



# DULUTH INTERNATIONAL AIRPORT NEW PASSENGER TERMINAL BUILDING

Director of Airports: Brian Ryks  
4701 GRINDEN DRIVE - DULUTH INTERNATIONAL AIRPORT  
DULUTH, MINNESOTA 55811

FAA AIP NO. \_\_\_\_\_  
RS&H PROJ. NO. 213-1882-091

## DULUTH AIRPORT AUTHORITY BOARD OF DIRECTORS

- President: Nancy Norr
- Vice President: John Eagleton
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- Roger Wedin
- Michael Lundstrom

## VOLUME 1 OF 2



90% REVIEW  
NOT FOR CONSTRUCTION

CIVIL CERTIFICATION  
I hereby certify that the civil plans, specifications or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Illinois.  
Print Name: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ License # \_\_\_\_\_

ARCHITECTURAL CERTIFICATION  
I hereby certify that the architectural plans, specifications, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Architect under the laws of the State of Illinois.  
Print Name: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ License # \_\_\_\_\_

STRUCTURAL CERTIFICATION  
I hereby certify that the structural plans, specifications, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Illinois.  
Print Name: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ License # \_\_\_\_\_

MECHANICAL CERTIFICATION  
I hereby certify that the mechanical plans, specifications, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Illinois.  
Print Name: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ License # \_\_\_\_\_

PLUMBING CERTIFICATION  
I hereby certify that the plumbing plans, specifications, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Illinois.  
Print Name: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ License # \_\_\_\_\_

ELECTRICAL CERTIFICATION  
I hereby certify that the electrical (power and lighting) plans, specifications, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Illinois.  
Print Name: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ License # \_\_\_\_\_

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501 LAKE AVENUE SOUTH  
SUITE 300  
DULUTH, MN 55802  
TEL: 218.722.1056  
FAX: 218.722.9306  
www.mbjeng.com



SJA Architects  
Architecture | Planning | Interior Design



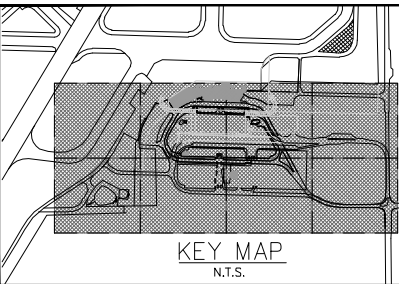
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DULUTH  
INTERNATIONAL  
AIRPORT  
DULUTH, MN

NEW PASSENGER  
TERMINAL

CONSULTANTS

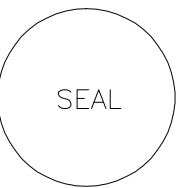
Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street, Suite 340, Duluth MN 55802  
TEL: (218) 734-8578 / FAX: (218) 734-8717

Structural Engineers:  
**MBJ CONSULTING ENG.**  
601 Lake Avenue South, Suite 200, Duluth MN 55802  
TEL: (218) 722-1008 / FAX: (218) 722-8808

M/E/P/FP Engineers:  
**COSENTINI**  
1 East Wedder Drive, Suite 105, Chicago IL 60601  
TEL: (312) 870-1800 / FAX: (312) 870-1801

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101 East Ridge Office Park, Suite 100, Danbury CT 06810  
TEL: (203) 750-3000 / FAX: (203) 750-4000

Landscape Consultants:  
**APPOLD DESIGN**  
2432 East First Street, Duluth MN 55812  
TEL: (218) 691-0578



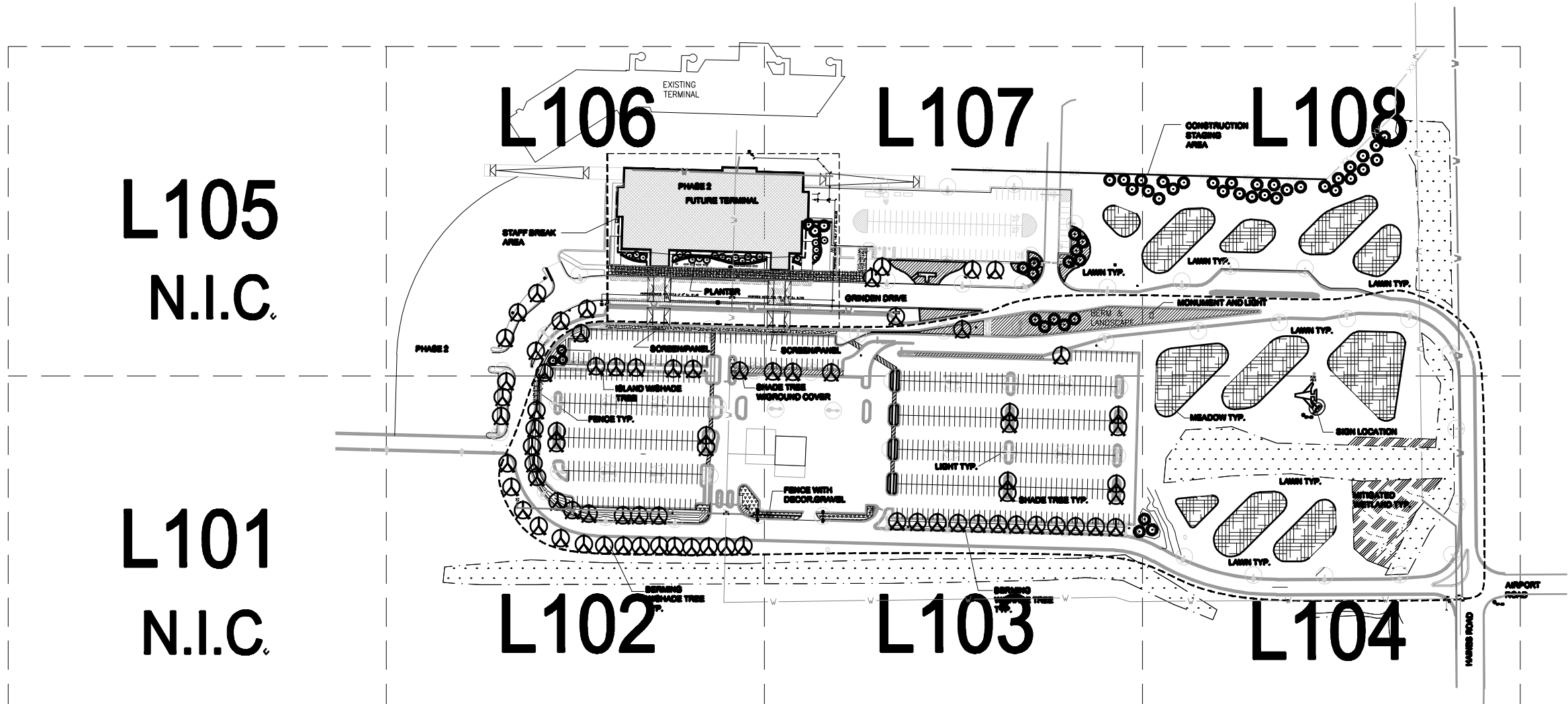
REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 3-29-2010  
REVIEWED BY: MMA  
DRAWN BY: SMW  
DESIGNED BY: MMA  
AEP PROJECT NUMBER  
213-1882-091  
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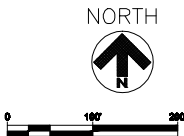
SHEET TITLE  
LANDSCAPE  
OVERALL  
PLAN

SHEET NUMBER  
L100  
OF

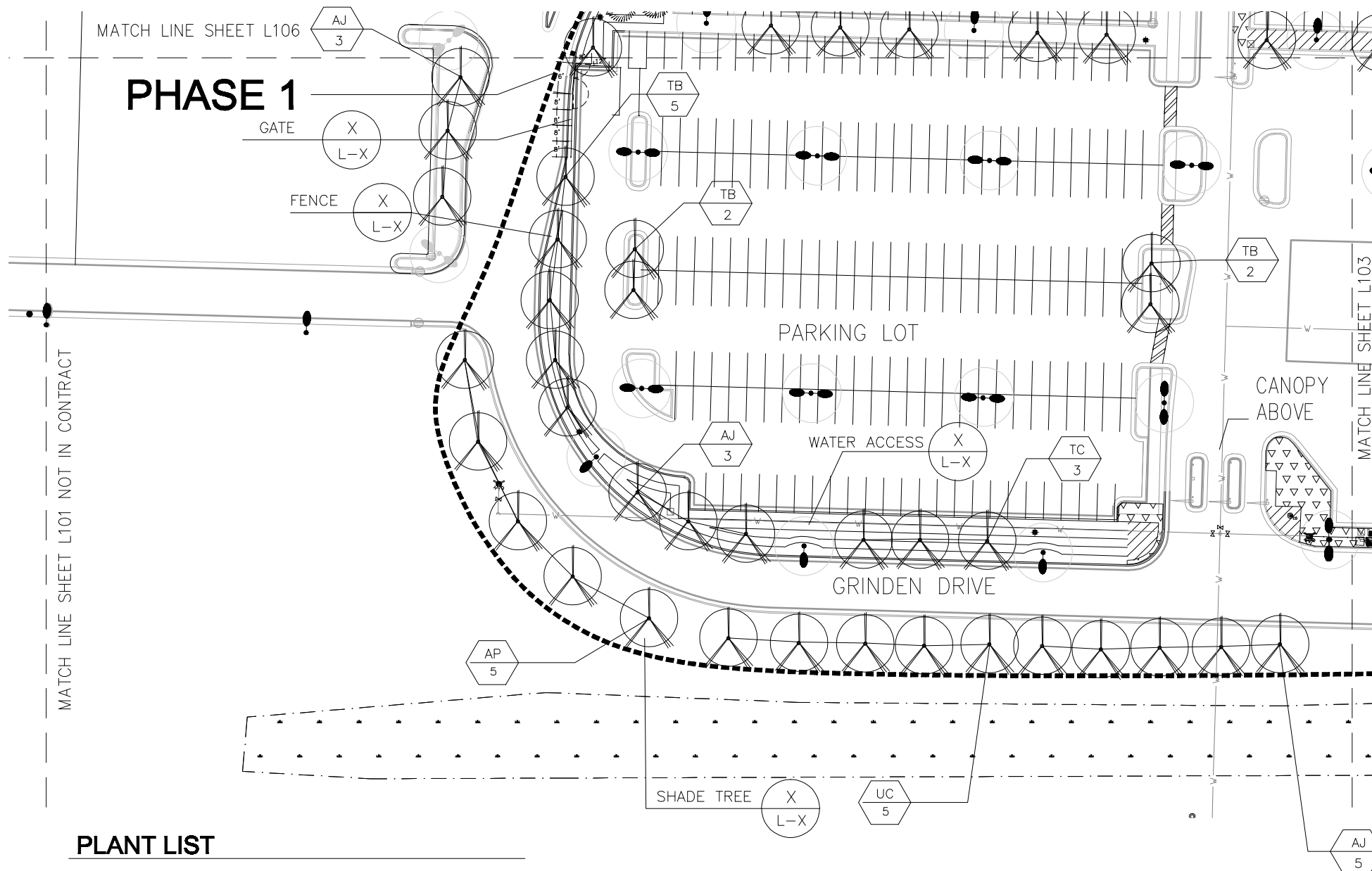
90% NOT FOR  
CONSTRUCTION



SITE PLAN

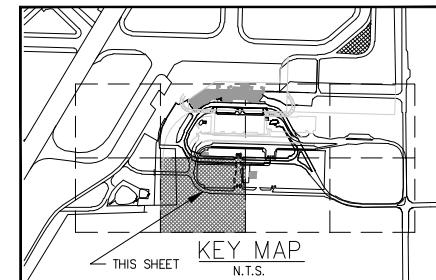






### PLANT LIST

QUAN.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.
11	AJ	Acer freemanii 'Autumn Blaze'	Autumn Blaze Maple	3.0" cal.	B&B
3	TC	Tilia cordata 'Green Spire'	Greenspire Linden	3.0" cal.	B&B
5	UC	Ulmus 'Cathedral'	Cathedral Elm	3.0" cal.	B&B
7	TB	Tilia americana 'Boulevard'	Boulevard Linden	3.0" cal.	B&B
5	AP	Acer platanoides 'Emerald Lustre'	Emerald Lustre Maple	3.0" cal.	B&B



### KEY

- ORNAMENTAL TREE
- EVERGREEN TREE
- LIGHT POLE
- WATER ACCESS



30' 15' 0' 30'

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AUTHORITY**

DULUTH  
INTERNATIONAL  
AIRPORT  
DULUTH, MN

NEW PASSENGER  
TERMINAL

#### CONSULTANTS

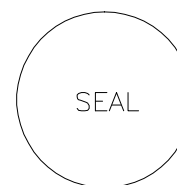
Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 340, Duluth MN 55802  
TEL: (218) 724-8878 / FAX: (218) 724-8717

Structural Engineers:  
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801 Lake Avenue South, Suite 300, Duluth MN 55802  
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Mechanical Engineers:  
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TEL: (218) 891-0016



REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 3-29-2010  
REVIEWED BY: MMA  
DRAWN BY: SMW  
DESIGNED BY: MMA

AEP PROJECT NUMBER  
213-1882-091  
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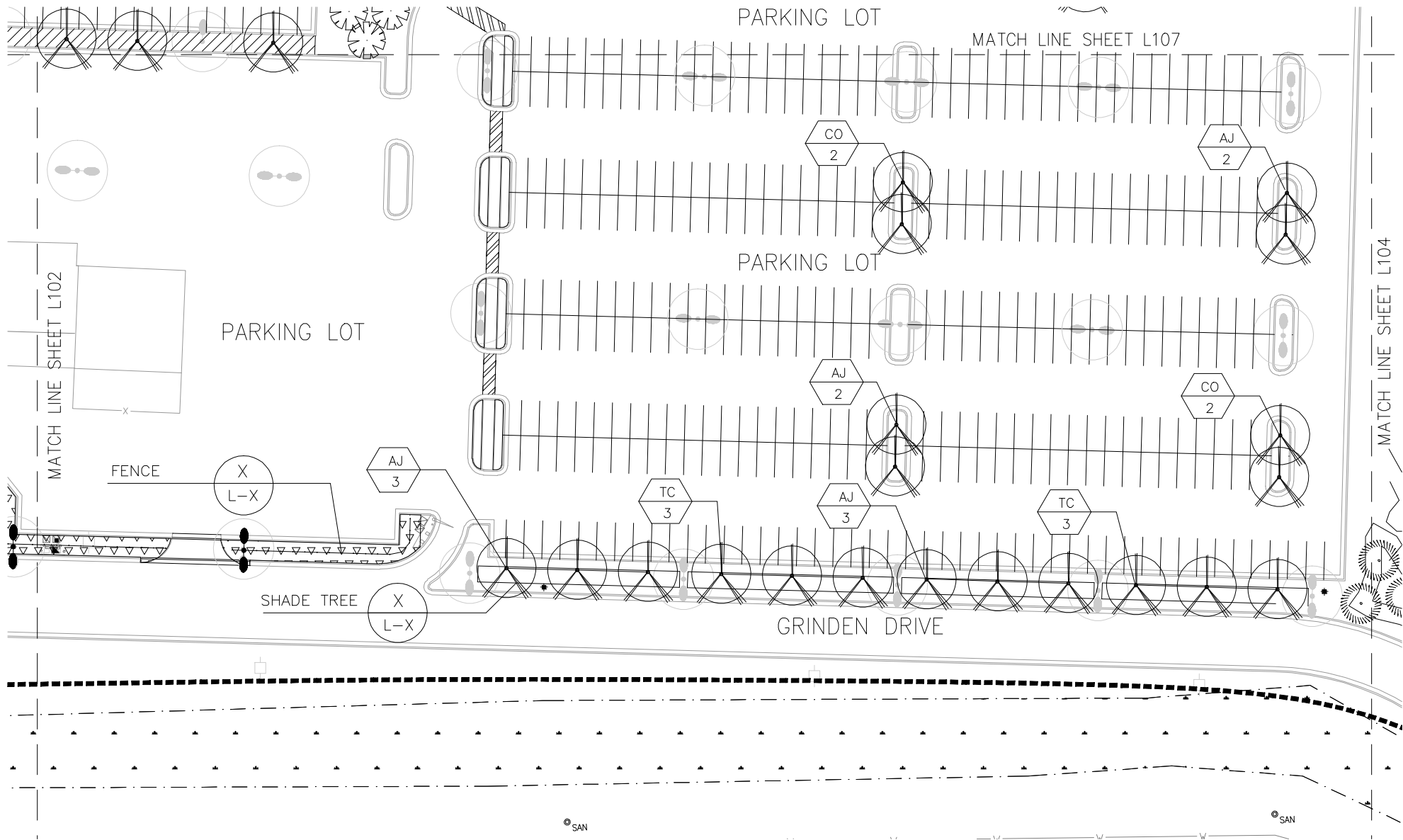
SHEET TITLE  
LANDSCAPE  
PLAN  
(AREA 2)

OF  
SHEET NUMBER  
L102

90% NOT FOR  
CONSTRUCTION

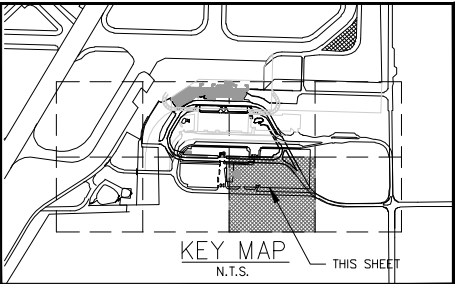
NOTE: L101 NOT IN CONTRACT





PLANT LIST

QUAN.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.
10	AJ	Acer freemanii "Autumn Blaze"	Autumn Blaze Maple	3.0"	B&B
6	TC	Tilia cordata "Green Spire"	Greenspire Linden	3.0"	B&B
4	CO	Celtis occidentalis	Hackberry	3.0"	B&B



