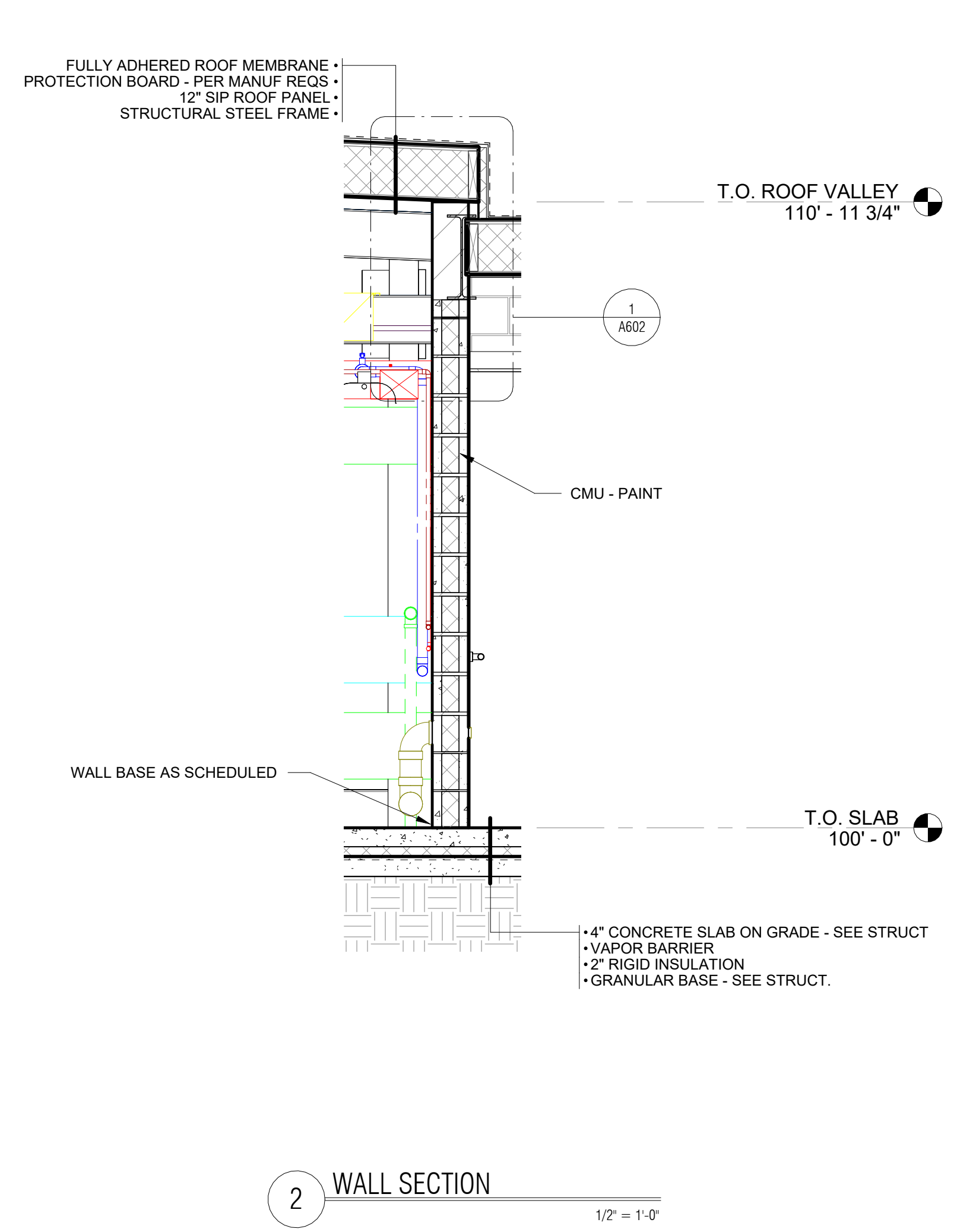
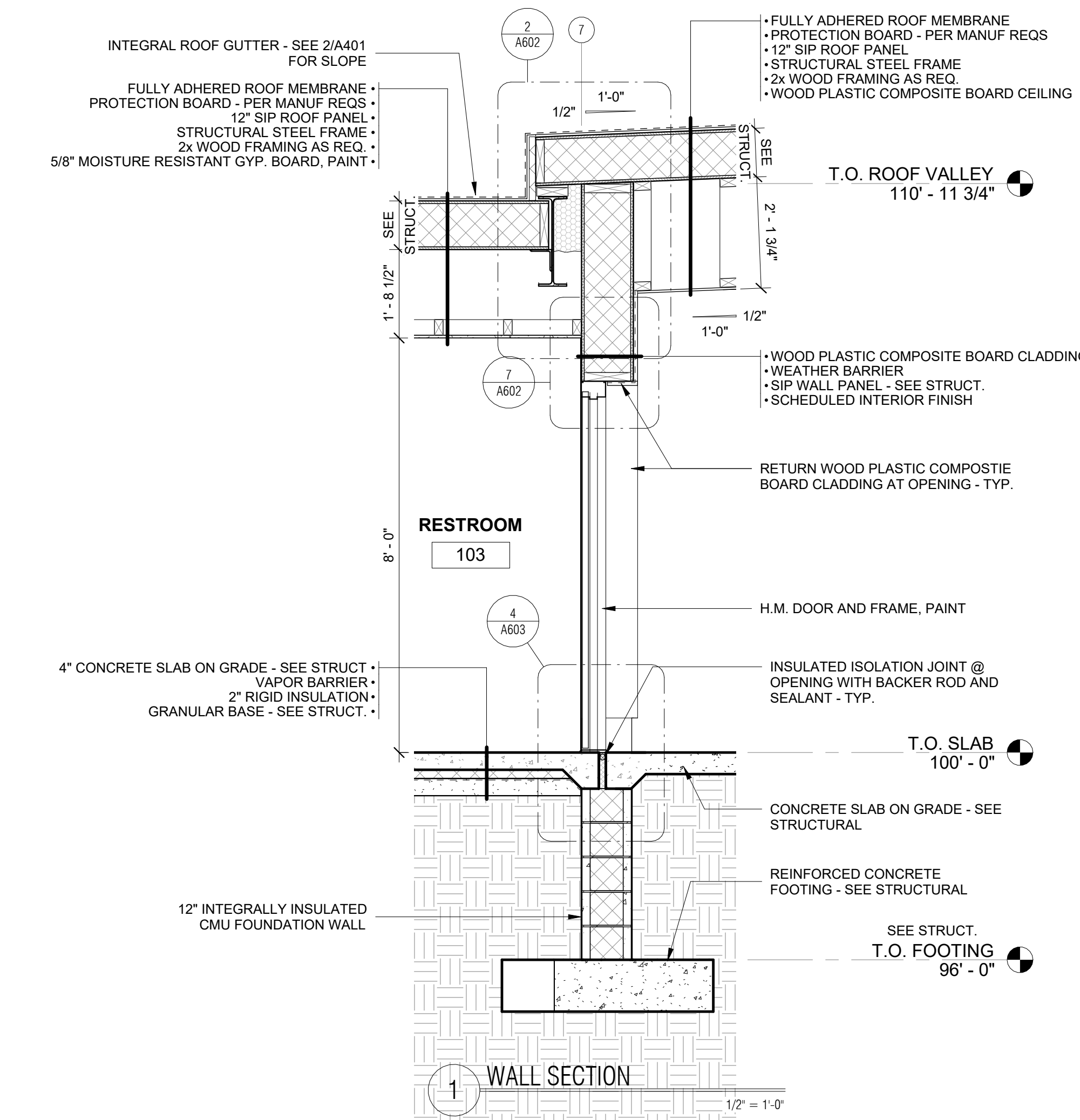
WALL SECTIONS

REVISIONS:		
No.	Date	Description

22-25 02/03/2023
PROJECT NUMBER DATE
MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

A501





CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: **ANDREW N. COOPER**
46485 02/03/2023
LICENSE # DATE
SHEET NAME:

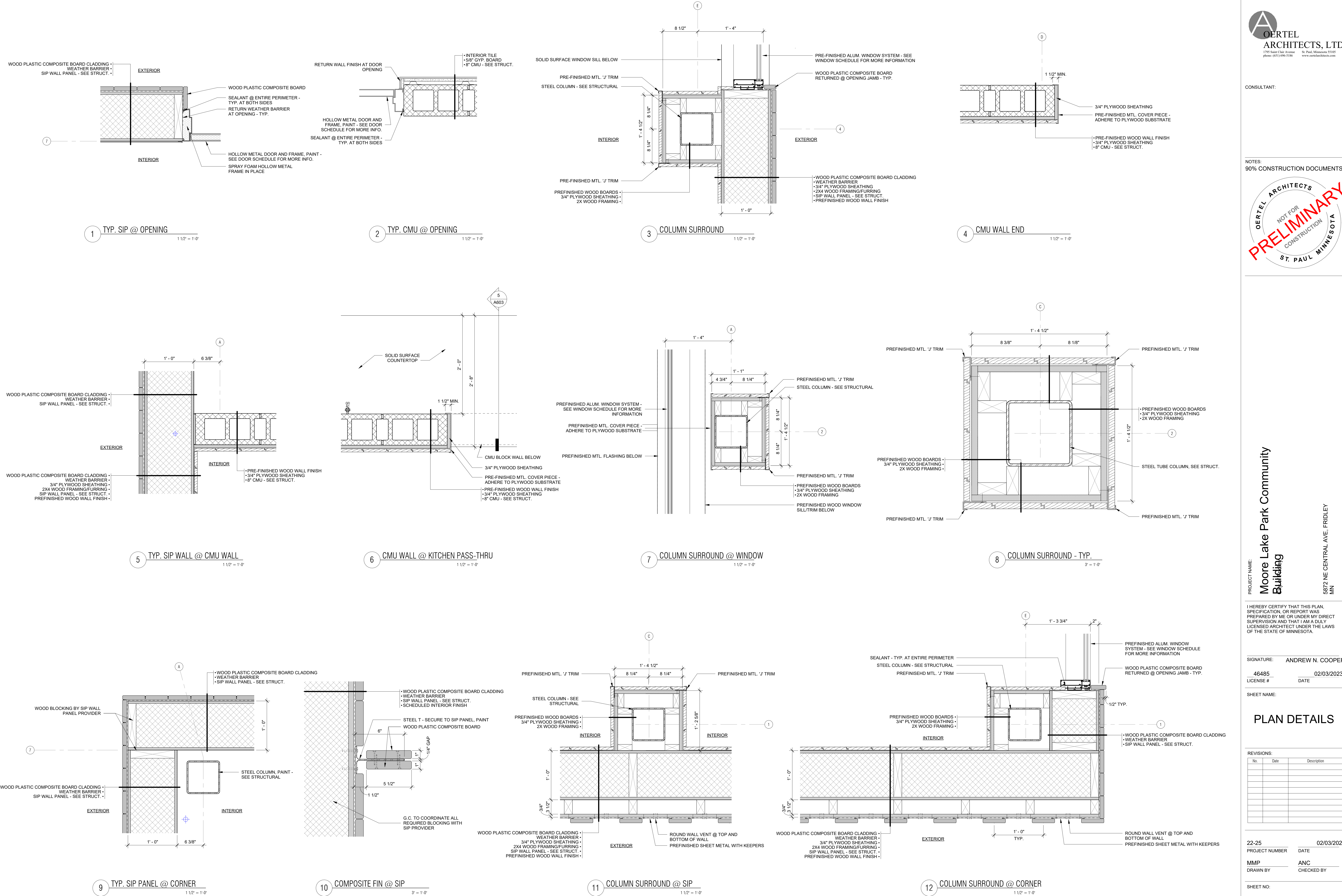
PLAN DETAILS

REVISIONS:		
No.	Date	Description

22-25 02/03/2023
PROJECT NUMBER DATE
MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

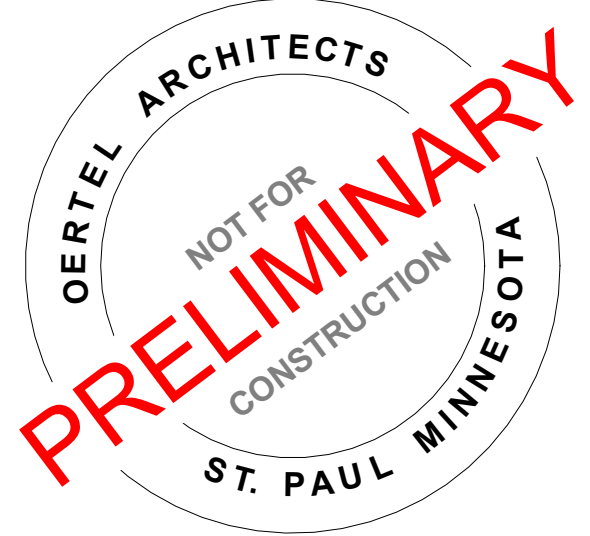
A601





CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023

LICENSE # DATE

SHEET NAME:

SECTION DETAILS

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

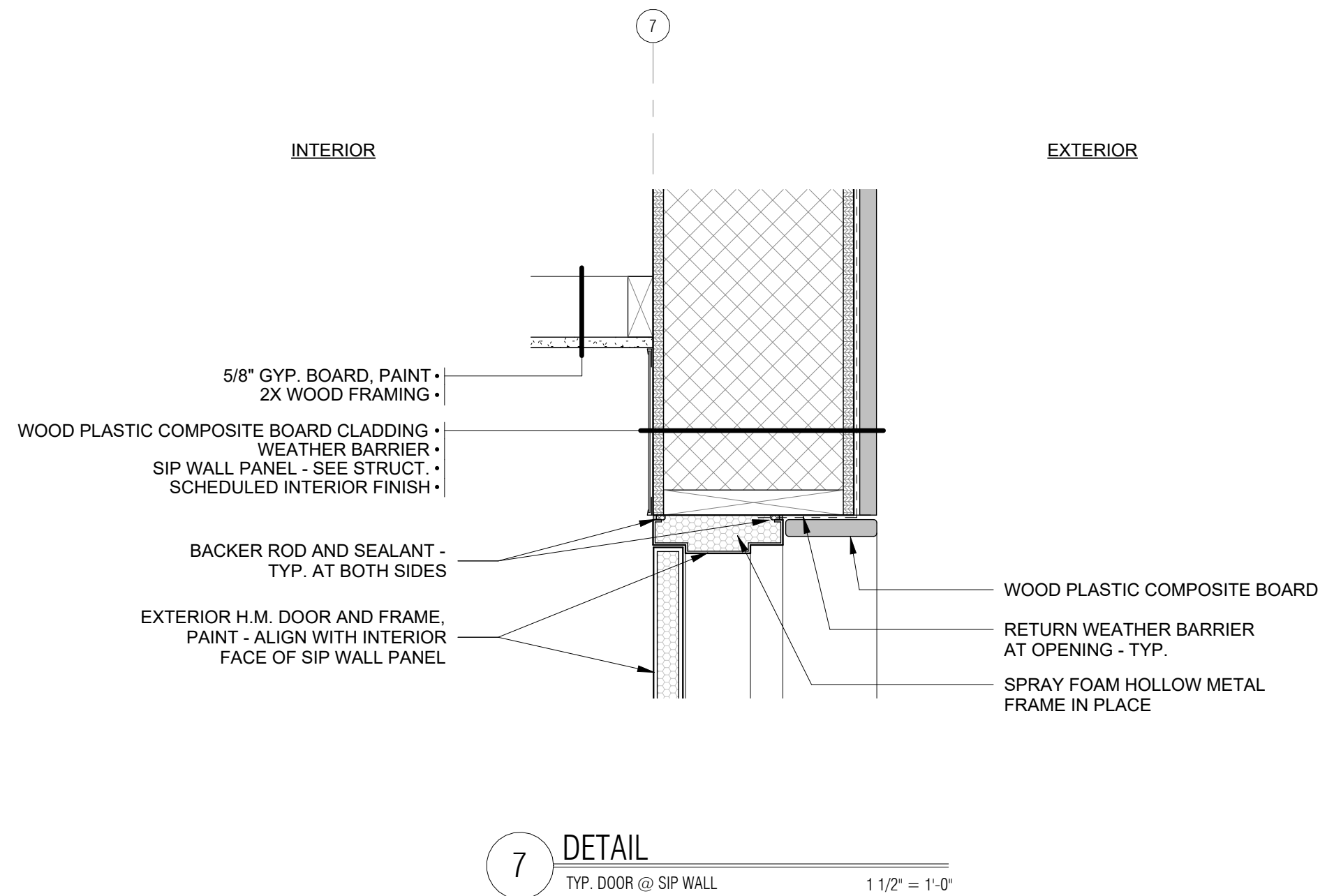
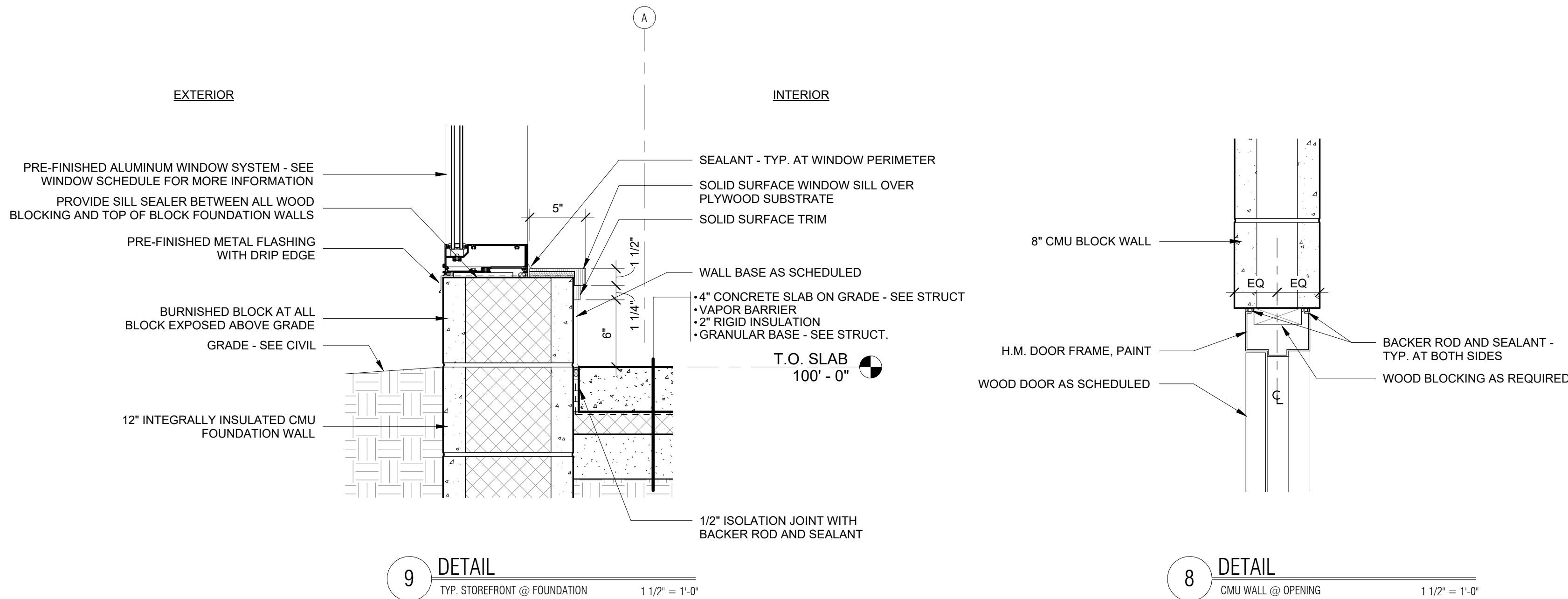
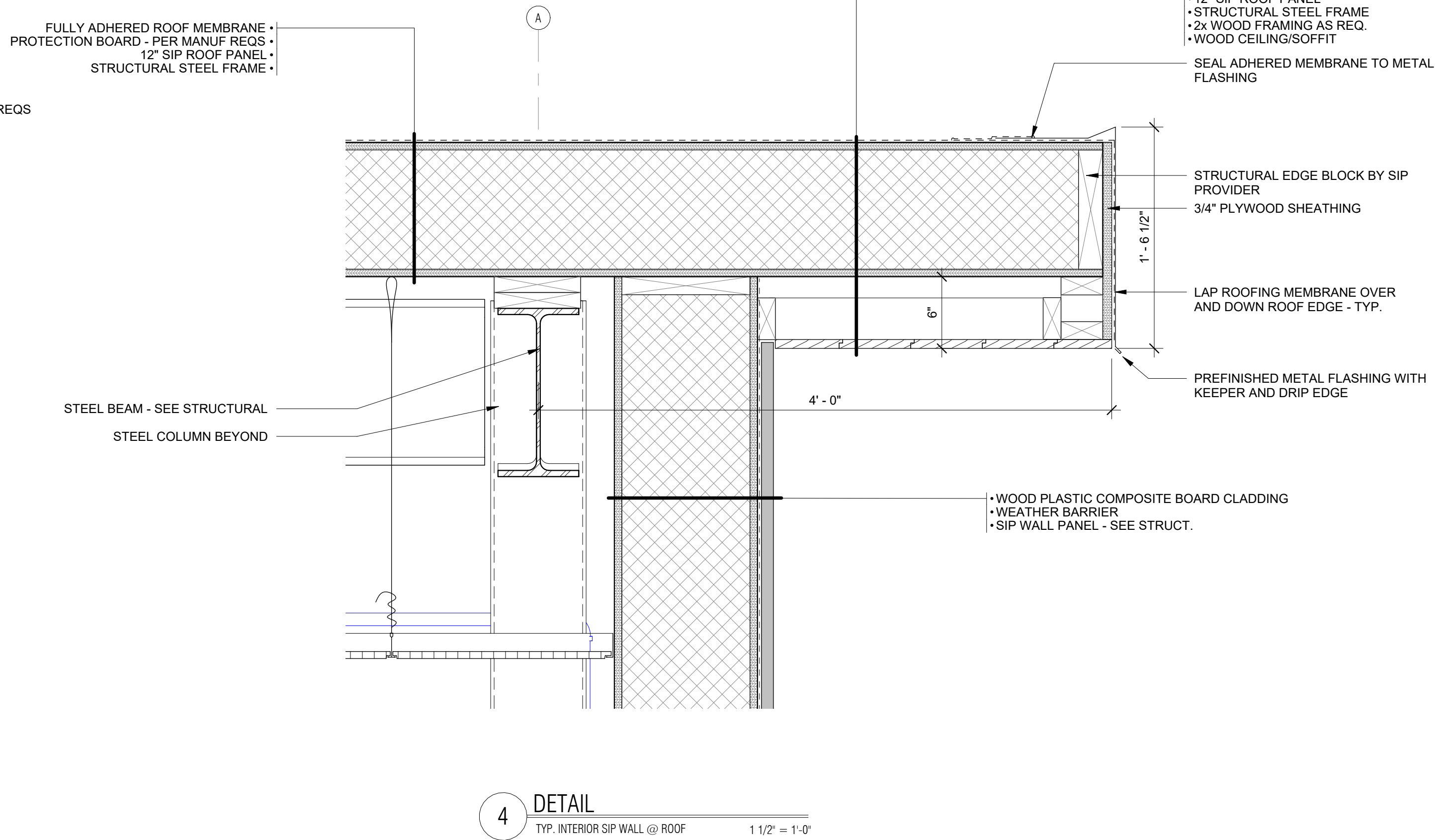
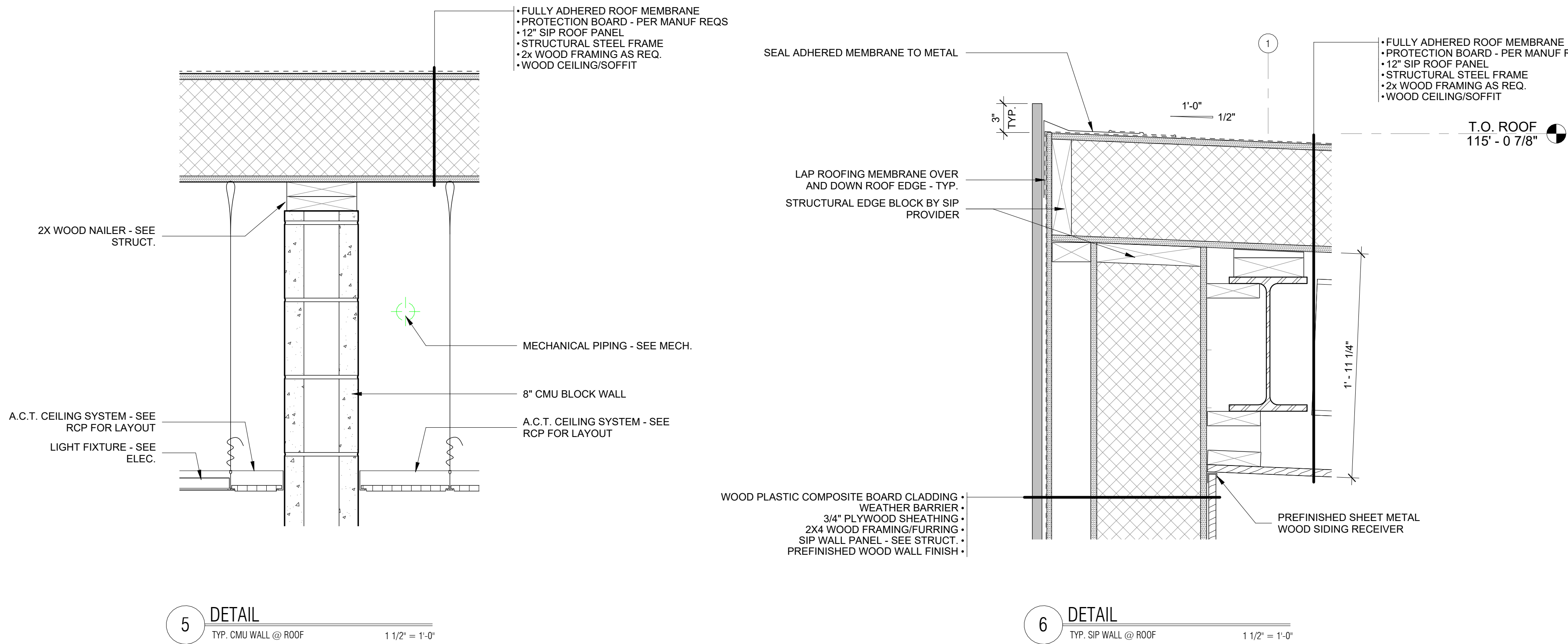
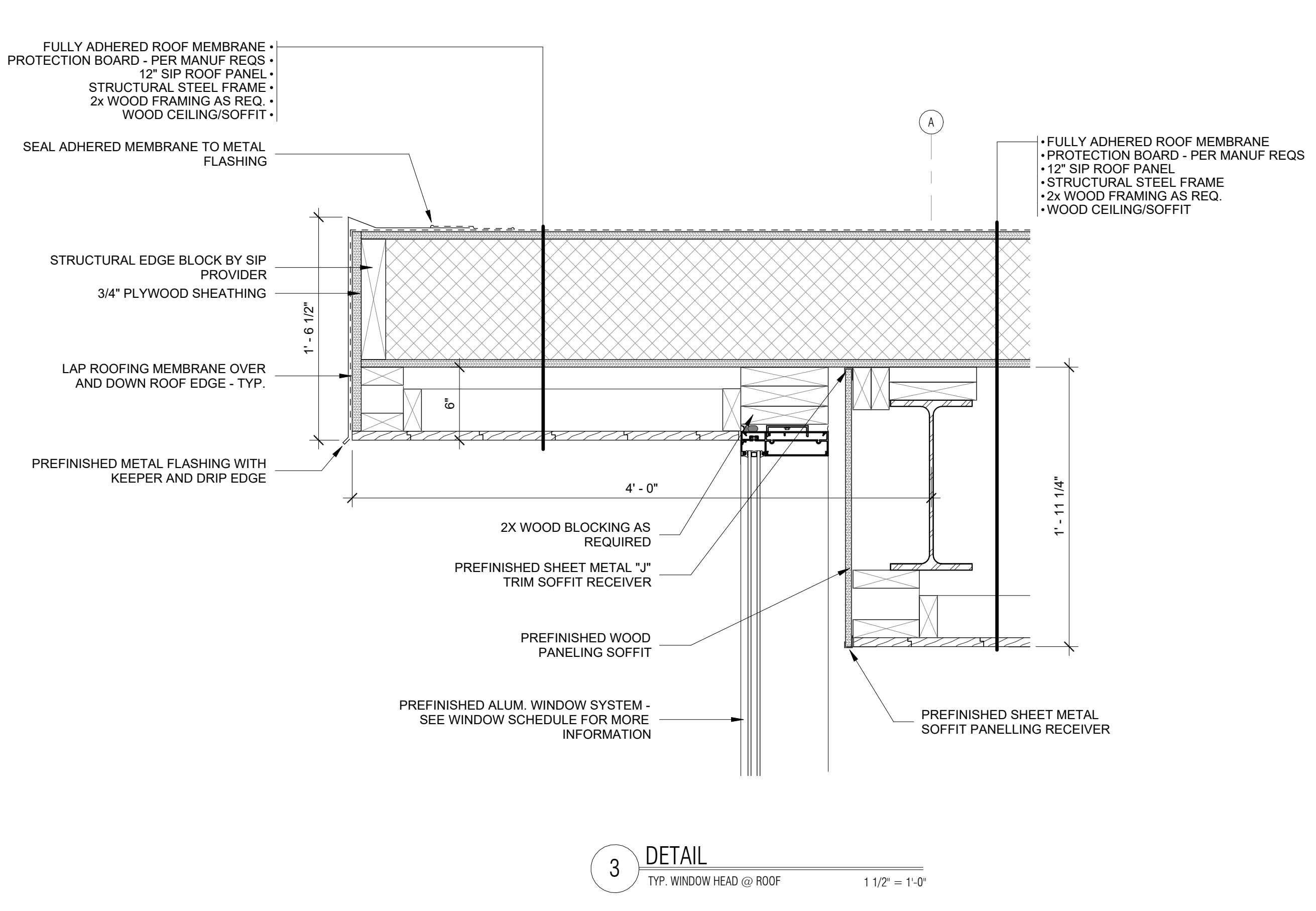
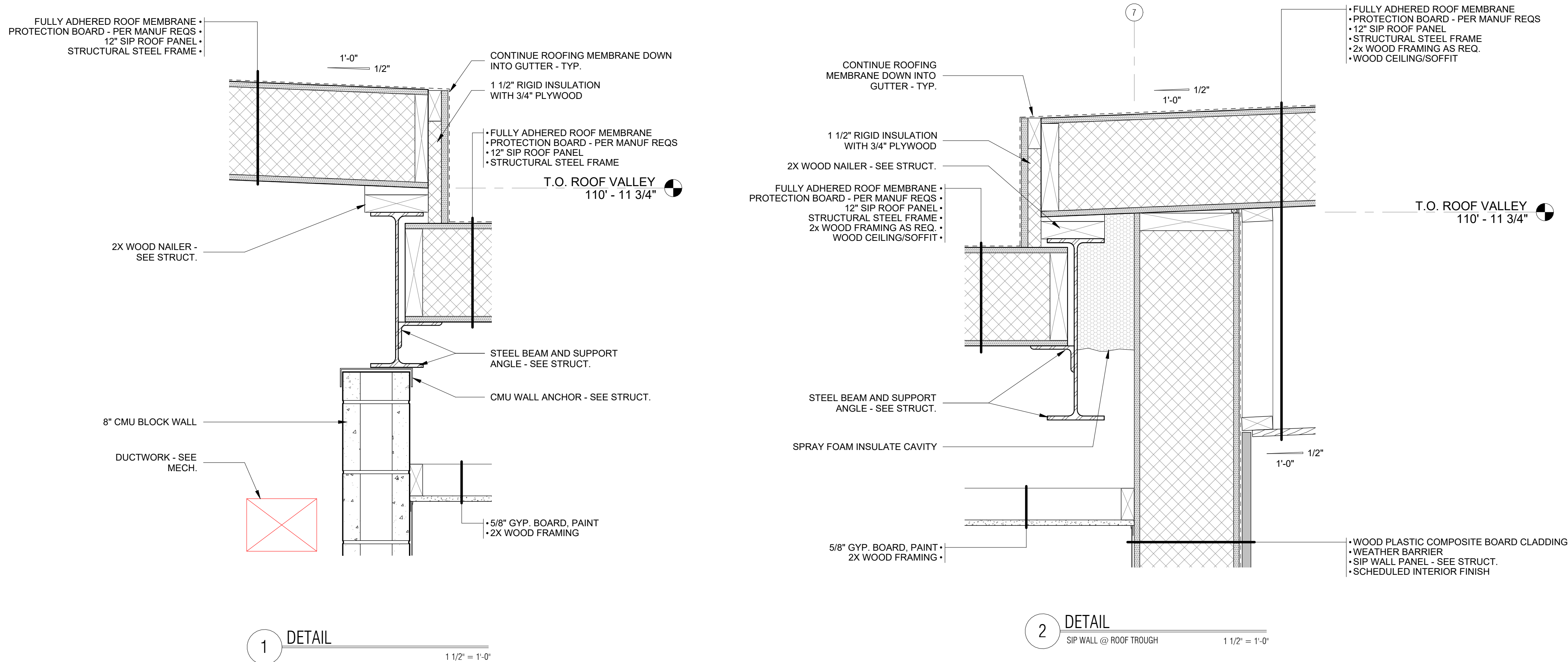
PROJECT NUMBER DATE

MMP ANC

DRAWN BY CHECKED BY

SHEET NO:

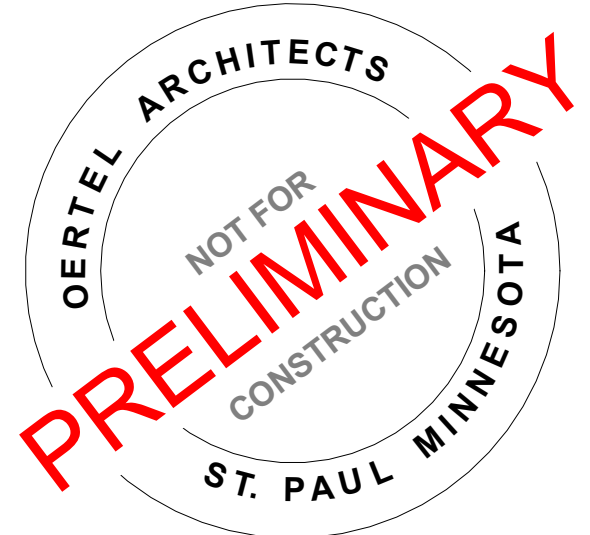
A602





CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023

LICENSE # DATE

SHEET NAME:

SECTION
DETAILS

REVISIONS:		
No.	Date	Description

22-25 02/03/2023

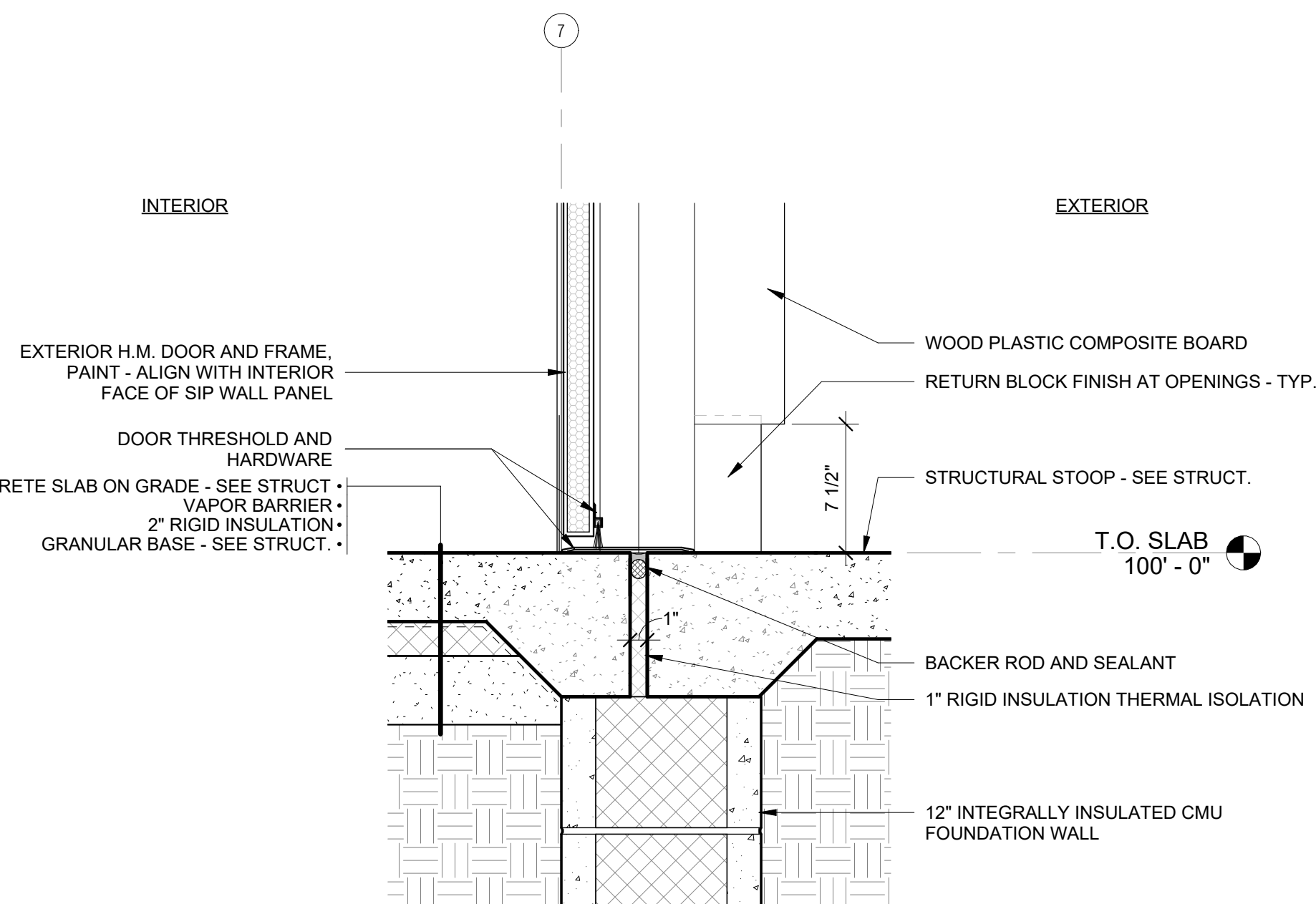
PROJECT NUMBER DATE

MMP ANC

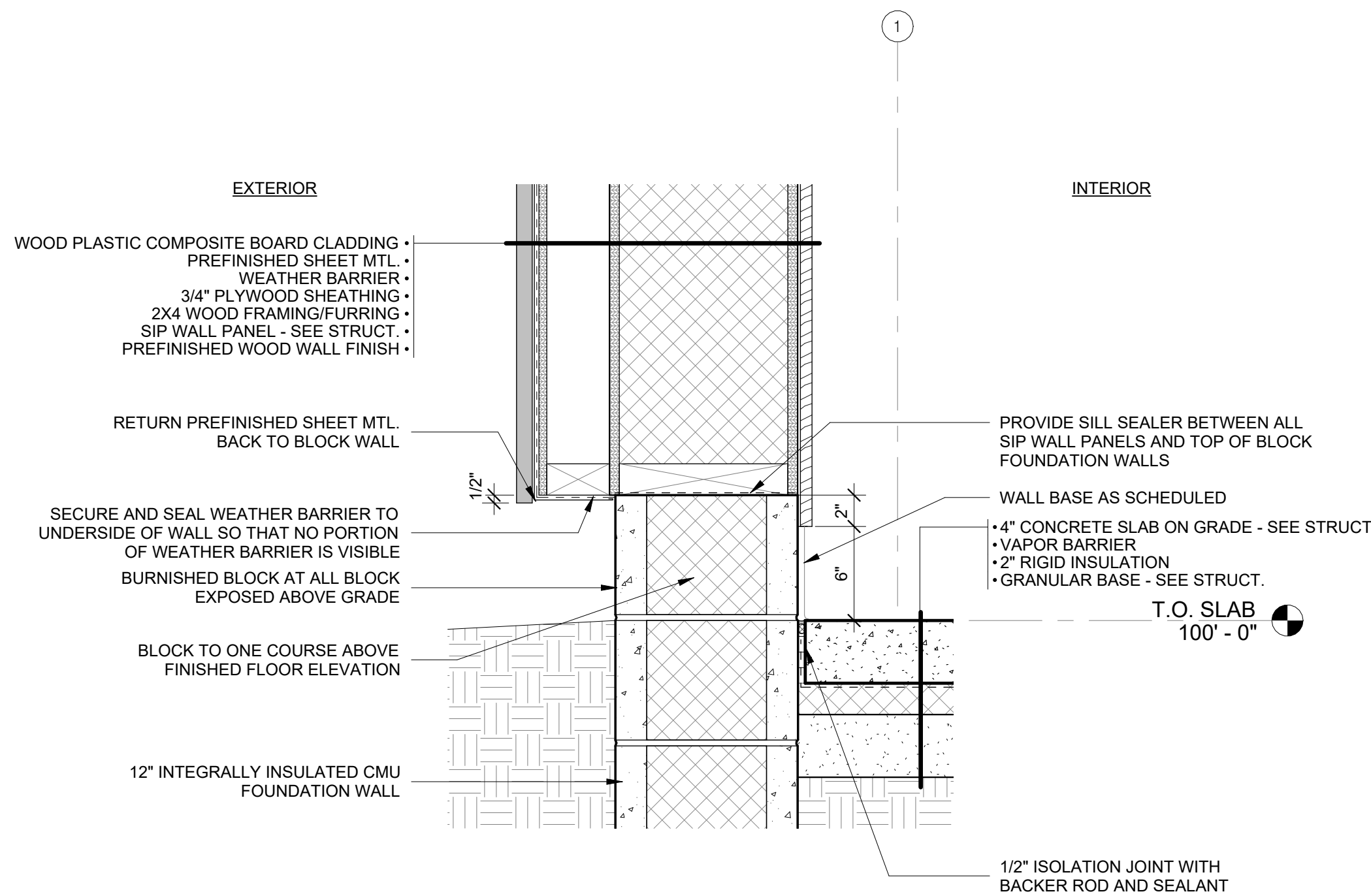
DRAWN BY CHECKED BY

SHEET NO:

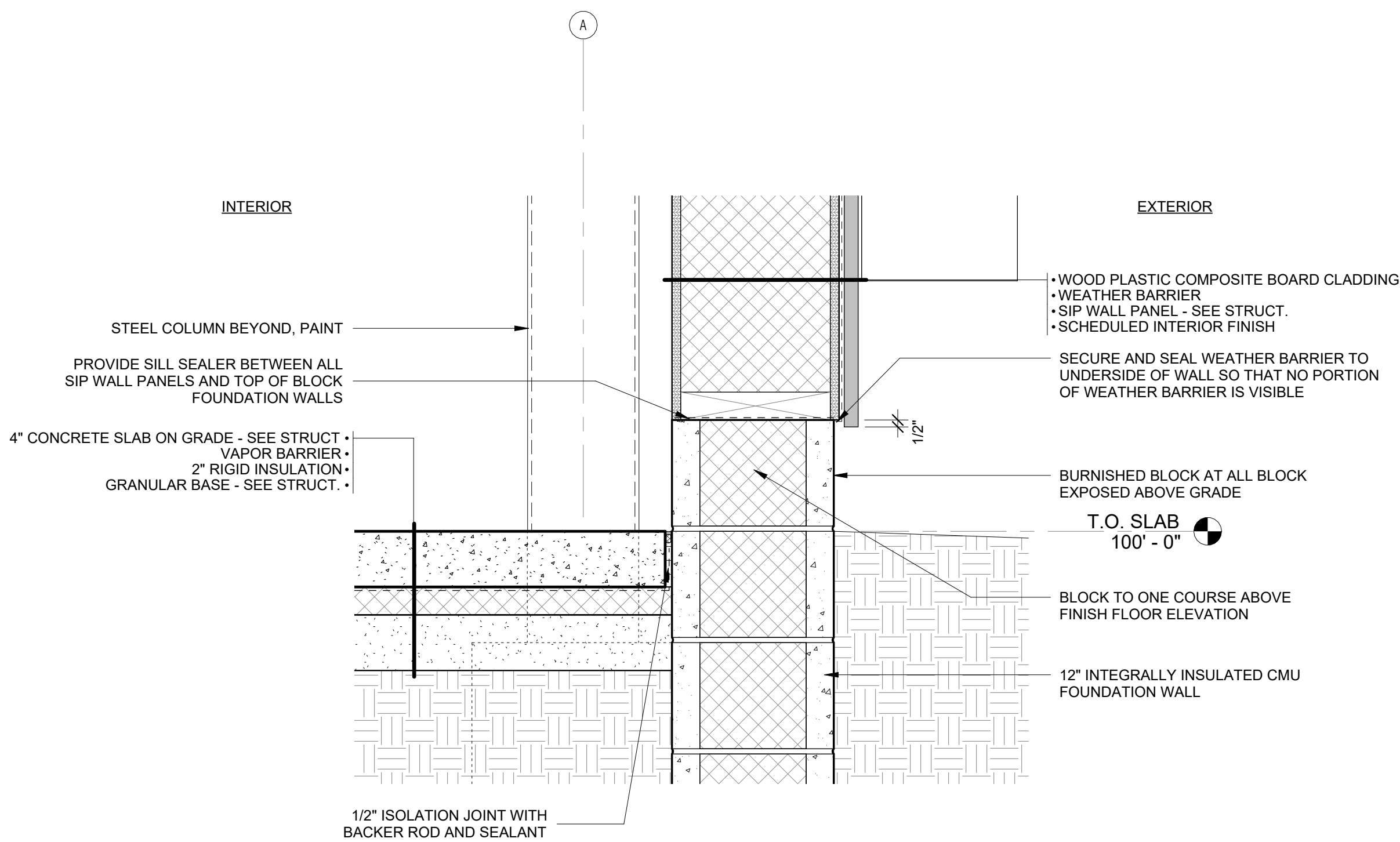
A603



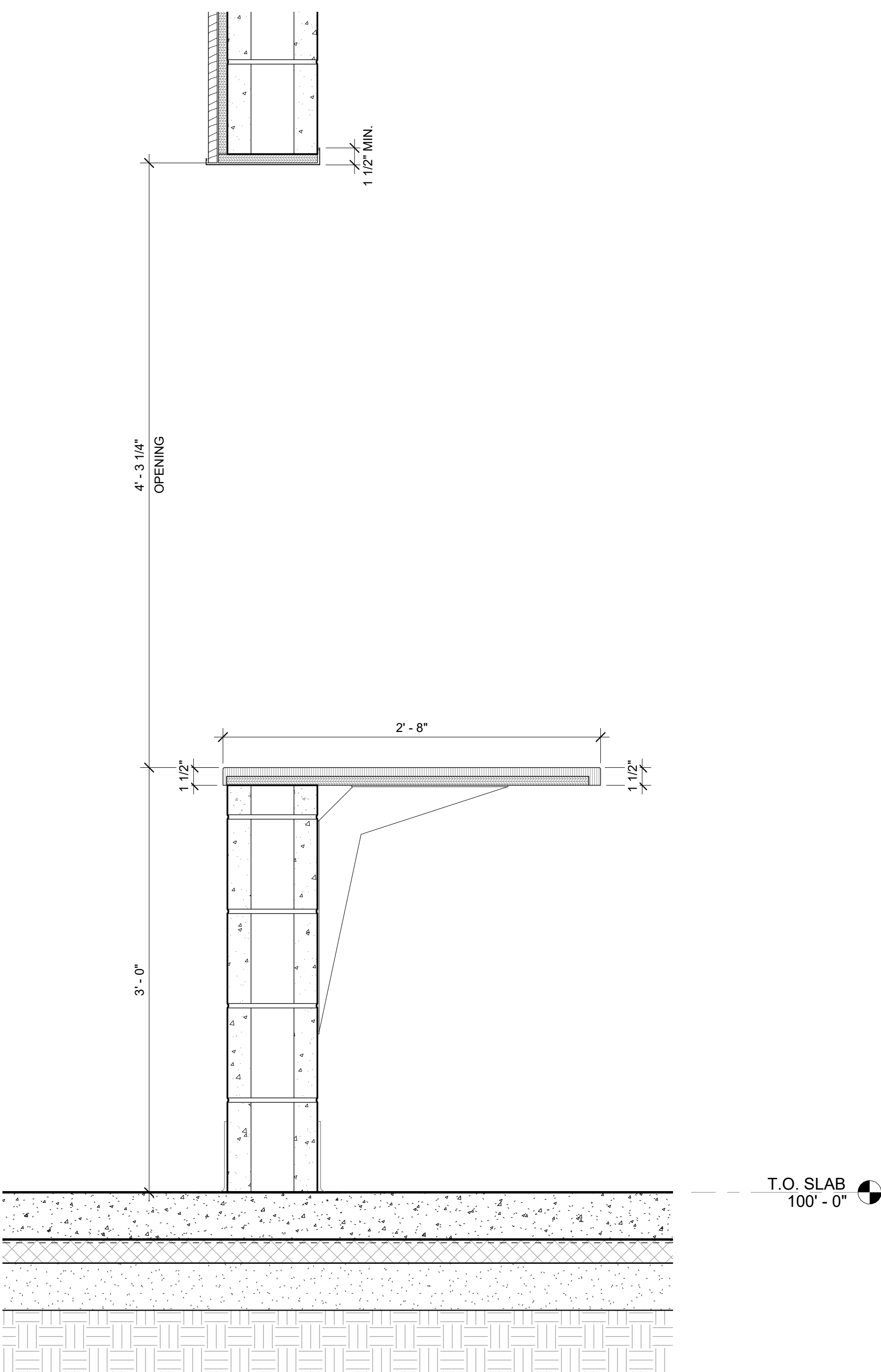
4 DETAIL
1 1/2" = 1'-0"



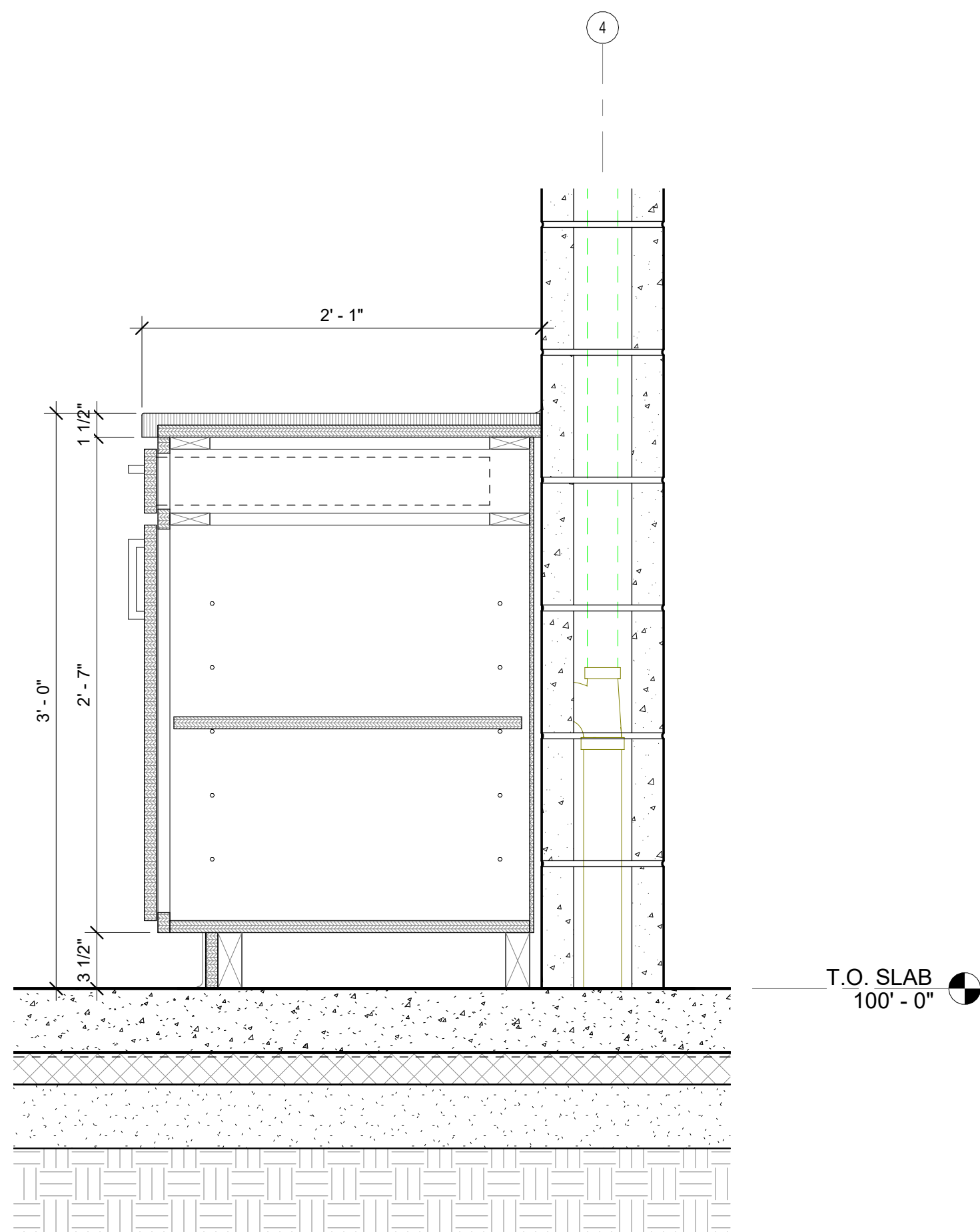
2 DETAIL
TYP. SIP WALL @ FOUNDATION
1 1/2" = 1'-0"



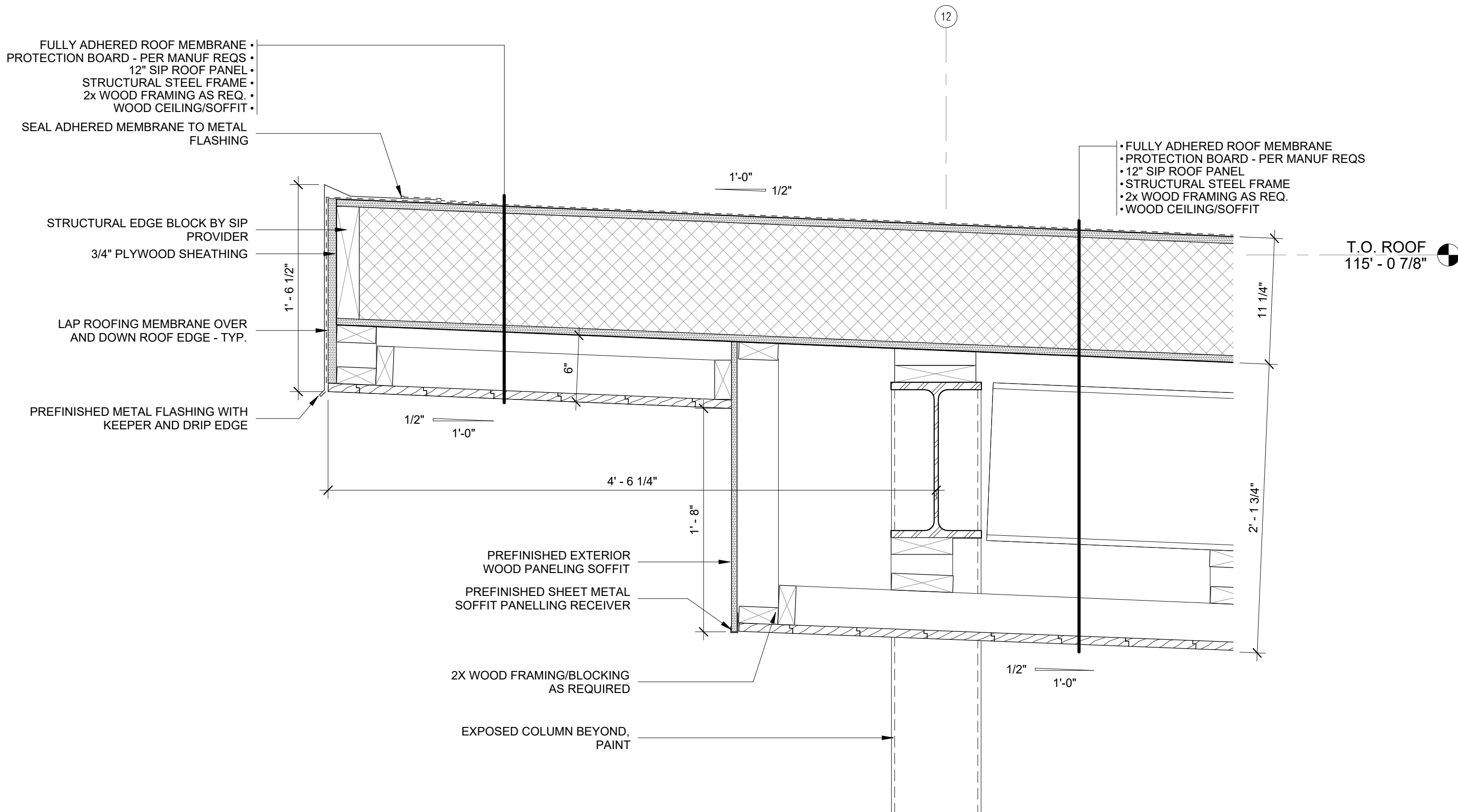
3 DETAIL
TYP. SIP WALL @ FOUNDATION
1 1/2" = 1'-0"



5 N/S BUILDING SECTION1
1 1/2" = 1'-0"



6 N/S BUILDING SECTION2
1 1/2" = 1'-0"



1 DETAIL
SOFFIT @ CANOPY ROOF
1 1/2" = 1'-0"



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:

INTERIOR ELEVATIONS

REVISIONS:		
No.	Date	Description

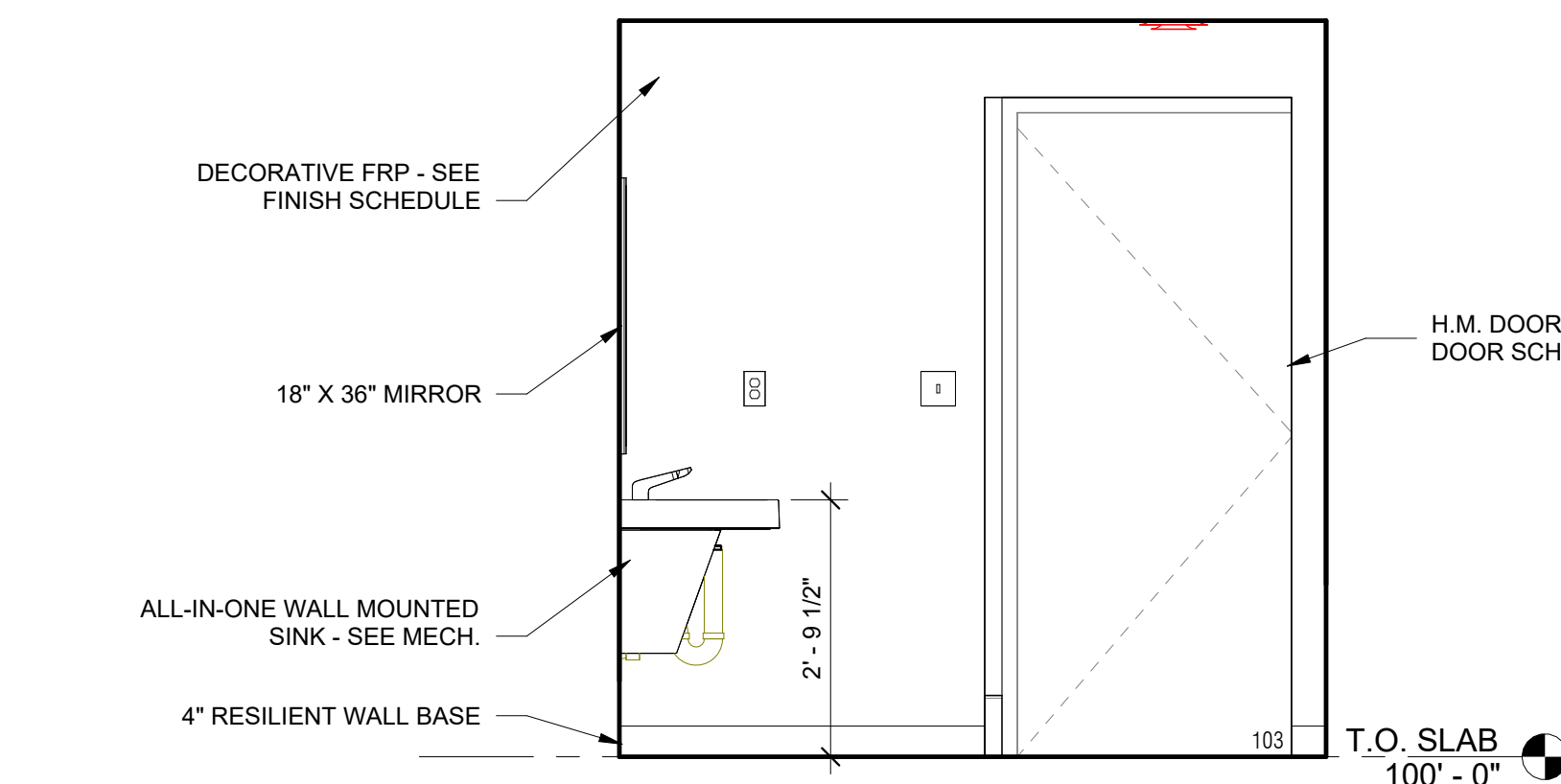
22-25 02/03/2023

PROJECT NUMBER DATE

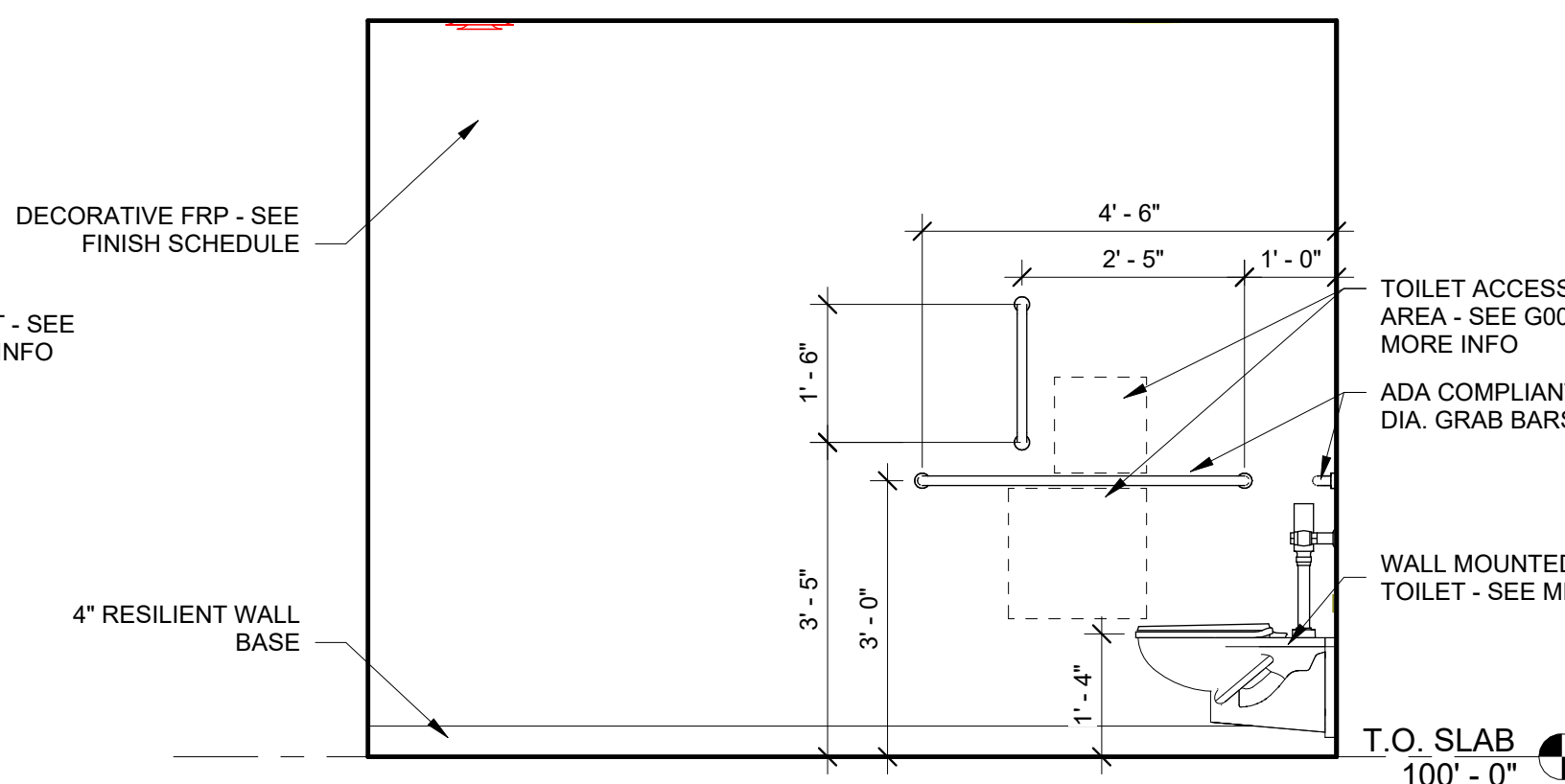
MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

