

i1 Warehouse
for:

ICOMSA, LLC 100%DRAWING SET

140 RAY WARD PL SANTA TERESA, NM 88008



CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. **The Contract Documents are complementary**, and what is required by one shall be as binding as if required by all; **performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.**

Because the contract documents are a collaborative effort sometimes involving the owner, architect and numerous consultants, there is no inherent order of precedence among those documents. For instance, a plan may show a door, a door schedule will designate the type of door and hardware, one specification section may specify the quality of door and another specification section will specify the quality of hardware. Collectively, those contract documents are used to describe that particular work item. Moreover, a pre-selected order of precedence assumes that one item is more important than another. For instance, assuming that the plans are chosen to prevail over the specifications, if the plans did not show the hinges on the door even though the specifications required them, the owner might get a hingeless door. Under these circumstances, a pre-selected order of precedence may cause an absurd result. The contractor is expected to make reasonable inferences from the contract documents. When the documents show wall partitions covered by drywall, for example, it may be inferred that some reasonable method will be used to attach the drywall to the underlying framework.

Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings **shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.**

The contractor is responsible for allocating portions of the work to the subcontractors and others, within the limits required by the contract documents, irrespective of the organization of the specifications.

Subcontractors shall not rely only in their division of specifications and drawings obtained from a plan room, **General Contractor and all Subcontractors shall obtain and review the entire set of Contract Documents prior bidding.**

LOCATION MAP



CONSULTANTS

CIVIL

SKYLINE ENGINEERS, INC

P.O. BOX 20 SANTA TERESA, N.M. 88008
FAX (575) 589.0477 P: (575) 589.8481
(915) 351.8033

STRUCTURAL

BENAVENTE STRUCTURAL
ENGINEERING CONSULTING, LLC

6006 N MESA STREET, SUITE 709,
EL PASO, TX. 79912
(915) 999.7178

LANDSCAPE

DESERT ELEMENTS LANDSCAPE
DESIGN, LLC

1 ARDOVINOS DR, SUNLAND PARK,
NM 88063
(915) 637.5444
DE-Carlos@elp.rr.com

MECHANICAL AND PLUMBING

ELUID SYSTEMS, INC

12244 RATHMORE DR
EL PASO, TX. 79928
(915) 856.9420

ELECTRICAL

ALPHA ENGINEERING, INC

1818 E. RIO GRANDE
EL PASO, TX. 79902
(915) 838.9900

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APPLICABLE CODES

2021 International Building Code
2018 International Energy Conservation Code
2021 Uniform Mechanical Code
2021 Uniform Plumbing Code
2021 International Existing Building Code
2017 Accessible and Usable Buildings and Facilities (ADA) Code
2020 National Electrical Code
2021 International Fire Code
All Current NM Codes

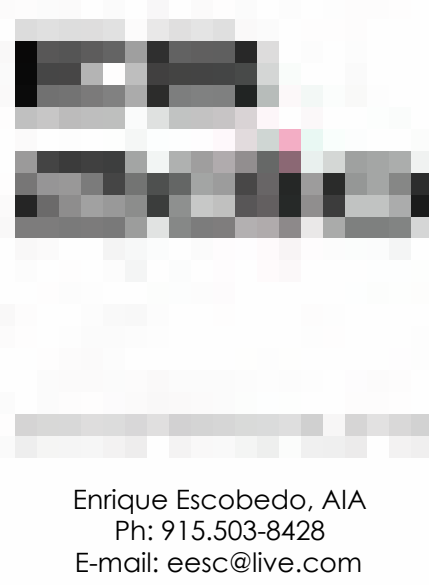
OWNER



CME
CONSTRUCTION MAINTENANCE ENGINEERING

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i1 Warehouse & Office

for:

ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008

Number	Date	Description
1	07/15/24	Revision 1

Architect Seal:

Progress Drawing Set
"Not for Regulatory
Approval, Permitting
or
Construction."

07/15/24

Date: 07/15/24

Revised: --

Project No. 2407

Drawn By: JSMS/EE

Checked By: EE

File Name:

Sheet Title:
COVER SHEET

Sheet No.

G1.0

ADDENDUM # 1

2021 IBC, GENERAL BUILDING DATA

PARCEL No. 4-016-167-518-527

ADDRESS: 140 RAY WARD PL SANTA TERESA, NM 88008

LEGAL DESCRIPTION: LOT 1 BLOCK 2 RAY WARD SUBDIVISION
FILED JULY 11 2003 IN BOOK 20 PAGES 371-372
DONA ANA COUNTY RECORDS
CITY OF SUNLAND PARK, NEW MEXICO

ZONING: C1 - NEIGHBORHOOD COMMERCIAL

ARCHITECT PHONE No. 915-503-8428

SCOPE TO WORK:

TOTAL # OF STRUCTURES PROPOSED: 1

OCCUPANCY CLASSIFICATION: "S-2" LOW-HAZARD WAREHOUSE

TOTAL CONSTRUCTION AREA:
1st. FLOOR = 17,602.30 S.F.
2nd. FLOOR = 1,875.00 S.F.
TOTAL AREA = 19,477.30 S.F.

OCCUPANT LOAD, IBC TABLE 1004.1.2:
1st. FLOOR: = 80 OCCUPANTS
2nd. FLOOR: = 44 OCCUPANTS
TOTAL OCCUPANCY LOAD: = 123 OCCUPANTS

CONSTRUCTION TYPE: V-B (SPRINKLERED)

FLOOD ZONE VERIFIED: YES
(DEVELOPMENT DIVISION, 541-4970)

INCHES OF EGRESS REQUIRED: --

FOOD SERVICE: NO

ALLOWABLE AREA: 40,500.00 SQ.FT.

ALLOWABLE BUILDING HEIGHT: 60' H. - 3 STORIES

REQUIRED FIRE RATING WALLS DESIGNATED: NO

SPRINKLERED STRUCTURE: YES

PARKING REQUIRED: 20 PARKING SPACES PROVIDED

DISTANCE FROM BUILDING TO THE NEAREST TWO FIRE HYDRANTS: (AS A VEHICLE WOULD TRAVEL)
1. FIRE HYDRANT ALONG RAYWARD.....100 FT.
2. FIRE HYDRANT ALONG RAYWARD..... 500 FT.

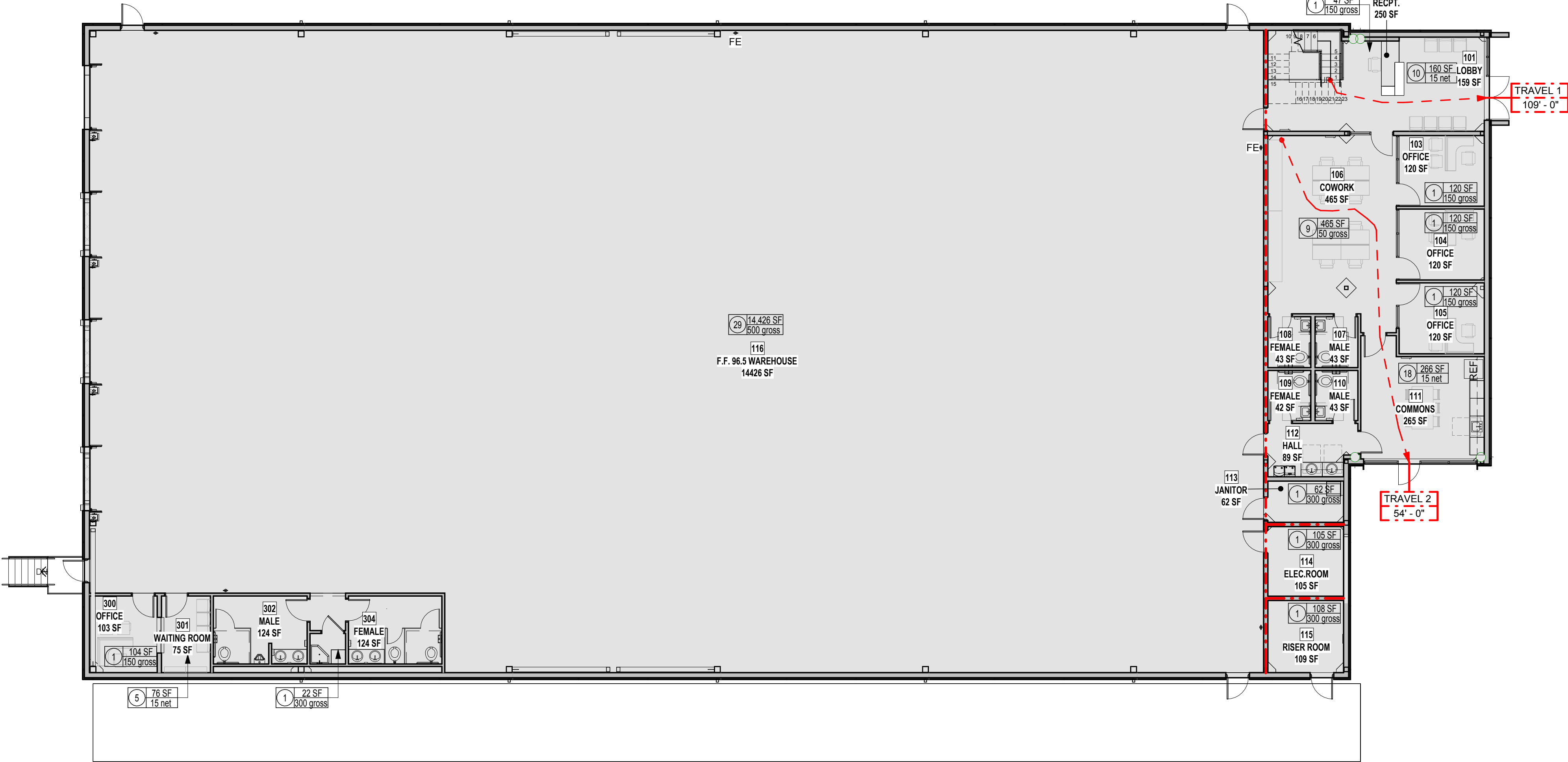
FIRE ALARM: YES

STANDPIPE: NO

STRUCTURAL DESIGN VERIFIED: YES

PLUMBING FIXTURES

PLUMBING FIXTURES REQUIRED
BUSINESS AREA (PROFESSIONAL OFFICE) 95 OCCUPANTS / 2 = 48 MALE & 48 FEMALE
WATER CLOSETS: 1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50
MALE: 48/25 = 2 WC REQUIRED
FEMALE: 48/25 = 2 WC REQUIRED
WATER CLOSETS PROVIDED: 3 MALE & 3 FEMALE
LAVATORIES: 1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80
MALE: 48/40 = 2 LAV. REQUIRED
FEMALE: 48/40 = 2 LAV. REQUIRED
LAVATORIES PROVIDED: 3 MALE & 3 FEMALE
STORAGE AREA 29 OCCUPANTS / 2 = 15 MALE & 15 FEMALE
WATER CLOSETS: 1 per 100
MALE: 15/100 = 1 WC REQUIRED
FEMALE: 15/100 = 1 WC REQUIRED
WATER CLOSETS PROVIDED: 2 MALE & 2 FEMALE
LAVATORIES: 1 per 100
MALE: 15/100 = 1 WC REQUIRED
FEMALE: 15/100 = 1 WC REQUIRED
LAVATORIES PROVIDED: 2 MALE & 2 FEMALE
DRINKING FOUNTAINS: (80 OCCUPANTS) / (1 DF/ 100 OCCUPANTS) = 0.8 ≈ 1 DF REQUIRED
DRINKING FOUNTAINS PROVIDED: 2 ELECTRIC WATER COOLER (HI & LO).
SERVICE SINKS: 2 SERVICE SINK (TOTAL)



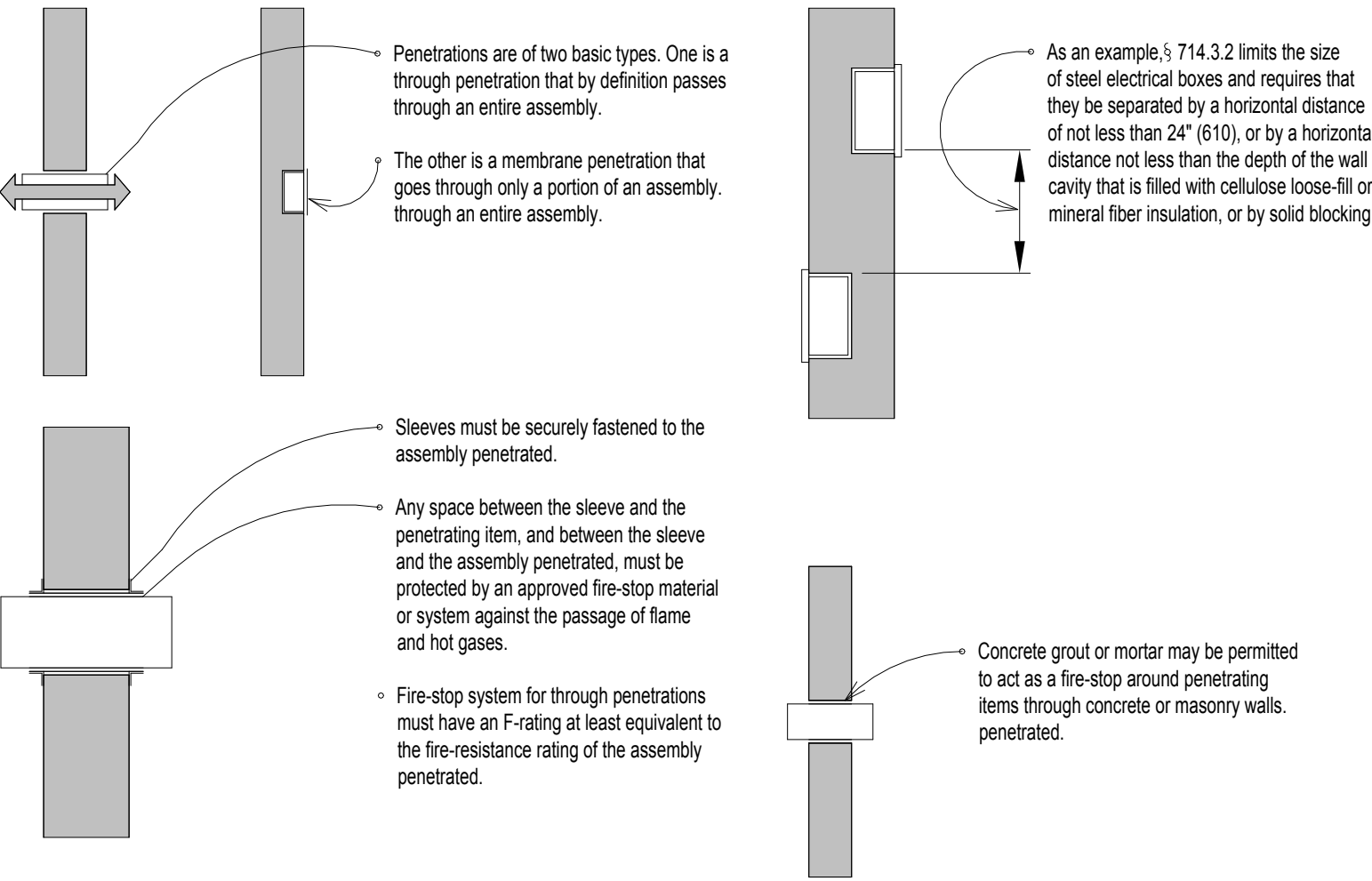
1 LIFE SAFETY SITE PLAN

SCALE: 3/32" = 1'-0"

Preparation
§ 714 requires that penetrations be protected to maintain the fire-resistive integrity of the assembly being penetrated.

The governing criteria for penetration protection systems are that they prevent the passage of flame and hot gases into or through the assembly. Penetration treatment requirements are based on the size and quantity or penetrations. The requirements for through-penetration fire stops call for tested assemblies meeting minimum criteria for resistance to the passage of flame and hot gases. The basic criteria are that the required fire-resistance of the penetrated assembly not be compromised or reduced. Certain limited penetrations by small pipes or electrical components of specified sizes are allowed by exceptions.

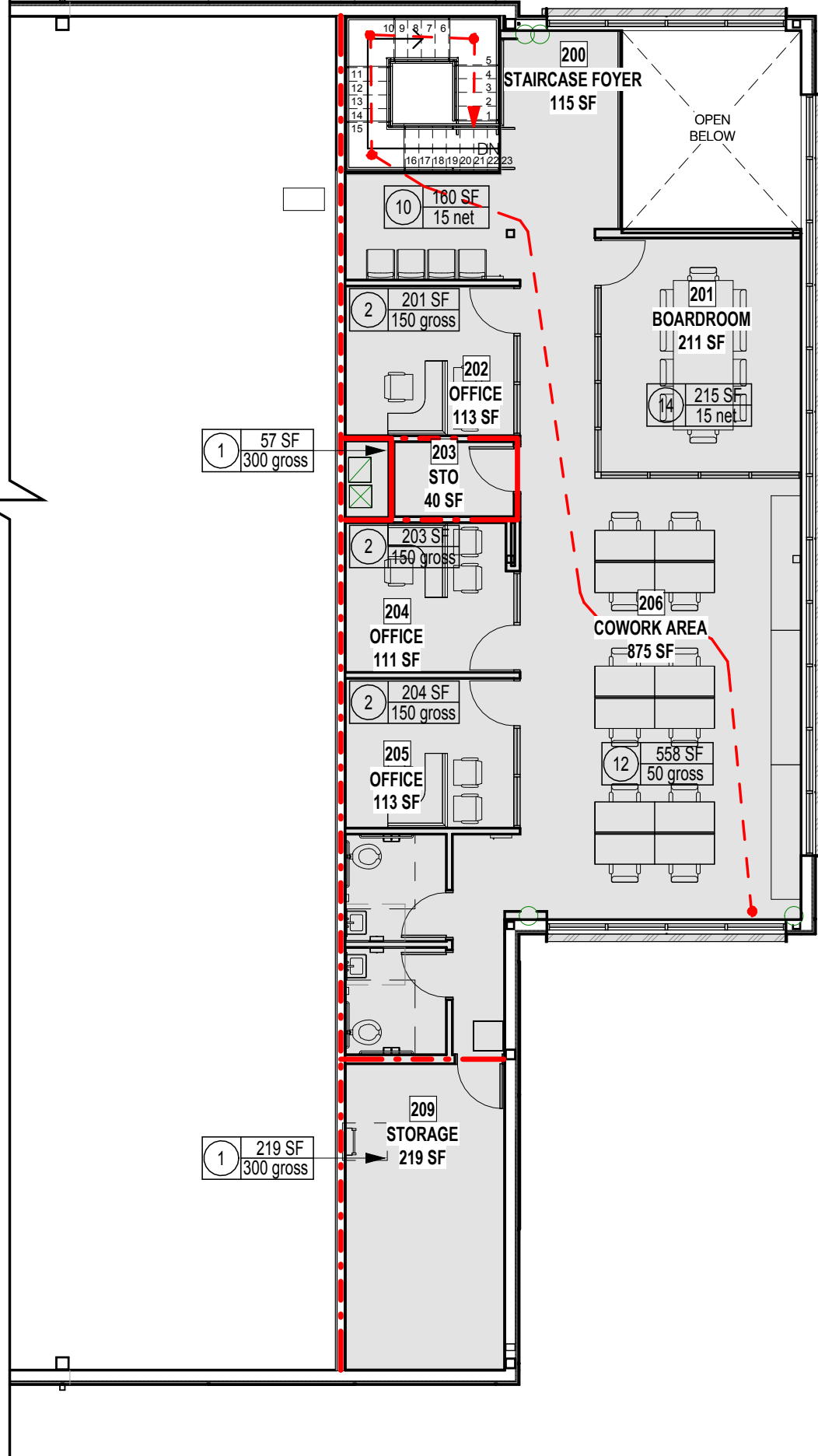
Penetration firestop systems are given "F" and "T" ratings. An F-rating is related to the time period that a through-penetration firestop system limits the movement of fire through a rated assembly. This rating should be nominally equal to the rating of the building assembly where the penetration is located. A T-rating applies to any penetration, not just through penetrations, and measures how long it takes to raise the temperature of an assembly by 325°F (163°C) on the opposite side of the assembly from a fire of specified size. Since the 2012 edition, the IBC also addresses "L" ratings (air leakage) for penetrations of smoke barriers.



LEGEND

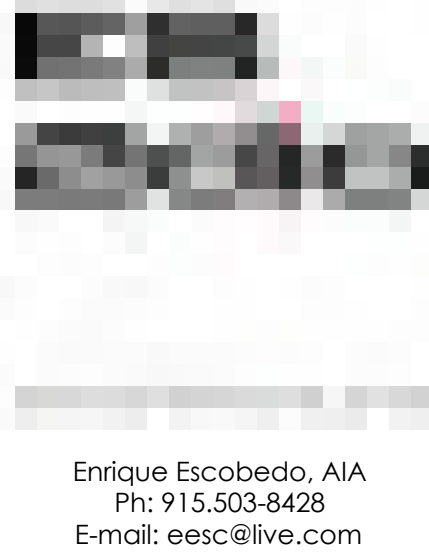
- 1 HOUR RATED WALL
- EXIT DOOR: MINIMUM CLEAR WIDTH
 - 1 = 36"
 - 2 = 60"
 - 3 = 42"
 - 4 = 92"
- F.E.C. FIRE EXTINGUISHER LOCATION

NOTES:
1. WALLS DENOTED AS RATED WALLS MUST EXTEND TO BOTTOM OF ROOF DECK. - PROVIDE FIRE SEALANT/CAULKING AT ALL PENETRATIONS.
2. SEE SITE PLAN FOR FIRE HYDRANT LOCATIONS.



2 AREA PLAN - 2ND FLOOR

SCALE: 1" = 10'-0"



i1 Warehouse & Office

for:

ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008

Number	Date	Description

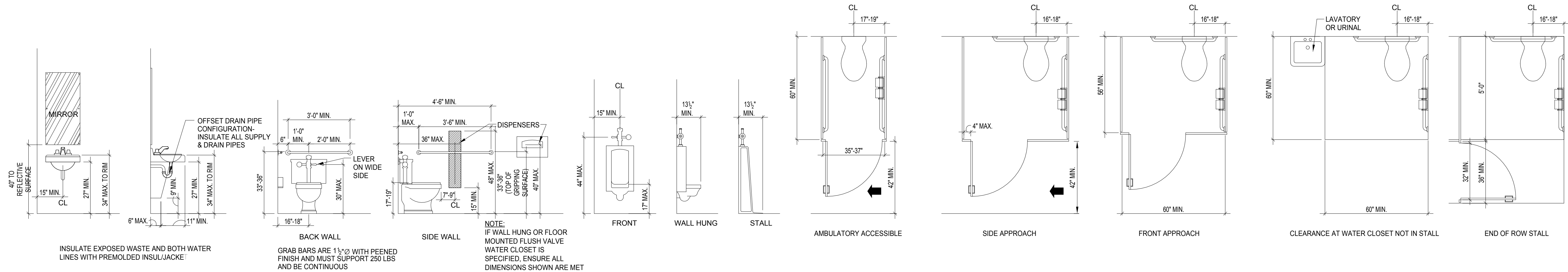
Architect Seal:

Progress Drawing Set
"Not for Regulatory
Approval, Permitting
or
Construction."

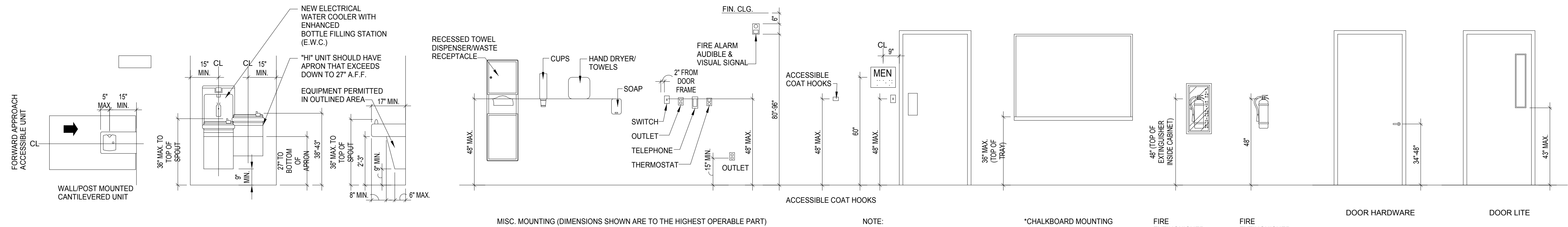
07/15/24

Date:	07/15/24
Revised:	--
Project No.	2407
Drawn By:	JSM/SEE
Checked By:	EE
File Name:	
Sheet Title:	AREA AND LIFE SAFETY PLAN
Sheet No.	

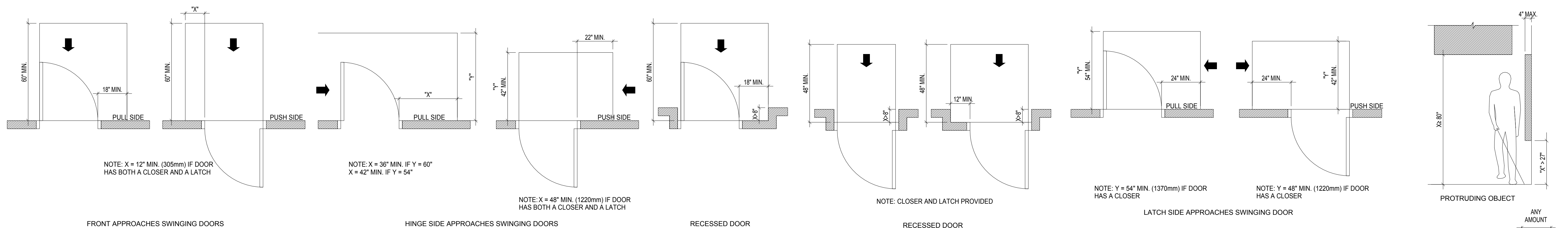
G1.1



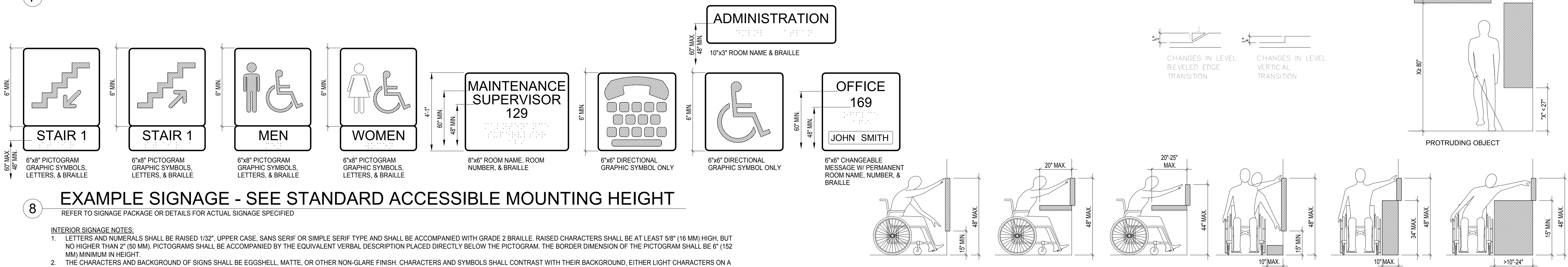
1 LAVATORY 2 TYPICAL WATER CLOSETS 3 URINALS 4 TYPICAL TOILET STALLS



5 EWC/DRINKING FOUNTAINS 6 STANDARD ACCESSIBLE MOUNTING HEIGHTS



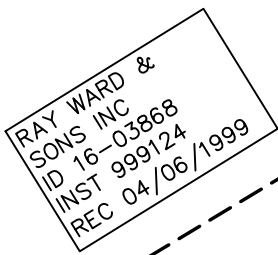
7 TYPICAL DOOR CLEARANCES



8 EXAMPLE SIGNAGE - SEE STANDARD ACCESSIBLE MOUNTING HEIGHT

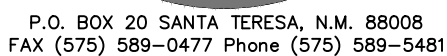
- INTERIOR SIGNAGE NOTES:
- LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" (16 MM) HIGH, BUT NO HIGHER THAN 2" (50 MM). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" (152 MM) MINIMUM IN HEIGHT.
 - THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
 - WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" (1525 MM) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" (76 MM) OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

9 PROTRUDING OBJECT PROTECTION/REACH RANGES



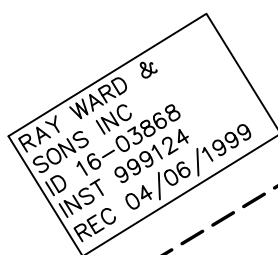
 = WATER METER
 = FIRE HYDRANT
 = POWER POLE
PROPERTY LINE
 LOT LINE
 EASEMENT LINE
 WIRE FENCE LINE
 CHAIN LINK FENCE
 OVERHEAD ELECTRIC
 ONE
 8" WATER MAIN
 8-W 8-W
 SEWER MAIN
 SEW

- 1.) THE PHYSICAL ADDRESS OF THE PROPERTY IS 140 RAY WARD PLACE.
- 2.) ZONING: CI (COMMERCIAL).
- 3.) ALL UTILITY LINES ARE APPROXIMATE LOCATION ONLY.
- 4.) PLAT IS IN NM STATE PLANE CENTRAL ZONE US SURVEY FOOT GRID DISTANCE, NAD 83.



LOT 1 BLOCK 2
RAY WARD SUBDIVISION
FILED JULY 11 2003 IN BOOK 20 PAGES 371-372
DOÑA ANA COUNTY RECORDS
CITY OF SUNLAND PARK, NEW MEXICO

REFERENCES



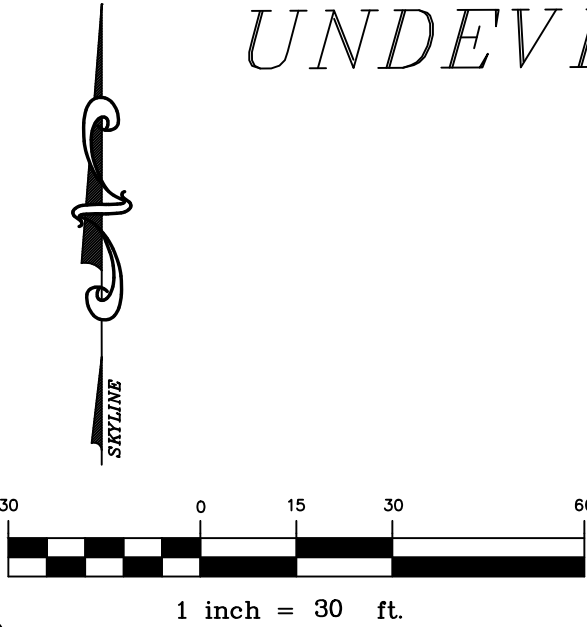
 = WATER METER
 = FIRE HYDRANT
 = POWER POLE
PROPERTY LINE
LOT LINE
EASEMENT LINE
WIRE FENCE LINE
 
CHAIN LINK FENCE
 
OVERHEAD ELECTRIC
 OHE
8" WATER MAIN
 8-W 8-W
SEWER MAIN

- 1.) THE PHYSICAL ADDRESS OF THE PROPERTY IS 124 RAY WARD PLACE.
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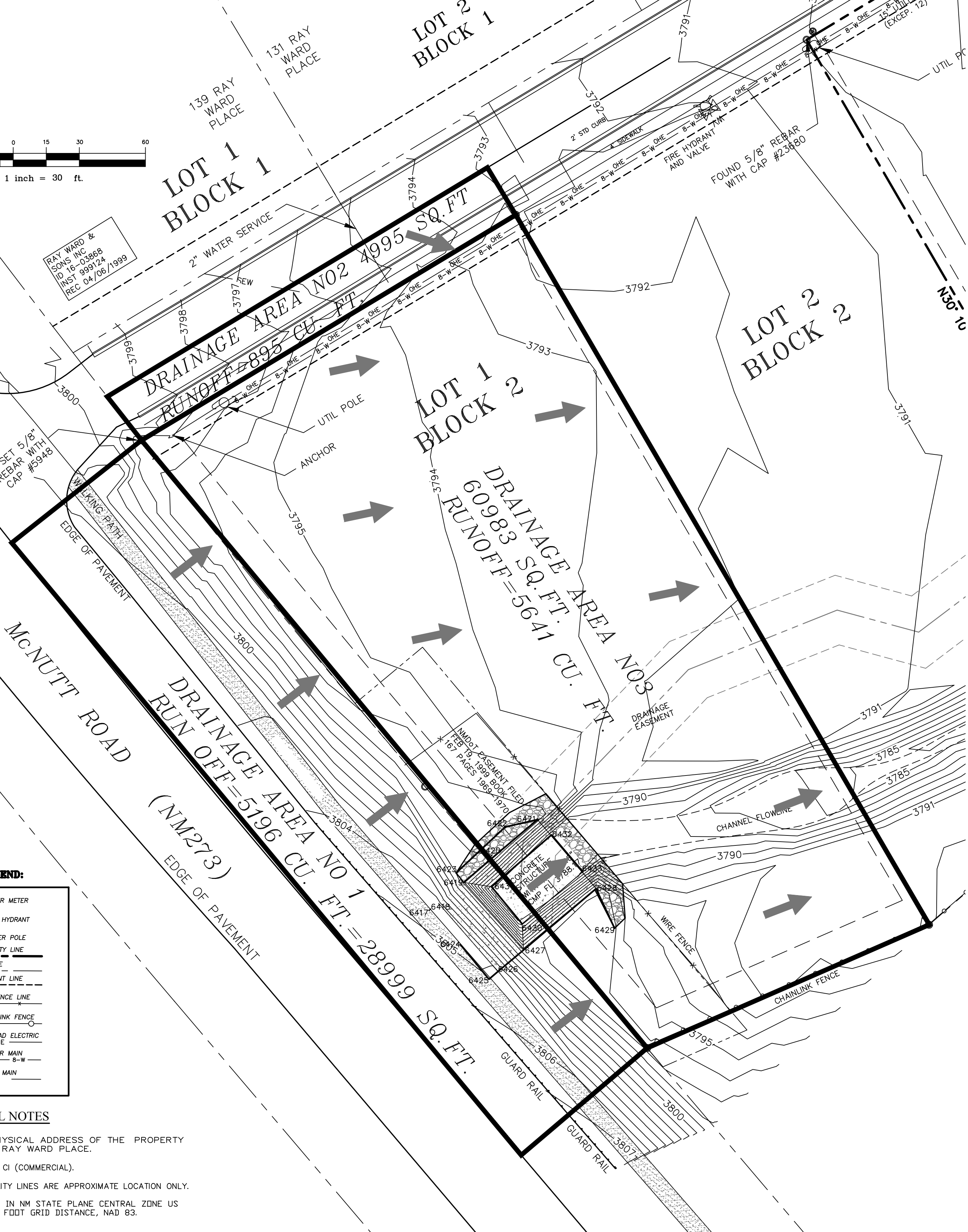
LOT 1 BLOCK 2
RAY WARD SUBDIVISION
FILED JULY 11 2003 IN BOOK 20 PAGES 371-372
DOÑA ANA COUNTY RECORDS
CITY OF SUNLAND PARK, NEW MEXICO

REFERENCES

EXHIBIT NO, 1.
UNDEVELOPED DRAINAGE AREAS



RAY WARD &
SONS INC
ID 16-03868
INST 993124
REC 04/06/1999



LEGEND:

- = WATER METER
- = FIRE HYDRANT
- = POWER POLE
- = PROPERTY LINE
- = LOT LINE
- = EASEMENT LINE
- = WIRE FENCE LINE
- = CHAIN LINK FENCE
- = OVERHEAD ELECTRIC
- = 8" WATER MAIN
- = SEWER MAIN

GENERAL NOTES

- 1.) THE PHYSICAL ADDRESS OF THE PROPERTY IS 140 RAY WARD PLACE.
- 2.) ZONING: CI (COMMERCIAL).
- 3.) ALL UTILITY LINES ARE APPROXIMATE LOCATION ONLY.
- 4.) PLAT IS IN NM STATE PLANE CENTRAL ZONE US SURVEY FOOT GRID DISTANCE, NAD 83.

P R O J E C T N A M E

EXISTING DRAINAGE

LOT 1 BLOCK 2
RAY WARD SUBDIVISION
FILED JULY 11 2003 IN BOOK 20 PAGES 371-372
DOÑA ANA COUNTY RECORDS
CITY OF SUNLAND PARK, NEW MEXICO

SCALE: 1" = 30'
JOB NO.: 1140-001
FIELD BK.: GPS
PAGE(S): GPS
SURVEY BY: MD/IC
DRAWN BY: TA/JR
CHECKED BY: RK
DATE: 07/15/2024

REFERENCES

UNDEVELOPED
DRAINAGE

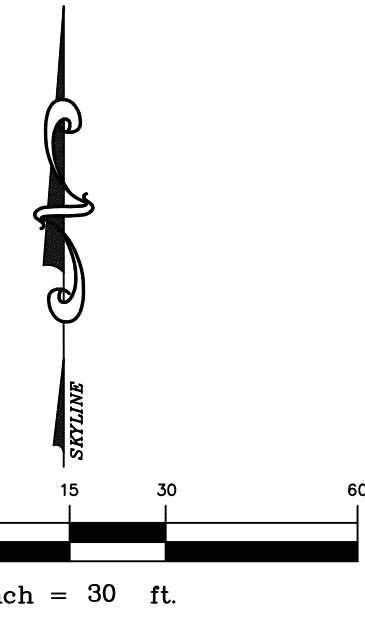
SHEET TITLE



P.O. BOX 20 SANTA TERESA, N.M. 88008
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Sht. 4 of 8

EXHIBIT NO. 2
DEVELOPED DRAINAGE AREAS



RAY WARD &
SONS INC
ID 16-03668
INST 999124
REC 04/06/1999

SET 5/8"
REBAR WITH
CAP #5948

McNUTT ROAD
EDGE OF PAVEMENT

LEGEND:

- ⊙ = WATER METER
- ⊗ = FIRE HYDRANT
- ⊕ = POWER POLE
- = PROPERTY LINE
- = LOT LINE
- = EASEMENT LINE
- = WIRE FENCE LINE
- = CHAIN LINK FENCE
- = OVERHEAD ELECTRIC OHE
- 8" WATER MAIN 8-W
- SEWER MAIN SEW

GENERAL NOTES

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FAX (575) 589-0477 Phone (575) 589-5481

P R O J E C T N A M E

DEVELOPED DRAINAGE

LOT 1 BLOCK 2
RAY WARD SUBDIVISION
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CITY OF SUNLAND PARK, NEW MEXICO

SCALE: 1" = 30'
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REFERENCES

DRAINAGE AREA NO 2
4790 SQ.FT.
858 CU. FT.

DRAINAGE AREA NO 3
18005 SQ.FT.
RUNOFF = 5431 CU.FT.

DRAINAGE AREA NO 4
15567 SQ.FT.
RUNOFF = 1679 CU.FT.

AREA NO 6
11848 SQ.FT.
RUNOFF = 3574 CU.FT.

AREA NO 7
13723 SQ.FT.
RUNOFF = 1269 CU.FT.

139 RAY WARD PLACE

131 RAY WARD PLACE

LOT 2 BLOCK 1

RAY WARD PLACE

LOT 2 BLOCK 2

N58° 57' 32"E
8-W OHE
15' UTILITY EASEMENT
(EXCEPT 12)

N30° 10'

UTIL PO

FOUND 5/8" REBAR WITH CAP #23680

FIRE HYDRANT AND VALVE

2' STD CURB

4' SIDEWALK

SEW

SEW

2" WATER SERVICE

UTIL POLE

ANCHOR

WALKING PATH

GUARD RAIL

GUARD RAIL

EXHIBIT NO. 3
CALCULATED PEAK RUN-OFF

SOIL IDENTIFICATION

The soil in this area corresponds to the (B M) Blue Point loamy sand, 1 to 5 percent slopes. Hydraulic Group A, depth 12-60 in., permeability 6-20 in. /hr., surfaces run-off is slow, water erosion hazard is high and the soil blowing hazard is high.

LISTED BELOW ARE SOME OF THE PHYSICAL AND CHEMICAL PROPERTIES IF THE SOIL.

USDA TEXTURE CLASSIFICATION - LOAMY SAND
UNITED CLASSIFICATION - SM
RANGE OF PERMIABILITY -12-60 IN./HR.
SOIL REACTION (PH) -7.9-9.0
SHRINK - SWELL POTENTIAL -LOW
HYDROLGIC GROUP - A

UNDEVELOPED HYDRAULIC DESIGN DATA

- DESIGN FREQUENCY = 100 YEARS
- SOIL SERIES = A
- HYDRAULIC COVER = NATURAL
- 100 YEAR-24 HOUR STORM = 3.84 IN.
- NATURAL CONDITION CURVE NO. = 68
- PAVED ROAD AND R.O.W. CURVE NO. = 83
- DIRECT RUN-OFF - 100 YEAR STORM
CN - 68 = 1.11 IN.
CN - 83 = 2.15 IN.

UNDEVELOPED RUN-OFF CALCULATIONS
SEE EXHIBIT NO. 1

NATURAL = AREA NO. 3 = 60983 (1.11) /12= 5641 FT.³

MC NUTT ROAD = AREA NO. 1 = (28,999)(2.15)/12= 5916 FT.³

RAY WARD PLACE = AREA NO. 2 = 4995 (2.15) /12= 895 FT³

TOTAL UNDEVELOPED RUNOFF WITH 100 YEAR STORM = 11,732 FT.³

DEVELOPED CONDITION HYDRAULIC DESIGN DATA

- DESIGN FREQUENCY = 100 YEAR
- SOIL SERIES (EXISTING) = A
- 100 YEAR 24 HR. STORM = 3.84 IN.
- NATURAL CONDITION CURVE NO. = 68
- IMPERVIOUS AREA CURVE NO. = 98
- PAVED ROAD AND R.O.W. CURVE NO. = 83
- DIRECT RUNOFF FROM 100 YEAR STORM
C - 98 - Q = 3.62 IN.
C - 68 - Q = 1.11 IN.
C - 83 - Q = 2.15 IN

DEVELOPED RUNOFF CALCULATIONS
(SEE EXHIBIT NO. 2)

DRAINAGE AREA NO. 1 = 28,999 (2.15)/12=5195 FT.³
DRAINAGE AREA NO. 2 = 4,790 (2.15)/12 = 858 FT.³
DRAINAGE AREA NO, 3= 7,050 (3.62)/12 = 2,127 FT³
DRAINAGE AREA NO, 4= 18,005 (3.62)/12 = 5,431 FT³
DRAINAGE AREA NO, 5 = 5,567 (3.62)/12 = 1,679 FT³
DRAINAGE AREA NO, 6 =11,848 (3.62)/12 = 3,574 FT³
DRAINAGE AREA NO, 7 =13,723 (1.11)/12 = 1,269 FT³

TOTAL DEVELOP RUNOFF WITH 100 YEAR STORM = 20,134 FT.³

PONDING REQUIRED

DEVELOPED RUN-OFF = 20,134 FT.³
LESS EXISTING RUNOFF = 11,723 FT.³
EXCESS RUNOFF = 8,410 FT.³

PLUS 25% FREEBOARD = 2,102 FT.³

TOTAL PONDING REQUIRED = 10,512 FT.³

DEVELOPED PONDNG - (SEE EXHIBIT 3)

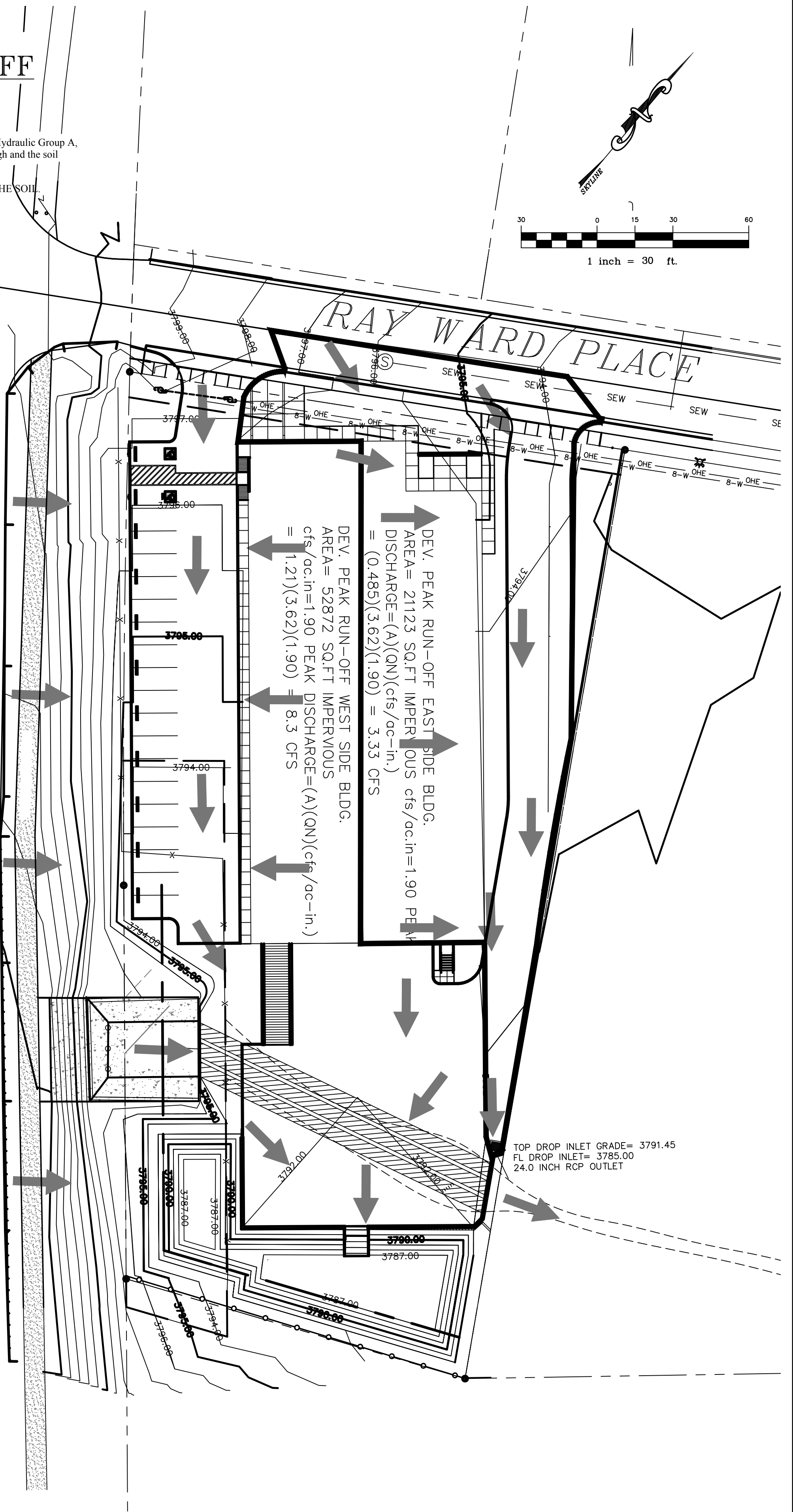
ELEVATION	AREA FT. ²	VOLUME FT. ³
3791.0	4,651.6	4,280
3790.0	3908.5	3,553
3789.0	3197.0	2,857
3788.0	2,517.2	2,183
3787.0	1,426.2	
3787.0	+ 423.0	
	=1,849.2	

DESIGN POND TOTAL VOLUME = 12,873 CUBIC FEET

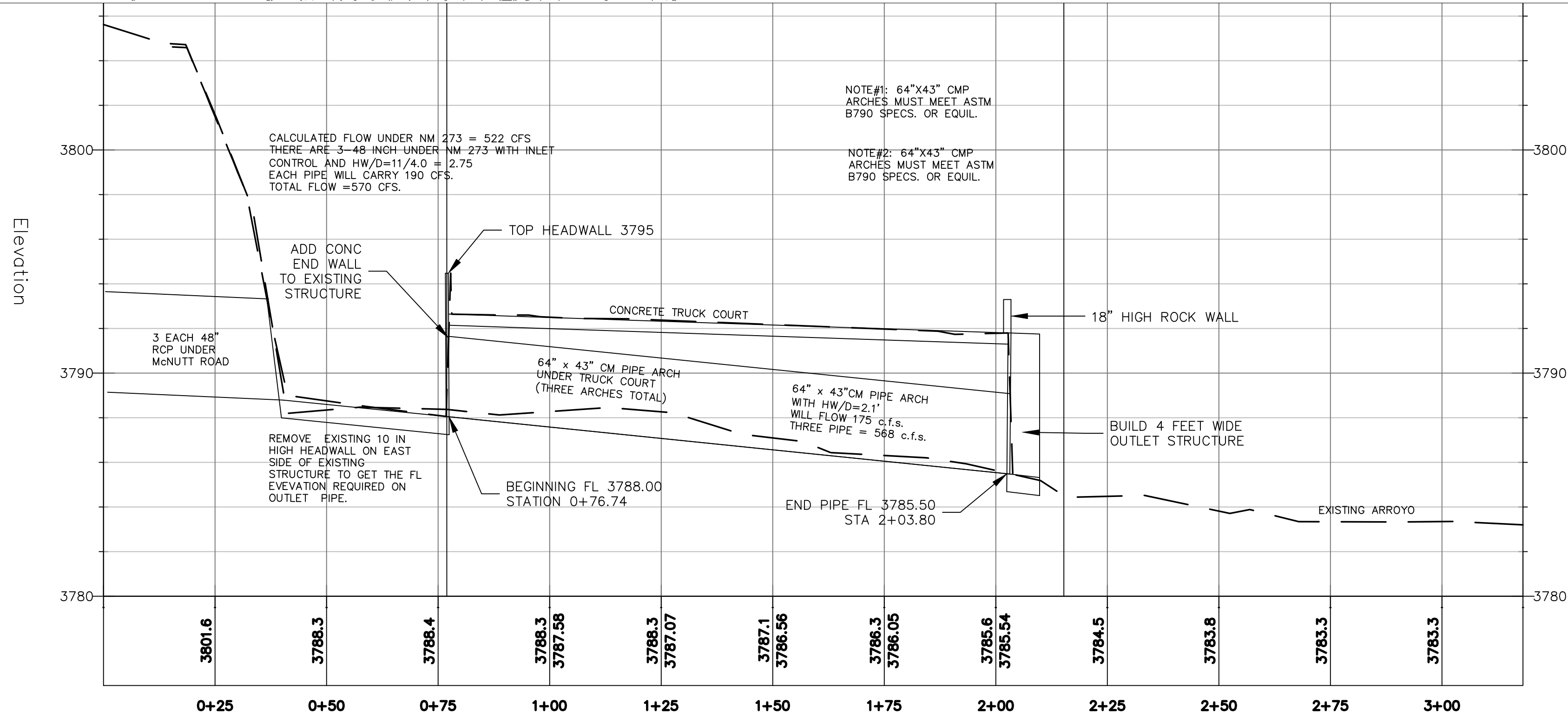
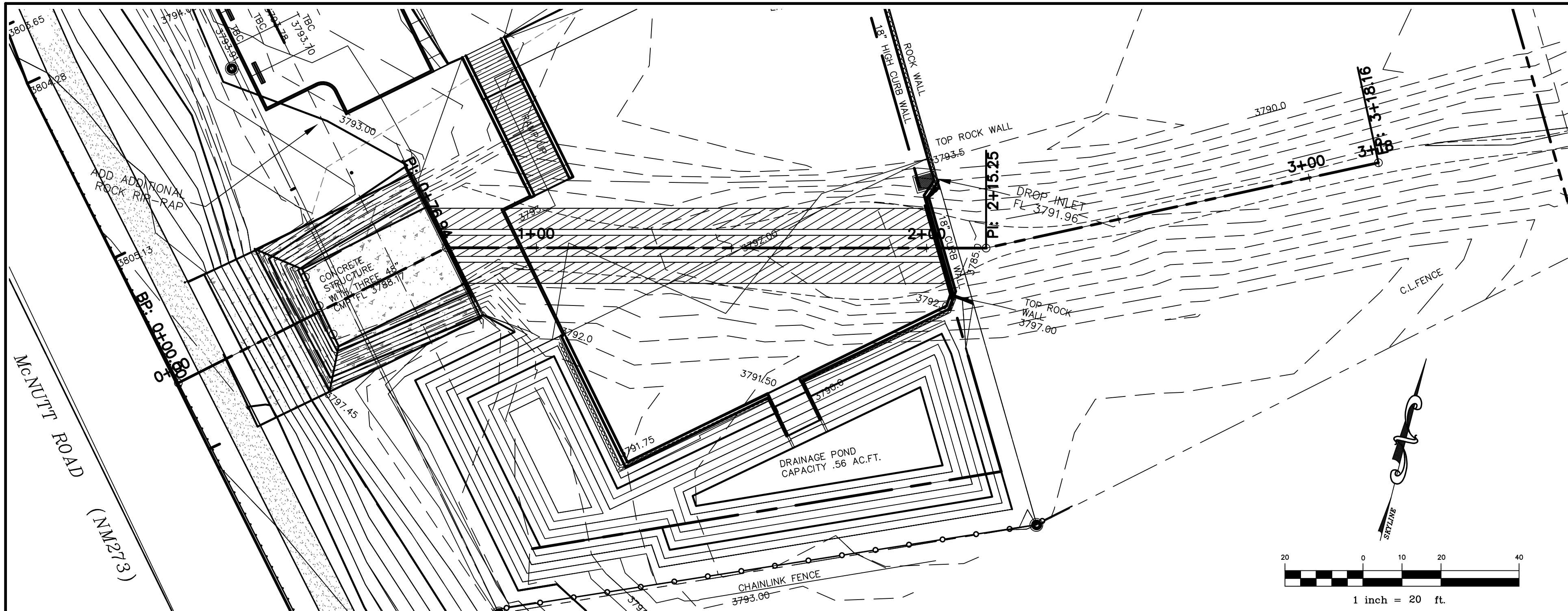
CALCULATED PEAK RUN-OFF (SEE EXHIBIT 3)

- EAST SIDE OF BUILDING
AREA = 21,123 SQ. FT.
IMPERVIOUS - CN = 98
DIRECT RUN-OFF = 3.62 INCHES
Q = 21,123 (3.62)/12 = 6,372 CUBIC FEET
TC = 10 MIN OR >
CFS / AC-IN = 1.90
PEAK DISCHARGE = (A)(Qn)(cfs)(ac-in)
= (0.485)(3.62)(1.9)
3.33 c.f.s.
- WEST SIDE OF BUILDING
AREA = 52,872 SQ. FT.
IMPERVIOUS - CN = 98
DIRECT RUN-OFF = 3.62 INCHES
Q = 52,872 (3.62)/12 = 15,950 CUBIC FEET
TC = 10 MIN OR >
CFS / AC-IN = 1.90
PEAK DISCHARGE = (A)(Qn)(cfs)(ac-in)
= (1.21)(3.62)(1.9)
8.3 c.f.s.

MCNUTT ROAD (NM273)



Sht. 6 of 8	CALCULATIONS PEAK FLOWS	SHEET TITLE	 P.O. BOX 20 SANTA TERESA, N.M. 88008 FAX (575) 589-0477 Phone (575) 589-5481	P R O J E C T N A M E			SCALE: 1" = 30'	REFERENCES
				DRAINAGE PLAN			JOB NO.: 1140-001	
				LOT 1 BLOCK 2			FIELD BK.: GPS	
				RAY WARD SUBDIVISION			PAGE(S): GPS	
				FILED JULY 11 2003 IN BOOK 20 PAGES 371-372			SURVEY BY: MD/IC	
				DOÑA ANA COUNTY RECORDS			DRAWN BY: TA/JR	
				CITY OF SUNLAND PARK, NEW MEXICO			CHECKED BY: RK	
							DATE: 07/15/2024	



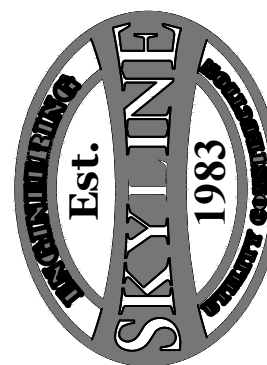
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SCALE:	1" = 20'
JOB NO.:	1140-001
FIELD BK.:	GPS
PAGE(S):	GPS
SURVEY BY:	RB/MD
DRAWN BY:	TA/JR
CHECKED BY:	RK
DATE:	07/15/2024

P R O J E C T N A M E

PIPE SECTION

LOT 1 BLOCK 2
RAY WARD SUBDIVISION
FILED JULY 11 2003 IN BOOK 20 PAGES 371-372
DONA ANA COUNTY RECORDS
CITY OF SUNLAND PARK, NEW MEXICO

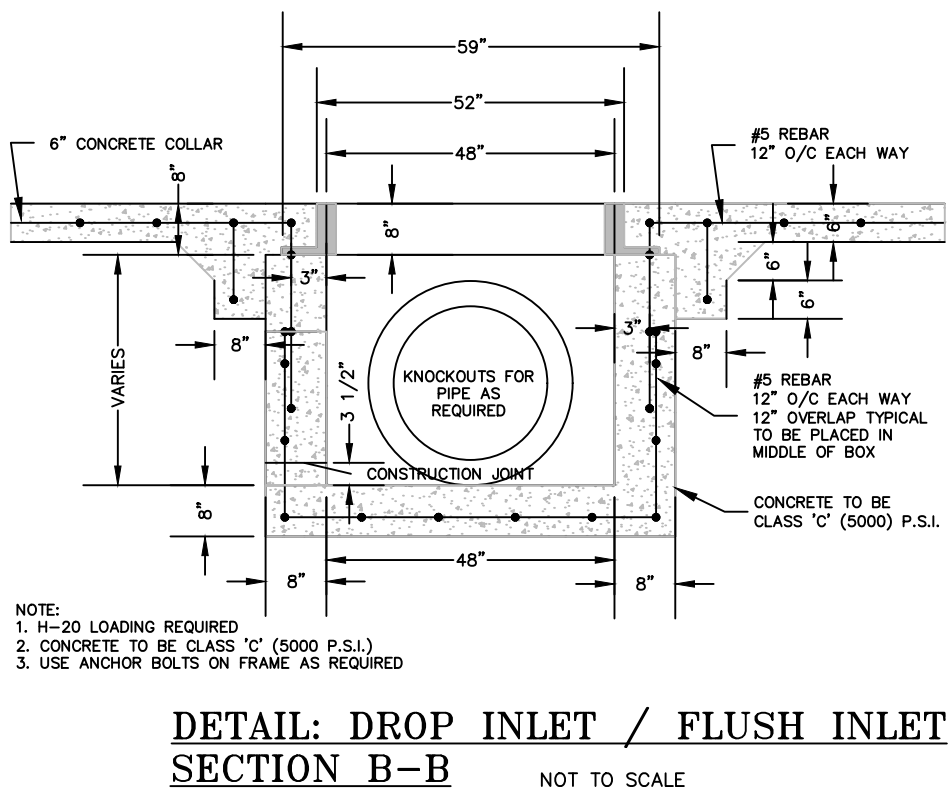
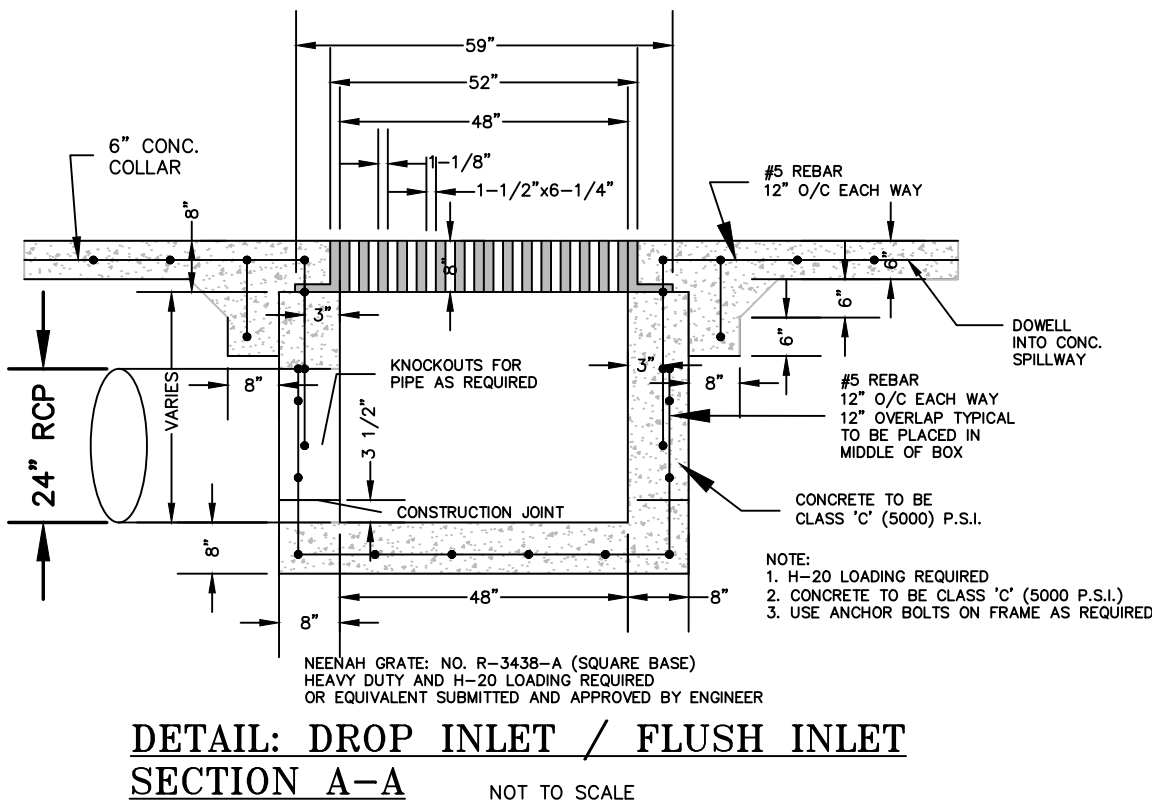
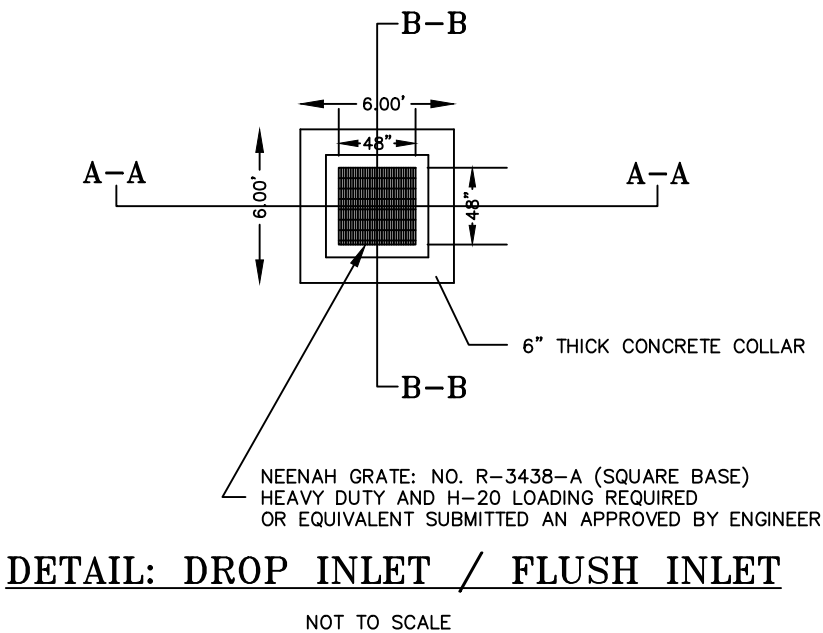
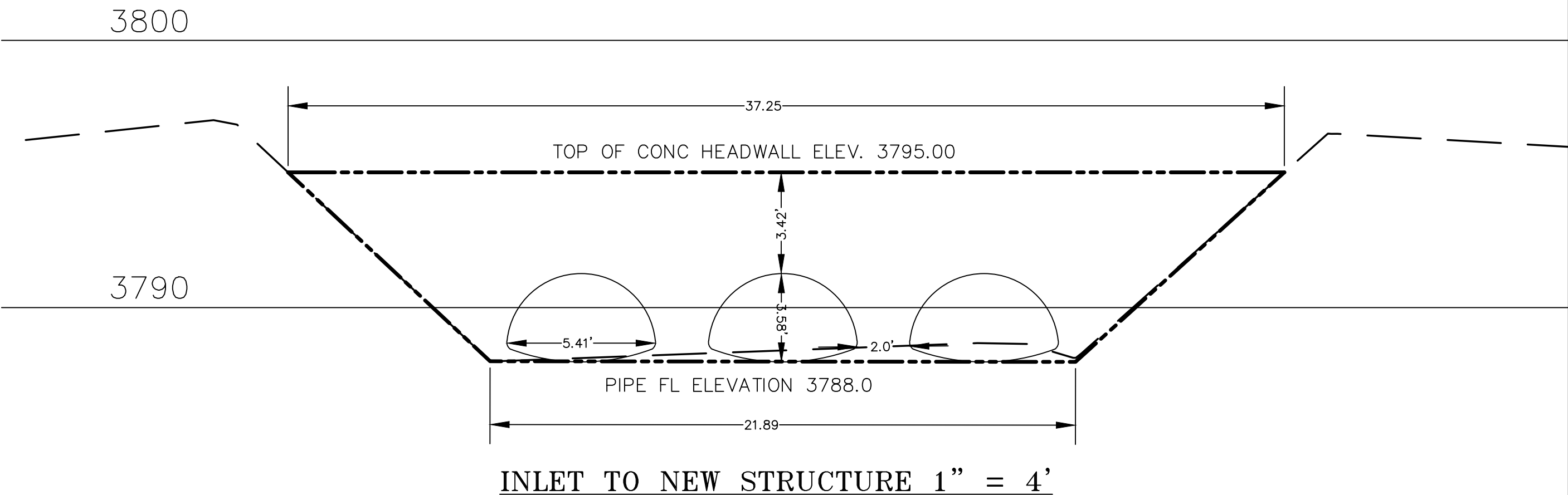


P.O. BOX 20 SANTA TERESA, N.M. 88008
FAX (505) 589-0477 Phone (505) 589-5461

SHEET TITLE

PIPE SECTION

Sht. 7 Of 8



Sht. 8 of 8	DETAILS	SHEET TITLE	 P.O. BOX 20 SANTA TERESA, N.M. 88008 FAX (575) 589-0477 Phone (575) 589-5481	P R O J E C T N A M E		SCALE: NONE	REFERENCES
				DETAILS LOT 1 BLOCK 2 RAY WARD SUBDIVISION FILED JULY 11 2003 IN BOOK 20 PAGES 371-372 DOÑA ANA COUNTY RECORDS CITY OF SUNLAND PARK, NEW MEXICO		JOB NO.: 1140-001 FIELD BK.: GPS PAGE(S): GPS SURVEY BY: RB/MD DRAWN BY: TA/JR CHECKED BY: RK DATE: 07/15/2024	



i1 WAREHOUSE & OFFICE

for:

ICOMSA, LLC

140 RAY WARD PLACE, SANTA TERESA, N.M. 88008

Number	Date	Description

Architect Seal:

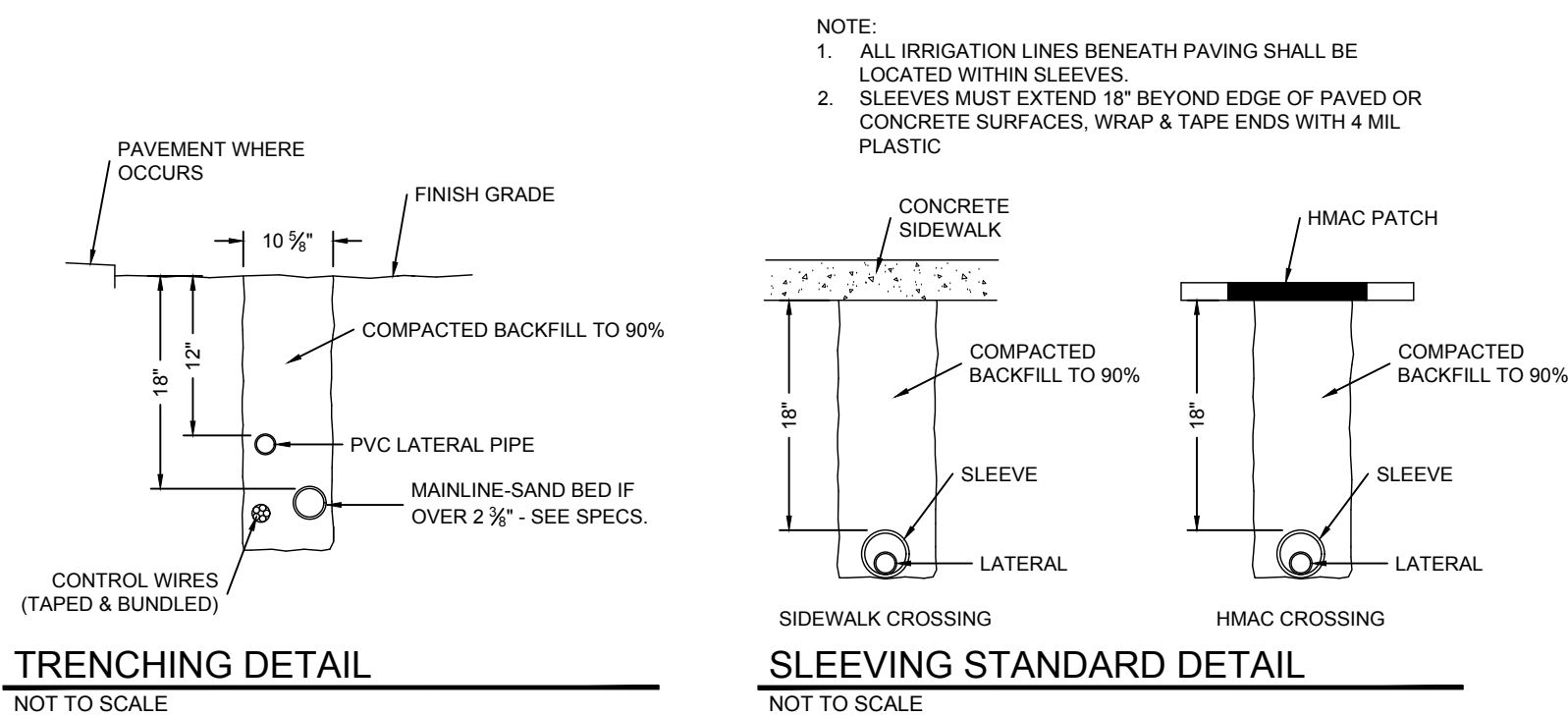
Date:	07/15/2024
Revised:	--
Project No.	2407
Drawn By:	SA & CH
Checked By:	CH
File Name:	
Sheet Title:	

IRRIGATION PLAN

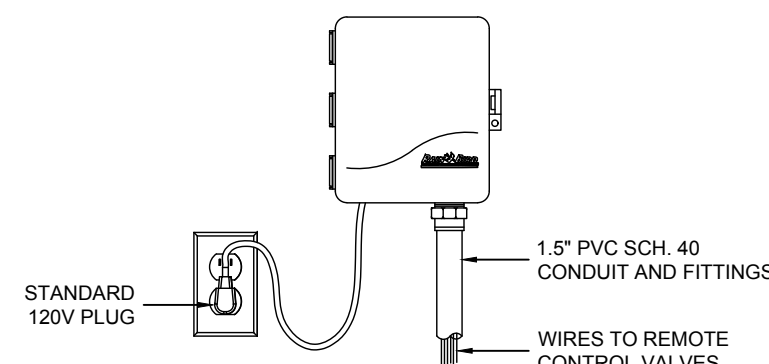
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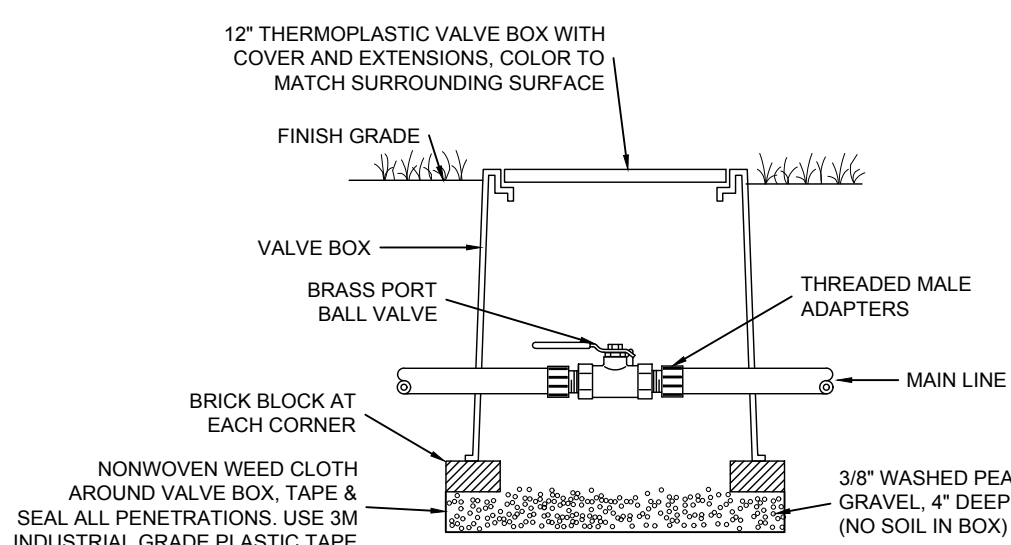
McNUTT ROAD



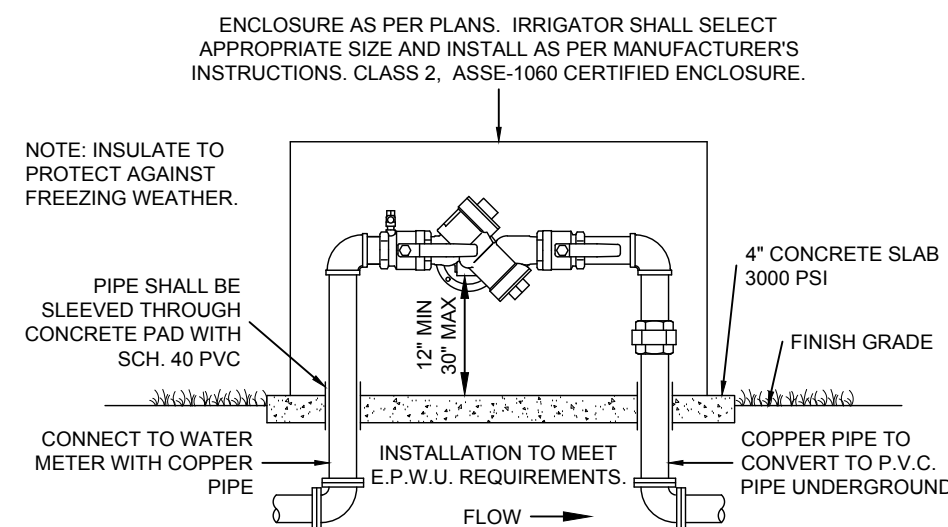
NOTE: 24V ELECTRIC CONTROL WIRE (#14G) AND COMMON GROUND WIRE (#12G) SHALL BE DIRECT BURIAL. COLOR CODED AND ALL SPLICES & CONNECTIONS SHALL BE WATERPROOFED FROM CONTROLLER TO VALE.



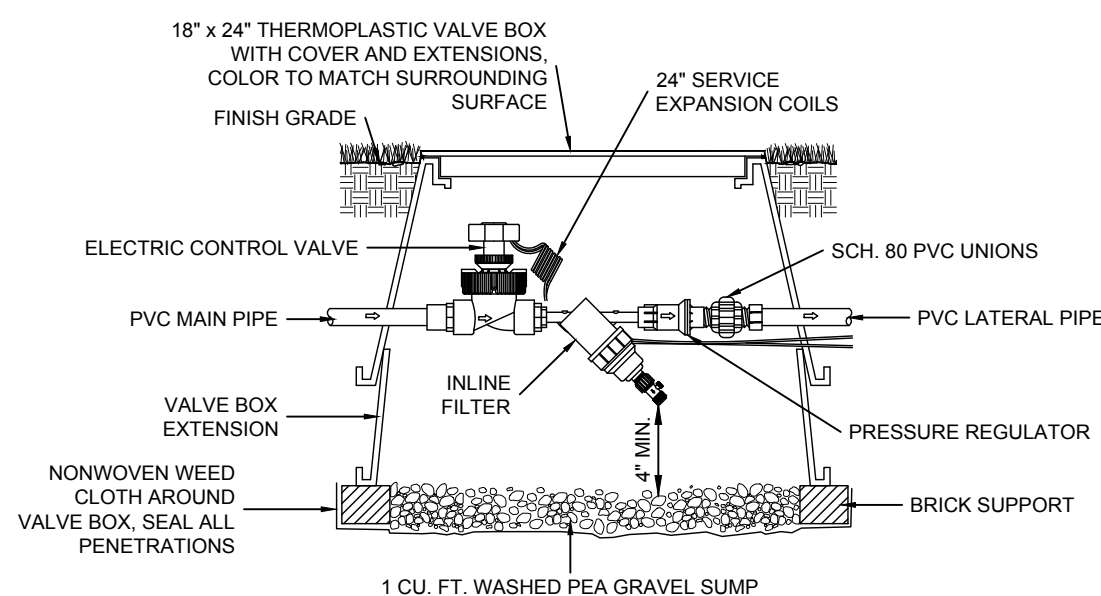
RAINBIRD ESP CONTROLLER DETAIL
NOT TO SCALE



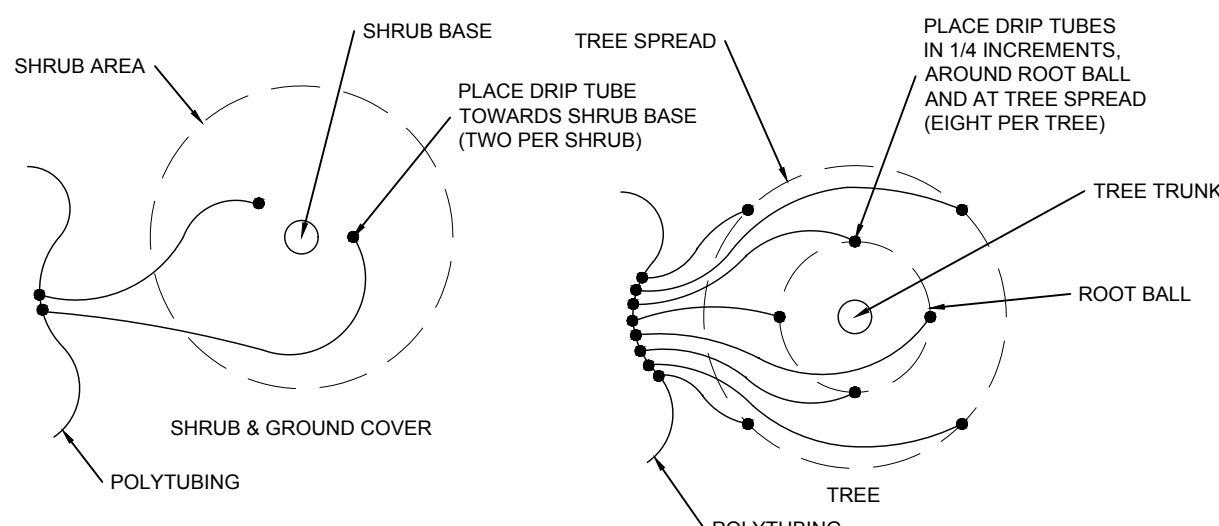
ISOLATION VALVE DETAIL
NOT TO SCALE



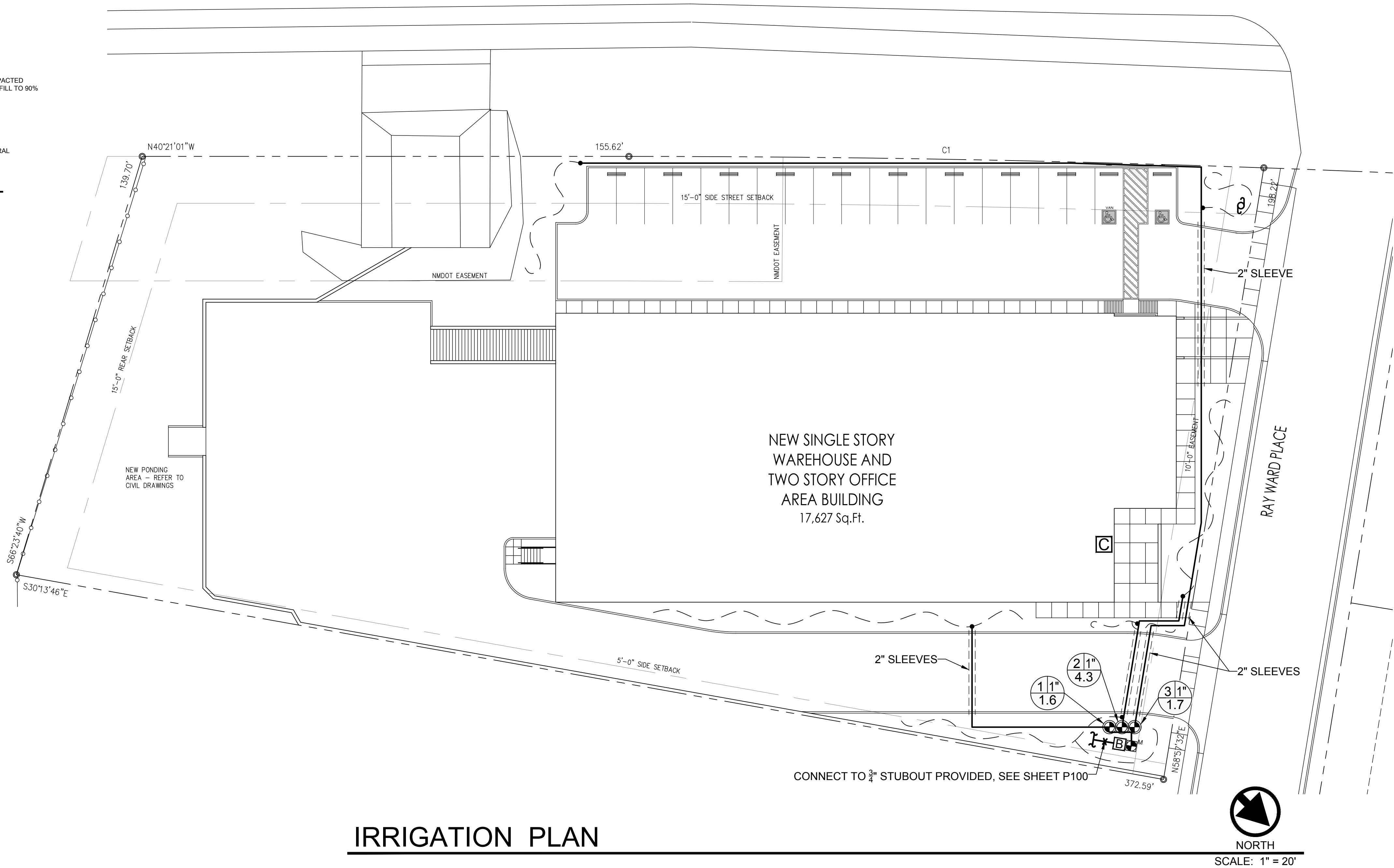
RPA FEBCO Mo.825Y DETAIL
NOT TO SCALE



REMOTE CONTROL VALVE, PRESSURE REGULATOR & FILTER
NOT TO SCALE



DRIP EMITTER PATTERN DETAIL
NOT TO SCALE



IRRIGATION PLAN

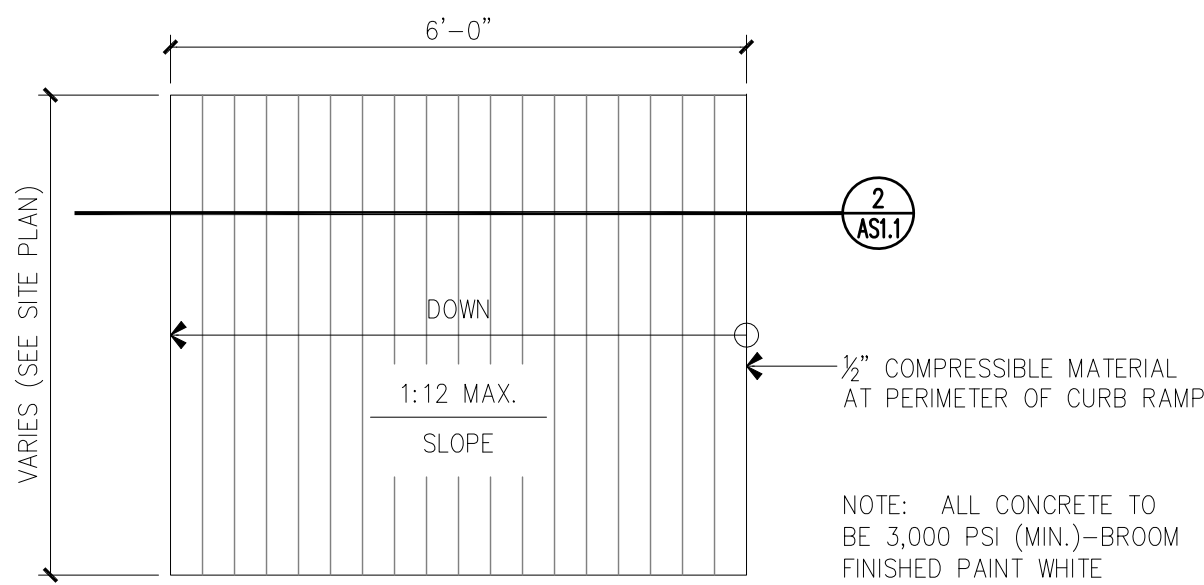
IRRIGATION LEGEND

SYMBOL	ITEM
	1" FEBCO 825Y RP BACKFLOW PREVENTER W/ ALUM. HOTBOX ENCLOSURE - CLASS 2, ASSE #1060.
	RAINBIRD ESP-ME, 4 STATION CONTROLLER COORDINATE LOCATION WITH OWNER & ELECTRICAL CONTRACTOR
	1" MASTER REMOTE CONTROL VALVE, RAINBIRD 100-PESB
	1" REMOTE CONTROL VALVE, RAINBIRD 100-PESB INSTALL RAINBIRD Y FILTER & PRESSURE REDUCER (30 PSI) AFTER THE VALVE ON ALL DRIP ZONES
	1" MAINLINE - CLASS 200 PVC
	LATERAL LINE - CLASS 200 PVC - 1" UNLESS OTHERWISE INDICATED
	PVC SLEEVE - 2 SIZES LARGER THAN LATERAL OR MAIN
	DRIP LINE 3/4" POLY RAINBIRD XB-10PC DRIP EMITTERS - 2 PER SHRUB & GROUND COVER RAINBIRD XB-20PC DRIP EMITTERS - 8 PER TREE
	A) STATION NUMBER
	B) SIZE OF VALVE IN INCHES
	C) TOTAL GPM

IRRIGATION NOTES

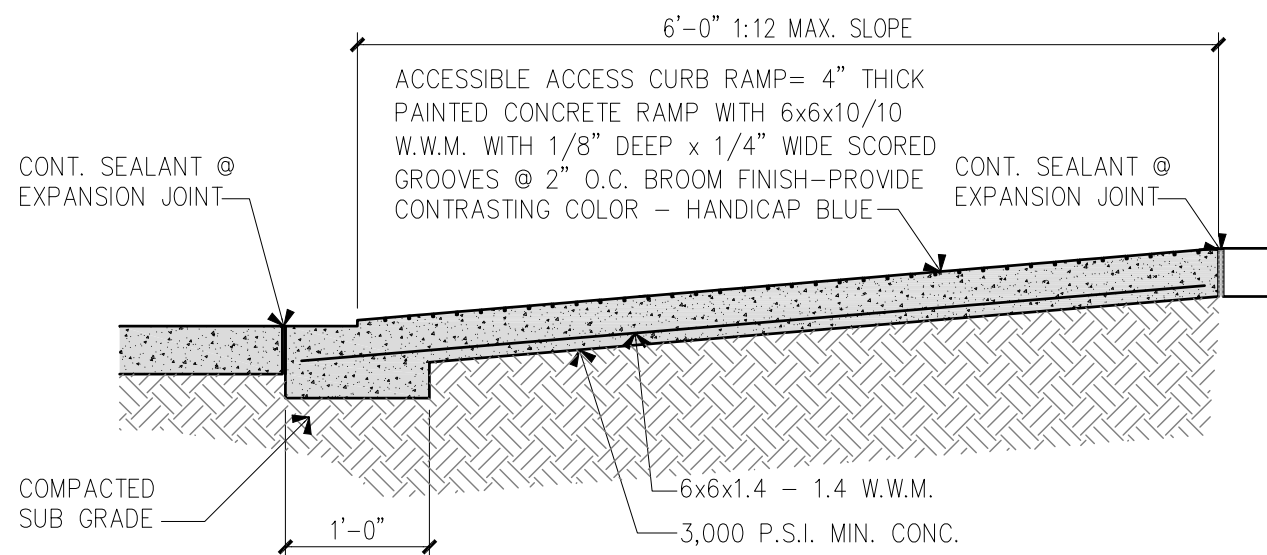
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- IRRIGATION SHALL BE INSTALLED ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS. SHOULD CHANGES BE IMPLEMENTED IN THE FIELD, A NEW SET OF PLANS IS REQUIRED TO BE SUBMITTED TO SUNLAND PARK. LANDSCAPE DESIGNER IS NOT UNDER CONTRACT TO PROVIDE THESE PLANS, EXCEPT AS PROVIDED FOR IN ORIGINAL CONTRACT.
- CONTRACTOR WILL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS DESIGNED IF IT IS OBVIOUS THAT FIELD CONDITIONS EXIST THAT WERE NOT CONSIDERED DURING DESIGN. ANY CONDITIONS NOTED AS SUCH SHALL BE REPORTED TO THE ARCHITECT AND IRRIGATION DESIGNER. IF THE CONTRACTOR FAILS TO DO SO, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY CORRECTIONS NEEDED.
- PLANS SCHEMATIC FOR READABILITY. CONTRACTOR TO ADJUST AS NECESSARY TO FIT SITE.
- CONTRACTOR SHALL VERIFY STATIC PRESSURE AT METER MEETS SYSTEM NEEDS. LICENSED IRRIGATOR TO AMEND AS NECESSARY.
- PROVIDE SHUTOFF VALVE POINT OF CONNECTION UPSTREAM OF IRRIGATION BACKFLOW.
- CONTRACTOR IS RESPONSIBLE FOR CONNECTING AUTOMATIC CONTROLLER TO ELECTRICITY.
- 14 GA. SOLID COPPER WIRE (PVC INSULATED AND UL APPROVED) SHALL RUN FROM CONTROLLER TO VALVES. COMMON WIRE TO BE 12GA.
- ALL CONTROL WIRING FROM THE VALVES TO THE CONTROLLER MUST BE INSTALLED IN A 1" PVC CONDUIT PIPE IF BURIED BENEATH CONCRETE OR ASPHALT SURFACES.
- LOCATE VALVES AWAY FROM LOW SPOTS OR AREAS OF DRAINAGE FLOW.
- VALVE CAPS SHALL BE GREEN IN TURF AREAS, TAN IN MULCH AREAS.
- ALL MAINLINES SHALL BE BURIED MIN. 18". ALL LATERALS 12".
- MAINTAIN 4" MINIMUM CLEARANCE BETWEEN PIPE RUNNING IN THE SAME TRENCH. CONTROL WIRE SHALL ALWAYS BE TO THE SIDE AND BELOW THE TOP OF THE PIPE RUNNING IN THE SAME TRENCH.
- POLYETHYLENE TUBING TO BE PLACED UNDER WEED BARRIER FABRIC. MICROTUBING TO BE STAKED.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AS-BUILT DRAWINGS PRIOR TO APPROVAL OF FINAL PAYMENT.
- ALL WIRING/PIPING RUNNING BENEATH PAVED SURFACES (DRIVES, SIDEWALKS, ETC.) SHALL BE INSTALLED IN CLASS 200 PVC SLEEVES. IF SIZE NOT INDICATED IN LEGEND, THEN SLEEVES SHALL BE 2 SIZES GREATER THAN THE COMBINED OUTER DIAMETER OF ALL ITEMS INSTALLED IN THE SLEEVES. MINIMUM SLEEVE SIZE TO BE 1 IN. FOR WIRING BUNDLES LESS THAN 1/2" IN DIAMETER.
- PROVIDE FLUSH VALVE AT END OF MAINLINE.

AS1.0



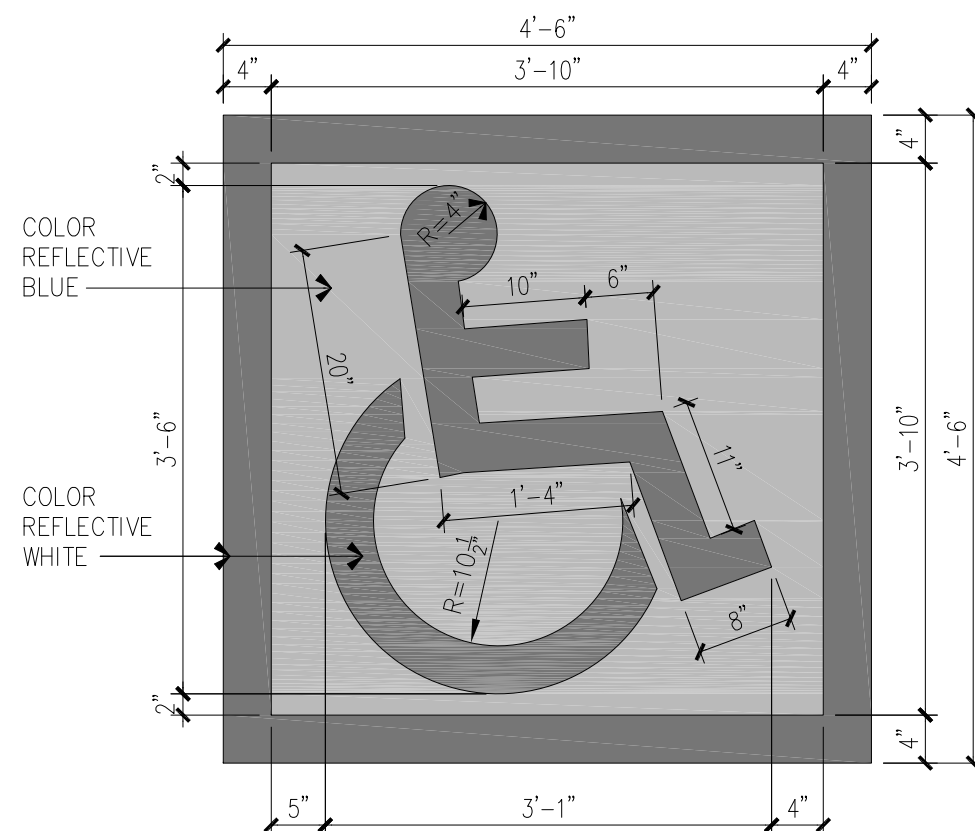
1 CURB RAMP DETAIL

SCALE: 1/2" = 1'-0"



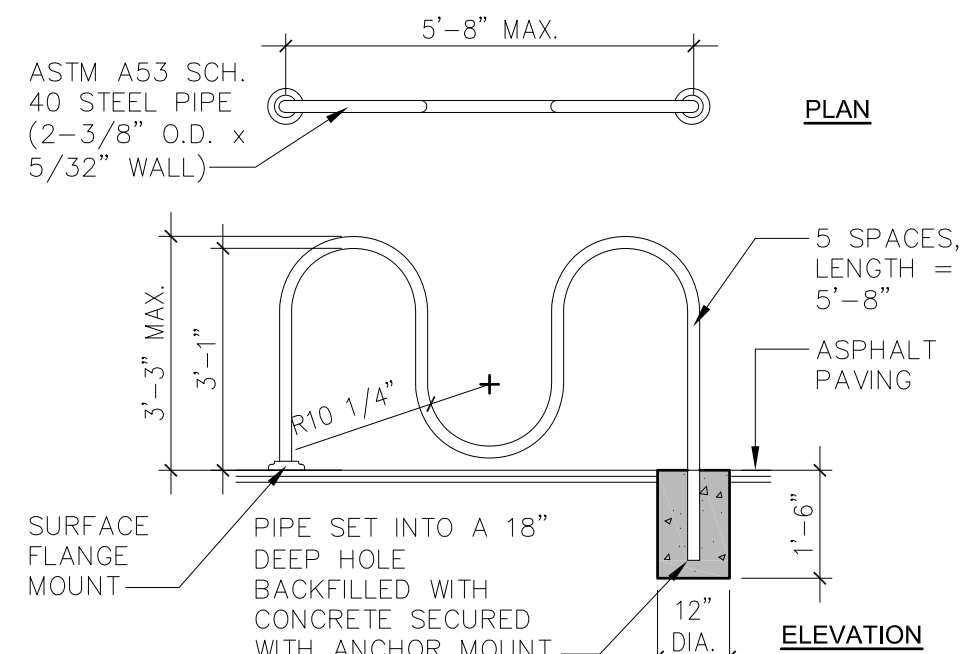
2 CURB RAMP DETAIL

SCALE: 3/4" = 1'-0"



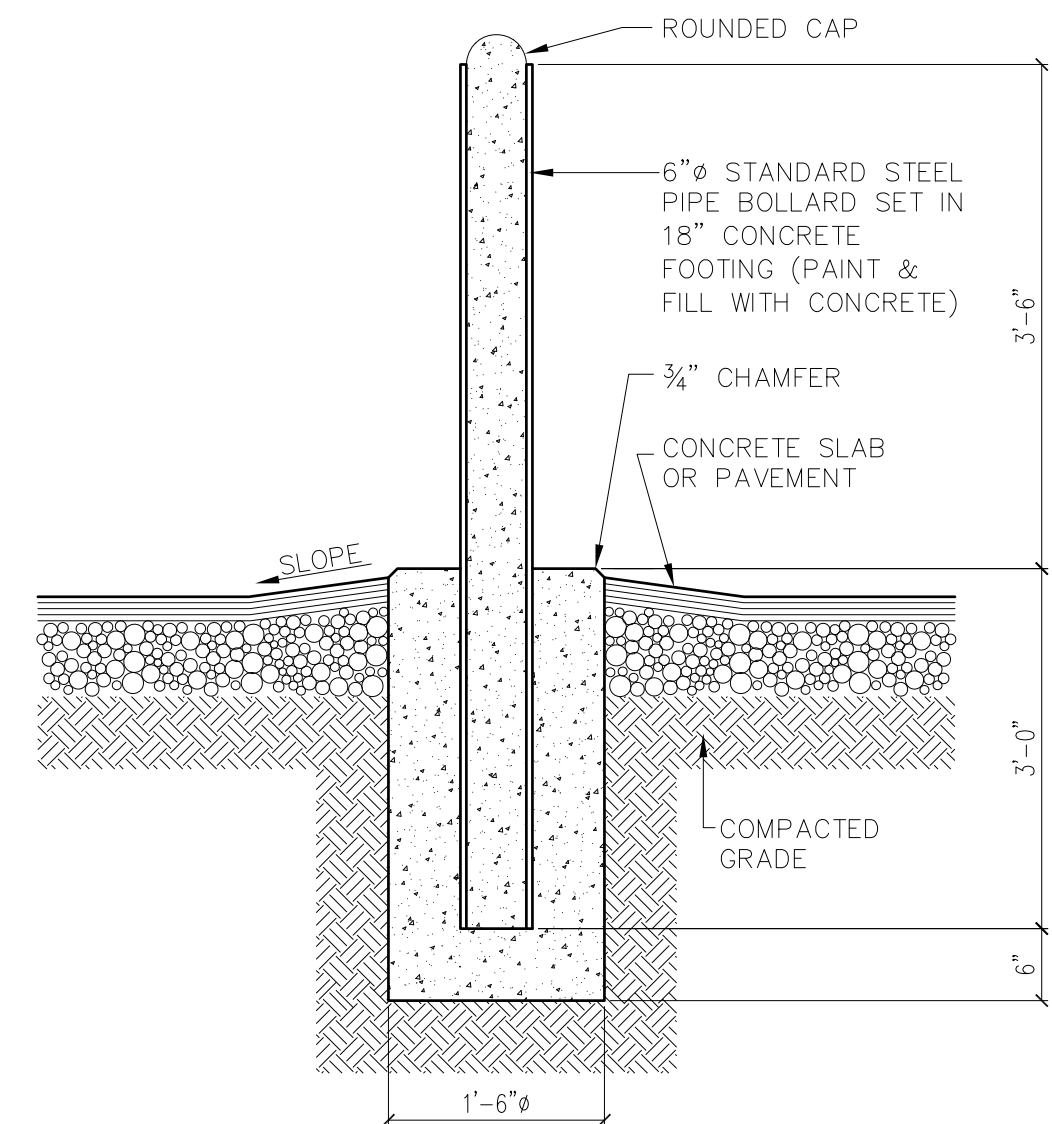
3 A.D.A. PARKING SYMBOL DTL.

SCALE: 3/4" = 1'-0"



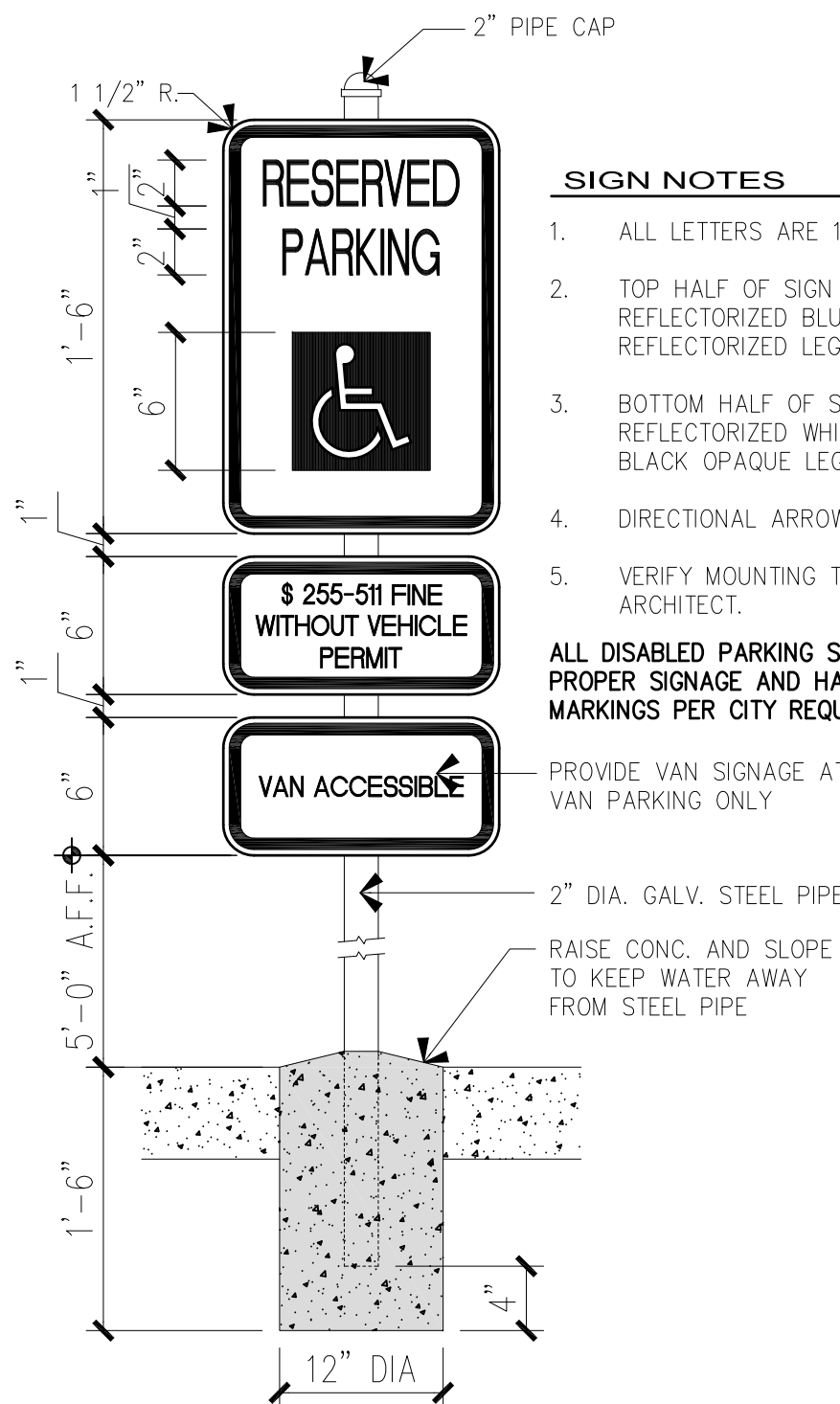
4 BICYCLE RACK DETAIL

SCALE: 3/8" = 1'-0"



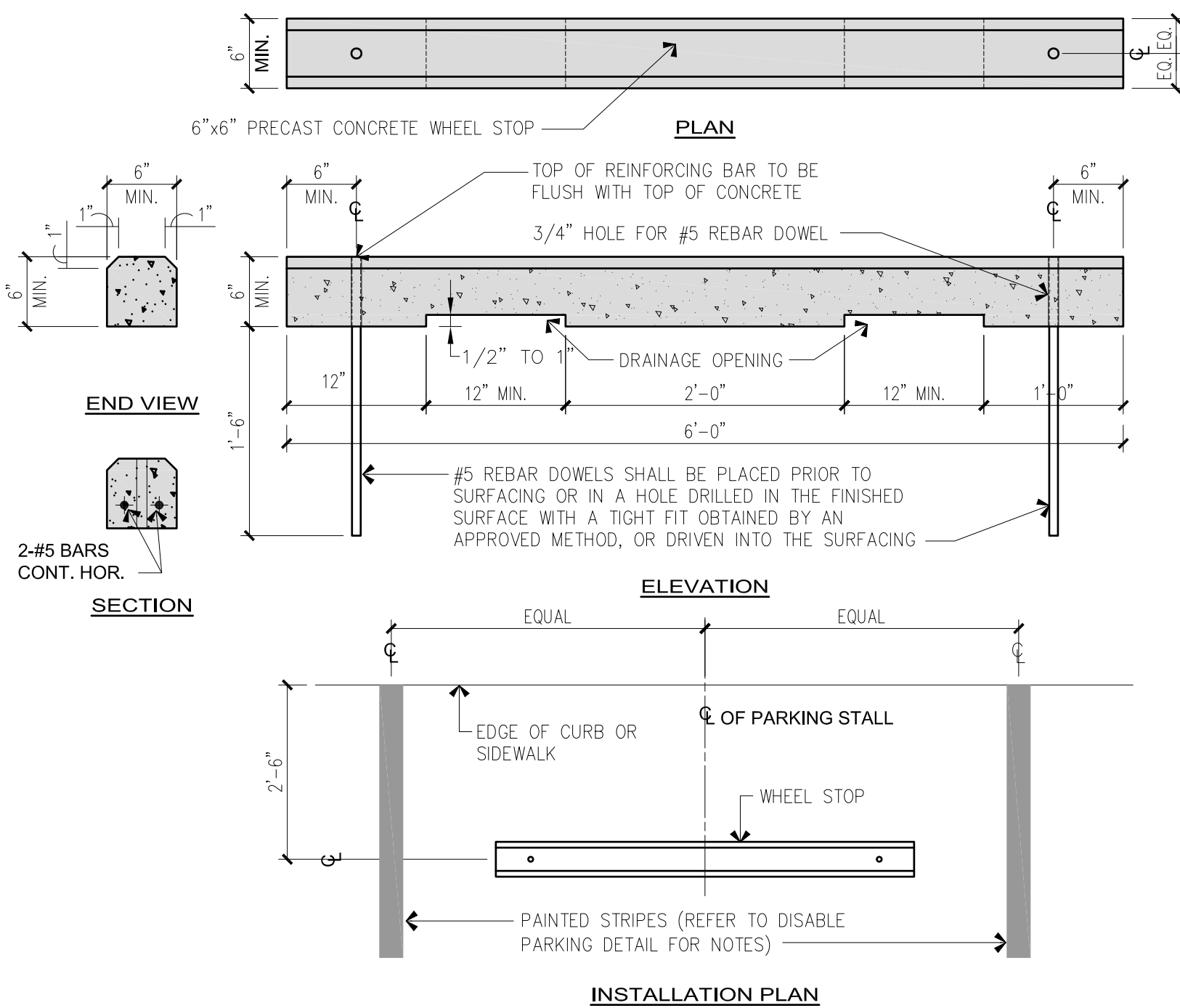
5 PIPE BOLLARD DETAIL

SCALE: 3/4" = 1'-0"



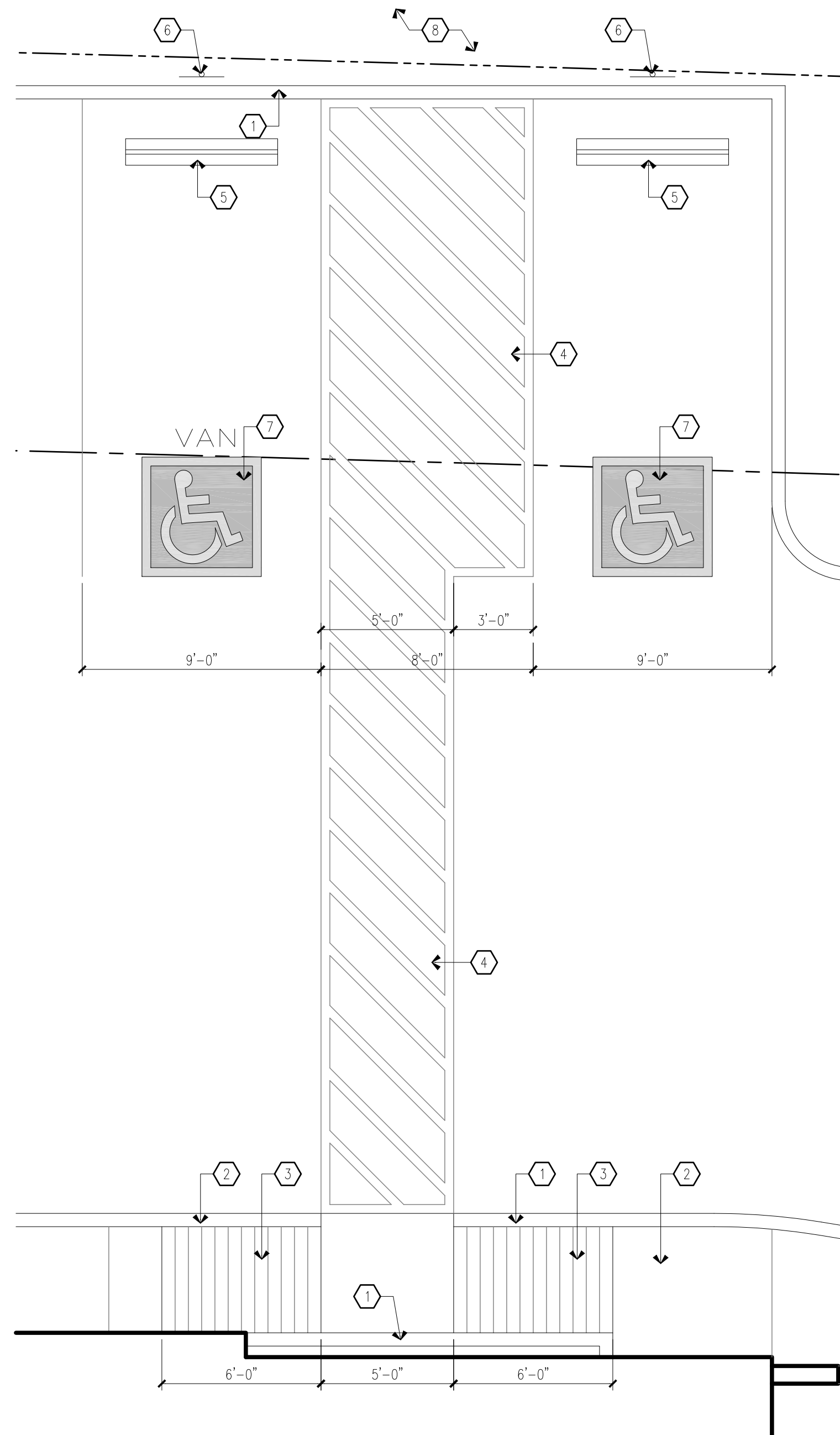
7 TYP. VERTICAL ACCESSIBLE SIGNAGE

SCALE: 1 1/2" = 1'-0"



6 PRECUTS CONCRETE WHEEL STOP DETAIL

SCALE: 1" = 1'-0"



A ENLARGED PARTIAL SITE PLAN

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

IMPROVEMENT KEY NOTES:

- 1 CONCRETE CURB AND GUTTER - REFER TO CIVIL DRAWINGS
- 2 4" THICK CONCRETE SIDEWALK WITH 6x6x10/10 W.W.M. - REFER TO CIVIL DRAWINGS
- 3 CONCRETE CURB RAMP - REFER 1/AS1.1
- 4 4" WIDE PAINTED PARKING STRIPPING (TYP.)
- 5 CONCRETE WHEEL STOP (TYP.) - REFER TO 6/AS1.1
- 6 PARKING SIGNAGE (EACH HANDICAP SPACE [TYP.]) - REFER TO 7/AS1.1
- 7 INTERNATIONAL A.D.A. SYMBOL PAINTED (TYP.) - (PAINT SYMBOL ONTO PAVED SURFACE WITH TWO COATS OF WHITE TRAFFIC PAINT MANUFACTURED PER D.O.T. SPECIFICATIONS EACH HANDICAP SPACE. PROVIDE VAN ACCESSIBLE SPACE AND PROVIDE PAINTED "VAN" LETTERING) - REFER TO 3/AS1.1
- 8 LANDSCAPE AREA - REFER TO LANDSCAPE DRAWINGS

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i1 WAREHOUSE & OFFICE

for:

ICOMSA, LLC

140 RAY WARD PLACE, SANTA TERESA, N.M. 88008

Number	Description

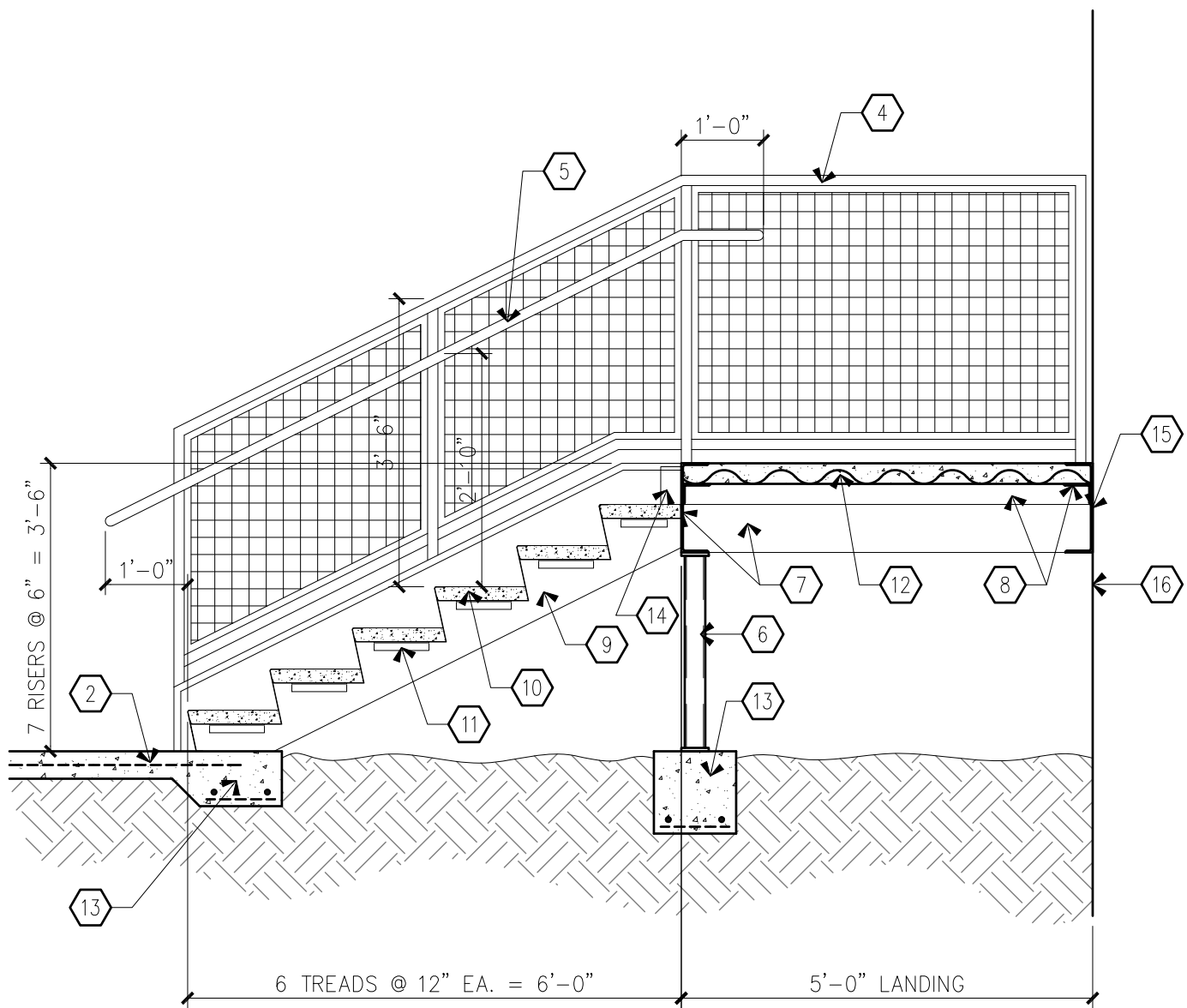
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07/15/2024

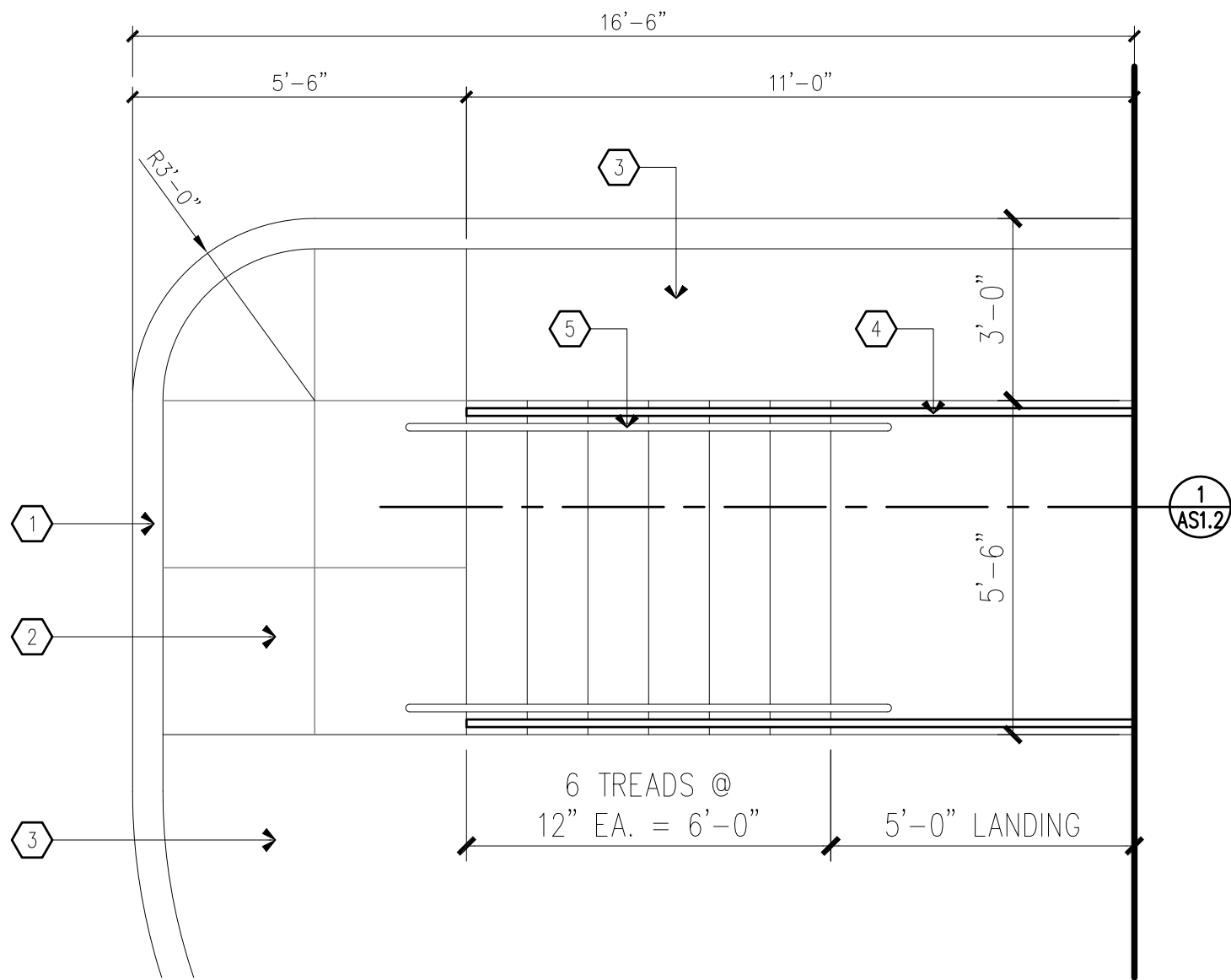
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Revised:	-
Project No.	2407
Drawn By:	E.E.E.
Checked By:	E.E.E.
File Name:	
Sheet Title:	SITE DETAILS

Sheet No.

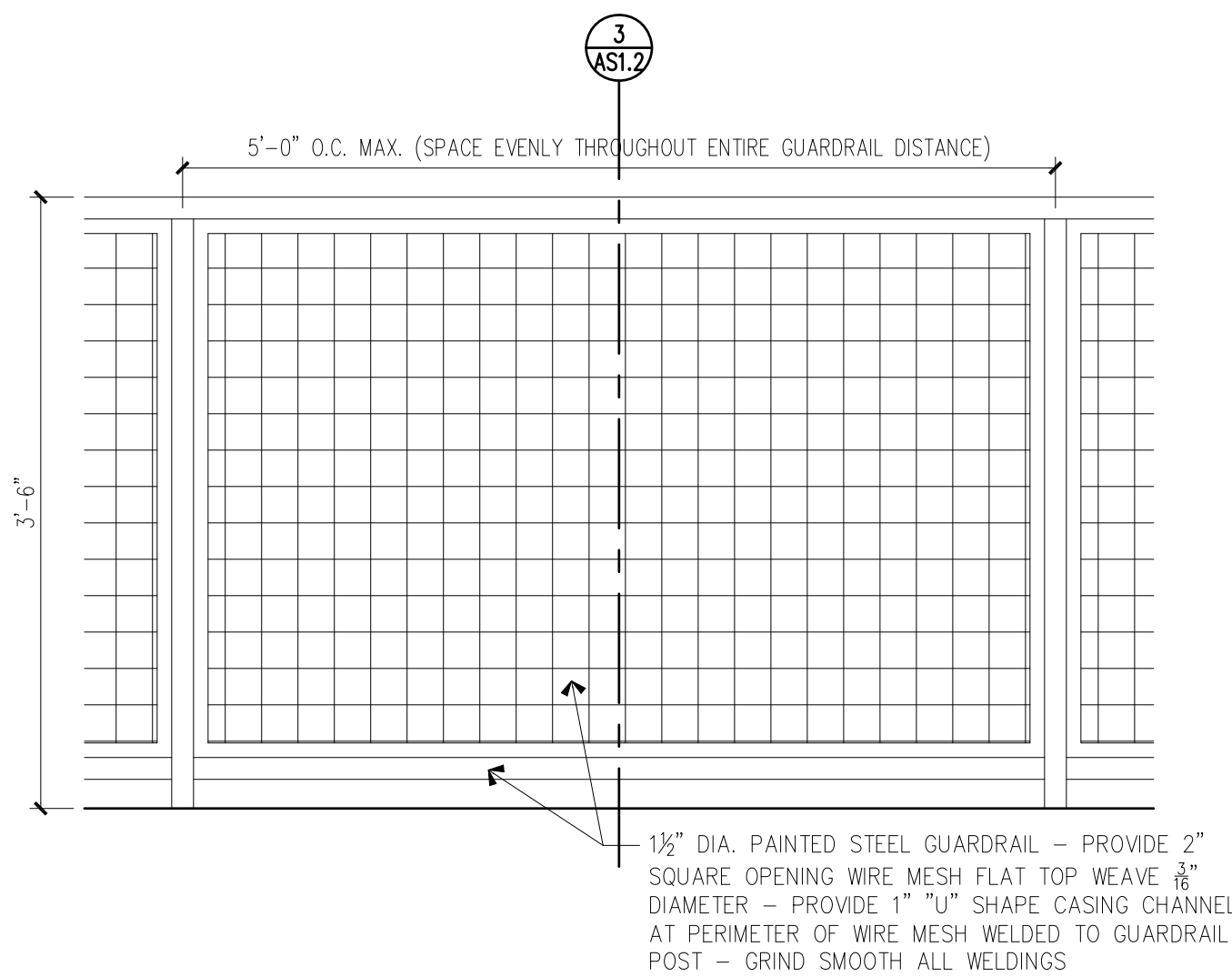
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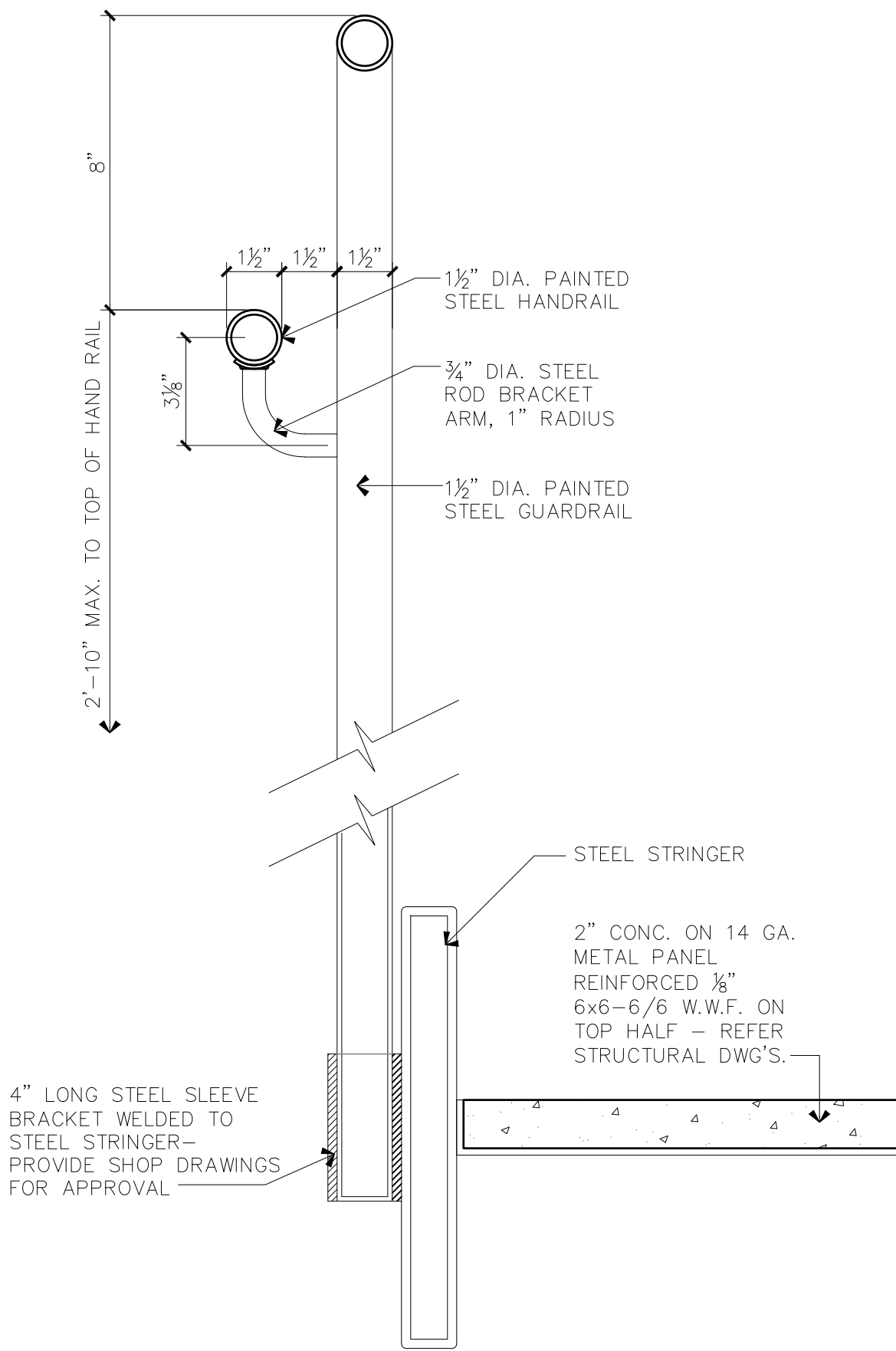
1 STAIR SECTION
SCALE: 1/2" = 1'-0"



A ENLARGED PARTIAL SITE PLAN
SCALE: 3/8" = 1'-0"



2 GUARD RAIL DETAIL
SCALE: 1" = 1'-0"



3 HAND/GUARD RAIL DETAIL
SCALE: 1" = 1'-0"

IMPROVEMENT KEY NOTES:

- 1 CONCRETE CURB AND GUTTER - REFER TO CIVIL DRAWINGS
- 2 4" THICK CONCRETE SIDEWALK WITH 6x6x10/10 W.W.M. - REFER TO CIVIL DRAWINGS
- 3 LANDSCAPE AREA - REFER TO LANDSCAPE DRAWINGS
- 4 42" HIGH GUARDRAIL - REFER TO 2/AS1.2
- 5 1 1/2" DIA. STEEL HANDRAIL - GRIND SMOOTH ALL WELDINGS AND EDGES - REFER TO 3/AS1.2
- 6 HSS 4x4x1/4" PAINTED STEEL COLUMN - REFER TO STRUCTURAL DRAWINGS
- 7 STEEL CHANNEL - C 12x20.7 - REFER TO STRUCTURAL DRAWINGS
- 8 L3x3x1/4" - REFER TO STRUCTURAL DRAWINGS
- 9 STEEL STRINGER C12x20.7 - REFER TO STRUCTURAL DRAWINGS
- 10 METAL PAN INFILLED WITH 2" CONCRETE - REFER TO STRUCTURAL DRAWINGS
- 11 STRUCTURAL ANGLES - REFER TO STRUCTURAL DRAWINGS
- 12 CONCRETE SLAB OVER 1.0C20 CONFORM DECK (3" TOTAL THICKNESS) - REFER TO STRUCTURAL DRAWINGS
- 13 CONCRETE FOOTING - REFER TO STRUCTURAL DRAWINGS
- 14 L3x3x1/4" x 8" WELD TO C12 - REFER TO STRUCTURAL DRAWINGS
- 15 5/8" HILTI TZ2 (6" EMBEDMENT) @ 12" O.C.
- 16 LINE OF BUILDING AND FOUNDATION SLAB

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i1 WAREHOUSE & OFFICE

for:

ICOMSA, LLC

140 RAY WARD PLACE, SANTA TERESA, N.M. 88008

Number	Date	Description

Architect Seal:

07/15/2024

Date:	07/15/2024
Revised:	-
Project No.	2407
Drawn By:	E.E.E.
Checked By:	E.E.E.
File Name:	

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SITE DETAILS

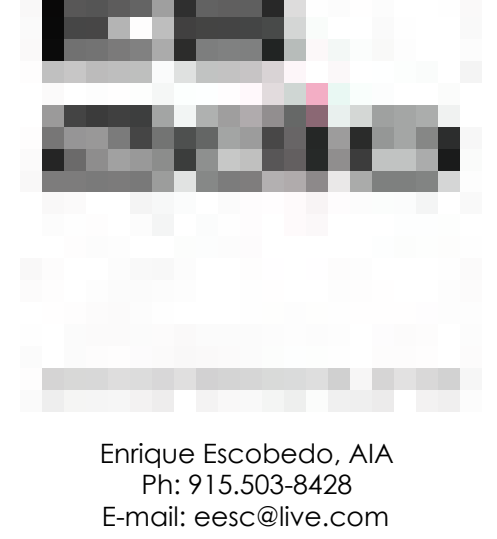
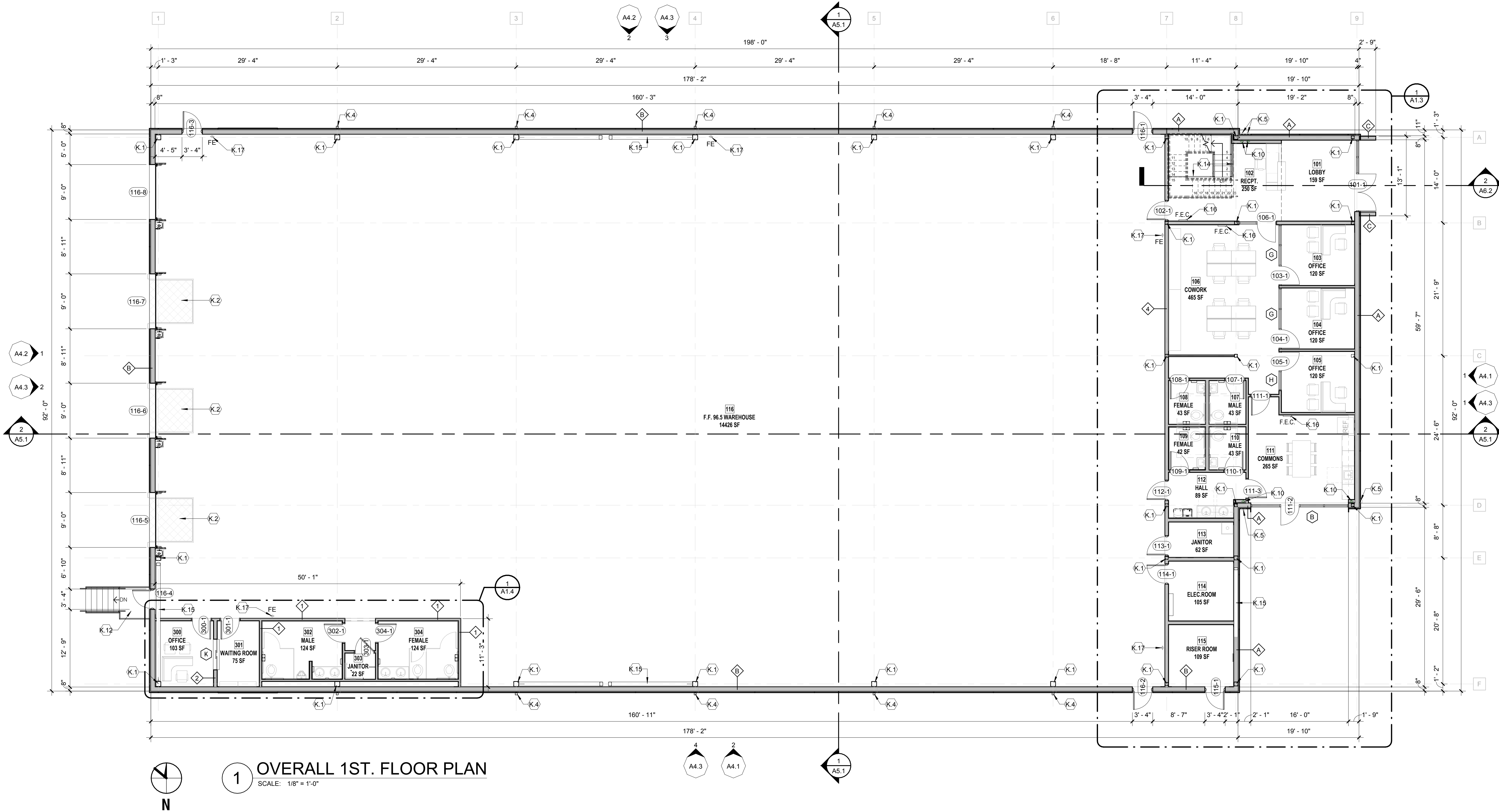
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AS1.2

KN - FLOOR PLAN KEY NOTES	
K.1	STEEL COLUMN - REFER TO STRUCTURAL DRAWINGS
K.2	DOCK PIT WITH MECHANICAL PIT LEVELER BY AARON BRADLEY OR APPROVED EQUAL - PROVIDE DOCK SEAL AND HEAD CURTAINBY AARON BRADLEY OR APPROVED EQUAL - PROVIDE DOCK BUMPERS WITH STEEL PLATE ANCHORS
K.3	ELECTRIC WATER COOLER WITH ENHANCED BOTTLE FILLING STATION (E.W.C.) - REFER TO PLUMBING DRAWINGS AND SHEET G1.3 FOR MOUNTING HEIGHT.
K.4	PRE-FINISHED METAL DOWNSPOUT
K.5	ROOF DRAIN/ OVERFLOW DRAIN DOWNSPOUT NOZZLE COVER
K.6	42" HIGH WROUGHT IRON GUARDRAIL - SEE SHEET A6.3
K.7	O'KEEFFE'S INC ROOF ACCESS LADDER
K.8	EQUINOX 7" H. SCREEN SYSTEM PSEQ-A96 (DIRECT MOUNT) WITH ALUMINUM POSTS AND INSTALLATION HARDWARE AS MANUFACTURED BY PARASOLEIL OR APPROVED EQUAL. PATTERN AS SELECTED BY ARCHITECT/OWNER.
K.9	FURNITURE BY OWNER
K.10	ROOF DRAIN AND OVERFLOW DRAIN LINES - REFER TO PLUMBING DRAWINGS
K.11	MOP SINK AND MOP HOLDER - REFER TO PLUMBING DRAWINGS - PROVIDE CERAMIC WALL TILE WAINSCOT 5'-0" HIGH AT BOTH WALLS MOP SINK ABUDS - PROVIDE JOPLY BULL NOSE EDGE PROTECTION BY SCHLUTER AT TOP COURSE OF WALL TILE. AT SIDE EXPOSED EDGES OF WALL TILE, AND AT EXTRUDED WALL CORNERS

KN - FLOOR PLAN KEY NOTES	
K.12	STEEL ACCESS STEPS AND LANDING - REFER TO SITE PLAN
K.13	O'KEEFFE'S INC ROOF ACCESS LADDER
K.14	FLOOR MOUNTED BUMP CANE DETECTOR RAIL BELOW STAIRCASE AS MANUFACTURED BY KENT STAINLESS OR APPROVED EQUAL.
K.15	STRUCTURAL BRACING - REFER TO STRUCTURAL DRAWINGS
K.16	FIRE EXTINGUISHER AND CABINET. SEE SHEET G1.3 FOR MOUNTING HEIGHT INFORMATION.
K.17	WALL MOUNTED FIRE EXTINGUISHER WITH BRACKET. SEE SHEET G1.3 FOR MOUNTING HEIGHT INFORMATION.