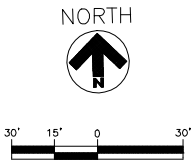
KEY

ORNAMENTAL TREE

EVERGREEN TREE

LIGHT POLE

WATER ACCESS



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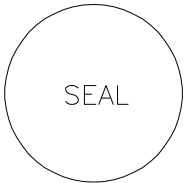
Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 540, Duluth MN 55802  
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Landscape Consultants:  
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REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 3-29-2010  
REVIEWED BY: MMA  
DRAWN BY: SMW  
DESIGNED BY: MMA  
AEP PROJECT NUMBER  
213-1882-091  
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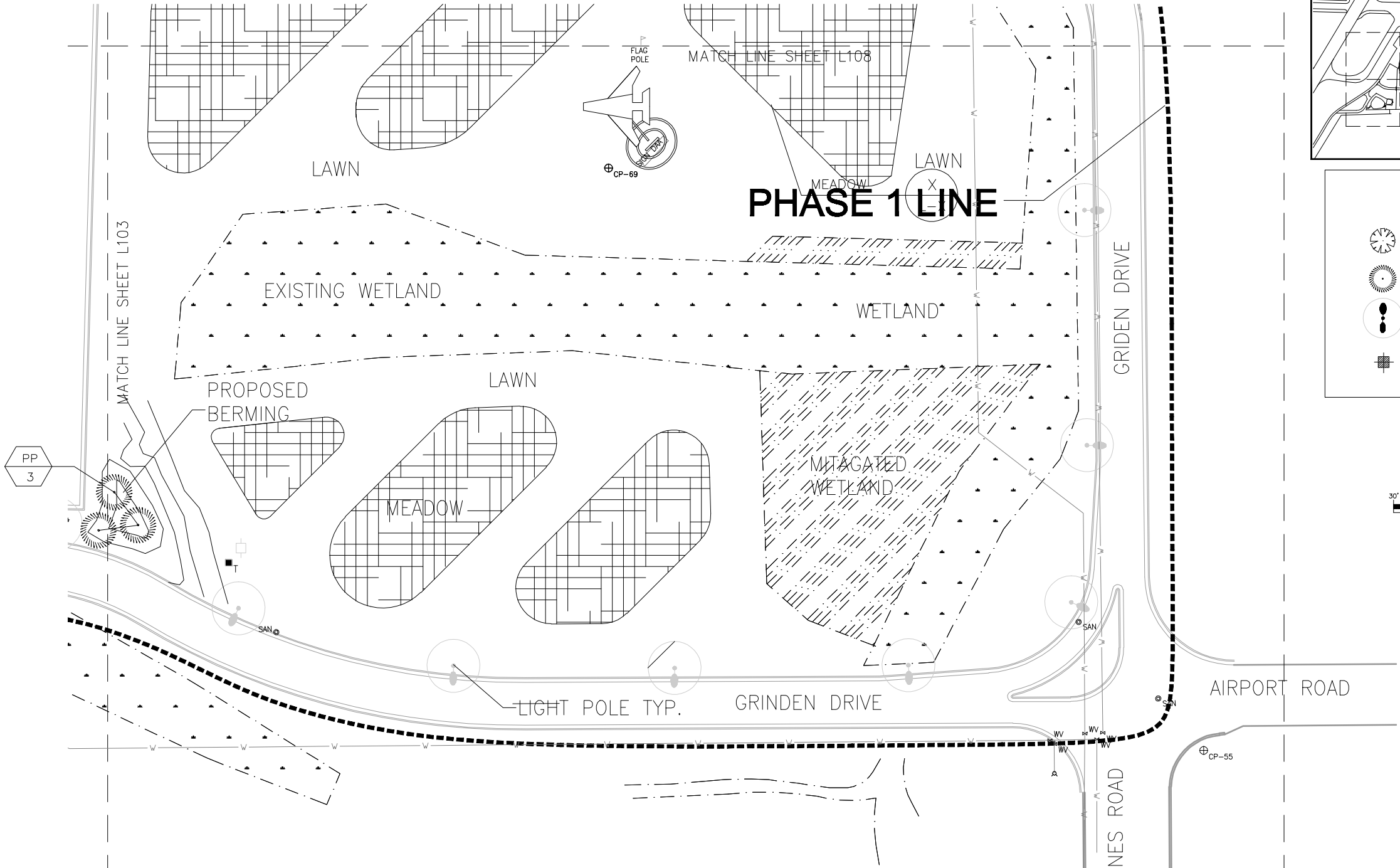
SHEET TITLE  
LANDSCAPE  
PLAN  
(AREA 3)

0 OF 0

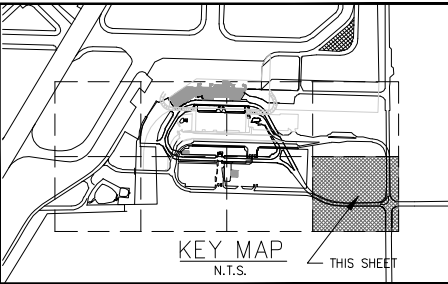
SHEET NUMBER  
L103

90% NOT FOR  
CONSTRUCTION





PLANT LIST					
QUAN.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.
x	PP	Celtis occidentalis	Hackberry	3.0"	B&B



KEY

ORNAMENTAL TREE

EVERGREEN TREE

LIGHT POLE

WATER ACCESS

NORTH30' 15' 0 30'

SEAL

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DULUTH INTERNATIONAL AIRPORT  
DULUTH, MN

NEW PASSENGER TERMINAL

CONSULTANTS

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MBJ CONSULTING ENG.  
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TEL: (218) 722-1008 / FAX: (218) 722-8808

M/E/P/FP Engineers:  
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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 3-29-2010  
REVIEWED BY: MMA  
DRAWN BY: JJB  
DESIGNED BY: MMA

AEP PROJECT NUMBER  
213-1882-091  
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SHEET TITLE  
LANDSCAPE PLAN  
(AREA 4)  
  
OF  
SHEET NUMBER  
L104

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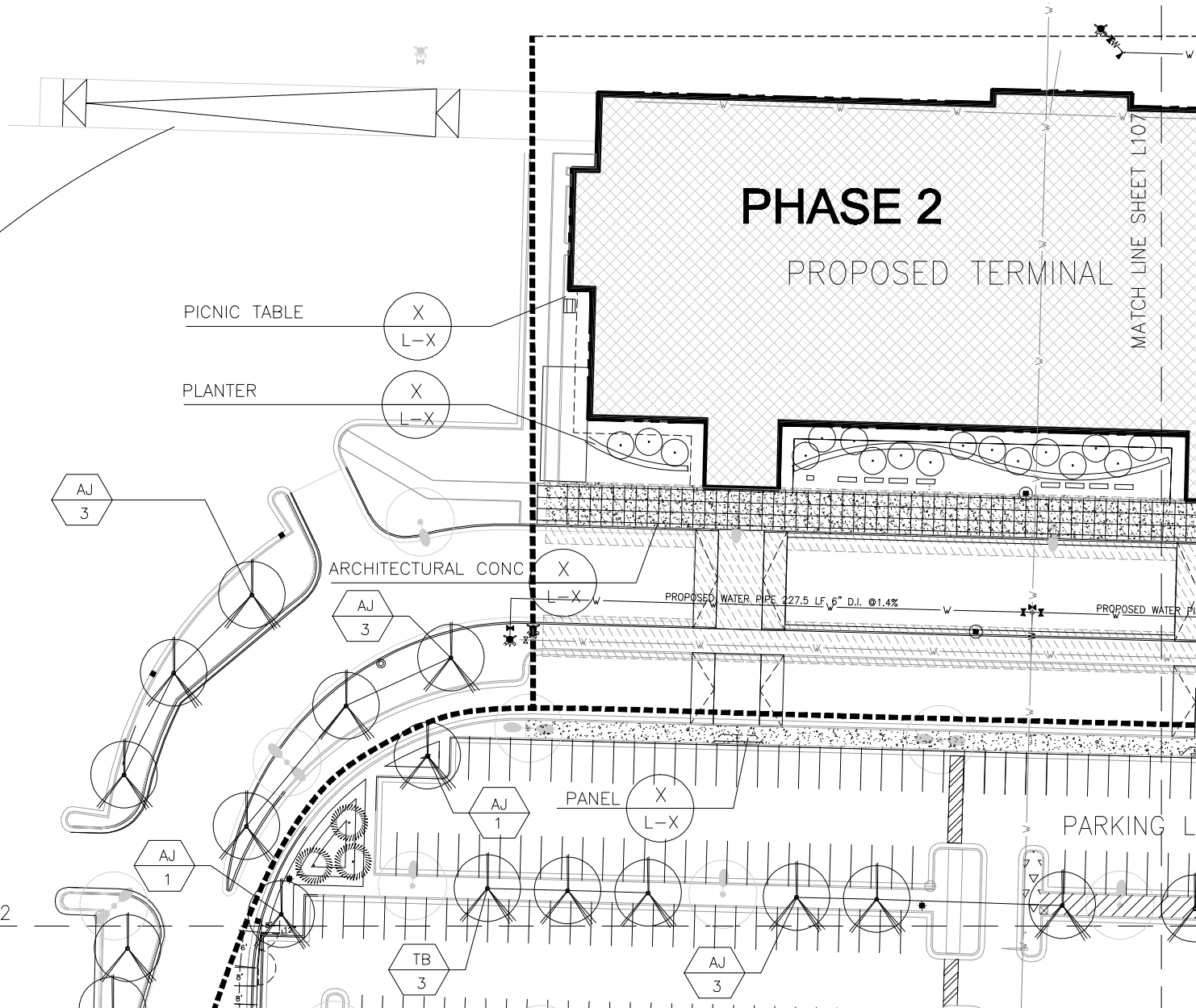


MATCH LINE SHEET L105 NOT IN CONTRACT

PHASE 2

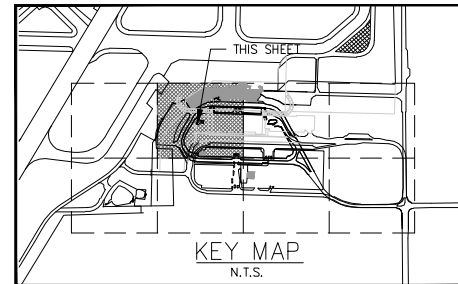
MATCH LINE SHEET L102

PHASE 1



PLANT LIST

QUAN.	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.
11	AJ	Acer freemanii "Autumn Blaze"	Autumn Blaze Maple	3.0"	B&B
3	TB	Tilia americana "Boulevard"	Boulevard Linden	3.0"	B&B



KEY

- ORNAMENTAL TREE
- EVERGREEN TREE
- LIGHT POLE
- WATER ACCESS



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DULUTH, MN

NEW PASSENGER  
TERMINAL

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TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
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M/E/P/FP Engineers:  
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Landscape Consultants:  
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2432 East First Street, Duluth MN 55812  
TEL: (218) 691-0078

SEAL

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 3-29-2010

REVIEWED BY: MMA

DRAWN BY: SMW

DESIGNED BY: MMA

AEP PROJECT NUMBER  
213-1882-091

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SHEET TITLE

LANDSCAPE  
PLAN  
(AREA 6)

OF

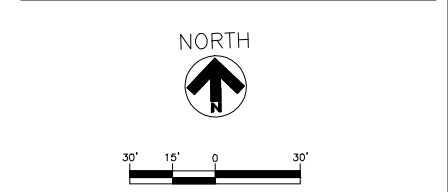
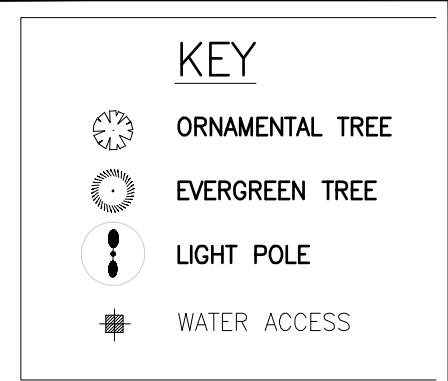
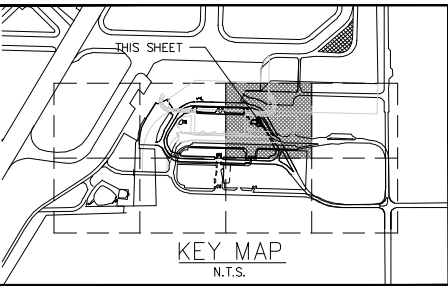
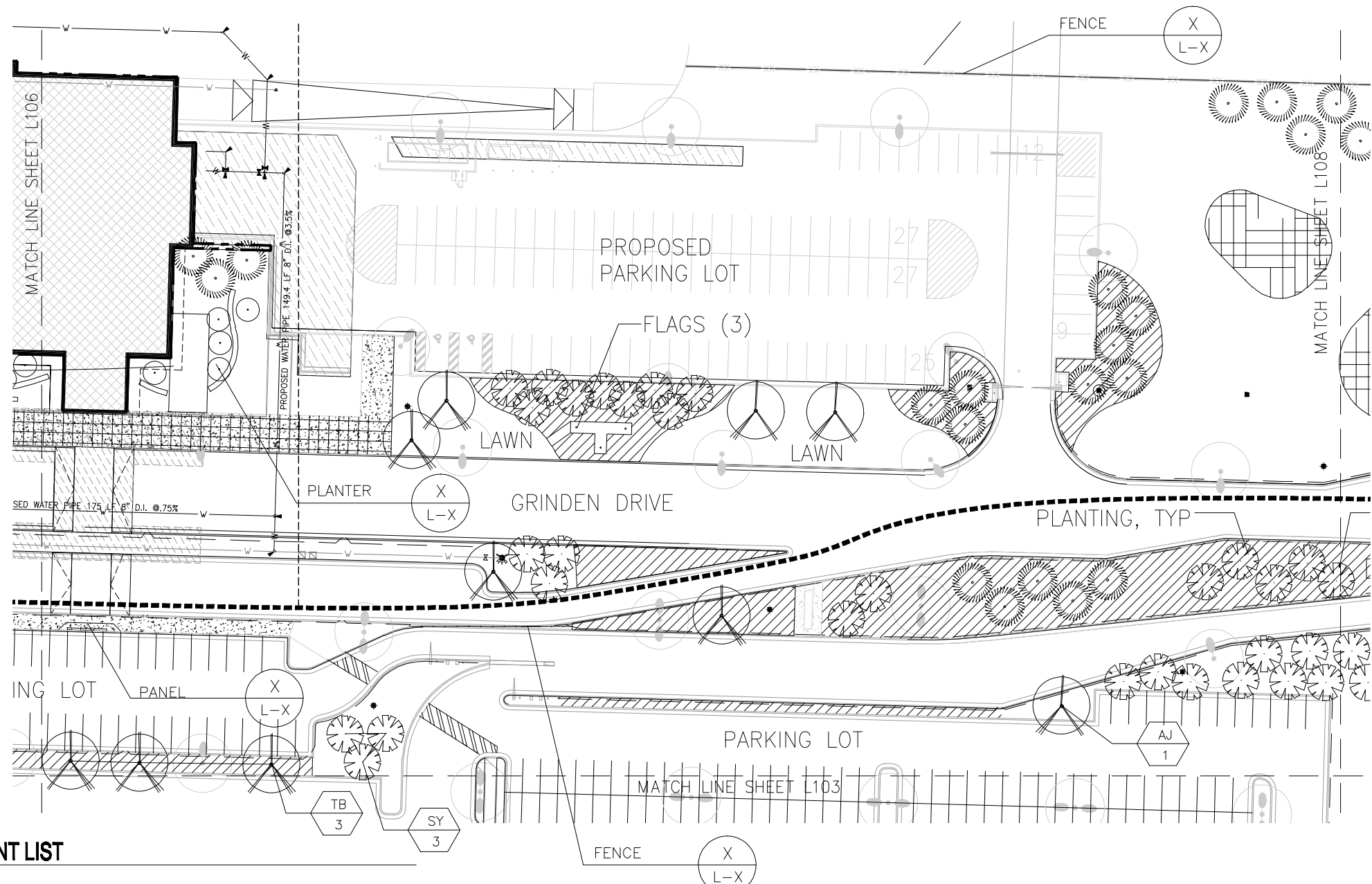
SHEET NUMBER

L106

90% NOT FOR  
CONSTRUCTION

NOTE: L105 NOT IN CONTRACT





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DULUTH, MN

NEW PASSENGER TERMINAL

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Landscape Consultants:  
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TEL: (218) 891-8878

SEAL

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 3-29-2010  
REVIEWED BY: MMA  
DRAWN BY: SMW  
DESIGNED BY: MMA

AEP PROJECT NUMBER  
213-1882-091

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SHEET TITLE  
LANDSCAPE PLAN  
(AREA 7)

OF

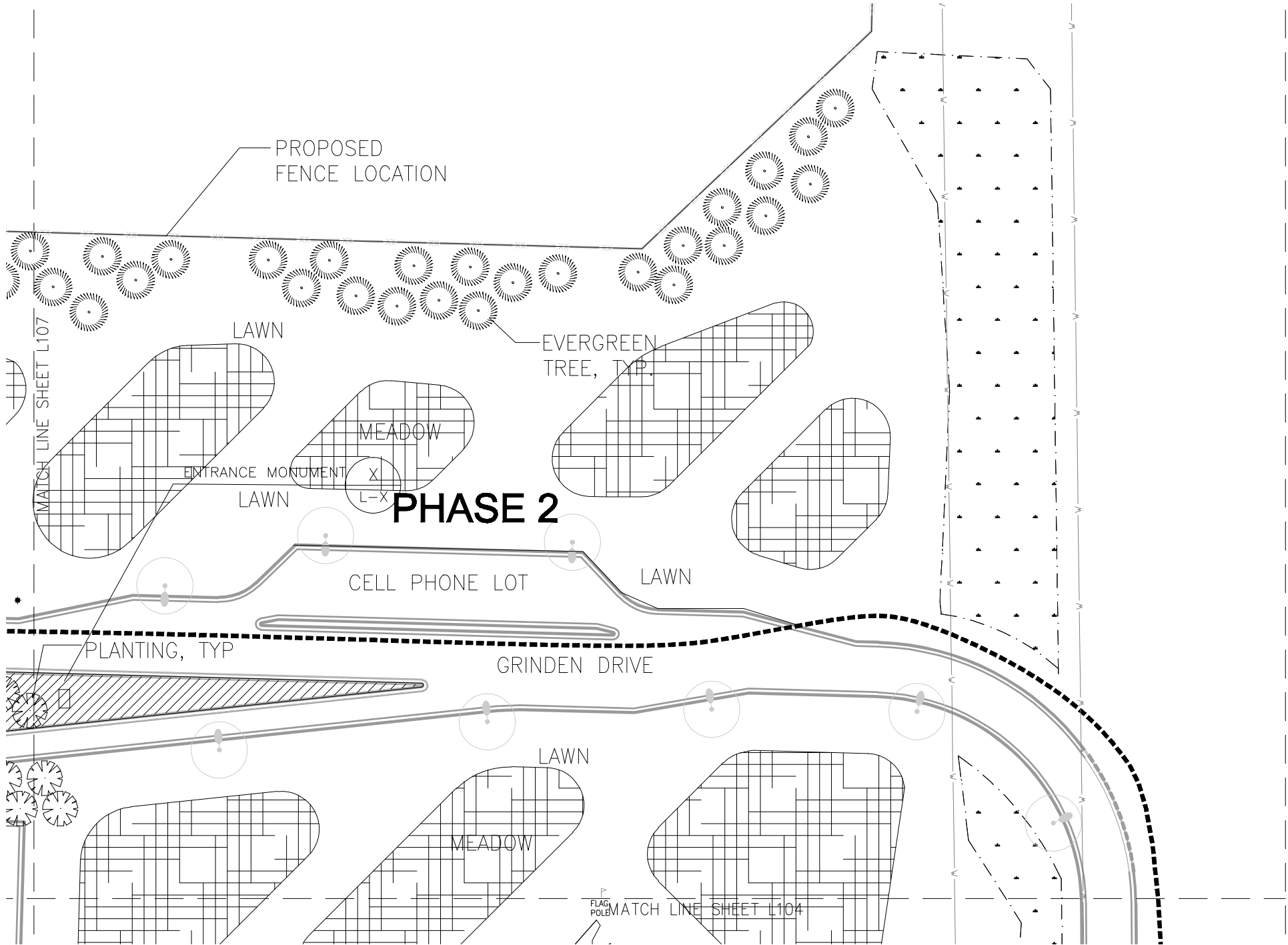
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L107  
XX OF XX