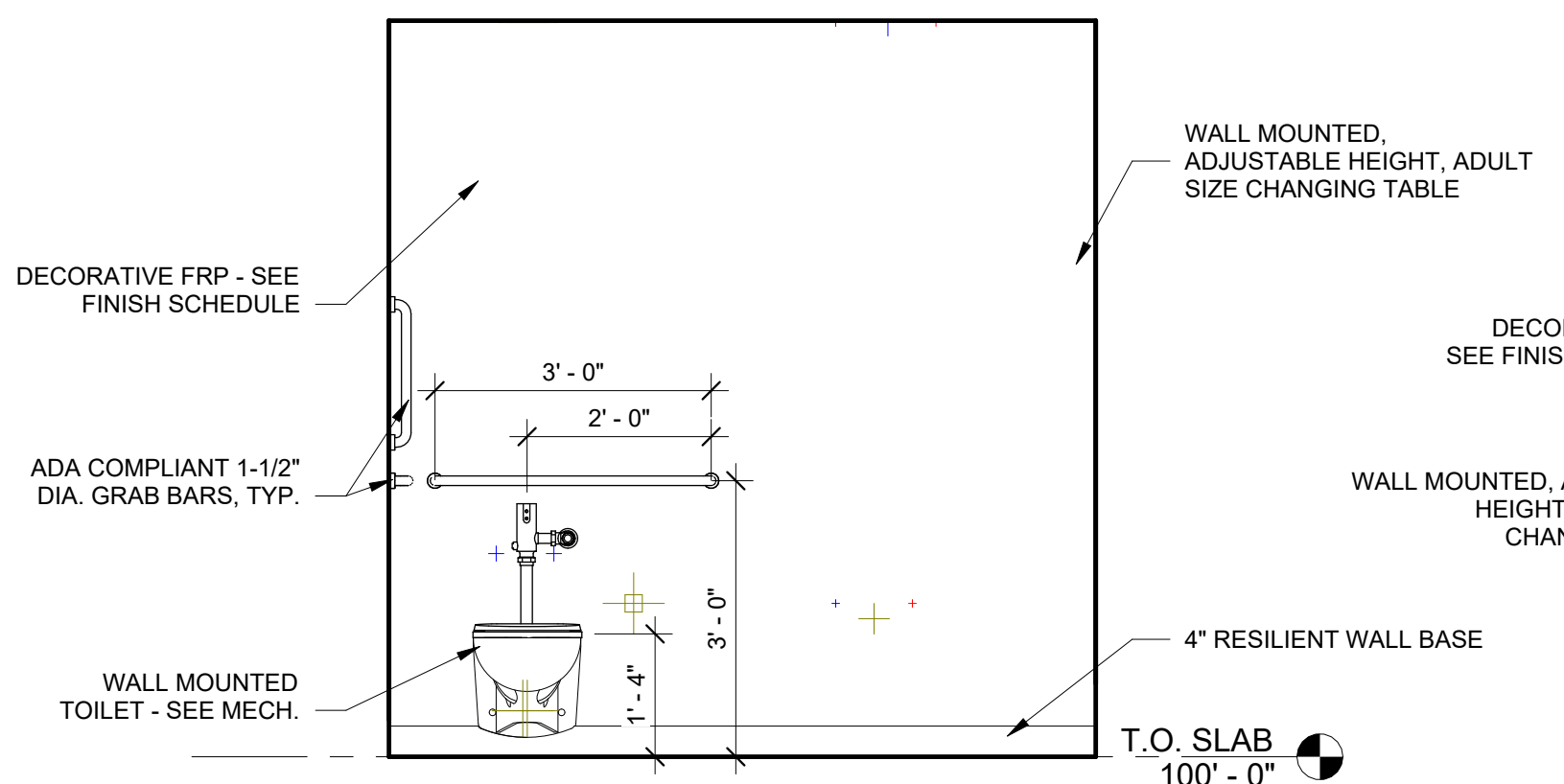
A701



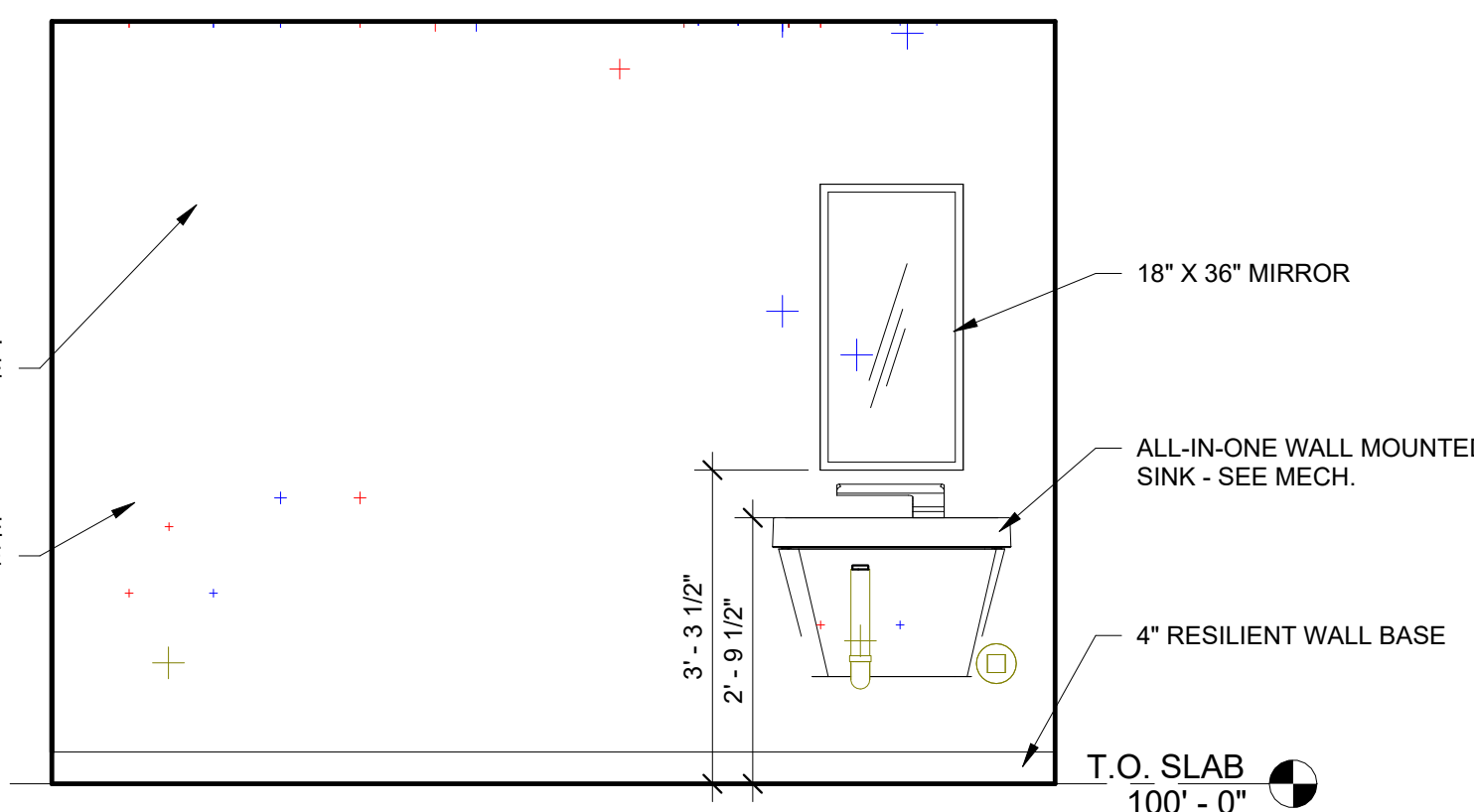
1 NORTH ELEVATION
EXTERIOR ACCESS RESTROOM - WEST
1/2" = 1'-0"



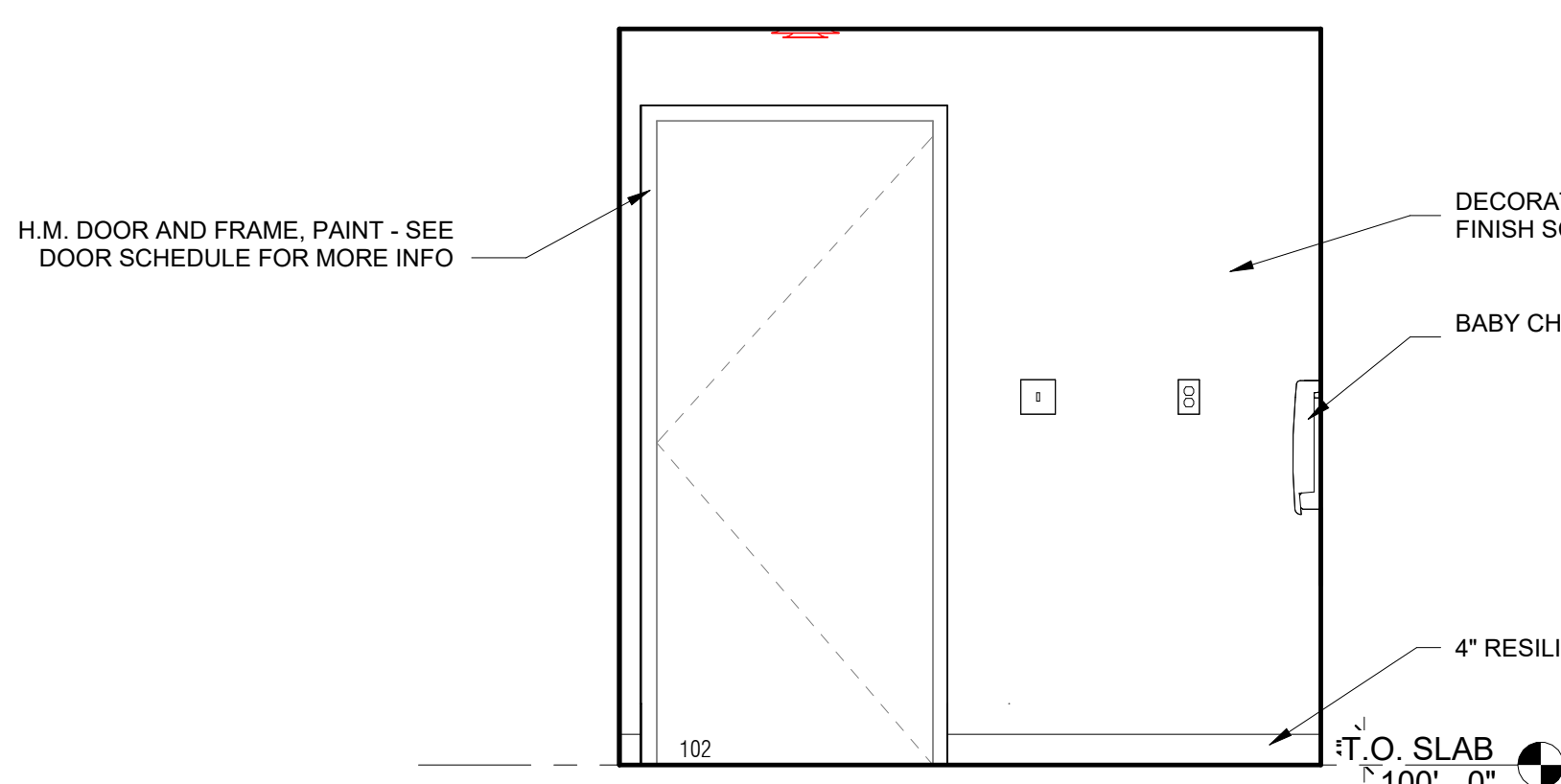
2 EAST ELEVATION
EXTERIOR ACCESS RESTROOM - WEST
1/2" = 1'-0"



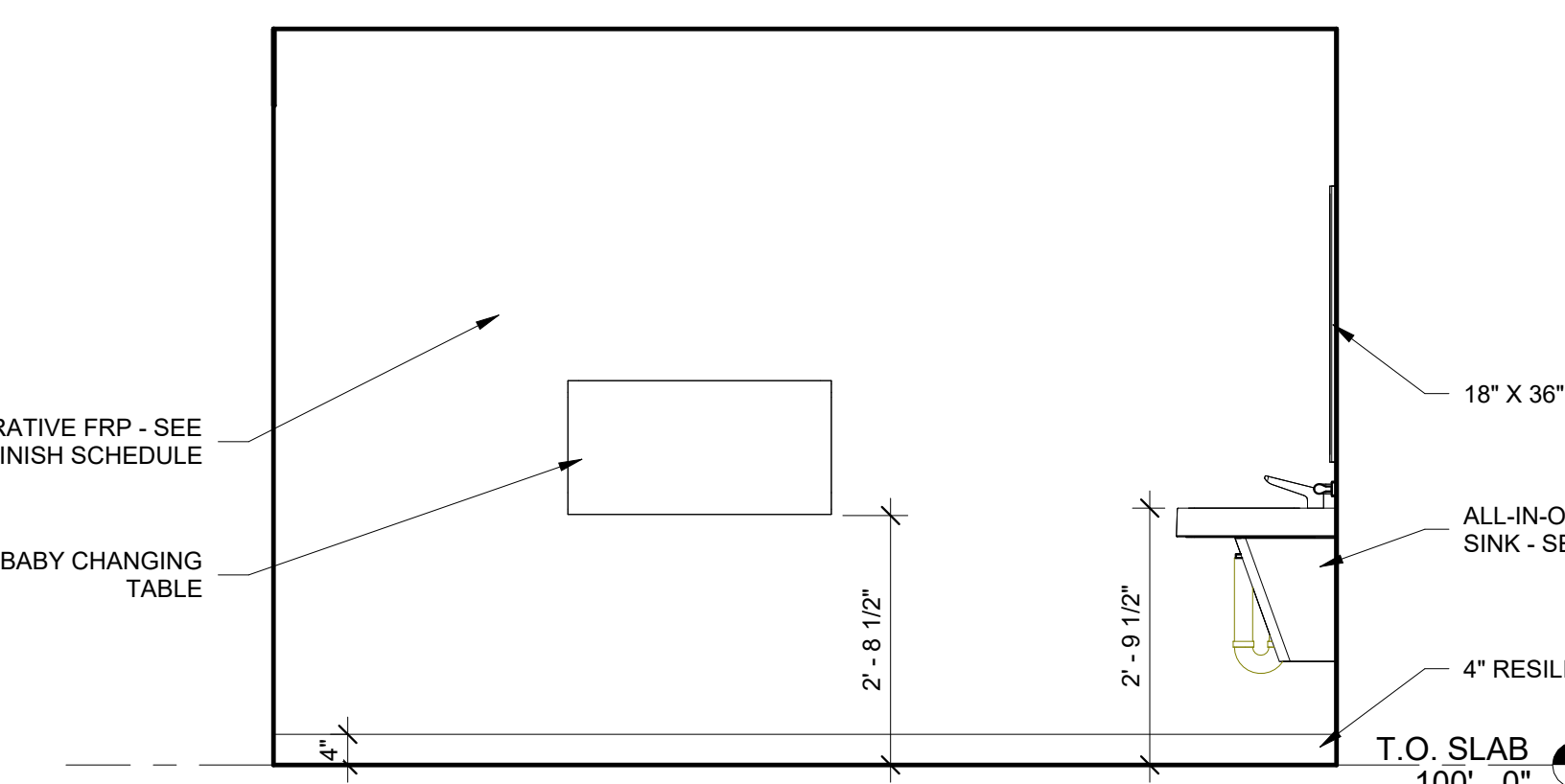
3 SOUTH ELEVATION
EXTERIOR ACCESS RESTROOM - WEST
1/2" = 1'-0"



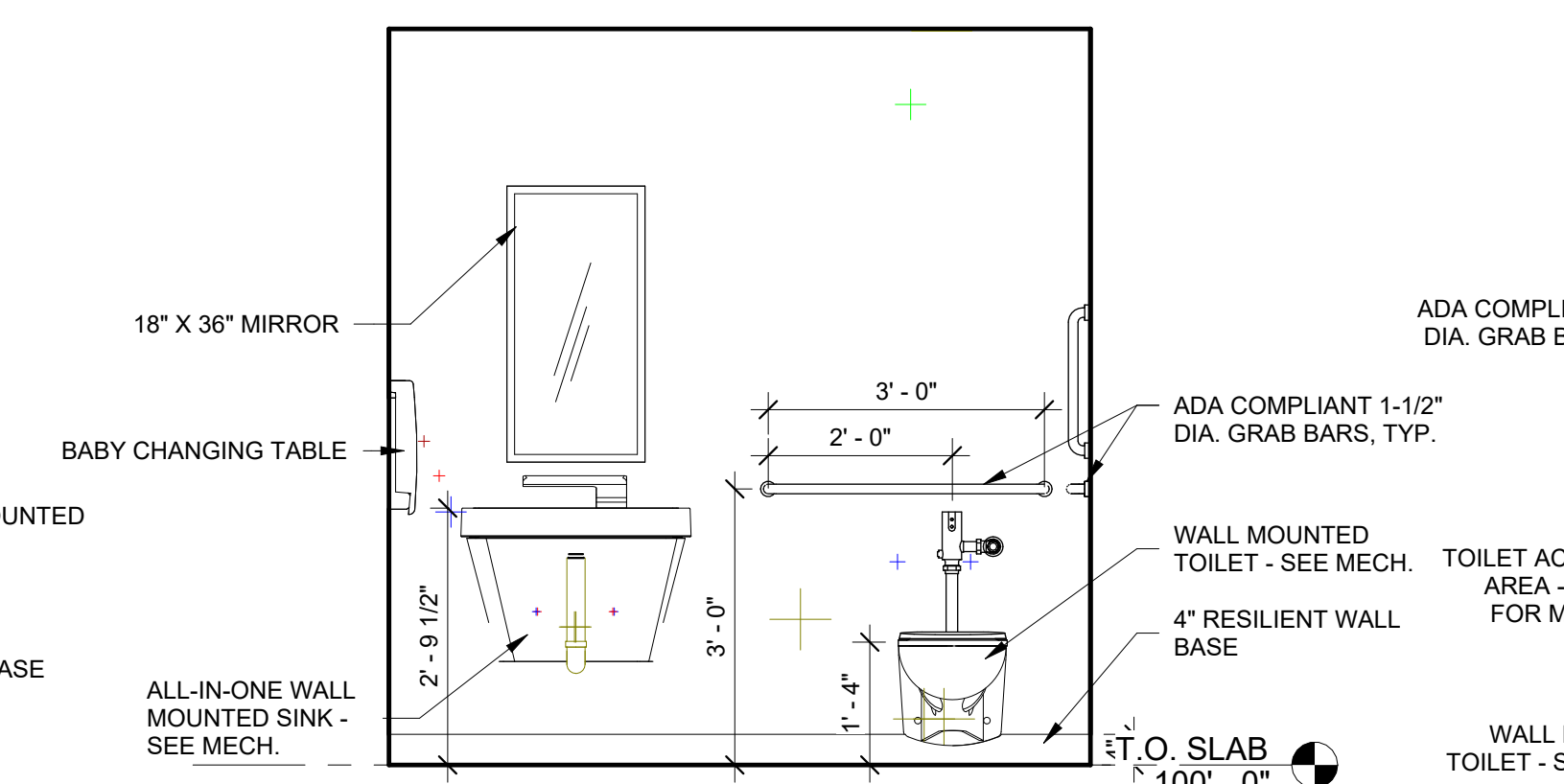
4 WEST ELEVATION
EXTERIOR ACCESS RESTROOM - WEST
1/2" = 1'-0"



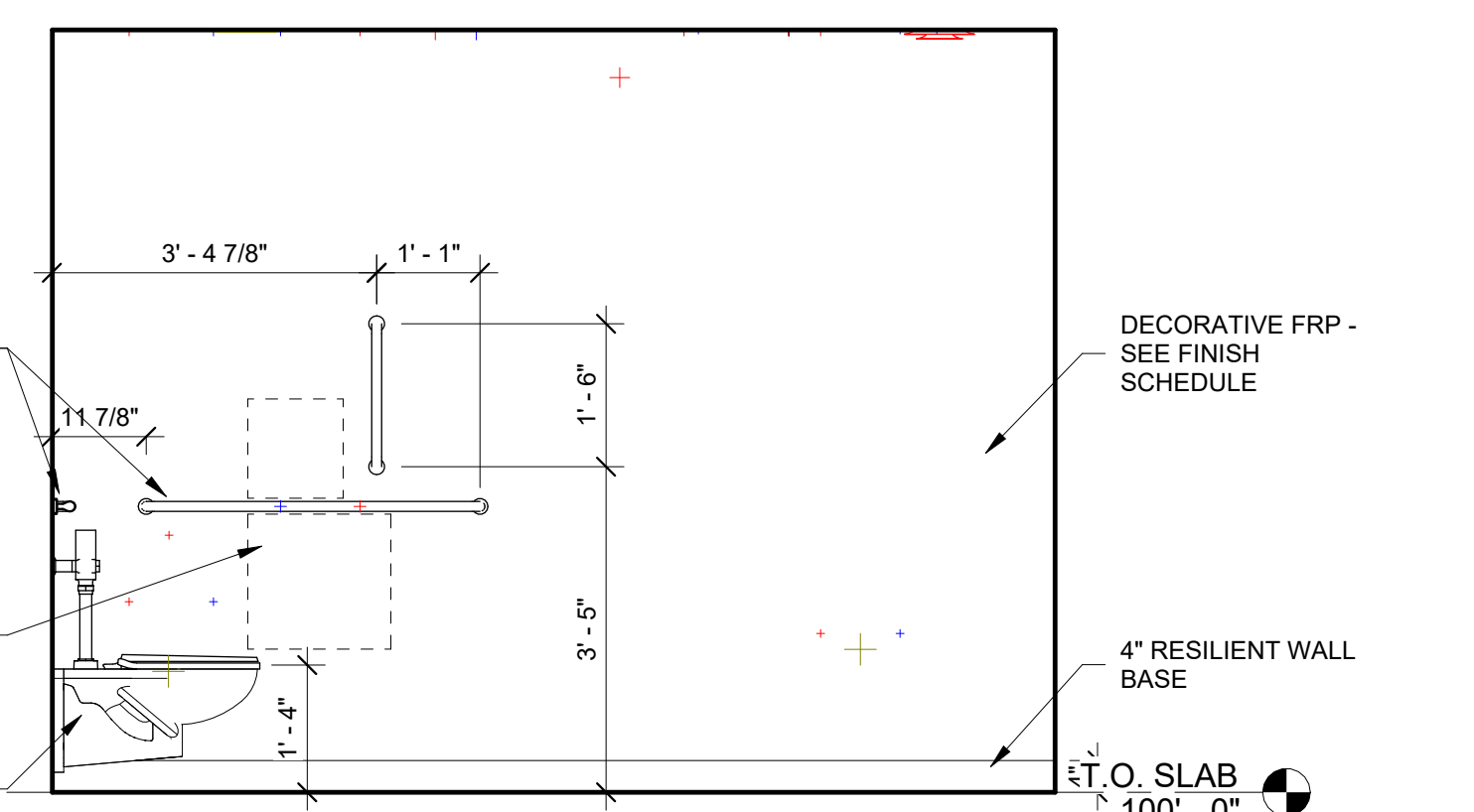
5 NORTH ELEVATION
EXTERIOR ACCESS RESTROOM - EAST
1/2" = 1'-0"



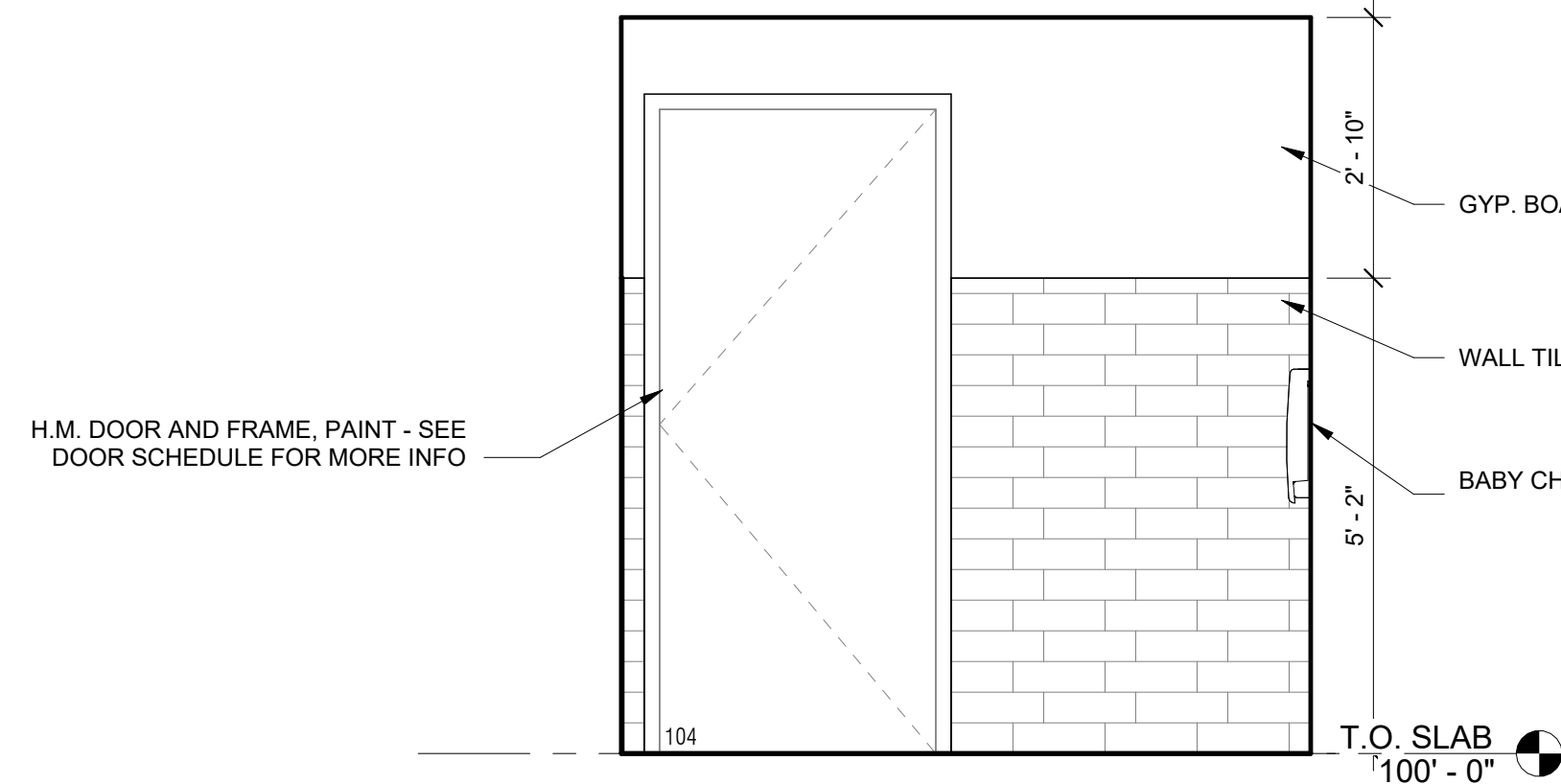
6 EAST ELEVATION
EXTERIOR ACCESS RESTROOM - EAST
1/2" = 1'-0"



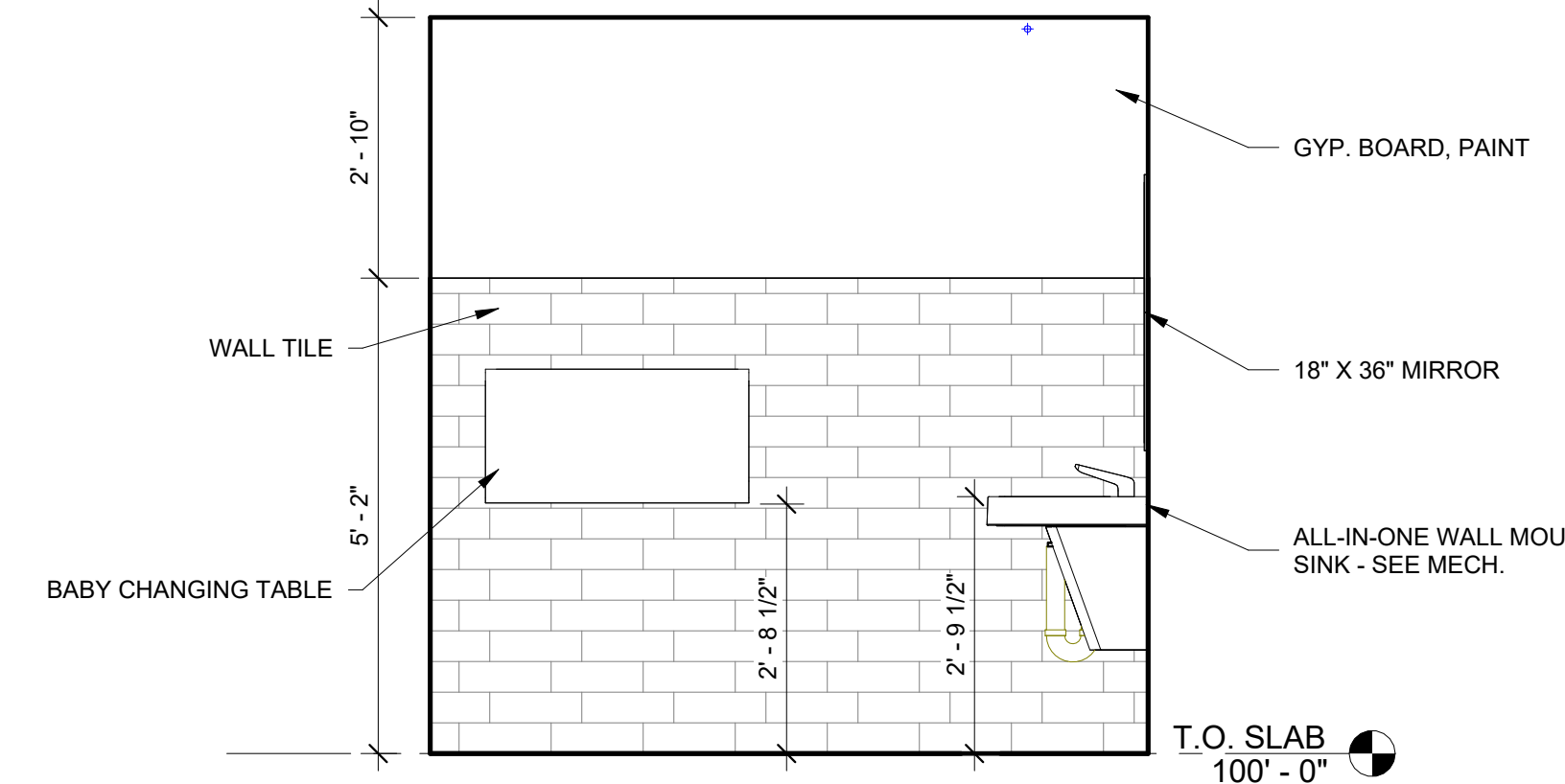
7 SOUTH ELEVATION
EXTERIOR ACCESS RESTROOM - EAST
1/2" = 1'-0"



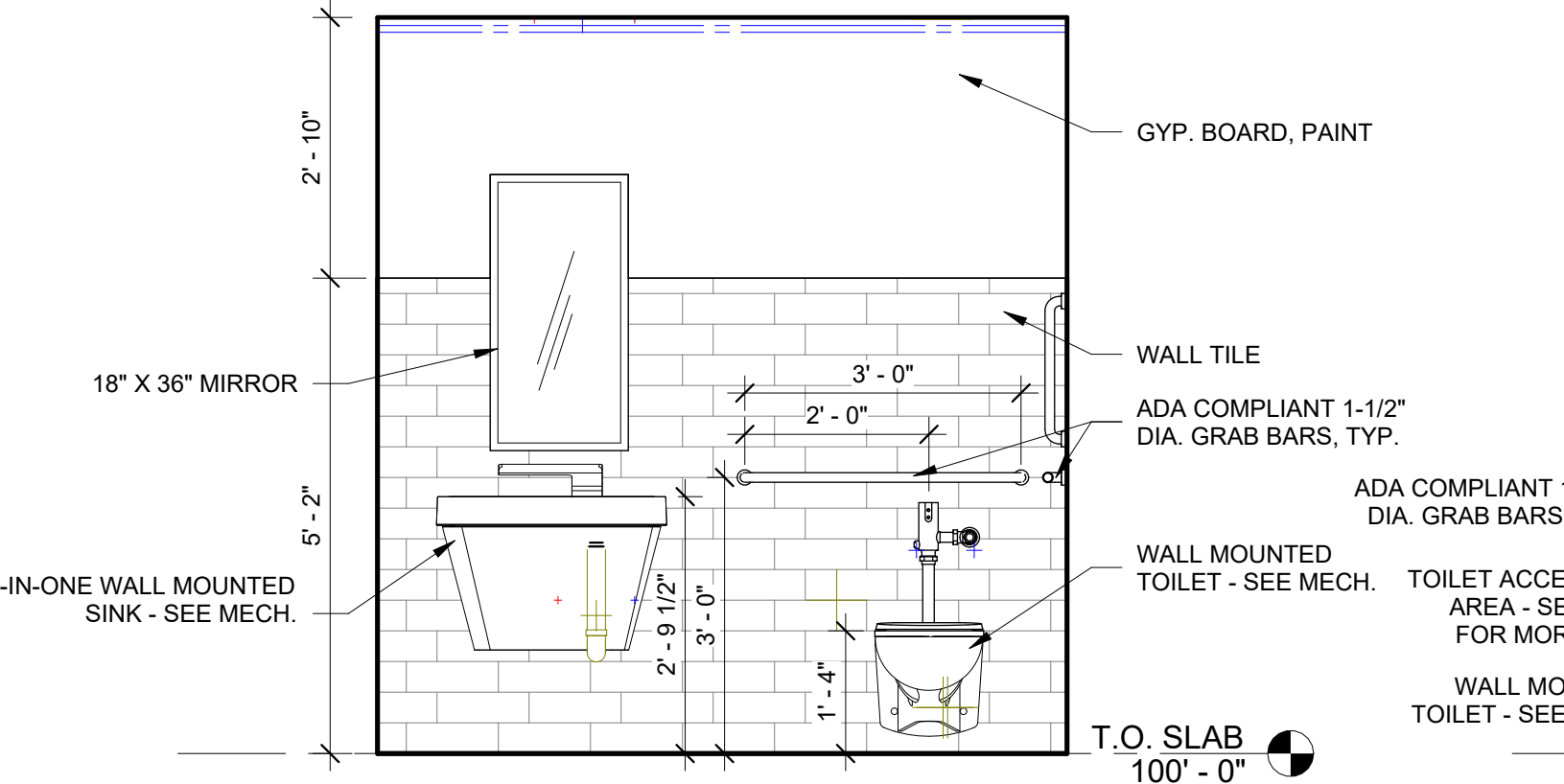
8 WEST ELEVATION
EXTERIOR ACCESS RESTROOM - EAST
1/2" = 1'-0"



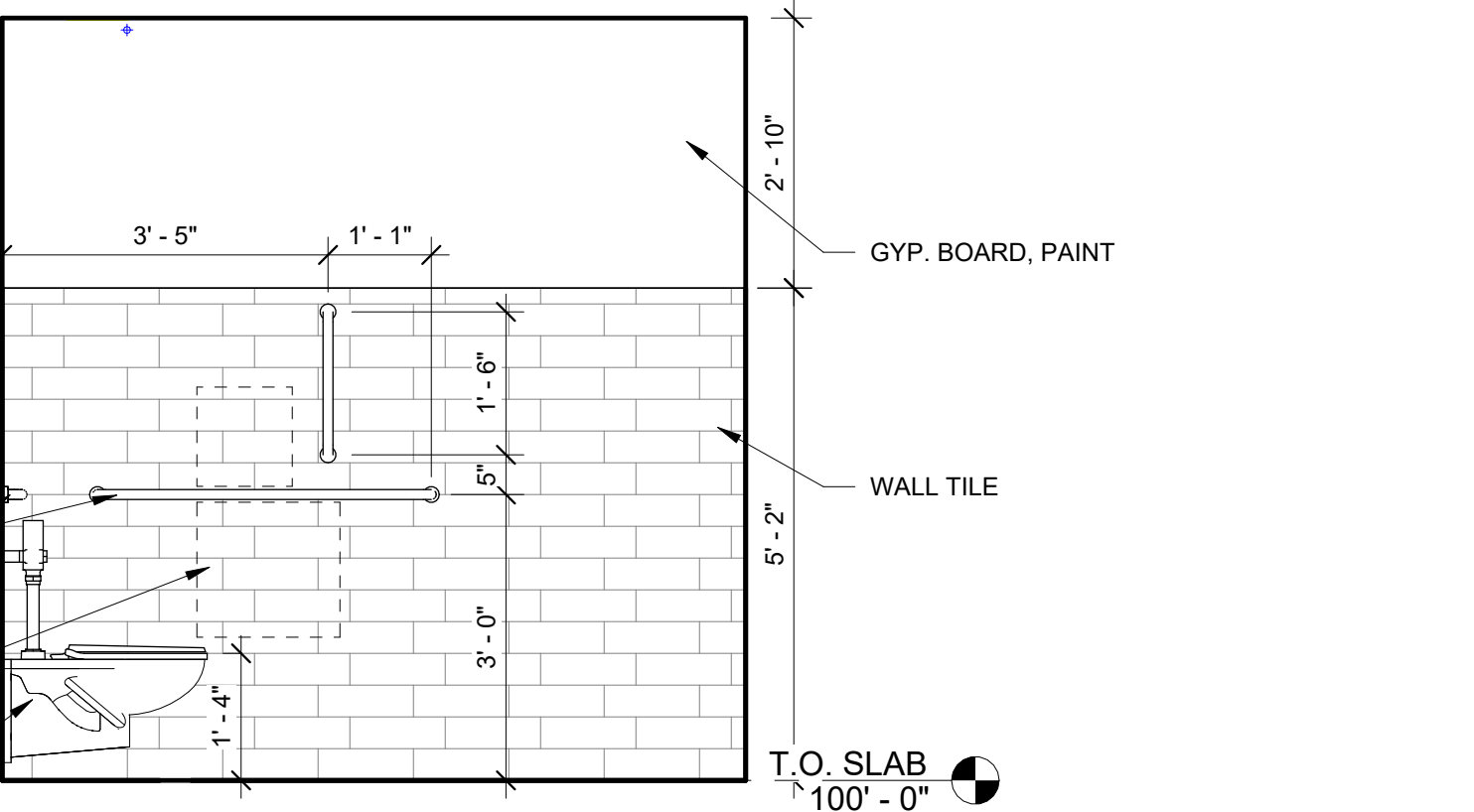
9 SOUTH ELEVATION
INTERIOR ACCESS RESTROOM
1/2" = 1'-0"



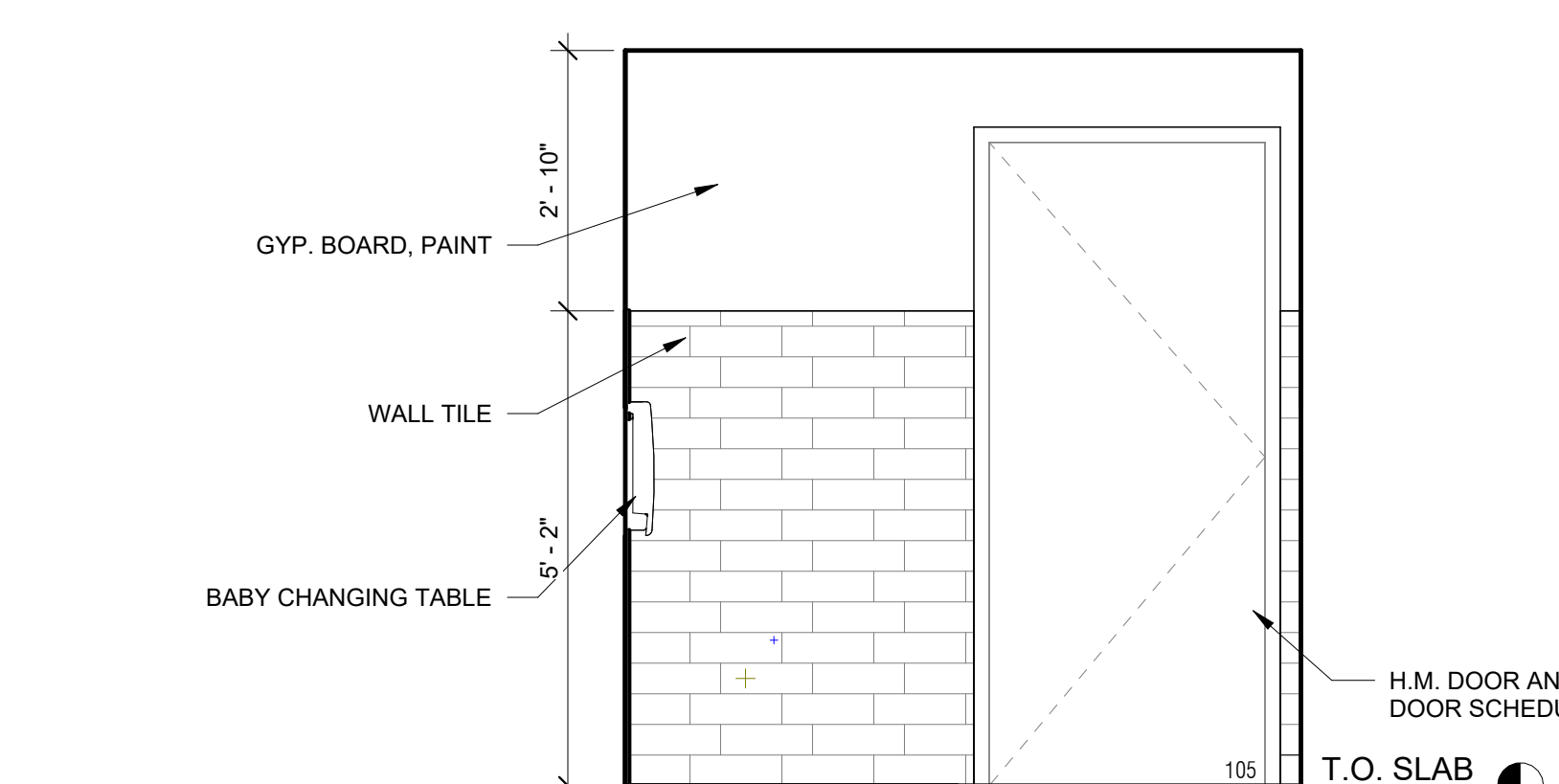
10 WEST ELEVATION
INTERIOR ACCESS RESTROOM
1/2" = 1'-0"



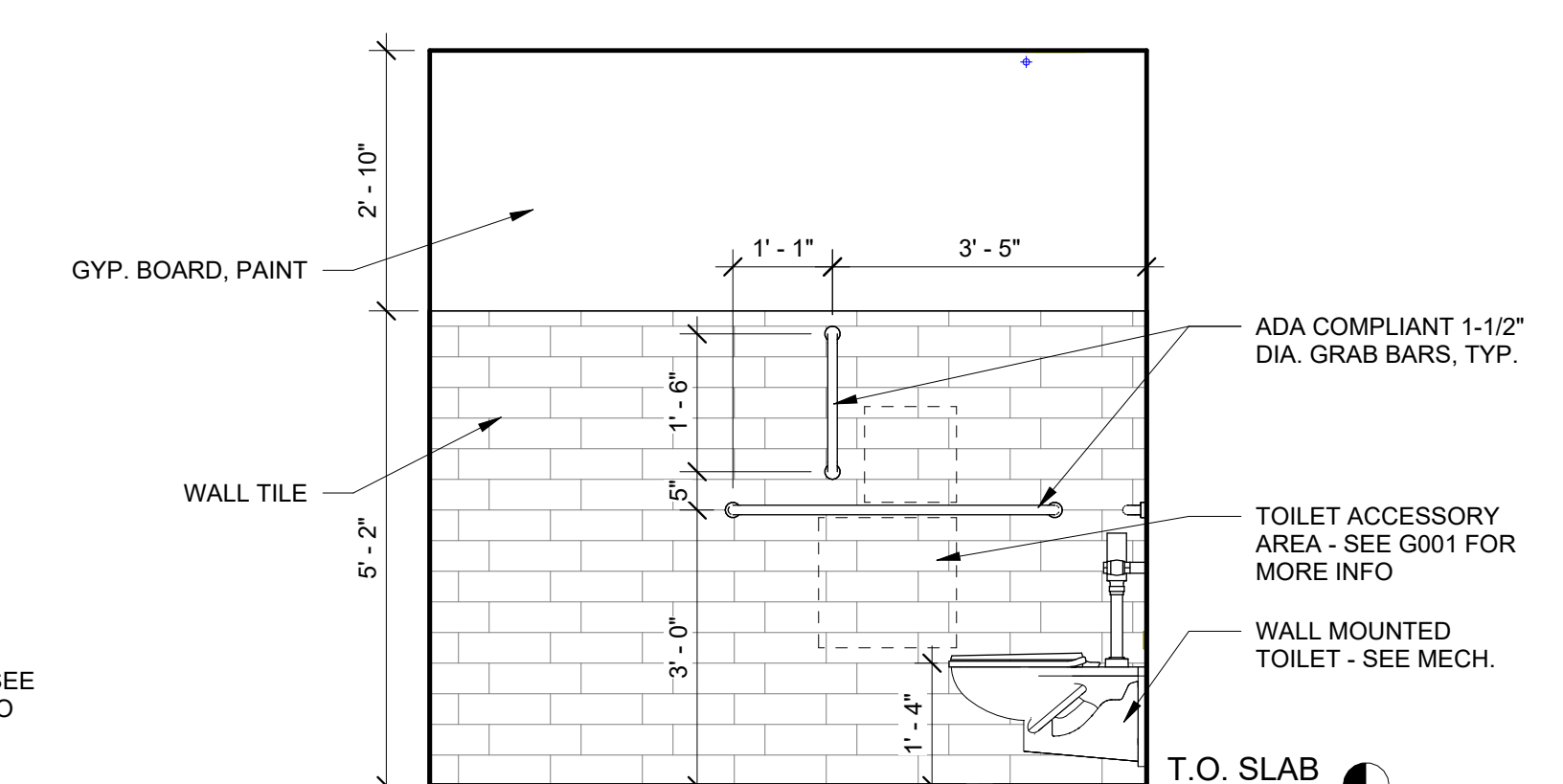
11 NORTH ELEVATION
INTERIOR ACCESS RESTROOM
1/2" = 1'-0"



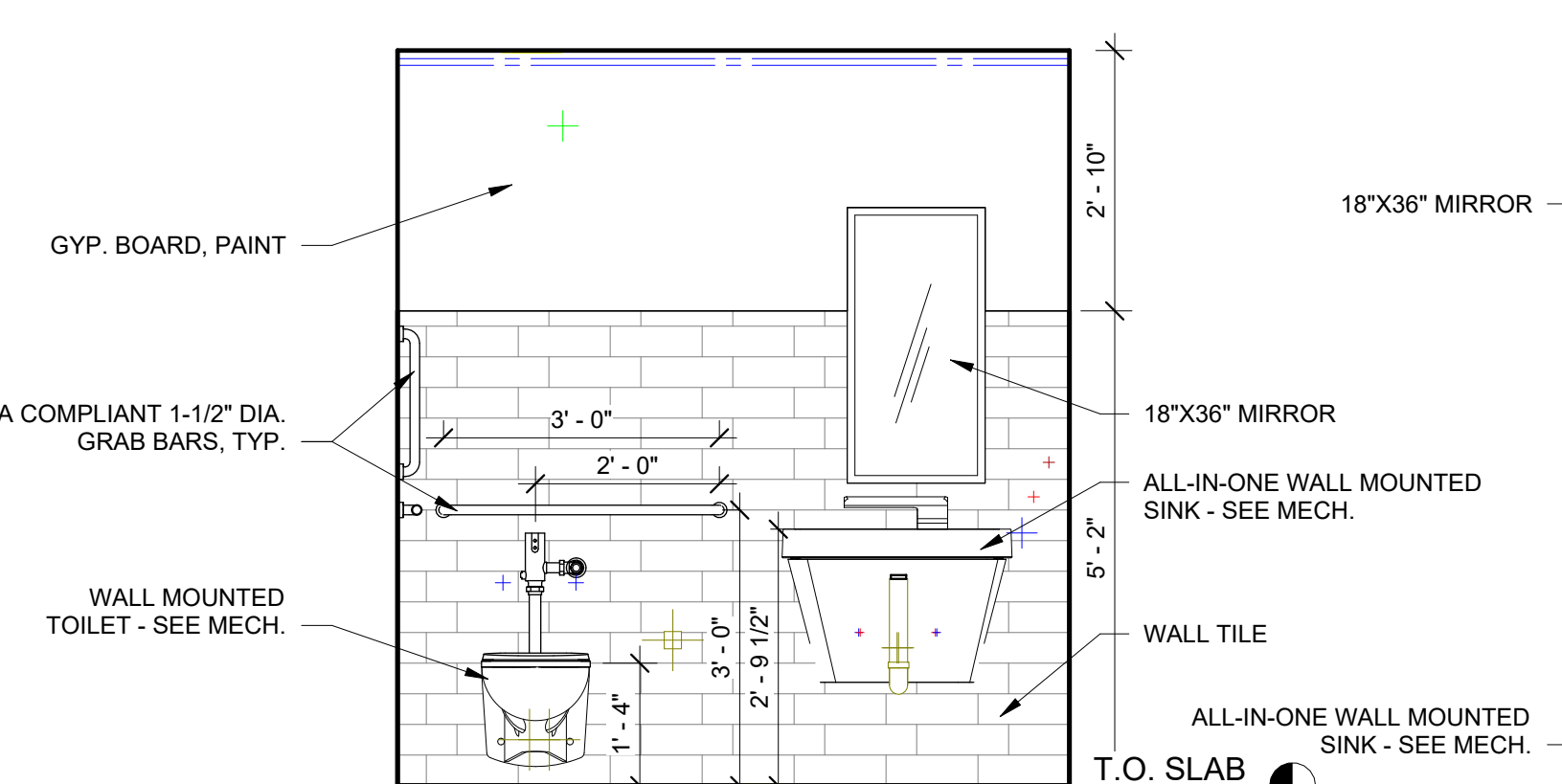
12 EAST ELEVATION
INTERIOR ACCESS RESTROOM
1/2" = 1'-0"



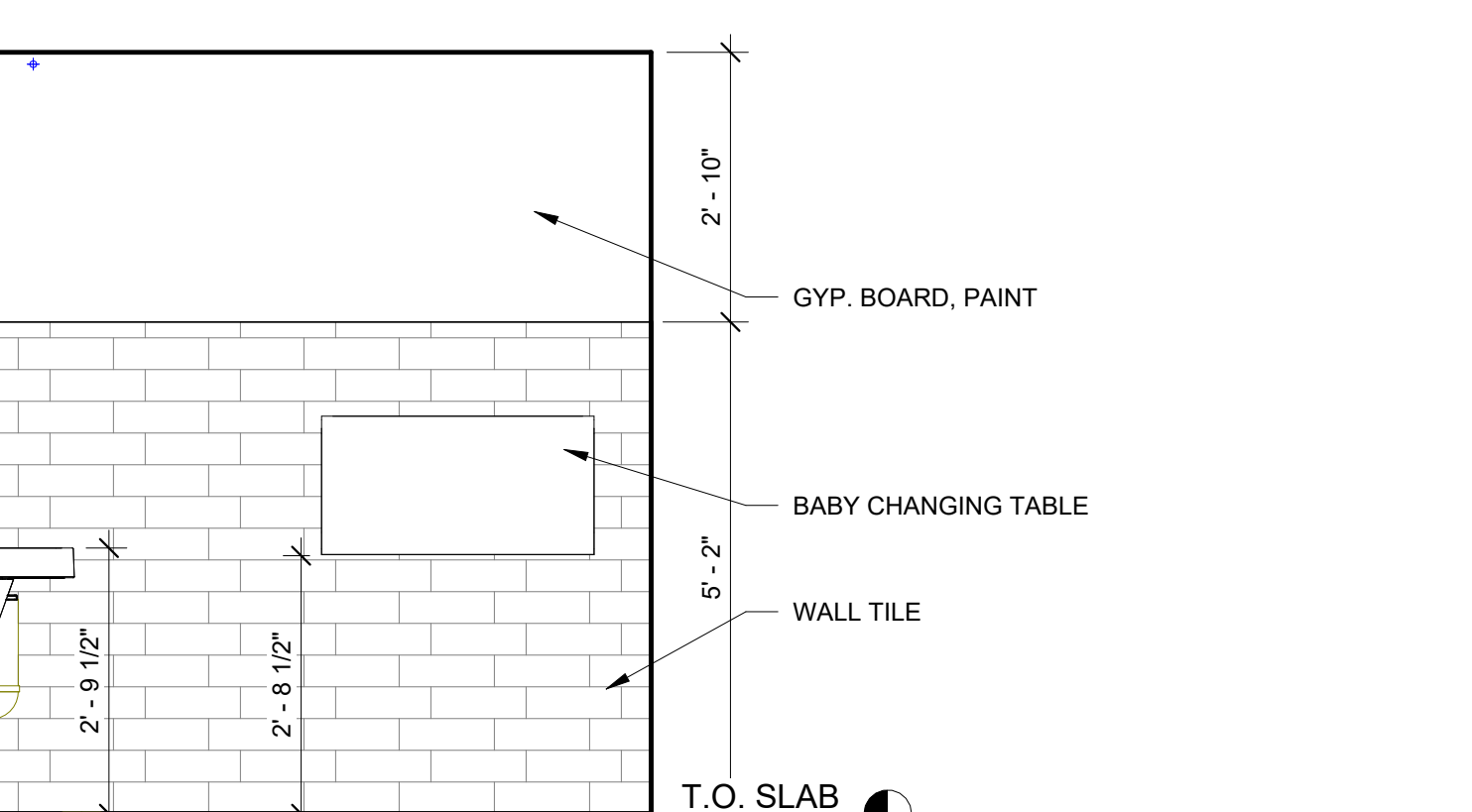
13 SOUTH ELEVATION
INTERIOR ACCESS RESTROOM
1/2" = 1'-0"



14 WEST ELEVATION
INTERIOR ACCESS RESTROOM
1/2" = 1'-0"



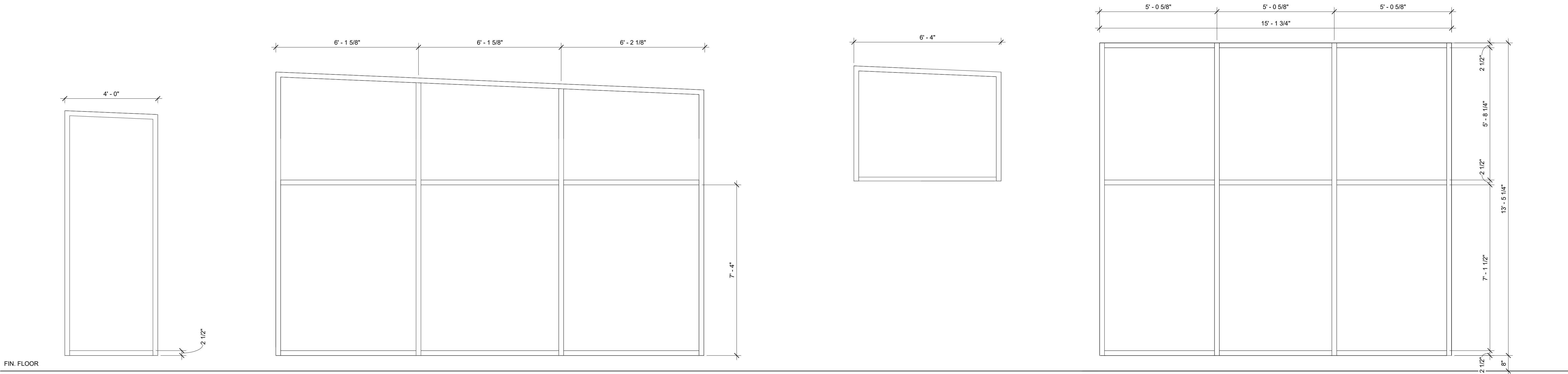
15 NORTH ELEVATION
INTERIOR ACCESS RESTROOM
1/2" = 1'-0"



16 EAST ELEVATION
INTERIOR ACCESS RESTROOM
1/2" = 1'-0"

CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS

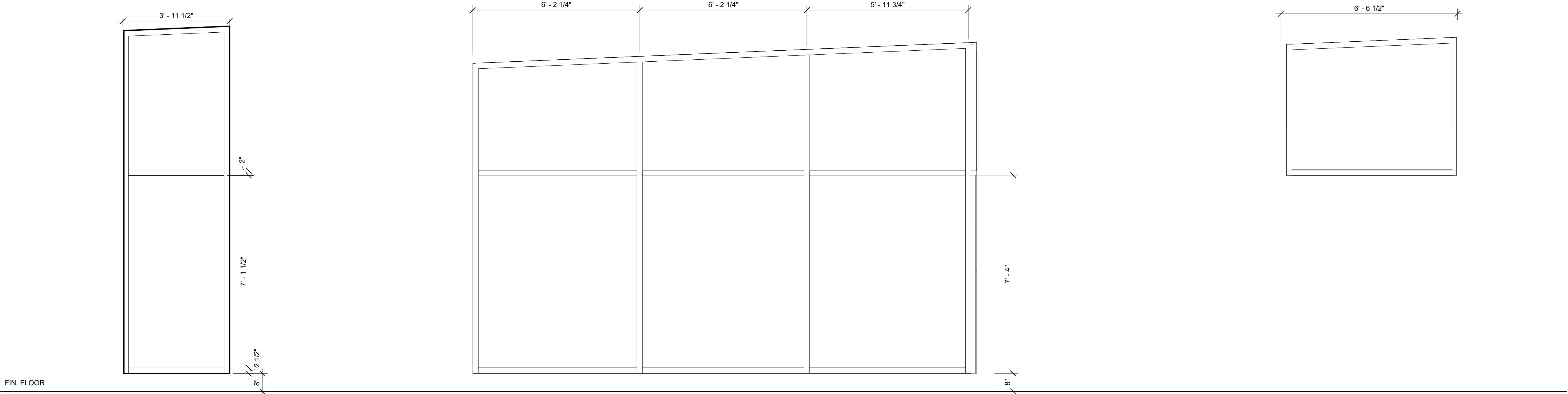


W1

W2

W3

W4



W5

W6

W7

NOTES:

- FIELD VERIFY ALL OPENING DIMENSIONS PRIOR TO FABRICATING DOORS, FRAMES, AND WINDOWS
- DOOR CONFIGURATION SHOWN FOR REFERENCE ONLY, MANUFACTURER LAYOUT MAY VARY (VERIFY)
- GLASS TYPES INDICATED ARE TYPICAL, ALL NON TYPICAL INSTANCES ARE NOTED ON THE DOOR SCHEDULE
- ALL STOREFRONT WINDOWS ARE PREFINISHED ALUMINUM WITH 2" FRAMES U.N.O.

WINDOW TYPE LEGEND		
W-1	SF-1	PREFINISHED EXTERIOR ALUMINUM FRAME
	G1	VISION GLASS
W-2	SF-2	PREFINISHED INTERIOR ALUMINUM FRAME
	G3	VISION GLASS
W-3	SF-1	PREFINISHED EXTERIOR ALUMINUM FRAME
	G2	TRANSLUCENT GLASS - UPPER
	G1	VISION GLASS - LOWER
CW-1	SF-1	EXTERIOR ALUMINUM FRAME
	G1	VISION GLASS
TW-1		TRANSLUCENT WALL PANEL

GLASS TYPE NOTES:

G1	LOW-E INSULATED VISION GLASS
G2	LOW-E INSULATED TRANSLUCENT GLASS
G3	1/4" CLEAR @ INTERIOR
TP	EXTERIOR / INTERIOR - CRYSTAL / CRYSTAL

PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:

WINDOW SCHEDULE

REVISIONS:

No.	Date	Description

22-25 02/03/2023

PROJECT NUMBER DATE

MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

A801

CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:

Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

4648502/03/2023

LICENSE #DATE

SHEET NAME:

FINISH SCHEDULES

REVISIONS:		
No.	Date	Description

22-2502/03/2023

PROJECT NUMBERDATE

MMPANC

DRAWN BYCHECKED BY

SHEET NO:

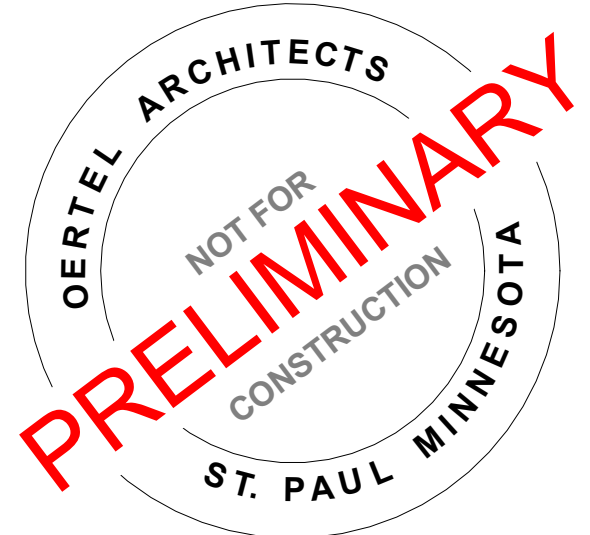
A802

ROOM SCHEDULE							
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENTS
101	ENTRY	CONCRETE - POLISH	RESILIENT	WOOD - CMU - PAINT	GYP. BOARD - PAINT	8' - 0"	
102	RESTROOM	CONCRETE - POLISH	RESILIENT	DECORATIVE FRP	GYP. BOARD - PAINT	8' - 0"	
103	RESTROOM	CONCRETE - POLISH	RESILIENT	DECORATIVE FRP	GYP. BOARD - PAINT	8' - 0"	
104	RESTROOM	TILE	-	TILE, GYP. BOARD - PAINT	GYP. BOARD - PAINT	8' - 0"	
105	RESTROOM	TILE	-	TILE, GYP. BOARD - PAINT	GYP. BOARD - PAINT	8' - 0"	
106	STAFF	CONCRETE - POLISH	RESILIENT	CMU - PAINT	ACT	8' - 0"	
107	STORAGE	CONCRETE - SEAL	RESILIENT	CMU - PAINT	OPEN	8' - 4"	
108	MECHANICAL	CONCRETE - SEAL	RESILIENT	CMU - PAINT	ACT	8' - 0"	
109	CORRIDOR	CONCRETE - POLISH	RESILIENT	WOOD	ACT	8' - 0"	
110	CORRIDOR	CONCRETE - POLISH	RESILIENT	WOOD	WOOD - SEAL	8' - 0"	HEIGHT VARIES
111	KITCHEN	CONCRETE - POLISH	RESILIENT	CMU - PAINT	ACT	8' - 0"	
112	INDOOR GATHERING	CONCRETE - POLISH	RESILIENT	WOOD	WOOD - SEAL		HEIGHT VARIES



CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building

5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER

46485 02/03/2023
LICENSE # DATE

SHEET NAME:

DOOR SCHEDULE

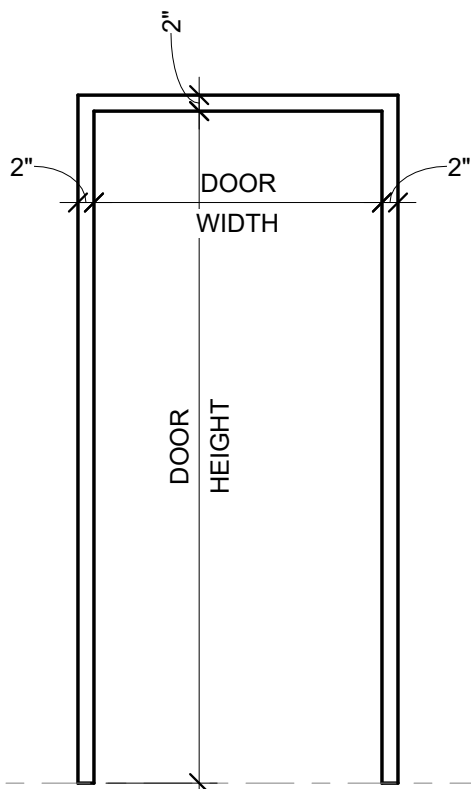
REVISIONS:		
No.	Date	Description

22-25 02/03/2023
PROJECT NUMBER DATE
MMP ANC
DRAWN BY CHECKED BY

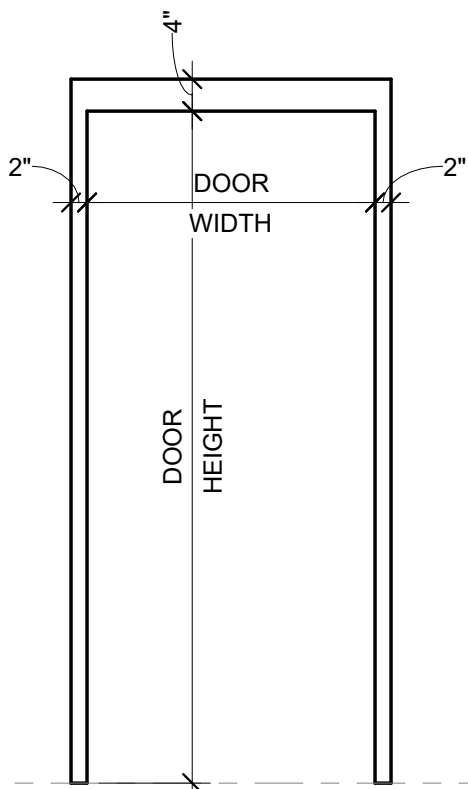
SHEET NO:

A803

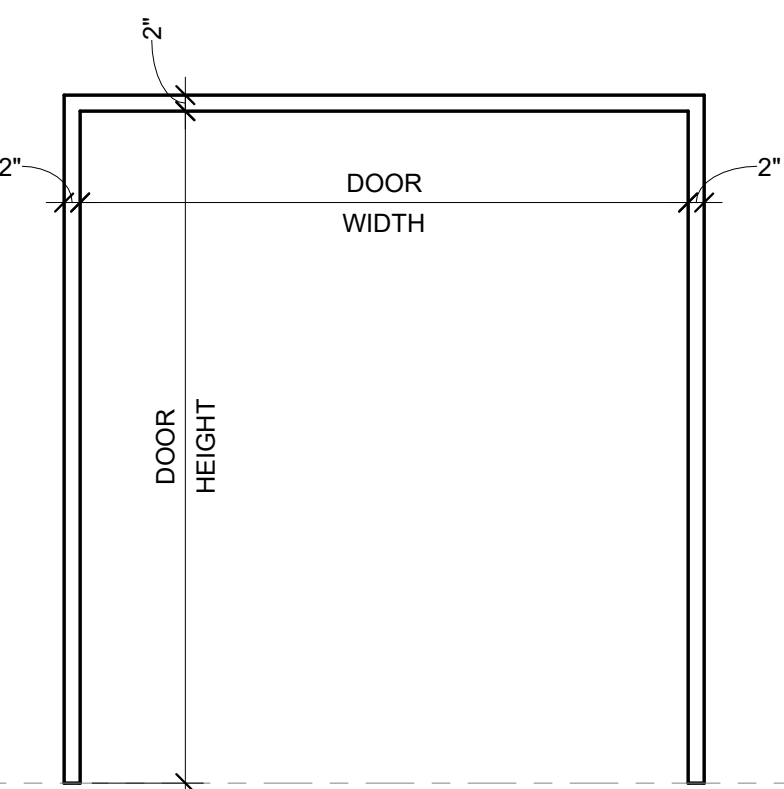
DOOR SCHEDULE										
DOOR NUMBER	DOOR					FRAME		HARDWARE	FIRE RATING	COMMENTS
	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	MATERIAL			
101a	D2	3' - 0"	8' - 0"	1 3/4"	H.M.	F1	H.M.	07		Insulated, Double Door
101b	D2	3' - 0"	8' - 0"	1 3/4"	H.M.	F1	H.M.	10		Insulated, Double Door
102	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	F1	H.M.	05		Insulated
103	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	F1	H.M.	05		Insulated
104	D1	3' - 0"	7' - 0"	1 3/4"	WOOD	F1	H.M.	02	-	-
105	D1	3' - 0"	7' - 0"	1 3/4"	WOOD	F1	H.M.	02	-	-
106	D3	3' - 0"	7' - 0"	1 3/4"	WOOD	F2	H.M.	01	-	-
107a	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	F1	H.M.	04		Double Door
107b	D1	3' - 0"	7' - 0"	1 3/4"	H.M.	F1	H.M.	06		Insulated, Double Door
108	D1	3' - 0"	7' - 0"	1 3/4"	WOOD	F1	H.M.	03		Double Door
111a	D3	3' - 0"	7' - 0"	1 3/4"	WOOD	F1	H.M.	09	-	-
111b	D3	3' - 0"	7' - 0"	1 3/4"	WOOD	F1	H.M.	09	-	-
112a	D2	3' - 0"	8' - 0"	1 3/4"	H.M.	F1	H.M.	08		Insulated, Double Door
112b	D2	3' - 0"	8' - 0"	1 3/4"	H.M.	F1	H.M.	08		Insulated, Double Door
112c	D2	3' - 0"	8' - 0"	1 3/4"	H.M.	F1	H.M.	08	-	Insulated, Double Door



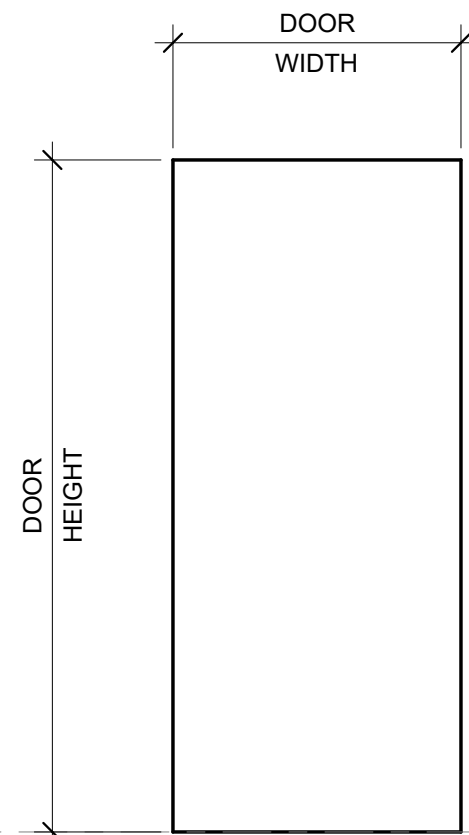
F1



F2

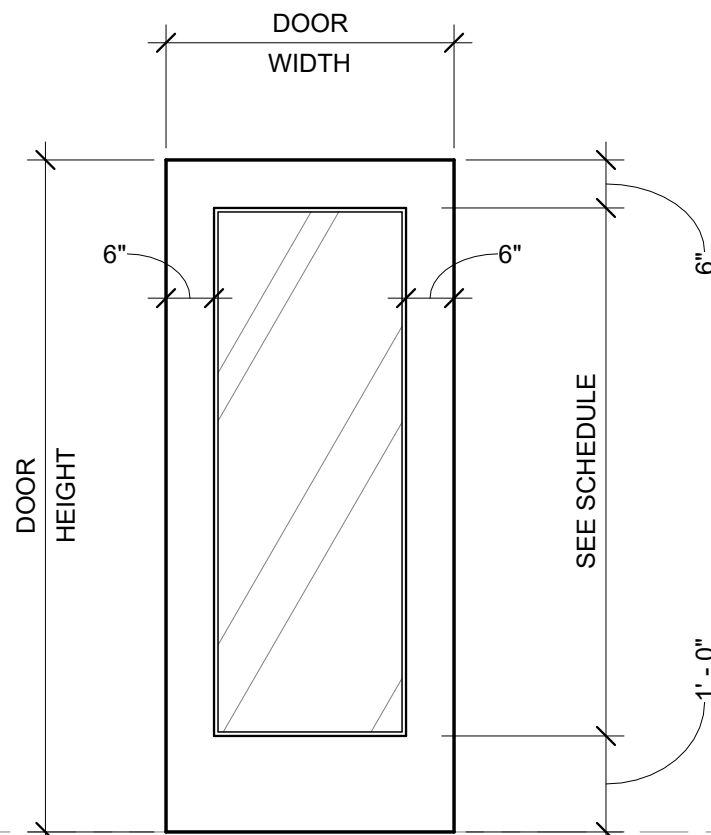


F3



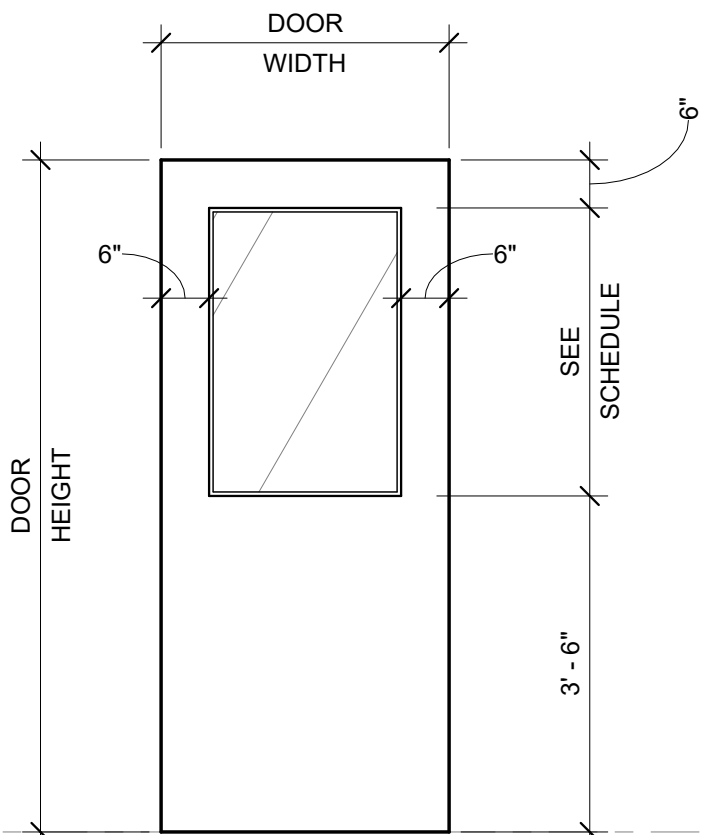
D1

SOLID DOOR



D2

FULL VISION GLASS



D3

HALF VISION GLASS

NOTES:
- FIELD VERIFY ALL OPENING DIMENSIONS PRIOR TO FABRICATING DOORS, FRAMES, AND WINDOWS.
- DOOR CONFIGURATION SHOWN FOR REFERENCE ONLY, MANUFACTURER LAYOUT MAY VARY (VERIFY)
- GLASS TYPES INDICATED ARE TYPICAL. ALL NON-TYPICAL INSTANCES ARE NOTED ON THE DOOR SCHEDULE.