PROJECT GENERAL NOTES			ACCESSORY LEGEND	
PROJECT GENERAL NOTES PROVIDE INFORMATION CONCERNING THE WORK OF THE ENTIRE PROJECT AND ARE NOT LIMITED TO ANY INDIVIDUAL DRAWING OR SHEET.				
1.	MAKE THE NECESSARY ARRANGEMENTS WITH THE OWNER TO VISIT THE SITE PRIOR TO SUBMITTING A PROPOSAL. EXAMINE THE EXISTING SITE AND FACILITIES. FIELD VERIFY ALL CONDITIONS. SUBMISSION OF A PROPOSAL SHALL BE TAKEN AS EVIDENCE THAT THE CONTRACTOR HAS PHYSICALLY INSPECTED THE SITE AND MADE HIM OR HERSELF FAMILIAR WITH AND UNDERSTANDS THE REQUIRED SCOPE OF WORK.	8.	REPORT ALL DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.	F.E. FIRE EXTINGUISHER AND BRACKET F.E.C. FIRE EXTINGUISHER AND CABINET E.W.C. ELECTRIC WATER COOLER S.D. SOAP DISPENSER E.H.D. ELECTRIC HAND DRYER T.T.D. TOILET TISSUE DISPENSER P.T.D. PAPER TOWEL DISPENSER S.N.D. SANITARY NAPKIN DISPOSAL F.D. FLOOR DRAIN M.ADA ADA MIRROR
2.	ACTUAL FIELD CONDITIONS FOUND TO BE AT VARIANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR HIS CONSIDERATION BEFORE PROCEEDING WITH THE WORK.	9.	ALL TEMPORARY UTILITIES SHALL BE PAID BY THE CONTRACTOR.	SYMBOLS
3.	ALL DIMENSIONS ARE NOMINAL AND REQUIRE FIELD VERIFICATION AND C COORDINATION. DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF GYPSUM BOARD OR FACE OF CMU. UNLESS NOTED OTHERWISE, DO NOT SCALE DRAWINGS.	10.	THE BUILDING PERMIT AND INSPECTIONS REQUIRED FOR THIS PROJECT SHALL BE OBTAINED AND PAID BY THE CONTRACTOR.	
4.	LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND COORDINATE ALL WORK WITH RESPECTIVE UTILITY OWNERS.		THE CONTRACTOR WILL COORDINATE THE PHASING OF THE WORK WITH THE ARCHITECT AND THE OWNER PRIOR TO BEGINNING THE WORK.	
5.	GENERAL DATA SHOWN ON ONE PART OF THE DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS.	11.	AREAS INDICATED LANDSCAPING SHALL BE CLEARED OF ALL NON-SOIL MATERIALS AND FINE GRADED TO THE FINISH GRADES INDICATED. (1' BELOW TOP OF ADJACENT ELEVATIONS), ALL LANDSCAPED AREAS TO BE COMPACTED TO 90% DENSITY.	
6.	ALL FINISHES, TEXTURES, ETC. NOT INDICATED, SHALL BE AS SELECTED BY ARCHITECT.	12.	CONTRACTOR IS RESPONSIBLE FOR INCIDENTAL WORK REQUIRED WITHIER INDICATED OR NOT TO COMPLETE NEW WORK FOR INTENDED USE.	 WALL TYPE
7.	THE CONSTRUCTION DOCUMENTS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION MUST COMPLY WITH ALL GOVERNING REGULATIONS CONCERNING SAFETY, IS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.	13.	EXTEND ALL INTERIOR WALLS TO BOTTOM OF DECK.	 DOOR NUMBER
		14.	CONTRACTOR TO INSTALL BLOCKING IN CEILINGS AND WALLS FOR ALL ACCESSORIES, WALL MOUNTED ITEMS, CEILING FANS, TOILET PARTITIONS, ETC.	 WINDOW TYPE
		15.	INSTALL STAINLESS STEEL CORNER GUARDS THROUGHOUT INTERIOR OF THE BUILDING.	
		16.	REFER TO ADAAG GUIDELINES AND SHEETS G1.3 FOR MOUNTING HEIGHTS, CLEARANCES, FIXTURE HEIGHTS, AND PLACEMENT DISTANCES FOR ALL FIXTURES, ACCESSORIES AND/OR APPLIANCES.	



i1 Warehouse & Office
for:
ICOMSA, LLC
140 RAY WARD PL SANTA TERESA, NM 88008

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07/15/24

Date: 07/15/24

Revised: -

Project No. 2407

Drawn By: JSMS/EE

Checked By: EEE

File Name:

Sheet Title:
FLOOR PLAN 1ST FLOOR

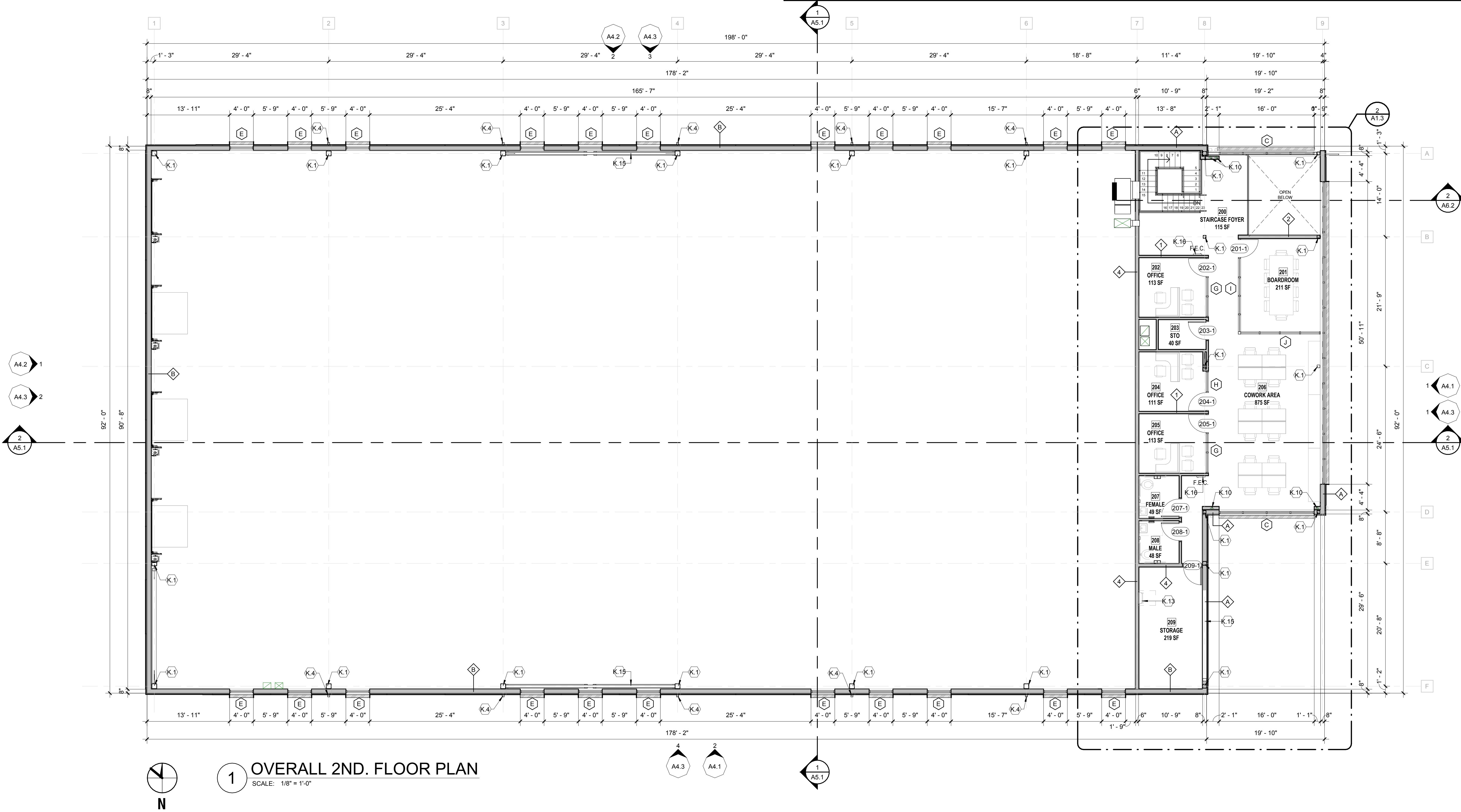
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KN - FLOOR PLAN KEY NOTES	
K.1	STEEL COLUMN - REFER TO STRUCTURAL DRAWINGS
K.2	DOCK PIT WITH MECHANICAL PIT LEVELER BY AARON BRADLEY OR APPROVED EQUAL - PROVIDE DOCK SEAL AND HEAD CURTAINBY AARON BRADLEY OR APPROVED EQUAL - PROVIDE DOCK BUMPERS WITH STEEL PLATE ANCHORS
K.3	ELECTRIC WATER COOLER WITH ENHANCED BOTTLE FILLING STATION (E.W.C.) - REFER TO PLUMBING DRAWINGS AND SHEET G1.3 FOR MOUNTING HEIGHT.
K.4	PRE-FINISHED METAL DOWNSPOUT
K.5	ROOF DRAIN/ OVERFLOW DRAIN DOWNSPOUT NOZZLE COVER
K.6	42" HIGH WROUGHT IRON GUARDRAIL - SEE SHEET A6.3
K.7	O'KEEFFE'S INC ROOF ACCESS LADDER
K.8	EQUINOX 7" H. SCREEN SYSTEM PSEQ-A96 (DIRECT MOUNT) WITH ALUMINUM POSTS AND INSTALLATION HARDWARE AS MANUFACTURED BY PARASOLEIL OR APPROVED EQUAL. PATTERN AS SELECTED BY ARCHITECT/OWNER.
K.9	FURNITURE BY OWNER
K.10	ROOF DRAIN AND OVERFLOW DRAIN LINES - REFER TO PLUMBING DRAWINGS
K.11	MOP SINK AND MOP HOLDER - REFER TO PLUMBING DRAWINGS - PROVIDE CERAMIC WALL TILE WAINSCOT 5'-0" HIGH AT BOTH WALLS MOP SINK ABUDS - PROVIDE JOLLY BULL NOSE EDGE PROTECTION BY SCHLUTER AT TOP COURSE OF WALL TILE. AT SIDE EXPOSED EDGES OF WALL TILE, AND AT EXTRUDED WALL CORNERS

KN - FLOOR PLAN KEY NOTES	
K.12	STEEL ACCESS STEPS AND LANDING - REFER TO SITE PLAN
K.13	O'KEEFFE'S INC ROOF ACCESS LADDER
K.14	FLOOR MOUNTED BUMP CANE DETECTOR RAIL BELOW STAIRCASE AS MANUFACTURED BY KENT STAINLESS OR APPROVED EQUAL.
K.15	STRUCTURAL BRACING - REFER TO STRUCTURAL DRAWINGS
K.16	FIRE EXTINGUISHER AND CABINET. SEE SHEET G1.3 FOR MOUNTING HEIGHT INFORMATION.
K.17	WALL MOUNTED FIRE EXTINGUISHER WITH BRACKET. SEE SHEET G1.3 FOR MOUNTING HEIGHT INFORMATION.

PROJECT GENERAL NOTES			ACCESSORY LEGEND	
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Enrique Escobedo, AIA
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E-mail: eesc@live.com



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E-mail: luminadesignstudio1@gmail.com

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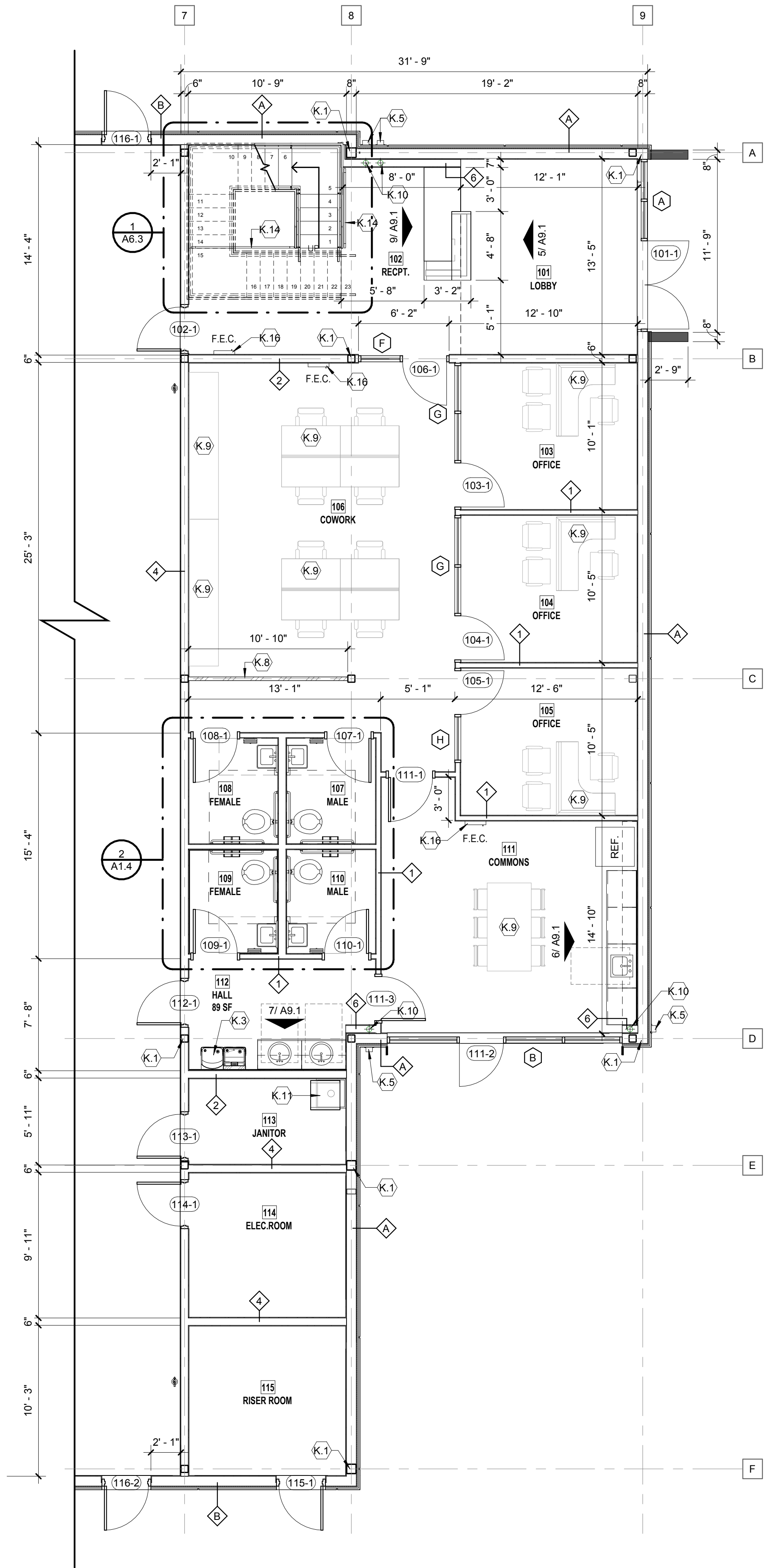
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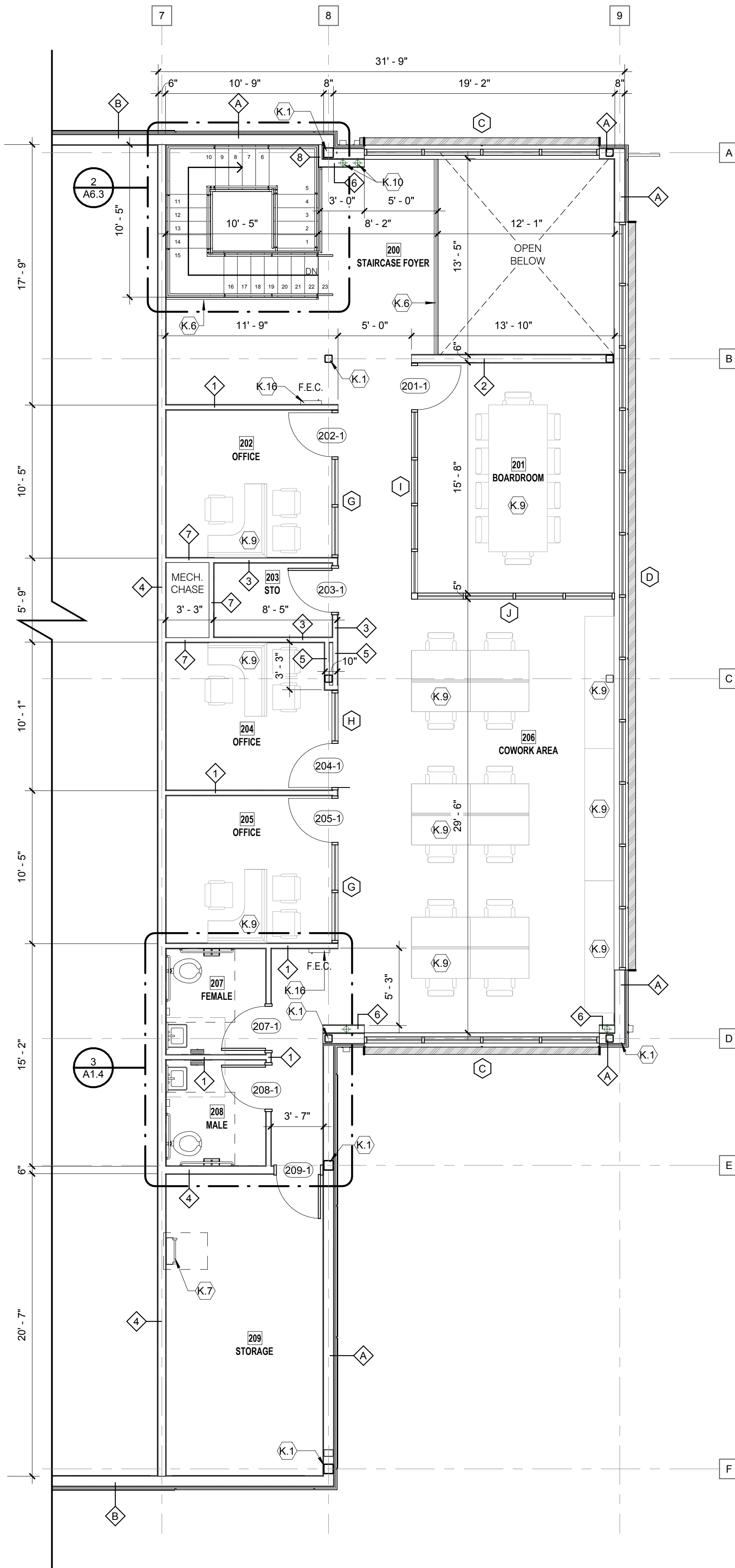
Sheet Title:
FLOOR PLAN 2ND FLOOR

Sheet No.

A1.2



1 ENLARGED PARTIAL 1ST. FLOOR PLAN
SCALE: 3/16" = 1'-0"



2 ENLARGED PARTIAL 2ND. FLOOR PLAN
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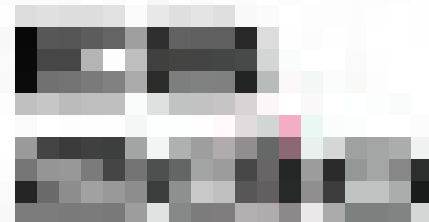
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ACCESSORY LEGEND

F.E.	FIRE EXTINGUISHER AND BRACKET
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E.W.C.	ELECTRIC WATER COOLER
S.D.	SOAP DISPENSER
E.H.D.	ELECTRIC HAND DRYER
T.T.D.	TOILET TISSUE DISPENSER
P.T.D.	PAPER TOWEL DISPENSER
S.N.D.	SANITARY NAPKIN DISPOSAL
F.D.	FLOOR DRAIN
M.A.D.A.	ADA MIRROR
G.B.36	GRAB BAR 36"
G.B.48	GRAB BAR 42"

SYMBOLS

1	WALL TYPE	100	DOOR NUMBER	X	WINDOW TYPE
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E-mail: eesc@live.com



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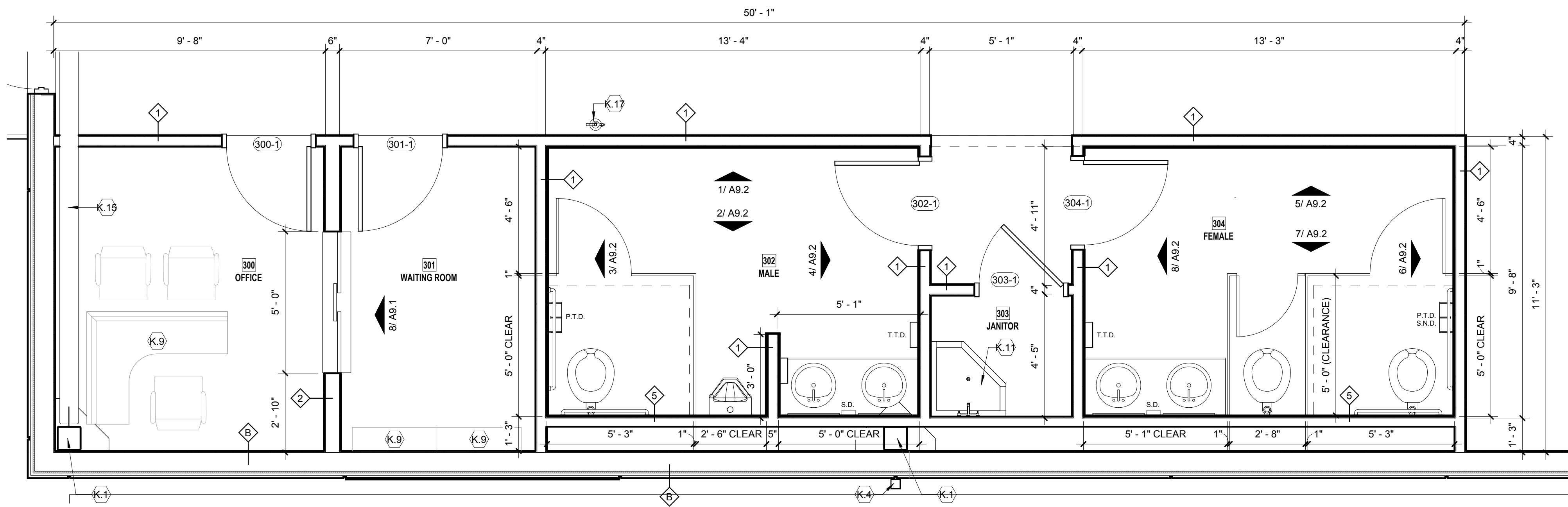
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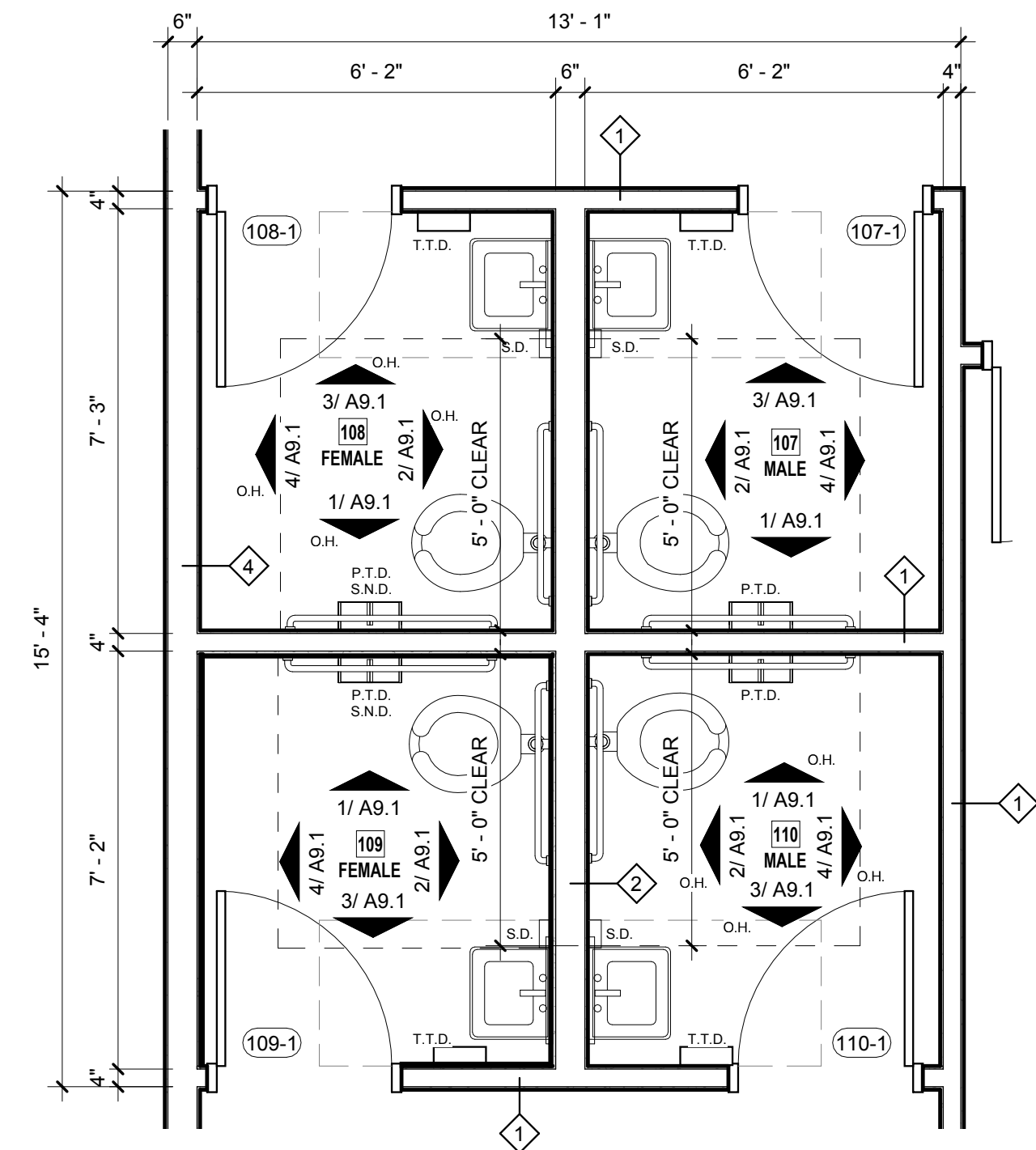
Sheet Title:
PARTIAL 1ST AND 2ND
FLOOR PLANS

Sheet No.

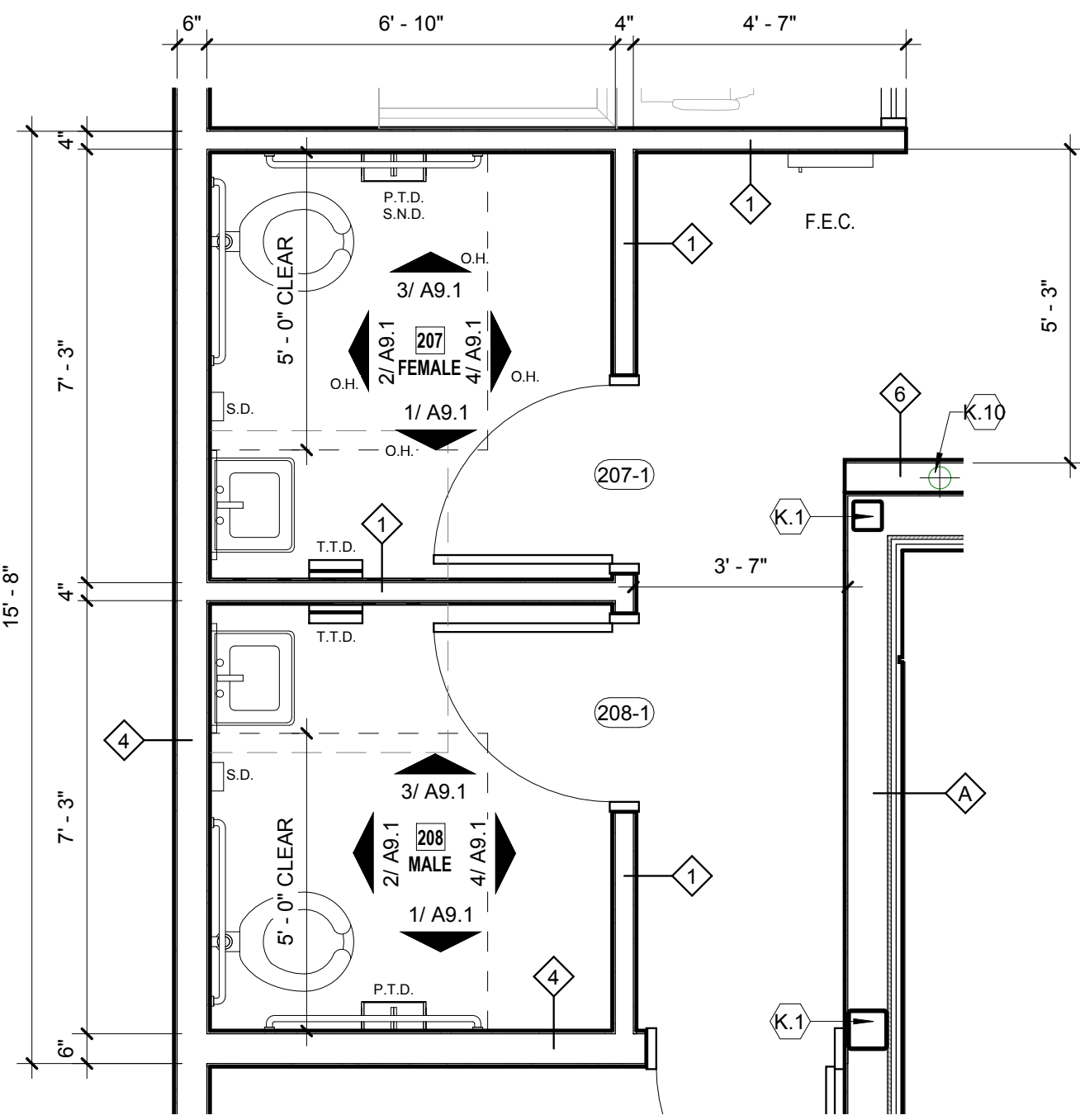
A1.3



1 ENLARGED PARTIAL 1ST. FLOOR PLAN - WAREHOUSE AREA
SCALE: 3/8" = 1'-0"



2 ENLARGED PARTIAL 1ST. FLOOR PLAN - R.R.
SCALE: 3/8" = 1'-0"



3 ENLARGED PARTIAL 2ND. FLOOR PLAN - R.R.
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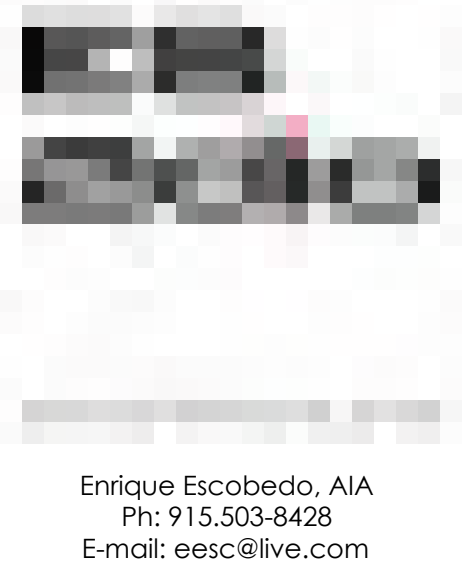
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SYMBOLS

1	WALL TYPE	100	DOOR NUMBER	X	WINDOW TYPE
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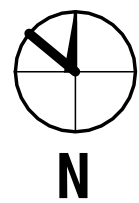
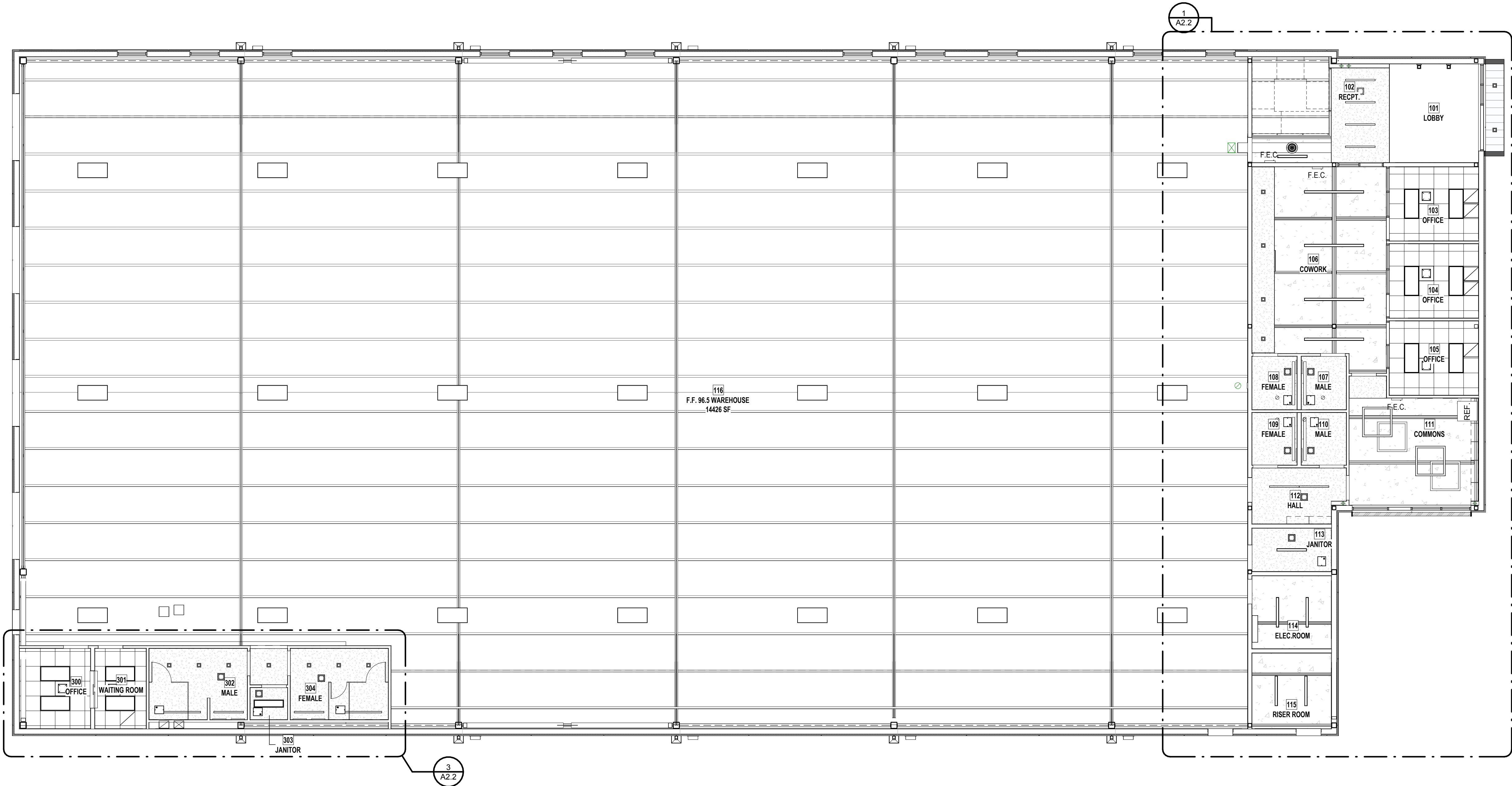
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Sheet Title:
PARTIAL 1ST AND 2ND
FLOOR PLANS

Sheet No.

A1.4



1 OVERALL 1ST. REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

01. ALL CEILING HEIGHTS TAKEN FROM 0'-0". SEE BUILDING SECTIONS FOR ADDITIONAL INFORMATION ON FINISH FLOOR(S) ELEVATIONS.
02. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLUMBING, MECHANICAL, AND ELECTRICAL LAYOUTS WITH THE ARCHITECT PRIOR TO ANY INSTALLATION OF ANY EQUIPMENT.
03. REFERENCE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
04. CONTROL JOINTS (C.J.)

RCP LEGEND

- GB1 - GYPSUM BOARD CEILING FINISH
- L1 - 2 X 2 ACOUSTICAL LAY-IN CEILING SYSTEM AS SPECIFIED
- EXPOSED PAINTED STRUCTURE .
- 2' X 4' LED LAY-IN FIXTURE
- 2' X 2' LED LAY-IN FIXTURE
- 1' X 4' LED LAY-IN FIXTURE
- 4" X 4" LED LAY-IN FIXTURE
- DOWN LIGHT FIXTURE
- SQUARE SUSPENDED LIGHT FIXTURE
- LED LINEAR PENDANT FIXTURES
- LED WALL MOUNT FIXTURE
- ILLUMINATED EXIT SIGN
- EXTERIOR WALL MOUNTED LIGHT FIXTURE
- EMERGENCY LIGHTING
- OPEN TO STRUCTURE
- CEILING ELEVATION ABOVE FINISH FLOOR (AFF)
- SUPPLY DIFFUSER, REFERENCE MECHANICAL FOR SIZE AND TYPE
- RETURN AIR GRILL, REFERENCE MECHANICAL FOR SIZE AND TYPE
- ROOF HATCH AND LADDER

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for:

ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008

Number	Date	Description

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07/15/24

Date: 07/15/24

Revised: --

Project No. 2407

Drawn By: JSMS/EE

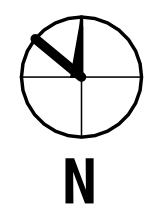
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1ST REFLECTED CEILING
PLAN

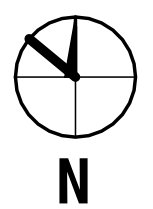
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A2.1



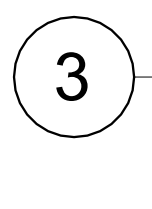
1 PARTIAL RCP 1ST FLOOR

SCALE: 3/16" = 1'-0"



2 PARTIAL RCP 2ND FLOOR

SCALE: 3/16" = 1'-0"



3 PARCIAL RCP 1ST FLOOR

SCALE: 3/16" = 1'-0"

GENERAL NOTES

01. ALL CEILING HEIGHTS TAKEN FROM 0'-0". SEE BUILDING SECTIONS FOR ADDITIONAL INFORMATION ON FINISH FLOOR(S) ELEVATIONS.
02. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLUMBING, MECHANICAL, AND ELECTRICAL LAYOUTS WITH THE ARCHITECT PRIOR TO ANY INSTALLATION OF ANY EQUIPMENT.
03. REFERENCE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
04. CONTROL JOINTS (C.J.)

RCP LEGEND

- GB1 - GYPSUM BOARD CEILING FINISH
- L1 - 2 X 2 ACOUSTICAL LAY-IN CEILING SYSTEM AS SPECIFIED
- EXPOSED PAINTED STRUCTURE
- 2' X 4' LED LAY-IN FIXTURE
- 2' X 2' LED LAY-IN FIXTURE
- 1' X 4' LED LAY-IN FIXTURE
- 4' X 4' LED LAY-IN FIXTURE
- DOWN LIGHT FIXTURE
- SQUARE SUSPENDED LIGHT FIXTURE
- LED LINEAR PENDANT FIXTURES
- LED WALL MOUNT FIXTURE
- ILLUMINATED EXIT SIGN
- EXTERIOR WALL MOUNTED LIGHT FIXTURE
- EMERGENCY LIGHTING
- OPEN TO STRUCTURE
- OTS
- XX'-X" AFF
- CEILING ELEVATION ABOVE FINISH FLOOR (AFF)
- SUPPLY DIFFUSER, REFERENCE MECHANICAL FOR SIZE AND TYPE
- RETURN AIR GRILL, REFERENCE MECHANICAL FOR SIZE AND TYPE
- ROOF HATCH AND LADDER

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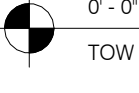
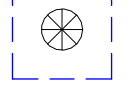
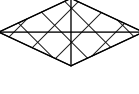
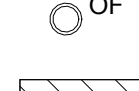
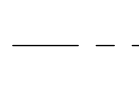
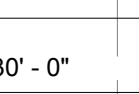
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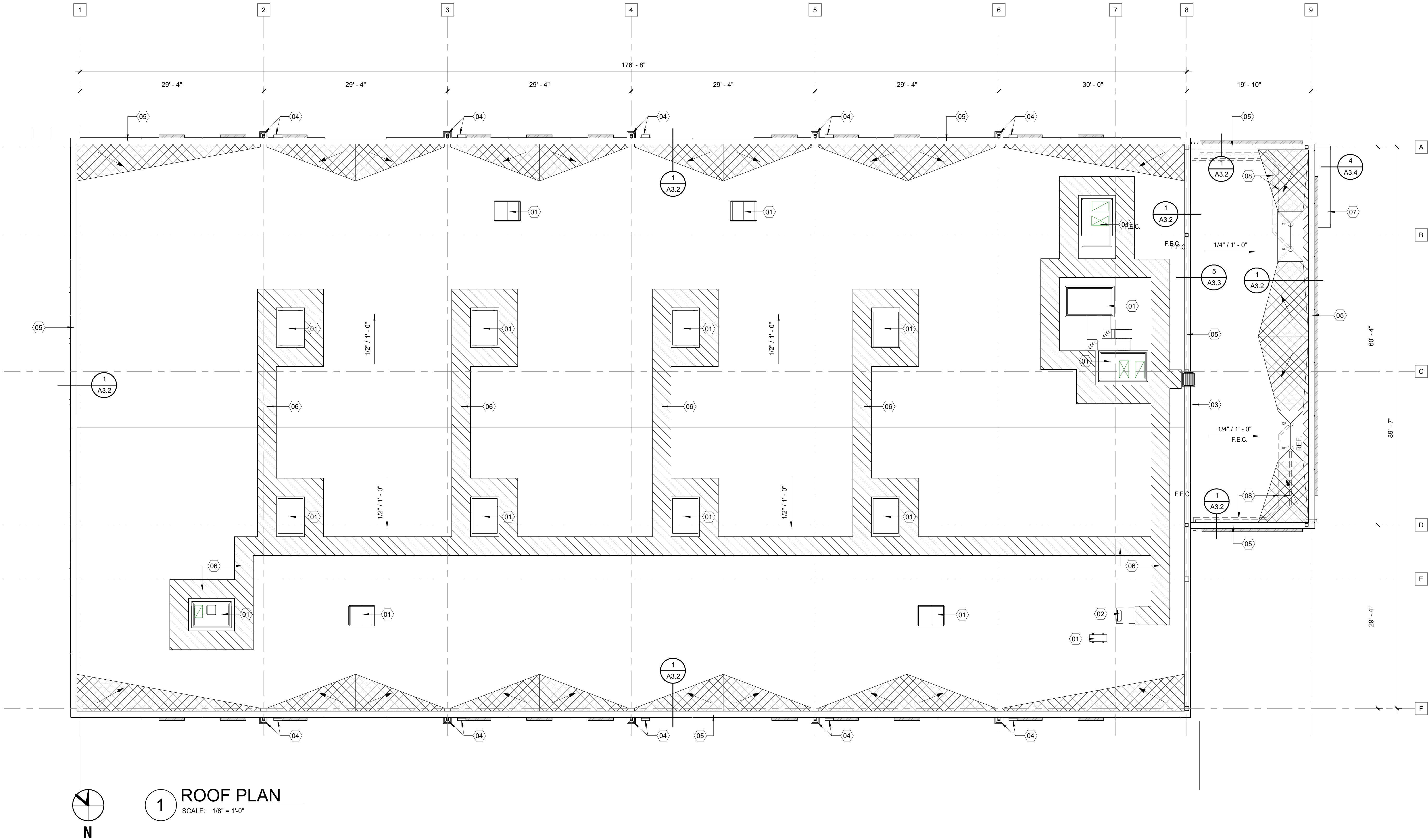
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Project No.	2407
Drawn By:	JSM/SEE
Checked By:	EE
File Name:	
Sheet Title:	ENLARGED 1ST RCP AND 2ND FLOOR
Sheet No.	

A2.2

ROOF KEY NOTES	
01	MECHANICAL EQUIPMENT, PROVIDE ROOF CRICKETS TO DIVERT WATER. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
02	ROOF HATCH & ROOF ACCESS LADDER
03	503 ACCESS LADDER WITH PLATFORM AND RETURN AS MANUFACTURED BY O'KEEFE'S INC.
04	PRE-FINISHED METAL DOWNSPOUT & EMERGENCY OVERFLOW SCUPPER. SEE DTL. 1/A3.4
05	STANDING SEAM PRE-FINISHED METAL COPING, SEE DTLs. 1/A3.2
06	ROOF WALK PADS TO MATCH ROOF SURFACE, 5'-0" WIDE TO COMPLETELY ENCIRCLE ALL MECHANICAL UNITS.
07	ROOF BELOW: 1/2" PER FOOT SLOPE.
08	4" PVC ROOF & OVERFLOW DRAINS.

ROOF PLAN GENERAL NOTES	
1.	ALL TOP OF WALL HEIGHTS TAKEN FROM 0'-0". REFERENCE BUILDING SECTIONS FOR ADDITIONAL INFORMATION ON FINISH FLOOR ELEVATIONS.
2.	CONTRACTOR SHALL PROVIDE AND INSTALL ITEMS NECESSARY TO COMPLETE A NEW ROOFING SYSTEM IN ACCORDANCE WITH MANUFACTURER.
3.	ALL NEW CURBS, FLASHING AND MISCELLANEOUS PENETRATIONS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WARRANTY GUIDELINES AND REGULATIONS.
4.	REFERENCE PLUMBING DRAWINGS FOR EXACT LOCATIONS OR VENT PIPES, ETC.
5.	NO PENETRATIONS PERMITTED THRU ROOF WITHIN 5'-0" OF 2 HOUR WALL ASSEMBLY. SEE GENERAL SHEETS FOR ADDITIONAL INFORMATION.
6.	ALL NEW PIPES, CONDUITS, ETC. ON ROOF SHALL REST ON ROOF TOP PIPE SUPPORTS PLACED UNDER THEM. REFERENCE PLUMBING, MECHANICAL AND ELECTRICAL DWGS.
7.	ALL GAS PIPING ON ROOF SHALL BE PRIMED AND PAINTED OSHA YELLOW. VERTICAL PORTIONS SHALL BE PAINTED TO MATCH THE BUILDING.
8.	COORDINATE ALL SPLASHBLOCK LOCATIONS WITH THE SITE PLAN.
9.	ROOFER SHALL ENSURE POSITIVE DRAINAGE INTO ROOF SCUPPERS. NO PONDING OR BIRD BATHS WILL BE ALLOWED ON ROOF OR AROUND ROOF DRAINS - USE METHODS AND MEANS RECOMMENDED BY THE NATIONAL ROOFING CONTRACTORS ASSOCIATION.
10.	FIELD VERIFY DIFFERENCE IN ROOF HEIGHTS LANDINGS BEFORE ORDERING ROOF LADDERS.
11.	PROVIDE ROOF WALK PADS TO MATCH ROOF SURFACE, 3'-0" WIDE TO COMPLETELY ENCIRCLE ALL MECHANICAL UNITS.
12.	ALL PARAPETS TO RECEIVE PRE-FINISHED STANDING SEAM METAL COPING WITH CONTINUOUS CLEAT ON THE OUTSIDE. REFERENCE ROOFING DETAILS.
13.	ALL MECHANICAL EQUIPMENT STEEL SUPPORTS TO BE PRIMED AND PAINTED.
14.	A CRICKET SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY, MECHANICAL EQUIPMENT, MECHANICAL CURBS, AND/OR PENETRATIONS GREATER THAN 30 INCHES WIDE AS MEASURED PERPENDICULAR TO THE SLOPE.
15.	NEW ROOF SLOPES TO BE PROVIDED WITH TAPERED INSULATION OVER R-30 POLYISOCYANURATE RIGID INSULATION.
16.	PLUMBING VENTS AND OTHER ITEMS VARY PER ROOF CONTRACTOR TO FIELD VERIFY AND RAISE HEIGHT OF ITEMS AS REQUIRED TO COMPLY CODES.
17.	ALL ROOF DRAINS, DOWN SPROUTS AND OTHER WATER OUTLETS MUST BE CLEANED OUT AND CLEARED OF ANY OBSTRUCTIONS.
18.	PROVIDE NEW 36" WIDE WALK PADS AROUND ALL MECHANICAL UNITS/ EQUIPMENT AS SPECIFIED.
19.	PROVIDE NEW 36" WIDE WALK PADS TO AND FROM ROOF ACCESS HATCH AND ROOF ACCESS LADDERS AS SPECIFIED.
20.	PROVIDE CANT STRIP - TYPICAL AT PERIMETER OF ENTIRE ROOF.
21.	ALL LUMBER TO BE FIRE RATED INCLUDING BLOCKING AND PLYWOOD AND MUST INCLUDED IN CONTRACT.

ROOF LEGEND	
	0' - 0" TOW
	INDICATES ARCHITECTURAL ELEMENT
	MECHANICAL EQUIPMENT (REFER TO MECHANICAL DRAWINGS)
	ROOF CRICKET / ROOFING INSULATION BUILT UP
	ROOF HATCH
	ROOF DRAIN
	OVERFLOW DRAIN
	WALK PADS
	ALUMINUM ROOF SHIP LADDER. SEE ROOF DETAILS SHEET
	ROOF EXPANSION JOINT LOCATION(S)
ROOFING ASSEMBLIES: ROOF ASSEMBLY NO. 1: - 80 MIL SINGLE PLY ROOFING SYSTEM (20 YEAR NDL WARRANTY) - 1/2" HD COVER BOARD AS SPECIFIED - TWO LAYERS OF POLYISOCYANURATE (R-30 MIN.) - NEW VENTED BASE SHEET - NEW METAL DECK (STRUCTURAL SLOPE)	



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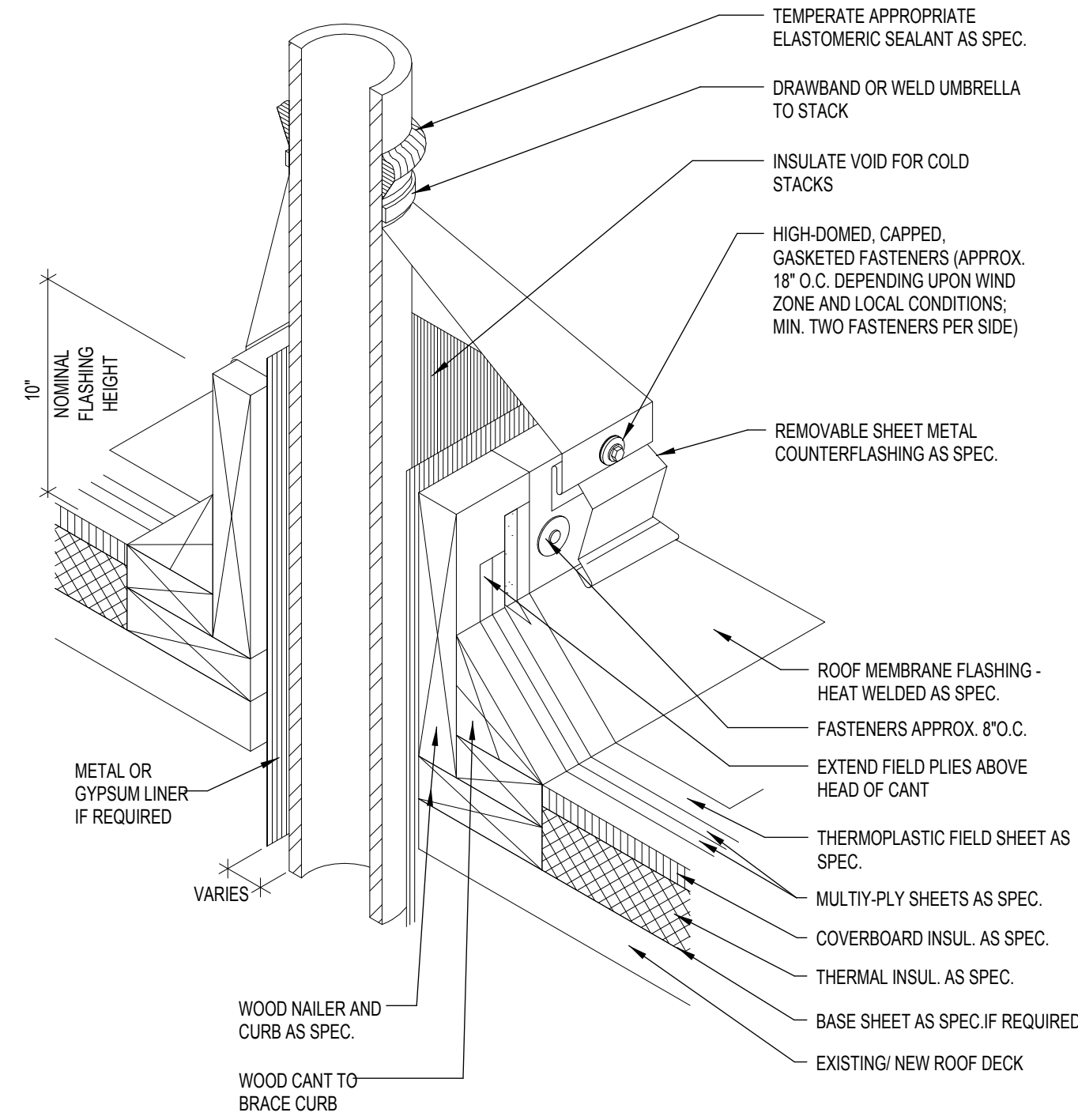
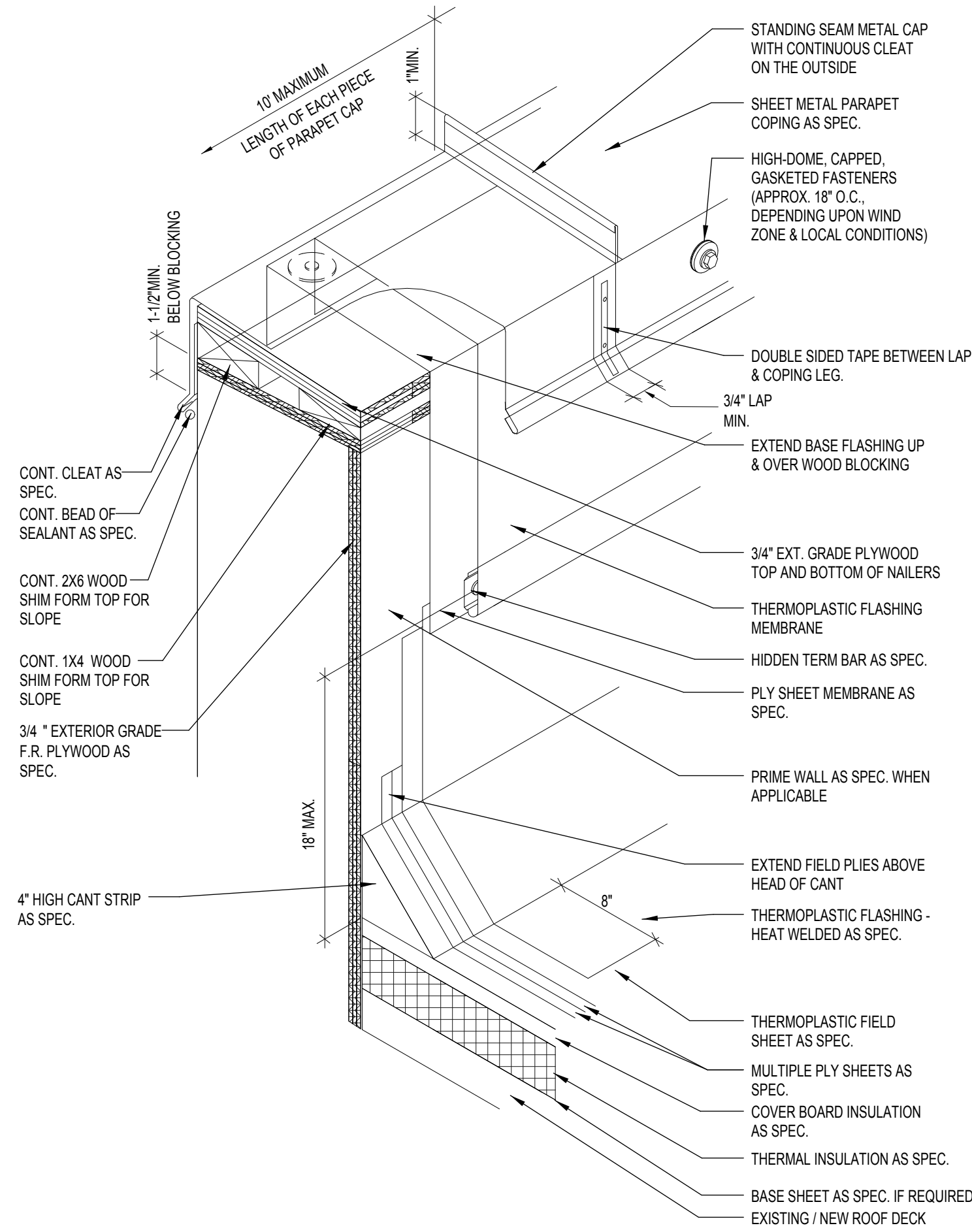
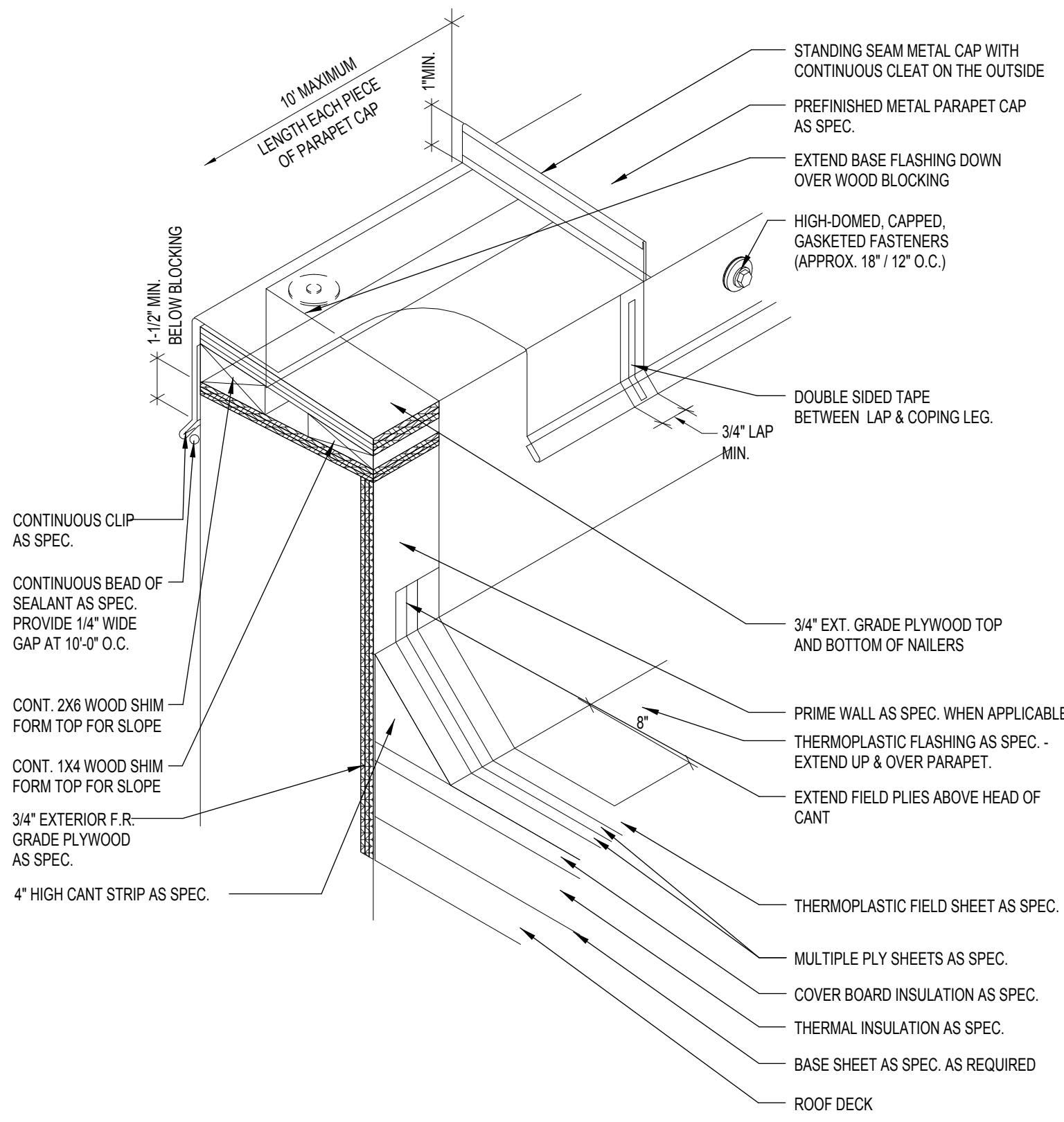
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Sheet No.

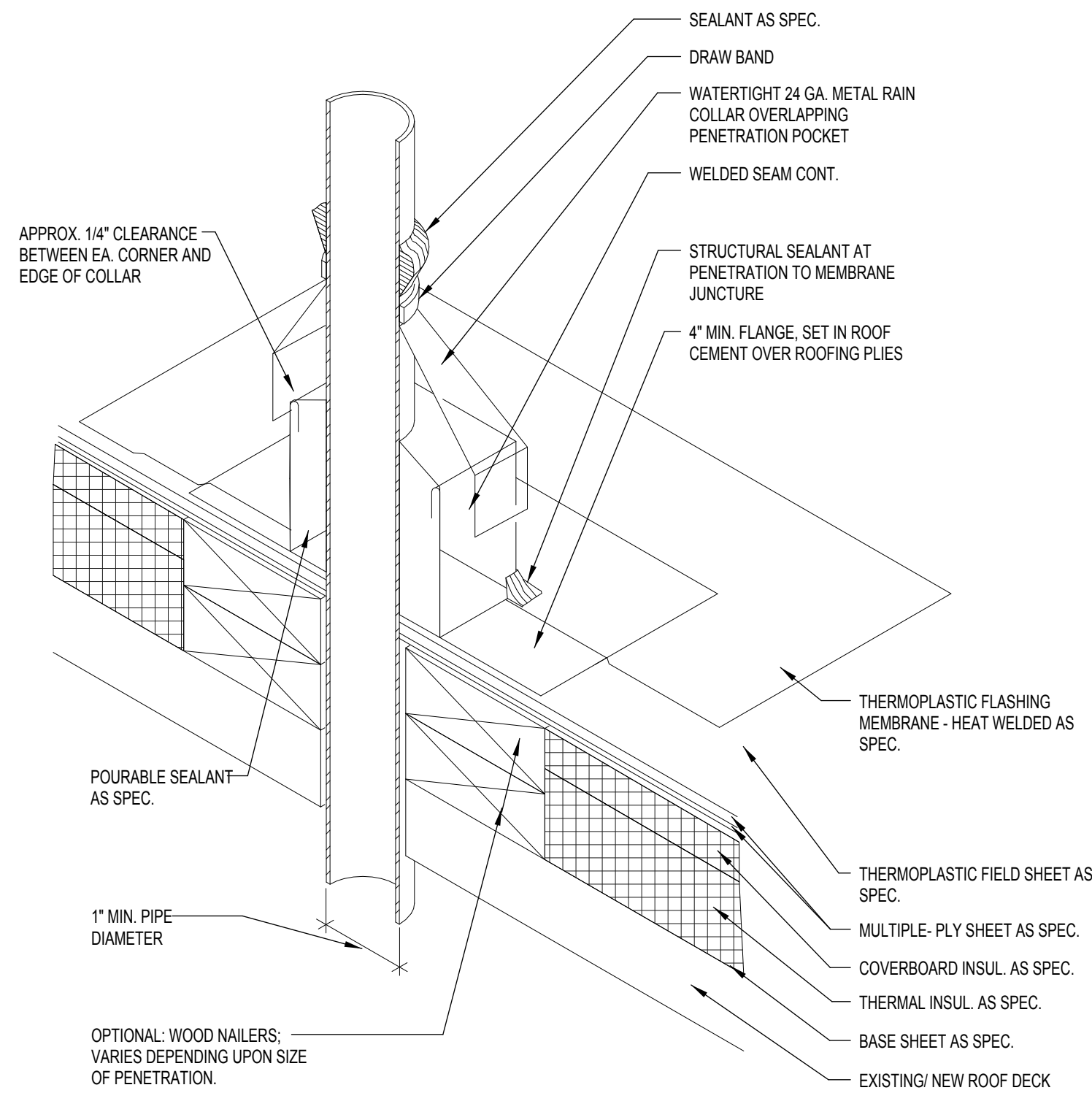
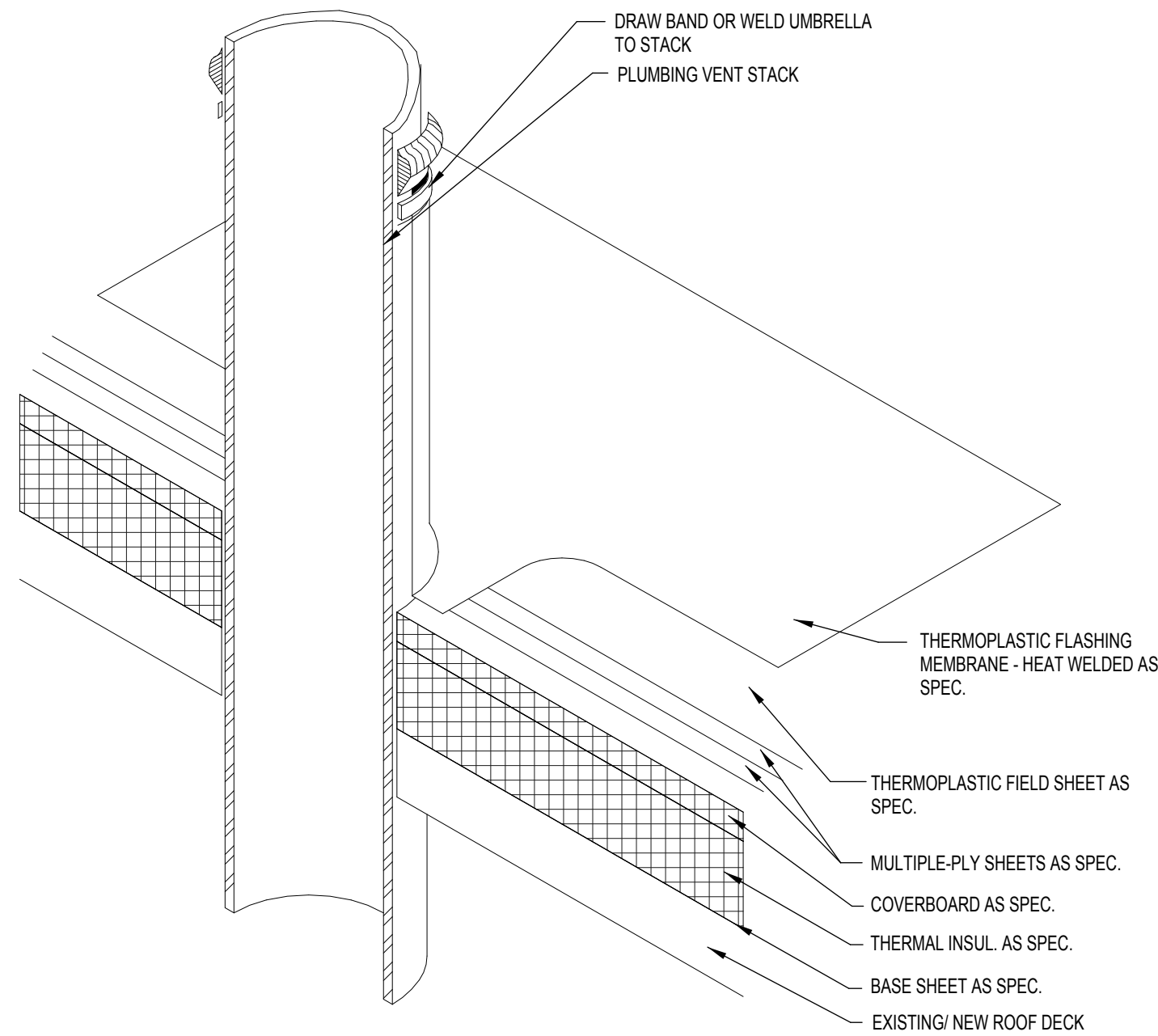
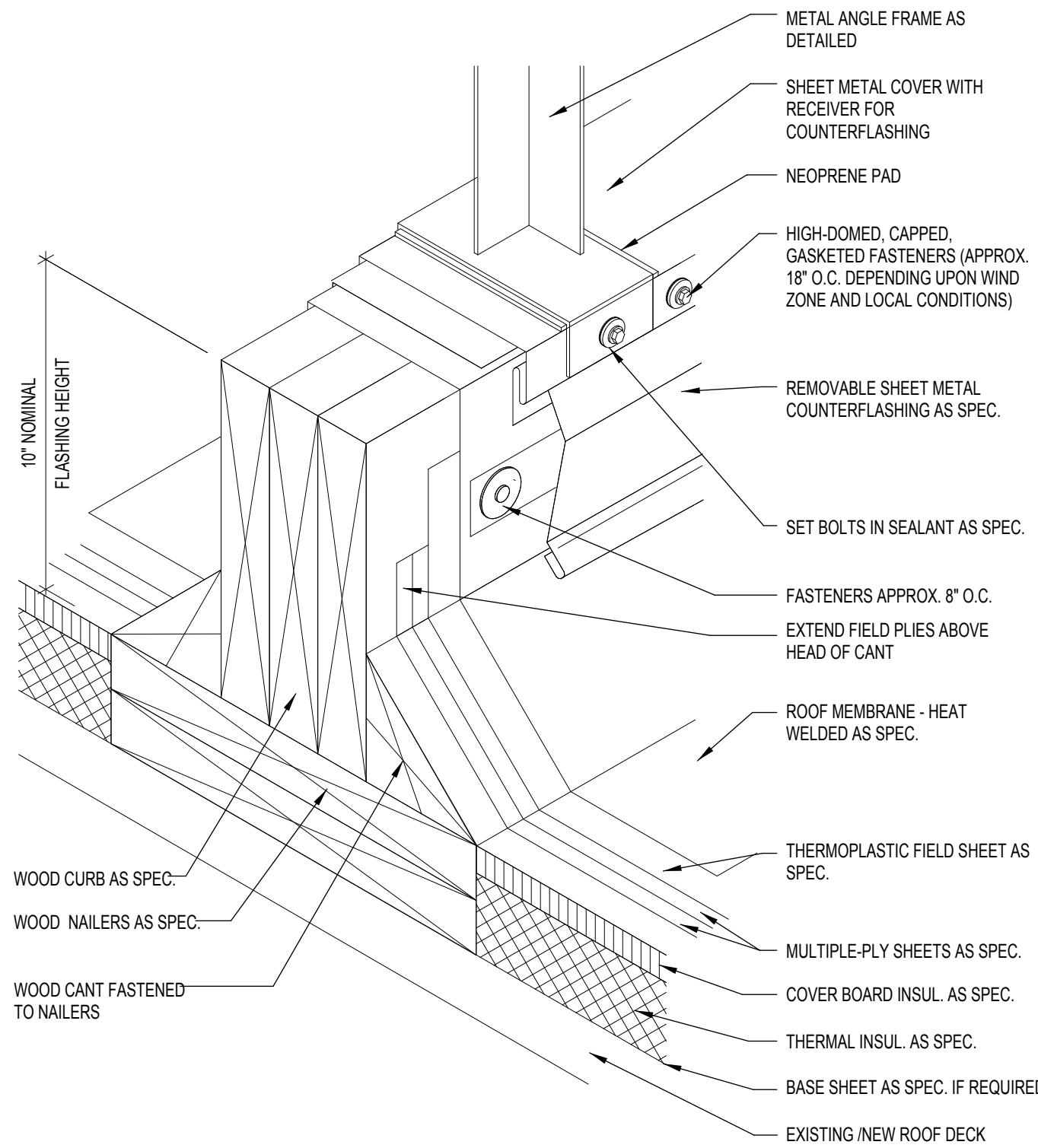
A3.1



1 LOW PARAPET WALL
SCALE: 3" = 1'-0"

2 TALL PARAPET WALL
SCALE: 3" = 1'-0"

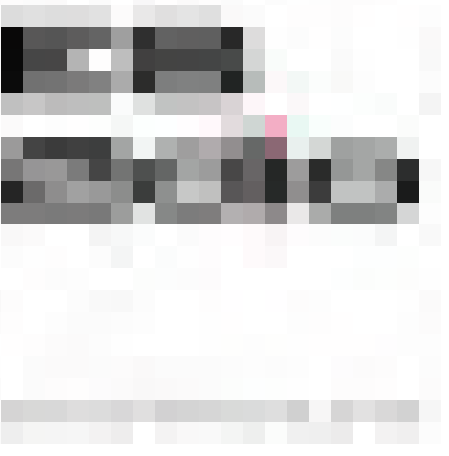
3 HOT STACK FLASHING
SCALE: 3" = 1'-0"



4 EQUIPMENT SUPPORT CURB DETAIL
SCALE: 3" = 1'-0"

5 VENT STACK FLASHING
SCALE: 3" = 1'-0"

6 PITCH PAN FLASHING
SCALE: 3" = 1'-0"



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Sheet No.	

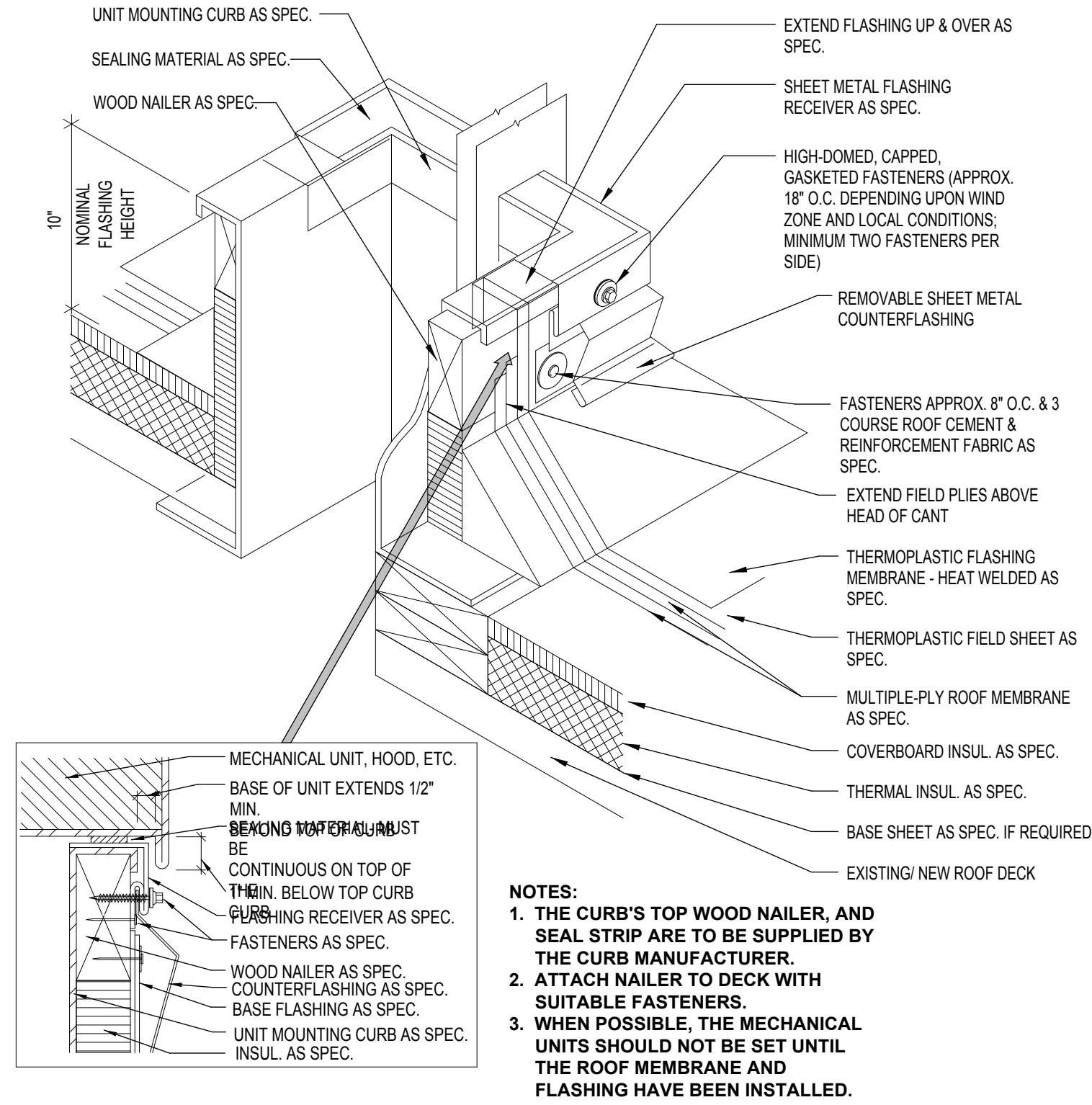
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1 PIPE BOX FLASHING

SCALE: 3" = 1'-0"

2 CURB FLASHING

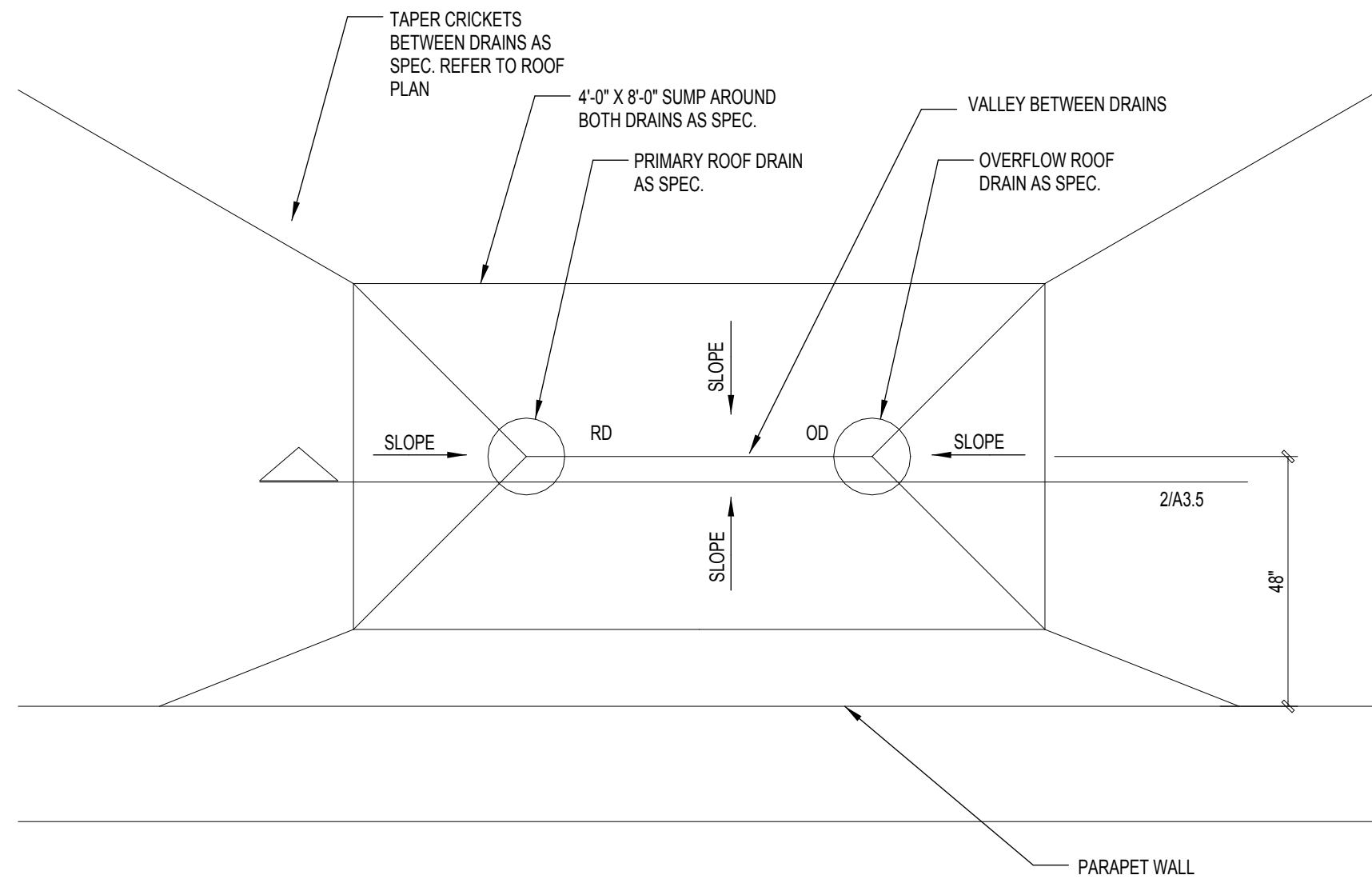
SCALE: 3" = 1'-0"



- NOTES:
1. THE CURB'S TOP WOOD NAILER, AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
 2. ATTACH NAILER TO DECK WITH SUITABLE FASTENERS.
 3. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.

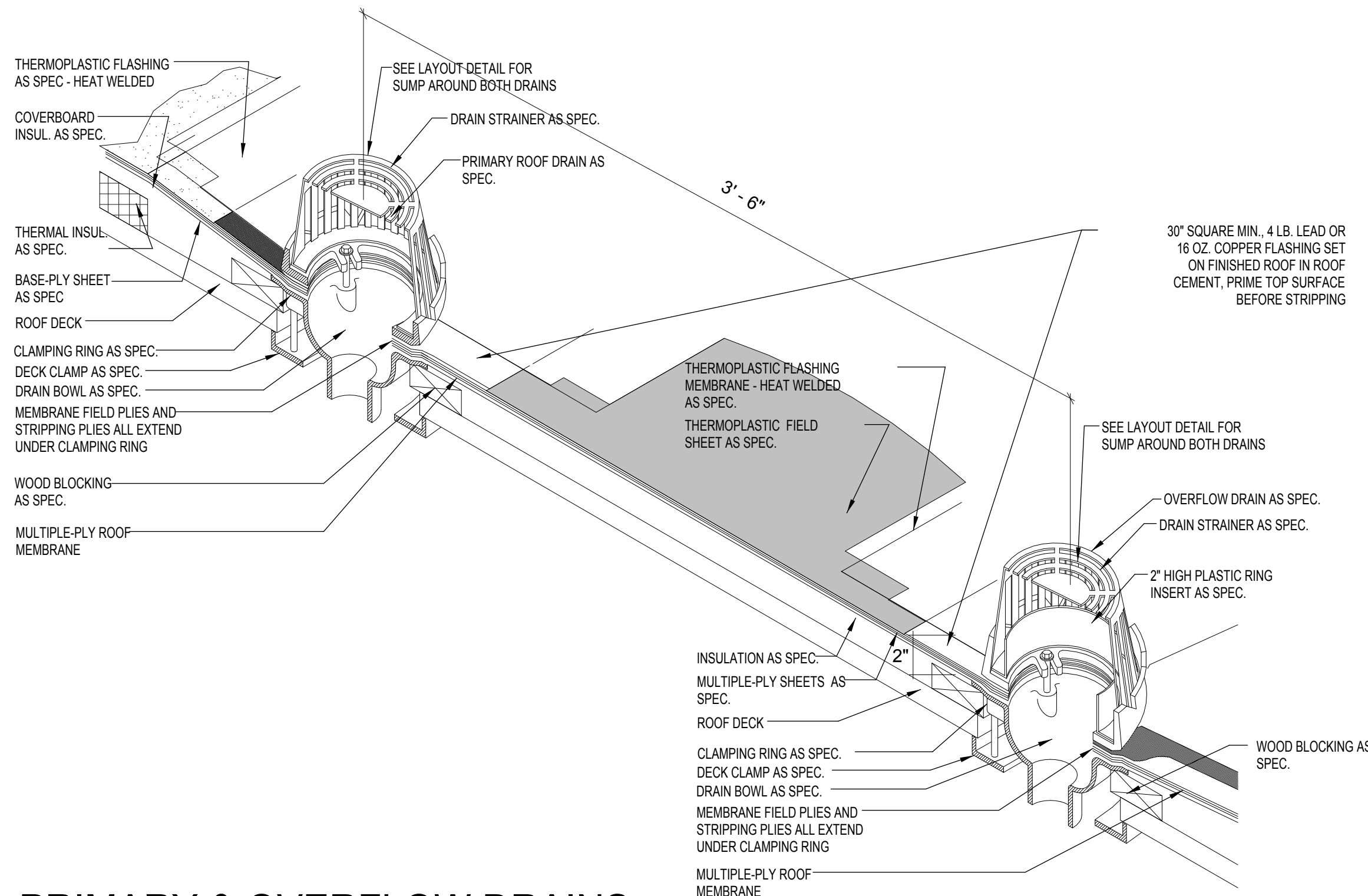
3 PRIMARY & OVERFLOW PLAN DTL.

SCALE: 3" = 1'-0"



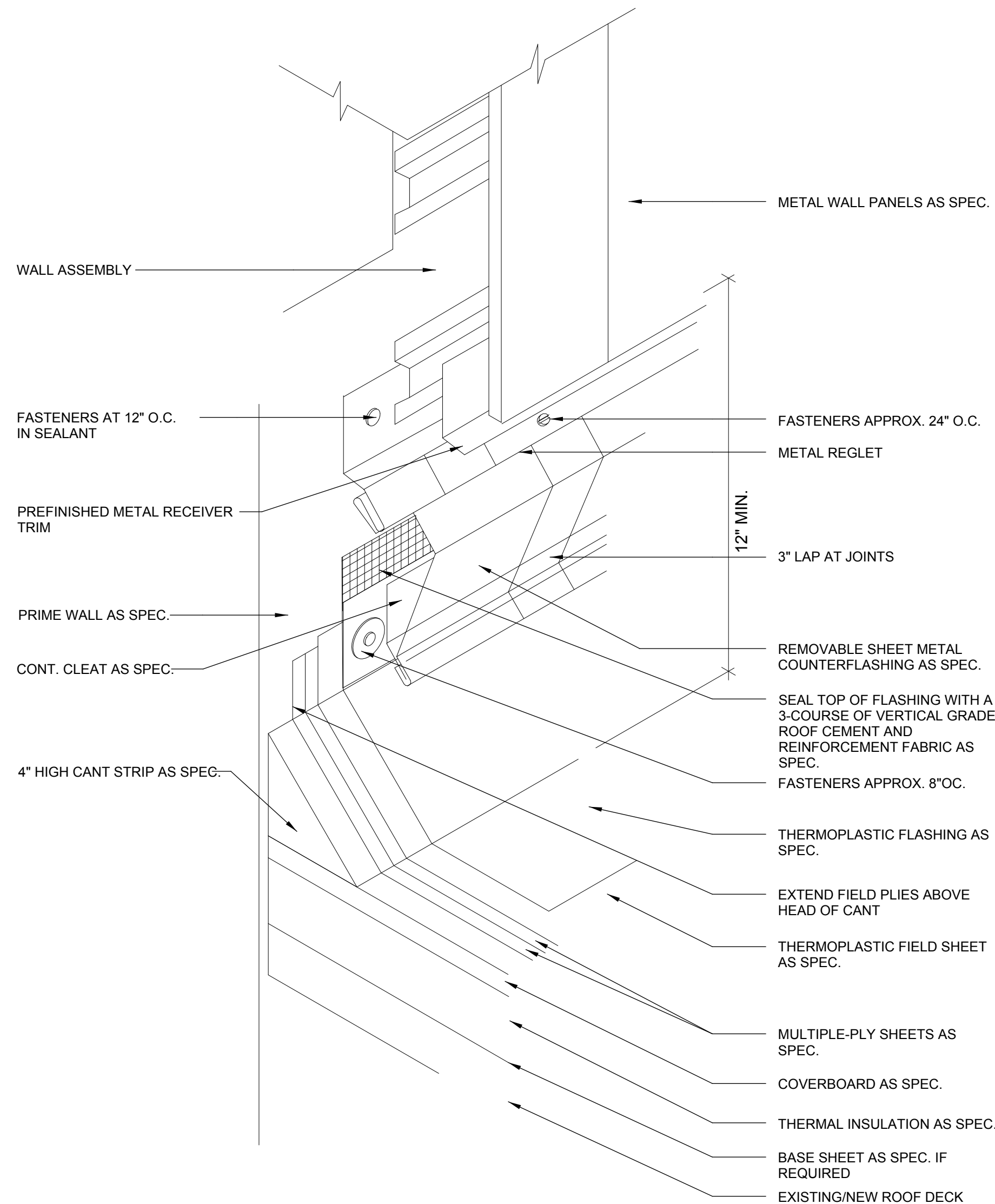
4 PRIMARY & OVERFLOW DRAINS

SCALE: 3" = 1'-0"



5 METAL PANEL & COUNTER FLASHING1

SCALE: 3" = 1'-0"



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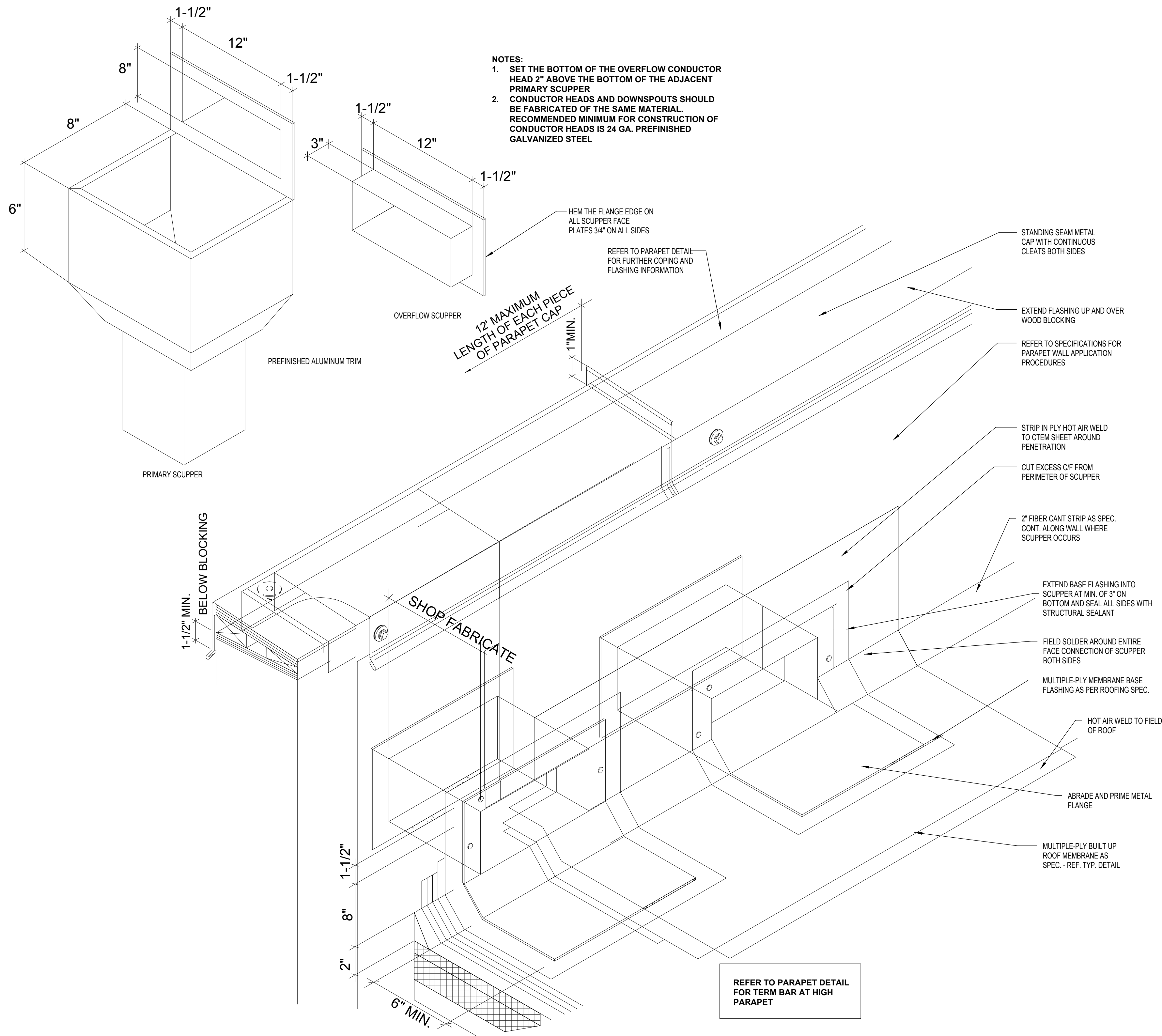
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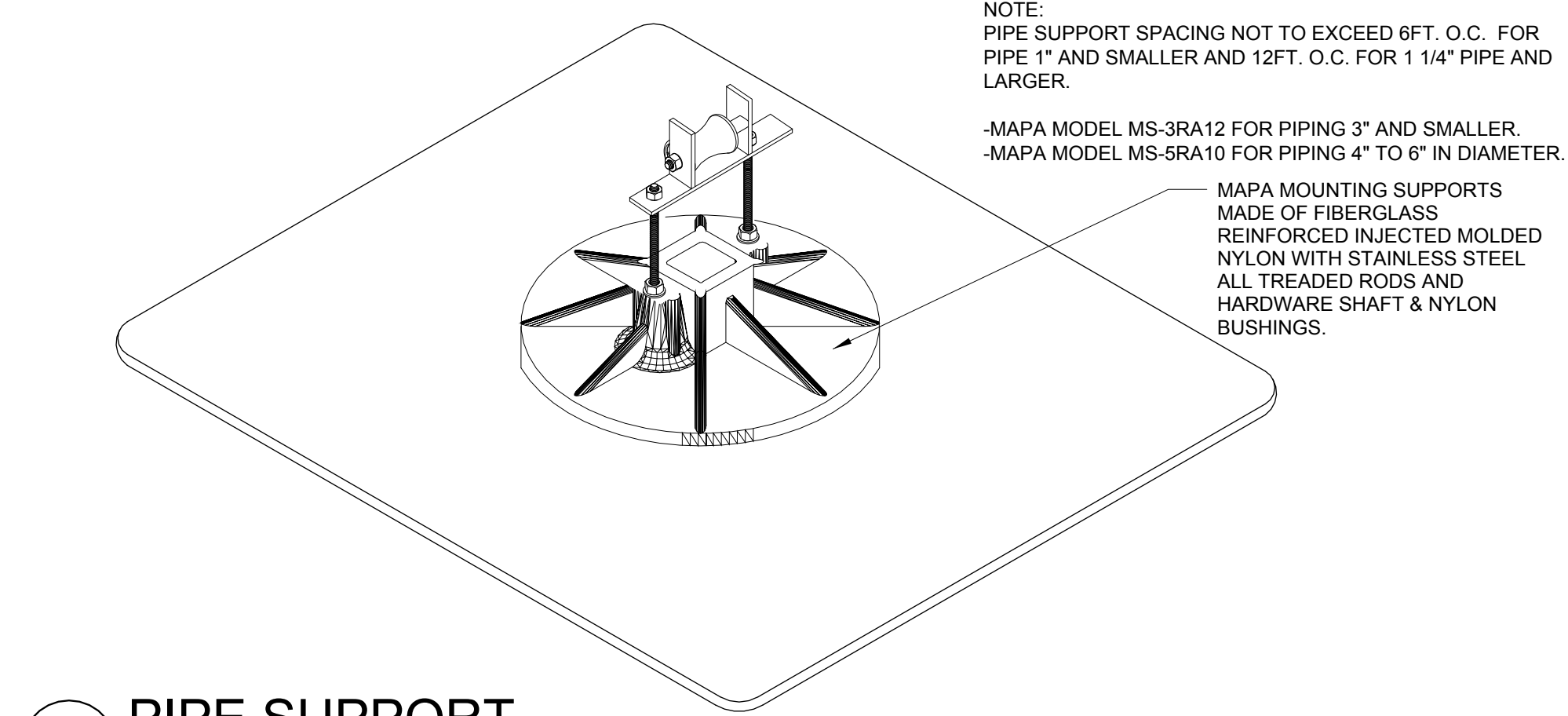
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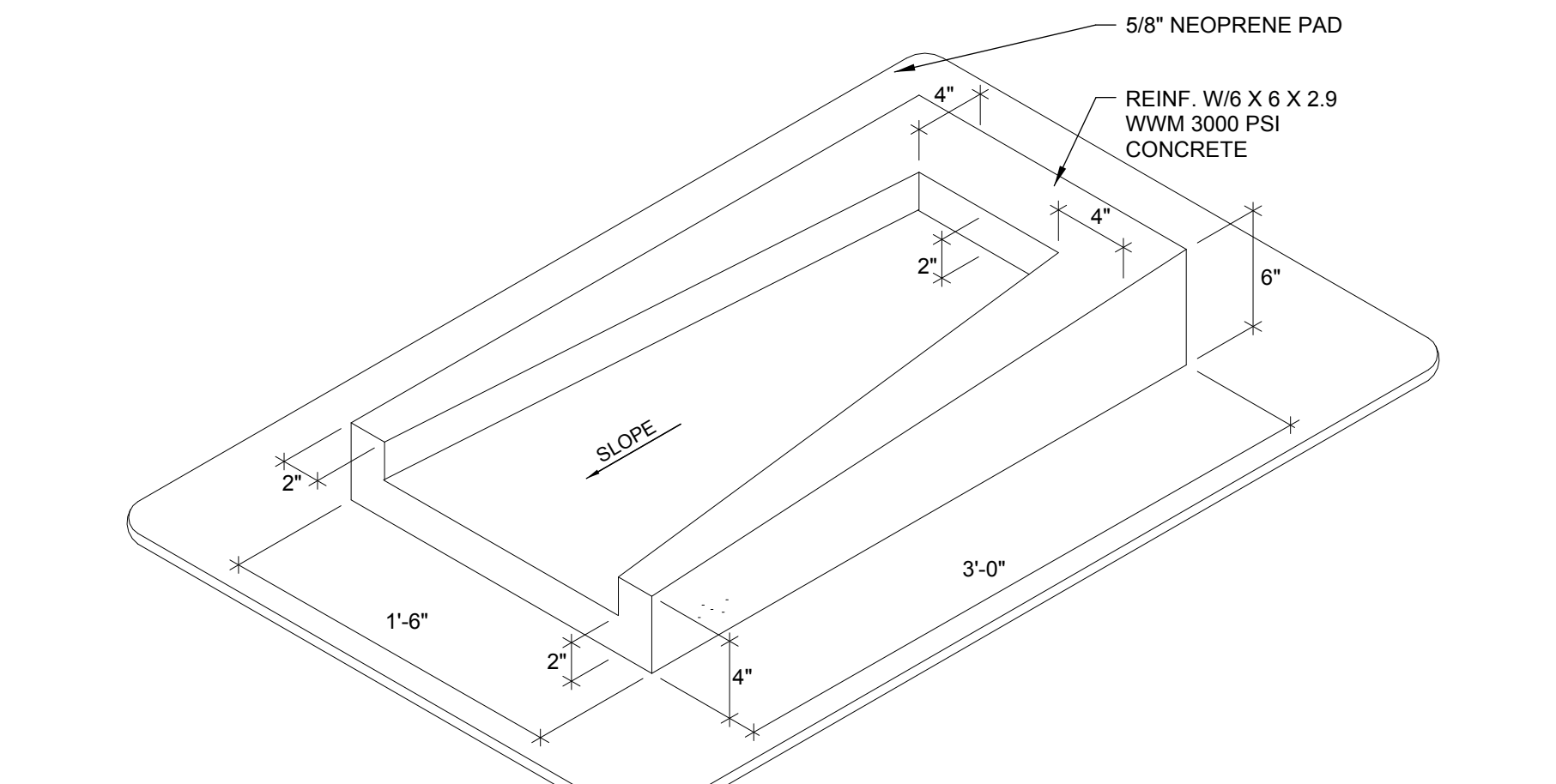
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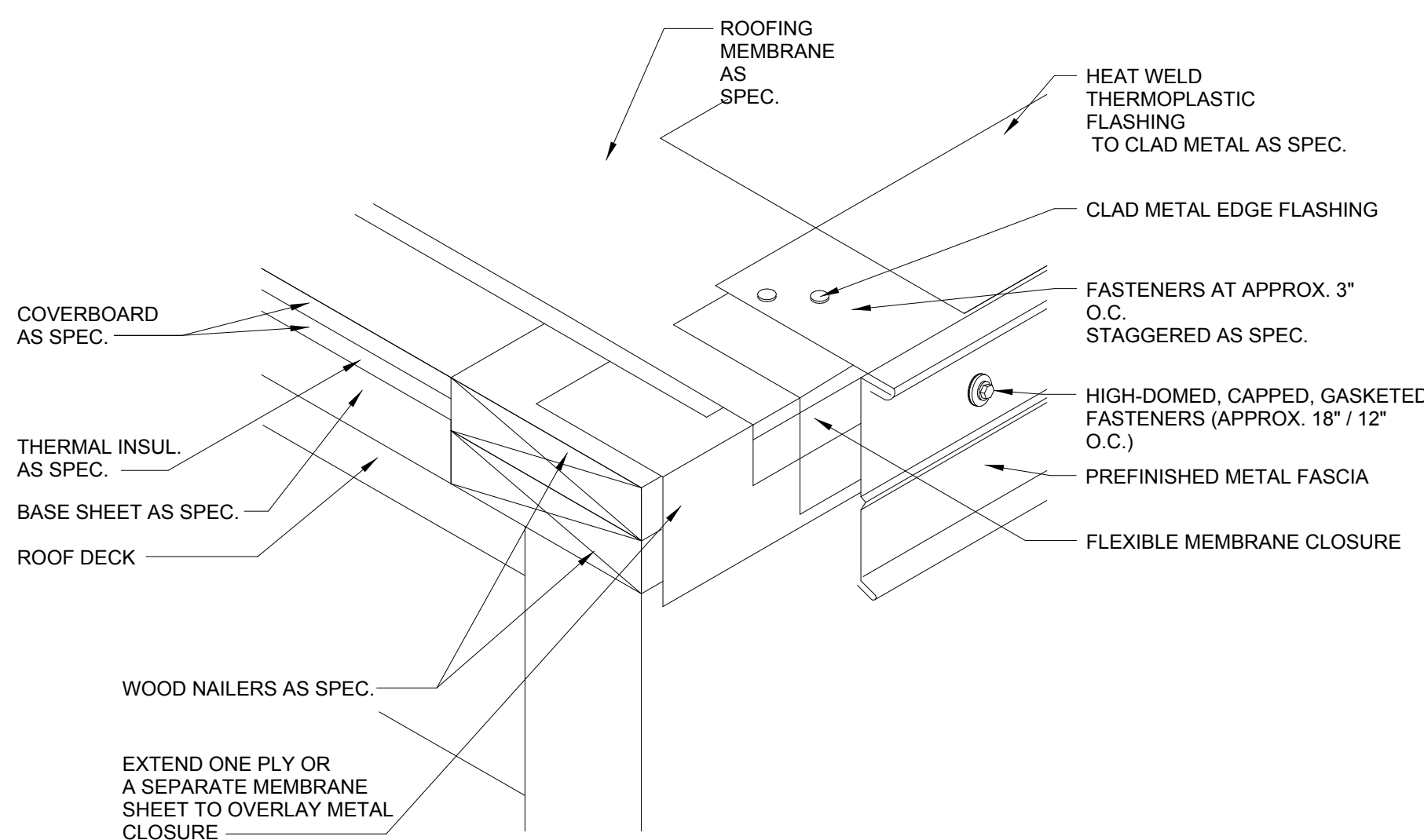
1 PRIMARY & OVERFLOW THROUGH WALL SCUPPER
SCALE: 3" = 1'-0"



2 PIPE SUPPORT
SCALE: 3" = 1'-0"



3 SPLASH BLOCK DETAIL
SCALE: 3" = 1'-0"



4 ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



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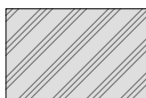
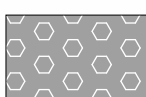
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ROOF DETAILS

Sheet No.

A3.4



- # MATERIAL LEGEND
- | | | |
|---|----|---------------|
|  | M1 | METAL PANEL 1 |
|  | M2 | METAL PANEL 2 |
|  | M3 | METAL PANEL 3 |
|  | M4 | METAL PANEL 4 |
- *FLOORING FINISH/ COLOR BY OWNER



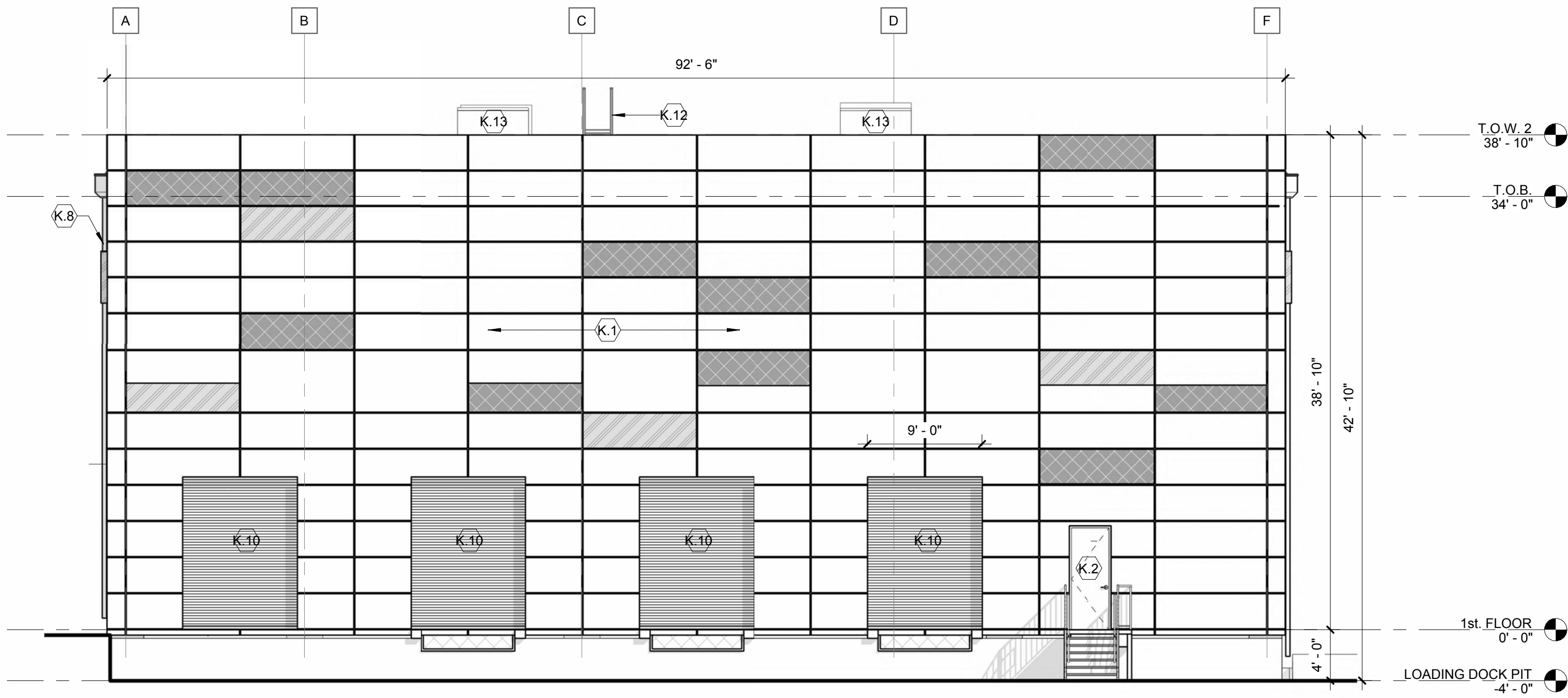
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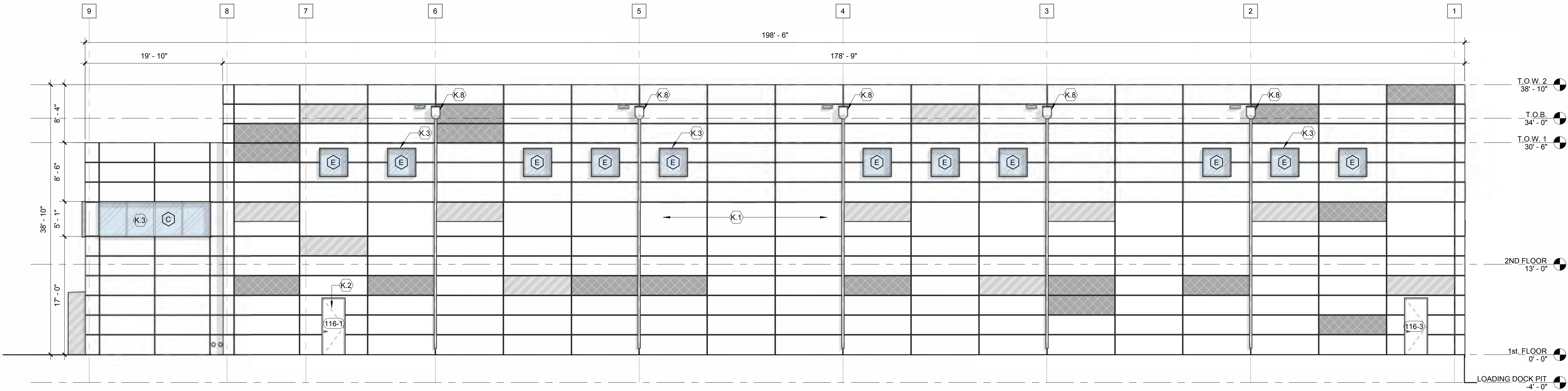
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A4.1



1 EXTERIOR ELEVATION - WEST
SCALE: 1/8" = 1'-0"

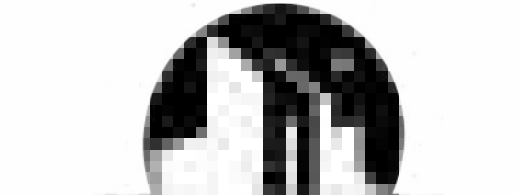


2 EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATIONS KEY NOTES	
K.1	ELEMENT WALL PANEL, INTERLOCKING SEAMS WITH CONCEALED CLIPS AS MANUFACTURED BY IMETCO OR APPROVED EQUAL
K.2	DOOR AS SCHEDULED
K.3	STOREFRONT AS SCHEDULED
K.4	LIGHT FIXTURE, SEE ELEC. DRAWINGS
K.5	PRE-FINISHED METAL COPING, SEE ROOF PLANS
K.6	METAL STOREFRONT TRIM
K.7	PRE-FINISHED METAL COPING, SEE ROOF PLAN
K.8	PRE-FINISHED METAL DOWNSPOUT
K.9	METAL GATE
K.10	DOOR OVERHEAD
K.11	METAL STAIR
K.12	METAL LADDER
K.13	MECH EQUIPMENT, SEE MECH. DRAWINGS



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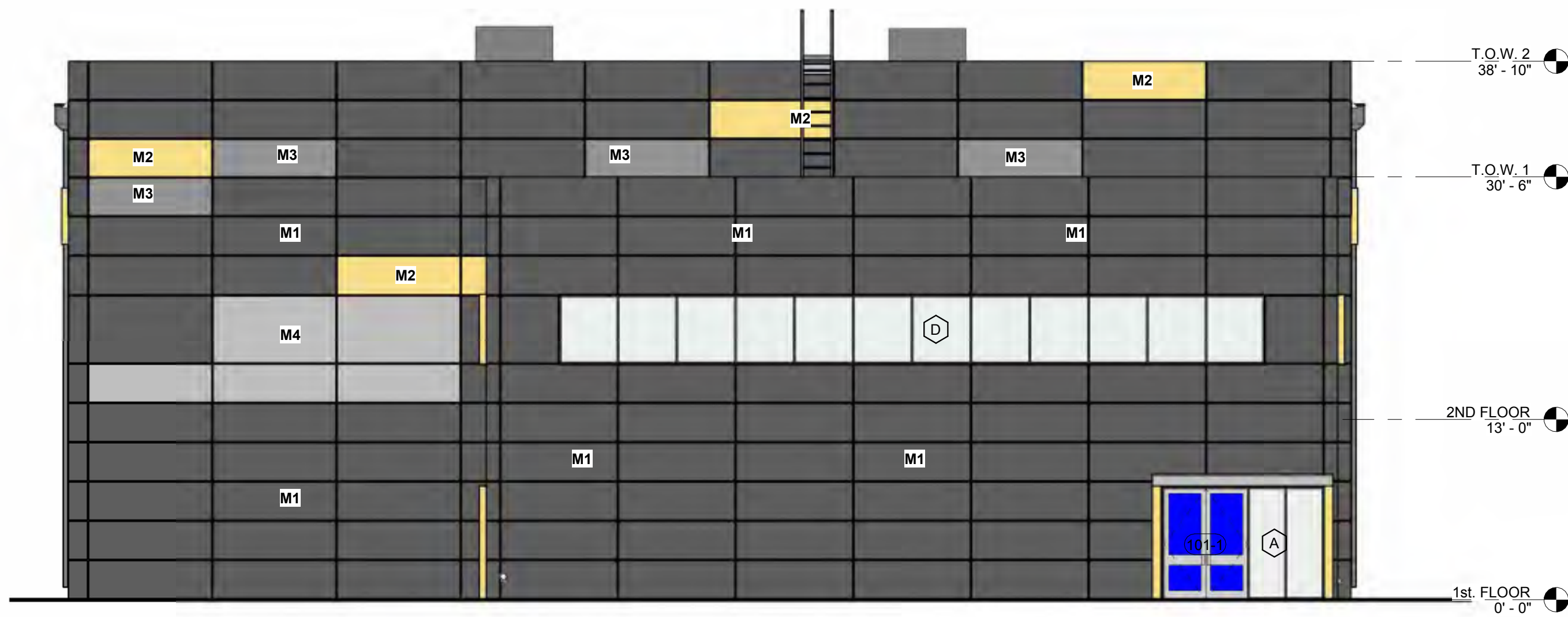
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Sheet No.	



1 EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"



2 EXTERIOR ELEVATION - WEST
SCALE: 1/8" = 1'-0"

MATERIAL LEGEND

M1

METAL PANEL 1

M2

METAL PANEL 2

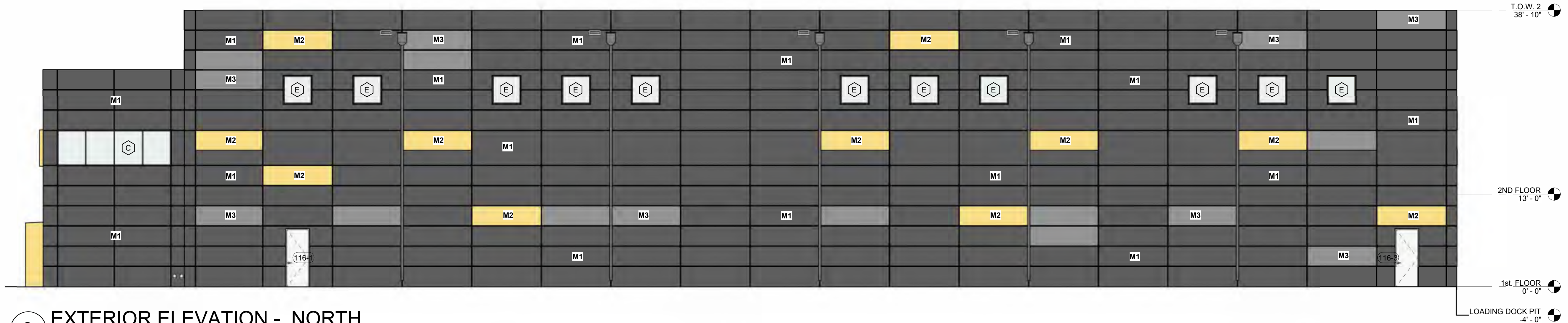
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METAL PANEL 3

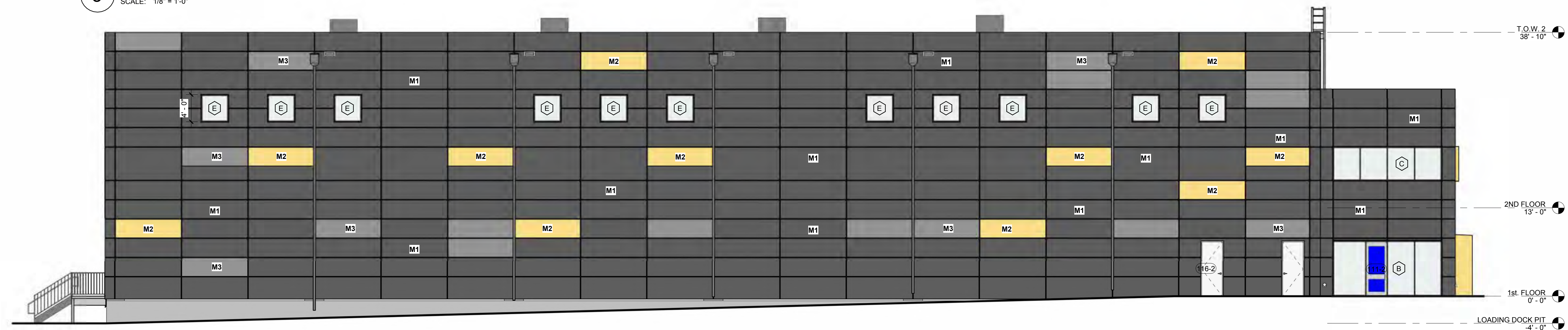
M4

METAL PANEL 4

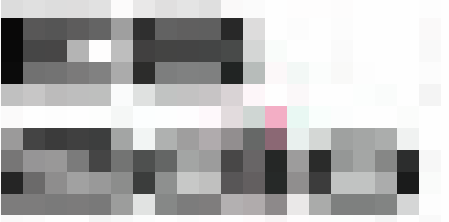
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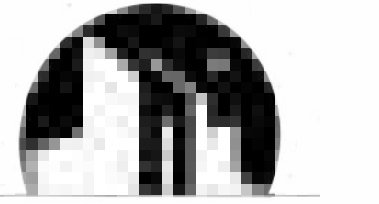
3 EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0"



4 EXTERIOR ELEVATION - SOUTH
SCALE: 1/8" = 1'-0"



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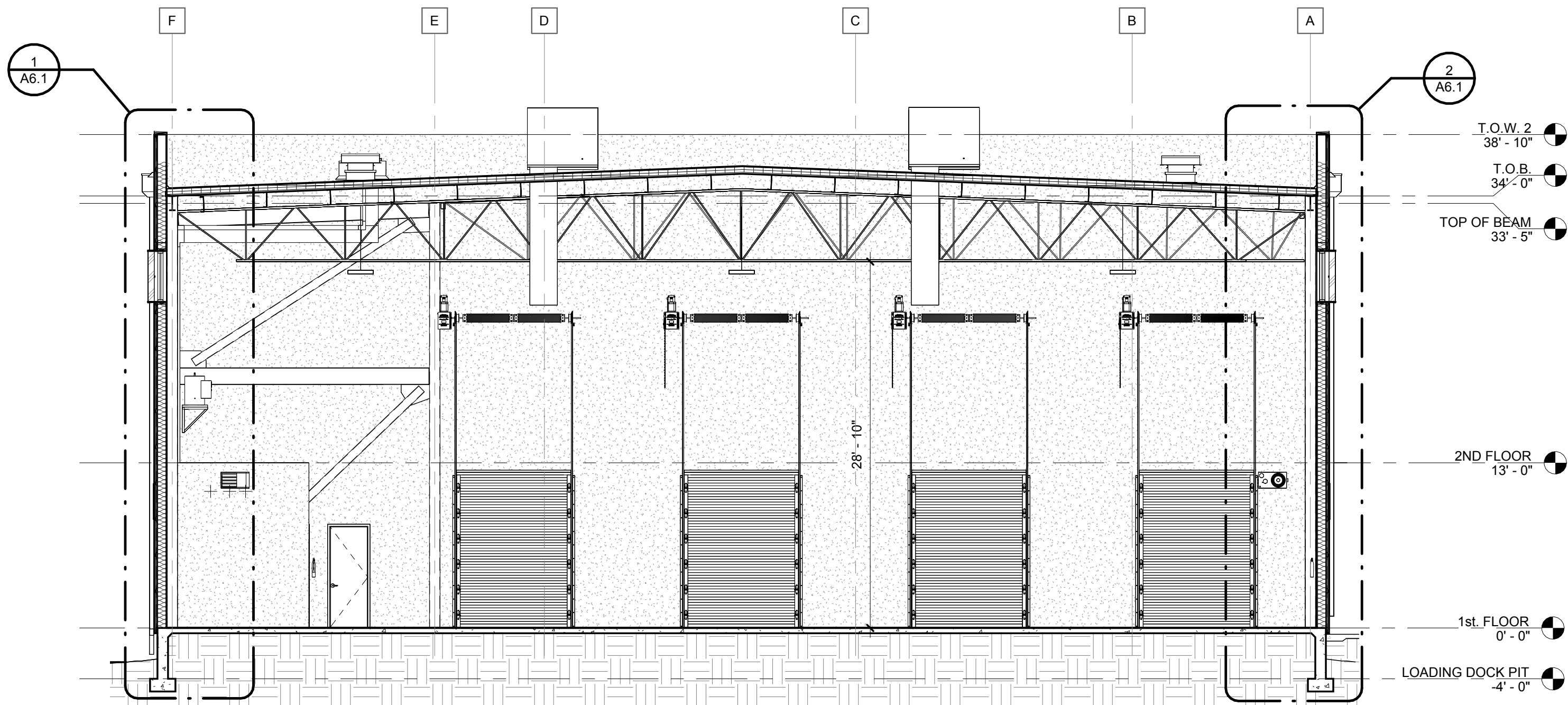
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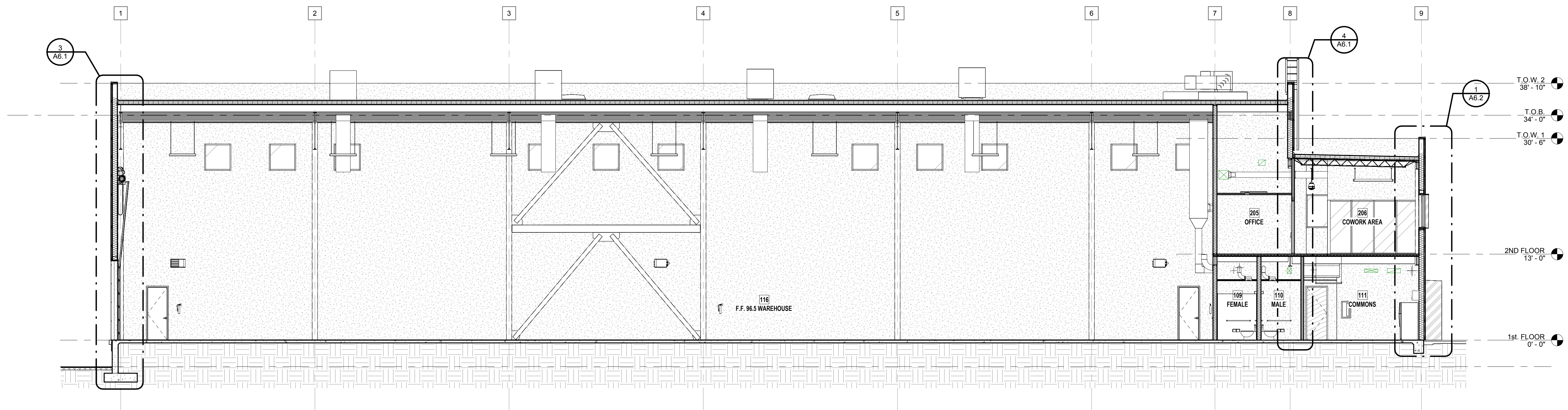
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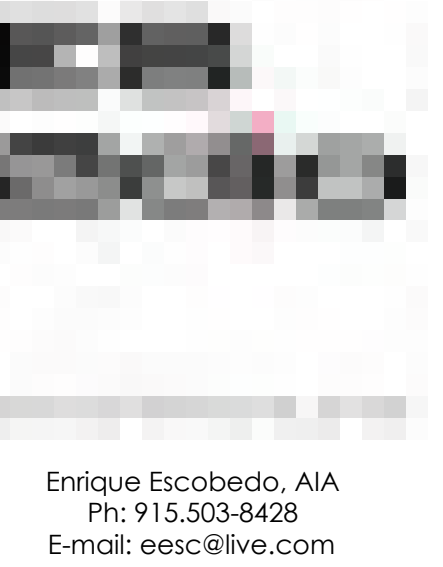
A4.3



1 BUILDING SECTION "B"
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION "A"
SCALE: 1/8" = 1'-0"



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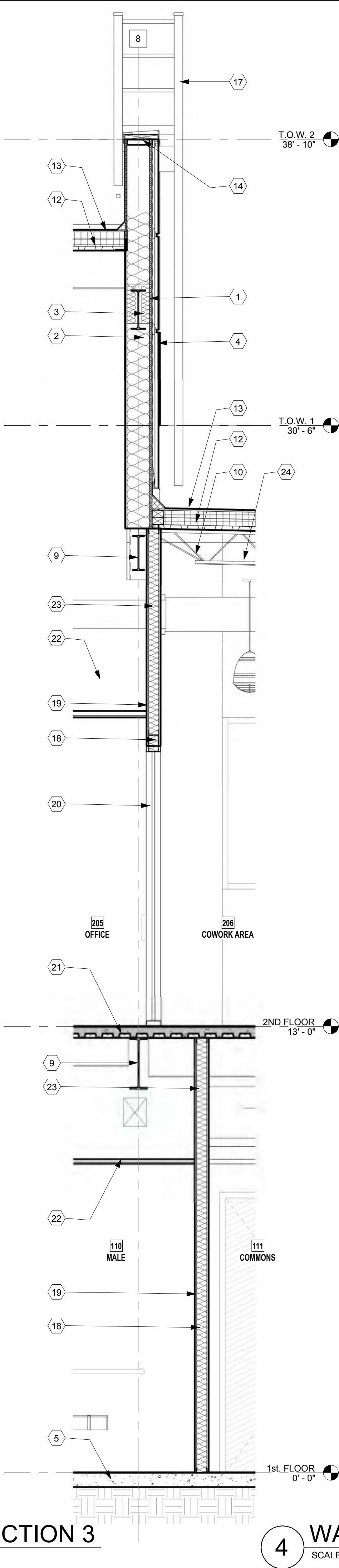
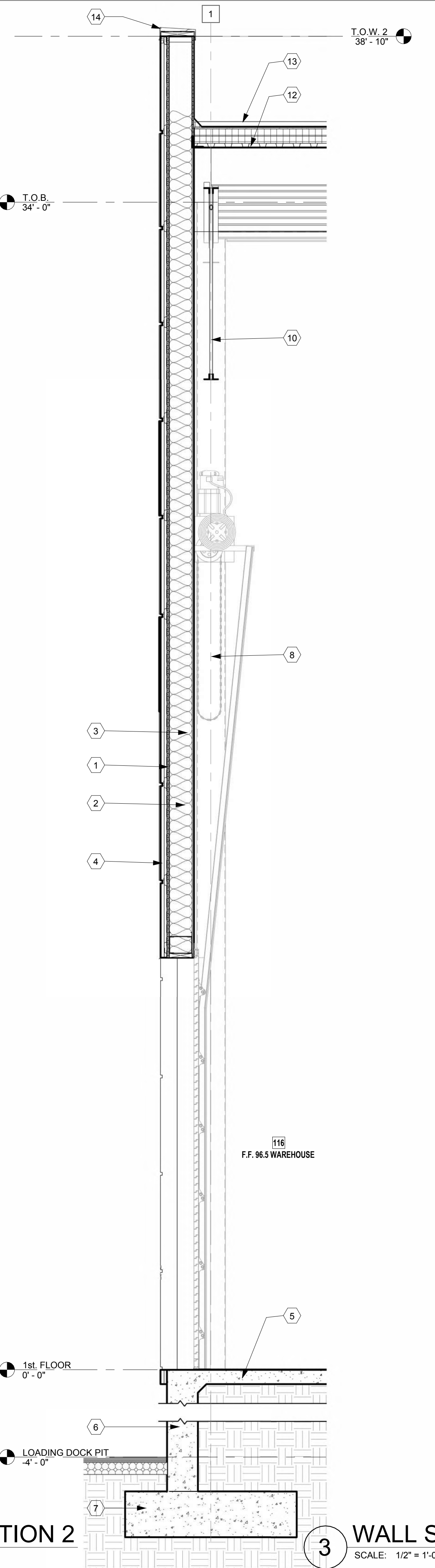
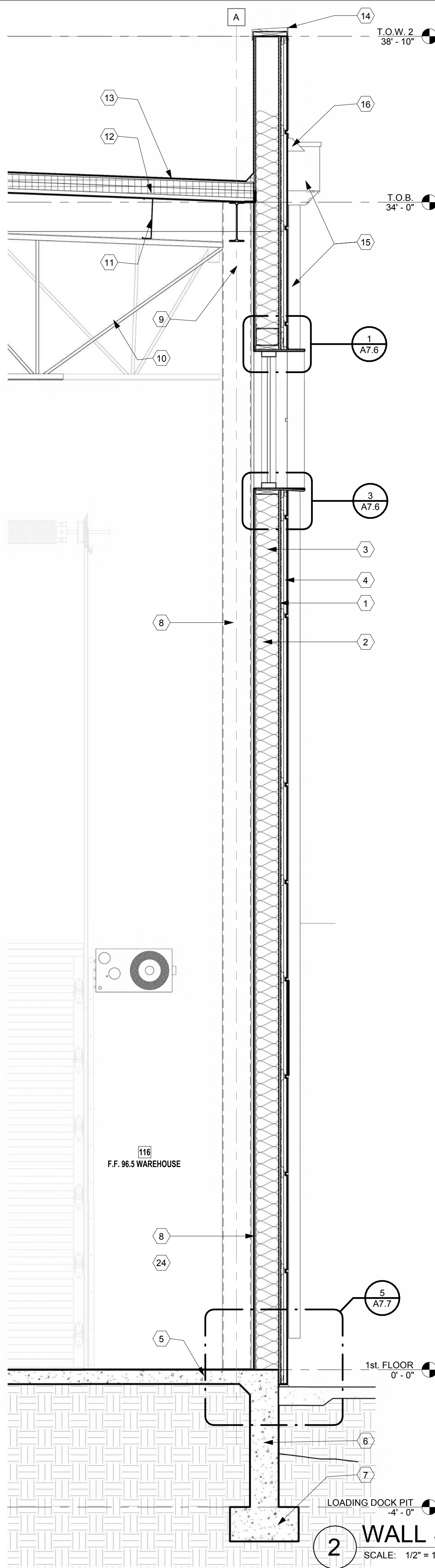
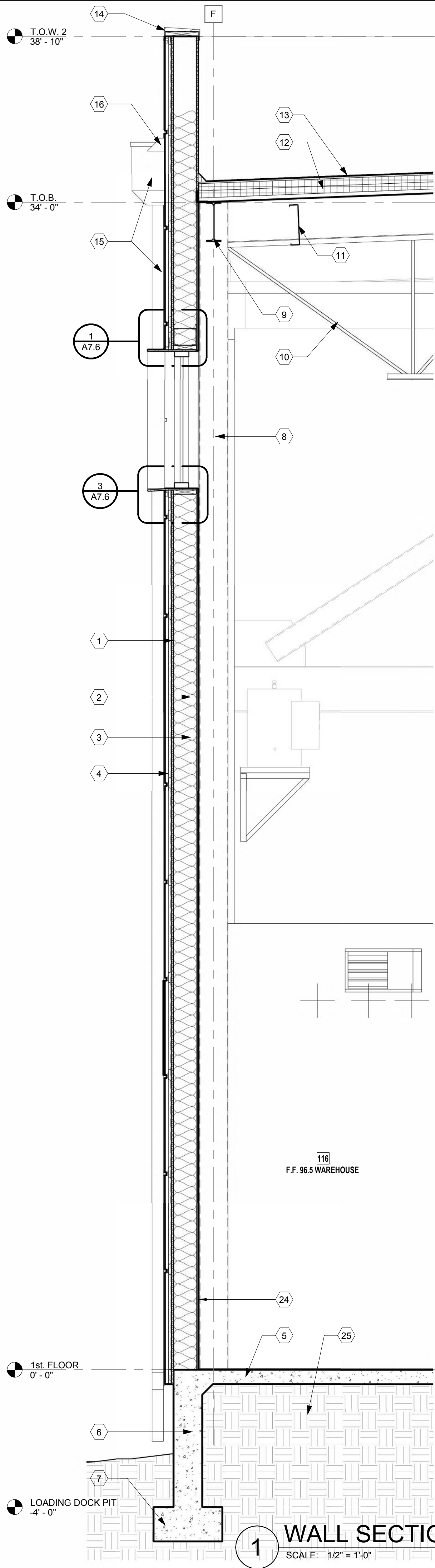
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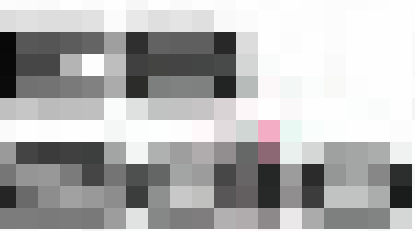
BUILDING SECTIONS

Sheet No.