90% NOT FOR CONSTRUCTION

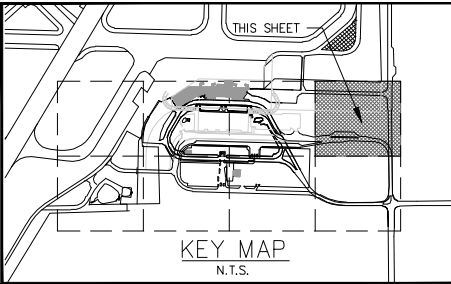
PLANT LIST

CODE	CODE	BOTANICAL NAME	COMMON NAME	SIZE	COND.
1	AJ	Acer freemanii "Autumn Blaze"	Autumn Blaze Maple	3.0"	B&B
3	TB	Tilia americana "Boulevard"	Boulevard Linden	3.0"	B&B
3	SY	Syringa	Japan Tree Lilac	3.0"	B&B





PLANT LIST



KEY

- ORNAMENTAL TREE
- EVERGREEN TREE
- LIGHT POLE
- WATER ACCESS



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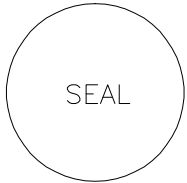
Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street, Suite 340, Duluth MN 55802  
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
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TEL: (218) 722-1008 / FAX: (218) 722-8808

M/E/P/FP Engineers:  
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Landscape Consultants:  
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2432 East First Street, Duluth MN 55812  
TEL: (218) 691-0578



REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 3-29-2010  
REVIEWED BY: MMA  
DRAWN BY: SMW  
DESIGNED BY: MMA  
AEP PROJECT NUMBER  
213-1882-091  
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SHEET TITLE

LANDSCAPE  
PLAN  
(AREA 8)

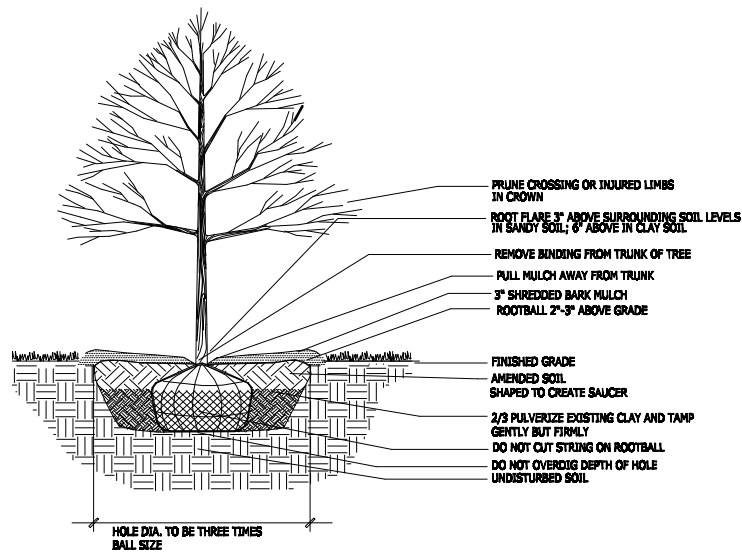
OF

SHEET NUMBER

L108

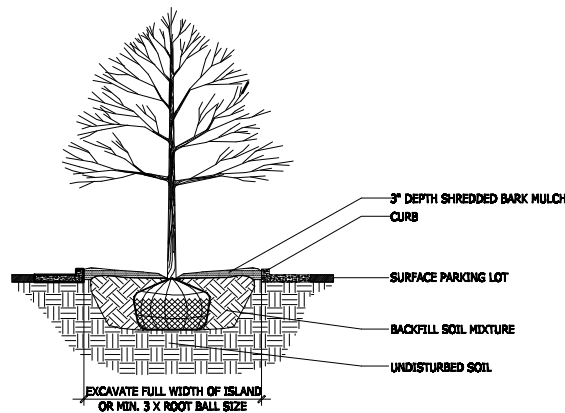
90% NOT FOR  
CONSTRUCTION





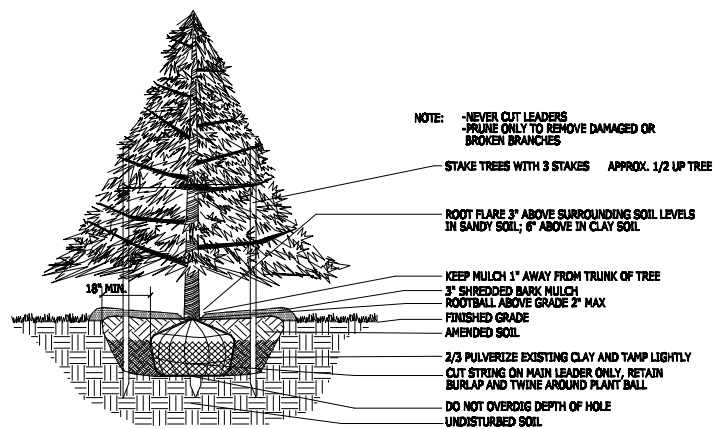
x  
L109

SHADE TREE



x  
L109

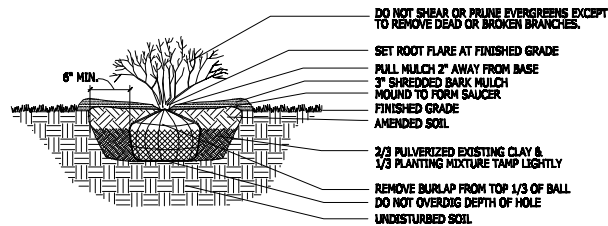
SHADE TREE IN PARKING LOT ISLAND



x  
L109

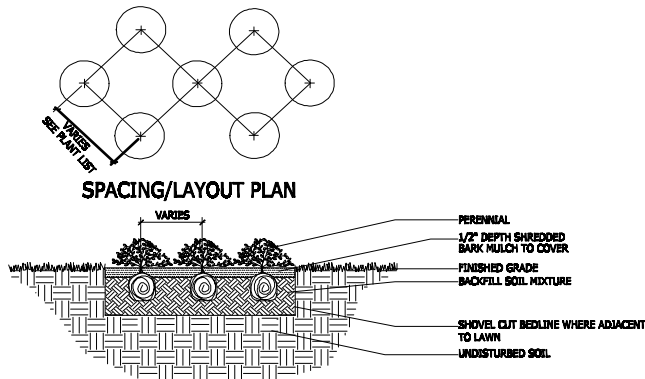
STAKED EVERGREEN W/ STAKES

N.T.S.



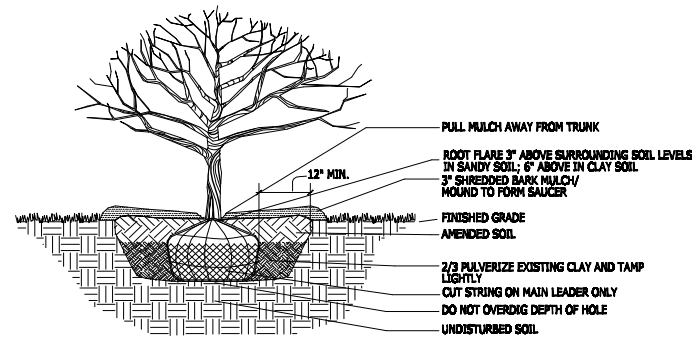
x  
L109

SHRUB PLANTING



x  
L109

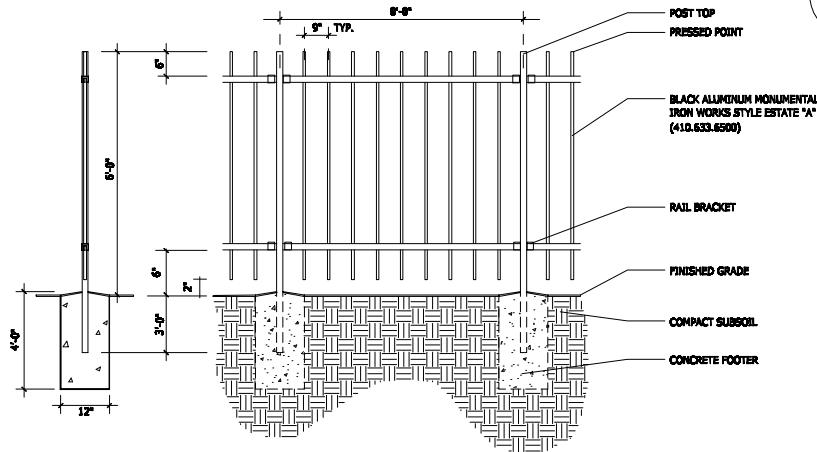
PERENNIAL PLANTING



x  
L109

ORNAMENTAL TREE

TO BE DETERMINED



x  
L109

METAL FENCE

TO BE DETERMINED

x  
L109

FLAG POLE

N.T.S.

x  
L109

PANEL

N.T.S.

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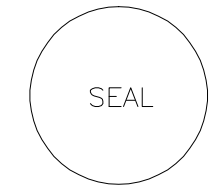
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SHEET TITLE  
LANDSCAPE NOTES  
AND DETAILS

SHEET NUMBER  
L109

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x  
L110

PLANTER

TO BE DETERMINED

1  
L110

6' STRIP @ BUILDING

TO BE DETERMINED

x  
L110

WATER ACCESS

TO BE DETERMINED

1  
L110

FENCE GATE

TO BE DETERMINED

1  
L110

STONE MONUMENT INSTALLATION

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1  
L110

FENCE SECTION

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1  
L110

ENTRANCE MONUMENT

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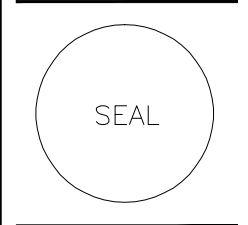
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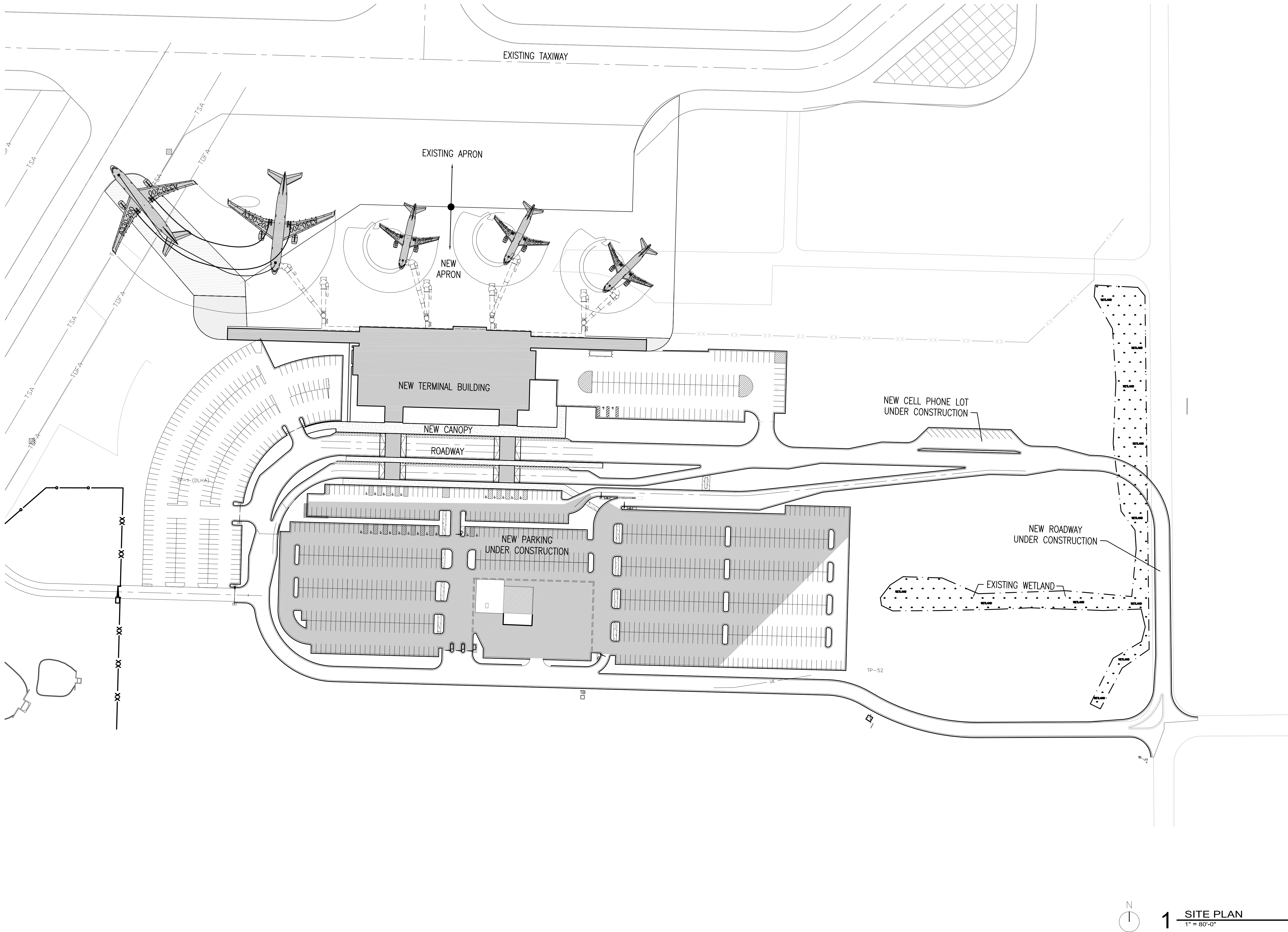
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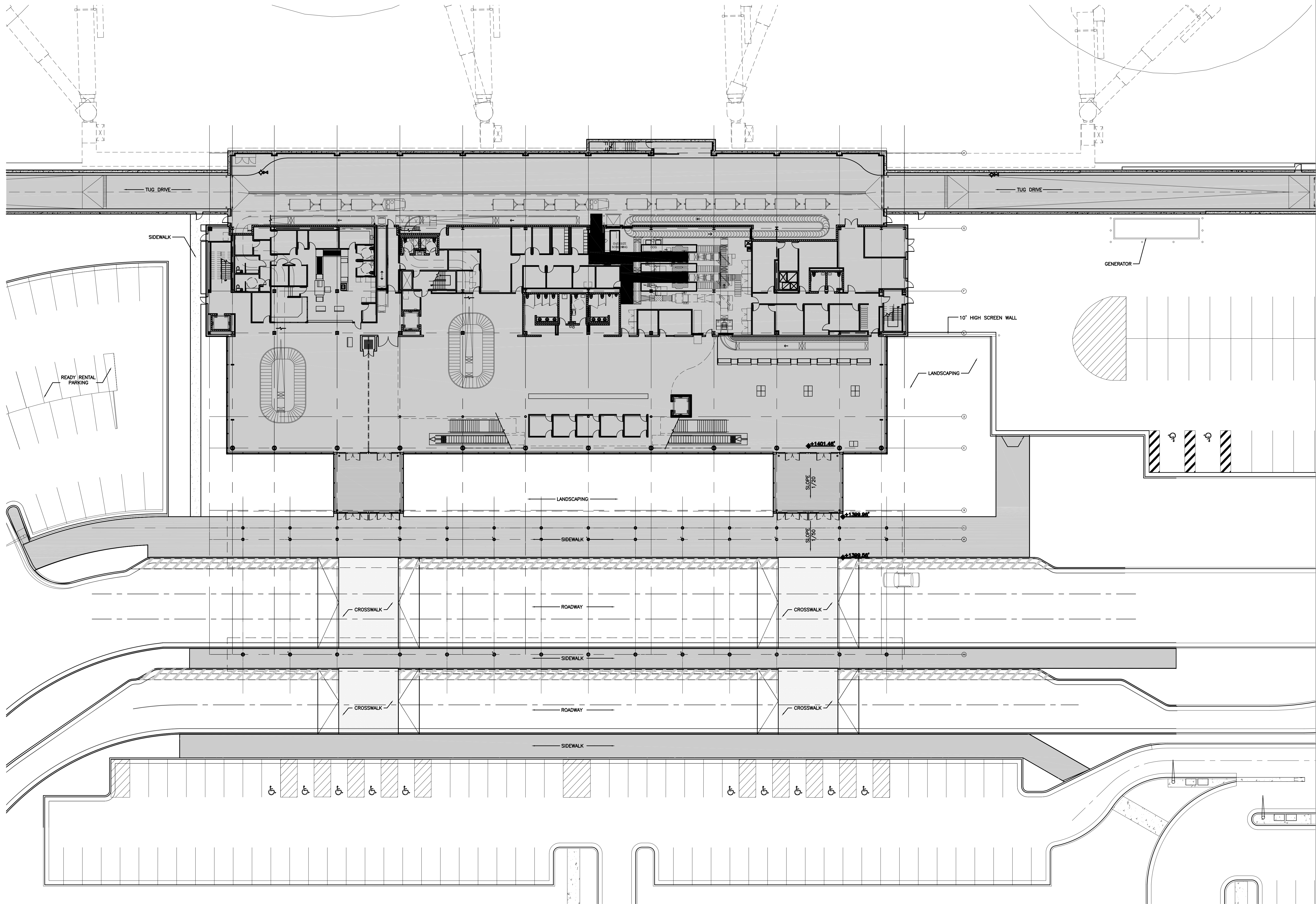
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SHEET TITLE  
**OVERALL  
SITE  
PLAN**

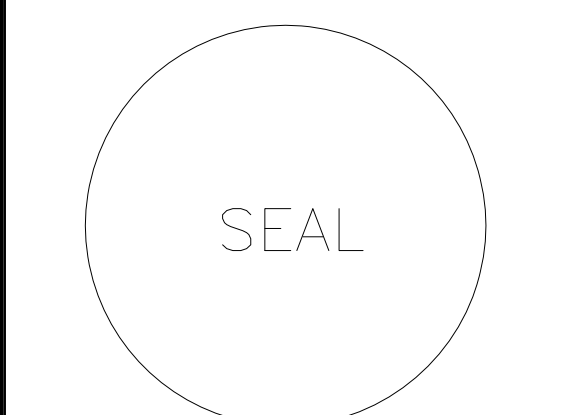
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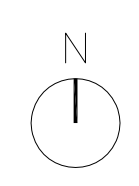
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**SHEET TITLE**  
**ARCHITECTURAL  
SITE  
PLAN**