CONSULTANT:

NOTES:
90% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Community Building
5872 NE CENTRAL AVE, FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW N. COOPER
46485 02/03/2023
LICENSE # DATE

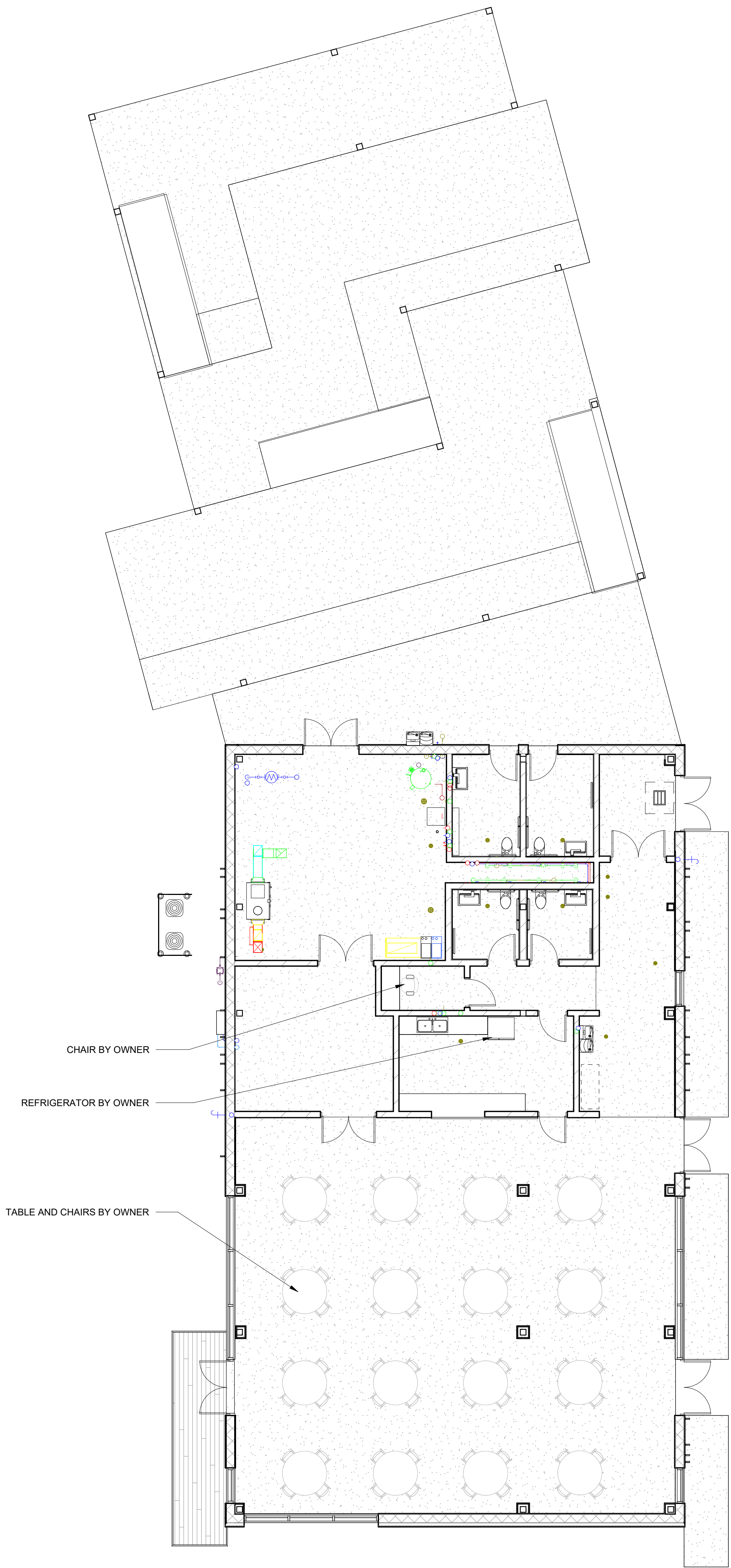
SHEET NAME:
FURNITURE AND EQUIPMENT PLAN

REVISIONS:		
No.	Date	Description

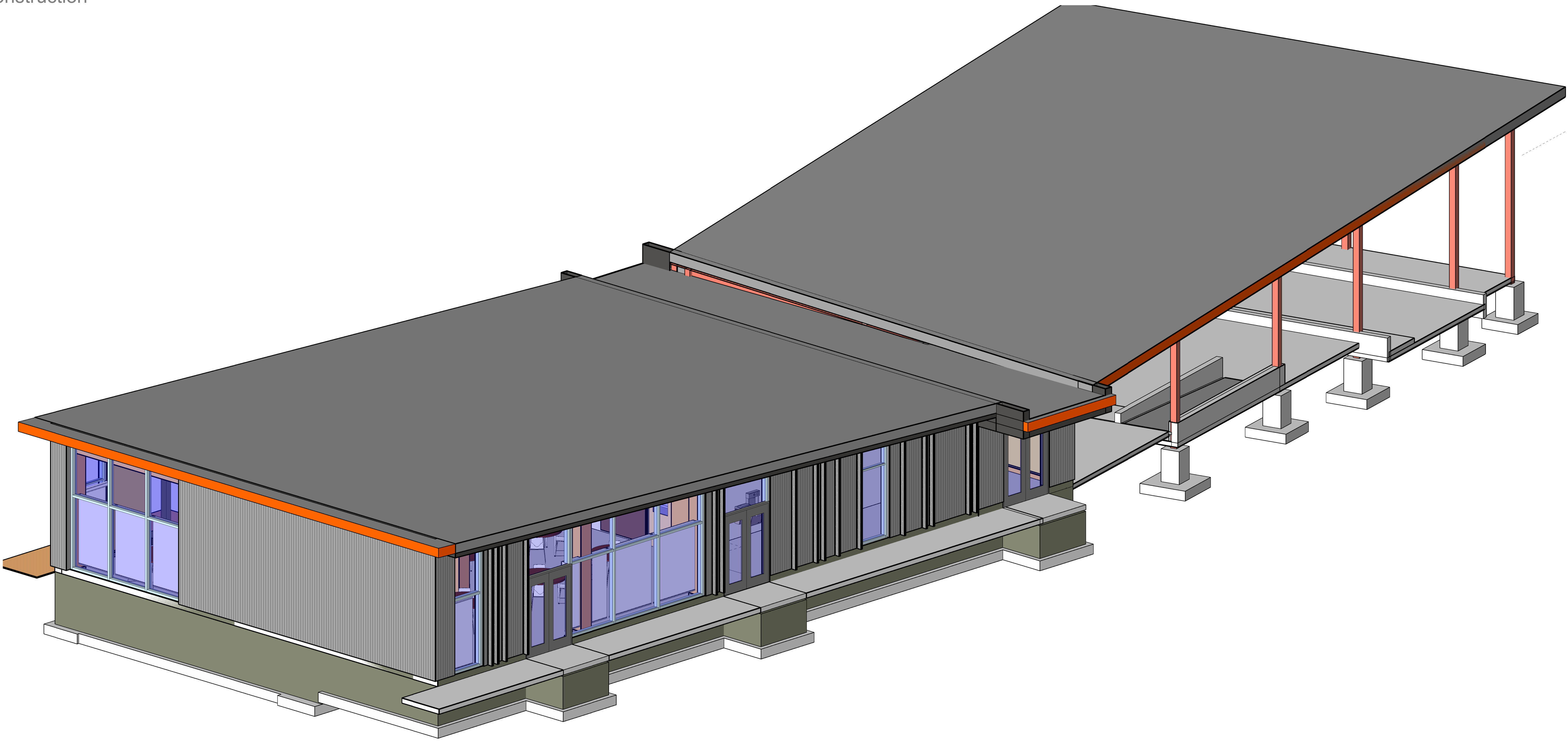
22-25 02/03/2023
PROJECT NUMBER DATE
MMP ANC
DRAWN BY CHECKED BY

SHEET NO:

A901



1 FURNITURE PLAN
1/8" = 1'-0" NORTH

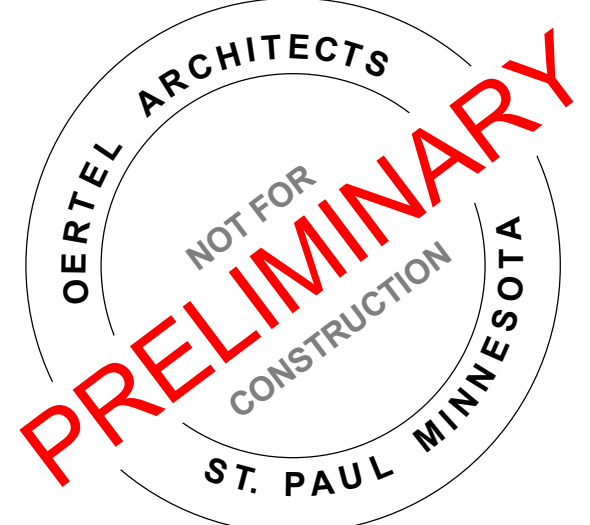


SHEET LIST	
SHEET #	SHEET NAME
S001	LEGEND SHEET
S002	GENERAL STRUCTURAL NOTES
S201	FOUNDATION PLAN
S202	ROOF FRAMING PLAN
S401	TYPICAL CONCRETE SCHEDULES AND DETAILS
S402	TYPICAL CMU SCHEDULES AND DETAILS
S403	TYPICAL STEEL SCHEDULES AND DETAILS
S501	FOUNDATION AND SLAB ON GRADE DETAILS
S701	FRAMING DETAILS



CONSULTANT:
MEYER | BORGMAN | JOHNSON
STRUCTURAL DESIGN + ENGINEERING
TEL: 612.338.0713 510 MARQUETTE AVE. S.
FAX: 612.337.3351 SUITE 800
www.rbjeng.com MINNEAPOLIS, MN 55402 SEE STRUCTURE

NOTES:
70% CONSTRUCTION DOCUMENTS



1 BUILDING PERSPECTIVE FOR REFERENCE ONLY

STRUCTURAL ABBREVIATIONS:

A	H	Q
ADDL ADJ ALT ALUM ARCH B	ADDITIONAL ADJACENT ALTERNATE ALUMINUM ANCHOR ROD ARCHITECT	QTY QUANTITY
BDE BFE BM BOT BP BTWN	BOTTOM OF DECK ELEVATION BOTTOM OF FOOTING ELEVATION BEAM BOTTOM BEARING PLATE / BASE PLATE BOTTOM REINFORCING BETWEEN	R RD REF REOF REV RO RSS RTU
C	CANTILEVER CFS CGS CIP CJP CLR CMU COL CONC CONN(S) CONST CONT D	RADIUS ROOF DRAIN REFERENCE REINFORCEMENT/REINFORCING REQUIRED REVISION ROUGH OPENING RUGGED STRUCTURAL SCREW ROOF TOP UNIT
db DBA DBL DEG DEMO DI DIA DNG DIM DL	NAIL DIAMETER BAR DIAMETER DEFORMED BAR ANCHOR DOUBLE DEGREE DEMOLITION DOUGLAS FIR-LARCH DIAMETER DIAGONAL DIMENSION DEAD LOAD	S SB SC SCHD SER SF SIM SL SOG SPA SPEC SPF SS SSLT STD STIFF STL STRUCT SYM SYP T
EA EF ELEC ELEV EV EMBED EQ EQUIP ES EW E-W (E) EXP	EACH EACH FACE ELEVATION ELECTRICAL ELEVATOR EXPANSION JOINT EMBEDMENT EQUAL EQUIPMENT EACH SIDE EACH WAY EAST - WEST DIRECTION EXISTING EXPANSION	TG TBE TDE TEMP TFE TGBE TSE TSCPE TPE TR TRANS TSE TSE TSE TWE TYP
FDN FD FRE FLR FS FT FTG FV G	FOUNDATION FLOOR DRAIN FINISHED FLOOR ELEVATION FLOOR FOOTING STEP FEET FOOTING FIELD VERIFY	UND URM V VERT W
GA GALV GB GC GLB GR GSN GWB	GAGE/GAUGE GALVANIZED GRADE BEAM GENERAL CONTRACTOR GLUE LAMINATED BEAM GRADE GENERAL STRUCTURAL NOTES GYPSUM WALL BOARD	W/ W/O WD WF WL WP WT WWF
		W/ W/O WD WF WL WP WT WWF

MARKS AND SYMBOLS LEGEND:

MARKS:

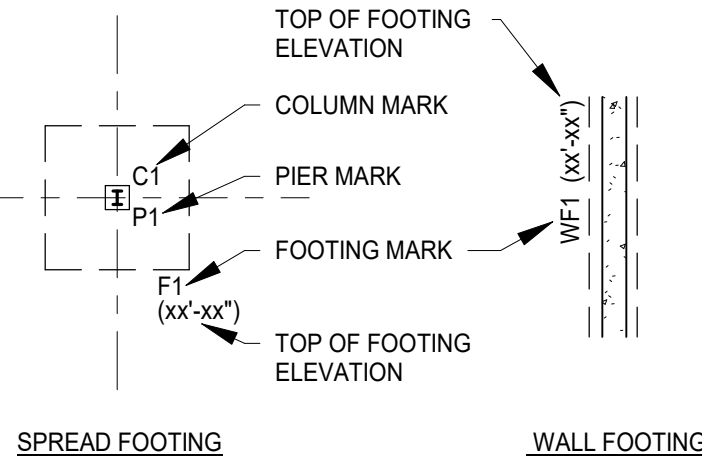
B1001	CONCRETE BEAM MARK NUMBER
B1001-PT	POST TENSIONED CONCRETE BEAM MARK NUMBER
BP1	BEARING / BASE PLATE MARK NUMBER
BRF1	BRACE FRAME MARK NUMBER
BR1	MILD STEEL BOTTOM REINFORCING MARK NUMBER
C1	COLUMN MARK NUMBER
CC1	CONCRETE COLUMN MARK NUMBER
CW1	CONCRETE WALL NUMBER
D1	STEEL DECK MARK NUMBER
DC1	DROP CAPITAL MARK NUMBER
DP1	DRILLED PIER MARK NUMBER
DPC1	DRILLED PIER CAP NUMBER
EP1	EMBEDDED PLATE MARK NUMBER
F1	SPREAD FOOTING MARK NUMBER
GB1	GRADE BEAM MARK NUMBER
H1	HEADER MARK NUMBER
HCP	HOLLOW CORE PLANK
HD1	HOLD DOWN MARK NUMBER
J10	JOIST MARK NUMBER
L1	LINTEL MARK NUMBER
LC1	LIGHT GAGE COLUMN MARK NUMBER
MC1	MASONRY COLUMN MARK NUMBER
MF1	MOMENT FRAME MARK NUMBER
MW1	MASONRY WALL NUMBER
P1	PIER MARK NUMBER
PC1	PILE CAP MARK NUMBER
RD1	ROOF DECK MARK NUMBER
S1	SLAB MARK NUMBER
SC1	STEEL COLUMN MARK NUMBER
SR1	STUD RAIL REINFORCING MARK NUMBER
SW1	SHEAR WALL MARK NUMBER
T1	TRUSS MARK NUMBER
TR1	MILD STEEL TOP REINFORCING MARK NUMBER
W1	WALL MARK NUMBER
WC1	WOOD COLUMN MARK NUMBER
WF1	WALL FOOTING MARK NUMBER
WO1	WEB OPENING

GENERAL SYMBOLS:

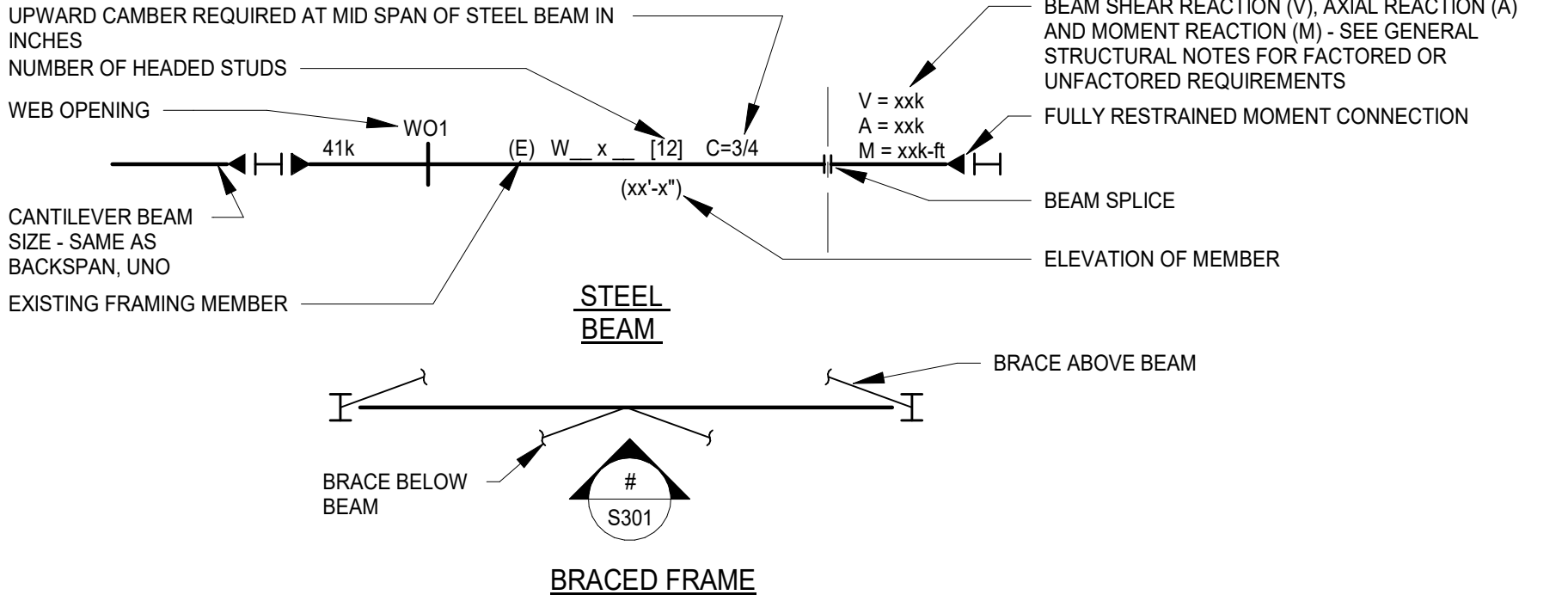
---	APPROXIMATE LOCATION OF DRAIN TILE
---	MATCH LINE
---	LINE OF DEMOLITION
(?/?)	SLAB STEP LOCATION WITH ELEVATIONS
---	SLAB STEP LOCATION
---	CHANGE IN SLAB SLOPE
---	CHANGE IN SLAB THICKNESS
1	KEYNOTE MARK NUMBER
?	NEW BUILDING GRID LINE
?	EXISTING BUILDING GRID LINE
---	ELEVATION MARKER
---	SHADED AREA INDICATES CUT THROUGH EXISTING CONSTRUCTION
---	SHADED AREA INDICATES PROJECTION OF EXISTING CONSTRUCTION
W1	WALL MARK NUMBER OR WALL TYPE
---	APPROXIMATE LOCATION OF UTILITY PIPE PENETRATION THROUGH FOUNDATION WALL
---	FOOTING STEP LOCATION
---	APPROXIMATE LOCATION OF SOIL BORING
---	TENSION / COMPRESSION PILE
---	TEST PILE
---	SPAN DIRECTION OF ELEMENT
---	EXTENT OF ELEMENT
---	CONTINUOUS EXTENT OF ELEMENT
# Sxxx	DETAIL CALLOUT
# Sxxx	ELEVATION CALLOUT

PLAN SYMBOLS LEGEND:

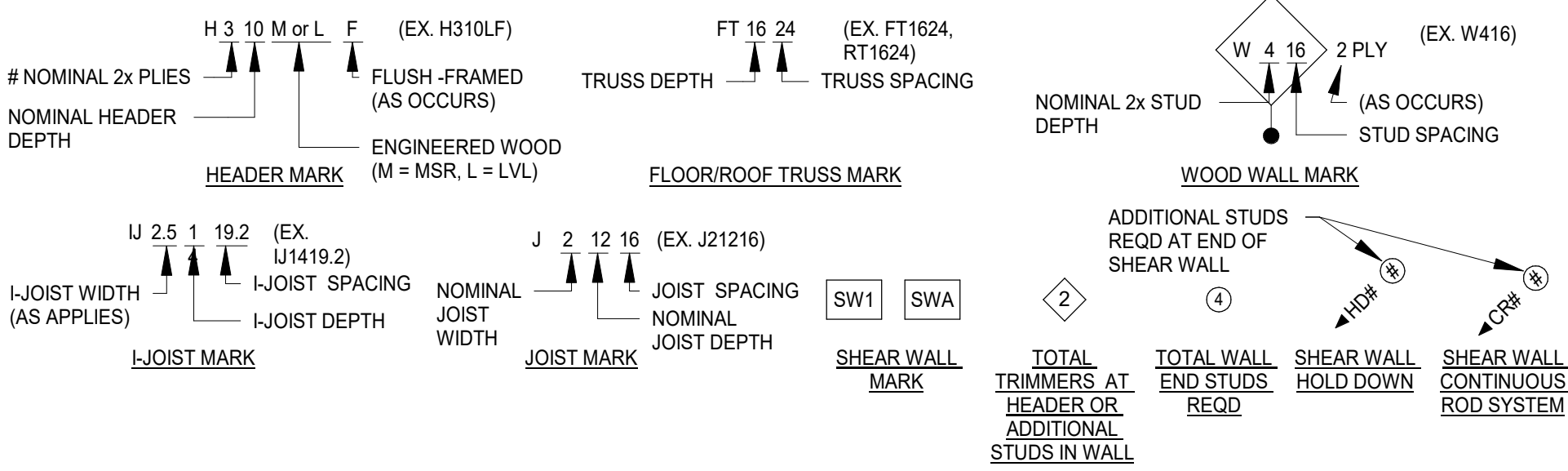
FOUNDATION SYSTEM:



STEEL FRAMING SYSTEM:



WOOD FRAMING SYSTEM:



PROJECT NAME: Moore Lake Park Building

City of Fridley

5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW REBERG

4 LICENSE # DATE

SHEET NAME:

LEGEND SHEET

REVISIONS:		
No.	Date	Description

22-25 Designer

PROJECT NUMBER DATE

JJH ASR

DRAWN BY CHECKED BY

SHEET NO:

S001

TYPICAL NOTES:
These notes specify the requirements for the design represented in these documents. The construction and materials shall comply with all the pertinent codes and references, plans, and details, including (but not limited to) those shown in architectural, civil, mechanical and electrical drawings.

The Contractor shall verify all dimensions and existing conditions in the field that affect construction prior to commencing work on the affected element or shop drawing submittals. Resolve any discrepancies with the Architect prior to construction.

The contract structural drawings and specifications represent the completed structure. The Contractor is responsible for bracing and shoring (without overstressing) all structural elements as necessary at any stage of construction until completion of the project. The Structural Engineer of Record is not responsible for the Contractor's means, methods, sequences or procedures of construction. Contractor shall recognize and consider effects of thermal movements of structural elements during construction period.

The Contractor is solely responsible for site safety including all temporary precautionary measures and safety programs. Site observation visits by the Structural Engineer of Record do not include review of the contractor's safety precautions.

Refer to architectural, mechanical and electrical drawings for locations, elevations, dimensions, and details of sleeves, inserts, openings, recesses, curbs, housekeeping pads, etc. that are not shown on the structural drawings and do not damage structural members.

Information shown in the structural drawings regarding existing conditions represents the current and general field conditions related to the new work, to the best of our knowledge. Report all discrepancies (unforeseen conditions) to the Architect for resolution prior to performing related new work.

Requests for information shall be submitted in writing and shall reference the part of the construction documents that is in question.

SPECIAL INSPECTIONS:
Special inspections required by the building code and these documents shall be provided in addition to inspections to be performed by the city in which the project is located.

Contractor shall read and understand their duties in the specification and under the building code for special inspections and coordinate as necessary the Owner's responsibilities.

The Special Inspectors shall be provided by the Owner and shall use current structural drawings incorporating all revisions and approved shop drawings.

Special inspection reports are to be submitted promptly and within 24 hours to the Structural Engineer of Record and Contractor from the time when inspections are performed.

The General Contractor shall provide timely notice (minimum 24 hours) to the Special Inspector and sufficient time for the Inspector to perform their inspection.

For a schedule of Special Structural Inspections required by the building code for this project, see the Special Inspection Schedule.

STRUCTURAL TEST AND SPECIAL INSPECTION SCHEDULE:

	Continuous	Periodic	None
1. STEEL CONSTRUCTION: Section 1705.2.1 and Table 1705.2.2			
1.1 Fabricator Documentation - Note (1)	☐	☒	☐
1.2 High-Strength Bolted-Bearing Material	☐	☒	☐
1.3 High-Strength Bolted-Slip-Critical and Material	☐	☒	☐
1.4 Steel Material, Seismic - Section 1705.11.1	☐	☒	☐
1.5 Welds: Full and Part Pen and Multi-Pass Fillet	☐	☒	☐
1.6 Welds: Single Pass Fillet for All Sections	☐	☒	☐
1.7 Frame Joint Detail Compliance	☐	☒	☐
2. CONCRETE CONSTRUCTION: Section 1705.3 Table 1705.3			
2.1 Member Shape and Size Compliance in Formwork	☐	☒	☐
2.2 Reinf Steel Size, Quantity and Placement	☐	☒	☐
2.3 Weldability of Reinforcing and Welds	☐	☒	☐
2.4 Anchors in Concrete	☐	☒	☐
2.5 Use of Required Mix Design	☐	☒	☐
2.6 Sample for Specimens and Tests	☐	☒	☐
2.7 Placement of CIP Concrete	☐	☒	☐
2.8 Curing Compliance	☐	☒	☐
3. MASONRY CONSTRUCTION: Section 1705.4 TMS 402/ACI 530/ASCE 5; Note 2			
3.1 Level B; Section 1.16.2 Table 1.16.2			
3.1.1 Grout Placement and Sampling	☒	☐	☐
3.1.2 Welding Reinforcing	☐	☒	☐
3.1.3 Other Inspection Tasks	☐	☒	☐
4. SOILS: Section 1705.6 and Table 1705.6			
4.1 Bearing Material, Capacity and Depth	☒	☐	☐
4.2 Compacted Fill Compliance With Soils Report	☒	☐	☐

- Notes:
- When the fabricator does not meet the requirements of 1704.2.5.2 and where applicable the exception in 1705.2, Special Inspection in the Fabricator's shop is required.
 - Empirically designed masonry is excluded.

SHOP DRAWINGS:
Submit shop drawing schedule with construction schedule that includes consideration for review period. See specification for additional information.

General contractor shall submit shop drawings in digital format for structural review. Digital drawings shall meet the following requirements.

- All pages are native .pdf files, rotated, printed to scale with searchable text.
- All transmittals shall be located as the first page of the submittal or as a separate file within one digital package.
- Contractor digital review comments and their digital stamp shall be attached. Our review will not occur until the contractor has reviewed, coordinated with other trades and provided shop stamp.
- MBJ will mark-up the digital set in red and return a digital file via email, ftp site or other means.

DEFERRED SUBMITTALS:

The following items shall be issued as deferred submittals per IBC:

- Cold-Formed Steel Framing
- Metal Stairs, Handrails and Guardrails
- Wood Joist
- Glued/Laminated Wood Construction
- Curtain Wall Framing

All engineering design provided by others and submitted for review shall bear the certification stamp and signature of a qualified Professional Engineer who is licensed in the state where the project is located. Under no circumstances will MJB review shop drawings that are considered to be scanned/copied construction document submittals. The Detailer shall produce and submit original documents for review.

All items issued as deferred submittals shall be issued a minimum of 30 days prior to installation and shall not be installed until their design and submittal documents have been reviewed for general conformance to the drawings by the General Contractor, the Structural Engineer of Record and the Building Official. A copy of the deferred submittal shall be forwarded to the Building Official after the Structural Engineer of Record has reviewed the documents and prior to the erection of the deferred submittal items.

DESIGN CODES AND STANDARDS:

2018 International Building Code, as amended and adopted by the *Minnesota State Building Code*.

MATERIAL PROPERTIES:

Reinforcing Steel (Fy):		
Typical	60,000 psi	ASTM A615 Grade 60
Weldable	60,000 psi	ASTM A706 Grade 60
Cast-in-Place Concrete (F _c) at 28 days, u.n.o.:		
Strength Material (CLSM)	50 psi	Minimum
Footings	4,000 psi	
Piers and Walls (non-shear)	4,000 psi	
Slabs on Grade	4,000 psi	
Exterior Concrete	4,500 psi w/ air entrainment	
All Concrete not otherwise noted	4,000 psi	

Concrete Masonry- Prism (F _m):		
F _m	2,000 psi	
Typical Units:	2,800 psi	
Masonry Grout	2,000 psi	
Masonry Mortar	ASTM C270, Type S	

Structural Steel (Fy):		
Wide Flanges:	50,000 psi	ASTM A992
Angles, Channels, Plates, and Bars	36,000 psi	ASTM A36
Rectangular HSS	46,000 psi	ASTM A500, Grade B
Round HSS	42,000 psi	ASTM A500, Grade B
Steel Pipe	35,000 psi	ASTM A53, Grade B

Structural Fasteners:		
Typical High-Strength Bolts	120,000 psi	ASTM F3125 Grade A325
Twist-Off Tension Control Bolts	120,000 psi	ASTM F3125 Grade 1852, Type 1
High-Strength Bolts where noted	150,000 psi	ASTM F3125 Grade A490
Carbon Steel, Threaded Rods	36,000 psi	ASTM A36
Threaded Rods, Grade 87 where noted	125,000 psi	ASTM A193
Stainless Steel, Threaded Rods	85,000 psi	ASTM F593
Anchor Rods, Grade 36 U.N.O.	36,000 psi	ASTM F1554
Anchor Rods, Grade 55 where noted	55,000 psi	ASTM F1554
Anchor Rods Grade 105 where noted	105,000 psi	ASTM F1554
Direct Tension Indicator Washers where noted	ASTM F959	

SAWN LUMBER:		
Spruce-Pine-Fir (SPF) No. 2 or better: (Joists, Headers, Studs and Built-up Posts)	Fb 875 psi Fc 1150 psi parallel to grain Ft 425 psi perpendicular to grain E 1,400,000 psi	

STRUCTURAL COMPOSITE LUMBER:		
Spruce-Pine-Fir (SPF) No. 2 or better: (Studs and Built-up Posts) (Joists, and Headers)	Fb 875 psi Fc 1150 psi parallel to grain Ft 425 psi perpendicular to grain E 1,400,000 psi	

Southern Yellow Pine (SYP) No. 2 or better: (Preservative Treated Wood)	Fb 1500 psi Ft 175 psi Fc 1600 psi parallel to grain Ft 565 psi perpendicular to grain E 1,600,000 psi	
---	--	--

Southern Yellow Pine (SYP): (Machine Stress Rated (MSR)):	Fb 2400 psi Ft 190 psi Fc 1975 psi parallel to grain Ft 805 psi perpendicular to grain E 2,000,000 psi	
---	--	--

Douglas Fir-Larch (DFL) No. 1 or better: (Heavy Timber, full sawn) (Beams and columns wider than 5")	Fb 1200 psi Fv 170 psi Fc 1000 psi parallel to grain Ft 625psi perpendicular to grain Ft 825 psi E 1,600,000 psi	
--	---	--

Cedar No. 2 grade: (Wood Decks and Railings)	Fb 1050 psi parallel to grain Fv 75 psi perpendicular to grain E 1,000,000 psi	
--	--	--

STRUCTURAL COMPOSITE LUMBER:		
Laminated Veneer Lumber (LVL): (Beams and Headers) (1 3/4" x Depth)	Fb 2900 psi Fv 285 psi Fc 750 psi perpendicular to grain E 2,000,000 psi	

Parallel Strand Lumber (PSL): (Columns and Posts)	Fb 2400 psi tabulated Fc 2500 psi parallel to grain E 1,800,000 psi	
---	---	--

Laminated Strand Lumber (LSL): (Rim Board)	Fb 1700 psi Fv 410 psi Fc 750 psi perpendicular to grain E 1,350,000 psi	
--	---	--

Oriented Strand Board (OSB): (APA Rated Rim Board)	Fbe 600 psi Fve 270 psi Fce 550 psi perpendicular to grain E 550,000 psi	
--	---	--

DESIGN LOADS:		
LATERAL LOADS:		
Risk Category:	II	
Wind Loads:		
Primary Frame Wind Data:	V ult = 115 mph	
Basic Wind Speed:		
Exposure Category:	C	
Internal Pressure Coefficient (C _{pi}):	+0.18 or -0.18	

Components and Cladding Wind Loads:
Exterior Component/Cladding: Supplier to develop based on code criteria and indicate on shop drawings.

Seismic Loads:		
Primary Seismic Data:	No design required	

GRAVITY LOADS:		
Roof Load:		
Floor:	psf	

Snow Load:		
Ground Snow Load, P _g :	50 psf	
Flat-Roof Snow Load, P _f :	35 psf	
Snow Exposure Factor, C _e :	1.0	
Snow Load Importance Factor, I:	1.0	
Thermal Factor, C _t :	Refer to plan, U.N.O.	
Unbalanced/Drift Snow Load:		

Roof Live Load:		
Live Load, (reducible):	20 psf	
Net Uplift for Joist Design:	See roof plan notes	
Mechanical Room Hanging Loads:	20 psf	
Mechanical and Electrical Equipment Units:	Refer to drawings, for the units' locations, sizes, and weights. This project is not designed for future units.	
Future Mechanical and Electrical Units:	Refer to drawings, for the future units' locations, sizes, and weights used for framing design.	

FOUNDATIONS:
Refer to geotechnical report number P-0010684 by American Engineering Testing, dated April 5, 2022.

The Contractor shall verify the location of all existing and new underground utilities and tanks prior to beginning excavation.

For underground utilities adjacent to foundations and through foundations reference drawings for typical detail showing step footings below utilities as required to avoid undermining of structure by utilities.

CONVENTIONAL FOOTINGS:
Footings are designed for a maximum allowable soil bearing pressure of 2,500 pounds per square foot on undisturbed natural soil or compacted engineered fill. Soil bearing pressure is to be verified in the field through construction by a qualified Geotechnical Engineer.

All topsoil, fill, organic, and/or other unsuitable bearing material shall be removed below the footings and within the building area to the depths indicated in the geotechnical engineering report and extent of removal shall be field verified by the Geotechnical Engineer.

All excavations shall be observed by a qualified Geotechnical Engineer to verify removal of all unsuitable material and confirm the proper preparation of bearing conditions. Rock excavation for individual footings is not expected to exceed five foot depth, U.N.O. No mass excavation is anticipated. Blasting is not permitted.

For footings that do not bear on natural undisturbed soil, extend engineered fill laterally beyond bottom edge of footing per recommendations in the geotechnical report.

Foundation and retaining walls shall be back filled with free draining fill approved by the Geotechnical Engineer. Provide drainage board and perforated pipe as required by the contract documents and verify with the Architect and Civil Engineer.

Backfill equally on both sides of foundation walls to prevent overturning or lateral wall movement, or brace as necessary.

For stepping of wall footings reference drawings for detail.

REINFORCED CONCRETE:
The detailing, fabrication and erection of all reinforcing shall be done in accordance with the latest edition of ACI-315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures and ACI-318, "Building Code Requirements for Structural Concrete."

All reinforcing bars are deformed and continuous, unless noted otherwise. Refer to drawings for reinforcing lap length schedule.

Provide suitable wire spacings, chairs, etc. for support of reinforcing steel in proper position while placing concrete. All bars shall be tied to prevent displacement while placing concrete. All chairs and slab bolsters shall be plastic or steel with plastic tips. When reinforcing steel is epoxy coated, all chairs and slab bolsters shall be epoxy coated or plastic and all support bars shall be epoxy coated. Chairs are to be stable and resist tipping.

The fabricator shall submit a complete list of accessories and placing details with the shop drawings.

Locate vertical construction joints in beams and slabs at central one third of span. Refer to drawings for details. Submit proposed construction joint locations to the Structural Engineer of Record for review prior to placement of concrete. Where new concrete is placed against existing concrete, the existing concrete shall be roughened to a minimum 1/4" amplitude.

Aluminum conduit, aluminum sleeves and aluminum embeds are not permitted in concrete.

Provide a 3/4 inch chamfer for all exposed concrete corners. See architectural drawings for details and additional requirements.

Calcium chloride is not permitted as a concrete additive.

Concrete Cover on Reinforcing:

Slab on Grade:	upper third of slab
Footings:	3" clear bottom and sides 2" clear top
Walls:	#5 and smaller 1 1/2" clear earth or weather face #6 and greater 2" clear earth or weather face 3/4" interior face

CONCRETE SLABS ON GRADE:
Slabs on grade shall be placed in lane fashion.

The control or construction joints shall be placed as shown on the drawings. The joints shall align with the column grids and be spaced as noted below:

Exterior slabs	24 times slab thickness, maximum;
Interior slabs	36 times slab thickness, maximum;
Interior slabs with carpeting	48 times slab thickness, maximum.

The panels formed by control or construction joints shall not be "L" shaped, and a rectangular panel's aspect ratio shall not exceed 1.5.

Refer to the drawings for the typical slab on grade construction and saw cut control joint detail. Control and construction joints must be continuous and not offset.

Refer to drawings for detail of isolation diamonds or circles at columns.

Refer to drawings for reinforcing at re-entrant corners. Bend bars as necessary at obstructions.

Refer to the specification for the existence, type, and thickness of interior ground vapor retarder. Locate a vapor retarder directly beneath the slab on grade on top of a 6 inch compactable granular base. Refer to the specification for requirements for the compactable granular base.

Mechanically vibrated concrete around trench drains, floor ducts, construction joint dowels, loading docks, architectural features and other embedded items.

Refer to the specification for curing in pre-pour meeting.

Refer to the specification for acceptable methods of curing the concrete.

Refer to flooring manufacturer's specification for levelness, flatness and curing of concrete slabs on grade to receive special architectural floor finishes.

Where slab demolition occurs in slabs on grade, curbs and sidewalk areas, typically saw cut slabs for new work to the widths indicated on plan. Where such saw cuts would occur within 3 feet or less of an existing control or construction joint, remove slabs to the nearest existing control or construction joint. Dowel edges as indicated for typical slabs in other areas. Provide slab control joints in new slabs at locations to match existing slab control joints, and also a spacing to keep slab panel aspect ratios as square as possible, but at a spacing not to exceed 10'-0". Slab finishes shall match original existing finishes of surrounding slabs, subject to review of Architect.

REINFORCED MASONRY:
Masonry work shall conform to all requirements of ACI 530, "Building Code Requirements for Masonry Structures."

All masonry units shall be placed in running bond fashion. Corners shall have a standard bond by overlapping units.

Special shapes shall be provided for jambs, columns, pilasters, control joints, corners, and lintels.

All masonry walls shall have horizontal joint reinforcing spaced at 16" oc. Horizontal joint reinforcing shall be truss style and fabricated with galvanized nine-gauge wire and shall include corner and intersecting wall pieces. Provide minimum 6" laps at all splices.

Vertical reinforcing shall be held in place by rebar positioners, cross-ties, chairs, or tying to every other layer of horizontal reinforcing steel. Refer to the detail in the drawings for vertical reinforcing bar location in a core.

Provide concrete cover of minimum 1/2" to face shell.

Refer to detail in the drawings for reinforcing bar lap lengths.

Extend vertical reinforcing from footings to 2" clear top of wall or to beam bearing. Extend vertical reinforcing into the next level of construction and lap in accordance with the lap schedule.

When typical vertical wall reinforcing is interrupted by long wall openings, provide typical vertical wall reinforcing above and below opening, and extend into horizontal bond beams. Refer to the schedule on the drawings, for masonry wall opening lintels and jamb reinforcing.

Provide vertical reinforcing at the ends of walls and at wall intersections to match specified reinforcing. Run reinforcing full height of walls.

All masonry units shall be placed with full face shell mortar coverage on horizontal and vertical face shells. Webs shall also have full mortar coverage around all grouted cells.

Fill block core at vertical reinforcing (8" minimum length along wall) with concrete grout. Filling cores with mortar is not allowed. Vibrate in place. Rodding and puddling are not allowed.

Maximum lift height is four feet. For concrete core fill pour height up to maximum 8'-0", provide clearouts if pour height exceeds 5'-0".

Masonry cement mortar is not allowed.

Calcium chloride or admixtures containing chloride shall not be used in mortar or grout.

For reinforced masonry bond beams, provide bent corner bars at corners and intersections that match reinforcing. Step bond beams as necessary to match roof slopes. Lap reinforcing bars per schedule.

For construction of masonry control joints refer to detail in drawings.

Unless noted otherwise on the drawings place control joints in masonry walls such that no straight run of wall exceeds 24'-0" and within 4'-0" of corners. Do not place control joints within 48 inches of a masonry opening jamb or a steel bearing plate.

Place bond beam reinforcing continuously through control joints. Do not splice bond beam reinforcing within 6'-0" of a control joint.

Provide bond beam with reinforcing at all roof lines, and top of walls. Refer to details in the drawings.

Grout below steel bearing plate and refer to the drawings for additional information.

Refer to drawings for reinforcing schedule, top of wall bracing, thickened bearing slab and lintel schedule for non-bearing masonry walls. Refer to Architectural drawings for location and extent.

MASONRY BEAMS (HIGH-LOW BOND BEAMS):
For all masonry beams use lintel blocks.

Masonry beams are to bear 8" minimum at jambs. Extend vertical reinforcing through masonry beam bearing.

Extend horizontal reinforcing full length. Refer to detail in the drawings for stirrup configuration.

Grout masonry beams solid. Mechanically vibrate grout in place.

For brick angle supported by masonry refer to detail in the drawings.

POST-INSTALLED ANCHORS:
Post installed anchors to be installed in concrete base material shall have current ICC approval for use in both cracked and un-cracked concrete in accordance with ACI 308.2, ACI 308.4, ICC-ES AC208 and ICC-ES AC308.

Post-installed anchors to be installed in masonry base material shall have a current ICC approval for use in uncracked, fully grouted concrete masonry unit construction in accordance with ICC-ES AC301, ICC-ES AC308 and ICC-ES AC108. Contact Engineer of Record for anchorage to hollow masonry or unreinforced clay masonry not covered by this section.

Post-installed anchors shall only be used where specified on the construction documents. The Contractor shall obtain approval from the Engineer of Record prior to installing post-installed anchors in place of missing or misplaced cast-in-place anchors. Submit a work plan including proposed products for approval prior to commencing corrective work.

Post-installed adhesive anchors shall not be used for fire rated components supporting gravity loads.

Verify that supporting substrate and environmental conditions are consistent with the manufacturer's installation instructions and the ICC-ES report.

Post-installed anchors shall be installed in accordance with the manufacturer's installation instructions and the ICC-ES report, including hole drilling and cleaning.

The general contractor shall engage a testing company to locate existing reinforcing and other embedded items by non-destructive means (GPR, pascometer or other approved means) as necessary to accurately locate existing elements prior to beginning drilling operations. Do not cut or damage existing reinforcing or other embedded items unless explicitly approved by the Engineer of Record. Notify the EOR if there is a conflict between the anchor location and an embedded item.

Pre-approved products for post-installed anchors are listed below. See specifications for additional pre-approved products and substitution request requirements.

The following wedge anchor products are pre-approved:		
Base Material	Product	ICC-ES Report
Concrete	Hilti Kwik Bolt TZ	ESR-1917
Concrete	Simpson Strong Bolt	ESR-3037
Concrete	Dewalt Power Stud SD2	ESR-2602
Masonry (*)	Hilti Kwik Bolt 3	ESR-1385
Masonry (*)	Simpson Wedge-All	ESR-1386
Masonry (*)	Dewalt Power Stud+ SD1	ESR-2969

The following sleeve anchor products are pre-approved:		
Base Material	Product	ICC-ES Report
Concrete	Hilti HSL-3	ESR-1545
Concrete	Dewalt Power Bolt +	ESR-3260

The following screw anchor products are pre-approved:		
Base Material	Product	ICC-ES Report
Concrete	Hilti HUS-EZ	ESR-3027
Concrete	Simpson DEWALT HD	ESR-2713
Concrete	Dewalt Screw Bolt+	ESR-3889
Masonry (*)	Hilti HUS-EZ	ESR-3056
Masonry (**)	Simpson Titen HD	ESR-1056
Masonry (*)	Dewalt Screw Bolt+	ESR-4042

The following adhesive anchor products are pre-approved:		
Base Material	Product	ICC-ES Report
Concrete	Hilti HIT HY 200	ESR-3187
Concrete	Hilti HIT HY 100	ESR-3474
Concrete	Hilti HIT RE 500-V3	ESR-3814
Concrete	Simpson AT XP	JAPMO ER-0263
Concrete	Dewalt AC100+ Gold	ESR-2582
Masonry (**)	Hilti HIT HY 270	ESR-1434144
Masonry (**)	Simpson AT XP	JAPMO ER-0281

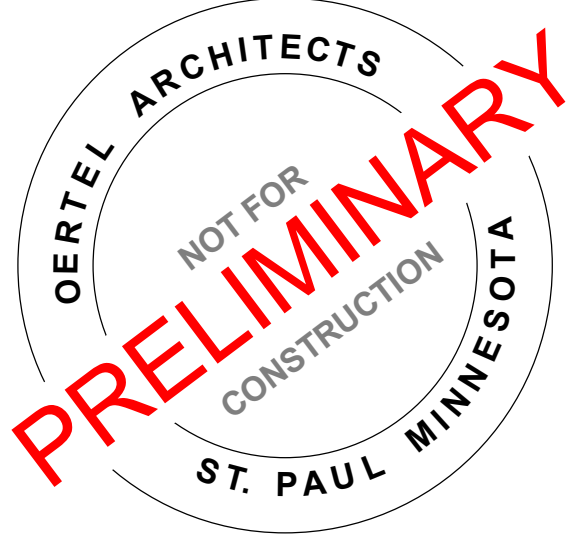
The following power-actuated fastener products are pre-approved:

<u>Base Material</u>	<u>Product</u>	<u>ICC-ES Report</u>
Steel/Concrete/Masonry/Wood	Hilti Low Velocity	ESR-1663
Steel/Concrete/Masonry/Wood	Hilti X-U	ESR-2269
Steel/Concrete/Masonry/Wood	Simpson Powder-Actuated	ESR-2138
Steel/Concrete/Masonry/Wood	Dewalt Power-Driven	ESR-2024
Steel/Concrete/Masonry/Wood	Dewalt Trak-It	ESR-3275



CONSULTANT:
MEYER | BORGMAN | JOHNSON
STRUCTURAL DESIGN + ENGINEERING
TEL: 612.238.0712 510 MARQUETTE AVE. S.
FAX: 612.237.5251 SUITE 800
www.rdgeng.com MINNEAPOLIS, MN 55402 SEE STRUCTURE

NOTES:
70% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Building
City of Fridley
5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW REBERG

4
LICENSE # DATE

SHEET NAME:

FOUNDATION PLAN

REVISIONS:		
No.	Date	Description

22-25 Designer
PROJECT NUMBER DATE
J.J.H. ASR
DRAWN BY CHECKED BY

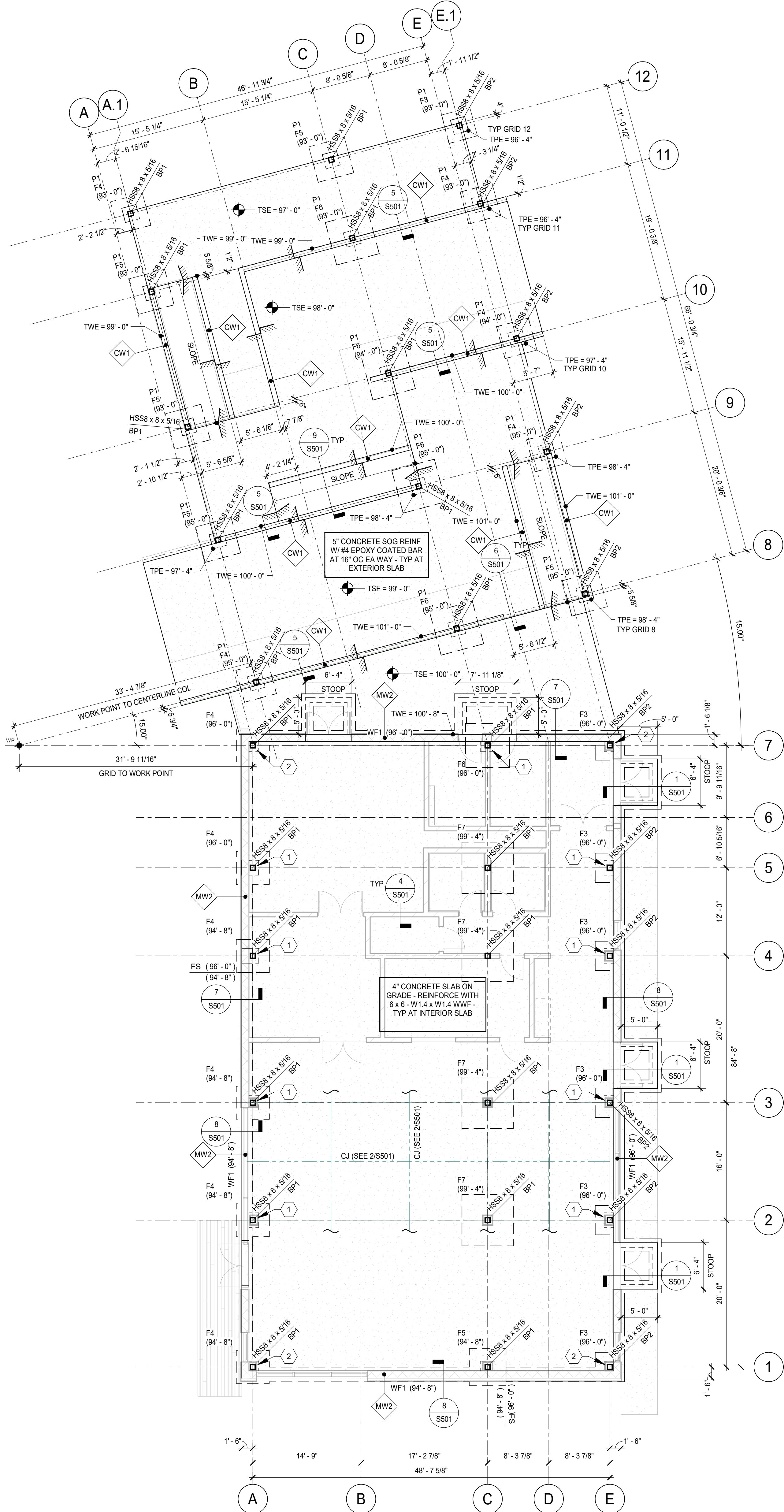
SHEET NO:

S201

- REFERENCE NOTES:
- SEE SHEET S001 FOR SHEET INDEX, TYPICAL ABBREVIATIONS AND LEGENDS.
 - SEE SHEET S002 FOR GENERAL STRUCTURAL NOTES.
 - SEE SHEET S301 FOR BRACE FRAME ELEVATIONS.
 - SEE SHEET S302 FOR BRACE FRAME DETAILS.
 - SEE SHEET S401 FOR FOUNDATION SCHEDULES AND TYPICAL DETAILS.
 - SEE SHEET S402 FOR MASONRY SCHEDULES AND TYPICAL DETAILS.
 - SEE SHEET S403 FOR STEEL SCHEDULES AND TYPICAL DETAILS.
 - SEE SHEET S404 FOR WOOD SCHEDULES AND TYPICAL DETAILS.
 - SEE SHEET S405 FOR WOOD BEAM AND JOIST TYPICAL DETAILS.
 - SEE SHEET S500 SERIES FOR FOUNDATION DETAILS.
 - SEE SHEET S700 SERIES FOR FRAMING DETAILS.

- PLAN NOTES (UNLESS NOTED OTHERWISE):
- PROJECT DATUM ELEVATION 100'-0" = 984.5'. SEE CIVIL AND ARCHITECTURAL DRAWINGS.
 - TOP OF FOOTING ELEVATION (TTE) = NOTED ON PLAN AS (XX'-XX").
 - FOOTING SIZES AND REINFORCING ARE BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 3,000PSF. BEARING CAPACITY TO BE VERIFIED BY GEOTECHNICAL ENGINEER.
 - ALL FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS.
 - SEE TYPICAL FOUNDATION DETAILS FOR UTILITY PENETRATIONS THROUGH FOUNDATIONS. SEE PLAN FOR APPROXIMATE LOCATIONS. VERIFY LOCATIONS AND ELEVATIONS WITH MECHANICAL DRAWINGS.
 - TOP OF PIER ELEVATION (TPE) = 99'-4". UNLESS NOTED OTHERWISE ON PLAN AS (XX'-XX").
 - TOP OF SLAB-ON-GRADE ELEVATION (TSE) AS NOTED ON PLAN AS (XX'-XX").
 - INTERIOR SLAB-ON-GRADE IS 4" THICK, REINFORCED WITH 6 x 6 W1.4X1.4 WWF, UNLESS NOTED OTHERWISE. EXTERIOR SLAB-ON-GRADE IS 5" THICK, REINFORCED WITH #4 EPOXY COATED BARS AT 16" ON CENTER EACH WAY.
 - PROVIDE THICKENED SLAB-ON-GRADE UNDER NON-LOAD-BEARING MASONRY WALLS AND STAIR STRINGER BASES AS SHOWN IN THE TYPICAL DETAILS. SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND LOCATIONS OF THESE ELEMENTS.
 - FOR SLAB JOINT LAYOUTS, SEE PLANS AND GENERAL STRUCTURAL NOTES FOR CRITERIA. FOR TYPICAL CONTROL AND CONSTRUCTION JOINTS SEE TYPICAL SLAB JOINTING DETAILS.
 - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING LOCATIONS AND DIMENSIONS OF RAMPS, SLAB SLOPES, SLAB STEPS AND SLAB DEPRESSIONS.
 - VERIFY SIZE, LOCATION AND INVERT ELEVATIONS FOR ALL UTILITIES, SITE STRUCTURES, SUMPS AND DRAINS WITH CIVIL, MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS.
 - SEE CIVIL / LANDSCAPE DRAWINGS FOR PAVING AND SITE DETAILS AT THE BUILDING EXTERIOR.
 - ALL STRUCTURAL STEEL COLUMNS, BASE PLATES, AND HARDWARE TO BE GALVANIZED AT EXTERIOR FRAMING.

- KEYNOTES:
- 24" x 28" CMU PIER SEE 10' S501
 - 28" x 28" CMU PIER SEE 11' S501



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





CONSULTANT:
MEYER | BORGMAN | JOHNSON
STRUCTURAL DESIGN + ENGINEERING
TEL: 612.338.0712 510 MARQUETTE AVE. S.
FAX: 612.337.5351 SUITE 800
www.rjbeng.com MINNEAPOLIS, MN 55402 SEE STRUCTURE

NOTES:
70% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Building
City of Fridley
5872 NE CENTRAL AVE., FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION, OR REPORT WAS
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY
LICENSED ENGINEER UNDER THE LAWS
OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW REBERG

4
LICENSE # DATE

SHEET NAME:

ROOF FRAMING
PLAN

REVISIONS:

No.	Date	Description

22-25 Designer

PROJECT NUMBER DATE

JJH ASR
DRAWN BY CHECKED BY

SHEET NO:

S202

REFERENCE NOTES:

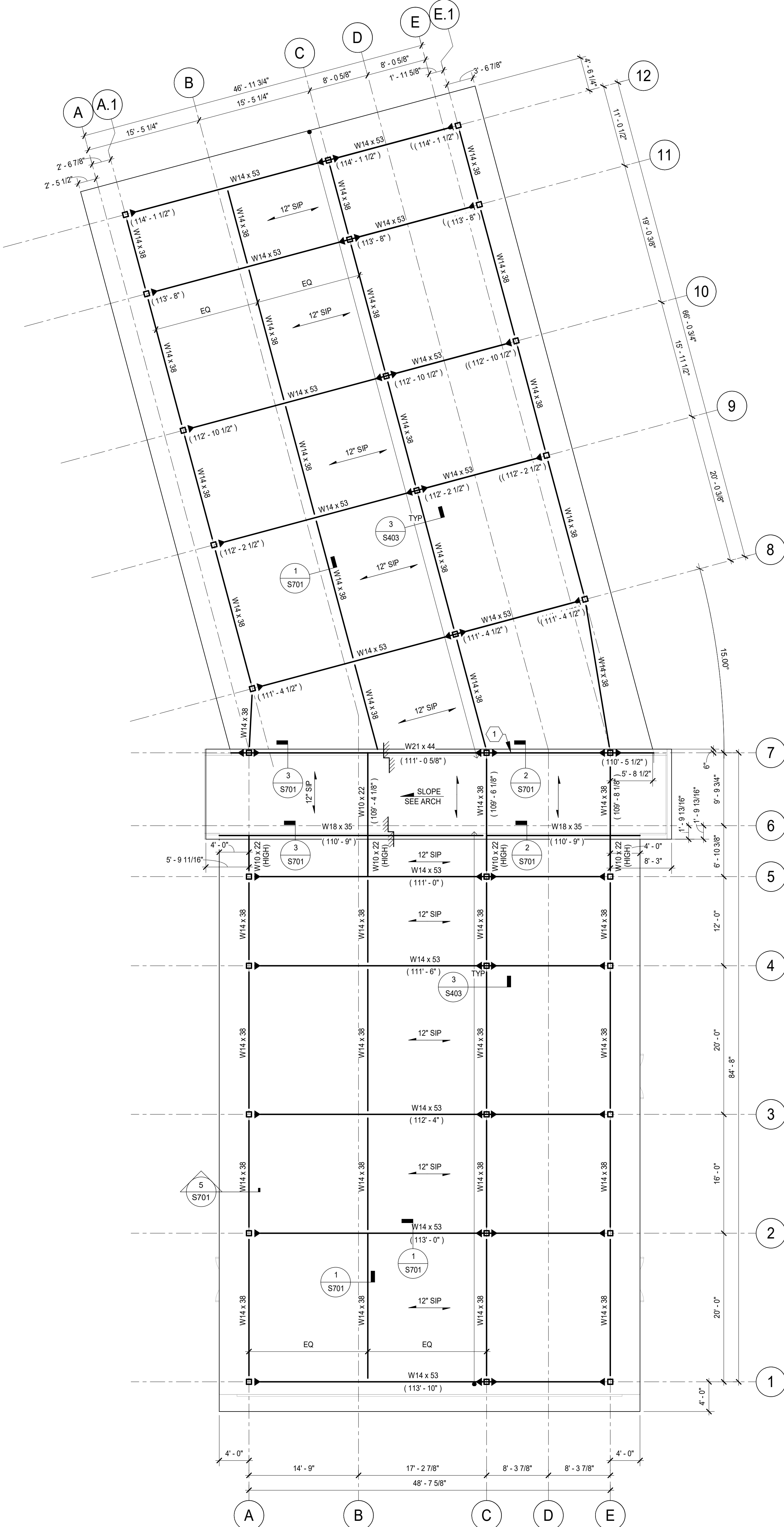
- SEE SHEET S001 FOR SHEET INDEX, TYPICAL ABBREVIATIONS AND LEGENDS.
- SEE SHEET S002 FOR GENERAL STRUCTURAL NOTES.
- SEE SHEET S301 FOR BRACE FRAME ELEVATIONS.
- SEE SHEET S302 FOR BRACE FRAME DETAILS.
- SEE SHEET S401 FOR FOUNDATION SCHEDULES AND TYPICAL DETAILS.
- SEE SHEET S402 FOR MASONRY SCHEDULES AND TYPICAL DETAILS.
- SEE SHEET S403 FOR STEEL SCHEDULES AND TYPICAL DETAILS.
- SEE SHEET S404 FOR WOOD SCHEDULES AND TYPICAL DETAILS.
- SEE SHEET S405 FOR WOOD BEAM AND JOIST TYPICAL DETAILS.
- SEE SHEET S500 SERIES FOR FOUNDATION DETAILS.
- SEE SHEET S700 SERIES FOR FRAMING DETAILS.

PLAN NOTES (UNLESS NOTED OTHERWISE):

- TOP OF SHEATHING ELEVATION (TSE) VARIES - SEE ARCHITECTURAL DRAWINGS FOR ROOF PROFILE.
- TOP OF BEAM ELEVATION (TBE) = NOTED ON PLAN AS (XX-XX").
- TYPICAL ROOF FRAMING IS 12" STRUCTURAL INSULATED WOOD PANELS (SIP) TO BE DESIGNED AND SUPPLIED BY PANEL SUPPLIER. DESIGN ASD LEVEL LOADS FOR SIP PANELS ARE AS FOLLOWS:
DL = 15PSF
SL = 38.5PSF (ABOVE ENCLOSED SPACE), 46PSF (AT CANTILEVERS AND EXTERIOR)
WL UPLIFT = 30PSF NET (CANTILEVERS), 15PSF NET (ABOVE ENCLOSED SPACE)
- CONNECTIONS OF STRUCTURAL INSULATED PANELS TO SUPPORTING ROOF FRAMING IS BY SIP SUPPLIER. DESIGN FOR UPLIFT LOADS SPECIFIED, AND 100PSF SHEAR MINIMUM (ASD), UNLESS NOTED OTHERWISE.
- SEE THE GENERAL STRUCTURAL NOTES AND SPECIFICATION FOR STEEL BEAM CONNECTION REQUIREMENTS. SEE THE TYPICAL CONNECTION SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
- VERIFY SIZE, LOCATION AND NUMBER OF ALL OPENINGS THROUGH FLOOR - OR - ROOF WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. SEE TYPICAL DETAILS FOR REQUIRED FRAMING AT OPENINGS.

KEYNOTES:

- 2 PLY 2x12 SYP MSR HEADER/RIM OVER CMU WALL PER DETAIL 5/S701. HEADER TO CANTILEVER AT ENDS OF WALLS AS SHOWN ON PLAN, DO NOT SPLICE HEADER WITHIN 8FT OF END OF CMU WALL.



1 ROOF FRAMING PLAN

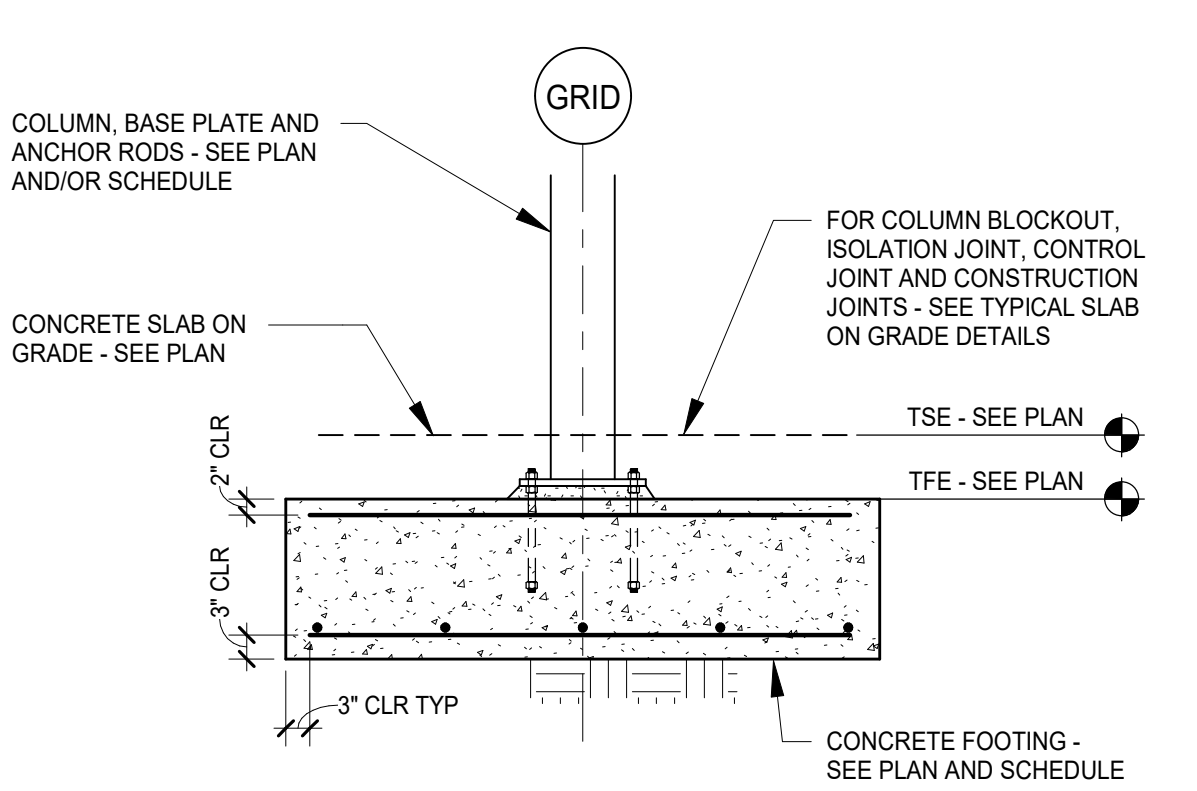
1/8" = 1'-0"

CONCRETE REINFORCING BAR LAP SPlice SCHEDULE									
BAR SIZE	f _c = 3,000 PSI		f _c = 4,000 PSI		f _c = 5,000 PSI		f _c ≥ 6,000 PSI		
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	
#3	18"	22"	16"	20"	14"	18"	12"	16"	
#4	22"	30"	20"	26"	18"	22"	16"	20"	
#5	28"	36"	24"	32"	22"	28"	20"	26"	
#6	34"	44"	30"	38"	26"	34"	24"	32"	
#7	48"	64"	42"	54"	38"	50"	34"	44"	
#8	56"	72"	48"	62"	44"	56"	40"	52"	
#9	62"	82"	54"	70"	48"	64"	44"	58"	
#10	70"	92"	62"	80"	54"	70"	50"	64"	
#11	78"	102"	68"	88"	60"	78"	58"	72"	

- NOTES:
1. REINFORCING BAR LAP SPlice SCHEDULE APPLIES TO UNCOATED, GRADE 60 REINFORCING BARS IN NORMAL WEIGHT CONCRETE.
 2. PROVIDE CLASS A LAP UNLESS NOTED OTHERWISE.
 3. FOR EPOXY COATED BAR, MULTIPLY THE ABOVE LENGTHS BY 1.5.
 4. FOR LIGHT WEIGHT CONCRETE, MULTIPLY THE ABOVE LENGTHS BY 1.3.
 5. FOR TOP BARS IN BEAMS AND HORIZONTAL WALL REINFORCING, MULTIPLY THE ABOVE LENGTHS BY 1.3.
 6. MAXIMUM SPACING OF BARS BEING LAPPED IS ONE FIFTH THE LAP SPlice LENGTH, NOT TO EXCEED 6".