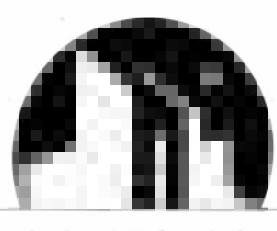
A5.1



WALL SECTIONS KEYED NOTES	
1	3/4" EXTERIOR GRADE PLYWOOD WITH FLUID APPLIED WATER AND AIR CONTROL MEMBRANE
2	8" METAL STUDS @ 16" O.C.
3	R-21 HIGH DENSITY RIGID FIBERGLASS INSULATION
4	ELEMENT WALL PANEL SYSTEM BY IMETCO, BASIS OF DESIGN, OR APPROVED EQUAL
5	CONCRETE SLAB - REFER TO STRUCTURAL DRAWINGS
6	CONCRETE RETAINING WALL - REFER TO STRUCTURAL DRAWINGS
7	CONCRETE FOOTING - REFER TO STRUCTURAL DRAWINGS
8	STEEL COLUMN - REFER TO STRUCTURAL DRAWINGS
9	STEEL BEAM - REFER TO STRUCTURAL DRAWINGS
10	STEEL JOISTS - REFER TO STRUCTURAL DRAWINGS
11	STEEL PURLINS - REFER TO STRUCTURAL DRAWINGS
12	METAL DECK - REFER TO STRUCTURAL DRAWINGS
13	ROOFING ASSEMBLY - 80 MIL SINGLE PLY OVER 1/2" HD COVER BOARD OVER 2 LAYERS OF 2.6 POLYISOCYANURATE (R-30 MIN.) OVER VENTED BASE SHEET
14	PRE-FINISHED STANDING SEAM METAL PARAPET COPING CAP WITH CONT. CLEAT ON THE OUTSIDE - REFER TO METAL PANEL SYSTEM PARAPET AND ROOFING DETAILS
15	PRE-FINISHED METAL CONDUCTOR HEAD AND DOWNSPOUT LEADER
16	PRE-FINISHED METAL ROOF OVERFLOW SCUPPER
17	ALUMINUM ROOF ACCESS LADDER - 503 ACCESS LADDER WITH PLATFORM AND RETURN AS MANUFACTURED BY O'KEEFE'S INC (BASIS OF DESIGN) OR APPROVED EQUAL
18	3/8" METAL STUDS @ 16" O.C.
19	5/8" GYPSUM BOARD EACH SIDE
20	WINDOW AS SCHEDULED
21	CONCRETE SLAB OVER METAL DECK - REFER TO STRUCTURAL DRAWINGS
22	CEILING FINISH AS SCHEDULED
23	PROVIDE R-13 SOUND ATTENUATION PANELS
24	3/4" PLYWOOD WAINSCOT INSTALLED UP TO 8" HIGH - AT WAREHOUSE AREA EXTERIOR WALLS
25	COMPACTED ENGINEER FILL



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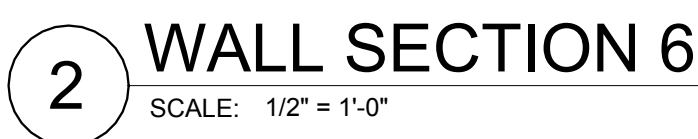
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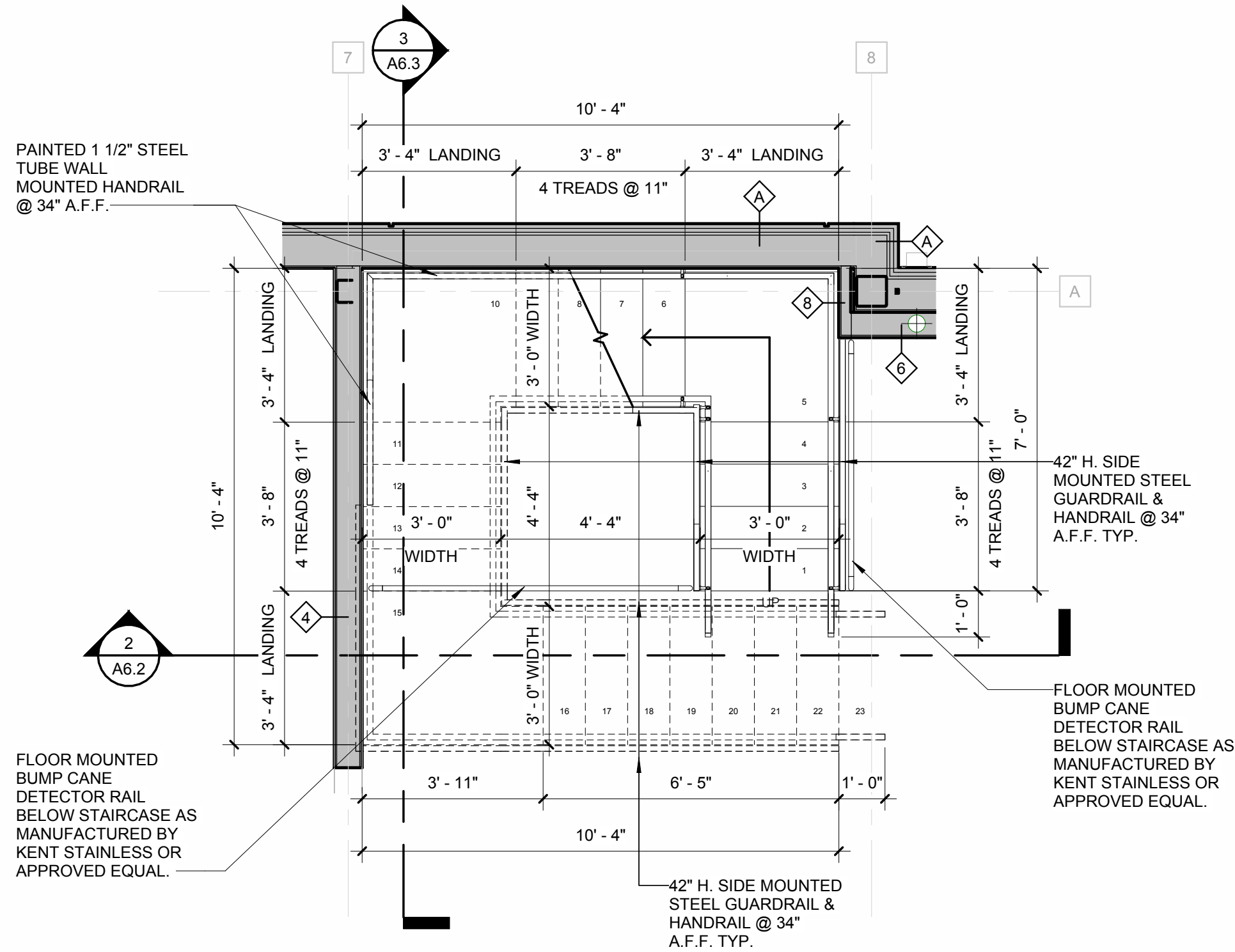
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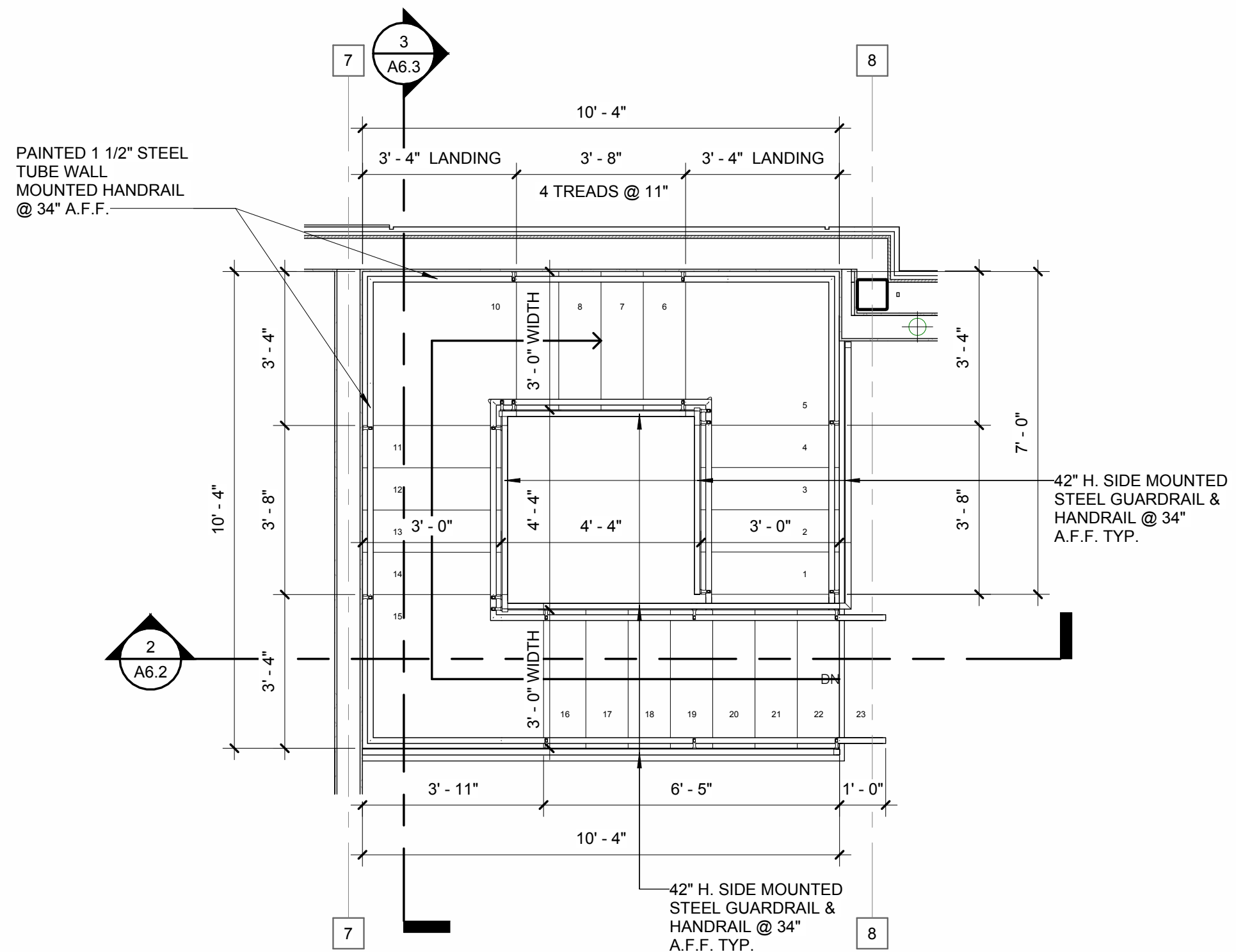
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Project No. 2407
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Sheet No.



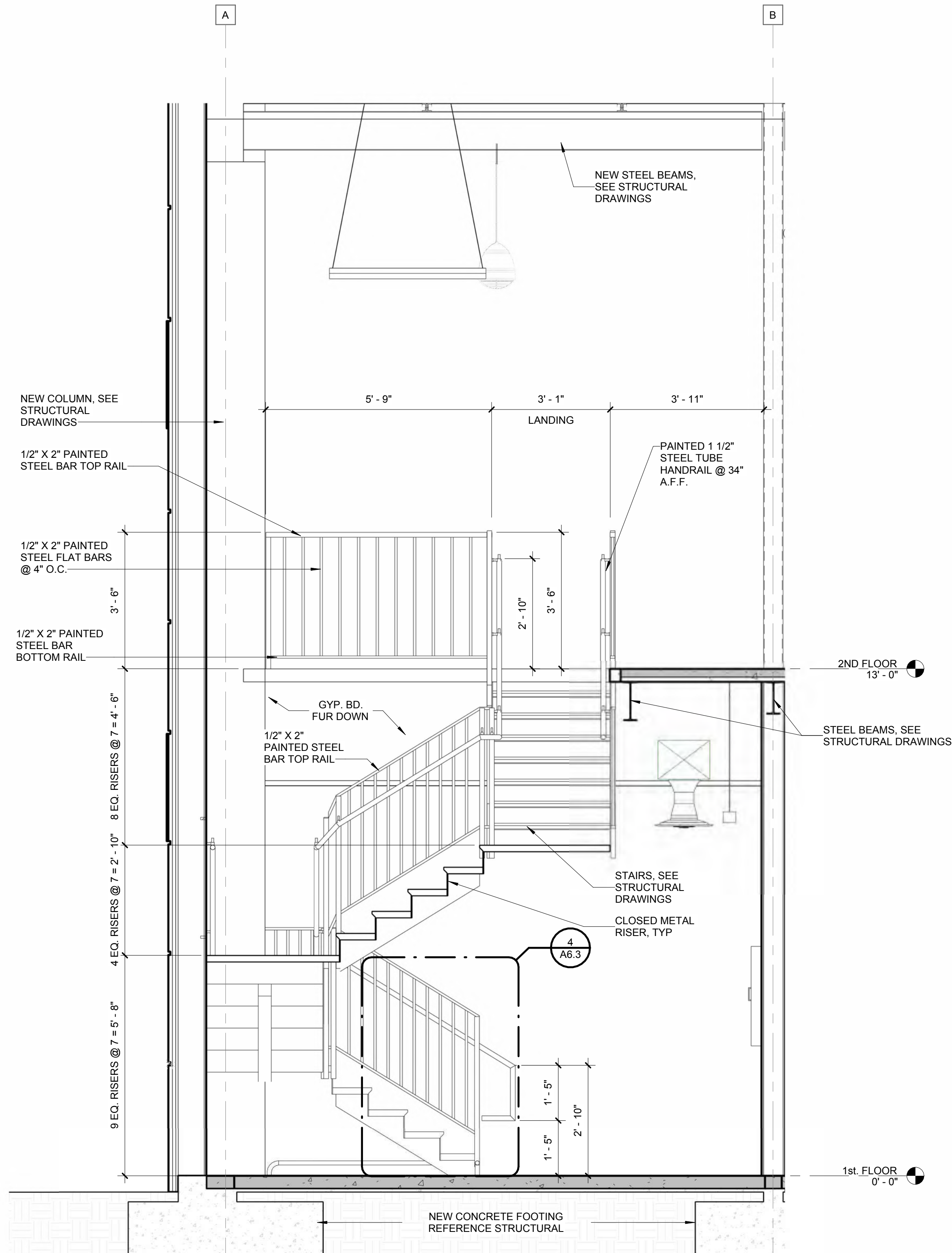
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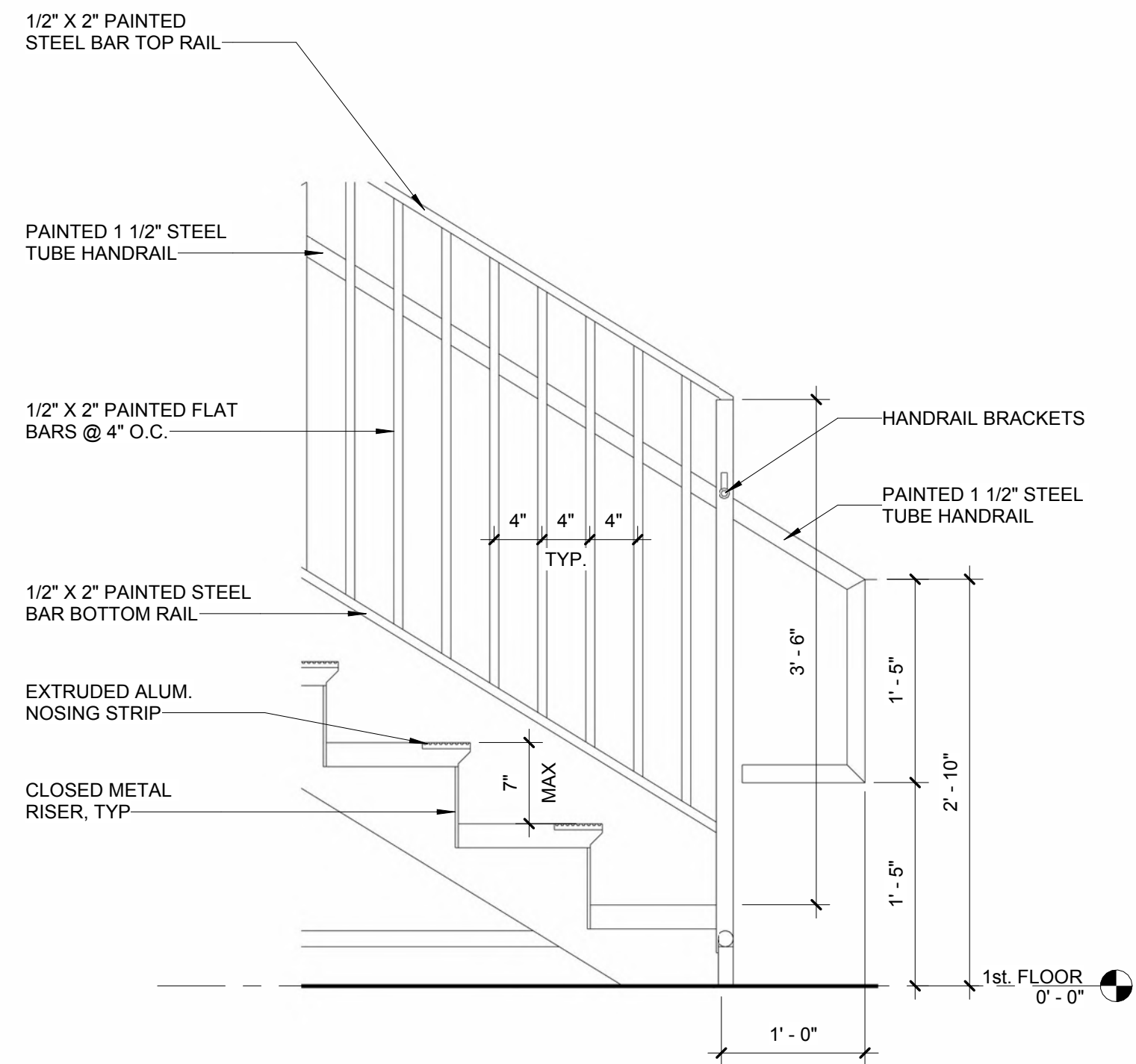
1 1ST FLOOR STAIRCASE ENLARGED PLAN
SCALE: 3/8" = 1'-0"



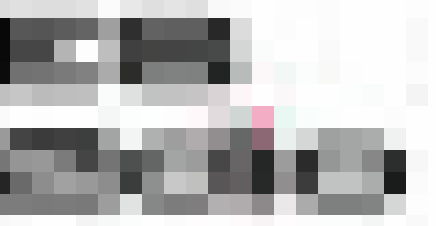
2 2ND FLOOR STAIRCASE ENLARGED PLAN
SCALE: 3/8" = 1'-0"



3 STAIR SECTION
SCALE: 1/2" = 1'-0"



4 STAIR DETAIL
SCALE: 1" = 1'-0"



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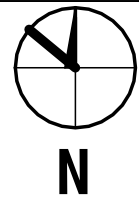
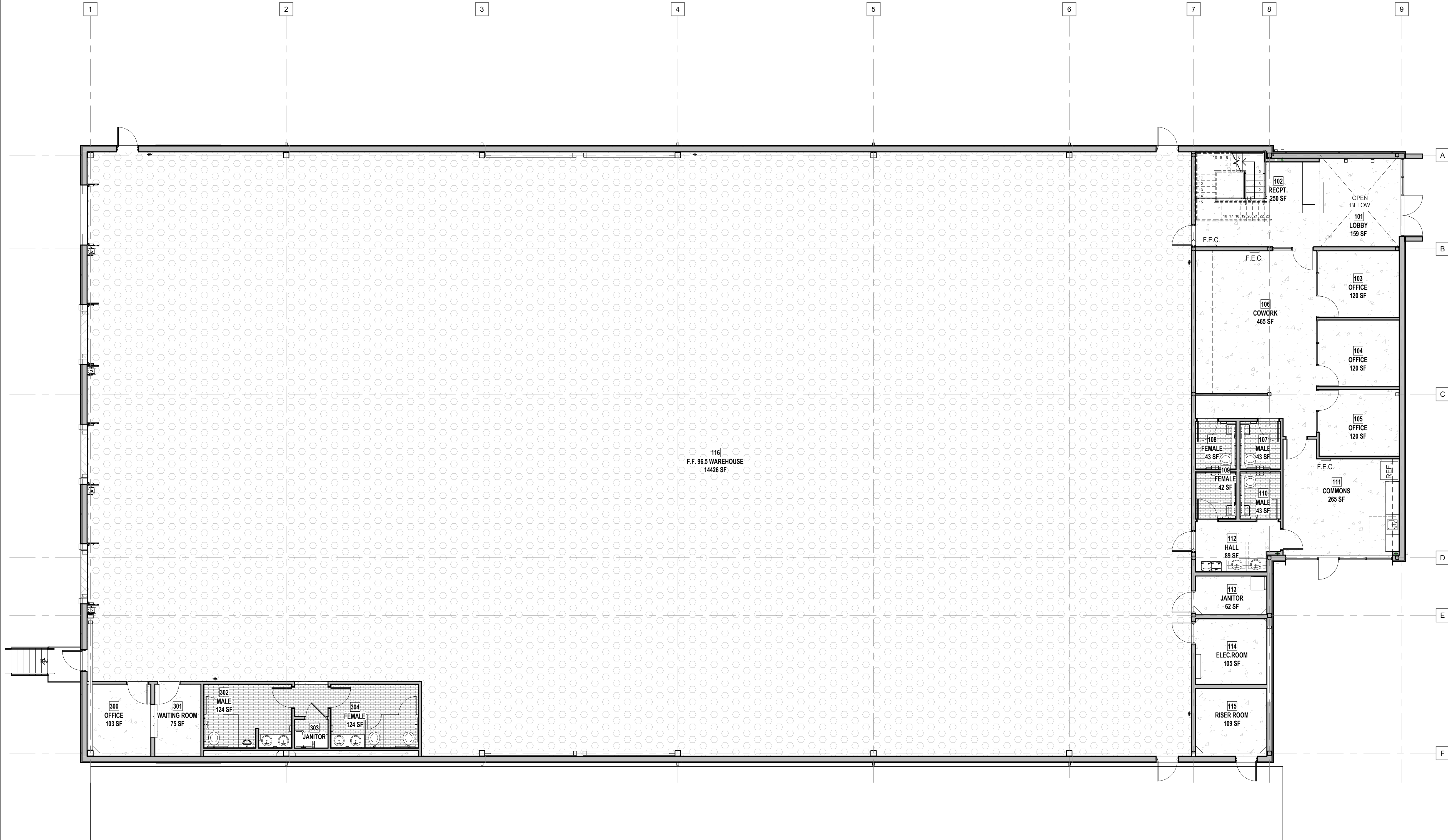
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ENLARGED STAIR PLAN

Sheet No.

A6.3



1 OVERALL 1ST. FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

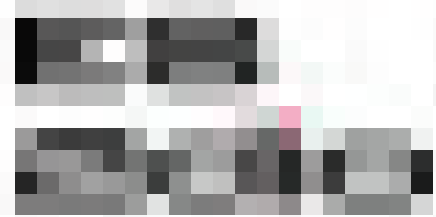
FINISHES GENERAL NOTES

1. ALL PAINTS AND WALL COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS AND RECOMMENDATIONS FOR THE PARTICULAR SPACE.
2. SAMPLES OF FINISH COLORS SHALL BE FIELD APPLIED FOR APPROVAL BY ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
3. ALL WALLS SHALL BE PROPERLY SPACKLED, SANDED, AND PRIMED FOR PAINTING AND/OR WALL COVERINGS.
4. METAL SURFACES SHALL BE SANDED SMOOTH PRIOR TO PAINTING.
5. FLOOR MATERIAL TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
6. CONTRACTOR SHALL COORDINATE FINISHES WITH REFLECTED CEILING PLAN, INTERIOR ELEVATIONS, AND FLOOR FINISHES PLAN.
7. TILE INSTALLATION: CONTRACTOR SHALL LAY OUT FLOOR, BASE AND REVIEW WITH ARCHITECT PRIOR TO INSTALLATION.
8. FINISH EXPOSED EDGES OF PORCELAIN TILE WITH SEALER.
9. PROVIDE FLOOR TRANSITION STRIPS AT: CARPET TO VCT, CARPET TO CERAMIC TILE & CONCRETE TO CERAMIC TILE OR CARPET.
10. SEE REFLECTED CEILING PLAN, INTERIOR ELEVATIONS AND FLOOR FINISHES PLAN FOR ADDITIONAL FINISHES INFORMATION NOT SHOWN ON THIS SHEET.
11. CONTRACTOR TO COORDINATE FINISHES PATTERNS WITH ARCHITECT AND OWNER.

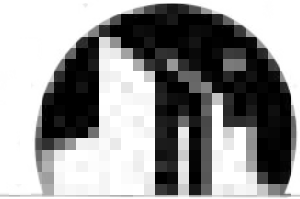
FLOOR LEGEND

- | | | |
|--|----|--|
| | F1 | POLISHED CONCRETE
ALL WAREHOUSE/COMMON AREA TO HAVE
POLISHED CONCRETE, LEVEL 3-MEDIUM
GLOSS FINISH. |
| | F2 | CERAMIC TILE |
| | F3 | EPOXY FLOORING FINISH |

*FLOORING FINISH/ COLOR BY OWNER



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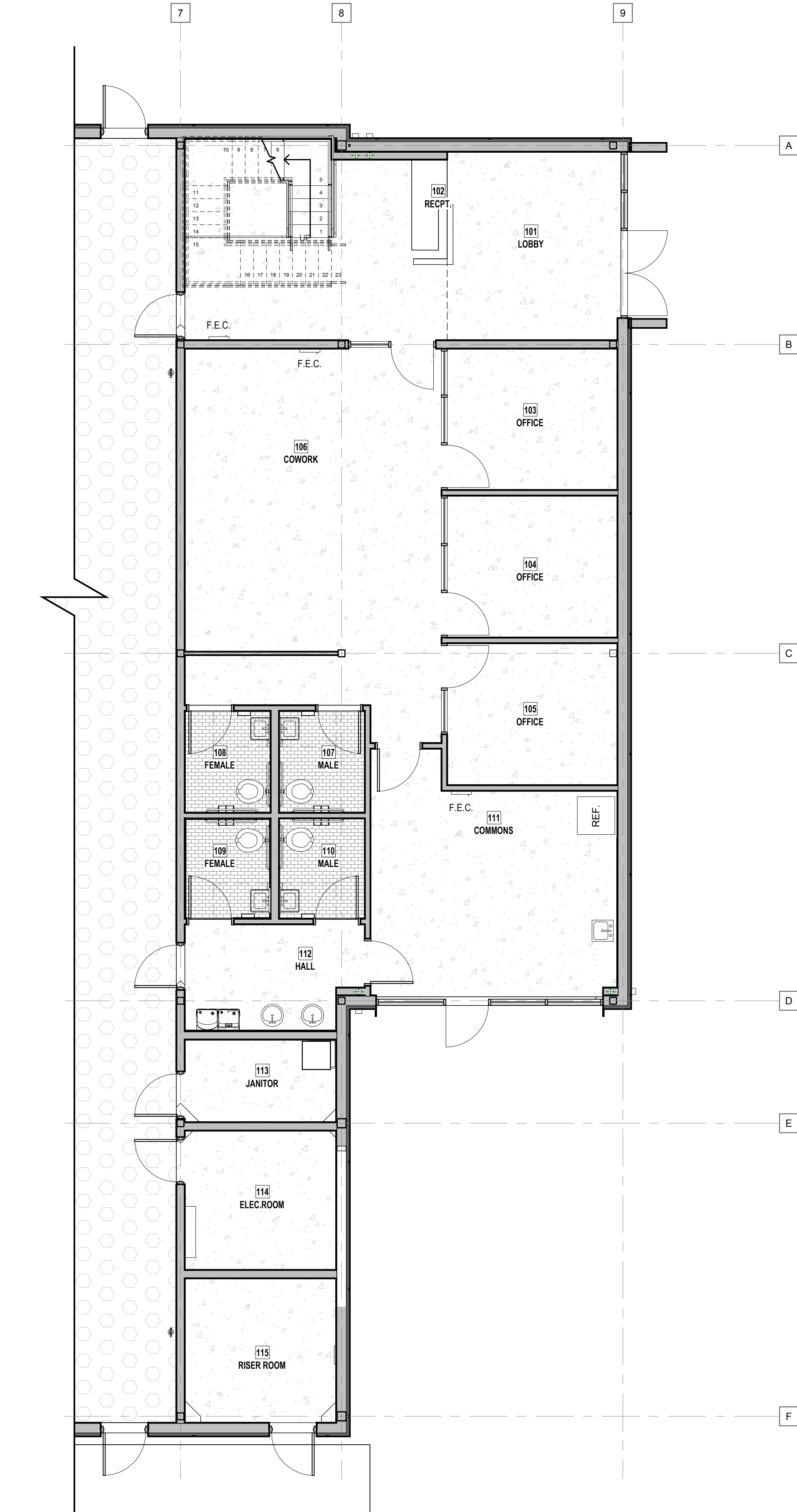
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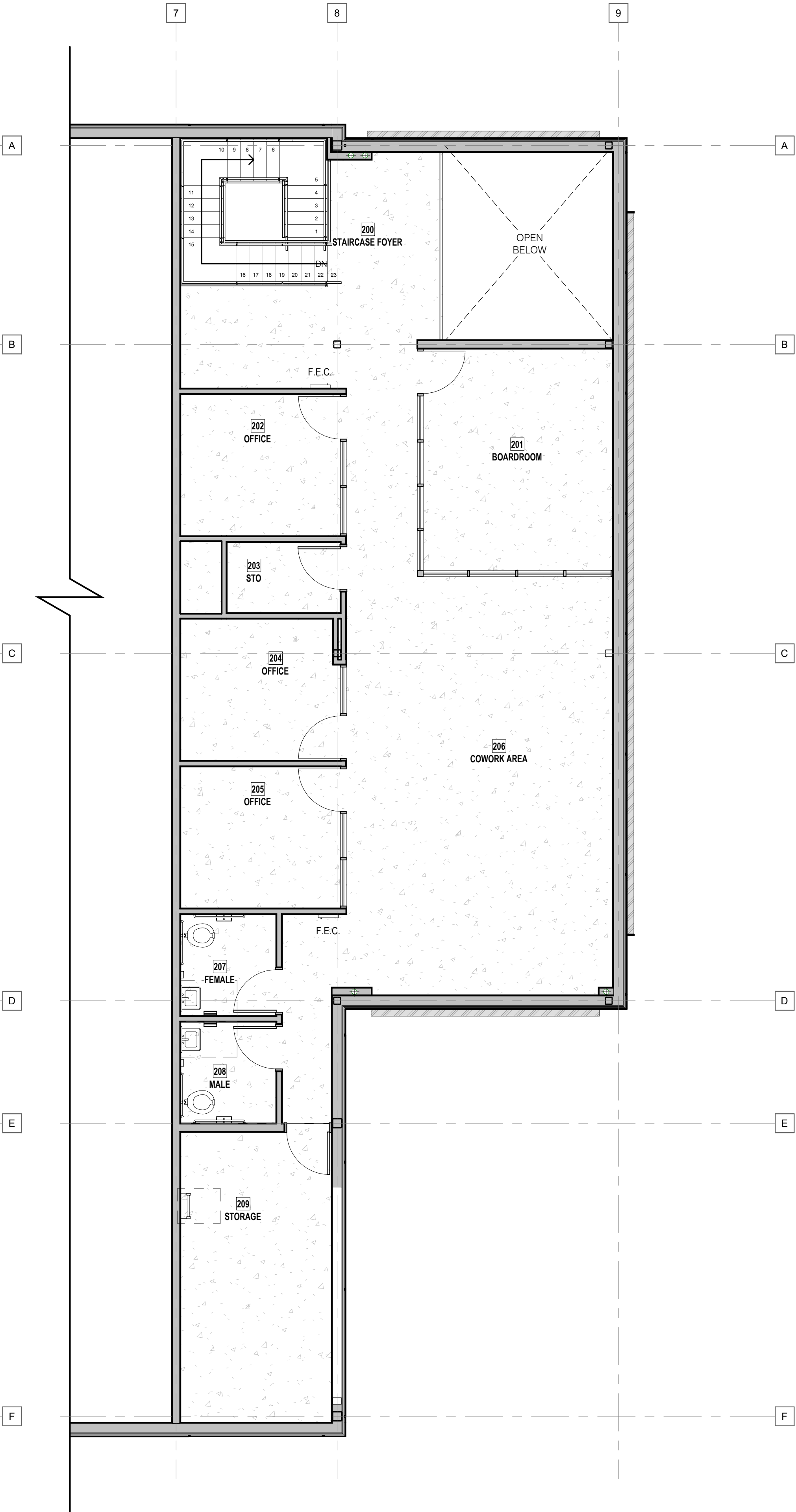
Sheet Title:
1ST FINISH PLAN

Sheet No.

A7.1



1 PARTIAL 1ST FINISH PLAN
SCALE: 3/16" = 1'-0"



2 PARTIAL 2ND FINISH PLAN
SCALE: 3/16" = 1'-0"

FINISHES GENERAL NOTES

1. ALL PAINTS AND WALL COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS AND RECOMMENDATIONS FOR THE PARTICULAR SPACE.
2. SAMPLES OF FINISH COLORS SHALL BE FIELD APPLIED FOR APPROVAL BY ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
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7. TILE INSTALLATION: CONTRACTOR SHALL LAY OUT FLOOR, BASE AND REVIEW WITH ARCHITECT PRIOR TO INSTALLATION.
8. FINISH EXPOSED EDGES OF PORCELAIN TILE WITH SEALER.
9. PROVIDE FLOOR TRANSITION STRIPS AT: CARPET TO VCT, CARPET TO CERAMIC TILE & CONCRETE TO CERAMIC TILE OR CARPET.
10. SEE REFLECTED CEILING PLAN, INTERIOR ELEVATIONS AND FLOOR FINISHES PLAN FOR ADDITIONAL FINISHES INFORMATION NOT SHOWN ON THIS SHEET.
11. CONTRACTOR TO COORDINATE FINISHES PATTERNS WITH ARCHITECT AND OWNER.

FLOOR LEGEND

	F1	POLISHED CONCRETE *ALL ADMINISTRATION AREA TO HAVE POLISHED CONCRETE, LEVEL 5 WEDGEM GLOUSE FINISH
	F2	CERAMIC TILE
	F3	EPOXY FLOORING FINISH

*FLOORING FINISH/ COLOR BY OWNER



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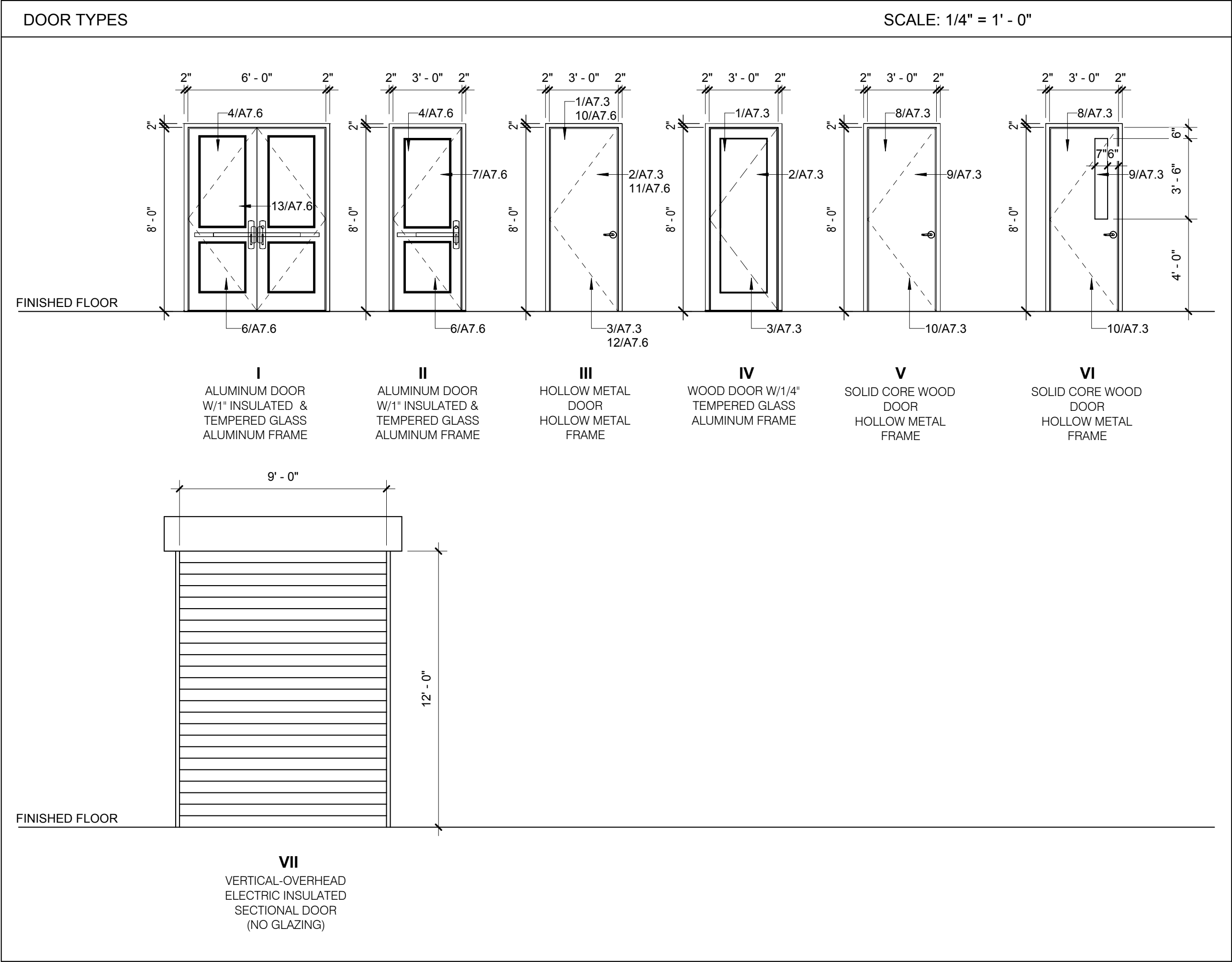
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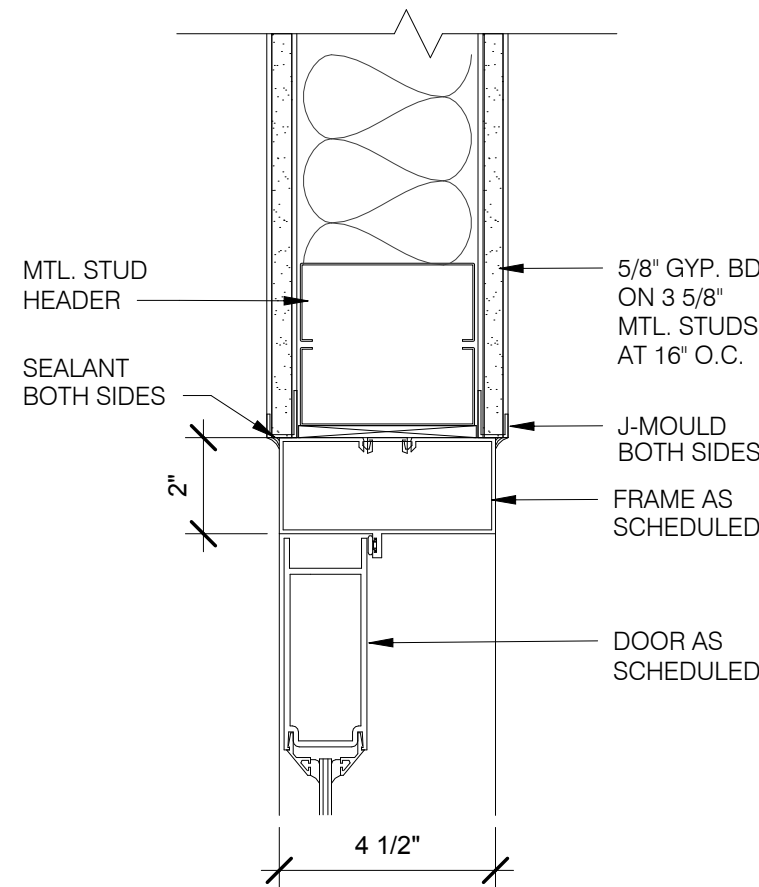
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ENLARGED 1ST AND 2ND
FINISH PLAN

Sheet No.

A7.2

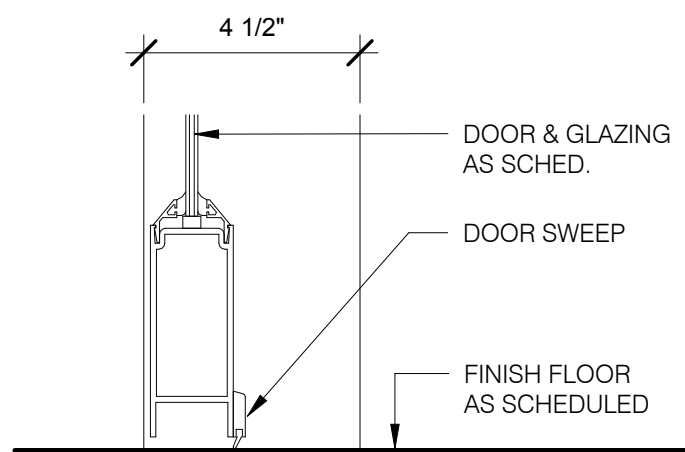


DOOR SCHEDULE1														
MARK	ROOM	DOOR TYPE	DOOR					FIRE RATING	FRAME		HEAD	JAM DTL.	SILL DTL.	COMMENTS
			Height	Width	THICKNE SS	MATERIAL	FINISH		MATERIAL	FINISH				
101-1	101	I	8' - 0"	6' - 0"	0' - 1 3/4"	ALUMINUM	ANODIZED		ALUMINUM	ANODIZED	5/A7.6	13/A7.6	6/A7.6	
102-1	102	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED	60 min.	HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
103-1	103	IV	8' - 0"	3' - 0"	0' - 1 3/4"	WOOD & GLASS.	STAINED		ALUMINUM	ANODIZED	1/A7.3	2/A7.3	3/A7.3	
104-1	104	IV	8' - 0"	3' - 0"	0' - 1 3/4"	WOOD & GLASS.	STAINED		ALUMINUM	ANODIZED	1/A7.3	2/A7.3	3/A7.3	
105-1	105	IV	8' - 0"	3' - 0"	0' - 1 3/4"	WOOD & GLASS.	STAINED		ALUMINUM	ANODIZED	1/A7.3	2/A7.3	3/A7.3	
106-1	106	IV	8' - 0"	3' - 0"	0' - 1 3/4"	WOOD & GLASS.	STAINED		ALUMINUM	ANODIZED	1/A7.3	2/A7.3	3/A7.3	
107-1	107	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
108-1	108	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
109-1	109	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
110-1	110	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
111-1	111	VI	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
111-2	111	II	8' - 0"	3' - 0"	0' - 1 3/4"	ALUMINUM	ANODIZED		ALUMINUM	ANODIZED	4/A7.6	7/A7.6	6/A7.6	
111-3	111	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
112-1	112	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED	60 min.	HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
113-1	113	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED	60 min.	HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
114-1	114	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED	60 min.	HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
115-1	115	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED		HOLLOW METAL	PAINTED	10/A7.6	11/A7.6	12/A7.6	
116-1	116	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED		HOLLOW METAL	PAINTED	10/A7.6	11/A7.6	12/A7.6	
116-2	116	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED		HOLLOW METAL	PAINTED	10/A7.6	11/A7.6	12/A7.6	
116-3	116	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED		HOLLOW METAL	PAINTED	10/A7.6	11/A7.6	12/A7.6	
116-4	116	III	8' - 0"	3' - 0"	0' - 1 3/4"	HOLLOW METAL	PAINTED		HOLLOW METAL	PAINTED	10/A7.6	11/A7.6	12/A7.6	
116-5	116	VII	12' - 0"	9' - 0"	0' - 2"	RIGID ALUMINUM	PRE-FINISH		GALVANIZED	GALVANIZED				INSTALL AS PER MFR. RECOMMENDATIONS
116-6	116	VII	12' - 0"	9' - 0"	0' - 2"	RIGID ALUMINUM	PRE-FINISH		GALVANIZED	GALVANIZED				INSTALL AS PER MFR. RECOMMENDATIONS
116-7	116	VII	12' - 0"	9' - 0"	0' - 2"	RIGID ALUMINUM	PRE-FINISH		GALVANIZED	GALVANIZED				INSTALL AS PER MFR. RECOMMENDATIONS
116-8	116	VII	12' - 0"	9' - 0"	0' - 2"	RIGID ALUMINUM	PRE-FINISH		GALVANIZED	GALVANIZED				INSTALL AS PER MFR. RECOMMENDATIONS
201-1	201	IV	8' - 0"	3' - 0"	0' - 1 3/4"	WOOD & GLASS.	STAINED		ALUMINUM	ANODIZED	1/A7.3	2/A7.3	3/A7.3	
202-1	202	IV	8' - 0"	3' - 0"	0' - 1 3/4"	WOOD & GLASS.	STAINED		ALUMINUM	ANODIZED	1/A7.3	2/A7.3	3/A7.3	
203-1	203	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED	60 min.	HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
204-1	204	IV	8' - 0"	3' - 0"	0' - 1 3/4"	WOOD & GLASS.	STAINED		ALUMINUM	ANODIZED	1/A7.3	2/A7.3	3/A7.3	
205-1	205	IV	8' - 0"	3' - 0"	0' - 1 3/4"	WOOD & GLASS.	STAINED		ALUMINUM	ANODIZED	1/A7.3	2/A7.3	3/A7.3	
207-1	207	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
208-1	208	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
209-1	209	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	INSTALL "NOT ACCESSIBLE ROUTE" SIGN.
300-1	300	VI	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
301-1	301	VI	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
302-1	302	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
303-1	303	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	
304-1	304	V	8' - 0"	3' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAINED		HOLLOW METAL	PAINTED	8/A7.3	9/A7.3	10/A7.3	



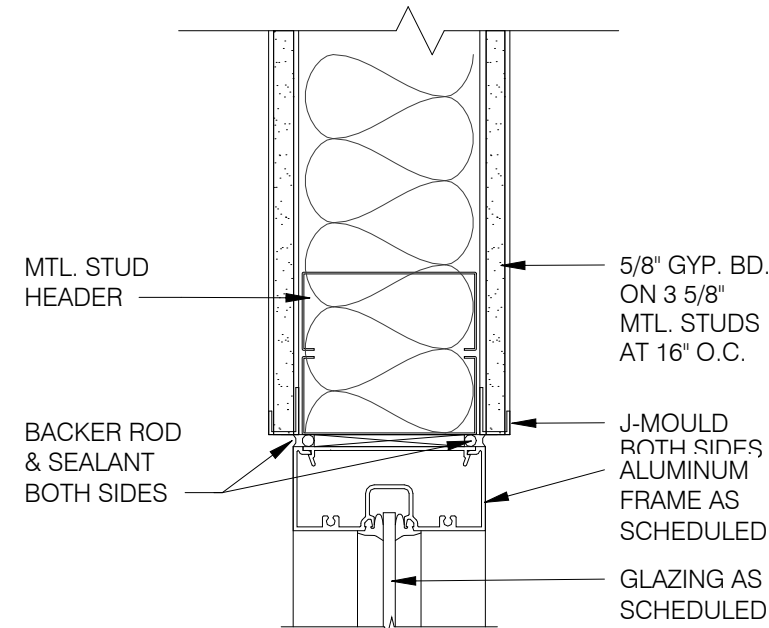
1 HEAD/JAM DETAIL

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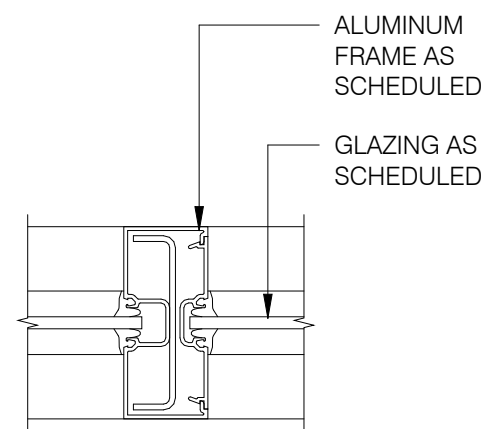
3 DOOR SILL DETAIL

SCALE: 3" = 1'-0"



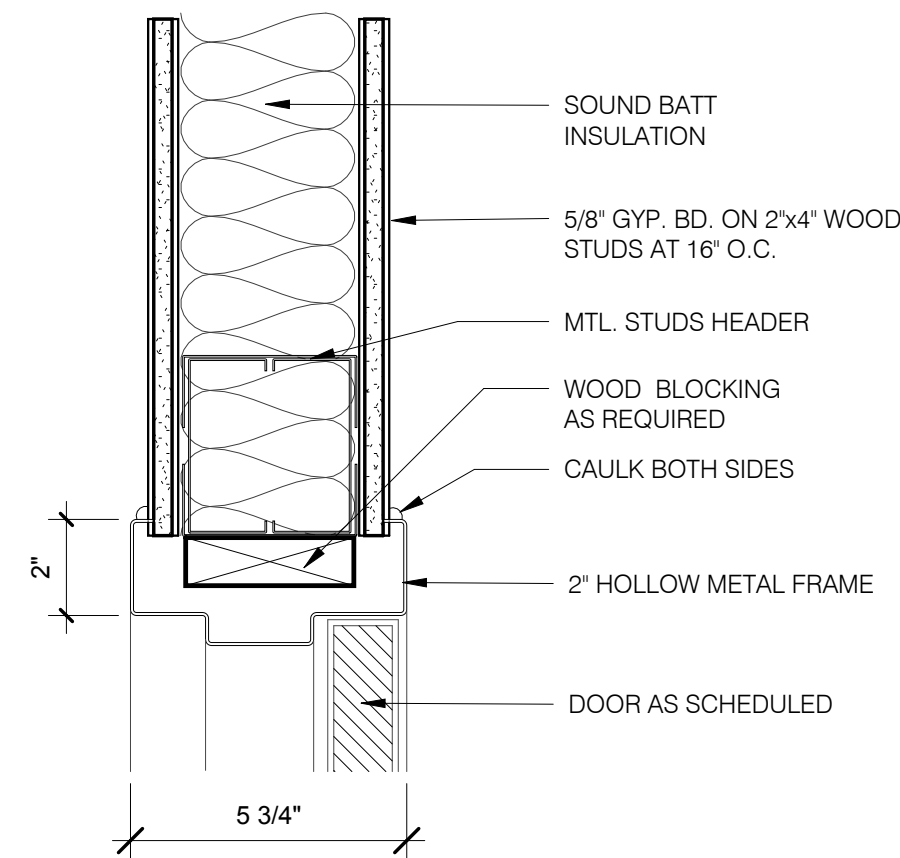
4 HEAD/JAM DETAIL

SCALE: 3" = 1'-0"



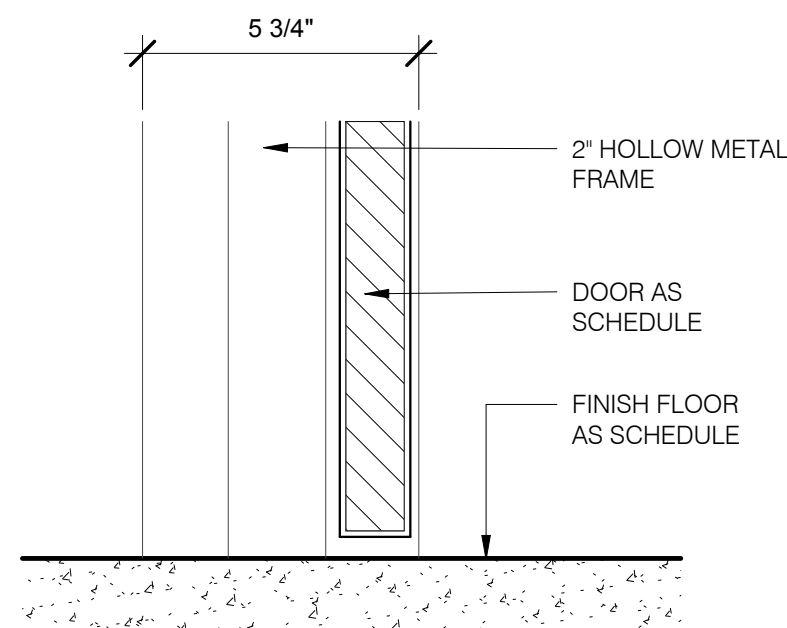
6 VERT. MULLION DETAIL

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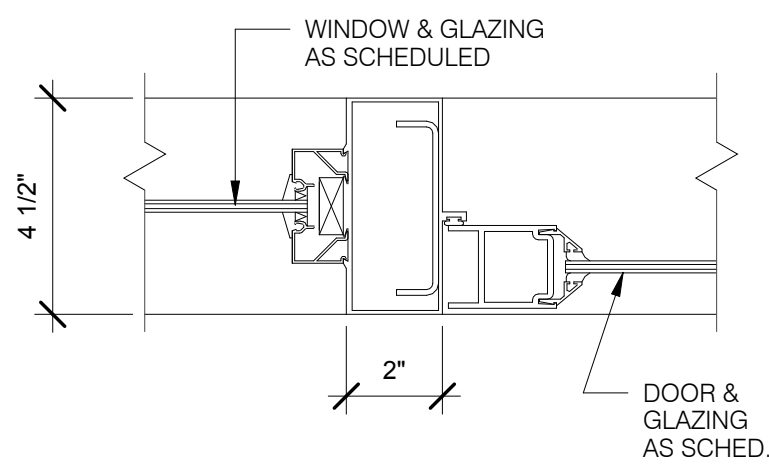
8 HEAD DETAIL

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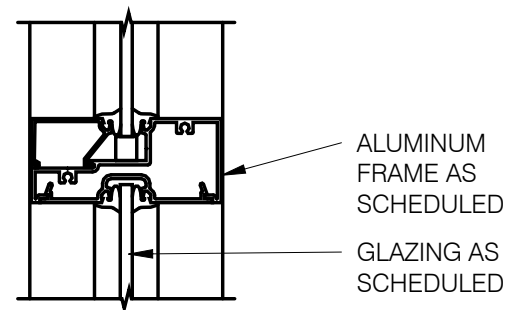
10 DOOR SILL DETAIL

SCALE: 3" = 1'-0"



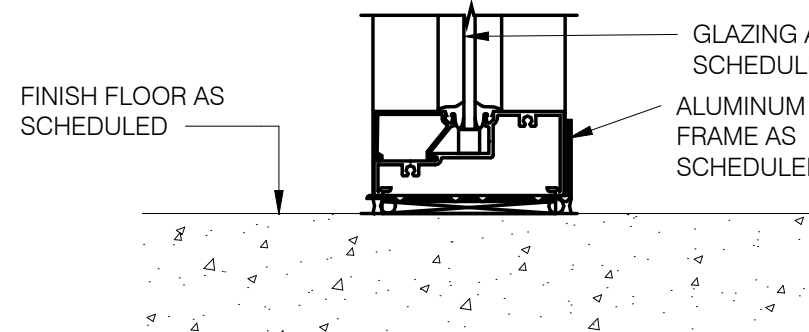
2 DOORWD JAM DETAIL

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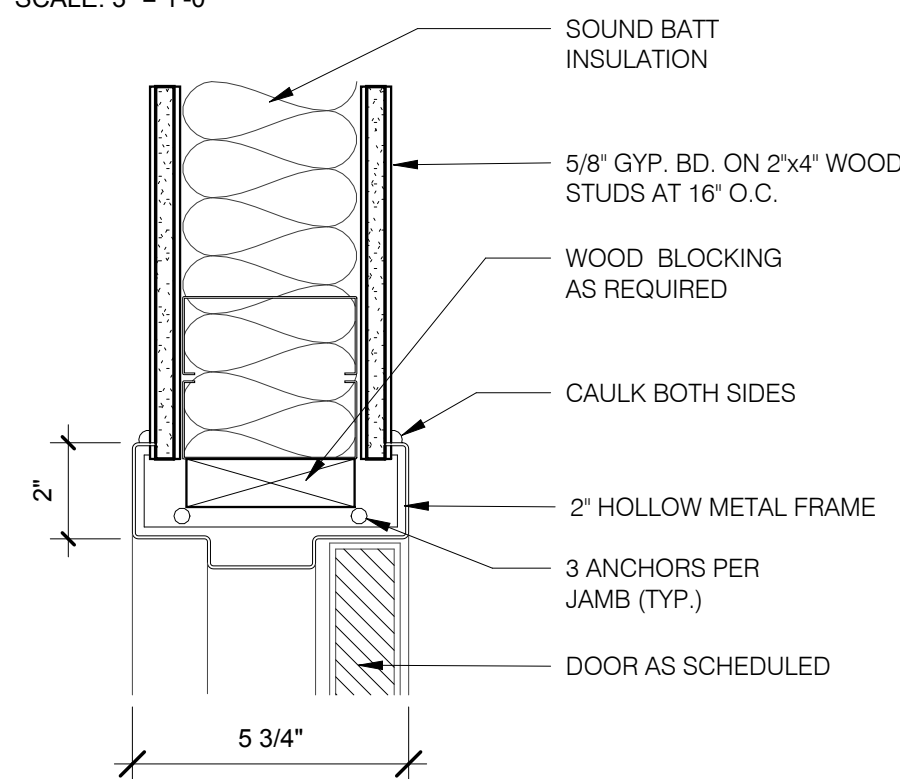
5 HOR. MULLION DETAIL

SCALE: 3" = 1'-0"



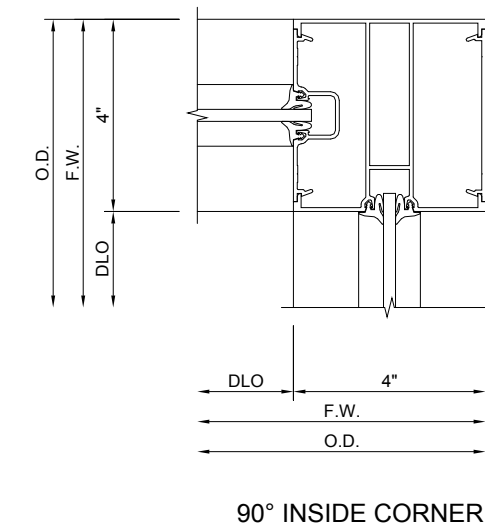
7 SILL DTL.

SCALE: 3" = 1'-0"



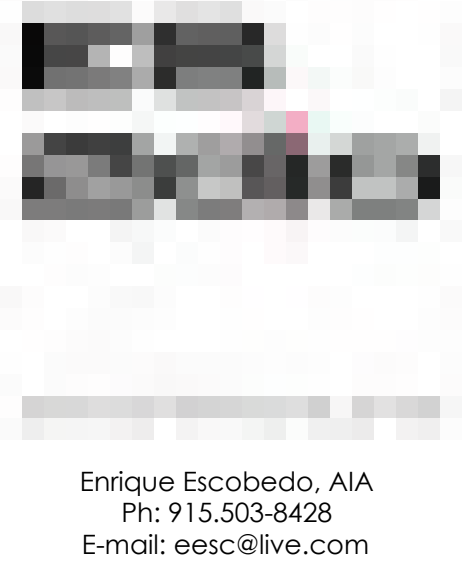
9 JAM DETAIL

SCALE: 3" = 1'-0"



11 INSIDE CORNER DTL.

SCALE: 3" = 1'-0"



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for:

ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008

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07/15/24

Date: 07/15/24

Revised: -

Project No. 2407

Drawn By: JSMS/EE

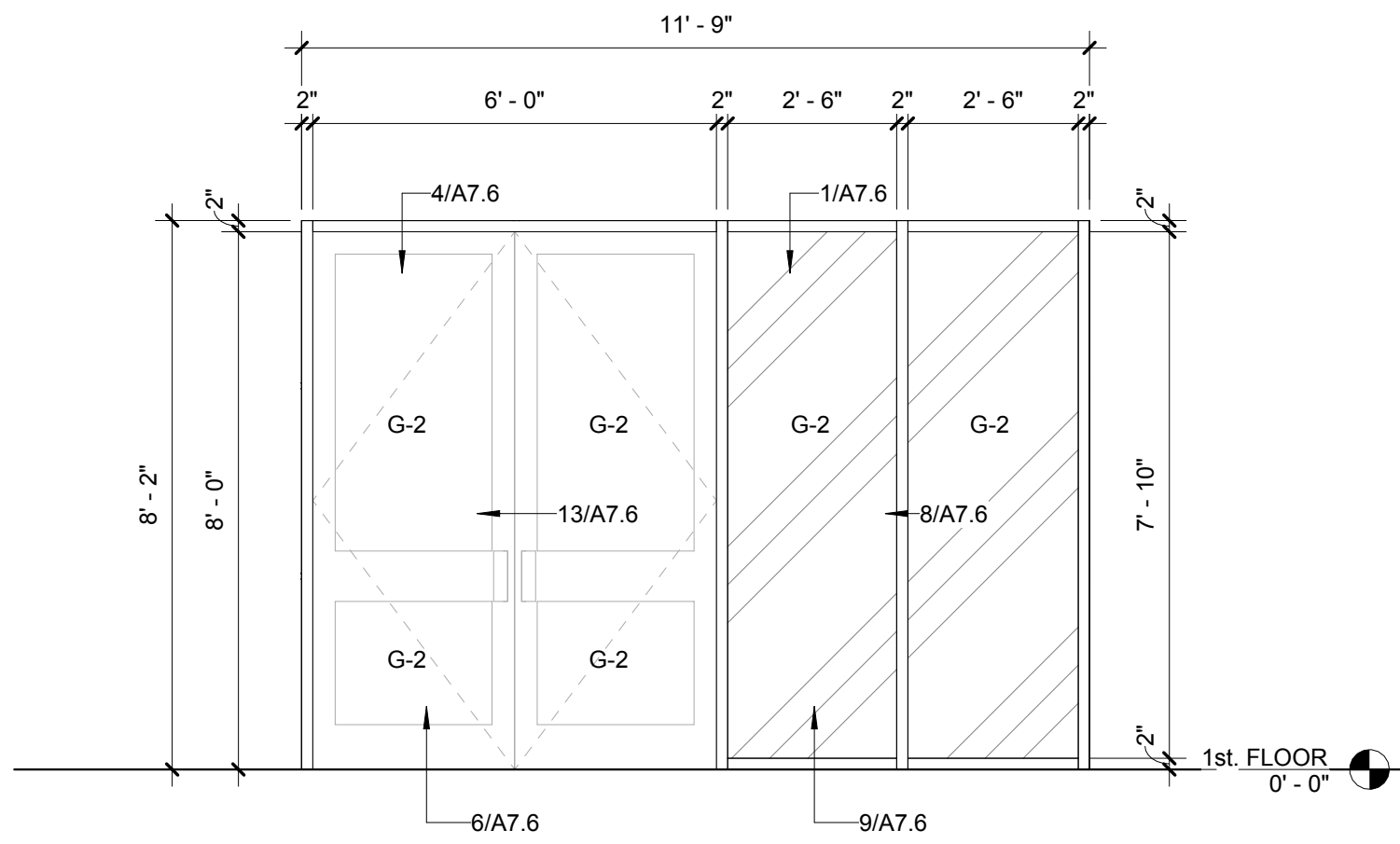
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Sheet Title:
DOOR SCHEDULES &
DOOR TYPES

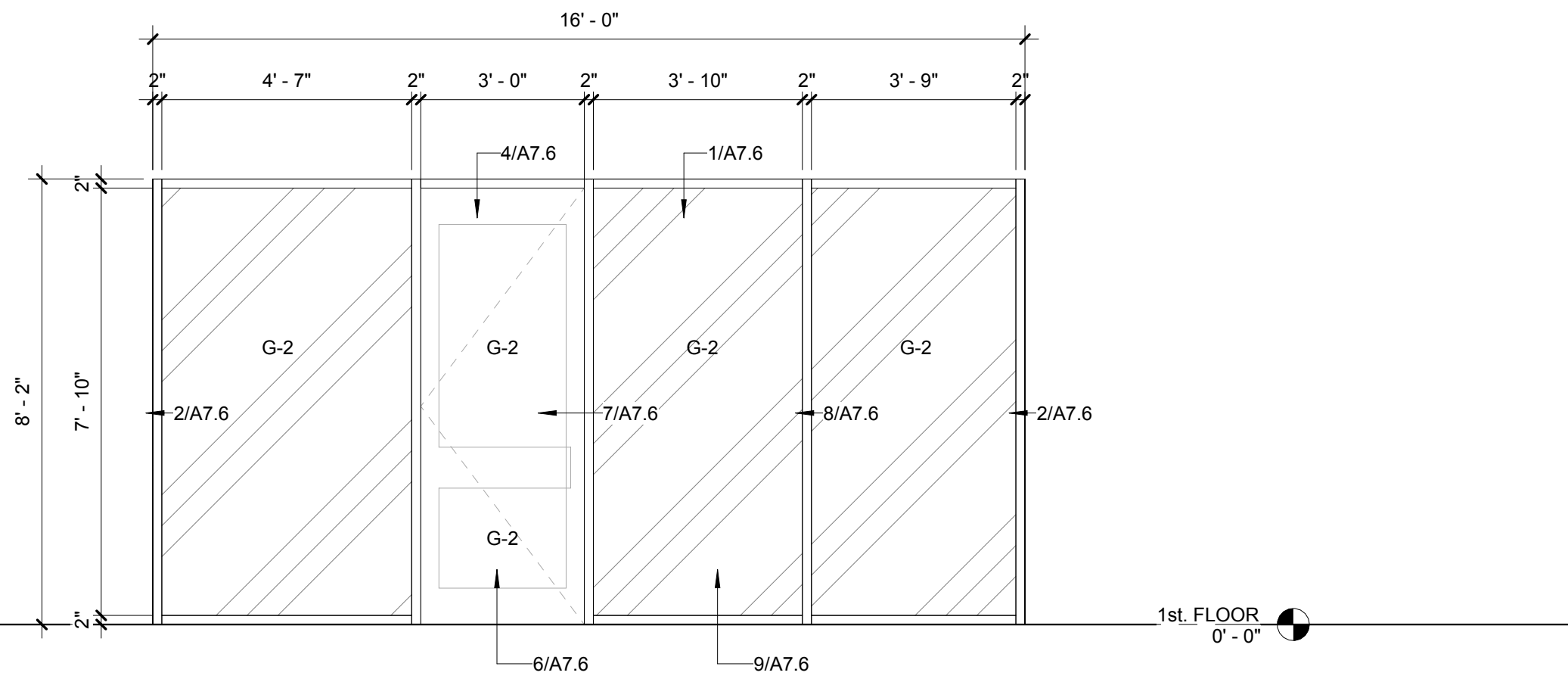
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A7.3



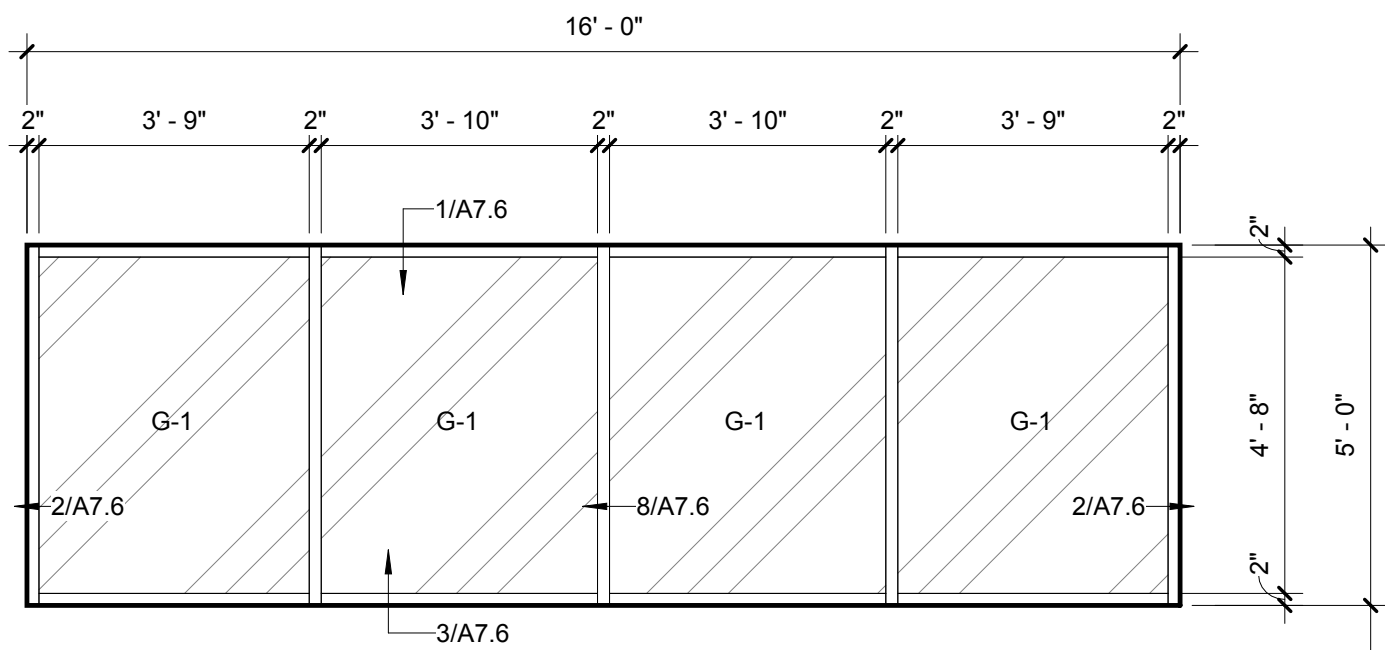
ALUMINUM STOREFRONT WITH 1" INSULATED GLASS.
- TRIFAB 451T SYSTEM BY KAWNEER

1 WNDW/FRM - A
SCALE: 3/8" = 1'-0"



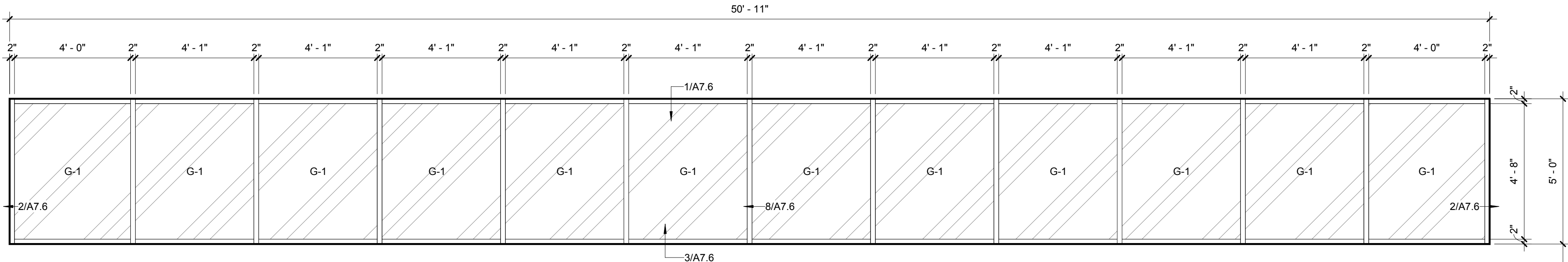
ALUMINUM STOREFRONT WITH 1" INSULATED GLASS.
- TRIFAB 451T SYSTEM BY KAWNEER

2 WNDW/FRM - B
SCALE: 3/8" = 1'-0"



ALUMINUM STOREFRONT WITH 1" INSULATED GLASS.
- TRIFAB 451T SYSTEM BY KAWNEER

8 WNDW/FRM - C
SCALE: 3/8" = 1'-0"



ALUMINUM STOREFRONT WITH 1" INSULATED GLASS.
- TRIFAB 451T SYSTEM BY KAWNEER

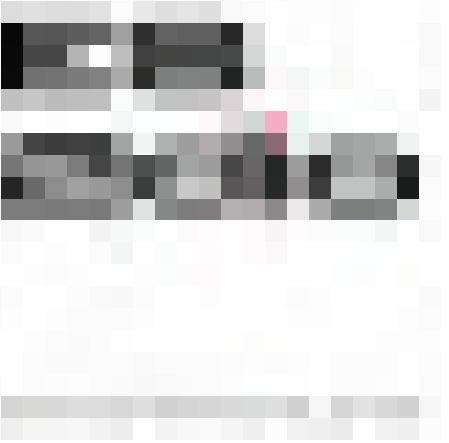
7 WNDW/FRM - D
SCALE: 3/8" = 1'-0"

GLAZING TYPE:

- 1/2" INSULATED GLASS
- 1/2" INSULATED TEMPERED GLASS
- 1/4" TEMPERED GLASS

NOTES:

- UNDERCUT DOORS AS REQUIRED BY MECHANICAL DRAWINGS.
- PROVIDE BREAK MTL. WHERE REQD. TO CONCEAL EXP. BLOCKING, NAILERS & OTHER CONST. @ ALUM. DOOR & WINDOW FRAMES. BREAK MTL. COLOR SHALL MATCH ALUM. FRAME.
- INSTALL FLUID MEMBRANE OVER FLANGE AND ONTO FRAME AT HEAD, JAMBS, HEAD & METAL HEAD, JAMB AND SILL FLASHING PRIOR INSTALLATION OF WINDOWS. OTHERWISE WORK WILL BE REJECTED.
- INSTALL METAL FLASHING AT ALL EXTERIOR WINDOWS OPENING AS SHOWN IN DETAILS. PRIOR INSTALLATION OF WINDOWS. WORK WILL BE REJECTED IF METAL FLASHING ARE NOT INSTALLED BEFORE WINDOWS.



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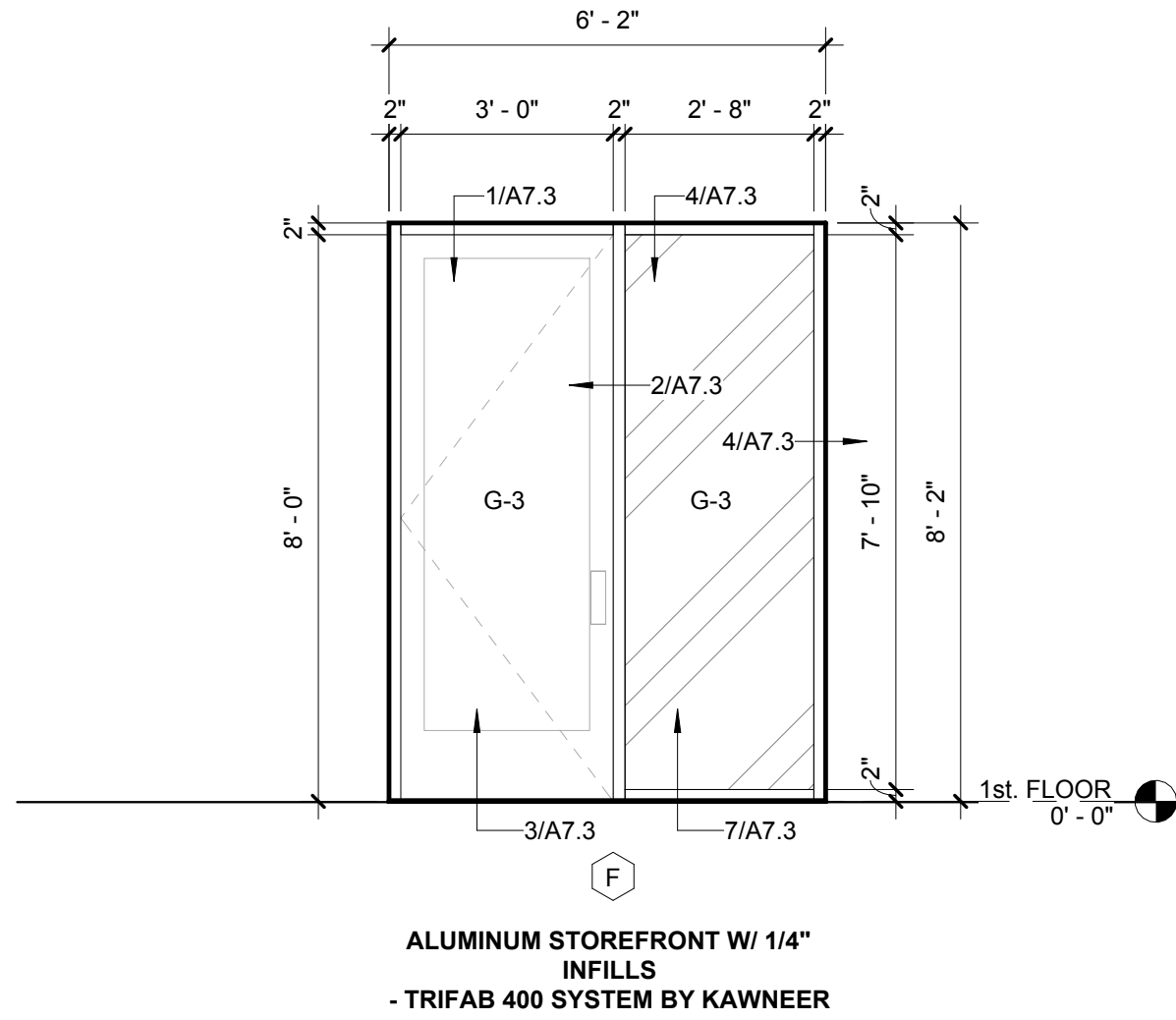
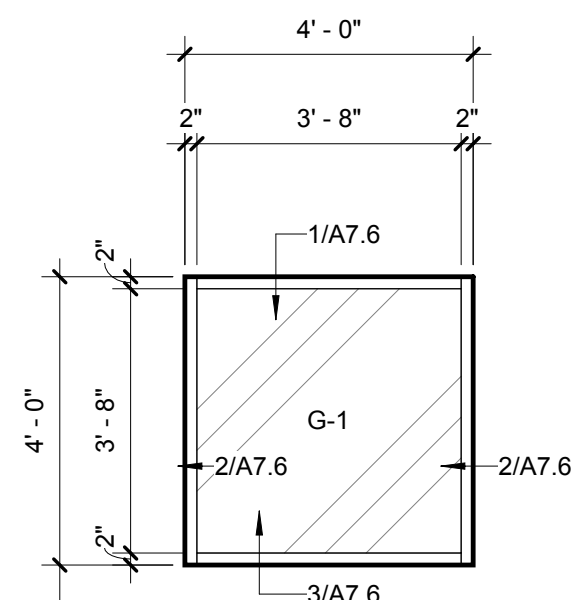
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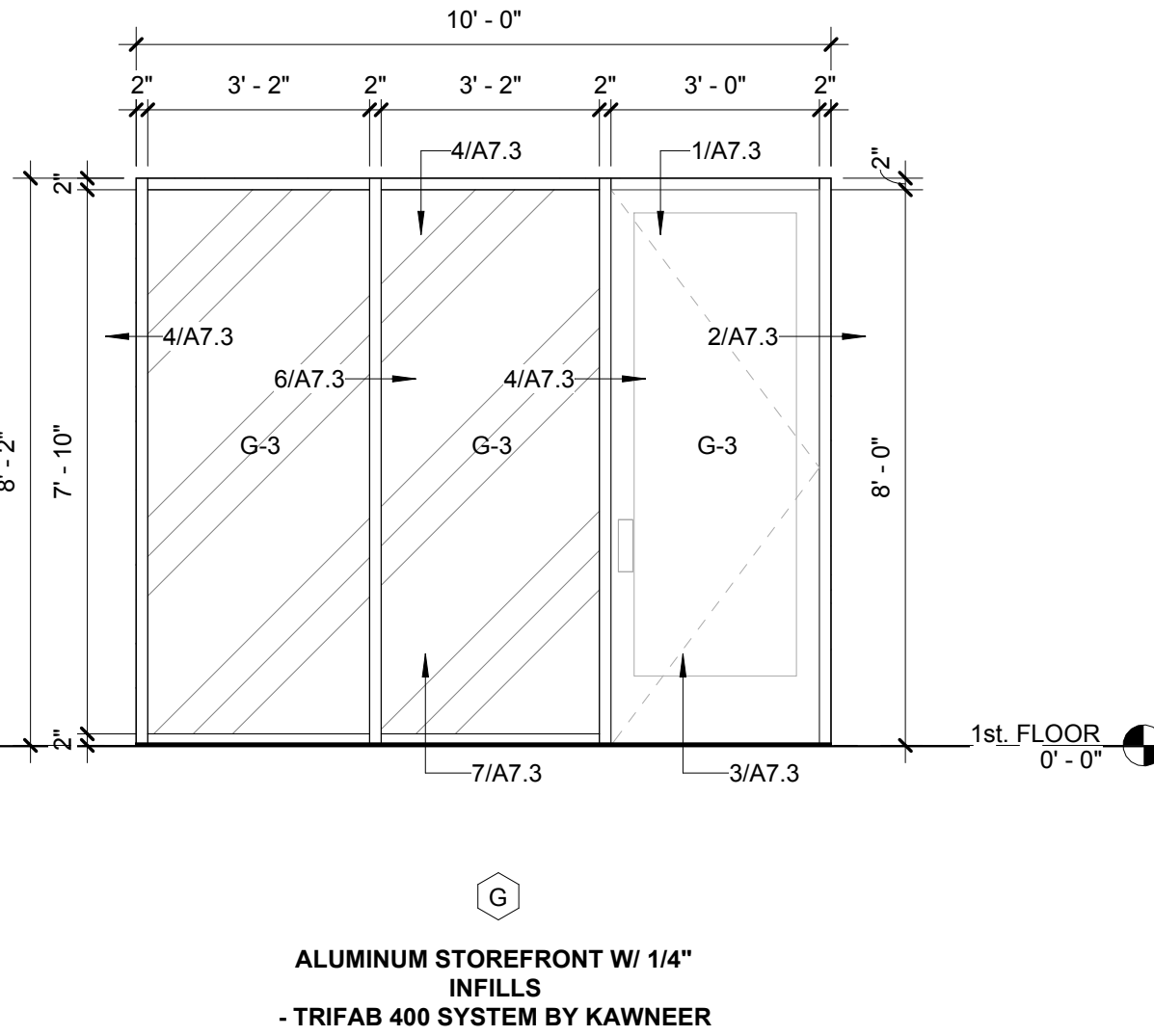
WINDOW TYPES

Sheet No.

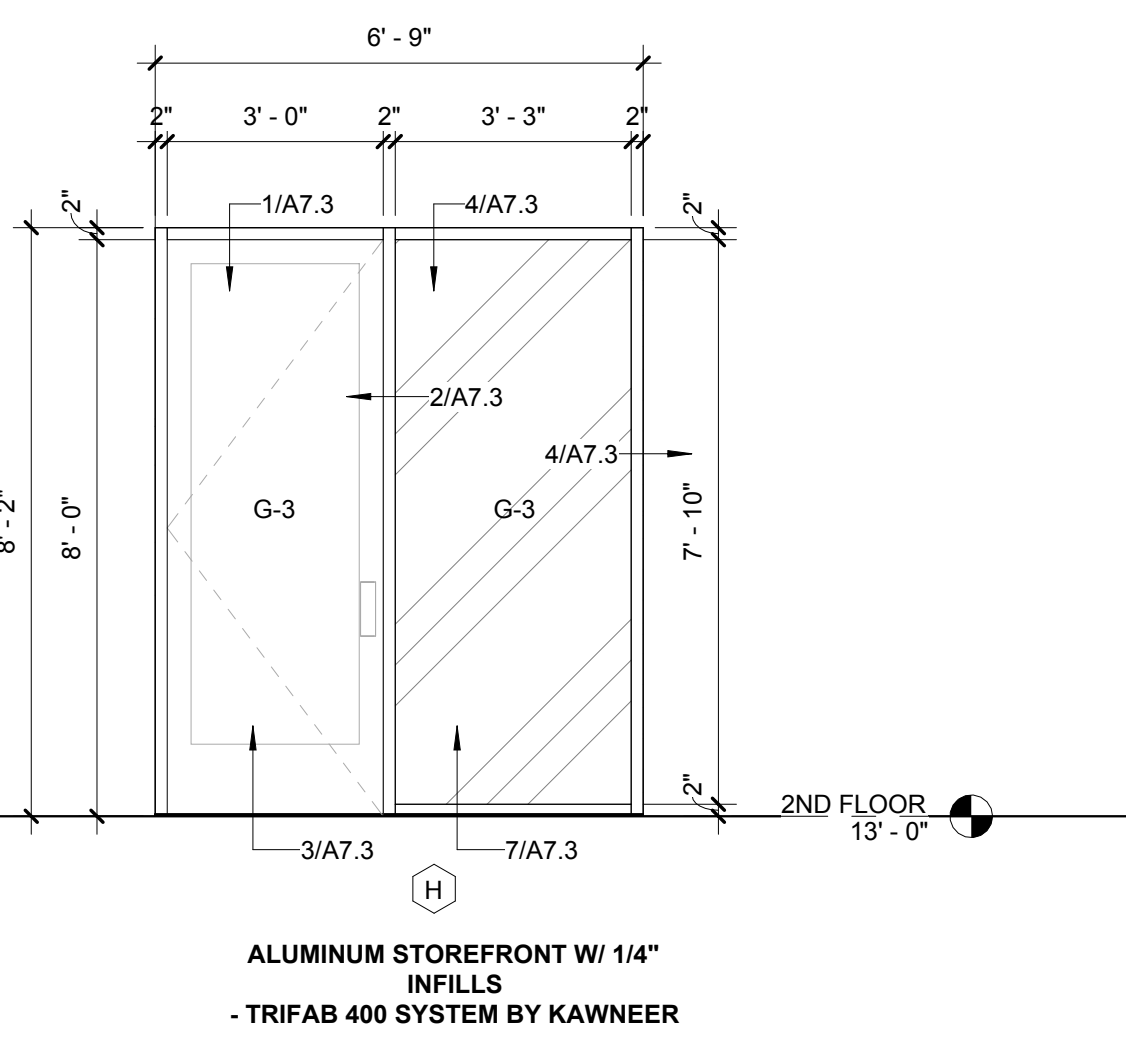
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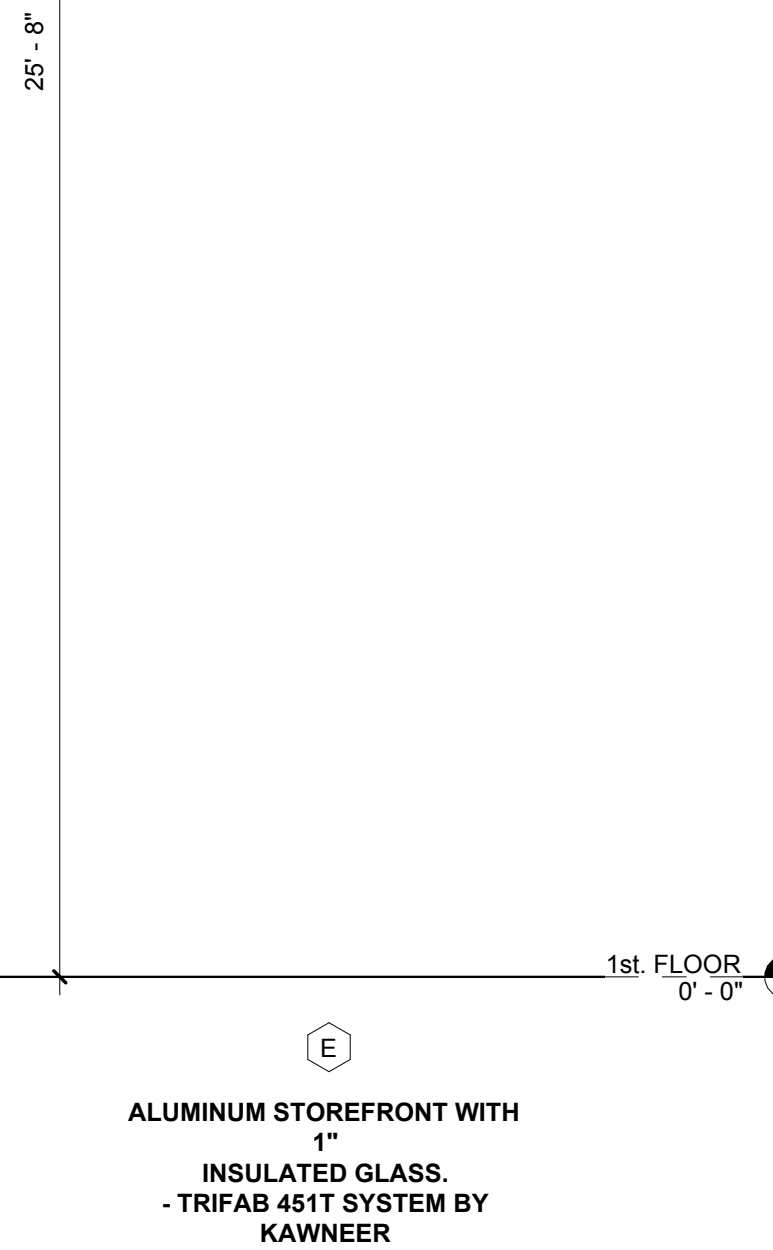
2 WNDW/FRM - F
SCALE: 3/8" = 1'-0"



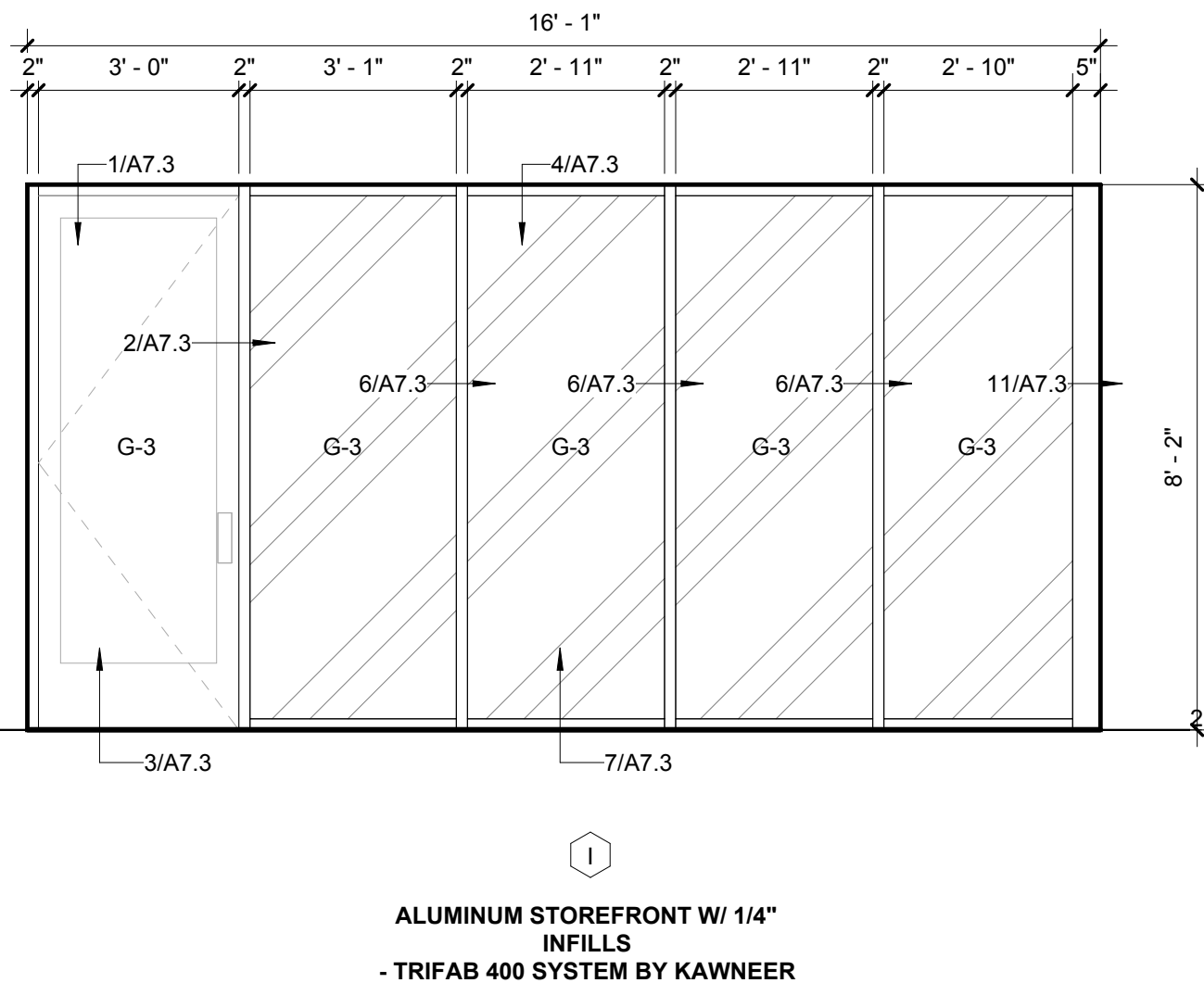
3 WNDW/FRM - G
SCALE: 3/8" = 1'-0"



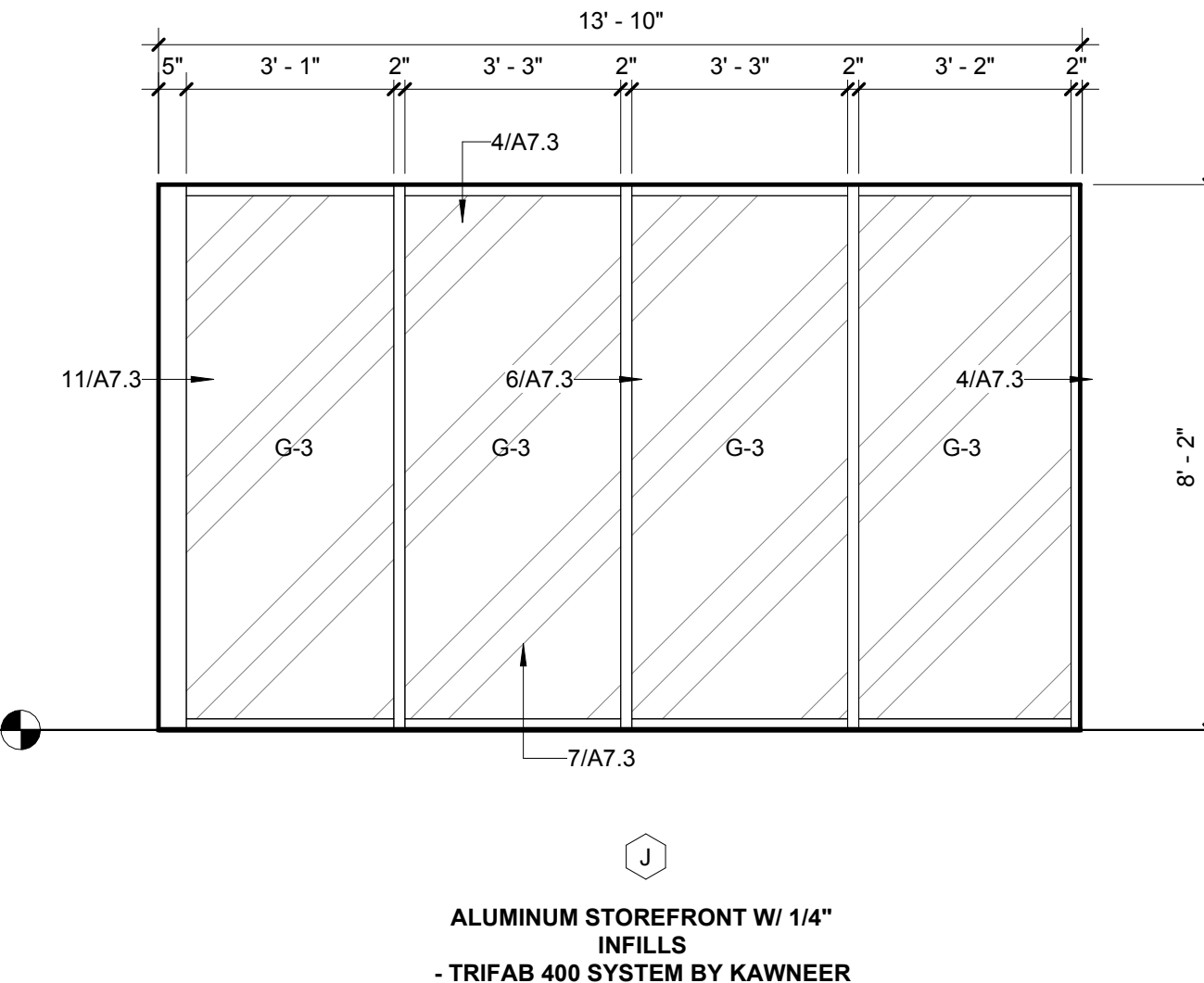
8 WNDW/FRM TYPE H
SCALE: 3/8" = 1'-0"



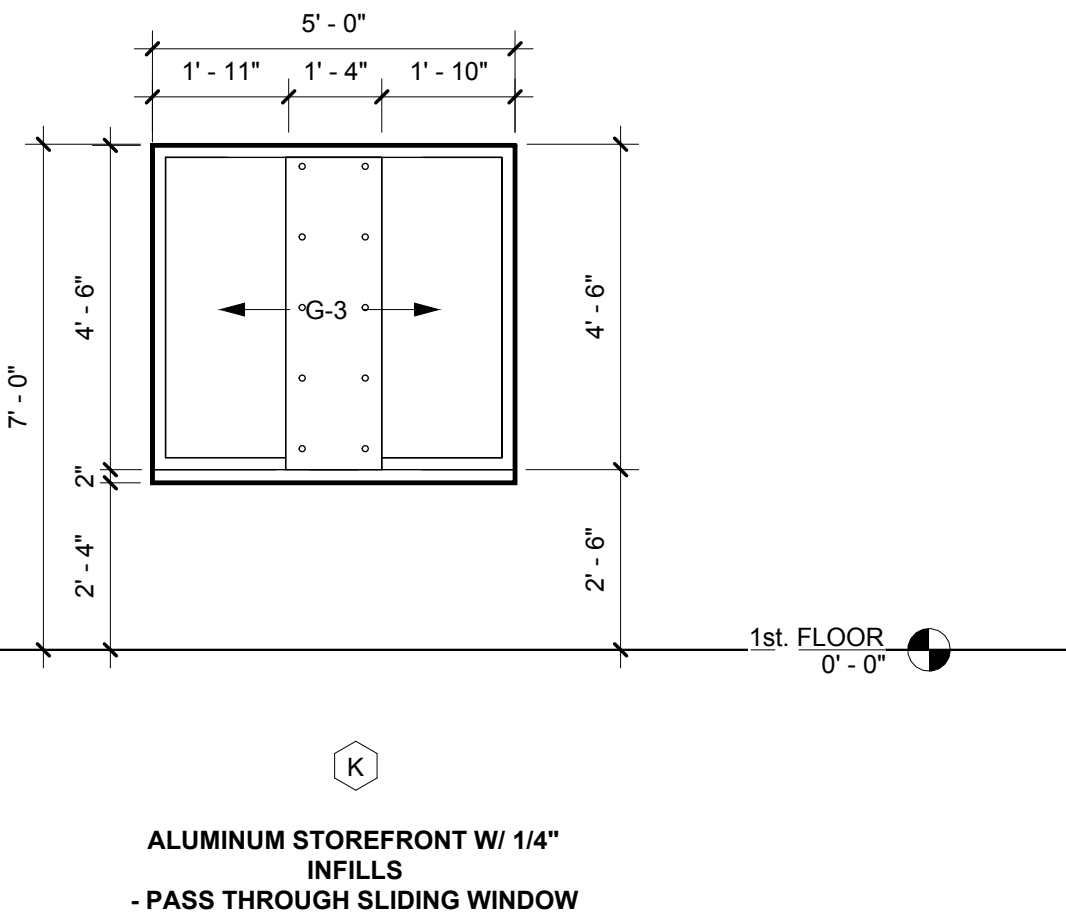
1 WNDW/FRM - E
SCALE: 3/8" = 1'-0"



5 WNDW/FRM - I
SCALE: 3/8" = 1'-0"



6 WNDW/FRM - J
SCALE: 3/8" = 1'-0"



7 WNDW/FRM TYPE K
SCALE: 3/8" = 1'-0"

GLAZING TYPE:

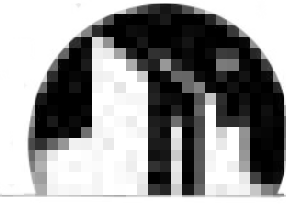
- 1/2" INSULATED GLASS
- 1/2" INSULATED TEMPERED GLASS
- 1/4" TEMPERED GLASS

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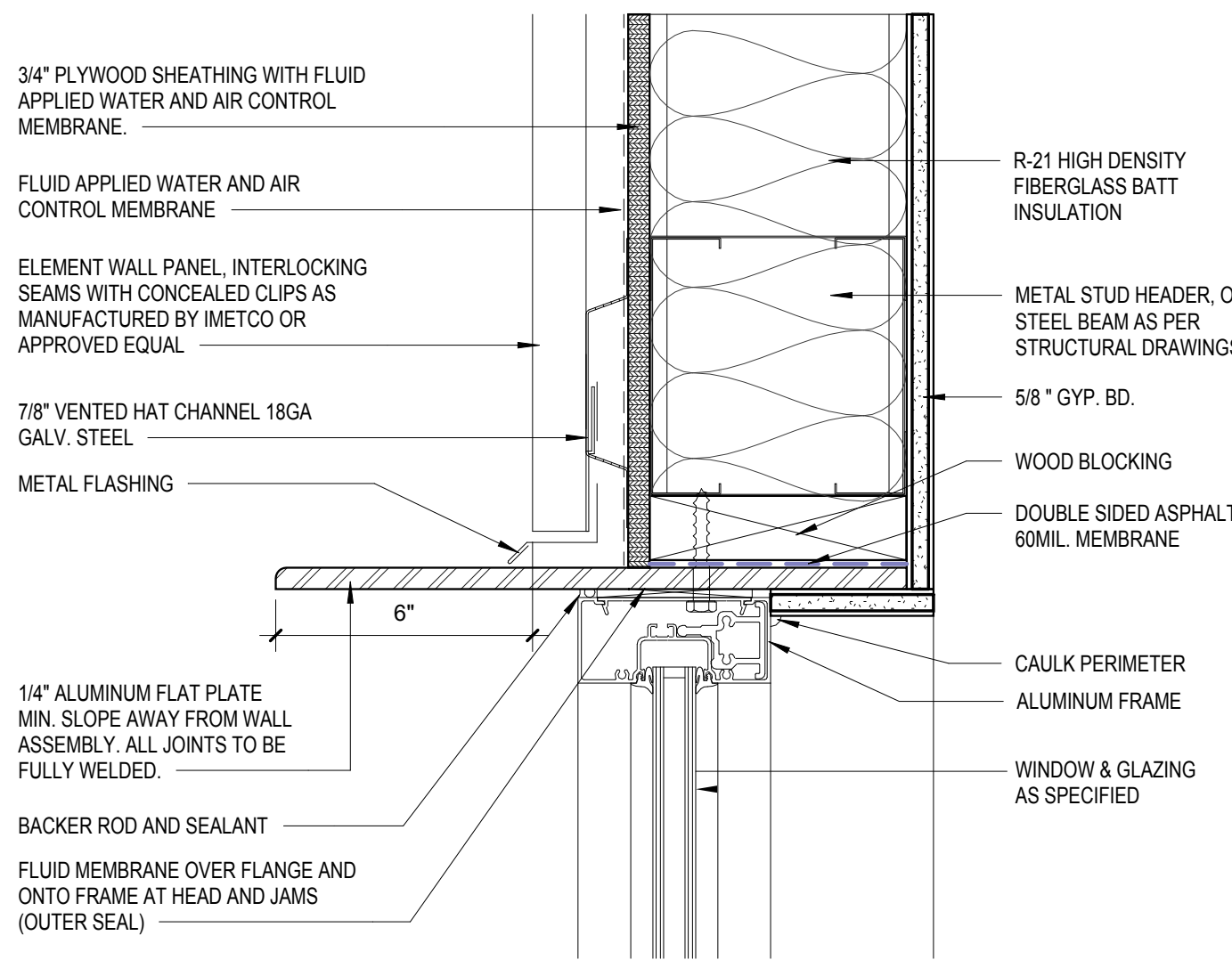
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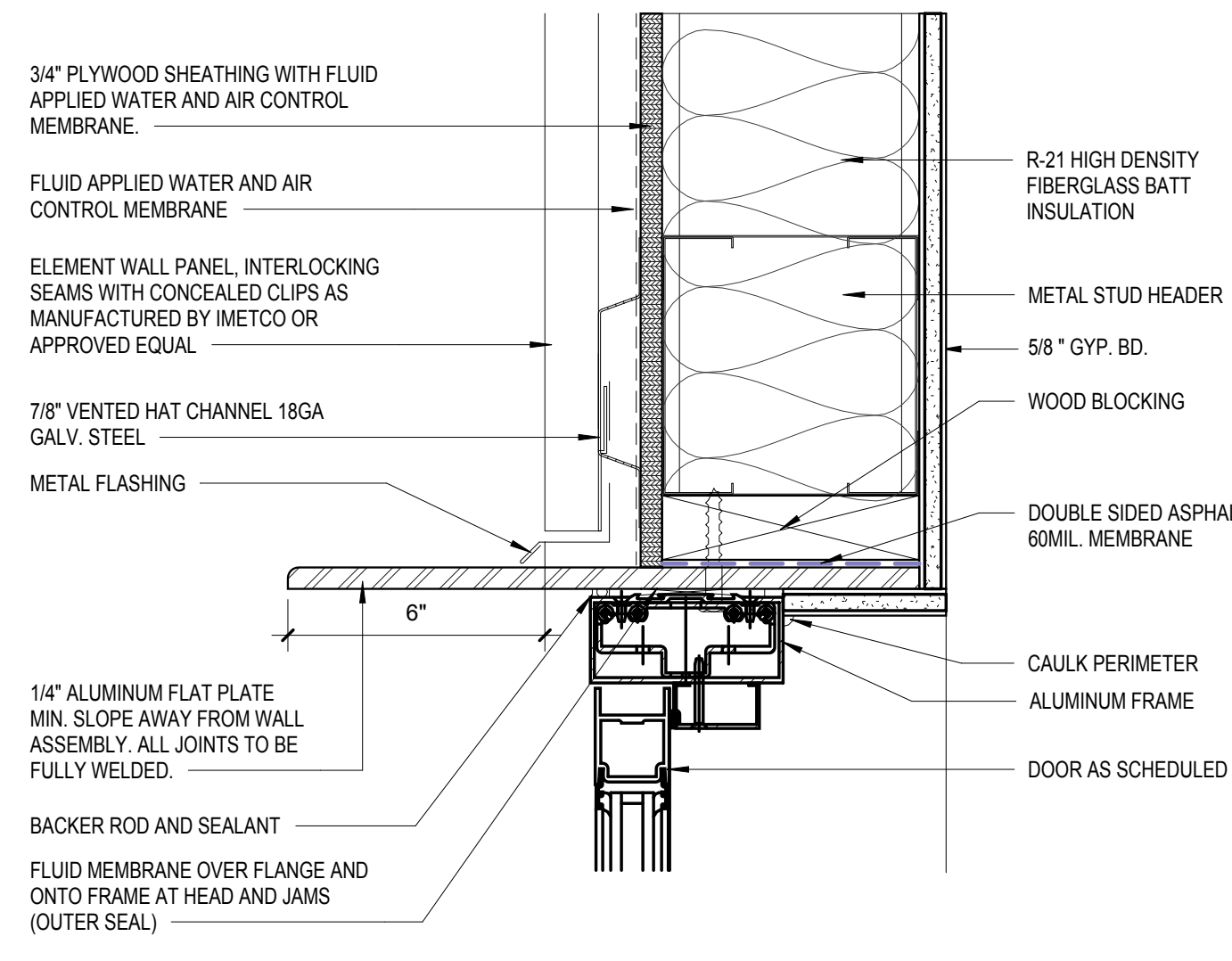
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WINDOW TYPES

Sheet No.

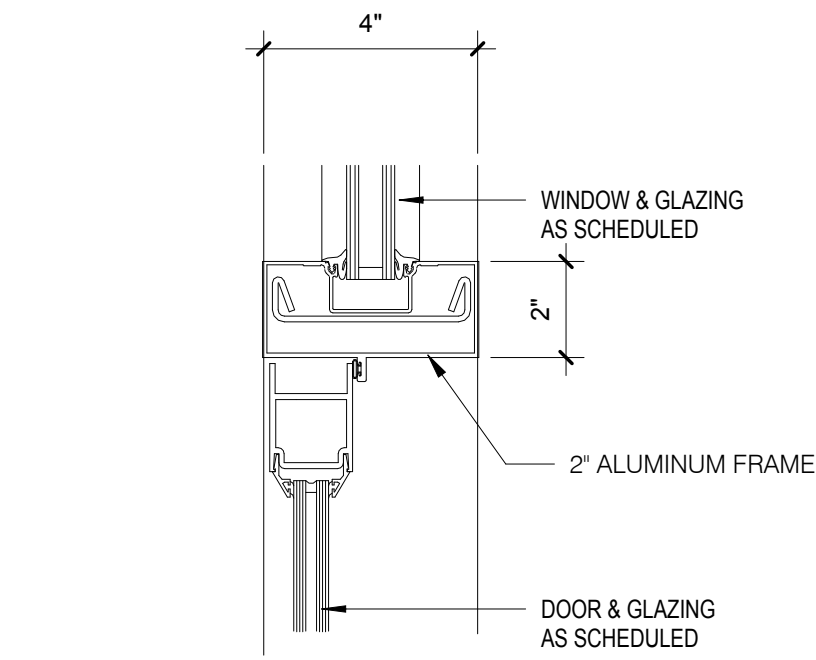
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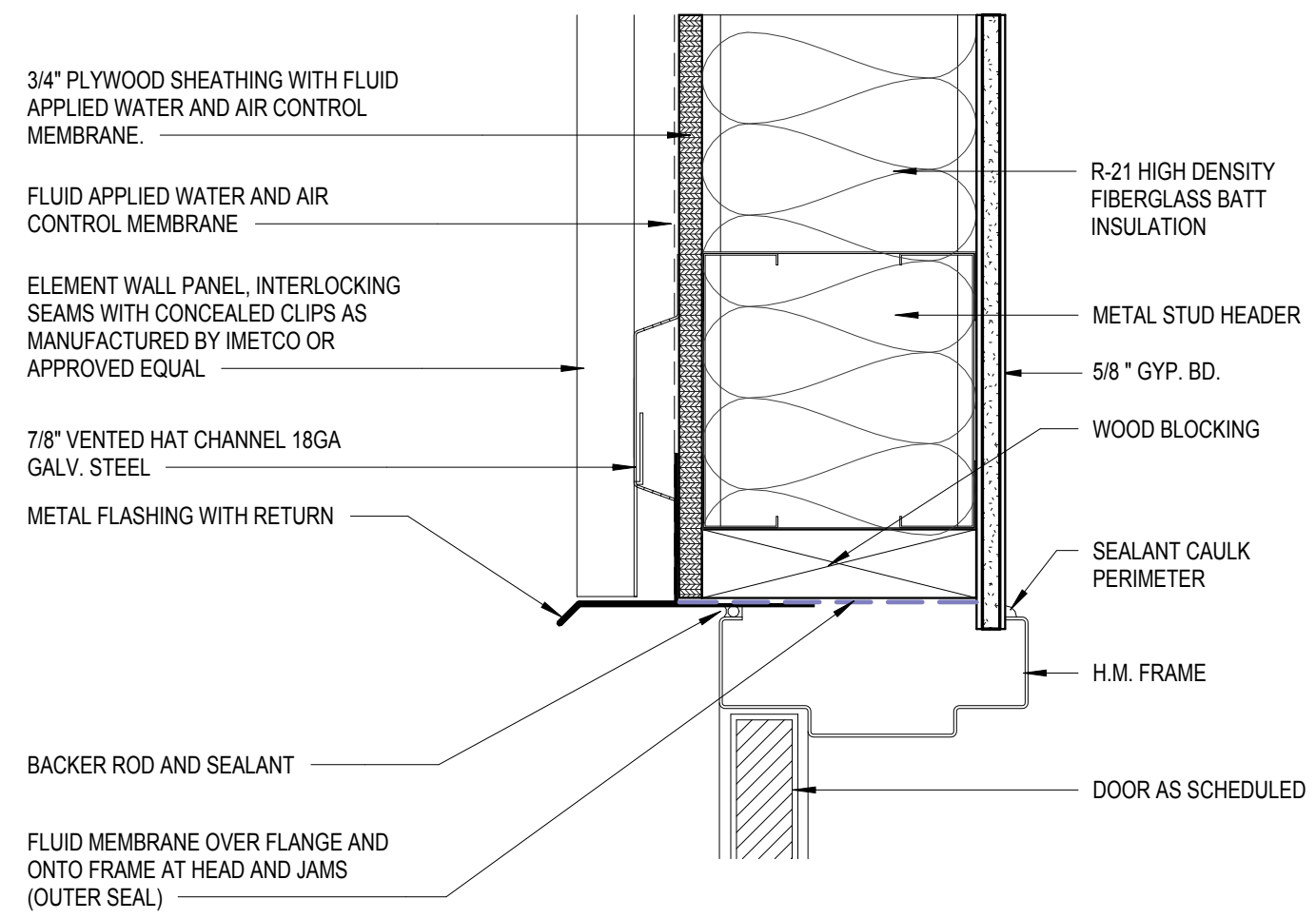
1 WD. HEAD DTL.
SCALE: 3" = 1'-0"



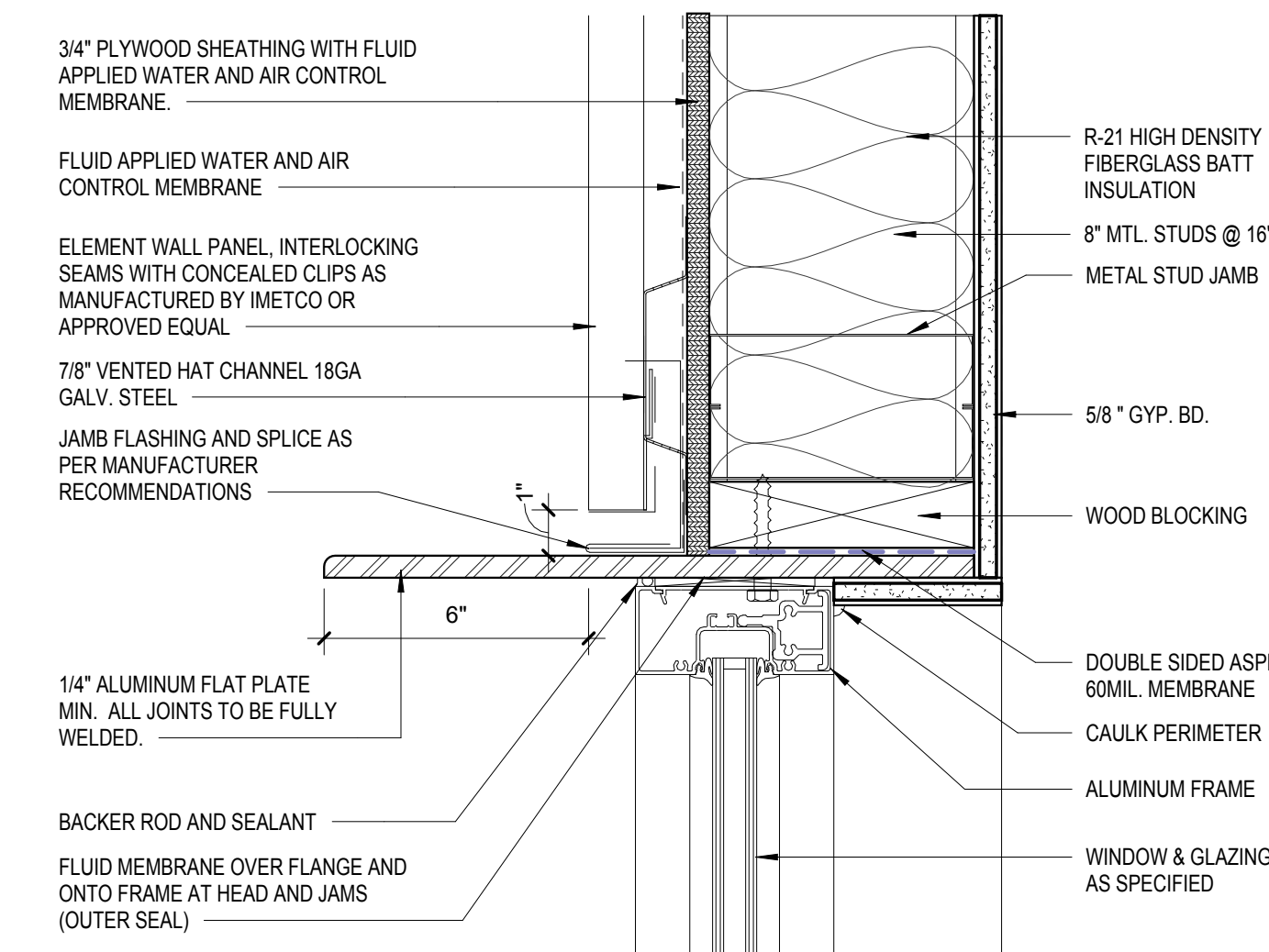
4 DOOR HEAD DTL.
SCALE: 3" = 1'-0"



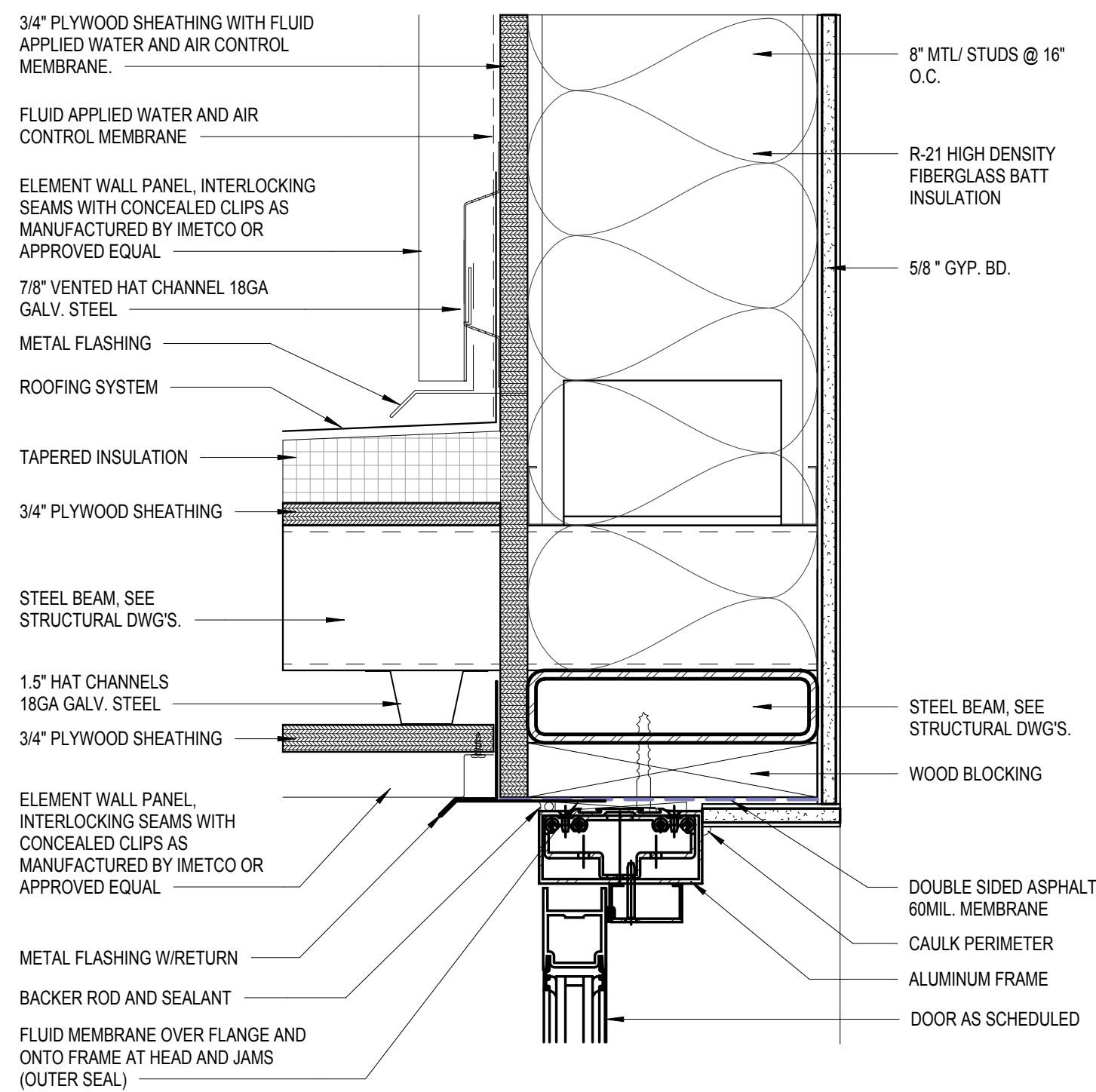
7 WD/DOOR JAM DETAIL
SCALE: 3" = 1'-0"



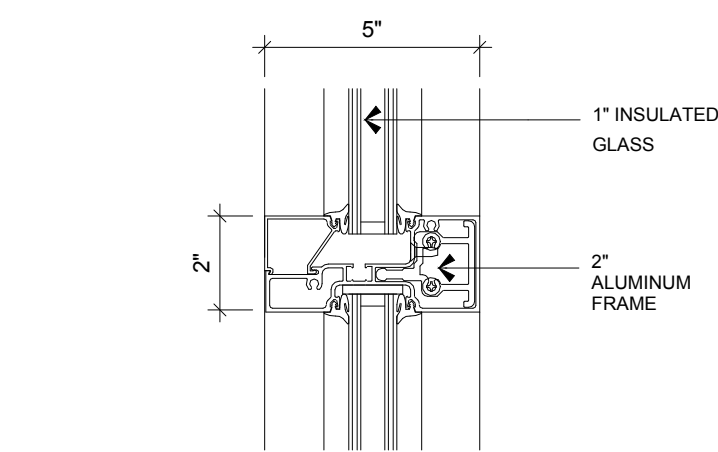
10 H.M. DOOR HEAD DTL.
SCALE: 3" = 1'-0"



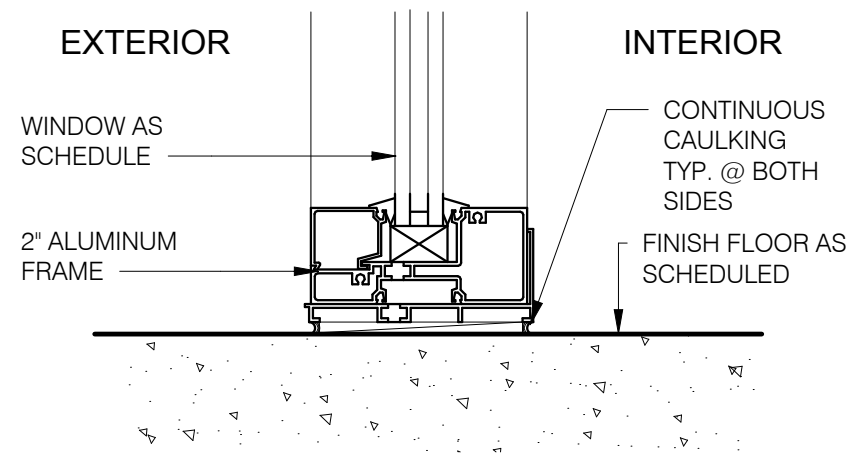
2 WD. JAMB DTL.
SCALE: 3" = 1'-0"



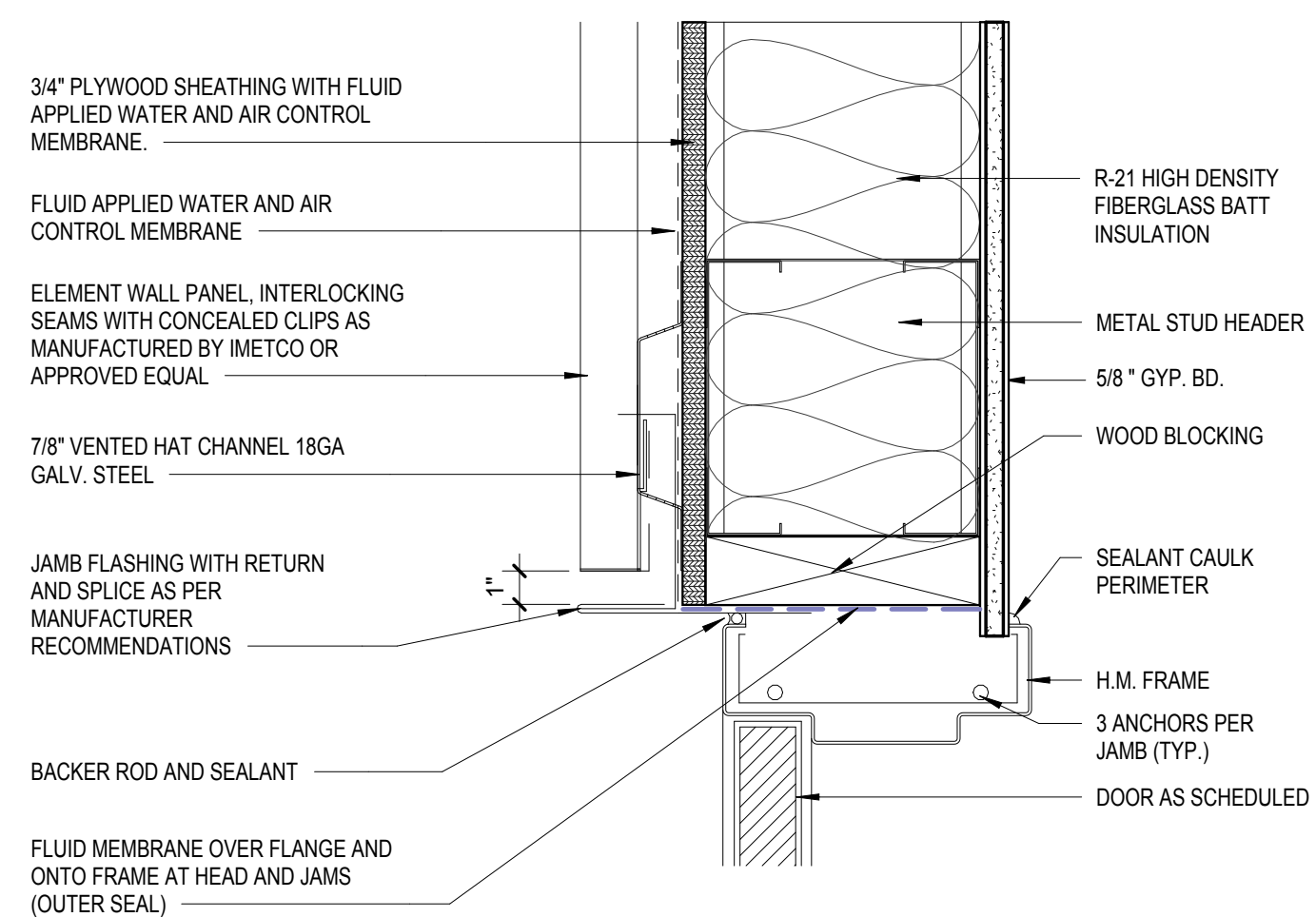
5 DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



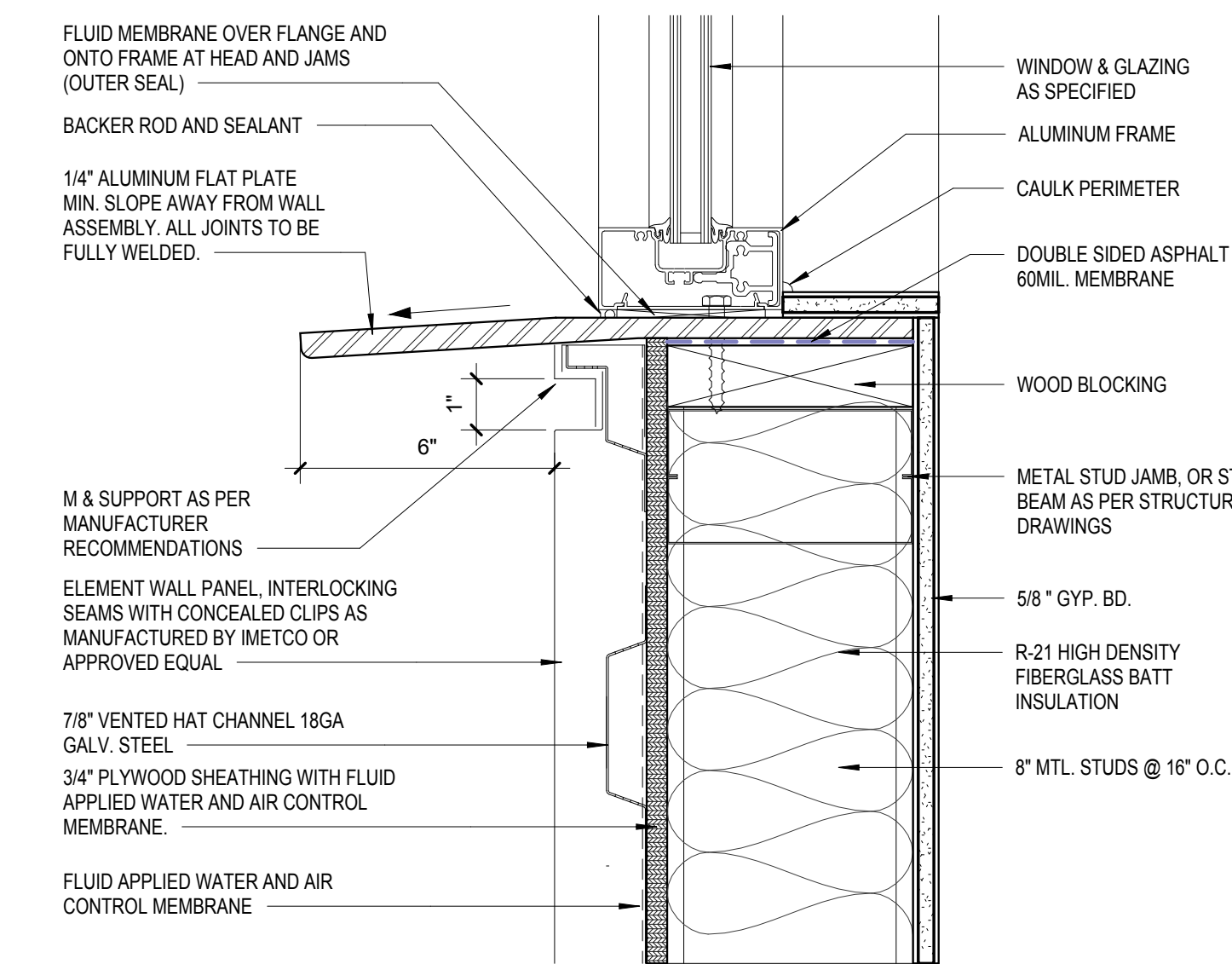
8 VERT. & HOR. MULLION
SCALE: 3" = 1'-0"



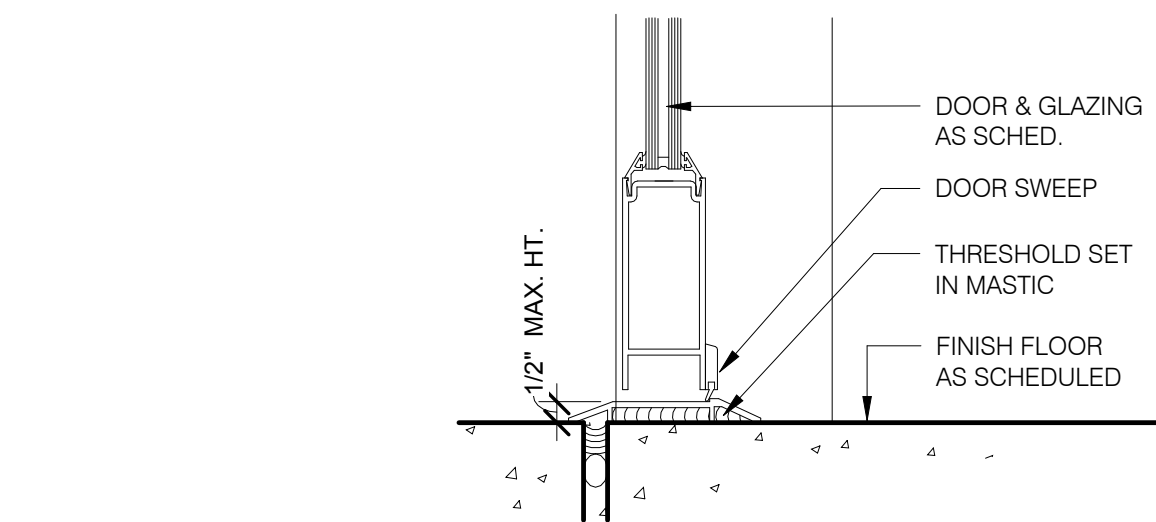
9 WD. SILL DETAIL
SCALE: 3" = 1'-0"



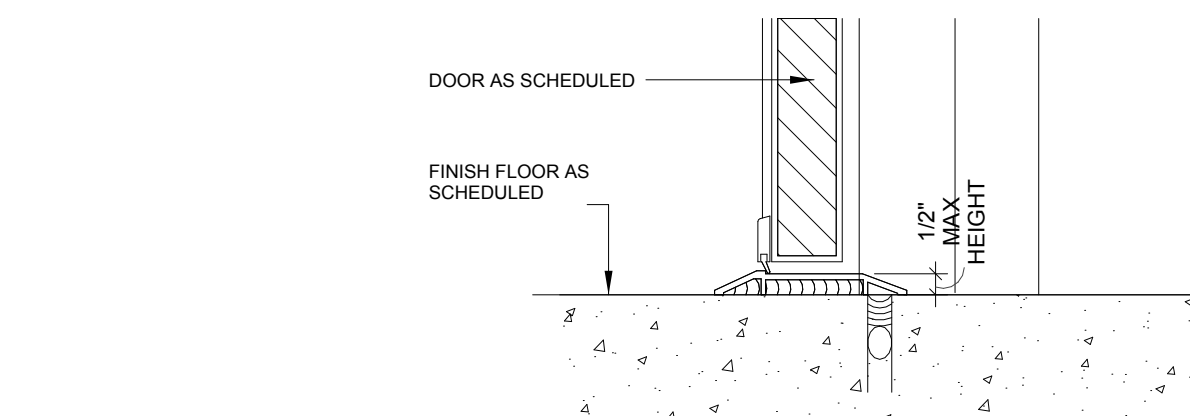
11 H.M. DOOR JAMB DTL.
SCALE: 3" = 1'-0"



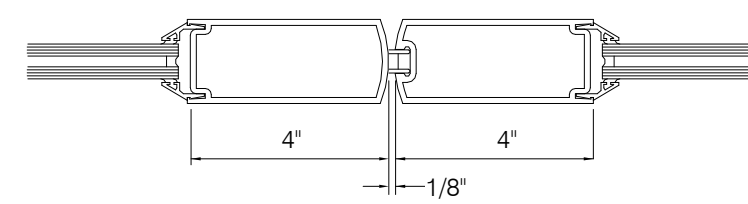
3 WD. SILL DTL.
SCALE: 3" = 1'-0"



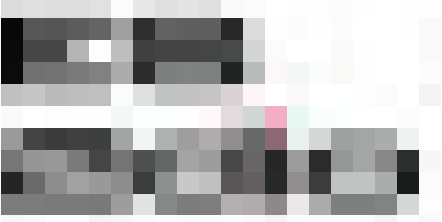
6 THRESHOLD DETAIL
SCALE: 3" = 1'-0"



12 DOOR SILL
SCALE: 3" = 1'-0"



13 DOOR MEETING STILES DTL.
SCALE: 3" = 1'-0"



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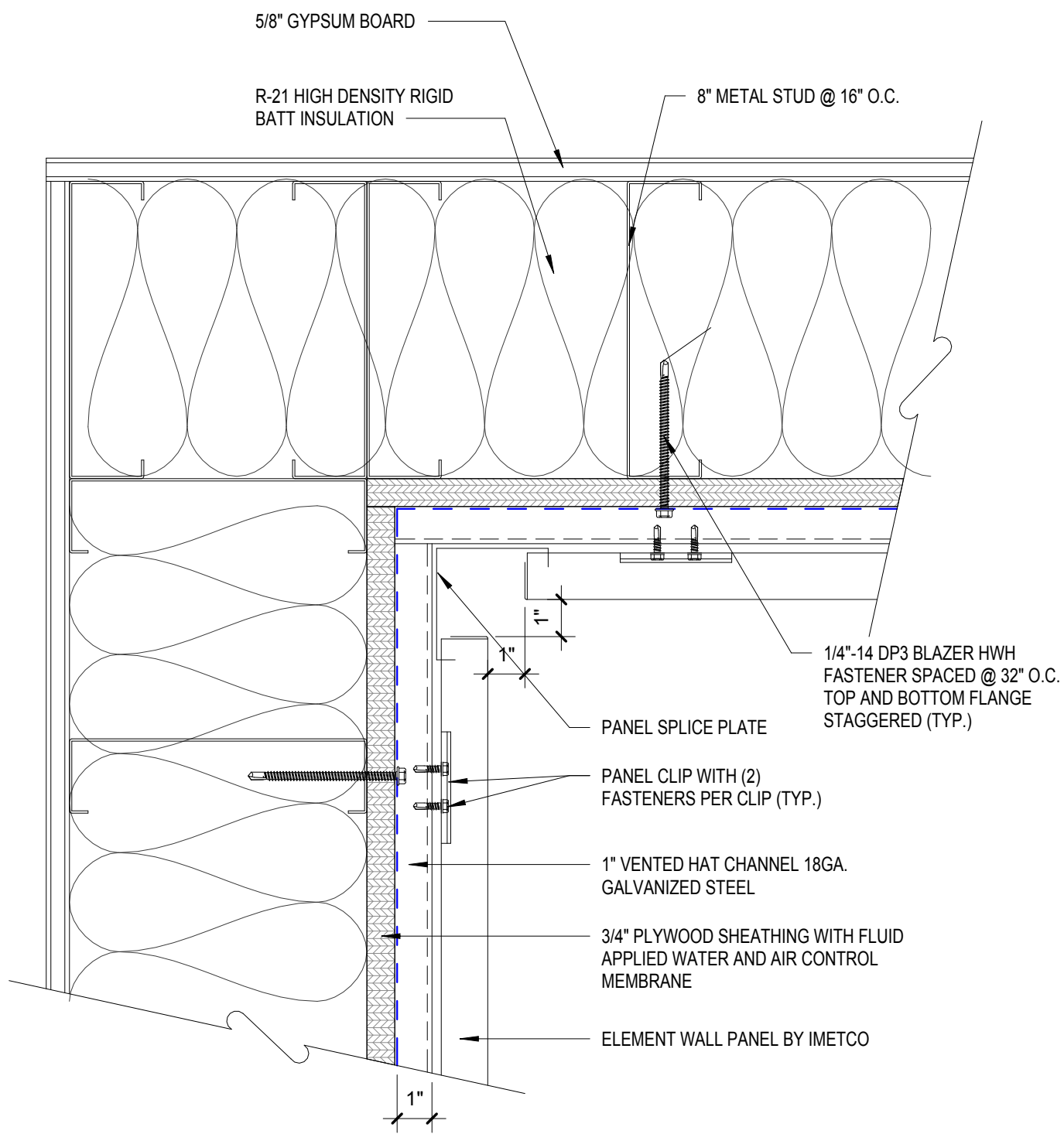
Architect Seal:

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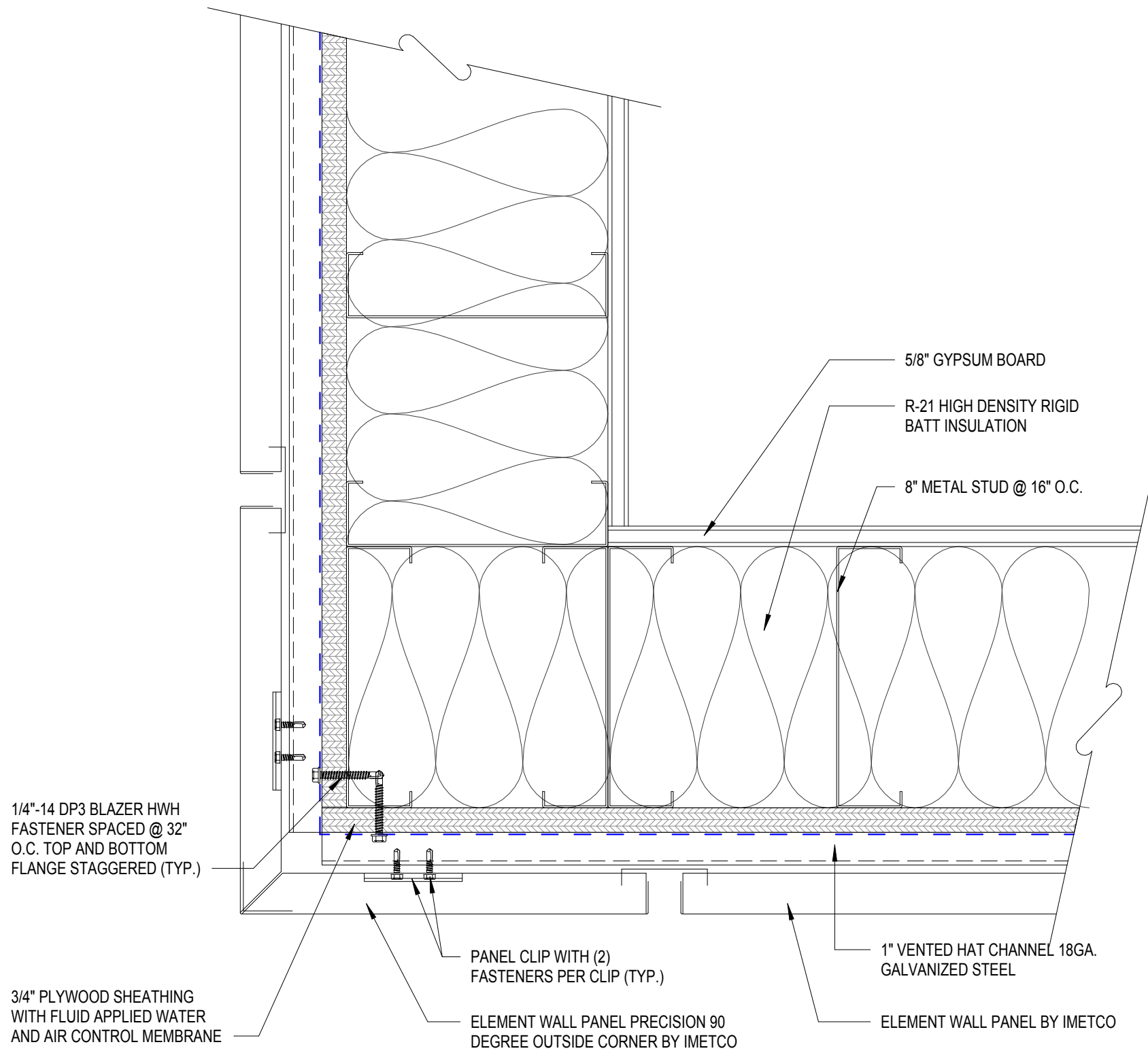
07/15/24

Date:	07/15/24
Revised:	--
Project No.	2407
Drawn By:	JSM/SEE
Checked By:	EE
File Name:	
Sheet Title:	WINDOW DETAILS
Sheet No.	