**SHEET NUMBER**  
**AS101**

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**1 SITE PLAN**  
1" = 20'-0"



LIST OF ABBREVIATIONS

@	AT	FA	FIRE ALARM	OC	ON CENTER
ACC	ACCESSIBLE	FACP	FIRE ALARM CONTROL PANEL	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
ACOUS INSUL	ACOUSTICAL INSULATION	FAR	FLOOR AREA RATIO	OF/OI	OWNER FURNISHED/OWNER INSTALLED
ACS DR	ACCESS DOOR	FC BRK	FACE BRICK	OPNG	OPENING
ACS FLR	ACCESS FLOOR	FD	FLOOR DRAIN	OPP	OPPOSITE
ACS PNL	ACCESS PANEL	FE	FIRE EXTINGUISHER	PART	PARTIAL
ACT	ACOUSTICAL CEILING TILE	FEC	FIRE EXTINGUISHER CABINET	PASS	PASSENGER
AD	AREA DRAIN	FF EL	FINISH FLOOR ELEVATION	PERP	PERPENDICULAR
ADA	AMERICANS WITH DISABILITIES ACT	FF&E	FURNITURE, FIXTURE, AND EQUIPMENT	PLAM	PLASTIC LAMINATE
ADDL	ADDITIONAL	FHC	FIRE HOSE CABINET	PLYWD	PLYWOOD
ADJUST	ADJUSTABLE	FIN	FINISH	POL	POLISHED
ADJ	ADJACENT	FIN FLR	FINISH FLOOR	PNL	PANEL
ADPT	ADAPTABLE	FIN GR	FINISH GRADE	PR	PAIR
AF	ABOVE FINISHED FLOOR	FLR	FLOOR	PREFAB	PREFABRICATED
AFG	ABOVE FINISH GRADE	FLUOR	FLUORESCENT	PSF	POUND PER SQUARE FOOT
AFS	ABOVE FINISH SLAB	FP	FIRE PROTECTION	PSI	POUNDS PER SQUARE INCH
AHU	AIR HANDLING UNIT	FR	FIRE RESISTANT	PT	PAINT
ALT	ALTERNATE	FT	FEET / FOOT	PTN	PARTITION
ALUM	ALUMINUM	GA	GAGE	PVC	POLYVINYL CHLORIDE
AMT	AMOUNT	GBD	GYP SUM BOARD	PVF	POLYVINYL FLUORIDE
AOR	AREA OF REFUGE	GC	GENERAL CONTRACTOR	QT	QUARRY TILE
APPROX	APPROXIMATE	GFR	GLASS-FIBER-REINFORCED CONCRETE	QTY	QUANTITY
APT	APARTMENT	GFRG	GLASS-FIBER-REINFORCED GYPSUM	R	RISER
ARCH	ARCHITECT	GL	GLASS	RAD	RADIAN/RADIUS
ASKLR	AUTOMATIC SPRINKLER	GRAN	GRANITE	RBR	RUBBER
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	GYP PLAS	GYP SUM PLASTER	RCP	REFLECTED CEILING PLAN
ATM	AUTOMATIC TELLER MACHINE	HB	HOSE BIBB	RD	ROOF DRAIN
AV	AUDIO VISUAL	HCWD	HOLLOW CORE WOOD DOOR	REF	REFERENCE
		HDW	HARDWARE	REINF	REINFORCE
BALC	BALCONY	HMD	HOLLOW METAL DOOR	REQD	REQUIRED
BD	BOARD	HORIZ	HORIZONTAL	REST	RESTROOM
BLDG	BUILDING	HPT	HIGH POINT	REV	REVISION
BLW	BELOW	HR	HOUR(S)	RH	RIGHT HAND
B/	BOTTOM OF	HSKPG	HOUSEKEEPING	RM	ROOM
BR	BEDROOM	HT	HEIGHT	RO	ROUGH OPENING
BRZ	BRONZE	ID	INSIDE DIAMETER	S	SOUTH
BSMT	BASEMENT	IN	INCH(ES)	SCWD	SOLID CORE WOOD DOOR
BTWN	BETWEEN	INCAN	INCANDESCENT	SECT	SECTION
		INCL	INCLUDED	SHT	SHEET
C TO C	CENTER TO CENTER	INFO	INFORMATION	SIM	SIMILAR
CBB	CEMENTITIOUS (BACKER) BOARD	INSUL	INSULATION	SLNT	SEALANT
CD	CONTRACT DOCUMENTS	INT	INTERIOR	SPEC	SPECIFICATION
CEM PLAS	CEMENT PLASTER	JC	JANITOR'S CLOSET	SST	STAINLESS STEEL
CJ	CONTROL JOINT	JT	JOINT	ST	STAIR
CL	CENTER LINE	KIT	KITCHEN	STC	SOUND TRANSMISSION CLASS
CLG	CEILING	L	ANGLE	STD	STANDARD
CLO	CLOSET	L	LINEN CLOSET	STL	STEEL
CLR	CLEAR	LAM	LAMINATE	STN	STAIN
CMU	CONCRETE MASONRY UNIT	LAU	LAUNDRY	STOR	STORAGE
CNCL	CONCEALED	LAV	LAVATORY	STRUCT	STRUCTURAL
COL	COLUMN	LBS	POUND	SUSP	SUSPEND
CONC	CONCRETE	LC	LAUNDRY CHUTE	SVCE	SERVICE
CONSTR	CONSTRUCTION	LDG	LANDING	T	TREAD
CONT	CONTINUE	LH	LEFT HAND	TBA-#	TOILET BATH ACCESSORIES
CORR	CORRIDOR	LKR	LOCKER	TBD	TO BE DETERMINED
CPT	CARPET	LL	LOW LEVEL	TEL	TELEPHONE
CT	CERAMIC TILE	LMST	LIMESTONE	THK	THICKNESS
CTR	CENTER	LPT	LOW POINT	T/	TOP OF
		LR	LIVING ROOM	TYP	TYPICAL
DET	DETAIL	M	MEN'S	UNO	UNLESS NOTED OTHERWISE
DIA	DIAMETER	MACH	MACHINE	VAR	VARIES
DIM	DIMENSION	MAR	MARBLE	VB	VINYL BASE
DN	DOWN	MATL	MATERIAL	VCT	VINYL COMPOSITION TILE
DWG	DRAWING	MAX	MAXIMUM	VERT	VERTICAL
E	EAST	MDF	MEDIUM DENSITY FIBERBOARD	VEST	VESTIBULE
EA	EACH	MECH	MECHANICAL	VIF	VERIFY IN FIELD
EC	EXPOSED CONSTRUCTION	MED	MEDIUM	VWC	VINYL WALL COVERING
EGS	EXPOSED CONCRETE SEALED	MEZZ	MEZZANINE	W	WEST
ECP	EXPOSED CONSTRUCTION PAINTED	MFR	MANUFACTURER	W	WOMEN'S
EGB	EXTERIOR GYPSUM BOARD	MIN	MINIMUM	W/	WITH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MISC	MISCELLANEOUS	W/O	WITHOUT
EJ	EXPANSION JOINT	MLWK	MILLWORK	WB	WOOD BASE
EL	ELEVATION	MO	MASONRY OPENING	WC	WALL COVERING
ELEC	ELECTRIC	MTD	MOUNTED	WD	WOOD
ELEV	ELEVATOR	MTL	METAL	WD DR	WOOD DOOR
ENCL	ENCLOSURE	N	NORTH	WH	WATER HEATER
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	NCOMBL	NON-COMBUSTIBLE	WP	WORKING POINT
EPJF	EXPANDED POLYETHYLENE JOINT FILLER	NIC	NOT IN CONTRACT	WT	WEIGHT
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	NO	NUMBER	WWF	WELDED WIRE FABRIC
EQ	EQUAL	NOM	NOMINAL		
EQUIP	EQUIPMENT	NTS	NOT TO SCALE		
EWC	ELECTRIC WATER COOLER				
EXIST	EXISTING				
EXP	EXPANSION				
EXPD	EXPOSED				
EXT	EXTERIOR				

GENERAL NOTES

A. CODES, STANDARDS, AND PROCEDURES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LIMESTONE TOWNSHIP CODE AND AMENDMENTS, AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES, ACCESSIBILITY CODES, STANDARDS, AND REGULATORY AGENCIES.
- ALL REFERENCES TO CODES, SPECIFICATIONS, AND STANDARDS REFERRED TO IN THE SPECIFICATIONS AND/OR DRAWINGS SHALL MEAN THE LATEST EDITION, AMENDMENT OR REVISION OF SUCH REFERENCE IN EFFECT AS OF THE LATEST DATE OF THE CONTRACT DOCUMENTS.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS, POLICIES, AND PROCEDURES OF THE OWNER.
- DRAWINGS AND SPECIFICATIONS ARE TO BE ISSUED TO THE SUBCONTRACTORS IN COMPLETE SETS SO THAT THE FULL EXTENT OF WORK IS SHOWN AND COORDINATION OF WORK IS MADE POSSIBLE.
- ALL WORK SHALL BE OF THE HIGHEST QUALITY FOLLOWING THE CONTRACT DOCUMENTS, PROJECT SPECIFICATIONS, MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS, AND THE BEST ACCEPTED TRADE PRACTICES AND STANDARDS.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPES OF DETAILING REQUIRED FOR THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED.
- PROVIDE ALL SHOP DRAWINGS, CATALOG CUTS, SAMPLES, ETC. FOR THE NECESSARY WORK REQUIRED AND FOR ARCHITECT'S REVIEW PRIOR TO COMMENCEMENT OF THE WORK.
- EACH CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ALL WORK WHICH DIFFERS FROM CONTRACT DOCUMENTS SO THAT ACCURATE RECORD DRAWINGS AND SPECIFICATIONS CAN BE KEPT AND PROVIDED TO THE OWNER AT PROJECT CLOSEOUT.
- EACH CONTRACTOR SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREOF. FAILURE TO EXAMINE THE SITE AND DETERMINE EXISTING CONDITIONS OR NATURE OF NEW CONSTRUCTION, OR NATURE AND EXTENT OF WORK TO BE PERFORMED BY OTHER TRADES WILL NOT BE CONSIDERED A BASIS FOR GRANTING OF ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO THE CONSTRUCTION OPERATIONS, AND REPAIR OR REPLACE ANY ELEMENTS DAMAGED DURING THE PROJECT.
- ANY UTILITY SHUT-OFFS AS REQUIRED BY THE CONTRACTOR FOR COMPLETION OF THEIR WORK SUCH AS ELECTRICAL, GAS, WATER, SEWER, ETC. MUST BE SCHEDULED WITH THE OWNER PRIOR TO COMMENCING WORK.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ITEMS THAT ARE SHOWN ON ANOTHER DISCIPLINES DOCUMENTS BUT NOT ON THE TRADE CONTRACTOR'S DISCIPLINE DOCUMENTS.
- IN ORDER TO MINIMIZE DISRUPTIONS TO AIRPORT OPERATIONS, ALL UTILITY SHUT-DOWNS AND CONNECTIONS SHALL BE SCHEDULED OF-HOURS. (FROM 11:00 PM UNTILL 5 AM) ALL PREMIUM COSTS SHALL BE INCLUDED IN THE BID.

B. DIMENSIONS

- DO NOT SCALE THE DRAWINGS, DIMENSIONS SHALL GOVERN. LARGE SCALE DRAWINGS SHALL GOVERN OVER SMALL SCALE. WHERE A DISCREPANCY MAY EXIST BETWEEN DRAWINGS AND SPECIFICATIONS, THE MORE RESTRICTIVE OR EXPENSIVE REQUIREMENTS SHALL GOVERN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE, AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- ALL PARTITIONS ARE DIMENSIONED TO THE FINISH FACE, UNLESS NOTED OTHERWISE. WHERE SPECIFIC DIMENSIONS, DETAILS AND/OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
- DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED BETWEEN WALLS OR POSITIONED WITH ONE JAMB CASING TRIM AGAINST AN ADJACENT WALL OR COLUMN AS SHOWN ON THE PLANS AND/OR DETAILS.

C. COORDINATION

- REFER TO THE SPECIFICATIONS AND CIVIL, LANDSCAPING, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND ADDITIONAL CONSULTANT'S DRAWINGS FOR FULL COORDINATION OF WORK.
- REFER TO SITE SURVEY FOR SITE INFORMATION. SITE SURVEY IS INCLUDED WITH THE DOCUMENTS FOR "INFORMATION ONLY", AND CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN.
- THE GENERAL CONTRACTOR SHALL COORDINATE ADDITIONAL SUPPORT OR CONCEALED BLOCKING FOR INSTALLATION OF HANDRAILS, MILLWORK, WINDOW TREATMENTS, WALL PANELS, GRAB BARS, AND ALL OTHER SURFACE MOUNTED COMPONENTS.
- THE CONTRACTOR SHALL COORDINATE AND VERIFY THE EXACT SIZE AND LOCATION OF ALL FLOOR PENETRATIONS AND OPENINGS IN WALLS AND CEILINGS WITH EACH OF THE RESPECTIVE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS, ALL PARTITIONS SHALL BE ADEQUATELY BRACED AND OPENINGS REINFORCED. SUBMIT COORDINATED DRAWING OF ALL PENETRATIONS FOR REVIEW.
- GENERAL CONTRACTOR TO COORDINATE ALL LIGHTING FIXTURES, ELECTRICAL DEVICES, AND SPRINKLER LOCATIONS WITH DIFFUSER AND DUCTWORK LAYOUT, AND SHALL IDENTIFY ALL POTENTIAL CONFLICTS INVOLVING ELEMENTS WITHIN THE CEILING CAVITY. ANY VARIATIONS OR CONFLICTS WITH LAYOUT OR CEILING HEIGHT SHOWN SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- THE LOCATION OF MEP/FP EQUIPMENT AND DEVICES SUCH AS V.A.V. BOXES, PIPING VALVES, ETC. SHALL BE COORDINATED BY THE CONTRACTOR TO CORRESPOND TO ACCESS PANEL LOCATIONS SHOWN ON CONTRACTOR'S COORDINATION PLANS, AND IN SUCH A MANNER AS TO ALLOW READY ACCESS TO EQUIPMENT CONTROLS AND COMPONENTS WHICH REQUIRE ROUTINE SERVICING. SUBMIT ACCESS PANEL LOCATION DRAWINGS FOR REVIEW.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN ADVANCE OF ANY MEP/FP DEVICES REQUIRED AS PART OF THE SPECIFIED SYSTEM WHICH ARE TO BE MOUNTED IN FINISHED SPACES AND ARE NOT LOCATED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECT WILL DETERMINE THE MOUNTING LOCATION, HEIGHT, AND DETAIL FOR ATTACHMENT.
- ALL CONDUIT, PIPING, DUCTWORK, AND MECHANICAL SYSTEMS SHALL BE INSTALLED WITHIN OR TIGHT TO THE UNDERSIDE OF STRUCTURE WHERE FEASIBLE.
- REFER TO MEP/FP DRAWINGS FOR EXTENT OF CONCRETE EQUIPMENT PADS. THE CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF THE CONCRETE PADS WITH THE EQUIPMENT INSTALLER.

D. INSTALLATION, GENERAL

- PROVIDE EXPANSION AND/OR CONTROL JOINTS IN ACCORDANCE WITH SPECIFIED OR DRAWN REQUIREMENTS. IN THE ABSENCE OF SPECIFIED OR DRAWN REQUIREMENTS, PROVIDE JOINTS IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS. LOCATIONS SHALL BE REVIEWED AND ACCEPTED BY THE ARCHITECT PRIOR TO INSTALLATION.
- ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION WHICH IS REQUIRED TO HAVE A FIRE RESISTIVE RATING SHALL BE INSTALLED PER MANUFACTURER'S TESTED ASSEMBLIES AND SHALL PREVENT PASSAGE OF SMOKE AND FLAME.
- ALL WOOD BLOCKING AND FRAMING USED IN WALL, FLOOR, AND CEILING CONSTRUCTION SHALL BE FIRE RETARDANT TREATED.
- ALL OPENINGS IN FIRE-RATED FLOORS AND FIRE-RATED WALLS INCLUDING SPACES BETWEEN DUCTS, PIPES, CONDUIT, ETC. SHALL BE CLOSED OFF BY APPROVED FIRE SAFING MATERIAL TO MAINTAIN FIRE RATING CONTINUITY OF RATED FLOOR AND WALL CONSTRUCTION. ALL OPENINGS AND PENETRATIONS SHALL BE SEALED TO PREVENT PASSAGE OF SMOKE AND FLAMES IN FIRE-RATED ASSEMBLIES.
- OMIT MANUFACTURER'S NAMES, LABELS AND DESIGNATIONS FROM EXPOSED FACES ON ALL ACCESSORIES, GLAZING, FIXTURES, ETC. EXCEPT WHERE REQUIRED TO REMAIN PER CODE REQUIREMENTS.
- UNLESS NOTED OTHERWISE, ALL FASTENERS AND FASTENING DEVICES ARE TO BE CONCEALED AT ALL EXTERIOR AREAS AND IN ALL INTERIOR FINISHED SPACES.
- EXTERIOR FERROUS METAL WORK AT EXTERIOR OR OTHER NON-CONDITIONED SPACES THAT ARE NOT GALVANIZED SHALL BE PAINTED.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER IN ORDER TO AVOID GALVANIC ACTION. WHEN ISOLATION IS NOT POSSIBLE, INSTALL PLASTIC RUBBER/PVC IN SUFFICIENT SIZE AND DEPTH TO COVER ENLARGED DISSIMILAR MATERIAL.

E. WALL TYPES

- SEE SHEET AXK FOR WALLS TYPES.