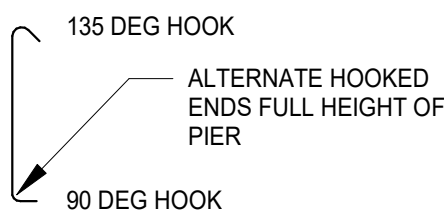
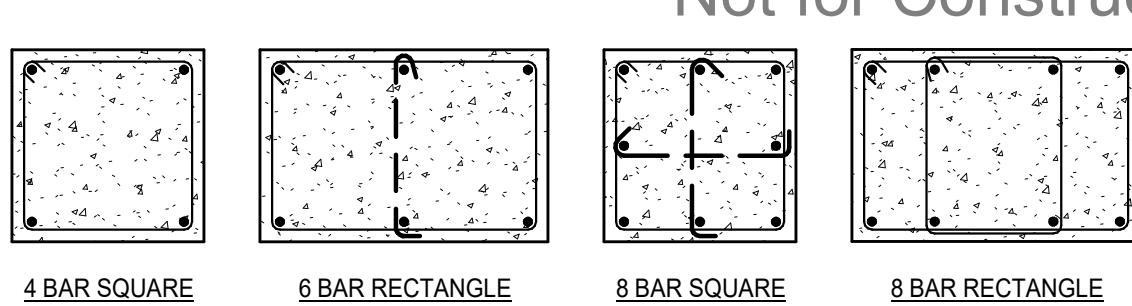
CONCRETE PAD FOOTING SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	REINFORCING BARS - TOP AND BOTTOM	
				LONG	TRANS
F1	3'-0"	3'-0"	1'-0"	3-#5	3-#5
F2	3'-6"	3'-6"	1'-0"	4-#5	4-#5
F3	4'-0"	4'-0"	1'-0"	4-#5	4-#5
F4	4'-6"	4'-6"	1'-0"	4-#5	4-#5
F5	5'-0"	5'-0"	1'-0"	5-#5	5-#5
F6	6'-0"	6'-0"	1'-2"	7-#5	7-#5
F7	7'-0"	7'-0"	1'-6"	6-#6	6-#6

- NOTES:
1. SEE TYPICAL FOOTING DETAILS FOR ADDITIONAL INFORMATION.
 2. LONGITUDINAL (LONG) BARS ARE PARALLEL TO FOOTING LENGTH DIMENSION AND TRANSVERSE (TRANS) BARS ARE PARALLEL TO FOOTING WIDTH DIMENSION.
 3. CENTER FOOTING ON COLUMN, PIER OR WALL UNLESS NOTED OTHERWISE.
 4. SEE GEOTECHNICAL REPORT FOR SUBGRADE REQUIREMENTS.
 5. FOR RECTANGULAR FOOTINGS, LONGITUDINAL BARS ARE TO BE THE BOTTOM LAYER OF REINFORCING.



PIER SCHEDULE				
PIER MARK	SIZE	REINFORCING		COMMENTS
		VERTICAL BARS	TIES	
P1	24 x 24	8 - #6 VERT BARS	#4 TIES AT 10" OC	

- NOTES:
1. SEE TYPICAL COLUMN, PIER AND FOOTING DETAIL FOR ADDITIONAL INFORMATION.
 2. SEE TYPICAL CONCRETE PIER BAR AND TIE LAYOUT FOR REINFORCING CONFIGURATIONS.
 3. PROVIDE STANDARD 90 DEGREE HOOK AT VERTICAL (VERT) BARS TO FOOTING.
 4. CONTRACTORS OPTION PROVIDE HOOKED DOWELS LAP SPliced TO VERTICAL REINFORCING. MATCH SIZE AND LOCATION OF VERTICAL REINFORCING.

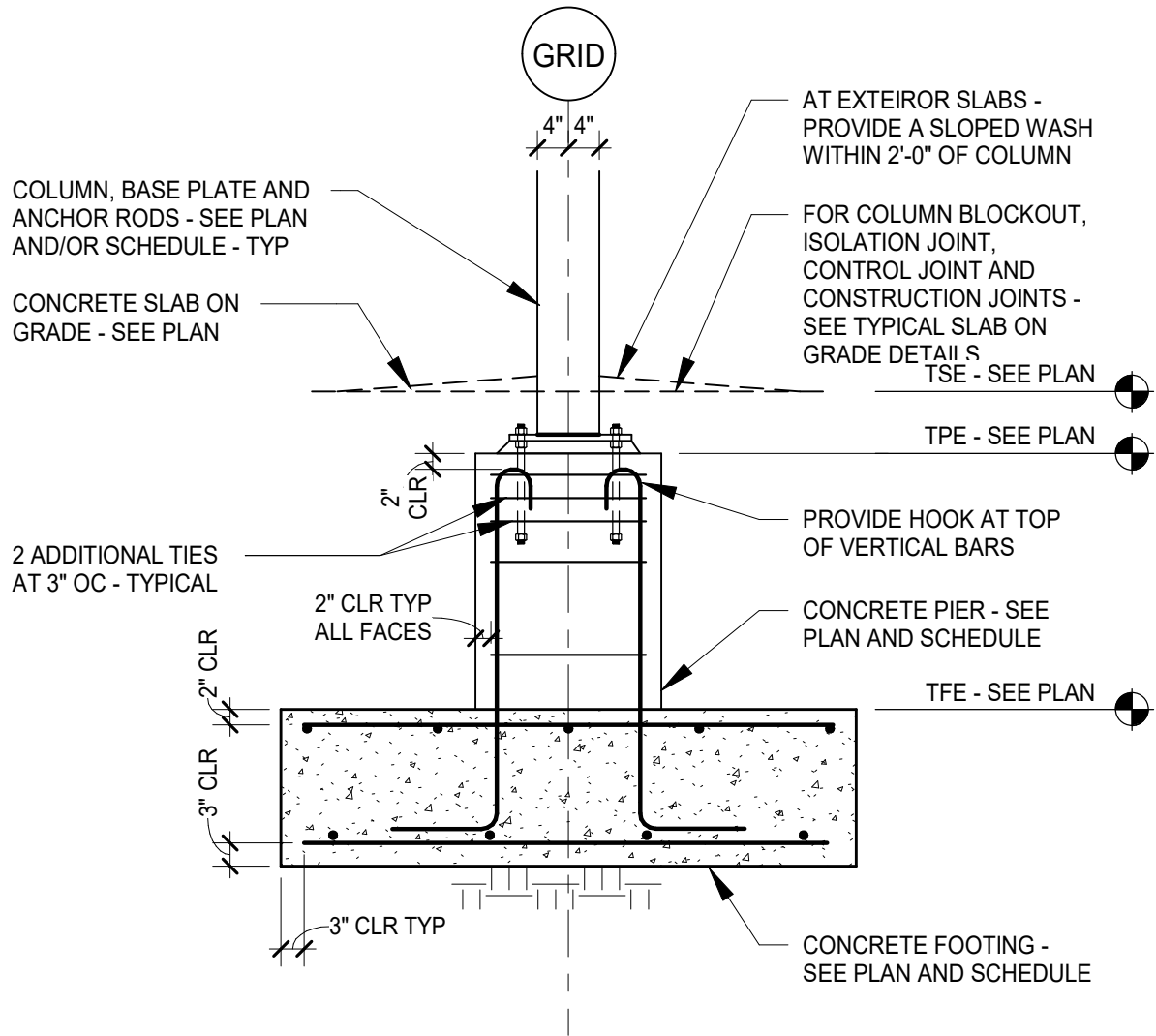


CROSS TIE SCHEMATIC

- NOTES:
1. IF CLEAR SPACING BETWEEN VERTICAL BARS IS GREATER THAN 6", PROVIDE ADDITIONAL CROSS TIES, SHOWN DASHED.

1 S401 NO SCALE

REINFORCING BAR LAP SPlice SCHEDULE



6 S401 NO SCALE

TYPICAL STRUCTURAL STEEL MOMENT FRAME COLUMN, CONCRETE PIER AND FOOTING DETAIL

CONCRETE WALL REINFORCING SCHEDULE				
MARK	WALL TYPE	CENTERED IN WALL		COMMENTS
		HORIZ	VERT	
CW1	8" CONCRETE	#4 AT 18" OC	#4 AT 12" OC	

- NOTES:
1. SEE TYPICAL WALL DETAILS FOR ADDITIONAL INFORMATION.
 2. PROVIDE DOWELS AT FOUNDATION TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

12 S401 1" = 1'-0"

CONCRETE WALL REINFORCING SCHEDULE

2 S401 NO SCALE

CONCRETE PAD FOOTING SCHEDULE

CONCRETE WALL FOOTING SCHEDULE				
MARK	WIDTH	THICKNESS	REINFORCING - BOTTOM BARS	COMMENTS
			LONG	
WF1	2'-0"	1'-0"	2 - #5	

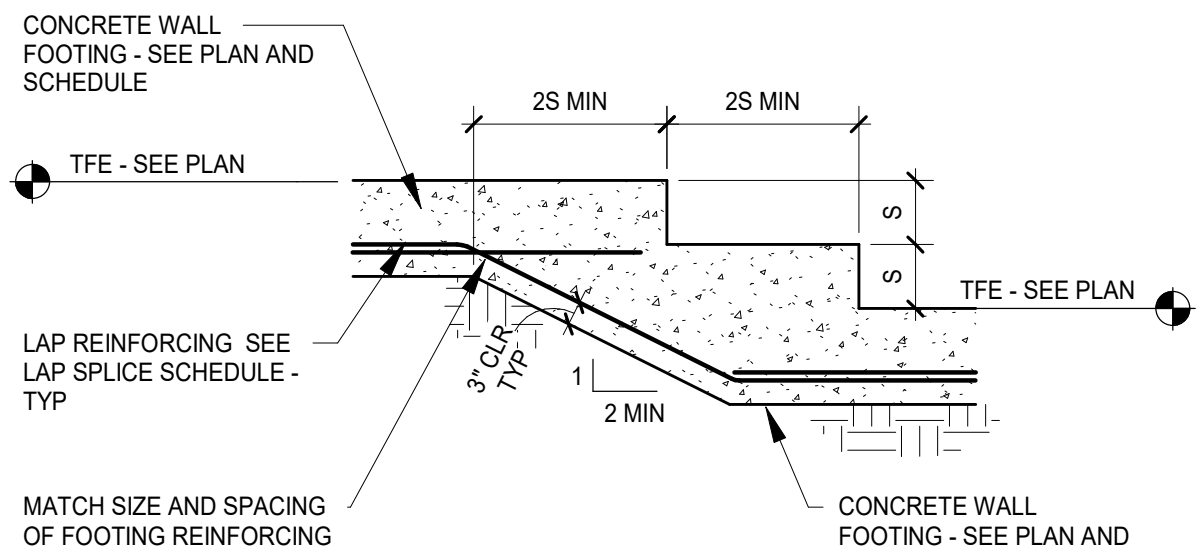
- NOTES:
1. SEE TYPICAL WALL FOOTING DETAILS FOR ADDITIONAL INFORMATION.
 2. LONGITUDINAL (LONG) REINFORCING IS CONTINUOUS. PROVIDE CLASS "A" LAP SPlice TYP UNLESS NOTED OTHERWISE.
 3. PROVIDE CORNER BARS AT CORNERS AND INTERSECTIONS.
 4. FOOTING SIZES AND REINFORCING ARE BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 3,000PSF. BEARING CAPACITY TO BE VERIFIED BY GEOTECHNICAL ENGINEER.

7 S401 NO SCALE

CONCRETE WALL FOOTING SCHEDULE

3 S401 NO SCALE

TYPICAL INTERIOR STRUCTURAL STEEL MOMENT FRAME COLUMN FOOTING DETAIL



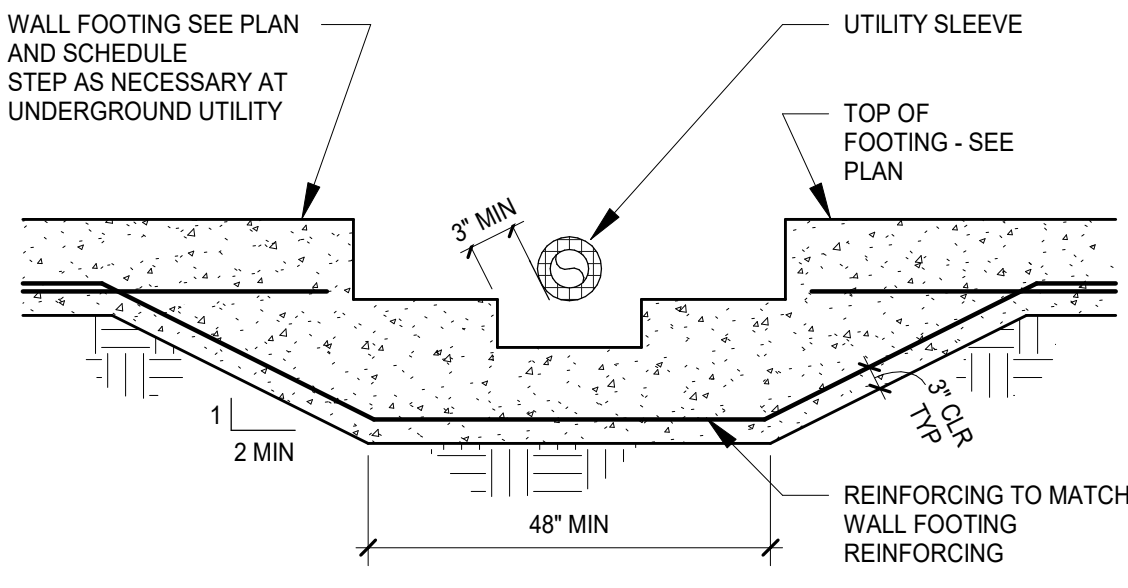
- NOTES:
1. SEE PLAN FOR FOOTING STEP LOCATIONS.
 2. 'S' SHALL NOT EXCEED 16" FOR CMU WALLS OR 24" FOR CAST-IN-PLACE OR PRECAST CONCRETE WALLS.

8 S401 1/2" = 1'-0"

TYPICAL WALL FOOTING STEP

4 S401 NO SCALE

CONCRETE PIER SCHEDULE



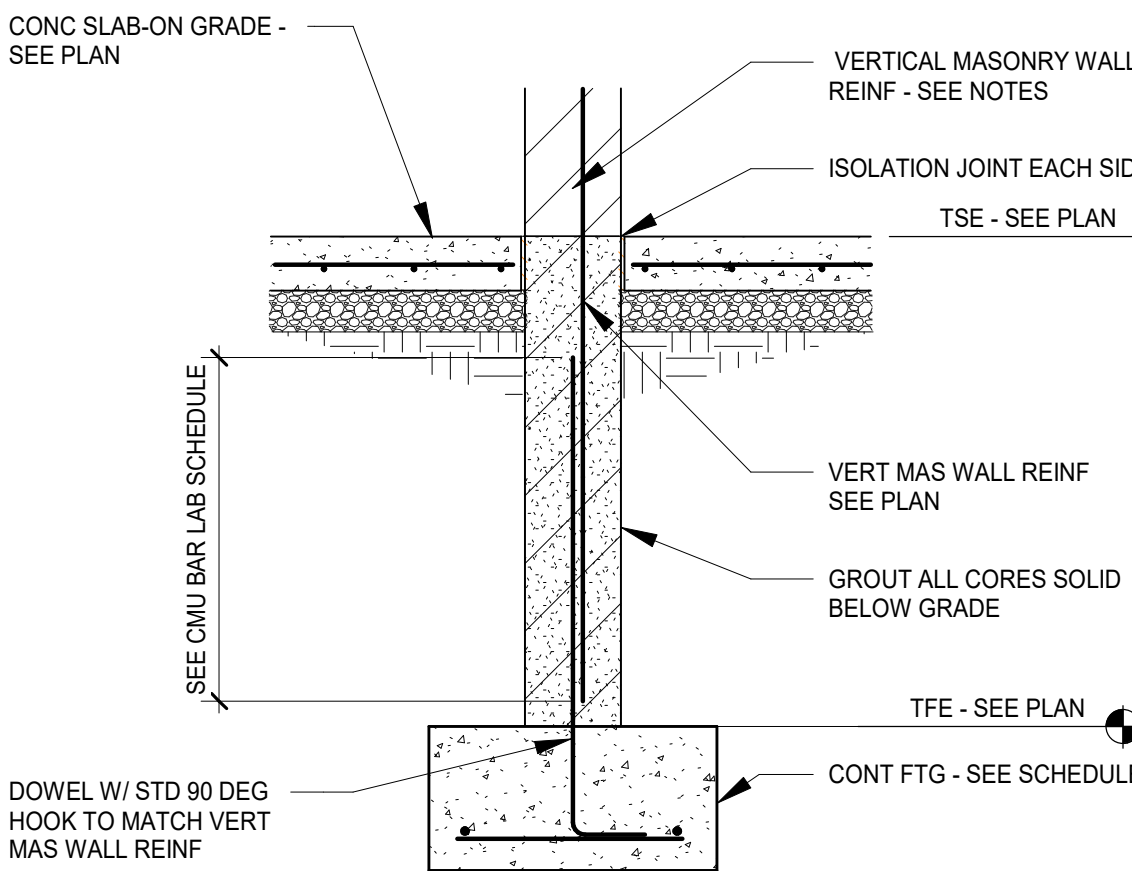
- NOTES:
1. SEE TYPICAL WALL FOOTING STEP DETAIL FOR ADDITIONAL INFORMATION.
 2. UTILITY SLEEVE DIAMETER TO BE 2" GREATER THAN UTILITY PIPE OUTSIDE DIAMETER. INSULATE WITH 1" COMPRESSIBLE MATERIAL BETWEEN SLEEVE AND UTILITY.
 3. AT FOOTINGS BELOW CMU WALLS, COORDINATE WALL FOOTING STEP LOCATIONS WITH CMU COURSING.

9 S401 1/2" = 1'-0"

TYPICAL STEPPED WALL FOOTING AT UTILITIES

5 S401 NO SCALE

CONCRETE PIER BAR AND TIE LAYOUT



10 S401 3/4" = 1'-0"

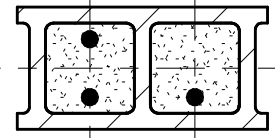
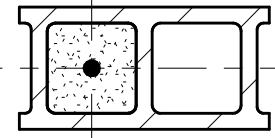
TYP FOUNDATION DETAIL



REVISIONS:		
No.	Date	Description

CMU REINFORCING BAR LAP SPLICE SCHEDULE: f'm = 2000 PSI								
BAR SIZE	6" CMU		8" CMU		10" CMU		12" CMU	
CASE 1	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	14"	14"	15"	14"	14"	14"	14"	14"
#4	21"	18"	25"	18"	24"	18"	22"	22"
#5	32"	22"	39"	39"	37"	37"	22"	35"
#6	-	38"	-	54"	38"	54"	35"	54"
#7	-	52"	-	40"	63"	40"	63"	63"
#8	-	-	-	61"	-	53"	72"	72"

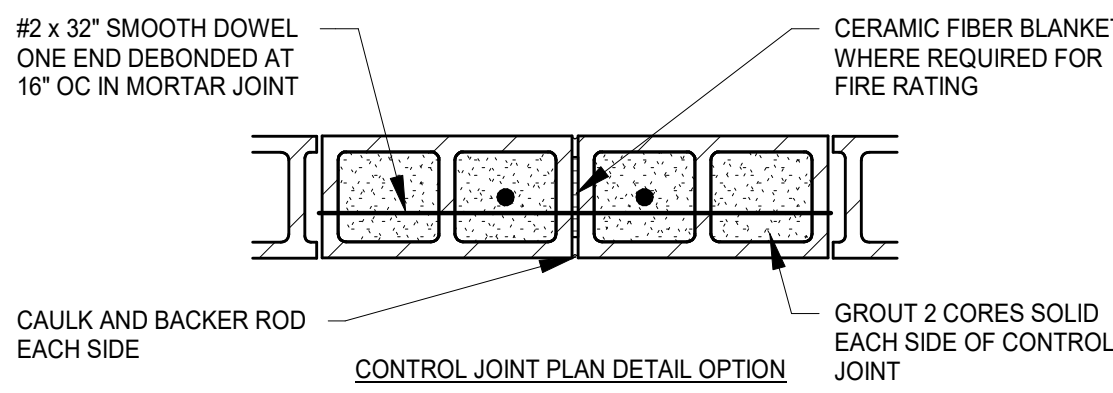
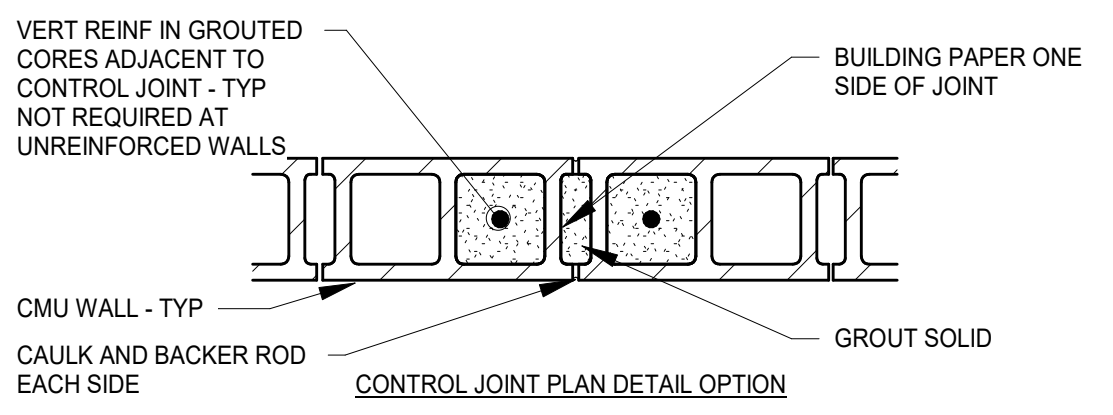
- NOTES:
- REINFORCING BAR LAP SPLICE SCHEDULE APPLIES TO UNCOATED, GRADE 60 REINFORCING BARS IN ASTM C 80 HOLLOW UNITS.
 - CASE 1: ONE BAR PER CELL LOCATED IN THE CENTER OF THE CELL.
 - CASE 2: ALL OTHER CONDITIONS, INCLUDING TWO BARS PER CELL AND SINGLE BARS NOT LOCATED IN THE CENTER OF THE CELL.
 - FOR EPOXY COATED BAR, MULTIPLY THE ABOVE LENGTHS BY 1.5.
 - MAXIMUM SPACING OF BARS BEING LAPPED IS ONE FIFTH THE LAP SPLICE LENGTH, NOT TO EXCEED 8".
 - REINFORCING BARS SHALL BE LAPPED IN THE SAME CMU CELL.
 - ALL BARS MUST BE PLACED IN FULLY GROUDED CELLS OR BOND BEAMS.



CASE 1
ONE BAR PER CELL
LOCATED IN THE
CENTER OF THE CELL

CASE 2
ALL OTHER CONDITIONS INCLUDING TWO
BARS PER CELL AND SINGLE BARS NOT
LOCATED IN THE CENTER OF THE CELL

1 CMU REINFORCING BAR LAP SPLICE SCHEDULE
S402 NO SCALE



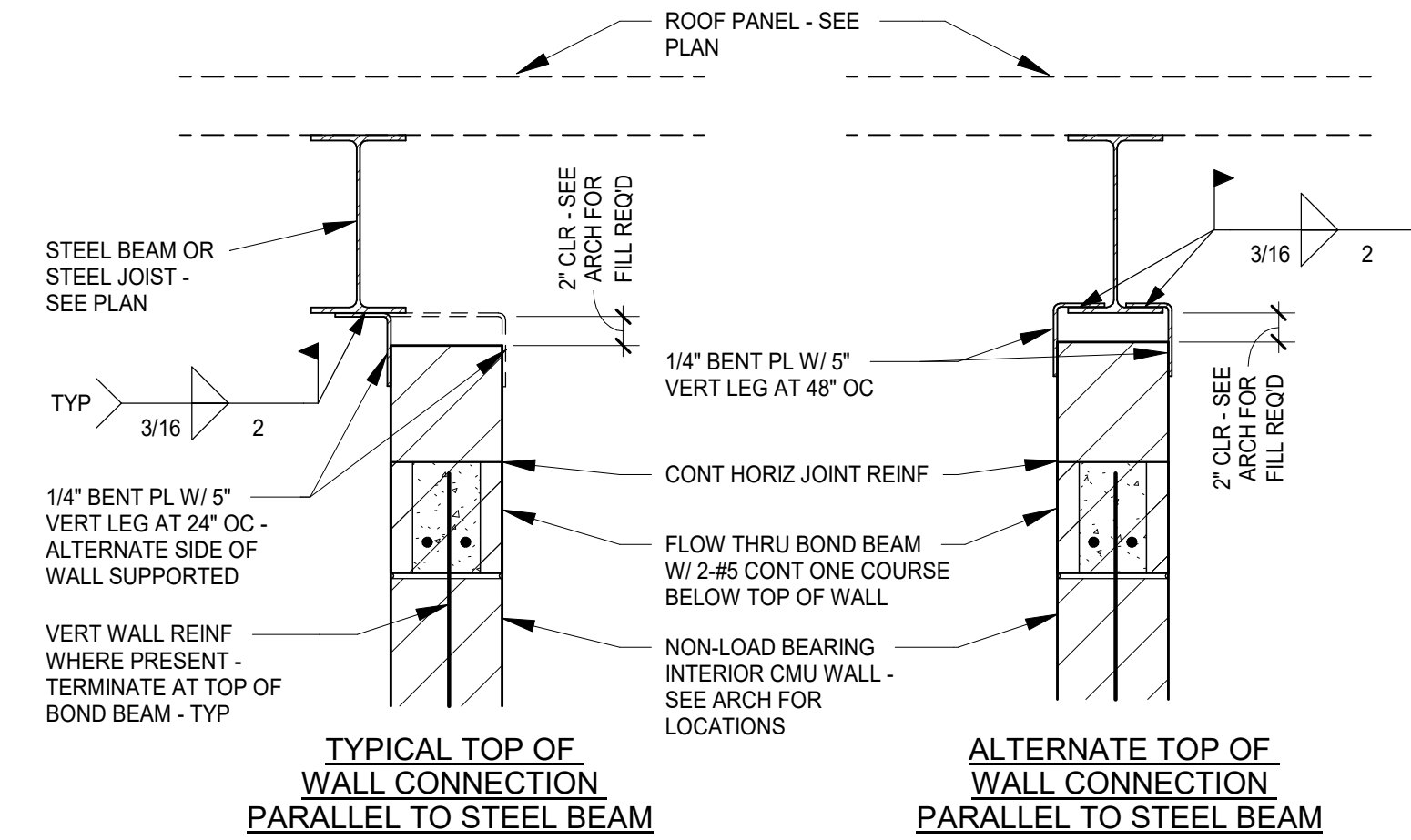
- NOTES:
- SEE ARCHITECTURAL DRAWINGS, GENERAL STRUCTURAL NOTES, TYPICAL CMU WALL REINFORCING SCHEMATIC AND TYPICAL CMU WALL CONTROL JOINT THROUGH BOND BEAM DETAILS FOR CONTROL JOINT REQUIREMENTS AND LOCATIONS.
 - TERMINATE HORIZONTAL JOINT REINFORCEMENT AT CONTROL JOINTS.
 - DO NOT TERMINATE LINTEL REINFORCING AT CONTROL JOINTS.

5 TYPICAL CMU WALL CONTROL JOINT PLAN DETAILS
S402 NO SCALE

MARK	THICKNESS	REINFORCING				COMMENTS
		CENTERED IN WALL	INSIDE FACE	OUTSIDE FACE	BOND BEAM	
MW1	8"	#6 AT 24" OC			3RD AND 4TH COURSE ABOVE FFE	SEE 12/S4.6
MW2	12"	#6 AT 24" OC				

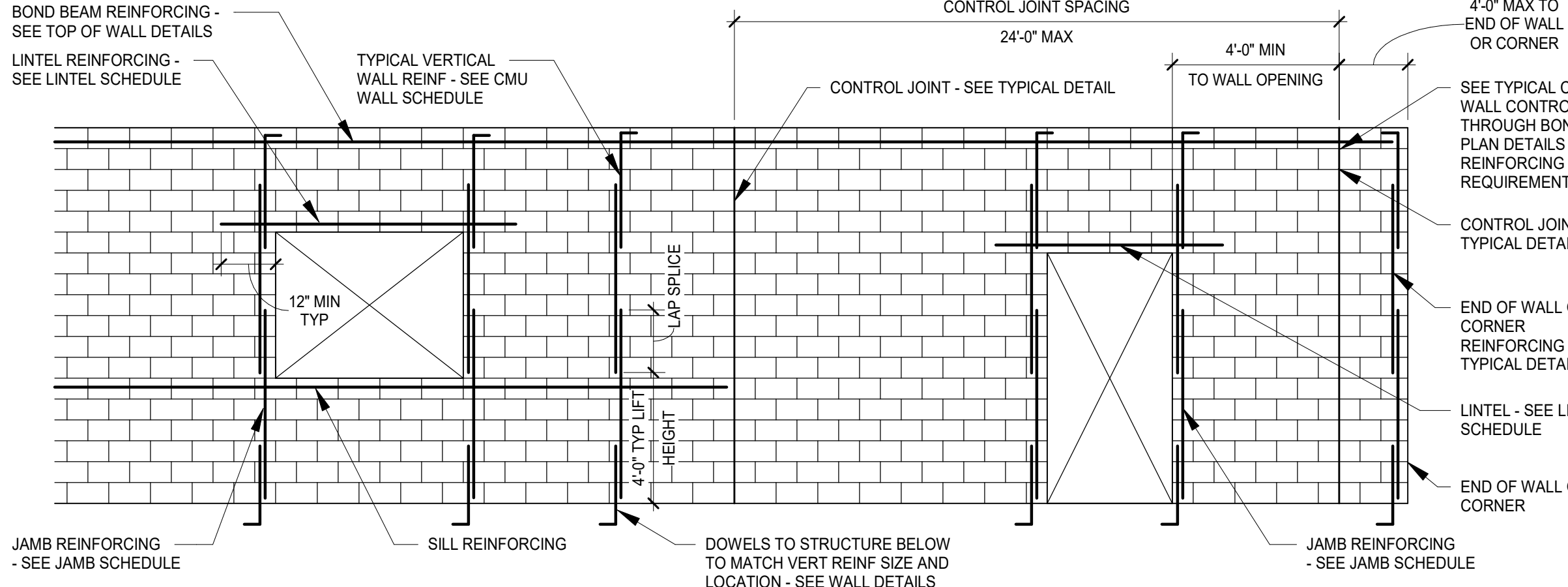
- NOTES:
- SEE TYPICAL CMU WALL DETAILS FOR ADDITIONAL INFORMATION.
 - PROVIDE DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

9 MASONRY WALL REINFORCING SCHEDULE
S402 1" = 1'-0"



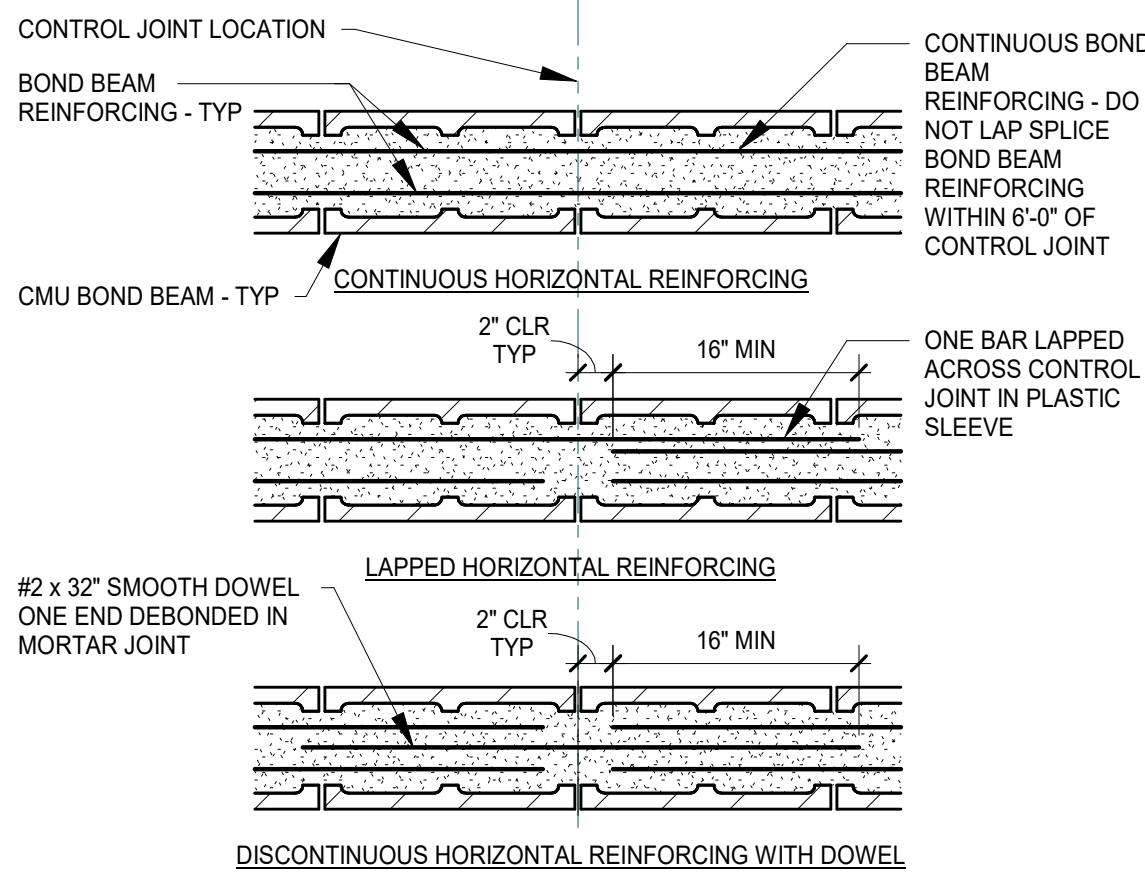
- NOTES:
- AT 8" CMU WALLS, TOP OF WALL BOND BEAMS SHALL HAVE 1-#4 CONTINUOUS HORIZONTAL.
 - LOCATE CONNECTION WITHIN 8" OF ENDS OF WALL AND EACH SIDE OF CONSTRUCTION JOINTS.
 - AT CONTRACTOR'S OPTION PROVIDE BOND BEAM AT TOP OF WALL IN LIEU OF ONE COURSE BELOW. BOND BEAM SHALL BE FULLY GROUDED. CLEAN OUT TOP OF WALL AS NEEDED TO MAINTAIN 2" CLEAR TO UNDERSIDE OF STRUCTURE.

13 TYPICAL TOP OF INTERIOR NON-LOAD BEARING CMU WALL AT STEEL BEAM DETAILS
S402 1" = 1'-0"



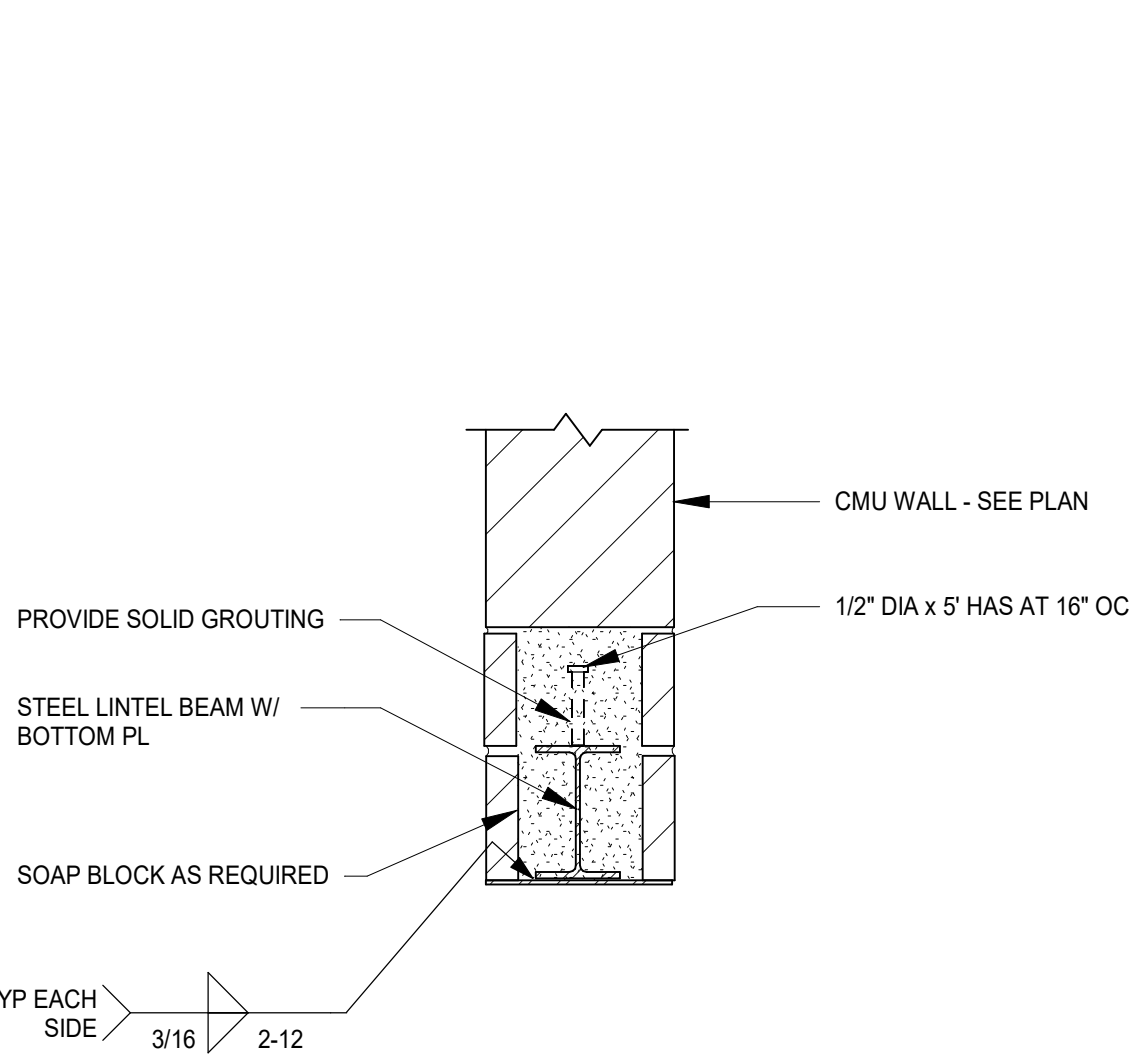
- NOTES:
- JAMB AND END OF WALL REINFORCING SHALL BE FULL HEIGHT OF WALL AND SHALL BE IN ADDITION TO TYPICAL VERTICAL WALL REINFORCING.
 - PROVIDE CONTROL JOINTS TO MEET SPACING REQUIREMENTS SHOWN AND AT LOCATIONS WHERE CHANGES IN WALL THICKNESS OCCUR, AND WHERE MOVEMENT JOINTS IN THE FLOOR ABOVE AND/OR BELOW OCCUR.
 - SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS AT NON-LOAD BEARING WALLS NOT SHOWN ON STRUCTURAL DRAWINGS.
 - SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.
 - PROVIDE CLEANOUT AT BOTTOM COURSE FOR GROUT POURS GREATER THAN 5'-0" HIGH.
 - SILL REINFORCING SHALL BE LADDER JOINT REINFORCING IN THE FIRST OR SECOND MORTAR JOINT BELOW THE SILL OR A REINFORCED BOND BEAM. SILL REINFORCING SHALL EXTEND BETWEEN CONTROL JOINTS.
 - SEE NON-LOAD BEARING INTERIOR CMU WALL REINFORCING SCHEDULE FOR LINTEL AND JAMB REINFORCING REQUIRED AT NON-LOAD BEARING INTERIOR WALLS.

2 TYPICAL CMU WALL REINFORCING SCHEMATIC
S402 NO SCALE

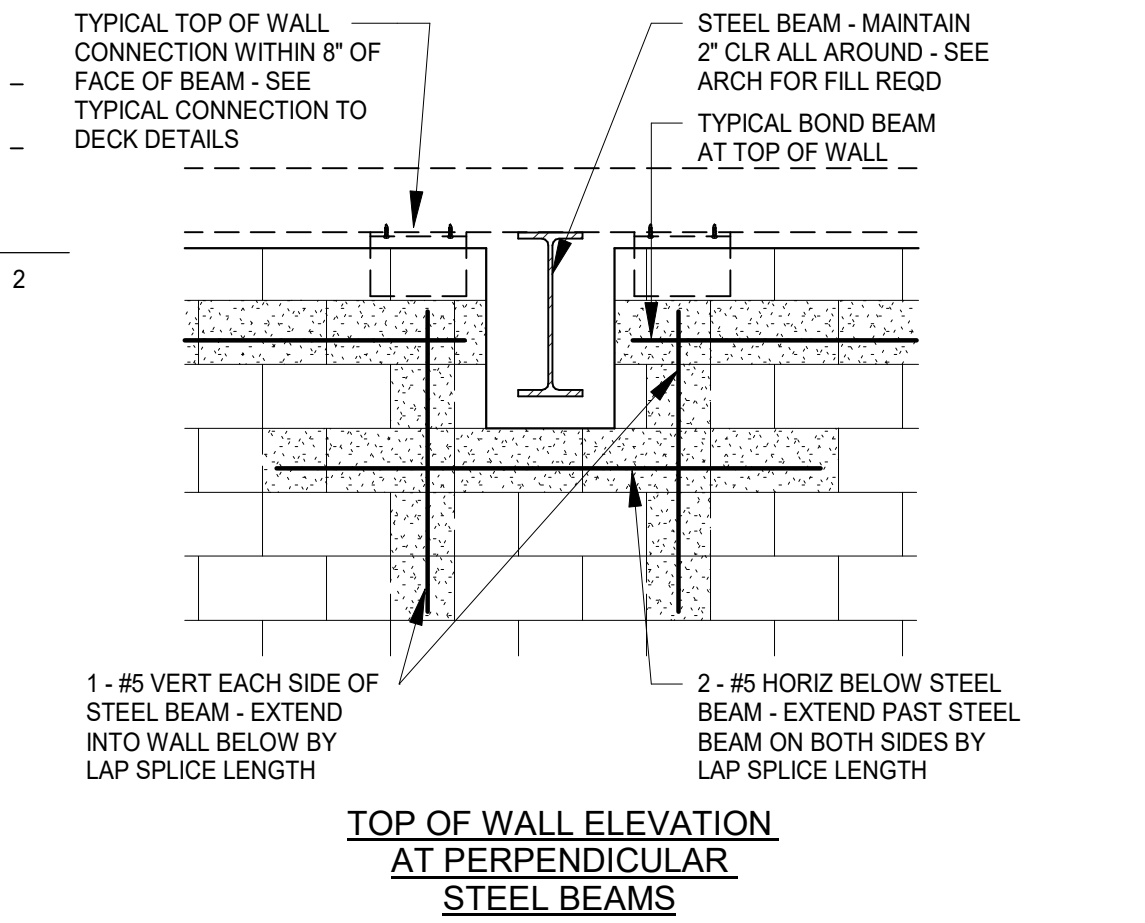


- NOTES:
- SEE ARCHITECTURAL DRAWINGS, GENERAL STRUCTURAL NOTES, TYPICAL CMU WALL REINFORCING SCHEMATIC AND TYPICAL CMU WALL CONTROL JOINT DETAILS FOR CONTROL JOINT REQUIREMENTS AND LOCATIONS.
 - PROVIDE CONTINUOUS HORIZONTAL BOND BEAM REINFORCING THROUGH CONTROL JOINTS AT FLOOR AND ROOF LEVELS AND AS OTHERWISE INDICATED FOR CMU WALLS SHOWN ON THE STRUCTURAL DRAWINGS.
 - PROVIDE LAPPED OR DISCONTINUOUS HORIZONTAL BOND BEAM REINFORCING AT CONTROL JOINTS UNLESS NOTED OTHERWISE FOR CMU WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

6 TYPICAL CMU WALL CONTROL JOINT THROUGH BOND BEAM PLAN DETAILS
S402 NO SCALE



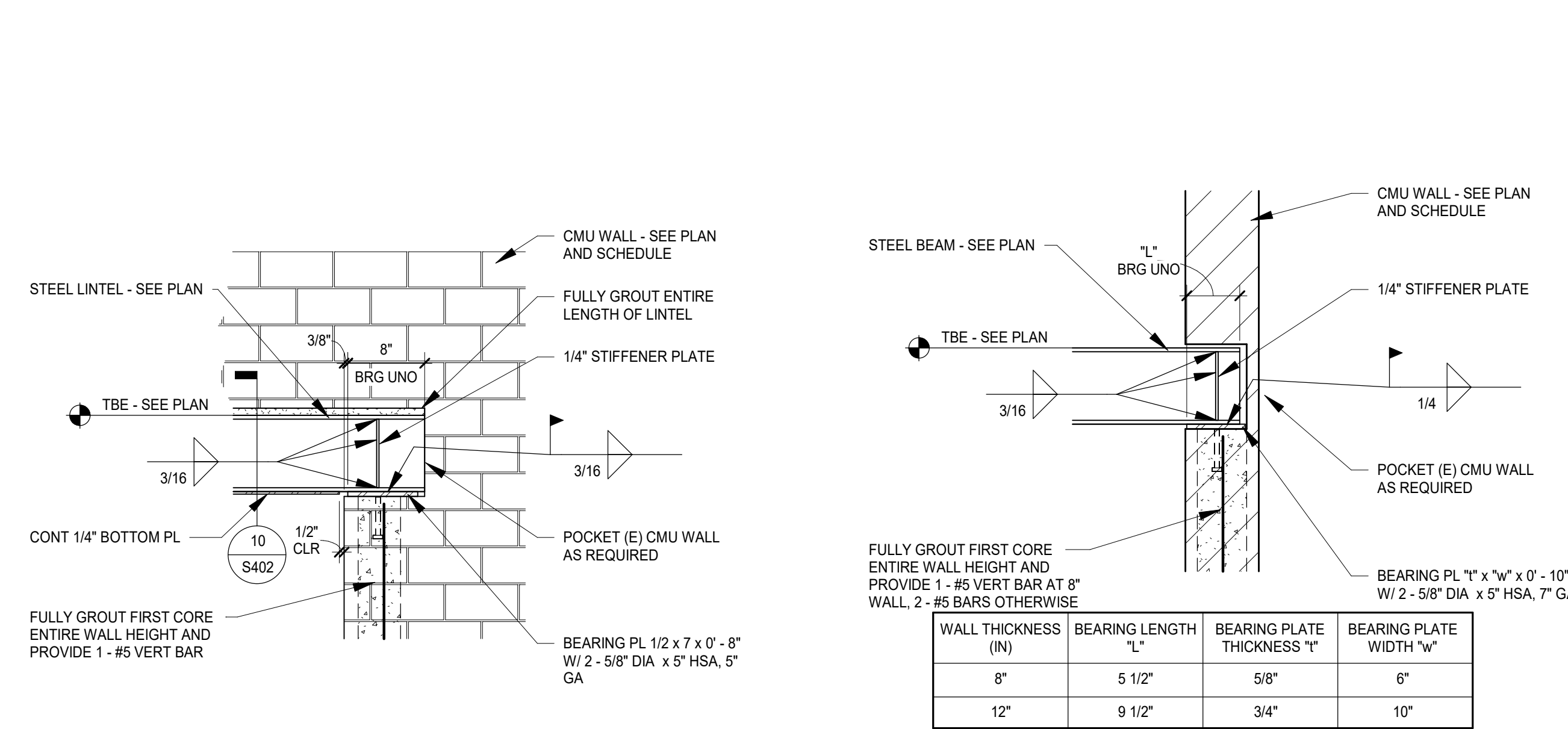
10 TYPICAL STEEL LINTEL SECTION
S402 1" = 1'-0"



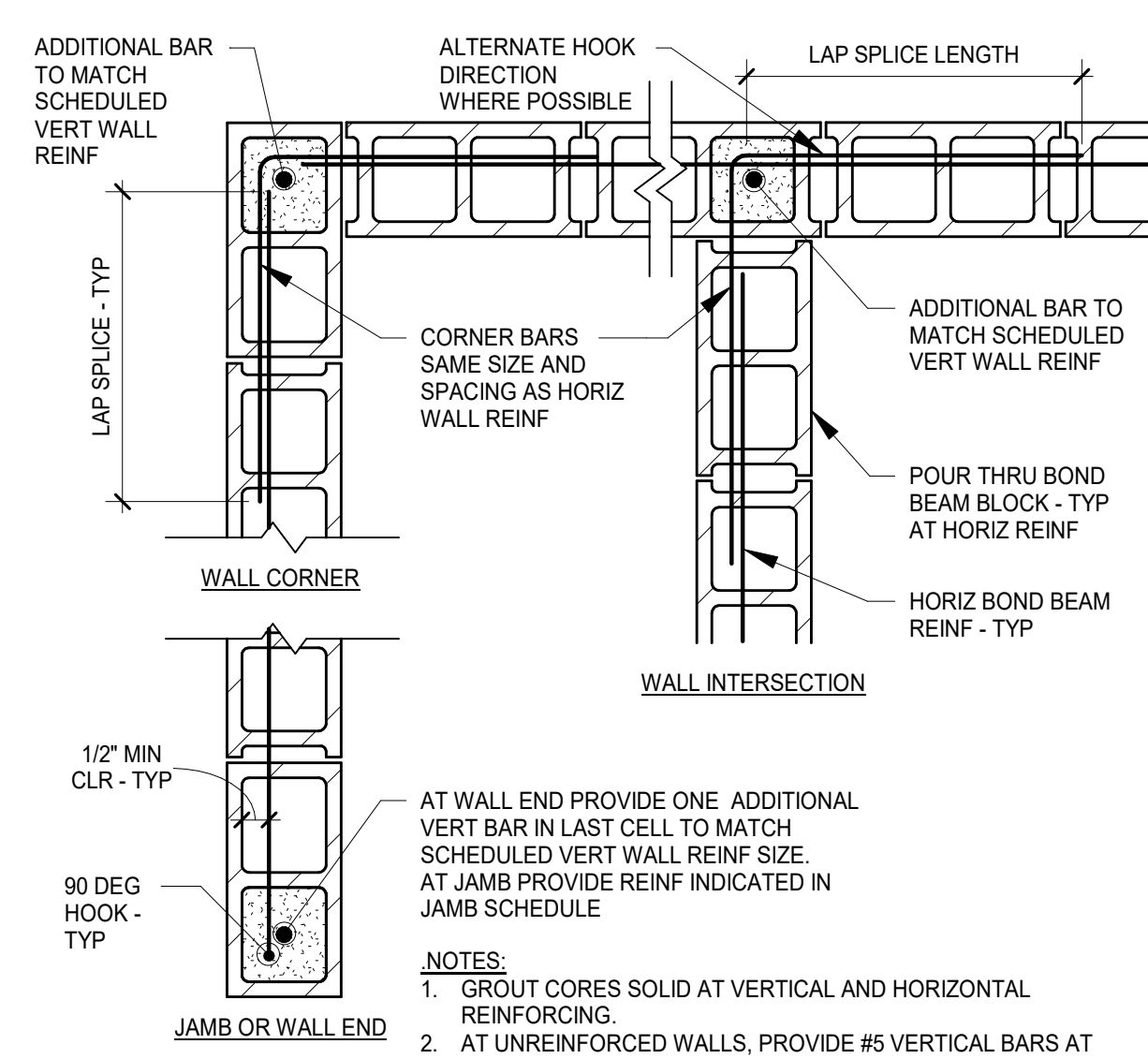
NON-LOAD BEARING INTERIOR CMU WALL REINFORCING SCHEDULE							
NOMINAL CMU WALL THICKNESS	WALL HEIGHT	VERTICAL FIELD	REINFORCING				COMMENTS
			WALL OPENING SIZE				
			≤ 4'-0"		≤ 8'-0"		
			LINTEL	JAMB	LINTEL	JAMB	
6"	≤ 12'-0"	UNREINFORCED	8" HIGH 1-#4	8" WIDE, 1-#4	8" HIGH 1-#6	8" WIDE, 1-#6	
	≤ 18'-0"	#4 AT 48" OC	8" WIDE, 1-#5	8" WIDE, 1-#5	16" WIDE, 2-#6		
8"	≤ 18'-0"	UNREINFORCED	8" HIGH 1-#5	8" WIDE, 1-#5	8" HIGH 2-#5	8" WIDE, 1-#5	
	≤ 24'-0"	#5 AT 48" OC	8" WIDE, 1-#5	8" WIDE, 1-#5	8" WIDE, 2-#5	8" WIDE, 2-#5	

- NOTES:
- WALL HEIGHT INDICATES MAXIMUM ALLOWABLE VERTICAL CLEAR DISTANCE BETWEEN POINTS OF CONTINUOUS LATERAL WALL SUPPORT.
 - VERTICAL REINFORCEMENT SHALL BE LOCATED IN THE CENTER OF THE WALL.
 - CMU LINTELS SHALL BE GROUDED SOLID WITH A MINIMUM OF 2" BOTTOM COVER TO REINFORCING.
 - PROVIDE 8" BEARING ON JAMBS AT EACH END OF CMU LINTELS.
 - JAMB REINFORCING SPECIFIED SHALL BE EVENLY DISTRIBUTED ALONG THE JAMB WIDTH. AT LOCATIONS WITH 2 BARS PER CELL, BARS SHALL BE PLACED PER CASE 2 OF THE CMU REINFORCING BAR LAP SPLICE SCHEDULE.
 - SEE ARCH FOR LOCATIONS AND SIZES OF INTERIOR NON-LOAD BEARING CMU WALLS.
 - SEE TYPICAL CMU WALL DETAILS FOR ADDITIONAL INFORMATION.

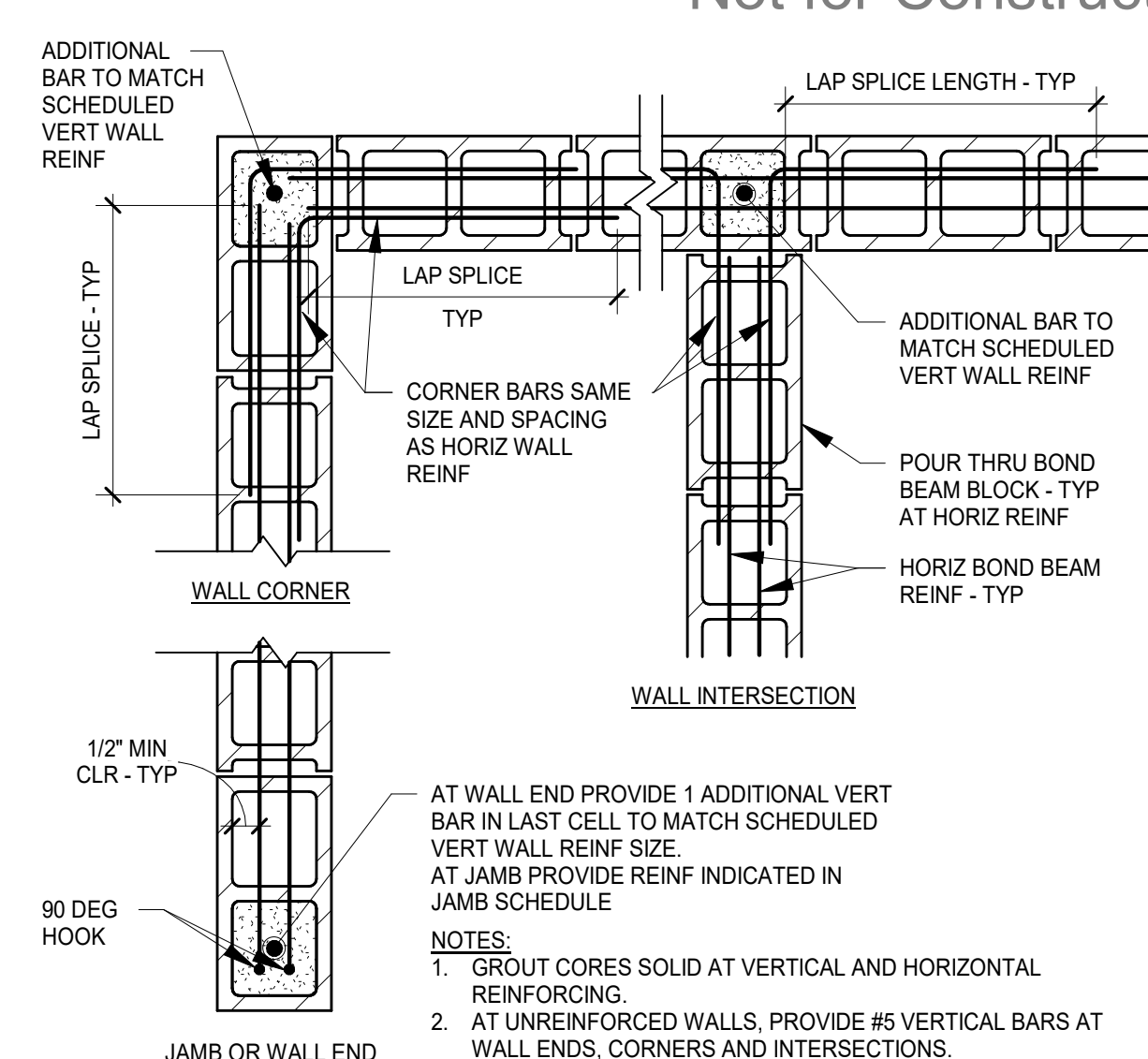
7 NON-LOAD BEARING INTERIOR CMU WALL REINFORCING SCHEDULE
S402 1" = 1'-0"



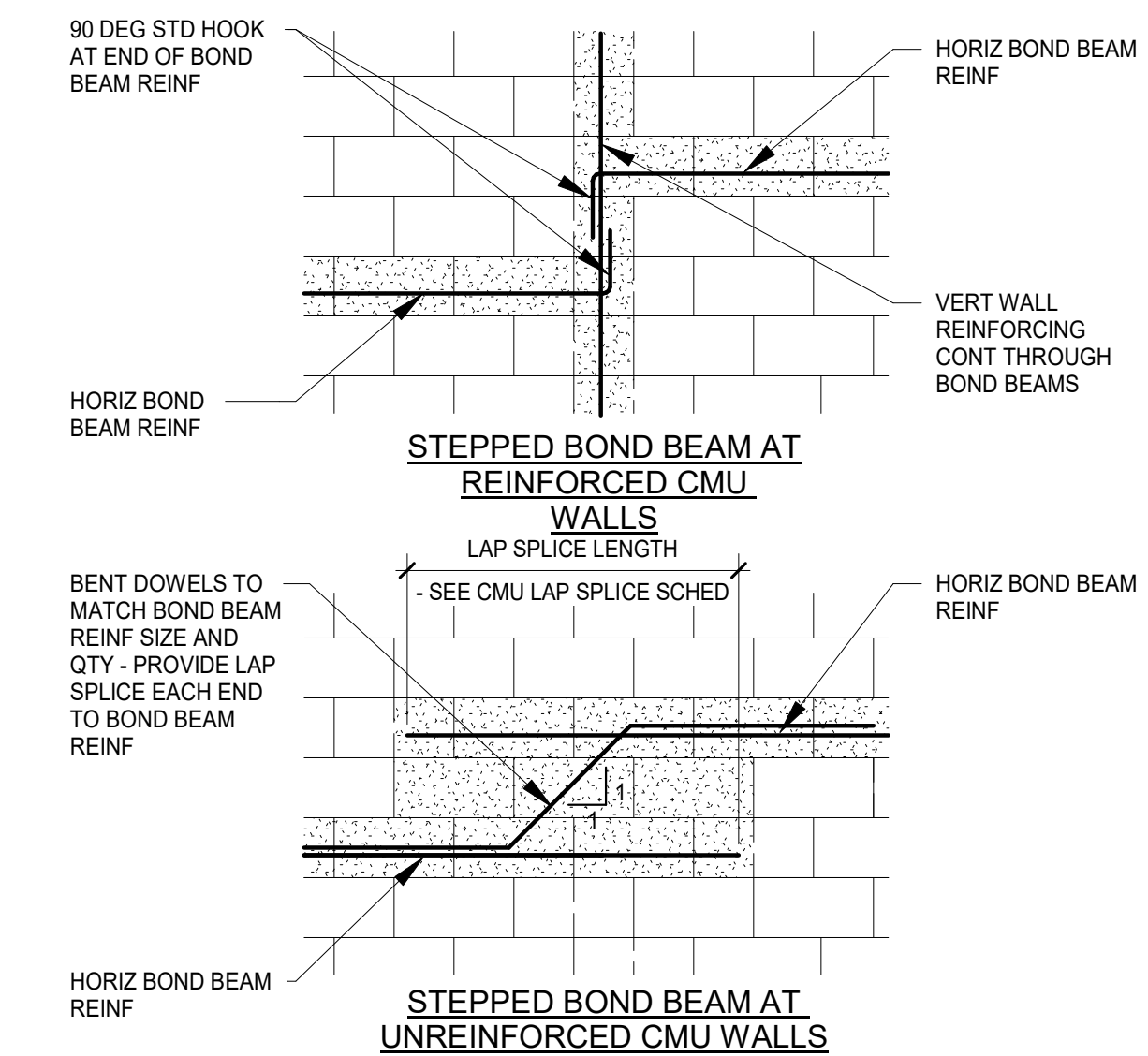
11 TYPICAL STEEL LINTEL DETAIL
S402 1" = 1'-0"



3 TYPICAL CMU WALL REINFORCING PLAN DETAILS
S402 NO SCALE



4 TYPICAL CMU WALL REINFORCING PLAN DETAILS
S402 NO SCALE



8 TYPICAL STEPPED BOND BEAM DETAILS
S402 1/2" = 1'-0"



CONSULTANT:
MEYER | BORGMAN | JOHNSON
STRUCTURAL DESIGN + ENGINEERING
TEL: 612.238.0712 510 MARQUETTE AVE. S.
FAX: 612.237.8251 SUITE 800
www.rdggroup.com MINNEAPOLIS, MN 55402 SEE STRUCTURE

NOTES:
70% CONSTRUCTION DOCUMENTS



PROJECT NAME:
Moore Lake Park Building
City of Fridley
5872 NE CENTRAL AVE., FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW REBERG

4 LICENSE # DATE

SHEET NAME:

TYPICAL CMU SCHEDULES AND DETAILS

REVISIONS:		
No.	Date	Description

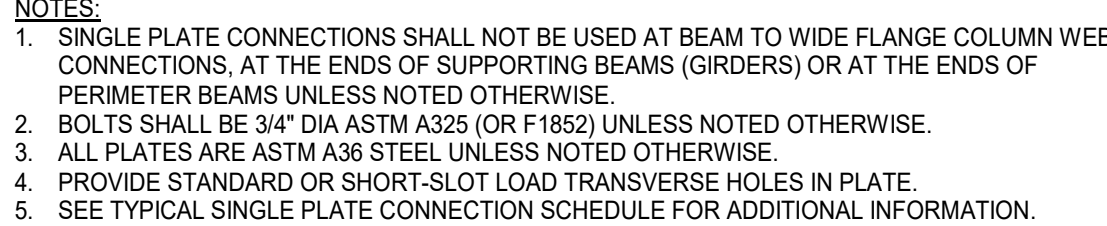
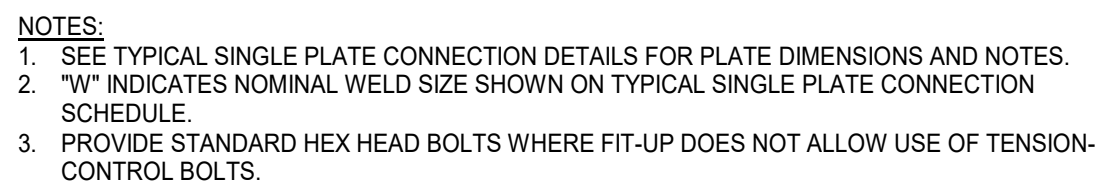
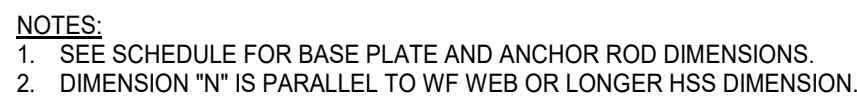
22-25 Designer
PROJECT NUMBER DATE
JJH ASR
DRAWN BY CHECKED BY

SHEET NO:

S402

NOTES:

1. ANCHOR RODS SHALL BE ASTM F1554, GRADE 36.
2. BASE PLATES SHALL BE ASTM A36.
3. MILL COLUMN BASE AND/OR BASE PLATE AS NECESSARY FOR FULL CONTACT.
4. BASE PLATE THICKNESS INDICATED IS MINIMUM THICKNESS AFTER MILLING.
5. BASE PLATE SHALL NOT BE SET INTO CONCRETE AFTER CONCRETE IS CAST.
6. PROVIDE MAXIMUM HOLE SIZE IN BASE PLATE FOR ANCHOR RODS PER AISC TABLE 14-2, UNLESS NOTED OTHERWISE.
7. SEE TYPICAL COLUMN BASE PLATE DETAILS FOR ADDITIONAL INFORMATION.



NOTES:

1. SEE TYPICAL SINGLE PLATE CONNECTION DETAILS FOR ADDITIONAL INFORMATION.
2. WELD SIZE SHOWN IS THE FILLET WELD LEG DIMENSION FOR PERPENDICULAR JOINTS. AT SKEWED CONNECTION CONDITIONS, SEE THE SKEWED CONNECTION DETAIL FOR WELD REQUIREMENTS.