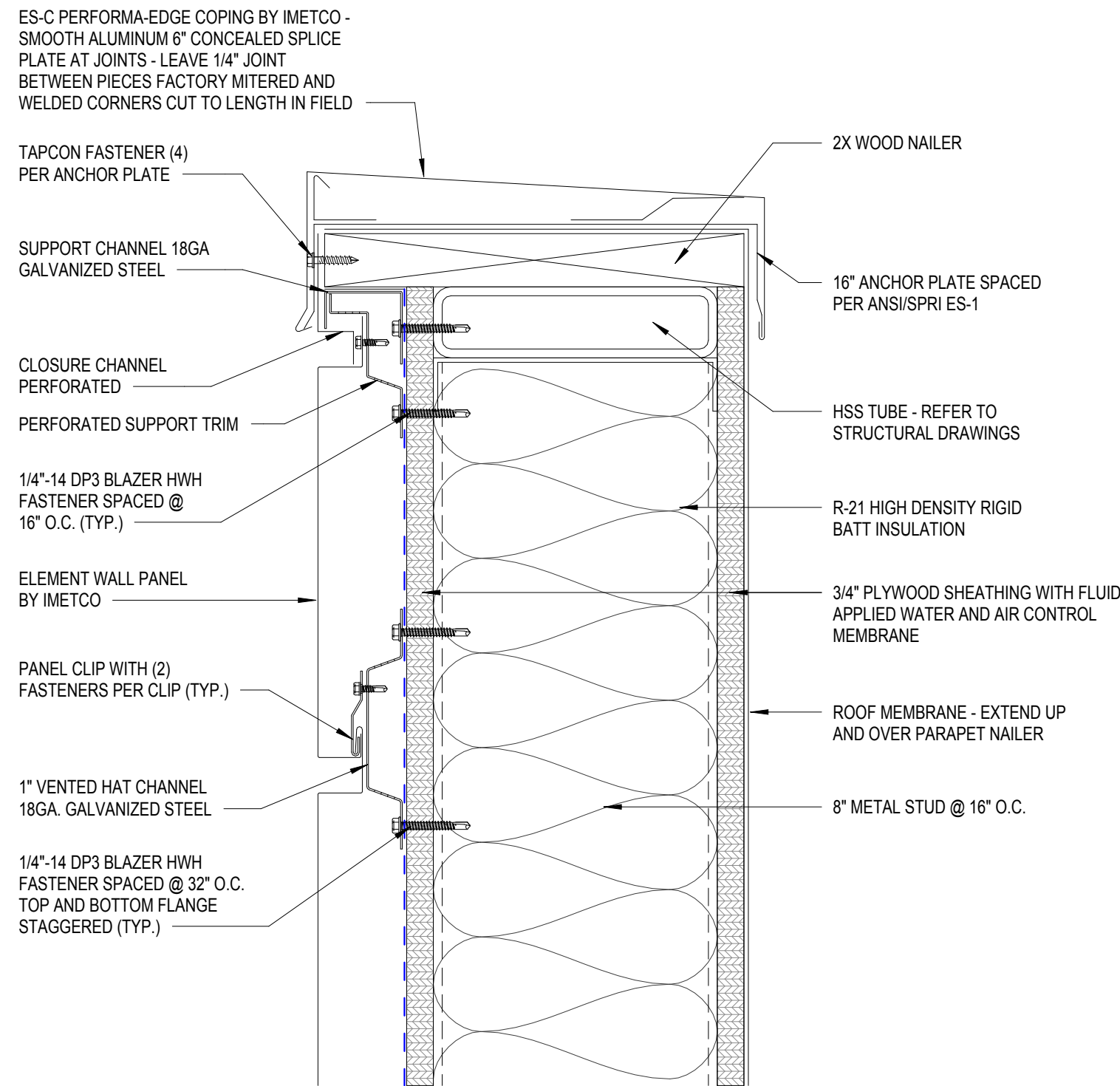
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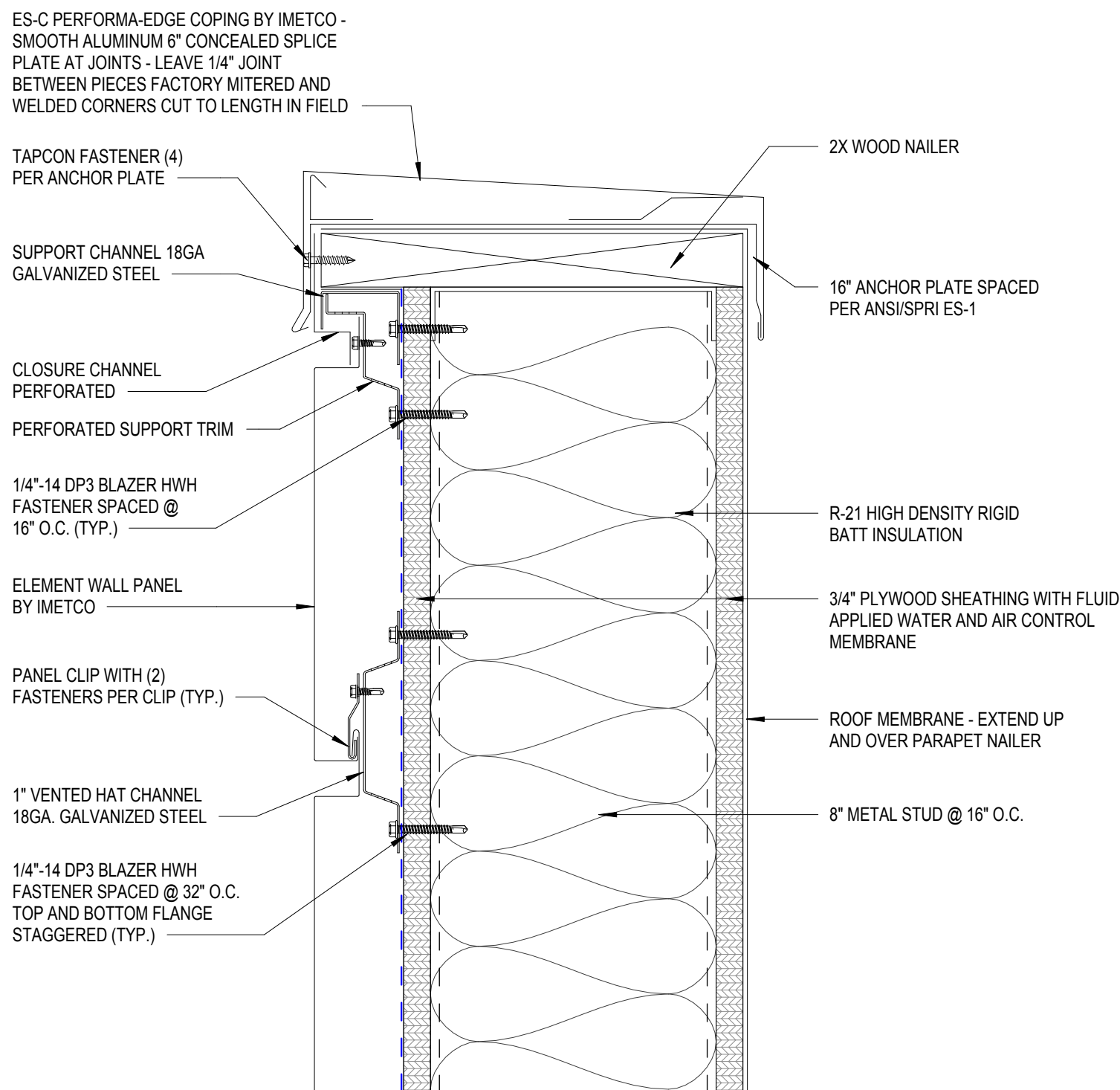
1 WALL PANEL DETAIL - INSIDE CORNER
SCALE: 3" = 1'-0"



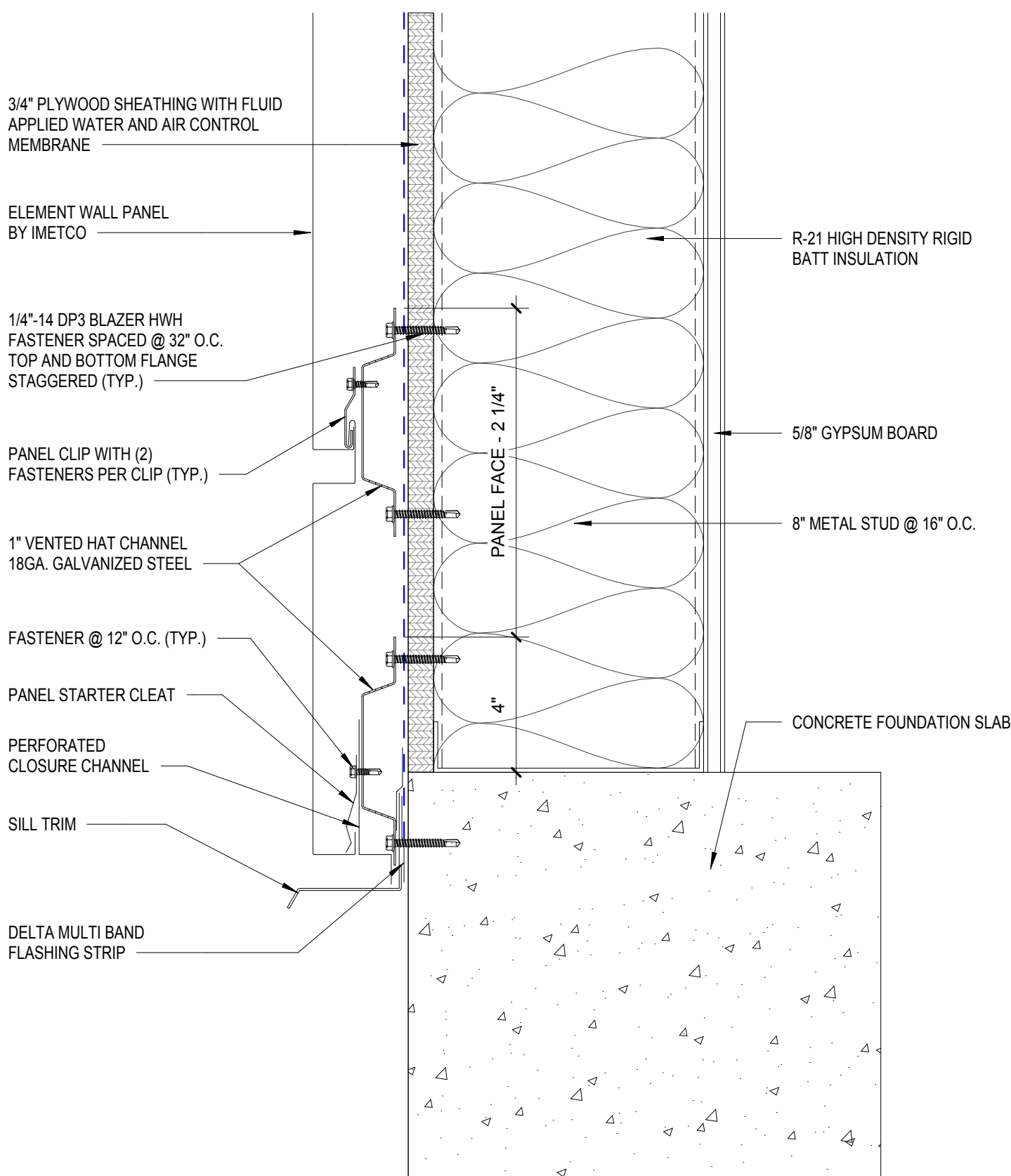
2 WALL PANEL DETAIL - OUTSIDE CORNER
SCALE: 3" = 1'-0"



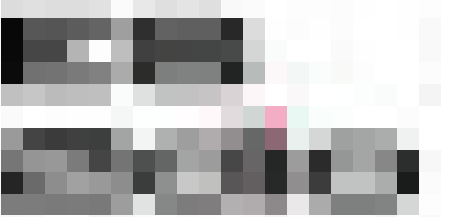
3 WALL PANEL DETAIL - PARAPET-1
SCALE: 3" = 1'-0"



4 WALL PANEL DETAIL - PARAPET-2
SCALE: 3" = 1'-0"



5 WALL PANEL DETAIL - SILL
SCALE: 3" = 1'-0"



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Drawn By: Author

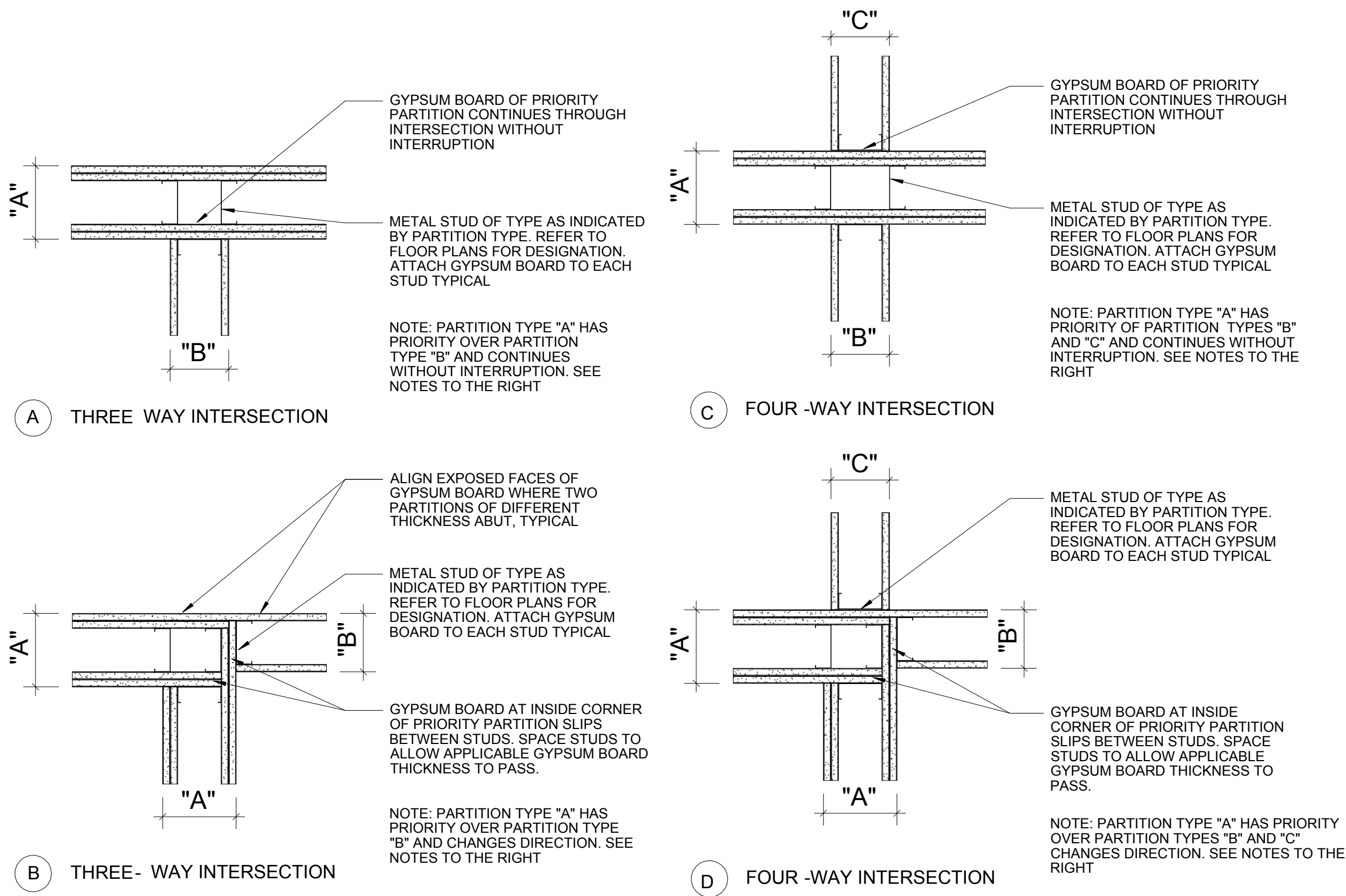
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Sheet Title:
METAL PANEL TYP. DTLS.

Sheet No.

A7.7



TYPICAL UNLESS OTHERWISE NOTED AND/OR DETAILED

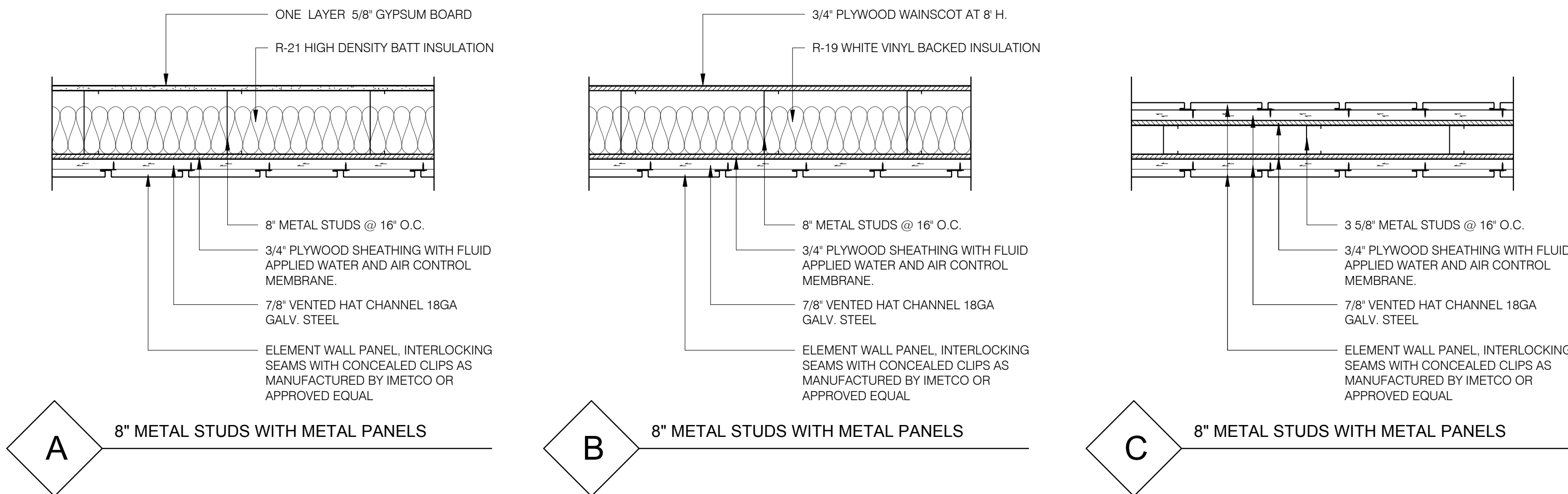
1 INTERSECTION FRAMING AND PRIORITY OF PARTITIONS

SCALE: 1 1/2" = 1'-0"

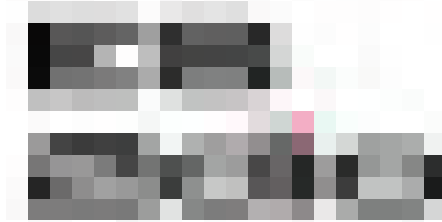
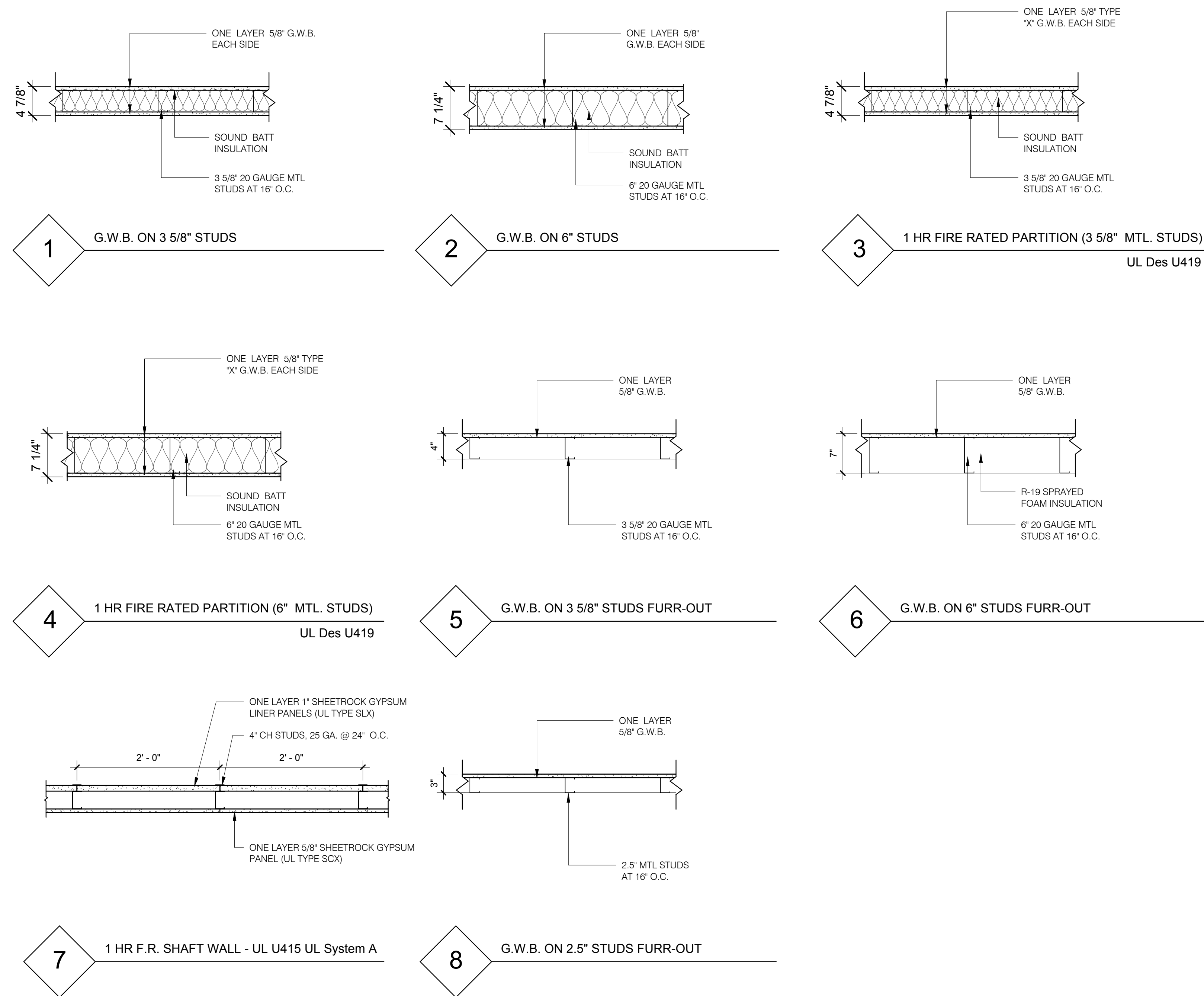
PARTITION GENERAL NOTES

- PROVIDE ACOUSTICAL SEALANT AT ALL PARTITION PERIMETERS, RUNNERS, ELECTRICAL OUTLETS, PENETRATIONS, METAL DECKING FLUTES, AND OPENINGS TO MINIMIZE SOUND TRANSMISSION. ELECTRICAL OUTLETS SHALL BE SEPARATED BY MINIMUM ONE STUD. BACK TO BACK RECEPTACLES ARE NOT ACCEPTABLE.
- AT SCHEDULED PARTITION TYPES, WHERE REQUIRED STUD WIDTH CANNOT BE INSTALLED, PROVIDE STUD WIDTH OF SUITABLE GAUGE OR APPROPRIATELY BRACED TO SUIT JOB CONDITION.
- GWB CONSTRUCTION SHALL BE ISOLATED WITH CONTROL JOINTS WHERE PARTITIONS OR CEILINGS OF DISSIMILAR CONSTRUCTION MEET AND REMAIN IN THE SAME PLANE AND WHERE EXPANSION OR CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE OR WALL CONSTRUCTION.
- PROVIDE CONTROL JOINTS IN THE FACE OF GWB PARTITIONS AND CEILINGS WHEN THE SIZE OF THE SURFACE EXCEEDS THE FOLLOWING CONTROL JOINT SPACING:
 - PARTITIONS: 30' MAXIMUM IN EITHER DIRECTION.
 - CEILINGS 50' MAX. IN EITHER DIRECTION (W/ PERIMETER RELIEF).
 - 30' MAX. IN EITHER DIRECTION (W/O PERIMETER RELIEF).
- PROVIDE SOLID BLOCKING AT ALL WALLS RECEIVING WALL MOUNTED EQUIPMENT AND/OR ACCESSORIES. COORDINATE WITH ALL TRADES & OWNERS EQUIPMENT/FURNITURE LAYOUTS.
- ALL SUB SURFACE GYP. BD. TO BE HUNG VERTICALLY WITH ALL SURFACE GYP. BD. HUNG HORIZONTALLY WHERE GWB PARTITION CONSISTS OF MULTIPLE LAYERS OF GYP. BD.
- METAL STUDS IN CHASE PARTITIONS TO BE BRACED TO EACH OTHER @ 1/3 POINTS.
- AT WET AREAS, ALL GWB TO BE MOISTURE RESISTANT TYPE. AT CERAMIC TILE AREAS, PROVIDE CEMENT BACKER UNIT (CEMENT BOARD) IN LIEU OF GWB TO RECEIVE CERAMIC TILE
- ALL PARTITIONS TO RECEIVE 3" SOUND ATTENUATION BLANKET UNLESS OTHERWISE NOTED. INSULATION BATTS CONTINUOUS WITHOUT GAPS AND TIGHT TO FRAMING. DO NOT COMPRESS BATTS.
- PROVIDE FIRE RATED PARTITIONS WHERE NOTED. FIRE STOP PENETRATIONS THROUGH ALL FULL HEIGHT WALLS AND GAP BETWEEN TOP OF WALL AND METAL DECK FLUTES. AT RATED WALLS, FIRE STOP TO EQUAL WALL RATING.
- WHERE GWB PARTITION EDGE ALIGNS WITH CMU PARTITIONS EDGE, ADJUST GWB ALIGNMENT SO THAT GWB SURFACE LAMINATED OVER CMU, EXTEND GWB TO CORNER.

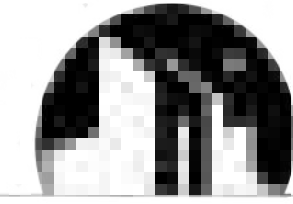
EXTERIOR WALL PARTITION SCHEDULE



INTERIOR WALL PARTITION SCHEDULE



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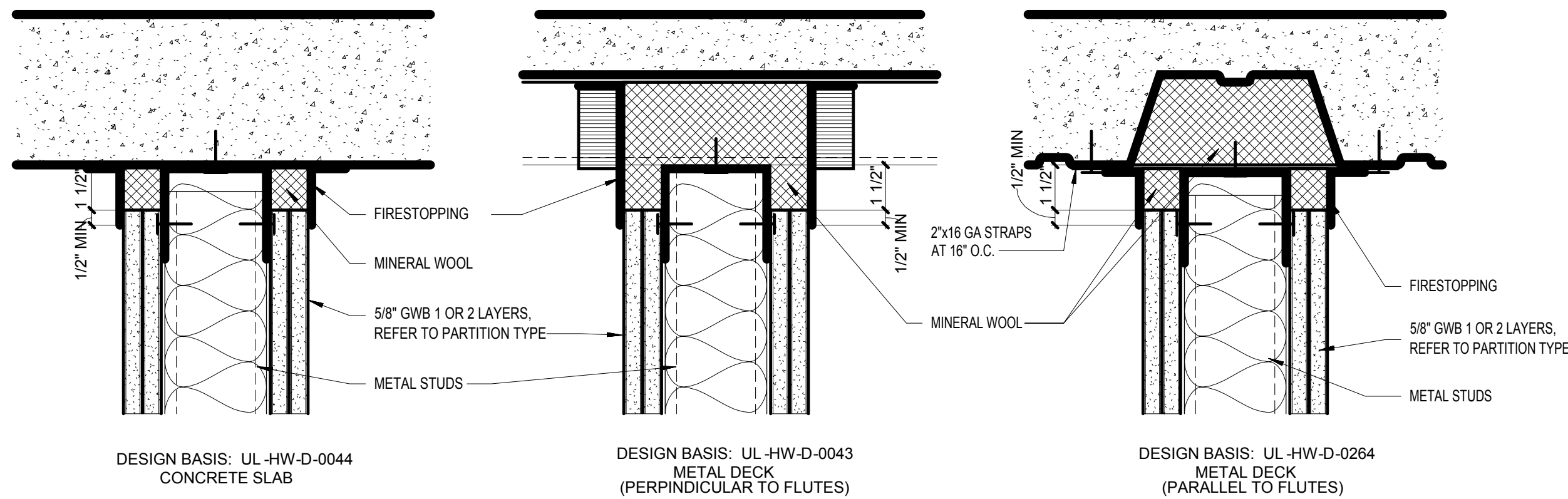
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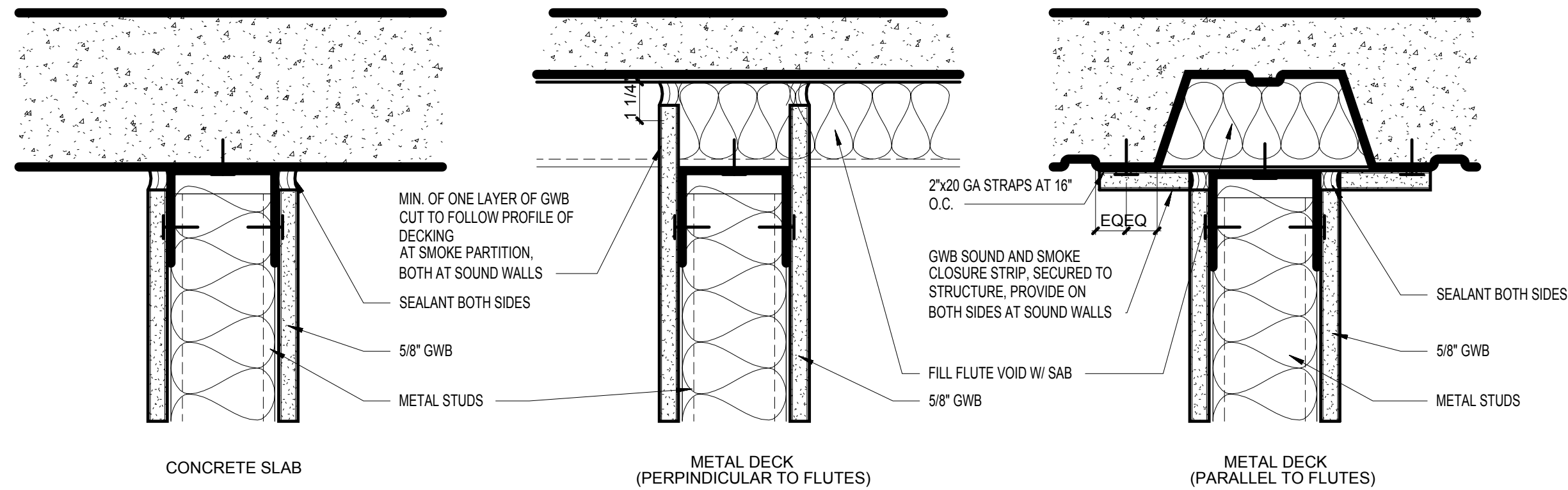
Date:	07/15/24
Revised:	--
Project No.	2407
Drawn By:	JSMS/EE
Checked By:	EE
File Name:	
Sheet Title:	WALL TYPES
Sheet No.	

A8.1



STUD PARTITIONS - FIRE RATED PARTITIONS

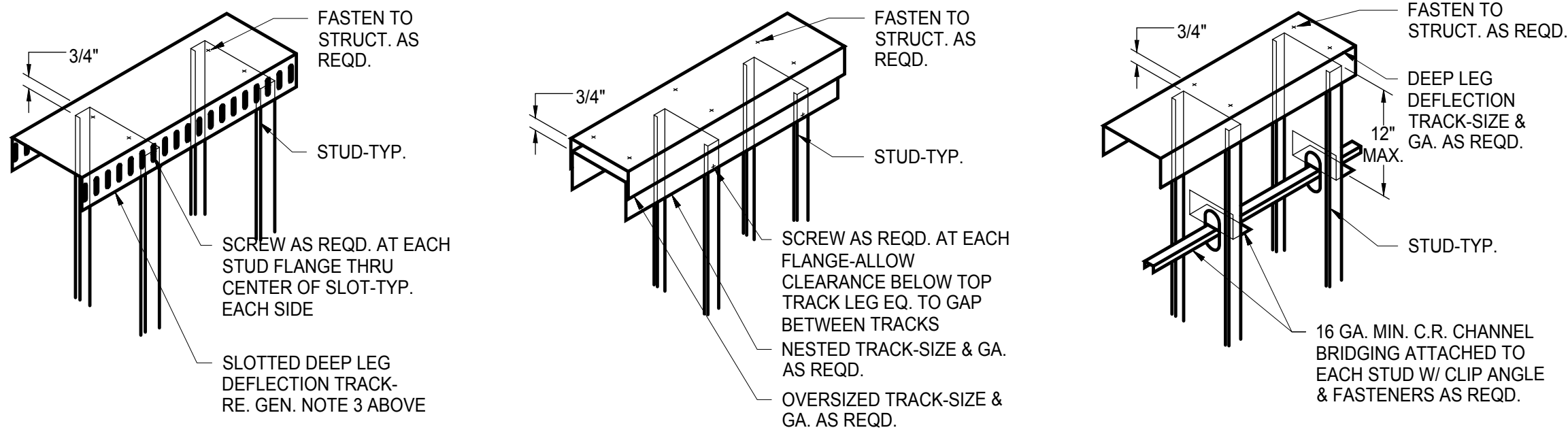
SCALE: 3"=1'-0"



STUD PARTITIONS - SMOKE PARTITIONS AND SOUND CONTROL

SCALE: 3"=1'-0"

(TYPICAL AT ALL CLASSROOMS AND CORRIDOR WALL PARTITIONS)



SLOTTED TRACK

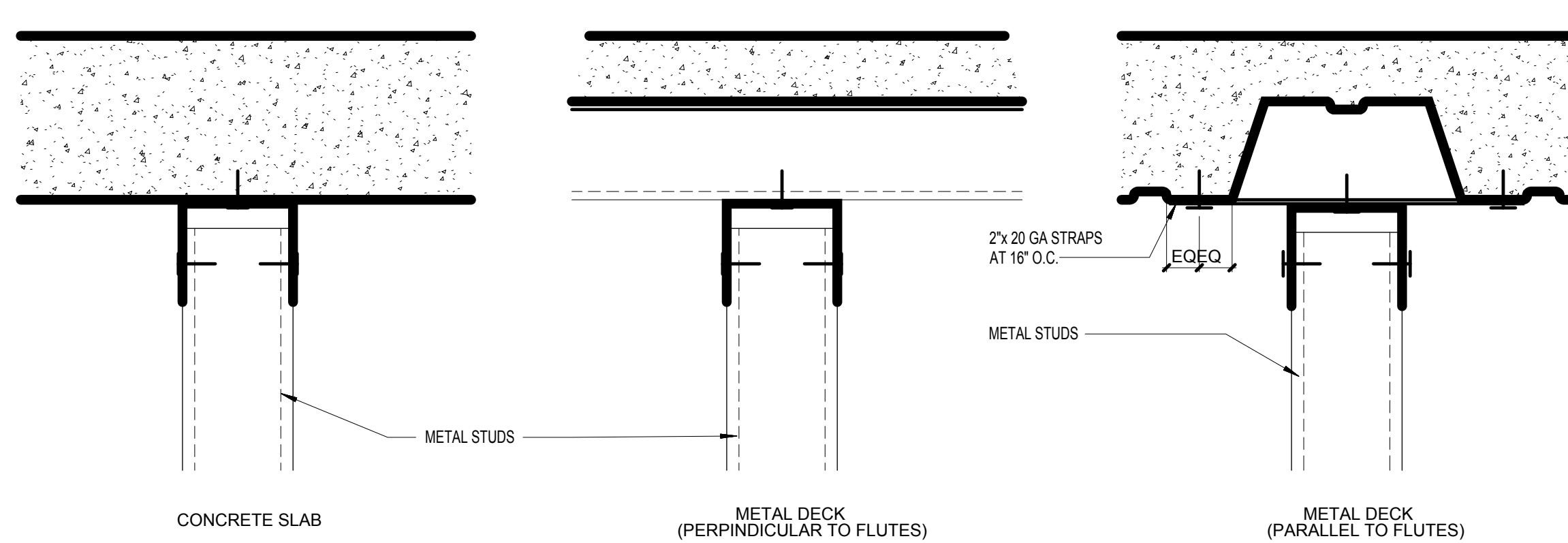
BASIS-OF-DESIGN

DOUBLE TRACK

CONTRACTOR OPTION

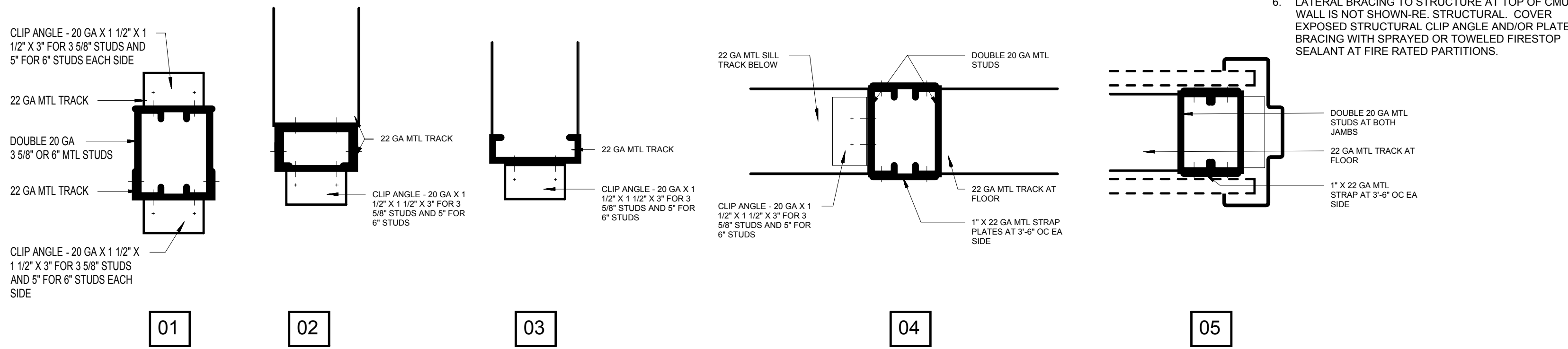
SINGLE TRACK W/ BRIDGING

CONTRACTOR OPTION



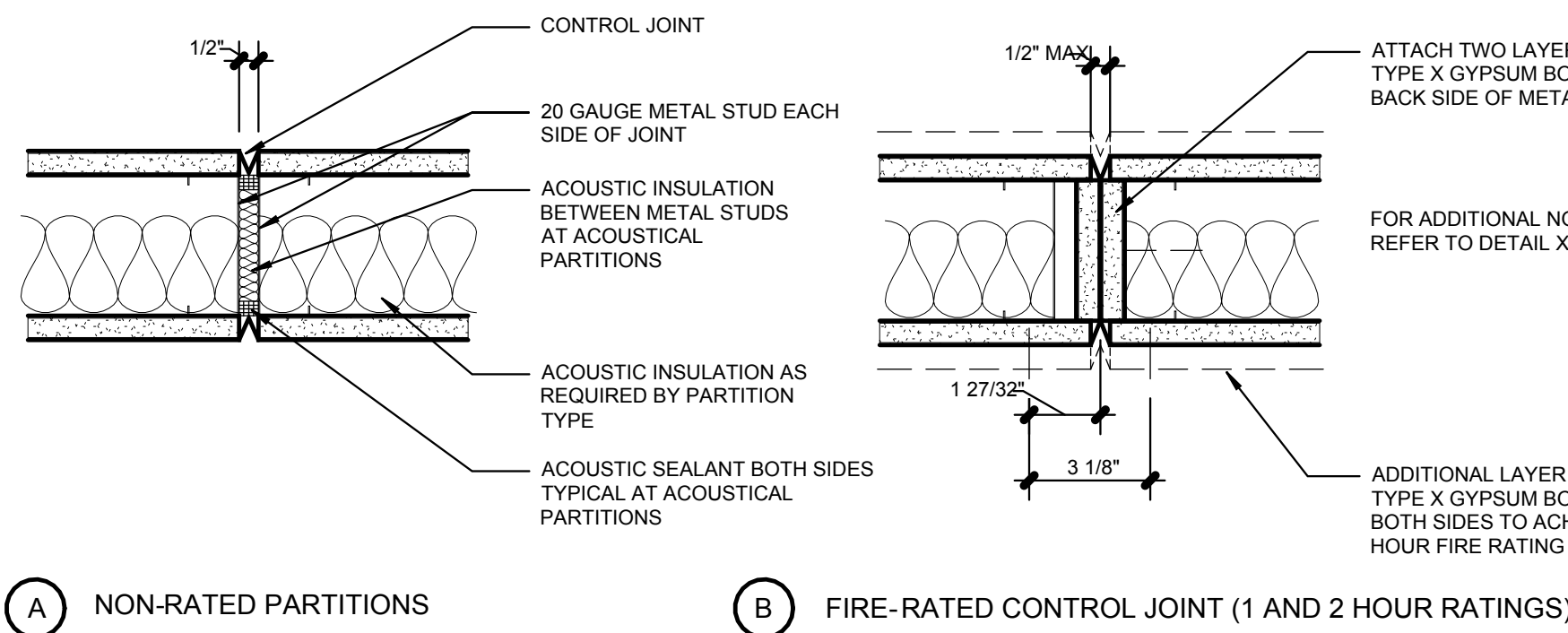
STUD PARTITIONS - NON-FIRE, NON-SMOKE, NON-SOUND CONTROL

SCALE: 3"=1'-0"



OPENING FRAMING

SCALE: 3"=1'-0"



A NON-RATED PARTITIONS

B FIRE-RATED CONTROL JOINT (1 AND 2 HOUR RATINGS)

TYPICAL CONTROL JOINTS AT METAL STUD PARTITIONS

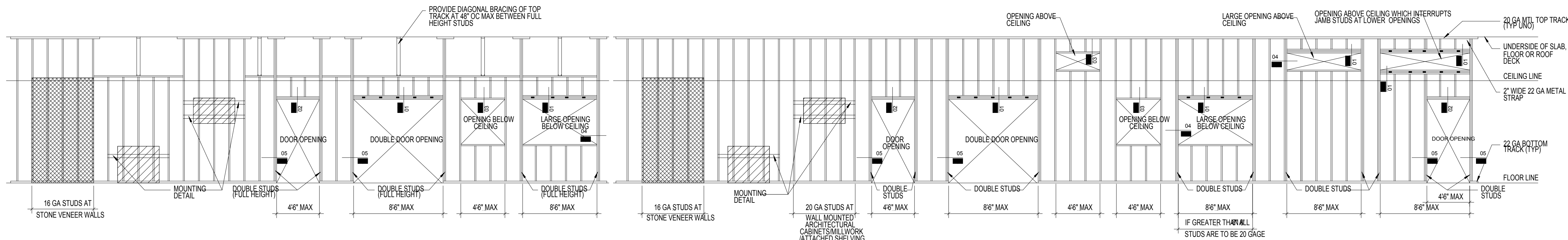
SCALE: 3"=1'-0"

GENERAL NOTES

- U.L. DESIGNS SHOWN ARE BASIS-OF-DESIGN ASSEMBLIES. CONTRACTOR MAY SUBMIT EQUIVALENT ASSEMBLIES AS SPECIFIED AND AS INDICATED IN DIAGRAMS BELOW FOR APPROVAL BY ARCHITECT.
- REFER TO SHEET A8.1 FOR WALL TYPES ASSEMBLIES
- TERMINATE FRAMING AT TOP OF ALL GYPSUM BOARD PARTITIONS AND FURRING EXTENDING TO STRUCTURE WITH A DEEP LEG DEFLECTION TRACK AND CUT STUDS SHORT AS REQD. DEFLECTION TRACK SYSTEM SHALL ALLOW FOR ANTICIPATED MAXIMUM DEFLECTION OF STRUCTURE PLUS ADDITIONAL CAPACITY REQD. TO ENSURE THAT GYPSUM BOARD, WALL FINISHES, AND METAL STUDS ARE UNAFFECTED BY MOVEMENT CYCLES; AND PARTITION HEAD SEALANT JOINT (WHERE INDICATED) REMAINS IN SOUND CONDITION DURING AND AFTER MOVEMENT CYCLES. BASIS-OF-DESIGN DEFLECTION TRACK SHALL BE CLARK DETRICH MAXTRAK; SLOTTED DEFLECTION TRACK WITH 2 1/2" DEEP LEGS AND 20 GAUGE THICKNESS (MIN.).
- FOR SMOKE RESISTANT PARTITIONS, CONTRACTOR MAY USE HEAD OF WALL DETAILS SHOWN FOR FIRE RATED PARTITIONS, OR SIMILAR DETAILS WITH CONTINUOUS ACOUSTIC SEALANT IN LIEU OF FIRE RATED SEALANT.
- PROVIDE GROUT-FILLED REINFORCED BOND BEAM AT TOP OF ALL CMU PARTITIONS-RE. STRUCTURAL PROVIDE 2" GAP BETWEEN TOP OF FULL-HEIGHT CMU PARTITIONS AND STRUCTURE U.N.O. FILL GAP WITH COMPRESSED MINERAL WOOL AND SEAL AIRTIGHT WITH SEALANT AS REQD. AND/OR INDICATED.
- LATERAL BRACING TO STRUCTURE AT TOP OF CMU WALL IS NOT SHOWN-RE. STRUCTURAL COVER EXPOSED STRUCTURAL CLIP ANGLE AND/OR PLATE BRACING WITH SPRAYED OR TOWELED FIRESTOP SEALANT AT FIRE RATED PARTITIONS.

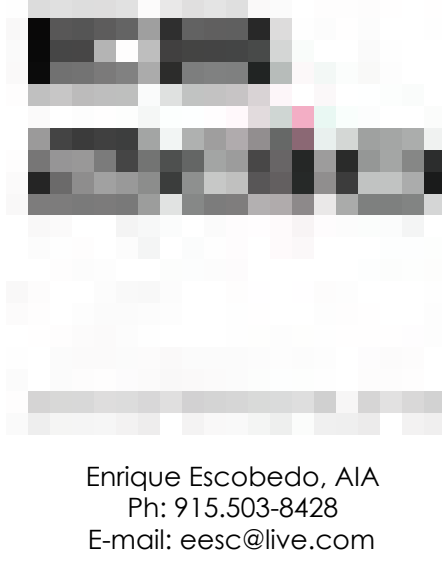
DEFLECTION TRACK DIAGRAMS

SCALE: 3"=1'-0"



INTERIOR PARTITION FRAMING

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



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i1 Warehouse & Office

for:

ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008

Number	Date	Description

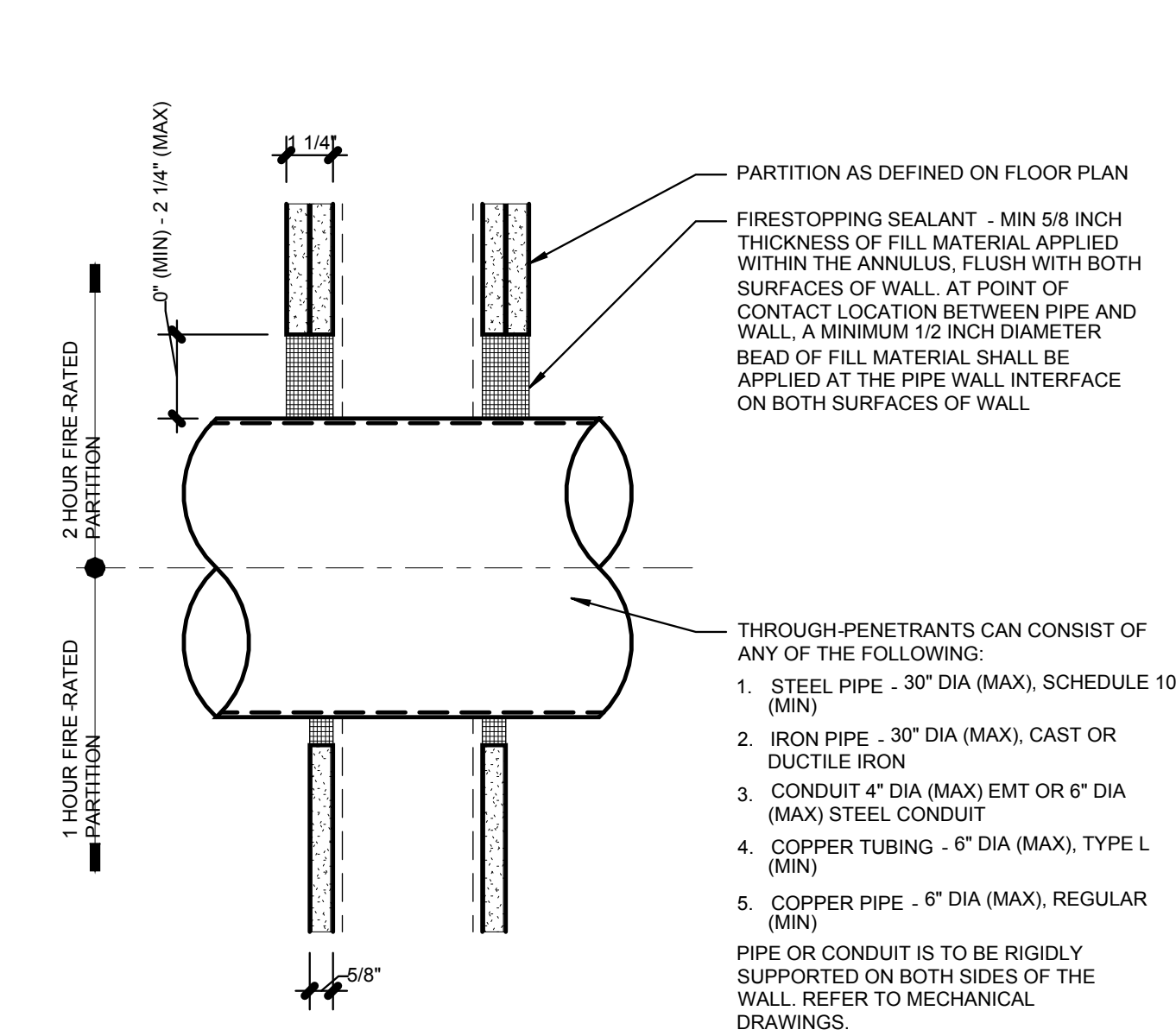
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"Not for Regulatory
Approval, Permitting
or
Construction."

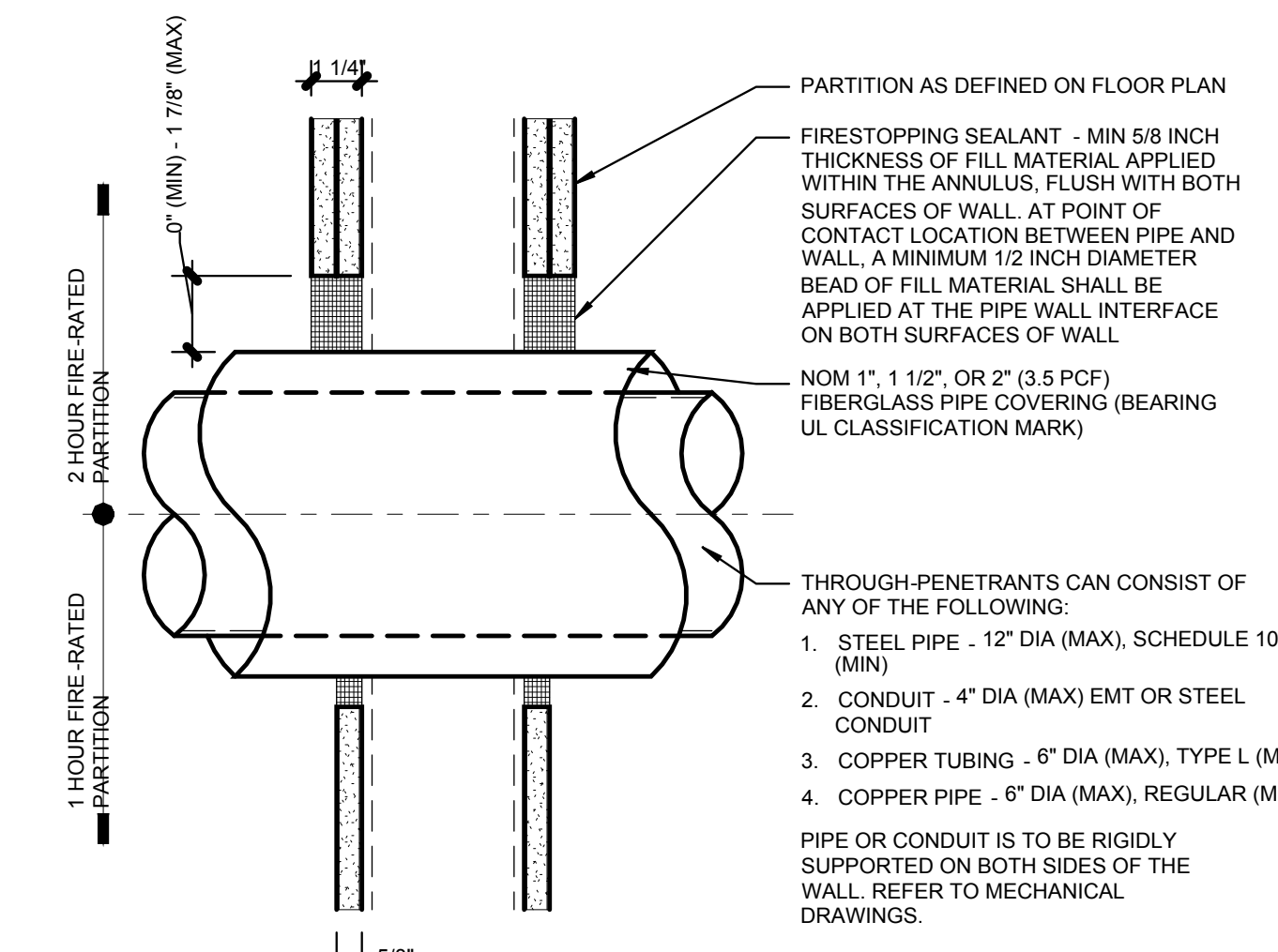
07/15/24

Date:	07/15/24
Revised:	—
Project No.	2407
Drawn By:	JSM/SEE
Checked By:	EE
File Name:	
Sheet Title:	INTERIOR PARTITION SYSTEMS DETAILS
Sheet No.	

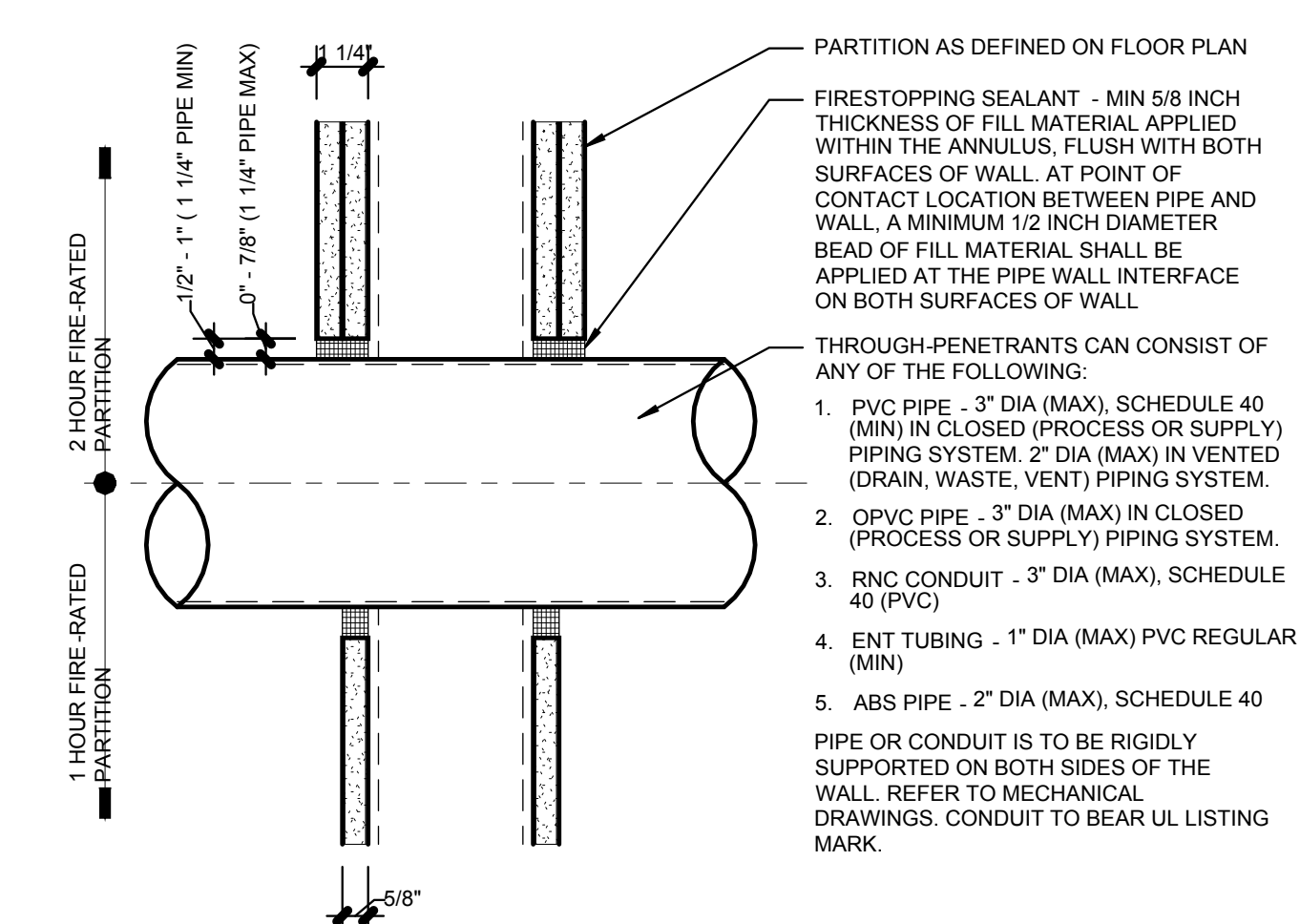
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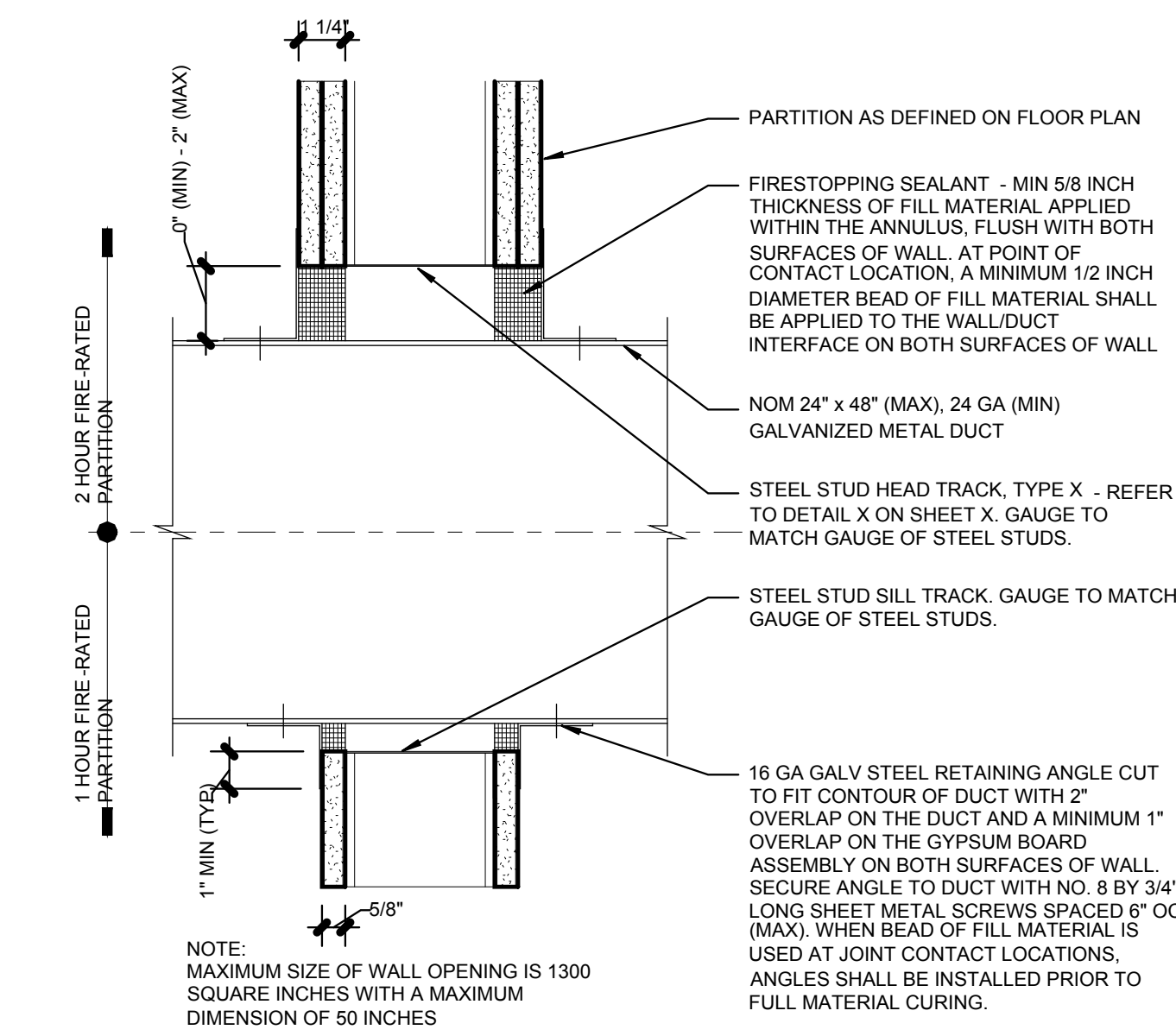
A METAL PIPES OR CONDUITS (UL DESIGN NO. WL-1054)



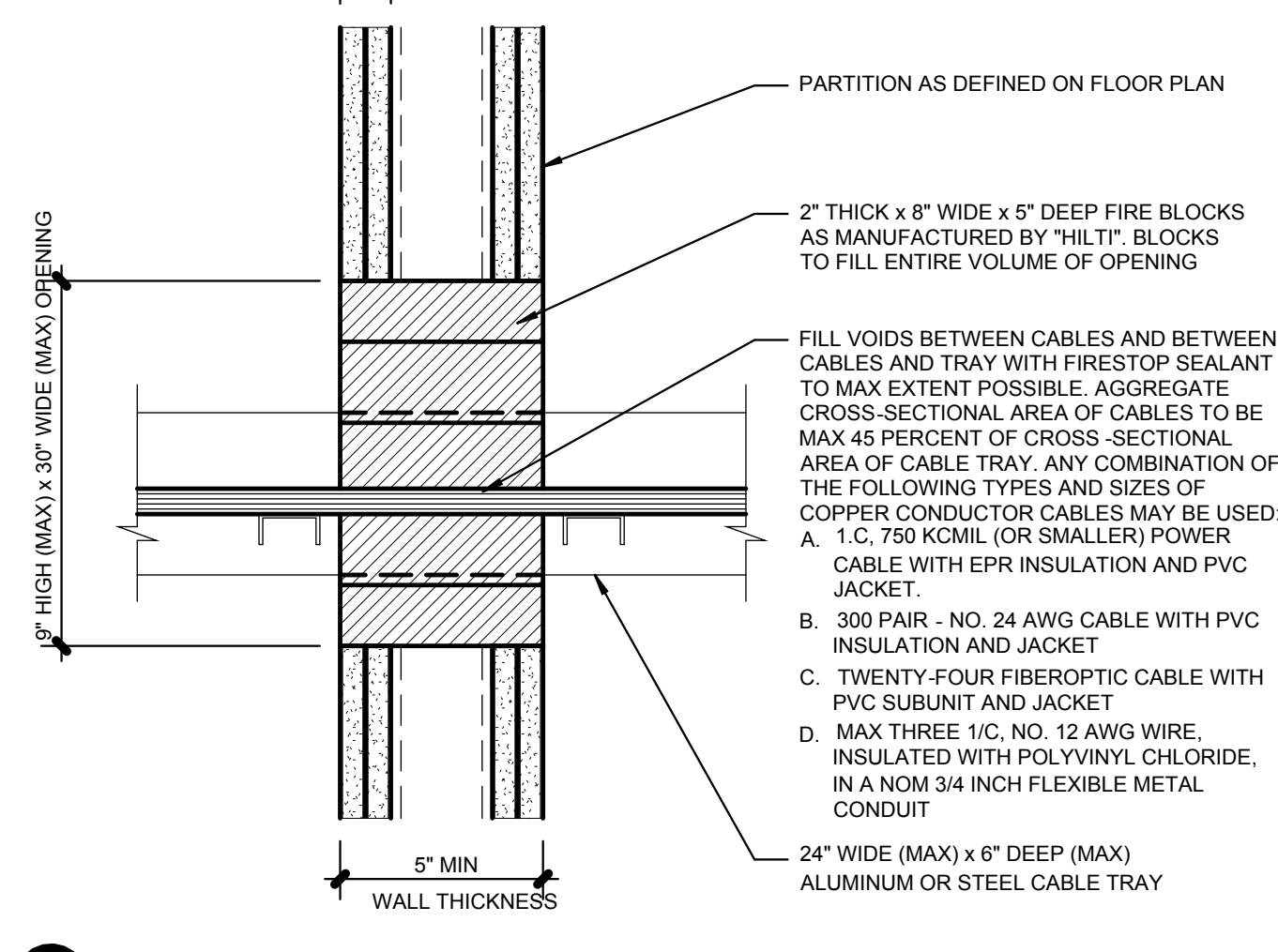
B INSULATED PIPES (UL DESIGN NO. WL-5029)



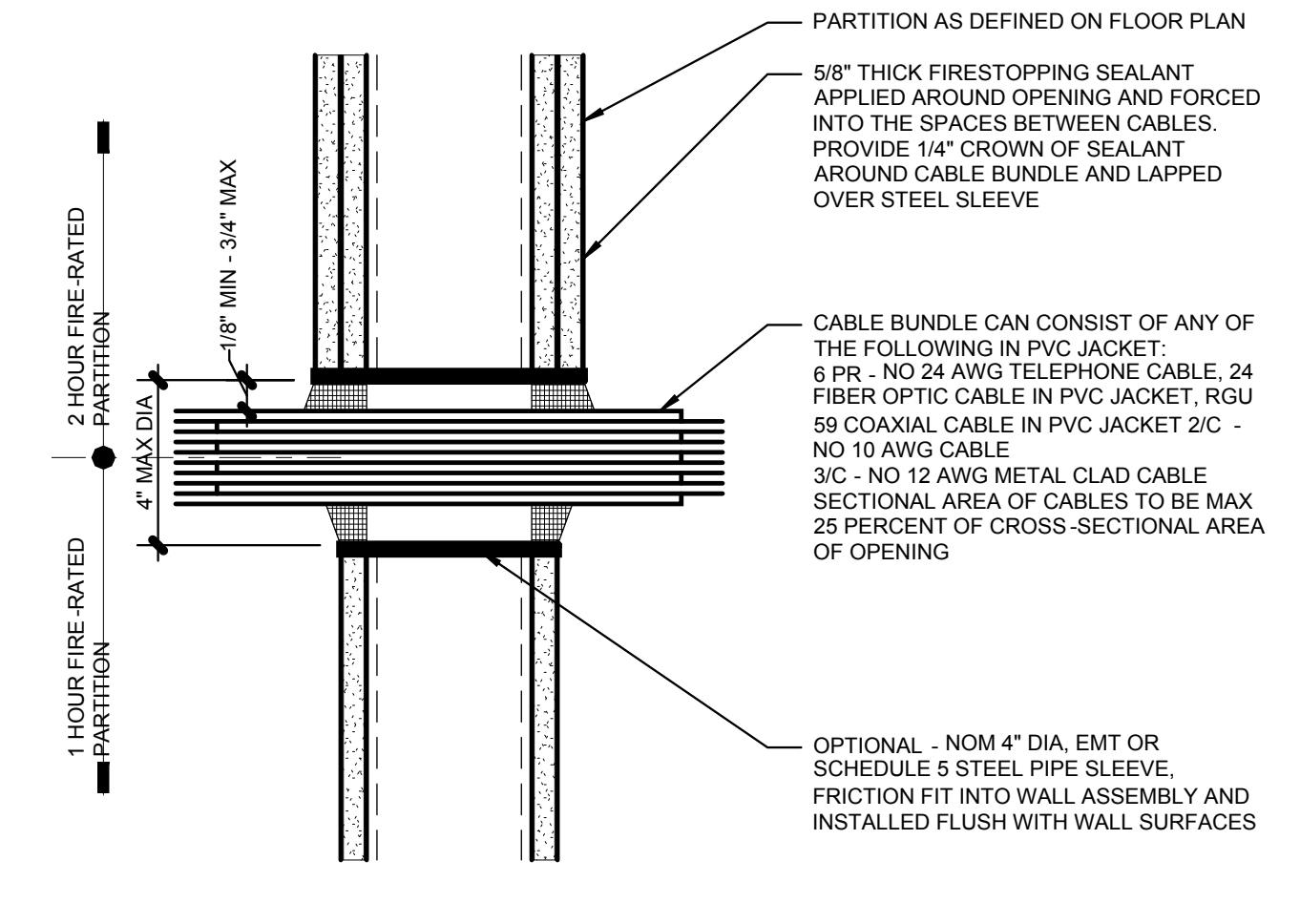
C NON-METALLIC PIPES OR CONDUIT (UL DESIGN NO. WL-2088)



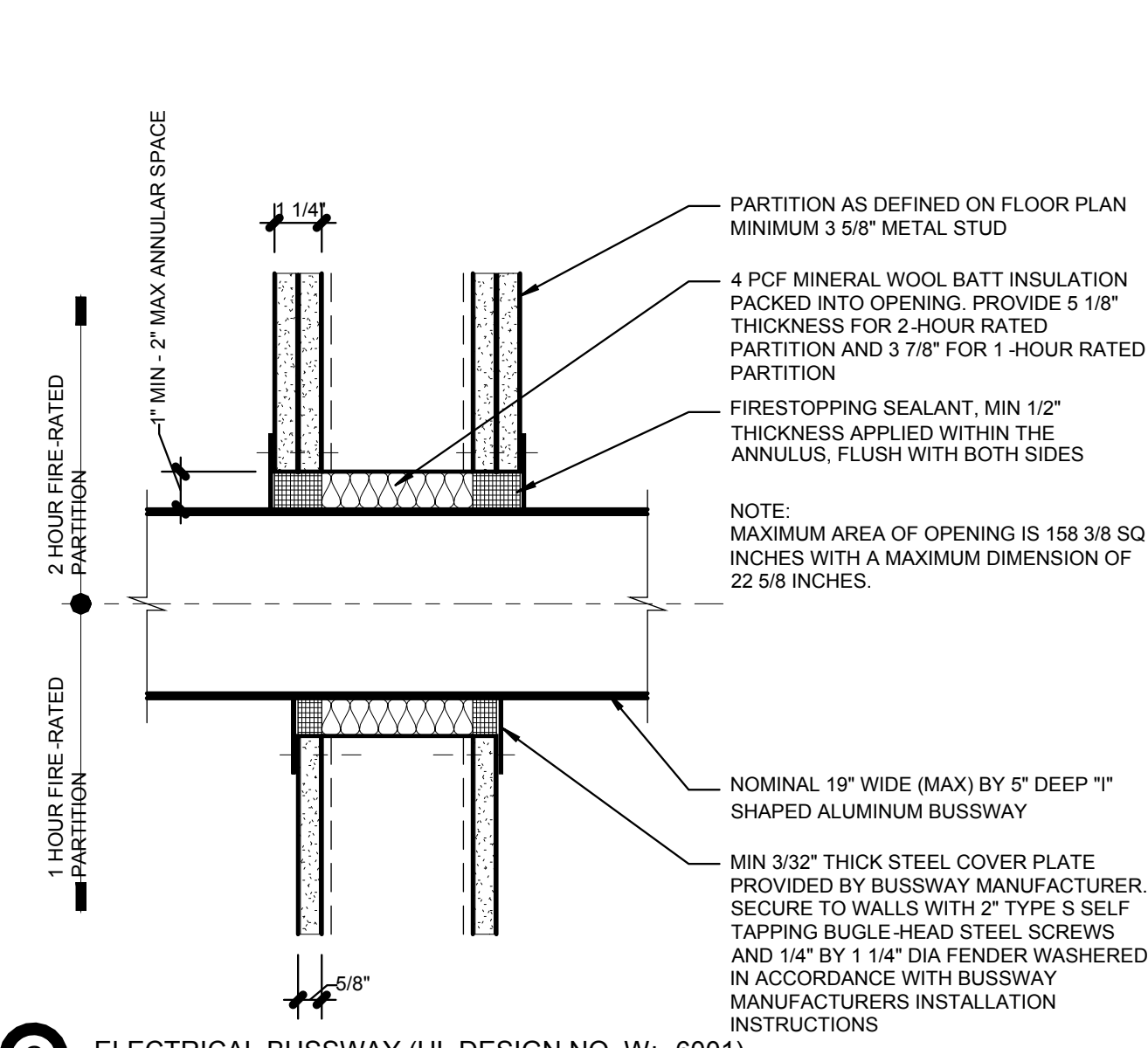
D METAL DUCT WITHOUT FIRE DAMPER (UL DESIGN NO. WL-7040)



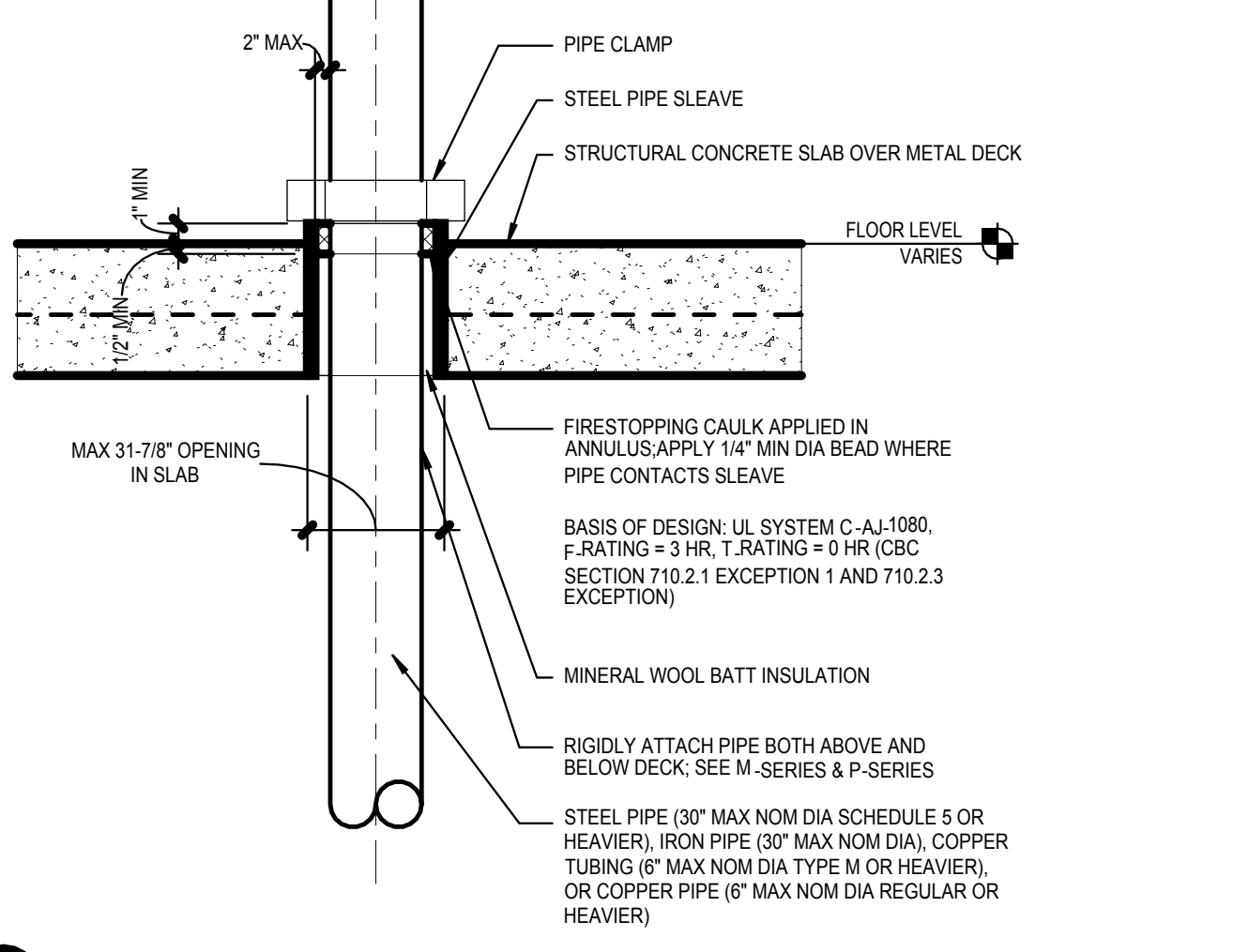
E CABLE TRAY (UL DESIGN NO. WL-4011)
NOTE: THIS IS BASED ON A 2-HOUR RATED ASSEMBLY. USE 1 LAYER OF 5/8\"/>



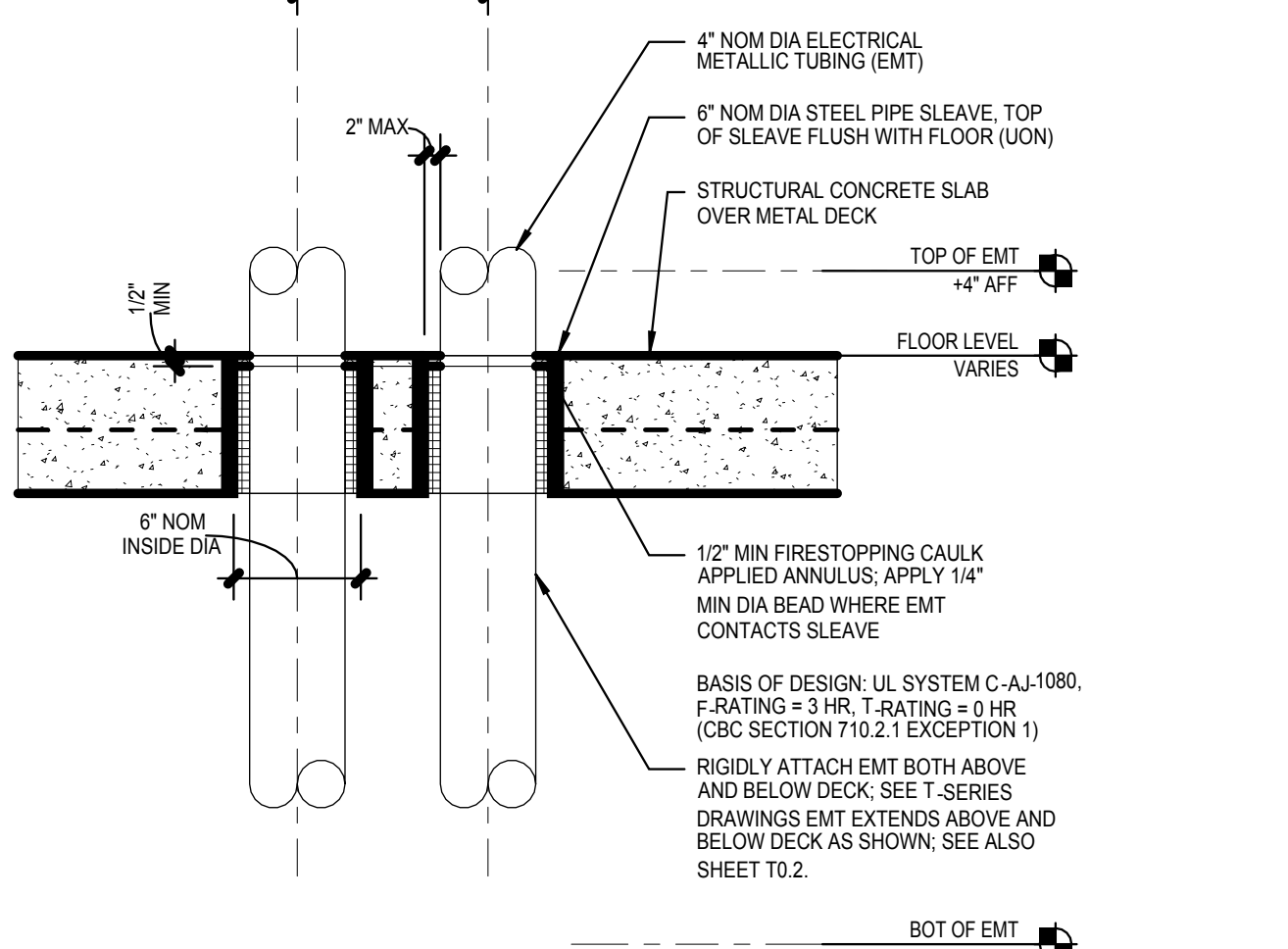
F CABLE BUNDLE IN METALLIC SLEEVE (UL DESIGN NO. WL-3111)



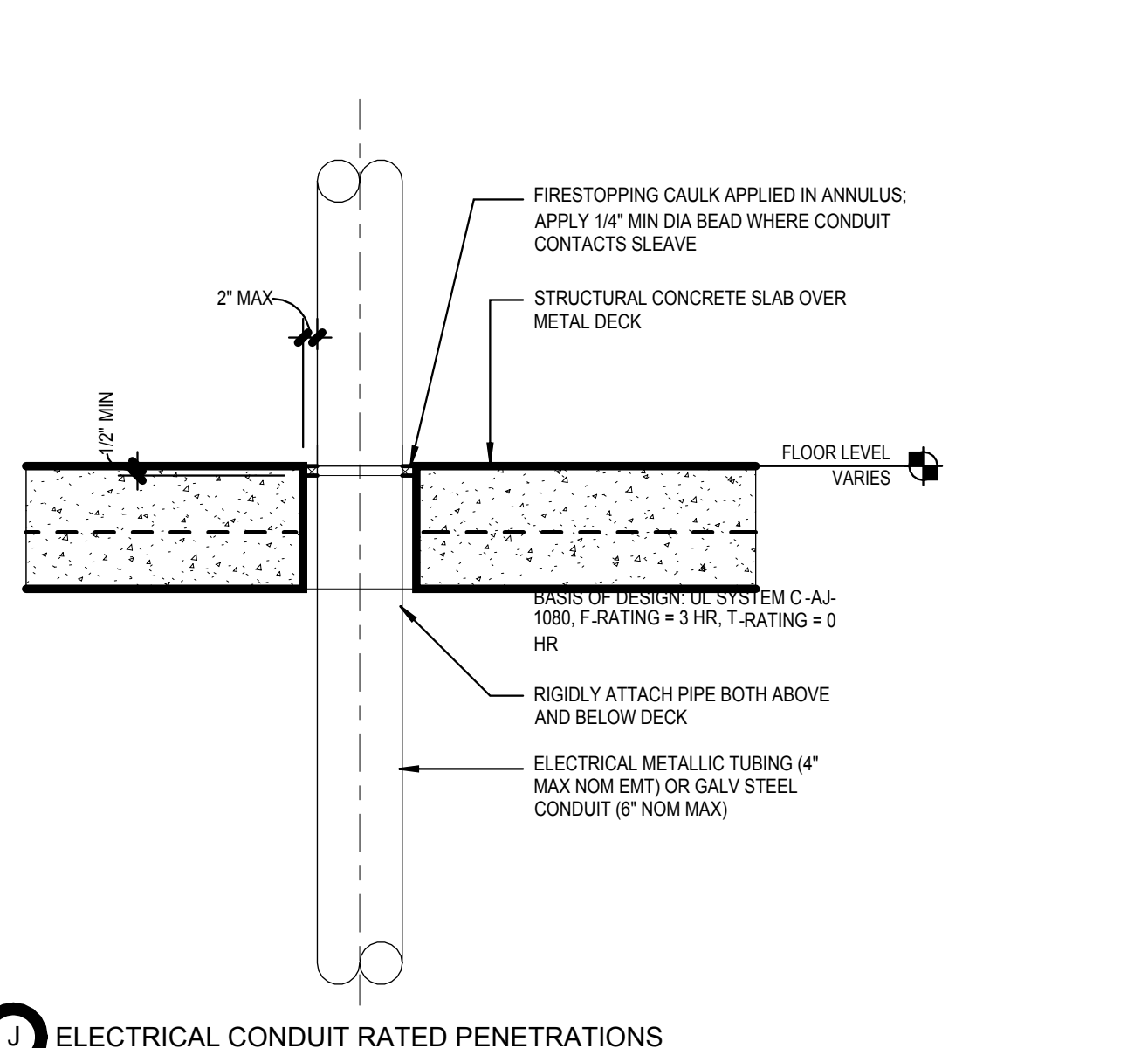
G ELECTRICAL BUSSWAY (UL DESIGN NO. WL-6001)



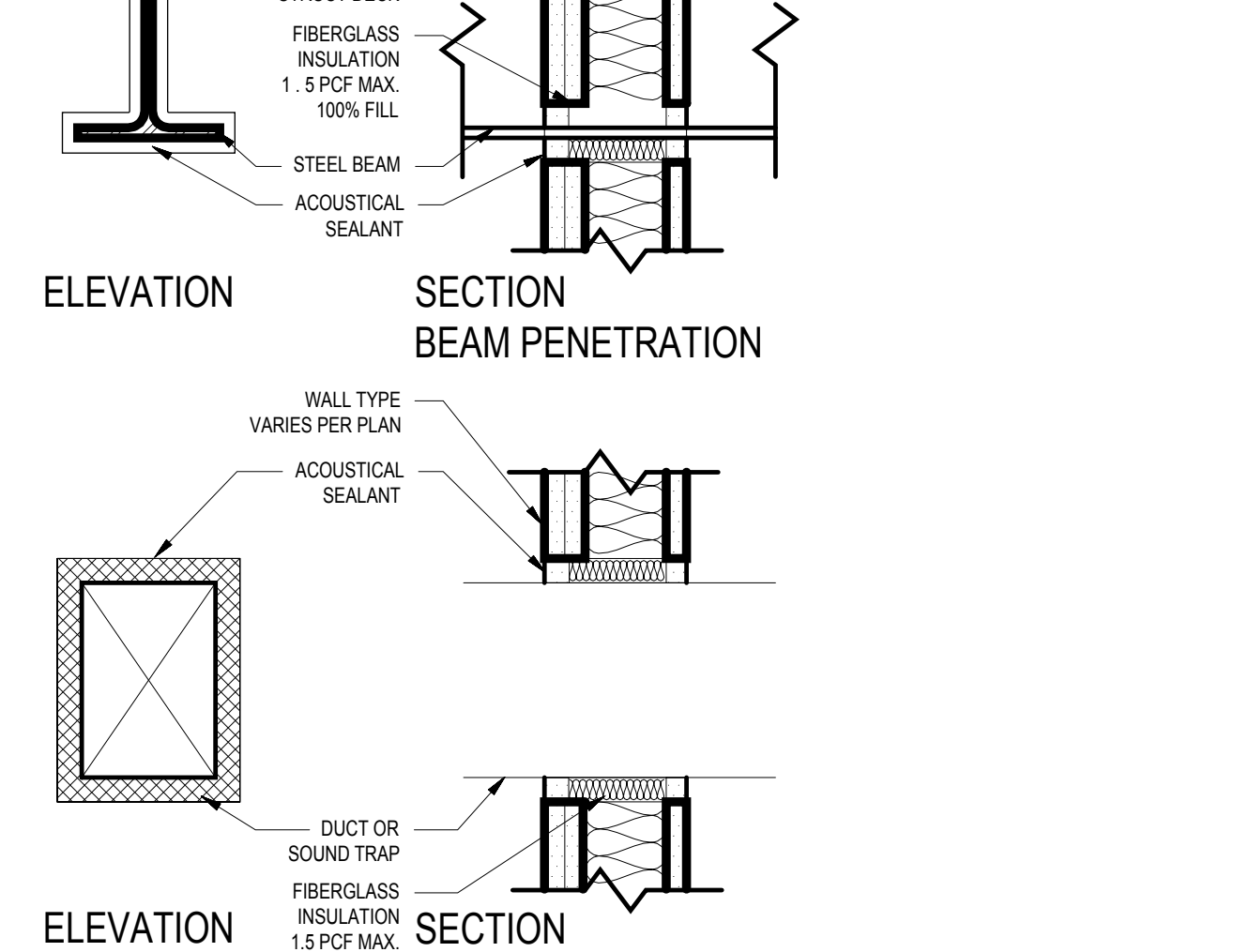
H MECHANICAL / PLUMBING RATED PENETRATIONS



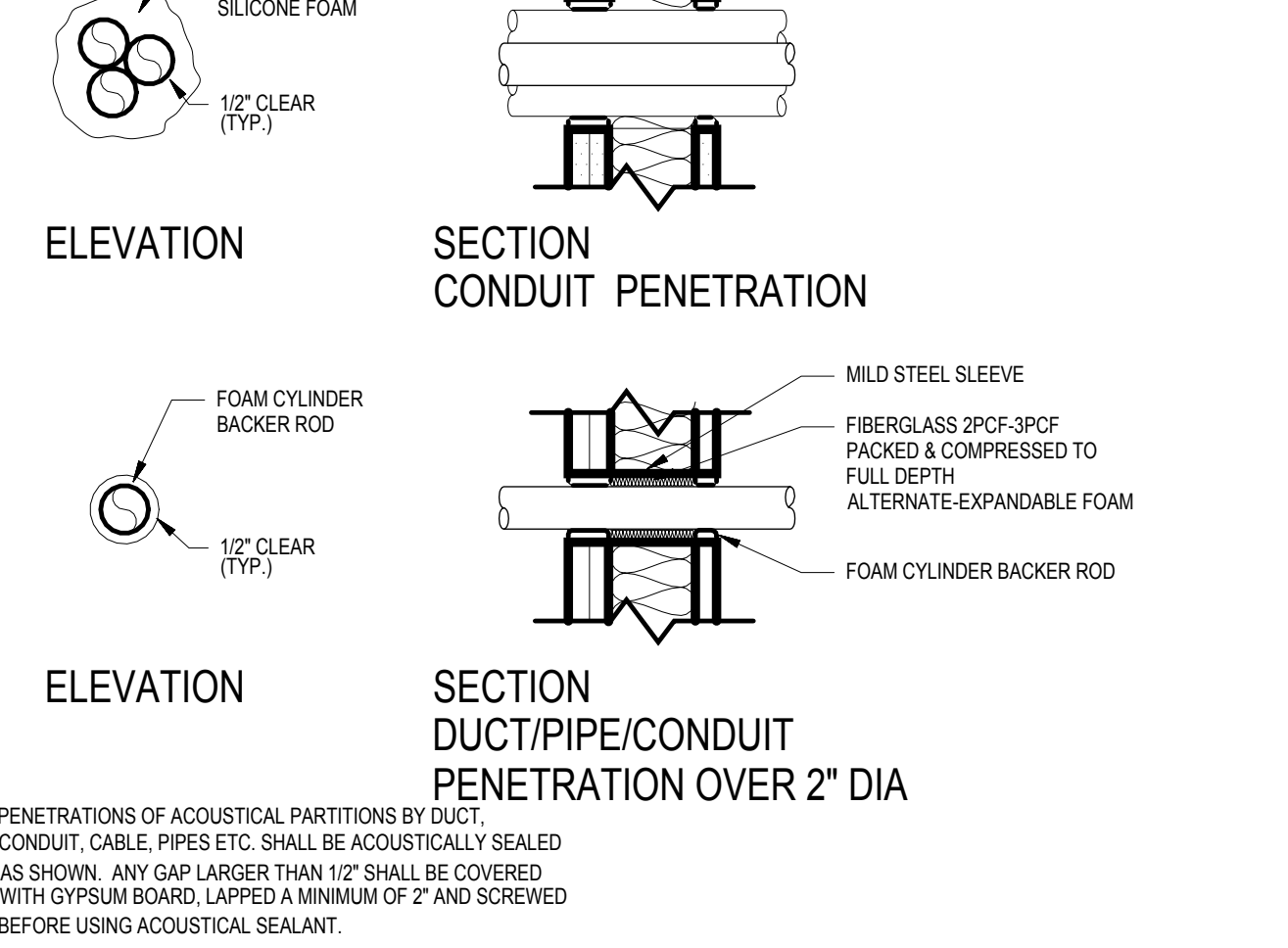
I TYPICAL CABLE RISER RATED PENETRATIONS



J ELECTRICAL CONDUIT RATED PENETRATIONS



K WALL PENETRATIONS - ACOUST

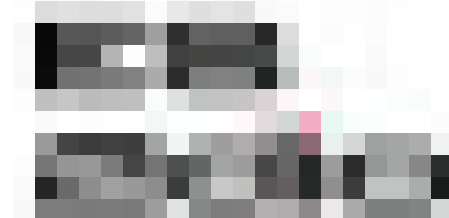


K WALL PENETRATIONS - ACOUST

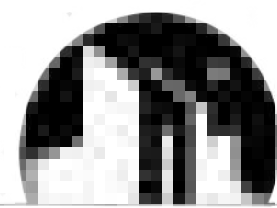
1 THROUGH PENETRATION FIRESTOPPING - MECHANICAL AND ELECTRICAL PENETRATIONS

SCALE: N.T.S.

TYPICAL AT ONE-HOUR AND TWO-HOUR METAL FRAMED GYPSUM BOARD PARTITIONS



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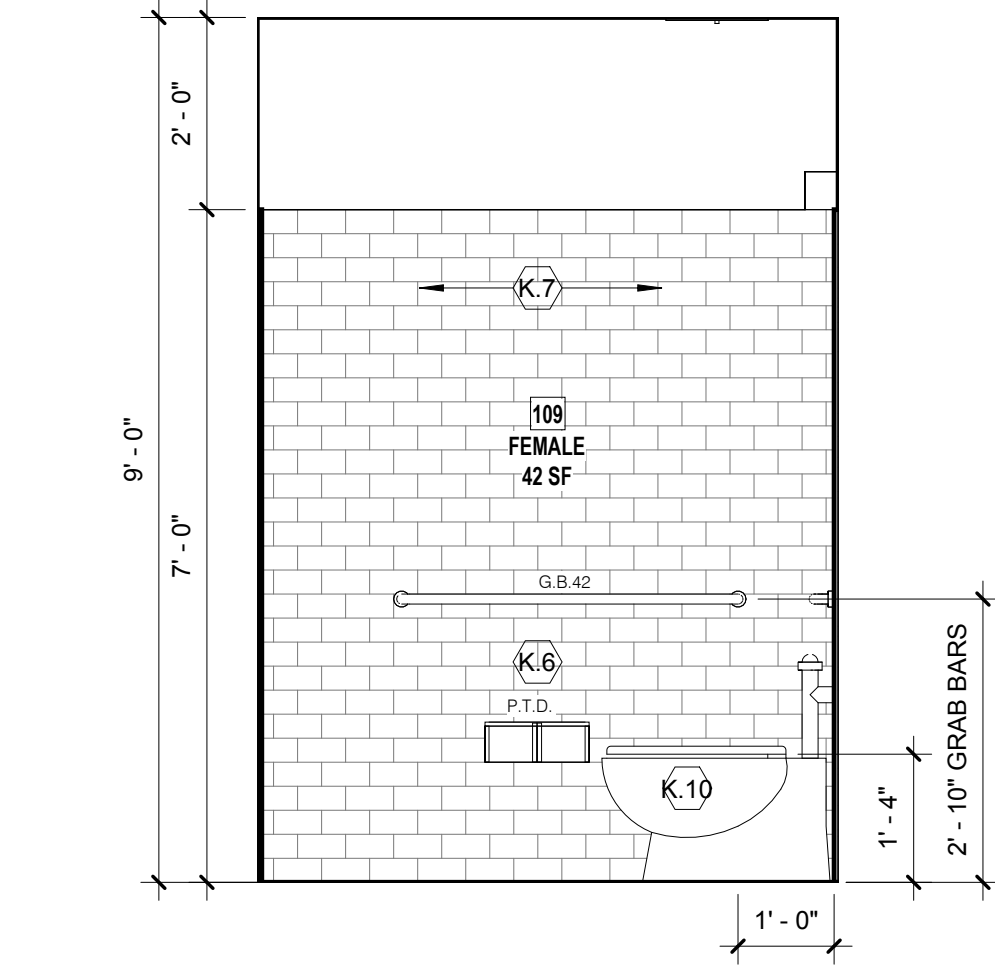
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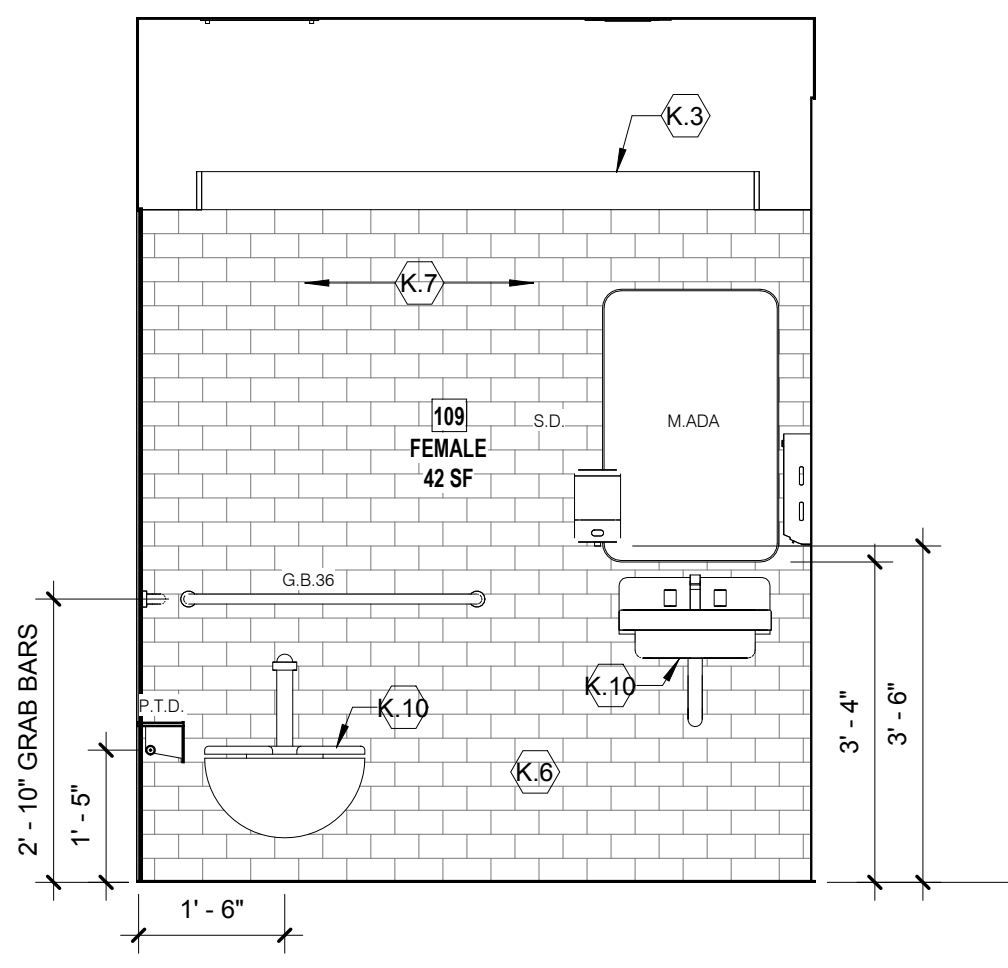
07/15/24

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Revised:	—
Project No.	2407
Drawn By:	JSM/SEE
Checked By:	EE
File Name:	
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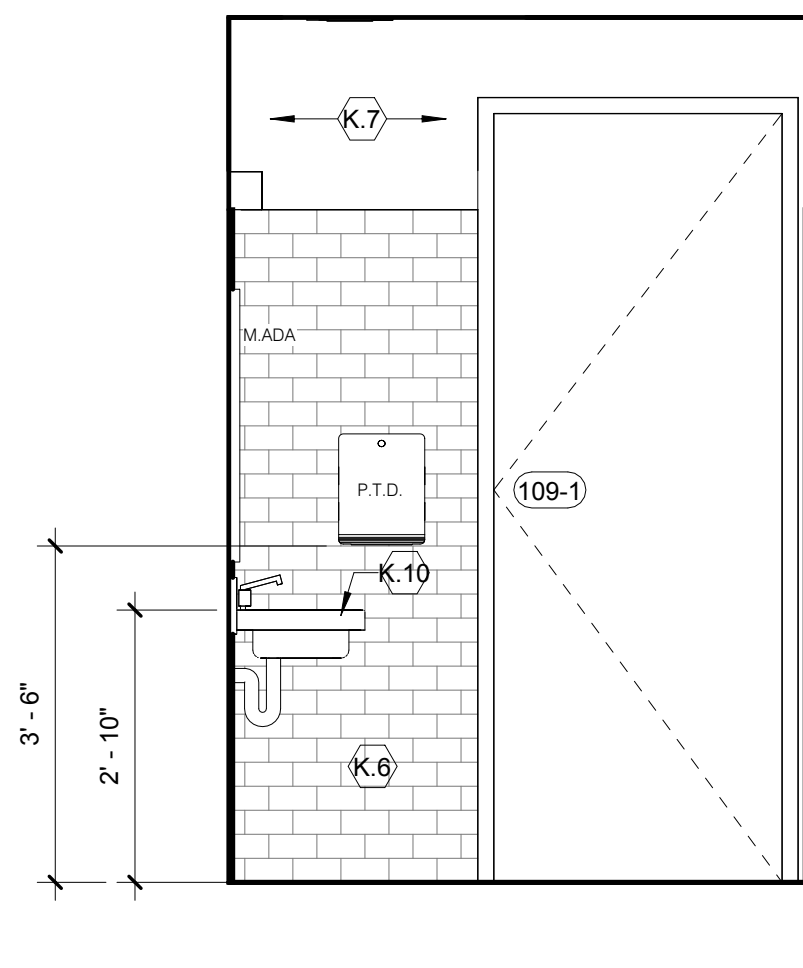
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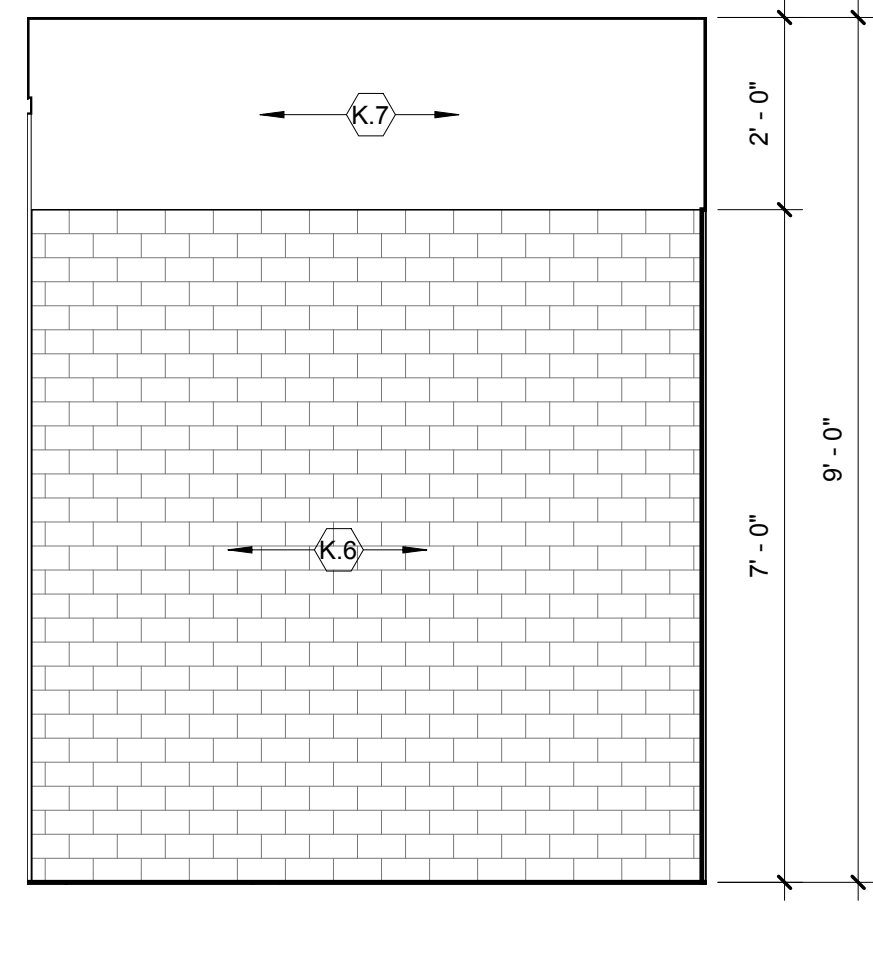
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SCALE: 1/2" = 1'-0"



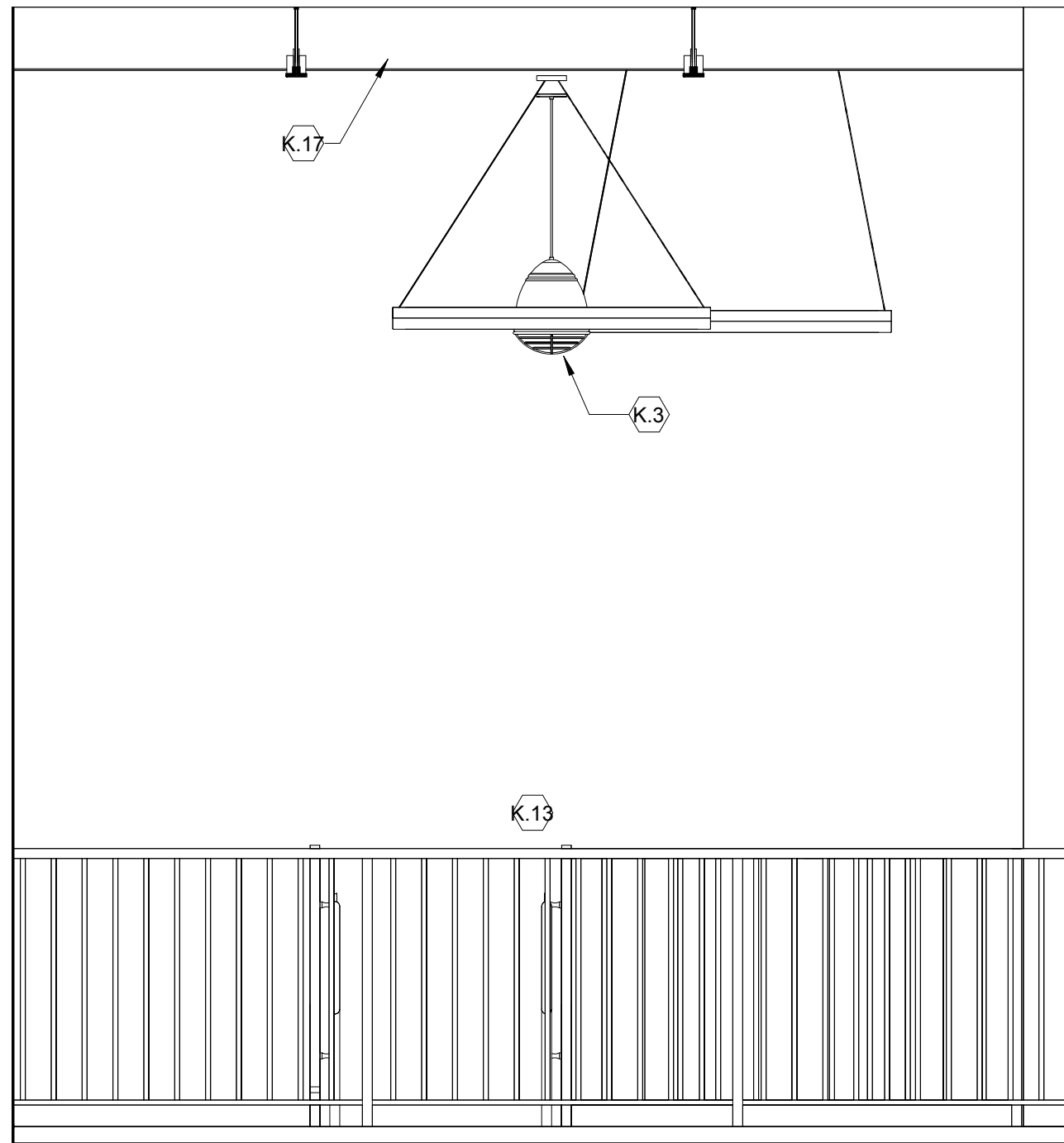
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SCALE: 1/2" = 1'-0"



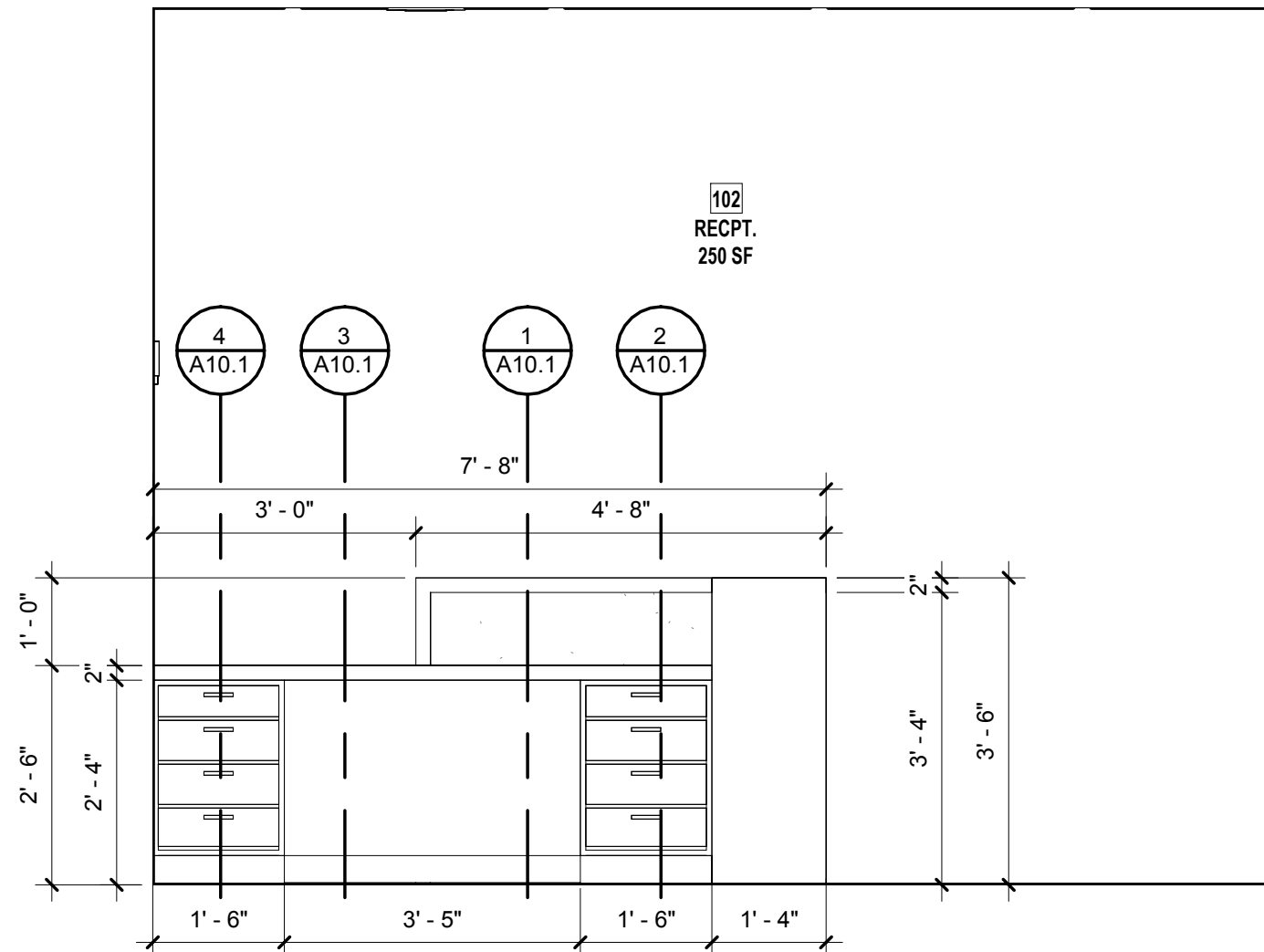
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SCALE: 1/2" = 1'-0"



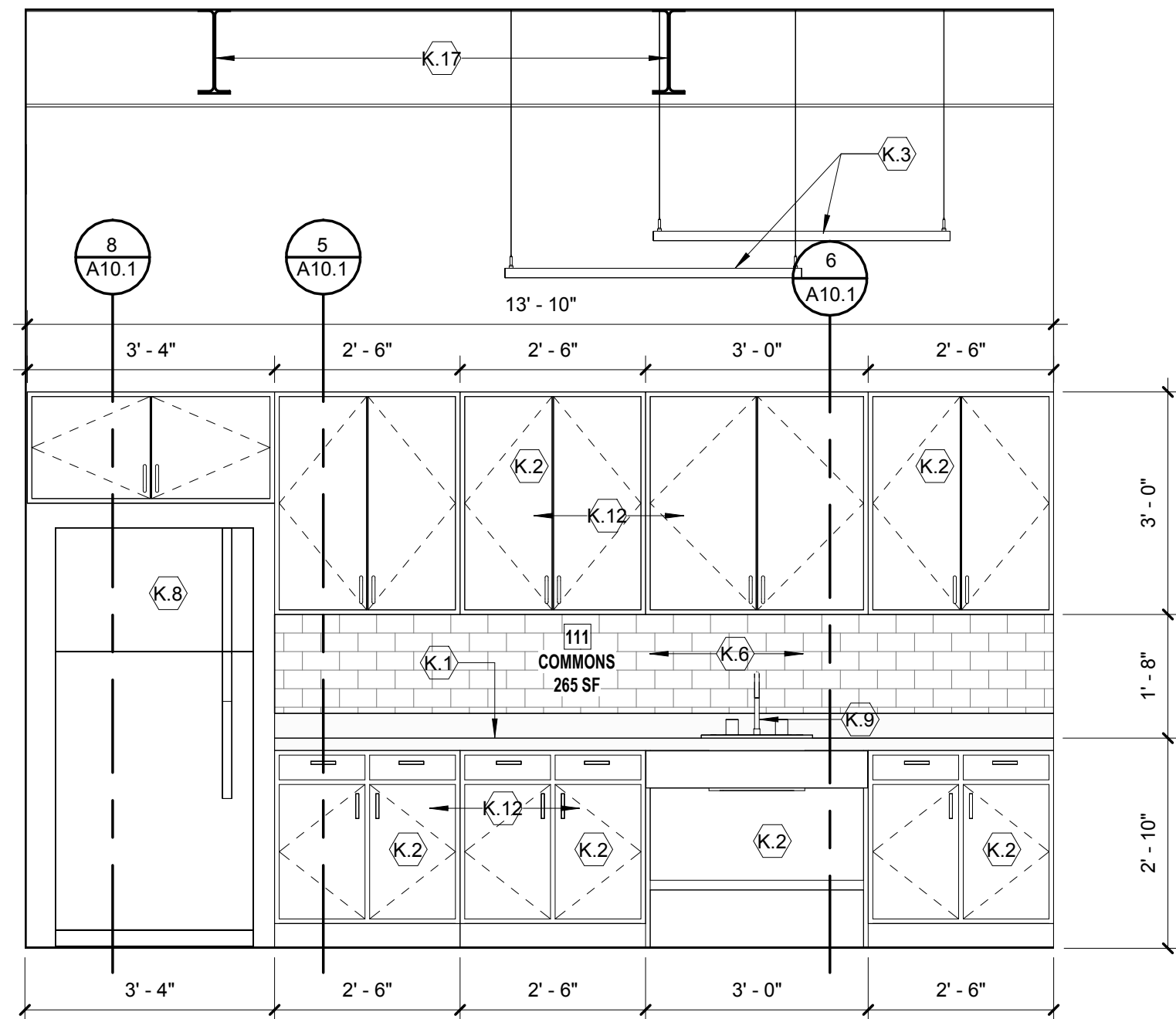
4 ELEV - TYP RR - W
SCALE: 1/2" = 1'-0"



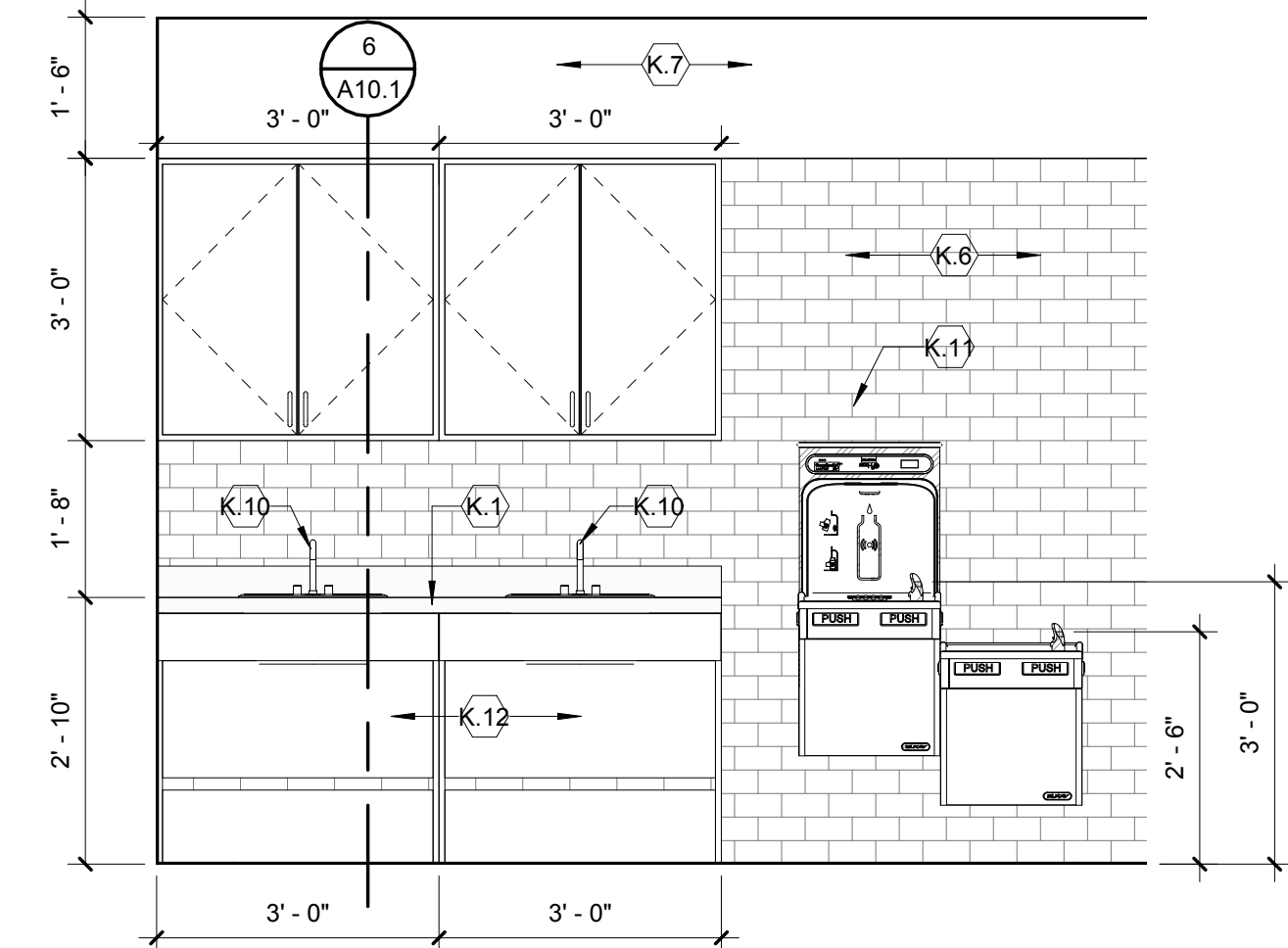
5 ELEV. - LOBBY - E
SCALE: 1/2" = 1'-0"



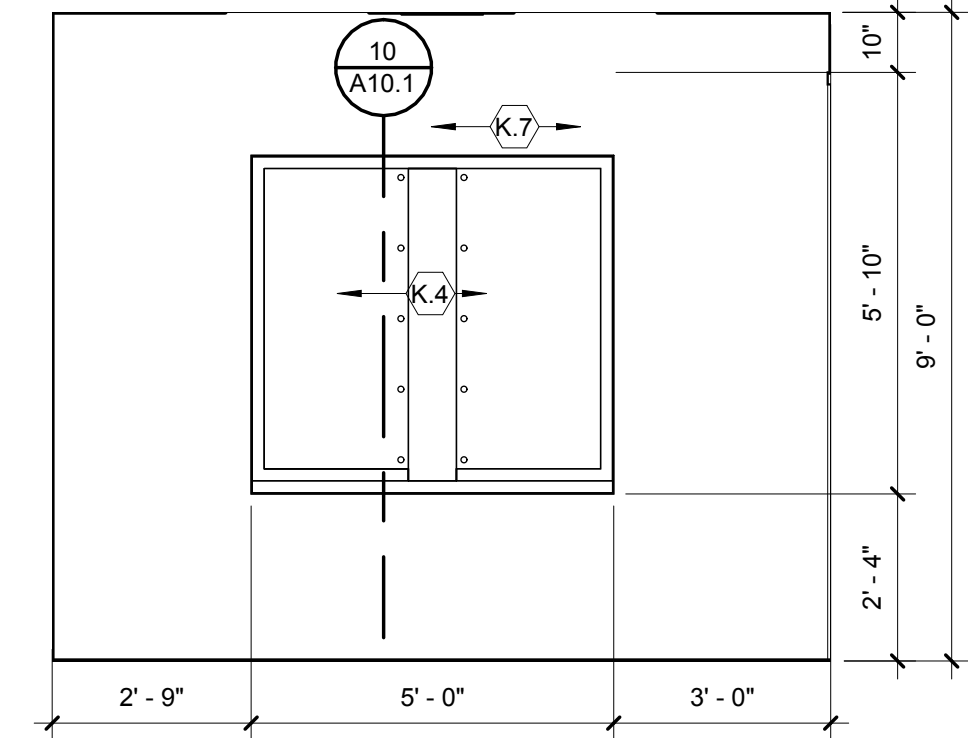
9 ELEV. - RECEPTION - W
SCALE: 1/2" = 1'-0"



6 ELEV. - BREAKROOM - E
SCALE: 1/2" = 1'-0"



7 ELEV. - HALL
SCALE: 1/2" = 1'-0"



8 ELEV. WAITING ROOM
SCALE: 3/8" = 1'-0"

FINISHES ELEVATION NOTES

- ALL PAINTS AND WALL COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR THE PARTICULAR SURFACE.
- SAMPLES OF FINISH COLORS SHALL BE FIELD APPLIED FOR APPROVAL TO ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- ALL WALLS SHALL BE PROPERLY SPACKLED, SANDED, AND PRIMED FOR PAINTING OR WALL COVERING.
- ALL METAL SURFACES SHALL BE SANDED SMOOTH PRIOR TO PAINTING.
- FLOOR MATERIAL TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COORDINATE FINISHES WITH INTERIOR ELEVATIONS.
- TILE INSTALLATION: CONTRACTOR SHALL LAYOUT FLOOR, BASE, AND REVIEW WITH ARCHITECT PRIOR TO INSTALLATION.
- FINISH EXPOSED EDGES OF PORCELAIN TILE W/SEALER.
- PROVIDE FLOOR TRANSITION STRIPS AT: CARPET TO VCT, CARPET TO CERAMIC TILE & CONCRETE TO CERAMIC TILE OR CARPET.