E. WALL TYPES

- MULTIPLE BID PACKAGES:

This project consists of multiple construction bid packages. This package is referred to as "Bid Package D" New Terminal Building – Balance of the work as noted on these drawings. The previous Bid Packages have been issued and are not included in this scope of work are as follows:

Bid Package A	Terminal Apron
Bid Package B	Terminal Footings, Foundations and exterior ramps and stairs
Bid Package C	Structural Steel, Steel metal pan stairs and connecting handrails

Future Bid Packages will include:

Technology/MUFD's/Security Package  
Building and Interior Signage Bid Package  
Electrical Vault  
Passenger Boarding Bridge  
Terminal Demolition



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DULUTH INTERNATIONAL AIRPORT AUTHORITY

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SHEET TITLE  
ABBREVIATIONS

SHEET NUMBER  
A001

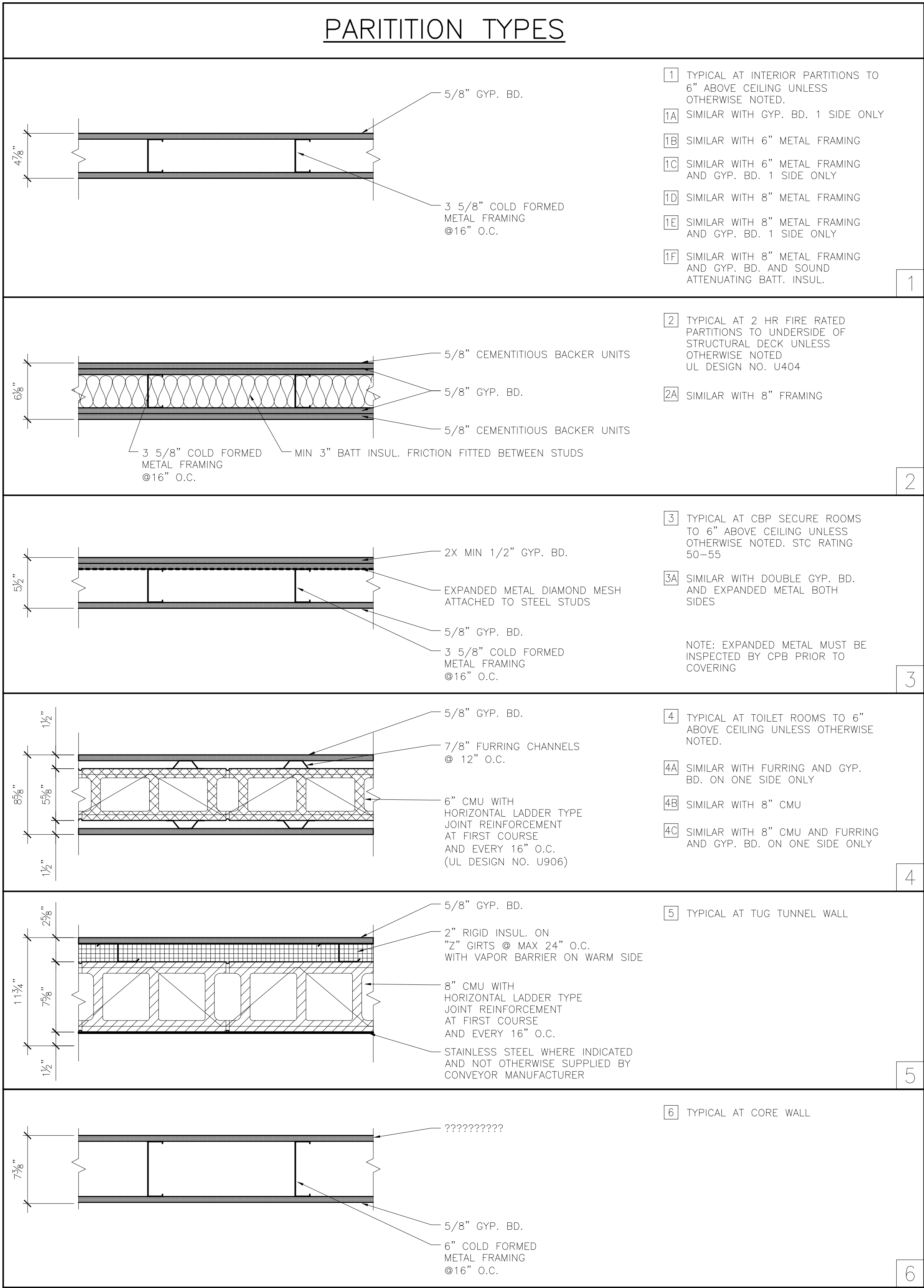
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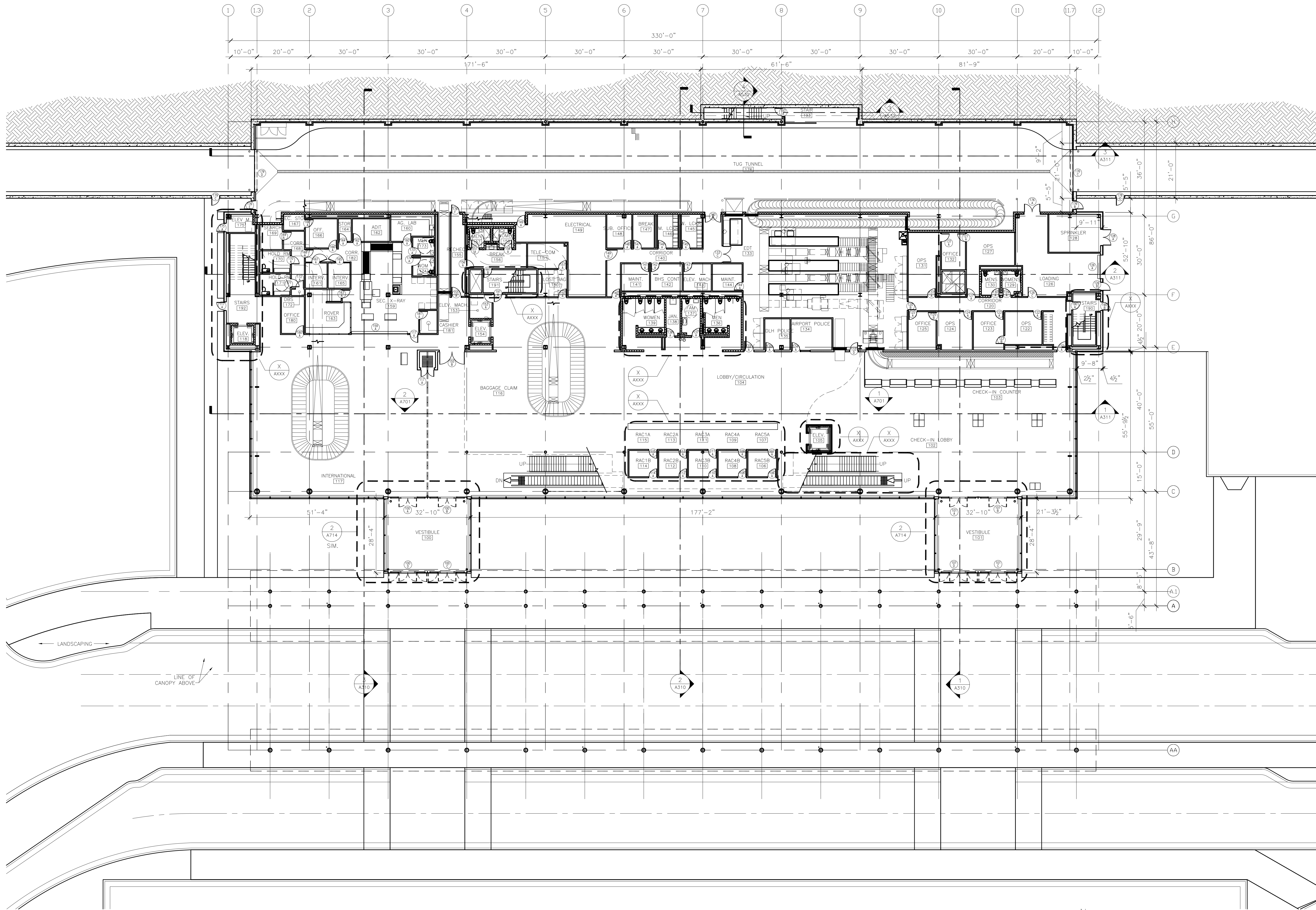




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NEW PASSENGER  
TERMINAL

CONSULTANTS

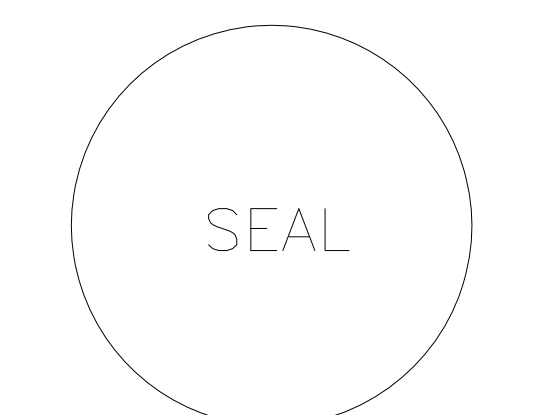
Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 340, Duluth MN 55802  
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
**MBJ CONSULTING ENG.**  
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TEL: (218) 722-1056 / FAX: (218) 722-9306

M/E/P/F/P Engineers:  
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TEL: (312) 201-7406 / FAX: (312) 201-0031

Baggage Handling Systems Consultants:  
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Landscaping Consultants:  
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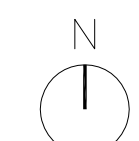
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SHEET TITLE  
**OVERALL  
FIRST FLOOR  
PLAN**

SHEET NUMBER  
**A101**

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**1** FIRST LEVEL FLOOR PLAN  
1/16" = 1'-0"





## CONSULTANTS

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TEL: (218) 724-8578 / FAX: (218) 724-8717

**Structural Engineers:**

**MBJ CONSULTING ENG.**  
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**M/E/P/FP Engineers:**

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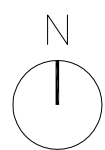
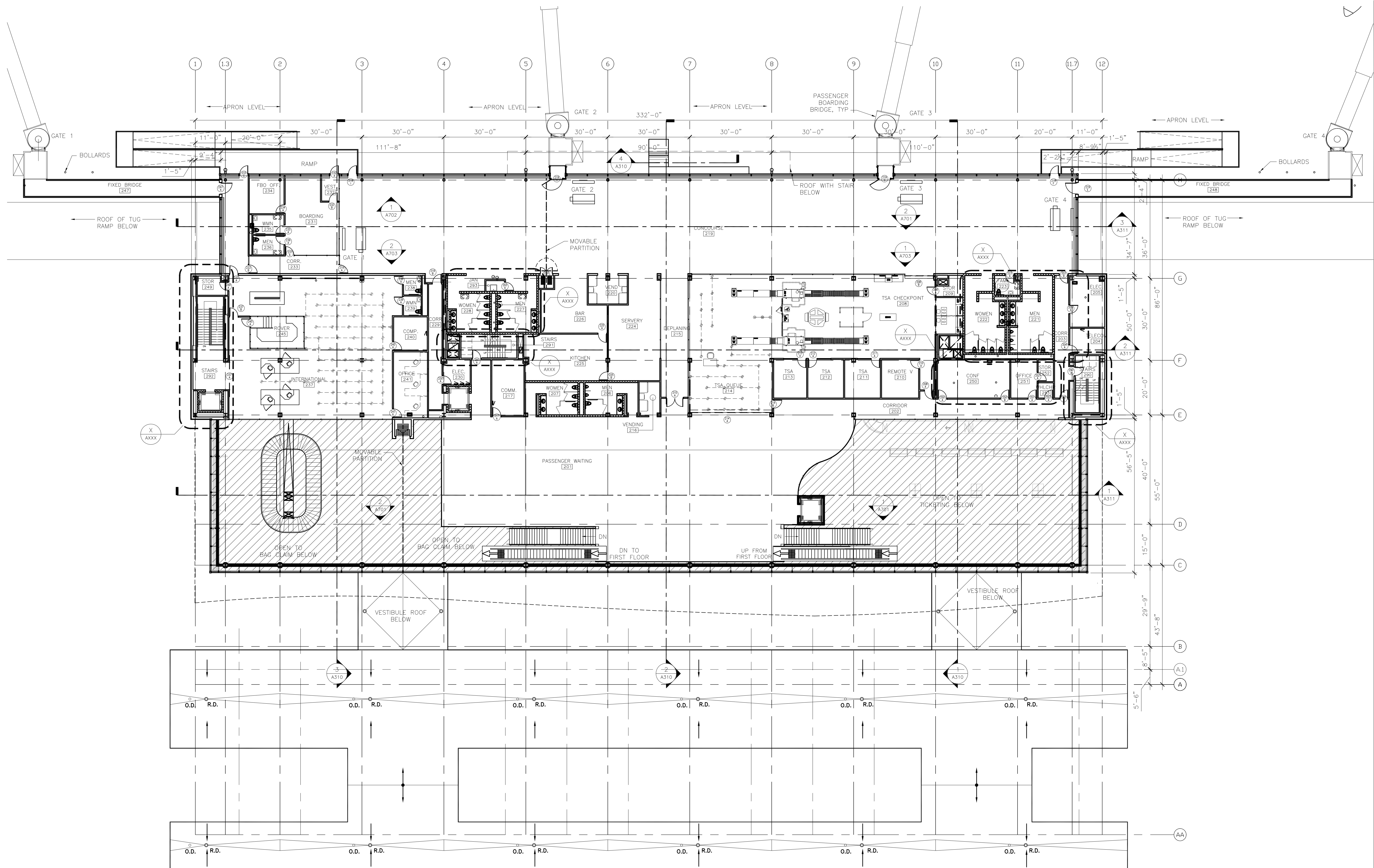
**SHEET TITLE**

## OVERALL SECOND FLOOR PLAN

**SHEET NUMBER**

# A102

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## 1 SECOND LEVEL FLOOR PLAN





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## NEW PASSENGER TERMINAL

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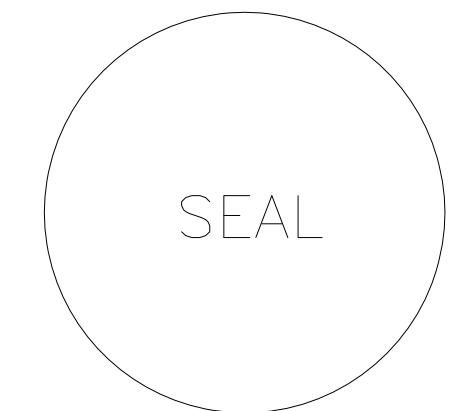
Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 340, Duluth MN 55802  
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
**MBJ CONSULTING ENG.**  
501 Lake Avenue South, Suite 300, Duluth MN 55802  
TEL: (218) 722-1056 / FAX: (218) 722-9306

M/E/P/FP Engineers:  
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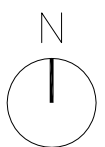
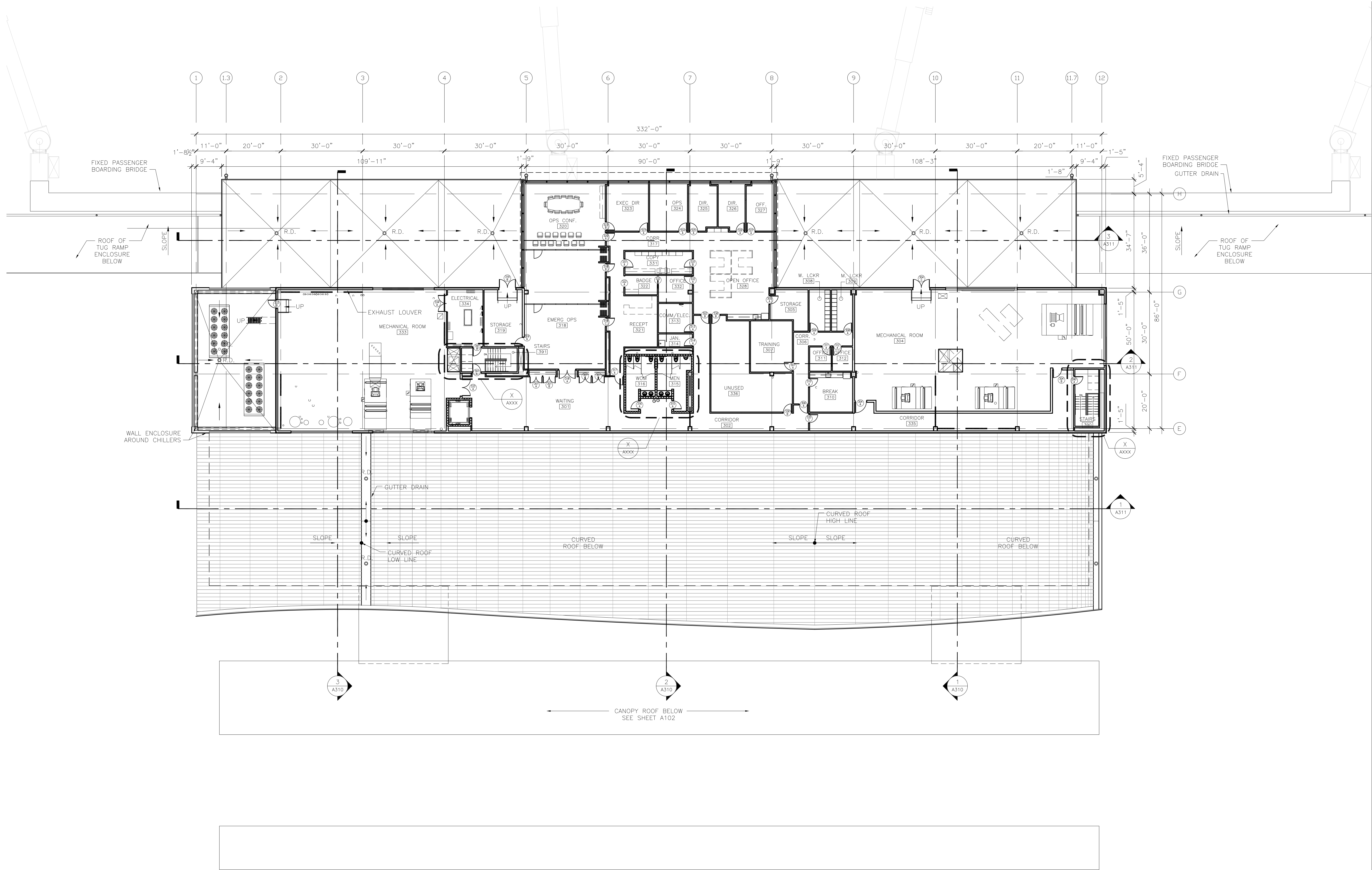
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**SHEET TITLE**