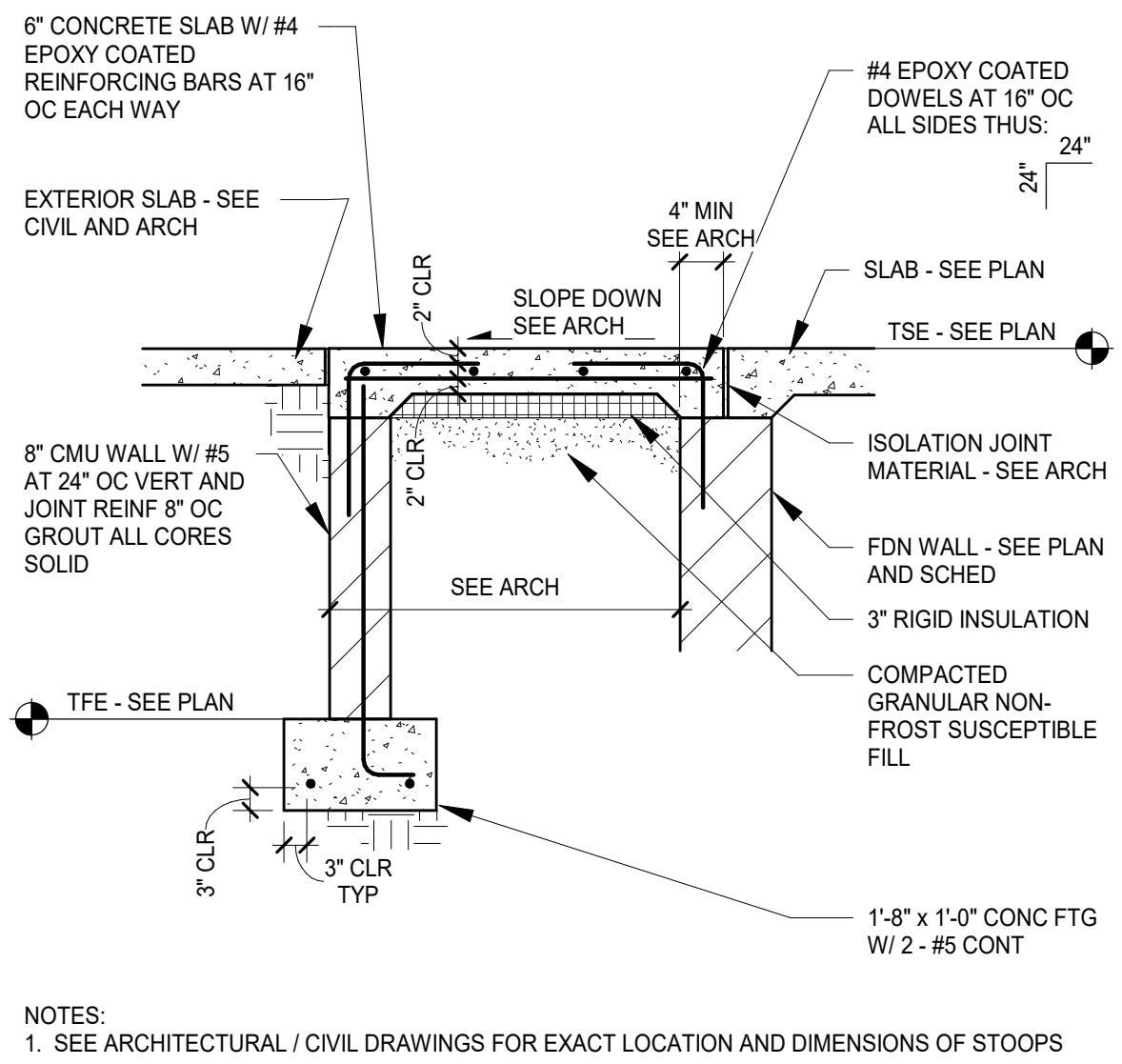
NOTES:

1. PROVIDE THROUGH PLATE CONNECTIONS AT HSS OR PIPE COLUMNS WITH WALL THICKNESSES LESS THAN 1/4" AND WHERE INDICATED ON PLAN AND/OR SCHEDULE.
2. PROVIDE "CAP PLATE WITH SEAL WELDS AT TOP OF COLUMN WHERE NO COLUMN IS PRESENT ABOVE THE CONNECTION. WHERE CAP PLATES ARE INDICATED IN A COLUMN SCHEDULE PROVIDE THE SCHEDULED PLATE.
3. AT THROUGH PLATES WHERE THE SCHEDULED SINGLE PLATE THICKNESS DIFFERS FOR BEAMS ON EITHER SIDE OF THE COLUMN, PROVIDE A THROUGH PLATE WITH THE LARGER OF THE TWO SCHEDULED PLATE THICKNESSES.
4. SEE TYPICAL SINGLE PLATE CONNECTION SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.

NOTES:
1. PREPARE JOINTS AND PROVIDE BACKER BARS AS NECESSARY TO ACHIEVE INDICATED WELDS PER AWS REQUIREMENTS.

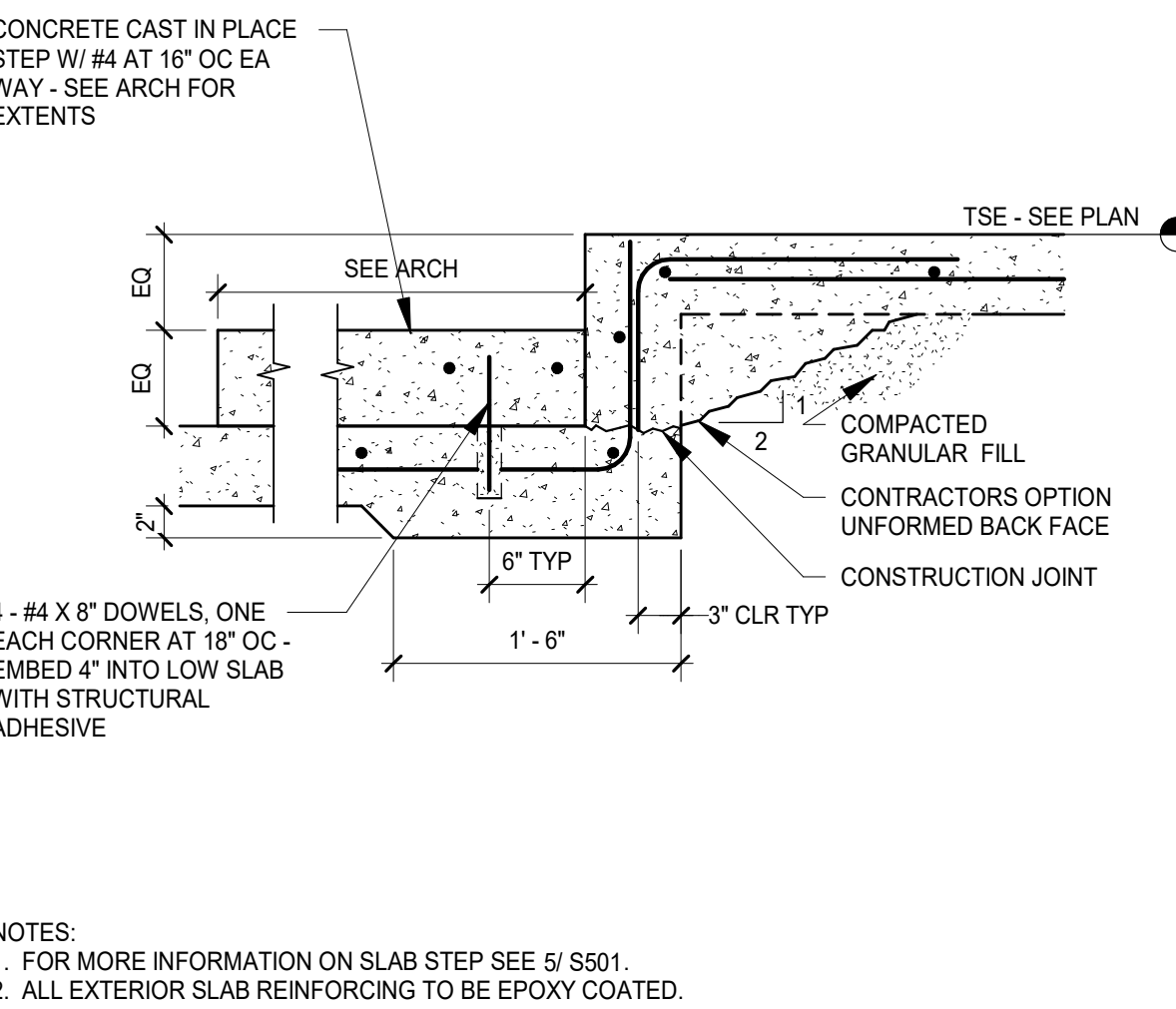
NOTES:

1. WHERE MOMENT CONNECTED BEAM IS SHALLOWER, AT CONTRACTOR'S OPTION, END PLATE CONNECTION MAY BE USED WITH FULL BEARING AT BOTTOM FLANGE IN LIEU OF SHEAR CONNECTION AND BOTTOM PLATE. TOP PLATE IS REQUIRED.
2. SEE TYPICAL BEAM MOMENT CONNECTION SCHEDULE FOR PLATE AND WELD INFORMATION.



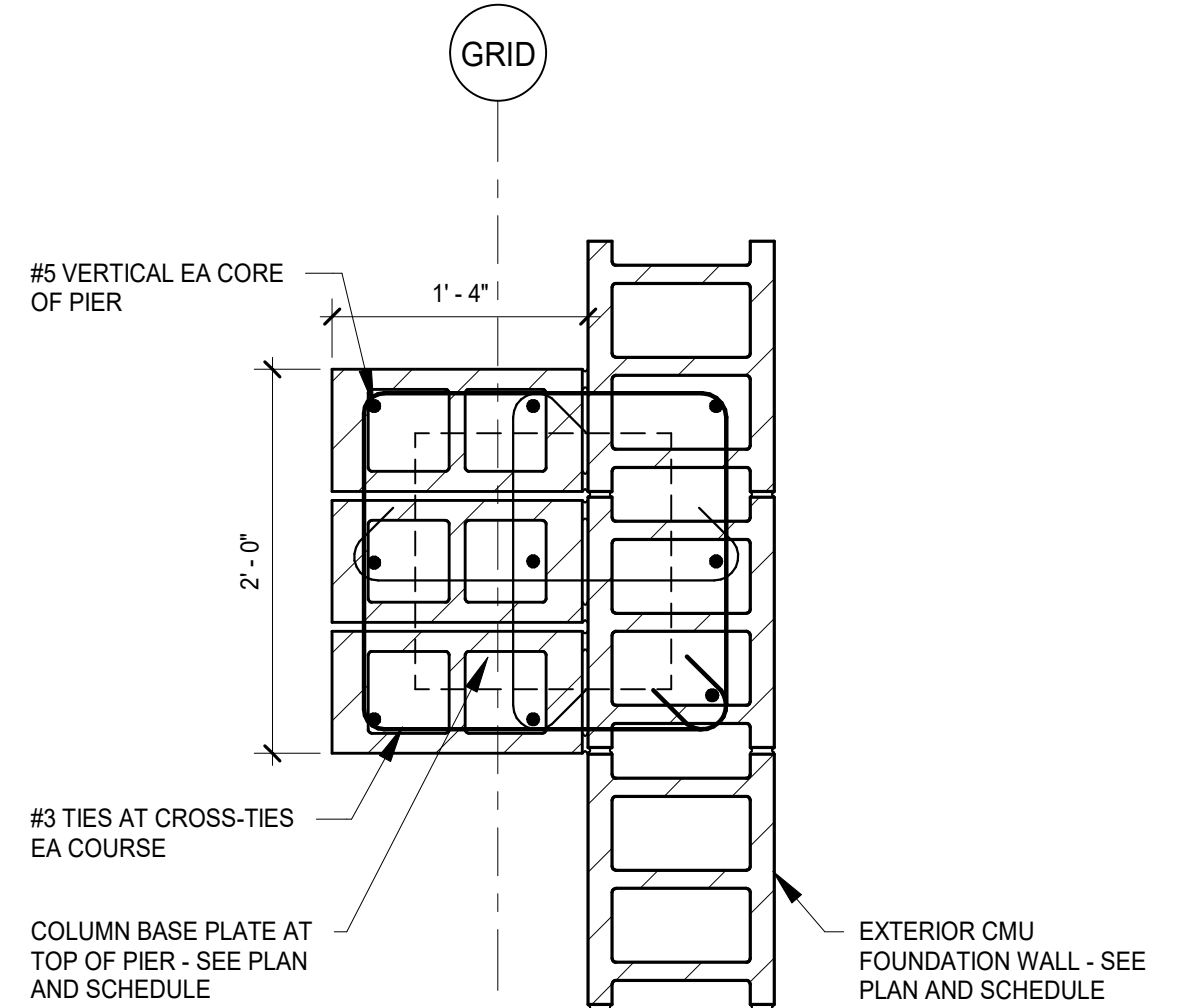
1
S501
1/2" = 1'-0"

TYPICAL CONCRETE STOOP DETAIL



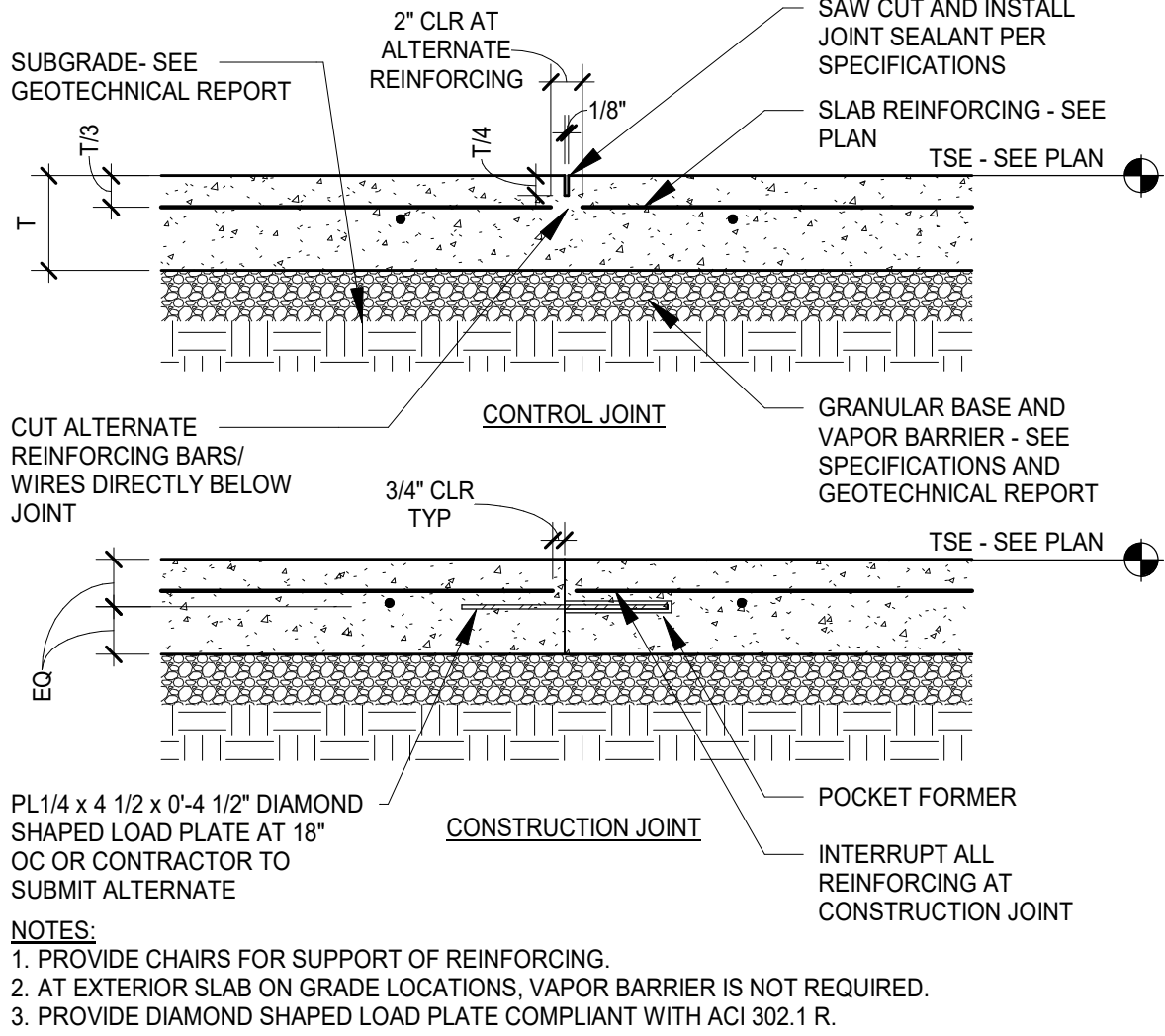
6
S501
1" = 1'-0"

SECTION AT EXTERIOR SLAB STEP



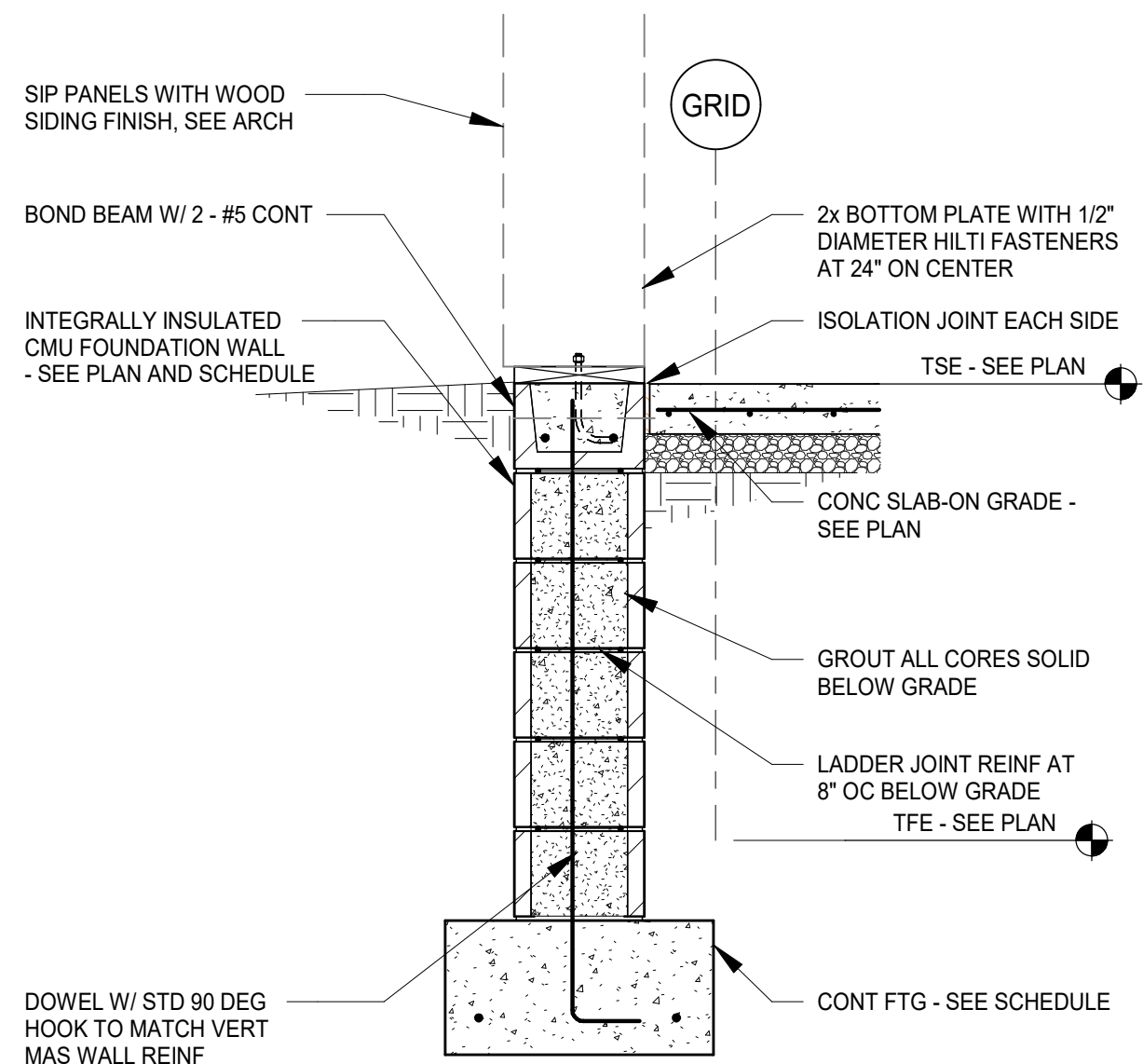
10
S501
1" = 1'-0"

PLAN DETAIL AT CMU PIER



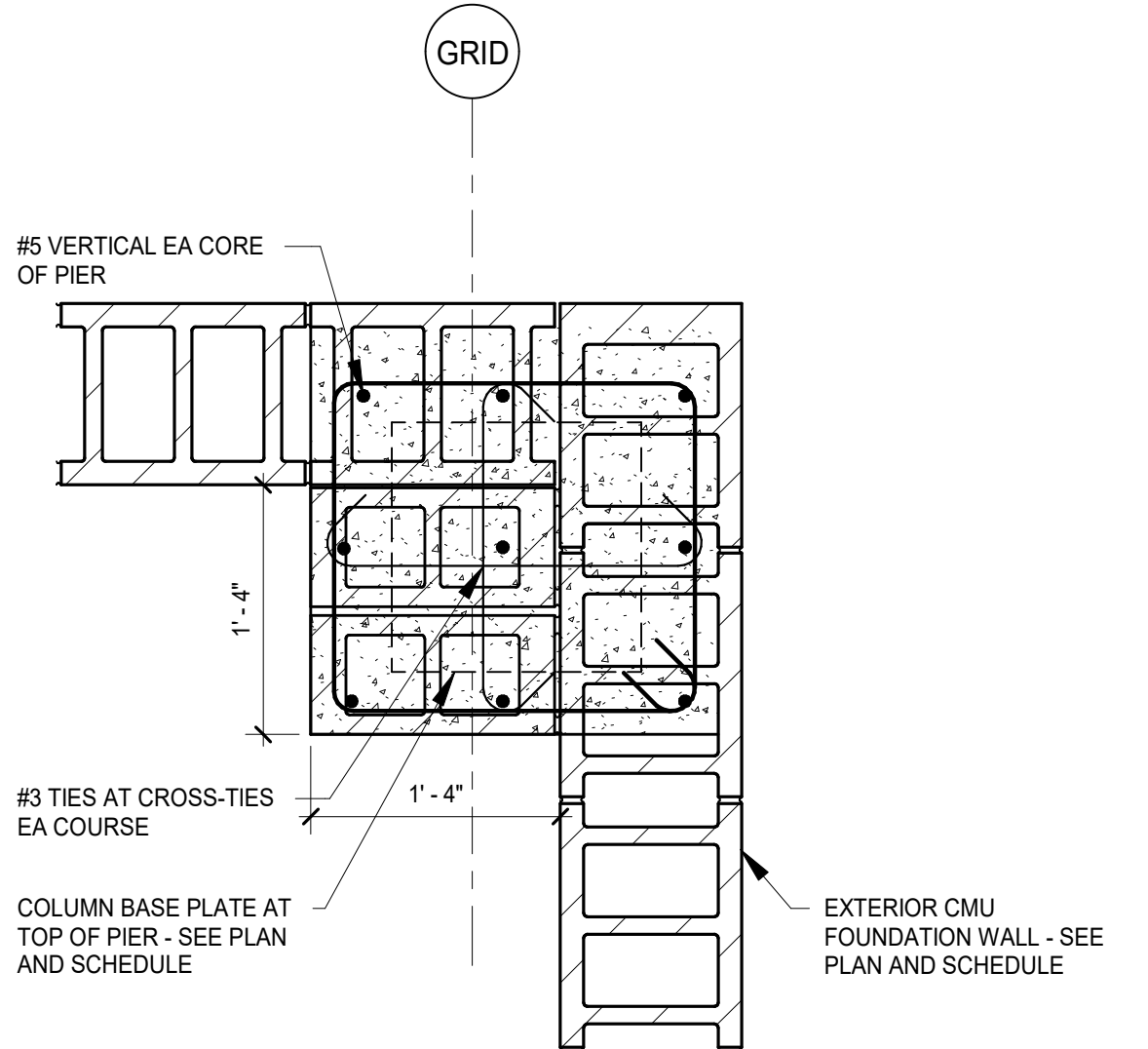
2
S501
1" = 1'-0"

TYPICAL SLAB ON GRADE CONSTRUCTION



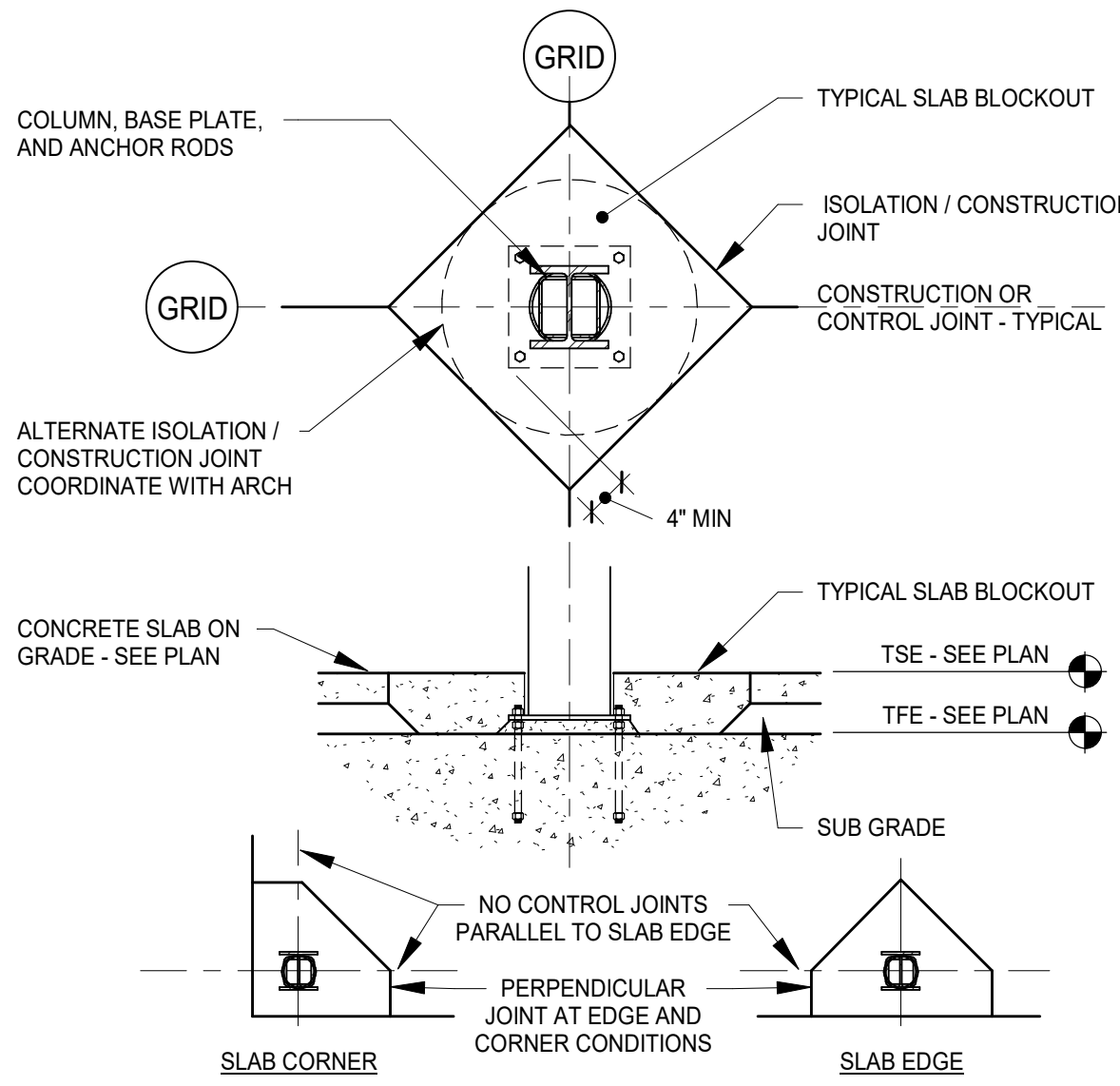
7
S501
3/4" = 1'-0"

TYP EXTERIOR WALL FND DETAIL



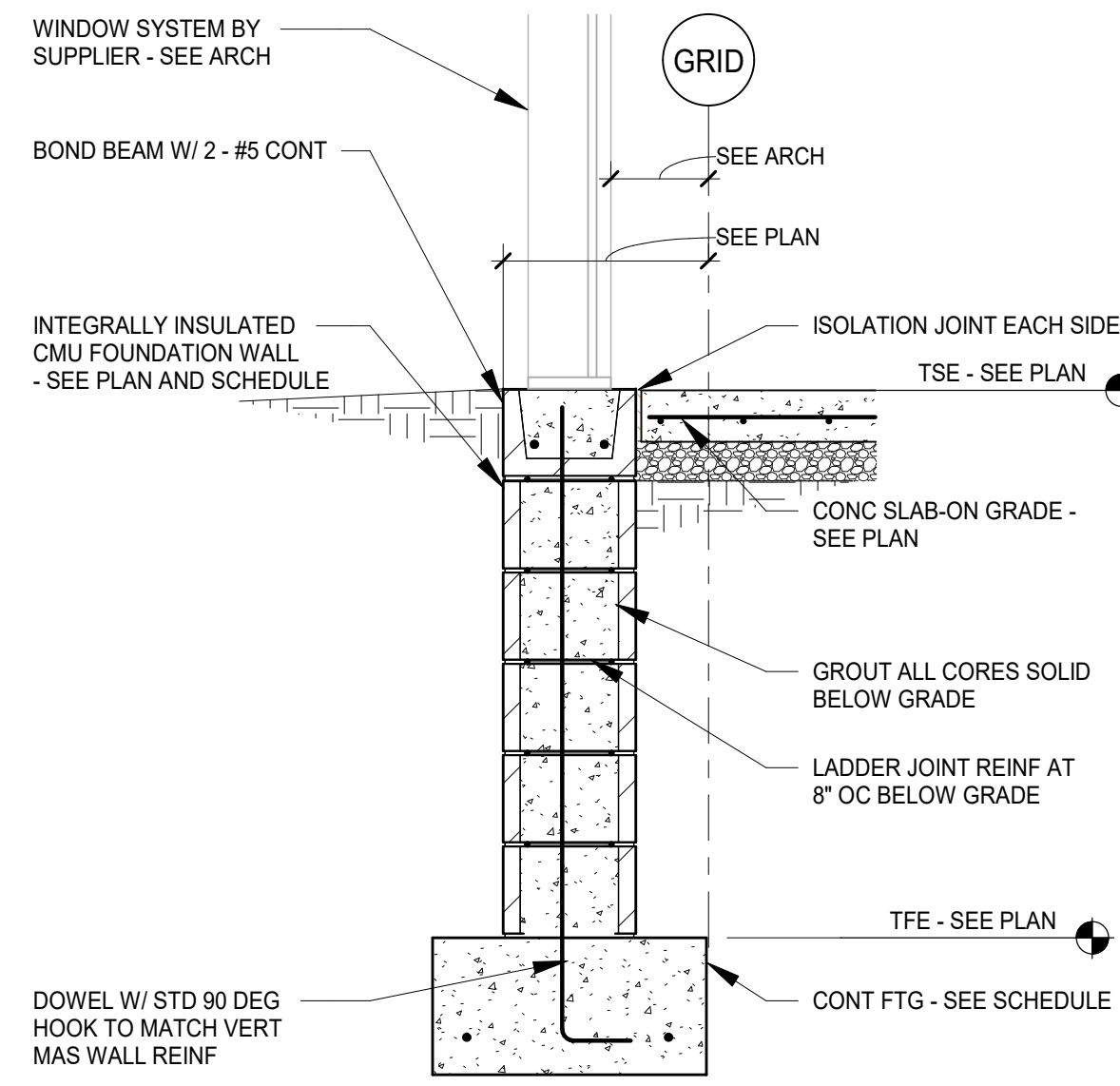
11
S501
1" = 1'-0"

PLAN DETAIL AT CORNER CMU PIER



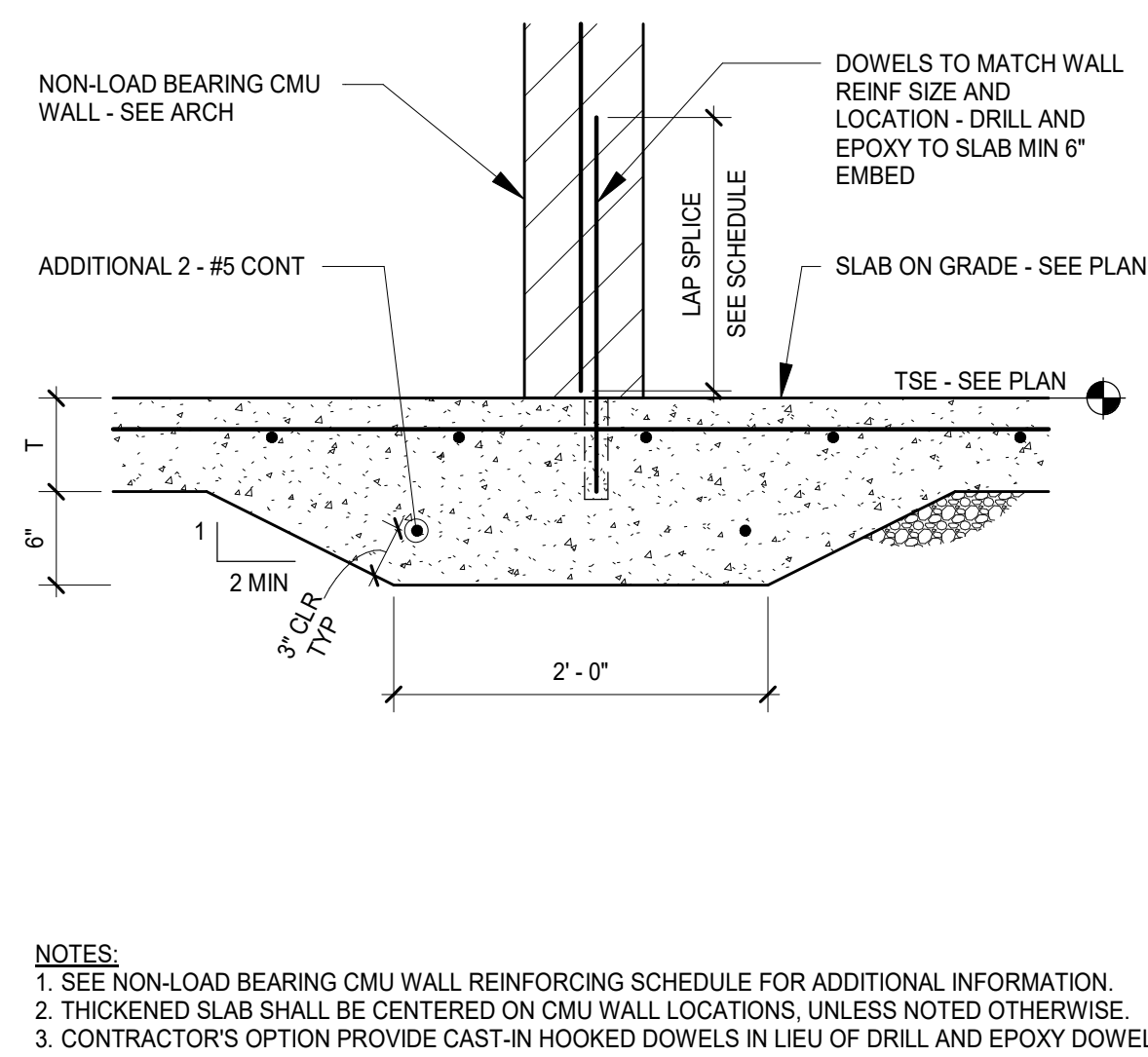
3
S501
1/2" = 1'-0"

TYPICAL COLUMN ISOLATION JOINT



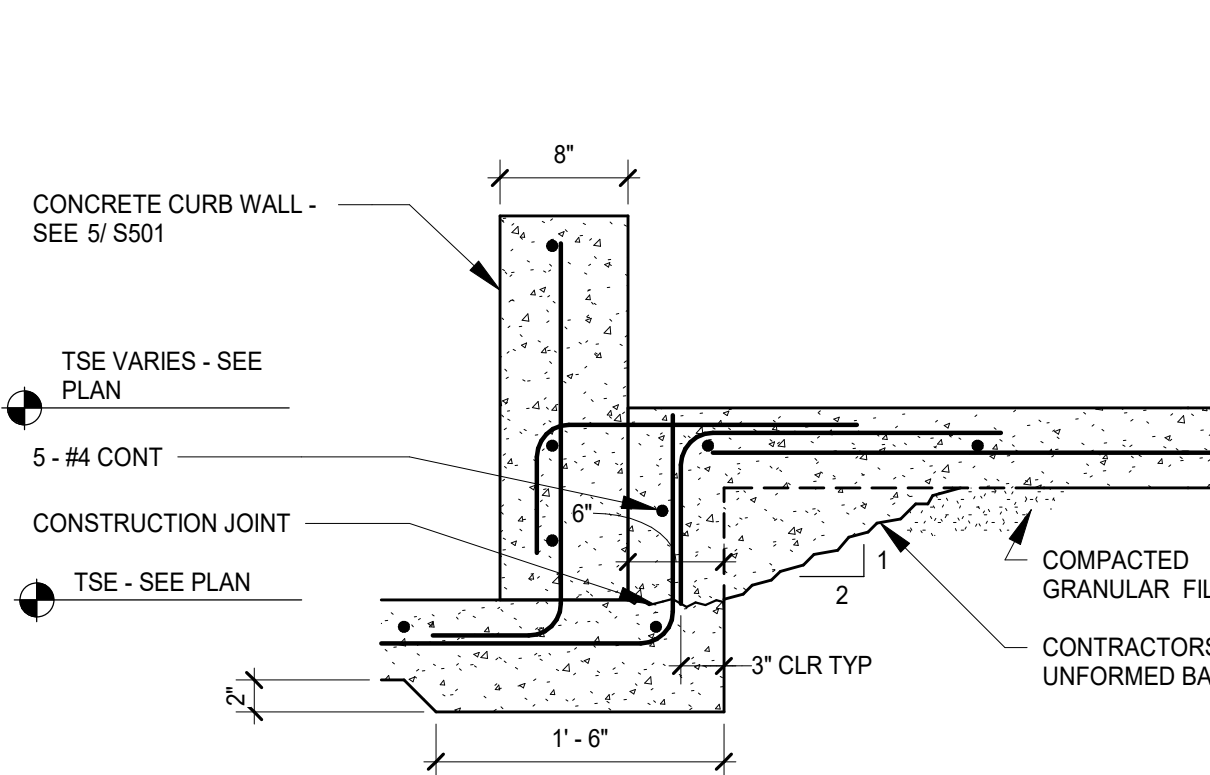
8
S501
3/4" = 1'-0"

TYP EXTERIOR WALL FND DETAIL



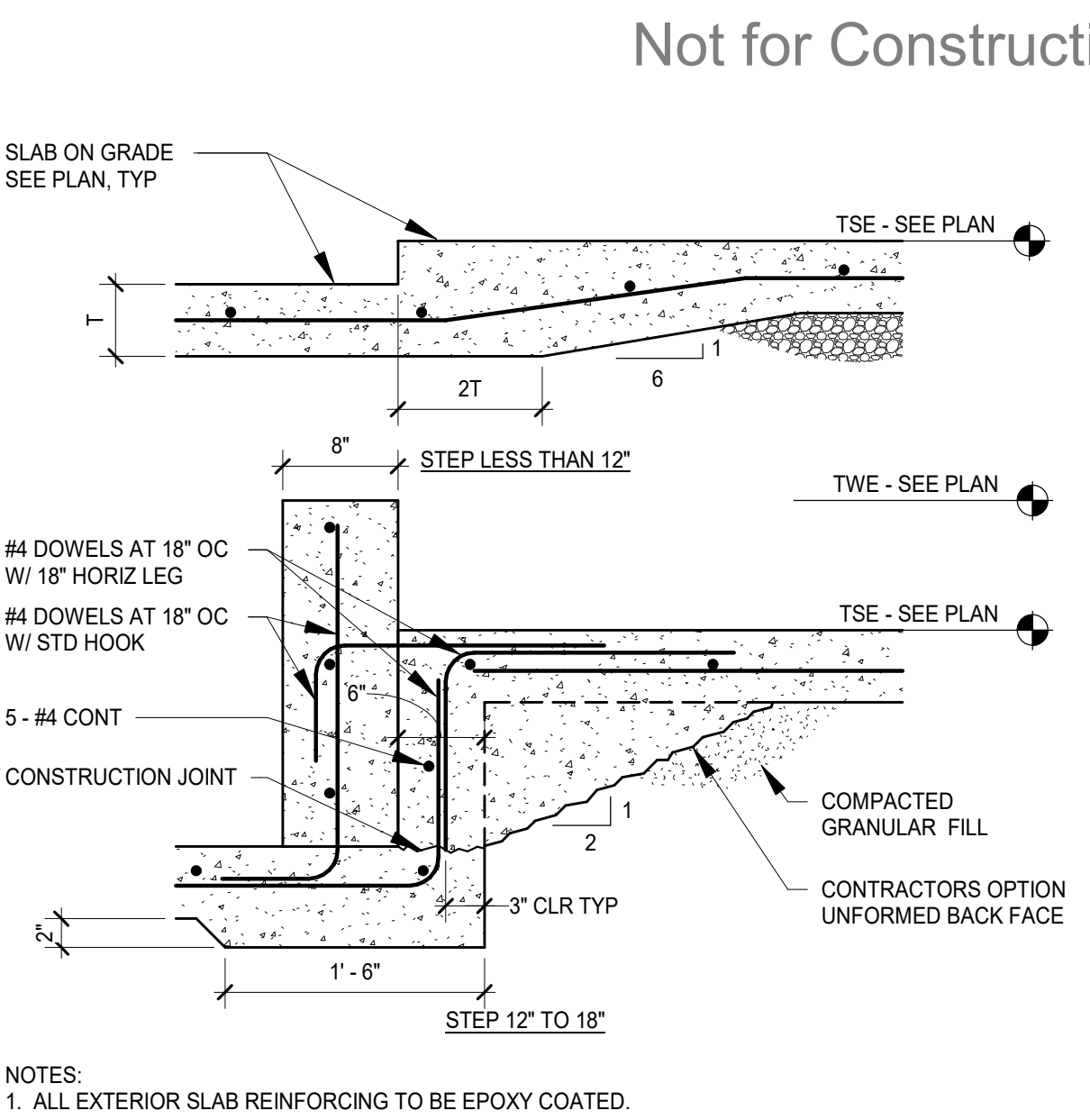
4
S501
1" = 1'-0"

TYPICAL THICKENED SLAB ON GRADE AT INTERIOR NON-LOAD BEARING CMU WALL DETAIL



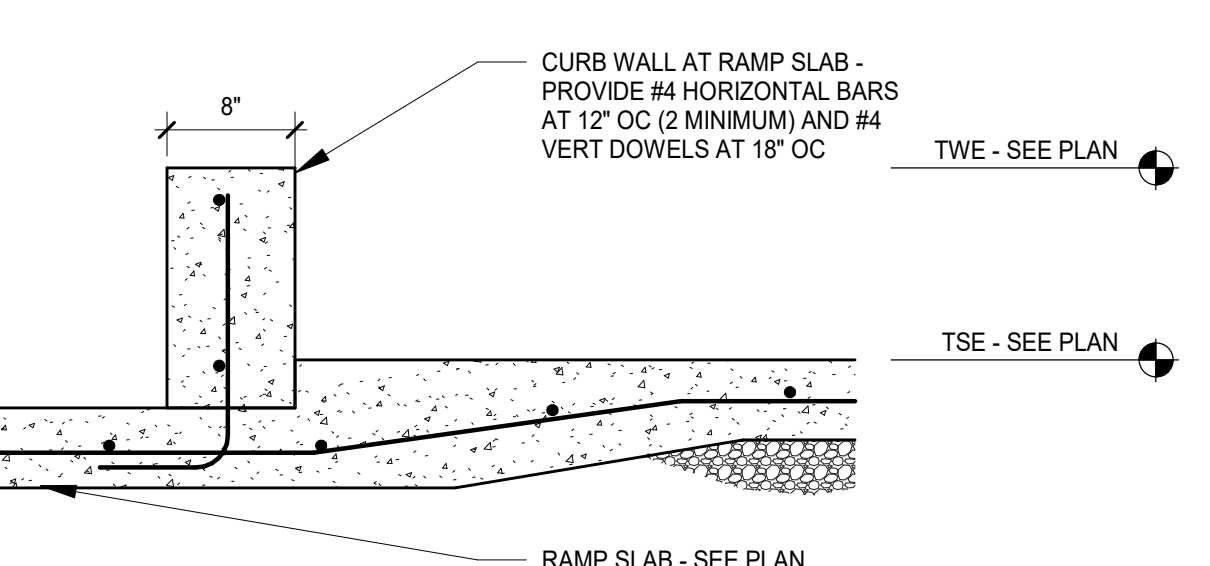
9
S501
1" = 1'-0"

SECTION THROUGH RAMP SLAB

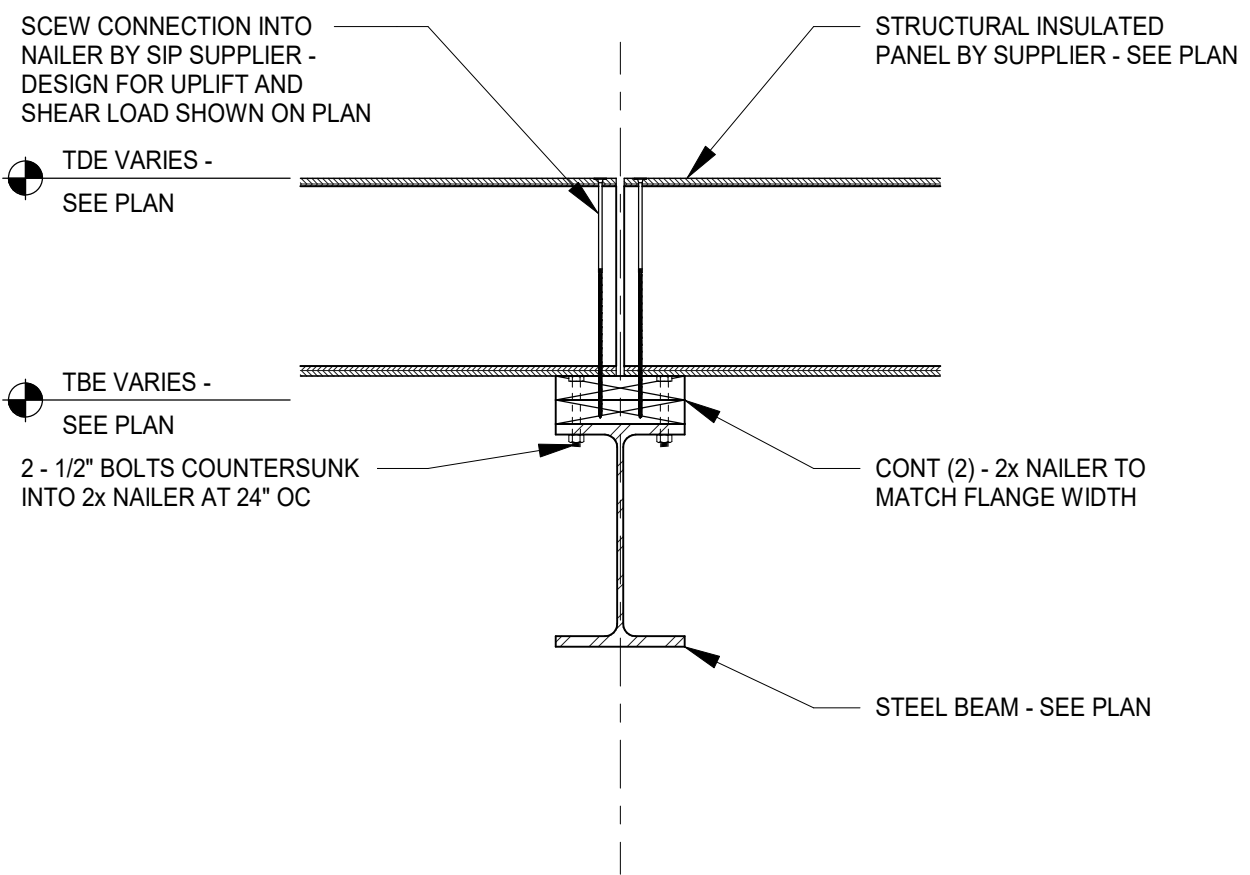


5
S501
1" = 1'-0"

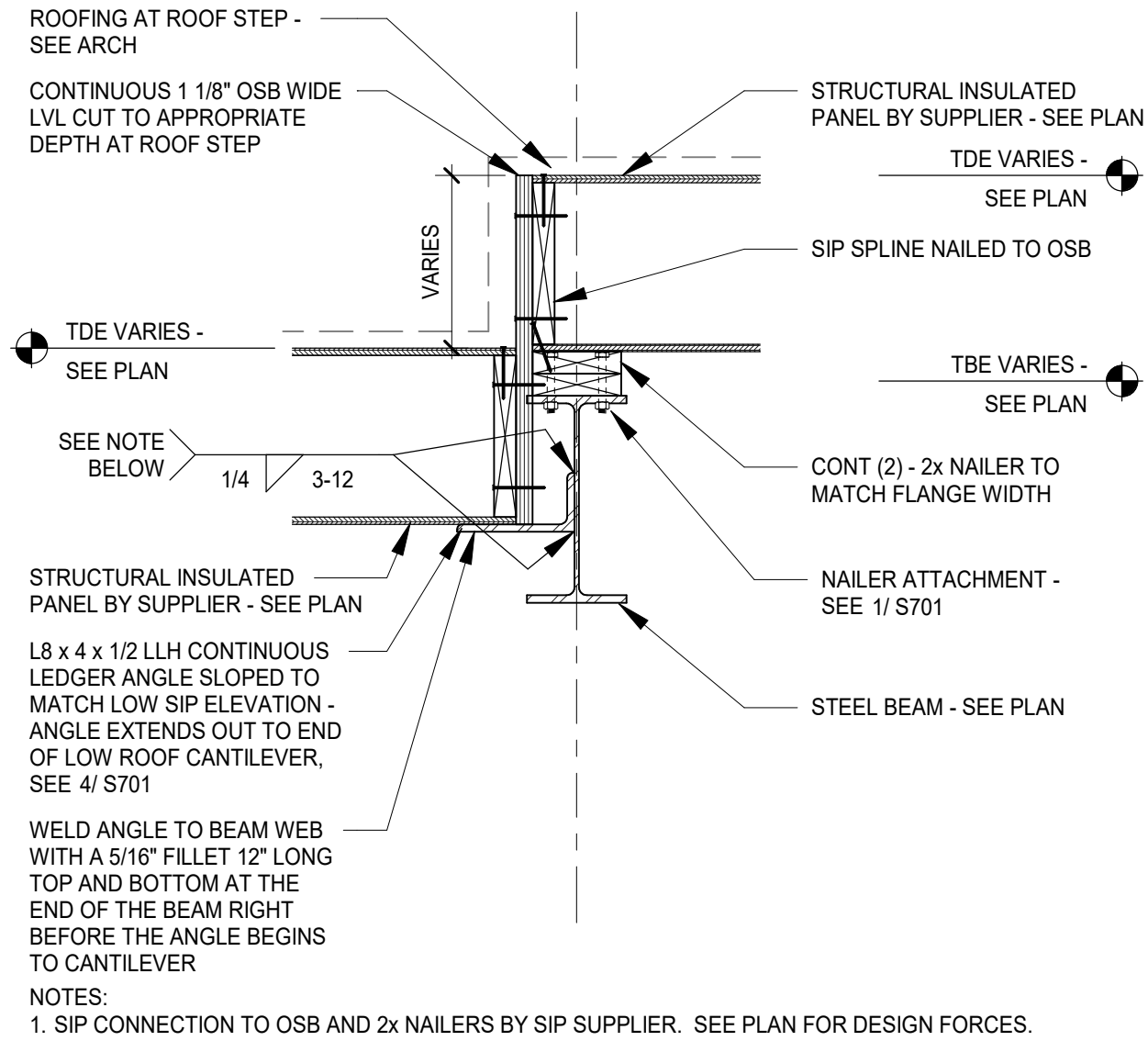
TYPICAL SECTION AT SLAB ON GRADE STEPS



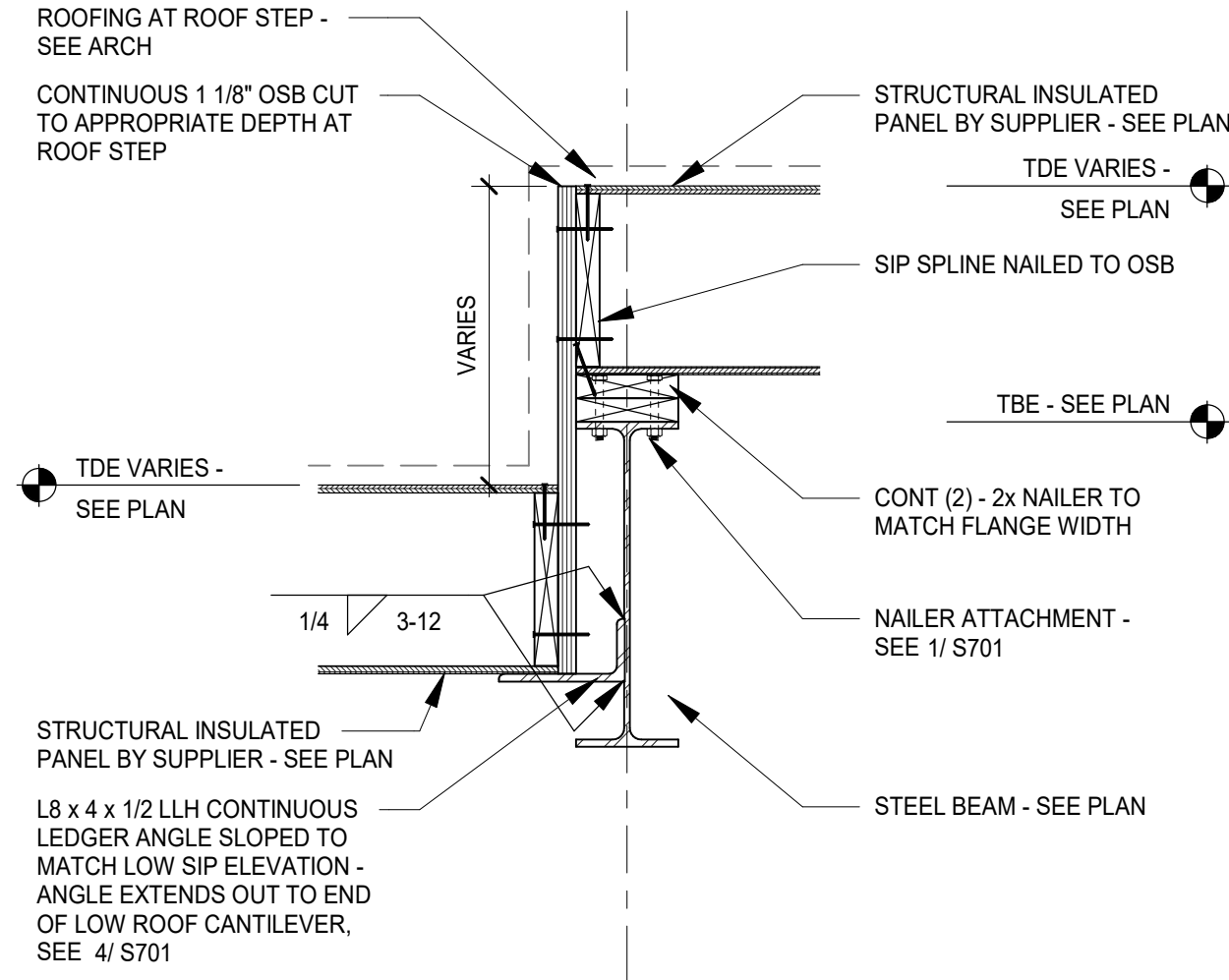
REVISIONS:		
No.	Date	Description



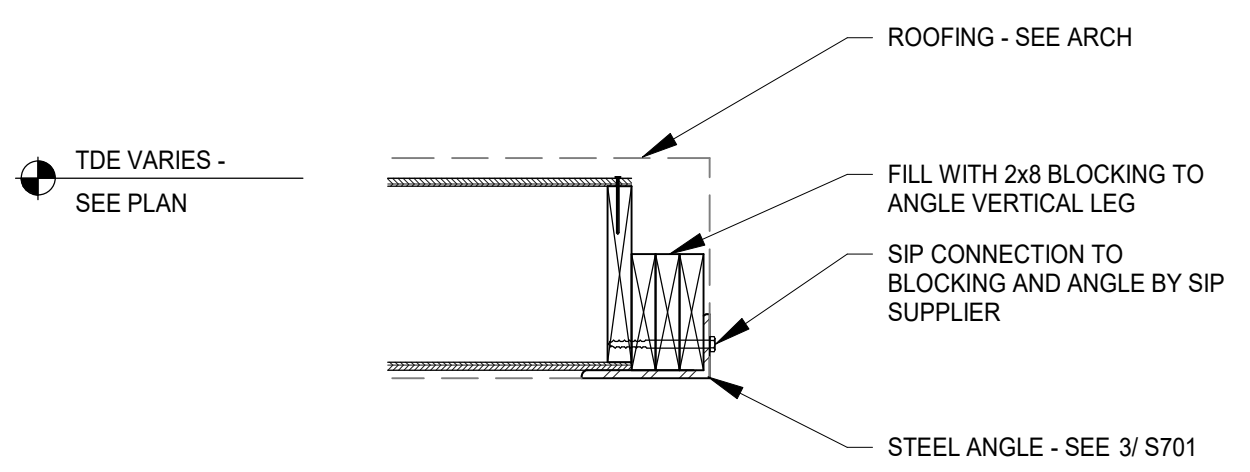
1
S701
SECTION AT SIP ON STEEL BEAM
1" = 1'-0"



2
S701
SECTION AT ROOF STEP
1" = 1'-0"

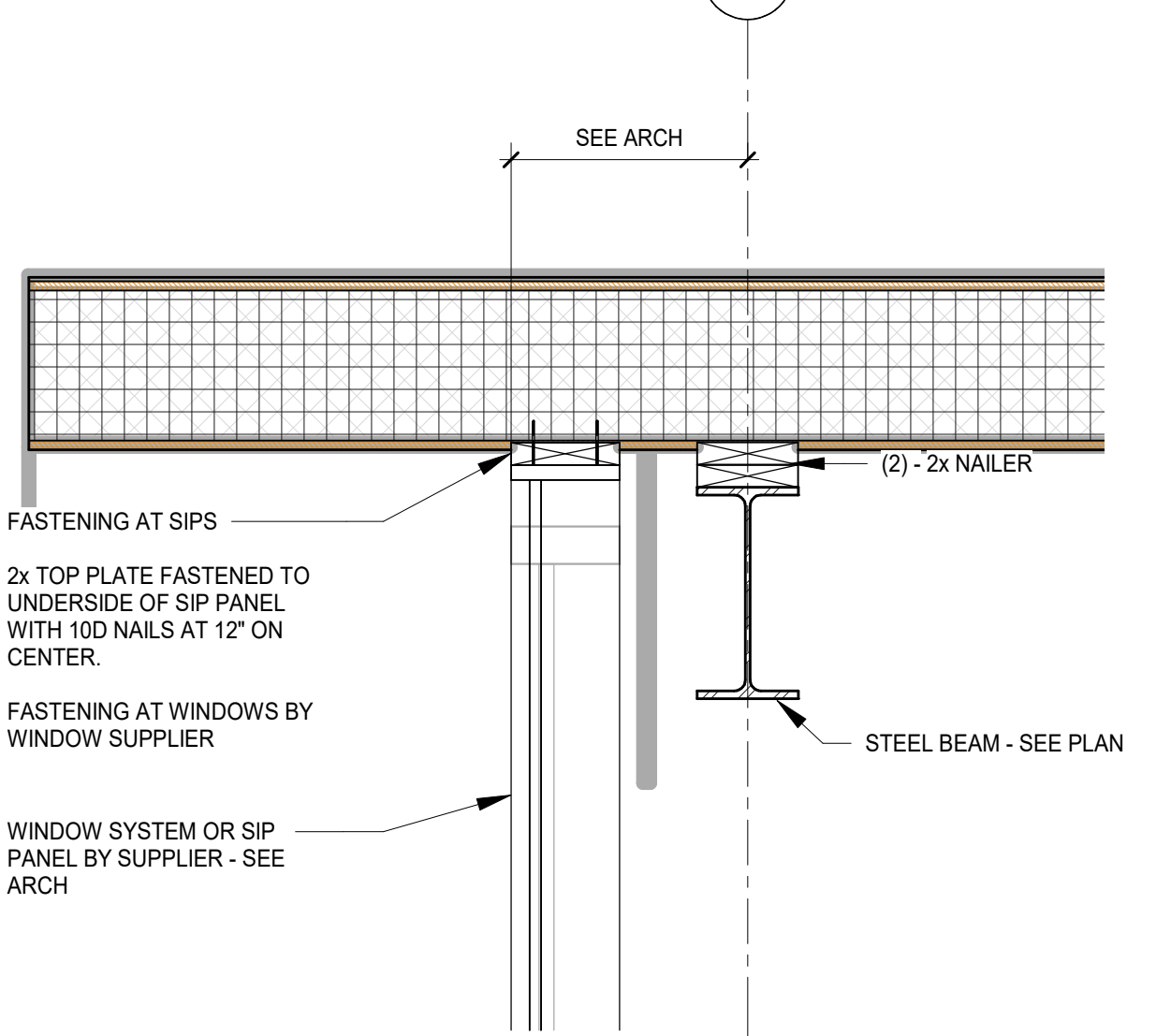


3
S701
SECTION AT ROOF STEP
1" = 1'-0"

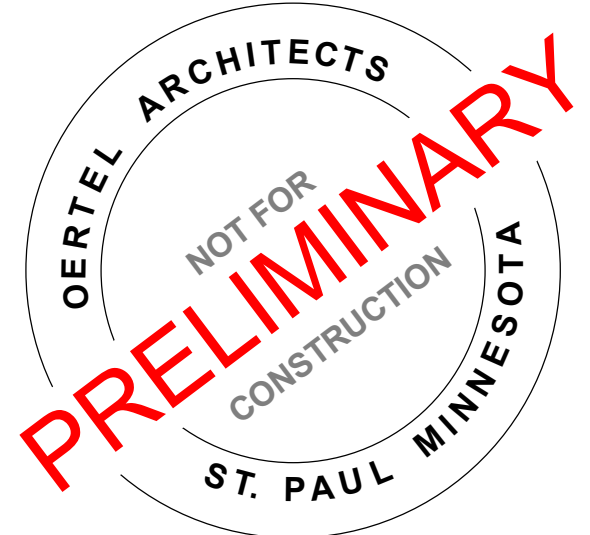


NOTES:
1. SIP CONNECTION TO OSB AND 2x NAILERS BY SIP SUPPLIER. SEE PLAN FOR DESIGN FORCES.

4
S701
SECTION AT LOW SIP PANEL CANTILEVER
1" = 1'-0"



5
S701
SECTION AT ROOF
1" = 1'-0"



PROJECT NAME:
Moore Lake Park Building
City of Fridley

5872 NE CENTRAL AVE., FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ANDREW REBERG

4
LICENSE # DATE

SHEET NAME:

FRAMING
DETAILS

REVISIONS:		
No.	Date	Description

22-25 Designer
PROJECT NUMBER DATE
JJH ASR
DRAWN BY CHECKED BY

SHEET NO:

S701

5872 NE CENTRAL AVE,
FRIDLEY MN

CONSULTANT



EDU-DOLE IS #22 47

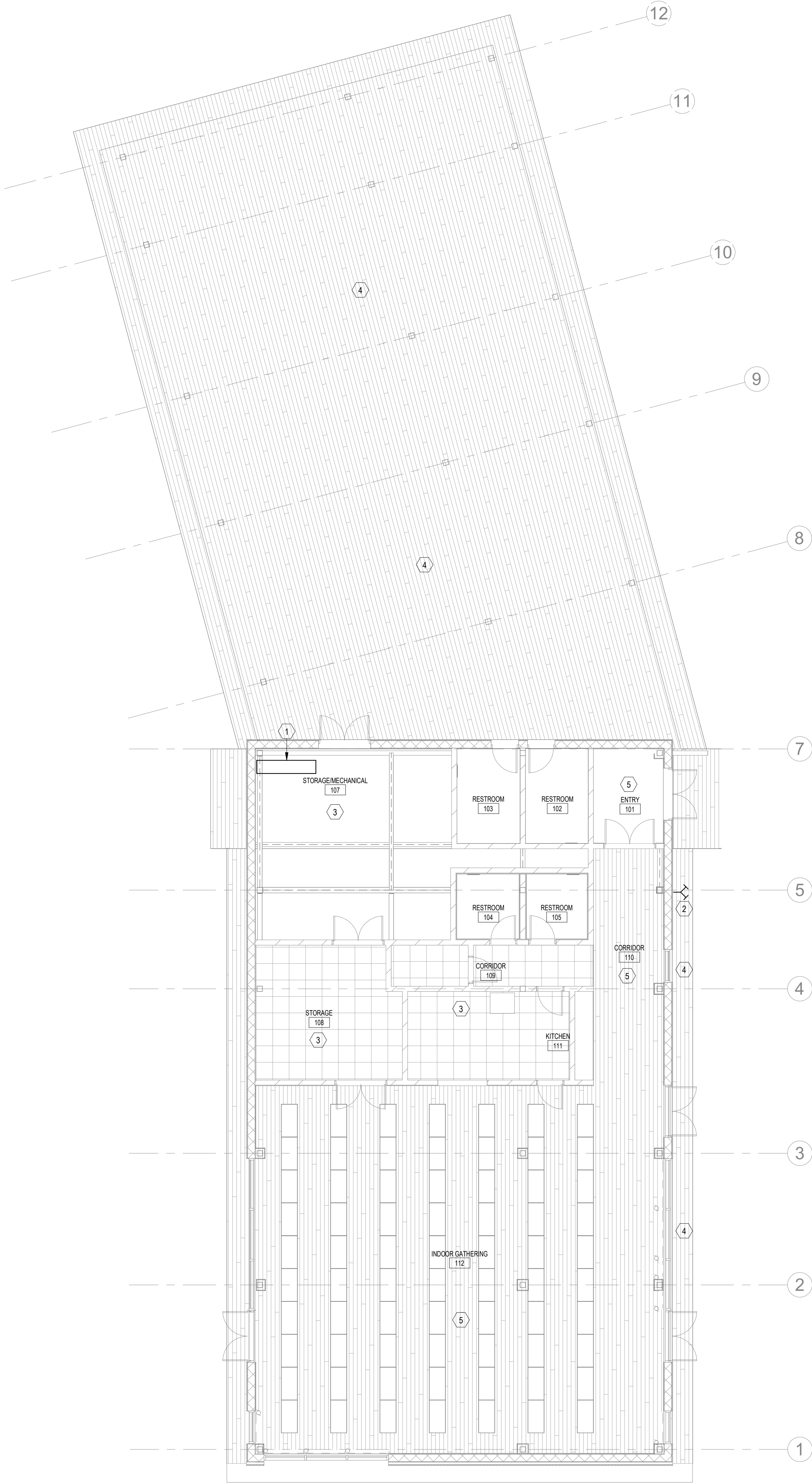


CONSULTANT:



NOTES:
70% CONSTRUCTION DOCUMENTS

Not for Construction



GENERAL NOTES

- THIS DRAWING IS A BID DOCUMENT AND IS NOT A DESIGN DRAWING. CONFIRMATION OF FINAL DESIGN VIA SHOP DRAWINGS, HYDRAULIC CALCULATIONS, PRODUCT SUBMITTALS, ETC. IS THE SOLE RESPONSIBILITY OF THE FIRE PROTECTION DESIGN/BUILD CONTRACTOR.
- REFER TO ARCHITECTURAL PLANS FOR COMPLETE CEILING/FLOOR/ROOM PLAN INFORMATION.
- ALL AREAS SHALL BE DESIGNED AS LIGHT HAZARD OCCUPANCY UNLESS INDICATED OTHERWISE OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- PROVIDE PROTECTION ABOVE AND BELOW OBSTRUCTIONS AS REQUIRED, WHETHER INDICATED OR NOT.
- ALL SPRINKLERS LOCATED IN FINISHED AREAS SHALL BE SYMMETRICAL IN PATTERN FOR THE AREA SERVED.
- HIGH TEMPERATURE SPRINKLERS SHALL BE PROVIDED NEAR ALL HEAT PRODUCING EQUIPMENT IN ACCORDANCE WITH NFPA 13.
- DRY TYPE PENDANT AND SIDEWALL SPRINKLER HEADS SHALL FOLLOW THE MANUFACTURER'S REQUIREMENTS FOR THE MINIMUM BARREL LENGTH IN THE HEATED AREA.
- PROVIDE AUXILIARY DRAINS WITH PIPING TO APPROVED LOCATIONS FOR ALL TRAPPED PIPING. DRAIN PIPING SHALL BE SIZED PER NFPA 13 REQUIREMENTS.
- ALL WALL AND FLOOR PENETRATIONS WITH FIRE PROTECTION PIPING SHALL BE FULLY SLEEVED AND SEALED.
- APPROVED THROUGH PENETRATION FIRE STOP SYSTEMS SHALL BE USED FOR ALL RATED WALLS AND FLOORS TO MAINTAIN RATING.
- NO STORAGE IS PERMITTED IN MECHANICAL OR ELECTRICAL ROOMS.
- EXTENDED COVERAGE SPRINKLERS SHALL NOT BE INSTALLED IN MECHANICAL ROOMS.
- DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS ALLOWED BY NFPA 13 SHALL NOT APPLY TO AREAS WITH CLOUD CEILINGS.
- ALL MATERIALS USED IN THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE NEW AND OF CURRENT ISSUE, APPROVED BY U.L. AND/OR F.M. AND THE AUTHORITIES HAVING JURISDICTION.
- ALL FIRE PROTECTION WET AND DRY TYPE SYSTEM PIPING SHALL BE STEEL. DRY TYPE SYSTEM PIPING SHALL BE SCHEDULE 40.
- WHERE NEW SPRINKLER HEADS ARE INSTALLED IN AREAS WITH CEILINGS THEY SHALL BE CENTERED IN THE CEILING TILES.
- FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING FINAL SPRINKLER TYPES. LOCATIONS AND FINISHES IN ALL AREAS WITH ARCHITECT.
- TAMPER SWITCHES AND FLOW SWITCHES SHALL BE FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR. WIRING OF SUCH DEVICES IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. COORDINATE ALL FIRE PROTECTION WORK WITH FIRE ALARM CONTRACTOR.