ACCESSORY LEGEND

- | | |
|----------|-------------------------------|
| F.E. | FIRE EXTINGUISHER AND BRACKET |
| F.E.C. | FIRE EXTINGUISHER AND CABINET |
| E.W.C. | ELECTRIC WATER COOLER |
| S.D. | SOAP DISPENSER |
| E.H.D. | ELECTRIC HAND DRYER |
| T.T.D. | TOILET TISSUE DISPENSER |
| P.T.D. | PAPER TOWEL DISPENSER |
| S.N.D. | SANITARY NAPKIN DISPOSAL |
| F.D. | FLOOR DRAIN |
| M.A.D.A. | ADA MIRROR |
| G.B.36 | GRAB BAR 36" |
| G.B.48 | GRAB BAR 42" |
| T.P. | TOILET PARTITION |

SYMBOLS

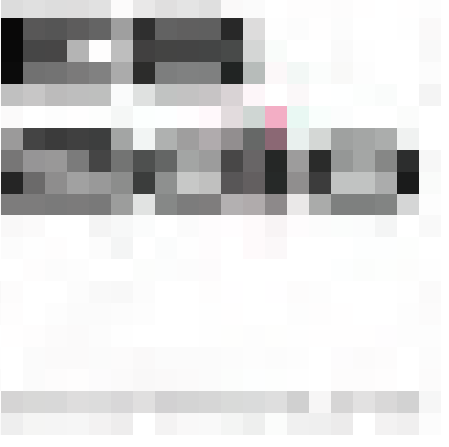
- | | | | | | |
|---|-----------|-----|-------------|---|-------------|
| 1 | WALL TYPE | 100 | DOOR NUMBER | X | WINDOW TYPE |
|---|-----------|-----|-------------|---|-------------|

KN - INTERIOR ELEVATION

- | | |
|------|--|
| K.1 | SOLID SURFACE COUNTER TOP |
| K.2 | PLASTIC LAMINATE |
| K.3 | LIGHT FIXTURE, REFER ELECTRICAL DRAWINGS |
| K.4 | BAFFLE WINDOW |
| K.5 | STOREFRONT, REFER TO WINDOW TYPES |
| K.6 | CERAMIC TILE SELECTED BY OWNER |
| K.7 | PAINTED GYPSUM BOARD |
| K.8 | REFRIGERATOR BY OWNER, CONTRACTOR INSTALL, COORDINATE WITH OWNER AND MANUFACTURER REQUIREMENTS |
| K.9 | SNK, REFER TO PLUMBING DRAWINGS |
| K.10 | PLUMBING FIXTURES, SEE PLUMBING DRAWINGS |
| K.11 | ELECTRICAL WATER COOLER, REFER TO PLUMBING DRAWINGS AND ADA MOUNTING HEIGHT |
| K.12 | MILLWORK BY OWNER |
| K.13 | STEEL RAILING SYSTEM |
| K.14 | FUR-DOWN |
| K.15 | STAIRS, REFER STRUCTURAL DRAWINGS |
| K.16 | MECH EQUIPMENT, REFER MECH. DRAWINGS |
| K.17 | STRUCTURAL ELEMENT, SEE STRUCTURAL DRAWINGS |

MILLWORK NOTES:

- ALL DIMENSIONS ARE TO FINISHED FACE, UNLESS NOTED OTHERWISE
- PROVIDE BLOCKING AS REQUIRED INSIDE OF CASEWORK
- ALL OPEN SHELVING UNITS TO RECEIVE WHITE MELAMINE FINISH ON ALL EXPOSED SURFACES
- COORDINATE CASEWORK WITH SOFFIT LOCATIONS. SOFFITS NOT SHOWN IN SECTION
- ALL DOORS, DRAWERS, AND FIXED SHELVING UNITS TO RECEIVE PVC EDGEBANDING. COLOR TO BE SELECTED BY ARCHITECT. REFER TO SPECS FOR MORE INFORMATION
- REFER TO INTERIOR ELEVATIONS AND FINISH LEGEND FOR FINISH INFORMATION
- VERIFY OVERALL HEIGHT IN FIELD WHERE CASEWORK IS LOCATED UNDER SOFFIT
- SEE SHEET G1.3 FOR MORE ADA INFORMATION.



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Description

Date

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Progress Drawing Set
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07/15/24

Date: 07/15/24

Revised: --

Project No. 2407

Drawn By: JSM/SEE

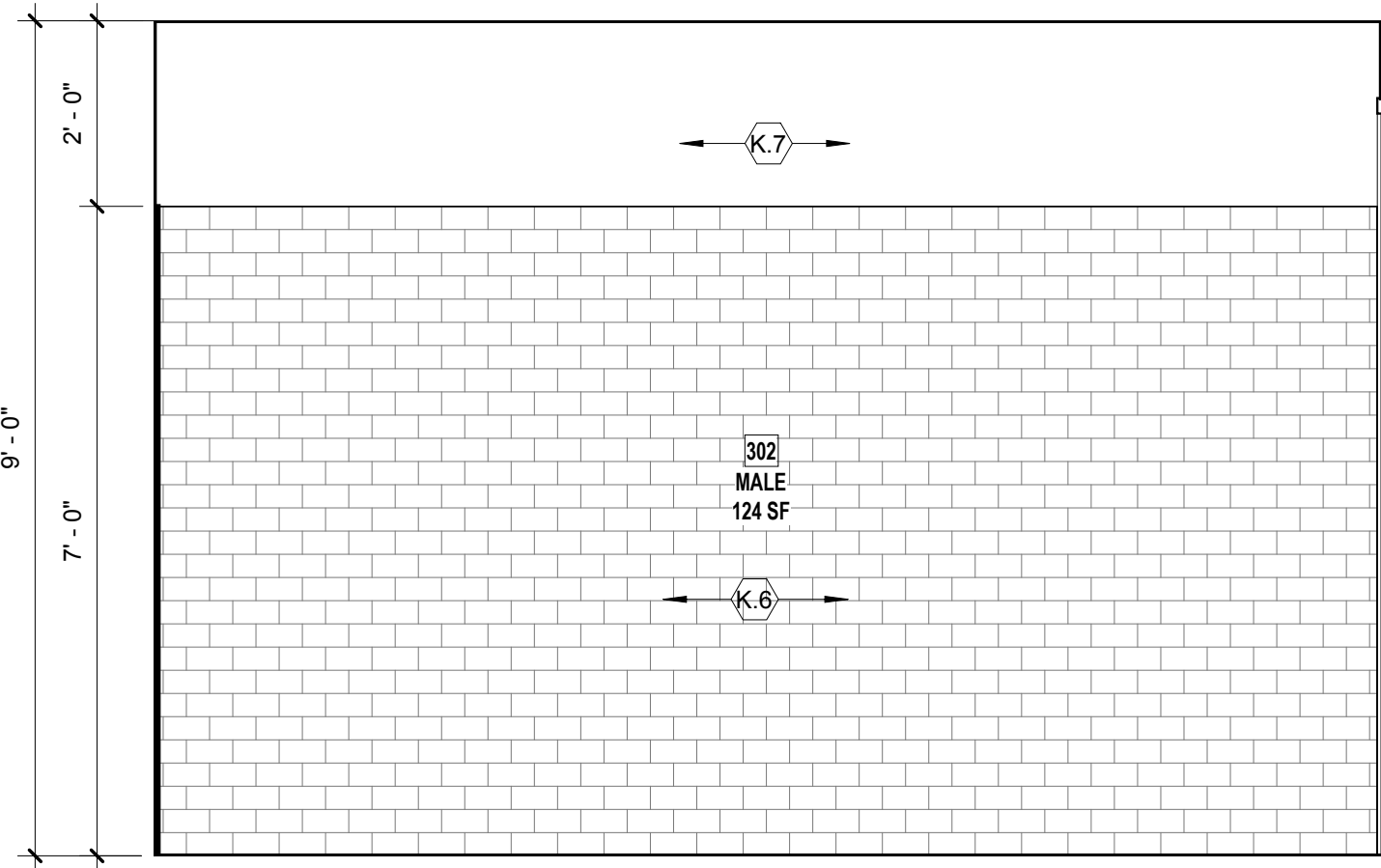
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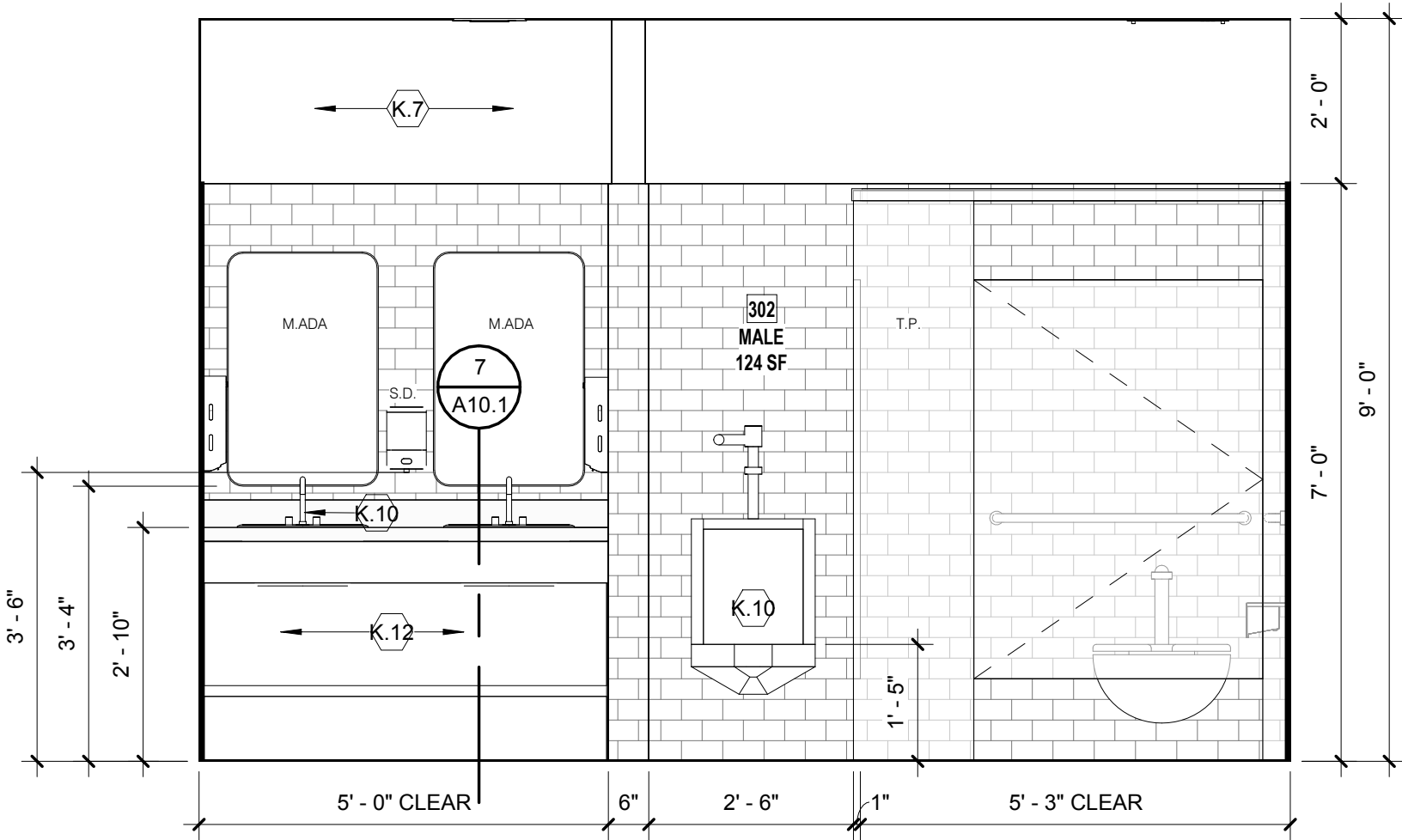
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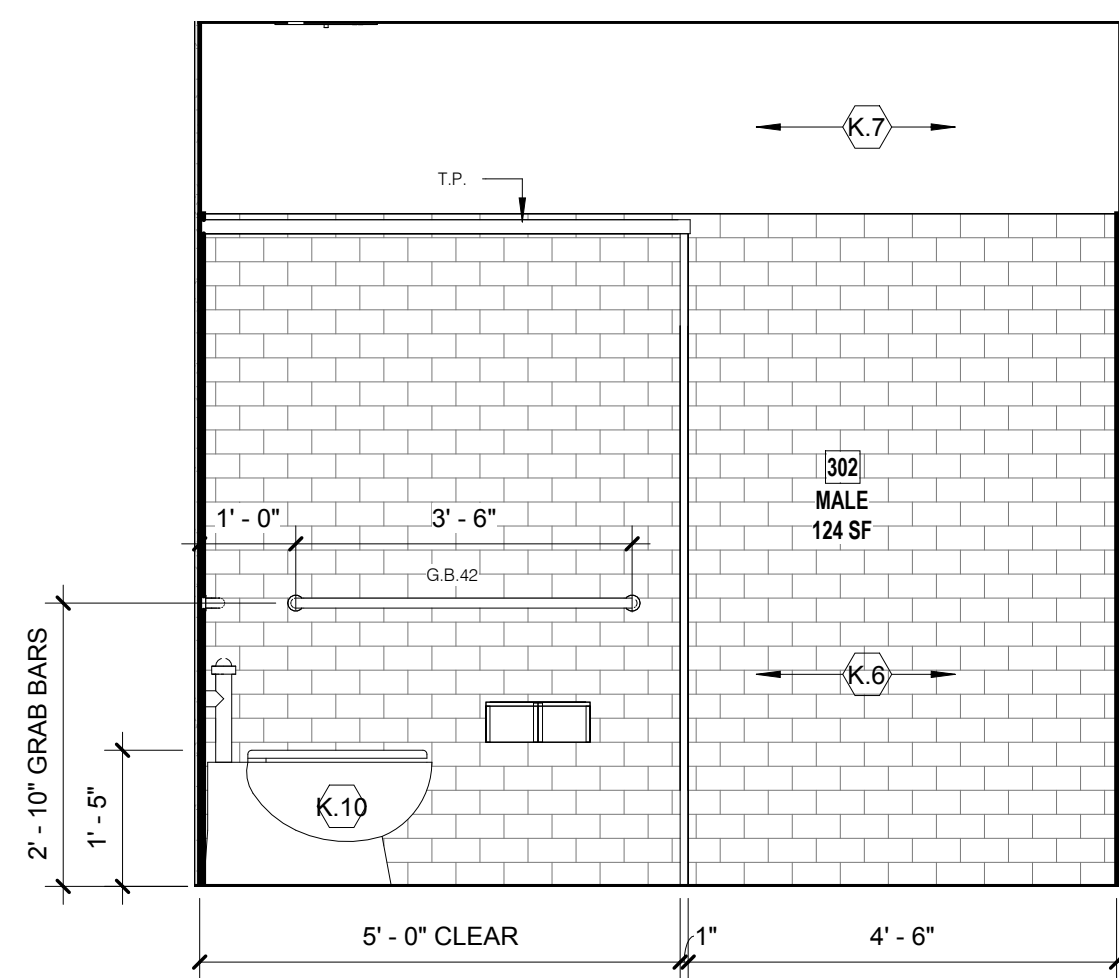
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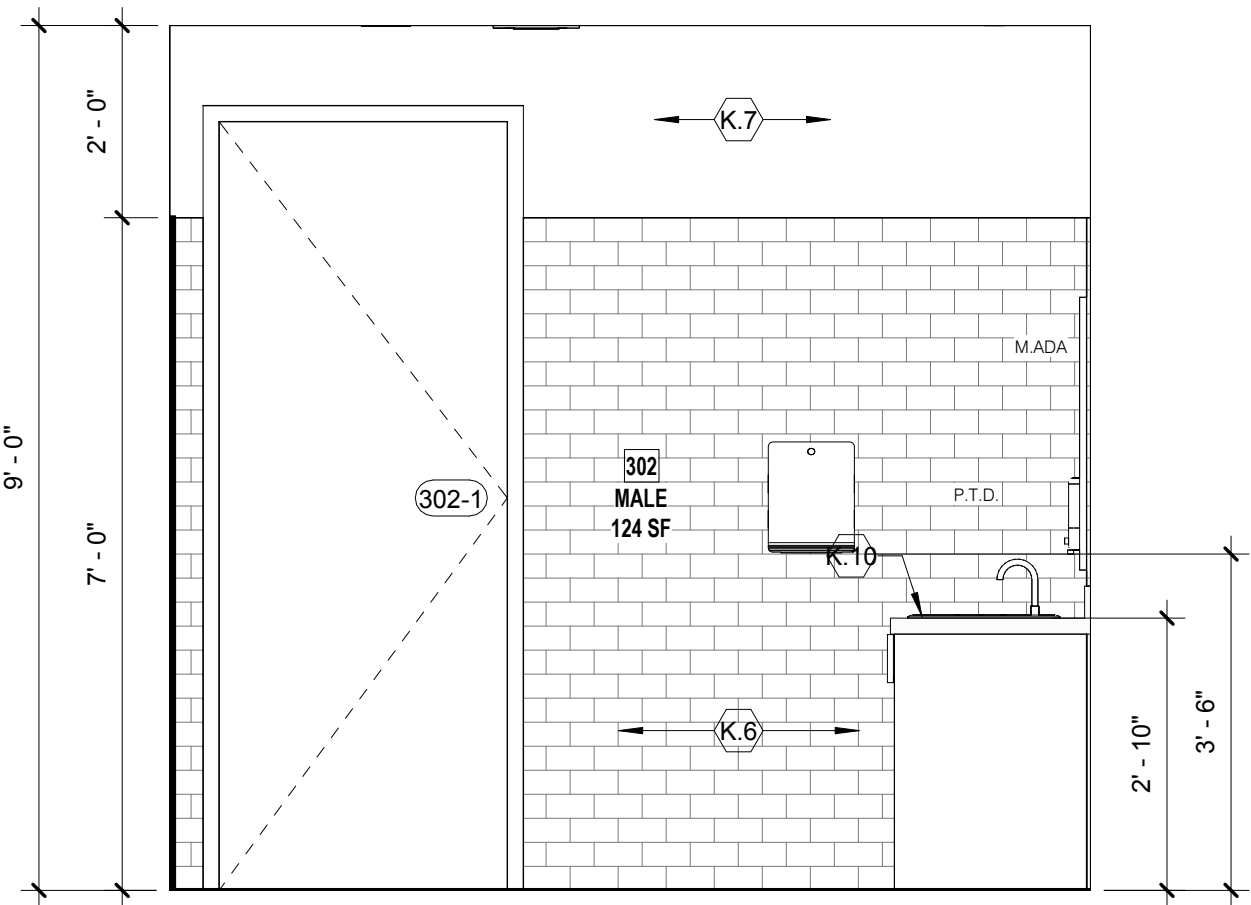
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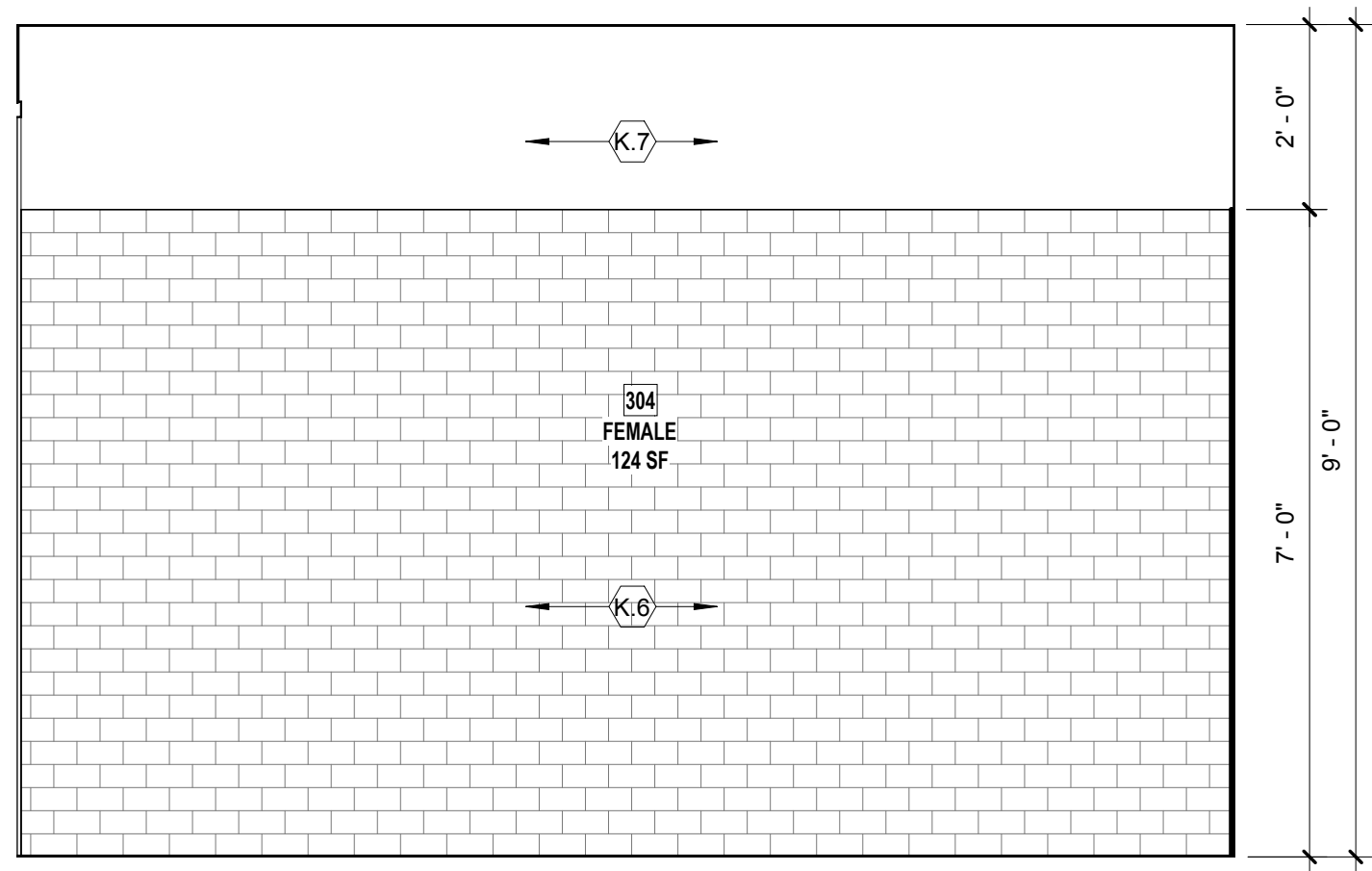
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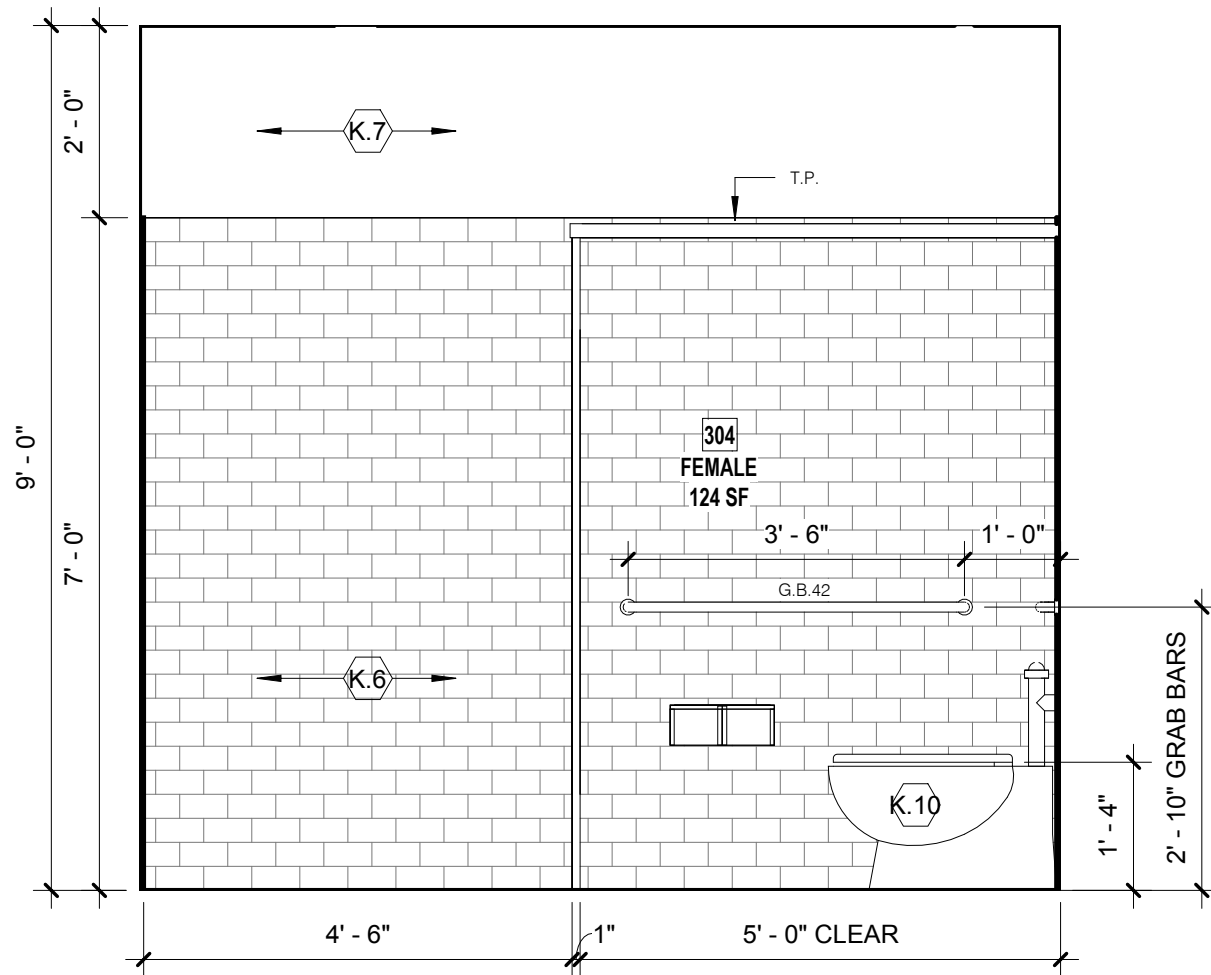
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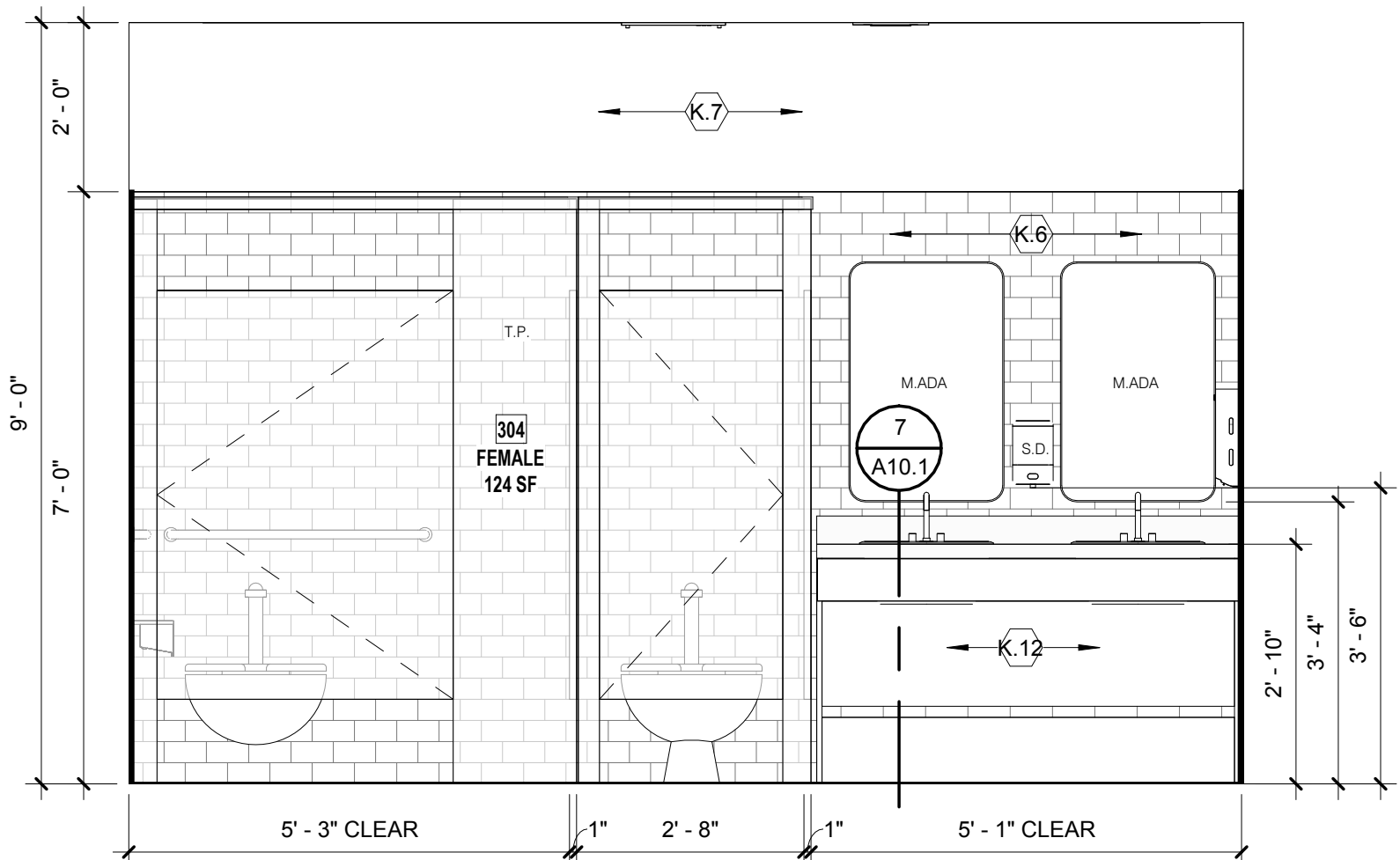
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SCALE: 1/2" = 1'-0"



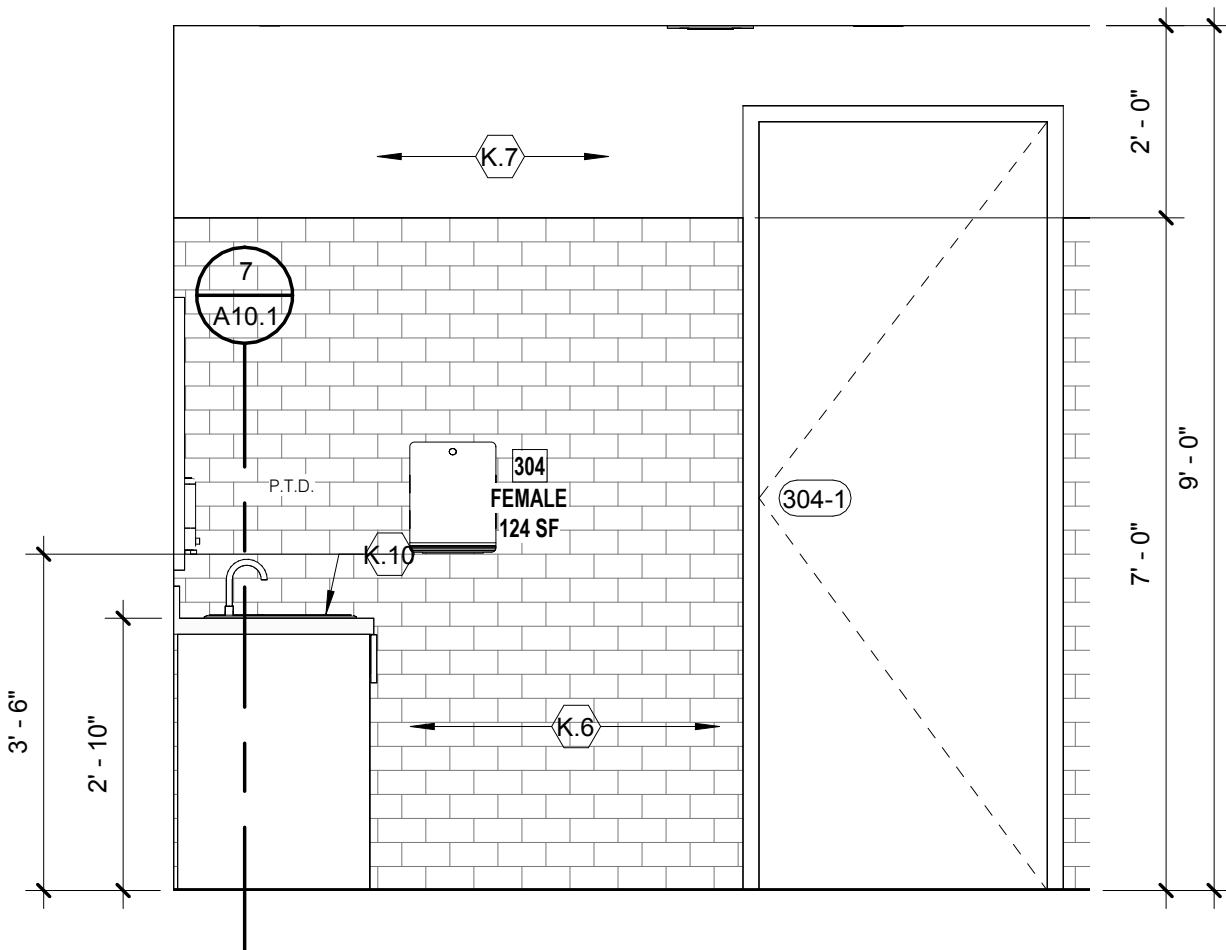
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SCALE: 1/2" = 1'-0"



6 ELEV - 304 MALE - E
SCALE: 1/2" = 1'-0"



7 ELEV - 304 MALE - S
SCALE: 1/2" = 1'-0"



8 ELEV - 304 MALE - W
SCALE: 1/2" = 1'-0"

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| E.H.D. | ELECTRIC HAND DRYER |
| T.T.D. | TOILET TISSUE DISPENSER |
| P.T.D. | PAPER TOWEL DISPENSER |
| S.N.D. | SANITARY NAPKIN DISPOSAL |
| F.D. | FLOOR DRAIN |
| M.A.D.A. | ADA MIRROR |
| G.B.36 | GRAB BAR 36" |
| G.B.48 | GRAB BAR 48" |
| T.P. | TOILET PARTITION |

SYMBOLS

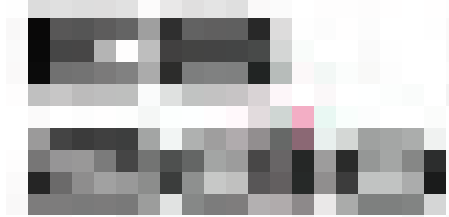
- | | | | | | |
|---|-----------|-----|-------------|---|-------------|
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| K.4 | BAFFLE WINDOW |
| K.5 | STOREFRONT, REFER TO WINDOW TYPES |
| K.6 | CERAMIC TILE SELECTED BY OWNER |
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| K.8 | REFRIGERATOR BY OWNER, CONTRACTOR INSTALL, COORDINATE WITH OWNER AND MANUFACTURER REQUIREMENTS |
| K.9 | SNK, REFER TO PLUMBING DRAWINGS |
| K.10 | PLUMBING FIXTURES, SEE PLUMBING DRAWINGS |
| K.11 | ELECTRICAL WATER COOLER, REFER TO PLUMBING DRAWINGS AND ADA MOUNTING HEIGHT |
| K.12 | MILLWORK BY OWNER |
| K.13 | STEEL RAILING SYSTEM |
| K.14 | FUR-DOWN |
| K.15 | STAIRS, REFER STRUCTURAL DRAWINGS |
| K.16 | MECH EQUIPMENT, REFER MECH. DRAWINGS |
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07/15/24

Date: 07/15/24

Revised: -

Project No. 2407

Drawn By: JSM/SEE

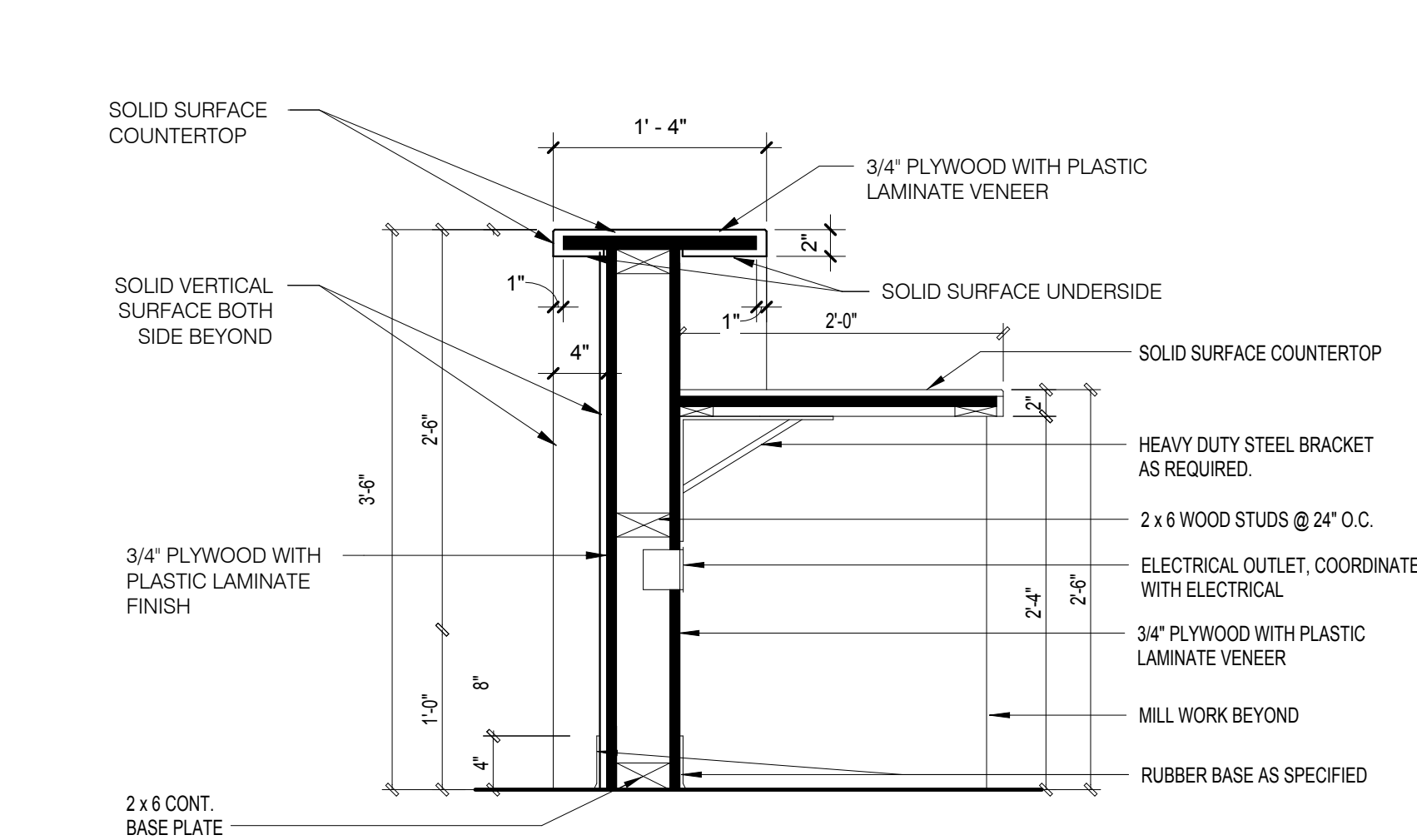
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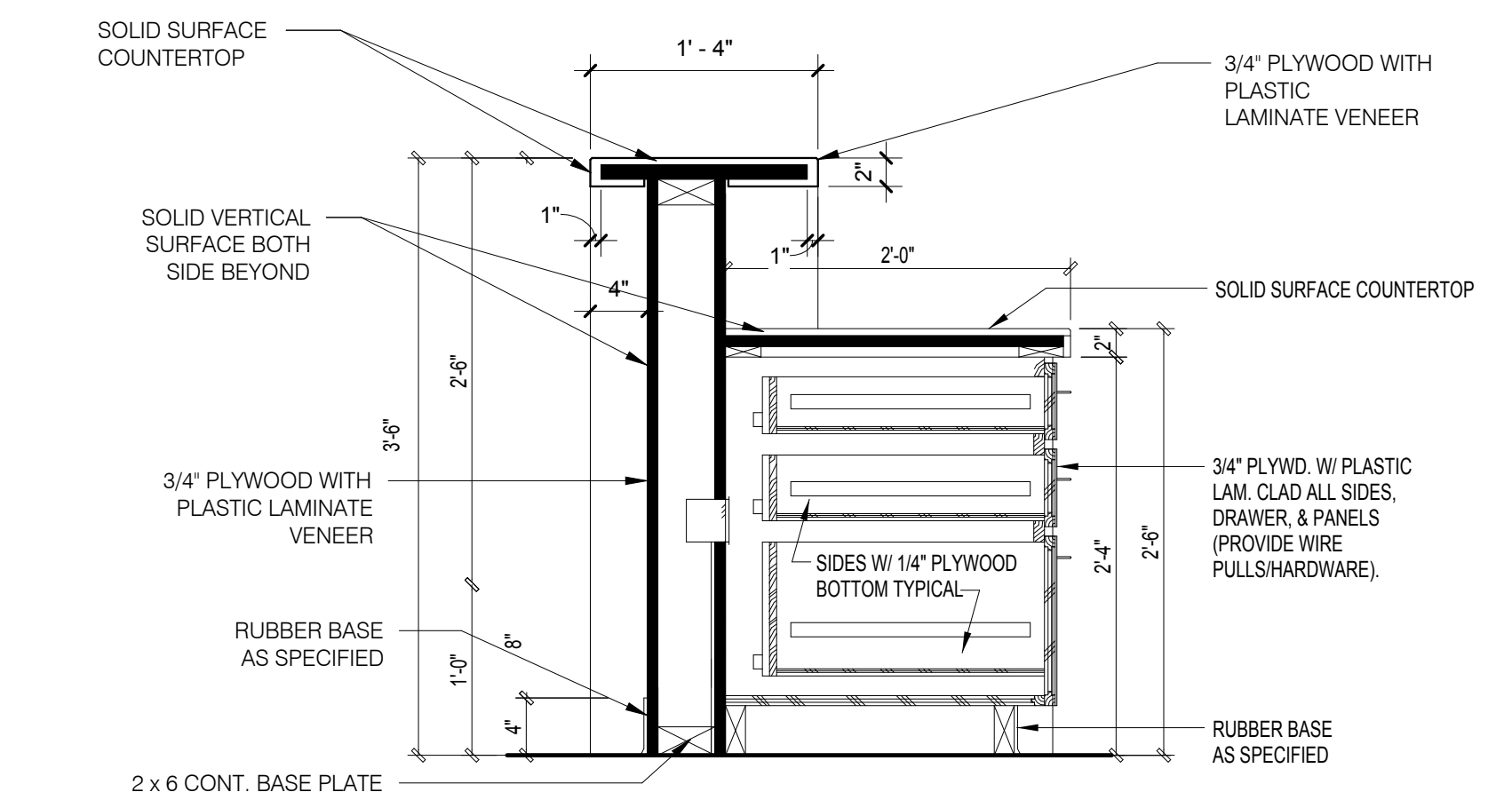
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INTERIOR ELEVATIONS

Sheet No.

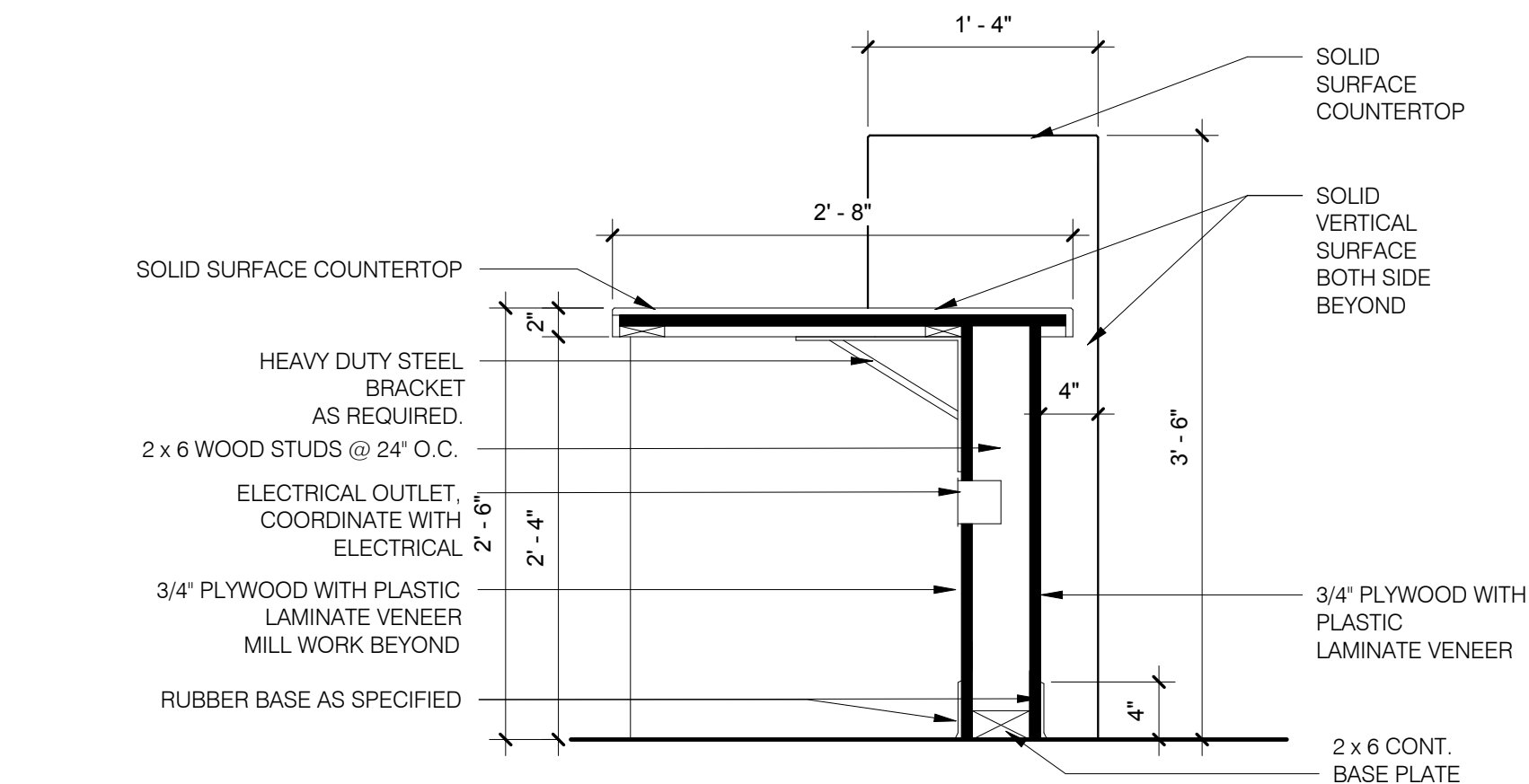
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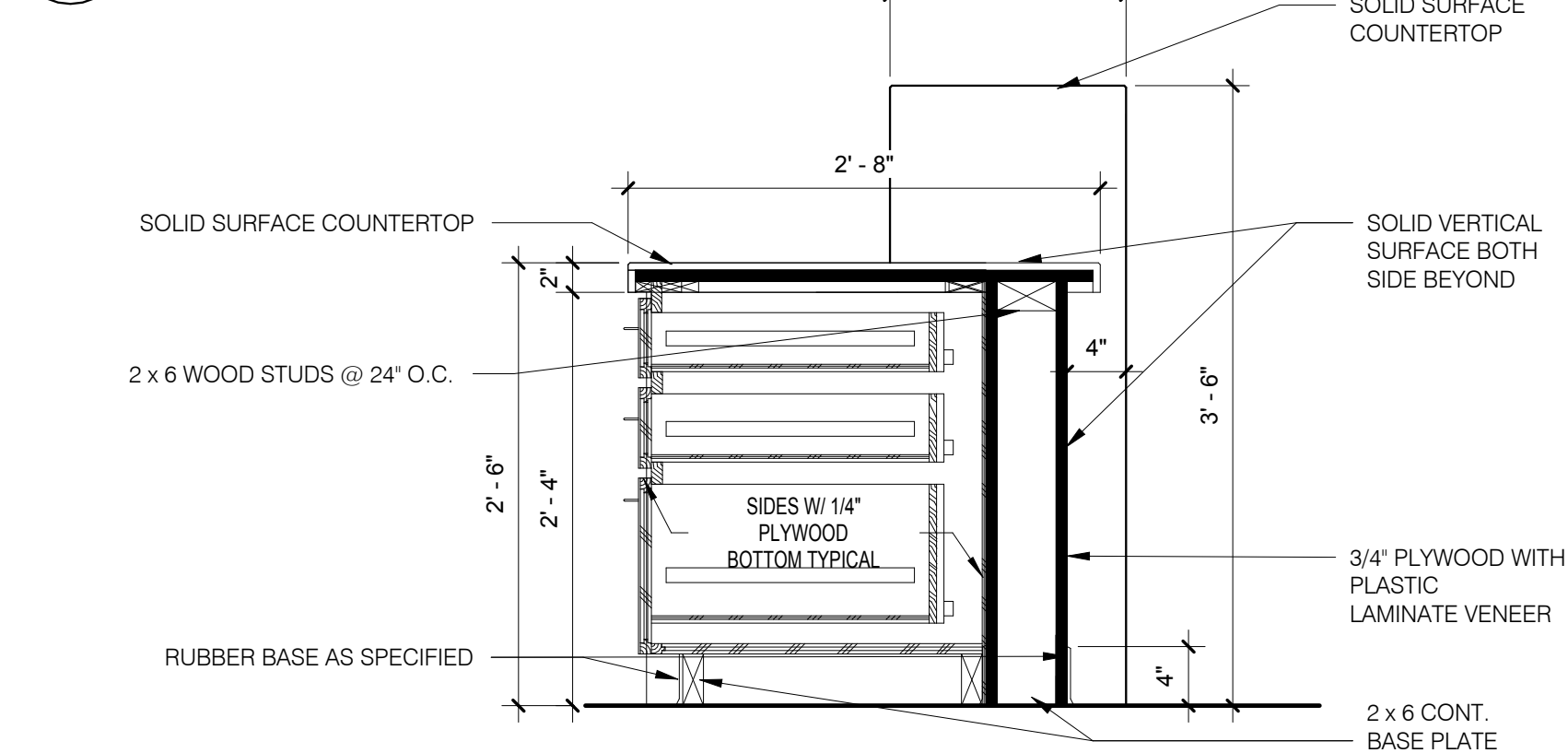
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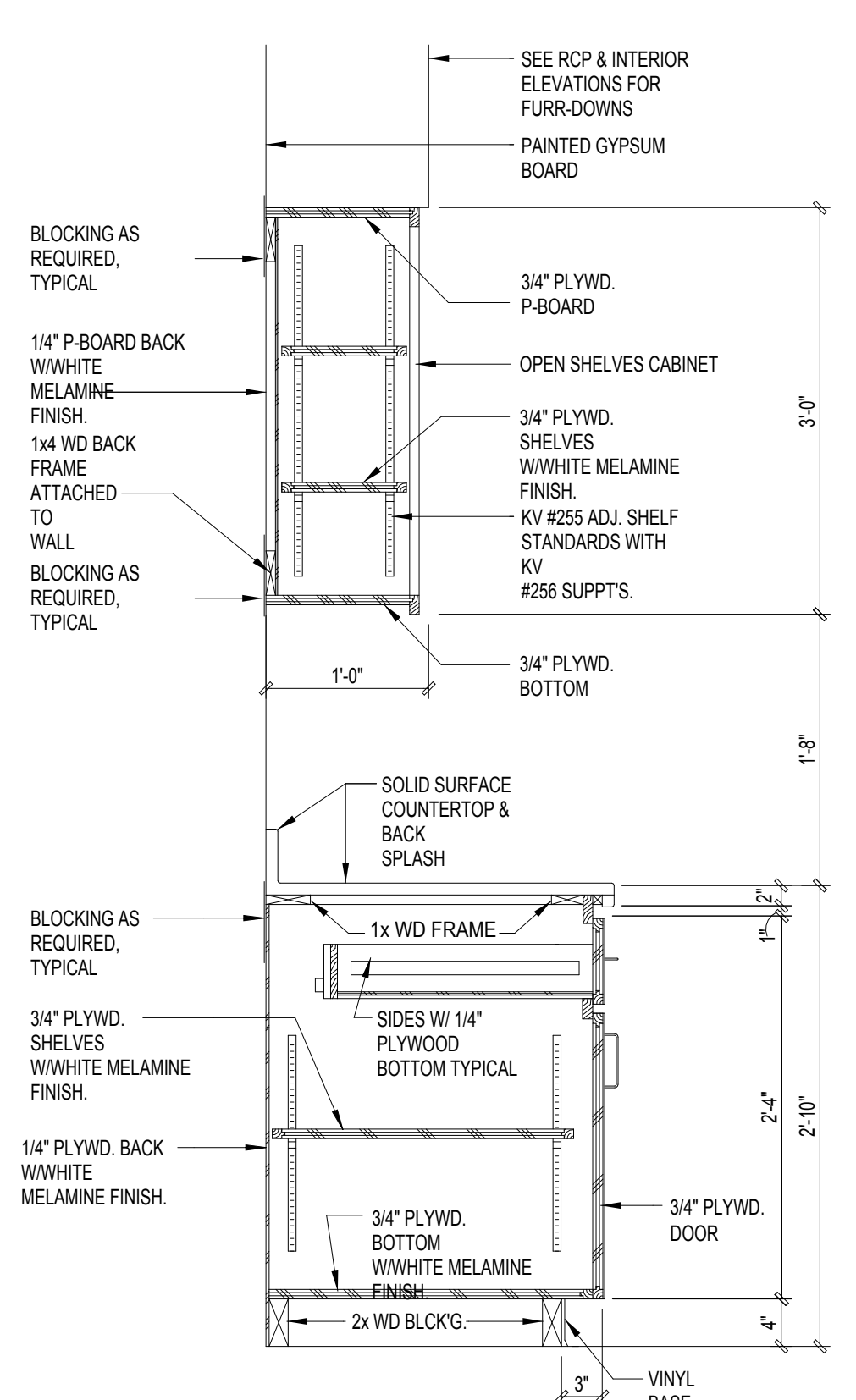
2 RECEPTION DESK SECTION B
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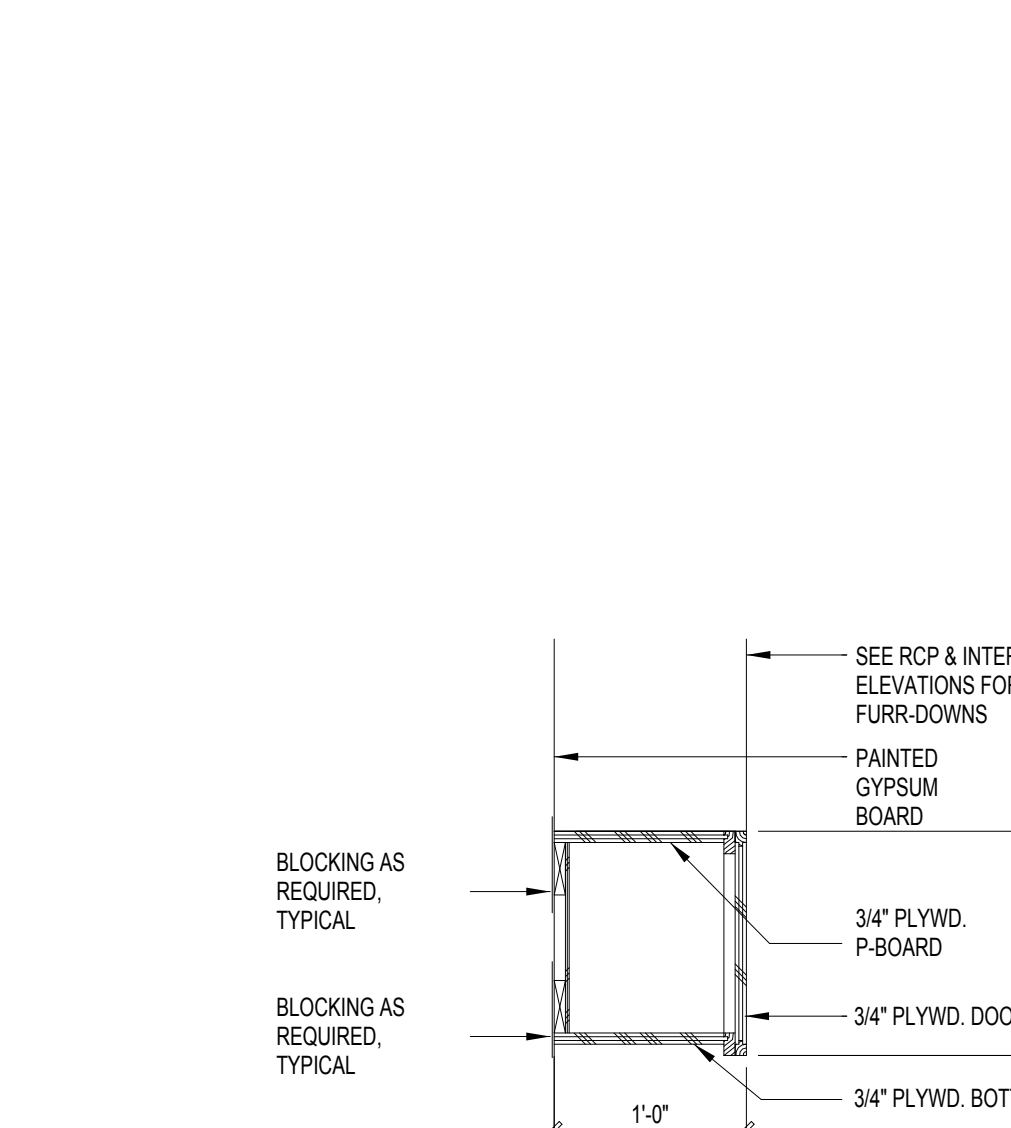
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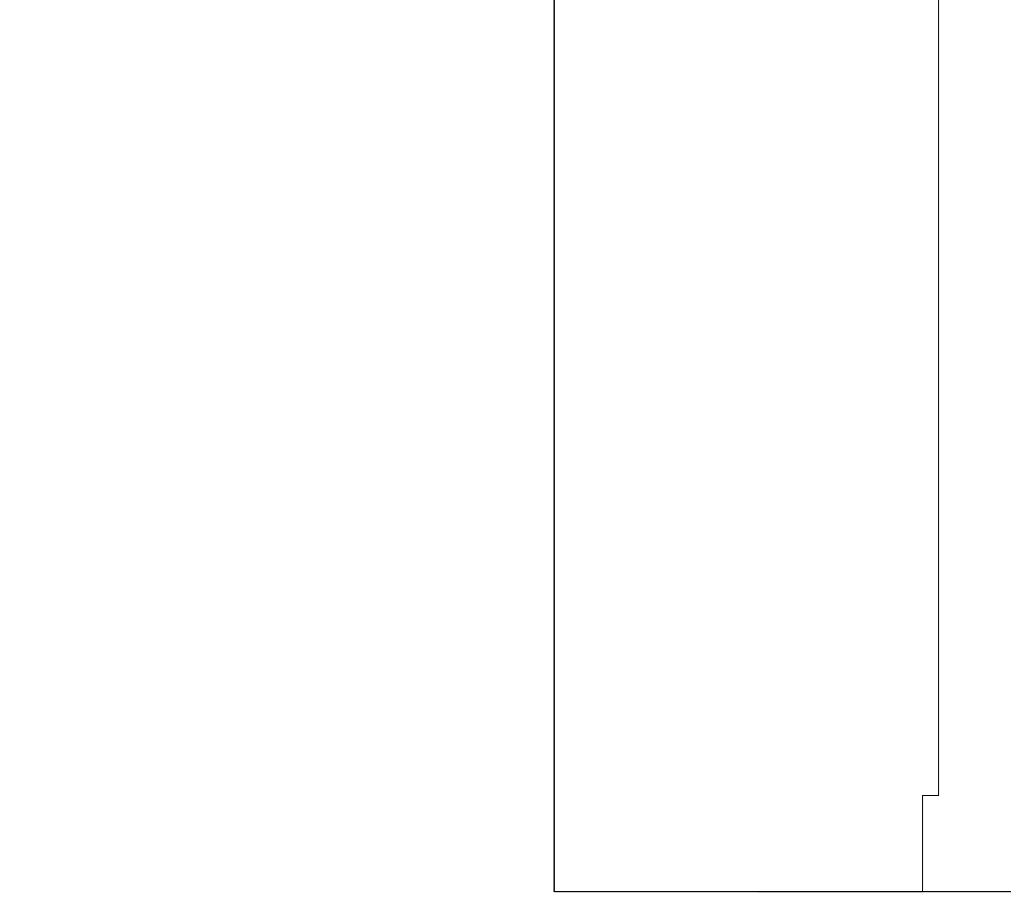
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5 MILLWORK SECTION E
SCALE: 1" = 1'-0"



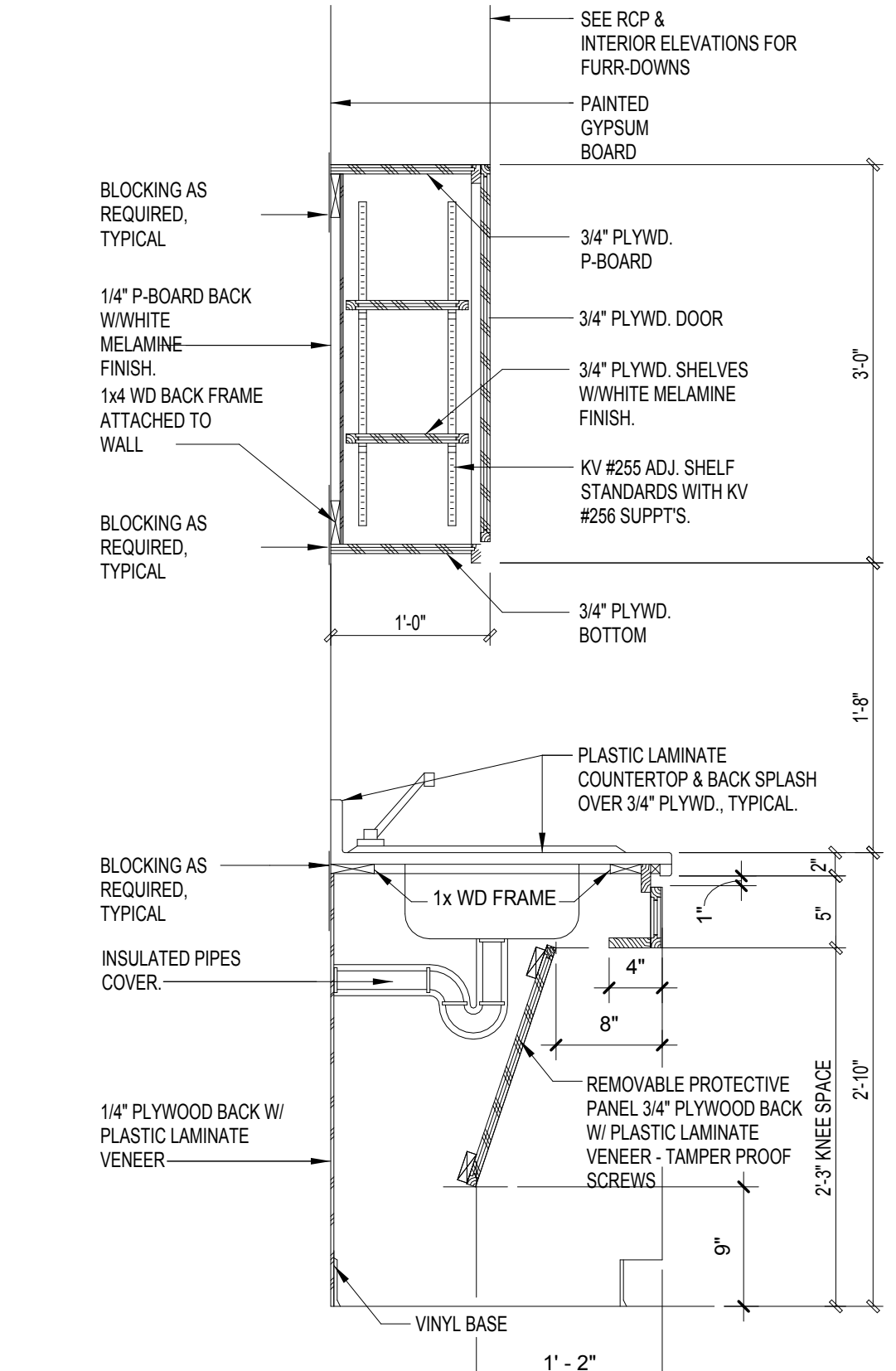
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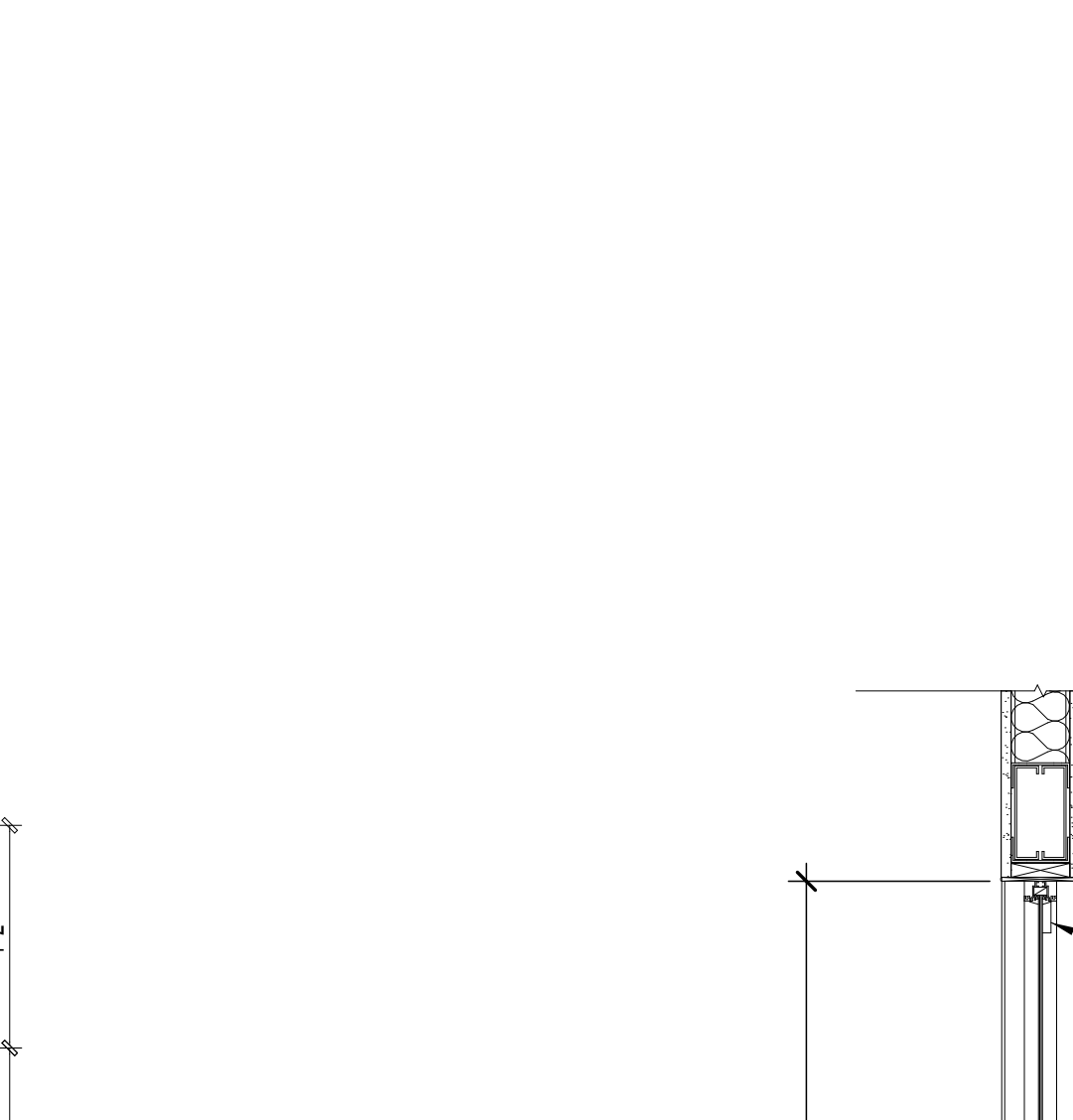
7 MILLWORK SECTION G
SCALE: 1" = 1'-0"

8 MILLWORK SECTION H
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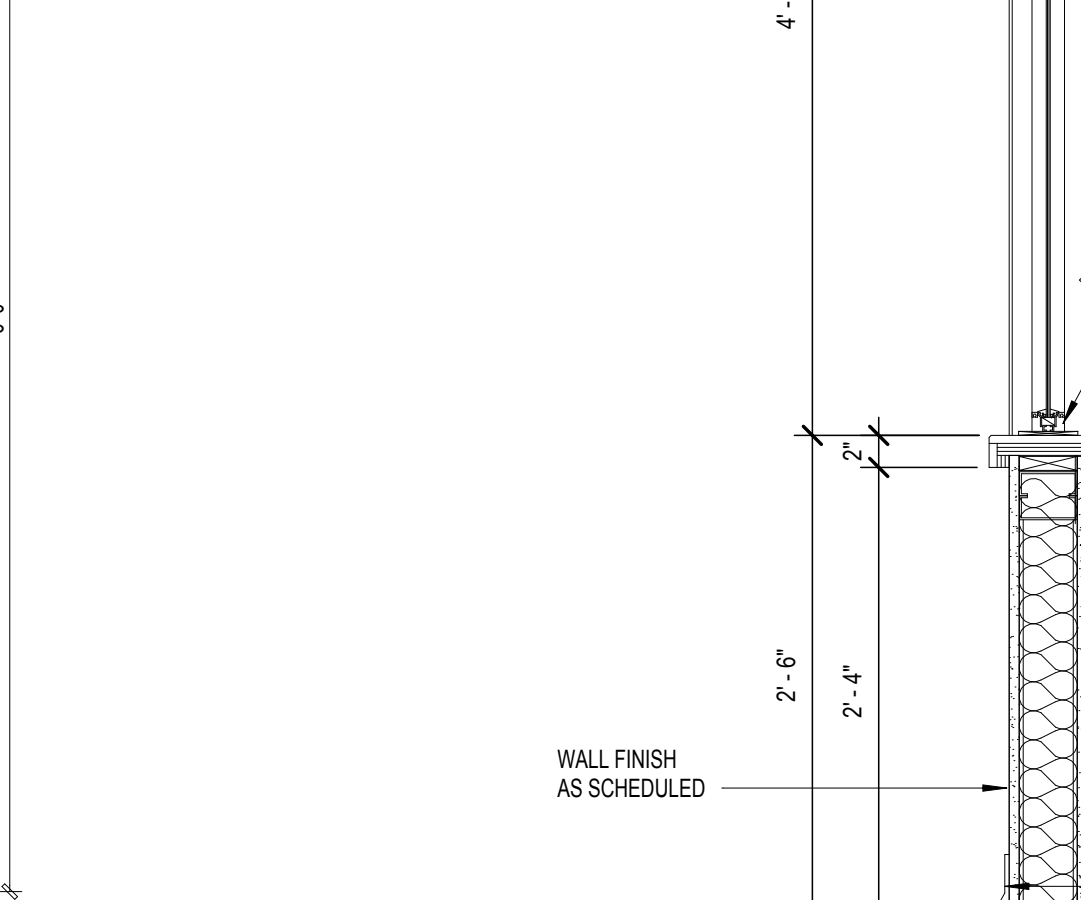
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6 MILLWORK SECTION H
SCALE: 1" = 1'-0"



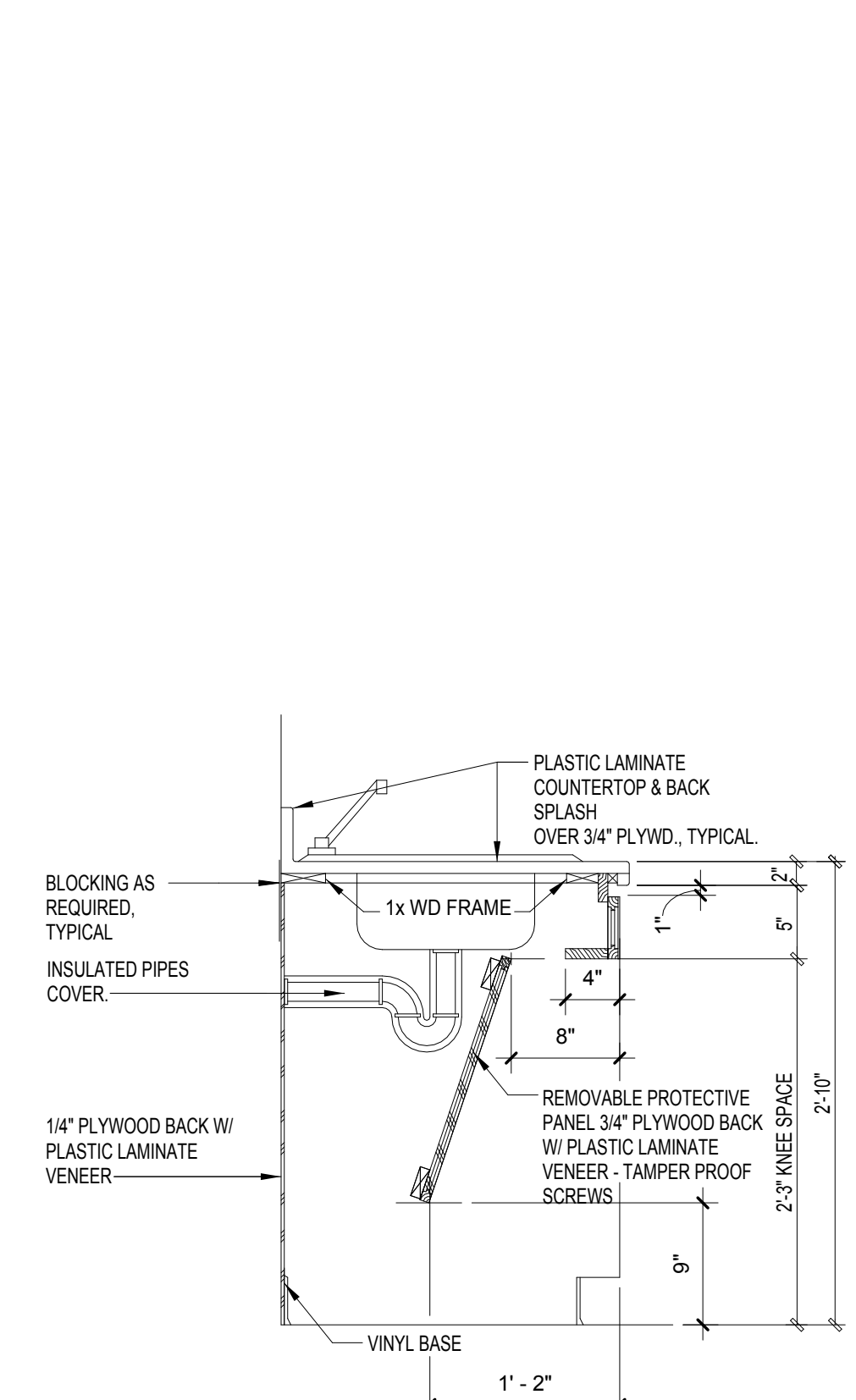
7 MILLWORK SECTION I
SCALE: 1" = 1'-0"



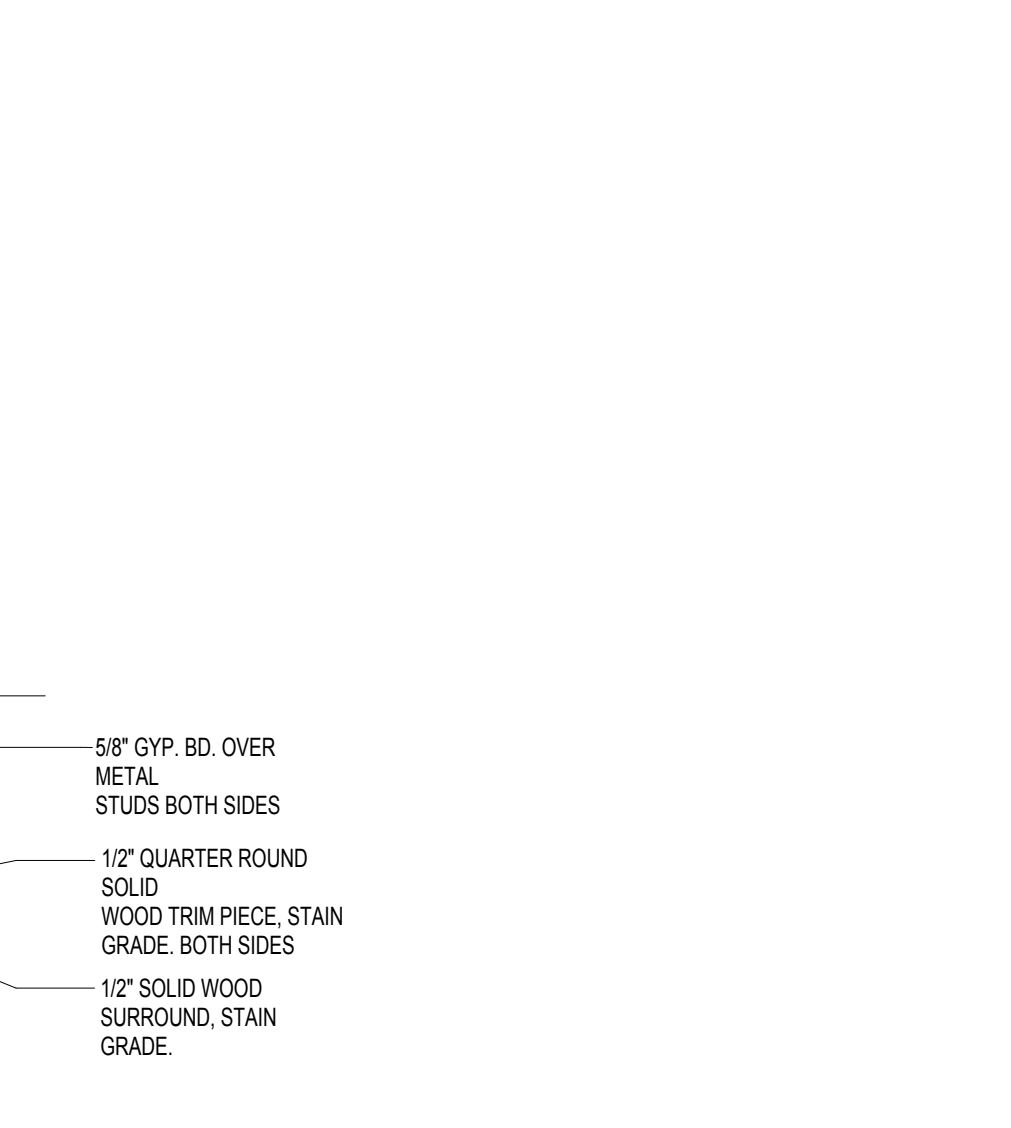
8 MILLWORK SECTION J
SCALE: 1" = 1'-0"

9 MILLWORK SECTION K
SCALE: 1" = 1'-0"

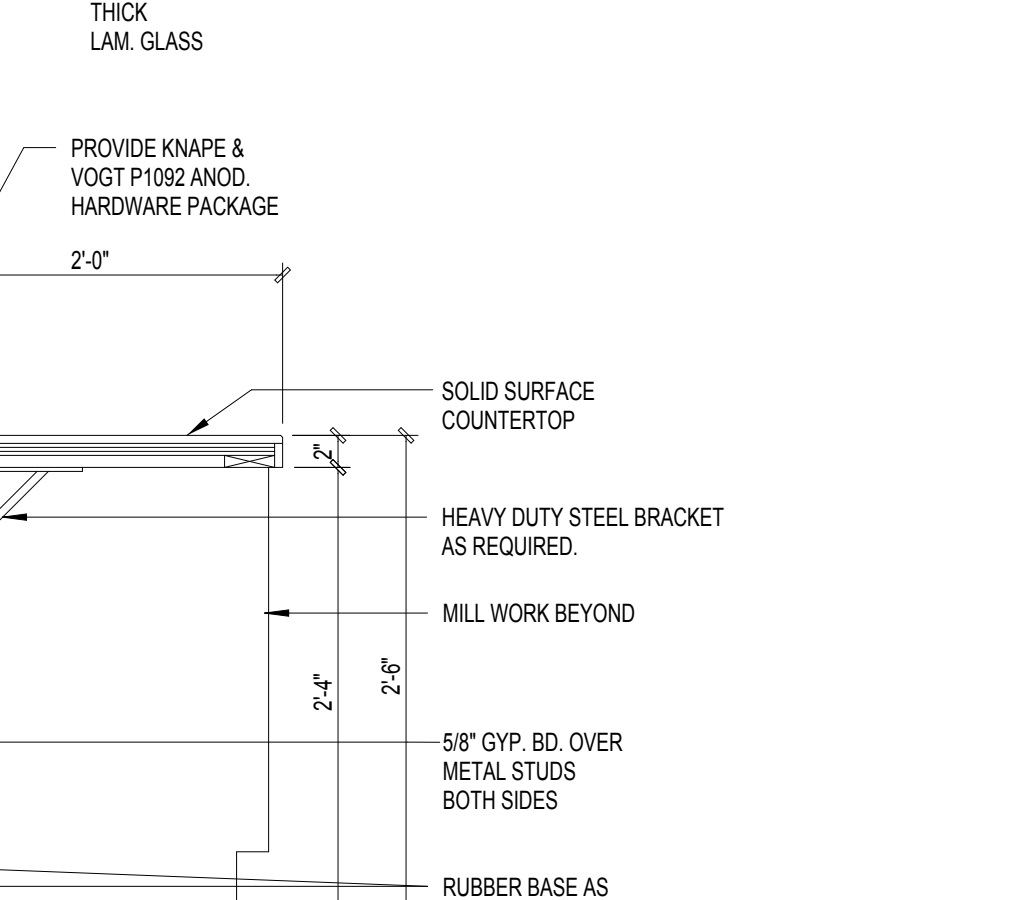
10 PASS THROUGH SECTION
SCALE: 1" = 1'-0"



7 MILLWORK SECTION I
SCALE: 1" = 1'-0"



8 MILLWORK SECTION J
SCALE: 1" = 1'-0"



9 MILLWORK SECTION K
SCALE: 1" = 1'-0"

10 PASS THROUGH SECTION
SCALE: 1" = 1'-0"

11 PASS THROUGH SECTION
SCALE: 1" = 1'-0"

FINISH GENERAL NOTES	
THE CONTRACTOR SHALL:	
1.	ENSURE ALL PAINTS, WALL COVERINGS, AND FINISHES ARE APPLIED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS FOR THE PARTICULAR SURFACE. (REF. SPEC SECTION). NOTIFY ARCHITECT IF EXISTING SUBSTRATES CONFLICT WITH MANUFACTURER SPECIFICATIONS.
2.	ENSURE SAMPLES OF FINISH COLORS SPECIFIED SHALL BE FIELD APPLIED FOR APPROVAL BY ARCHITECT AND OWNER PRIOR TO ORDERING OF MATERIALS. REFER TO SPECIFICATIONS.
3.	COORDINATE BUILDING SECURITY AND BUILDING ALARM CONNECTIONS WITH ARCHITECTS AND OWNER PRIOR TO THE INSTALLATION OF FINISHES.
4.	ENSURE ALL METAL SURFACES SHALL BE SANDED SMOOTH PRIOR TO PAINTING. U.N.O.
5.	ENSURE ALL WALLS SHALL BE PROPERLY SANDED, AND PRIMED FOR PAINTING OR WALL COVERING.
6.	ENSURE FLOOR MATERIAL TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR. U.N.O.
7.	COORDINATE FINISHES WITH INTERIOR ELEVATIONS AND SUPPLEMENTAL FINISH PACKAGES.
8.	LAYOUT FLOORING, TILE, AND BASE MATERIALS AND REVIEW WITH ARCHITECT PRIOR TO INSTALLATION.
9.	VERIFY ALL STARTING POINTS FOR FLOOR AND WALL TILE WITH ARCHITECT IN FIELD PRIOR TO INSTALLATION.
10.	ENSURE ALL WALL AND FLOOR JOINTS ALIGN U.N.O.
11.	ENSURE ALL TILE EDGES TERMINATE INTO FINISHED WALL OR SCHLUTER STRIP. THERE WILL BE NO EXPOSED TILE EDGES.
12.	PROVIDE FLOOR TRANSITION STRIPS AT DISSIMILAR MATERIALS.
13.	PROVIDE SOUND ATTENUATION INSULATION IN ALL INTERIOR WALLS U.N.O.



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Description	
Number	Date
Architect Seal:	
Progress Drawing Set "Not for Regulatory Approval, Permitting or Construction."	
07/15/24	
Date:	07/15/24
Revised:	-
Project No.	2407
Drawn By:	JMS/SEE
Checked By:	IEE
File Name:	
Sheet Title:	MILLWORK SECTIONS
Sheet No.	

DESIGN SPECIFICATIONS

1. THE WORK SHOWN WITHIN THESE CONTRACT DOCUMENTS IS IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE.
2. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION WITHOUT PERMIT APPROVAL FROM THE GOVERNING JURISDICTION. THESE CONSTRUCTION DOCUMENTS ARE ONLY VALID FOR PERMIT APPLICATION FOR ONE YEAR OF PLAN ISSUANCE DATE. CONSTRUCTION MUST BEGIN WITHIN A YEAR OF PERMIT APPROVAL. REVISIONS TO THESE CONTRACT DOCUMENTS MIGHT BE REQUIRED IF PERMIT OR CONSTRUCTION DATES EXCEED THESE LIMITS. ALL REFERENCES TO STANDARDS SUCH AS, BUT NOT LIMITED TO AISC, ACI, ASCE, ASTM, ETC. SHALL BE THE LATEST APPLICABLE EDITION REFERENCED BY THE CODE NOTED ABOVE.
3. CONTRACTOR IS RESPONSIBLE FOR ALL METHODS AND PROCEDURES DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN INTEGRITY OF STRUCTURE DURING CONSTRUCTION.
4. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE DRAWINGS, SPECIFICATION, AND BUILDING CODE REFERENCED ABOVE.
5. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAIL, STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENT SHALL GOVERN. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING FOR SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC., NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, BLOCK-OUTS, FINISHES, AND DIMENSIONS WITH OTHER DISCIPLINES PRIOR TO PROJECT LAYOUT.
6. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD (EOR) IF THERE ARE ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE OTHER CONSULTANT DRAWINGS PRIOR TO FABRICATION AND/OR CONSTRUCTION. STRUCTURAL MEMBERS AND PRINCIPAL OPENINGS HAVE BEEN SHOWN ON STRUCTURAL DRAWINGS TO ACCOMMODATE REQUIREMENTS OF OTHER DISCIPLINES. ADDITIONAL OPENINGS THAT ARE REQUIRED BY SUBCONTRACTORS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. ADDITIONAL STRUCTURAL MEMBERS OR REINFORCEMENT MAY BE NECESSARY.
7. ESTABLISH AND VERIFY ALL OPENINGS, INSERTS, OR EQUIPMENT FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADES. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SUBCONTRACTORS AND EQUIPMENT SUPPLIERS. EQUIPMENT BEING SUPPORTED BY OR SUSPENDED FROM THE STRUCTURE SHALL BE COORDINATED WITH THE MANUFACTURER OF ANY PRE-ENGINEERED FRAMING OR COMPONENTS. ALL OPENINGS SHALL BE PROPERLY REINFORCED AND APPROVED BY THE ENGINEER. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, DECKING, SLABS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
9. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
10. STABILITY AND INTEGRITY OF THIS STRUCTURE RELIES COMPLETELY ON THE FULL INTERACTION OF ALL THE COMPONENTS AND PARTS WITH NO PROVISIONS MADE FOR CONDITIONS OR SEQUENCES OF THE CONSTRUCTION AND THE STRUCTURAL DESIGN BASED ON THIS PREMISE. CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF BRACING FOR ALL WALLS, FORMWORK, SHORING DURING CONSTRUCTION, AND ALL THE COMPONENTS NEEDED FOR THE INTEGRITY AND STABILITY OF THIS BUILDING DURING CONSTRUCTION.
11. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT DURING CONSTRUCTION SO AS NOT TO EXCEED THE DESIGN LIVE LOAD NOTED IN DRAWINGS. REFER TO STANDARD DETAILS FOR ADDITIONAL INFORMATION.
12. ALL ERECTION PROCEDURES SHALL COMPLY WITH OSHA STANDARDS.
13. CONTRACTOR SHALL DETERMINE THE SCOPE OF WORK FROM THE CONTRACT DOCUMENTS TAKEN AS A WHOLE INCLUDING ARCHITECTURAL, CIVIL, INTERIOR DESIGN, LANDSCAPE AND MECHANICAL DRAWINGS. THE STRUCTURAL DRAWINGS SHALL NOT BE CONSIDERED SEPARATELY FOR THE PURPOSES OF BIDDING THE STRUCTURAL WORK. CONTRACTOR SHALL REVIEW THE ENTIRE DRAWING PACKAGE IN ORDER TO DETERMINE THE SCOPE OF STRUCTURAL WORK INCLUDING NECESSARY COORDINATION SHOWN IN OTHER CONTRACT DOCUMENTS.
14. THE USE OF THESE DRAWINGS BY ANY CONTRACTOR, IN LIEU OF PREPARATION OF SHOP DRAWINGS, SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, DUE TO ANY ERRORS THAT MAY OCCUR.
15. THE REPRODUCTION OF THESE DOCUMENTS IS NOT ACCEPTABLE UNLESS APPROVED BY EOR.
16. NOTED SCALES ARE FOR GRAPHIC PURPOSES ONLY. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR THE PURPOSE OF DETERMINING DIMENSIONAL WORK.
17. APPROVED ALTERNATES MAY BE SUBMITTED BY CONTRACTOR AND REVIEWED BY DESIGN TEAM. IF ALTERNATE IS ACCEPTED, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CHANGES AND COSTS NECESSARY TO IMPLEMENT THE CHANGES.
18. DESIGN OF FOUNDATIONS AND STRUCTURAL COMPONENTS IN CONTACT WITH SOIL IS BASED ON THE RECOMMENDATIONS GIVEN IN THE FOLLOWING GEOTECHNICAL REPORT:
- REPORT BY : LOI ENGINEERS
DATE OF REPORT : AUGUST 10, 2023
REPORT NUMBER : FILE NO. J23-1-157
ALLOWABLE BEARING CAPACITY: 2 100 PSF
A. MINIMUM BEARING DEPTH: 18" BELOW GRADE

DESIGN LOADS

1. THE DESIGN LOADS PERTINENT TO THE STRUCTURAL DESIGN OF THE STRUCTURES ARE AS FOLLOWS (TRUSS MANUFACTURER: SEE TRUSS LOADING SCHEDULE FOR TRUSS CHORD DEAD AND LIVE LOADING REQUIREMENTS):
- A. FLOOR DEAD LOADS:
a. ALL APPLICABLE DEAD LOADS
- B. ROOF LIVE LOADS:
a. TYPICAL UNLESS NOTED OTHERWISE 20 PSF
- C. FLOOR LIVE LOADS
a. ASSEMBLY AREAS & LOBBIES 100 PSF
b. OFFICE SPACES 50 PSF
- D. SNOW LOADS
a. SNOW EXPOSURE FACTOR - CE 1.0
b. THERMAL FACTOR - CT 1.1
c. SNOW IMPORTANCE FACTOR - I 1.0
d. GROUND SNOW LOAD - P_g 5 PSF
e. FLAT ROOF SNOW LOAD - P_f 5 PSF
- E. WIND LOADS
a. DESIGN WIND SPEED 105 MPH
b. WIND IMPORTANCE FACTOR 1.0
c. WIND EXPOSURE C
d. RISK CATEGORY II
e. DESIGN METHOD
f. INTERNAL PRESSURE COEFFICIENT
g. COMPONENT & CLADDING WIND PRESSURES: ±0.18
- F. SEISMIC LOADS
a. BUILDING CATEGORY: II
b. SEISMIC IMPORTANCE FACTOR, I_s: 1.00
c. MAPPED SPECTRAL RESPONSE ACCELERATION, S_s: 0.10%g
d. MAPPED SPECTRAL RESPONSE ACCELERATION, S₁: 0.90%g
e. SITE CLASS: D
f. SPECTRAL RESPONSE COEFFICIENT, S_{ps}: 0.3
g. SPECTRAL RESPONSE COEFFICIENT, S_{ps1}: 0.16
h. SEISMIC DESIGN CATEGORY: C
i. BASIC SEISMIC FORCE RESISTING SYSTEM:
H - STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
j. DESIGN BASE SHEAR, V: 0.107W k
k. SEISMIC RESPONSE COEFFICIENT, C_s: 0.1069
l. RESPONSE MODIFICATION FACTOR, R: 3.0
m. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL

CODES

- ALL FABRICATION, ERECTION, AND DESIGN OF STRUCTURAL MEMBERS SHALL MEET THE MINIMUM STANDARDS OF THE FOLLOWING CODES:
- A. INTERNATIONAL BUILDING CODE (IBC) 2021
B. AMERICAN CONCRETE INSTITUTE (ACI): ACI 318-19 AND OTHER APPLICABLE ACI STANDARDS
C. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STEEL CONSTRUCTION MANUAL - FOURTEENTH EDITION
D. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) - STANDARD 7-10
E. AMERICAN WELDING SOCIETY (AWS)
F. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
G. STEEL DECK INSTITUTE (SDI)
H. STEEL JOIST INSTITUTE (SJI)
I. ASTM SPECIFICATIONS
J. AMERICAN IRON AND STEEL INSTITUTE (AISI)
K. WIRE REINFORCEMENT INSTITUTE (WRI)

MATERIAL PROPERTIES

STEEL	WIDE FLANGE MEMBERS	REFER TO STRUCTURAL STEEL SPECIFICATIONS
	STEEL PIPE	
	STEEL TUBE	
	MISC STEEL	
	BOLTS	
WELD	STRUCTURAL STEEL	E70XX
	LIGHT GAUGE METALS	E60XX
CONCRETE	SLABS & FOOTINGS	REFER TO CONCRETE MIX DESIGNS
	PIERS & GRADE BEAMS	NOTES ON THIS SHEET.
	BEAMS & COLUMNS	
REINFORCING	TYPICAL	ASTM A-615 - GRADE 60
	LOW ALLOY/WELDABLE	ASTM A-706 - GRADE 60
ANCHOR RODS	STEEL	ASTM F-1554 - GRADE 36 UNO

BUILDING PAD SPECIFICATIONS

1. REFER TO THE GEOTECH REPORT FOR ALL SUBGRADE PREPARATION REQUIREMENTS.
2. BUILDING PAD SHALL BE PREPARED SO THAT PVR DOES NOT EXCEED THE VALUE(S) LISTED IN THE DESIGN SPECIFICATIONS. REFER TO THE GEOTECHNICAL REPORT FOR PAD PREPARATION REQUIRED TO ACHIEVE THE PVR(S) NOTED.
3. PROVIDE AGGREGATE BASE COURSE AND/OR RADON MITIGATION SYSTEM UNDERNEATH SLAB ON GRADE AS INDICATED BY GEOTECHNICAL REPORT.
4. THE CONTRACTOR SHALL EXCAVATE, PREPARE, AND COMPACT THE BUILDING PAD IN ACCORDANCE WITH THE GEOTECHNICAL REPORT NOTED IN THE DESIGN SPECIFICATION.
5. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF RECORD OF SITE CONDITIONS WHICH MAY NOT BE DESCRIBED ON THE PLANS OR IN THE GEOTECHNICAL REPORT.
6. SLAB SHALL NOT BE PLACED ON UNCONSOLIDATED FILLS OF ANY SIZE UNLESS THE FILL HAS BEEN CONSIDERED IN THE DESIGN OR THE SLAB IS SUPPORTED ON PIERS.
7. UNLESS SPECIFIED OTHERWISE IN THE GEOTECHNICAL REPORT, ALL FILLS SHALL BE COMPACTED TO 95% PROCTOR DENSITY AS DETERMINED IN ASTM D 898. DEEP FILL SHALL BE LAYERED WITH CONSOLIDATED LAYERS OF 8 INCH MAXIMUM THICKNESS.
8. IF ANY PORTION OF THE STRUCTURE IS PLACED ON DEEP FILL, THE ENGINEER OF RECORD SHALL BE NOTIFIED PRIOR TO CONSTRUCTION. TRENCHES FOR BURIED PLUMBING SHALL NOT RUN ALONG OR UNDER THE GRADE BEAMS EXCEPT TO CROSS AT RIGHT ANGLES. TRENCH BACKFILL SHALL BE THOROUGHLY COMPACTED. A CLAY MOISTURE PLUG SHALL BE USED AT THE EDGE OF THE FOUNDATION FOR ALL TRENCHES BACKFILLED WITH SAND.
9. GRADE BEAMS AND FOOTINGS SHALL BE CLEAN AND PER PLAN IN SIZE. BEAMS OR FOOTINGS EXCAVATED DIFFERENTLY IN SIZE OR LOCATION THAN SHOWN ON PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
10. LOOSE SOILS, CLODS, MUD, STANDING WATER, ICE OR FROST, ORGANICS AND VEGETATION, AND TRASH SHALL BE REMOVED FROM THE GRADE BEAMS AND BUILDING PAD PRIOR TO CONCRETE PLACEMENT.
11. PROVIDE A VAPOR RETARDER OR VAPOR BARRIER AS DIRECTED BY THE GEOTECHNICAL ENGINEER OVER THE PREPARED BUILDING PAD. THE THICKNESS SHALL ALSO BE DETERMINED BY THE GEOTECHNICAL ENGINEER. WHEN REQUIRED, THE VAPOR RETARDER/BARRIER SHALL BE LAPPED A MINIMUM OF 12 INCHES AND TAPED AT THE JOINTS TO PROVIDE A CONTINUOUS SHEET UNDER THE SLAB. SECURING THE VAPOR RETARDER/BARRIER TO THE SIDES OF THE GRADE BEAMS AND CUTTING THE MATERIAL IN THE BOTTOM OF THE BEAMS PRIOR TO CONCRETE PLACEMENT IS RECOMMENDED IN ORDER TO GREATLY REDUCE ANY BRIDGING THAT MAY OCCUR.
12. GRADE ADJUSTMENTS SHALL BE MADE WITH ENGINEER FILL AS INDICATED IN GEOTECHNICAL REPORT. FOUNDATION CONDITIONS WHICH DIFFER FROM GEOTECHNICAL REPORT SHALL BE BROUGHT TO ATTENTION OF ENGINEER.

EMBEDDED ITEM SPECIFICATIONS

1. HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE NELSON OR KSM HEADED CONCRETE ANCHORS AND SHALL CONFORM TO ASTM A108.
2. DEFORMED BAR ANCHORS (DBA) SHALL BE NELSON OR KSM DEFORMED BAR ANCHORS AND SHALL BE MADE FROM COLD DRAWN WIRE CONFORMING TO ASTM A496.
3. ANCHORS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUD WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON STUD WELDING COMPANY OR THE KSM WELDING SYSTEMS COMPANY.

SLAB-ON-GRADE SPECIFICATIONS

1. CURING SLABS ON GRADE
a. SLABS ON GRADE SHALL BE WET CURED FOR 7 DAYS AFTER CONCRETE PLACEMENT. WET CURING SHALL BEGIN IMMEDIATELY AFTER FINAL FINISHING OF SLAB SURFACE AND SHALL CONSIST OF CONTINUOUS MISTING BY SPRINKLER OR WET BURLAP. CONTRACTOR SHALL APPLY APPROVED CURING COMPOUND.
2. CURING ELEVATED SLABS
a. ELEVATED SLABS SHALL BE CURED BY APPLYING SHEETS OF PLASTIC OVER THE SURFACE FOR 7 DAYS AFTER CONCRETE PLACEMENT. CONTRACTOR SHALL APPLY APPROVED CURING COMPOUND AFTER REMOVAL OF PLASTIC SHEETS.
3. FLOOR SLAB ISOLATION JOINTS SHALL BE 30 POUND FELT, UNLESS NOTED OTHERWISE.
4. FLOOR SLAB ON GRADE SHALL BE PLACED IN LANES. SPACING OF JOINTS SHALL BE AS SHOWN ON THE FOUNDATION PLANS. CONSTRUCTION JOINTS SHALL BE USED FOR THE JOINTS BETWEEN LANES, WHILE WEAKENED PLANE JOINTS SHALL BE USED ACROSS EACH LANE.
5. CONVENTIONALLY REINFORCED SLABS ON GRADE SHALL HAVE CONTROL OR CONSTRUCTION JOINTS ON COLUMN CENTERLINES IN EACH DIRECTION. ADDITIONAL CONTROL OR CONSTRUCTION JOINTS SHALL BE ADDED SO THAT SPACING OF JOINTS DOES NOT EXCEED THE LESSER OF 24 X SLAB THICKNESS OR 18 FEET IN EACH DIRECTION. ALSO, THE AREA BOUNDED BY THE JOINTS SHALL NOT EXCEED APPROXIMATELY 325 SQUARE FEET AND THE LENGTH SHALL NOT EXCEED 1.5 TIMES THE WIDTH. THERE SHALL BE AN ADDITIONAL CONTROL JOINT PLACED 5 FEET FROM THE EDGE OF THE BUILDING. CONTROL JOINTS MAY BE CUT OR FORMED. DEPTH OF CONTROL JOINTS SHALL BE 1/4 OF THE SLAB THICKNESS OR 1" MIN.
6. ALL SLEEVES SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE OR PVC. NO CONDUIT LARGER THAN SHALL BE RUN IN STRUCTURAL CONCRETE MEMBERS OR SLAB WITHOUT APPROVAL OF ENGINEER.
7. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED IN ADVANCE OF FOUNDATION CONSTRUCTION.
8. WHERE THE SLAB IS TO RECEIVE SENSITIVE FLOOR MATERIAL SUCH AS TILE, THE JOINTS SHALL BE ALIGNED WITH THE JOINTS IN THE FINISHED FLOORING MATERIAL.
9. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL PLANS FOR THE AREAS WHERE THE SLAB ON GRADE IS STAINED, STAMPED OR TO RECEIVE A PATTERN OF CONTROL JOINTS.

REINFORCED CONCRETE SPECIFICATIONS

1. ALL CONCRETE SHALL COMPLY WITH THE FOLLOWING:
- | REINFORCED CONCRETE MIX DESIGNS. | | | | |
|----------------------------------|----------------------------------|---------------|-------------|--------------------|
| LOCATION | CONCRETE STRENGTH F _c | MAX w/c RATIO | AIR CONTENT | MAX AGGREGATE SIZE |
| SLABS ON GRADE & FOOTINGS | 3,000 PSI | 0.55 | 0+1.5% | 1" |
2. CONCRETE SUPPLIER SHALL DETERMINE SLUMP FOR EACH MIX DESIGN TO PROVIDE PROPER WORKABILITY, ADEQUATE CONSOLIDATION AROUND REINFORCING STEEL, GOOD FINISHING AND GOOD OVERALL PERFORMANCE.
3. CONCRETE SLUMP SHALL BE SHOWN ON EACH CONCRETE MIX DESIGN. SLUMP SHALL BE TESTED AT EACH TRUCK FOR THE PURPOSE OF DETERMINING AND ESTABLISHING CONSISTENCY. THOSE BATCHES FOR WHICH THE TESTED SLUMP DOES NOT MATCH THE MIX DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND MAY BE REJECTED. IN NO CASE SHALL CONCRETE THAT IS STEEL OR HARD TROWEL FINISHED INCLUDE ENTRAINED AIR.
4. AIR CONTENT FOR EACH BATCH OF CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ASTM C173 OR C231 AT THE POINT OF PLACEMENT. ADMIXTURES, AGGREGATES ETC, MAY NOT CONTAIN CHLORIDE SALTS.
5. CONCRETE MATERIALS SHALL COMPLY WITH THE FOLLOWING:
- A. PORTLAND CEMENT TYPE VII AND CONFORMING TO THE REQUIREMENTS OF ASTM C150
- B. MAXIMUM SOLUBLE CHLORIDE ION CONTENT SHALL BE LESS THAN 0.06 PERCENT BY WEIGHT OF CEMENT IN ACCORDANCE WITH ACI 350, SECTION 4.4.1
- C. NORMAL WEIGHT AGGREGATE ASTM C33
- D. LIGHT WEIGHT AGGREGATE ASTM C330
- E. FINE AGGREGATE NATURAL SAND
- F. FLY ASH ASTM C618, CLASS C OR F 20% MAX, INCLUDING POZZOLANS
- G. AND SILICA FUME
- H. SILICA FUME ASTM C1240, 10% MAX
- I. AND SILICA FUME ASTM C989, 50% MAX, INCLUDING POZZOLANS AND SILICA FUME
- J. CURING ASTM C94 AND POTABLE
- K. AND ASTM C260
- L. WATER ASTM C330
- M. WATER REDUCING MIXTURES ASTM C494
- N. AIR ENTRAINING ADMIXTURES ASTM C260
- O. THE FOLLOWING DESIGN STANDARDS SHALL APPLY:
- P. TOLERANCES FOR CONST. ACI 117
- Q. READY-MIX CONCRETE ASTM C94 AND C685
- R. MIXING, TRANSPORTING AND PLACEMENT ASTM 301, ACI 304, ACI318
- S. DETAILING ACI 315
- T. FINISHING ACI 302.1R
- U. CURING ACI 308R AND ACI 302.1R
- V. HOT AND COLD WEATHER ACI 305R AND 306R
- W. COVER AND PROTECTION OF CONCRETE SHALL COMPLY WITH ACI 318 AS WELL AS MINIMUM COVER FOR FIRE RESISTANCE PER THE CODE ADOPTED. REFER TO SCHEDULE BELOW FOR MINIMUM CLEAR DISTANCES.
- X. CONCRETE SUPPLIER SHALL BE CERTIFIED ACCORDING TO THE NATIONAL READY MIXED CONCRETE ASSOCIATION'S CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES.
- Y. CONCRETE MIX DESIGNS SHALL BE DETERMINED BY QUALIFIED LAB AND REGISTERED ENGINEER. MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL AT LEAST 7 DAYS PRIOR TO THE DELIVERY OF THE MIX TO THE JOB SITE.
- Z. CONCRETE FOR CYLINDERS AND SLUMP TESTS SHALL BE TAKEN AT THE POINT OF PLACEMENT.
- AA. WATER MAY NOT BE ADDED TO BATCH AT THE SITE UNLESS IT IS SPECIFICALLY NOTED THAT IT MAY BE ADDED ON TICKET PROVIDED BY THE READY-MIX COMPANY. IN NO CASE MAY MORE WATER BE ADDED TO MIX THAN ALLOWED ON TICKET.
- AB. CONSTRUCTION OR CONTROL JOINTS, U.N.O. ON PLAN, SHALL BE CONSTRUCTED AS NOTED IN SLAB ON GRADE SPECIFICATIONS.
- AC. COORDINATE JOINTS SHALL BE SAWN WITHIN 6 -12 HOURS AFTER FINISHING.
- AD. CONTROL JOINTS SHALL BE SAWN WITHIN 8 HOURS AFTER FINISHING.
- AE. CONCRETE JOINTS SHOULD BE SAWN AS SOON AS THE CONCRETE WILL WITHSTAND THE ENERGY OF SAWING WITHOUT RAVELING OR DISLOGGING AGGREGATE PARTICLES.
- AF. CONSTRUCTION JOINTS AS NOTED ON MAY BE MOVED OR NEW ONES ADDED IF APPROVED BY ENGINEER.
- AG. HORIZONTAL JOINTS SHALL NOT BE ALLOWED UNLESS NOTED IN THE DRAWINGS.
- AH. CONSTRUCTION JOINTS BETWEEN PIERS AND PIER CAPS, FOOTINGS AND PLINTHS, AND COLUMNS OR WALLS SHALL BE PREPARED BY ROUGHENING THE CONTACT SURFACE TO A DEPTH OF 1/4" OVER THE FULL CONTACT AREA. AFTER ROUGHENING, THE SURFACES SHALL BE CLEANED AND FREE OF DEBRIS.
- AI. ALL KEYWAYS SHALL BE 2X4 AND CONTINUOUS UNLESS NOTED OTHERWISE.
- AJ. WATERSTOPS SHALL BE PROVIDED WHERE SPECIFIED IN ARCHITECTURAL DRAWINGS OR AS NOTED BY THE OWNER. WATERSTOPS MAY ONLY BE PLACED IN KEYWAYS WHERE INDICATED BASED ON FORMING GEOMETRY AND REBAR PLACEMENT. WHEN THIS IS DONE THE KEY WAY SIZE SHOULD BE INCREASED SO THAT THE EFFECTIVE CONCRETE KEY SIZE IS NOT REDUCED BY THE WATER STOP. ADEQUACY OF THE WATERSTOP IS THE RESPONSIBILITY OF THE ARCHITECT OR THE WATERPROOFING CONSULTANT. HENRY SF302 "SYNKO-FLEX" TYPE WATER STOPS.
- AK. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.
- AL. ALL FINISHES SHALL BE PER ARCHITECTURAL DRAWINGS. PRIOR TO CONSTRUCTING FORMS OR PLACING CONCRETE, CONTRACTOR SHALL VERIFY FINISHES WITH ARCHITECT.
- AM. CONTRACTOR SHALL IDENTIFY EACH TYPE OF FLOORING UTILIZED ON THE PROJECT AND DETERMINE FLOOR SURFACE CLASSIFICATION FOR EACH TYPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS. CONTRACTOR SHALL PROVIDE APPROPRIATE FLATNESS AND LEVELNESS FOR EACH CLASSIFICATION IN ACCORDANCE WITH ACI 117.
- AN. PRIOR TO CONSTRUCTING FORMS OR PLACING CONCRETE, CONTRACTOR SHALL NOTIFY SUBCONTRACTORS TO BE SURE SLEEVES, CONDUIT, CHASES, EMBEDDED ITEMS, BLOCK-OUTS, ETC. ARE PROPERLY INSTALLED. CONTRACTOR SHALL NOTIFY ENGINEER OR OWNERS' REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE TO ALLOW TIME FOR OBSERVATION OF FORMS AND REINFORCING.
- AO. CONCRETE SHALL BE PROTECTED FROM RAIN AND SNOW.
- AP. AFTER FINISHING, CONCRETE SHALL BE CURED BY KEEPING CONCRETE DAMP AND COVERING WITH PLASTIC OR BURLAP FOR A MINIMUM OF 72 HOURS. A CURING COMPOUND MAY BE USED INSTEAD IF APPROVED BY ENGINEER.
- AQ. REPAIR RUNS, AND OTHER DAMAGED AREAS AS DIRECTED BY ENGINEER.
- AR. REPAIR CONCRETE EXHIBITING HONEYCOMBS, ROCK POCKETS, AND SPALL, OR OTHERWISE DAMAGED SURFACES WITH DRY PACK CEMENT GROUT AND FINISHED FLUSH WITH ADJOINING SURFACE.

REINFORCING STEEL SPECIFICATIONS

1. REINFORCING BARS SHALL BE GRADE 60 AND CONFORM TO THE REQUIREMENTS OF ASTM A615.
2. COMPLETE REINFORCEMENT DRAWINGS SHALL BE PREPARED BY FABRICATOR AND SUBMITTED TO ENGINEER FOR REVIEW.
3. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS ONLY.
4. WELDED WIRE FABRIC SHALL BE LAPPED AT LEAST 2 MESHES, BUT NOT LESS THAN 12 INCHES.
5. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE LATEST EDITION OF ACI 318 AND THE CRSI "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION", AND AS MODIFIED BY THE DRAWINGS.
6. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
7. WELDING OF REINFORCING BARS SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. IF WELDING IS PERMITTED, IT SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.4.
8. REINFORCING BARS, WELDED WIRE FABRIC AND ACCESSORIES SHALL BE STORED ABOVE THE GROUND SURFACE UPON PLATFORMS, SKIDS OR OTHER SUPPORTS.
9. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE SHALL BE CLASS "B" TENSION LAP SPLICES PER SCHEDULE. STAGGER ALTERNATING SPLICES A MINIMUM OF ONE LAP LENGTH.
10. ALL SPLICE LOCATIONS SUBJECT TO APPROVAL AND SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
11. EXTEND ALL HORIZONTAL REINFORCING CONTINUOUSLY AROUND CORNERS AND INTERSECTIONS OR PROVIDE BENT CORNER BARS TO MATCH LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS.
12. ALL REINFORCING STEEL BARS CROSSING A CONSTRUCTION JOINT SHALL CONFORM TO ONE OF THE FOLLOWING:
- A. SPLICE CONNECTION SHALL DEVELOP FULL TENSILE CAPACITY OF BAR OR.
- B. INSERTS SHALL BE "ZAP SCREW LOCK" TYPE II.
13. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. BARS MAY NOT BE BUNDLES AND SPACED FARTHER APART UNLESS APPROVED BY ENGINEER.
14. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SKEW HOOKS AS NECESSARY TO PROVIDE ADEQUATE CONCRETE COVER.
15. SECURELY TIE AND SUPPORT ALL BARS IN POSITION BEFORE PLACING CONCRETE AS REQUIRED BY ACI IN ORDER TO SECURE DETAILED POSITIONING AND CLEARANCE DURING CONCRETE PLACEMENT AND PROVIDE STRAIGHT RUNS WITH NO SAGGING.
16. SPLICED BARS SHALL BE PLACED AT THE SAME EFFECTIVE DEPTH UNLESS NOTED OTHERWISE.
17. REINFORCING BARS SHALL BE PLACED AT THE SAME EFFECTIVE DEPTH UNLESS NOTED OTHERWISE.

POST-INSTALLED ANCHORS

- EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, AS PROVIDED BY HILTI, INC. OR APPROVED EQUAL. CONTACT HILTI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.
- A. ANCHORS TO CONCRETE
- a. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
1. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD PER ICC ESR-3187.
2. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E THREADED ROD PER ICC ESR-3187.
3. HILTI HIT-RE-500-V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD PER ICC ESR-3814 FOR SLOW CURE APPLICATIONS.
- b. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
1. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
2. HILTI HIT-RE-500-V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3814.
- c. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBMITTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIRS HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
- d. INSTALL ANCHOR PER THE MANUFACTURER INSTRUCTION, AS INCLUDED IN THE ANCHOR PACKAGING.
- e. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFIS SYSTEM.
- f. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO COMMENCEMENT OF INSTALLING ANCHORS.
- g. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- h. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURAL DRAWINGS MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED OTHERWISE THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY HILTI FERROSCAN, GPR, X-RAYING, CHIPPING, OR OTHER APPROVED MEANS.

REBAR CLEAR COVER, EMBEDMENTS & SPLICE SCHEDULES

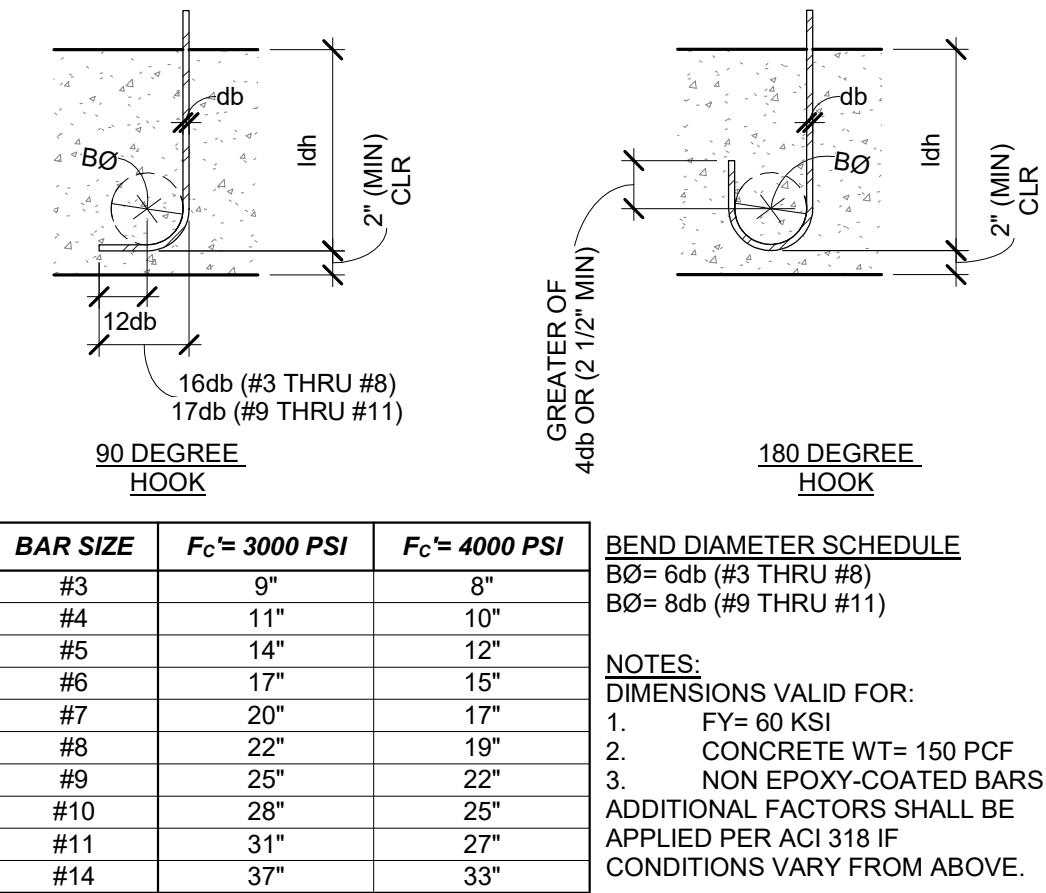
CONCRETE COVER FOR REINFORCING		
LOCATION	MIN COVER	
UNFORMED SURFACE ADJACENT TO EXCAVATION	3"	
SURFACES INSIDE OF OZONE CONTACTORS EXPOSED TO OZONE IN WATER OR AIR	3"	
FORMED OR TOP SURFACES EXPOSED TO WEATHER OR SATURATED AIR, SUBMERGED OR IN CONTACT WITH EARTH, INCLUDING STIRRUPS, TIES OR SPIRALS	2"	
OTHER LOCATIONS: BARS IN BEAMS OR GIRDRS, INCLUDING STIRRUPS AND COLUMN SPIRALS OR TIES	1 1/2"	
SLABS, WALLS AND JOISTS	1 1/2"	
#6 AND LARGER	1 1/2"	
#5 AND SMALLER	1"	

NOTE:
TOLERANCES FOR CONCRETE COVER AND THE FABRICATION AND PLACEMENT OF REINFORCEMENT SHALL CONFORM TO ACI 117.

TENSION LAP SPLICE LENGTHS					
VALUES SHOWN ARE FOR TOP BARS; FOR OTHER BARS DIVIDE VALUE BY 1.3					
BAR SIZE	F _c ≈ 3000 PSI	CLASS A	F _c ≈ 4000 PSI	CLASS A	CLASS B
#3	22"	20"	19"	25"	25"
#4	29"	38"	25"	33"	33"
#5	36"	47"	31"	41"	41"
#6	43"	56"	37"	48"	48"
#7	63"	82"	54"	71"	71"
#8	72"	94"	62"	81"	81"
#9	81"	106"	70"	91"	91"
#10	91"	119"	79"	103"	103"
#11	102"	132"	87"	104"	104"

NOTES FOR TENSION DEVELOPMENT LENGTHS AND LAP SPLICE SCHEDULES:

1. SCHEDULE VALID FOR:
a. FY= 60 KSI
b. CONCRETE WT= 150 PCF
c. NON EPOXY-COATED BARS
2. TOP BARS ARE BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE BAR. THIS IS ONLY APPLICABLE FOR BARS THAT RUN HORIZONTALLY. ADDITIONAL FACTORS SHALL BE APPLIED PER ACI 318 IF CONDITIONS VARY FROM ABOVE.



BAR SIZE	F _c ≈ 3000 PSI	F _c ≈ 4000 PSI	BEND DIAMETER SCHEDULE
#3	9"	8"	BØ= 6db (#3 THRU #8)
#4	11"	10"	BØ= 8db (#9 THRU #11)
#5	14"	12"	
#6	17"	15"	
#7	20"	17"	
#8	22"	19"	
#9	25"	22"	
#10	28"	25"	
#11	31"	27"	
#14	37"	33"	

- NOTES:
DIMENSIONS VALID FOR:
1. FY= 60 KSI
2. CONCRETE WT= 150 PCF
3. NON EPOXY-COATED BARS
- ADDITIONAL FACTORS SHALL BE APPLIED PER ACI 318 IF CONDITIONS VARY FROM ABOVE.

C5 TYPICAL END HOOKS DEVELOPMENT LENGTH (LDH) 3/4" = 1'-0"

ES 2dio architecture

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LUMINA DESIGN STUDIO

E-mail: luminadesignstudio1@gmail.com

i1 Warehouse & Office for: ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008

CME CONSULTING ENGINEERS

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Engineer's Seal: MIGUEL A. BENAVENTE, NEW MEXICO, 27523, PROFESSIONAL ENGINEER

7/12/2024

Date: 07/12/2024

Revised: --

Project No. STR0507.24

Drawn By: UA

Checked By: MB

File Name:

Sheet Title: GENERAL NOTES

Sheet No.

S-001

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i1 Warehouse & Office

for:

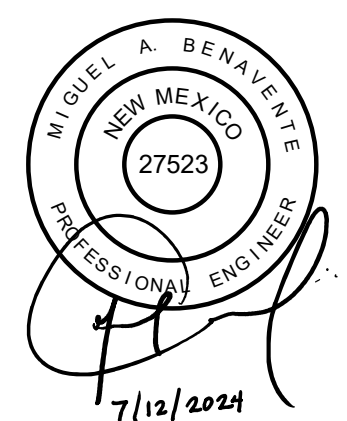
ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008

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Number	Date	Description

Engineer's Seal:



Date: 07/12/2024

Revised: _____

Project No. OTD0507.04

Drawn By: _____

Checked By: _____

File Name: _____

Sheet Title:
**TYPICAL FOUNDATION
DETAILS**

Sheet No.