**OVERALL  
THIRD FLOOR  
PLAN**

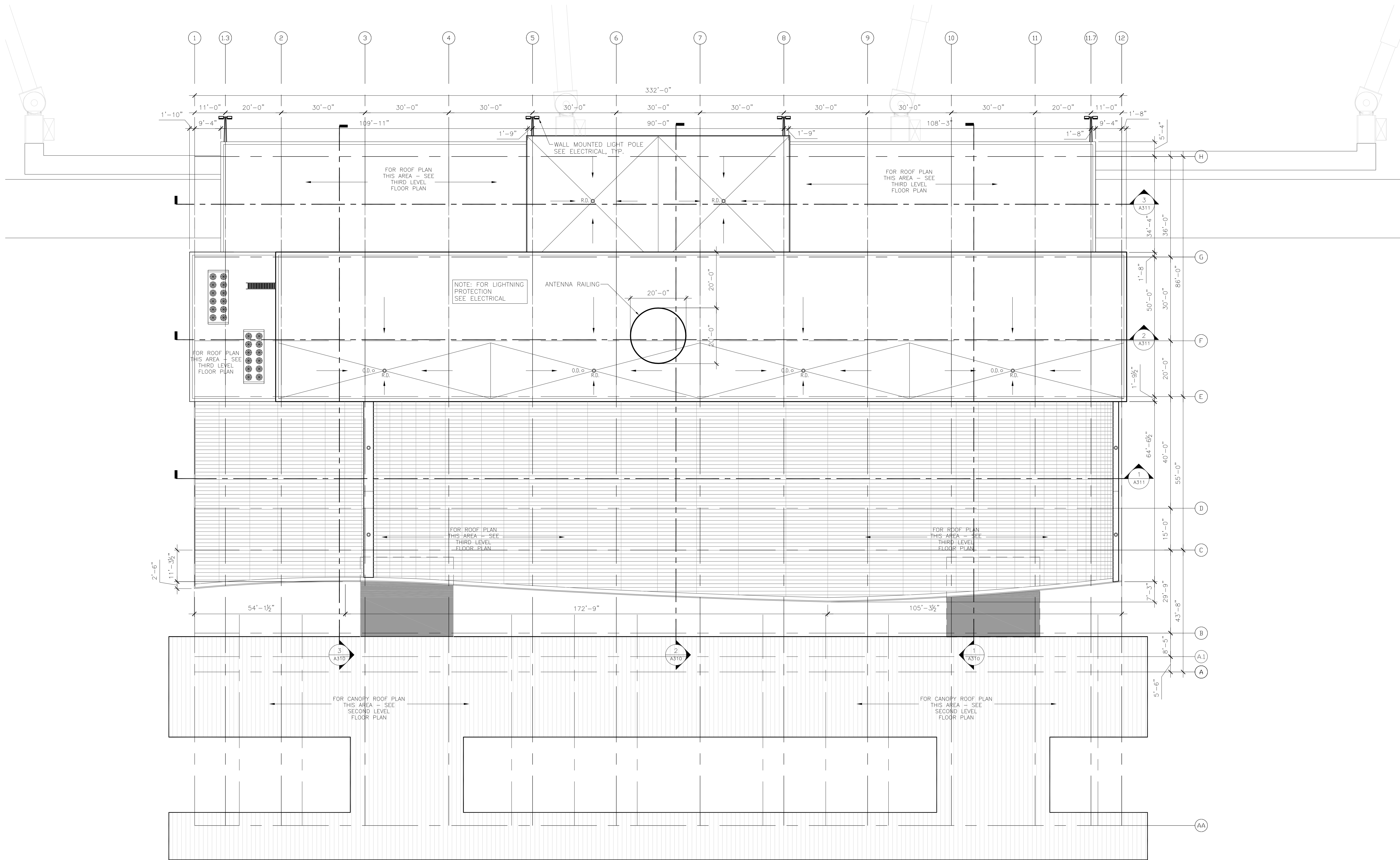
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### 1 THIRD LEVEL FLOOR PLAN





1 ROOF PLAN  
1/16" = 1'-0"

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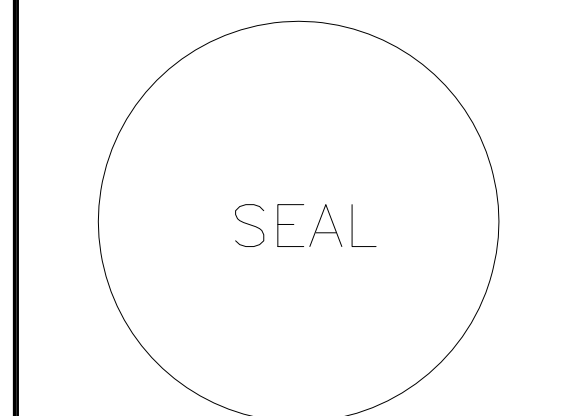
Interior Architects:  
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Structural Engineers:  
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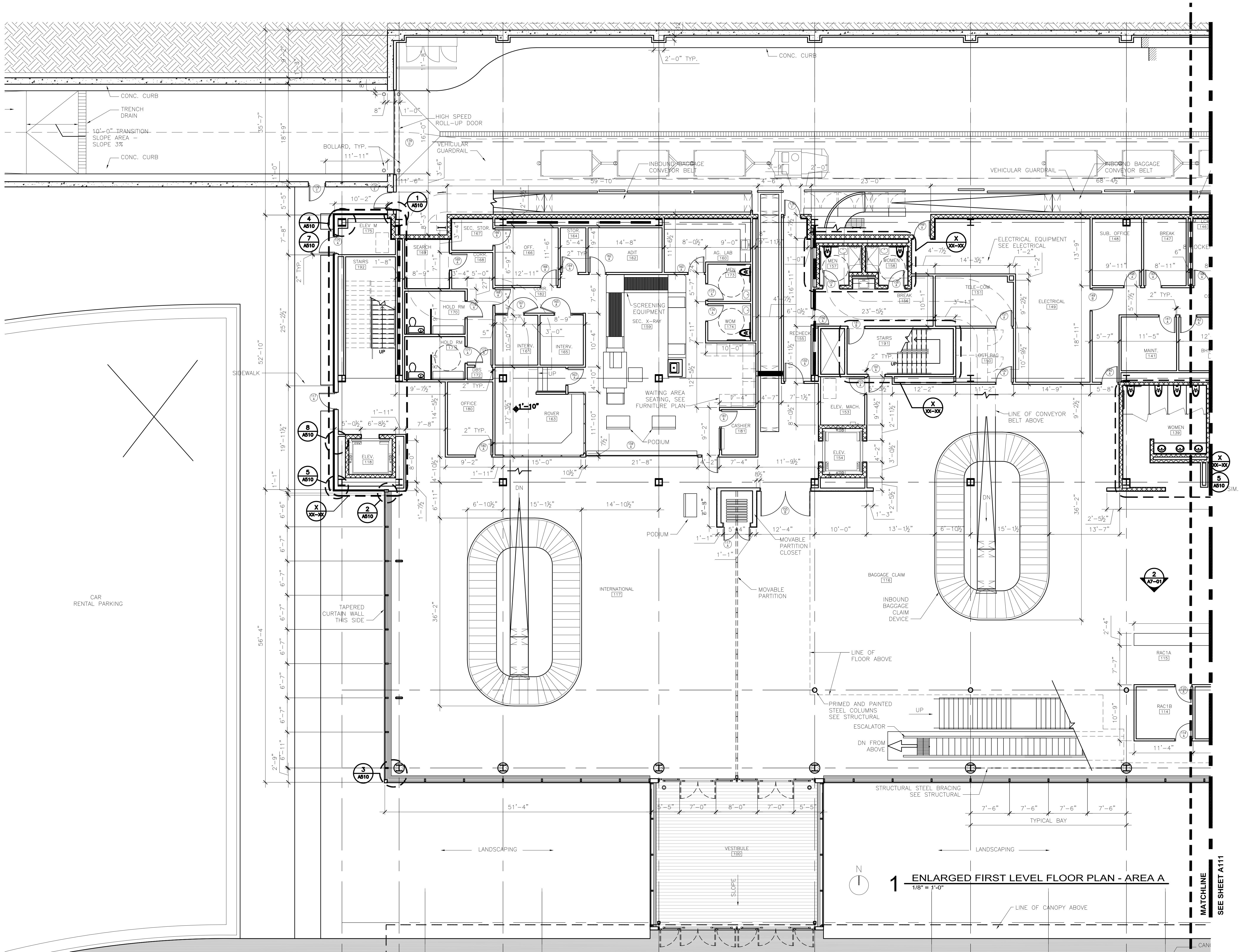
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SHEET TITLE  
**OVERALL  
ROOF PLAN**

SHEET NUMBER  
**A104**

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TERMINAL**

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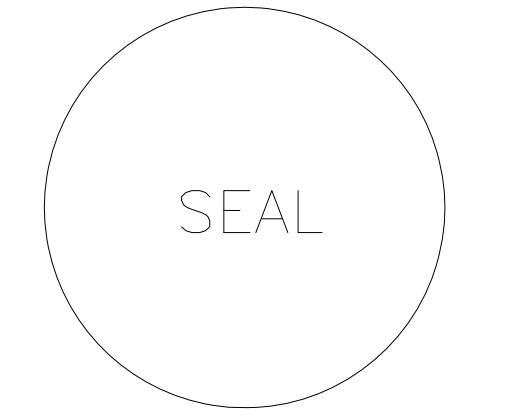
Interior Architects:  
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Structural Engineers:  
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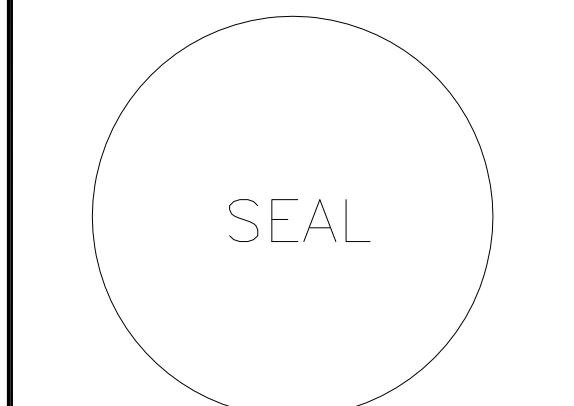
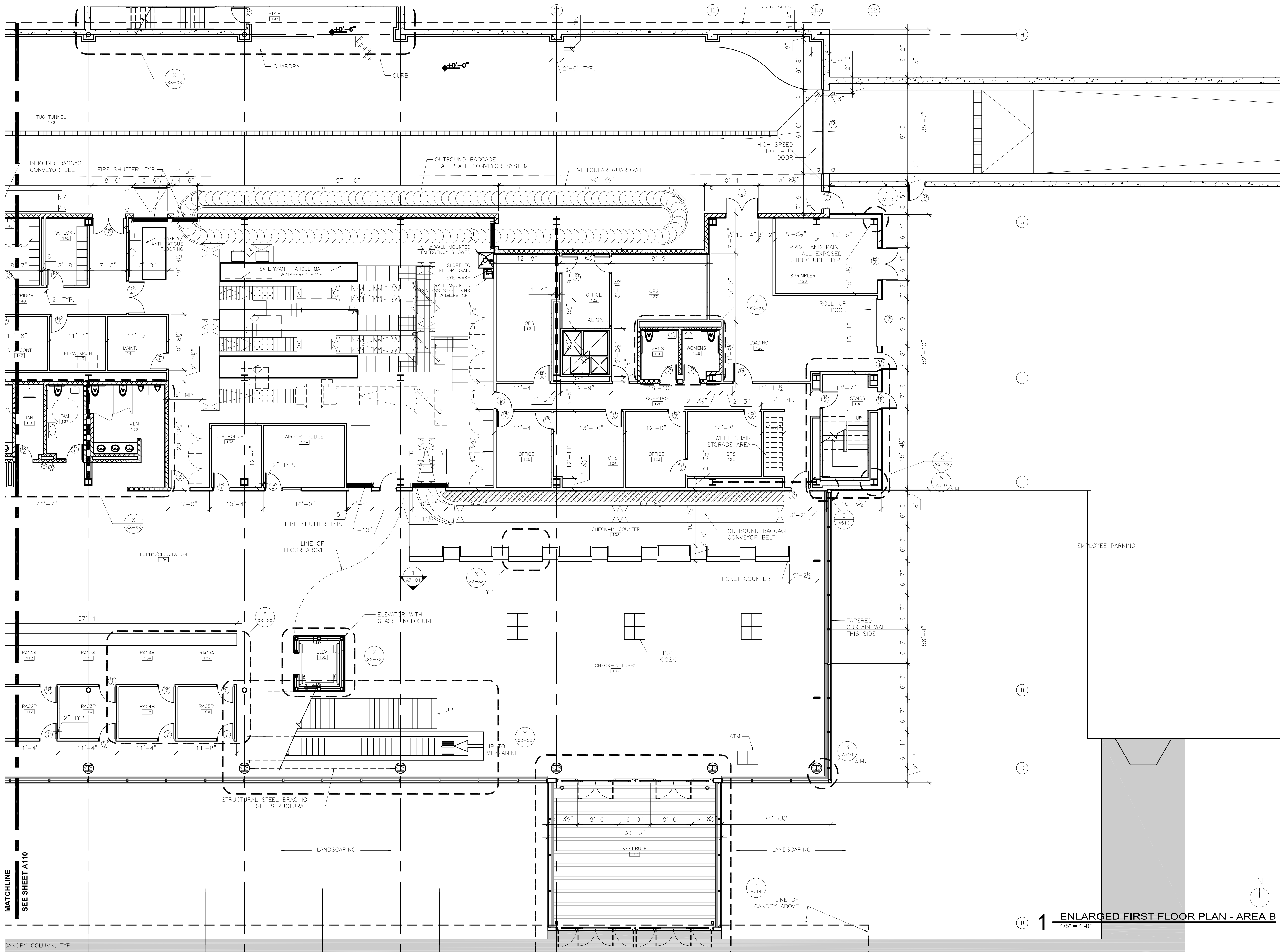
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**SHEET TITLE**  
**ENLARGED  
FIRST FLOOR  
PLAN AREA A**

**SHEET NUMBER**  
**A110**

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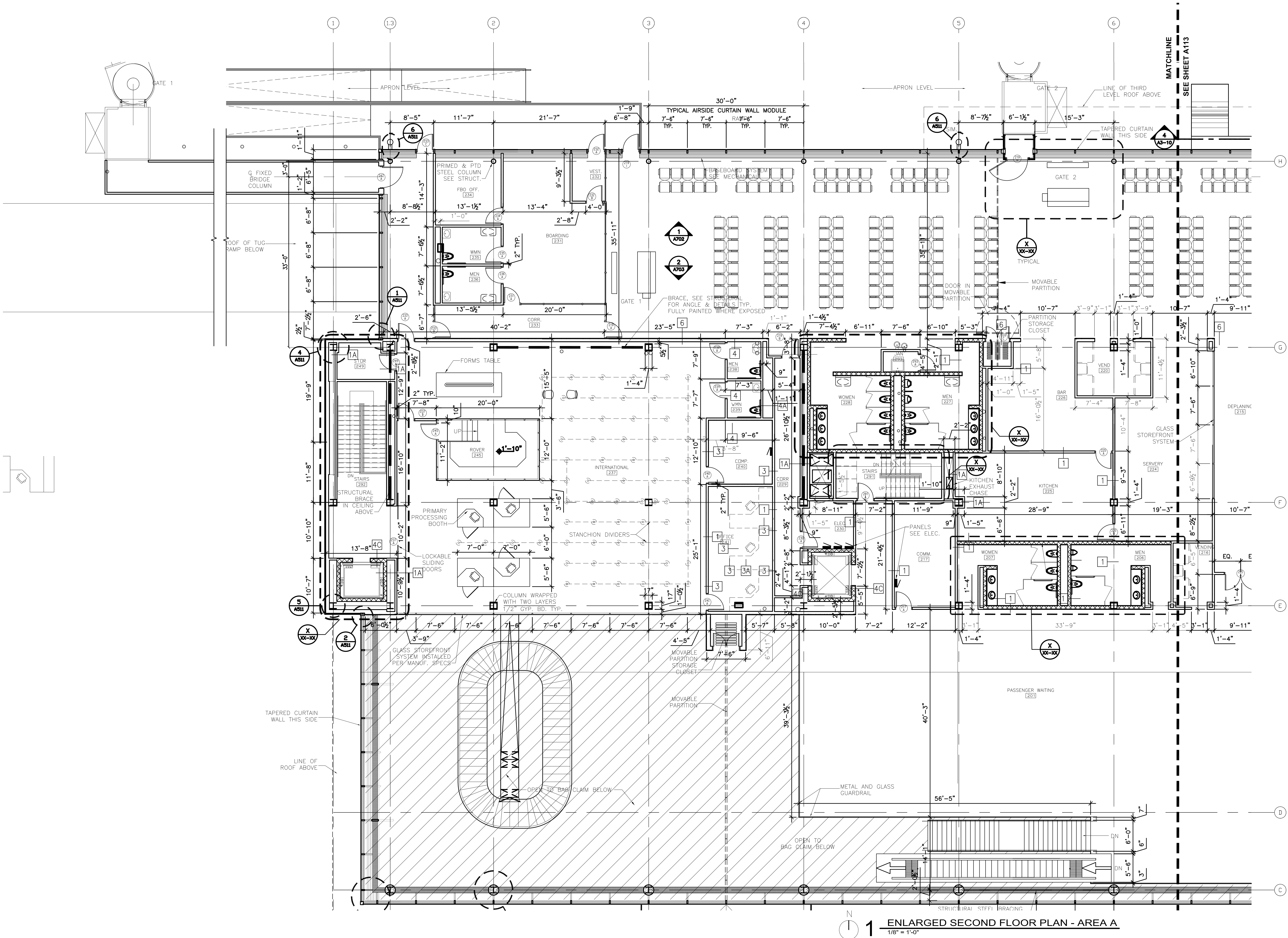
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**SHEET TITLE**  
**ENLARGED  
FIRST FLOOR  
PLAN AREA B**