PLAN NOTES

- LOCATION OF NEW FIRE PROTECTION WATER SERVICE ENTRANCE, RISER ASSEMBLY AND DRY PIPE SYSTEM AIR COMPRESSOR. DRY SYSTEM SHALL SERVE COMBUSTIBLE CANOPY.
- LOCATION OF NEW FIRE DEPARTMENT CONNECTION.
- MINIMUM OCCUPANCY CLASSIFICATION FOR BIDDING PURPOSES: ORDINARY HAZARD GROUP I.
- PROVIDE DRY PIPE SPRINKLER PROTECTION TO EXTERIOR CANOPY WHERE REQUIRED BY NFPA, OWNER'S INSURANCE OR AUTHORITIES HAVING JURISDICTION.
- DECORATIVE CEILING IN THIS AREA. COORDINATE SPRINKLER HEADS AND PIPING WITH ARCHITECT.

PROJECT NAME:

Moore Lake Park Building
City of Fridley

5872 NE CENTRAL AVE., FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: STEVE S SCHREURS

19622 02/03/23

LICENSE # DATE

SHEET NAME:

MAIN FLOOR PLAN
- FIRE
PROTECTION

REVISIONS:

No.	Date	Description

22-25 02/03/23

PROJECT NUMBER DATE

AE, LS SSS
DRAWN BY CHECKED BY

SHEET NO:

M1.1



CONSULTANT:



NOTES:
70% CONSTRUCTION DOCUMENTS

Not for Construction

PROJECT NAME:
Moore Lake Park Building
City of Fridley

5872 NE CENTRAL AVE., FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: STEVE S SCHREURS

19622 02/03/23
LICENSE # DATE

SHEET NAME:

UNDERFLOOR
PLAN - PLUMBING

REVISIONS:		
No.	Date	Description

22-25 02/03/23

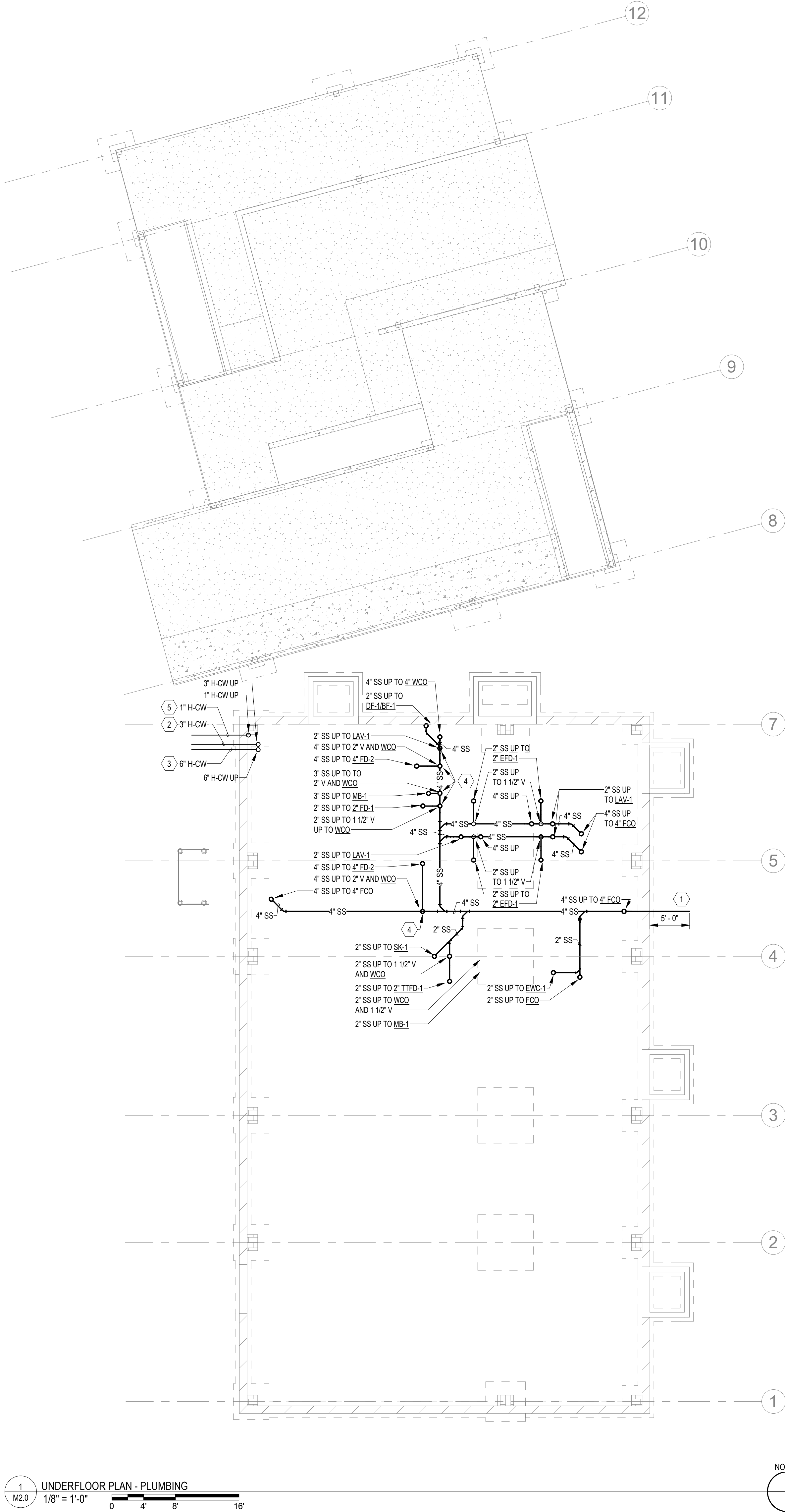
PROJECT NUMBER DATE

AE, LS SSS

DRAWN BY CHECKED BY

SHEET NO:

M2.0





CONSULTANT:



NOTES:
70% CONSTRUCTION DOCUMENTS

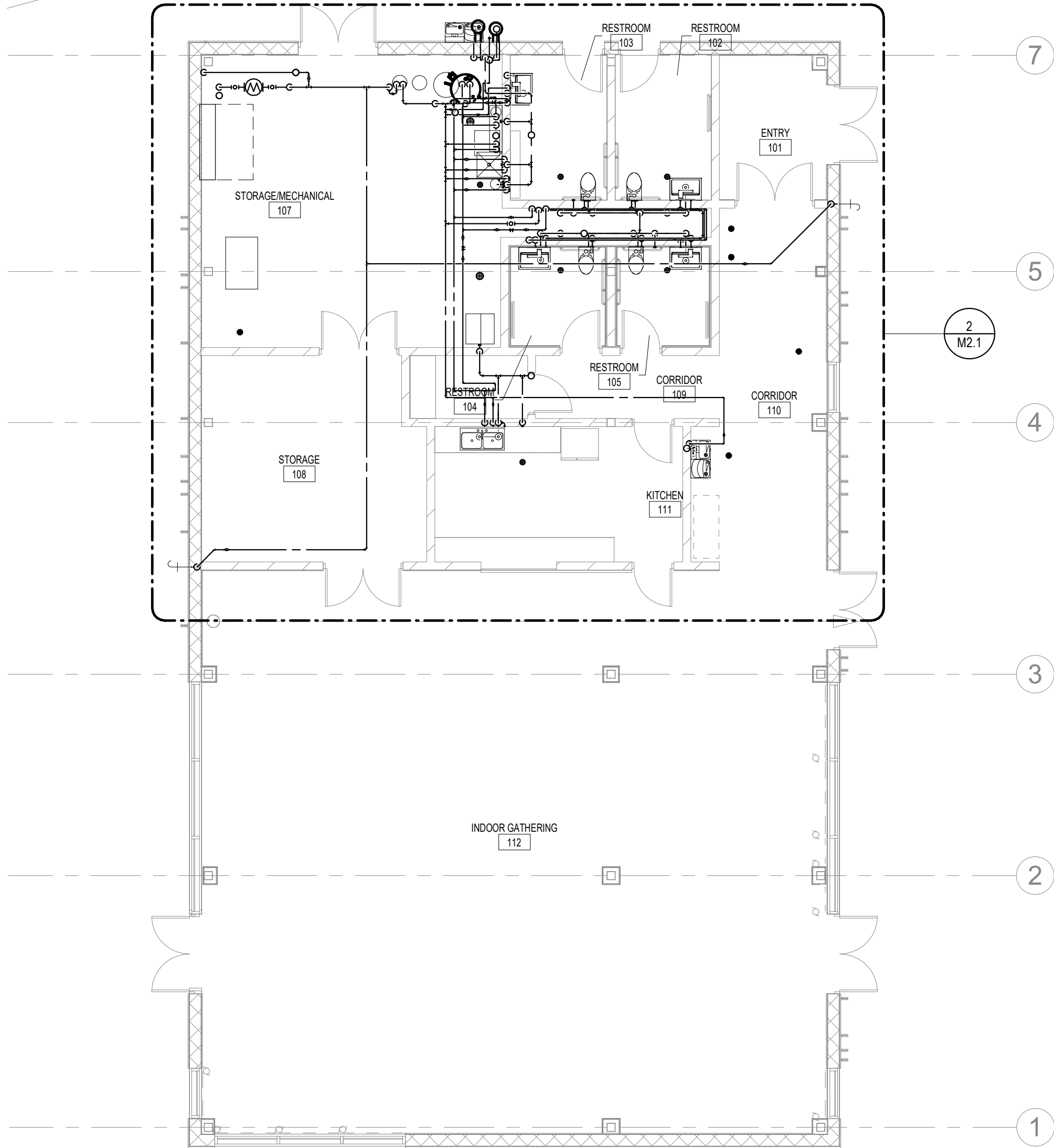
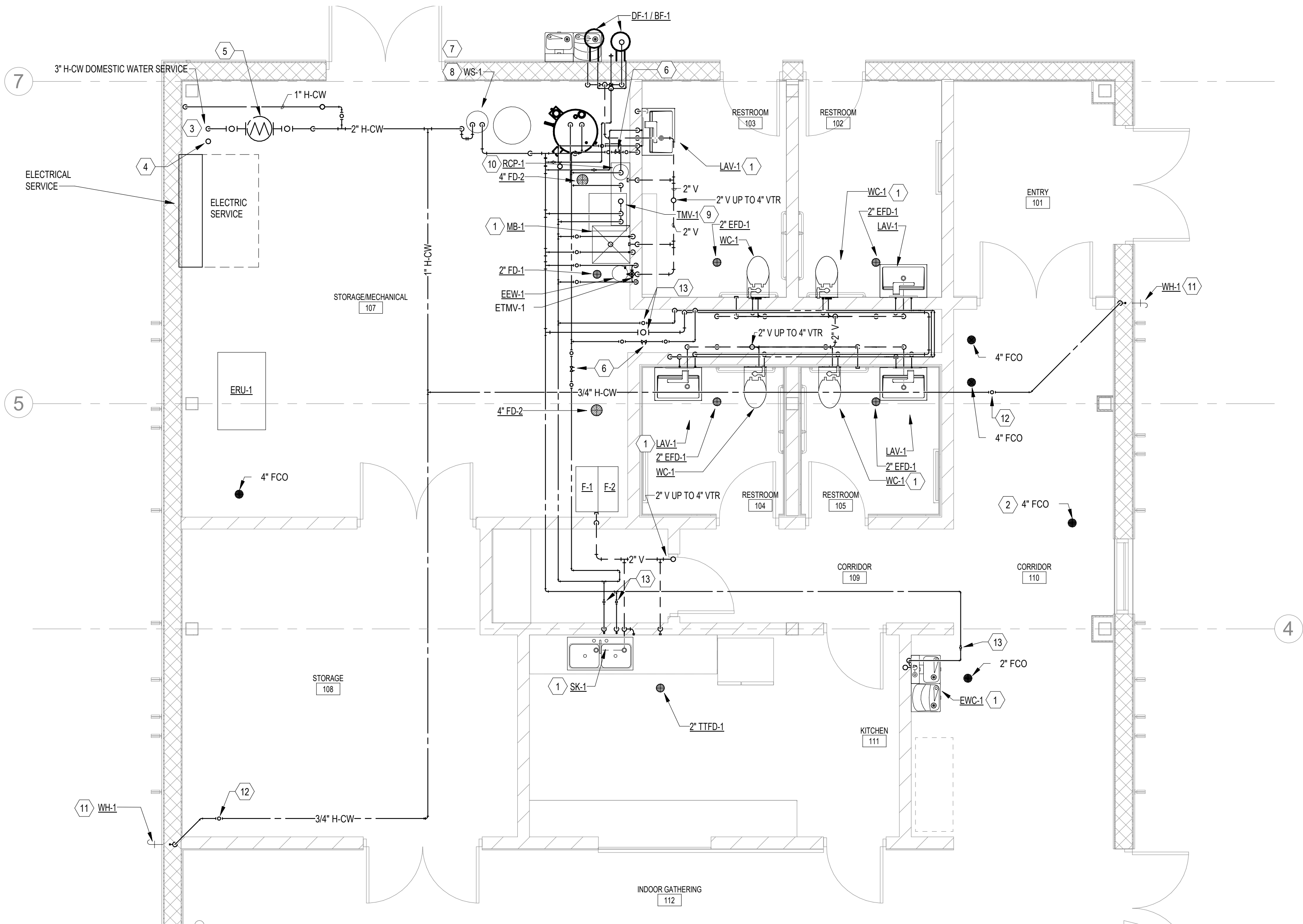
Not for Construction

GENERAL NOTES

- PROVIDE A WALL OR FLOOR CLEANOUT AS REQUIRED TO SERVE EACH PLUMBING FIXTURE, SPECIALTY DEVICE, ETC. THAT HAS A NON-ACCESSIBLE TRAP, TYPICAL.
- PROVIDE A WALL CLEANOUT AT THE VERTICAL DRAIN, TO SERVE EACH SINK, IN ACCORDANCE WITH CODE REQUIREMENTS. TYPICAL.
- PROVIDE A WALL CLEANOUT AT THE VERTICAL DRAIN, ABOVE THE WASTE CONNECTION TO EACH URINAL IN ACCORDANCE WITH CODE REQUIREMENTS. TYPICAL.
- PROVIDE A FULL SIZE CLEANOUT AT THE BASE OF EACH SOIL, WASTE, OR STORM DRAIN STACK. CLEANOUT TO BE LOCATED AT 18" A.F.F. PROVIDE A CLEANOUT COVER PLATE WHERE STACKS ARE LOCATED IN WALLS.
- WASTE AND VENT PIPING BELOW GROUND FLOOR SLAB AND THROUGH FLOOR SHALL BE 2" MINIMUM. REFER TO PIPE HANGER AND SUPPORT DETAIL ON SHEET M7.1 INDICATING INSTALLATION REQUIREMENTS, TYPICAL.
- REFER TO PIPE PENETRATION DETAIL ON SHEET M7.1 FOR PIPE PENETRATION INSTALLATION REQUIREMENTS, TYPICAL.
- REFER TO WASTE AND VENT RISER DIAGRAMS AND DOMESTIC WATER RISER DIAGRAMS FOR ADDITIONAL SIZES, PIPE ROUTING, VALVES AND PLUMBING SPECIALTY DEVICES. REFER TO SHEET M6.1 FOR PLUMBING ROUGH-IN SCHEDULE. TYPICAL.
- PROVIDE SLEEVES OR CORE DRILLING FOR ALL PIPING PASSING THROUGH STRUCTURAL FOOTINGS AND FOUNDATION WALLS. REFER TO SPECIFICATION SECTION 22.0500 AND DETAIL ON SHEET M7.1 FOR ADDITIONAL INFORMATION. COORDINATE AND VERIFY EXACT LOCATIONS AND ELEVATIONS WITH STRUCTURAL. TYPICAL.
- PROVIDE A MINIMUM OF 2" (R-10) RIGID POLYSTYRENE INSULATION BOARD ON ALL BELOW GRADE SANITARY SEWER AND STORM DRAIN PIPING LOCATED OUTSIDE THE BUILDING FOUNDATION WALL. IF THE PIPING HAS LESS THAN 5'-0" COVER OVER THE TOP OF THE PIPE, INSULATION SHALL ALSO BE LOCATED ALONG EACH SIDE OF THE PIPE AT 30 DEGREE ANGLE FROM VERTICAL.

PLAN NOTES

- INDICATES PLUMBING FIXTURE OR PLUMBING SPECIALTY DEVICE. PROVIDE PLUMBING PIPING ROUGH-IN AND FINAL CONNECTIONS. REFER TO DIVISION 22 SPECIFICATIONS FOR MODEL, DESCRIPTION, AND ADDITIONAL INFORMATION, TYPICAL.
- SANITARY SEWER SERVICE CLEANOUT LEAVING BUILDING.
- 3" DOMESTIC WATER SERVICE LOCATION.
- 6" FIRE PROTECTION WATER SERVICE LOCATION.
- DOMESTIC WATER METER WITH SHUT OFF VALVES. PROVIDE A SEPERATE LAWN IRRIGATION WATER METER WITH SHUT OFF VALVES. REFER TO SPECIFICATION SECTION 22.1116 AND DETAIL ON SHEET M7.1 FOR ADDITIONAL REQUIREMENTS.
- THERMOSTATIC RECIRCULATION VALVE ASSEMBLY. REFER TO DETAIL ON SHEET M7.2 FOR ADDITIONAL REQUIREMENTS, TYPICAL.
- ELECTRIC WATER HEATER. REFER TO SPECIFICATION SECTION 22.3300, DETAIL AND SCHEDULE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- WATER SOFTENER PROVIDED BY OWNER.
- MASTER MIXING VALVE WITH RECIRCULATION PUMP. REFER TO SPECIFICATION SECTION 22.1113, AND DETAIL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- RECIRCULATION PUMP AS PART OF THE MASTER MIXING ASSEMBLY. REFER TO SPECIFICATION SECTION 22.1123, AND DETAIL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 3/4" NON-FREEZE TYPE WALL HYDRANT. REFER TO SPECIFICATION SECTION 22.1119. MOUNT WALL HYDRANT AT 18" ABOVE FINISHED GRADE. PROVIDE AN ACCESSIBLE STOP AND WASTE VALVE INSIDE BUILDING ON BRANCH LINE SERVING WALL HYDRANT. TYPICAL.
- STOP AND WASTE VALVE TO SERVE EACH WALL HYDRANT, HOSE BIBB, OR ROOF HYDRANT.
- SHUT OFF VALVE, TYPICAL UNLESS OTHERWISE NOTED.



Not for Construction

Not for Construction

 **OERTEL**
ARCHITECTS, LTD.
1795 Saint Clair Avenue
phone: (651) 696-5186
St. Paul, Minnesota 55105
www.oertelarchitects.com

CONSULTANT:

edi-doleys
consulting engineers
minneapolis | mankato

1112 North 5th Street
Minneapolis, MN 55411
(612) 343-0905

1624 North Riverfront Drive
Mankato, MN 56001
(507) 625-7009

NOTES:
70% CONSTRUCTION DOCUMENTS

Not for Construction

PROJECT NAME: **Moore Lake Park Building**
City of Fridley

5872 NE CENTRAL AVE, FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION, OR REPORT WAS
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF
MINNESOTA.

SIGNATURE: STEVE S SCHREURS

19622 02/03/23

 LICENSE # DATE

SHEET NAME:

PLUMBING RISER DIAGRAMS - WASTE AND VENT

REVISIONS:

[illegible]

22.25 02/03/23

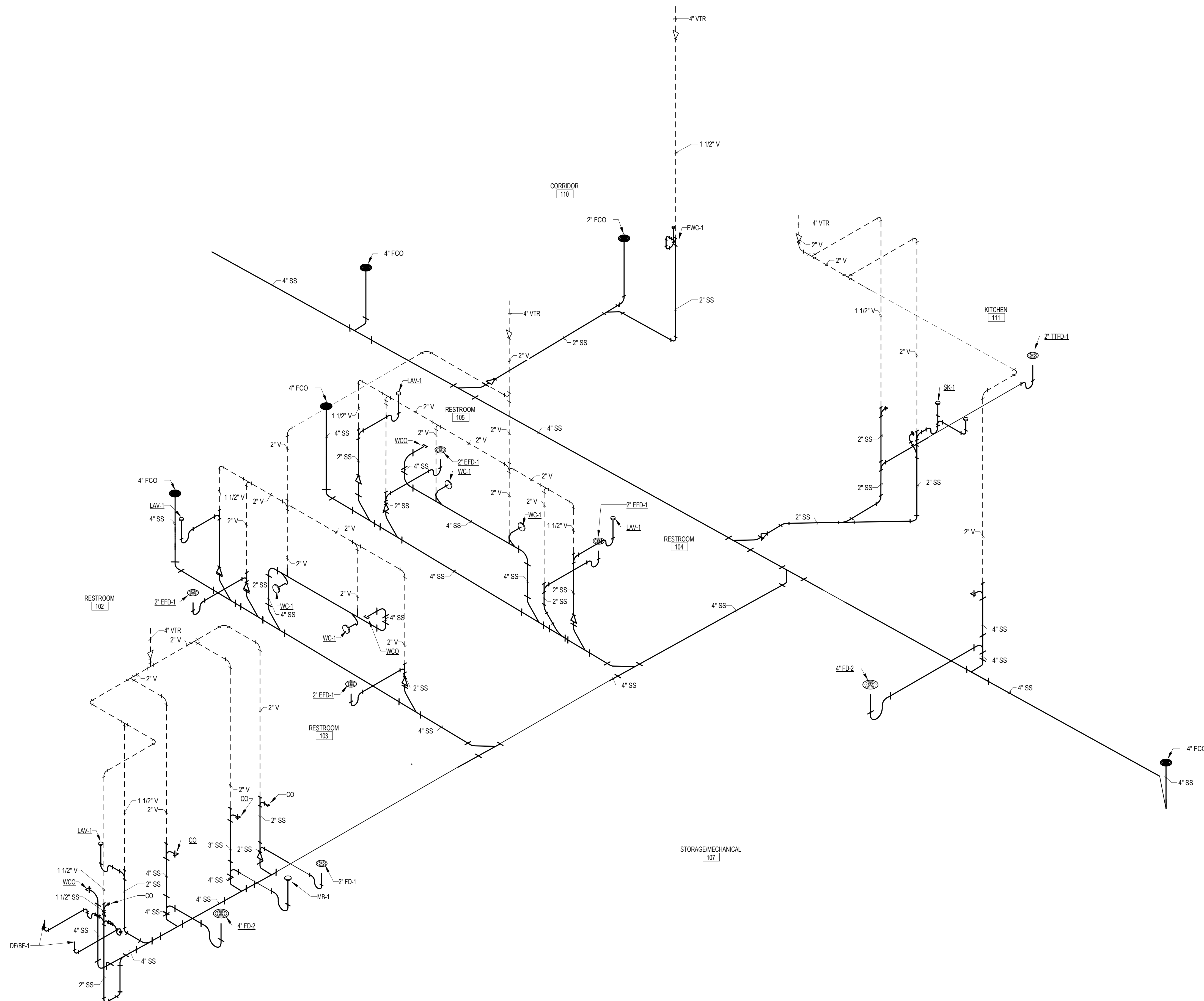
PROJECT NUMBER	DATE
----------------	------

Author _____ Checker _____
DRAWN BY _____ CHECKED BY _____

SHEET NO: _____

M2.2

EDI-DOLEJS #22, 51



1 Working-Plumbing Riser-Waste & Vent
M2.2 NOT TO SCALE

- A. REFER TO PLUMBING ROUGH-IN SCHEDULE ON SHEET M5.1 FOR PLUMBING ROUGH-IN PIPE SIZES AND ADDITIONAL INFORMATION AND REQUIREMENTS, TYPICAL.
- B. PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER SERVING SENSORED FAUCETS AND FLUSH VALVES AND ON QUICK CLOSING DEVICES. REFER TO SPECIFICATION SECTION 22.1119 FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYPICAL.
- C. REFER TO DIVISION 22 SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS, TYPICAL.

CLIENT: **City of Fridley**

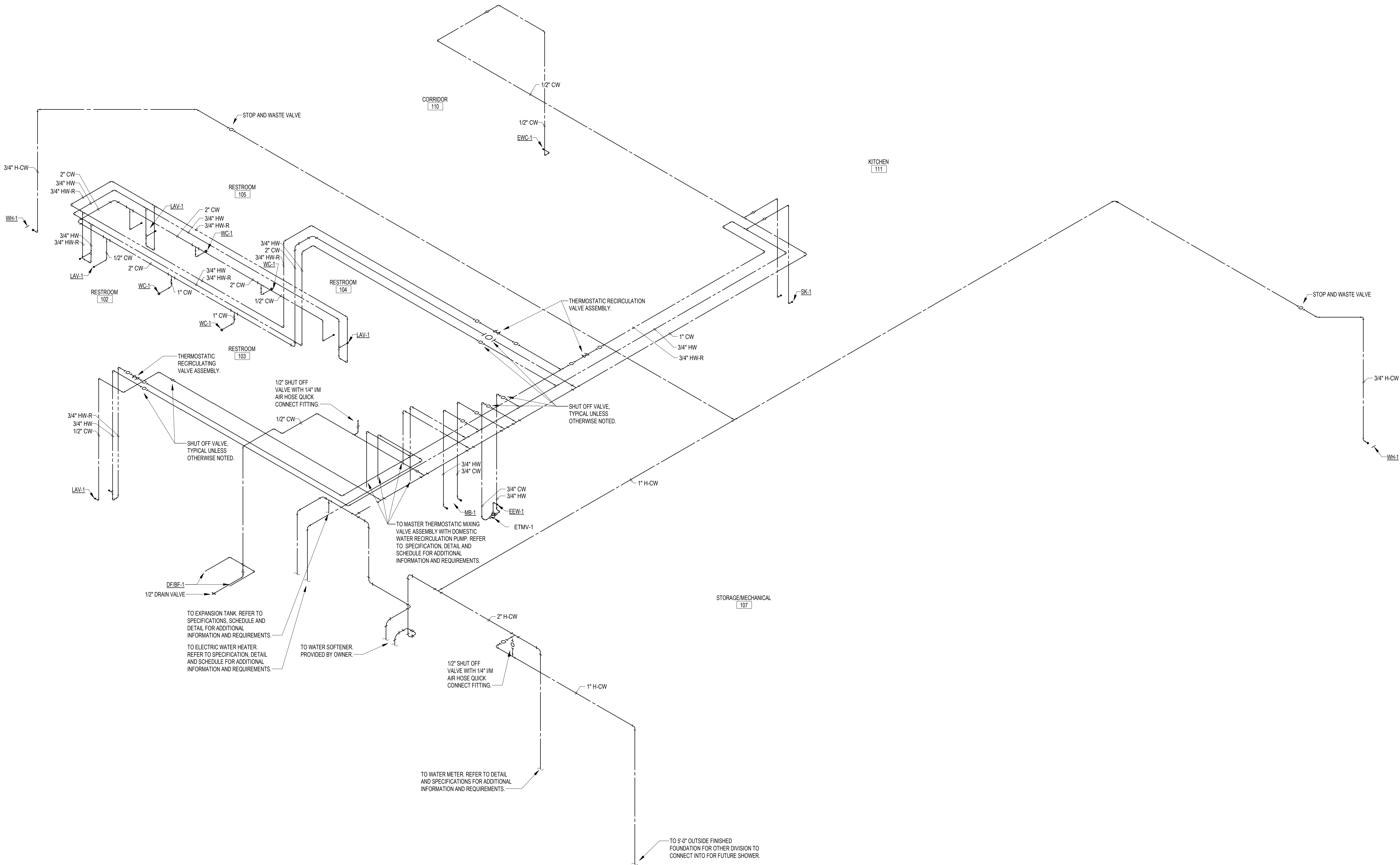
OERTEL
ARCHITECTS, LTD.
1705 Saint Clair Avenue
phone: (651) 696-5186
St. Paul, Minnesota 55109
www.oertelarchitects.com

CONSULTANT:

edi-dolejs
consulting engineers
minneapolis | monticello
1112 North 28th Street
Minneapolis, MN 55411
(612) 343-9965
1624 North Riverfront Drive
Monticello, MN 55601
(807) 629-7969

NOTES:
70% CONSTRUCTION DOCUMENTS

Not for Construction



1
M2.3
Working-Plumbing Riser-Domestic Water

PROJECT NAME: **Moore Lake Park Building**
City of Fridley
5872 NE CENTRAL AVE., FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: **STEVE S SCHREURS**

19622 02/03/23
LICENSE # DATE

SHEET NAME:

**PLUMBING RISER
DIAGRAMS -
DOMESTIC WATER**

REVISIONS:

No.	Date	Description

22-25 02/03/23

PROJECT NUMBER DATE

LNS Checker
DRAWN BY CHECKED BY

SHEET NO:

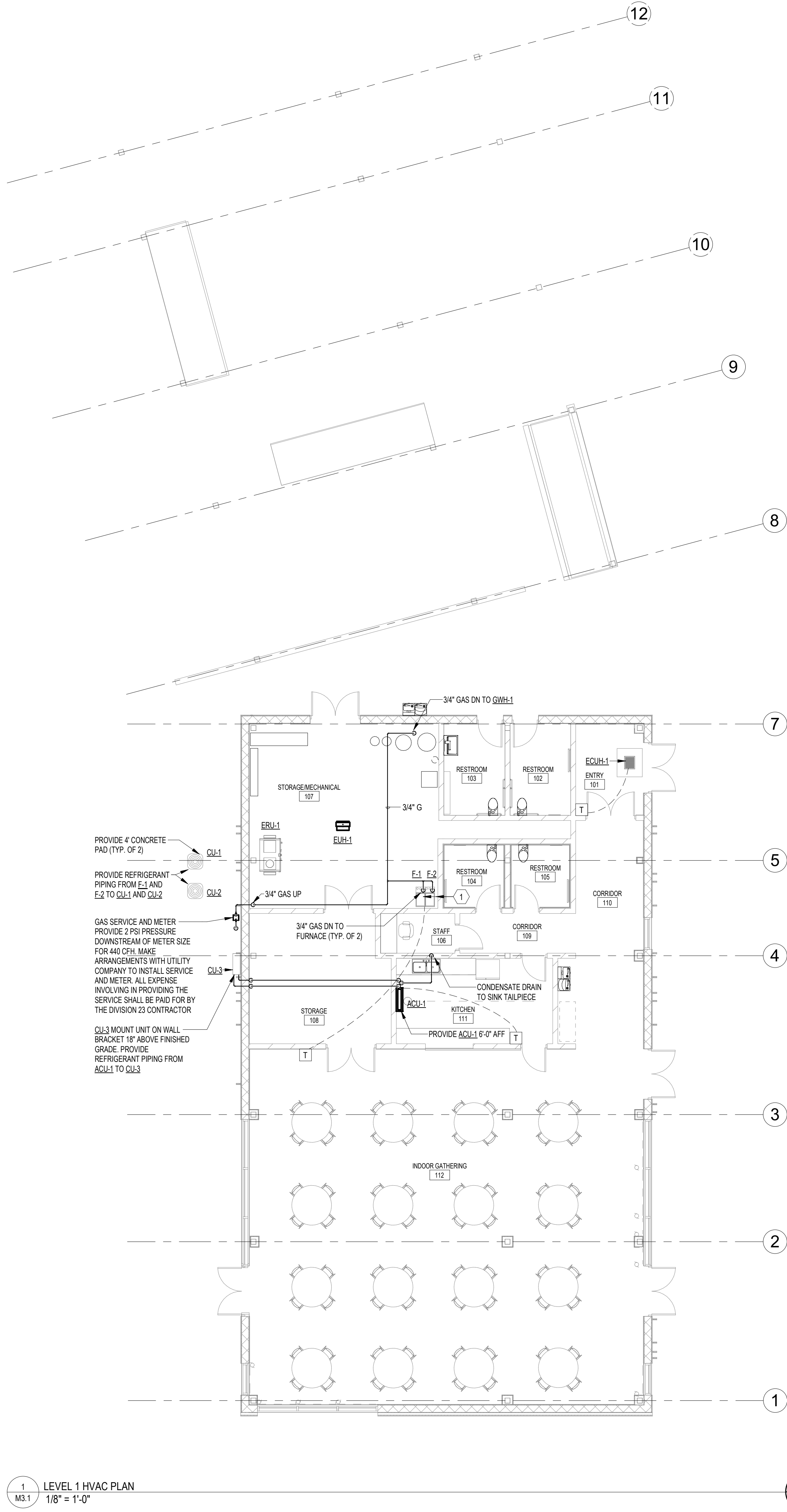
M2.3

GENERAL NOTES

A. REFER TO SHEET M7.1 FOR PIPE HANGER AND SUPPORT
INSTALLATION REQUIREMENTS DETAIL. TYPICAL.
B. REFER TO SHEET M7.1 FOR PIPE PENETRATION DETAIL INDICATING
INSTALLATION REQUIREMENTS. TYPICAL.

PLAN NOTES

1. PROVIDE CONDENSATE DRAIN FROM COOLING SECTION WITH TRAP
SIZED 1" DEEPER THAN THE MAXIMUM FAN STATIC PRESSURE.
ROUTE CONDENSATE PIPING TO FLOOR DRAIN.



OERTEL

ARCHITECTS, LTD.

1701 Saint Clair Avenue
Minneapolis, MN 55411

St. Paul, Minnesota 55109
www.oertelarchitects.com

edi-dolejs

consulting engineers

minneapolis | mankato

1112 North 28th Street
Minneapolis, MN 55411

1824 North Riverfront Drive
Mankato, MN 56001

CONSULTANT:

NOTES:
70% CONSTRUCTION DOCUMENTS

Not for Construction

PROJECT NAME:

Moore Lake Park Building

City of Fridley

5872 NE CENTRAL AVE., FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: STEVE S SCHREURS

1962202/03/23

LICENSE #DATE

SHEET NAME:

MAIN FLOOR PLAN
- PIPING

REVISIONS:		
No.	Date	Description

22-2502/03/23

PROJECT NUMBERDATE

AuthorChecker

DRAWN BYCHECKED BY

SHEET NO:

M3.1

© 2020 COPYRIGHT OERTEL ARCHITECTS. ALL RIGHTS RESERVED. EDI-DOLEJS #2259



NOTES:
70% CONSTRUCTION DOCUMENTS

Not for Construction

PROJECT NAME: Moore Lake Park Building
City of Fridley
5872 NE CENTRAL AVE., FRIDLEY MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: STEVE S SCHREURS

19622 02/03/23
LICENSE # DATE

SHEET NAME:

MAIN FLOOR PLAN - HVAC

REVISIONS:		
No.	Date	Description

22-25 02/03/23
PROJECT NUMBER DATE

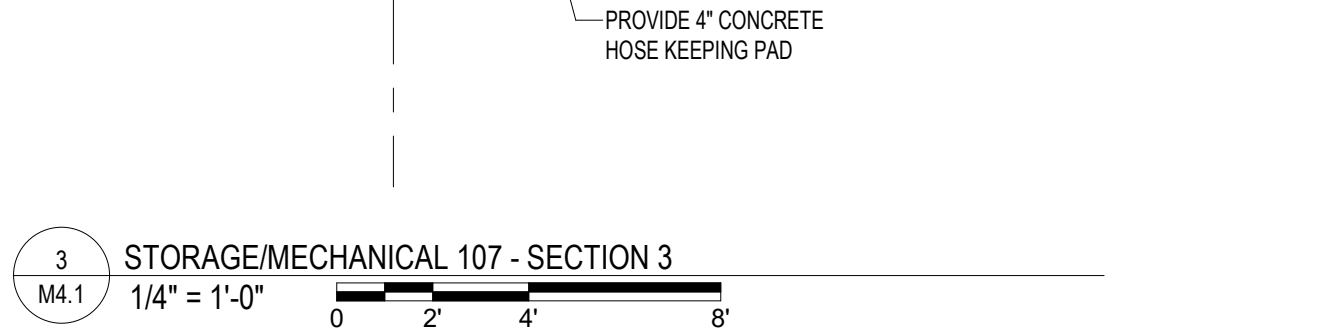
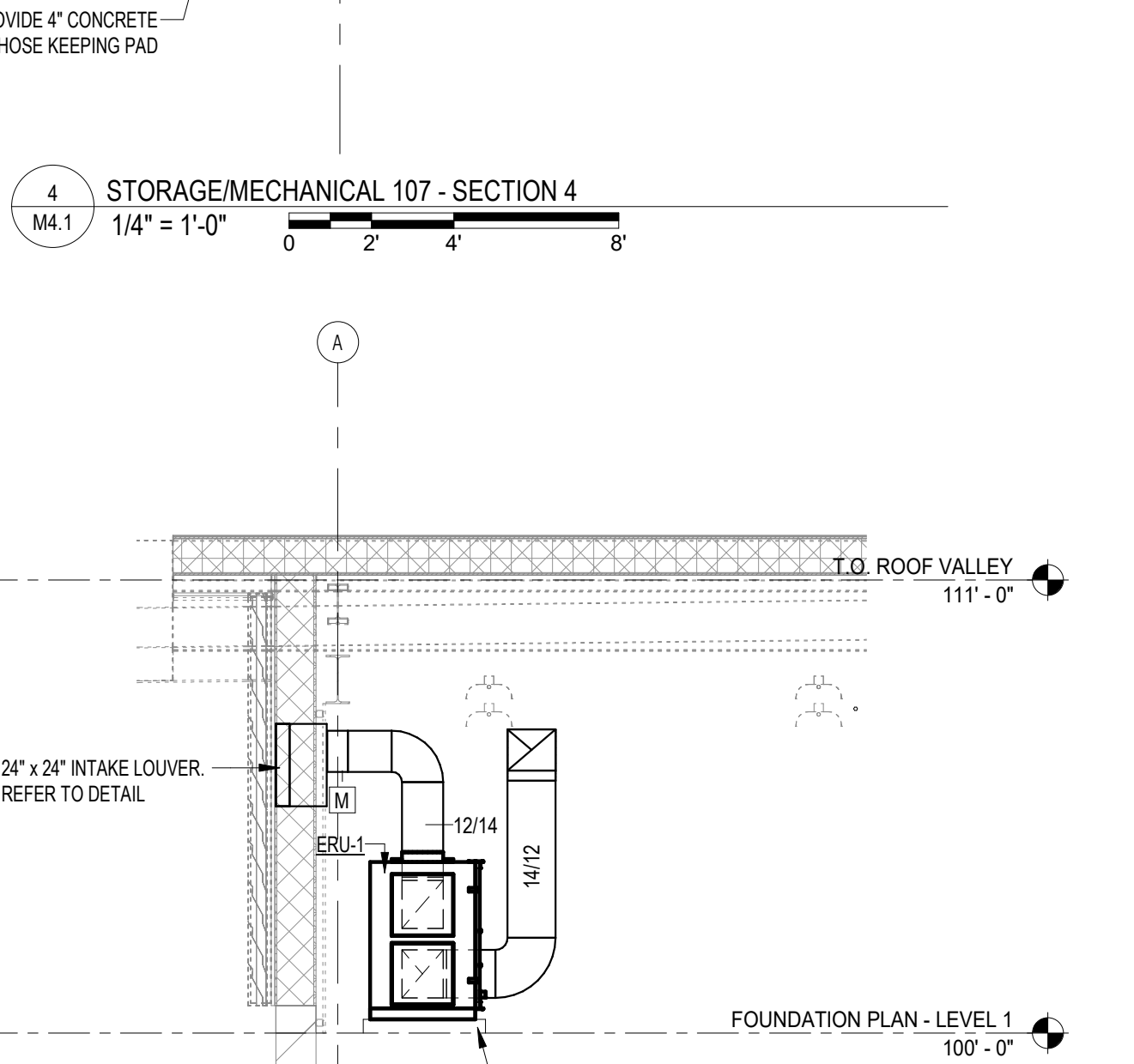
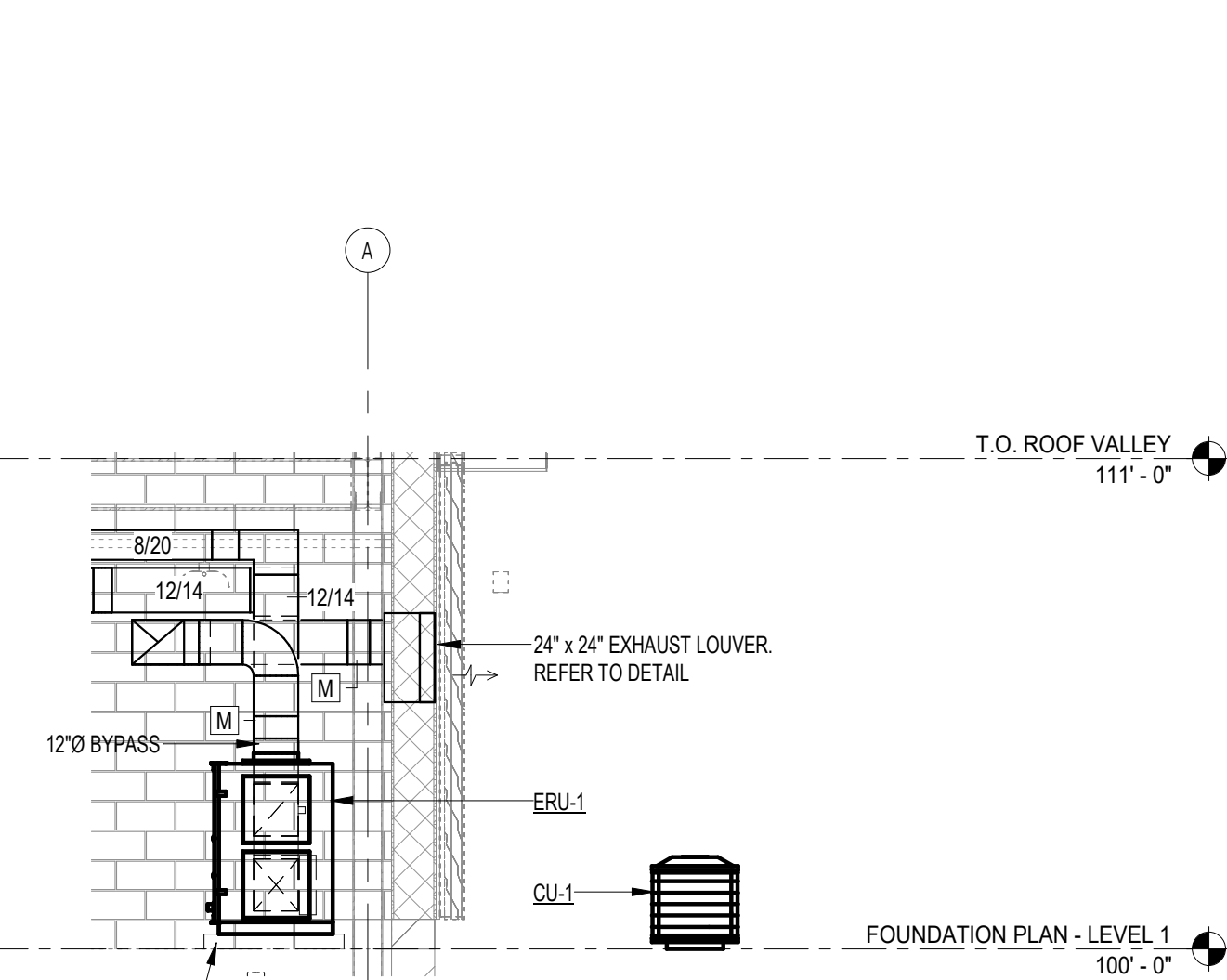
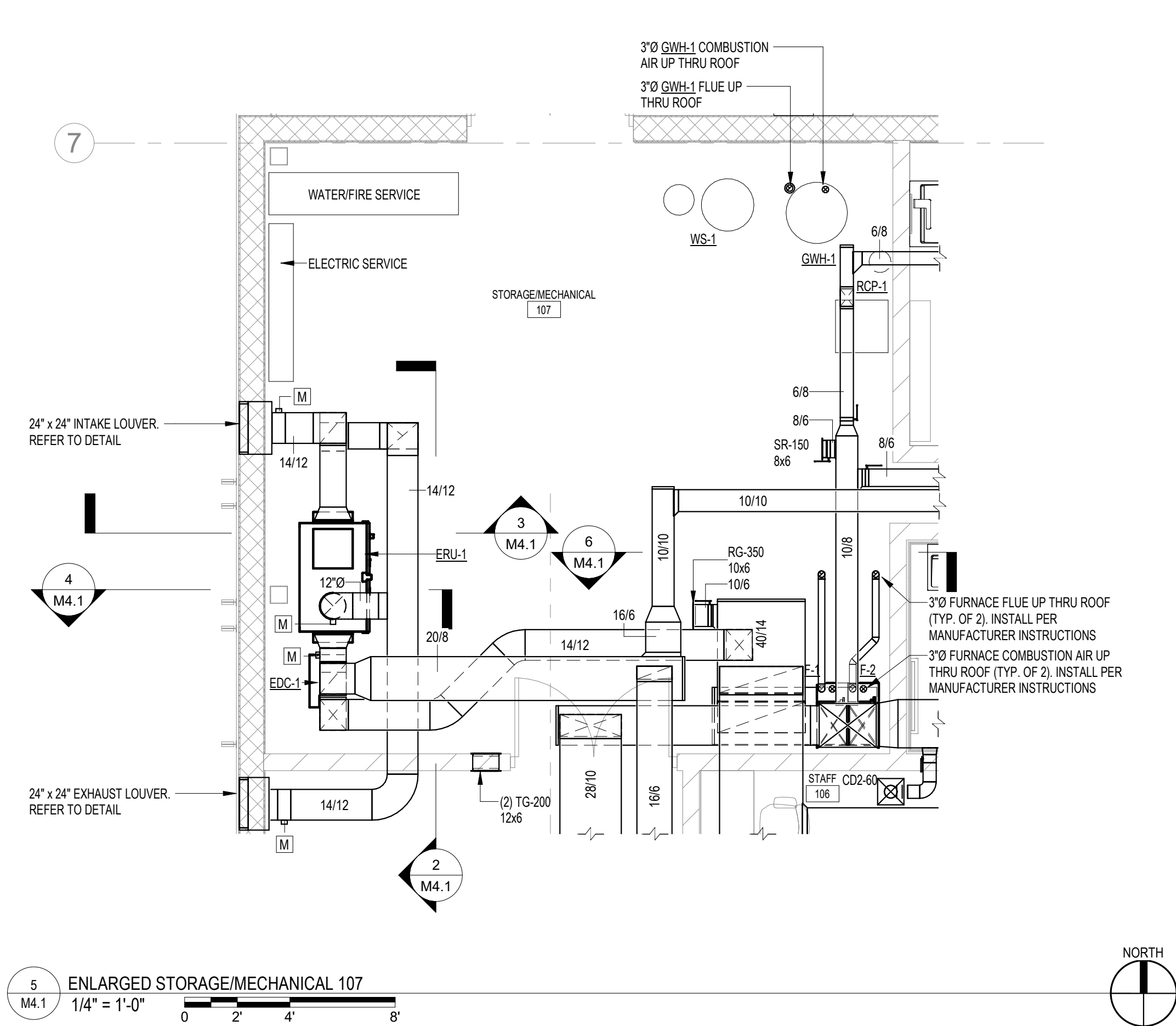
AE, LS SSS
DRAWN BY CHECKED BY

SHEET NO:

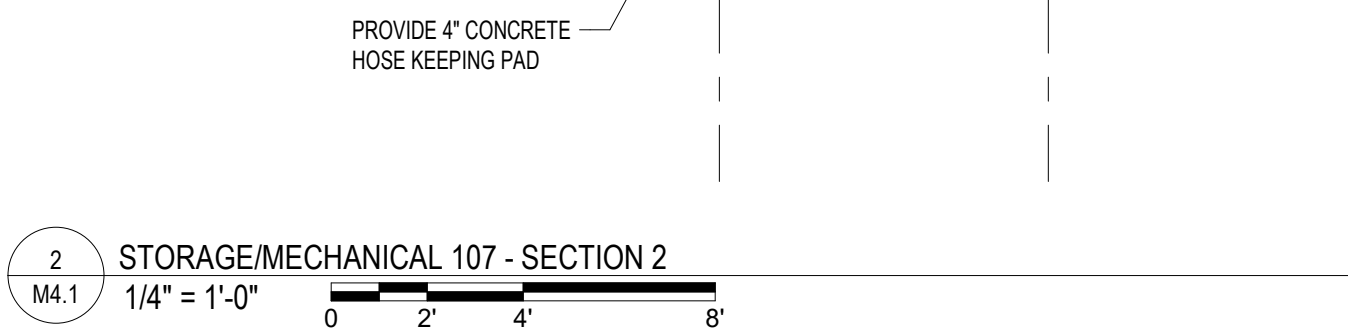
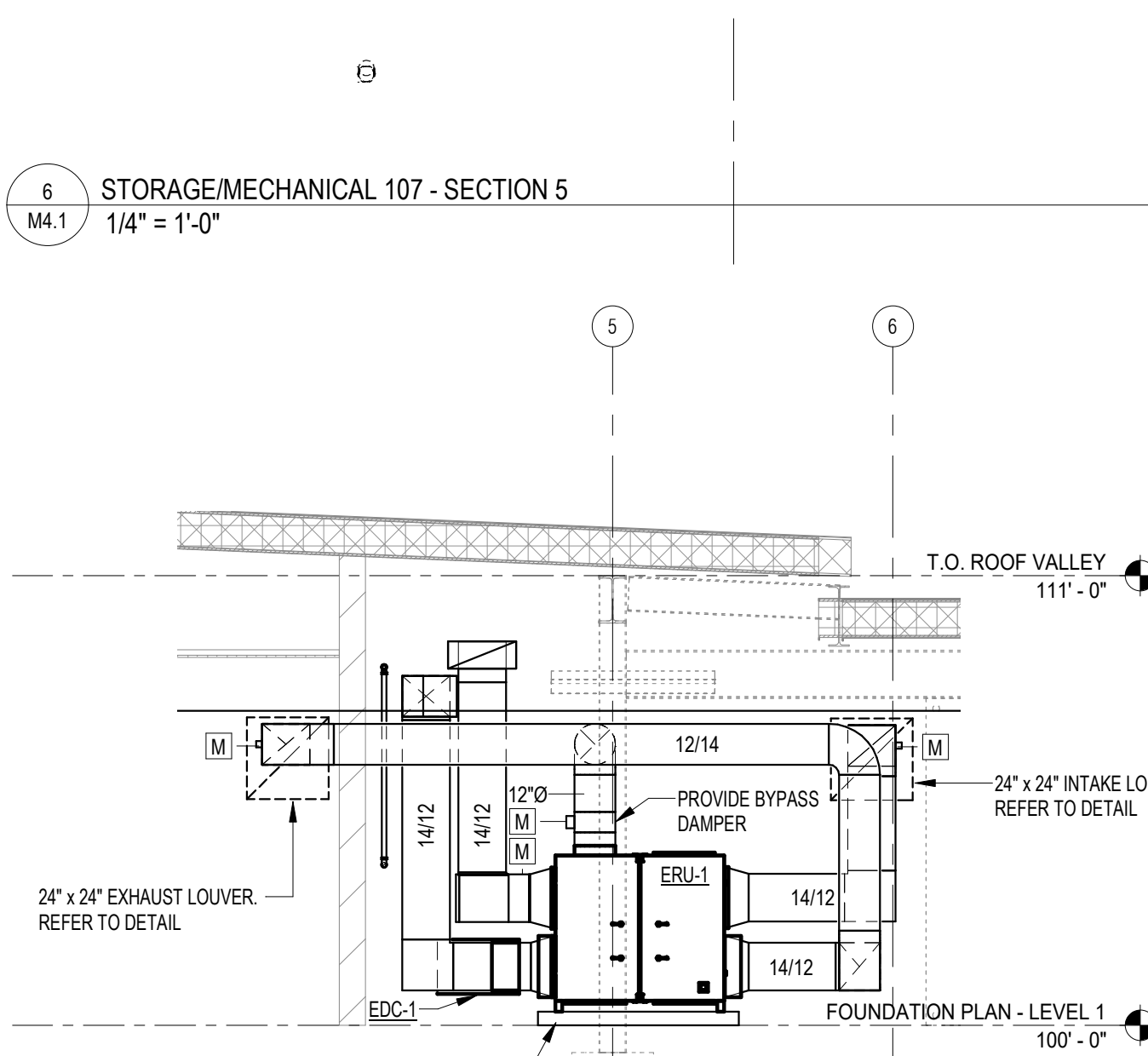
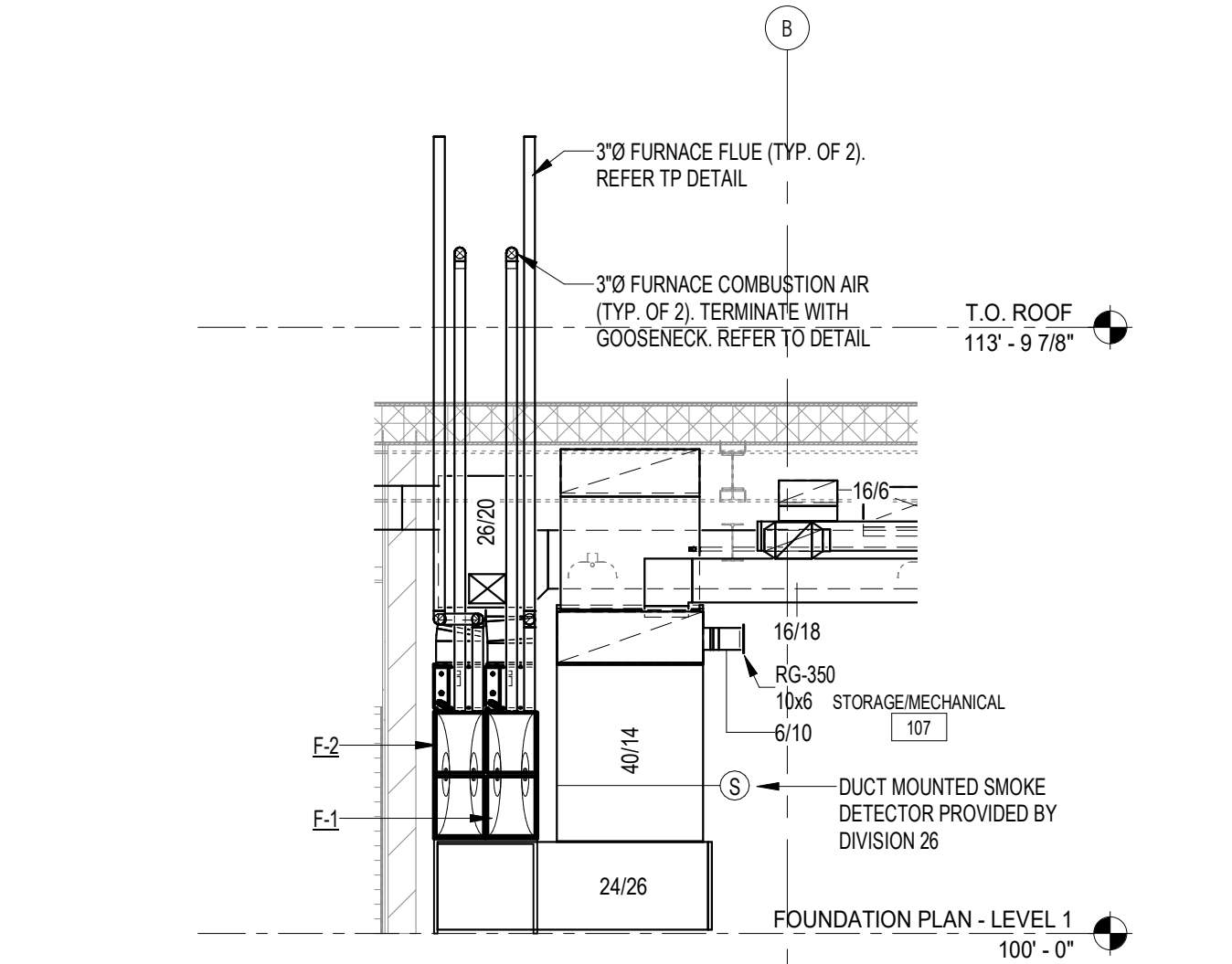
M4.1

- GENERAL NOTES**
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS WHERE DUCTWORK IS INTERNALLY LINED. INCREASE DIMENSIONS OF SHEET METAL ACCORDINGLY.
 - ALL TRANSFER DUCTS SHALL BE INTERNALLY LINED WITH 1" ACOUSTIC LINER.
 - MAINTAIN UNOBSTRUCTED CLEARANCE TO THE ENTIRE BOTTOM PANEL OF ALL VAV BOX/REHEAT COILS.
 - DIFFUSER BRANCH DUCT SIZE SHALL BE THE SAME AS THE DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
 - PROVIDE BALANCING DAMPERS FOR EACH SUPPLY OUTLET AND EXHAUST INLET, UNLESS THERE IS ONLY ONE DIFFUSER FOR A VAV BOX.
 - REFER TO VAV/REHEAT COIL TERMINAL UNIT SIZING SCHEDULE FOR VAV BOX INLET DUCT SIZES.
 - REFER TO CEILING DIFFUSERS SIZE SCHEDULE FOR DIFFUSERS NECK SIZES.
 - ALL CEILING GRILLES (RETURN AIR) SHALL BE 24"x12" UNLESS NOTED OTHERWISE.
 - TEMPERATURE CONTROL CONTRACTOR SHALL FURNISH ALL MOTORIZED DAMPERS FOR INSTALLATION BY MECHANICAL CONTRACTOR.

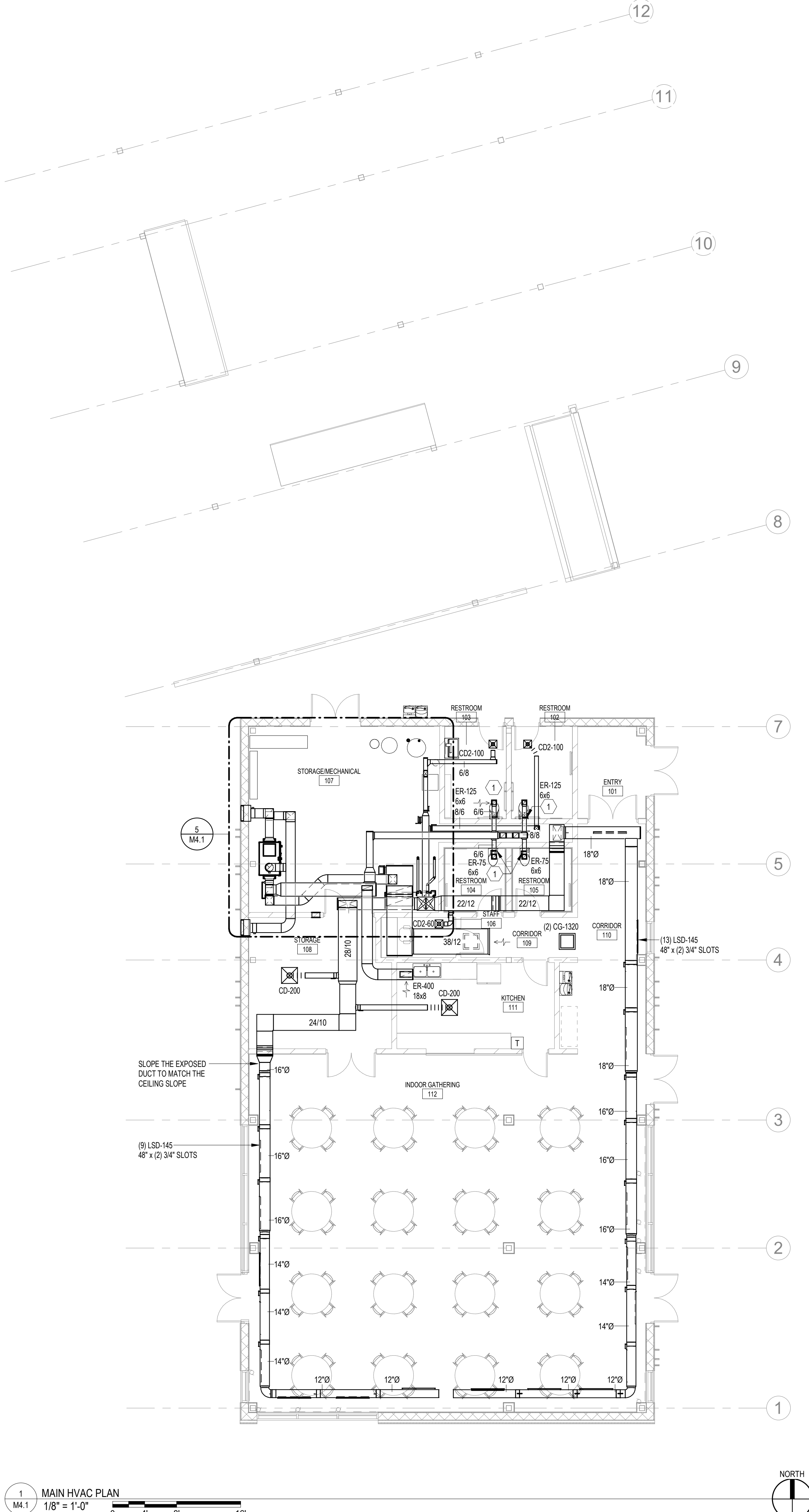
- PLAN NOTES**
- PROVIDE CABLE OPERATED DAMPER.



3 STORAGE/MECHANICAL 107 - SECTION 3



2 STORAGE/MECHANICAL 107 - SECTION 2



1 MAIN HVAC PLAN



CONSULTANT:



NOTES:
70% CONSTRUCTION DOCUMENTS

Not for Construction

PROJECT NAME:
Moore Lake Park Building
City of Fridley

5872 NE CENTRAL AVE., FRIDLEY
MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: STEVE S SCHREURS

19622 02/03/23
LICENSE # DATE

SHEET NAME:

ROOF PLAN - MECHANICAL

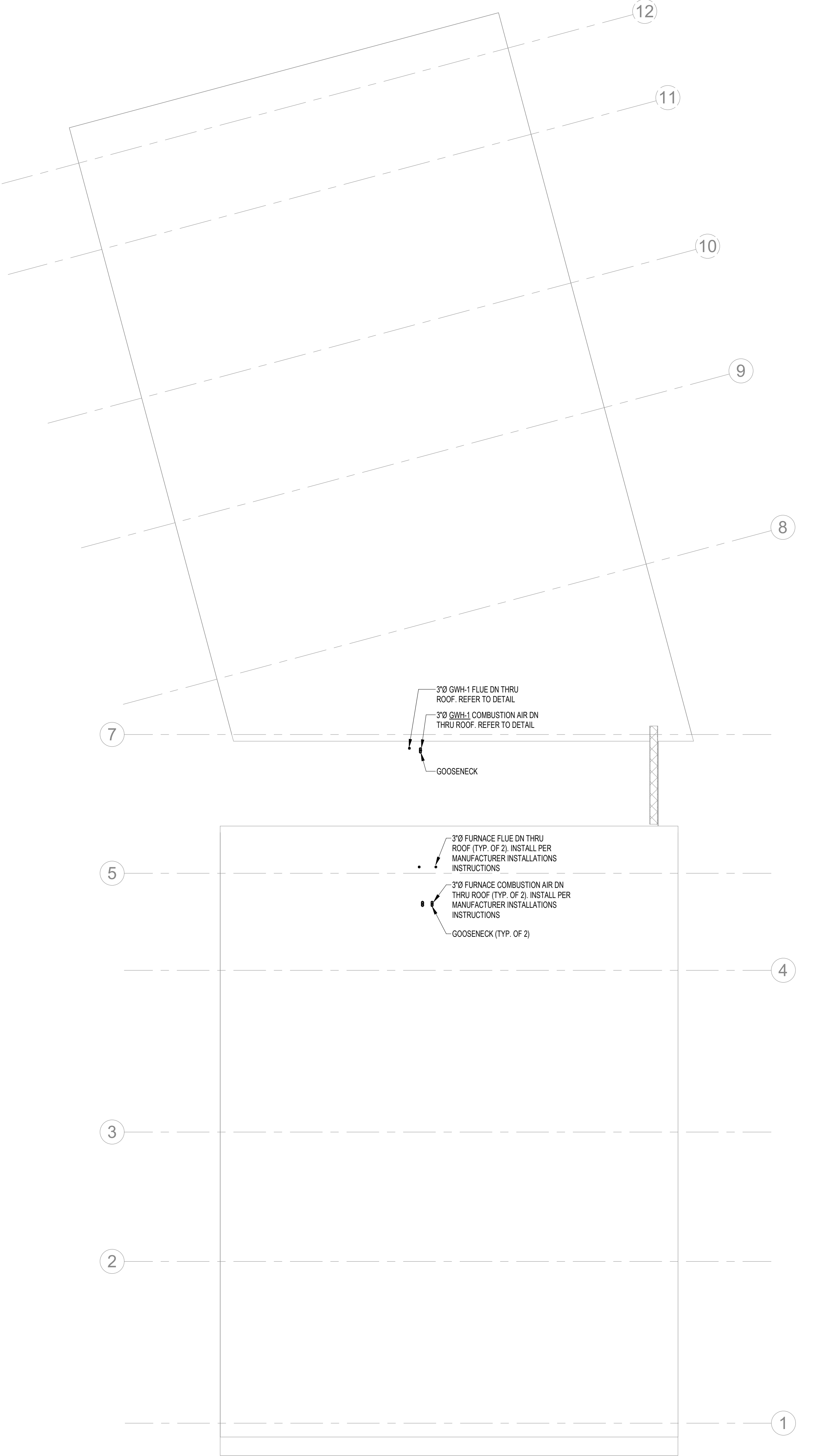
REVISIONS:		
No.	Date	Description

22-25 02/03/23
PROJECT NUMBER DATE

Author Checker
DRAWN BY CHECKED BY

SHEET NO:

M5.1



1 ROOF PLAN - MECHANICAL
MS.1 1/8" = 1'-0" 0 4' 8' 16'





CONSULTANT:



NOTES:
70% CONSTRUCTION DOCUMENTS

Not for Construction

NATURAL GAS EQUIPMENT SCHEDULE		
EQUIPMENT	LOAD (CFH)	REFER TO NOTES
GAS WATER HEATER - GWH-1	200	1, 2, 3, 4
FURNACE- F-1	120	1, 2, 3, 4
FURNACE- F-2	120	1, 2, 3, 4
TOTAL	440	
NOTES: 1. REFER TO SPECIFICATION SECTION 23 1123 FOR ADDITIONAL REQUIREMENTS. 2. DIVISION 23 CONTRACTOR SHALL INSTALL A QUICK-DISCONNECT FLEXIBLE HOSE FURNISHED BY THE FSEC. 3. DIVISION 23 CONTRACTOR SHALL INSTALL A MECHANICALLY OPERATED GAS SHUT-OFF VALVE FURNISHED BY FSEC. FSEC TO PROVIDE ALL INTERCONNECTION TO FIRE PROTECTION SYSTEM FOR FUEL SHUT-OFF TO COOKING EQUIPMENT. 4. DIVISION 23 CONTRACTOR SHALL PROVIDE GAS PRESSURE REGULATOR VALVE TO REDUCE GAS PRESSURE FROM 2 LB TO 10" W.C. AND INSTALL INCHES TO INCHES GAS PRESSURE REGULATOR VALVE FURNISHED BY FSEC.		