S-002



**BENAVENTE STRUCTURAL
ENGINEERING CONSULTING, LLC**
6006 N. Mesa St. Suite 709
El Paso, TX. 79912
miquel@benasec.com 915.999.7178

1. DETAIL, FABRICATE, AND ERECT ALL STRUCTURAL STEEL IN CONFORMANCE WITH "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), LATEST EDITION.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

- | | |
|--------------------|---------------------------|
| WIDE FLANGE SHAPES | A992, A572-50 (FY=50 KSI) |
| CHANNELS | A992, A572-50 (FY=50 KSI) |
| PLATES & ANGLES | A36 (FY=36 KSI) |
| RECTANGULAR HSS | A500 GRADE B (FY= 46 KSI) |
| ROUND HSS | A500 GRADE B (FY=42 KSI) |

BOLTS:
IN WOOD A307
IN STEEL TO STEEL GRAVITY CONNECTIONS ASTM A325 (3/4"Ø MIN)
IN VERTICAL BRACES AND MOMENT
FRAMES, STEEL TO STEEL CONNECTIONS A325SC, A490SC

MISCELLANEOUS CONNECTIONS
SUCH AS BRIDGING A307
ANCHOR BOLTS A36 OR F1554 (FY=36 KSI)

3. BOLTS IN BEARING TYPE CONNECTIONS (N OR X) SHALL BE TIGHTENED IN ACCORDANCE WITH THE "TURN OF NUT" METHOD AND SHALL HAVE HARDENED WASHER PLACED UNDER THE ELEMENT TO BE TIGHTENED.
4. SLIP CRITICAL TYPE CONNECTIONS (SC) SHALL BE IDENTIFIED BY INDICATING WASHERS OR TENSION CONTROL BOLTS (TDB) AND SHOULD BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- UNLESS NOTED OTHERWISE ON DRAWINGS BOLTED CONNECTIONS SHALL BE OF THE FOLLOWING TYPES:
- | | |
|------------------------|-----------------|
| A. SHEAR CONNECTIONS | BEARING OR SLIP |
| B. TO BEAMS OR COLUMNS | CRITICAL |
| C. MOMENT FRAMES | SLIP CRITICAL |
| D. BRACED FRAMES | SLIP CRITICAL |
| E. MISCELLANEOUS | BEARING |

- WELDING SHALL CONFORM WITH THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE" AWS D1.1
6. SPlicing OR CUTTING OPENINGS IN STRUCTURAL MEMBERS IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER OF ALL STEEL MEMBERS SHALL BE SUBMITTED TO THE ENGINEER OF DRAWINGS. WHERE NO CAMBER IS SPECIFIED, BEAMS SHALL BE FABRICATED SUCH THAT NATURAL CAMBER PRESENT IN BEAM IS UPWARD.
7. SHOP DRAWINGS SHALL BE FOR COMPLETE FABRICATION AND ERECTION. DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO STEEL FABRICATION AND/OR DELIVERY. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL AND MISCELLANEOUS STEEL, METAL DECK, HANDRAILS, STAIRS, AND THEIR CONNECTIONS. ALL SHOP DRAWINGS FOR STRUCTURAL STEEL, CONNECTIONS, MISCELLANEOUS STEEL, METAL DECK, HANDRAILS, STAIRS, AND THEIR CONNECTIONS SHALL BE PREPARED BY AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
8. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW IN COMPLIANCE WITH ALL CURRENT CODES AND COMPLETE DETAILS FOR THE STRUCTURAL STEEL WORK BASED UPON THE CONTRACT DRAWINGS (ALL DRAWINGS INCLUDING STRUCTURAL, ARCHITECTURAL AND MEP ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE SHOP DRAWINGS AND FOR SHOP AND FIELD MIS-FABRICATIONS. THE ACCEPTANCE OF THE WORK BY THE ENGINEER SHALL NOT SERVE AS A RELIEF FROM RESPONSIBILITY FOR THE CORRECTNESS OF THE DETAILS. ENGINEER'S SHOP DRAWING REVIEW COVERS GENERAL DESIGN ONLY.
9. PRIOR TO DETAILING CONNECTIONS FOR STRUCTURAL STEEL, THE STEEL FABRICATOR SHALL SUBMIT FOR APPROVAL REPRESENTATIVE DETAILS THAT CALCULATE ALL CONNECTIONS. STRUCTURAL STEEL CONNECTION TO BE UTILIZED. AFTER APPROVAL THE DIRECTIONS MAY BE INCORPORATED INTO THE SHOP DRAWINGS ALONG WITH A TABLE OF DESIGN CAPACITIES FOR THE RANGE OF CONNECTIONS TO BE USED.
10. EXPOSED STEEL FRAMING MEMBERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AIAA 100.20.
11. ANY AND ALL MIS-FABRICATIONS OF STRUCTURAL STEEL SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE ERECTION OF THE MEMBER.
12. WELDING ELECTRODES SHALL CONFORM TO AWS D1.1 GRADE E70XX. E80 SERIES ELECTRODES SHALL BE USED FOR ASTM A708 REINFORCING BARS.
13. WELDING AND TESTING SHALL BE SUPERVISED BY A QUALIFIED CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY AND HAVING CURRENT EXPERIENCE IN TYPE OF WELDS SHOWN ON THE DRAWINGS OR NOTES. ALL DRAWINGS PER AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELDS IN FIELD OR FIELD WELDS IN SHOP. SHOP WELDS OR FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS.
14. FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY. TEST RESULTS SHALL BE REVIEWED BY QUALIFIED PERSONNEL AND ACCEPTED PRIOR TO REVIEW BY ENGINEER.
15. HEADED STUDS SHALL BE NELSON GRANULAR FLUX-FILLED HEADED ANCHOR STUDS OR APPROVED EQUAL MADE FROM COLD FINISHED LOW CARBON STEEL AND SHALL CONFORM FOR ASTM A108. GRADES 105 OR 1020 WITH A MINIMUM TENSILE STRENGTH OF 60,000 PSI. STUD WELDING OR COLD CHAIN WELDING SHALL BE USED FOR ALL HEADED STUDS.
16. DRY PACK FOR COLUMN BASE PLATES AND BEARING PLATES SHALL BE NONMETALLIC SHRINKAGE-RESISTANT GROUT WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
17. FABRICATOR AND ERECTOR SHALL BE ALSO APPROVED AND APPROVED BY THE ENGINEER WHERE PROJECT IS LOCATED.
18. REFER TO ARCHITECTURAL PLANS FOR ALL FIRE-PROOFING REQUIREMENTS.
19. NON-SHRINK GROUT SHALL CONSIST OF PORTLAND CEMENT, SAND AND WATER AND WILL BE PROPORTIONED TO ACHIEVE A DESIGNED STRENGTH OF 3,500 PSI AT 28 DAYS OR THE SCHEDULED CONCRETE STRENGTH, WHICHEVER IS GREATER.
20. DRY-PACK GROUT UNDER COLUMN BASE PLATES AND AT POCKETS FOR ANCHOR BOLTS AFTER ERECTION OF THE MINIMUM AMOUNT OF FRAMING NECESSARY TO MAINTAIN A PLUMB POSITION.
21. ALL JOINTS AND CONNECTIONS SHALL BE PROTECTED. JOINTS WHERE INDICATED FOR FULL WIDTH AND THICKNESS OF PANEL, JOINTS SHALL BE CLEANED OF ALL LOOSE DIRT OR OTHER CONTAMINATES PRIOR TO GROUTING.

1. MINIMUM CLEAR SPACING OF BOLTS ≥ 3 INCHES.
2. ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTION PLATES AND ANGLES TO BE ASTM GR A36.
3. MINIMUM DISTANCE FROM COPED EDGE TO CENTER OF NEAREST BOLT IS 1 1/2 INCHES.
4. MAXIMUM TOP FLANGE COPE IS 1 1/2 INCHES.
5. MAXIMUM DISTANCE FROM CENTER OF BOLT TO FACE OF SUPPORT FOR SINGLE PLATE SHEAR CONNECTIONS IS 3 INCHES.
6. DOUBLE ANGLE CONNECTIONS UTILIZE THE LONGER LEG AS THE OUTSTANDING LEG (I.E. THE LONGER LEG CONNECTS TO THE SUPPORT).
7. DISTANCE FROM END OF BEAM TO SUPPORT SHALL BE MAXIMUM OF 1/2 INCH IN ALL CASES.
8. ALL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD AISC WELDED OR AISC BOLTED CONNECTIONS AND SHALL HAVE SUFFICIENT CAPACITY TO SUPPORT THE END REACTION SHOWN ON THE DRAWINGS.

1. K SERIES STEEL JOISTS BEARING ON STEEL BEAMS, CONCRETE OR MASONRY SHALL BE SECURED WITH A MINIMUM OF (2) 3 INCH LONG, 1/8 INCH FILLET WELDS ON EACH SIDE.
2. PROVIDE FLAT BEARING FOR ALL JOISTS.
3. PROVIDE CAMBER IN ALL JOISTS IN ACCORDANCE WITH SJI SPECIFICATIONS.
4. FOR POINT LOADS ATTACHING TO NON PANEL POINTS OF CHORDS, REFER TO TYPICAL POINT LOAD ON JOIST DETAIL.
5. JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 12 POUNDS PER SQUARE FOOT.

1. ROOF DECK
 - a. **ROOF DECK TYPE A**
(TYPICAL ROOF DECK - G60 GALVANIZED)
PROFILE: 1.5 "B"
GAGE: 22 GA
SPAN CONDITION: TRIPLE SPAN
lp: 0.201 in²/ft
Sp: 0.234 in²/ft
In: 0.222 in²/ft
Slt: 0.247 in²/ft
F_y: 50 ksi
2. FLOOR DECK
 - a. **FLOOR DECK**
(TYPICAL FLOOR DECK - G60 GALVANIZED)
PROFILE: 2VL2VL
GAGE: 20 GA
SPAN CONDITION: TRIPLE SPAN
lp: 0.409 in²/ft
In: 0.341 in²/ft
Sp: 0.406 in²/ft
Slt: 0.346 in²/ft
F_y: 50 ksi

SINGLE SHEAR PLATE CONNECTION SCHEDULE					
A325 TYPE "X" BOLTS - 3/4"Ø (MIN)					
BEAM DEPTH	NUMBER OF BOLTS	DIAMETER	BOLT GRADE	PLATE	WELD
W10	2	3/4"Ø	A325	5/16"	1/4" FILLET
W12, W14	3	3/4"Ø	A325	5/16"	1/4" FILLET
W16	4	3/4"Ø	A325	3/8"	1/4" FILLET
W18	5	3/4"Ø	A325	3/8"	1/4" FILLET
W21	6	7/8"Ø	A325	3/8"	5/16" FILLET
W24	6	7/8"Ø	A325	3/8"	5/16" FILLET

(C2) $1\frac{1}{2}" = 1'-0"$

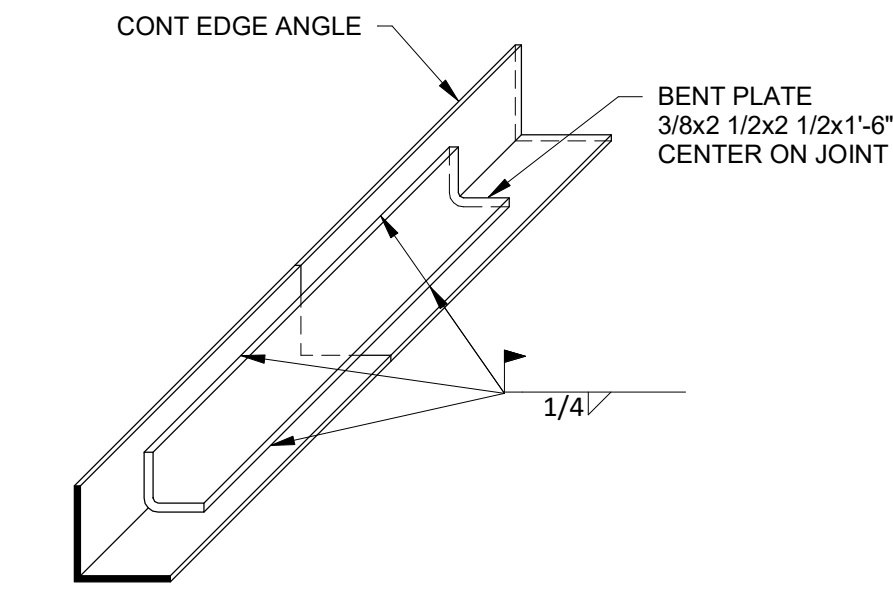
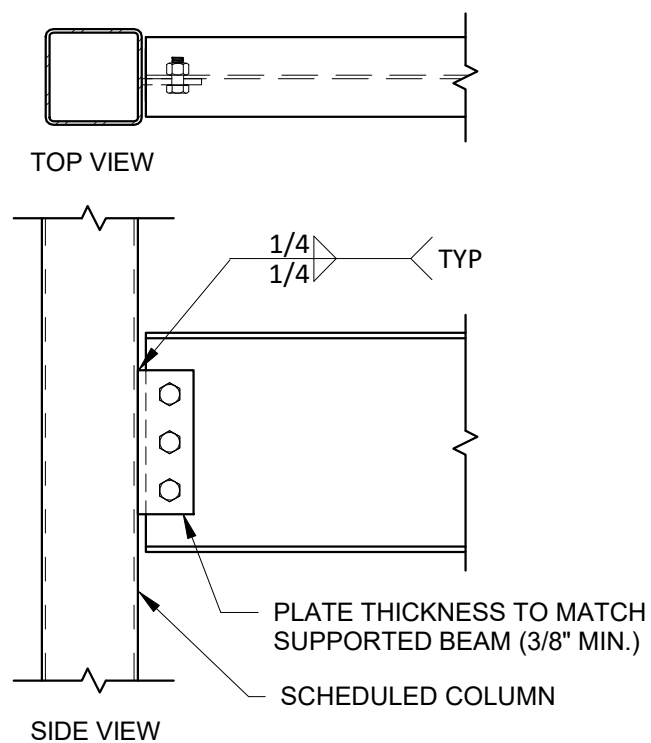


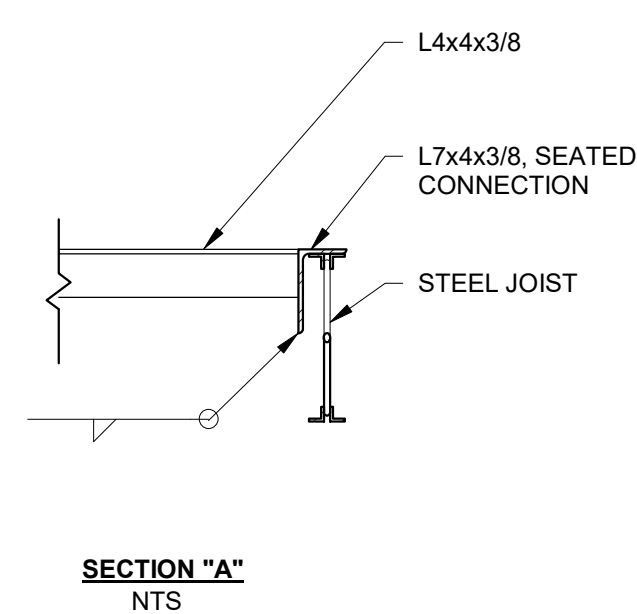
Diagram illustrating the components of a typical roof framing system:

- TYPICAL ROOF DECK
- TYPICAL STEEL FRAMING BEAM
- TYPICAL JOIST BRIDGING
- TYPICAL JOIST

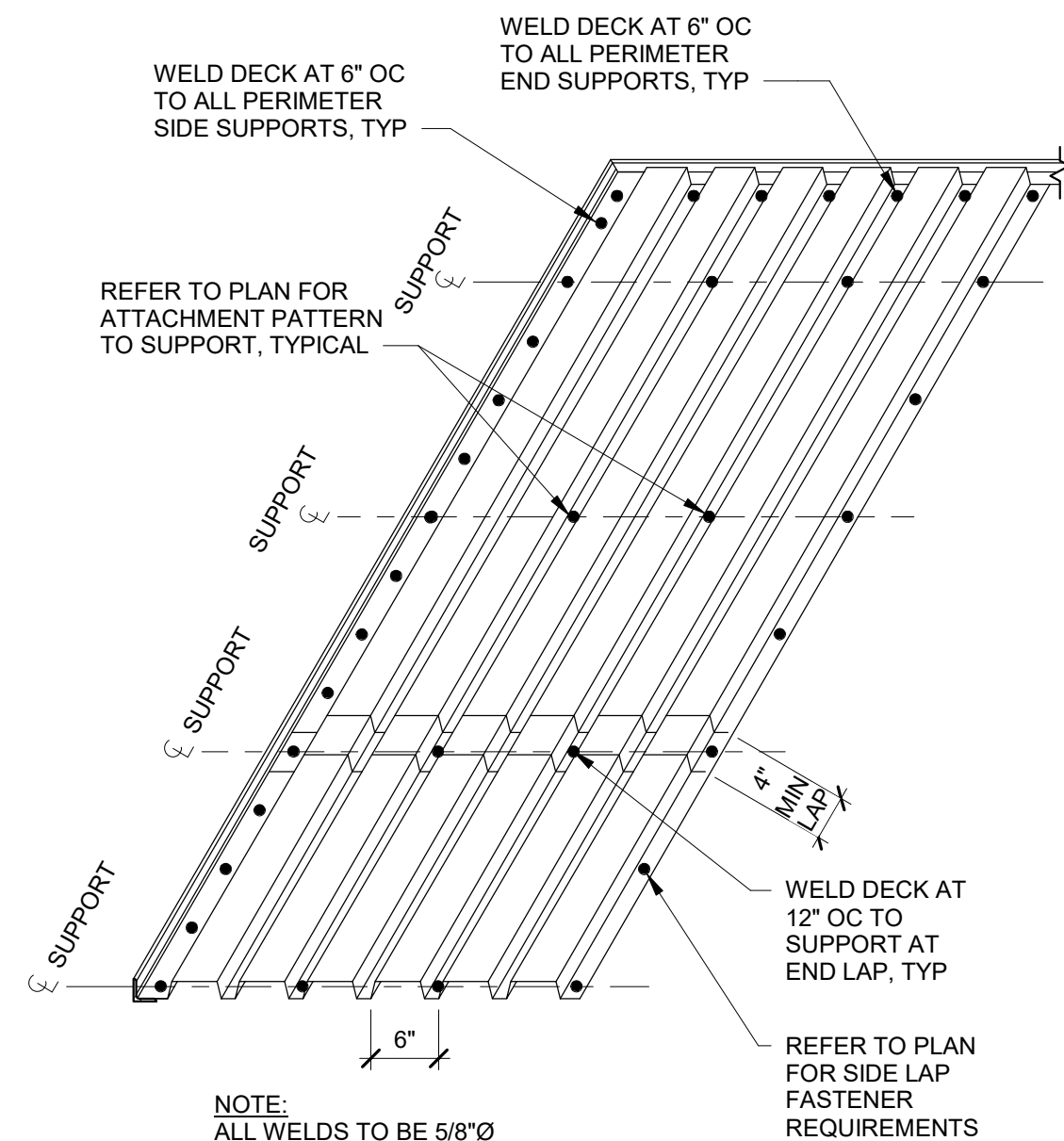
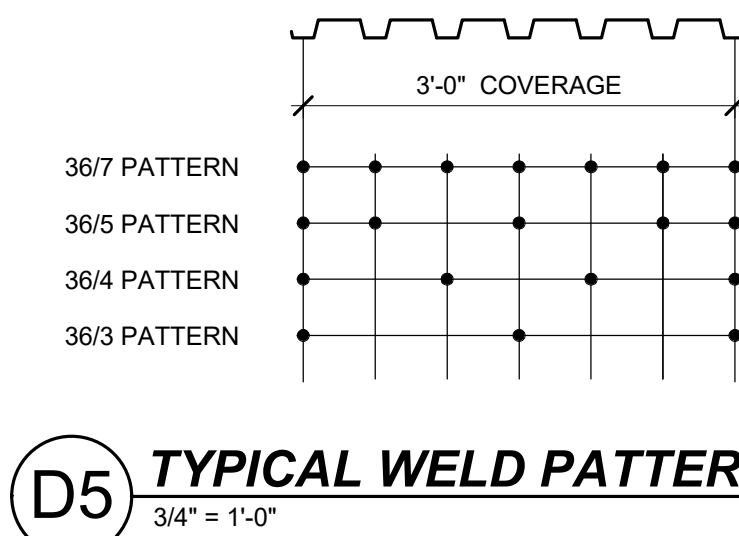


UNLESS SPECIFICALLY DESIGNED DIFFERENTLY AND SHOWN IN A DETAIL.
REF CHART IN THIS SHEET FOR NUMBER OF BOLTS REQUIRED IN SHEAR PLATE.

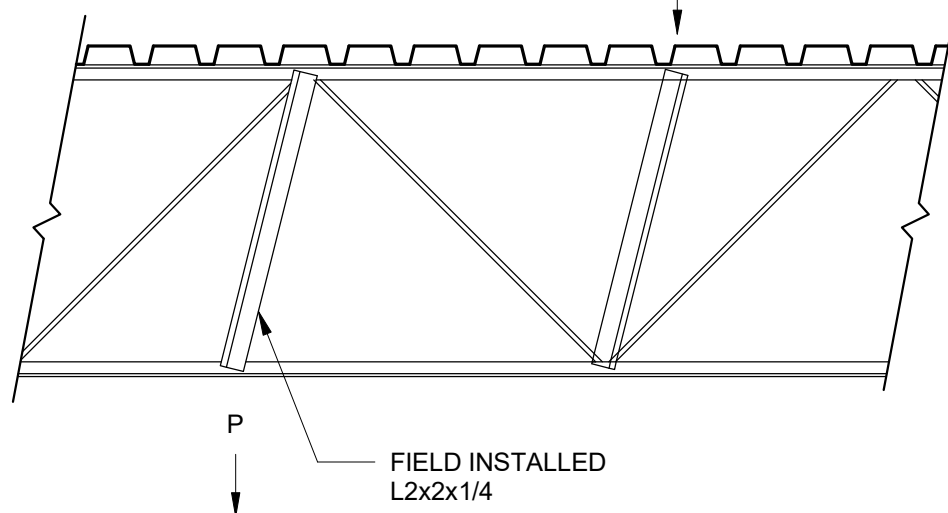
DEFINITION
 $1'' \equiv 1'-0''$



BOLT, WELD AND SINGLE PLATE CONNECTION PLATE AND A-325 TYPE X BOLTS, UNLESS SPECIFICALLY DESIGNED DIFFERENTLY AND SHOWN IN A DETAIL, REF CHART IN THIS SHEET FOR NUMBER OF BOLTS REQUIRED .

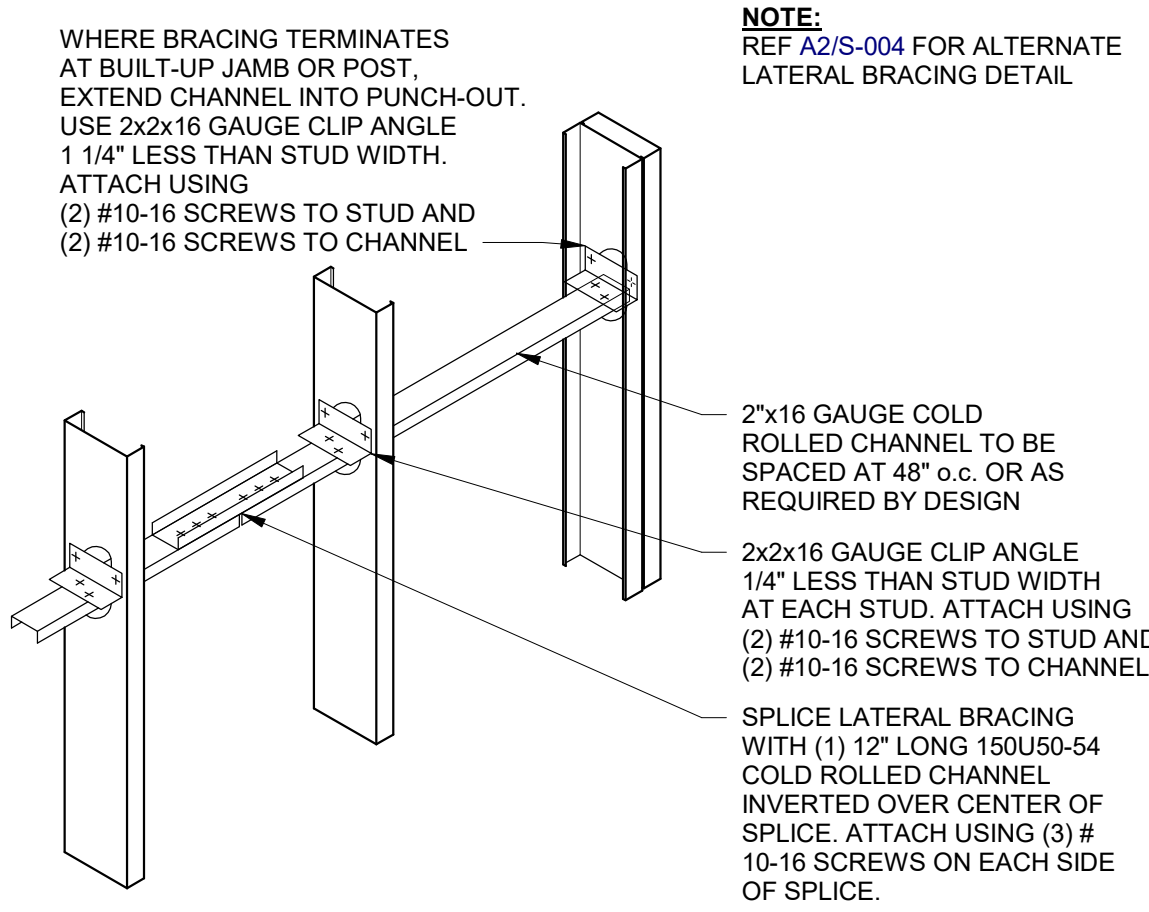


(C3) $3/4" = 1'-0"$

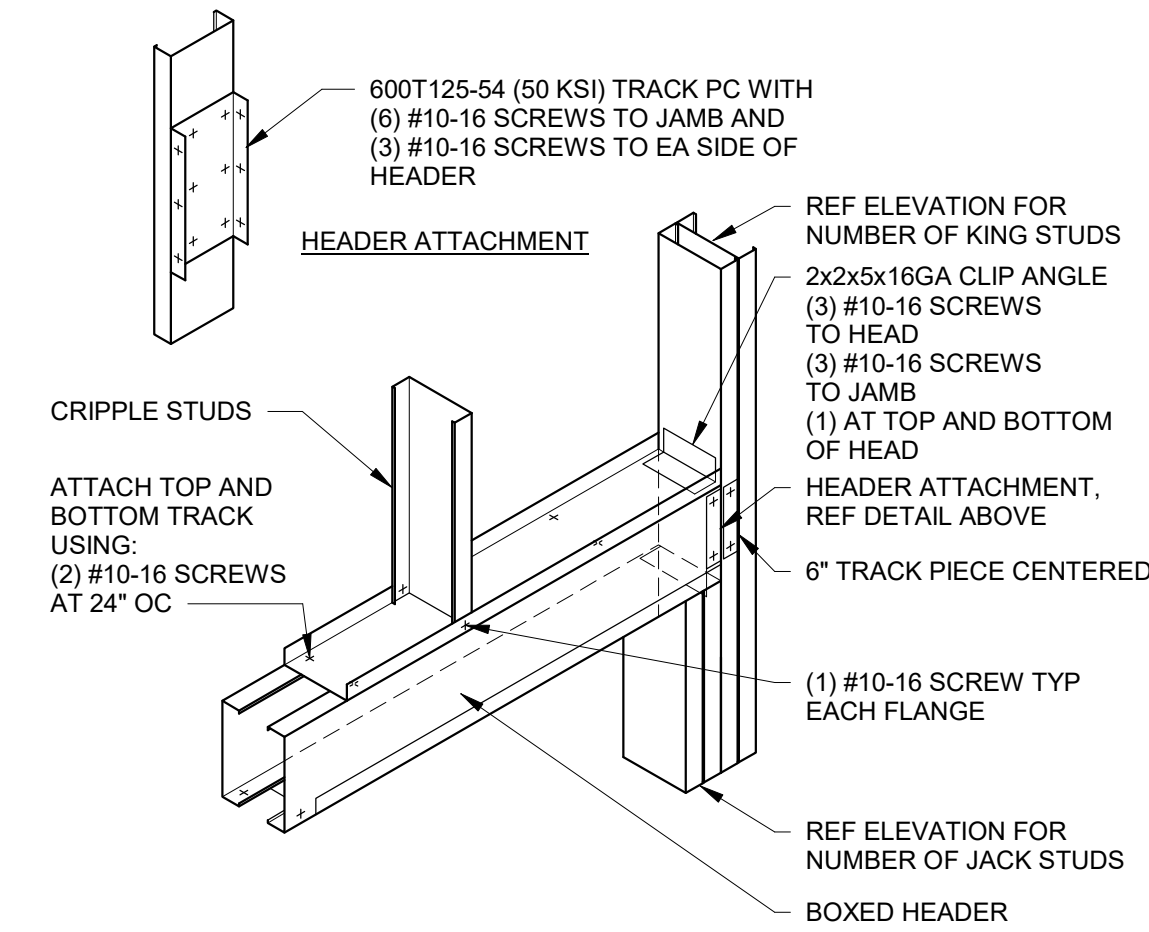


LIGHT GAUGE STEEL FRAMING

1. DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN COLD-FORMED STEEL FRAMING.
 2. STRUCTURAL PERFORMANCE: PROVIDE COLD-FORMED STEEL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
 A. DESIGN LOADS: AS INDICATED.
 B. DEFLECTION LIMITS: DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:
 a. EXTERIOR NON-LOAD-BEARING FRAMING: HORIZONTAL DEFLECTION OF 1/600 OF THE WALL HEIGHT FOR WALLS WITH MASONRY VENEER, AND 1/360 OF THE WALL HEIGHT FOR OTHER WALLS.
 C. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS LOCATED OUTSIDE THE INSULATED BUILDING ENVELOPE WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE OF 120 DEG F.
 D. DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE AS FOLLOWS:
 a. UPWARD AND DOWNWARD MOVEMENT OF 1 INCH.
 3. DESIGN EXTERIOR NON-LOAD-BEARING WALL FRAMING TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION OF SHEATHING MATERIALS.
 4. COLD-FORMED STEEL FRAMING DESIGN STANDARDS:
 A. WALL STUDS: AISI S211.
 B. HEADERS: AISI S212.
 AISI SPECIFICATIONS AND STANDARDS: UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED, COMPLY WITH AISI S100 AND AISI S200.
 6. FIRE-RESISTANCE RATINGS: COMPLY WITH ASTM E 119; TESTING BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.
 A. INDICATE DESIGN DESIGNATIONS FROM UL'S "FIRE RESISTANCE DIRECTORY" OR FROM THE LISTINGS OF ANOTHER QUALIFIED TESTING AGENCY.
 7. MATERIALS:
 A. COLD-FORMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNATED BY "DEPTH", "SHAPE", "WIDTH", AND "THICKNESS" AS FOLLOWS:
 a. DEPTH: 362 (3-5/8"), 600 (6"), 800 (8"), ETC.
 b. SHAPE: S (C-SHAPE), T (TRACK), U (CHANNEL)
 c. WIDTH: 125 (1-1/4"), 162 (1-5/8"), 200 (2"), ETC.
 d. THICKNESS: .43 (18 GA.), .54 (16 GA.), .68 (14 GA.), .97 (12 GA.)
 EXAMPLE: 600S162-54 = 6" C-SHAPE, 1 5/8" FLANGE, 16 GA.
 B. ALL 18 GA AND LIGHTER STUDS TO BE 33 KSI MATERIAL; ALL 16 GA AND HEAVIER STUDS TO BE 50 KSI MATERIAL.
 C. ALL TRACKS AND ACCESSORIES: FY = 33 KSI MINIMUM.
 SPECIFICATIONS:
 a. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY LATEST REVISIONS OF:
 1. AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
 2. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.
 9. SUBMITTALS:
 a. SUBMIT MANUFACTURER'S STANDARD PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED METAL FRAMING AND ACCESSORY REQUIRED.
 b. SUBMIT FULLY DIMENSIONED ERECTION PLANS AND CONNECTION DETAILS INDICATING ALL COMPONENT AND MEMBER LOCATIONS, ORIENTATION, AND LAYOUT. PLANS TO INCLUDE MEMBER SIZES, TYPES, GAGE DESIGNATIONS, QUANTITY AND SPACING. ALSO INCLUDE DETAILS OF CONNECTIONS NOTED SCREW TYPES, QUANTITIES, LOCATIONS, WELD SIZES, LENGTHS, AND LOCATIONS, AND ADDITIONAL STRAPPING, BRACING, OR ACCESSORIES REQUIRED FOR A PROPER AND COMPLETE INSTALLATION.
 10. CONNECTIONS:
 a. FIELD CONNECTIONS MAY BE EITHER WELDED OR SCREWED, EXCEPT AS SPECIFICALLY DETAILED OTHERWISE.
 b. WELD SIZE TO BE 1/8" WITH AWS TYPE 6013 OR 7014 ROD.
 c. EXCEPT AS NOTED OTHERWISE, MECHANICAL FASTENERS TO BE SELF TAPPING #10-16 SCREWS.
 11. FINISH:
 a. ALL MATERIAL TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A525 G-60.
 b. TOUCH-UP FIELD WELDS WITH ZINC RICH PAINT.
 12. MISCELLANEOUS:
 a. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW.
 b. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREW AT EACH SIDE OF TRACKS.
 c. PROVIDE HORIZONTAL BRIDGING AT 6'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED OTHERWISE.

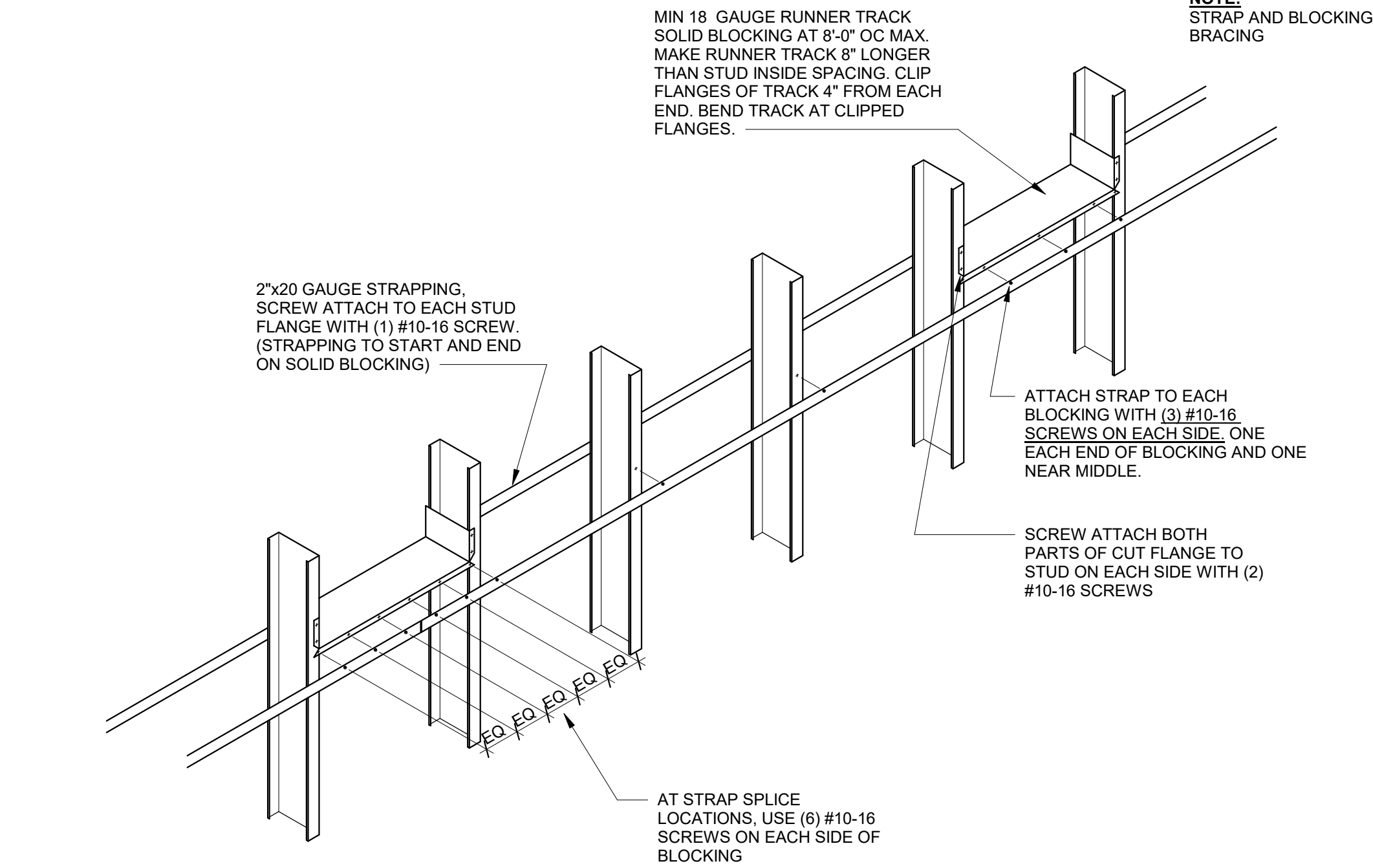


D2 LATERAL WALL BRACING



C2 BOXED HEADER CONNECTION

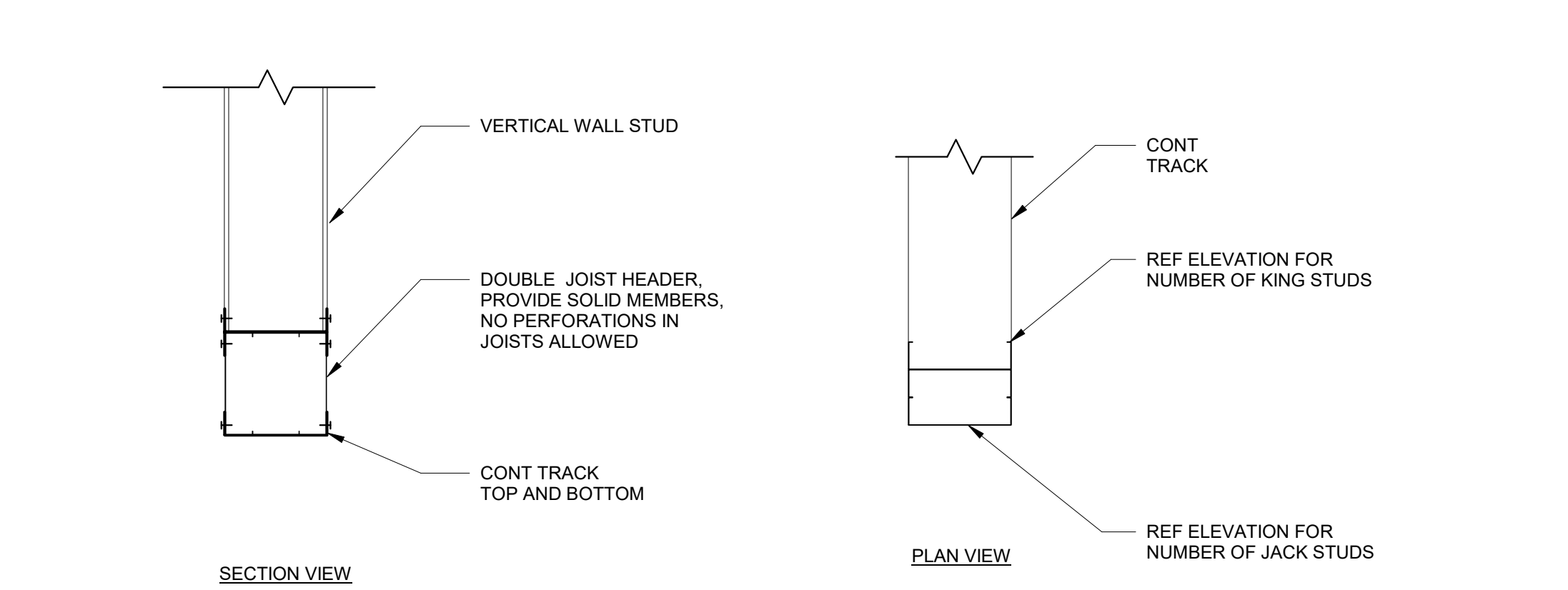
1. DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN COLD-FORMED STEEL FRAMING.
 2. STRUCTURAL PERFORMANCE: PROVIDE COLD-FORMED STEEL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
 A. DESIGN LOADS: AS INDICATED.
 B. DEFLECTION LIMITS: DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:
 a. EXTERIOR NON-LOAD-BEARING FRAMING: HORIZONTAL DEFLECTION OF 1/600 OF THE WALL HEIGHT FOR WALLS WITH MASONRY VENEER, AND 1/360 OF THE WALL HEIGHT FOR OTHER WALLS.
 C. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS LOCATED OUTSIDE THE INSULATED BUILDING ENVELOPE WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE OF 120 DEG F.
 D. DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE AS FOLLOWS:
 a. UPWARD AND DOWNWARD MOVEMENT OF 1 INCH.
 3. DESIGN EXTERIOR NON-LOAD-BEARING WALL FRAMING TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION OF SHEATHING MATERIALS.
 4. COLD-FORMED STEEL FRAMING DESIGN STANDARDS:
 A. WALL STUDS: AISI S211.
 B. HEADERS: AISI S212.
 AISI SPECIFICATIONS AND STANDARDS: UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED, COMPLY WITH AISI S100 AND AISI S200.
 6. FIRE-RESISTANCE RATINGS: COMPLY WITH ASTM E 119; TESTING BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.
 A. INDICATE DESIGN DESIGNATIONS FROM UL'S "FIRE RESISTANCE DIRECTORY" OR FROM THE LISTINGS OF ANOTHER QUALIFIED TESTING AGENCY.
 7. MATERIALS:
 A. COLD-FORMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNATED BY "DEPTH", "SHAPE", "WIDTH", AND "THICKNESS" AS FOLLOWS:
 a. DEPTH: 362 (3-5/8"), 600 (6"), 800 (8"), ETC.
 b. SHAPE: S (C-SHAPE), T (TRACK), U (CHANNEL)
 c. WIDTH: 125 (1-1/4"), 162 (1-5/8"), 200 (2"), ETC.
 d. THICKNESS: .43 (18 GA.), .54 (16 GA.), .68 (14 GA.), .97 (12 GA.)
 EXAMPLE: 600S162-54 = 6" C-SHAPE, 1 5/8" FLANGE, 16 GA.
 B. ALL 18 GA AND LIGHTER STUDS TO BE 33 KSI MATERIAL; ALL 16 GA AND HEAVIER STUDS TO BE 50 KSI MATERIAL.
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 12. MISCELLANEOUS:
 a. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW.
 b. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREW AT EACH SIDE OF TRACKS.
 c. PROVIDE HORIZONTAL BRIDGING AT 6'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED OTHERWISE.



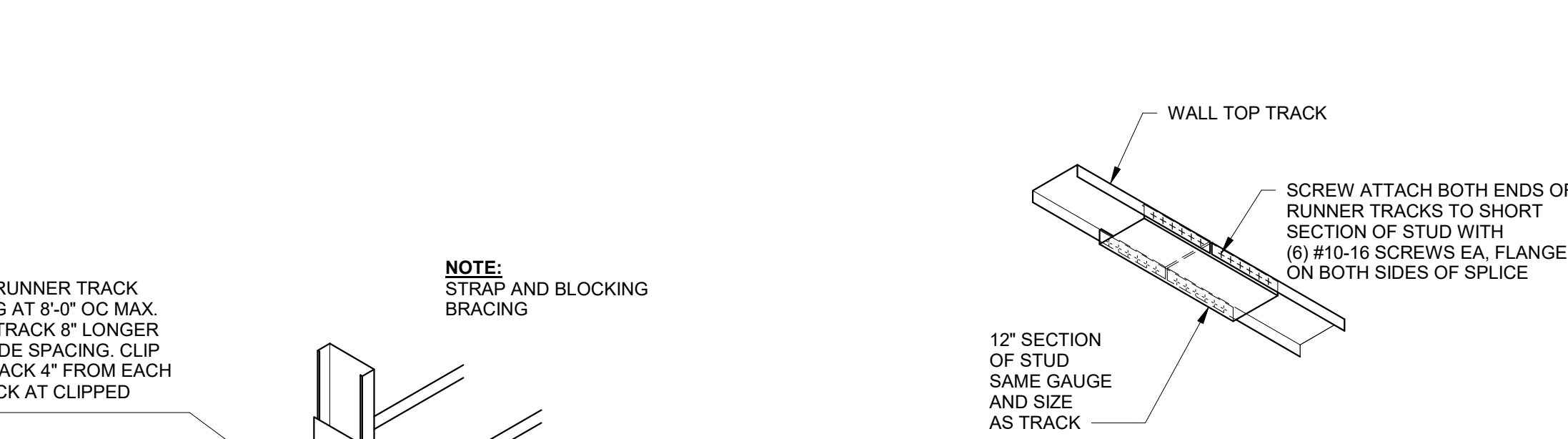
A2 ALTERNATE LATERAL BRACING

NOTE:
 REF A2/S-004 FOR ALTERNATE LATERAL BRACING DETAIL

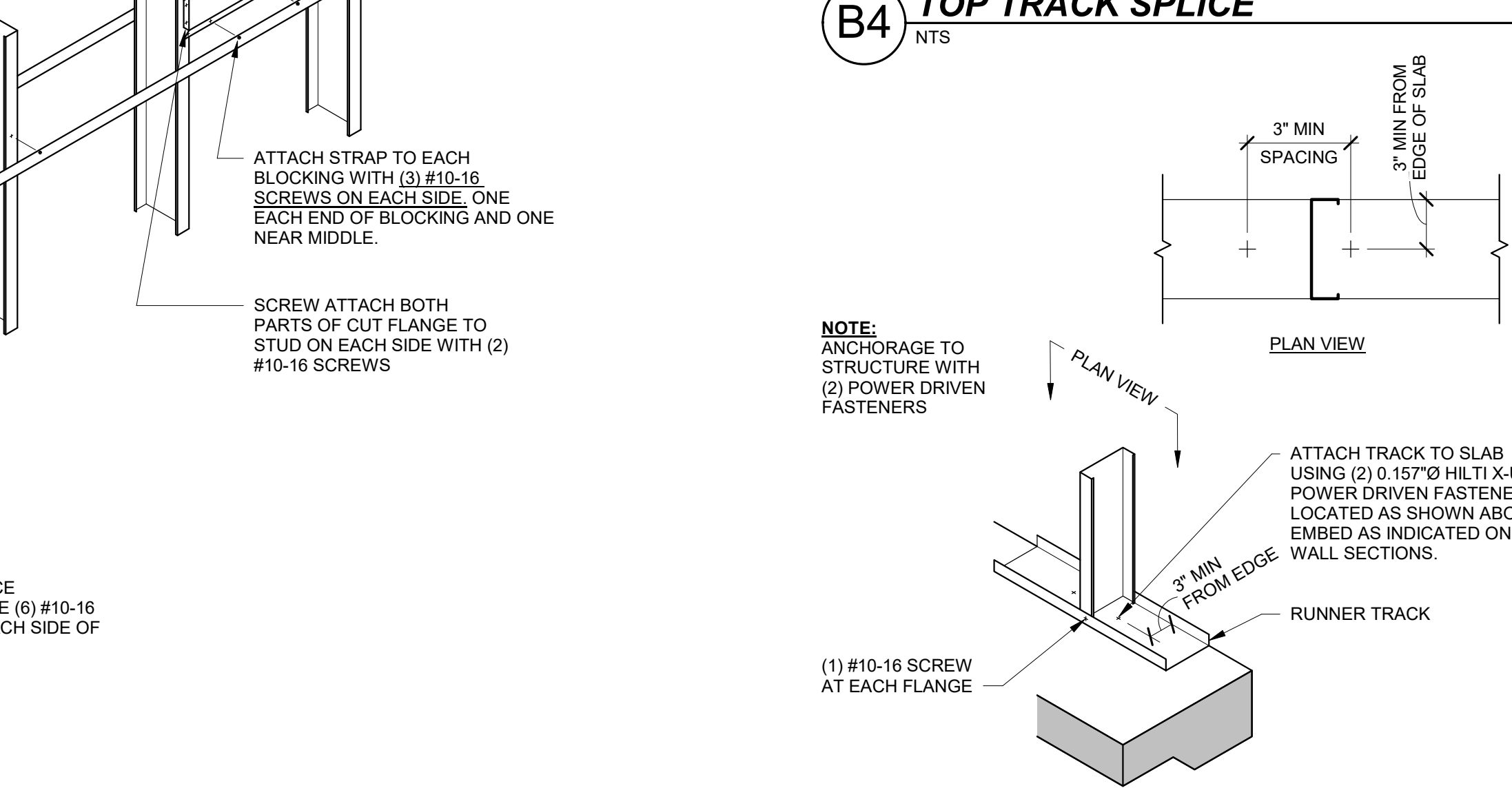
D3 CORNER FRAMING DETAIL



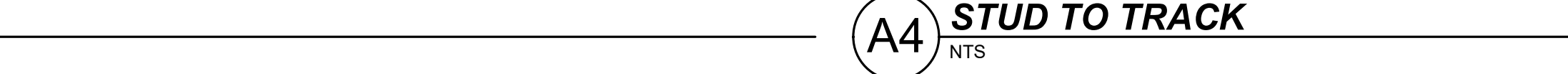
C5 SILL TRACK CONNECTION



B4 TOP TRACK SPLICE



A4 STUD TO TRACK



A5 EXTERIOR WALL TO SLAB CONNECTION

B5 JAMB ANCHORAGE

C2 BOXED HEADER CONNECTION

D2 LATERAL WALL BRACING

D3 CORNER FRAMING DETAIL

C5 SILL TRACK CONNECTION

B4 TOP TRACK SPLICE

A4 STUD TO TRACK

A5 EXTERIOR WALL TO SLAB CONNECTION

B5 JAMB ANCHORAGE

C2 BOXED HEADER CONNECTION

D2 LATERAL WALL BRACING

D3 CORNER FRAMING DETAIL

C5 SILL TRACK CONNECTION

B4 TOP TRACK SPLICE

A4 STUD TO TRACK

A5 EXTERIOR WALL TO SLAB CONNECTION

B5 JAMB ANCHORAGE

C2 BOXED HEADER CONNECTION

D2 LATERAL WALL BRACING

D3 CORNER FRAMING DETAIL

C5 SILL TRACK CONNECTION

B4 TOP TRACK SPLICE

A4 STUD TO TRACK

A5 EXTERIOR WALL TO SLAB CONNECTION

B5 JAMB ANCHORAGE

C2 BOXED HEADER CONNECTION

D2 LATERAL WALL BRACING

D3 CORNER FRAMING DETAIL

C5 SILL TRACK CONNECTION

B4 TOP TRACK SPLICE

A4 STUD TO TRACK

A5 EXTERIOR WALL TO SLAB CONNECTION

B5 JAMB ANCHORAGE

C2 BOXED HEADER CONNECTION

D2 LATERAL WALL BRACING

D3 CORNER FRAMING DETAIL

STATEMENT OF SPECIAL INSPECTIONS & STRUCTURAL OBSERVATIONS

1. THE OWNER SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK IN SECTION 1704.5 OF THE BUILDING CODE AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL. THE GENERAL CONTRACTOR MAY NOT EMPLOY THE AGENCIES OR SPECIAL INSPECTORS EXCEPT WHERE THE CONTRACTOR IS ALSO THE OWNER. THESE INSPECTIONS, AND TESTS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIAL THAT ARE IDENTIFIED IN SECTION 110 OF THE BUILDING CODE.
2. PRIOR TO CONSTRUCTION THE APPROVED AGENCIES SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTION AND TESTS DURING CONSTRUCTION.
3. GENERAL CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING TO INCLUDE OWNER, ARCHITECT, EOR AND SI.
4. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTIONS OR TESTING IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION OR TESTING PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION OR TESTS.
5. APPROVED AGENCIES SHALL KEEP RECORDS OF SPECIAL INSPECTIONS AND TESTS. THE APPROVED AGENCY SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED OR TESTED WAS, OR WAS NOT, COMPLETED IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE EOR PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS, SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF THE WORK BY THE OWNER TO THE BUILDING OFFICIAL.
6. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, THE FABRICATOR SHALL BE APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTIONS BY THE BUILDING OFFICIAL IN ACCORDANCE WITH SECTION 1704.2.5 OF THE BUILDING CODE.
7. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC FORCE-RESISTING SYSTEM, OR COMPONENT THEREOF, LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTS, SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO COMMENCEMENT OF WORK ACKNOWLEDGING AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
8. IN ADDITION TO THE SUBMITTAL OF REPORTS OF SPECIAL INSPECTIONS AND TESTS, REPORTS AND CERTIFICATES SHALL BE SUBMITTED BY THE OWNER TO THE BUILDING OFFICIAL FOR EACH ITEM LISTED IN 1704.5 OF THE BUILDING CODE.

NOTATION USED IN TABLES:

- COLUMN HEADERS:
C INDICATES CONTINUOUS INSPECTION IS REQUIRED.
P INDICATES PERIODIC INSPECTIONS ARE REQUIRED.
- BOX ENTRIES:
X IS PLACED IN THE APPROPRIATE COLUMN TO DENOTE EITHER "C" CONTINUOUS OR "P" PERIODIC INSPECTIONS.
--- DENOTES AN ACTIVITY THAT IS EITHER A ONE-TIME ACTIVITY OR ONE WHOSE FREQUENCY IS DEFINED IN SOME OTHER MANNER.

ADDITIONAL DETAIL REGARDING INSPECTIONS AND TESTS ARE PROVIDED IN THE PROJECT SPECIFICATIONS AND NOTES ON THE DRAWINGS.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION	C	P
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIRED BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	-	X
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

REQUIRED SPECIAL INSPECTIONS FOR WIND RESISTANCE

1. SPECIAL INSPECTIONS BELOW ARE IN ADDITION TO THE MATERIAL SPECIFIC SPECIAL INSPECTION LISTED IN PRIOR SCHEDULES.

VERIFICATION AND INSPECTION	C	P
1. STRUCTURAL WOOD: A. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE WINDFORCE-RESISTING SYSTEM, INCLUDING SHEARWALLS, DIAPHRAGMS, DRAG STRUTS/COLLECTORS, BRACES AND HOLD-DOWNS WHEREVER THE FASTENER SPACING AT THE PANEL EDGES IS 4" ON CENTER OR CLOSER.	-	X
2. COLD FORMED STEEL LIGHT-FRAME CONSTRUCTION: A. WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM. B. SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEARWALLS, BRACES, DIAPHRAGMS, DRAG STRUTS/COLLECTORS AND HOLD-DOWNS WHEREVER THE FASTENER SPACING AT THE PANEL EDGES IS 4" ON CENTER OR CLOSER FOR ONE-SIDED SHEARWALLS SHEATHED WITH WOOD STRUCTURAL PANEL.	-	-
3. WIND-RESISTING COMPONENTS. A. ROOF COVERING, ROOD DECK, AND ROOF FRAMING CONNECTIONS. B. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	-	-

REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

VERIFICATION AND INSPECTION	C	P
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS A. END CONNECTIONS – WELDING OR BOLTED SJJ SPECIFICATIONS LISTED IN IBC 2207.1	-	-
B. BRIDGING – HORIZONTAL OR DIAGONAL 1. STANDARD BRIDGING SJJ SPECIFICATIONS LISTED IN IBC 2207.1	-	X
2. BRIDGING THAT DIFFERS FROM THE SJJ SPECIFICATIONS LISTED IN SECTION IBC 2207.1	-	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	C	P
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT.	-	X
REFERENCED STANDARD: ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 IBC REFERENCE: 1908.4	-	-
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND C. INSPECT ALL OTHER WELDS.	-	-
REFERENCED STANDARD: AWS D1.4 ACI 318: 26.6.4	-	-
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X
REFERENCED STANDARD: ACI 318: 17.8.2	-	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (SEE THE ANCHOR'S RESEARCH REPORT (ESR) FOR SPECIFIC REQUIREMENTS) A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS.	-	-
REFERENCED STANDARD: ACI 318: 17.8.2.4	-	-
B. MECHANICAL AND ADHESIVE ANCHORS NOT DEFINED ABOVE	-	X
REFERENCED STANDARD: ACI 318: 17.8.2	-	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X
REFERENCED STANDARD: ACI 318: Ch. 19, 26.4.3, 26.4.4 IBC REFERENCE: 1904.1, 1904.2, 1908.2, 1908.3	-	-
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-
REFERENCED STANDARD: ASTM C 172, ASTM C 31, ACI 318: 26.5, 26.12 IBC REFERENCE: 1908.10	-	-
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-
REFERENCED STANDARD: ACI 318: 26.5 IBC REFERENCE: 1908.6, 1908.7, 1908.8	-	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X
REFERENCED STANDARD: ACI 318: 26.5.3-26.5.5 IBC REFERENCE: 1908.9	-	-
9. INSPECTION OF PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS.	-	-
REFERENCED STANDARD: ACI 318: 26.10	-	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X
REFERENCED STANDARD: ACI 318: 26.9	-	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X
REFERENCED STANDARD: ACI 318: 26.11.2	-	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X
REFERENCED STANDARD: ACI 318: 26.11.1-2(B)	-	-

REQUIRED SPECIAL INSPECTION OF STRUCTURAL STEEL

1. SPECIAL INSPECTIONS AND QUALITY ASSURANCE/CONTROL FOR STRUCTURAL STEEL, INCLUDING FABRICATION AND ERECTION, SHALL COMPLY WITH AISC 360-16 CHAPTER N ENTIRELY AND, IN SEISMIC SDC C OR HIGHER, IT SHALL ADDITIONALLY COMPLY WITH AISC 360-16 CHAPTER J ENTIRELY.
2. QUALITY CONTROL (QC) SHALL BE PROVIDED BY FABRICATOR AND ERECTOR. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY SPECIAL INSPECTOR (SI).
3. QA WORK MAY NOT BE WAIVED IN CASES WHERE QC WORK HAS OCCURRED. QA WORK SHALL BE DONE WHETHER OR NOT QC HAS BEEN COMPLETED UNLESS SPECIALLY APPROVED BY EOR AND BUILDING OFFICIAL.
4. QA INSPECTION IS PERMITTED TO BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE BUILDING OFFICIAL TO PERFORM THE WORK WITHOUT QA.
5. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP IS PERMITTED TO BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE BUILDING OFFICIAL. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.
6. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL AND ENGINEER OF RECORD STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
7. IN THESE TABLES, THE INSPECTION TASKS ARE AS FOLLOWS:
A. OBSERVE (O) = THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
B. PERFORM (P): THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER.
C. DOCUMENT (D): FOR SDC C AND HIGHER ONLY: THE INSPECTOR SHALL PREPARE REPORTS PER AISC 360-16 INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.
8. INSPECTION OF WELDING SHALL BE COMPLETED IN ACCORDANCE WITH AWS D1.1 AND D1.4.
9. INSPECTION OF BOLTING SHALL BE COMPLETED IN ACCORDANCE WITH THE RCSC SPECIFICATION ON HIGH STRENGTH BOLTING.

VERIFICATION AND INSPECTION		
INSPECTION TASK PRIOR TO WELDING	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O
WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM (MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS IF USED SHALL BE LOW-STRESS TYPE).	O	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	P/O	O
• JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)		
FIT-UP OF GJP GROOVE WELDS OF HSS T-, Y-, AND K-JOISTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)	P	O
• JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)		
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT-UP OF FILLET WELDS	P/O	O
• DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)		
CHECKING WELDING EQUIPMENT	O	-
INSPECTION TASK DURING WELDING	QC	QA
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	-
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, CH) • INTERMIX OF FILLER METALS AVOIDED*	O	O
USE OF QUALIFIED WELDERS*	O*	O*
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P
INSPECTION TASK AFTER WELDING	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATIONS OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P(D)	P(D)
ARC STRIKES	P	P
K-AREA (WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.) (THE VISUAL INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING COMPLETION OF WELDING.)	P(D)	P(D)
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED).*	P*(D)	P*(D)
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (AFTER ROLLED HEAVY SHAPES (SEE AISC 360 A3.1C), AND BUILT-UP HEAVY SHAPES (SEE AISC SECTION A3.10) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.)	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED). (AND FILLET WELDS ADDED IF REQUIRED).*	P(D)	P(D)
REPAIR ACTIVITIES	P	P(D)
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P
NO PROHIBITED WELDS HAVE BEEN ADDED WITH APPROVAL OF THE EOR	O	O
NONDESTRUCTIVE TESTING (NDT) – ALL FULL PENETRATION WELDS SHALL BE TESTED UTILIZING NDT AND DOCUMENTED AS REQUIRED BY AISC 360 CHAPTER N AND AWS D1.1.	P	P

VERIFICATION AND INSPECTION		
INSPECTION TASK PRIOR TO BOLTING	QC	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENT FOR FASTENER ASSEMBLIES AND METHODS USED	P(D)	O(D)
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O
INSPECTION DURING BOLTING	QC	QA
FASTENER ASSEMBLIES PLACED IN ALL HOLES, AND WASHERS ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TO TOWARDS THE FREE EDGES	O	O
INSPECTION AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P(D)	P(D)

REQUIRED TESTING AND SPECIAL INSPECTIONS SCHEDULED BY OTHERS

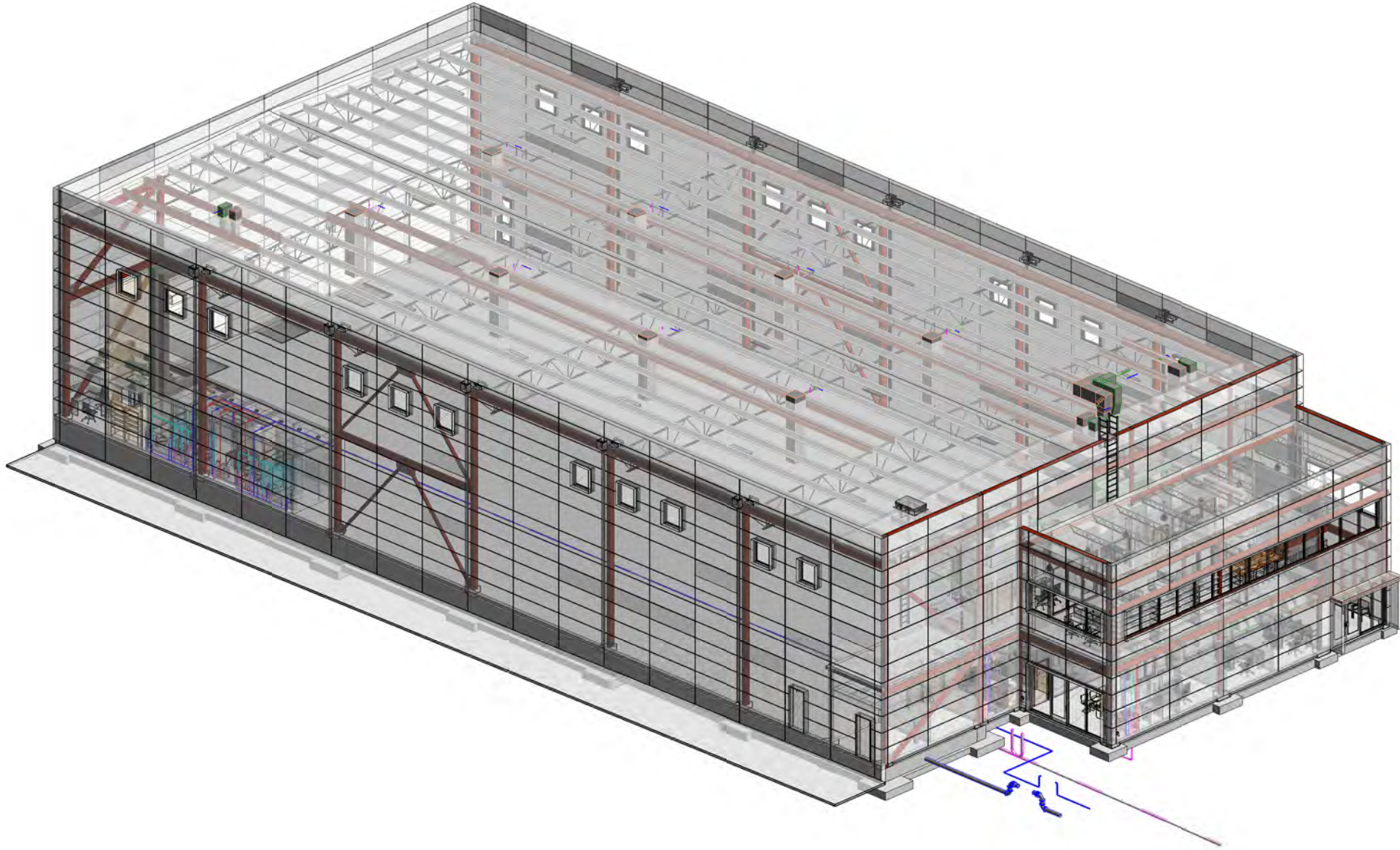
1. REFER TO THE ADDITIONAL SCHEDULES BY OTHERS FOR SPECIAL INSPECTION REQUIREMENT FOR THE FOLLOWING ITEMS AS APPLICABLE:
A. SPRAYED FIRE-RESISTANT MATERIALS.
B. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS.
C. EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS).
D. FIRE-RESISTANT PENETRATIONS AND JOINTS.
E. TESTING FOR SMOKE CONTROL.
2. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR MUST ENSURE ALL REQUIRED SPECIAL INSPECTION SCHEDULES FOR APPLICABLE WORK HAVE BEEN PROVIDED BY RELEVANT CONSULTANTS AND IDENTIFIED FOR INSTALLERS AND THE SPECIAL INSPECTOR(S).

SUBMITTALS AND CONSTRUCTION DOCUMENTATION

1. THE FOLLOWING ITEMS SHALL BE DESIGNED AND MANUFACTURED BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND/OR CONSTRUCTION:
A. CONCRETE MIX DESIGNS
B. GROUND IMPROVEMENT DESIGN AND LAYOUTS
C. CONCRETE ACCESSORIES (CHAIRS, CURING COMPOUNDS, ADD MIXTURES ETC.)
D. CONSTRUCTION AND CONTRACTION JOISTS LAYOUTS IF APPLICABLE
E. REINFORCING STEEL
F. STRUCTURAL STEEL (INCLUDING CONNECTIONS) AND MISCELLANEOUS STEEL
G. EMBEDDED ITEMS
H. STAIRS, GUARDRAILS, HANDRAILS AND ASSOCIATED CONNECTIONS
I. WOOD TRUSSES AND ENGINEERED LUMBER
J. CANOPIES, AWNINGS AND CARPORTS
K. FRAMING HARDWARE
L. ANY ITEMS NOT SPECIFICALLY DESIGNED BY THE EOR THAT REQUIRE A PROFESSIONAL ENGINEER TO REVIEW FOR LOADING REQUIREMENTS.
2. THOSE ITEMS NOT DESIGNED BY THE EOR SHALL BE DESIGNED BY A THIRD-PARTY PROFESSIONAL ENGINEER EMPLOYED BY CONTRACTOR LICENSED IN THE STATE OF NEW MEXICO. EOR IS NOT RESPONSIBLE FOR THE DESIGN PREPARED BY THIRD PARTY ENGINEERS ON DEFERRED ITEMS. CONTRACTOR AND THIRD-PARTY ENGINEER SHALL RETAIN ALL RESPONSIBILITY FOR THE DESIGN OF THE PRODUCTS AND THE CONNECTIONS OF THE PRODUCTS TO THE BUILDING STRUCTURE.
3. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED BY GENERAL CONTRACTOR AND STAMPED APPROVED OR EXCEPTIONS NOTED PRIOR TO BEING SENT TO ENGINEER. THOSE ITEMS THAT ARE NOT REVIEWED OR NOT REVIEWED ADEQUATELY BY GENERAL CONTRACTOR WILL BE RETURNED TO GENERAL CONTRACTOR BY THE ENGINEER WITHOUT BEING REVIEWED AND THIS SHALL NOT BE CAUSE FOR DELAY.
4. CONTRACTOR SHALL PREPARE SUBMITTALS PER ARCHITECTS' PROJECT MANUAL.
5. THE FAILURE BY THE CONTRACTORS TO SUBMIT A SHOP DRAWING OR SUBMITTAL SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO FURNISH AND INSTALL THE WORK.
6. ENGINEER SHALL BE PROVIDED AT LEAST 10 FULL WORKING DAYS (NOT INCLUDING DELIVERY TIME) TO REVIEW SHOP DRAWINGS AND 2 FULL WORKING DAYS TO REVIEW RFIS. RFIS OR SUBSTITUTIONS THAT REQUIRED REDESIGN OR ANY OTHER CHANGES TO THE DRAWINGS MAY EXCEED TYPICAL REVIEW TIMES.
7. SHOP DRAWINGS AND SUBMITTALS WILL ONLY BE REVIEWED FOR THE LIMITED PURPOSE OF CHECKING FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT SHOWN IN THE DRAWINGS.
8. THE ENGINEER'S REVIEW IS LIMITED TO REVIEWING THAT THE APPLICABLE LOADS USED IN THE DESIGN PERFORMED BY THE THIRD-PARTY ENGINEER WERE GENERALLY IN CONFORMANCE WITH THE REQUIREMENTS LISTED ON DRAWINGS.
9. NO WORK ON ANY STRUCTURAL ITEMS INDICATED ON ENGINEER'S DRAWINGS MAY PROCEED UNTIL ALL SUBMITTALS RELATED TO THAT ITEM HAVE BEEN SUBMITTED AND REVIEWED BY ENGINEER WITH NO EXCEPTIONS TAKEN.
10. ANY CHANGES TO ENGINEER'S DESIGN THAT ARE REQUIRED TO ACCOMMODATE ANY ISSUE BY THIRD PARTY ENGINEER SHALL BE CLEARLY MARKED AND LOCATED AS A NOTIFICATION TO ENGINEER ON THE SUBMITTAL.
11. REVIEW OF SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN APPROVAL OF ANY MEANS AND METHODS.
12. THE USE OF REPRODUCTIONS OF HARD COPIES OR USE OF ENGINEERS ELECTRONIC COPIES IN LIEU OF THE INDEPENDENT PREPARATION OF SHOP DRAWINGS OR SUBMITTALS SIGNIFIES CONTRACTORS ACCEPTANCE OF ALL INFORMATION SHOWN IN HARD COPIES OR ELECTRONIC FILES AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSES REAL OR IMPLIED ARISING DUE TO ERRORS OR INCONSISTENCIES THAT ARE IN THE HARD COPIES OR ELECTRONIC FILES. USE OF SUCH FILES IS SOLELY AT THE CONTRACTOR'S RISK.

NOTES:

1. ISOMETRIC VIEWS ARE FOR REFERENCE ONLY AND THEY ARE NOT TO BE TAKEN AS A 100% ACCURATE REPRESENTATION OF CONTRACT DOCUMENTS.



A4

THREE-DIMENSIONAL STRUCTURE VIEW

REQUIRED STRUCTURAL OBSERVATIONS

1. STRUCTURAL OBSERVATIONS BY A REGISTERED DESIGN PROFESSIONAL ARE REQUIRED FOR THIS PROJECT. THE STRUCTURAL OBSERVATIONS DO NOT WAIVE THE REQUIREMENTS FOR INSPECTIONS BY THE BUILDING OFFICIAL OR SPECIAL INSPECTOR, NOR DO THEY SERVE THE SAME PURPOSE. THE EOR OR ANOTHER QUALIFIED ENGINEER SHALL BE HIRED BY THE OWNER TO OBSERVE THE FOLLOWING:
- STRUCTURAL OBSERVATION
A. FOUNDATION PRE-POUR
B. FRAMING - CONTACT EOR
C. SHEARWALL AND UPLIFT HARDWARE
D. SHEARWALL SHEATHING
- FREQUENCY
CONTACT EOR
CONTACT EOR
CONTACT EOR
CONTACT EOR.
2. THE BURDEN OF SCHEDULING THE ABOVE OBSERVATIONS IN A TIMELY MANNER, AS WELL AS ADDRESSING AND DOCUMENTING CORRECTION OF ALL DEFICIENCIES NOTED IN OBSERVATION REPORTS, RESTS SOLELY ON THE CONTRACTOR. COMPLIANCE LETTERS FROM THE EOR FOR THE AHJ, CONTRACTOR, OR OWNER CANNOT BE PROVIDED AT THE END OF CONSTRUCTION WITHOUT STRUCTURAL OBSERVATION OCCURRING TO THE SATISFACTION OF THE EOR IN ADDITION TO THE REQUIRED BUILDING OFFICIAL INSPECTIONS AND SPECIAL INSPECTIONS.

ABBREVIATIONS

1. THIS A LIST OF THE STANDARD ABBREVIATIONS USED THROUGHOUT SET OF PLANS. ABBREVIATIONS USED IN THE PLANS SET THAT ARE NOT DEFINED HERE MUST BE CONFIRMED WITH THE ENGINEER DIRECTLY. SEE TRUSS LOADING SCHEDULE FOR TRUSS ABBREVIATIONS NOT SHOWN.

#	NUMBER OR POUNDS	LSV	LONG SLOT VERTICAL
ACP	AUGER CAST PILE	Ld	DEVELOPMENT LENGTH
AHU	AIR HANDLER UNIT	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT/ARCHITECTURAL PLANS	LLV	LONG LEG VERTICAL
DBL	DOUBLE	LVL	LONGITUDINAL
BFG	BELOW FINISHED FLOOR		LEVEL OR LAMINATED
BLDG	BUILDING		VENEER LUMBER
BTM	BOTTOM	MANUF	MANUFACTURER
CANT	CANTILEVERED	MAX	MAXIMUM
CGS	CENTER GRAVITY OF STRAND	MEP	MECHANICAL, ELECTRICAL, & PLUMBING ENGINEER/PLANS
CIP	CAST-IN-PLACE	MF	MOMENT FRAME
CJ	CONTROL JOINT	MFG(R)	MANUFACTURER
CL	CENTERLINE	MIN	MINIMUM
CLR	CLEAR	NLB	NON-LOAD BEARING
CMU	CONCRETE MASONRY UNIT	NLS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER
CONC	CONCRETE	OCHW	ON CENTER EACH WAY
CRB	CONVENTIONALLY REINFORCED BEAM	OSB	ORIENTED STRAND BOARD
CSJ	CONSTRUCTION JOINT	PAF	POWDER ACTUATED FASTENER
CT	CORRIDOR TRUSS	PL	PLATE OR POINT LOAD
db	PENNY NAIL SIZE	PLF	POUNDS PER LINEAL FOOT
DBA	BAR DIAMETERS	PT	POST TENSIONING/ POST-TENSIONED
DBL	DOUBLE		POUNDS PER SQUARE FOOT
DFL	DOUGLAS FIR LARCH (G=0.50)	PSF	POUNDS PER SQUARE INCH
DH	DROP HEAD	PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	PSL	PARALLEL STRAND LUMBER
DL	DEAD LOAD	RD	ROOF DRAIN
DRG	DRAG TRUSS	RE/REF	REFERENCE
EA	EACH	REINF	REINFORCEMENT
EJ	EACH FACE	RTU	ROOF TOP UNIT
EF	EXPANSION JOINT	SC	STEEL COLUMN
EL	EARTHQUAKE LOAD	SCHED	SCHEDULE
EOR	ENGINEER OF RECORD	SIM	SIMILAR
EOS	EDGE OF SLAB	SL	SLAB-ON-GRADE
EMB	EMBED PLATE	SOG	SPACE
EQ	EQUAL OR EQUALLY	SPA	STAGGERED
EW	EACH WAY	STD	STANDARDS
EXT	EXTERIOR	SWF	SHEARWALL
FF	FINISHED FLOOR ELEVATION	SYP	SOUTHERN YELLOW PINE (G=0.55)
FF EL	28-DAY CONCRETE STRENGTH	T&B	TOP AND BOTTOM
Fc	28-DAY MASONRY STRENGTH	T&G	TONGUE & GROOVE
Fd	FLOOR DRAIN	TOC	TOP OF CONCRETE
FG	FINISHED GRADE	TOF	TOP OF FOOTING
FRT(W)	FIRE RETARDANT TREATED (WOOD)	TOJ	TOP OF JOIST
FT	FEET OR FLOOR TRUSS	TOP	TOP OF PIER/PILE/PLINTH OR TOP OF PLATE
FTG	FOOTING	TOS	TOP OF STEEL
Fy	YIELD STRENGTH	TOW	TOP OF WALL
GA	GAUGE	TRANS	TRANSVERSE
GB	GRADE BEAM	TYP	TYPICAL
GT	GIRDER TRUSS	UCA	UNDER COLUMN ABOVE
H	HOLDOWN	UNO	UNLESS NOTED OTHERWISE
HF	HEM FIR (G=0.43)	UPA	UNDER POST ABOVE
HORIZ	HORIZONTAL	UWA	UNDER WALL ABOVE
HS	HEADED STUD	VERT	VERTICAL
INT	INTERIOR	w/	WITH
K	KIPS	w/o	WITHOUT
KB	KNEE BRACE	WL	WIND LOAD
KLF	KIPS PER LINEAL FOOT	WP	WORKING POINT
KSI	KIPS PER SQUARE INCH		
KSF	KIPS PER SQUARE FOOT		
LBS	POUNDS		
LSH	LONG SLOT HORIZONTAL		

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CME CONSULTING ENGINEERS

2025 Miguel A. Benavente, P.E. is duly Licensed Professional Engineer in the State of New Mexico, License No. 27523. The undersigned hereby certifies that he/she is duly Licensed Professional Engineer in the State of New Mexico, License No. 27523. The undersigned hereby certifies that he/she is duly Licensed Professional Engineer in the State of New Mexico, License No. 27523. The undersigned hereby certifies that he/she is duly Licensed Professional Engineer in the State of New Mexico, License No. 27523.

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Engineer's Seal:

Date: 07/12/2024

Revised: --

Project No. STR0507.24

Drawn By: Author

Checked By: Checker

File Name:

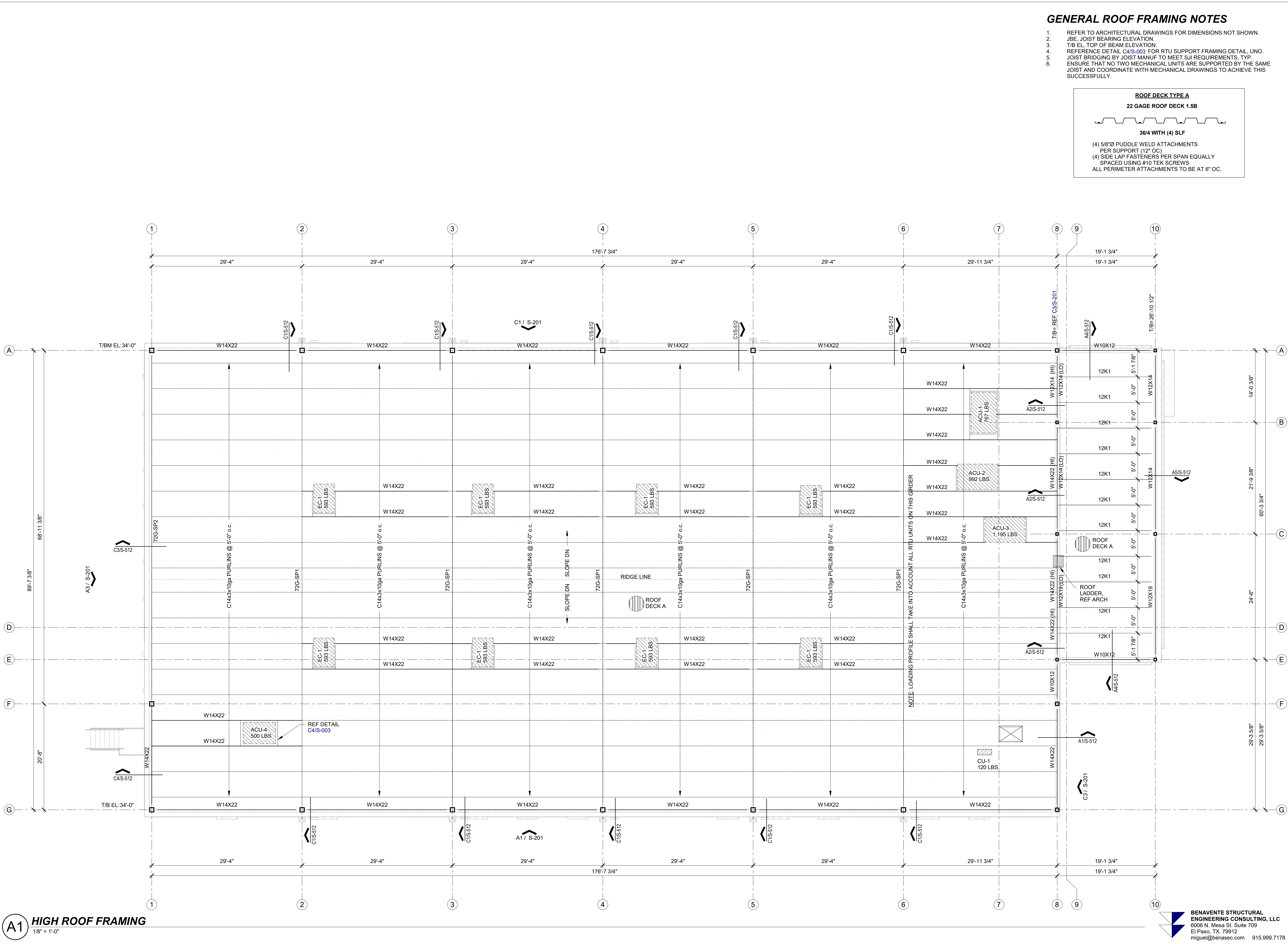
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Sheet No.

S-005

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CME
CONSTRUCTION MANAGEMENT ENGINEERS

140 RAY WARD PL SANTA TERESA, NM 88008

Number	Date	Description

Engineer's Seal:

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NEW MEXICO
27523
PROFESSIONAL ENGINEER
7/12/2024

Date: 07/12/2024

Revised: -

Project No. STR0507.24

Drawn By: Author

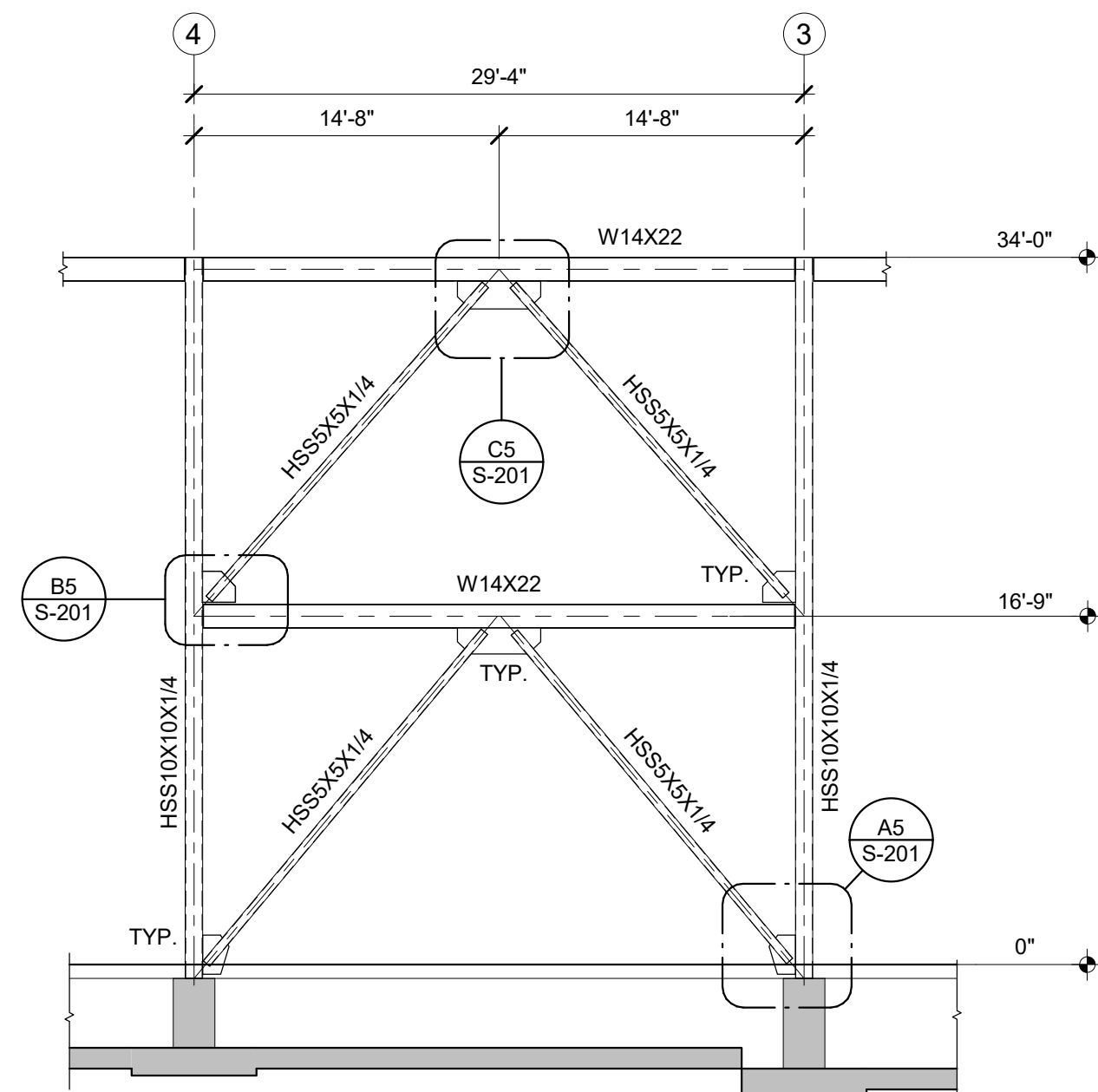
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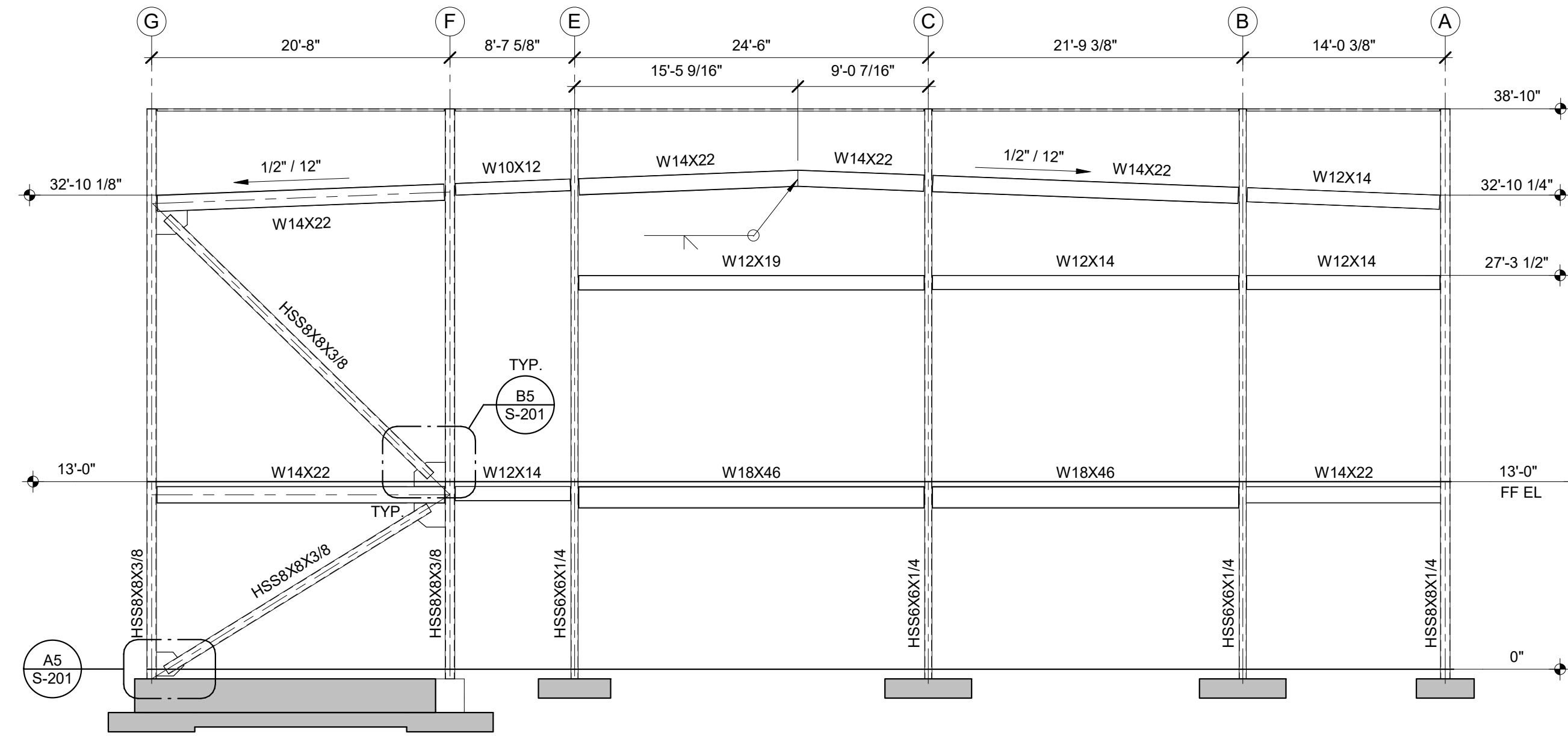
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HIGH FRAMING PLANS

Sheet No.

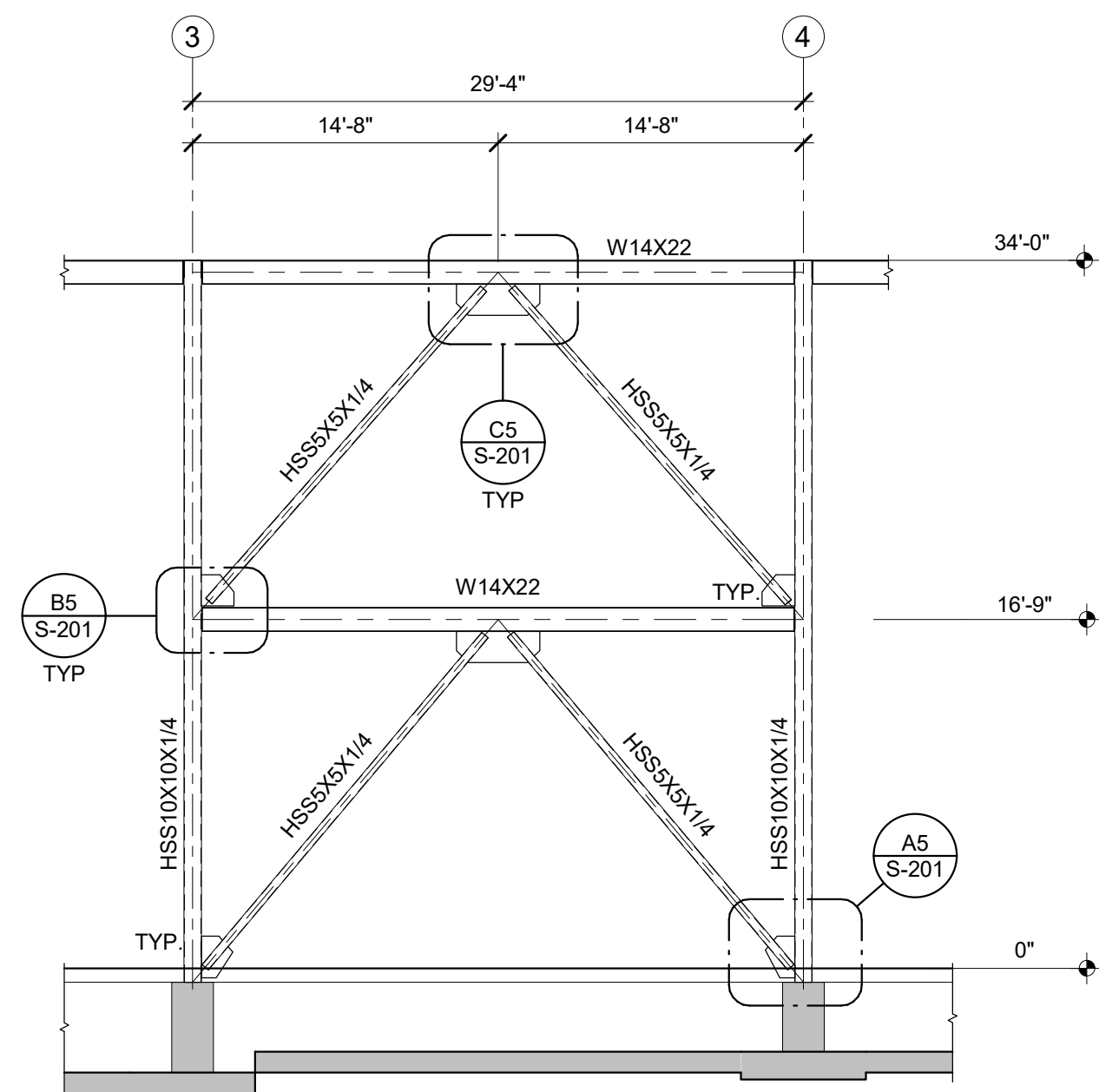
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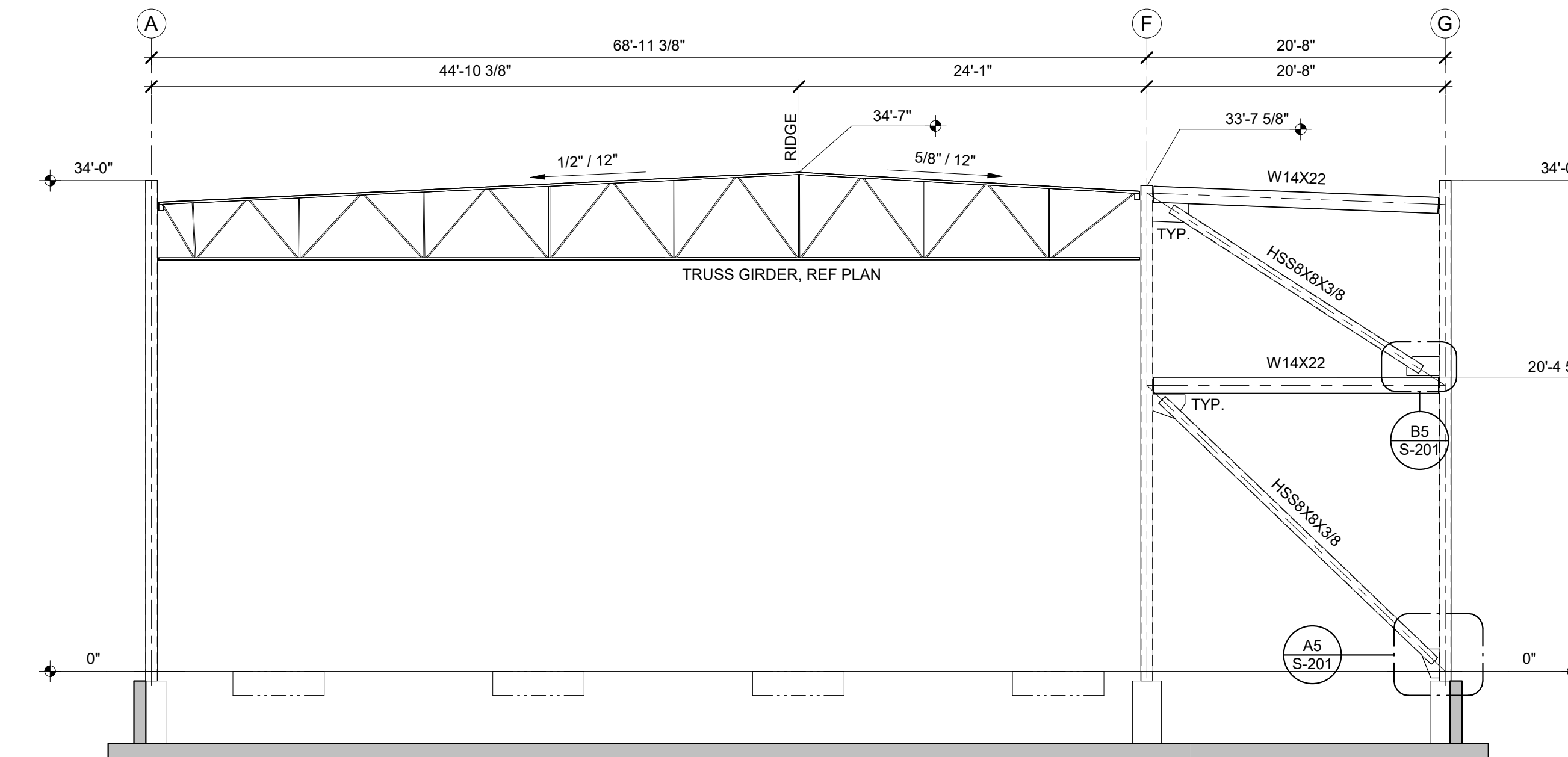
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1/8" = 1'-0"



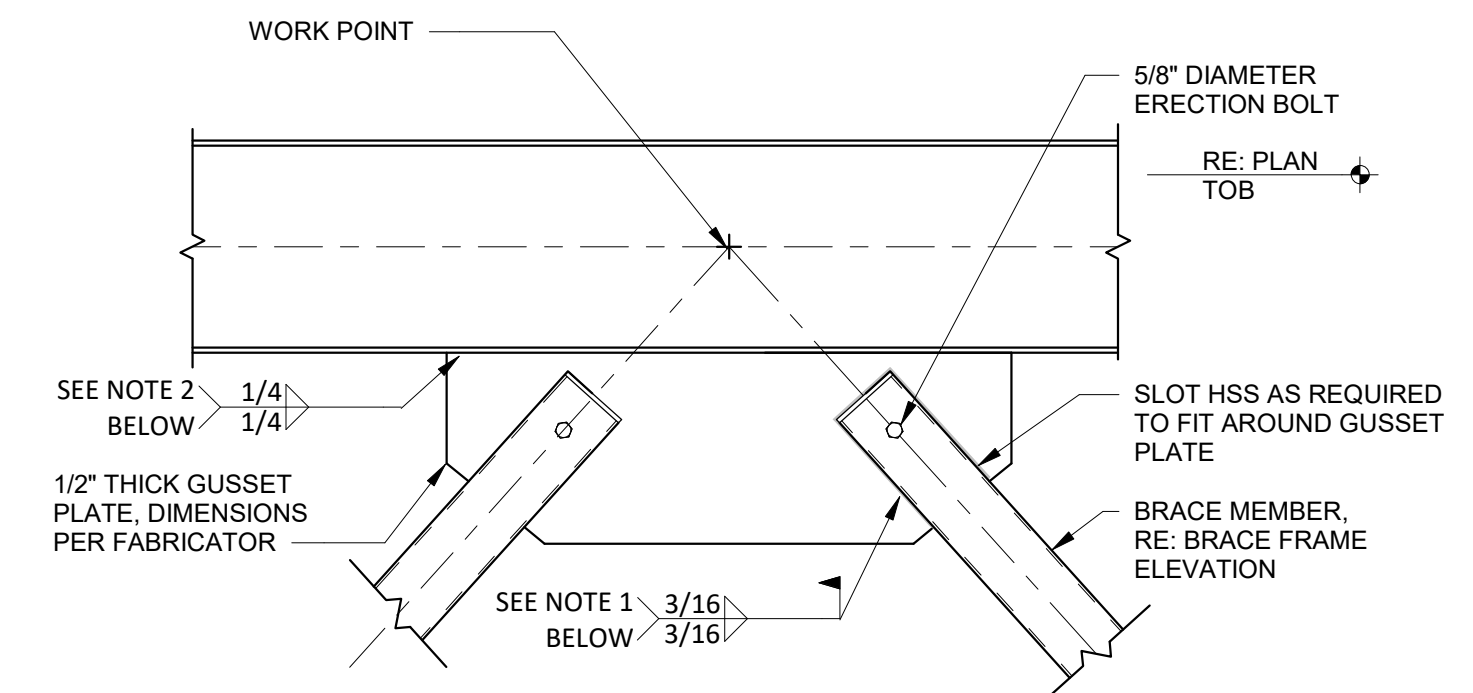
C3 **FRAME ELEVATION - GRID 8**
1/8" = 1'-0"



A1 **FRAME ELEVATION - GRID G**
1/8" = 1'-0"



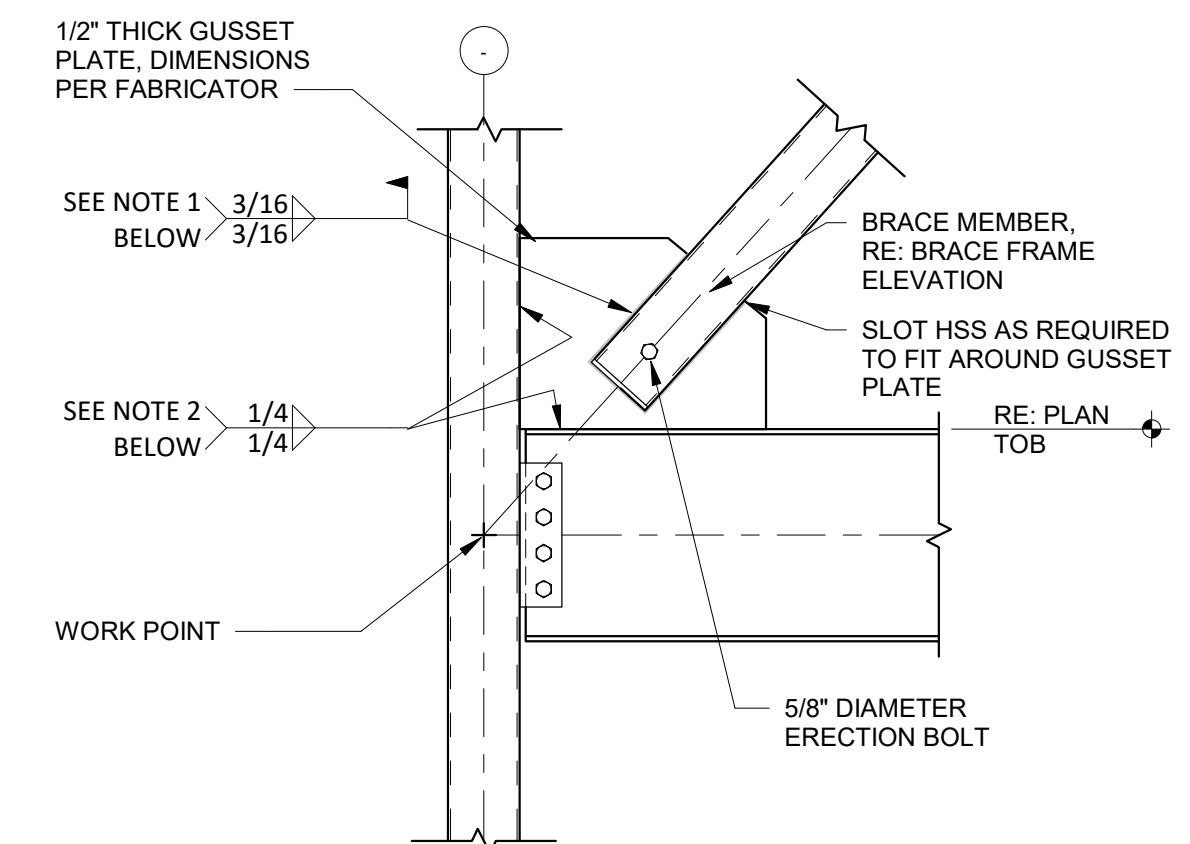
A3 **FRAME ELEVATION - GRID 1**
1/8" = 1'-0"



NOTE 1: WELD EACH SIDE OF HSS ON EACH SIDE OF GUSSET PLATE. TOTAL WELD LENGTH EACH END OF HSS BRACE TO BE NO LESS THAN 32" (8" FOR EACH OF (4) WELDS)

NOTE 2: WELD TO BEAM TO BE SHOP WELD

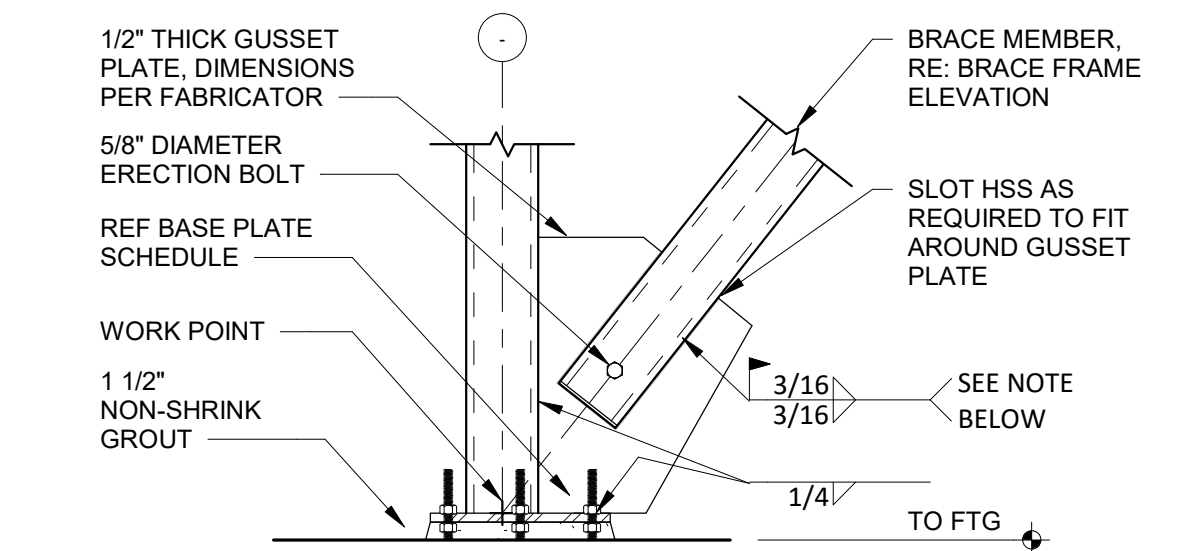
C5 CONNECTION DETAIL
3/4" = 1'-0"



NOTE 1: WELD EACH SIDE OF HSS ON EACH SIDE OF GUSSET PLATE. TOTAL WELD LENGTH EACH END OF HSS BRACE TO BE NO LESS THAN 32" (8" FOR EACH OF (4) WELDS)

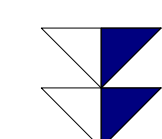
NOTE 2: WELD TO EITHER BEAM OR COLUMN TO BE SHOP WELD

B5 CONNECTION DETAIL
3/4" = 1'-0"

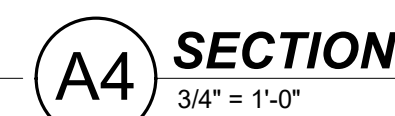
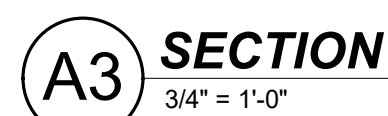
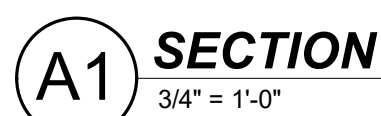
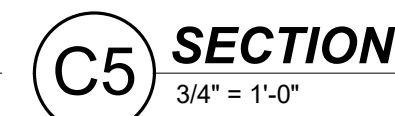
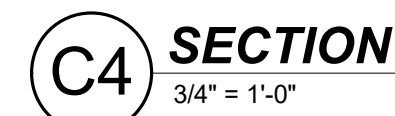
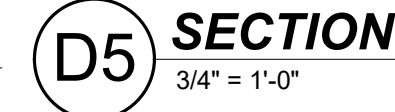
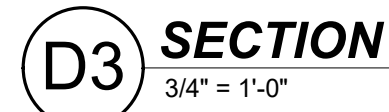


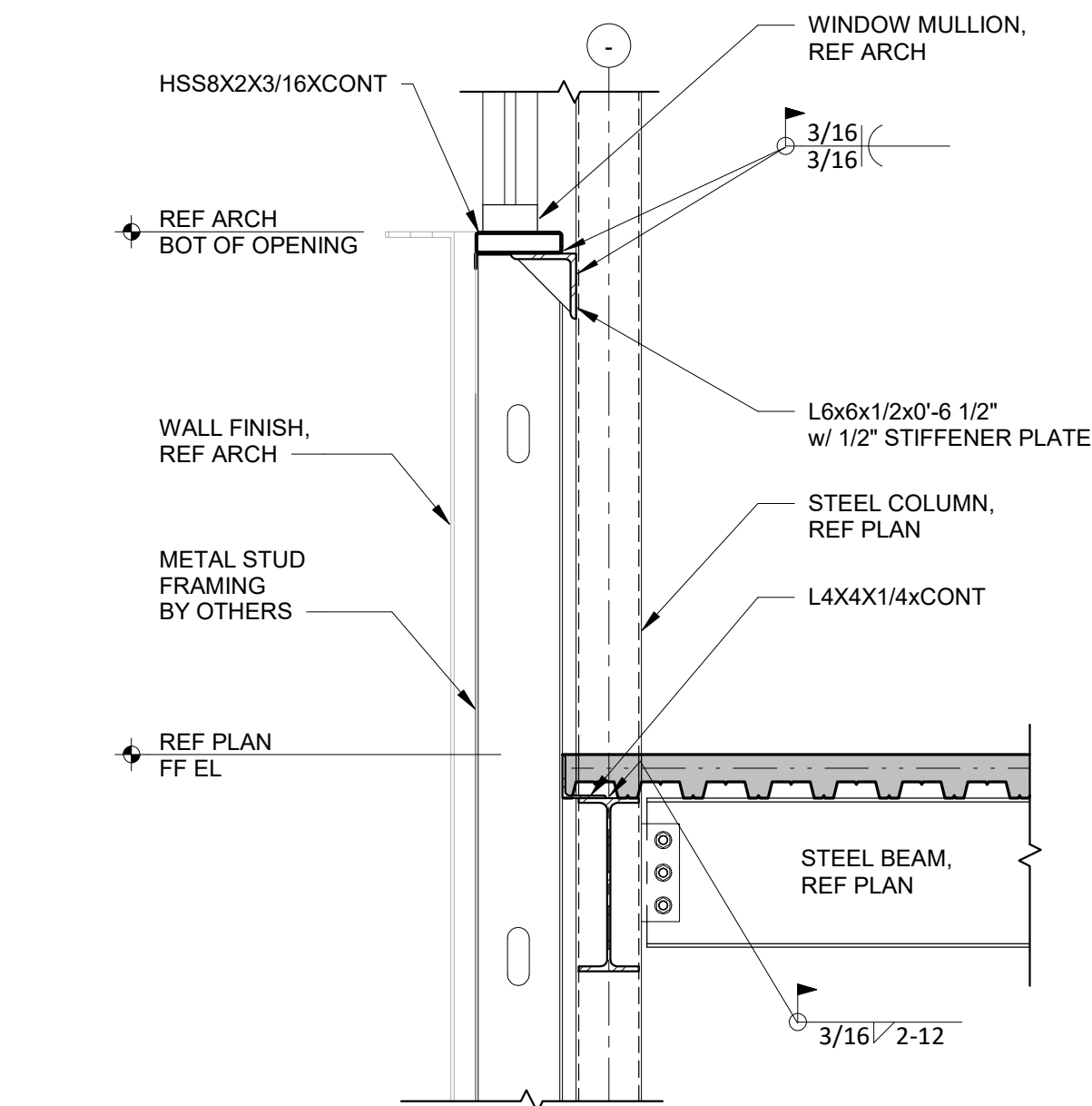
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A5 CONNECTION DETAIL
3/4" = 1'-0"

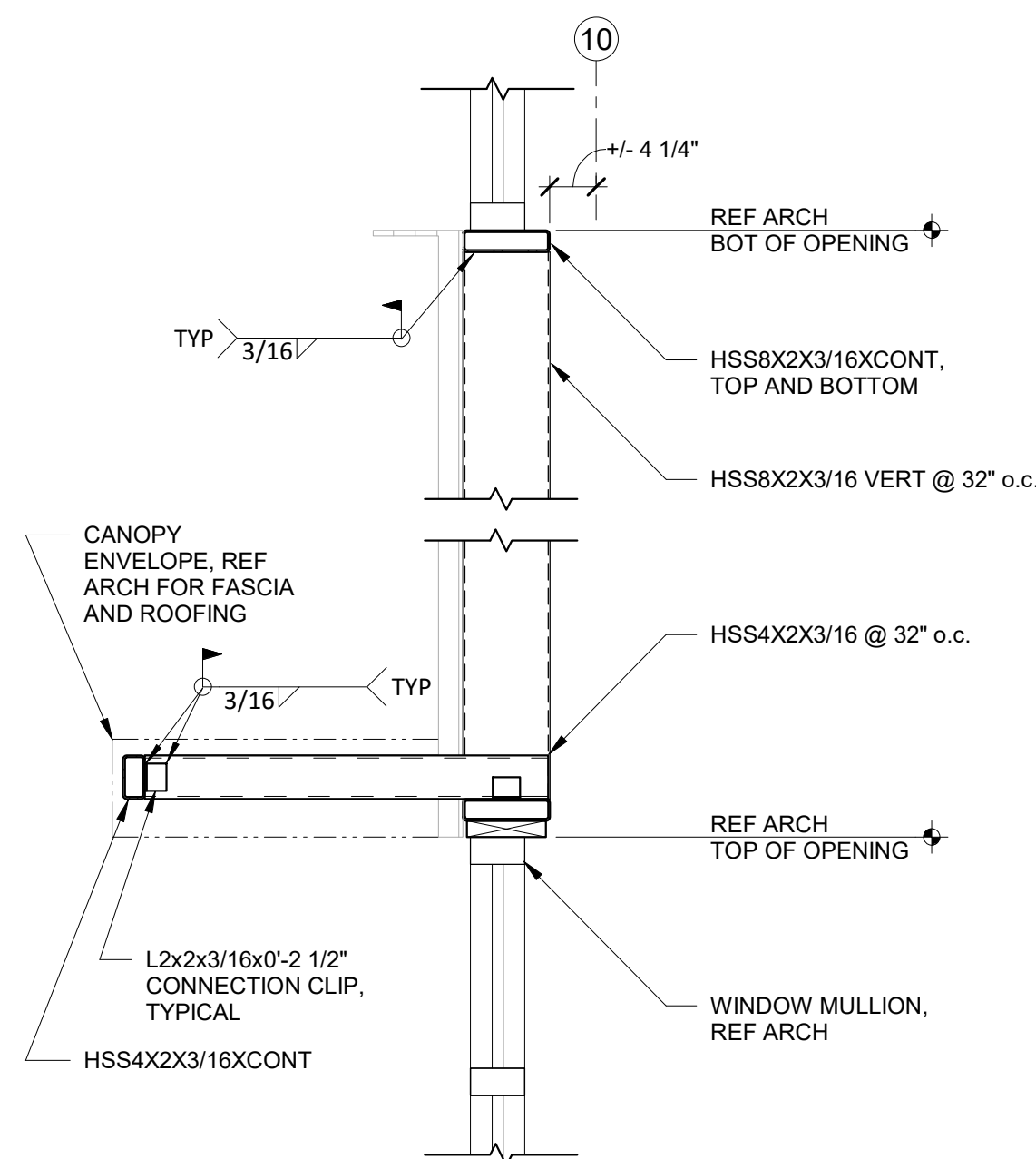


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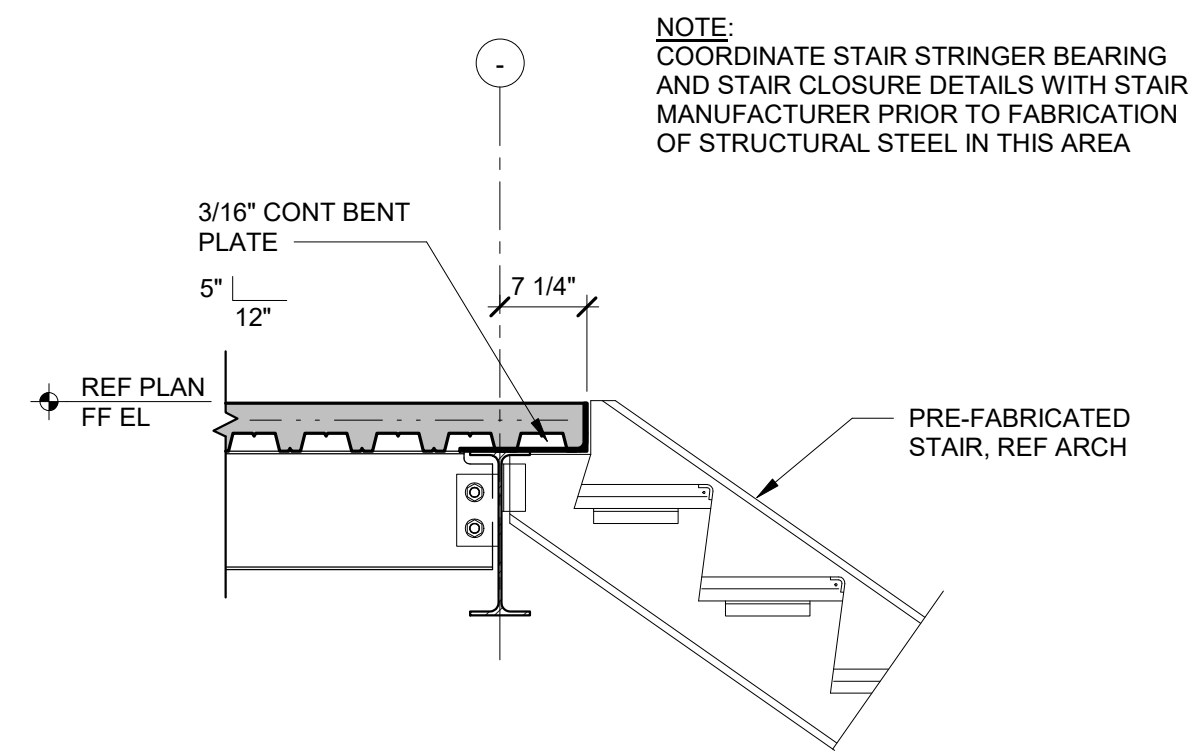




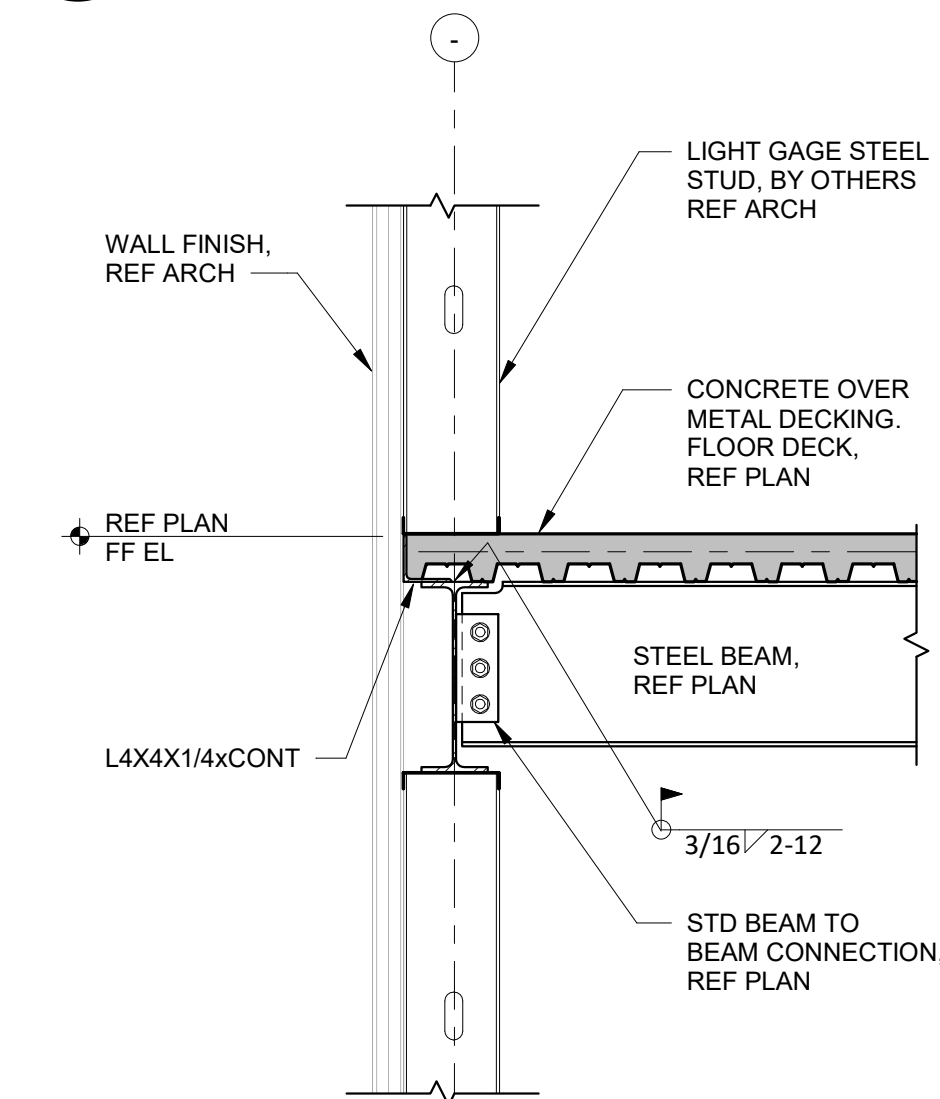
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3/4" = 1'-0"



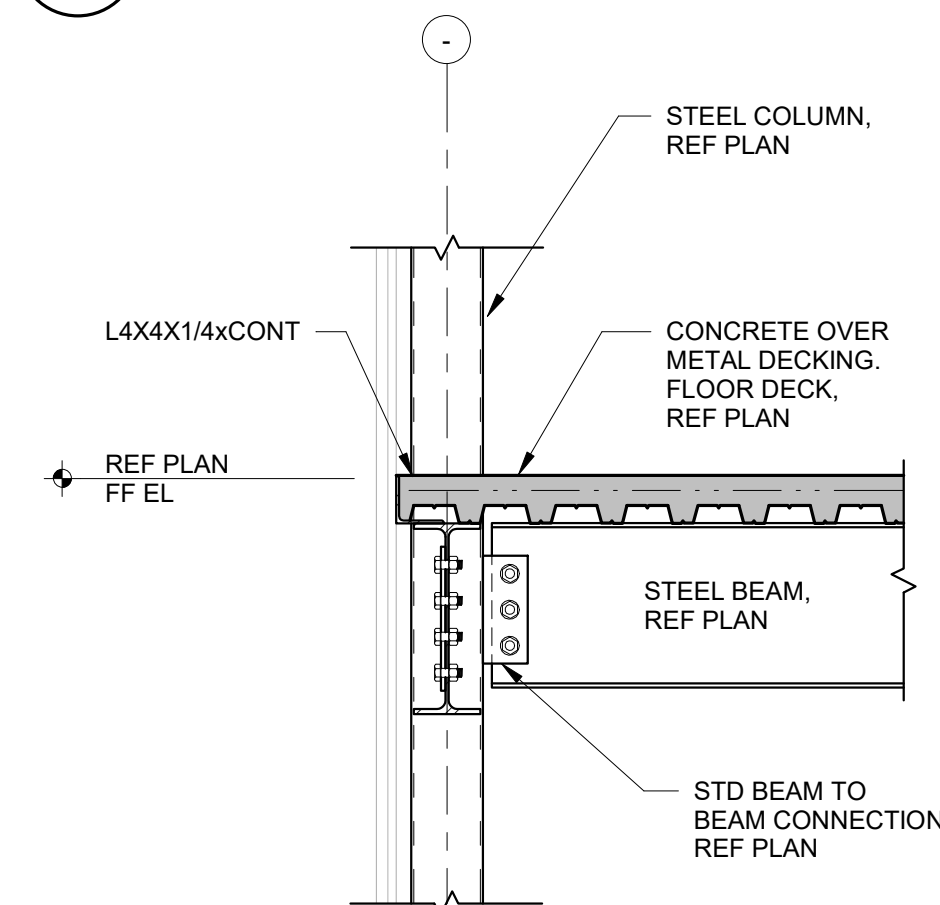
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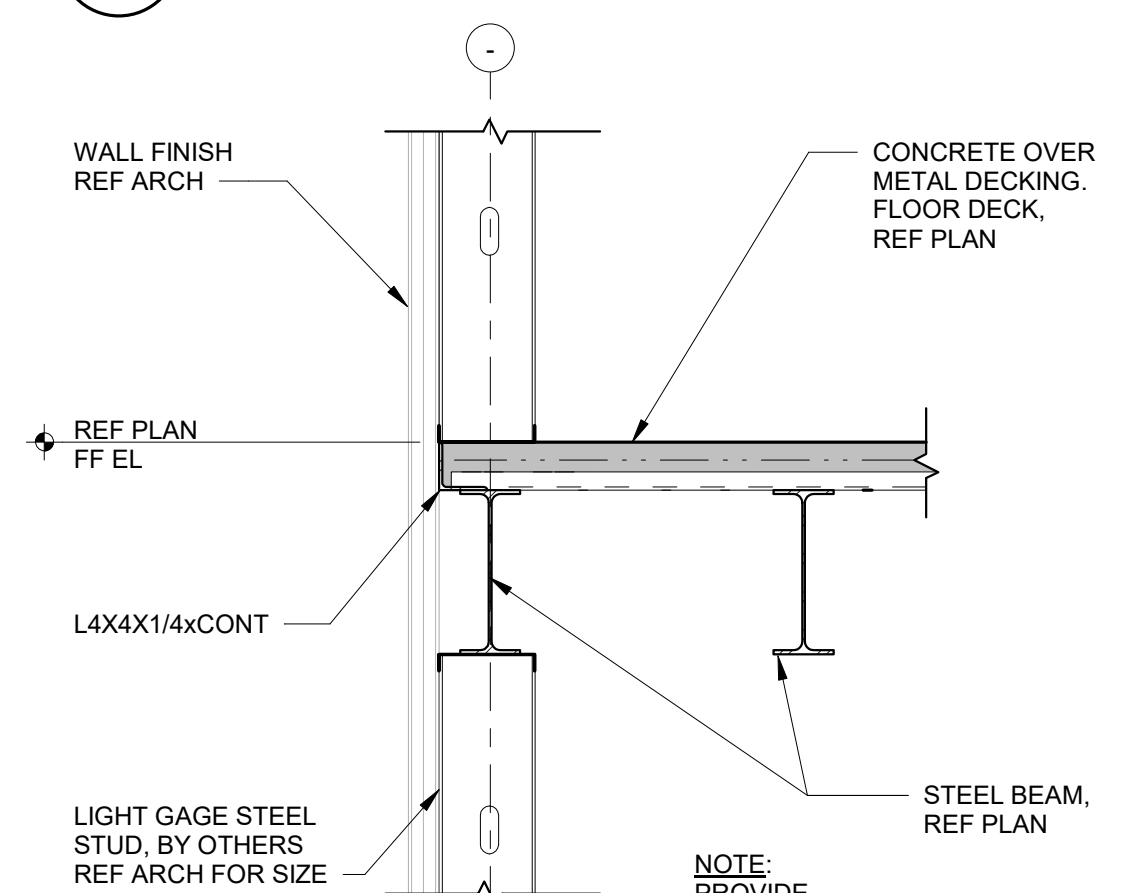
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3/4" = 1'-0"



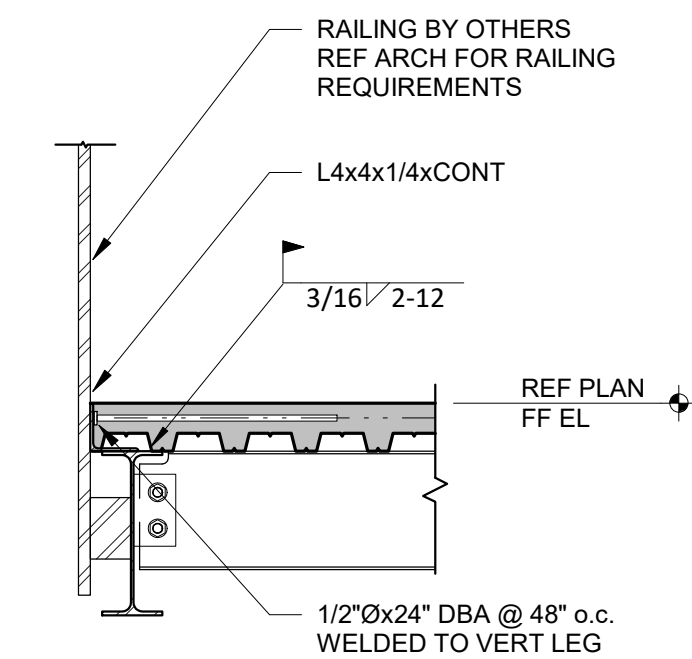
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3/4" = 1'-0"



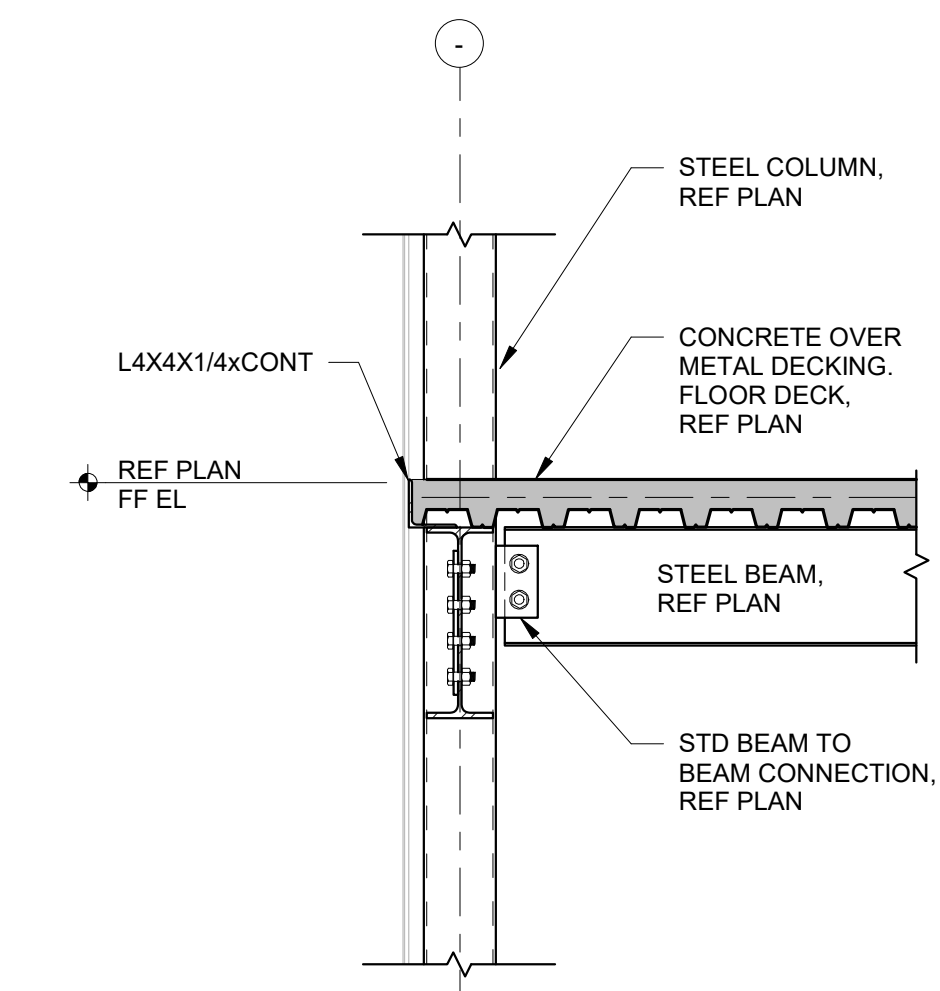
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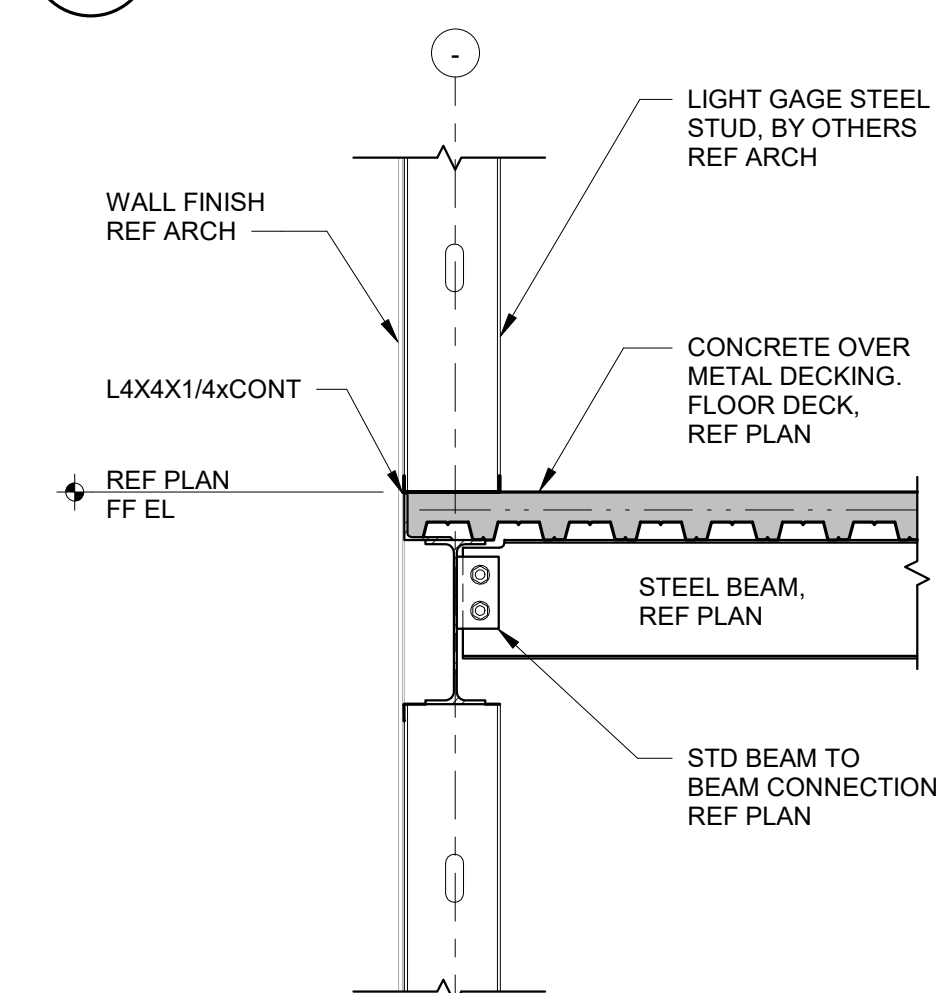
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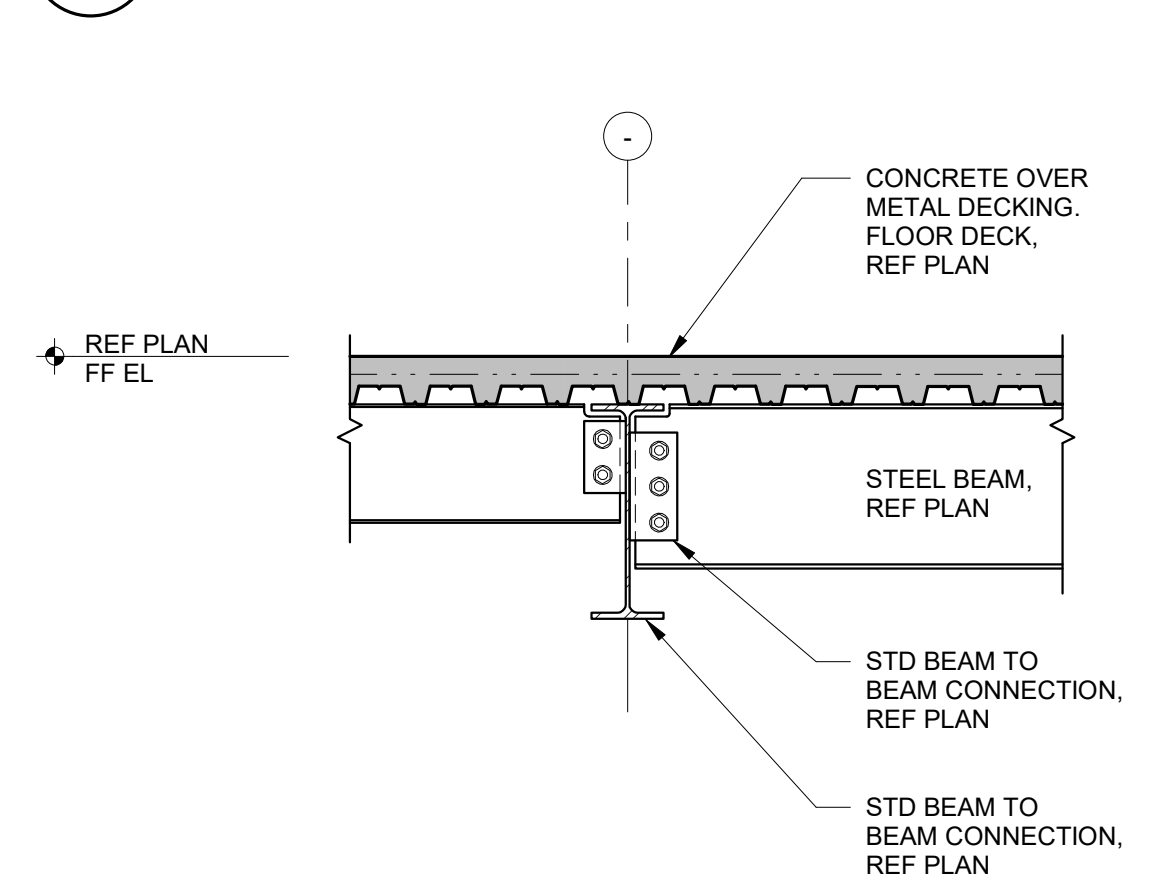
D5 SECTION
3/4" = 1'-0"



C5 SECTION
3/4" = 1'-0"



B5 SECTION
3/4" = 1'-0"



A5 SECTION
3/4" = 1'-0"

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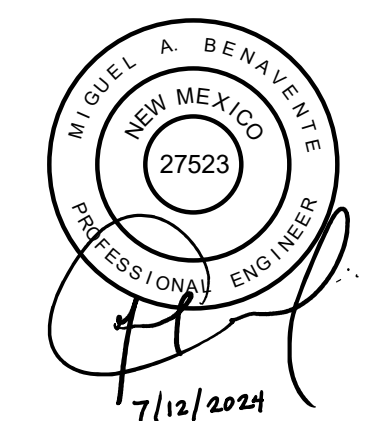
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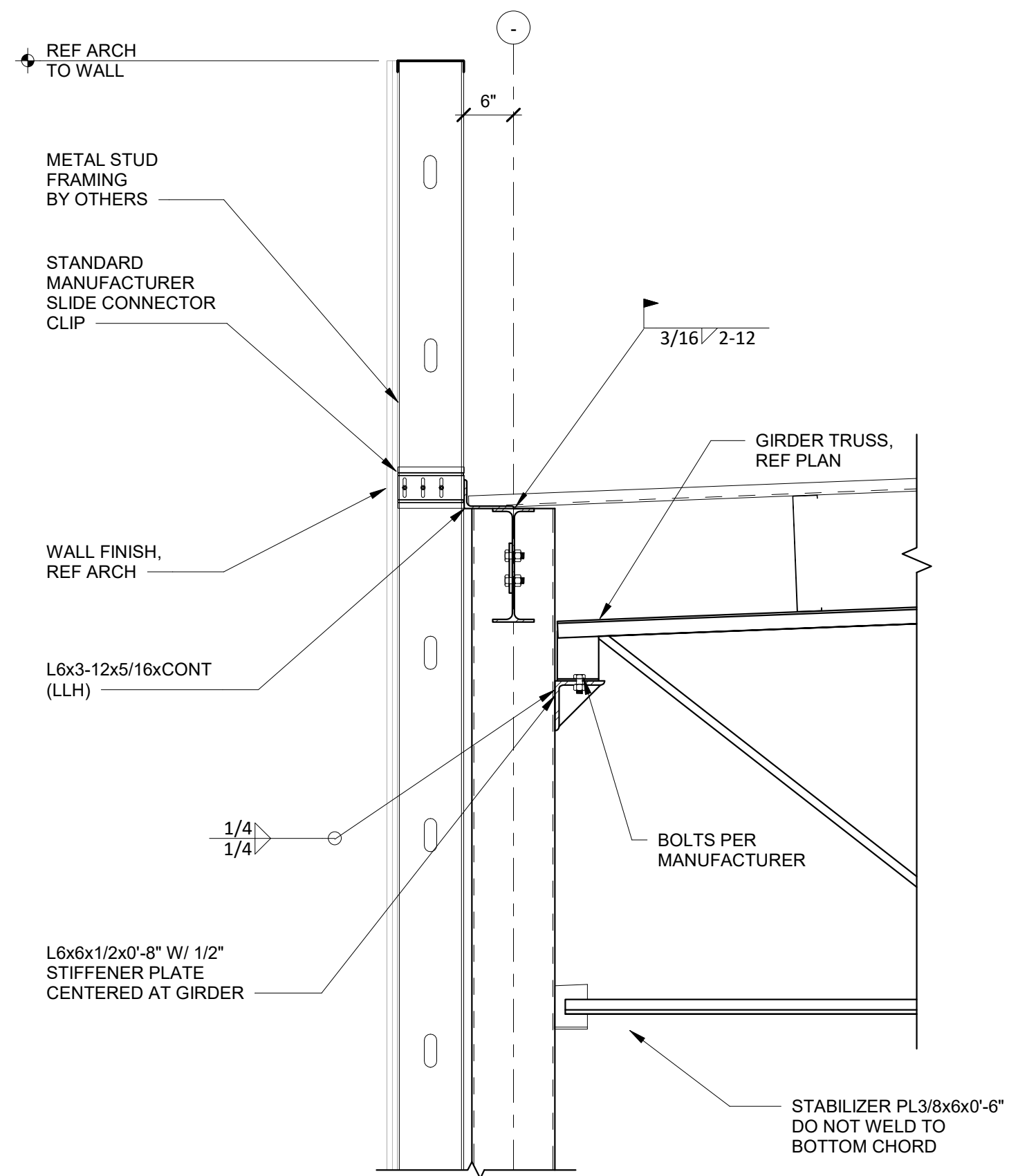
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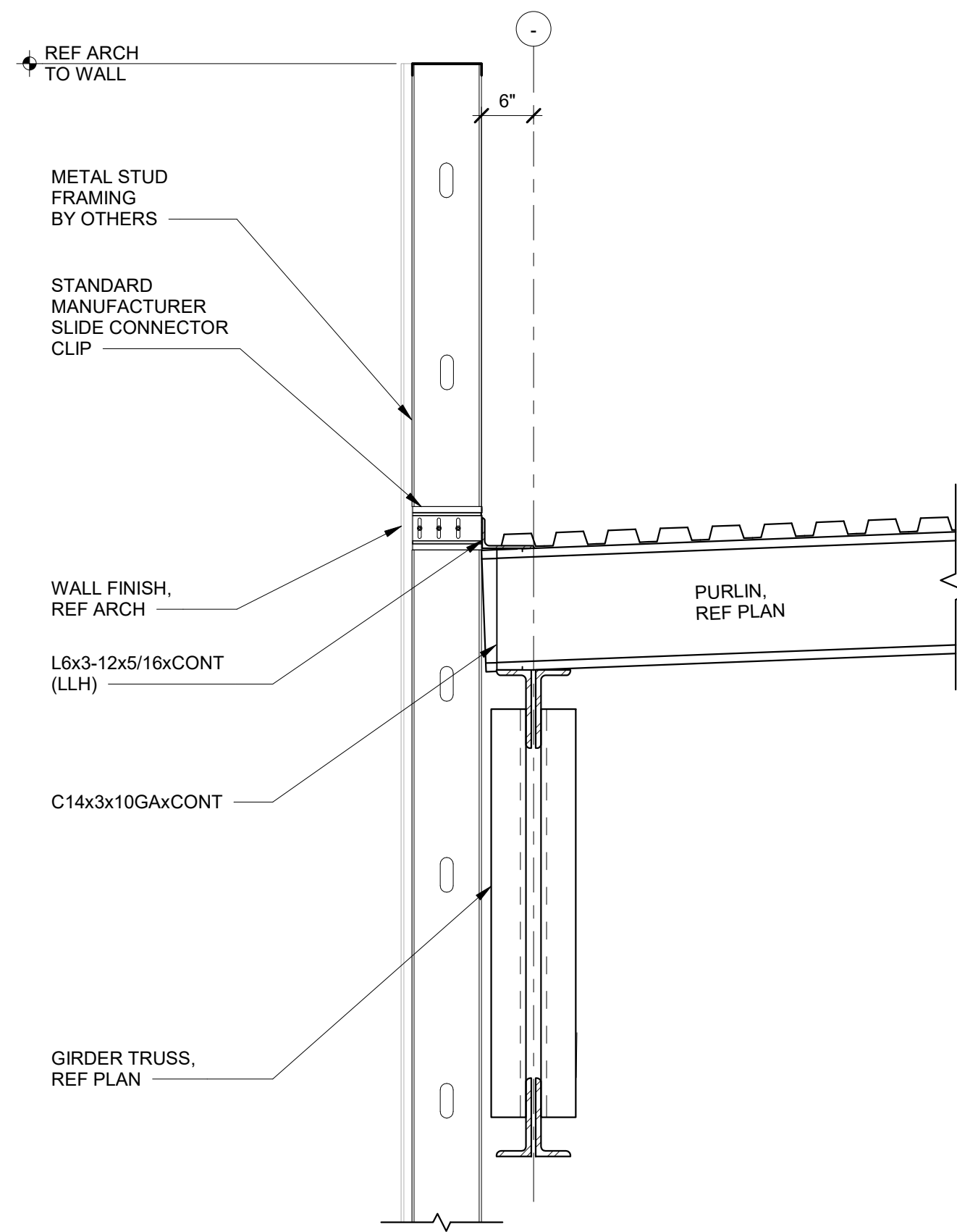


Date: 07/12/2024
Revised: --
Project No. STR0507.24
Drawn By: Author
Checked By: Checker
File Name:
Sheet Title: FRAMING DETAILS
Sheet No.