**SHEET NUMBER**  
**A111**

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CONSTRUCTION**





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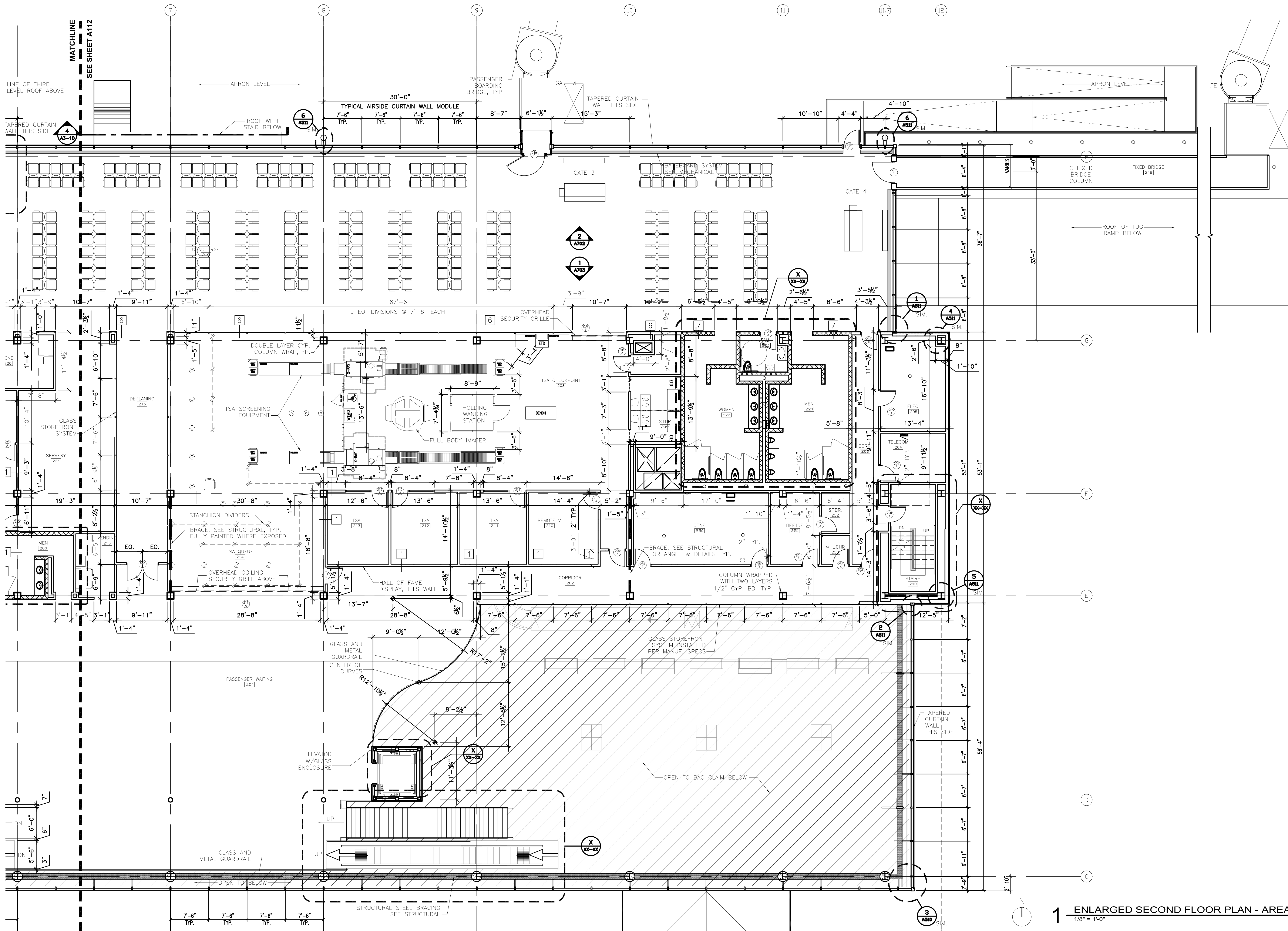
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**ENLARGED SECOND FLOOR PLAN AREA A**

**SHEET NUMBER**  
**A112**

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**1 ENLARGED SECOND FLOOR PLAN - AREA A**  
1/8" = 1'-0"





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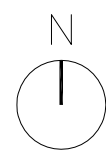
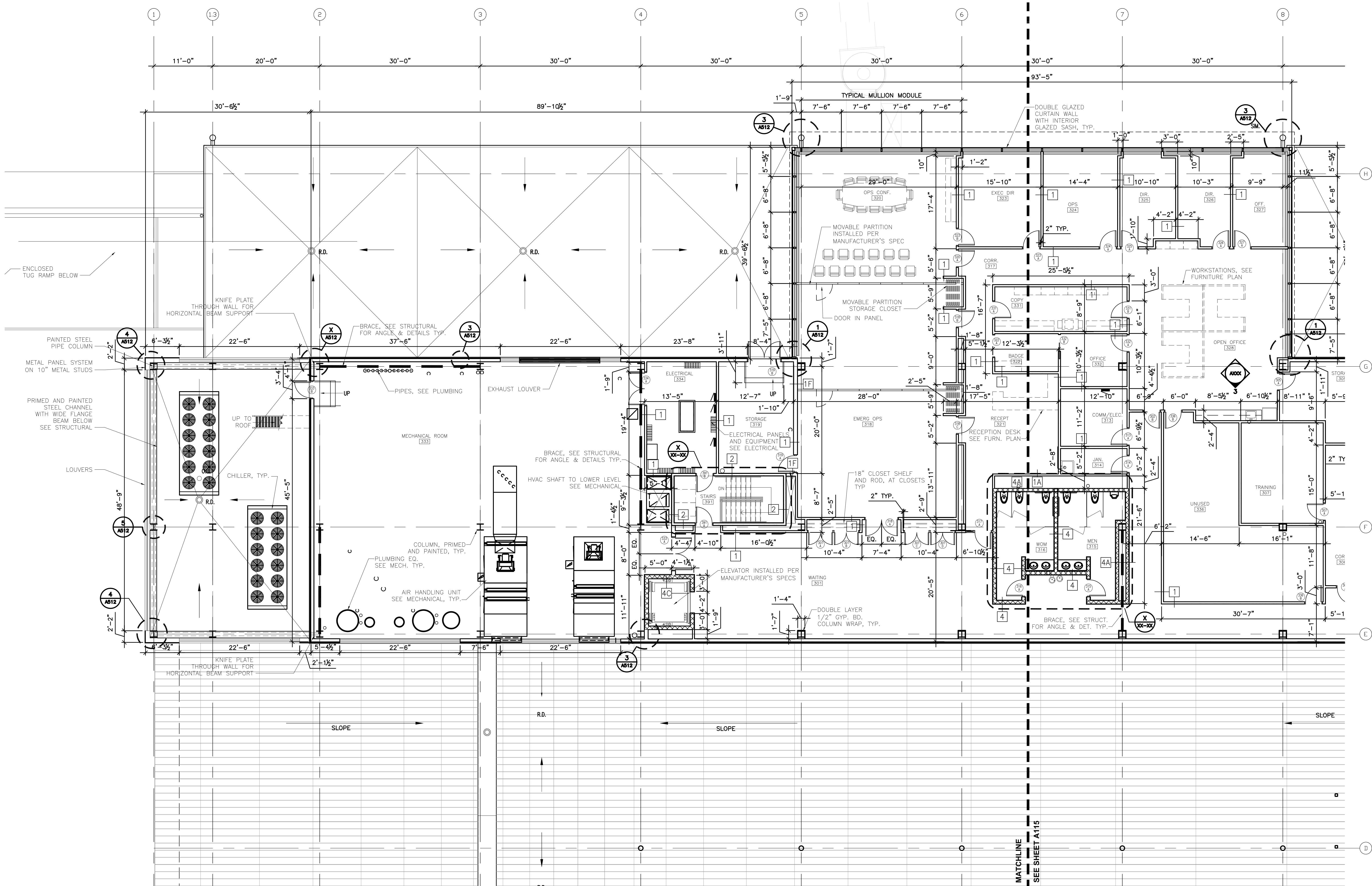
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SHEET TITLE  
**ENLARGED  
SECOND FLOOR  
PLAN AREA B**

SHEET NUMBER  
**A113**

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# 1 ENLARGED THIRD LEVEL FLOOR PLAN - ADMIN.

1/8" = 1'-0"

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**DULUTH INTERNATIONAL AIRPORT  
DULUTH, MN**

**NEW PASSENGER TERMINAL**

## CONSULTANTS

### Interior Architects:

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11 E Superior Street Suite 340, Duluth MN 55802  
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### Structural Engineers:

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501 Lake Avenue South, Suite 300, Duluth MN 55802  
TEL: (218) 722-1056 / FAX: (218) 722-9306

### M/E/P/F Engineers:

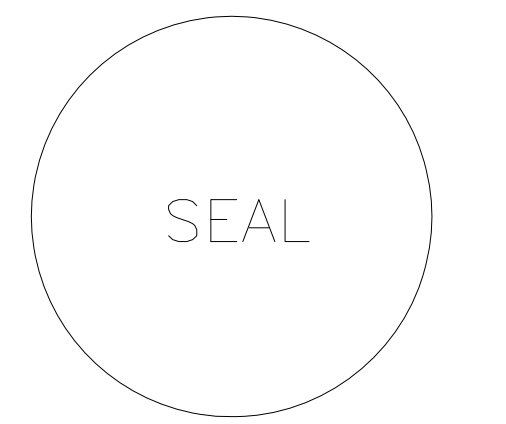
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### Landscaping Consultants:

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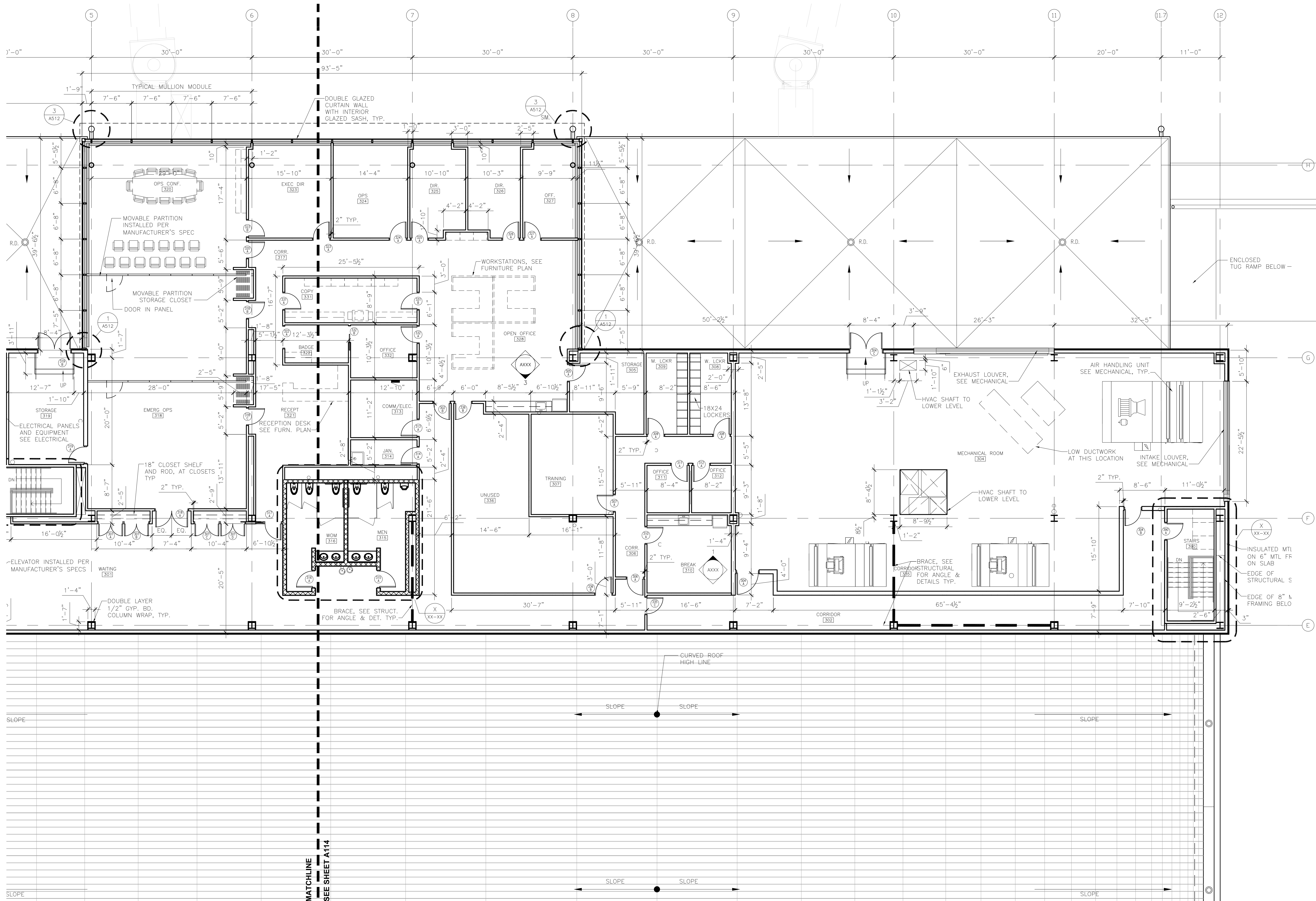
**ENLARGED  
THIRD FLOOR  
PLAN AREA A**

### SHEET NUMBER

**A114**

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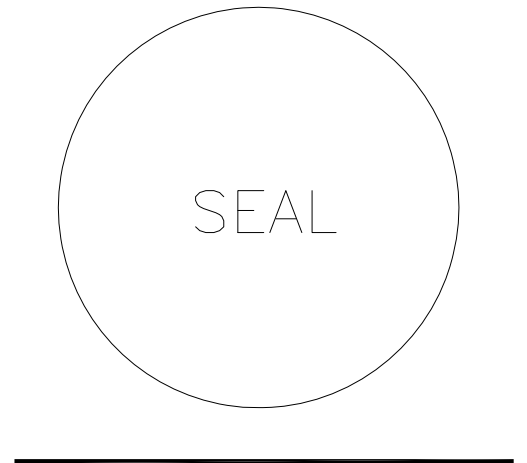
Interior Architects:  
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Structural Engineers:  
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SHEET TITLE  
**ENLARGED  
THIRD FLOOR  
PLAN AREA B**

SHEET NUMBER  
**A115**

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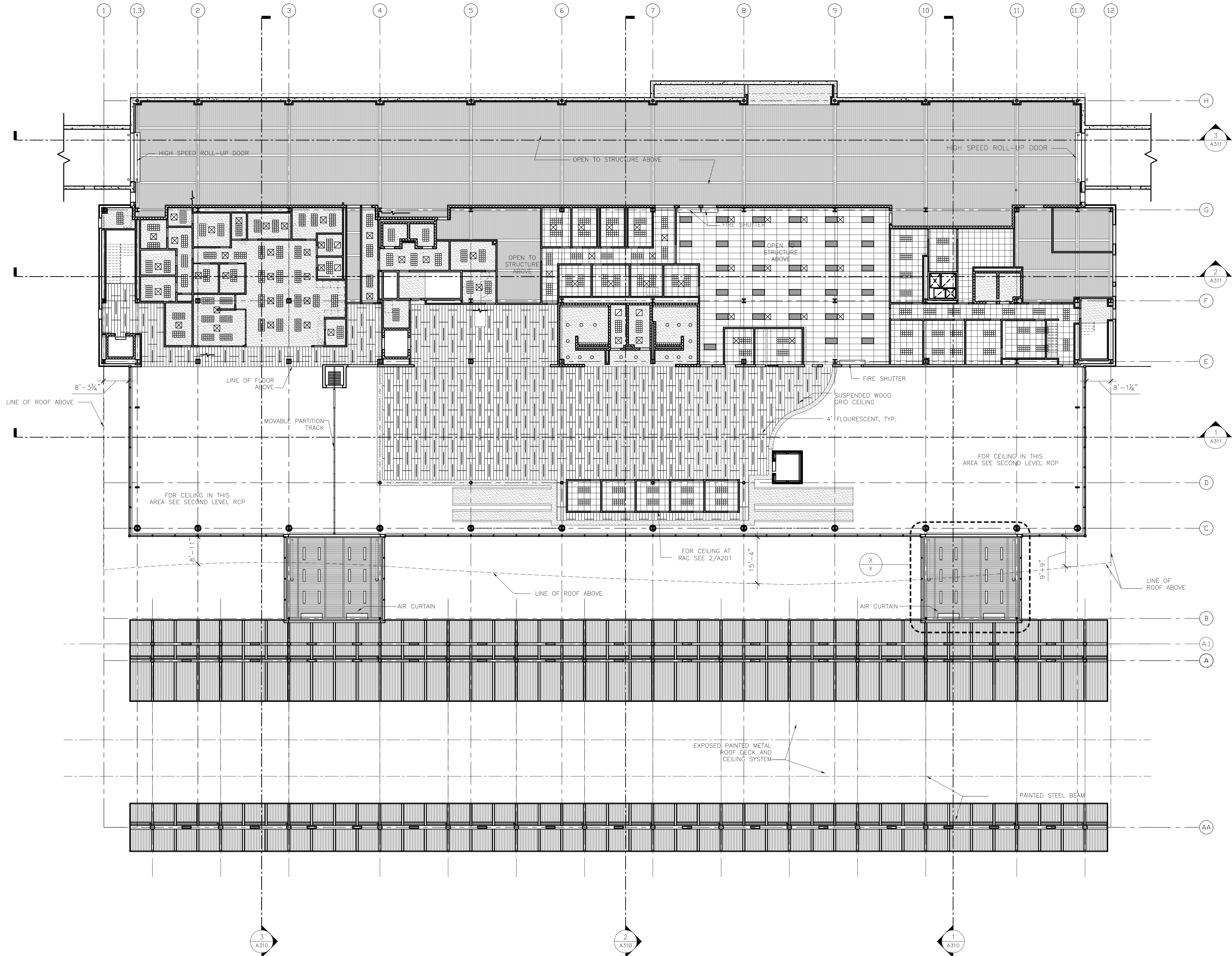
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SHEET TITLE  
**OVERALL  
FIRST FLOOR  
RCP**

SHEET NUMBER  
**A201**

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**1** OVERALL FIRST FLOOR REFLECTED CEILING PLAN  
1/16" = 1'-0"



**CONSULTANTS**

Interior Architects:  
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TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
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M/E/P/F/P Engineers:  
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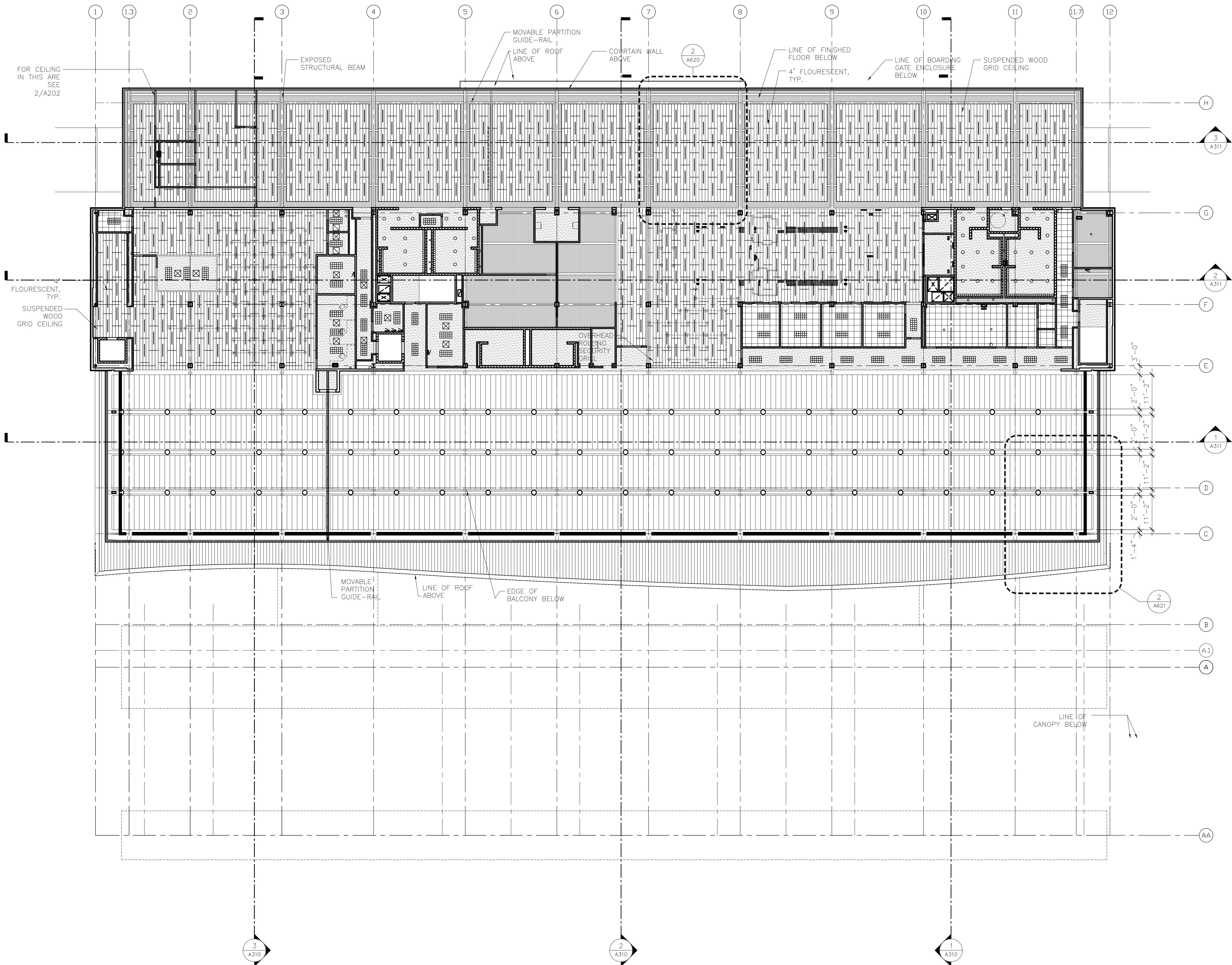
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SHEET TITLE  
**OVERALL  
SECOND FLOOR  
RCP**