ELECTRIC UNIT HEATER SCHEDULE							
UNIT NO.	LOCATION	MANUFACTURER	STYLE	MODEL NO.	KW	BTUH	REFER TO NOTES
EUH-1	MECHANICAL ROOM	QMARK	HORIZONTAL	IUH-1024	10	34	1, 2, 3, 4, 5
NOTES: 1. REFER TO SPECIFICATION SECTION 238239 FOR ADDITIONAL REQUIREMENTS. 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS. 3. PROVIDE WITH COMBINATION WALL/CEILING BRACKET. 4. PROVIDE THERMOSTAT KIT. 5. PROVIDE THE UNIT WITH DISCONNECT SWITCH.							

ELECTRIC HEATING COIL SCHEDULE - DUCT MOUNTED										
UNIT TAG	LOCATION	MANUFACTURER	MODEL	STYLE	KW	STAGES	CFM	TEMP RISE DEG F	NOMINAL DUCT SIZE	REFER TO NOTES
EHC-1	SUPPLY DUCT ERU-1	INDEECO	QUIZ	RECTANGULAR	7.5	SCR	800	30	14"x12"	1, 2, 3
NOTES: 1. REFER TO SPECIFICATION SECTION 23 8216 FOR ADDITIONAL INFORMATION 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS. 3. PROVIDE SCR PROPORTIONAL CONTROL WITH DUCT MOUNTED THERMOSTAT.										

PLUMBING ROUGH-IN SCHEDULE							
ABBR.	ITEM	WASTE	VENT	CW	HW	REMARKS	
WC-1	WATER CLOSET	4	2	1 1/4"		WALL HUNG	ADA
LAV-1	LAVATORY	1-1/2	1-1/2	1/2	1/2	WALL HUNG MOUNT	ADA
SK-1	DOUBLE BOWL SINK	2	1-1/2	1/2	1/2	UNDER COUNTER MOUNT	
MB-1	MOP BASIN	3	1-1/2	3/4	3/4		
EW-C-1	ELECTRIC WATER COOLER	2	1-1/2	1/2	-	BI-LEVEL ELECTRIC WATER COOLER	
DF/BF-1	DRINKING FOUNTAIN/BOTTLE FILLER	2	1-1/2	1/2	-	SEASONAL EXTERIOR	
EEW-1	EMERGENCY EYE WASH	-	-	-	1/2 TW	TEMPERED HW INLET	
ETMV-1	EMERGENCY THERMOSTATIC MIXING VALVE	-	-	3/4	3/4	SERVES EEW-1	
WH	WALL HYDRANT	-	-	3/4	-		
2"FD-1 OR 2"FD-2	FLOOR DRAIN	2	1-1/2	-	-		

EXPANSION TANK SCHEDULE									
UNIT NO.	LOCATION	SERVICE	MANUFACTURER	MODEL NO.	TOTAL VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	HEIGHT (IN.)	DIA. (IN.)	REFER TO NOTES
ET-1	STORAGE/MECHANICAL 107	HOT WATER HEATING	B & G	HFT-30	4.4	2.5	14	11	1
NOTES: 1. REFER TO SPECIFICATION SECTION 232113 FOR ADDITIONAL REQUIREMENTS.									

DOMESTIC WATER RECIRCULATING PUMP SCHEDULE									
UNIT NO.	LOCATION	SERVICE	MANUFACTURER	MODEL	GPM	FT HD	HP	RPM	FLUID
RCP-1	STORAGE/MECH 107	DOMESTIC HW RECIRC PUMP	B & G	36-45	1.5	10	.166	2389	WATER
NOTES: 1. REFER TO SPECIFICATION SECTION 221123 FOR ADDITIONAL REQUIREMENTS. 2. SEE ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS.									

ELECTRIC CABINET UNIT HEATER SCHEDULE									
UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	STYLE	KW	BTUH	CFM	VOLTS/PHASE	AMPS
ECUH-1	101 - VESTIBULE	QMARK	EFF4004	CEILING RECESSED	2	10239	150	240/ 1	14.4
NOTES: 1. REFER TO SPECIFICATION SECTION 238239 FOR ADDITIONAL REQUIREMENTS. 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS. 3. COLOR SHALL BE A MANUFACTURER'S STANDARD COLOR AS SELECTED BY ARCHITECT. 4. INSTALL UNIT AS PER MANUFACTURER'S RECOMMENDATIONS. 5. PROVIDE THE UNIT WITH DISCONNECT SWITCH. 6. FIELD CONVERT FROM 4 TO 2 KW.									

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE									
TYPE	SERVICE	MANUFACTURER AND MODEL NO.	VOLUME DAMPER	FINISH	FRAME AND BORDER TYPE	MATERIAL	DESCRIPTION	REFER TO NOTES	
CD	CEILING DIFFUSER	TITUS TMSA	---	WHITE ENAMEL	NOTE 1	STEEL	24x24 MODULAR FULL-FACE DIFFUSER WITH ROUND NECK	1, 2	
CD2	CEILING DIFFUSER	TITUS TMSA	---	WHITE ENAMEL	NOTE 1	STEEL	24x24 CEILING MODULE DIFFUSER WITH 12x12 FACE SIZE. FOUR-WAY DIFFUSER WITH ROUND NECK	1, 2	
LSO	LINEAR SLOT DIFFUSER	TITUS ML-38	PATTERN CONTROLLERS	SILVER	NOTE 1	ALUMINUM	PROVIDE BORDER TYPE 16 FOR 2 SLOTS, 3/4" SLOTS	1, 2	
ER	EXHAUST REGISTER	TITUS 355R	---	SILVER	NOTE 1	STEEL	35 DEGREE FIXED DEFLECTION REGISTER WITH BLADES PARALLEL TO LONG DIMENSION. 3/4" SPACING	1, 2, 3	
SR	SUPPLY REGISTER	TITUS 300RL	---	SILVER	NOTE 1	STEEL	DOUBLE DEFLECTION GRILLE WITH FRONT BLADES PARALLEL TO LONG DIMENSION. 3/4" SPACING	1, 2, 3	
RG	RETURN GRILLE	TITUS 355RL	---	SILVER	NOTE 1	STEEL	35 DEGREE FIXED DEFLECTION REGISTER WITH BLADES PARALLEL TO LONG DIMENSION. 3/4" SPACING	1, 2	
NOTES: 1. VERIFY CEILING/WALL/FLOOR TYPE AND PROVIDE PROPER FRAME AND BORDER TYPE. 2. REFER TO SPECIFICATION SECTION 23 3713 FOR ADDITIONAL REQUIREMENTS. 3. PROVIDE WITH OPPOSED BLADE BALANCING DAMPER.									

GAS WATER HEATER SCHEDULE									
UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	TYPE	STORAGE CAPACITY	GPH RECOVERY	TEMPERATURE RISE (F)	FUEL	GAS INPUT BTU
GWH-1	STORAGE/MECHANICAL 107	PVI	20L 100A-GCL		100	233	100		199,000
NOTES: 1. REFER TO SPECIFICATION SECTION 223400 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 2. PROVIDE 1" CONDENSATE DRAIN WITH CONDENSATE NEUTRALIZATION SYSTEM, ROUTE TO FLOOR DRAIN.									

AIR CONDITIONING UNIT SCHEDULE	
UNIT TAG:	ACU-1
MANUFACTURER	MITSUBISHI
MODEL NO.	PKA-A12HA7
CONFIGURATION	WALL HUNG
SERVICE	004 - ELEV. EQUIPMENT
CAPACITY DATA:	
TOTAL BTUH	12,000
CAPACITY RANGE (BTUH)	5,800
SEER RATING	20.8
FAN SECTION:	
AIR VOLUME (CFM) (LO - MED - HI)	320 - 370 - 425
CONDENSING UNIT:	
MODEL NO.	PUY-A12NKA7
TYPE	PROPELLER
CFM	1,590
REFRIGERANT TYPE	R-410A
REFER TO NOTES:	
NOTES: 1. REFER TO SPECIFICATION SECTION 238126 FOR ADDITIONAL REQUIREMENTS. 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS (VOLTS AND PHASE). 3. PROVIDE FRONT, SIDE AND REAR WIND BAFFLE AS REQUIRED TO ACHIEVE -30 DEGREES F. OPERATION. 4. PROVIDE WALL MOUNTED WIRED REMOTE CONTROLLER, MODEL NO. PAR-33MAA. 5. PROVIDE MAXIBLUE ADVANCED BLUE DIAMOND MINI CONDENSATE PUMP WITH RESERVOIR & SENSOR, MODEL NO. X87-721.	

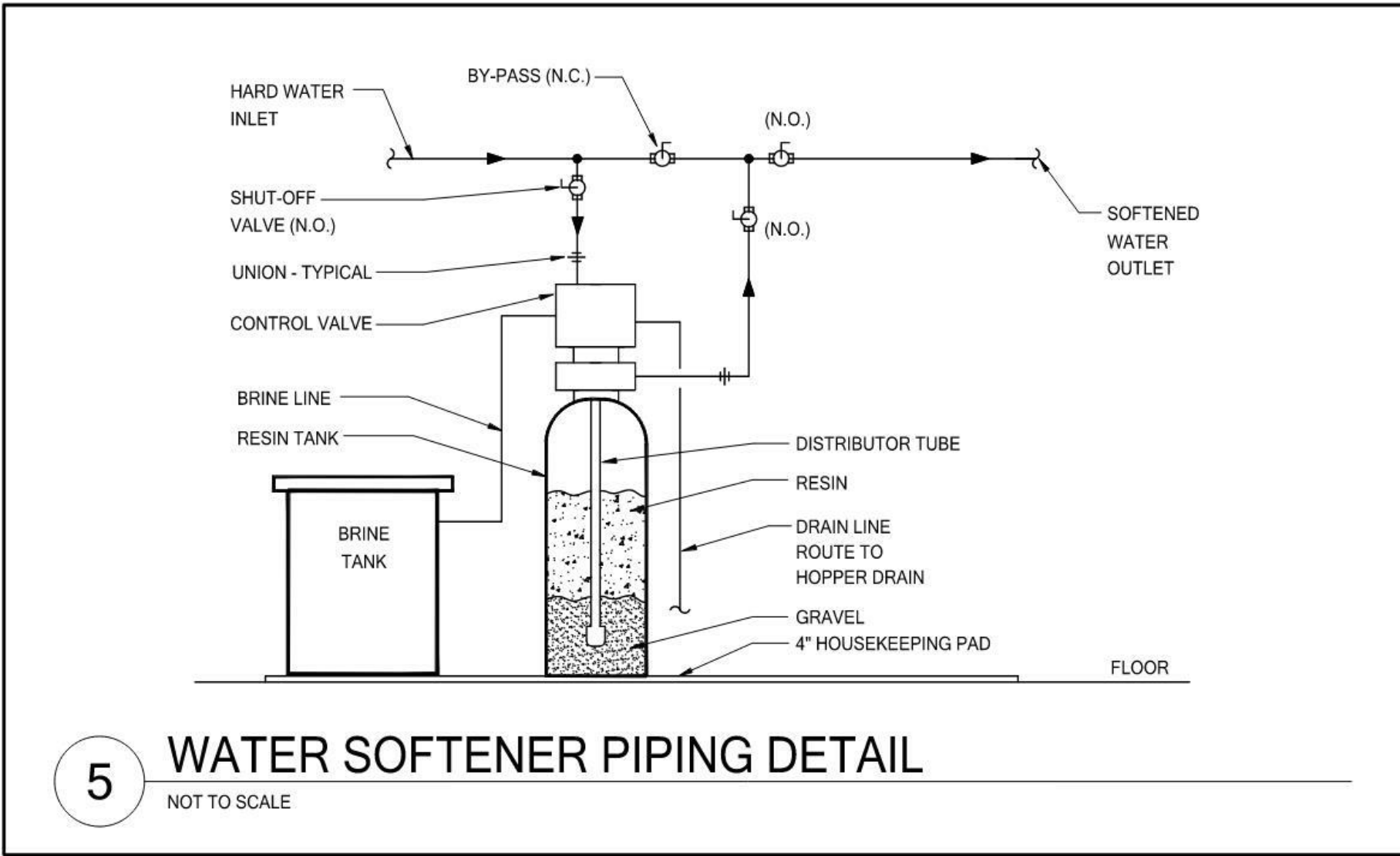
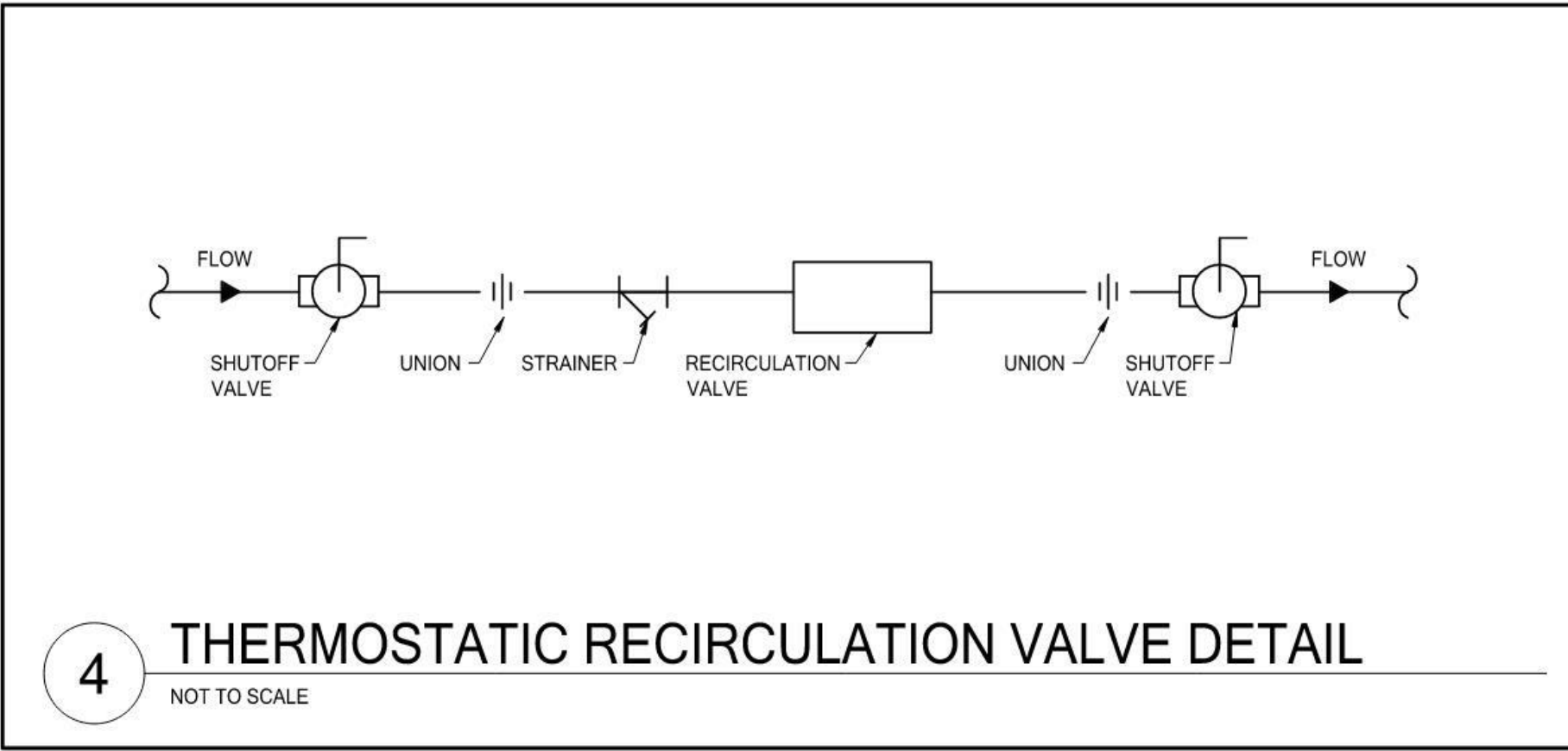
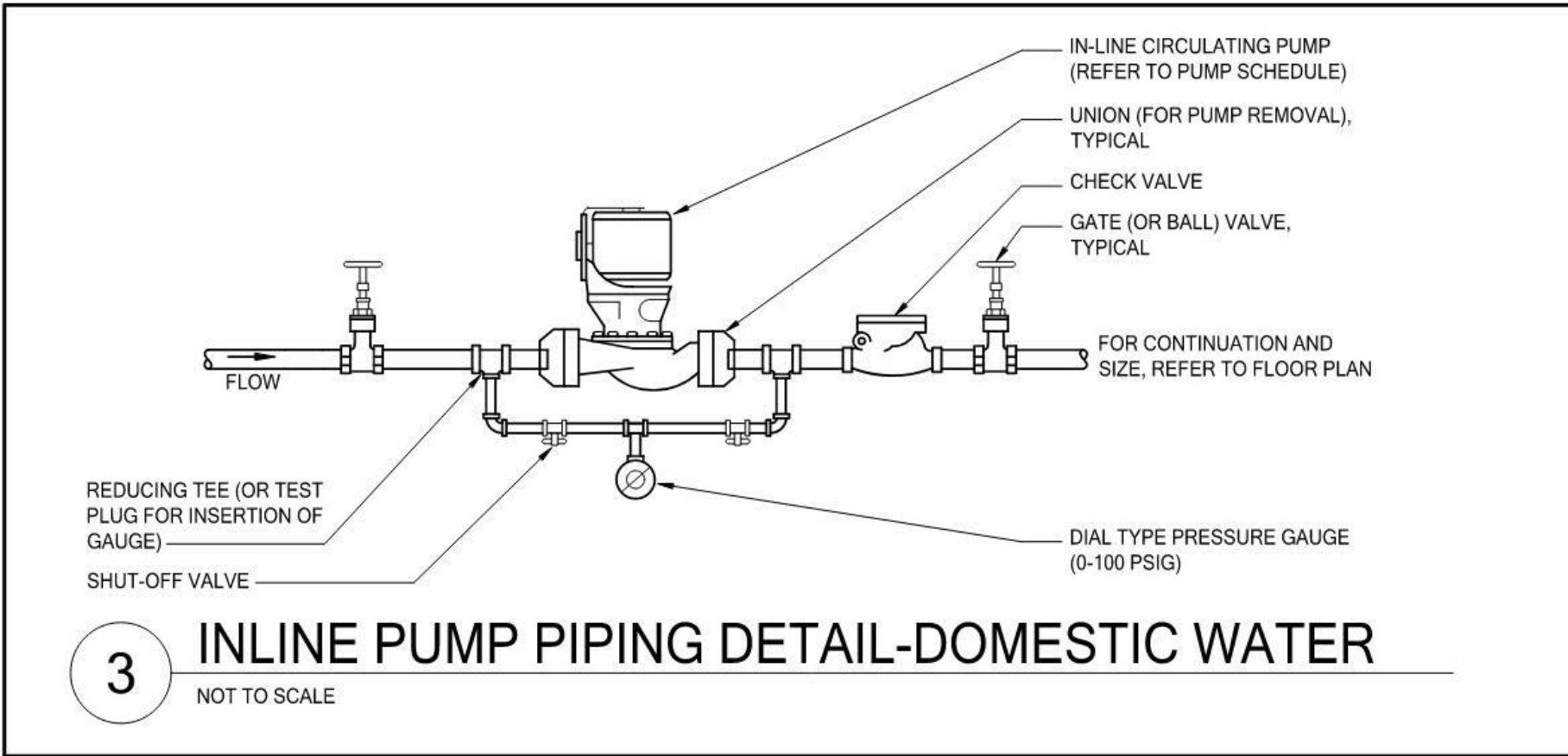
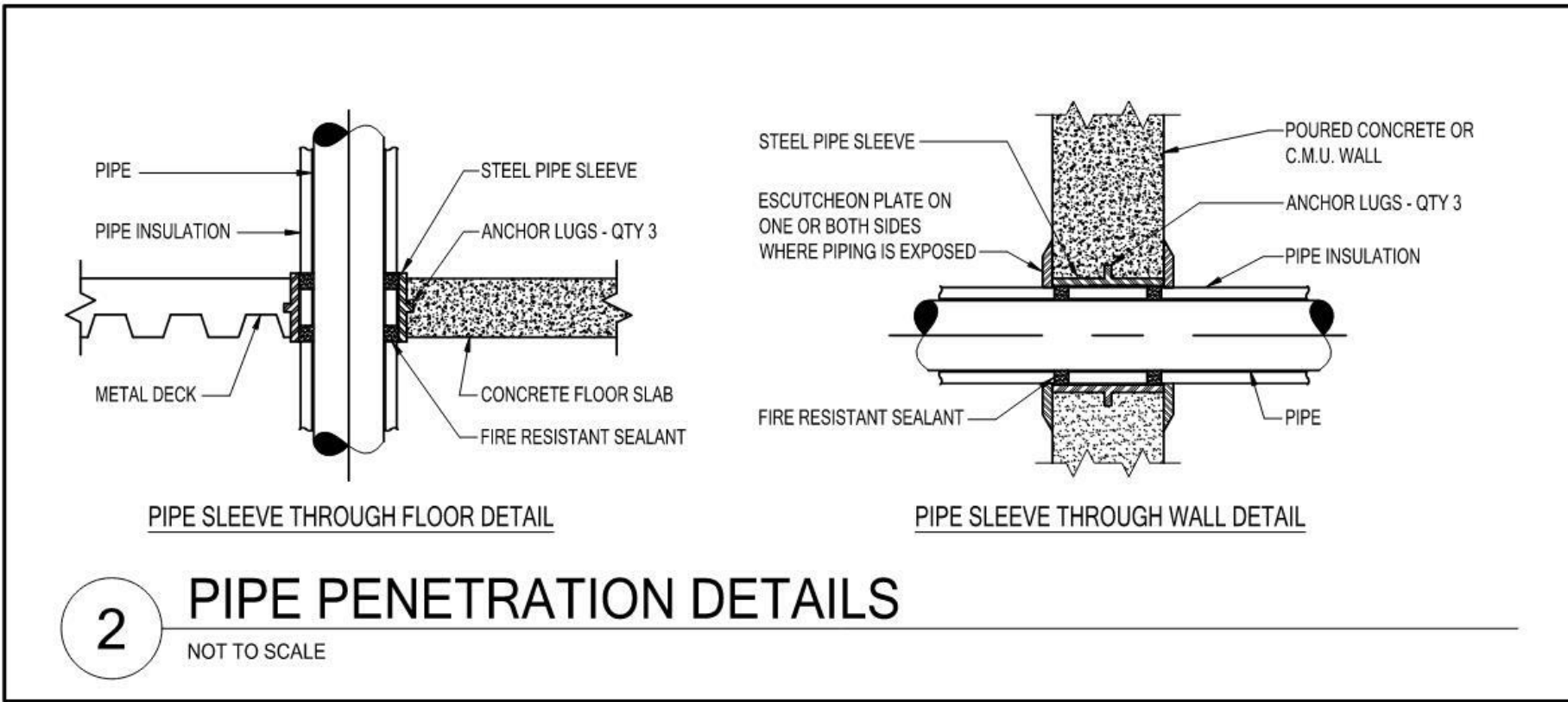
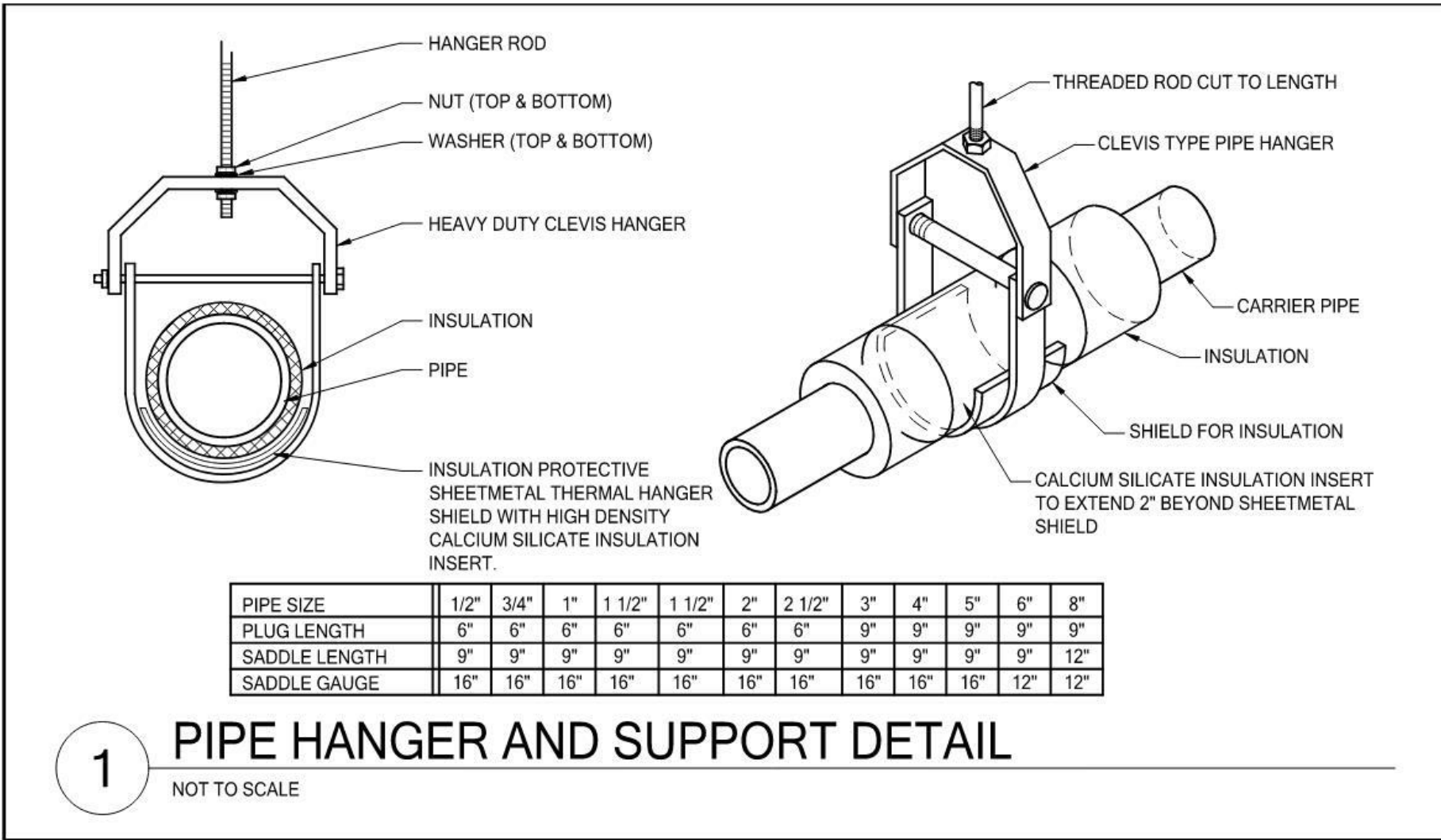
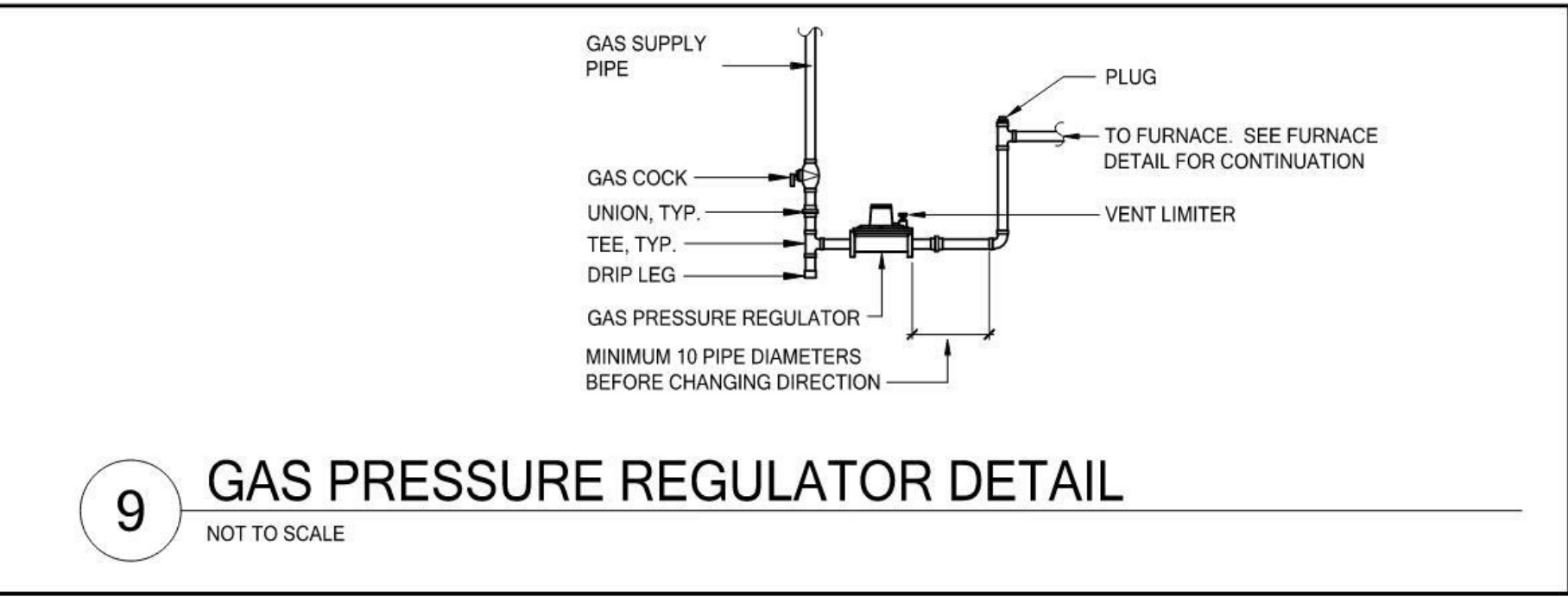
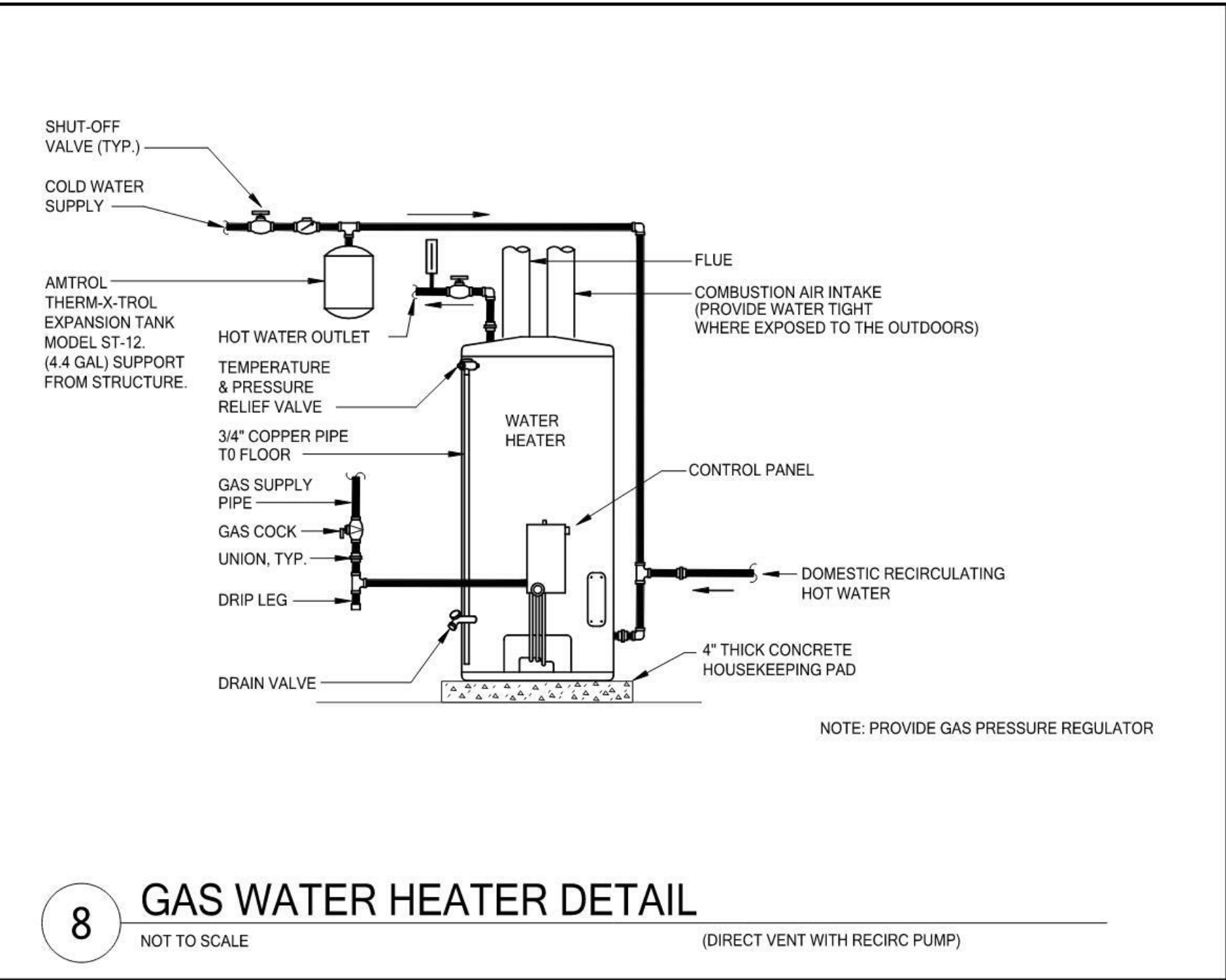
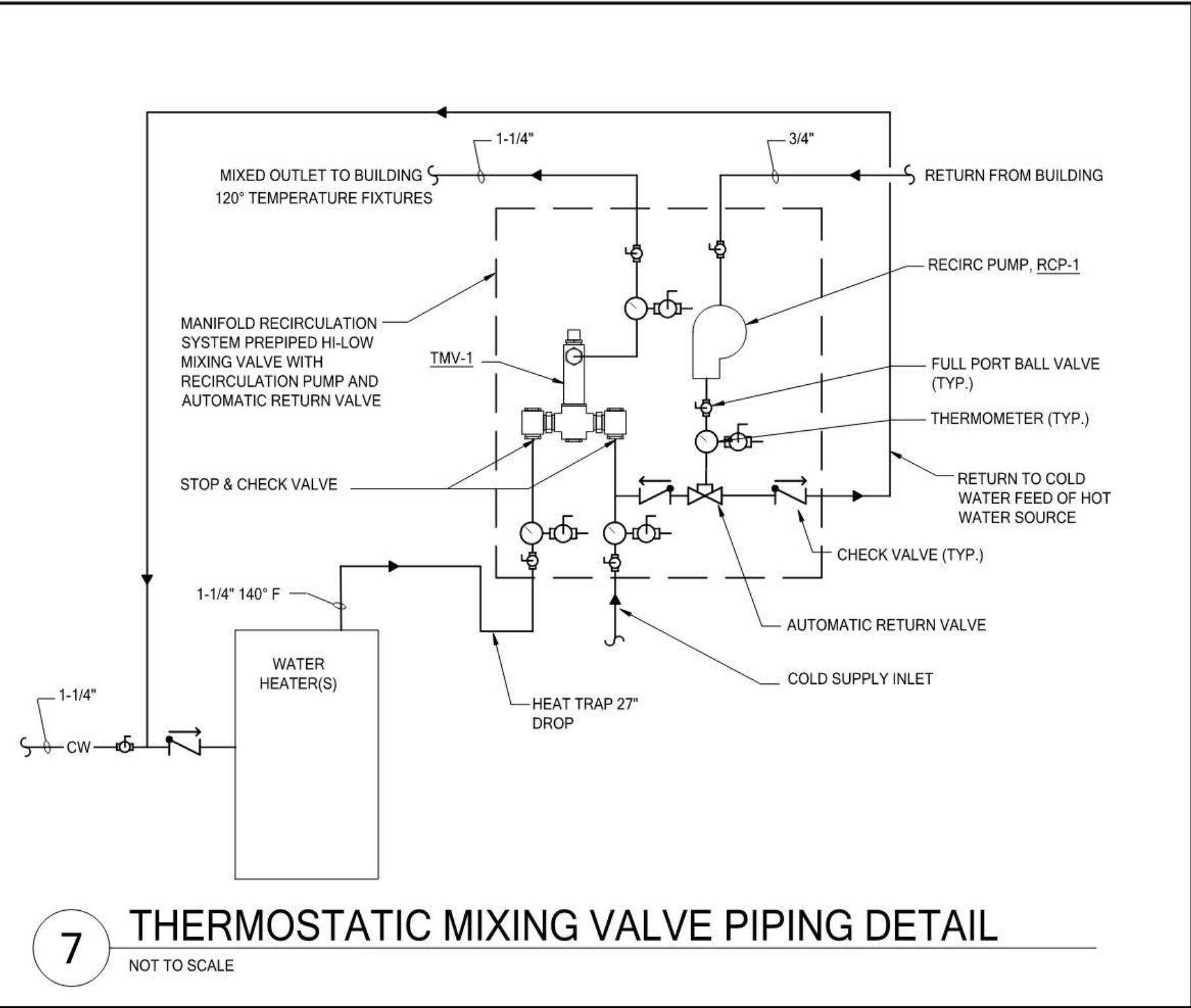
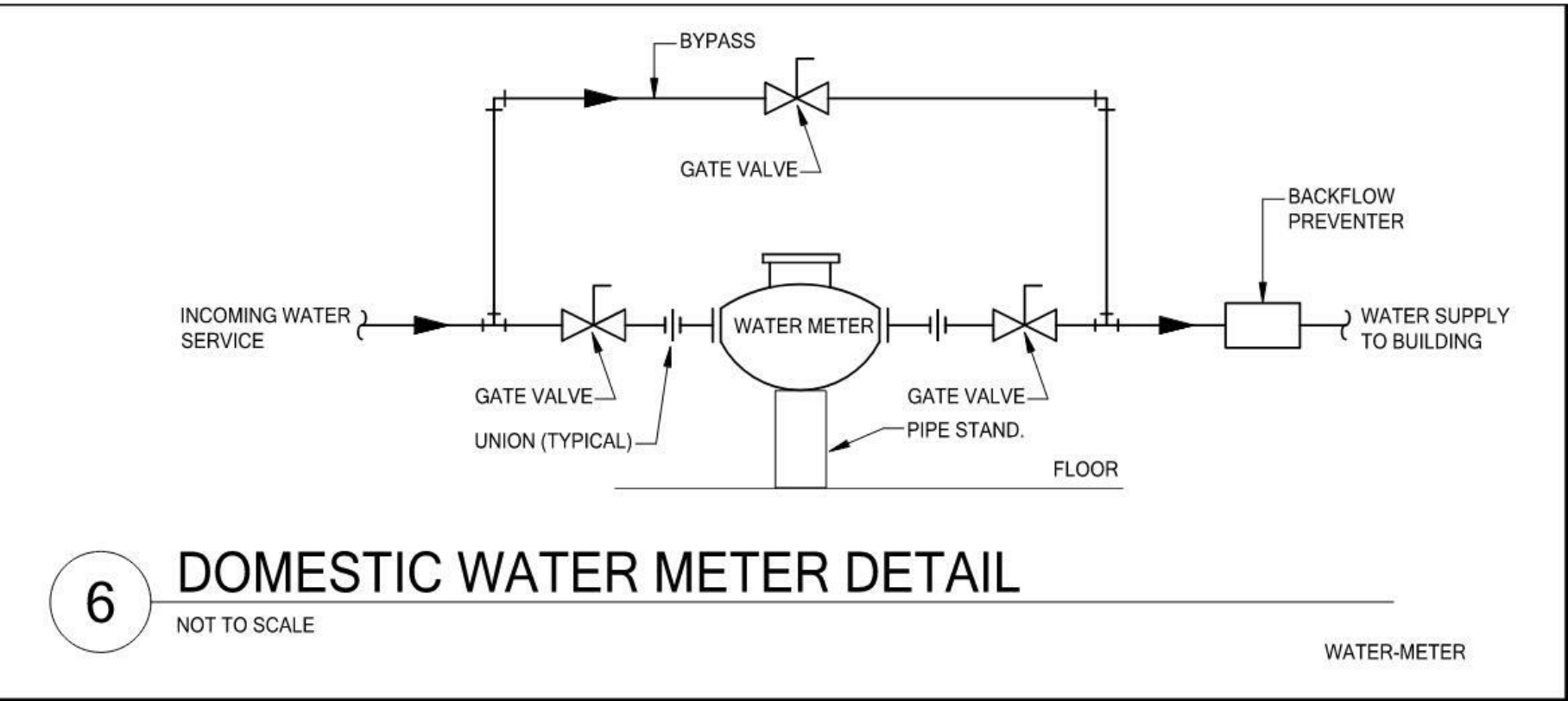
CONDENSING UNIT SCHEDULE		
UNIT TAG	CU-1	CU-2
MANUFACTURER	CARRIER	CARRIER
MODEL NO.	24ACB760AB03	24ACB760AB03
TYPE	AIR COOLED	AIR COOLED
SERVICE	F-1	F-2
NET CAPACITY (BTUH)	60,000	60,000
NOMINAL TONS	5	5
AMBIENT E.A.T. (°F)	95	95
SEER RATING	17	17
COMPRESSOR		
TYPE	SCROLL	SCROLL
QTY.	1	1
REFRIGERANT	R-410A	R-410A
COOLING STAGES (%CAPACITY)	2-STAGE	2-STAGE
NUMBER OF REF. CIRCUITS	1	1
CONDENSER		
FAN QTY	1	1
REFER TO NOTES		
NOTES: 1. REFER TO SPECIFICATION SECTION 23 6200 FOR ADDITIONAL INFORMATION. 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS. 3. MOUNT CONDENSING UNITS ON NEOPRENE VIBRATION ISOLATION PADS AND CONCRETE HOUSE KEEPING PAD		

CEILING DIFFUSER SIZE SCHEDULE - CD AND CD2		
CFM RANGE	FACE SIZE	NECK SIZE
0 - 125	12"x12"	6" dia.
0 - 125	24"x24"	6" dia.
126 - 225	12"x12"	8" dia.
126 - 225	24"x24"	8" dia.
226 - 330	24"x24"	10" dia.
331 - 440	24"x24"	12" dia.
441 - 590	24"x24"	14" dia.
ALL BRANCH RUN OUTS SHALL BE THE SAME AS THE DIFFUSER NECK SIZE OR EQUIVALENT		

WATER SOFTENER SCHEDULE											
UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	TYPE	EXCHANGE CAPACITY (GRAINS)	CONT. FLOW RATE (GPM @ 15 PSI LOSS)	PEAK FLOW RATE (GPM @ 25 PSI LOSS)	RESIN QUANTITY (CU FT. PER TANK)	BY-PASS VALVE SIZE (IN.)	CONTROL VALVE SIZE (IN.)	SOFTENER TANK SIZE (IN.)
WS-1	STORAGE/MECHANICAL 107	WATER CONTROL CORP.	SF-48-MR	SIMPLEX	48,000	19	25	2	1	1	12
NOTES: 1. REFER TO SPECIFICATION SECTION 223100 FOR ADDITIONAL REQUIREMENTS. 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS (VOLTS AND PHASE).											

ENERGY RECOVERY UNIT SCHEDULE	
EQUIPMENT TAG:	ERU-1
LOCATION	MECHANICAL ROOM
MANUFACTURER	RENEWAIRE
MODEL	HE1.5XIN/V
MOUNTING TYPE	FLOOR MOUNTED
SUPPLY FAN:	
TYPE	ECM
TOTAL AIRFLOW (CFM)	800
EXTERNAL STATIC PRESSURE ("W.C.)	0.07
MOTOR HORSEPOWER	1
EXHAUST FAN:	
TYPE	ECM
TOTAL AIRFLOW (CFM)	800
EXTERNAL STATIC PRESSURE ("W.C.)	0.07
MOTOR HORSEPOWER	1
ENERGY RECOVERY PLATE EXCHANGER:	
SENSIBLE HEATING EFFECTIVENESS	0.77
TOTAL HEATING EFFECTIVENESS	0.72
SENSIBLE COOLING EFFECTIVENESS	0.77
TOTAL COOLING EFFECTIVENESS	0.62
FILTER:	
TYPE	PLEATED
EFFICIENCY (%)	MERV 13, 2"
REFER TO NOTES	
NOTES: 1. REFER TO SPECIFICATION SECTION 23 7200 FOR ADDITIONAL REQUIREMENTS. 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS. 3. PROVIDE WITH DOUBLE WALL CABINET CONSTRUCTION 4. PROVIDE WITH FACTORY FURNISHED ECM SUPPLY AND EXHAUST FAN MOTORS. 5. PROVIDE WITH THE BYPASS ECONOMIZER OPTION.	

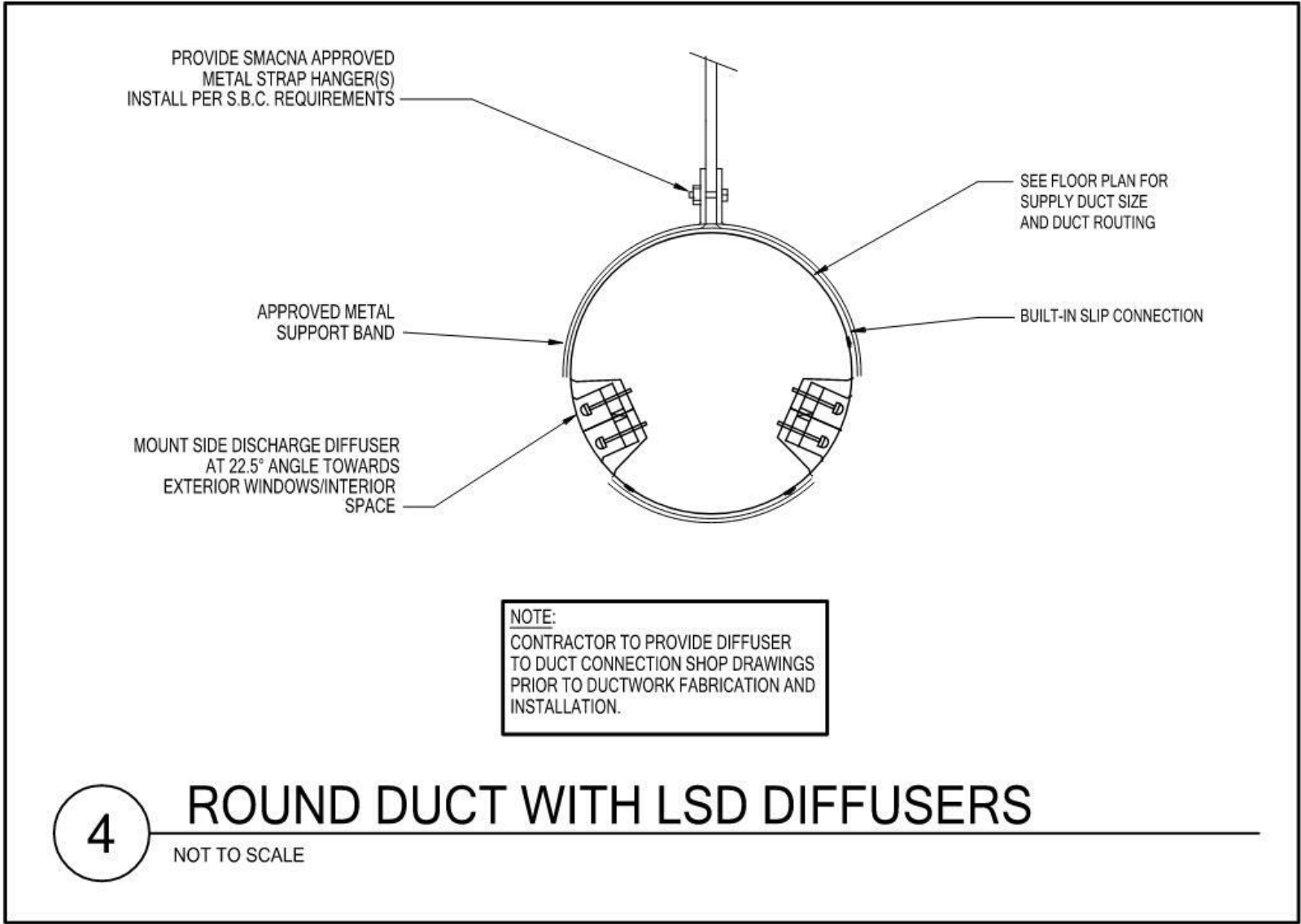
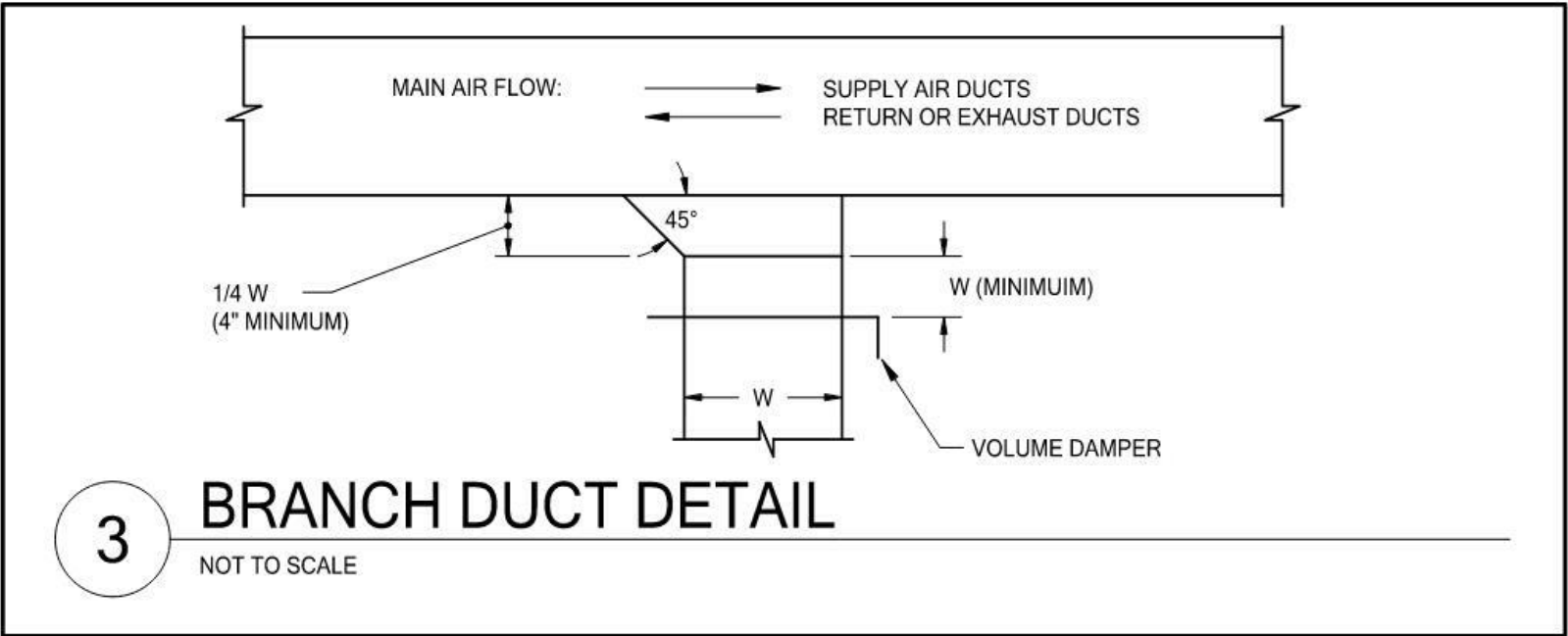
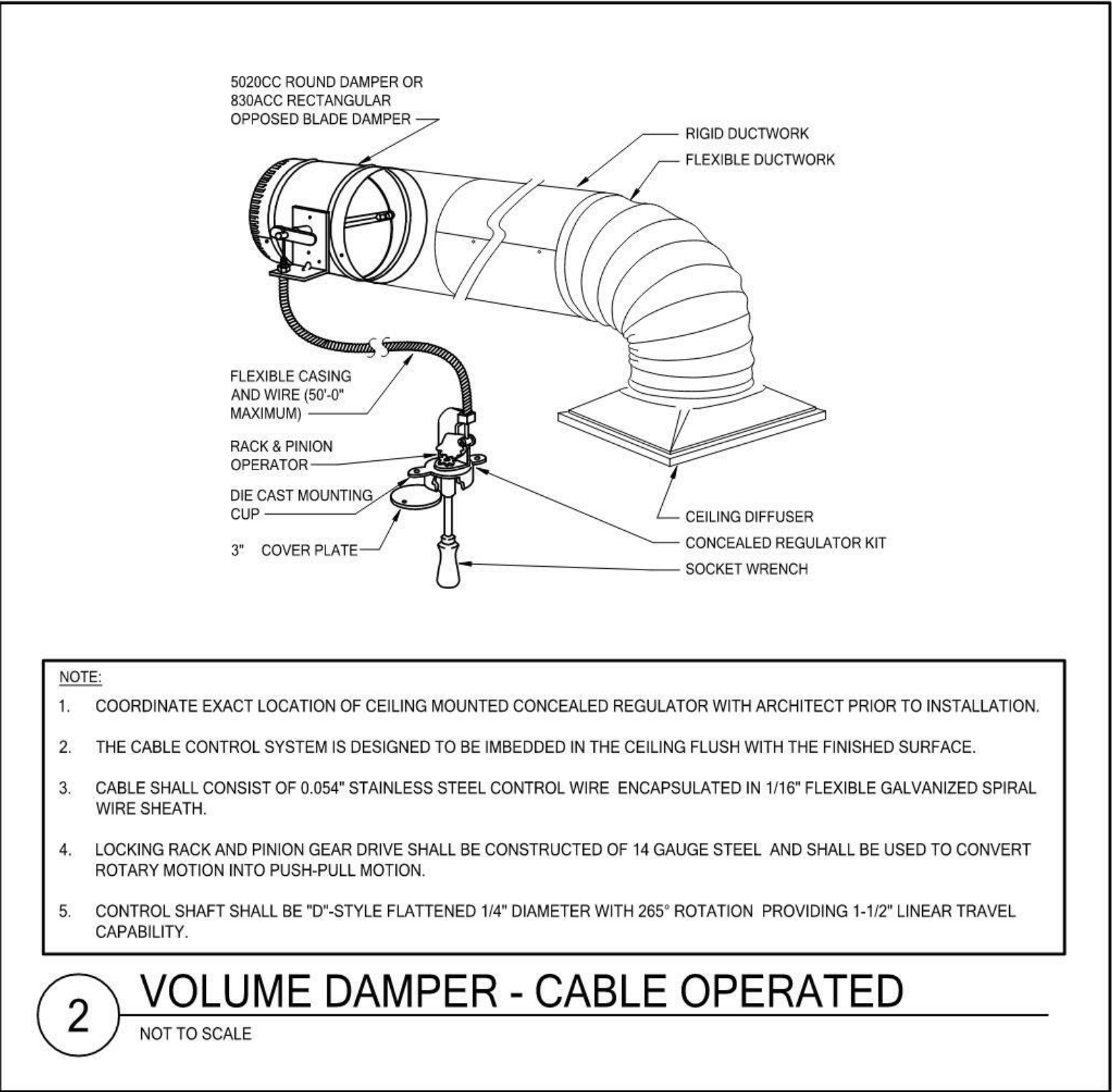
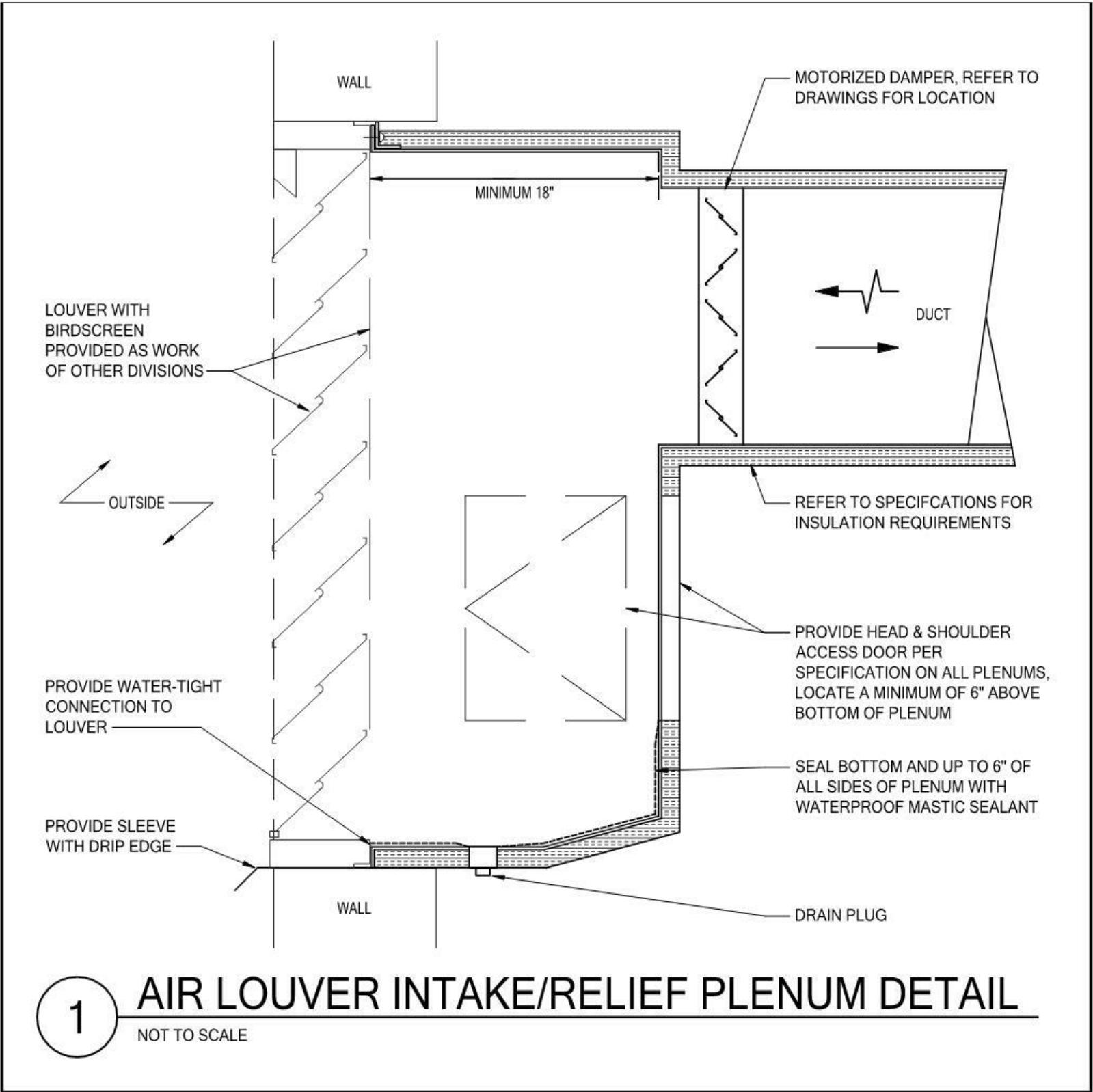
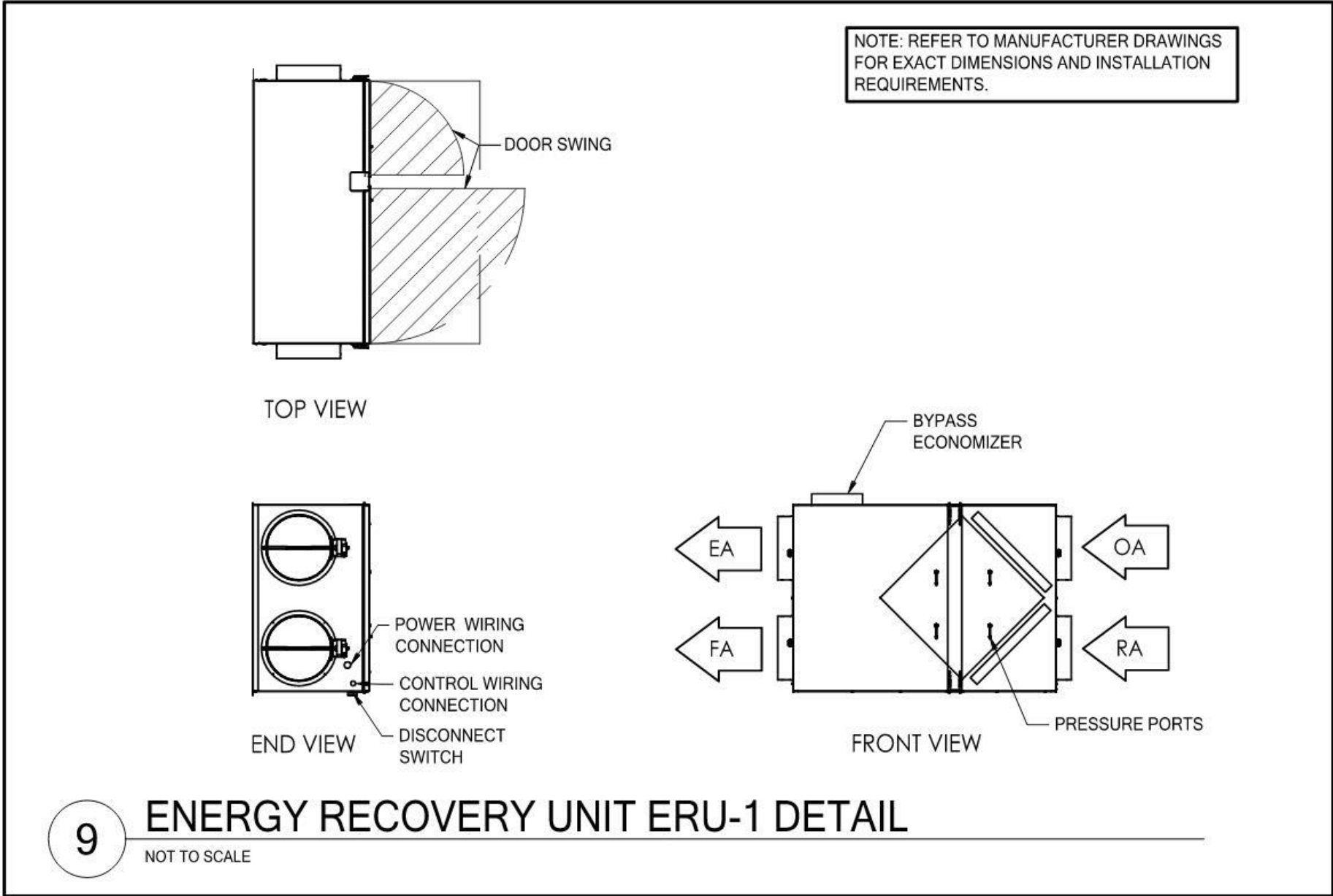
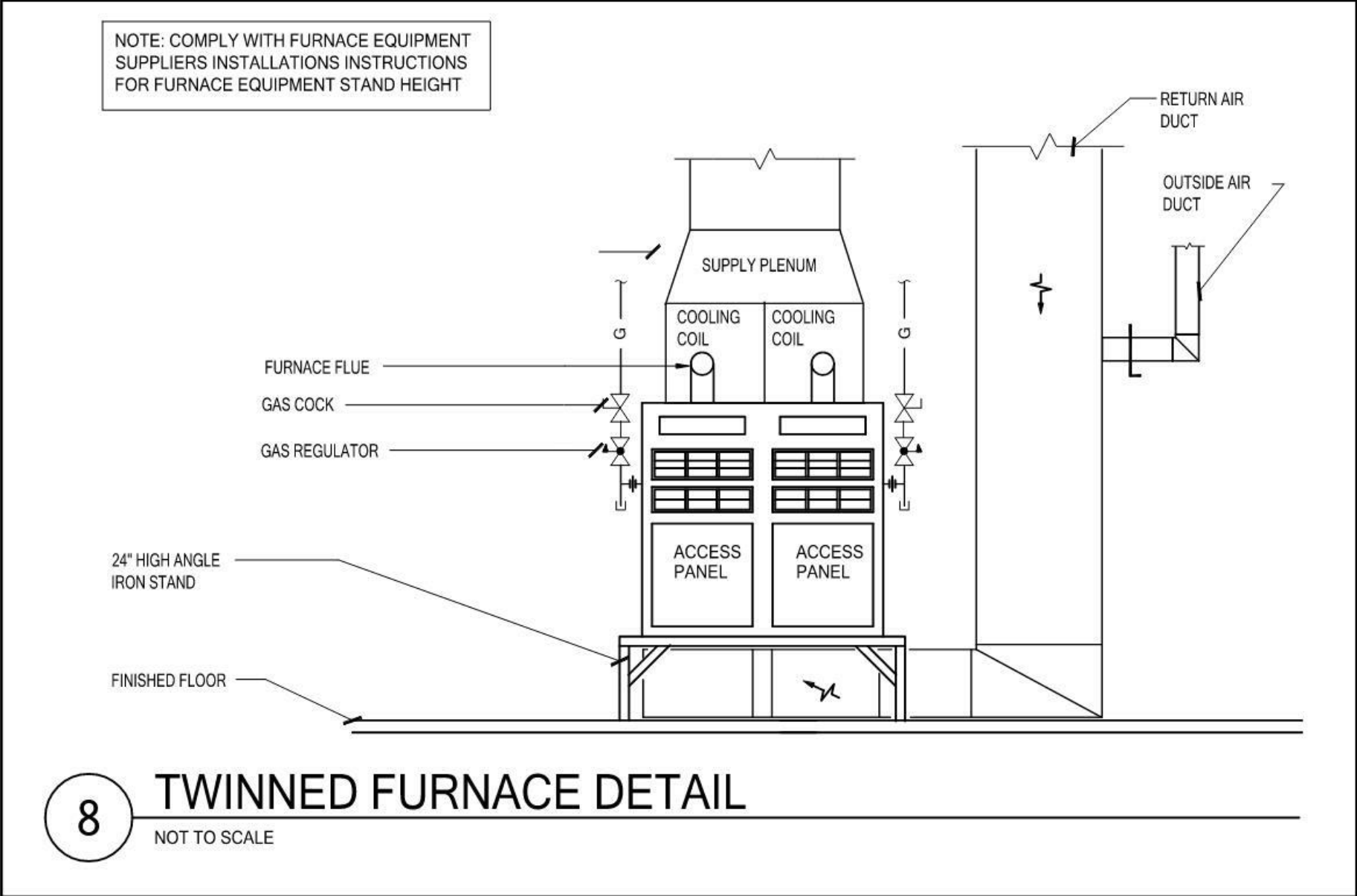
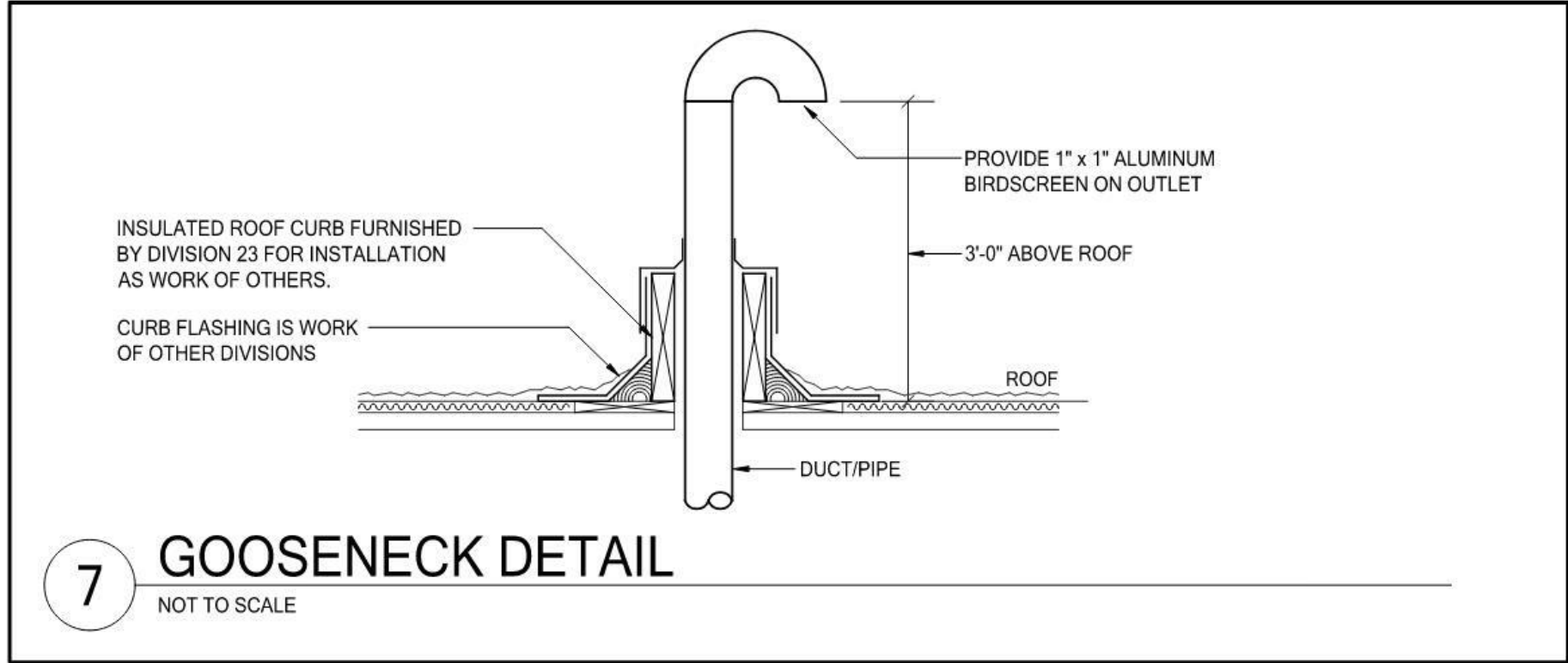
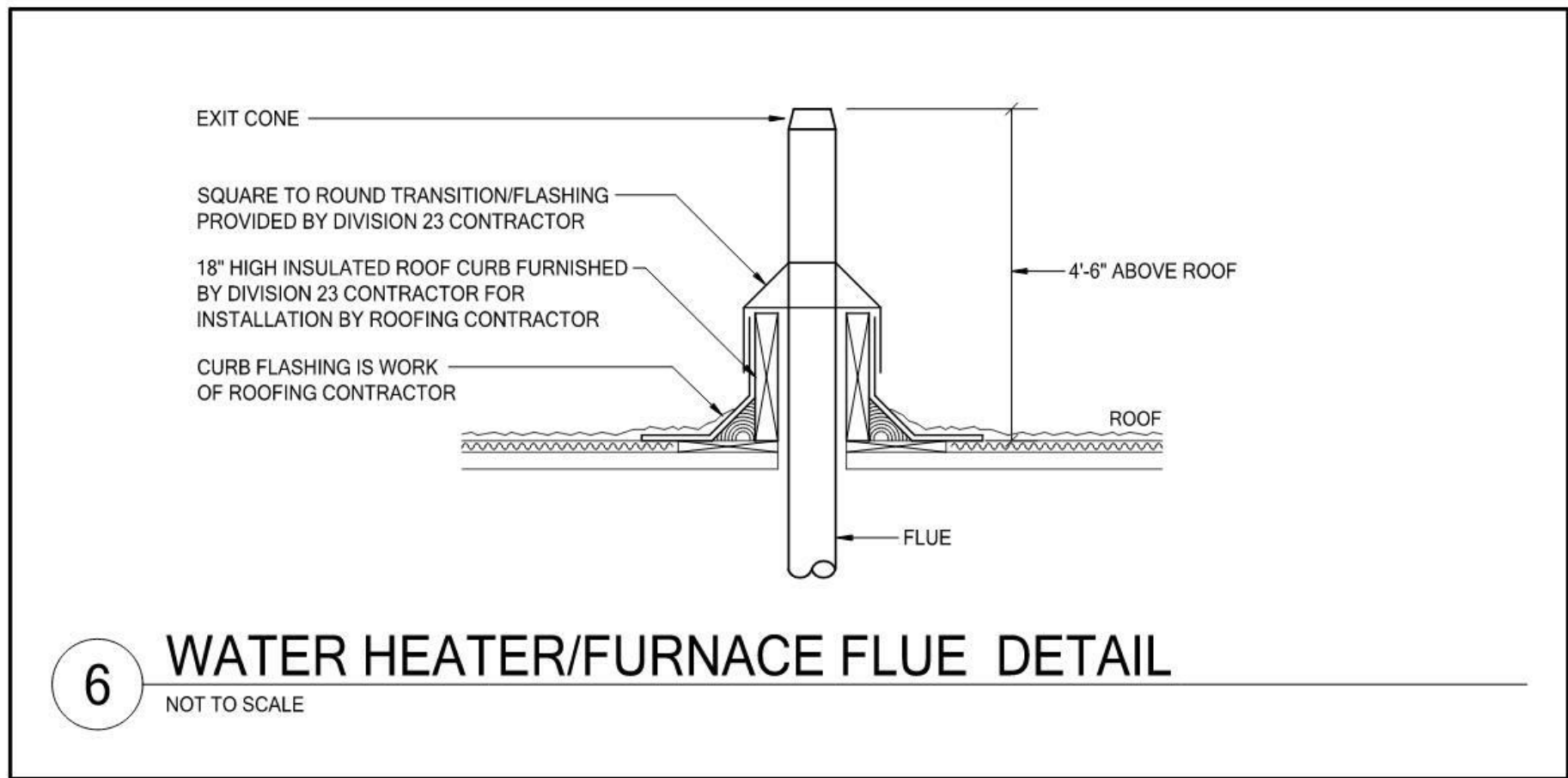
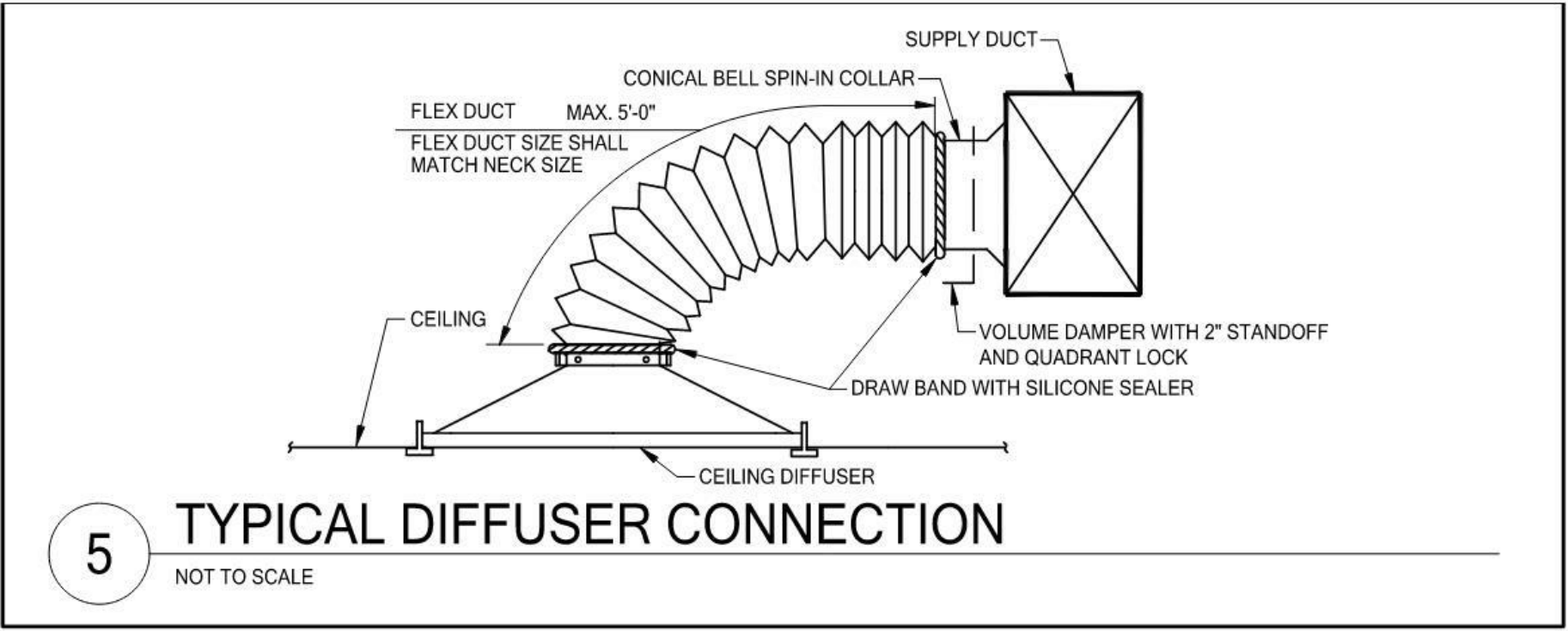
FURNACE SCHEDULE		
UNIT TAG:	F-1	F-2
SERVICE	BLDG	BLDG
MANUFACTURER	CARRIER	CARRIER
MODEL	59TP6A120E	59TP6A120E
TYPE	INDOOR	INDOOR
AFUE (EFFICIENCY)	96	96
CONFIGURATION	VERTICAL	VERTICAL
FUEL	NATURAL GAS	NATURAL GAS
INPUT (BTUH)	120,000	120,000
OUTPUT (BTUH)	117,000	117,000
BLOWER:		
CFM	2,000	2,000
FILTERS:		
TYPE	PLEATED	PLEATED
EFFICIENCY	MERV 13	MERV 13
COOLING COIL:		
MODEL	CAPVP6124ALA	CAPVP6124ALA
TYPE	DX	DX
SIZE	60	60
CAPACITY (BTUH)	60,000	60,000
ENT. AIR TEMP. DEG F DB/WB	80 / 67	80 / 67
LVG. AIR TEMP. DEG F DB/WB	59.11 / 57.96	59.11 / 57.96
REFER TO NOTES:		
NOTES: 1. REFER TO SPECIFICATION SECTION 23 5400 FOR ADDITIONAL INFORMATION. 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS. 3. PROVIDE WITH VARIABLE SPEED BLOWER MOTOR, TWO SPEED INDUCED MOTOR, AND TWO-STAGE GAS VALVE. 4. PROVIDE ALUMINIZED STEEL PRIMARY HEAT EXCHANGER, AND STAINLESS STEEL CONDENSING SECONDARY HEAT EXCHANGER. 5. PROVIDE FULLY INSULATED CASING INCLUDING BLOWER SECTION. 6. PROVIDE TWINNING KIT FOR VARIABLE SPEED CONDENSING GAS FURNACES. 7. MOUNT FURNACES ON NEOPRENE VIBRATION ISOLATION PADS.		