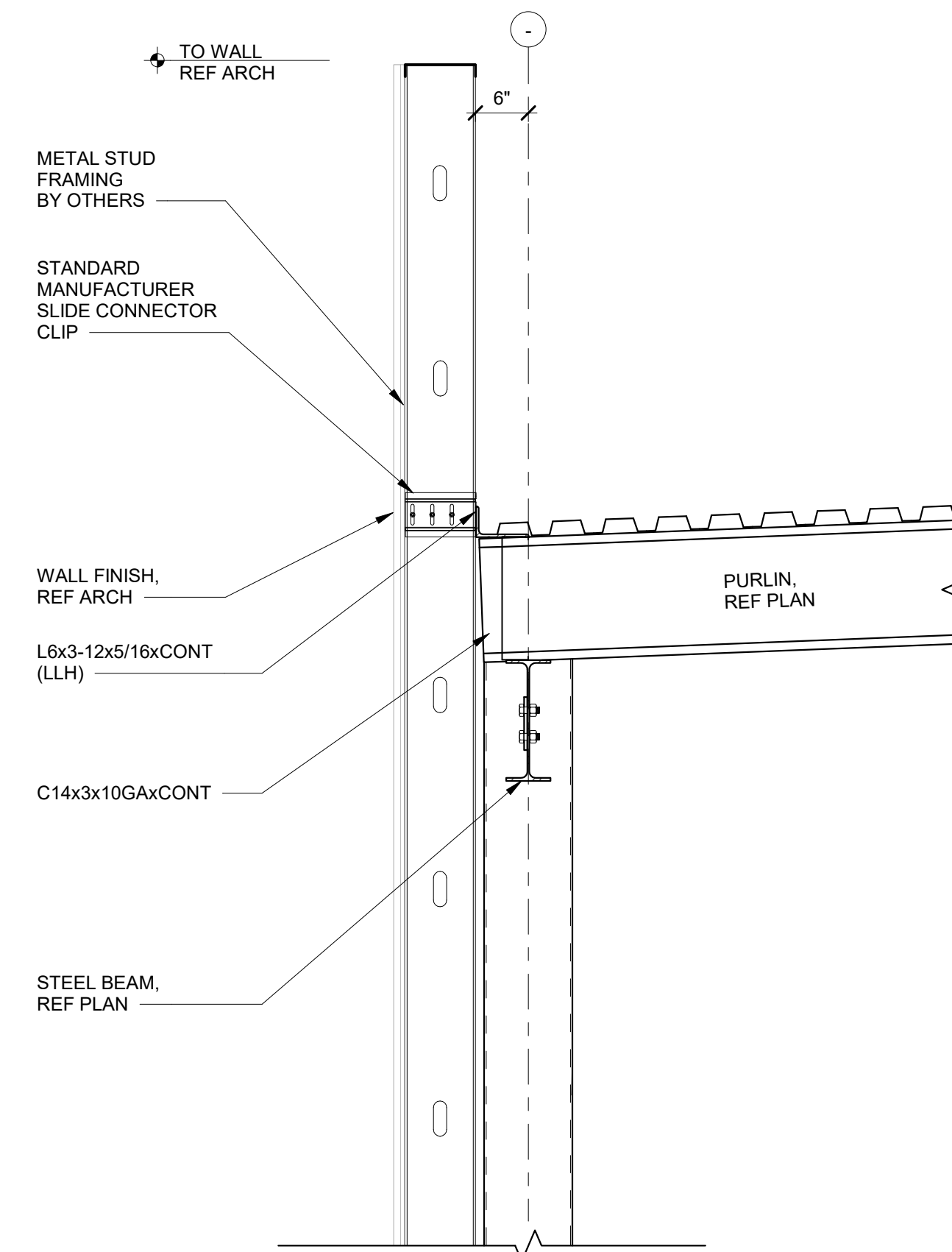
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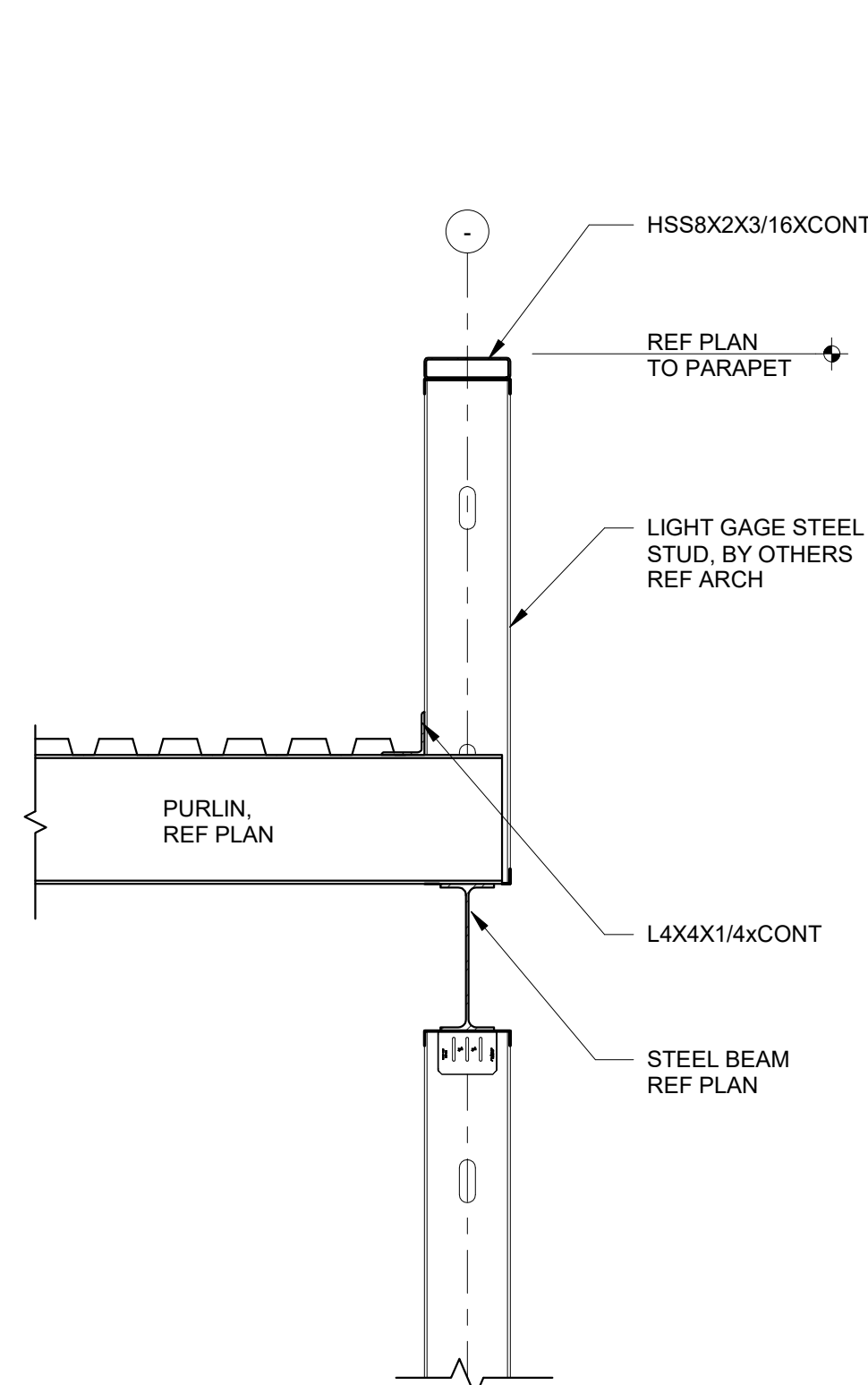
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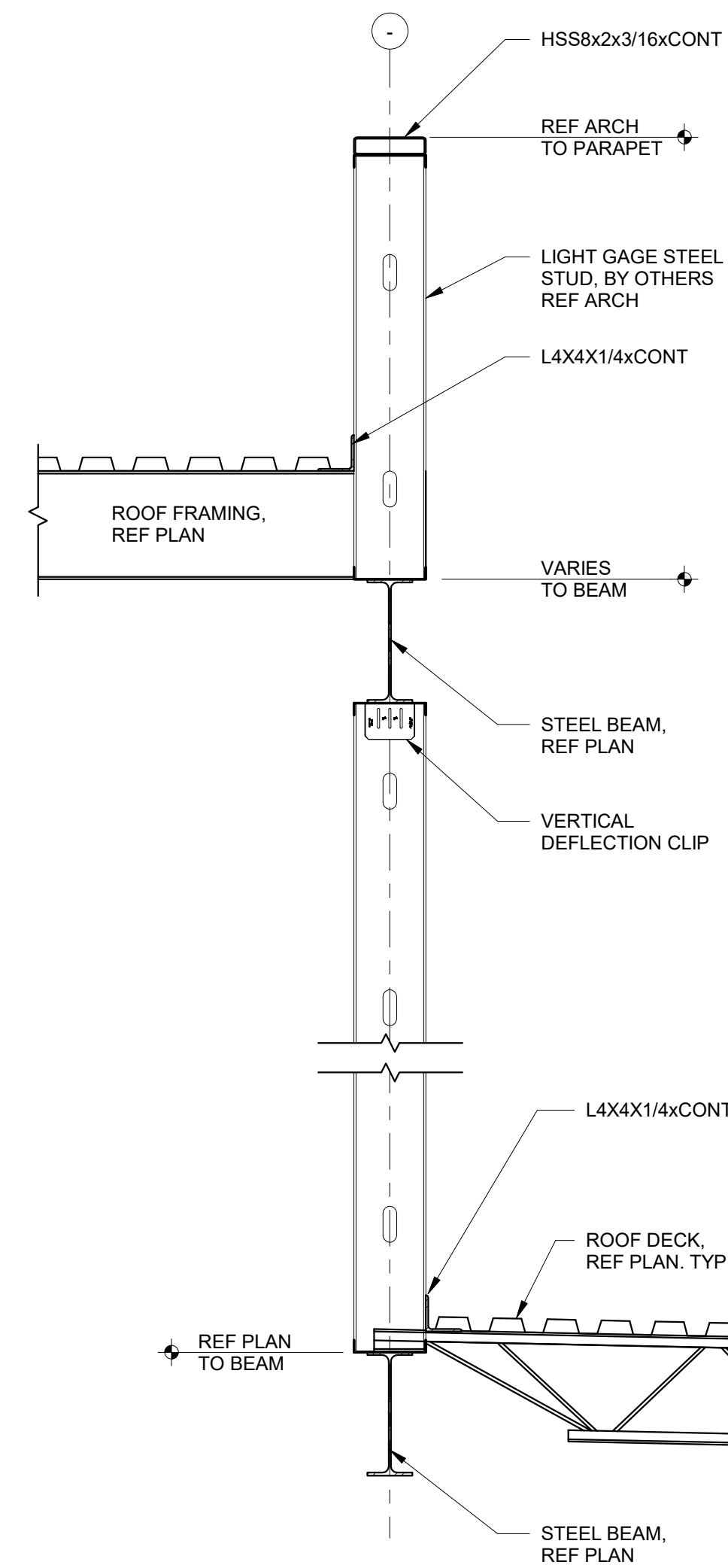
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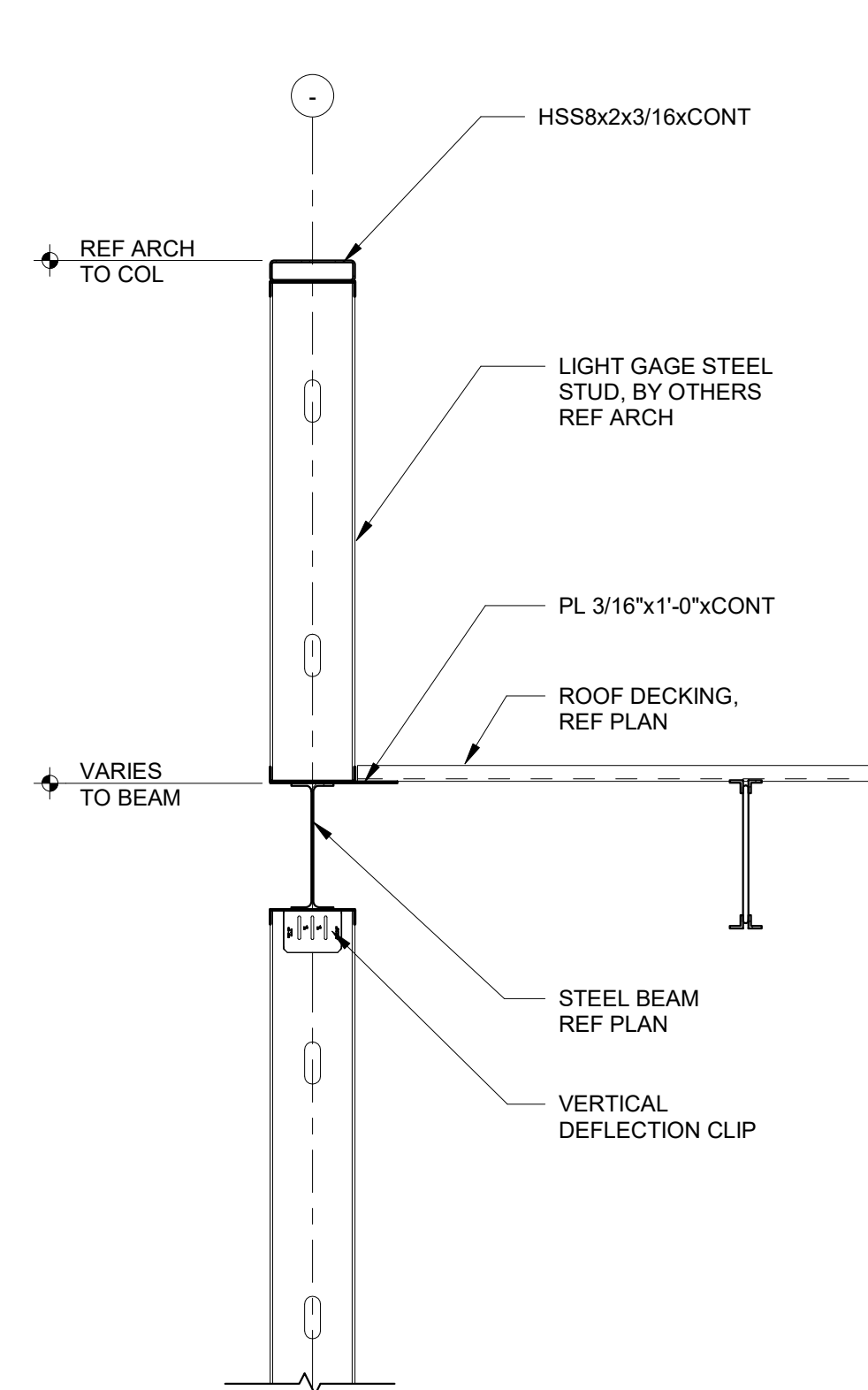
C4 SECTION
3/4" = 1'-0"



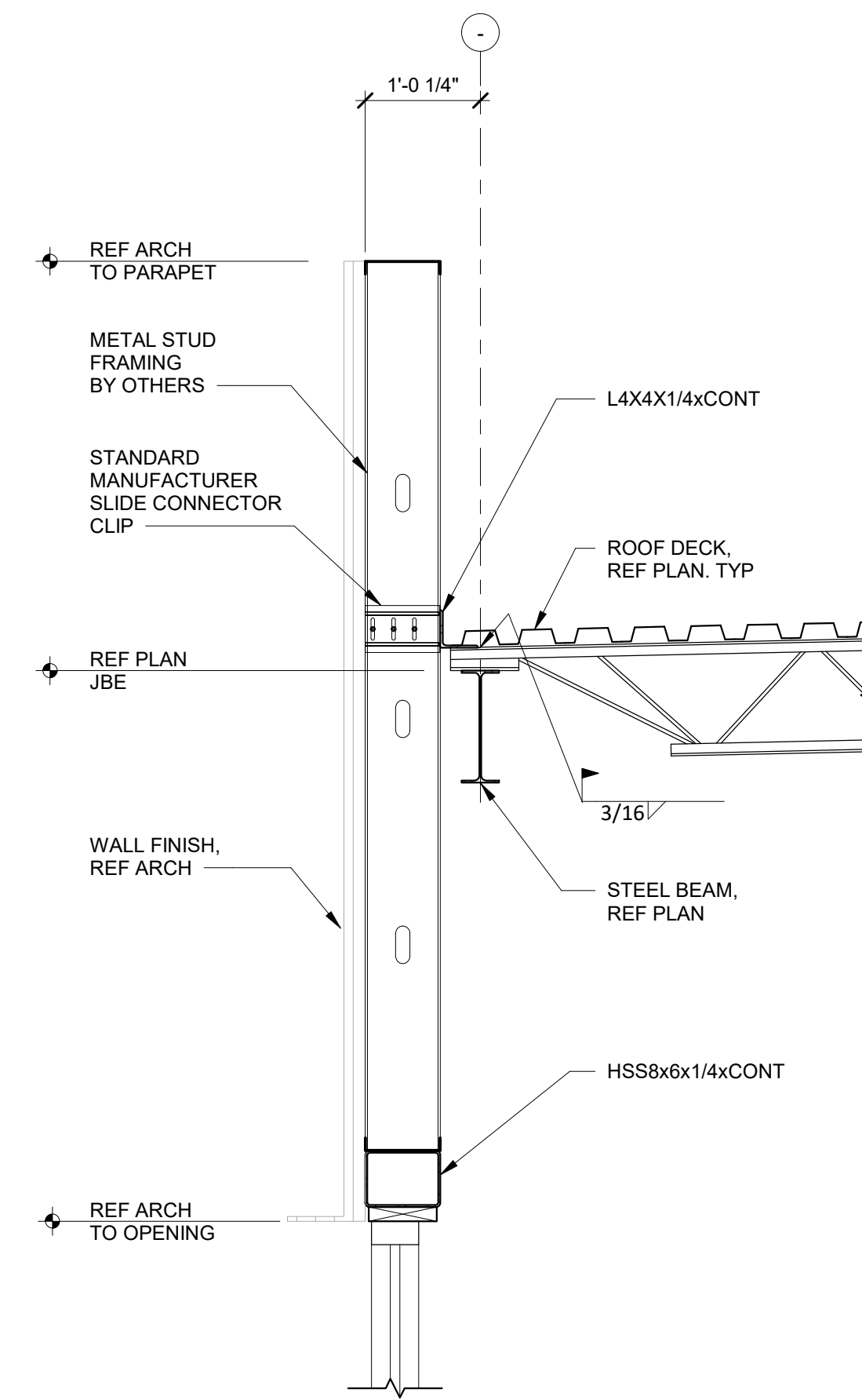
A1 SECTION
3/4" = 1'-0"



A2 SECTION
3/4" = 1'-0"

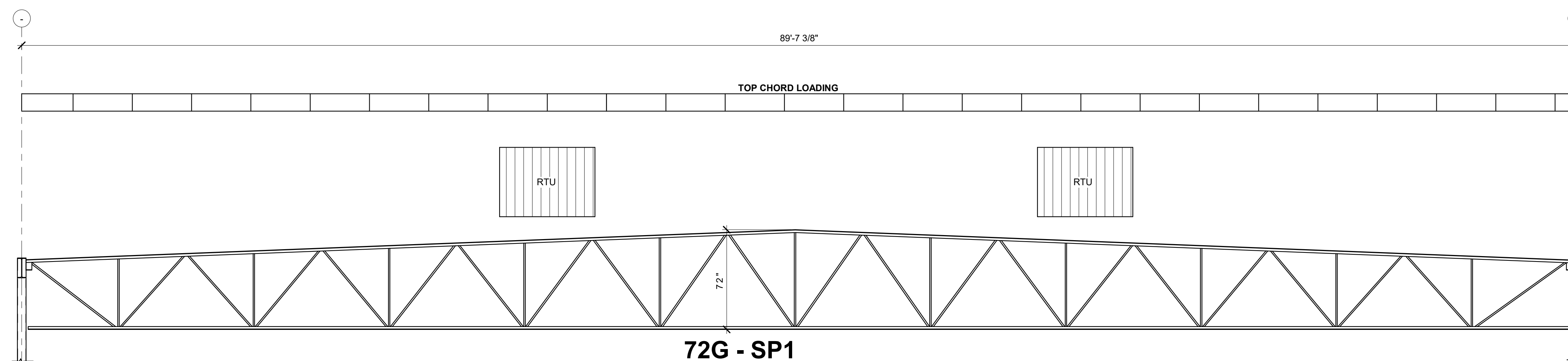


A4 SECTION
3/4" = 1'-0"



A5 SECTION
3/4" = 1'-0"

REFER TO PLAN FOR
LOCATION AND WEIGHT OF
MECHANICAL UNITS
AND APPLY TO JOIST
GIRDER.



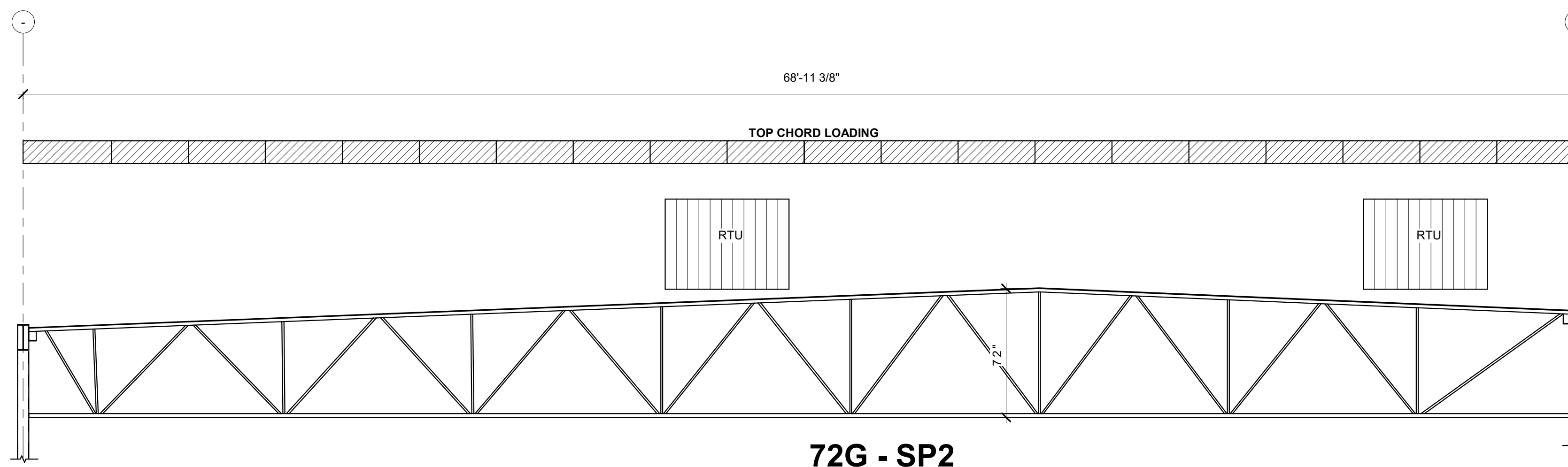
C1 72G-SP1 TRUSS GIRDER LOADING PROFILE
1/4" = 1'-0"

NOTES:
REFERENCE PLANS FOR DIMENSIONS AND COLUMNS SIZES
ACTUAL WEB MEMBER CONFIGURATION TO BE DETERMINED BY JOIST MANUFACTURER

TOP CHORD LOADING:
DL: 587 PLF
LROOF: 587 PLF
(+WL); PER ASCE 7-16
(-WL): PER ASCE 7-16

HALF OF EACH RTU WEIGHT
(REF PLAN)

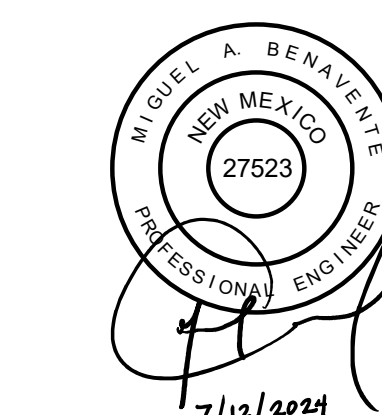
REFER TO PLAN FOR
LOCATION AND WEIGHT OF
MECHANICAL UNITS
AND APPLY TO JOIST
GIRDER



A1 72G-SP2 TRUSS GIRDER LOADING
1/4" = 1'-0"

Number	Date	Description
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Engineer's Seal:



Date: 07/12/2024

Revised:

Project No. STR0507.24

STR0507.24

Drawn By: _____

Author: _____

Checked By: _____ Checker: _____

File Name:

Sheet Title:
**TRUSS LOADING
PROFILES**

Sheet No.

S-600

AIR CONDITIONING UNIT SCHEDULE																				
MARK	MFGR.	MODEL	CFM	ESP	COOLING MBH		COIL ENT. AIR		AMB db°F	SEER	HEATING MBH		FUEL	MCA	MOP	VOLTS	PH	FAN HP	WT	REMARKS
					SENS.	TOTAL	wb°F	db°F			INPUT	OUTPUT								
ACU-1	TRANE	YHC047E3	1,510	0.5"	39	39	79	63	101	17.5	60	48	NG	14	20	460	3	1	767#	W/ ROOF CURB, HAIL GUARD, DRY BULB 100% ECONOMIZER W/BAROMETRIC RELIEF MINIMUM 190 CFM O.A., W/ PROGRAMABLE T-STAT.
ACU-2	TRANE	YHC060F3	2,005	0.5"	56	47	81	64	101	15	60	49	NG	14	20	460	3	1	992#	W/ ROOF CURB, HAIL GUARD, DRY BULB 100% ECONOMIZER W/BAROMETRIC RELIEF MINIMUM 366 CFM O.A., DUCT SMOKE DETECTOR W/ REMOTE ANNUNCIATOR, W/ PROGRAMABLE T-STAT.
ACU-3	TRANE	YZC090F3	2,880	0.5"	84	79	80	63	101	22.4	120	97	NG	23	35	460	3	2.75	1,195#	W/ ROOF CURB, HAIL GUARD, DRY BULB 100% ECONOMIZER W/BAROMETRIC RELIEF MINIMUM 377 CFM O.A., DUCT SMOKE DETECTOR W/ REMOTE ANNUNCIATOR, W/ PROGRAMABLE T-STAT.
ACU-4	TRANE	4YCY4024C1060A	600	0.5"	24	23	80	63	101	14	60	48	NG	16.5	25	208	1	1/2	500#	W/ ROOF CURB, HAIL GUARD, DRY BULB 100% ECONOMIZER W/BAROMETRIC RELIEF MINIMUM 100 CFM O.A., W/ PROGRAMABLE T-STAT.

AIR HANDLER (INDOOR) UNIT SCHEDULE												
MARK	MFGR.	MODEL	CFM	COOLING MBH				MCA	ELECTRICAL		PH	REMARKS
				TOTAL	db°F	wb°F	WT		MOP	VOLTS		
AHIU-1	MITSUBISHI	MSY-GE24NA	600	22.5	80	67	37#	1.0	20	208	1	W/ T-STAT MOUNTED ON WALL, CONDENSATE PUMP.

CONDENSING UNIT (OUTDOOR) SCHEDULE											
MARK	MFGR.	MODEL	COOLING MBH	AMB db F	SEER	ELECTRICAL				WT	REMARKS
						MCA	MOP	VOLTS	PH		
CU-1	MITSUBISHI	MUY-GE24NA	22.5	100	19	17	20	208	1	120#	LOW AMBIENT KIT AND HAIL GUARD.

EVAPORATIVE COOLER SCHEDULE										
MARK	MFGR.	MODEL	CFM	ESP	MOTOR				WT	REMARKS
					HP	V	PH	NO. SPDS		
EC-1	MASTER COOL	SAD 150	7372	0.1	1	230	3	1	593#	W/ CLEAN MACHINE. W/ 120V, 1 PH PUMP.

DIFFUSER SCHEDULE			
MARK	MFGR.	MODEL	REMARKS
A	NAILOR	6200	4-WAY SUPPLY DIFFUSER, LAY IN, ALUMINUM CONSTRUCTION, COLOR WHITE, W/ ALUMINUM OBD.
B	NAILOR	51EC	CUBE CORE RETURN AIR GRILLE, ALL ALUMINUM CONSTRUCTION, LAY IN MOUNT.
C	NAILOR	6200	4-WAY SUPPLY DIFFUSER, SURFACE MOUNT, ALUMINUM CONSTRUCTION, COLOR WHITE, W/ ALUMINUM OBD.
D	NAILOR	51EC	CUBE CORE RETURN AIR GRILLE, ALL ALUMINUM CONSTRUCTION, FOR GYP. CEILING.
E	NAILOR	71DH	SIDEWALL DOUBLE DEFLECTION SUPPLY DIFFUSER, ALUMINUM CONSTRUCTION, COLOR WHITE W/ OBD.
F	NAILOR	7145H	SIDEWALL RETURN AIR GRILLE, SURFACE MOUNT, ALUMINUM CONSTRUCTION, COLOR WHITE.
G	NAILOR	6300	ROUND SUPPLY DIFFUSER, ALL ALUMINUM CONSTRUCTION, SURFACE MOUNTED, W/ ALUMINUM OBD COLOR WHITE.

GAS UNIT HEATER SCHEDULE													
MARK	MFGR.	MODEL	CFM	MBH		FUEL	ELECTRICAL					WT	REMARKS
				INPUT	OUTPUT		FLA	MOC	HP	V	PH		
GUH-1	REZNOR	UEZ85	1,206	85	79	NG	2.2	15	.05	120	1	80 lbs.	W/ T-STAT, PROVIDE COMBUSTION AIR/VENT KIT W/CNTRIC ADAPTER.

MECHANICAL LEGEND

	NEW	EXISTING
DUCTWORK (INSULATED)		
DUCTWORK (UNINSULATED)		
MECHANICAL EQUIPMENT ON ROOF		
MECHANICAL EQUIPMENT BELOW ROOF		
FLEXIBLE DUCT		
AIR CONDITIONING UNIT	ACU	
FIRE DAMPER (VERTICAL)	FDR ◀	EFDR ◀
FIRE DAMPER (HORIZONTAL)	FDR ◆	EFDR ◆
EXHAUST FAN	EF	EEF
THERMOSTAT	Ⓟ	Ⓟ _E
DIFFUSER	MARK SIZE CFM	
KEYED SYMBOL	PARTIAL NO.	SHEET NO.

RELIEF HOOD

MARK	MFGR.	MODEL	THROAT SIZE	WT	REMARKS
REH-1	COOK	42"X48"GR	42"X48"	340#	GRAVITY RELIEF HOOD, W/INSECT SCREEN, PREFAB ROOF CURB AND BACKDRAFT DAMPER.

ELECTRICAL HEATER SCHEDULE

MARK	MFGR.	MODEL	MOTOR				REMARKS
			WATTS	V	PH	AMPS	
EH-1	QMARK	AWH3150F	1,500	120	1	12.5	FAN FORCED WALL MOUNTED ELECTRIC HEATER. W/ T-STAT.

EXHAUST FAN SCHEDULE

MARK	MFGR.	MODEL	CFM	ESP	MOTOR				WT	REMARKS
					WATTS	V	PH	NO.SPDS.		
EF-1	COOK	GC148	100	.25"	33.7	120	1	1	12#	CEILING EXHAUSTER, WITH ON/OFF SWITCH DUCTED TO EXTERIOR.
EF-2	COOK	GC186	140	.75"	62	120	1	1	13#	CEILING EXHAUSTER, WITH ON/OFF SWITCH DUCTED TO EXTERIOR.
EF-3	COOK	GC186	100	.75"	60	120	1	1	13#	CEILING EXHAUSTER, WITH ON/OFF SWITCH DUCTED TO EXTERIOR.

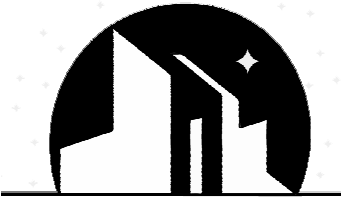
GENERAL NOTES

- DUCT DIMENSIONS SHOWN ARE AIR PASSAGE DIMENSIONS. ALL INSULATED SUPPLY AND RETURN DUCT IS TO BE WRAPPED AS SPECIFIED.
- ALL THERMOSTATS AND CONTROL SWITCHES SHALL BE LOCATED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- SHEET METAL SADDLES SHALL BE PLACED UNDER PIPE INSULATION AT ALL HANGER LOCATIONS, WHERE HANGERS CONTACT BARE COPPER PIPING PROVIDE DIELECTRIC INSULATION.
- ALL EXPOSED SUPPORTS AND HANGERS FOR EQUIPMENT OR PIPING SHALL BE PAINTED TO MATCH SURROUNDING ROOM OR STRUCTURE.
- ANY PLASTIC PIPING LOCATED IN A RETURN CEILING SPACE OR PLENUM SHALL BE ENCLOSED IN SHEETROCK OR WRAPED WITH 3M FORECASTER BLANKET OR UL910 STANDARD COVER.
- CONDENSATE LINES IN WALLS, CEILINGS OR INTERIOR SPACE SHALL BE INSULATED. CONDENSATE LINES SHALL SLOPE IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN ONE-EIGHT UNIT VERTICAL IN 12 UNITS HORIZONTAL (1-PERCENT SLOPE).
- PROVIDE UL RATED FIRE STOPPING AT PIPE AND DUCT PENETRATIONS OF FIRE RATED STRUCTURES. SYSTEM OF FIRE STOPPING MUST BE RATED FOR THE STRUCTURE PENETRATED.
- ALL MECHANICAL AND GRAVITY OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY OUTDOOR MECHANICAL EQUIPMENT EXHAUST, EXHAUST DUCTWORK AND VENT PIPING TERMINATING OUTDOORS.
- COORDINATE LOCATION OF DUCTWORK, PIPING, GRILLES, REGISTERS, DIFFUSERS, AND MECHANICAL EQUIPMENT WITH OTHER TRADES.
- ALL VOLUME DAMPERS LOCATED ABOVE GYP. CEILINGS SHALL BE PROVIDED WITH A YOUNG REGULATOR REMOTE OPERATOR.
- ALL EXPOSED ROUND DUCTWORK TO BE DOUBLE-WALL W/ 1.5 in. INSULATION. PAINT TO MATCH DECK COLOR, COORDINATE FINAL COLOR WITH OWNER AND ARCHITECT

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Number	Date	Description

Architect Seal:

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Drawn By:	FSI
Checked By:	JAB
File Name:	

Sheet Title:
LEGEND, NOTES,
SCHEDULES AND DETAILS

Sheet No.

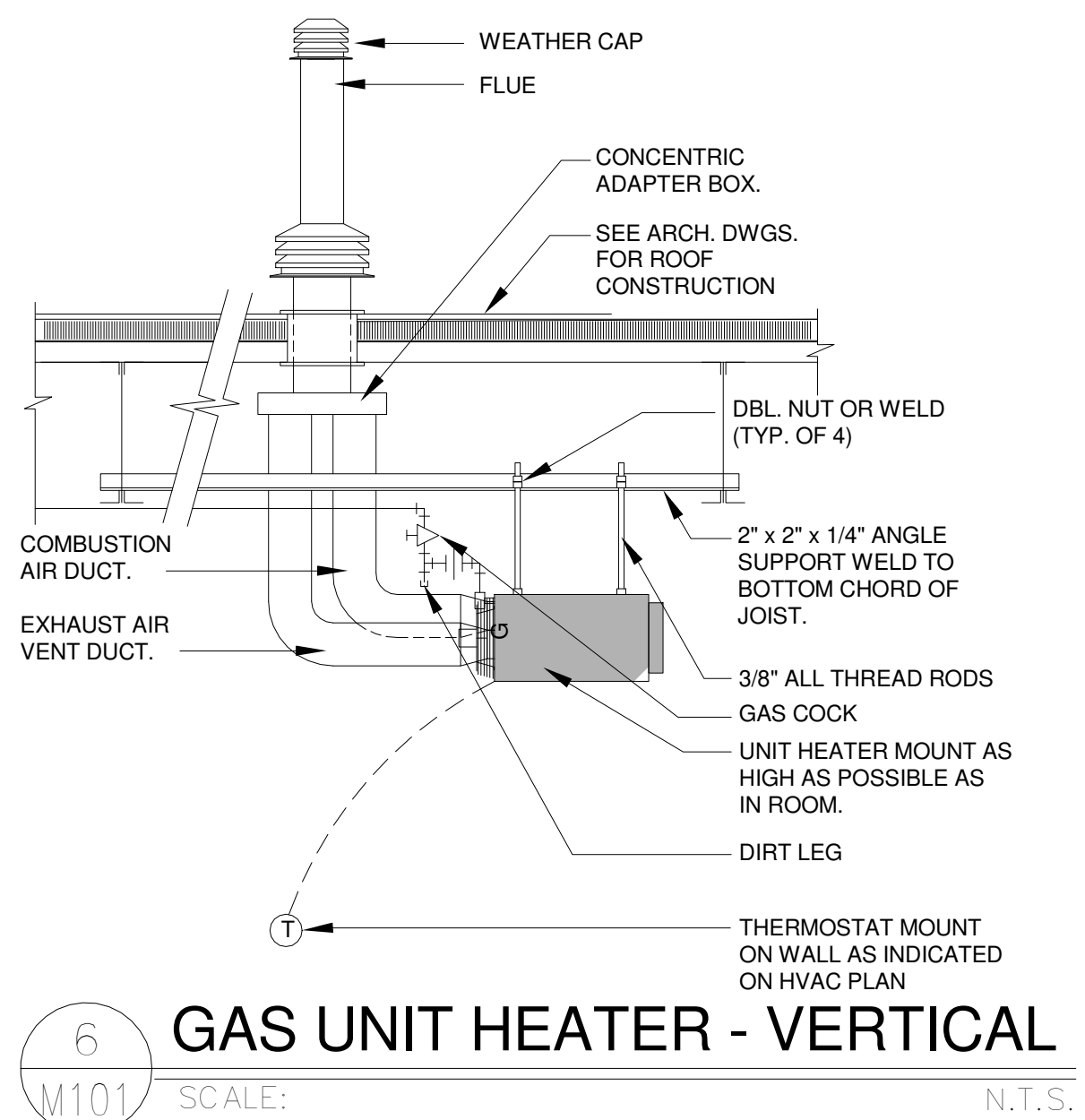
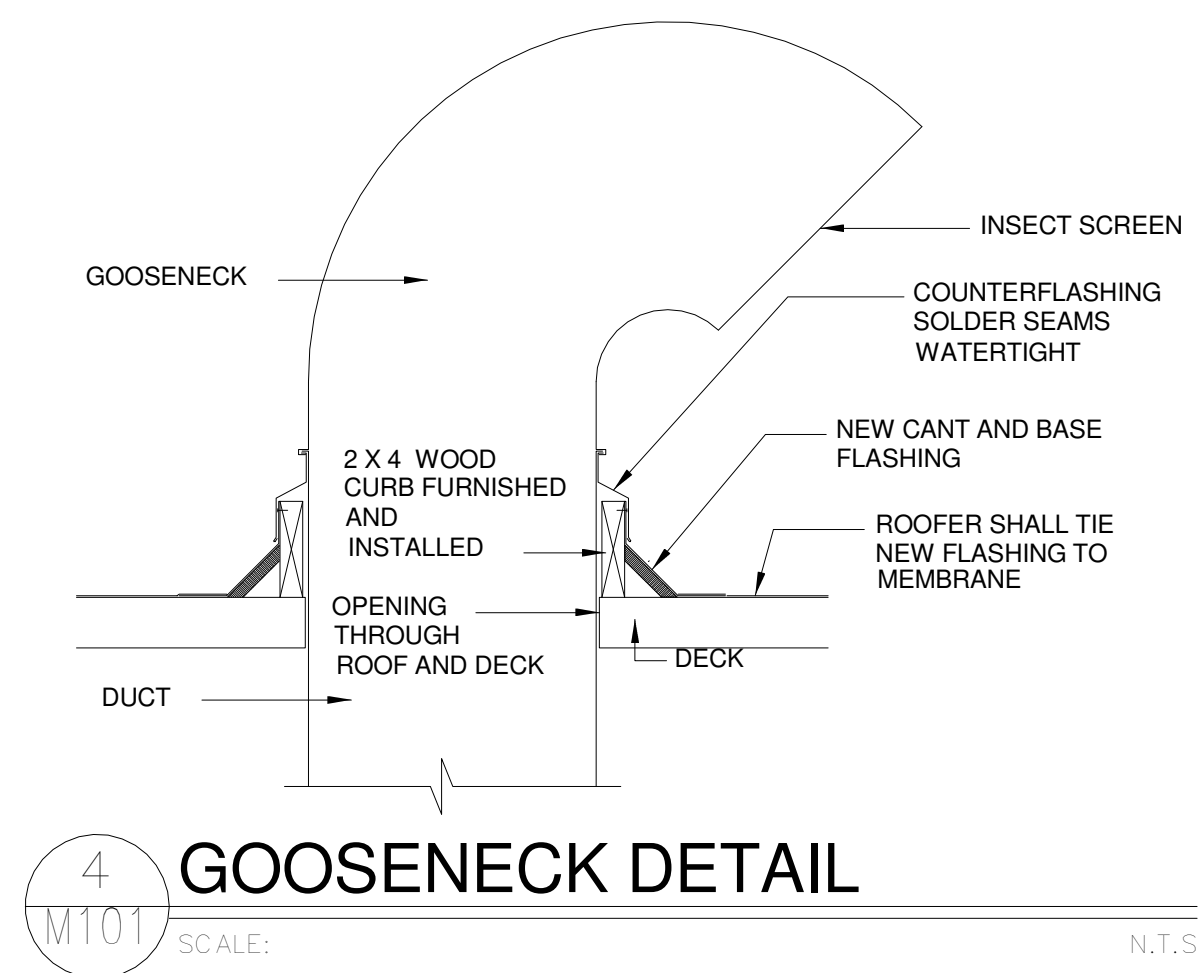
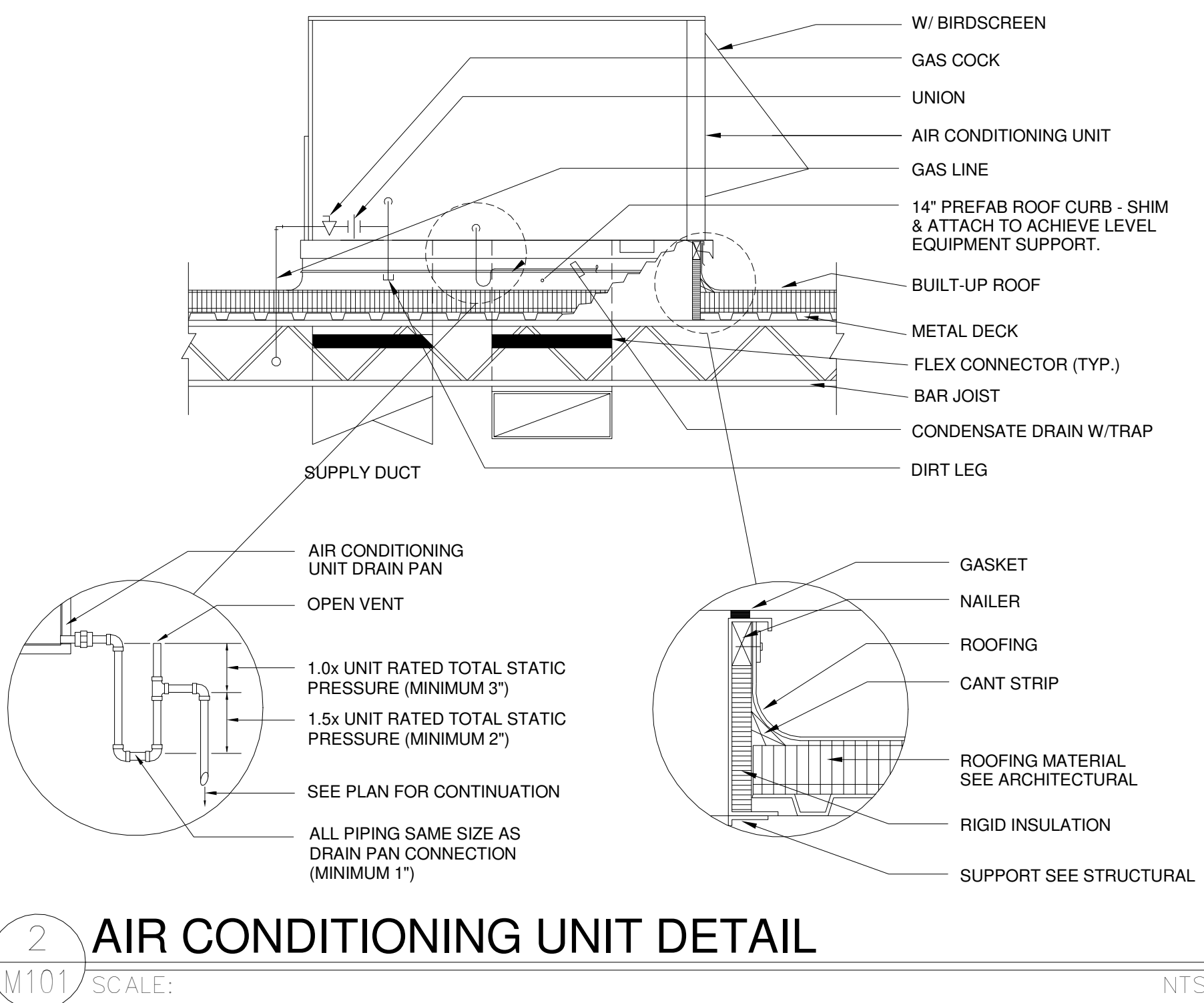
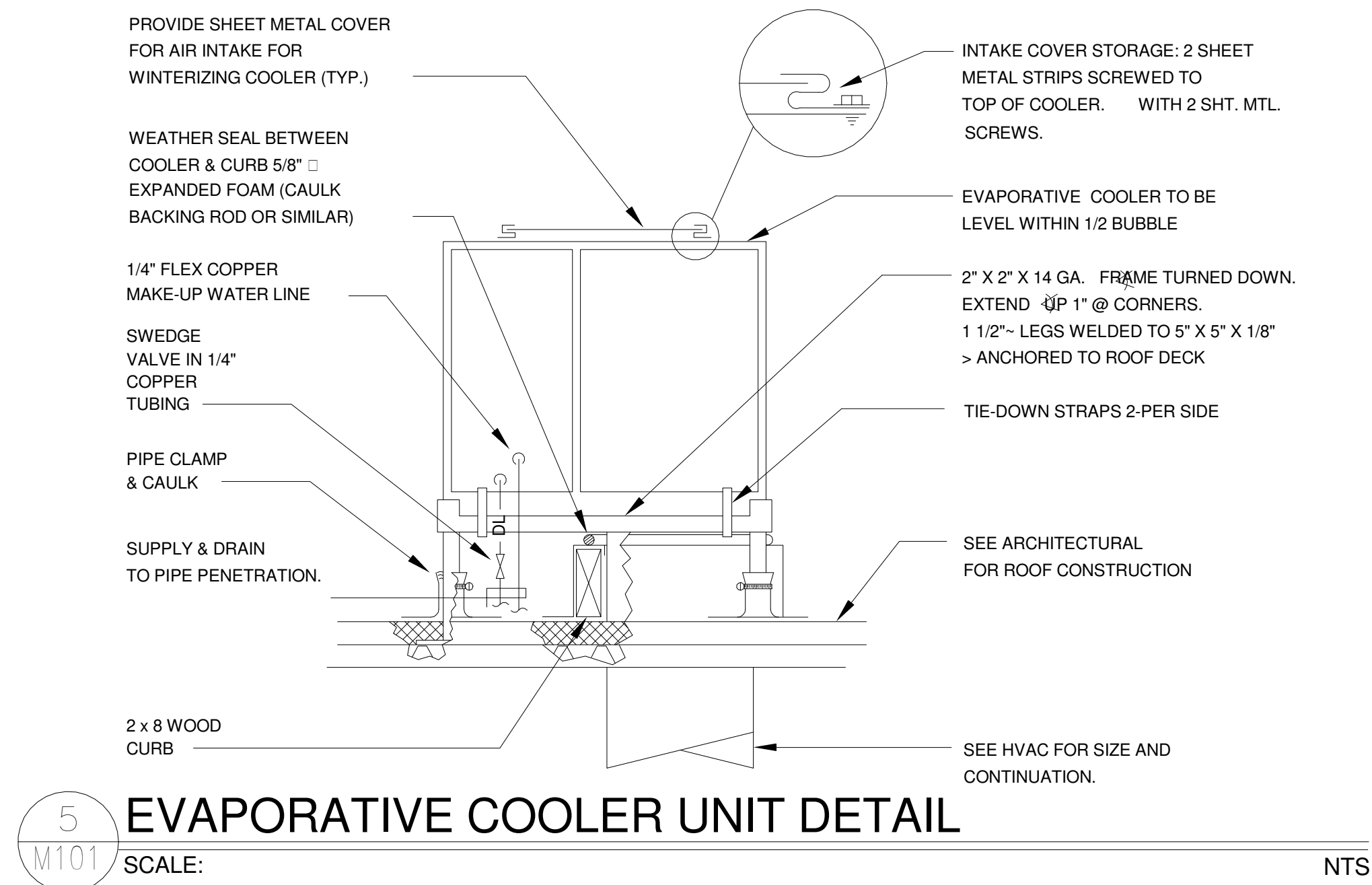
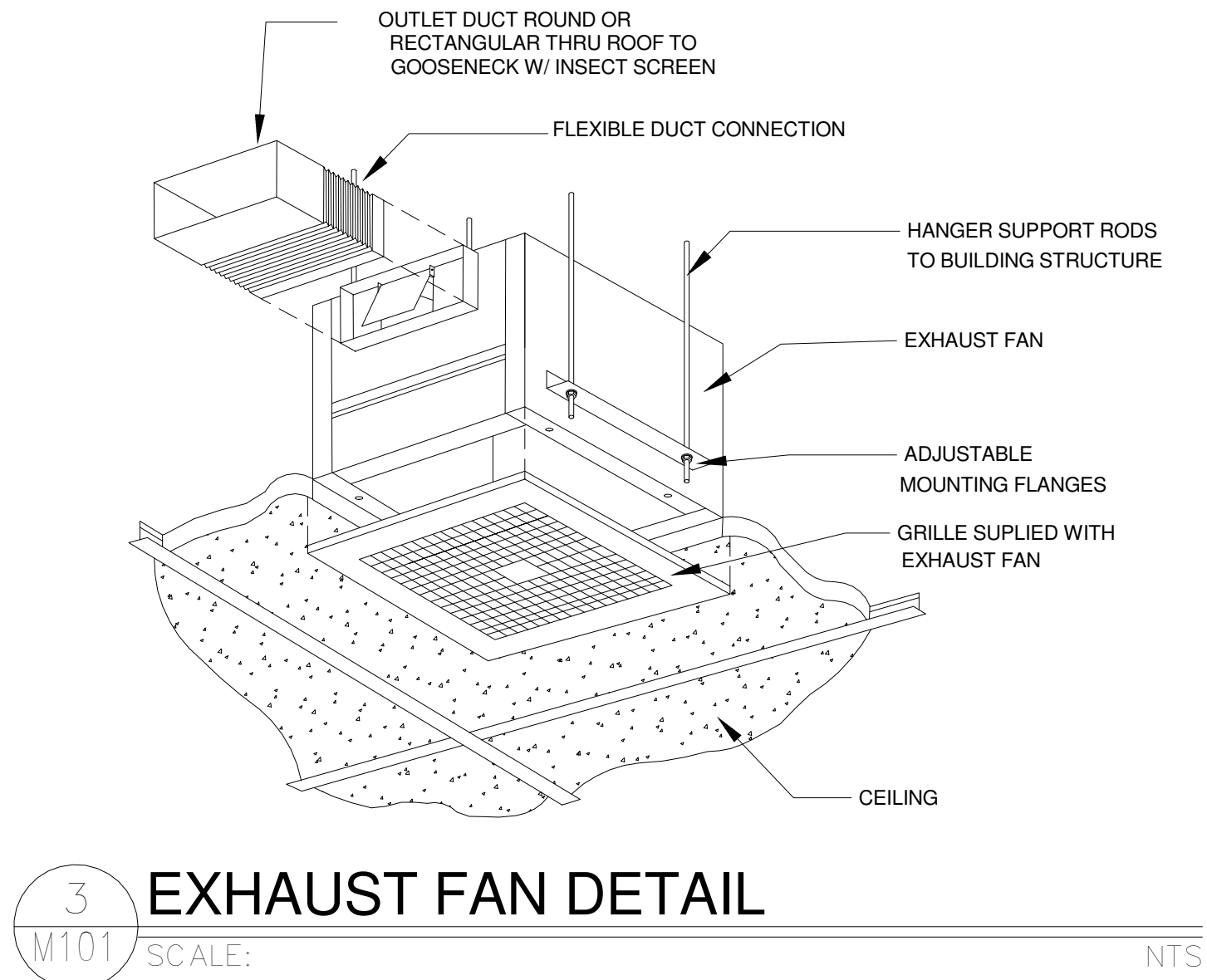
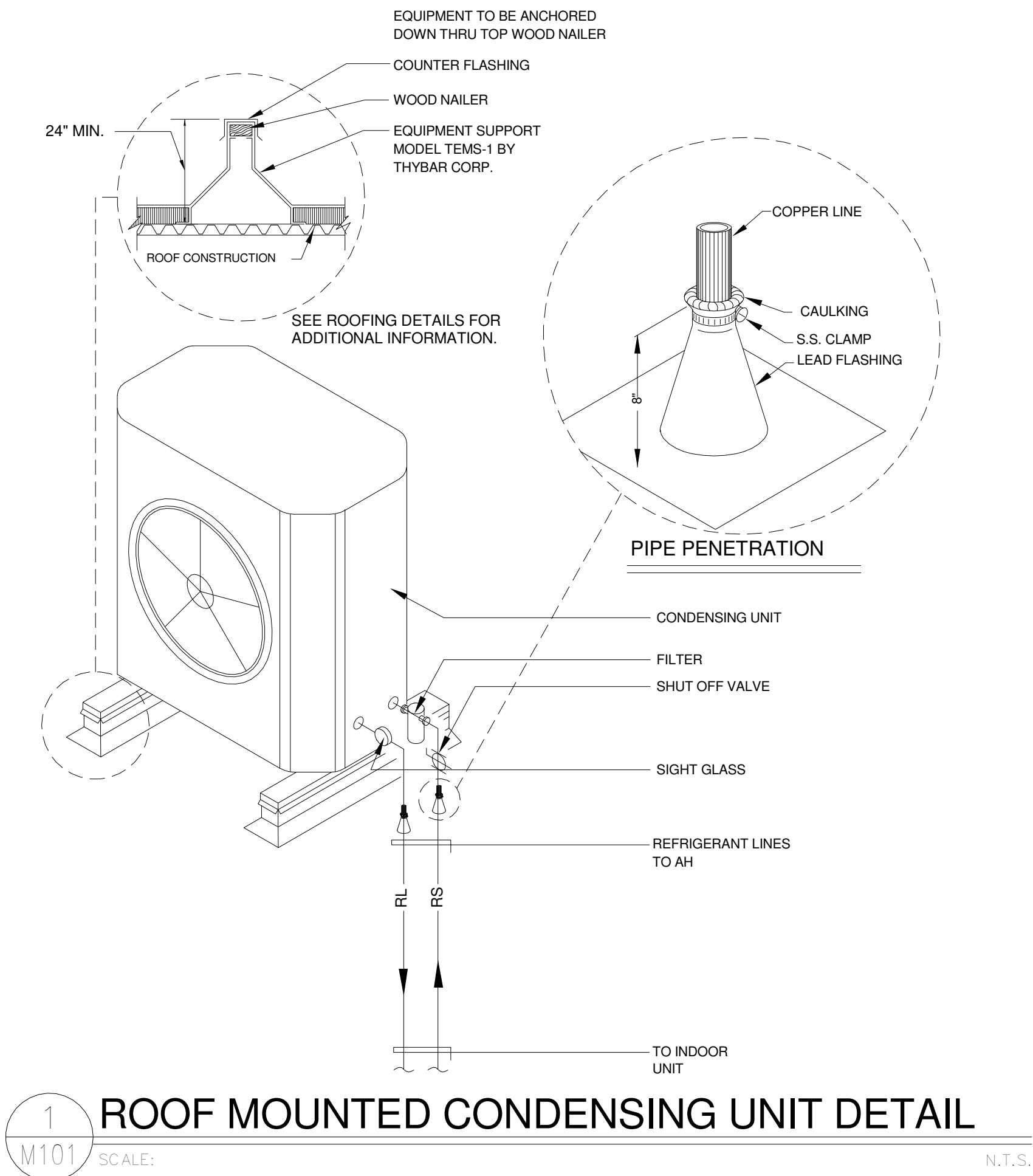
M100

Joe A. Bernal



07/11/24

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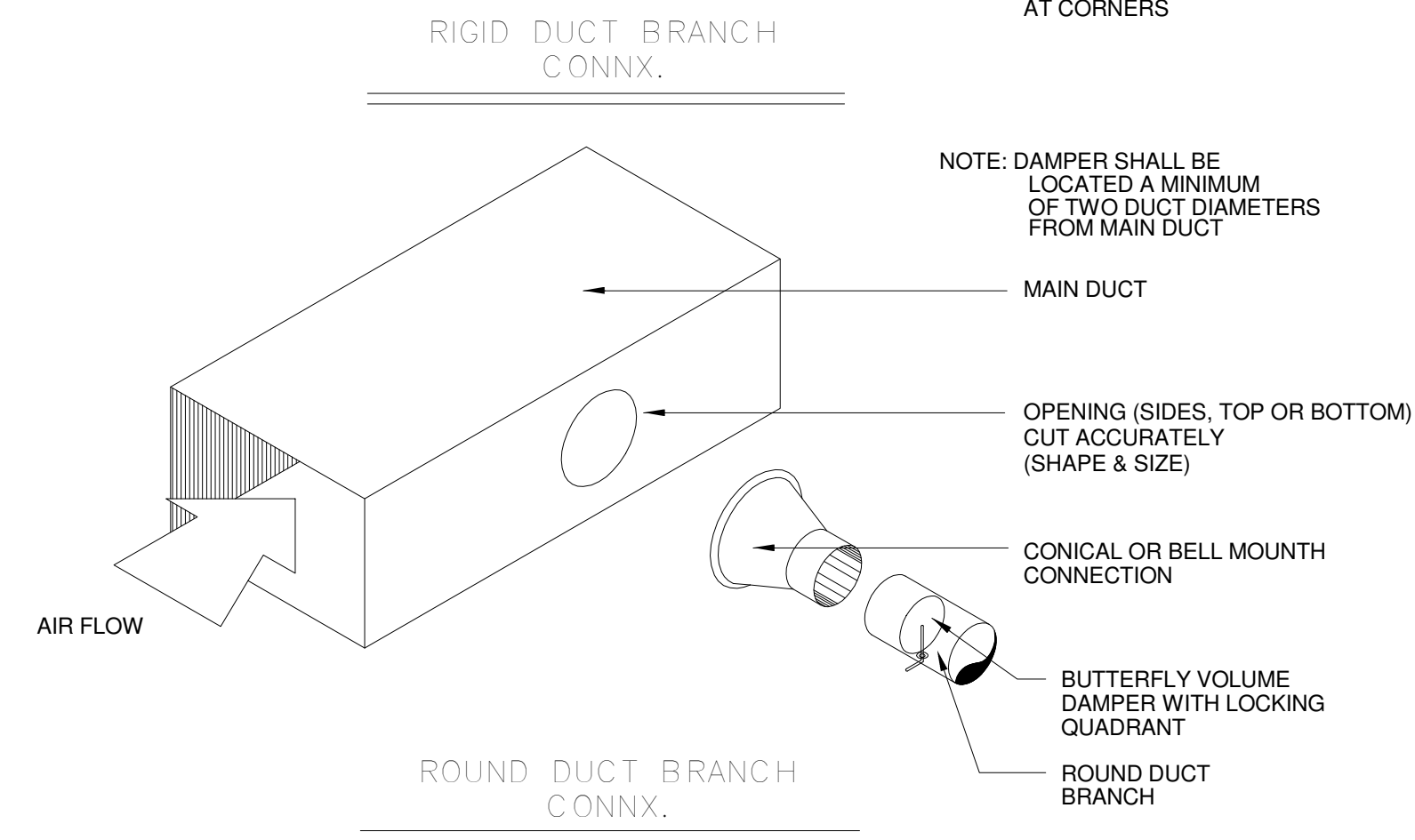
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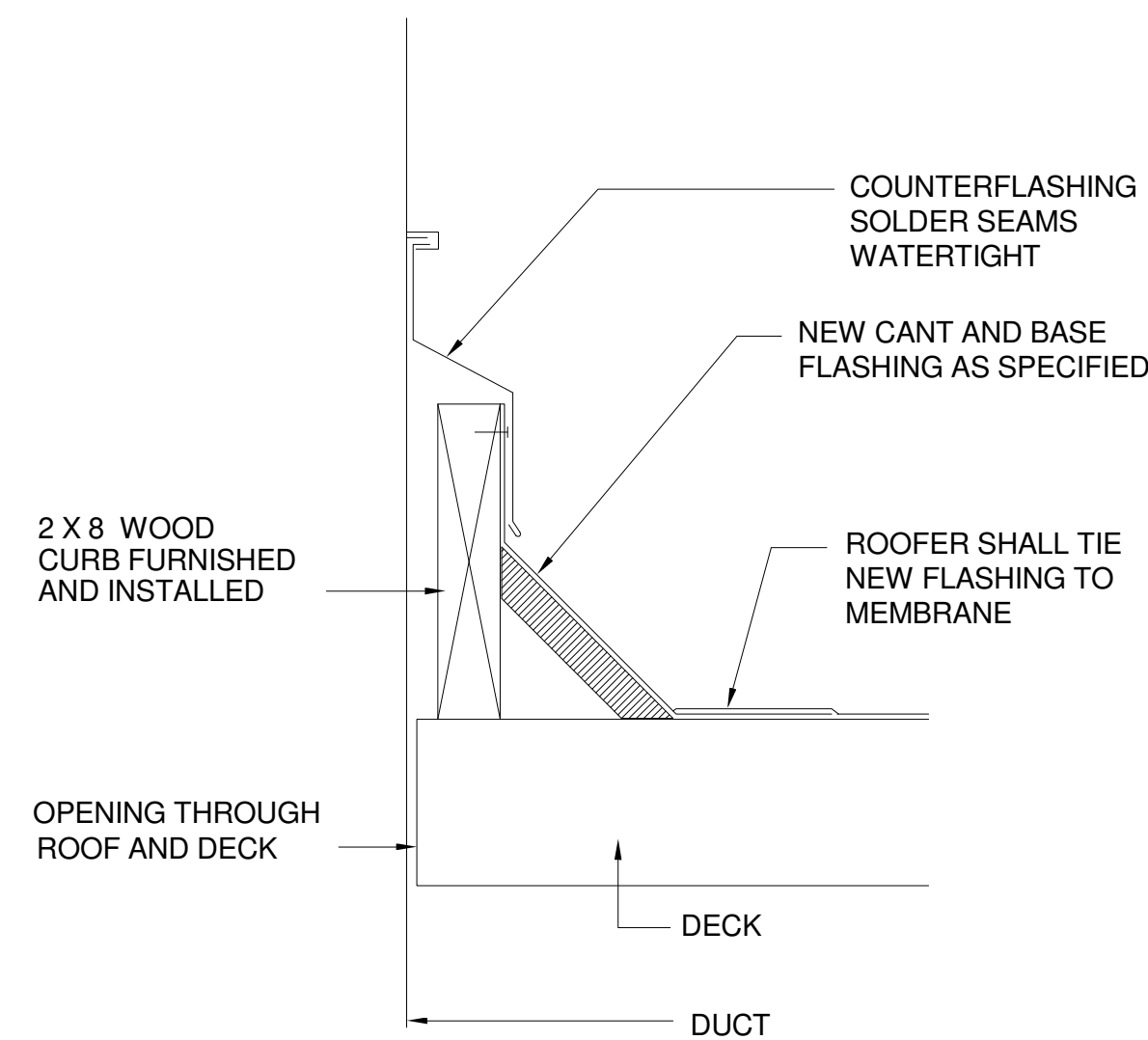
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Date: 01/15/2024
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Sheet Title: DETAILS

Sheet No.
M101

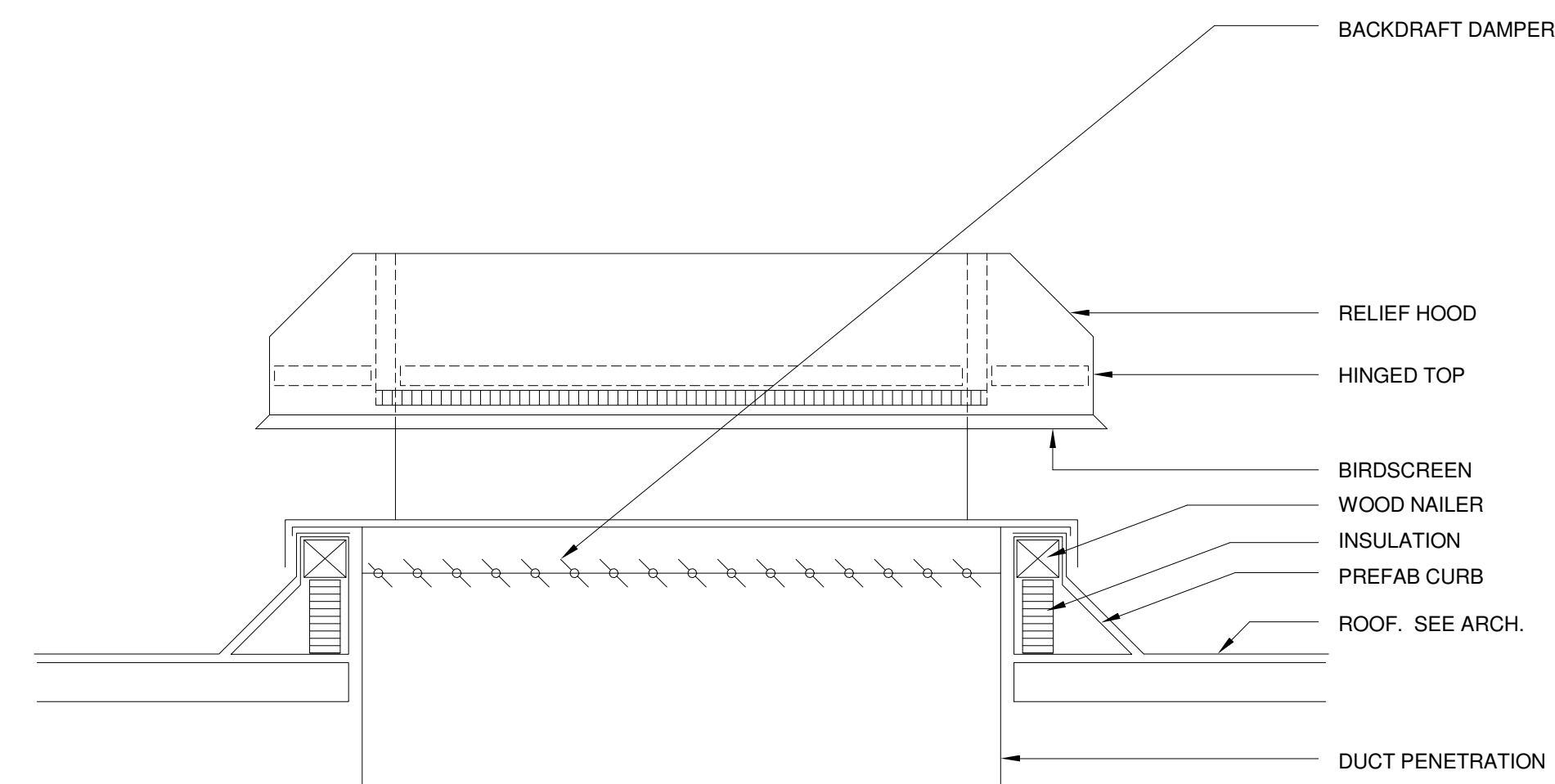


1 DUCT BRANCH DETAIL
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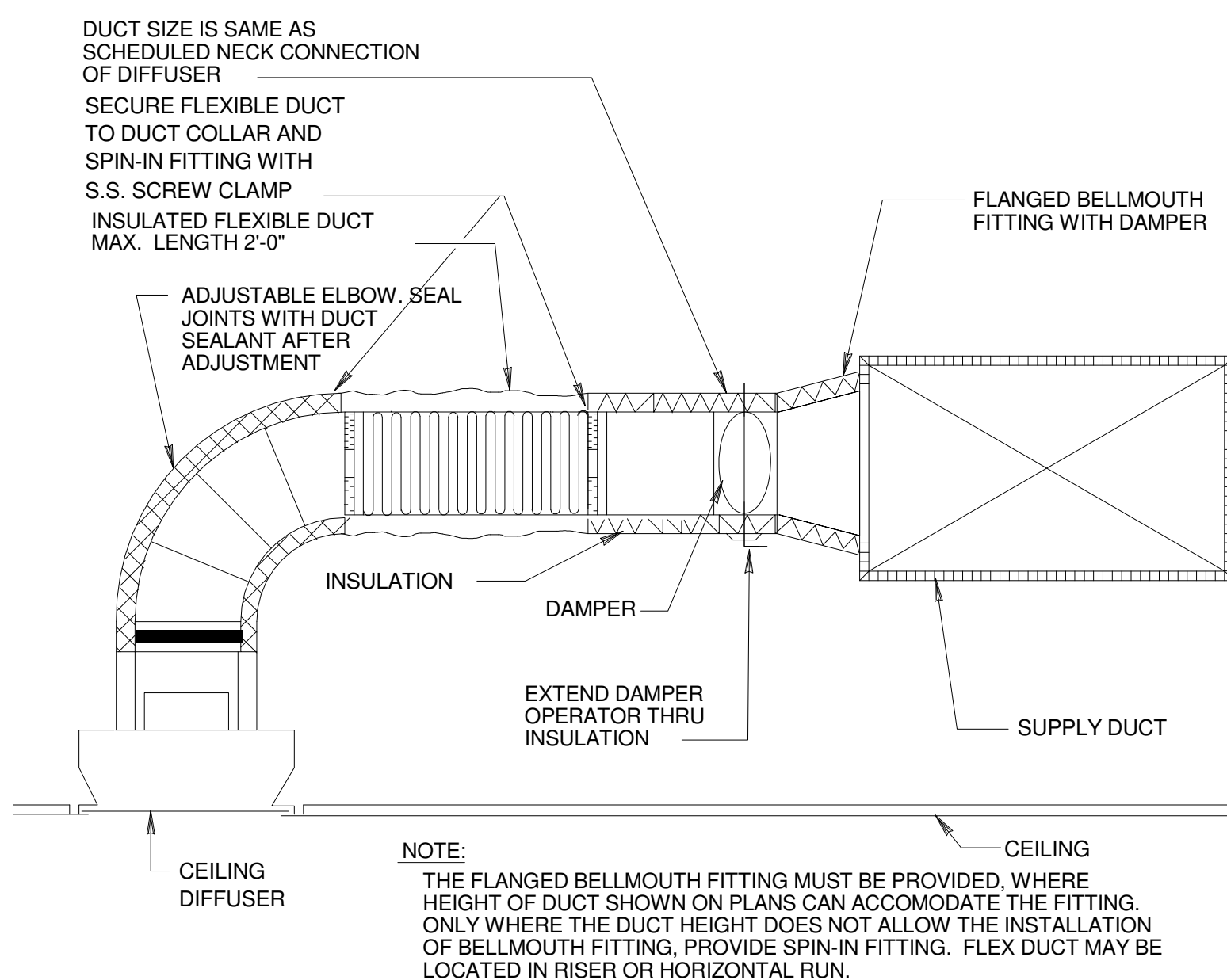


3 DUCT FLASHING DETAIL

M102 SCALE: N.T.S.



5 RELIEF HOOD DETAIL
M102 SCALE: NTS

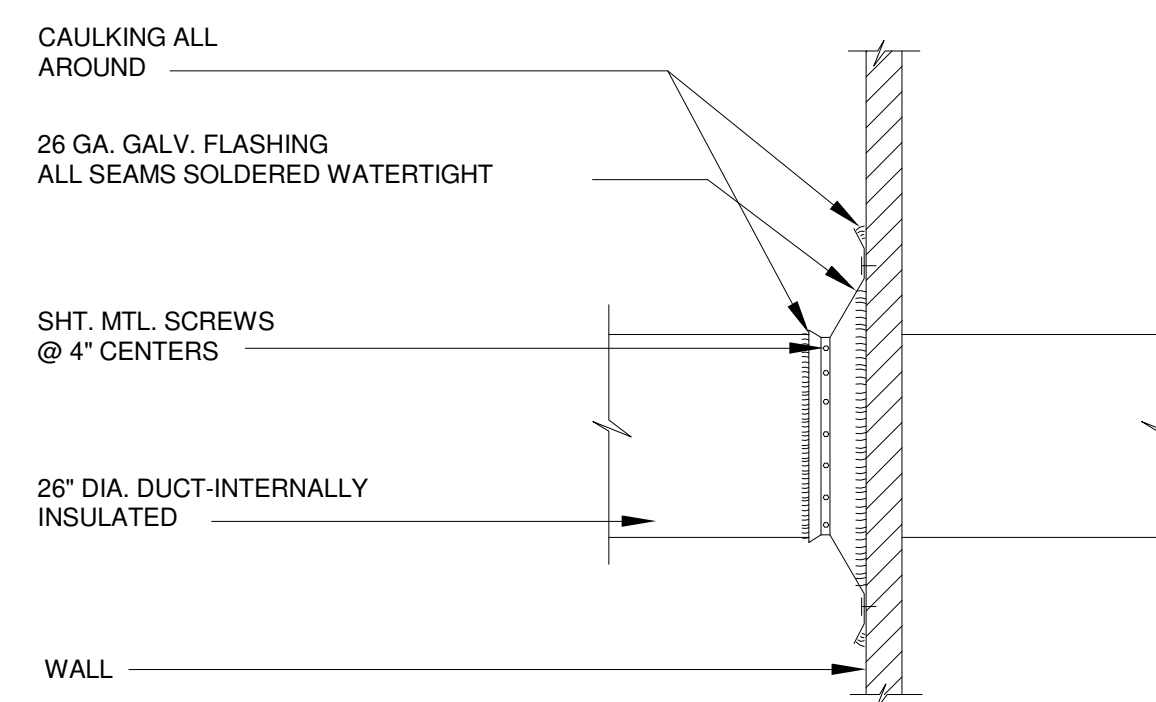


2
M102

CEILING DIFFUSER CONNECTION DETAIL

SCALE:

N.T.S.



4 WALL PENETRATION DETAIL

Number	Date	Description

Architect Seal:

01/15/2024

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DETAILS

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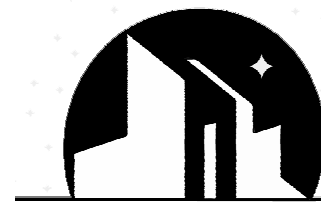
M102

JOSE A. BERNAL



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Number	Date	Description

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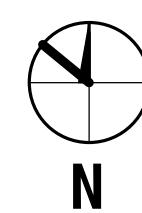
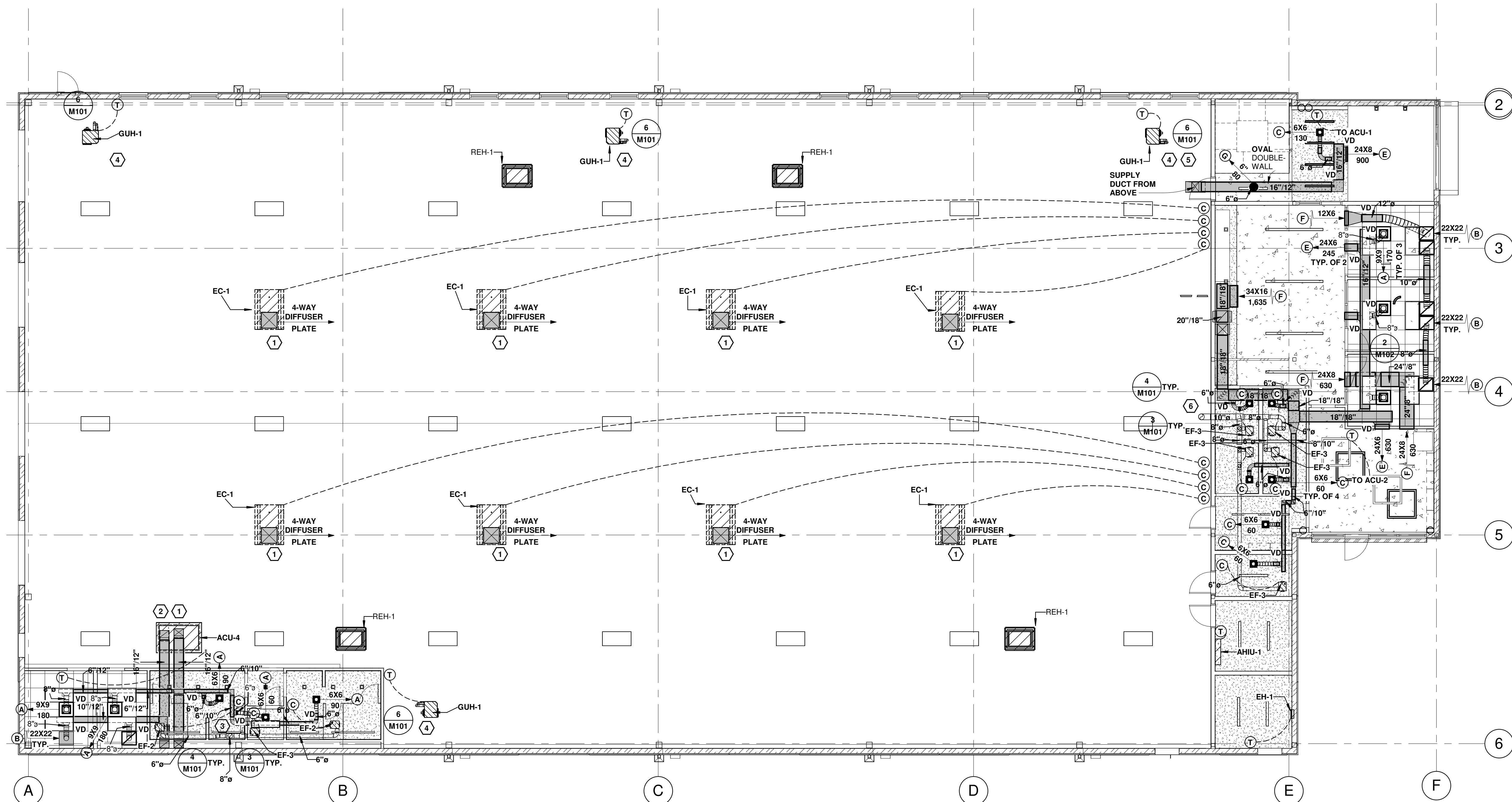
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1ST FLOOR MECHANICAL
PLAN

Sheet No.

M200

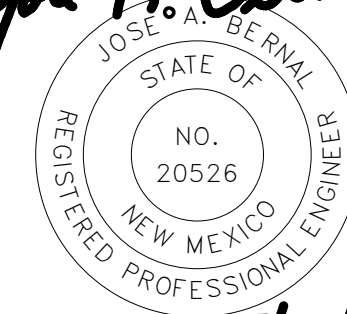


1ST FLOOR MECHANICAL PLAN

1/8" = 1'-0"

KEYED NOTES

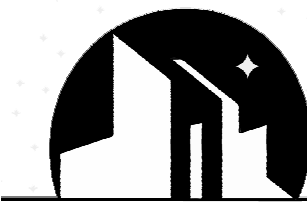
- 1 PROVIDE A FULL SIZED SUPPLY AIR PENETRATION THRU ROOF FROM NEW UNIT.
- 2 PROVIDE A FULL SIZE RETURN AIR PENETRATION THRU ROOF FROM NEW UNIT.
- 3 EXTEND 8" DIAMETER EXHAUST DUCT THRU ROOF TO GOOSE NECK W/INSECT SCREEN. EXHAUST DUCT TO BE PLACE 10 FEET AWAY FROM ROOF TO UNIT.
- 4 EXTEND A FULL SIZE COMBUSTION AIR DUCT AND FLUE FROM GAS UNIT HEATER THRU ROOF TO CONCENTRIC ADAPTER KIT.
- 5 CONCENTRIC VENT TO BE INSTALLED 10 FEET AWAY FROM THE ROOF TOP UNITS.
- 6 CONTRACTOR TO EXTEND 10" DIAMETER EXHAUST DUCT THRU ROOF TERMINATE IN GOOSENECK. EXHAUST DUCT TO BE PLACE 10 FEET AWAY FROM ROOF TO UNITS.

Jose A. Bernal

07/11/24





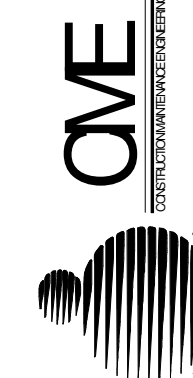


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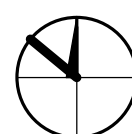
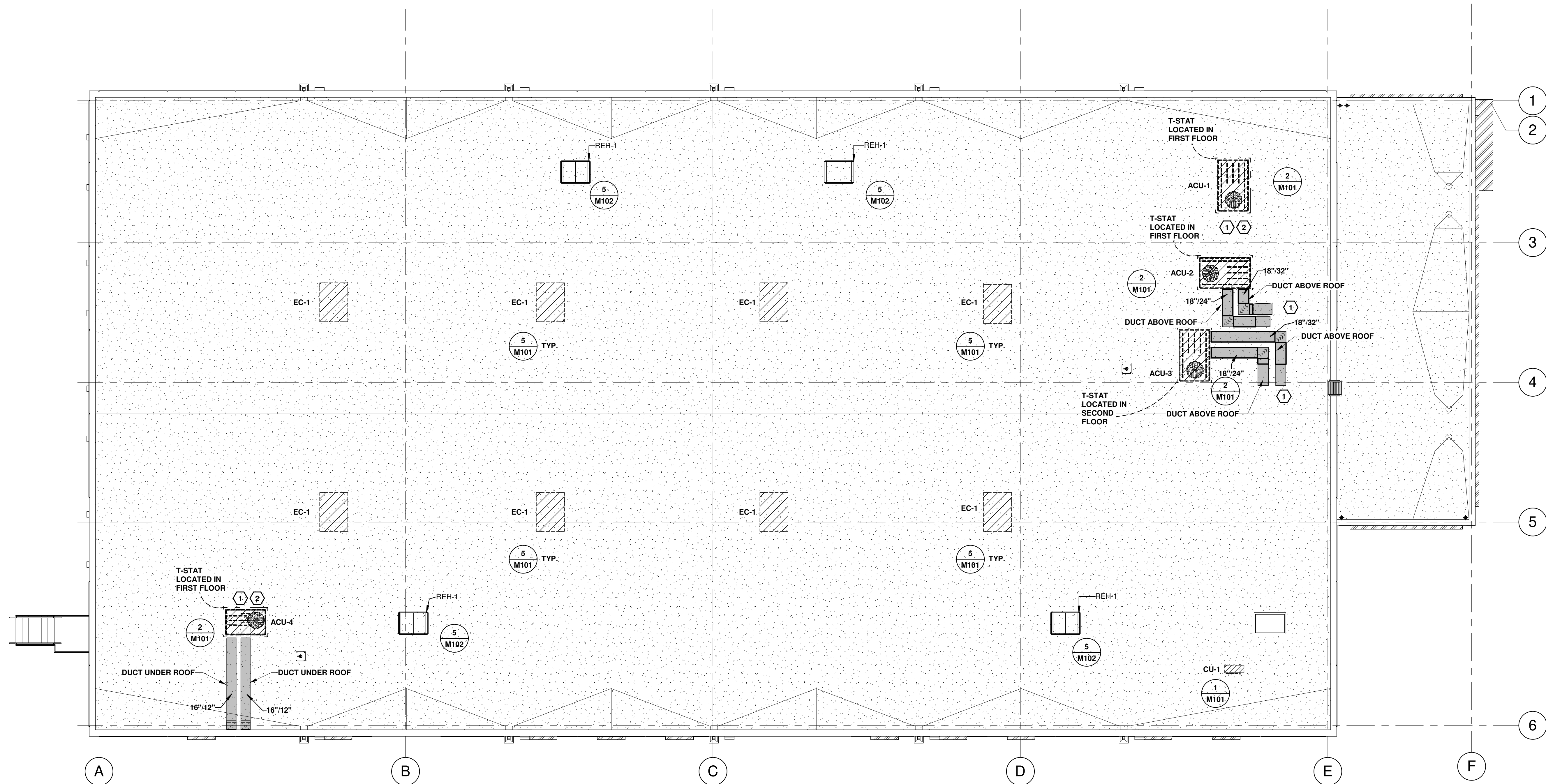
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Sheet Title:
MECHANICAL ROOF PLAN

Sheet No.

M300



N

MECHANICAL ROOF PLAN

1/8" = 1'-0"

KEYED NOTES

- 1 NEW SUPPLY AND RETURN DUCT TO BE EXPOSED ON ROOF. PROVIDE EXTERIOR DUCT BOARD INSULATION WITH ALUMINUM JACKETING.
- 2 PROVIDE A FULL SIZED SUPPLY AIR PENETRATION THRU ROOF FROM NEW UNIT.
- 3 PROVIDE A FULL SIZE RETURN AIR PENETRATION THRU ROOF FROM NEW UNIT.

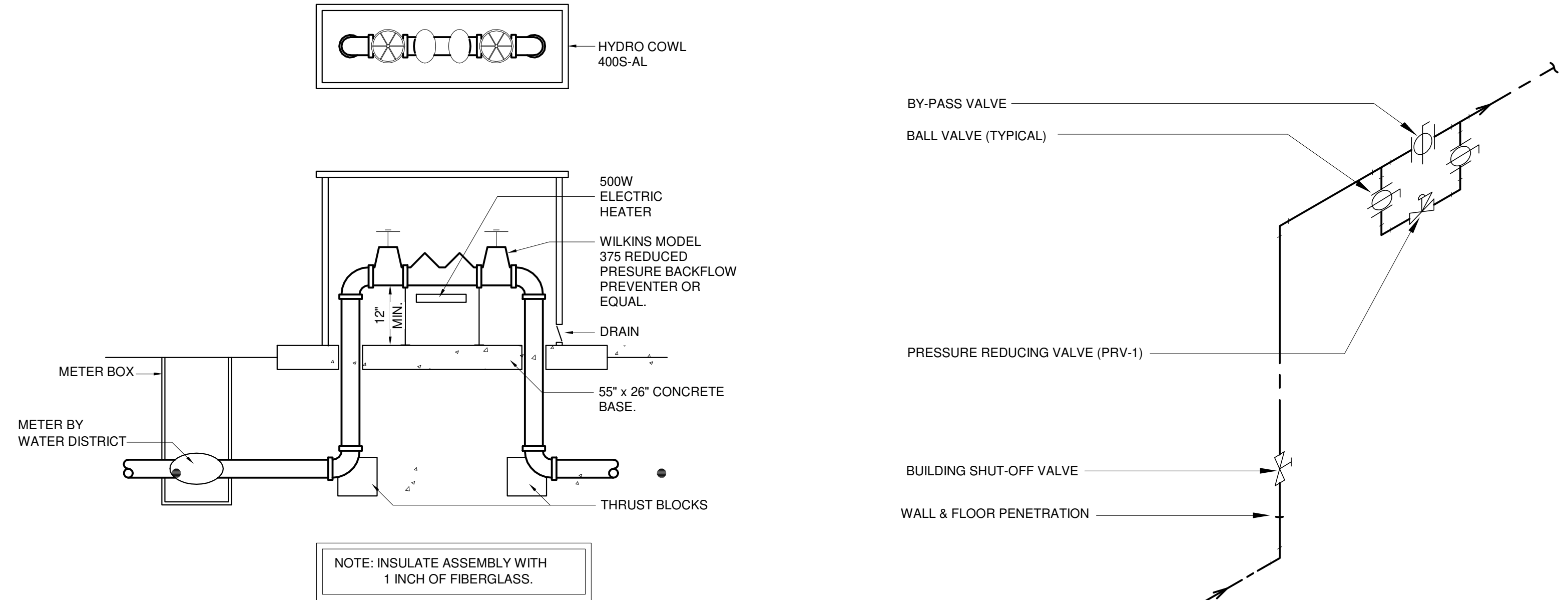
Jose A. Bernal

07/11/24

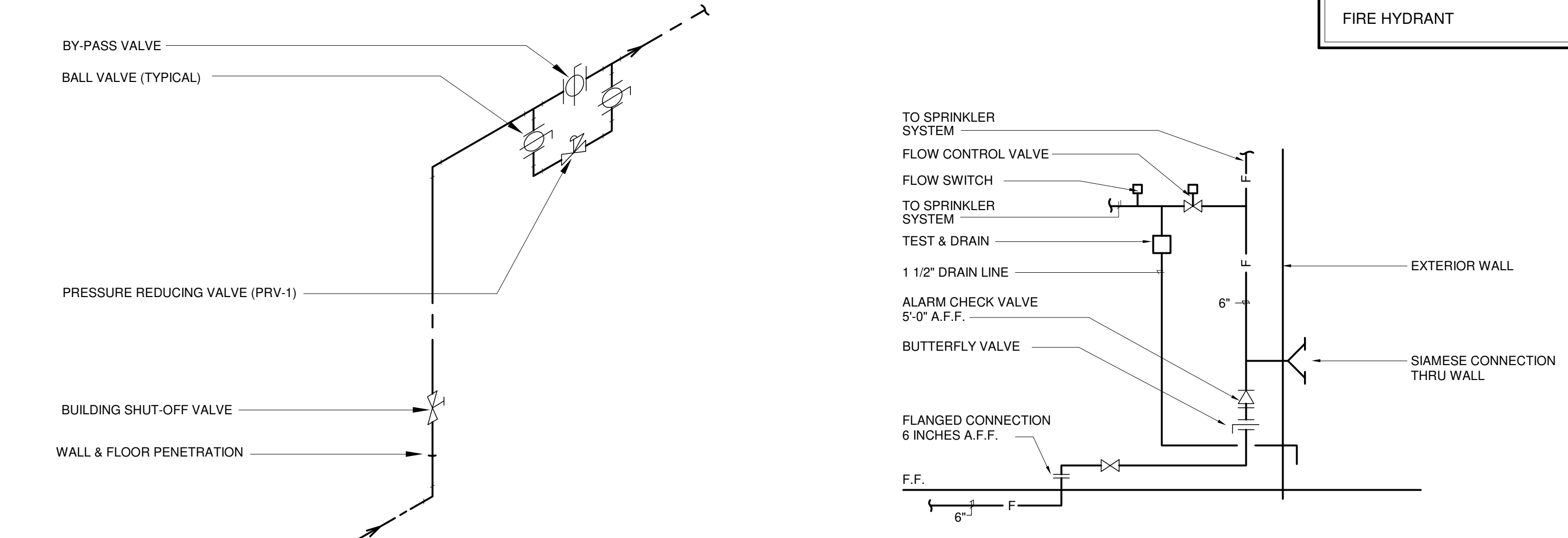


PLUMBING FIXTURE SCHEDULE										
MARK	MFGR.	NAME	MODEL	H	C	D	V	E	ACCESSORIES	
WC-1	AMERICAN STANDARD		3043.001	-	1"	3"	2"	-	W/ ZURN Z-6200-HET FLUSH VALVE, 1.28 GPF, ZURN Z-5965SS-EL (WHITE) SEAT.	
WC-1H	AMERICAN STANDARD		3043.001	-	1"	3"	2"	-	W/ ZURN Z-6200-HET FLUSH VALVE, 1.28 GPF, ZURN Z-5965SS-EL (WHITE) SEAT.	
U-1H	AMERICAN STANDARD		6590.503	-	3/4"	2"	1-1/2"	-	W/ ZURN Z-6003AV-ULF FLUSH VALVE, 0.125 GPF. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.	
L-1H	AMERICAN STANDARD		0355.012	1/2"	1/2"	2"	1-1/2"	-	ZURN Z86300-XL GFI FAUCET, 1.0 GPM, McGUIRE 155A DRAIN, DEARBORN BRASS 751 P-TRAP, T&S B-1342 ANGLE LOOSE KEY STOPS, SKAL GUARD, OFFSET LAV STRAINER, ZURN Z-1231 CONCEALED ARM CARRIER, W/TEMPERATURE MIXING VALVE, SEE ARCH. FOR MOUNTING HEIGHT.	
L-2H	ZURN		Z-5110	1/2"	1/2"	2"	1-1/2"	-	ZURN Z-81101 FAUCET, 5 GPM, McGUIRE 155A DRAIN, DEARBORN BRASS 751 P-TRAP, T & S B-1342 ANGLE LOOSE KEY STOPS, SKAL GUARD, SEE ARCH. DWGS. FOR MOUNTING HEIGHT. PROVIDE W/ THERMOSTATIC MIXING VALVE.	
S-1H	JUST	SL-ADA-1617-A-GR		1/2"	1/2"	2"	1-1/2"	-	W/ ZURN Z831B4-XL FAUCET, ANGLE STOPS, J-ADA-35 DRAIN, AND HANDY SHIELD, McGUIRE 8069 P-TRAP, ZW-3870XLT MIXING VALVE, NO BURST FLEX CONNECTORS.	
FS-1	ZURN		Z-1900	-	-	3"	2"	-	6" DEEP SUMP, 3/4 GRATE, ANTI-SPLASH INTERIOR DOME STRAINER, W/ ATP.	
FD-1	ZURN		ZN-415-B	-	-	3"	2"	-	C. I. BODY, 7"-, TYPE "B" STRAINER W/ ATP & TRAP GUARD.	
ATP	PPP		500	-	1/2"	-	-	-	INSTALL ON ALL FLOOR DRAINS, AND FLOOR SINKS.	
HB-1	WOODFORD		24P-1/2	-	1/2"	-	-	-	W/ VACUUM BREAKER, CHROME FINISH, LOOSE KEY HANDLE.	
HB-2	MAPA		MPH-24FP	-	1/2"	-	-	-	FREEZELESS ROOF HYDRANT WITH MOUNTING SYSTEM, PROVIDE WITH SHUT-OFF VALVE.	
MSB-1	ADVANCE TABCO		9-OP-44	1/2"	1/2"	3"	2"	-	ZURN Z-841L1 FAUCET, HOSE AND BRACKET, MOP HANGER, ATP, AND TRAP GUARD. STAINLESS STEEL MOP SINKSTAINLESS STEEL MOP SINK	
MSB-2	ADVANCE TABCO		9-OP-44-CDF	1/2"	1/2"	3"	2"	-	ZURN Z-841L1 FAUCET, HOSE AND BRACKET, MOP HANGER, ATP, AND TRAP GUARD. STAINLESS STEEL MOP SINKSTAINLESS STEEL MOP SINK	
WCO	ZURN		Z-1468	-	AS SHOWN		-			
CO	ZURN		Z-1400	-	AS SHOWN		-			
WHA-1	ZURN	SHOKTROL	Z-1700	-	-	-	-	-	INSTALL AS REQUIRED.	
EWC-1H	HALSEY TAYLOR	HTHB-HAC8BLPV-WF		-	1/2"	2"	1-1/2"	YES	9.0 GPH OF 50°F WATER @ 30°F AMBIENT, McGUIRE 155A DRAIN, DEARBORN BRASS, 751 P-TRAP, McGUIRE 2165 ANGLE STOPS, ZURN Z-1225 CARRIER, BOTTLE FILLER, 1/5 hp., 120V., 1"-, SEE ARCH. DWGS FOR MOUNTING HEIGHT	
WHD-1	ZURN		Z-1321	-	3/4"	-	-	-	CERAMIC DISC WALL HYDRANT, NON-FREEZE, ANTI-SIPHON, AUTO DRAINING.	
RD	ZURN		ZC-100-C-GD	-	AS SHOWN		-		C. I. BODY & C. I. DOME, STRAINER W/ EXTENSION	
DSN	ZURN		Z-199	-	AS SHOWN		-		NICKEL BRONZE BODY, THREADED INLET.	
OF	ZURN		ZC-100-C-GD-W2	-	AS SHOWN		-		C. I. BODY & C. I. DOME, STRAINER WITH EXTENSION AND OVERFLOW.	
BFP-1	WILKINS		375XL	-	AS SHOWN		YES		REDUCED PRESSURE BACKFLOW PREVENTER, W/ STRAINER, 500W HEATER 120V	
BFP-2	WILKINS		375DA	-	AS SHOWN		YES		REDUCED PRESSURE BACKFLOW PREVENTER, 500W HEATER 120V, DETECTOR ASSEMBLY	

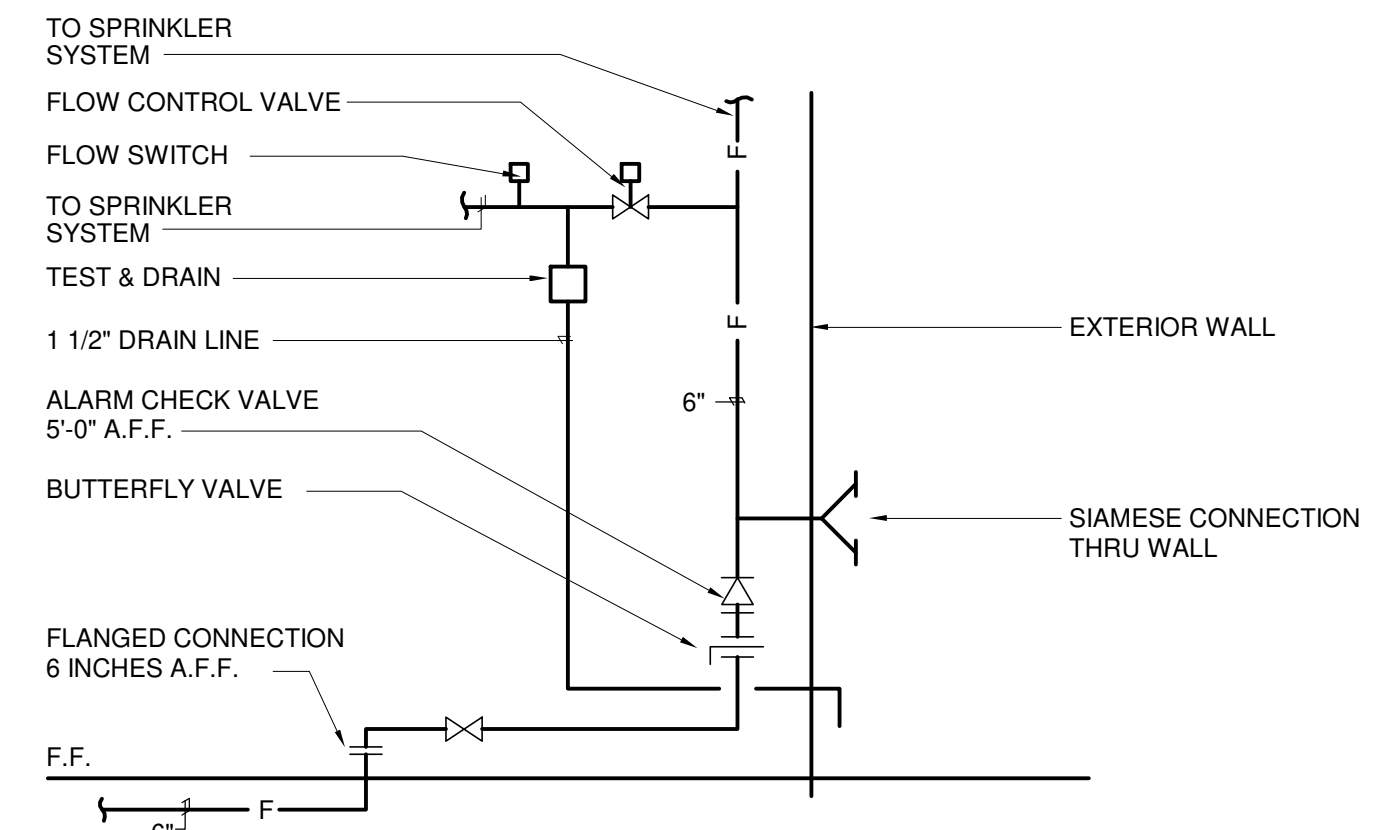
WATER HEATER SCHEDULE						
MARK	MFGR.	MODEL	INPUT MBH	RECOVERY GPH @80° Δ T	CAPACITY GAL.	REMARKS
WH-1	A.O. SMITH	DEL- 10	3 KW	11	10	WITH EXPANSION TANK. 208V, THREE PHASE.
WH-2	A.O. SMITH	DEL-20	4.5 KW	21	20	WITH EXPANSION TANK. 208, THREE PHASE. WITH RECIRCULATING PUMP.



1 BACKFLOW PREVENTER DETAIL
P101 SCALE: N.T.S.



2 INCOMING WATER LINE DETAIL
P101 SCALE: NTS



3 FIRE LINE RISER DETAIL
P101 SCALE: N.T.S.

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES, AND SITE CONDITIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO PLUMBING UTILITIES INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEAN-OUT PADS, SERVICE VALVES AND BOXES, SERVICE LINES, TESTING, CLEANING, AND STERILIZING.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY ALL EXISTING CONDITIONS. INCLUDE IN BID THE RELOCATION OF ALL EXISTING UTILITIES THAT WILL OBSTRUCT NEW CONSTRUCTION. INCLUDE IN BID ALL DEVELOPMENT FEES, DEPOSITS, MEASURING DEVICE FEES, AND ALL OTHER FEES RELATED TO THE ESTABLISHMENT OF UTILITY SERVICES FOR THE NEW STRUCTURE. OWNER SHALL PAY FEES ASSOCIATED WITH WATER AND SEWER UTILITY CONNECTIONS, SEE GENERAL CONDITIONS. ALL OTHER UTILITY FEES ARE BY CONTRACTOR.
- PROVIDE DIELECTRIC INSULATION FOR COPPER PIPE ANYWHERE IT CONTACTS DISSIMILAR METAL. THIS INCLUDES THE WATER HEATER CONNECTIONS.
- ALL PLUMBING FIXTURES SHALL MEET AND BE INSTALLED AT DIMENSIONS REQUIRED BY TEXAS ACCESSIBILITY STANDARDS FOR HANDICAPPED PERSONS.
- ALL SEWER VENTS THRU ROOF (VTR) SHALL BE NO CLOSER THAN 5 FT. TO EDGE OF ROOF AND A MINIMUM OF 10 FT. FROM ANY AIR INTAKE.
- ANY PLASTIC PIPING LOCATED IN A RETURN CEILING SPACE OR PLENUM SHALL BE ENCLOSED IN SHEETROCK OR WRAPPED WITH 3M FIREMASTER BLANKET OR UL910 STANDARD COVER.
- TRAP PRIMERS AND TRAP GUARDS SHALL BE INSTALLED IN ALL FLOOR DRAINS, TRENCH DRAINS, FLOOR SINGS, AND MSB.. ALL TRAP PRIMERS SHALL BE INSTALLED WITH ISOLATION VALVE(S) AND ACCESS DOOR(S).
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR ALL CONCRETE FLOOR CUTS.
- THE PLUMBING CONTRACTOR SHALL FIELD VERIFY SANITARY LINE INVERT ELEVATIONS, LOCATIONS & SIZES, PRIOR TO INSTALLING ANY UNDERGROUND PIPING.
- PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED
- THE PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL HANGERS, SUPPORTS & ACCESSORIES AS REQUIRED BY ALL CODES.
- ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER & SHALL MEET OR EXCEED ALL CODES HAVING JURISDICTION.
- THE PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHOCK ABSORBERS ON ALL WATER PIPING AS REQUIRED.
- THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO FIXTURES & EQUIPMENT PROVIDED BY OTHERS. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THESE ITEMS WITH THE VENDOR REPRESENTATIVE.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE TO MAKE ALL FINAL WATER CONNECTIONS TO FIXTURES, SEE FUTURE SCHEDULES. PROVIDE ANGLE STOPS & AND NO BURST FLEX CONNECTIONS TO ALL FIXTURES.
- THE PLUMBING CONTRACTOR MUST FURNISH AN AS-BUILT SET OF DRAWINGS SHOWING THE EXACT LOCATION/ELEVATION OF ALL UNDERGROUND PIPING TO THE OWNER, AT COMPLETION OF THE PROJECT.
- ALL WATER & VENT PIPING SHOWN IS TO BE CONCEALED IN WALLS UNLESS NOTED OTHERWISE.
- ALL EXPOSED GAS LINE SHALL BE PAINTED TO MATCH.
- PLUMBING CONTRACTOR TO COORDINATE ROUGH-IN WITH STRUCTURAL FOUNDATION DRAWINGS AND ADJUST AS NECESSARY.
- PRIVATE FIRE HYDRANT TO BE INSTALLED BY FIRE SPRINKLER CONTRACTOR.

LEGEND

	NEW	EXISTING
SEWER (BURIED)		
VENT LINE		
COLD WATER LINE		
HOT WATER LINE		
RECIRCULATING HOT WATER LINE		
MEDIUM PRESSURE GAS LINE		
GAS LINE		
DRAIN LINE		
CONDENSATE DRAIN		
ROOF DRAIN LEADER		
OVER FLOW		
FIRE LINE		
TEMPERED WATER		
COMPRESSED AIR		
MEDICAL AIR		
FILTERED WATER		
DIONIZED WATER		
MECHANICAL EQUIPMENT ON ROOF		
WATER CLOSET	WC	WC-E
WATER CLOSET (HANDICAP)	WC-H	WC-HE
URINAL	U	EU
URINAL (HANDICAPPED)	U-H	EU-H
LAVATORY	L	EL
LAVATORY (HANDICAPPED)	L-H	EL-H
SINK	S	ES
ELECTRIC WATER COOLER	EWC	EWC-E
ELECTRIC WATER COOLER (HANDICAP)	EWC-H	EWC-H
MOP SERVICE BASIN	MSB	EMSB
FLOOR DRAIN	FD	EFD
FLOOR SINK	FS	EFS
WALL CLEANOUT	WCO	EWCO
CLEANOUT	CO	ECO
HOSE BIBB	HB	EHB
WALL HYDRANT	WHD	EWHD
DRINKING FOUNTAIN	DF	EDF
WATER HEATER	WH	EWH
RECIRCULATING PUMP	RP	ERP
PUMP	P	EP
PRESSURE REDUCING VALVE	PRV	EPRV
ROOF DRAIN	RD	ERD
OVERFLOW	OF	EOF
BACKFLOW PREVENTER	BFP	EBFP
DOWNSPOUT NOZZLE	DSN	EDSN
AIR CONDITIONING UNIT	ACU	EACU
AUTOMATIC TRAP PRIMER	ATP	EATP
ACCESS DOOR	AD	EAD
WATER HAMMER ARRESTOR	WHA	EWHA
TEMPERATURE MIXING VALVE	TMV	ETMV
SHOWER	SHR	ESHR
SHOWER (HANDICAPPED)	SHR-H	ESHR-H
VENT THRU ROOF	VTR	EVTR
LAUNDRY BOX	LB	ELB
NEW WORK INTERFACE		
KEYED SYMBOL		
FIRE HYDRANT	FH	EFH

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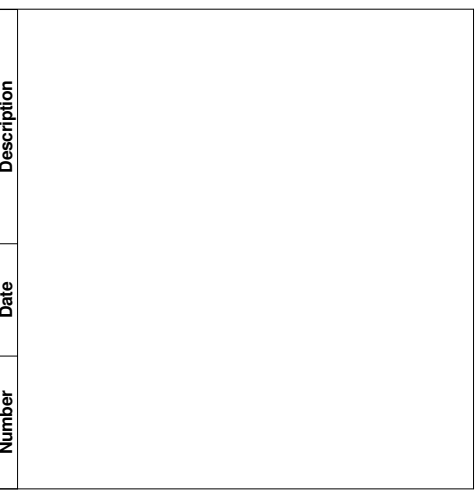
E-mail: luminadesignstudio1@gmail.com

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for:

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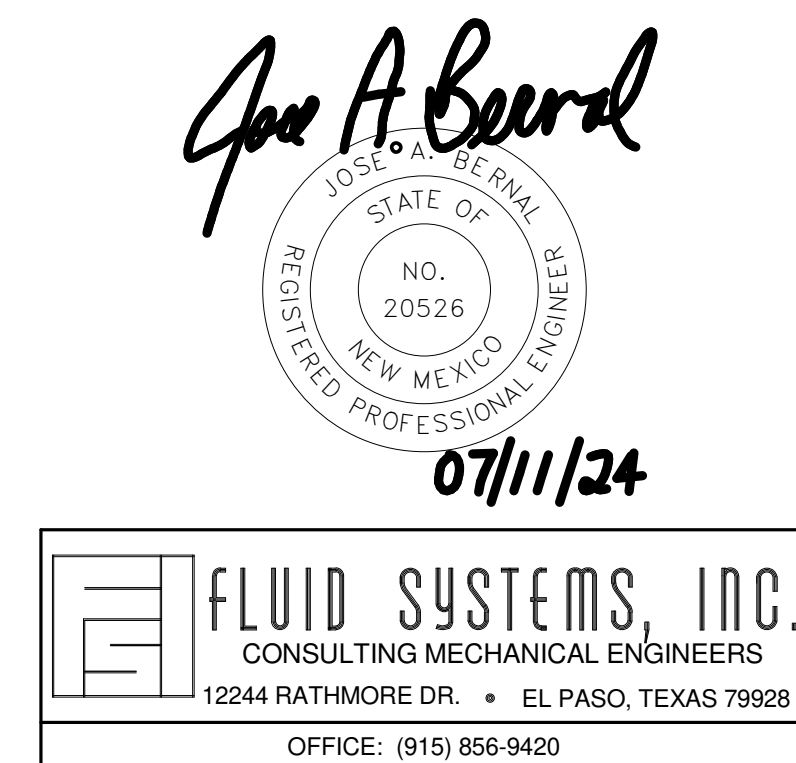
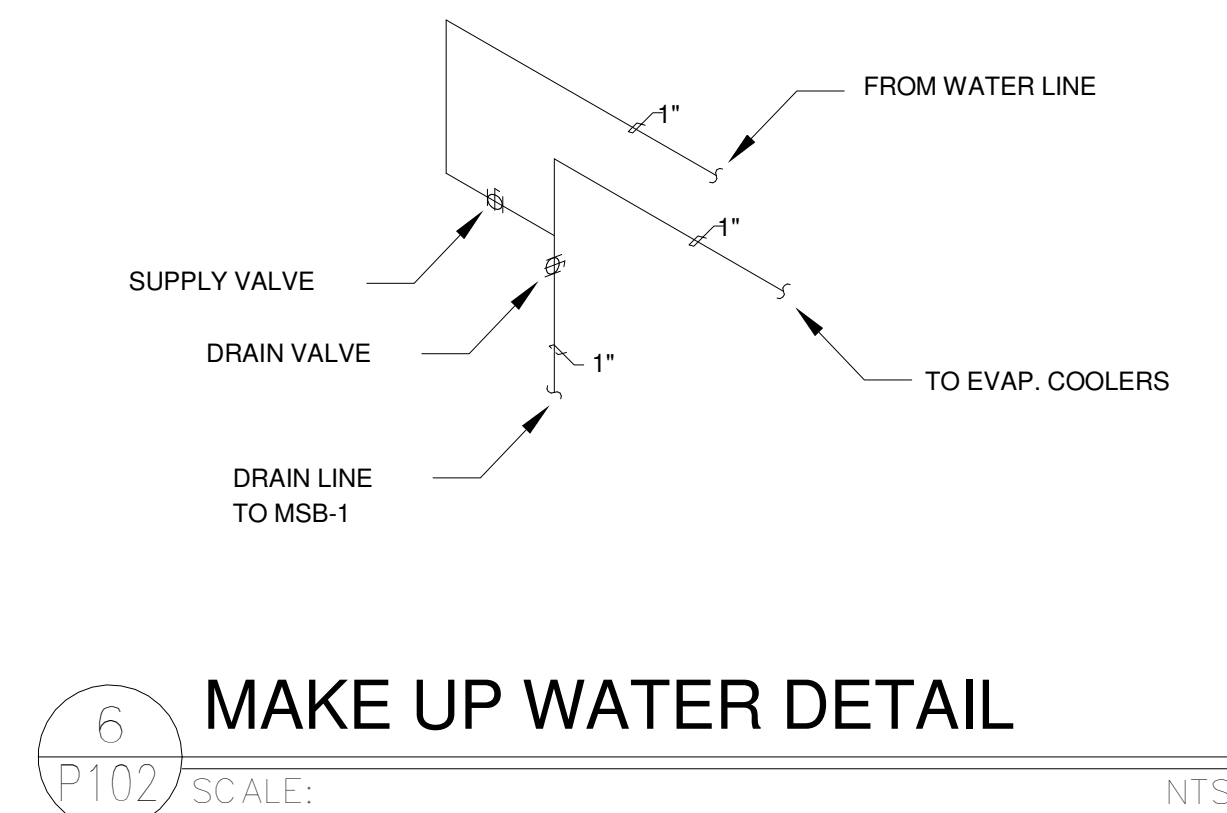
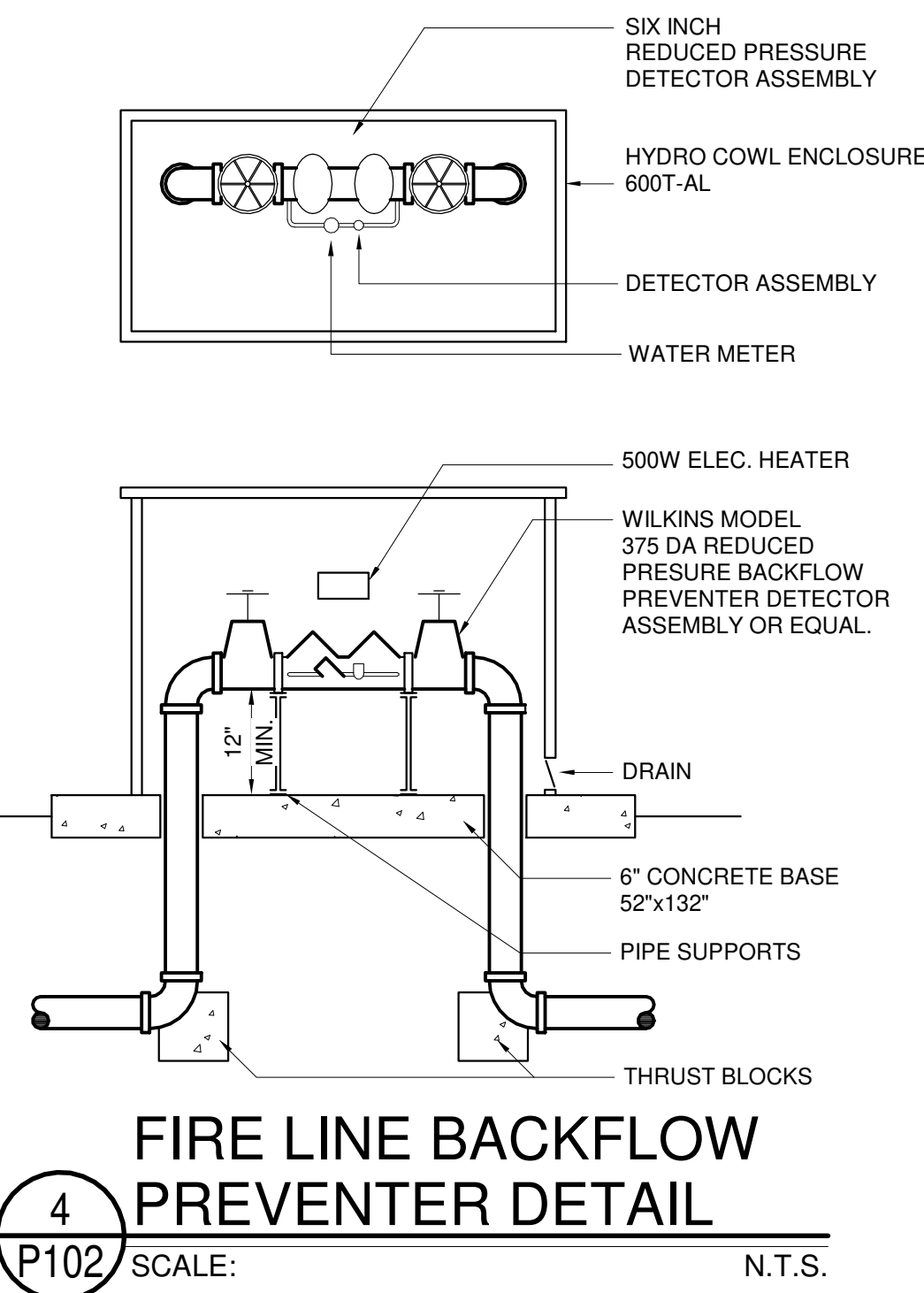
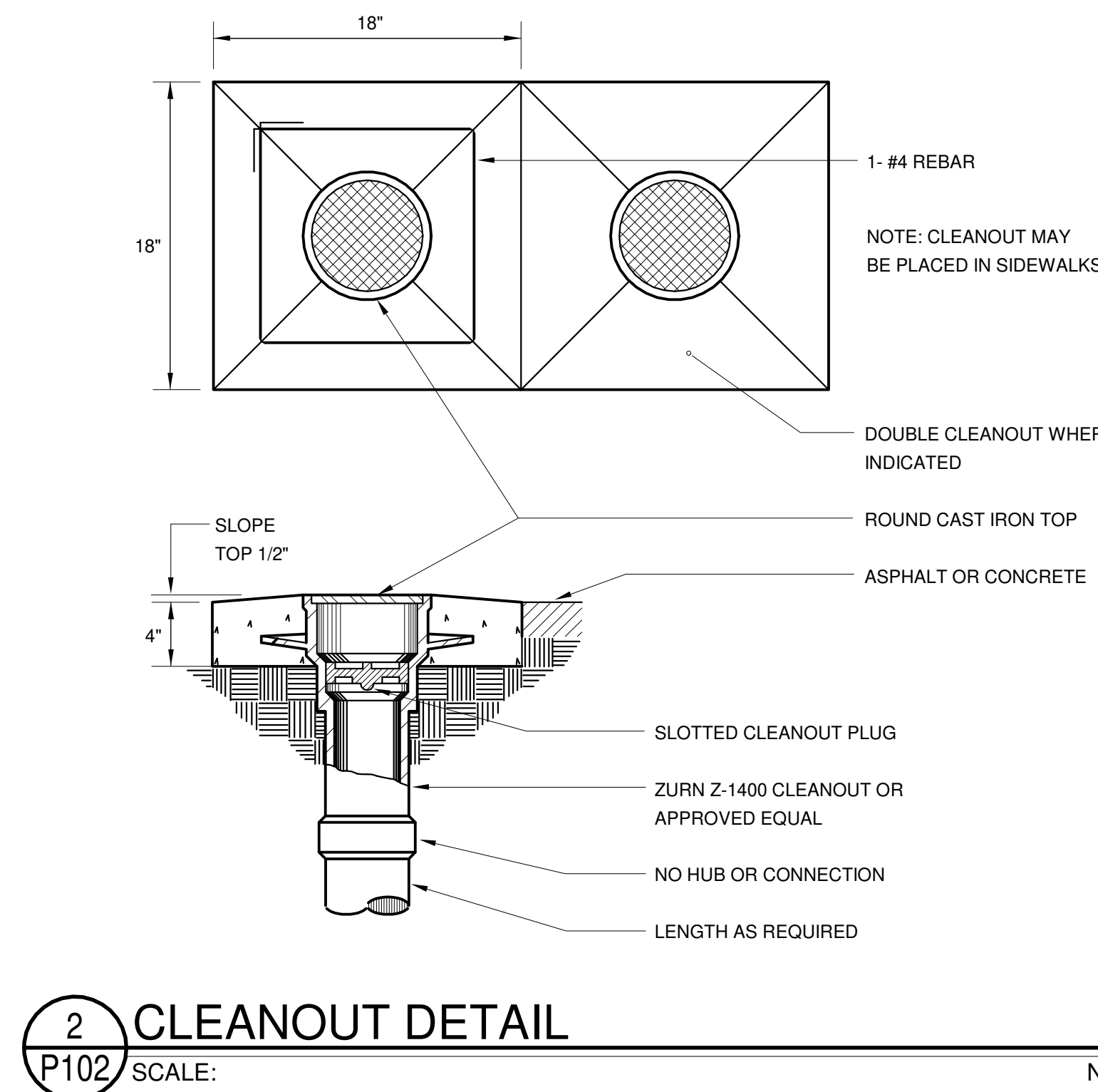
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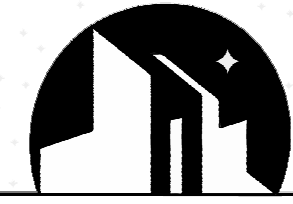
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Revised: --
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Sheet Title: LEGEND, NOTES, SCHEDULES AND DETAILS

Sheet No.