No.	Date	Description

MECHANICAL DETAILS

REVISIONS:		
No.	Date	Description



5872 NE CENTRAL AVE,
FRIDLEY MN

CONSULTANT:



NOTES:

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".

* DISTANCE ABOVE TOP OF DOOR FRAME ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE *** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT **** DISTANCE BELOW CEILING

ELECTRICAL ABBREVIATIONS

ELECTRICAL SYMBOL NOTES

ELECTRICAL SHEET INDEX

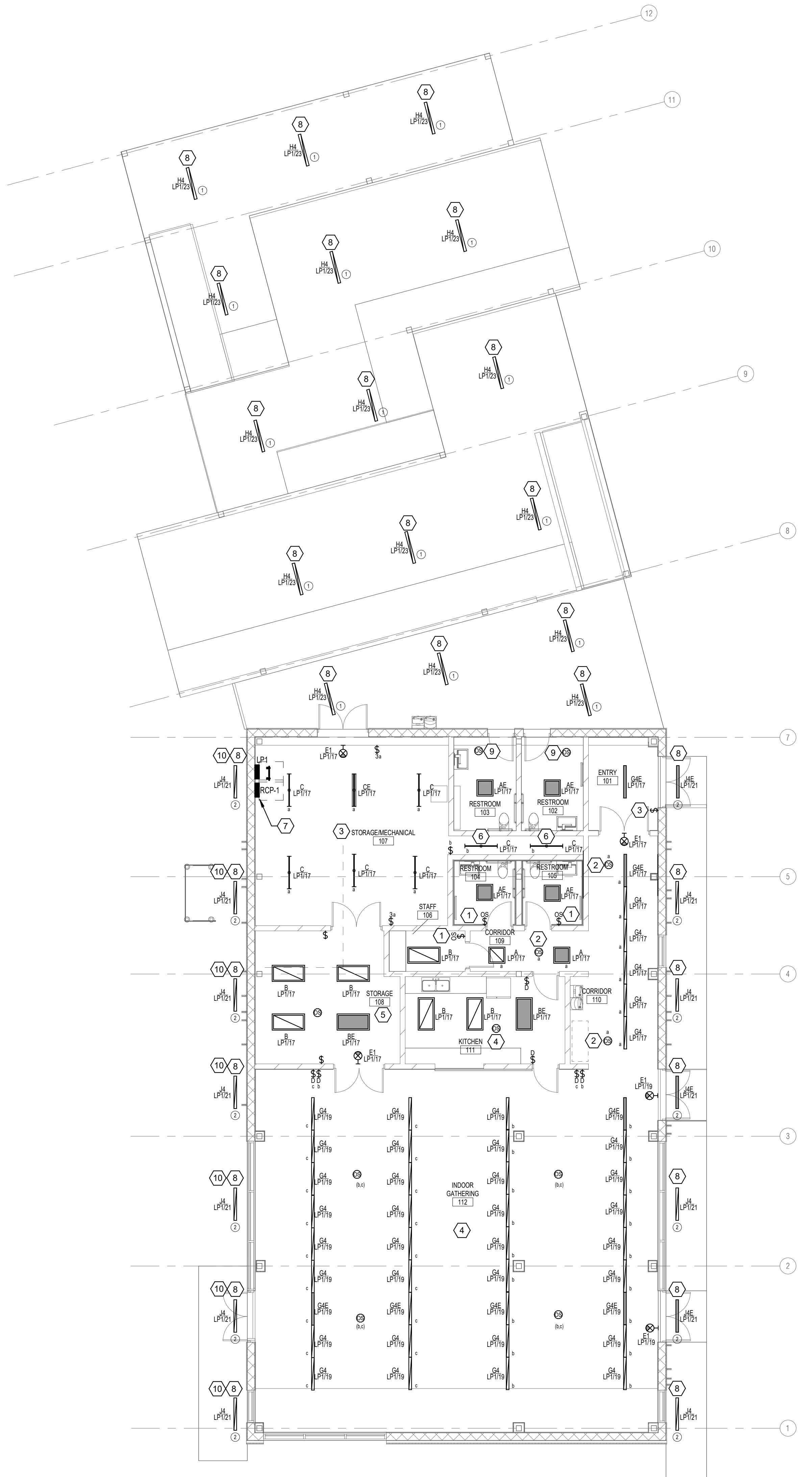
SPECIFIC CODE NOTES

- A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.

PLAN NOTES

- A. PROVIDE AN ADDITIONAL ELECTRICAL CONNECTION TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS. ELECTRIC CONNECTION TO BE FEED FROM UNSWITCHED LEG OF THE CIRCUIT FEEDING THE LIGHT FIXTURES IN THE ROOMAREA THEY ARE LOCATED IN.
- B. PROVIDE PROPER NUMBER OF CONDUCTORS AND CONTROL WIRES TO ACHIEVE CIRCUITING AND LIGHTING AS SHOWN ON THIS DRAWING.
- C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING.
- D. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6" LONG FLEXIBLE METAL CONDUIT.
- E. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES TO BE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
- F. SEE ARCHITECTURAL REFLECTIVE CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHTING FIXTURES.
- G. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELEBOARD BREAKERS (SEE PANELEBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING. UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- H. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET, UNLESS SPECIFICALLY INDICATED OTHERWISE. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
- I. OCCUPANCY SENSOR TYPES, QUANTITIES, AND LOCATIONS SHALL BE INSTALLED AS RECOMMENDED BY THE APPROVED LIGHTING CONTROL MANUFACTURER.
- J. REFER TO LIGHTING CONTROL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- K. ALL OCCUPANCY/VACANCY SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY CONTACT FOR INTEGRATION WITH BASHING CONTROLS OR SYSTEMS.
- L. ALL SPACES CONTROLLED VIA OCCUPANCY/VACANCY SENSORS AND WALL STATIONS OR WALL MOUNTED SENSORS SHALL BE PROGRAMMED FOR MANUAL ON/AUTO OFF OPERATION, SET TIME DELAY TO 15 MINUTES, UNLESS NOTED OTHERWISE.
- M. ALL LIGHT FIXTURES SHALL BE WIRED FOR DIMMING REGARDLESS IF THE FIXTURES ARE SHOWN WITH DIMMING CONTROLS OR NOT. THIS IS FOR FUTURE DIMMING.

1. PROVIDE WALL MOUNTED OCCUPANCY SENSOR FOR CONTROL OF LIGHTING IN THIS SPACE.
2. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR/S WITH REMOTE POWER PACKS FOR CONTROL OF LIGHTING AS SHOWN IN THIS ROOM.
3. PROVIDE LOCAL WALL SWITCH FOR CONTROL OF LIGHTING IN THIS SPACE.
4. PROVIDE CEILING MOUNTED VACANCY SENSOR/S AND WALL MOUNTED ON/OFF/BY OWNER STATION FOR CONTROL OF LIGHTING AS SHOWN IN THIS ROOM. PROGRAM FOR MANUAL ON/OFF OPERATION.
5. PROVIDE CEILING MOUNTED VACANCY SENSOR/S AND WALL MOUNTED ON/OFF STATION FOR CONTROL OF LIGHTING AS SHOWN IN THIS ROOM. PROGRAM FOR MANUAL ON/OFF OPERATION.
6. INSTALL LIGHT FIXTURES SUSPENDED OR SUPPORTED UNDER DUCTWORK AND CENTERED IN SPACE AS ALLOWED. OTHERWISE INSTALL SURFACE MOUNTED ON WALL MOUNTED BELOW MECHANICAL EQUIPMENT.
7. PROVIDE PROGRAMMABLE 4-POLE RELAY CONTROL PANEL WALL MOUNTED IN THIS ROOM AND PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTING CIRCUITS.
8. ROUTE CONTROL OF EXTERIOR LIGHT LIGHTING FIXTURES THROUGH RELAY CONTROL PANEL. SEE RCP-1 SCHEDULE FOR ADDITIONAL TIME SCHEDULES.
9. OCCUPANCY SENSOR IN RESTROOM FURNISHED AND INSTALLED BY OWNER'S SECURITY PROVIDER. CONTRACTOR SHALL WIRE OCCUPANCY SENSOR TO CONTROL LIGHTS IN THIS SPACE. OWNER'S SECURITY VENDOR SHALL BE RESPONSIBLE FOR ALL COMMUNICATIONS BETWEEN SENSOR AND OWNER'S POLICE NOTIFICATION SYSTEM.
10. CONTRACTOR SHALL PROVIDE CUSTOM PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTS AS REQUIRED TO INSTALL HOUSING OF LIGHTS RECESSED AND FLUSH TO BOTTOM CEILINGS. SEE LIGHT SCHEDULE FOR ADDITIONAL REQUIREMENTS.



1 MAIN FLOOR PLAN - LIGHTING
E2.1 1/8" = 1'-0"

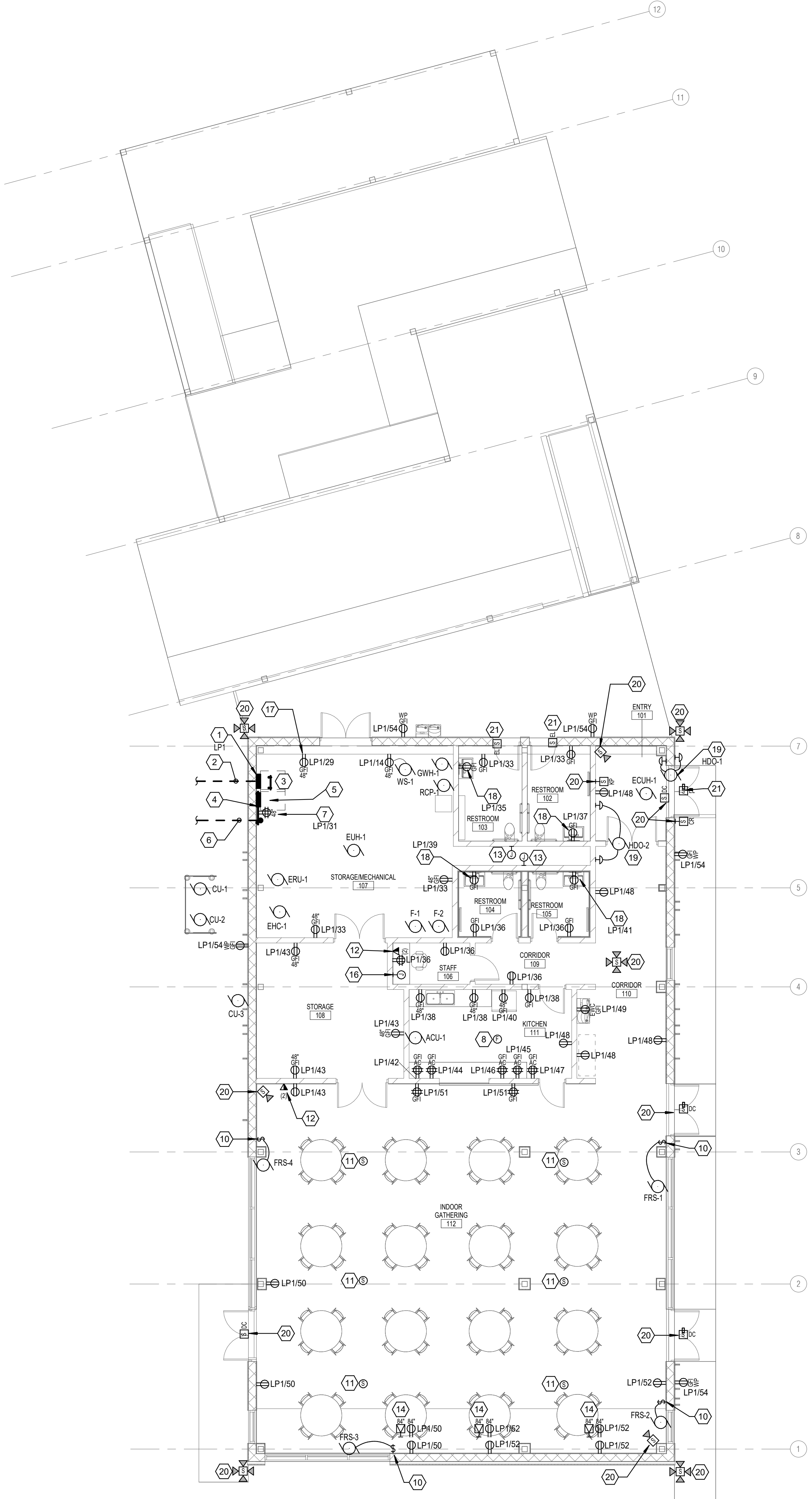


NOTES:
99% CONSTRUCTION DOCUMENT

Not for Construction

- GENERAL NOTES**
- A. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING.
- B. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 30A.
- C. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
- D. ANY MODIFICATIONS TO THE NUMBER, SIZE, AND TYPE OF WIRES OR CONDUITS FROM THOSE INDICATED ON THIS DRAWING ARE PROHIBITED.
- E. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- F. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- G. WHERE DEVICES ARE LOCATED ADJACENT TO OR ABOVE A COUNTER, THE CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND MILLWORK SHOP DRAWINGS.
- H. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET, UNLESS SPECIFICALLY INDICATED OTHERWISE. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
- I. INSTALL CONDUIT WITH NO MORE THAN (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 100'-0" BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.
- J. JUNCTION BOXES SHALL NOT BE INSTALLED ABOVE WOOD CEILINGS. JUNCTION BOXES SHALL BE LOCATED AT AN ACCESSIBLE LOCATION AND PIPED TO DEVICES/BOX SHOWN FOR WOOD CEILINGS.
- K. ALL RACEWAYS FROM DEVICES/JUNCTION BOXES INSTALLED FLUSH TO OR BELOW WOOD CEILING TO BE ROUTED ABOVE CEILINGS BACK TO ACCESSIBLE LOCATION.
- L. DIVISION 26 CONTRACTOR SHALL PROVIDE ROUGH-INS FOR ALL DIVISION 27 SYSTEMS. DIVISION 27 SYSTEMS BY OTHERS. COORDINATE EXACT LOCATION OF ROUGH-INS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- M. DIVISION 26 CONTRACTOR SHALL PROVIDE ROUGH-INS FOR ALL DIVISION 28 SYSTEMS. DIVISION 28 SYSTEMS BY OTHERS. COORDINATE EXACT LOCATION OF ROUGH-INS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- N. FOR ALL ELECTRICAL DEVICES INSTALLED FLUSH TO GYP WALLS WITH CIP PANELS BEHIND THE WALLS, THE CONTRACTOR SHALL PROVIDE A JUNCTION BOX EXTENDER TO ENSURE DEVICES ARE MOUNTED FLUSH TO GYP WALLS. COORDINATE EXTENDER SIZE AND LENGTH WITH CIP PANELS AND GYP WALL CONSTRUCTION.
- O. CONTRACTORS MAY UTILIZE MC CABLES BEHIND CIP WALLS.

- PLAN NOTES**
1. PROVIDE 120/240 VOLT, 1-PHASE, 3-WIRE, 400 AMP SERVICE ENTRANCE RATED PANELBOARD. REFER TO RISER DIAGRAM, SCHEDULES, AND SPECIFICATIONS FOR REQUIREMENTS.
2. SECONDARY SERVICE LATERAL FROM SERVICE PANEL TO UTILITY TRANSFORMER. REFER TO SITE/CIVIL PLANS FOR EXISTING TRANSFORMER LOCATION AND ROUTING PATHWAY. REFER TO POWER RISER DIAGRAM FOR SECONDARY SERVICE LATERAL SIZE.
3. BUILDING ELECTRICAL GROUND BUS. REFER TO RISER DIAGRAM AND DETAILS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE 3/4"x4x8 PLYWOOD, PAINTED WITH GRAY FIRE RETARDANT PAINT FOR FUTURE DATA CABINET AT TELECOMMUNICATIONS DEMARCATION POINT.
5. DIGITAL TIME CLOCK FOR CONTROL OF EXTERIOR BUILDING MOUNTED LIGHTS AND SHELTER LIGHTS. REFER TO LIGHTING PLAN FOR REQUIREMENTS.
6. PROVIDE 4" EMT CONDUIT FROM TELEPHONE DEMARCATION POINT TO LOCAL UTILITY ACCESS POINT FOR LOCAL UTILITY TELECOM CABLEING. REFER TO SITE/CIVIL PLANS FOR LOCAL UTILITY CONNECTION/ACCESS POINT AND ROUTING PATHWAY.
7. DEDICATE 20 AMP RECEPTACLE FOR FUTURE DATA CABINET.
8. PROVIDE LOCAL LINE VOLTAGE FIRE ALARM HEAT DETECTOR WITH SOUNDER BASE.
9. PROVIDE DEDICATED 20 AMP CEILING RECEPTACLES FOR PROJECTORS. INSTALL RECEPTACLES FLUSH TO WOOD CEILING AND WITHIN PLUG-IN-CORD LENGTH OF PROJECT.
10. WALL SWITCH CONTROLS FOR FABRIC ROLLER SHADES. COORDINATE EXACT WIRING REQUIREMENTS WITH SCREEN MANUFACTURER.
11. PROVIDE ROUGH-IN (4-INCH SQ. JB WITH 1" CONDUIT) INTO WOOD CEILING FOR AV PROJECTOR SPEAKERS. EXTEND EMPTY CONDUIT FROM DEVICE LOCATION TO STAFF ROOM. SPEAKERS AND CABLEING BY OTHERS.
12. PROVIDE 4" SQUARE JUNCTION BOX WITH SING-GANG MUD-RING FOR DATA DEVICE. ROUTE 1" CONDUIT WITH NYLON PULL STRING FROM DEVICE INTO MECHANICAL ROOM FOR FUTURE DATA CABLES.
13. PROVIDE 120 VOLT HARDWIRED ELECTRICAL CONNECTION TO FLUSH VALVE TOILETS. COORDINATE EXACT WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PLUMBING FIXTURE MANUFACTURER.
14. PROVIDE ROUGH-IN (4-INCH JUNCTION BOX WITH 1" CONDUIT) FOR TV MONITOR. ROUTE 1" CONDUIT WITH NYLON PULL STRING FROM JUNCTION BOX TO STAFF ROOM JUNCTION BOX. TV MONITOR AND HDMI CABLE BY OTHERS.
15. NOT USED.
16. PROVIDE 6" JUNCTION BOX FOR TV MONITOR CONTROL CABLEING. STUB ALL CONDUITS FROM TV MONITORS TO THIS JB.
17. PROVIDE DEDICATED GFCI RECEPTACLE FOR IRRIGATION CONTROLLER POWER. COORDINATE EXACT LOCATION WITH IRRIGATION CONTRACTOR.
18. DEDICATED 20 AMP, GFCI RECEPTACLE FOR LAV WITH INTEGRAL SOAP DISPENSER AND HAND DRYER. INSTALL RECEPTACLE UNDER LAV AND WITHIN 4-FEET OF PLUG-IN-CORD. COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL PRIOR TO ROUGH-IN.
19. PROVIDE ALL FIELD WIRING AND TERMINATIONS, INCLUDING RACEWAYS, JUNCTION BOXES, AND CONTROL WIRING BETWEEN AUTOMATIC DOOR OPERATORS AND OVERHEAD DOOR MOTOR FOR A FULLY FUNCTIONAL SYSTEM.
20. PROVIDE ROUGH-IN (4-INCH JUNCTION BOX WITH 1" CONDUIT) FOR SECURITY DEVICE. ROUTE 1" CONDUIT WITH NYLON PULL STRING FROM JUNCTION BOX TO MECHANICAL ROOM. DEVICE, CABLEING, TERMINATIONS, ETC. BY OWNERS SECURITY VENDOR.
21. PROVIDE 120 VOLT CONNECTION, INCLUDING JUNCTION BOXES AND POWER SUPPLIES AS REQUIRED FOR SECURITY DEVICES. COORDINATE EXACT REQUIREMENTS WITH OWNER'S SECURITY VENDOR AND DOOR HARDWARE VENDOR.



1 MAIN FLOOR PLAN - POWER
E3.1 1/8" = 1'-0"



LIGHTING FIXTURE SCHEDULE													
TYPE	DESCRIPTION	LENS-LOUVER	MOUNTING	VOLT	WATT	LAMP COLOR	LUMENS	LUMENS PER WATT	BALLAST	MANUFACTURERS	CATALOG SERIES	APPROVED ALTERNATE MANUFACTURES	NOTE
A	2' X 2' LED FLAT PANEL	ACRYLIC LENS	RECESSED	120 V	16 W	LED 1906lm 3500K	1906 lm	119 lm/W	LED DRIVER	LITHONIA	EPANL-2X2-2000LMHE-80CRI-35K-MINA-ZT-MVO LT		
AE	2' X 2' LED FLAT PANEL EMERGENCY	ACRYLIC LENS	RECESSED	120 V	16 W	LED 1906lm 3500K	1906 lm	119 lm/W	LED DRIVER	LITHONIA	EPANL-2X2-2000LMHE-80CRI-35K-MINI1-ZT-MVO LT-E10WCP		2
B	2' X 4' LED FLAT PANEL	ACRYLIC LENS		120 V	31 W	LED 3930lm 3500K	3930 lm	127 lm/W	LED DRIVER	LITHONIA	EPANL-2X4-4000LMHE-80CRI-35K-MINA-ZT-MVO LT		
BE	2' X 4' LED FLAT PANEL	ACRYLIC LENS		120 V	31 W	LED 3930lm 3500K	3930 lm	127 lm/W	LED DRIVER	LITHONIA	EPANL-2X4-4000LMHE-80CRI-35K-MINI1-ZT-MVO LT-E10WCP		2
C	(4') LED STRIP	SEMI-FROST ACRYLIC LENS	CHAIN/SURFACE	120 V	31 W	LED 4144 3500K	4144 lm	134 lm/W	LED DRIVER	METALUX	4SNLED-LD5-LN-UNV-EL14W-L835-CD-1-U-AYC-CHAIN/SET		
CE	(4') LED STRIP	SEMI-FROST ACRYLIC LENS	CHAIN/SURFACE	120 V	31 W	LED 1950lm 3500K	4144 lm	134 lm/W	LED DRIVER	METALUX	4SNLED-LD5-LN-UNV-EL14W-L835-CD-1-U-AYC-CHAINSET		2
E1	CONTEMPORARY LED SINGLE FACED EXIT SIGN WITH BLACK POWDER PAINT ALUMINUM HOUSING, BRUSHED ALUMINUM FACE, RED LETTERS, AND CHEVRON ARROWS AS SHOWN ON PLANS.	---	UNIVERSAL	120 V	5 W	LED 50000 HR			---	LITHONIA	LES 1 W R 120277 EL N SD		1
G4	4" X 4" LINEAR LED	ACRYLIC LENS	SURFACE ON WOOD CEILING	120 V	32 W	LED 625lm PER FOOT 3500K	3200 lm	100 lm/W	LED DRIVER	MARK ARCHITECTURAL LIGHTING	S2SD-LP-XXFT-MSLB-80CRI-35K-1000LMF-DBW-SCT-MINI1-DRP05-120-XXXX		3,4
G4E	4" X 4" LINEAR LED EM	ACRYLIC LENS	SURFACE ON WOOD CEILING	120 V	32 W	LED 625lm PER FOOT 3500K	3200 lm	100 lm/W	LED DRIVER	MARK ARCHITECTURAL LIGHTING	S2SD-LP-XXFT-MSLB-80CRI-35K-1000LMF-5BW-SCT-MINI1-DRP05-120-XXXX-E10WLP-ZT		2,3,4
H4	4" X 4" LINEAR LED	ACRYLIC LENS	RECESSED IN WOOD	120 V	32 W	LED 709lm PER FOOT 3500K	3200 lm	100 lm/W	LED DRIVER	MARK ARCHITECTURAL LIGHTING	SL2L-L0P-4FT-FLP-WOOD CEILING-80CRI-35K-800LMF-MINI1-120-XXX-ZT-D PL		3,5
J4	4" X 4" LINEAR LED EM	ACRYLIC LENS	RECESSED IN WOOD	120 V	32 W	LED 709lm PER FOOT 3500K	3200 lm	100 lm/W	LED DRIVER	MARK ARCHITECTURAL LIGHTING	SL2L-L0P-4FT-FLP-WOOD CEILING-80CRI-35K-800LMF-MINI1-DRP05-120-XXX-1E10WLP-ZT-DPL		3,5
J4E	4" X 4" LINEAR LED EM	ACRYLIC LENS	RECESSED IN WOOD	120 V	32 W	LED 709lm PER FOOT 3500K	3200 lm	100 lm/W	LED DRIVER	MARK ARCHITECTURAL LIGHTING	SL2L-L0P-4FT-FLP-WOOD CEILING-80CRI-35K-800LMF-MINI1-DRP05-120-XXX-1E10WLP-ZT-DPL		2,3,5
GENERAL NOTES: A. ALL LIGHT FIXTURE LUMEN VALUES LISTED ARE DELIVERED LUMEN. B. REFER TO DETAILS FOR INDEPENDENTLY SUPPORTING OF LIGHT FIXTURES LOCATED IN ACOUSTICAL TILE CEILINGS. C. ALL LED DRIVERS SHALL BE 0-10 VOLT DIMMING DRIVER UNLESS NOTED OTHERWISE. D. ALL ADDITIONAL HARDWARE FOR MOUNTING OF SURFACE, RECESSED, OR PENDANT FIXTURES SHALL BE INCLUDED UNDER THIS CONTRACT. E. REFER TO THE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR THE MOUNTING REQUIREMENTS OF EACH FIXTURE TYPE PRIOR TO THE INSTALLATION OF THE FIXTURES. GOOD WORKMANSHIP SHALL BE EVIDENT IN THE FINISHED INSTALLATION OR THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO CORRECT THE POOR WORKMANSHIP AT NO ADDITIONAL COST TO THE OWNER. F. EMERGENCY FIXTURES SHALL BE PROVIDED WITH AN INTEGRAL ILLUMINATED TEST SWITCH. G. REFER TO SPECIFICATION SECTION 26 5100 - INTERIOR LIGHTING, FOR ADDITIONAL FIXTURE REQUIREMENTS. H. REFER TO SPECIFICATION SECTION 25 5600 - EXTERIOR LIGHTING, FOR ADDITIONAL FIXTURE REQUIREMENTS. I. COORDINATE WITH ARCHITECTURAL CEILING GRID TYPE WITH FIXTURES SPECIFIC GRID TYPE MOUNTING. SCHEDULE NOTES: 1. PROVIDE WITH LONG LIFE NICKEL CADMIUM BATTERY. 2. PROVIDE WITH EMERGENCY BACK UP RATED FOR MINIMUM OF 90 MINUTES RUNTIME. 3. INSTALL ALL DRIVERS AND EMERGENCY BATTERY PACKS AT ACCESSIBLE LOCATIONS. PROVIDE HOMERUN CONDUITS FOR EACH LIGHT FIXTURE OR ROW OF FIXTURE AS REQUIRED BETWEEN LIGHT FIXTURES. REMOTE DRIVERS (WHERE NOT INTEGRAL), SWITCHES, EMERGENCY BATTERY PACKS, ETC. EXPOSED JUNCTION BOXES AND CONDUITS IN OR BELOW CEILINGS IS NOT ALLOWED. COMPLY WITH ALL NEC REQUIREMENTS. 4. COORDINATE INSTALLATION OF SURFACE MOUNTED LIGHT FIXTURES WITH WOOD PANEL CEILING. COORDINATE EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. 5. CONTRACTOR SHALL INSTALL RECESSED LIGHT FIXTURES IN WOOD PANEL CEILING. CONTRACTOR SHALL PROVIDE ALL WORK AS REQUIRED TO CUT, TRIM, OR MODIFY WOOD PANEL CEILINGS AS REQUIRED. FIXTURE HOUSING TO BE INSTALLED FLUSH TO BOTTOM OF WOOD PANEL CEILINGS. PROVIDE TRIMS, MOUNTING BRACKETS, SUPPORTS, ETC. AS REQUIRED FROM APPROVED MANUFACTURER. IN ADDITIONAL TO TYPICAL SHOP SUBMITTAL REQUIREMENTS, CONTRACTOR SHALL ALSO PROVIDE CUSTOM SHOP DRAWING DETAILS FROM APPROVED MANUFACTURER, CLEARLY INDICATING INSTALLATION OF LIGHT FIXTURES TO WOOD PANEL CEILINGS, SUPPORTS, TRIMS, AND LENS.													

Data Panel: RCP-1

Location:

CKT	Circuit Description
1	EXTERIOR LIGHTS UNDER CANOPY - CONTROL VIA TIME OF DAY PROGRAMMING OR PHOTOCCELL WITH OVERRIDE FOR LATE NIGHT HOURS.
2	EXTERIOR LIGHTS AROUND BUILDING - CONTROL VIA TIME OF DAY PROGRAMMING OR PHOTOCCELL WITH OVERRIDE FOR LATE NIGHT HOURS.
3	EXTERIOR PARKING LOT/SITE LIGHTS - CONTROL VIA TIME OF DAY PROGRAMMING OR PHOTOCCELL WITH OVERRIDE FOR LATE NIGHT HOURS.
4	EXTERIOR PARKING LOT/SITE LIGHTS - CONTROL VIA TIME OF DAY PROGRAMMING OR PHOTOCCELL WITH OVERRIDE FOR LATE NIGHT HOURS.
5	SPARE
6	SPARE
7	SPARE
8	SPARE
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

- Notes:
1. COORDINATE TIME OF DAY PROGRAMMING REQUIREMENTS WITH OWNER.
2. COORDINATE PARKING LOT/SITE LIGHTING WORK WITH CIVILLANDSCAPE.

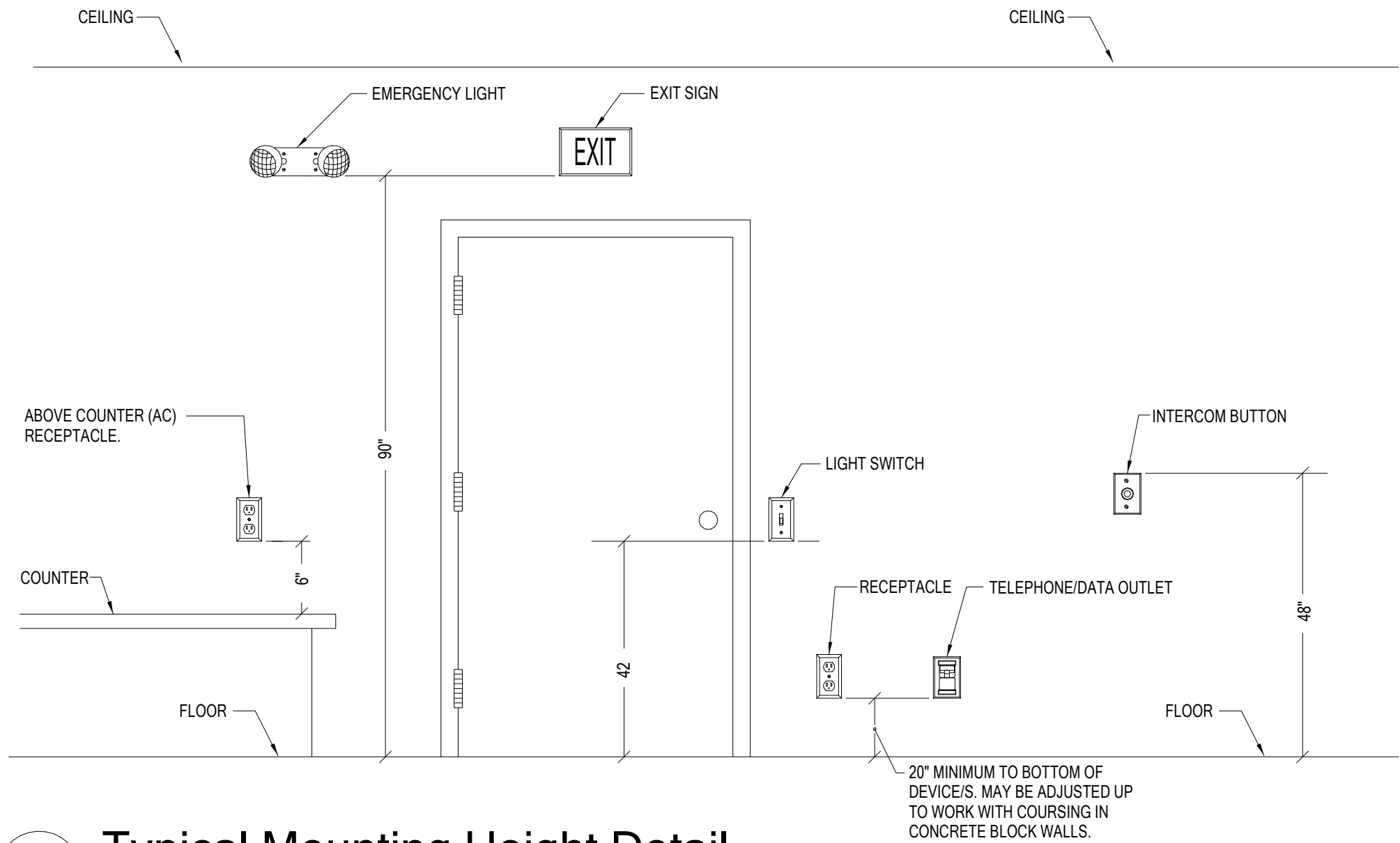
ELECTRICAL EQUIPMENT SCHEDULE																		
NO.	DESCRIPTION	LOCATION (R/W)	LOAD			VOLT	PHASE	PANEL	CIRCUIT NUMBER	CONDUIT & WIRE SIZE	STARTER		CONTROL DEVICE		DISCONNECT		NOTES	
			HP	FLA	MCA						COMPONENT	FURN. /INST.	COMPONENT	FURN. /INST.	COMPONENT	FURN. /INST.		
ACU-1	AIR CONDITIONING UNIT	111		1 A	1 A	240 V	1	LP1	20,22	(3/4")C-3#10, #10 GND	----	----	----	----	MMS	DIV 26/ DIV 26		
CU-1	CONDENSING UNIT	EXTERIOR	5	30 A	38 A	240 V	1	LP1	1,3	(1")C-3#6, #10 GND	MFG	MFG			603 NEMA 3R	DIV 26/ DIV 26	1,2	
CU-2	CONDENSING UNIT	EXTERIOR	5	30 A	38 A	240 V	1	LP1	2,4	(1")C-3#6, #10 GND	MFG	MFG			603 NEMA 3R	DIV 26/ DIV 26	1,2	
CU-3	CONDENSING UNIT	EXTERIOR		15 A	19 A	240 V	1	LP1	20,22	(1")C-3#6, #10 GND	MFG	MFG			303 NEMA 3R	DIV 26/ DIV 26	1,2,3	
ECUH-1	ELECTRIC CABINET UNIT HEATER	101		16.7 A	21 A	240 V	1	LP1	16,18	(1/2")C-2#10, #10 GND	----	----	----	----	603 NEMA 1	DIV 26/ DIV 26	1,2	
EH-1	ELECTRIC HEATING COIL	107		31.5 A	39 A	240 V	1	LP1	8,10	(1")C-3#6, #10 GND	----	----	----	----	603 NEMA 1	DIV 26/ DIV 26		
ERU-1	ENERGY RECOVERY UNIT	107		8 A	10 A	240 V	1	LP1	7,9	(1/2")C-2#12, #12 GND	----	----	----	----	303 NEMA 1	DIV 26/ DIV 26	1	
EUH-1	ELECTRIC UNIT HEATER	107		43.3 A	54 A	240 V	1	LP1	11,13	(1-1/4")C-3#4, #8 GND	----	----	----	----	603 NEMA 1	DIV 26/ DIV 26	1	
F-1	FAN/FURNACE	107		12.6 A	16 A	120 V	1	LP1	5	(3/4")C-3#10, #10 GND	----	----	----	----	MMS	DIV 26/ DIV 26	4	
F-2	FAN/FURNACE	107		12.6 A	16 A	120 V	1	LP1	6	(3/4")C-3#10, #10 GND	----	----	----	----	MMS	DIV 26/ DIV 26	4	
FRS-1	FABRIC ROLLING SHADE	112		6 A	8 A	120 V	1	LP1	53	(1/2")C-2#12, #12 GND	----	----	SWITCH	MFG/DI V 26	MMS	DIV 26/ DIV 26	6	
FRS-2	FABRIC ROLLING SHADE	112		2 A	3 A	120 V	1	LP1	53	(1/2")C-2#12, #12 GND	----	----	SWITCH	MFG/DI V 26	MMS	DIV 26/ DIV 26	6	
FRS-3	FABRIC ROLLING SHADE	112		6 A	8 A	120 V	1	LP1	55	(1/2")C-2#12, #12 GND	----	----	SWITCH	MFG/DI V 26	MMS	DIV 26/ DIV 26	6	
FRS-4	FABRIC ROLLING SHADE	112		6 A	8 A	120 V	1	LP1	55	(1/2")C-2#12, #12 GND	----	----	SWITCH	MFG/DI V 26	MMS	DIV 26/ DIV 26	6	
GW-1	GAS WATER HEATER	107		12 A	15 A	120 V	1	LP1	15	(1/2")C-2#12, #12 GND	----	----	----	----	MMS	DIV 26/ DIV 26		
HDO-1	DOOR OPERATOR			12 A	15 A	120 V	1	LP1	24	(1/2")C-2#12, #12 GND	----	----	----	----	MMS	DIV 26/ DIV 26	5	
HDO-2	DOOR OPERATOR			12 A	15 A	120 V	1	LP1	26	(1/2")C-2#12, #12 GND	----	----	----	----	MMS	DIV 26/ DIV 26	5	
RCP-1	RECIRC PUMP	107	1/2	9.8 A	12 A	120 V	1	LP1	12	(1/2")C-2#12, #12 GND	----	----	----	----	MMS	DIV 26/ DIV 26		
WS-1	WATER SOFTENER	107		0 A	0 A	120 V	1	LP1	14	(1/2")C-2#12, #12 GND	----	----	----	----	GFI RCPT	DIV 26/ DIV 26		
STARTER TYPES: FVNR FULL VOLTAGE NON-REVERSING FVR FULL VOLTAGE REVERSING 2-SPD TWO SPEED VFD VARIABLE FREQUENCY DRIVE RVS REDUCED VOLTAGE COMBINATION DISCONNECT TYPES: FS FUSED SWITCH NFS NON-FUSED SWITCH MCP MOTOR CIRCUIT PROTECTOR CB CIRCUIT BREAKER CONTROL DEVICES: HOA HAND-OFF-AUTO SWITCH RP RED (RUN) PILOT LIGHT GP GREEN (POWER) PILOT LIGHT 0/0 ON-OFF SELECTOR SWITCH S/S STOP-START PUSHBUTTONS ABBREVIATIONS: EC ELECTRICAL CONTRACTOR MC MECHANICAL CONTRACTOR GC GENERAL CONTRACTOR TC TEMPERATURE CONTROL OWN OWNER																		
NOTES: 1. FUSE PER APPROVED MANUFACTURER'S RECOMMENDATIONS. 2. PROVIDE ALL RACEWAYS, WIRING, JUNCTION BOXES, ETC. BETWEEN OUTDOOR CONDENSING UNIT AND INDOOR FAN UNIT REQUIRED FOR FUNCTIONAL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR. 3. COORDINATE EXACT POWER WIRING REQUIREMENT FOR INDOOR UNIT. UNIT MAY BE SUPPLIED BY OUTDOOR UNIT. 4. PROVIDE LOCAL DUCT SMOKE DETECTOR FOR LOCAL SHUT DOWN OF FURNACES. PROVIDE DEVICE WITH AUDIBLE ALARM AND OUTPUT CONTACT FOR BAS SYSTEM. 5. PROVIDE ALL FIELD WIRING, INCLUDING RACEWAYS, JUNCTION BOXES, AND CONTROL WIRING BETWEEN PUSH BUTTONS AND OVERHEAD DOOR OPERATOR FOR FULLY FUNCTIONAL SYSTEM. COORDINATE EXACT WIRING REQUIREMENTS WITH AUTOMATIC DOOR OPERATOR MANUFACTURER/INSTALLER. 6. CONTRACTOR SHALL PROVIDE FIELD WIRING, RACEWAYS, JUNCTION BOXES, ETC. AS REQUIRED FOR CONTROL WIRING BETWEEN FABRIC ROLLER SHADES AND WALL SWITCHES FOR SWITCH OF MOTOR. CONNECT INTERLOCK POWER AND CONTROL CONNECTIONS OF ALL FABRIC ROLLER SHADES AT EACH SET OF WINDOWS FOR SINGLE OPERATION FROM CONTROL INDICATED ON PLANS. COORDINATE EXACT QUANTITIES OF CONNECTIONS REQUIRED WITH ARCHITECT AND APPROVED FABRIC ROLLER SHADE MANUFACTURER.																		

PANELBOARD: LP1																
LOCATION: STORAGE/MECHANICAL 107						VOLTAGE: 120/240 V, 1 ø 3 W.										
MOUNTING: SURFACE						NEMA 1										
MAIN DEVICE: 600 A						A.I.C. RATING: 65000 AMPS SYMMETRICAL										
BUS AMPS: 600 AMPS						SPECIAL:										
LOAD DESCRIPTION		Notes	BKR	POLES	CKT	A		B		C		CKT	POLES	BKR	Notes	LOAD DESCRIPTION
CU-1 - MECH 107	--	20 A	2	1	3	3600	3600	1	2	2	20 A	2	2	20 A	--	MECH 107 - CU-2
F-1 - MECH 107		20 A	1	5	1512	1512		3600	3600			4	--	--	--	MECH 107 - F-2
ERU-1 - MECH 107		20 A	2	7			960	3780				8	2	20 A		MECH 107 - ECH-1
EUH-1 - MECH 107	--	--	--	9	960	3780						10	--	--	--	MECH 107 - RCP-1
		20 A	2	11			5196	1176				12	1	20 A		MECH 107 - WS-1
	--	--	--	13	5196	180						14	1	20 A		ECUH-1 ENTRY 101
GW-1 - MECH 107		20 A	1	15			1440	2004				16	2	20 A		
LITES-108,111,102,103,104,105,107		20 A	1	17	831	2004						18	--	--	--	
INDOOR GATHERING 112		20 A	1	19			1162	1920				20	2	20 A		CUH-3ACU-1 ROOM 111
LIGHTS - EXTERIOR SIDES OF BUILDING		20 A	1	21	448	1920						22	--	--	--	
LIGHTS - EXTERIOR UNDER CANOPY		20 A	1	23			512	1440				24	1	20 A		HDO-1
LIGHTS - EXTERIOR PARKING/SITE		20 A	1	25	500	1440						26	1	20 A		HDO-2
LIGHTS - EXTERIOR PARKING/SITE		20 A	1	27			500	7200				28	2	40 A		EV CHARGING STATION
RCPT STORAGE/MECHANICAL 107		20 A	1	29	180	0						30	--	--	--	
RCPT STORAGE/MECHANICAL 107		20 A	1	31			360	7200				32	2	40 A		EV CHARGING STATION
RCPT ROOM 107, 102, 103		20 A	1	33	720	0						34	--	--	--	
RCPT RESTROOM 103 - HD COMBO	1	20 A	1	35			1440	1080				36	1	20 A		RCPT ROOM 109, 106, 104, 105
RCPT RESTROOM 102 - HD COMBO	1	20 A	1	37	1440	540						38	1	20 A	1	RCPT KITCHEN 111
RCPT RESTROOM 104 - HD COMBO	1	20 A	1	39			1440	1200				40	1	20 A	1	RCPT FRIDGE - KITCHEN 111
RCPT RESTROOM 105 - HD COMBO	1	20 A	1	41	1440	360						42	1	20 A		RCPT CROCKPOT - KITCHEN 111
RCPT STORAGE 108		20 A	1	43			720	360				44	1	20 A		RCPT CROCKPOT - KITCHEN 111
RCPT KITCHEN 111 - CROCKPOT		20 A	1	45	360	360						46	1	20 A		RCPT CROCKPOT - KITCHEN 111
RCPT KITCHEN 111 - CROCKPOT		20 A	1	47			360	900				48	1	20 A		RCPT ROOM 110, 111
RCPT EWC CORRIDOR 110		20 A	1	49	1200	720						50	1	20 A		RCPT INDOOR GATHERING 112
RCPT INDOOR GATHERING 112		20 A	1	51			720	900				52	1	20 A		RCPT INDOOR GATHERING 112
FRS-1, FRS-2 INDOOR GATH 112		20 A	1	53	960	900						54	1	20 A		EXTERIOR RCPTS
FRS-3, FRS-4 INDOOR GATH 112		20 A	1	55			1440	0				56	1	20 A		FLUSH VALVS CHASE 107
LIFT STATION GRINDER PUMP		30 A	2	57	4800	4800						58	2	30 A		LIFT STATION GRINDER PUMP
	--	--	--	59			0	0	0			60	--	--	--	
IRRIGATION CONTROLLER		20 A	1	61	1200	0						62	1	20 A		SPARE
SPARE		20 A	1	63		0	0	0	0			64	1	20 A		SPARE
SPARE		20 A	1	65	0	0	0	0	0			66	1	20 A		SPARE
SPARE		20 A	1	67		0	0	0	0			68	1	20 A		SPARE
SPARE		20 A	1	69	0	0	0	0	0			70	1	20 A		SPARE
SPARE		20 A	1	71		0	0	0	0			72	1	20 A		SPARE
SPARE		20 A	1	73	0	0	0	0	0			74	1	20 A		SPARE
SPARE		20 A	1	75		0	0	0	0			76	1	20 A		SPARE
SPARE		20 A	1	77	0	0	0	0	0			78	1	20 A		SPARE
SPARE		20 A	1	79		0	0	0	0			80	1	20 A		SPARE
SPARE		20 A	1	81	0	0	0	0	0			82	1	20 A		SPARE
SPARE		20 A	1	83		0	0	0	0			84	1	20 A		SPARE
TOTAL LOAD:						47463 VA	52610 VA	0 VA								
TOTAL AMPS:						386 A	438 A	0 A								
LOAD CLASSIFICATION		CONNECTED	DEMAND		ESTIMATED		PANEL TOTALS									
RCPT		15480 VA	82.30%			12740 VA										
LITES		617 VA		125.00%		771 VA	CONNECTED LOAD: 100073 VA									
MTR		53040 VA		100.00%		53040 VA	ESTIMATED DEMAND: 98971 VA									
LIGHTS		2336 VA		125.00%		2920 VA	CONNECTED CURRENT: 417 A									
RCPT NON CONVENIENCE		2400 VA		100.00%		2400 VA	EST. DEMAND CURRENT: 455 A									
GENERAL NOTES:																
A. PROVIDE WITH INTEGRALLY MOUNTED TRANSIENT VOLTAGE SURGE SUPPRESSION.																
B. MAIN BREAKER SHALL BE IUL SERIES RATED TO BRANCH CIRCUIT PANELBOARD BREAKER/USES.																
C. PROVIDE MAIN BREAKER WITH 120-VOLT SHUNT TRIP																
D. LABEL AS PER NEC																
NOTES:																
1. PROVIDE GFCI BREAKER.																
2. PROVIDE WITH 120-VOLT SHUNT TRIP																

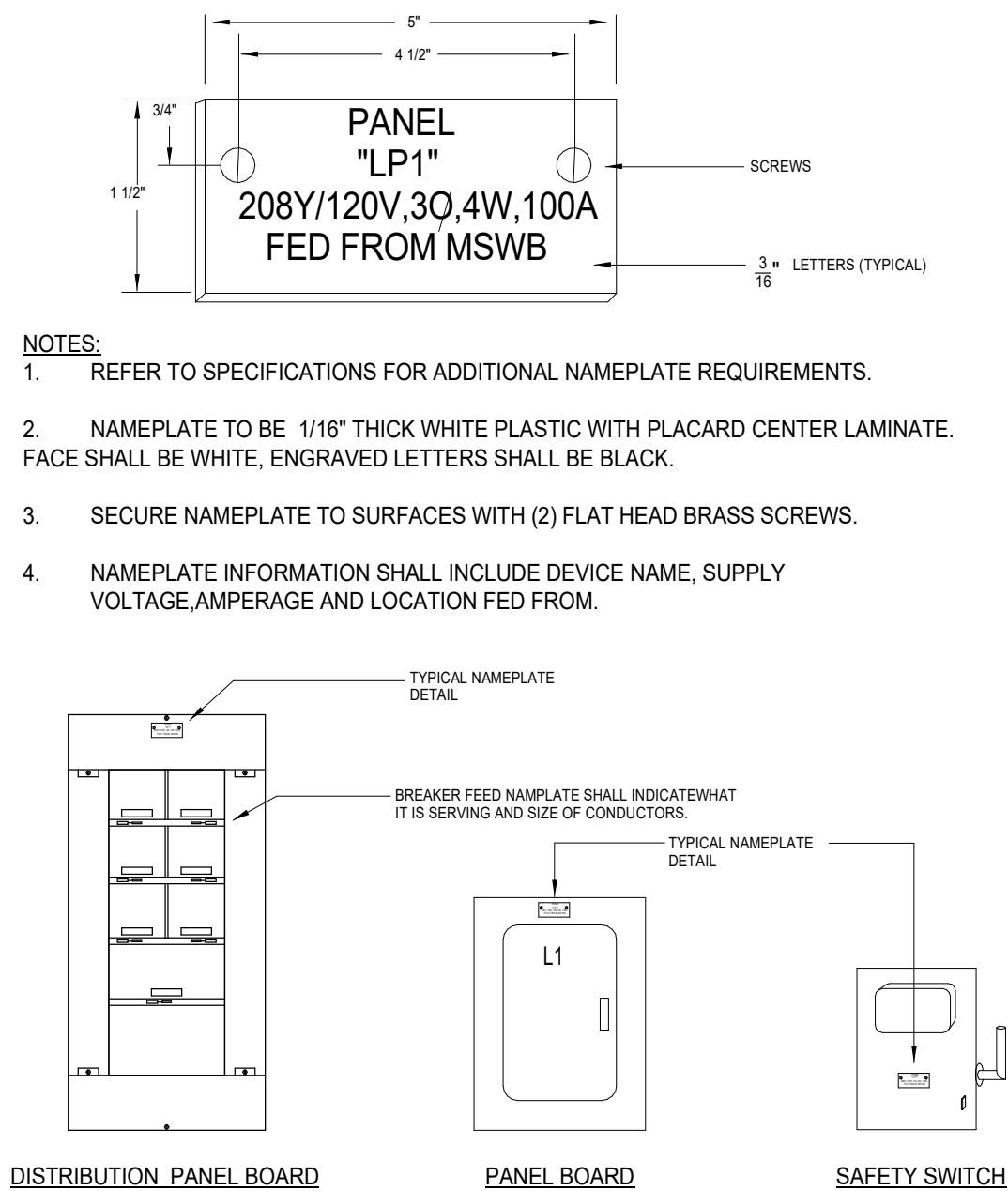


NOTES:
99% CONSTRUCTION DOCUMENT

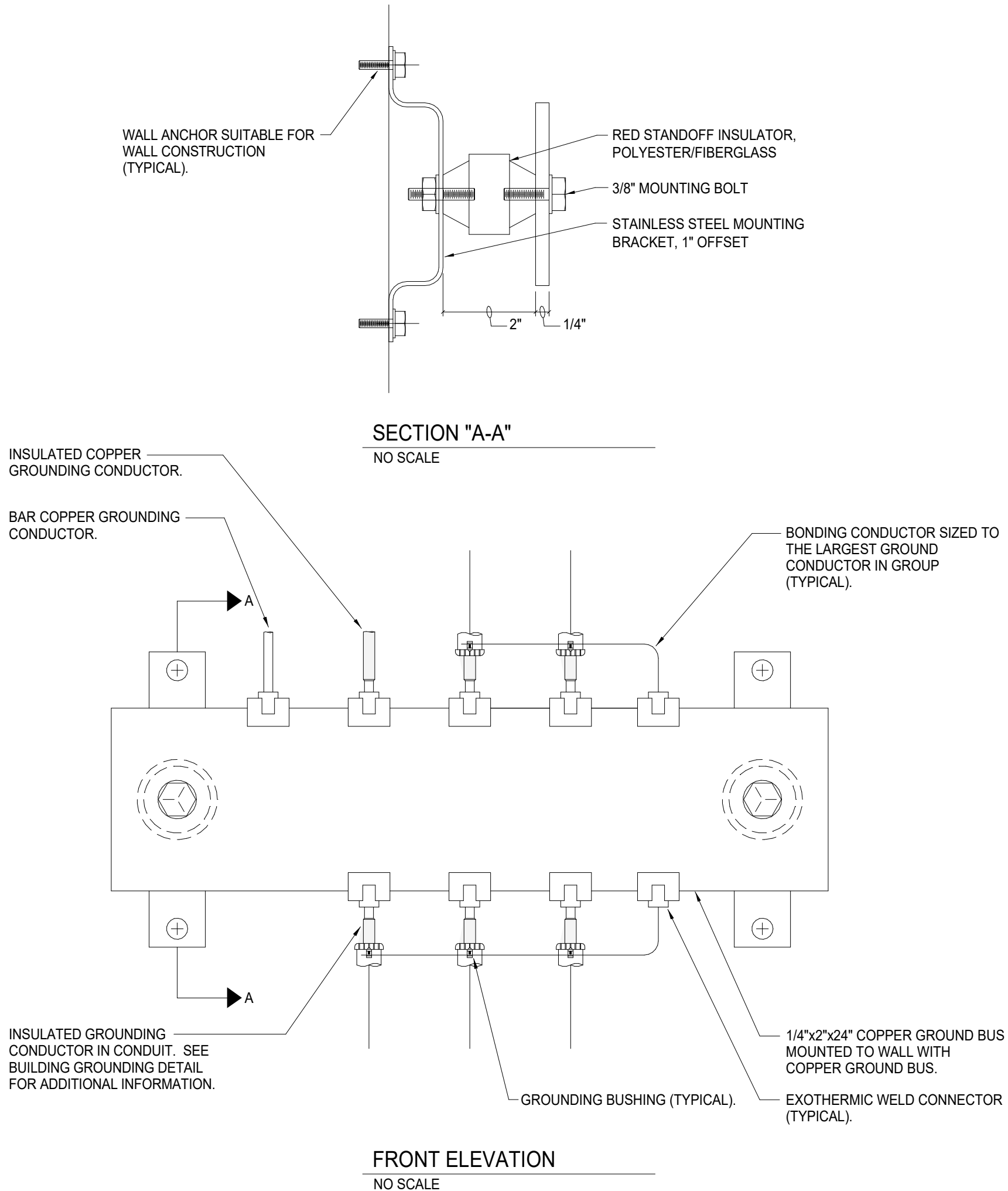
Not for Construction



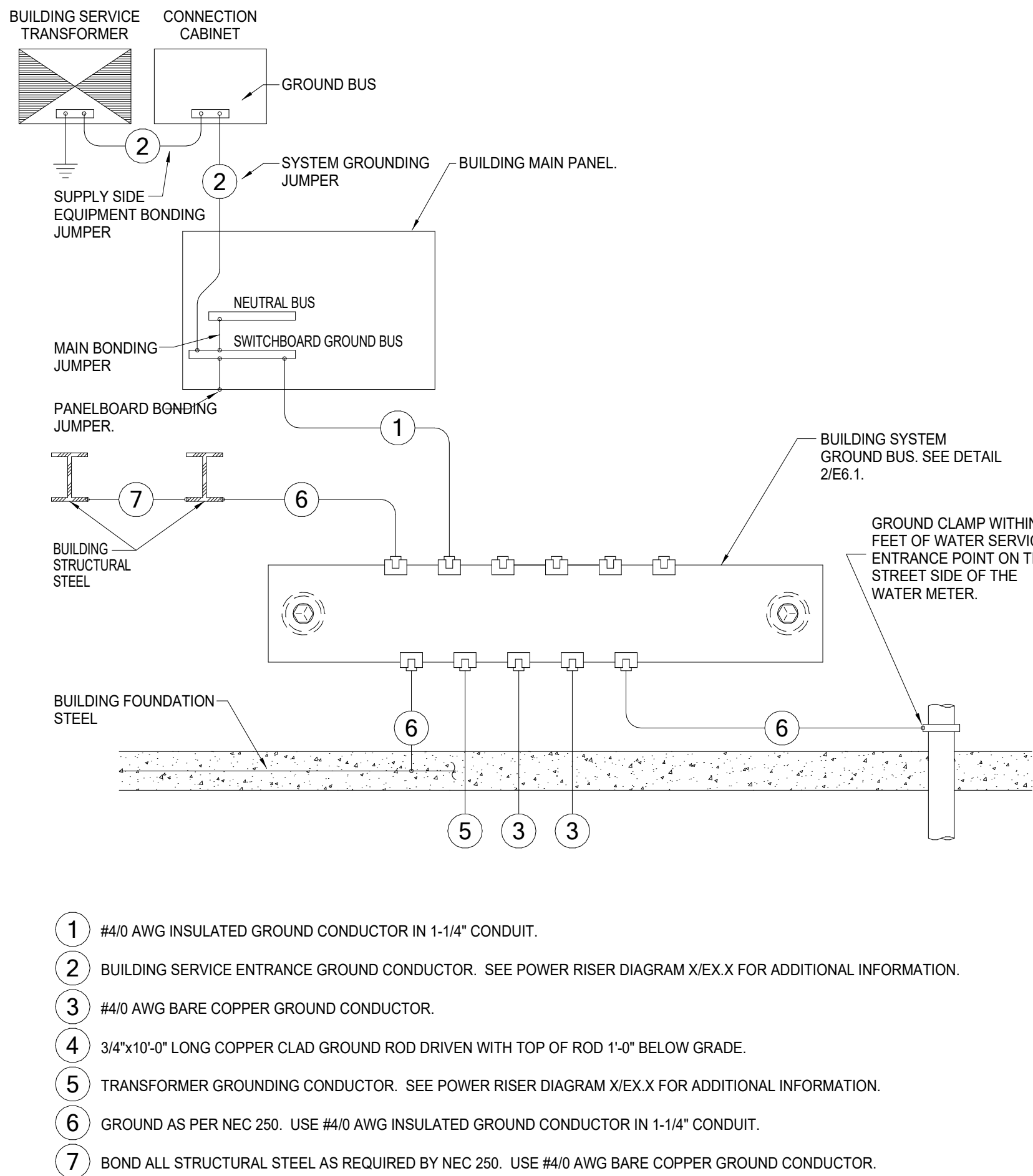
4 Typical Mounting Height Detail
NO SCALE



3 Typical Name Plate Detail
NO SCALE



2 Building Ground Bar Detail
NO SCALE



1 Building Grounding System Detail
NO SCALE

PROJECT NAME:
Moore Lake Park Building
City of Fridley
5872 NE CENTRAL AVE., FRIDLEY, MN

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Jay S. Hruby
40290 2/13/23
LICENSE # DATE

SHEET NAME:

DETAILS - ELECTRICAL

REVISIONS:		
No.	Date	Description

22-25 2/03/23
PROJECT NUMBER DATE
PC JSH
DRAWN BY CHECKED BY

SHEET NO:

E6.1