P101





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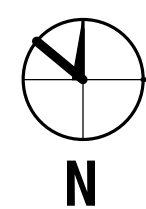
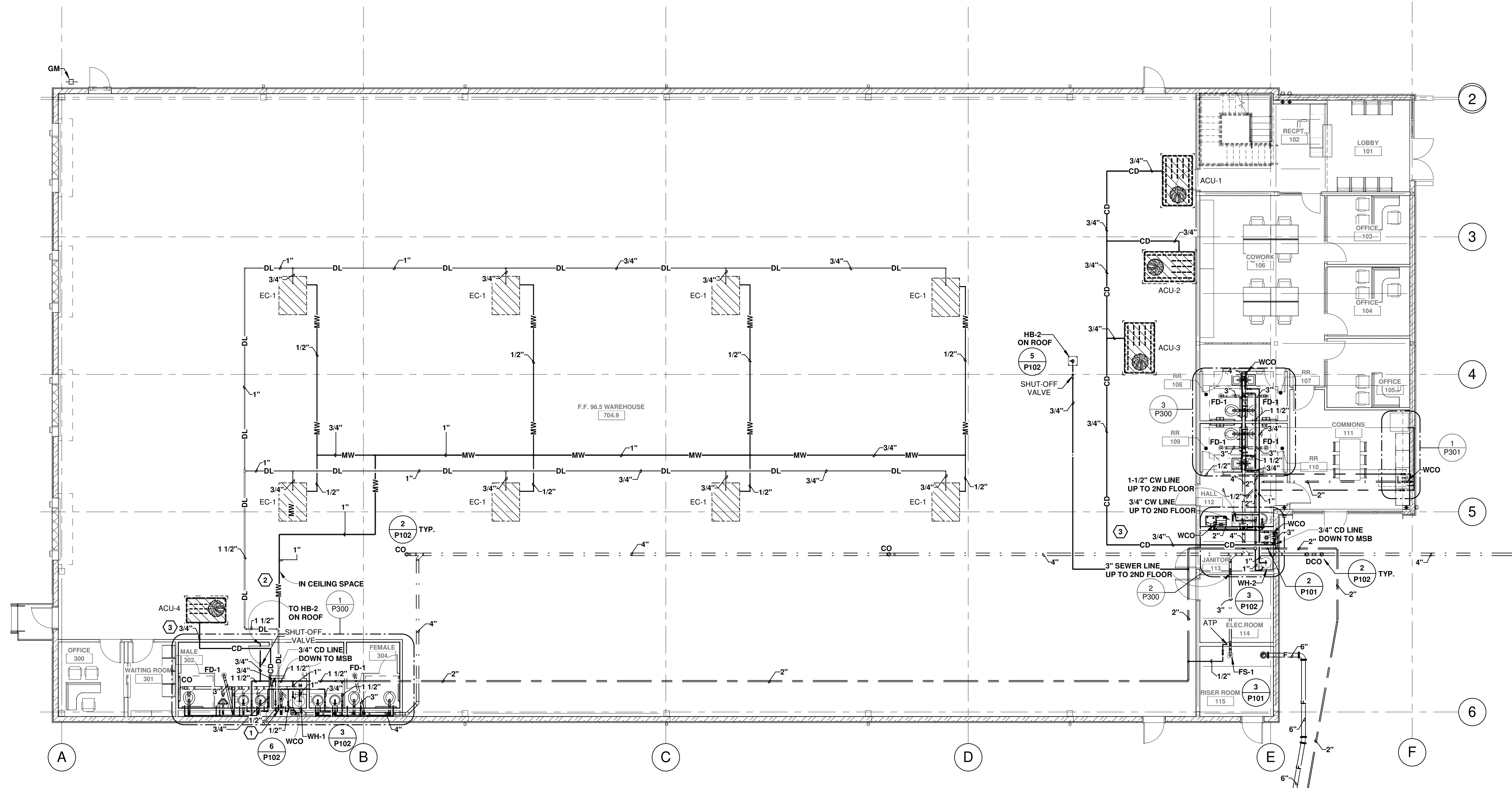
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1ST FLOOR PLUMBING PLAN

Sheet No.

P200



1ST FLOOR PLUMBING PLAN

1/8" = 1'-0"

KEYED NOTES

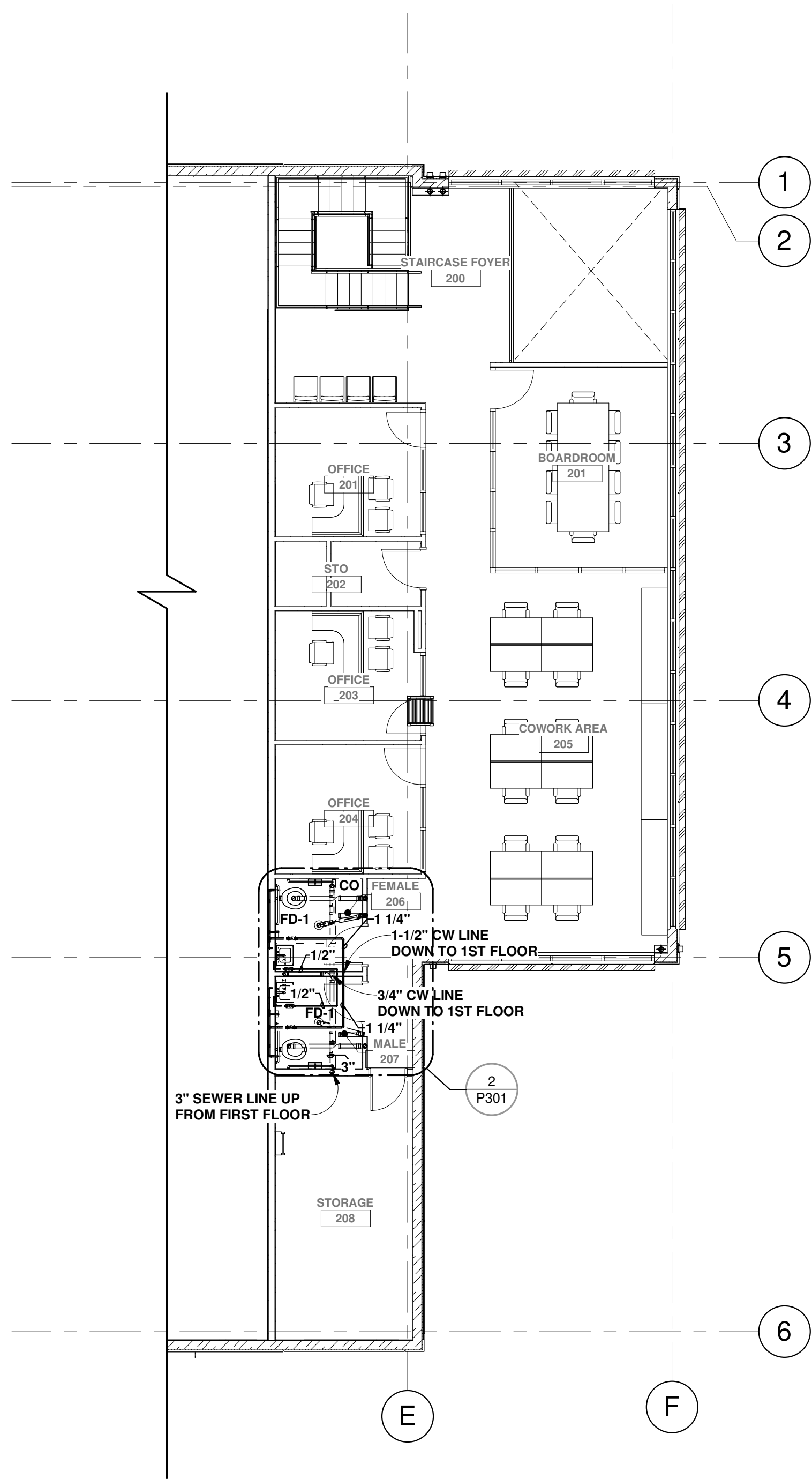
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- 2 EXTEND MAKE UP WATER LINE TO ALL EC-1.
- 3 EXTEND CD LINE TO MSB-1.

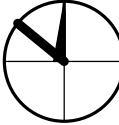
Jose A. Bernal



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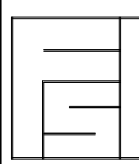




 **2ND FLOOR PLUMBING PLAN**
1/8" = 1'-0"



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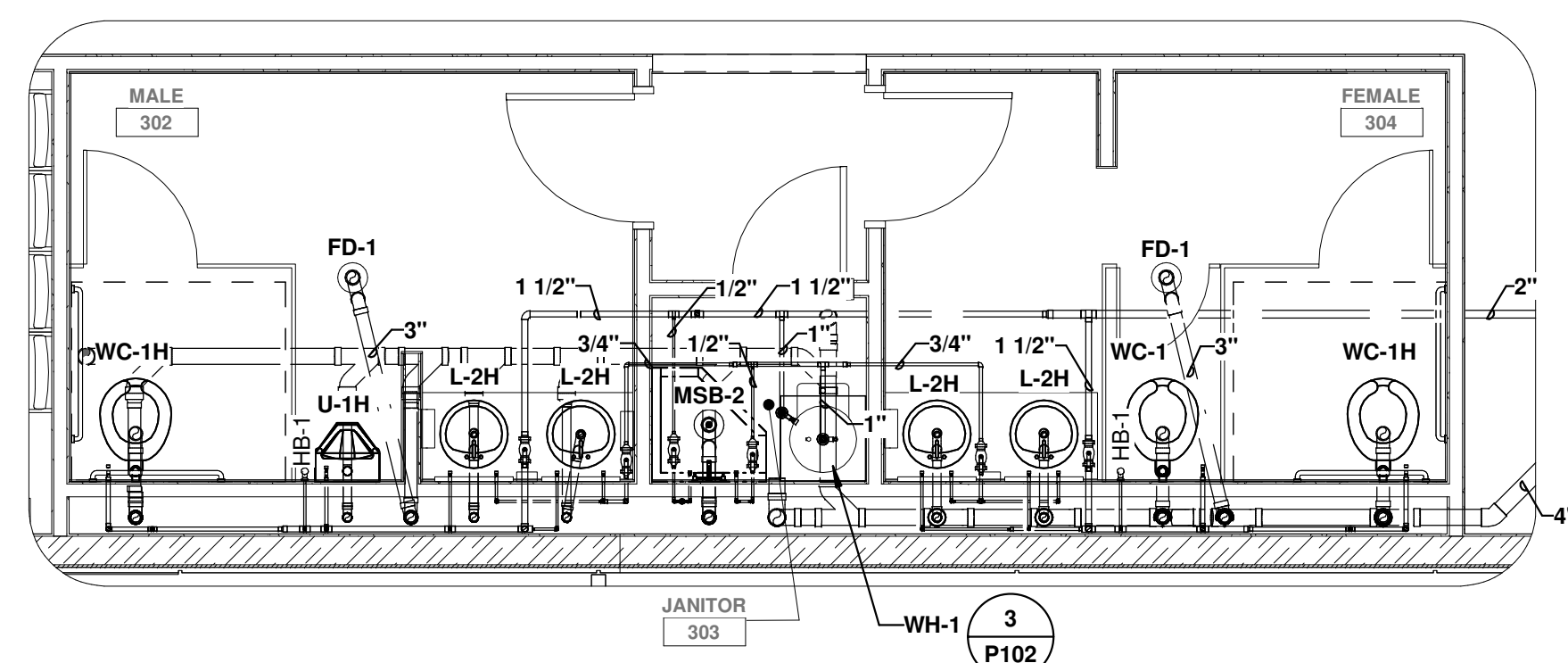
ICOMSA, LLC
8024 Highway 180 Santa Teresa, NM 88008
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info@icomsa.com

Number	Date	Description

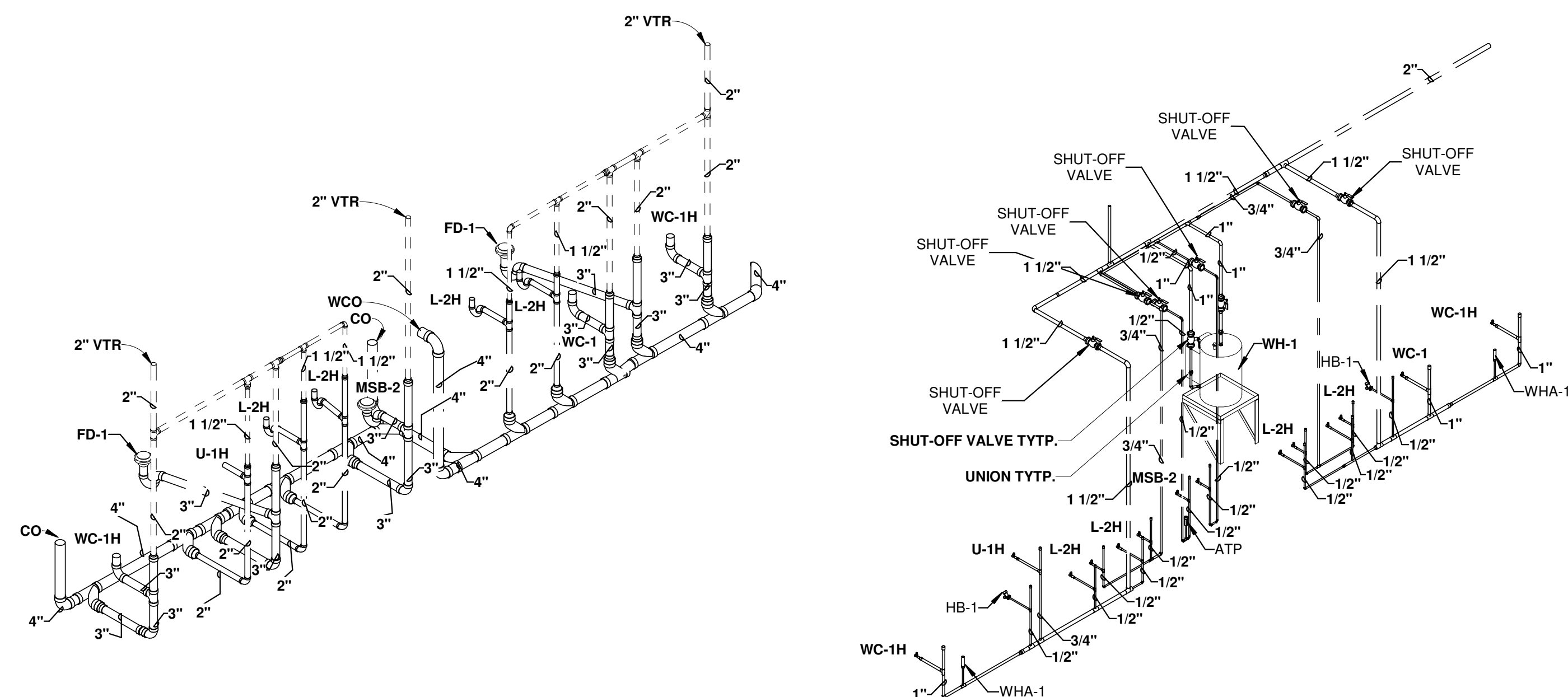
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Sheet No.	

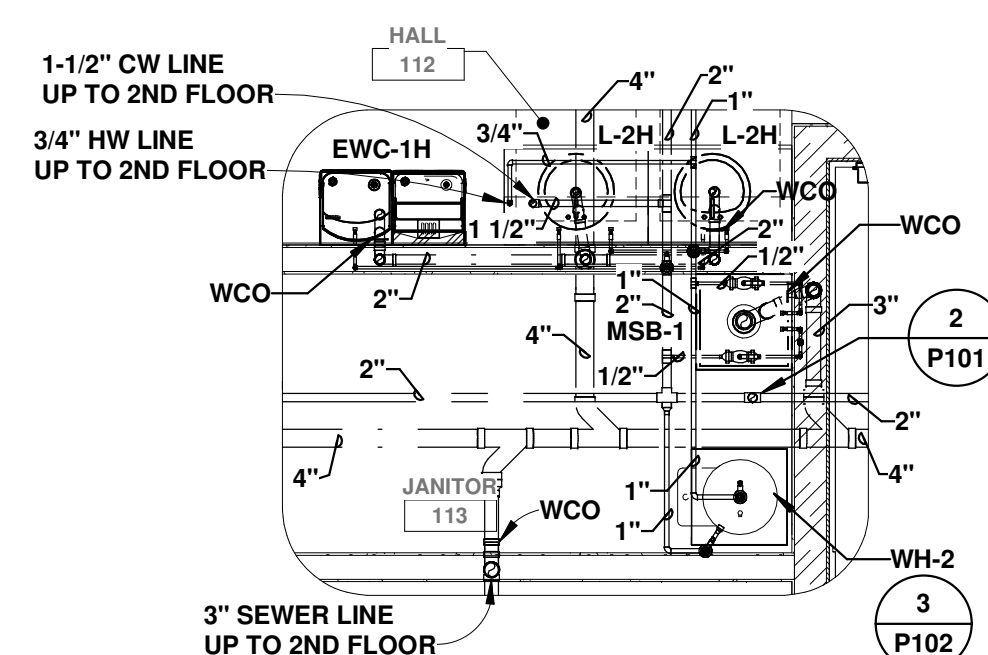
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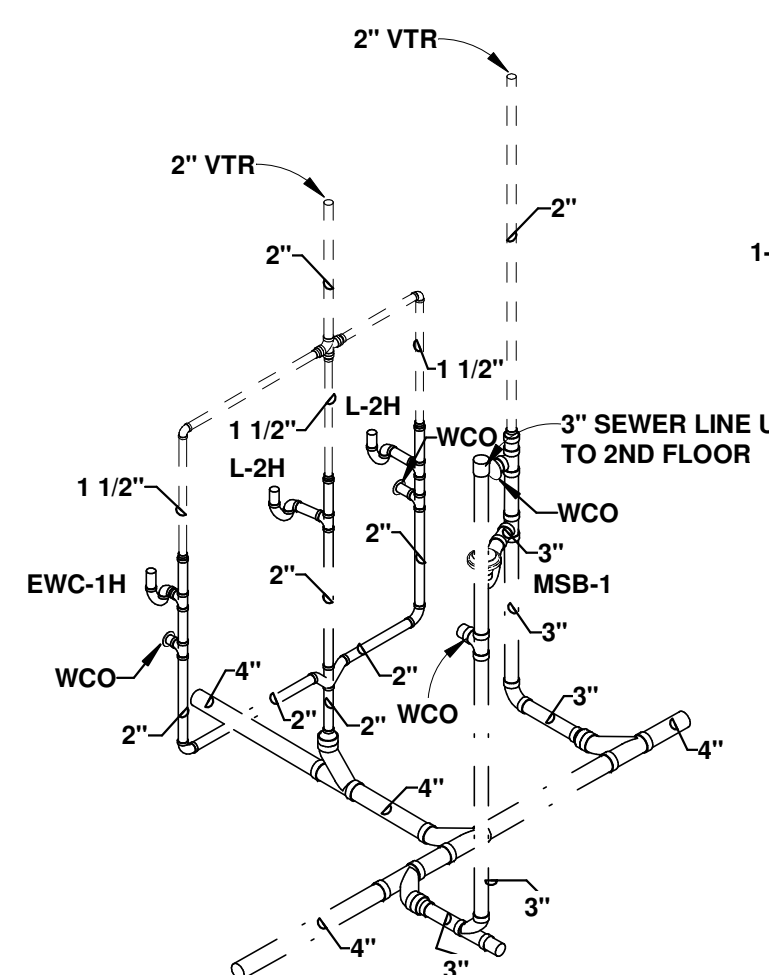
ENLARGED PLUMBING PLAN
RMS. 302 TO 304
1/4" = 1'-0"



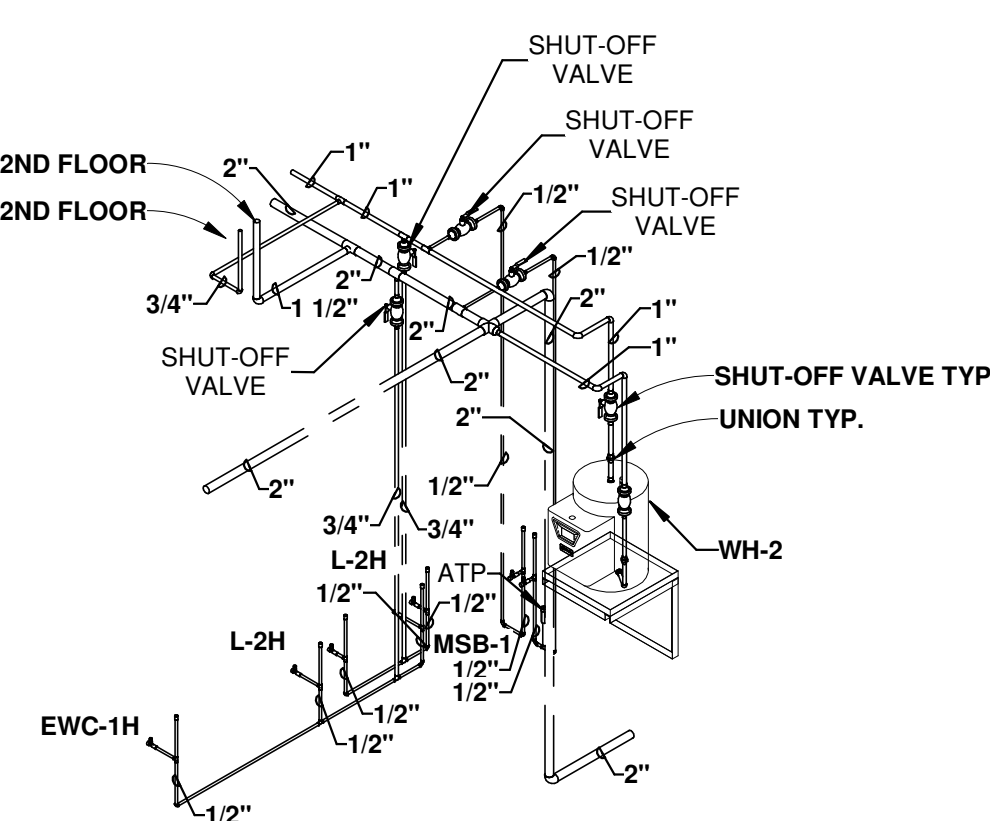
WASTE RISER DIAGRAM
RMS. 302 TO 304



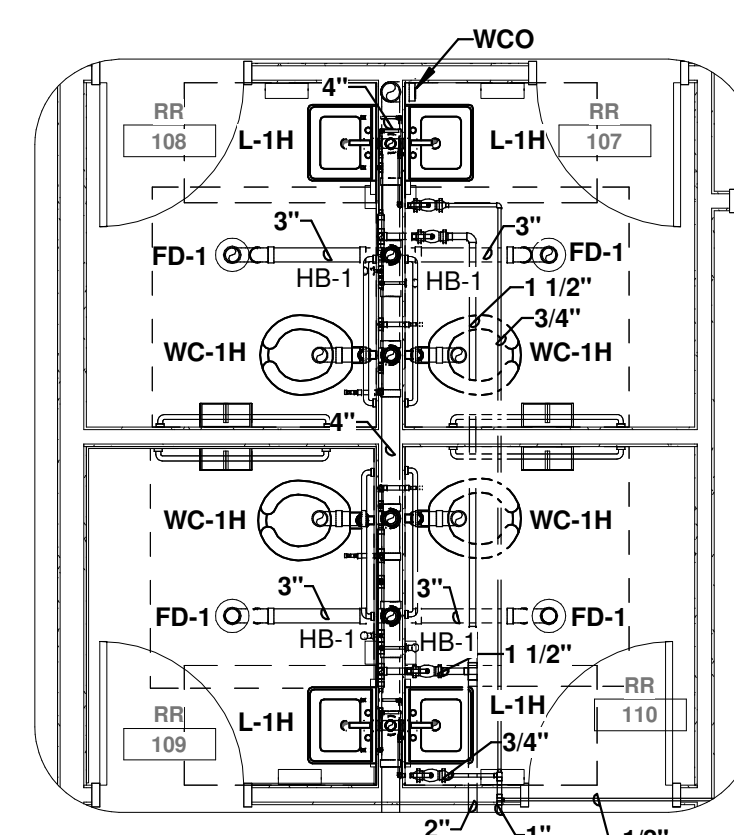
ENLARGED PLUMBING PLAN
RMS. 112 & 113
1/4" = 1'-0"



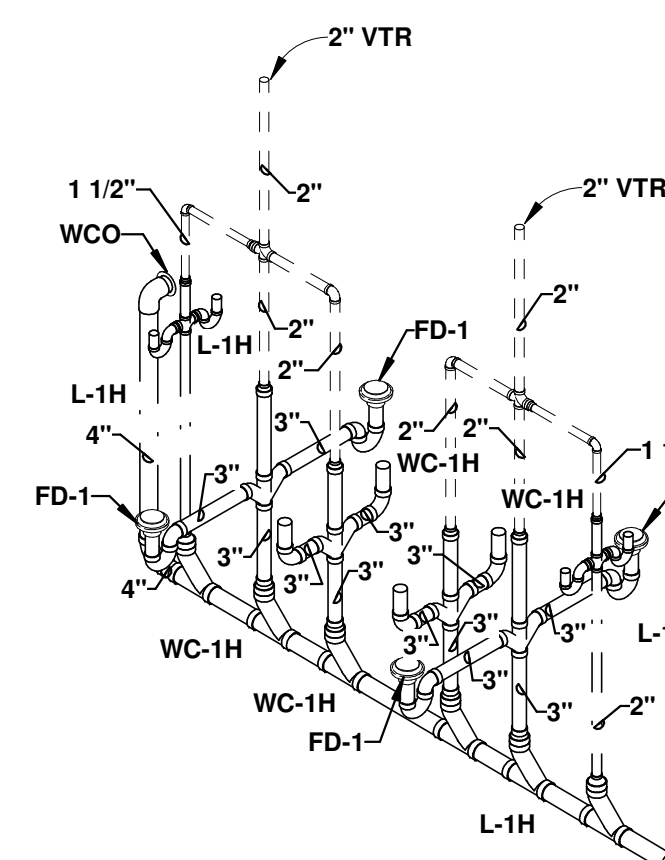
WASTE RISER DIAGRAM
RMS. 112 & 113
2
P300 NTS



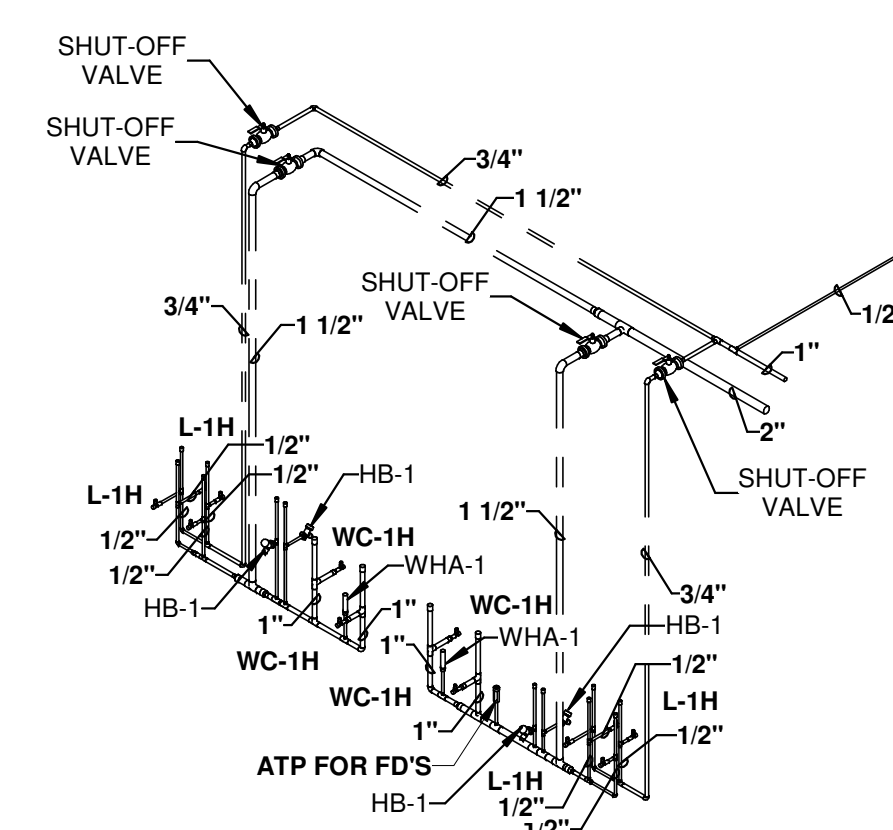
WATER RISER DIAGRAM
RMS. 112 & 113



ENLARGED PLUMBING PLAN
RMS. 107 TO 110
1/4" = 1'-0"



WASTE RISER DIAGRAM
RMS. 107 TO 110



WATER RISER DIAGRAM
RMS. 107 TO 110

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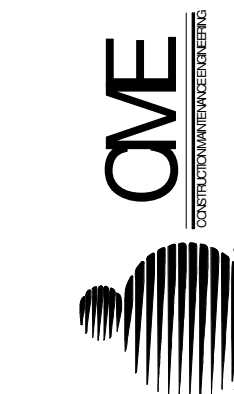
E-mail: luminadesignstudio1@gmail.com

Warehouse & Office

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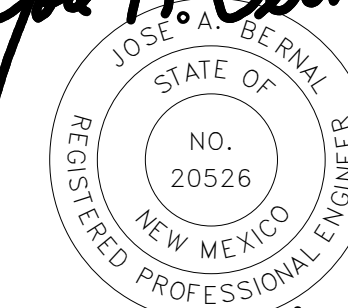
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Project No.	2024.028
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Checked By:	JAB
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**ENLARGED PLUMBING
PLANS & RISERS**

Sheet No. _____

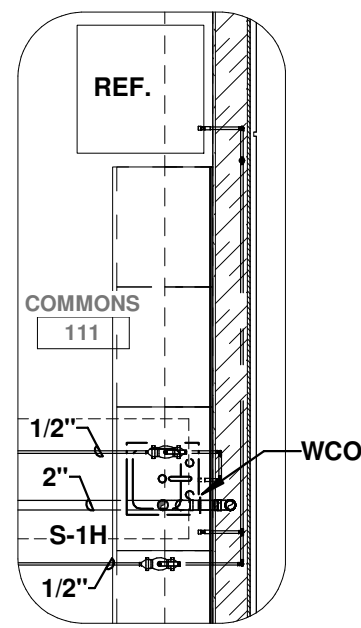
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STATE OF

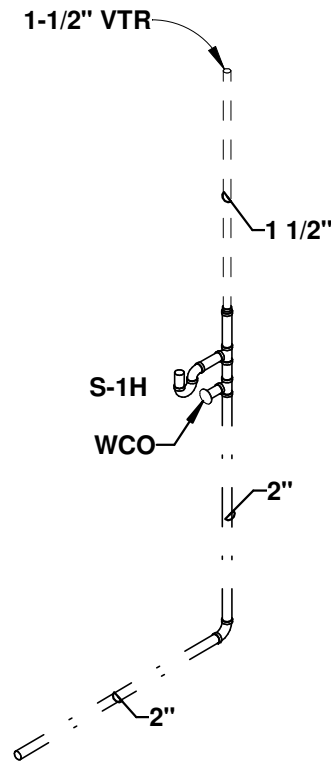


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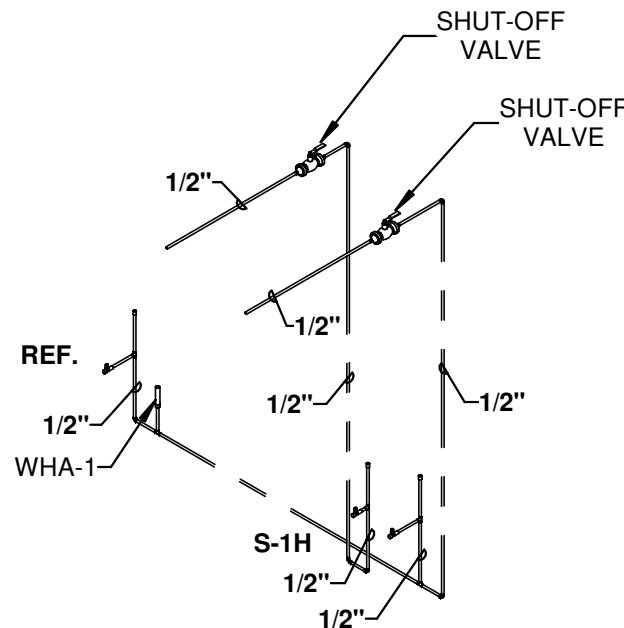




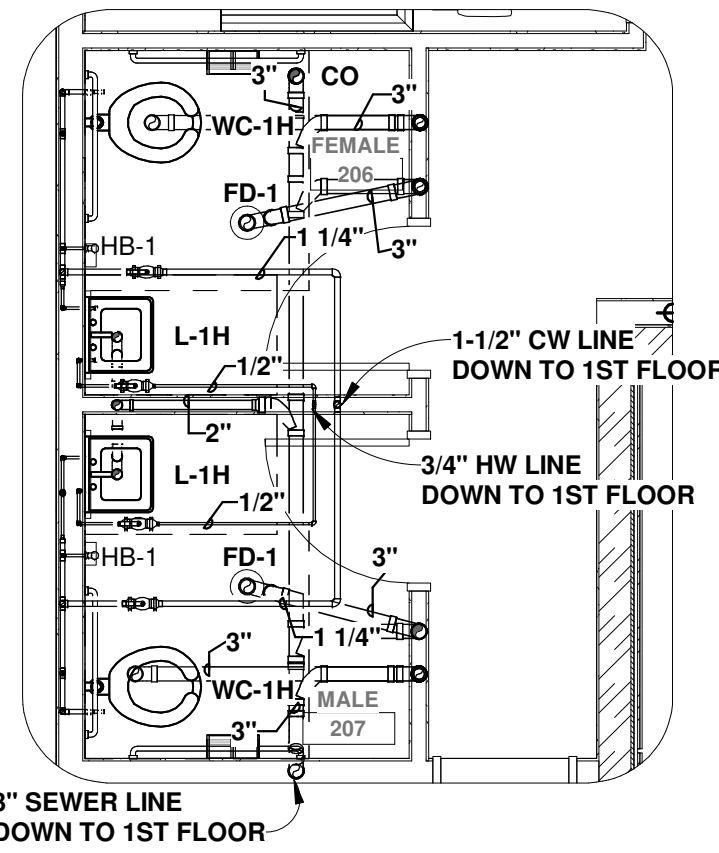
1 ENLARGED PLUMBING PLAN RM. 111
P301 1/4" = 1'-0"



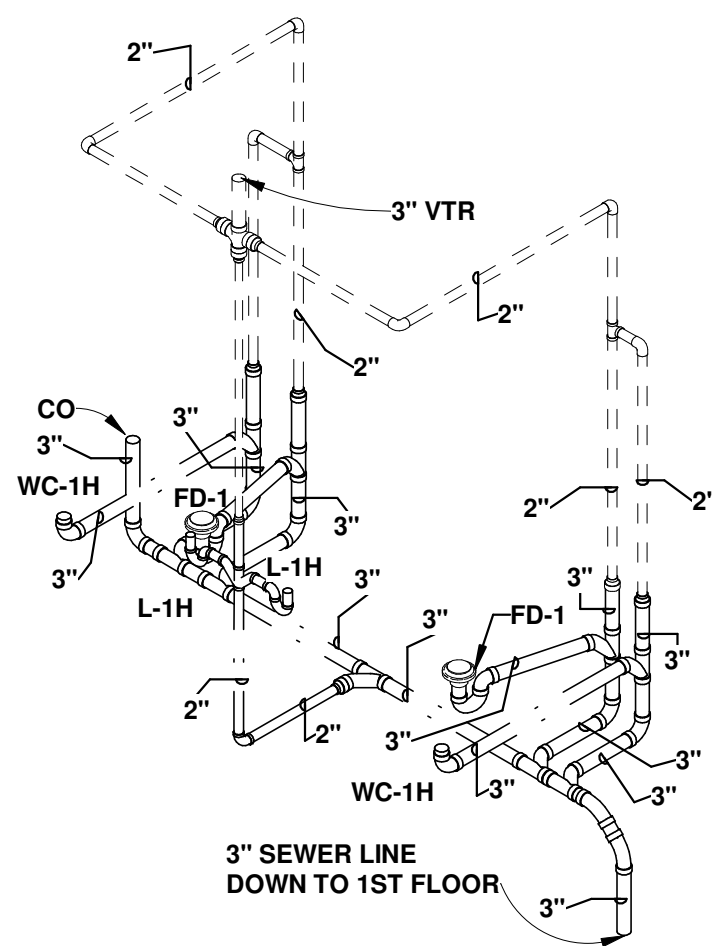
1 WASTE RISER DIAGRAM
P301 RM. 111
NTS



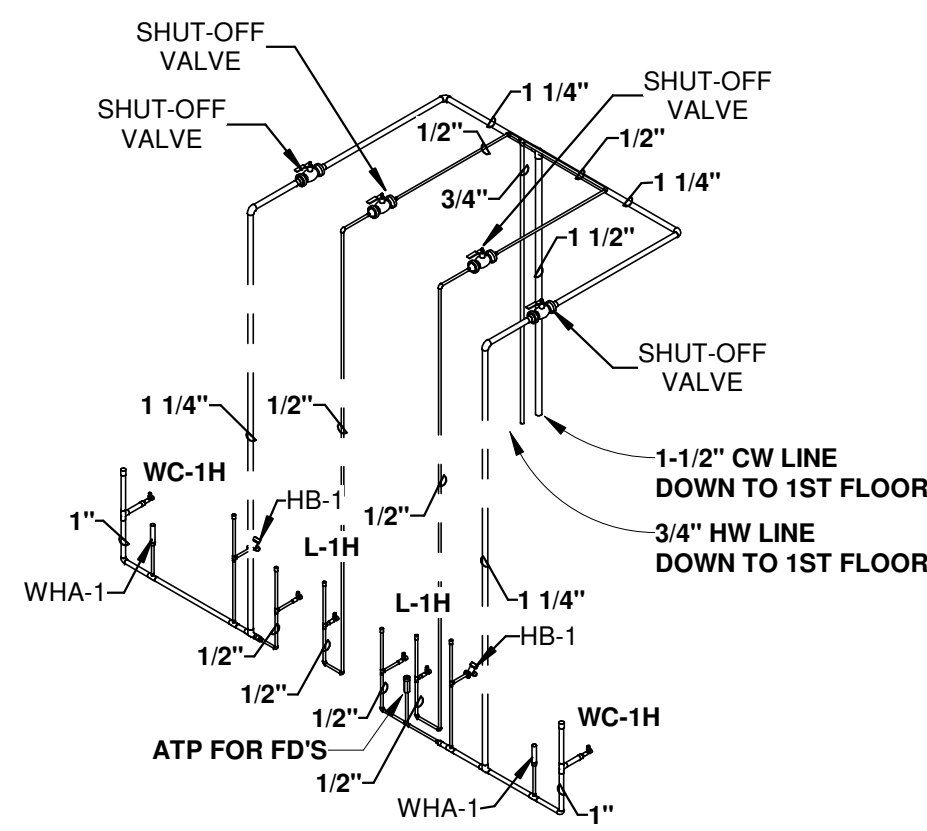
1 WATER RISER DIAGRAM
P301 RM. 111
NTS



2 ENLARGED PLUMBING PLAN RMS. 206 & 207
P301 1/4" = 1'-0"



2 WASTE RISER DIAGRAM
P301 RMS. 206 & 207
NTS



2 WATER RISER DIAGRAM
P301 RMS. 206 & 207
NTS

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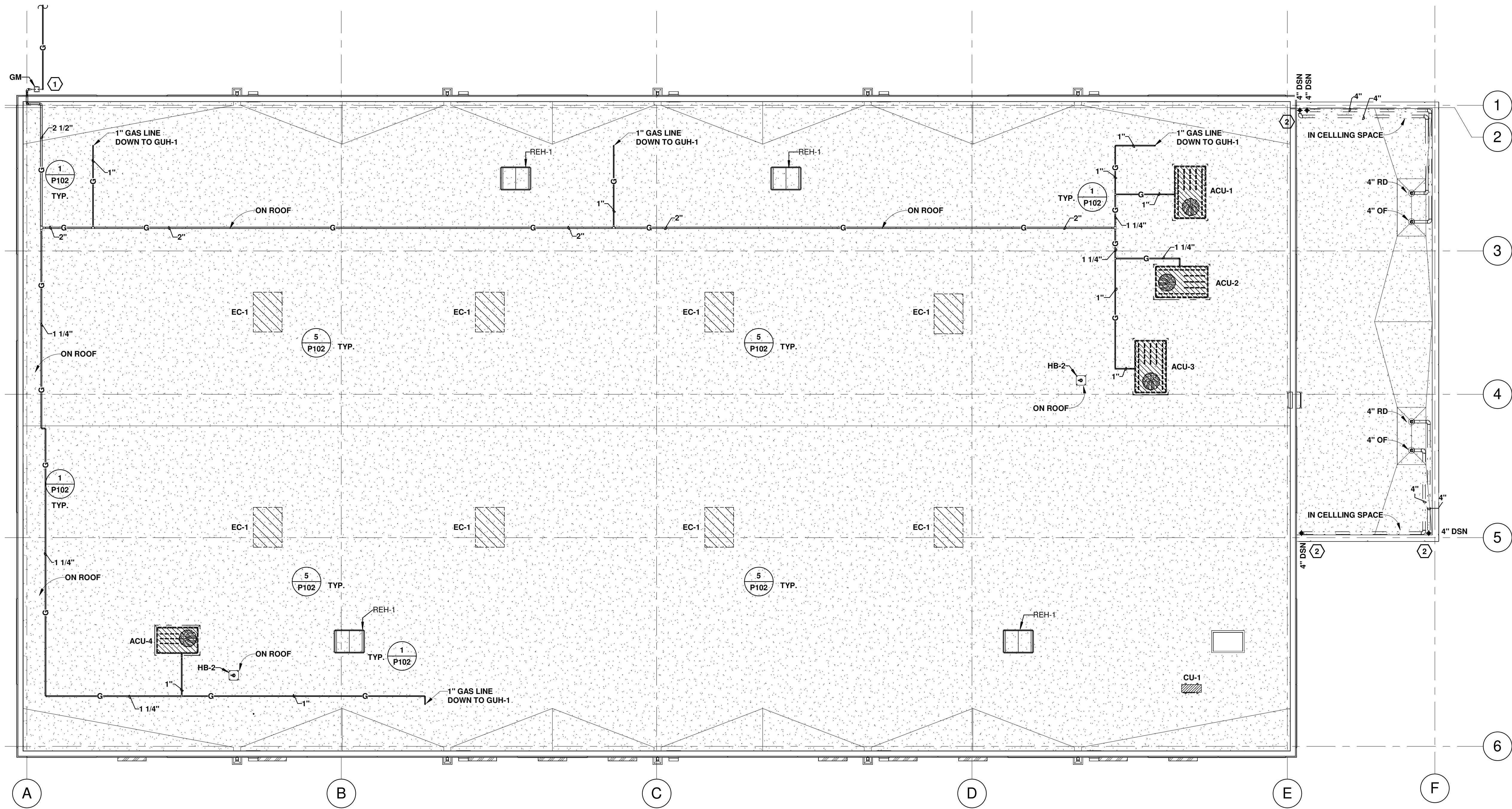
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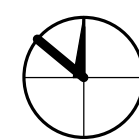
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Drawn By:	Author
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Sheet Title:
ENLARGED PLUMBING
PLANS & RISERS

Sheet No.

P301



 **PLUMBING ROOF PLAN**
1/8" = 1'-0"
N

KEYED NOTES

- ① CONTRACTOR TO EXTEND NEW GAS LINE FROM NEW GAS METER. ANCHOR GAS RISER TO WALL, PAINT TO MATCH. EXTEND GAS LINE ON ROOF.
- ② RUN ROOF DRAIN PIPING IN CHASE.

Jose A. Bernal



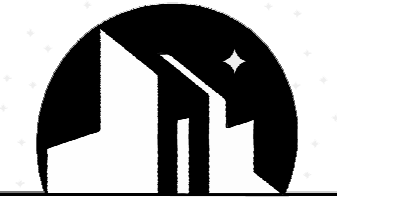
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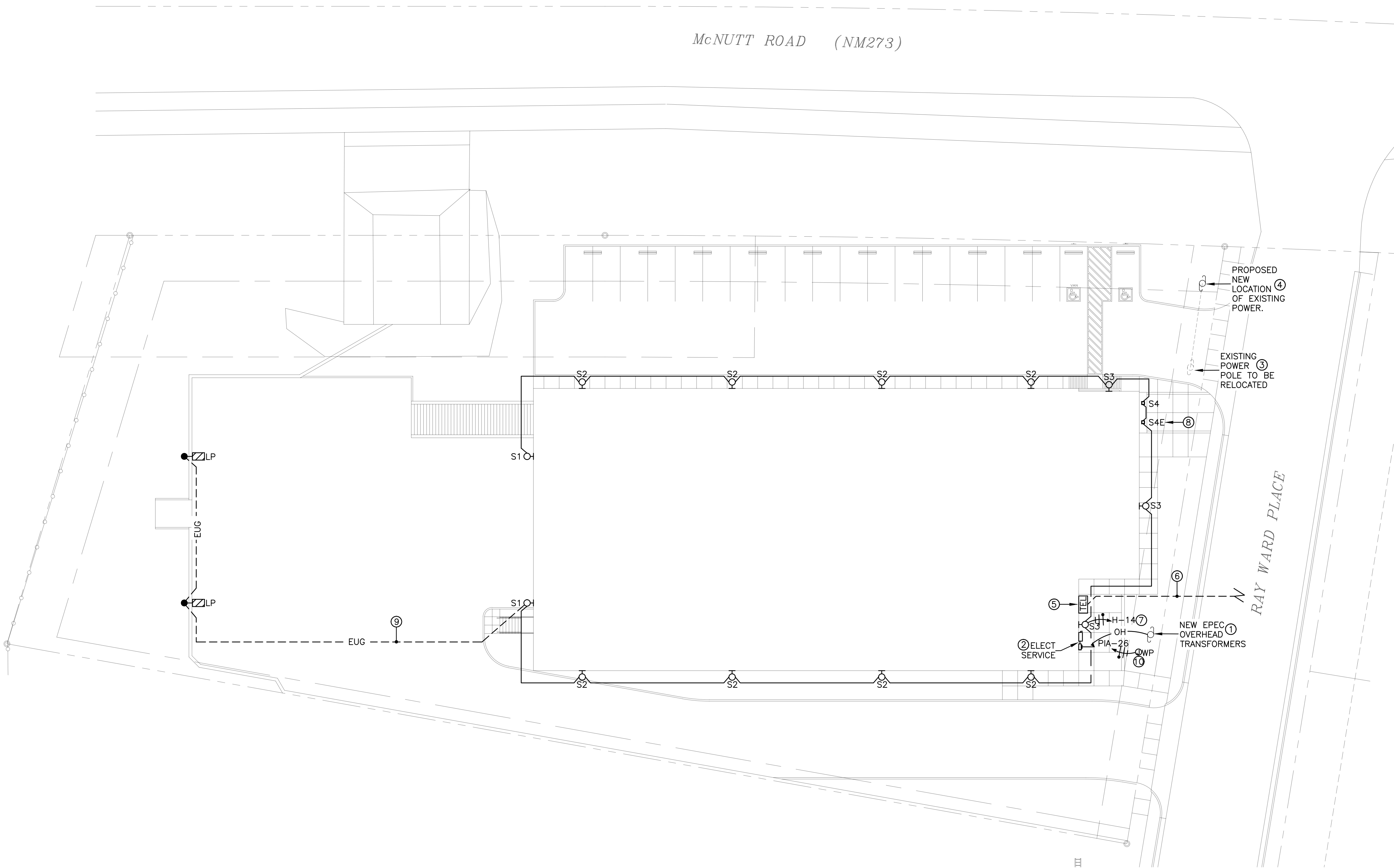
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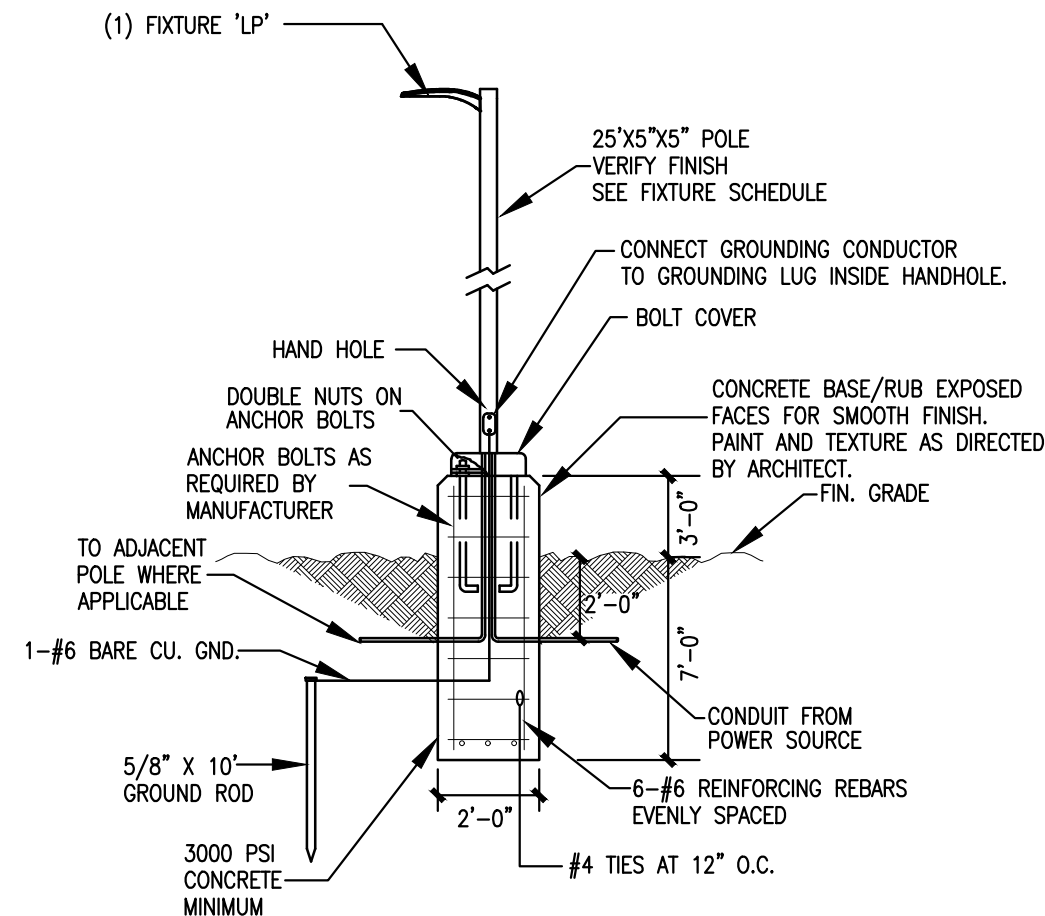
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P400



1 ELECTRICAL SITE PLAN

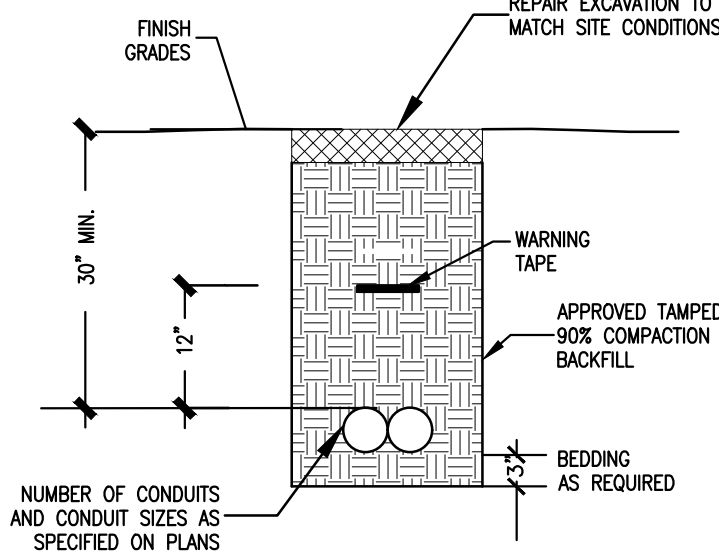
SCALE: 1" = 20'



1 LIGHT POLE BASE DETAIL

E1.0

NOTE: REFER TO MANUFACTURER INSTRUCTIONS FOR EXACT MOUNTING REQUIREMENTS. NTS



2 TYPICAL UNDERGROUND CONDUIT INSTALLATION

E1.0

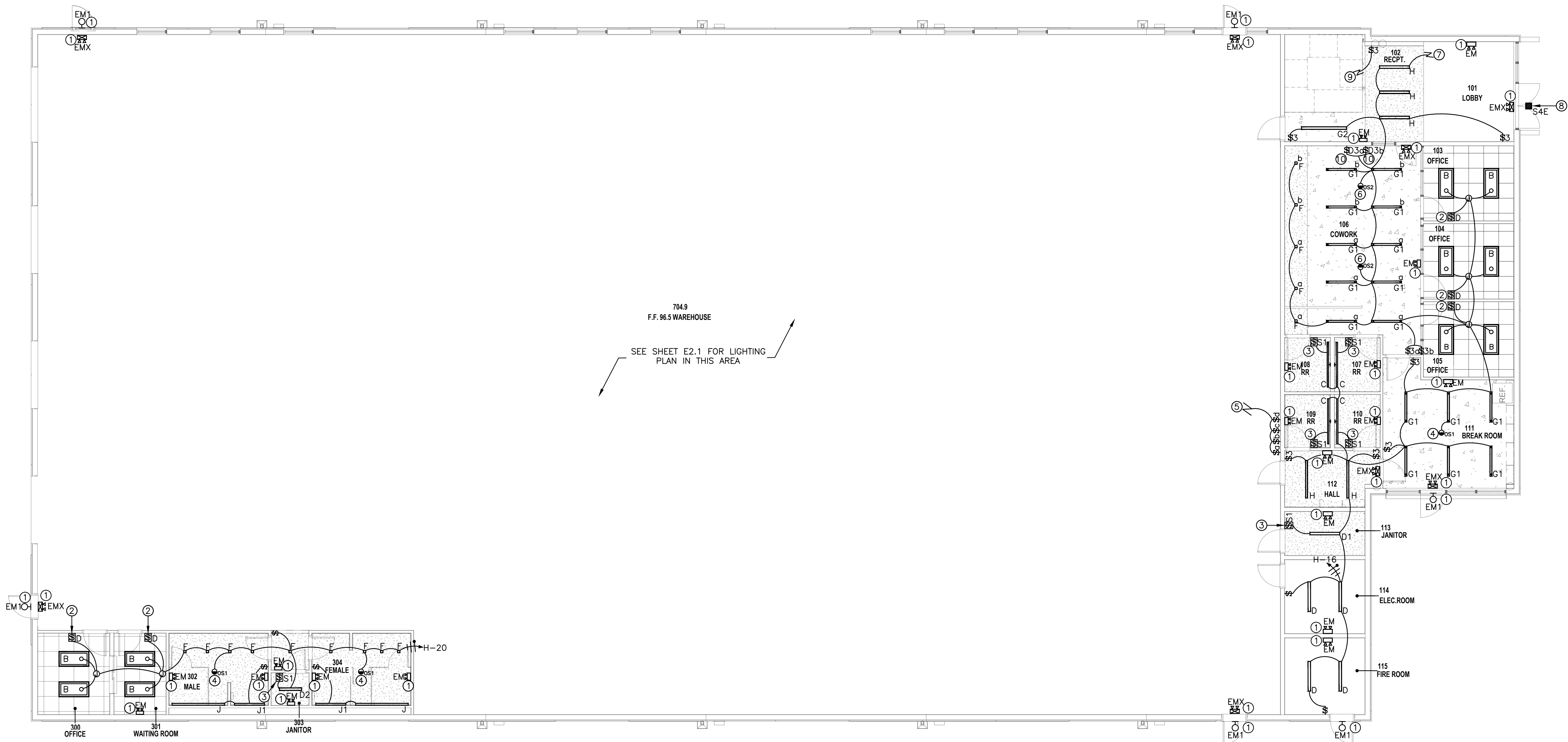
NTS

KEYED NOTES:

- PROPOSED LOCATION OF NEW EPEC OVERHEAD BANK OF TRANSFORMERS. COORDINATE WITH HUMBERTO MENDEZ FROM EPEC @ (915)543-5842 FOR LOCATION AND REQUIREMENTS AS SOON AS CONTRACT IS AWARDED.
- PROPOSED LOCATION OF NEW EPEC METER AND 400AMP MAIN DISCONNECT SWITCH. COORDINATE WITH EPEC AS SOON AS CONTRACT IS AWARDED. SEE ELECTRICAL RISER DIAGRAM ON SHEET E5.0.
- APPROXIMATE LOCATION OF EXISTING POWER POLE TO BE RELOCATED BY EPEC. COORDINATE WITH EPEC AS SOON AS CONTRACT IS AWARDED. SEE NOTE #4 FOR PROPOSED NEW LOCATION.
- PROPOSED NEW LOCATION OF EXISTING POWER POLE. COORDINATE WITH EPEC FOR RELOCATION AS SOON AS CONTRACT IS AWARDED.
- PROVIDE AND INSTALL A TELEPHONE TERMINAL CABINET 24"x24"x8"DEEP, RAIN TIGHT, LOCKABLE CABINET. INSTALL A 3" UG CONDUIT WITH PULLSTRING AND BUSHINGS FROM CABINET TO TELEPHONE SERVICE POINT OF CONNECTION. COORDINATE WITH OWNER'S PREFERRED TELEPHONE PROVIDER FOR REQUIREMENTS. COORDINATE WITH NOTE #1 ON SHEET E4.0.
- PROVIDE AND INSTALL A 3" UG CONDUIT WITH PULLSTRING FROM TELEPHONE CABINET TO TELEPHONE SERVICE POINT OF CONNECTION. COORDINATE WITH OWNER'S PREFERRED TELEPHONE PROVIDER FOR REQUIREMENTS.
- THIS CIRCUIT MUST BE CONTROLLED BY ASTRONOMICAL CLOCK SWITCH INTERMATIC #ET2845C OR EQUAL APPROVED. USE A 1/2" CONDUIT WITH 3-#10 THWN. CU. CONDRS. (1) SWITCHED LEG, (1) HOT CONDUCTOR FOR EMERGENCY BATTERIES AND (1) NEUTRAL AND 1-#10 CU. GND.
- CONNECT EMERGENCY BATTERY BACK-UP TO THE UNSWITCHED HOT CONDUCTOR OF CKT H-14.
- PROVIDE AND INSTALL A 1/2" UNDERGROUND CONDUIT WITH 2-#10 THWN. CU. CONDRS. AND 1-#10 CU. GND FOR POWER TO LIGHT POLES AS SHOWN.
- PROVIDE AND INSTALL A WEATHER PROOF J-BOX WITH CIRCUIT AS SHOWN FOR POWER TO BACK FLOW PREVENTER HEATERS. MAKE CONNECTIONS TO BOTH BACK FLOW HEATERS WITH FLEXIBLE WATER TIGHT CONDUIT. COORDINATE WITH PLUMBING PLANS FOR LOCATIONS AND REQUIREMENTS.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	2X3 LIGHT FIXTURE, UPPER CASE LETTER DENOTES TYPE. IS FIXTURE IS SHOWN WITH LOWER CASE LETTER DENOTES WHICH SWITCH IS CONTROLLING FIXTURE
	2X4 LIGHT FIXTURE WITH EM BATTERY BACKUP, UPPER CASE LETTER DENOTES TYPE. IS FIXTURE IS SHOWN WITH LOWER CASE LETTER DENOTES WHICH SWITCH IS CONTROLLING FIXTURE
	LINEAR LIGHT FIXTURE, UPPER CASE LETTER DENOTES TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING DETAILS
	WALL MOUNTED LINEAR LIGHT FIXTURE, UPPER CASE LETTER DENOTES TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING DETAILS
	SPECIAL SUSPENDED LINEAR LIGHT FIXTURE, UPPER CASE LETTER DENOTES TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING DETAILS
	SPECIAL SUSPENDED LINEAR LIGHT FIXTURE, UPPER CASE LETTER DENOTES TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING DETAILS
	SMALL ROUND SUSPENDED LIGHT FIXTURE, UPPER CASE LETTER DENOTES TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING DETAILS
	EMERGENCY LIGHTS FIXTURE, CONNECT TO UNSWITCHED HOT CONDUCTOR.
	COMBINATION EXIT/EMERGENCY LIGHT FIXTURE, CONNECT TO UNSWITCHED HOT CONDUCTOR.
	RECESSED DOWNLIGHT FIXTURE, LETTER DENOTES TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING DETAILS.
	RECESSED DOWNLIGHT FIXTURE WITH EM BATTERY BACKUP, LETTER DENOTES TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING DETAILS.
	WALL MOUNTED FIXTURE, LETTER DENOTES TYPE, REFER TO LIGHTING FIXTURE SCHEDULE FOR MOUNTING DETAILS.
	POLE MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE.
	SINGLE POLE WALL SWITCH, 20A, 120/277V 44" TO CENTER OF BOX IF MOUNTING HEIGHT IS NOT SPECIFIED ON PLANS. IF SHOWN ON PLANS, LOWER CASE LETTER DENOTES WHICH LIGHT FIXTURES IS THIS SWITCH CONTROLLING.
	3-WAY WALL SWITCH, 20A, 120/277V 44" TO CENTER OF BOX IF MOUNTING HEIGHT IS NOT SPECIFIED ON PLANS. IF SHOWN ON PLANS, LOWER CASE LETTER DENOTES WHICH LIGHT FIXTURES IS THIS SWITCH CONTROLLING.
	DIMMER SWITCH LUTRON DIVA DVSTV OR EQUAL AT 44" TO CENTER OF BOX IF MOUNTING HEIGHT ID NOT SPECIFIED ON PLANS. IF SHOWN ON PLANS, LOWER CASE LETTER DENOTES WHICH LIGHT FIXTURES IS THIS SWITCH CONTROLLING.
	DIMMER SWITCH LUTRON DIVA DVSTV OR EQUAL CONNECTED IN 3-WAY AT 44" TO CENTER OF BOX IF MOUNTING HEIGHT ID NOT SPECIFIED ON PLANS. IF SHOWN ON PLANS, LOWER CASE LETTER DENOTES WHICH LIGHT FIXTURES IS THIS SWITCH CONTROLLING.
	KEYED NOTE SYMBOL-ELECTRICAL
	DETAIL CALL-OUT WHERE 'X' REPRESENTS THE DETAIL NUMBER AND 'XX' REPRESENTS THE SHEET NUMBER
	ELECTRICAL UNDERGROUND CIRCUIT, 2'-0" MINIMUM BELOW GRADE.
	LOW VOLTAGE WIRING CIRCUIT
	WEATHERPROOF
	ABOVE FINISHED FLOOR
	BRANCH CIRCUIT IN WALLS OR CEILING.
	BRANCH CIRCUIT UNDER FLOOR.
	DENOTES NEW CIRCUIT HOME RUN.
	NEW UTILITY OVERHEAD TRANSFORMER.
	OVERHEAD UTILITY CONDUCTORS
	SECONDARY POWER POLE FOR SERVICE DROP. COORDINATE WITH ONCOR ELECTRIC FOR REQUIREMENTS
	ELECTRICAL SERVICE
	JUNCTION BOX
	JUNCTION BOX INSTALLED ABOVE THE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN FIXTURES. MAXIMUM 6'-0" LENGTH OF CONDUIT WITH REQUIRED CONDUCTORS ALONG WITH GREEN WIRE GROUND.
	DUPLEX RECEPTACLE, 20A, 125V, 18" A.F.F. TO CENTER OF BOX WHEN HEIGHT IS NOT INDICATED ON PLANS.
	GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE, 20A, 125V, 18" A.F.F. TO CENTER OF BOX WHEN HEIGHT IS NOT INDICATED ON PLANS.
	GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE, 20A, 125V, MOUNTED AT 44" TO CENTER OF BOX
	GFI DUPLEX RECEPTACLE OUTLET FOR ELECTRICAL WATER COOLER
	RECEPTACLE, 125/250VAC - 30A. NEMA 6-30R, 18" A.F.F. TO CENTER UNLESS OTHERWISE NOTED
	QUADRUPLEX RECEPTACLE, 125VAC-20A, NEMA 5-20R, 18" A.F.F., TO CENTER UNLESS OTHERWISE NOTED
	LEGRAND OMNIBOX THREE-GANG STEEL FLOOR BOX #88053 WITH 2 DUPLEX 20AMP RECEPTACLE AND ADDITIONAL GANG FOR COMMUNICATIONS OR EQUAL APPROVED. PROVIDE WITH COMBINATION CARPET AND TILE FLANGE #837B WITH (2) BRASS DUPLEX COVER PLATES #82BR AND(1) BRASS COMMUNICATION COVER PLATE #828COMTC.
	4" SQ. BOX WITH SINGLE DEVICE PLASTER RING AT 44" A.F.F TO CENTER OF BOX FOR THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR
	NEW PANEL BOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	DISCONNECT, TO BE NEMA 3R IF INSTALLED OUTDOORS.
	MOTOR CONTROLLER, SIZE AND POLES FOR MOTOR FURNISHED.
	EXHAUST FAN, SEE MECHANICAL AND ELECTRICAL PLANS FOR REQUIREMENTS
	ELECTRIC MOTOR
	ELECTRIC PUMP
	CONTROL STATION FOR EVAPORATIVE COOLERS AND WATER PUMPS. SEE PLANS FOR REQUIREMENTS.
	HVAC EQUIPMENT LOCATED ON ROOF. SEE PLANS FOR REQUIREMENTS.
	HVAC EQUIPMENT LOCATED INDOORS. SEE PLANS FOR REQUIREMENTS.



1 LIGHTING PLAN - 1ST FLOOR
SCALE: 1/8" = 1'-0"

LIGHTING CONTROLS LEGEND

DEVICE	MODEL	DESCRIPTION
S1	DSW-301 OR EQUAL	WATTSTOPPER WALL SWITCH SENSOR DUAL TECHNOLOGY, SELF POWERED, ONE SWITCH, 44" TO CENTER OF BOX
D	DW-311 OR EQUAL	WATTSTOPPER DIMMING WALL SWITCH SENSOR DUAL TECHNOLOGY, SELF POWERED, 44" TO CENTER OF BOX
OS1	DT-355 OR EQUAL	WATTSTOPPER CEILING MOUNTED DUAL-TECHNOLOGY, 1000 SQ FT, LINE VOLTAGE.
OS2	DT-355 OR EQUAL	WATTSTOPPER CEILING MOUNTED DUAL-TECHNOLOGY, 1000 SQ FT, LINE VOLTAGE. MULTIWAY CONNECTIONS.
Dq	DIMMER SWITCH LUTRON DIVA DVSTV.	LOWER CASE LETTER DENOTES WHICH LIGHT FIXTURE IS EACH SWITCH CONTROLLING.
D3a	3-WAY DIMMER SWITCH LUTRON DIVA DVSTV.	LOWER CASE LETTER DENOTES WHICH LIGHT FIXTURE IS EACH SWITCH CONTROLLING

NOTES:

- All sensor locations are approximate, refer to manufacturers installation instructions prior to installation.
- Ultrasonic ceiling mount sensors should be located a minimum of six feet from HVAC supply/return vents.
- Contractor is responsible for: proper sensitivity & time delay settings (for non-adaptive products); recommended placement, and field verification of circuits with in respect to power placement.
- Sensors mounted over the door must be placed one foot inside the threshold.
- Contractor is responsible for ensuring that the sensor bill of materials complies with the sensor design and layout specifications.
- Contractor is responsible for installing equipment in compliance with local code.
- All sensors to be set to turn off lighting after 15 minutes of no motion sensing.
- Wall mounted occupancy sensors must not be installed behind doors.
- Contractor may connect low voltage system in daisy chain to minimize LV cable runs.
- Ceiling mounted sensor to be pendant hung with 1/2" threaded rigid conduit at the same height of light fixtures in open ceiling areas.

KEYED NOTES:

- ALL EMERGENCY LIGHTS, BATTERY BACKUPS, AND EXIT SIGNS MUST BE CONNECTED TO THE UNSWITCHED LIGHTING HOT CONDUCTOR SERVING THIS AREA.
- PROVIDE AND INSTALL WALL MOUNTED OCCUPANCY DIMMING SENSOR DUAL TECHNOLOGY WATTSTOPPER DW-311 OR EQUAL. SENSOR TO BE SET FOR AUTO-ON/AUTO-OFF FUNCTION. AUTO-ON FUNCTION TO BE SET TO TURN ON ONLY 50% OF EACH LIGHT FIXTURE. AUTO-OFF FUNCTION TO BE SET TO TURN OFF LIGHTS AFTER 15 MIN. OF NO MOTION SENSING. REFER TO DETAIL 2/E2.3.
- PROVIDE AND INSTALL WALL MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE, OCCUPANCY SENSOR WATTSTOPPER MODEL DSW-301 OR EQUAL APPROVED BY ENGINEER, PROGRAM SENSOR FOR AUTO-ON/AUTO-OFF FUNCTION. AUTO-OFF FUNCTION TO BE SET TO TURN OFF ALL LIGHT SIN THIS ROOM AFTER 15 MIN. OF NO MOTION SENSING. REFER TO DETAIL 1/E2.3.
- PROVIDE AND INSTALL CEILING MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE, OCCUPANCY SENSOR WATTSTOPER MODEL DT-355 OR EQUAL APPROVED BY ENGINEER. PROGRAM SENSOR FOR AUTO-OFF FUNCTION ONLY. AUTO-OFF FUNCTION TO BE SET TO TURN OFF ALL LIGHTS IN THIS ROOM AFTER 15 MIN OF NO MOTION SENSING. REFER TO DETAIL 4/E2.3.
- MAKE CONNECTIONS TO LIGHT FIXTURES IN WAREHOUSE. LOWER CASE LETTER DENOTES WHICH SWITCH IS CONTROLLING EACH LIGHT FIXTURE. COORDINATE WITH NOTE #5 ON SHEET E2.1
- PROVIDE AND INSTALL CEILING MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE, OCCUPANCY SENSOR WATTSTOPER MODEL DT-355 OR EQUAL APPROVED BY ENGINEER. PROGRAM SENSOR FOR AUTO-OFF FUNCTION ONLY. AUTO-OFF FUNCTION TO BE SET TO TURN OFF ALL LIGHTS IN THIS ROOM AFTER 15 MIN OF NO MOTION SENSING. REFER TO DETAIL 3/E2.3 FOR MULTIPLE SENSORS.
- MAKE CONNECTIONS TO LIGHT FIXTURE TYPE 'K' ON SECOND FLOOR. FIXTURE TYPE 'K' TO BE CONTROLLED BY THE THREE-WAY SWITCHES IN FIRST FLOOR. COORDINATE WITH NOTE #7 ON SHEET E2.1.
- EXTERIOR DOWNLIGHT TYPE 'S4E' IS PROVIDED WITH EMERGENCY BATTERY BACKUP. SEE ELECTRICAL SITE PLAN ON SHEET E1.0 FOR ASSOCIATED CIRCUIT.

CONNECT 3-WAY SWITCH TO CONTROL LIGHT FIXTURE TYPE 'K2' ON SECOND FLOOR. MAKE CONNECTIONS BETWEEN 3-WAY SWITCHES AS REQUIRED. COORDINATE WITH NOTE#10 ON SHEET E2.1.
- PROVIDE AND INSTALL DIMMER SWITCH LUTRON DIVA DVSTV OR EQUAL APPROVED BY OWNER. INSTALL DIMMER SWITCH IN INDIVIDUAL BOX AND MAKE CONNECTIONS TO LIGHT FIXTURE AS REQUIRED. REFER TO DETAIL 3/E2.3 FOR SINGLE DIMMER CONNECTIONS AND DETAIL 7/E2.3 FOR 3-WAY SWITCH CONNECTIONS.

ES
2dio

architecture

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LUMINA
DESIGN STUDIO

E-mail: luminadesignstudio1@gmail.com

i1 Warehouse & Office

for:

ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008



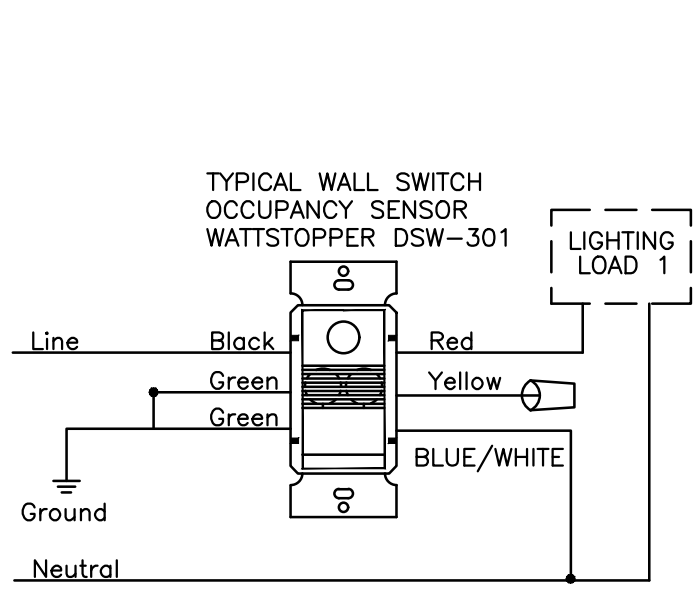
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140 RAY WARD PL SANTA TERESA, NM 88008
TEL: (505) 836-9900 FAX: (505) 836-9909
REGISTRATION # F005236

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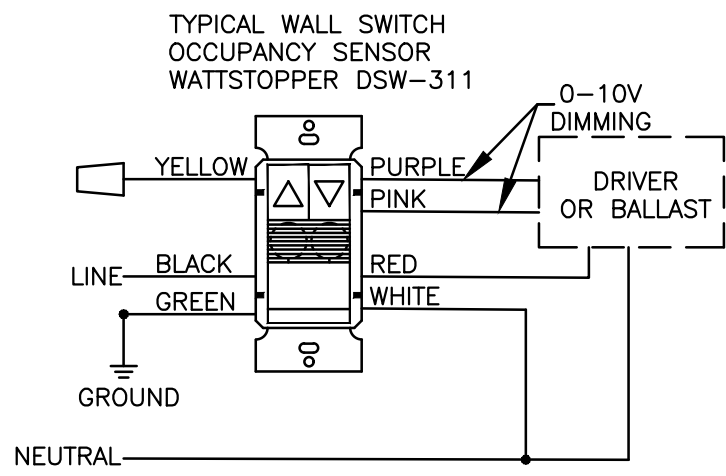
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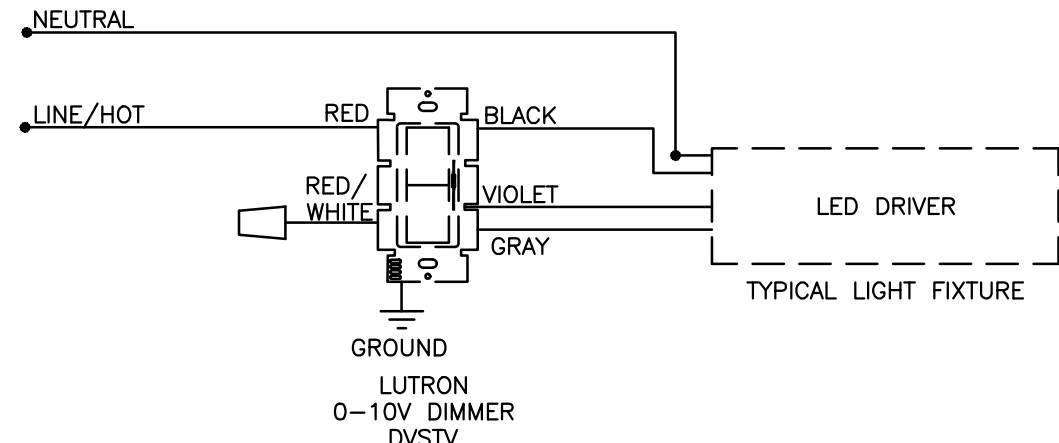
Date:	07.03.24
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Drawn By:	AE
Checked By:	FOFP
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Sheet Title:	LIGHTING PLAN 1ST FLOOR
Sheet No.	



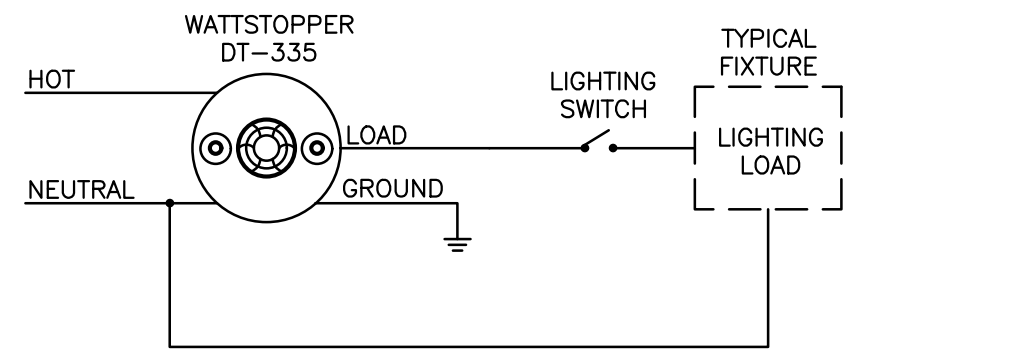
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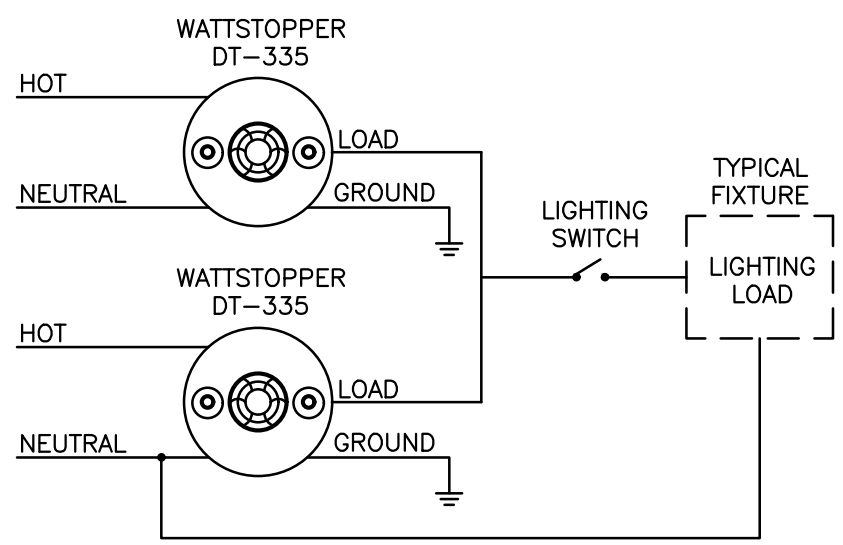
2 WALL MOUNTED DIMMER SENSOR E2.3 NTS



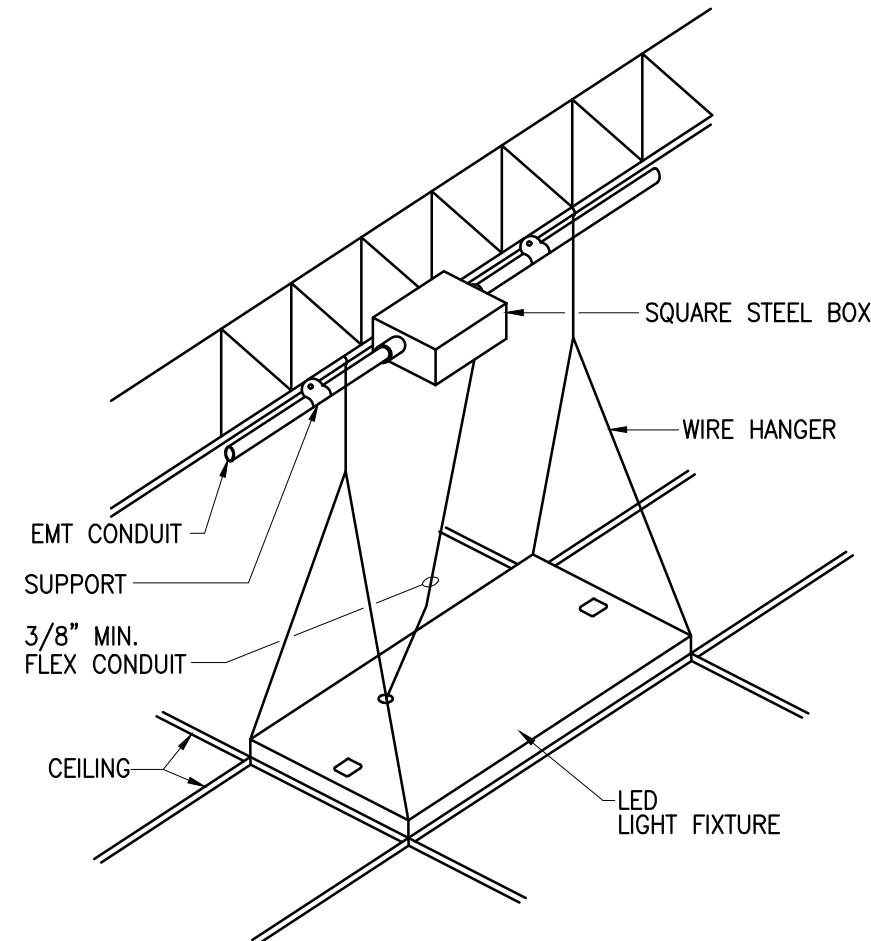
3 DIMMER SWITCH E2.3 \$D
* NOTES: DIMMER SWITCH TO BE LUTRON DIVA DVSTV-I. DIMMER SWITCH MUST BE LIGHT FIXTURE COMPATIBLE. COORDINATE WITH LIGHT FIXTURE MANUFACTURER FOR COMPATIBLE DIMMERS. MAKE ALL NECESSARY CONNECTIONS TO LIGHT FIXTURE LED DRIVERS. EACH DIMMER MUST BE INSTALLED IN INDIVIDUAL BOXES. DIMMERS MUST NOT BE GANGED.



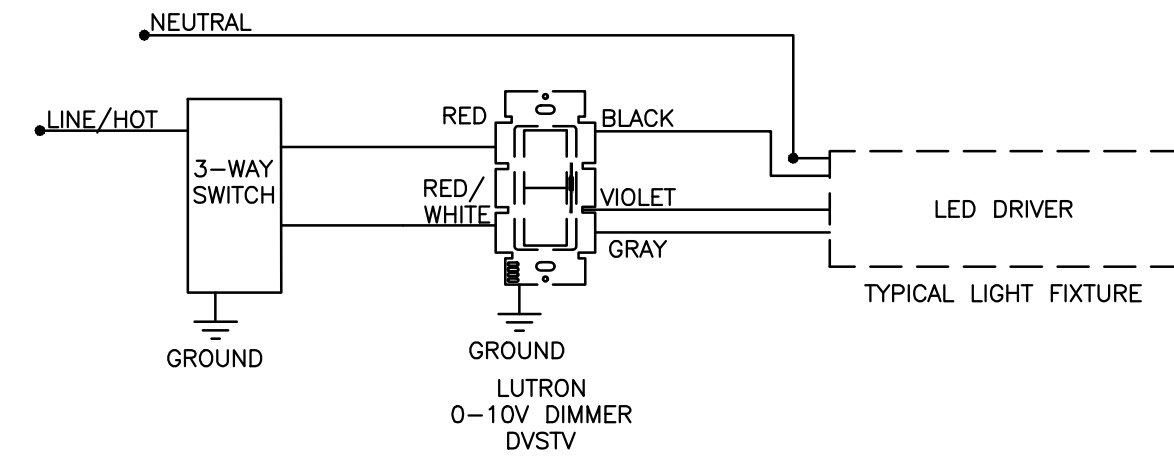
4 CEILING MOUNTED SENSOR E2.3 NTS



5 CEILING MOUNTED SENSOR E2.3 NTS



6 LAY-IN LIGHT FIXTURE MOUNTING DETAIL E2.3 NTS



7 3-WAY DIMMER SWITCH E2.1 \$D3
* NOTES: DIMMER SWITCH TO BE LUTRON DIVA DVSTV-I. DIMMER SWITCH MUST BE LIGHT FIXTURE COMPATIBLE. COORDINATE WITH LIGHT FIXTURE MANUFACTURER FOR COMPATIBLE DIMMERS. MAKE ALL NECESSARY CONNECTIONS TO LIGHT FIXTURE LED DRIVERS. EACH DIMMER MUST BE INSTALLED IN INDIVIDUAL BOXES. DIMMERS MUST NOT BE GANGED.

FIXTURE SCHEDULE				
TYPE	DESCRIPTION & MFR. CAT. No.	TYPE-WATTS	MOUNTING	NOTES
A	HEW GH-4-L240-8-40/FA-OCWS-FSP-321B-L3-120-480/DIM-UNV	LED 178W	PENDANT @ 24"-0" TO BOTTOM	(3)
AE	HEW GH-4-L240-8-40/FA-EM/20W-OCWS-FSP-321B-L3-120-480/DIM-UNV	LED 178W	PENDANT @ 24"-0" TO BOTTOM	(3)
B	LSI TRI24 5,800L/35K UNV	LED 45W	RECESSED/GRID CEILING	
C	LUX EOS 2.0-W-DI-ASY-500-ASY-375-6-35K-8-1-UNV-S1-CC	LED 44W	WALL @ 7'-0" TO BOTTOM	(2)
D	LSI SDL4 LED 30L FL UNV DIM1 35K 80CRI	LED 23W	PENDANT @ 10'-0"	
D1	LSI SDL4 LED 60L FL UNV DIM1 35K 80CRI	LED 44W	SURFACE MOUNTED	
D2	LSI SDL2 LED 30L FL UNV DIM1 35K 80CRI	LED 24W	SURFACE MOUNTED	
F	DMF M4NCSN MD 15 9 35 WF 0 M4TSD FBA	LED 17W	RECESSED/HARD CEILING	
G1	LUX EOS3.0-P-DI-BAT-750-BAT-375-4-35K-8-1-UNV-S1-CC-HC-150-CBA	LED 39W	PENDANT @ 9'-0"	
G2	LUX EOS3.0-P-DI-BAT-750-BAT-375-6-35K-8-1-UNV-S1-CC-HC-150-CBA	LED 59W	PENDANT @ 9'-0"	
G3	LUX EOS 3.0-P-DI-BAT-750 BAT-375-8FT-35K-8-1-UNV-S1-FBA-HC-102-CBA	LED 78W	PENDANT @ 9'-6"	
H	LUX EOS3.0-R-FI-BAT-750-5-35K-8-UNV-S1-CC	LED 36W	RECESSED/HARD CEILING	
J	LUX EOS3.0-R-PER-FI-ASY-750-7-35K-8-UNV-S1-CC-3R	LED 51W	RECESSED/HARD CEILING	
J1	LUX EOS3.0-R-PER-FI-ASY-750-5-35K-8-UNV-S1-CC-3R	LED 36W	RECESSED/HARD CEILING	
K1	LUX EOS4.0-D1-BAT-750-LAM-375-PAT 6'X6' 35K 8 1 UNV S1 FBA HC 150IN CBA	LED 351W	PENDANT @ 20'-0"	
K2	LUX EA0S4.0-D1-BAT-750-LAM-375-PAT 4'X4' 35K 8 1 UNV S1 FBA HC 150IN CBA	LED 156W	PENDANT @ 20'-0"	
L	TMS 912HL 19LED CRD 35K 277V-FBA-AFBA-ACC	LED 19W	PENDANT @ 9'-6"	
M	TMS 941LURSP-96"X48"-7240L DOWN-2,172L UP-35K-UNI-S-BC-FBA-DIML	LED 105W	PENDANT @ 7'-0"	
S1	LSI MRM LED 18L SIL FT UNV DIM 40K 70CRI FBA IH	LED 135W	WALL MOUNTED	(1)
S2	LSI MRM LED 09L SIL 3 UNV DIM 40K 70CRI FBA IH	LED 62W	WALL MOUNTED	(1)
S3	LSI XWS LED 6L FTW UNV DIM 40K 80CRI FBA	LED 52W	WALL MOUNTED	(1)
S4	HEW 6DS L15 8 40K DIM UNV R W OF CS AD WET/CC N F1	LED 16W	RECESSED/HARD CEILING	
S4E	HEW 6DS L15 8 40K EM/10W/IPRTS DIM UNV RW OF CS AD WET/CC N F1	LED 16W	RECESSED/HARD CEILING	
LP	LSI MRM LED 18L SIL FT UNV DIM 40K 70CRI FBA IL	LED 135W	POLE @ 25'-0"	
EM	MULE TSR W	INCLUDED	WALL @ 8'-6" TO BOTTOM	
EMX	MULE AL U R WW	INCLUDED	WALL @ 8'-6" TO BOTTOM	
EM1	MULE MAKO-LED ACEM DB	INCLUDED	WALL @ 8'-6" TO BOTTOM	

- REFER TO EXTERIOR ELEVATION DETAILS ON SHEET E2.2 FOR MOUNTING HEIGHT.
- DIRECT AND INDIRECT OPTICS MUST BE POINTING TOWARDS THE ROOM.
- ALL LIGHT FIXTURES TYPE "A" AND "AE" MUST BE PROVIDED WITH AN INTEGRATED OCCUPANCY SENSOR. OCCUPANCY SENSOR MUST BE SET TO AUTOMATICALLY REDUCE LIGHTING POWER @ 50% AFTER 20MIN ON NO MOTION SENSING.



COMcheck Software Version

COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code

2021 IECC

Project Title

ICOMSA LLC

Project Type

New Construction

Construction Year

2021

Construction

2021

Design/Contractor

2021

Additional Efficiency Packages

1. 20% Reduction in Lighting Power Density (LPD)

2. 10% Reduction in Lighting Power Density (LPD)

3. 10% Reduction in Lighting Power Density (LPD)

Allowed Interior Lighting Power

A

Area Category

B

Area (sq ft)

C

Power (W)

D

Allowed Watts / sq ft

E

Allowed Watts

1 Warehouse Storage/Trailer

11000

249

0.022

249

2 Common Space Types (Office - Enclosed)

900

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3 Warehouse Storage/Trailer

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4 Warehouse Storage/Trailer

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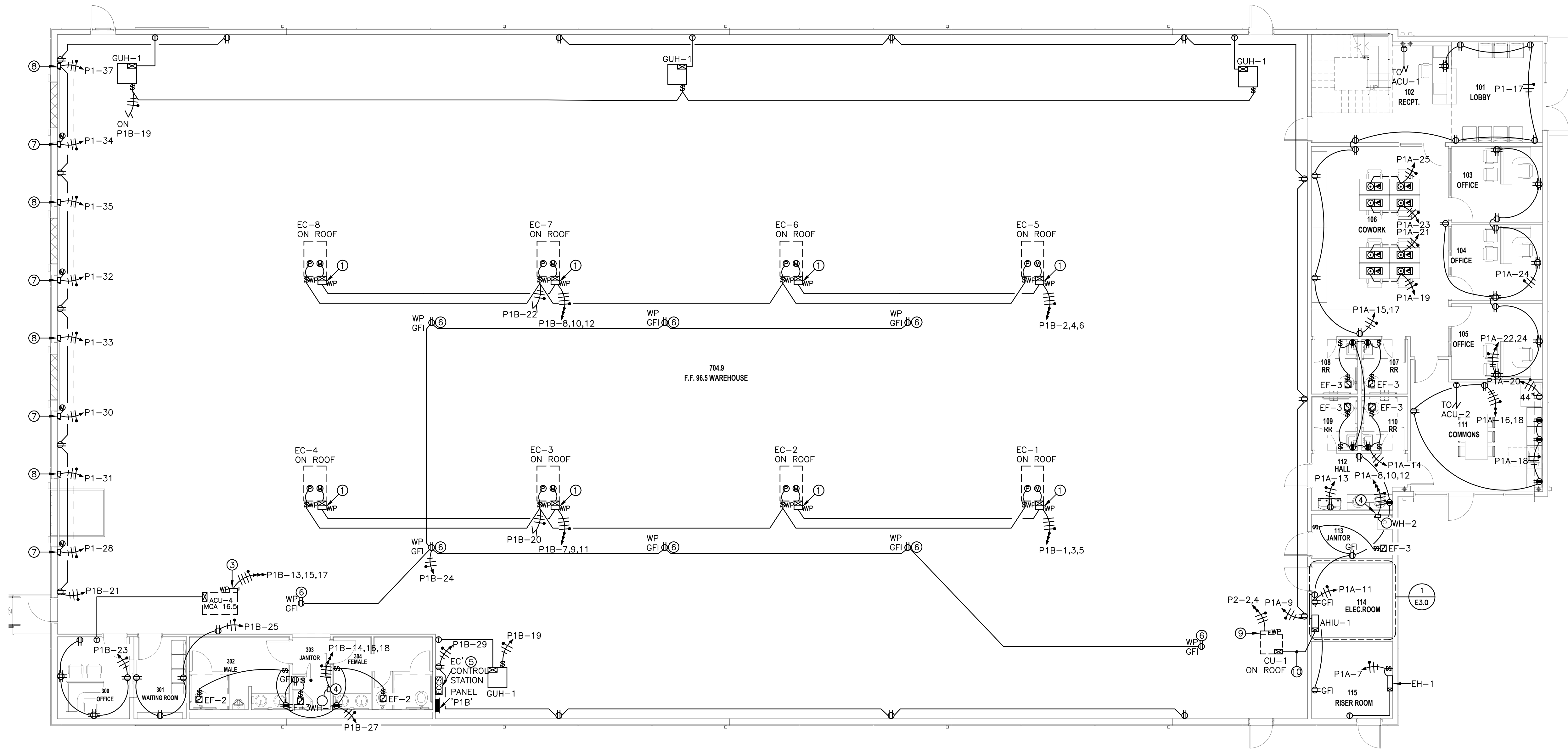
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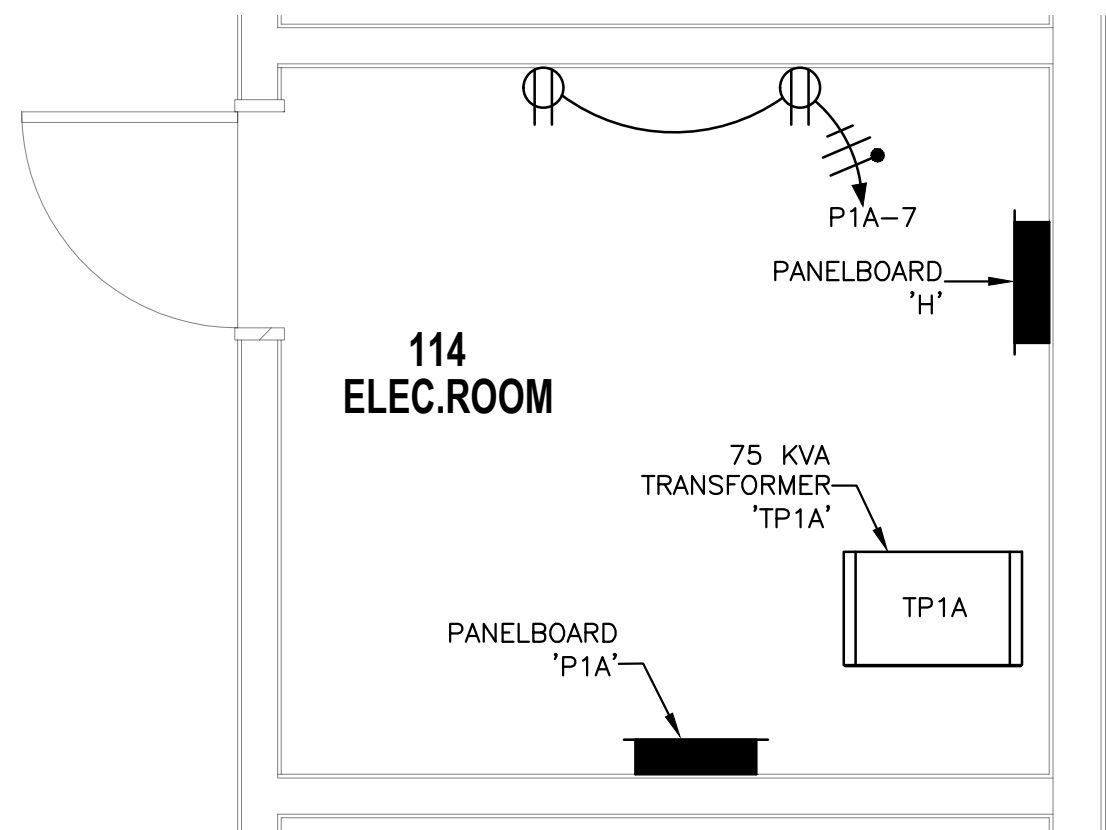
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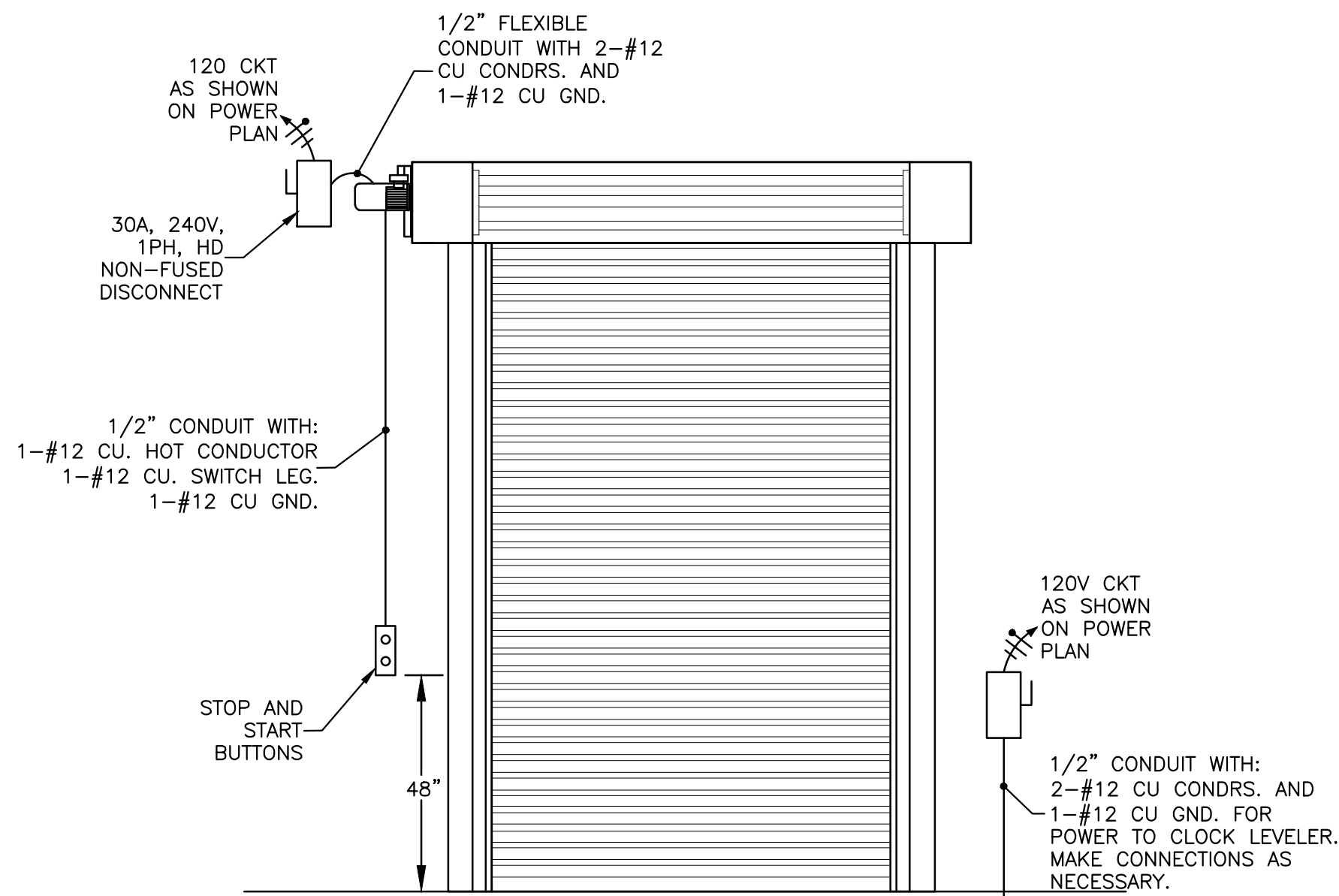
A Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast		B Lumen/ Fixture	C # of Fixture Watts	D LC X B	
TWFL 1-Other		1	2	50	100
TWFL 1-Other		1	2	36	12
TWFL 1-Other		1	2	43	204
3-MAIN OFFICE SPACE (Common Space Types Storage)					
TWFL 1-Other		1	1	46	49
TWFL 1-Other		1	1	46	49
TWFL 1-Other		1	1	34	12
4-ELEC RM AND ELEC RM (Common Space Types Electrical/Mechanical)					
TWFL 1-Other		1	4	23	60
5-ENTRANCE RECEPTION (Common Space Types Corridor/Entrance - all ft. wide)					
TWFL 1-Other		1	6	36	13
6-CORRIDOR (Common Space Types Dining Area - General)					
TWFL 1-Other		1	6	39	234
7-CORRIDOR (Common Space Types Office - Open Plan)					
TWFL 1-Other		1	6	17	40
TWFL 1-Other		1	10	39	394
TWFL 1-Other		1	6	36	394
10-LOBBY (Common Space Types Lobby - General)					
TWFL 1-Other		1	1	55	305
11-RECEPTION AREA/FOYER (Common Space Types Meeting/Hall)					
TWFL 1-Other		1	1	39	134
TWFL 1-Other		1	1	39	58
12-CONFERENCE (Common Space Types Conference/Meeting/Hall)					
TWFL 1-Other		1	6	17	100
TWFL 1-Other		1	1	100	100
13-Common Space Types Corridor/Transition - all ft. wide					
TWFL 1-Other		1	6	19	132
TWFL 1-Other		1	1	36	19
				Total Proposed Watts = 10912	
Detailed Lighting (RASHES) Design 27th Street office code					
Interior Lighting Compliance					
Statement					
Certificate of Statement: The proposed interior lighting design represented in this document is compliant with the building plan, and all other calculations submitted with this permit. I, the undersigned, have prepared this interior lighting system based on the intent to meet the 2021 IECC requirements to COMcheck Version 10.					



1 POWER PLAN - 1ST FLOOR
SCALE: 1/8"=1'-0"



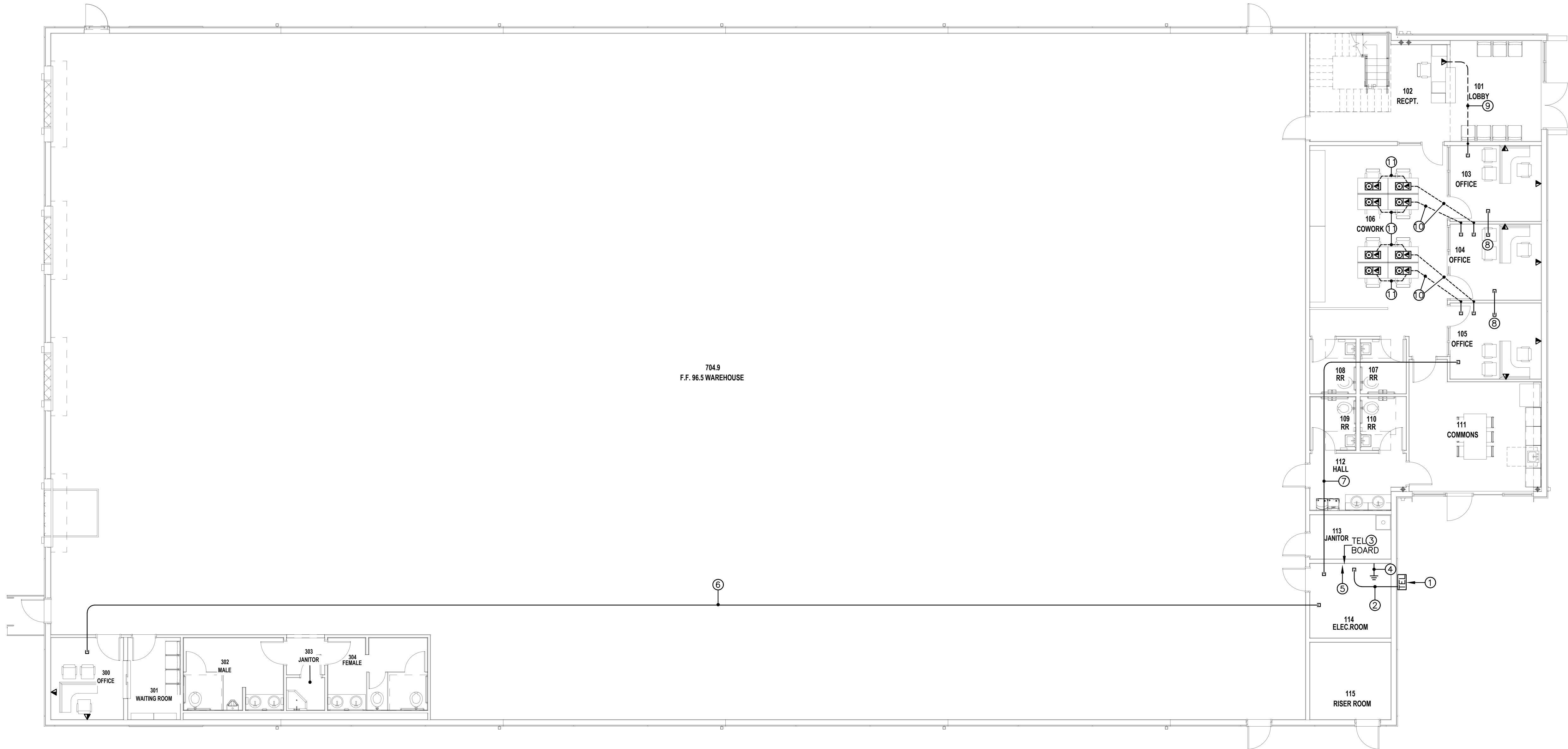
1 ENLARGED ELECTRICAL ROOM
E3.0
3/8"=1'-0"



2 ROLLING DOOR DETAIL
E3.0
NTS

KEYED NOTES:

- PROVIDE AND INSTALL A NEMA COMBINATION STARTER, TYPE 3R, NON-FUSIBLE DISCONNECT SWITCH, NEMA SIZE 0, 18A, SHP, 120V COIL WITH CIRCUIT AS SHOWN FOR POWER TO EVAPORATIVE COOLER. MAKE CONNECTIONS TO MOTOR WITH FLEXIBLE WATER TIGHT CONDUIT. NEMA COMBINATION STARTER TO BE CONTROLLED BY AN INDIVIDUAL STOP/START PUSH BUTTON LOCATED NEXT TO PANEL 'P1B'. SEE EVAPORATIVE CONTROL STATION DETAIL ON SHEET E3.1. USE A 1/2" CONDUIT WITH 3-#10 THWN. CU. CONDRS. AND 1-#10 CU. GND.
- PROVIDE AND INSTALL A SEPARATE 120V, 20A, SINGLE POLE SWITCH IN A WEATHER PROOF BOX FOR POWER TO EVAPORATIVE COOLER PUMP. MAKE CONNECTIONS TO WATER PUMP WITH FLEXIBLE WATER TIGHT CONDUIT. EACH OF THE PUMPS TO BE INDEPENDENTLY CONTROLLED BY A SINGLE POLE SWITCH LOCATED NEXT TO PANEL 'P1B'. SEE EVAPORATIVE CONTROL STATION DETAIL ON SHEET E3.1.
- PROVIDE AND INSTALL A 30AMP, 240V, 3HP, HD, TYPE 3R, NON-FUSED DISCONNECT FOR POWER TO AC UNIT. MAKE CONNECTIONS TO UNIT WITH 3/4" FLEXIBLE CONDUIT. USE A 3/4" CONDUIT WITH 3-#8 THWN. CU. CONDRS AND 1-#10 CU. GND.
- PROVIDE AND INSTALL A 30AMP, 240V, 3PH, HD, TYPE 1 NON-FUSED DISCONNECT SWITCH FOR POWER TO ELECTRIC WATER HEATER. INSTALL DISCONNECT SWITCH ADJACENT TO WATER HEATER AND MAKE CONNECTIONS WITH FLEXIBLE WATER TIGHT CONDUIT. USE A 1/2" CONDUIT WITH 3-#12 THWN. CU CONDRS AND 1-#12 CU GND.
- PROVIDE AND INSTALL STOP/START PUSH BUTTONS AND SINGLE POLE SWITCHES FOR EVAPORATIVE COOLERS AND PUMPS IN A NEMA BOX NEXT TO PANELBOARD 'P1B'. REFER TO EVAPORATIVE COOLER CONTROL STATION DETAIL ON SHEET E3.1.
- PROVIDE AND INSTALL A ROOF TOP RECEPTACLE GFCI/WP IN A WEATHER PROOF BOX WITH IN-USE METALLIC COVER. ENSURE EACH RECEPTACLE IS WITH IN 25FT FROM HVAC UNITS. USE A 1/2" CONDUIT WITH #10 THEN CU. CONDRS. AND 1-#10 CU GND.
- PROVIDE AND INSTALL A 30AMP, 240V, 1PH, HD, NON-FUSED DISCONNECT SWITCH WITH CIRCUIT AS SHOWN FOR POWER TO ROLLING DOOR. INSTALL DISCONNECT ADJACENT TO MOTOR AND MAKE CONNECTIONS AS REQUIRED TO MOTOR AND CONTROL STATION. SEE ROLLING DOOR POWER DETAIL ON THIS SHEET.
- PROVIDE AND INSTALL A 30AMP, 240V, 1PH, HD, NON-FUSED DISCONNECT SWITCH WITH CIRCUIT AS SHOWN FOR POWER TO LOADING DOCK LEVELER. INSTALL DISCONNECT ON WALL AT 60" A.F.F. AND MAKE CONNECTIONS TO DOCK LEVELER AS REQUIRED.
- PROVIDE AND INSTALL A 30AMP, 240V, 1PH, HD, TYPE 3R, NON-FUSED DISCONNECT SWITCH FOR POWER TO CONDENSING UNIT. MAKE CONNECTIONS WITH A 1/2" FLEXIBLE WATER TIGHT CONDUIT. USE A 1/2" CONDUIT WITH 2-#10 THWN. CU. CONDRS. AND 1-#10 CU. GND.
- INDOOR UNIT IS POWERED FROM CONDENSING UNIT. CONTRACTOR SHALL PROVIDE AND INSTALL A 1/2" CONDUIT WITH 2-#12 THWN. CU. CONDRS AND 1-#12 CU. GND. INSTALL A SEPARATE 1/2" CONDUIT WITH DC12-24V CONTROL WIRING. MAKE CONNECTIONS AS REQUIRED.



1 SPECIAL SYSTEMS PLAN - 1ST FLOOR SCALE: 1/8" = 1'-0"

KEYED NOTES:

- APPROXIMATE LOCATION OF NEW TELEPHONE CABINET. COORDINATE WITH NOTE #5 ON SHEET E1.0.
- PROVIDE AND INSTALL A 3" CONDUIT WITH PULLSTRING FROM TELEPHONE CABINET TO TELEPHONE BOARD AS SHOWN.
- PROVIDE AND INSTALL A 4'X8'X3/4" A-C FIRE RATED PLYWOOD. THE PLYWOOD SHALL BE SECURELY MOUNTED VERTICALLY ON WALL AT 12" A.F.F. FOR FUTURE COMMUNICATIONS RACK.
- PROVIDE AND INSTALL A 4"WX10"LX3/4"THICK TERMINAL GROUNDING BAR AT 24" A.F.F. INSTALL A 1/2" CONDUIT WITH A #6 CU. BARE GROUNDING CABLE CONNECTED FROM THE GROUNDING BAR TO THE MAIN GROUNDING BAR IN PANELBOARD 'H'.
- PROVIDE AND INSTALL A 2" CONDUIT WITH PULLSTRING AND END BUSHINGS FROM TELEPHONE BOARD TO THE TELEPHONE BOX LOCATED IN SECOND FLOOR. COORDINATE WITH NOTE #2 ON SHEET E4.1, FOR LOCATION OF BOX ON SECOND FLOOR
- PROVIDE AND INSTALL A 1" CONDUIT WITH PULLSTRING AND END BUSHINGS FROM TELEPHONE BOARD TO ABOVE ACCESSIBLE LAY-IN CEILING IN OFFICE 300 AS SHOWN. INSTALL CONDUIT THROUGH JOIST LEVEL.
- PROVIDE AND INSTALL A 2" CONDUIT WITH PULLSTRING AND END BUSHINGS FROM TELEPHONE BOARD TO ABOVE ACCESSIBLE LAY-IN CEILING IN OFFICE 105. INSTALL CONDUIT ABOVE IN CEILING SPACE.
- PROVIDE AND INSTALL A 2" CONDUIT SLEEVE ABOVE IN CEILING SPACE.
- PROVIDE AND INSTALL A 3/4" UG CONDUIT FROM DATA BOX TO NEAREST WALL AS SHOWN. RUN CONDUIT RECESSED IN WALL AND STUB-OUT ABOVE ACCESSIBLE LAY-IN CEILING AS SHOWN.
- PROVIDE AND INSTALL A 1" UG CONDUIT FROM COMMUNICATIONS SIDE OF FLOOR BOX TO NEAREST WALL AS SHOWN. RUN CONDUIT RECESSED IN WALL A STUB-OUT ABOVE NEAREST ACCESSIBLE LAY-IN CEILING AS SHOWN.
- PROVIDE AND INSTALL A 3/4" UG CONDUIT FROM COMMUNICATIONS SIDE OF FLOOR BOX TO THE OTHER FLOOR BOX COMMUNICATIONS SIDE AS SHOWN.

SPECIAL SYSTEMS GENERAL NOTES

- ALL DATA CONDUITS MUST BE PROVIDED WITH BUSHINGS AT EACH CONDUIT END.
- CONTRACTOR MUST VERIFY EXACT ROUGH-IN REQUIREMENTS AND LOCATIONS OF ALL NEW DATA/TEL. OUTLETS WITH OWNERS I.T. CONTRACTOR BEFORE DOING ANY WORK.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE INSTALLED SO THAT FIRE RATING IS NOT COMPROMISED. PROVIDE FIRE STOPPING MATERIALS AS NECESSARY.
- ALL CONDUITS MUST BE EMT. NO FLEX CONDUIT IS PERMITTED.
- ALL CONDUIT SLEEVES AND CONDUIT STUB-OUTS SHOULD ENTER ROOMS 12" HIGHER THAN THE CEILING OF THE AREA THAT IS GOING TO SERVICE.
- ALL DATA SLEEVES MUST BE SEPARATED FROM ALL OTHER SPECIAL SYSTEM SLEEVES BY AT LEAST 2'-0".

SPECIAL SYSTEMS SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LEGRAND OMNIBOX THREE-GANG STEEL FLOOR BOX #88053 WITH 2 DUPLEX 20AMP RECEPTACLE AND ADDITIONAL GANG FOR COMMUNICATIONS OR EQUAL APPROVED. PROVIDE WITH COMBINATION CARPET AND TILE FLANGE #837B WITH (2) BRASS DUPLEX COVER PLATES #828R AND(1) BRASS COMMUNICATION COVER PLATE #828COMTC.
	4" SQ. DEEP BOX WITH SINGLE DEVICE PLASTER RING FOR DATA/TEL. SYSTEM OUTLET AT 18" AFF TO CENTER UNLESS OTHERWISE NOTED. INSTALL 1" COND. WITH BUSHING AND PULL-STRING. STUB-OUT CONDUIT ABOVE NEAREST ACCESSIBLE LAY-IN CEILING.
	UNDERGROUND CONDUIT WITH PULLSTRING AND END BUSHINGS INSTALLED TO NEAREST WALL AND THEN STUBBED ABOVE NEAREST ACCESSIBLE LAY- IN CEILING.
	STUBBED-OUT CONDUIT ABOVE ACCESSIBLE LAY-IN CEILING.
	CONDUIT SLEEVE
	DUCT SMOKE DETECTOR. LABEL DENOTES ASSOCIATED UNIT.
	DUCT SMOKE TEST/ANNUNCIATOR SWITCH
	3/4" THICK FIRE RETARDANT TELEPHONE BOARD.
	2"WX10"LX3/4" THICK GROUNDING TERMINAL BAR.
	STUBBED-OUT CONDUIT
	TELEPHONE HINGED LOCKABLE CABINET TYPE 3R WHEN INSTALLED OUTDOORS. SEE PLANS FOR BOX SIZE.

ES
2dio

architecture

Enrique Escobedo, AIA
Ph: 915.503-8428
E-mail: eesc@live.com



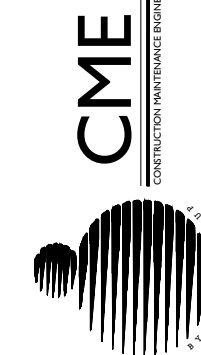
E-mail: luminadesignstudio1@gmail.com

i1 Warehouse & Office

for:

ICOMSA, LLC

140 RAY WARD PL SANTA TERESA, NM 88008



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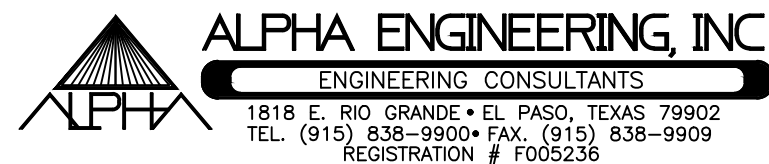
Number	Date	Description

Engineer's Seal:



Date:	07.03.24
Revised:	--
Project No.	P2439
Drawn By:	AE
Checked By:	FOFP
File Name:	
Sheet Title:	SPECIAL SYSTEMS PLAN 1ST FLOOR
Sheet No.	

E4.0





- ① PROVIDE AND INSTALL A 12"x12"x8"DEEP HINGED TELEPHONE BOX MOUNTED ON WALL AT 10'-0" A.F.F.
- ② PROVIDE AND INSTALL A 2" CONDUIT WITH PULLSTRING AND END BUSHINGS FROM TELEPHONE BOX TO ABOVE ACCESSIBLE LAY-IN CEILING IN OFFICE 114 AS SHOWN. INSTALL A CONDUIT ABOVE IN CEILING SPACE.
- ③ PROVIDE AND INSTALL A 2" CONDUIT SLEEVE ABOVE IN CEILING SPACE.
- ④ PROVIDE AND INSTALL A 1" UG CONDUIT FROM COMMUNICATIONS SIDE OF FLOOR BOX TO NEAREST WALL AS SHOWN. RUN CONDUIT RECESSED IN WALL A STUB-OUT ABOVE NEAREST ACCESSIBLE LAY-IN CEILING AS SHOWN.
- ⑤ PROVIDE AND INSTALL A 3/4" UG CONDUIT FROM COMMUNICATIONS SIDE OF FLOOR BOX TO THE OTHER FLOOR BOX COMMUNICATIONS SIDE AS SHOWN.
- ⑥ STUB-OUT THE 3/4" CONDUIT ABOVE ACCESSIBLE LAY-IN CEILING IN THIS OFFICE.
- ⑦ PROVIDE AND INSTALL A DUCT SMOKE DETECTOR WITH A REMOTE TEST/ANNUNCIATOR SWITCH MOUNTED ON WALL AT 48" A.F.F. MAKE CONNECTIONS TO UNIT AS REQUIRED.

[illegible]

Sheet No. _____

 **ALPHA ENGINEERING, INC.**
ENGINEERING CONSULTANTS
1818 E. RIO GRANDE • EL PASO, TEXAS 79902
TEL. (915) 838-9900 • FAX. (915) 838-9909
REGISTRATION # F005236

PANELBOARD SCHEDULE									
PANELBOARD "H": 277/480V, 3 PHASE, 4 WIRE, 400AMP. 300AMP MAIN C.B. SURFACE MOUNTED, COPPER BUS, DOOR-WITHIN-DOOR, 22KAIC									
LOAD SERVED	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED			
ACU-1 480V, 3PH, 14 MCA	1	20		20	2	ACU-2 480V, 3PH, 14 MCA			
	3			3	4				
	5	3		6					
ACU-3 480V, 3PH, 23 MCA	7	35		90	8	TRANSFORMER 'TXP1A' 75KVA, 3PH,			
	9			3	10				
	11	3		12					
SPACE	13	--		20/1	14	EXTERIOR LIGHTS			
SPACE	15	--		20/1	16	FIRST FLOOR LIGHTS			
SPACE	17	--		20/1	18	SECOND FLOOR LIGHTS			
SPACE	19	--		20/1	20	WAREHOUSE OFFICE LIGHTS			
SPACE	21	--		20/1	22	WAREHOUSE LIGHTS CKT#1			
SPACE	23	--		20/1	24	WAREHOUSE LIGHTS CKT#2			
SPACE	25	--		--	26	SPACE			
SPACE	27	--		--	28	SPACE			
SPACE	29	--		--	30	SPACE			
SPACE	31	--		--	32	SPACE			
SPACE	33	--		--	34	SPACE			
SPACE	35	--		--	36	SPACE			
SPACE	37	--		--	38	SPACE			
SPACE	39	--		--	40	SPACE			
SPACE	41	--		--	42	SPACE			

PANELBOARD 'M' LOAD CALCULATIONS

	LOAD (VA)
ACU-1	11,634
ACU-2	11,634
ACU-3	19,113
TRANSF. 'TXP1A'	55,562
LIGHTING @125%	15,043
TOTAL	113,076 VA

I = 113,076VA / (480V)(1.73) = 136 AMPS
400AMP, 277/480V, 3 PH., 4W PANELBOARD 'H' FED FROM THE MAIN 400AMP DISCONNECT SWITCH WITH 3" CONDUIT WITH 4-#350 MCM CU. CONDRS AND 1-#4 CU. GND.

PANELBOARD SCHEDULE									
PANELBOARD "P1A": 120/208V, 3 PHASE, 4 WIRE, 225AMP. 200AMP MAIN C.B. SURFACE MOUNTED, COPPER BUS, DOOR-WITHIN-DOOR, 14KAIC									
LOAD SERVED	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED			
PANEL 'P1B' 125 AMP 120/208V	1	100		80	2	PANEL 'P2' 125 AMP 120/208V			
	3			3	4				
	5	3		6					
TELEPHONE BOARD OUTLETS	7	20/1		15	8	WH-2 208V, 3PH, 4.5KW			
RISER RM HEATER	9	20/1		3	10				
WAREHOUSE EAST RECEPS	11	20/1		3	12				
RM 114 113 112 RECEPS	13	20/1		20/1	14	RR RECEPS/EXHAUST			
EWC	15	20/1		20/1	16	BREAK RM RECEPS			
COWORK RECEPS	17	20/1		20/1	18	BREAK RM RECEPS			
LOBBY RECEPS	19	20/1		20/1	20	FRIDGE			
FB 1	21	20/1		20/1	22	OFFICE 105 RECEPS			
FB 2	23	20/1		20/1	24	OFFICE 104 103 RECEPS			
FB 3	25	20/1		20/1	26	BACK FLOW HEATERS			
FB 4	27	20/1		--	28	SPACE			
SPACE	29	--		--	30	SPACE			
SPACE	31	--		--	32	SPACE			
SPACE	33	--		--	34	SPACE			
SPACE	35	--		--	36	SPACE			
SPACE	37	--		--	38	SPACE			
SPACE	39	--		--	40	SPACE			
SPACE	41	--		--	42	SPACE			

(1) THIS CIRCUIT BREAKER TO BE GFCI TYPE.

PANELBOARD 'P1A' LOAD CALCULATIONS

	LOAD (VA)
PANEL 'P1B'	26,826
PANEL 'P2'	13,536
RECEPTACLES	6,500
EWC	1,200
FRIDGE	1,500
WH-2	4,500
EH-1	1,500
TOTAL	55,562 VA

I = 55,562VA / (208V)(1.73) = 154 AMPS
225AMP, 120/208V, 3 PH., 4W PANEL 'P1A' FED FROM PANELBOARD 'H' VIA 75KVA TRANSFORMER, WITH 2 1/2" CONDUIT WITH 4-#3/0 THWN. CU. CONDRS. AND 1-#4 CU. GND.

PANELBOARD SCHEDULE									
PANELBOARD "P1B": 120/208V, 3 PHASE, 4 WIRE, 125AMP. 125AMP M.L.O. SURFACE MOUNTED, COPPER BUS, DOOR-WITHIN-DOOR, 14KAIC									
LOAD SERVED	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED			
WAREHOUSE EVAPORATIVE COOLER #1 AND #2	1	15		15	2	WAREHOUSE EVAPORATIVE COOLER #5 AND #6			
	3			3	4				
	5	3		6					
WAREHOUSE EVAPORATIVE COOLER #3 AND #4	7	15		15	8	WAREHOUSE EVAPORATIVE COOLER #7 AND #8			
	9			3	10				
	11	3		3	12				
ACU-4 208, 3PH, 16.5 MCA WAREHOUSE OFFICES	13	25		15	14	WH-1 208V, 3PH, 3KW			
	15			3	16				
	17	3		3	18				
WAREHOUSE HEATERS	19	20/1		20/1	20	EC #1,2,3,4 PUMPS/CONTROLS			
WAREHOUSE NW RECEPS.	21	20/1		20/1	22	EC #5,6,7,8 PUMPS/CONTROLS			
OFFICE 300 RECEPS.	23	20/1		20/1	24	ROOF TOP RECEPTACLES			
WAITING RM RECEPS.	25	20/1		20/1	26	WAREHOUSE OFFICE LIGHTS			
RESTROOM RECEPS.	27	20/1		20/1	28	ROLLING DOOR 1 MOTOR			
WAREHOUSE SOUTH RECEPS.	29	20/1		20/1	30	ROLLING DOOR 2 MOTOR			
LOADING DOCK 1	31	20/1		20/1	32	ROLLING DOOR 3 MOTOR			
LOADING DOCK 2	33	20/1		20/1	34	ROLLING DOOR 4 MOTOR			
LOADING DOCK 3	35	20/1		--	36	SPACE			
LOADING DOCK 4	37	20/1		--	38	SPACE			
SPACE	39	--		--	40	SPACE			
SPACE	41	--		--	42	SPACE			

PANELBOARD 'P1B' LOAD CALCULATIONS

	LOAD (VA)
EC @ 1HD (x4)	6,624
ACU-4	5,940
WH-1	3,000
RECEPTS	5,040
LIGHTING @25%	500
ROLLING DOORS (x4) @40%	2,650
LOADING DOCKS (x4) @40%	3,072
TOTAL	26,826 VA

I = 26,826VA / (208V)(1.73) = 74 AMPS
125AMP, 120/208V, 3PH., 4W PANELBOARD 'P1B' FED FROM A 100AMP/3 POLE C.B. IN PANELBOARD 'P1A' WITH A 2" C. WITH 4-#1/0 THWN. CU. CONDRS. AND 1-#6 CU. GND.

PANELBOARD SCHEDULE									
PANELBOARD "P2": 120/208V, 3 PHASE, 4 WIRE, 125AMP. 125AMP M.L.O. SURFACE MOUNTED, COPPER BUS, DOOR-WITHIN-DOOR, 14KAIC									
LOAD SERVED	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED			
208 RM RECEPTACLES	1	20/1		20	2	CU-1 208V, 17 MCA,			
RESTROOM RECEPTACLES	3	20/1		2	4				
COWORK RECEPTACLES	5	20/1		20/1	6	COWORK AREA FLOOR BOXES 3			
OFFICE 204 RECEPS.	7	20/1		20/1	8	COWORK AREA FLOOR BOXES 4			
OFFICE 203 RECEPS.	9	20/1		20/1	10	COWORK AREA FLOOR BOXES 5			
OFFICE 201 RECEPS.	11	20/1		20/1	12	COWORK AREA FLOOR BOXES 6			
COWORK AREA FLOORBOXES 1	13	20/1		20/1	14	BOARD ROOM RECEPS.			
COWORK AREA FLOORBOXES 2	15	20/1		20/1	16	BOARD ROOM FLOOR BOX.			
SPACE	17	--		--	18	SPACE			
SPACE	19	--		--	20	SPACE			
SPACE	21	--		--	22	SPACE			
SPACE	23	--		--	24	SPACE			
SPACE	25	--		--	26	SPACE			
SPACE	27	--		--	28	SPACE			
SPACE	29	--		--	30	SPACE			

PANELBOARD 'P2' LOAD CALCULATIONS

	LOAD (VA)
CU-1 RECEPTACLES	3,536
	10,000
TOTAL	13,536 VA

I = 13,536 VA / (208V)(1.73) = 38 AMPS
125AMP, 120/208V, 3PH., 4W PANELBOARD 'P2' FED FROM A 80AMP/3 POLE C.B. IN PANELBOARD 'P1A' WITH A 1 1/4" C. WITH 4-#4 THWN. CU. CONDRS. AND 1-#8 CU. GND.

GENERAL NOTES:

- ELECTRICAL INSTALLATION MUST FOLLOW ALL NATIONAL AND LOCAL ELECTRICAL CODES. INSTALLATION MUST CONFORM TO THE LOCAL POWER COMPANY'S SPECIFICATIONS.
- ELECTRICAL CONTRACTOR MUST COORDINATE AND VERIFY WITH MECHANICAL AND PLUMBING CONTRACTOR THE LOCATION AND ELECTRICAL REQUIREMENTS TO ALL A/C EQUIPMENT, MOTORS, PUMPS, T-STATS., INTERLOCKING WIRING, ETC.
- ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION AND SHALL BE LISTED BY THE U.L.
- ELECTRICAL CONTRACTOR MUST COORDINATE ALL POWER SERVICE ON THIS PROJECT WITH HUMBERTO MENDEZ FROM EPEC @ (915)543-5842. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES FOR TEMPORARY SERVICE.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND INSPECTION FEES REQUIRED BY THE GOVERNING BODIES.
- ELECTRICAL CONTRACTOR MUST COMPLY WITH THE LATEST A.D.A. REQUIREMENTS.
- MINIMUM SIZE CONDUCTORS SHALL BE #12 THWN CU. UNLESS NOTED OR SIZED BY CODE.
- ALL WIRING MUST BE IN CONDUIT, INCLUDING ALL L.V. WIRING. THIN WALL CONDUIT (EMT) CAN BE INSTALLED CONCEALED ABOVE CEILING, IN FURRED WALLS, AND WALLS EXCEPT WHERE THOSE WALLS ARE GROUTED SOLID. USE FLEX CONDUIT FOR MOTORS AND LIGHTING
- FIXTURES. USE WATER TIGHT FLEX CONDUIT FOR WATER HEATERS DISPOSALS, EXTERIOR CONNECTIONS, ETC. BOND ACCORDING TO CODE.
- VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND RACEWAY ROUTES WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
- CONTRACTOR TO COORDINATE NEW SERVICE WITH OWNER AND LOCAL UTILITY, AS SOON AS CONTRACT IS LET.
- ELECTRICAL DEVICE INSTALLATION SHALL COMPLY WITH ACCESSIBILITY CODES ADOPTED BY NEW MEXICO STATE.
- FEEDER, BRANCH CIRCUIT DESIGN, AND INSTALLATION SHALL COMPLY WITH THE LATEST ADOPTED NEW MEXICO ELECTRICAL CODE 14.10.4 AND NFPA 70 (NEC).
- ALL ELECTRICAL EQUIPMENT IN FIRE RATED ASSEMBLIES MUST BE INSTALLED SO THAT FIRE RATING IS NOT COMPROMISED. ELECTRICAL CONTRACTOR MUST INSTALL FIRE-STOPPING SEALS AND MATERIALS AS NECESSARY ON ALL PENETRATIONS MADE ON ALL FIRE RATED ASSEMBLIES TO MATCH FIRE RATING.
- BRANCH CIRCUIT NUMBERS ARE TO BE WRITTEN WITH BLACK INK MARKERS ON ALL COVERS OF ALL JUNCTION BOXES LOCATED ABOVE CEILING. MARKINGS MUST INDICATE THE PANEL AND CIRCUIT NUMBER OF CIRCUITS IN THAT BOX.
- ALL ELECTRICAL WIRING DEVICE COVER PLATES SHALL BE PROVIDED WITH AN ADHESIVE PERMANENT VINYL PRINTED LABEL INDICATING PANEL NAME AND CIRCUIT NUMBER. I.E. 'X'- 'XX' WHERE 'X' IS THE PANEL NAME AND 'XX' IS THE CIRCUIT NUMBER.
- PROVIDE AND INSTALL 15A & 20A, 125 AND 250-VOLT NON-LOCKING LISTED TAMPER-RESISTANT RECEPTACLES WHEN REQUIRED BY NEC ART 406.12.
- ALL GFCI RECEPTACLES MUST BE INSTALLED IN A READILY ACCESSIBLE LOCATION TO COMPLY WITH NEC ART 210.8. WHEN RECEPTACLE MUST BE PROVIDED WITH GFCI PROTECTION, BUT IS NOT READILY ACCESSIBLE, THE RECEPTACLE MUST BE PROTECTED WITH A GFCI CIRCUIT BREAKER.
- EXTERIOR LIGHTING SHALL COMPLY WITH THE NEW MEXICO NIGHT SKY PROTECTION ACT IN THAT ALL FIXTURES WILL BE FULL CUT-OFF AND HAVE LESS THAN SEVENTY (70) LUMENS AT GROUND LEVEL.
- MC CABLE IS NOT ALLOWED FOR ELECTRICAL INSTALLATIONS EXCEPT FOR LIGHT FIXTURE WHIPS WHICH MUST NOT EXCEED 6FT IN LENGTH.

KEYED NOTES:

- CONTRACTOR SHALL COORDINATE WITH HUMBERTO MENDEZ FROM EPEC @ (915) 543-5842 FOR NEW ELECTRICAL SERVICE AND REQUIREMENTS
- PROVIDE AND INSTALL AN ASTRONOMICAL TIME CLOCK SWITCH INTERMATIC MODEL #ET2845C OR EQUAL APPROVED TO CONTROL EXTERIOR LIGHTS.
- EVAPORATIVE COOLERS' CONTROL STATION TO BE INSTALLED NEXT TO PANEL 'P1B'. REFER TO EVAPORATIVE COOLER CONTROL STATION DETAIL 3/E3.1 ON SHEET E3.1.