SHEET NUMBER  
**A202**

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**1** OVERALL SECOND FLOOR REFLECTED CEILING PLAN  
1/16" = 1'-0"



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Interior Architects:  
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TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
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Landscaping Consultants:  
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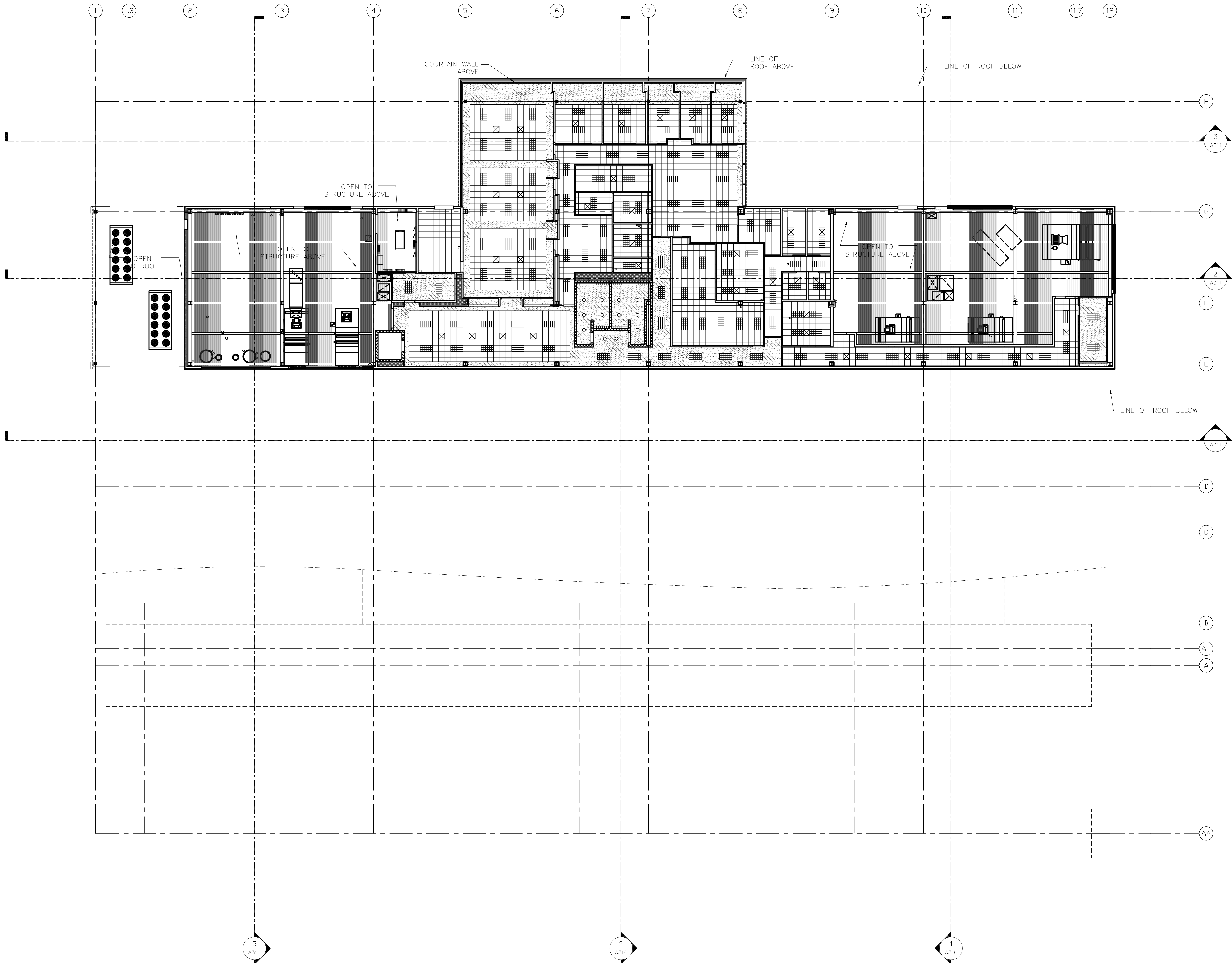
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SHEET TITLE  
**OVERALL  
THIRD FLOOR  
RCP**

SHEET NUMBER  
**A203**

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CONSTRUCTION**



**1** OVERALL THIRD FLOOR REFLECTED CEILING PLAN  
1/16" = 1'-0"





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## NEW PASSENGER TERMINAL

## CONSULTANTS

Interior Architects:  
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DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

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**213-1882-091**

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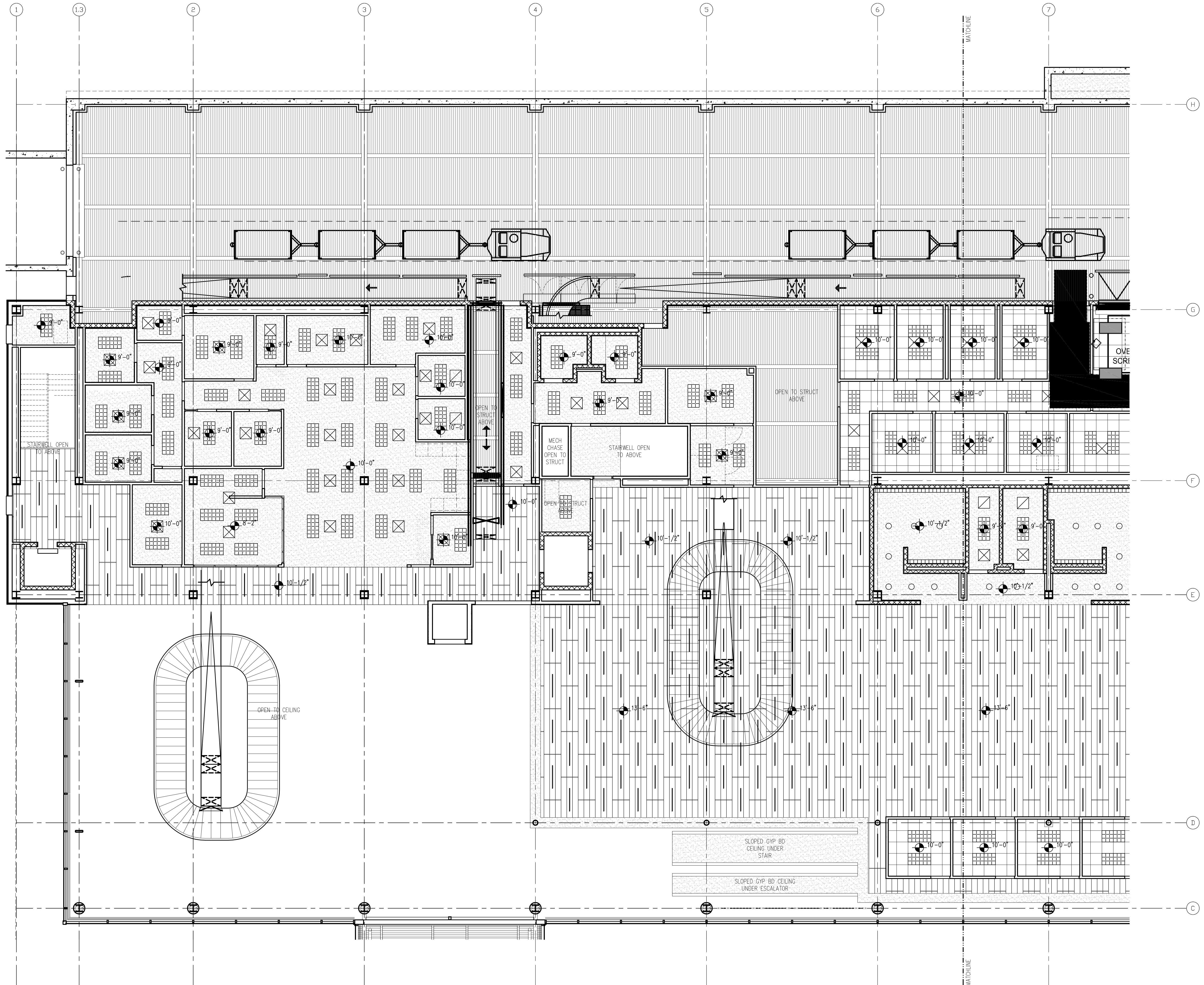
### SHORT TITLE

**ENLARGED  
FIRST FLOOR  
REFLECTED CEILING  
PLAN AREA A**

**SHEET NUMBER**

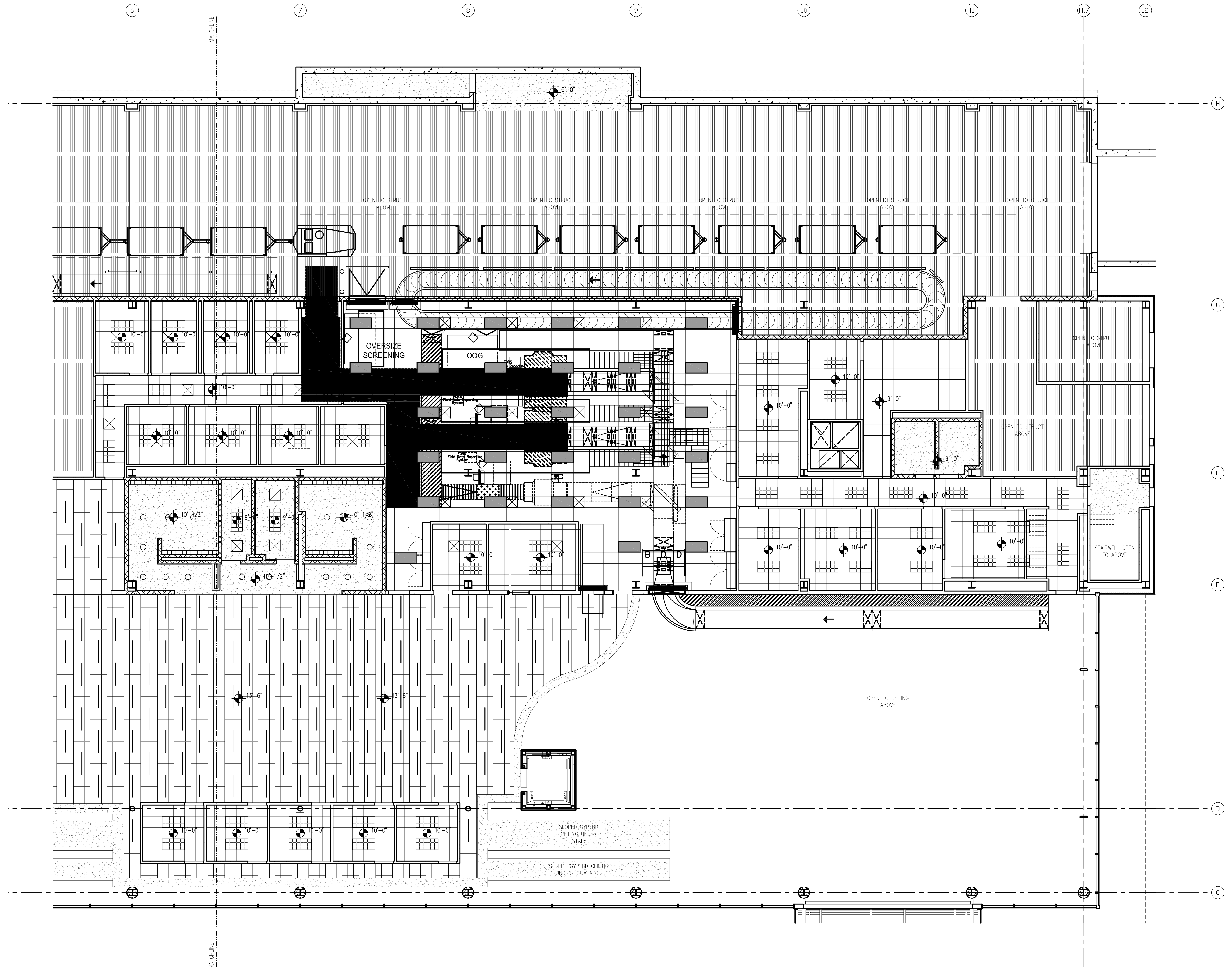
## A210

**90% NOT FOR CONSTRUCTION**



**1 ENLARGED FIRST FLOOR REFLECTED CEILING PLAN - AREA A**  
1/8" = 1'-0"





1 ENLARGED FIRST FLOOR REFLECTED CEILING PLAN - AREA B  
1/8" = 1'-0"

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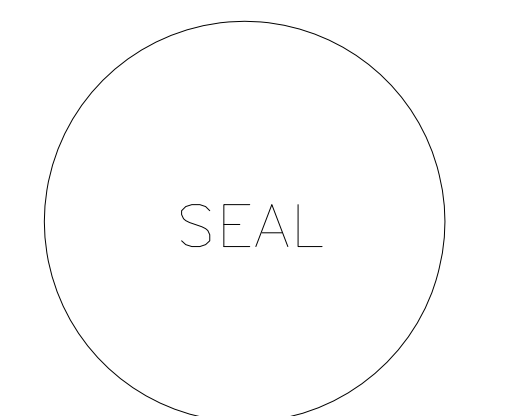
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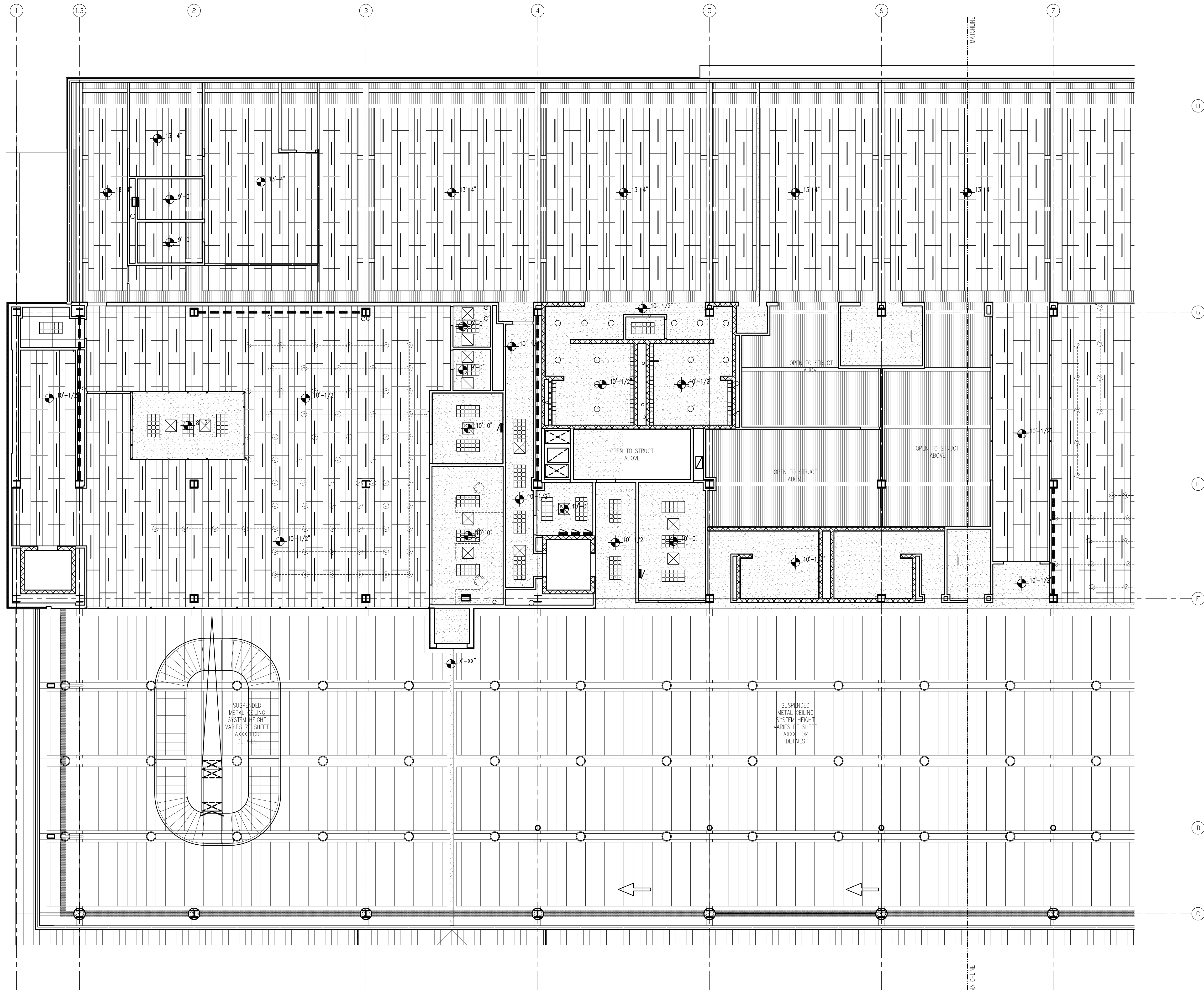
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SHEET TITLE  
**ENLARGED  
FIRST FLOOR  
REFLECTED CEILING  
PLAN AREA B**

SHEET NUMBER  
**A211**

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1 ENLARGED SECOND FLOOR REFLECTED CEILING PLAN - AREA A  
1/8" = 1'-0"

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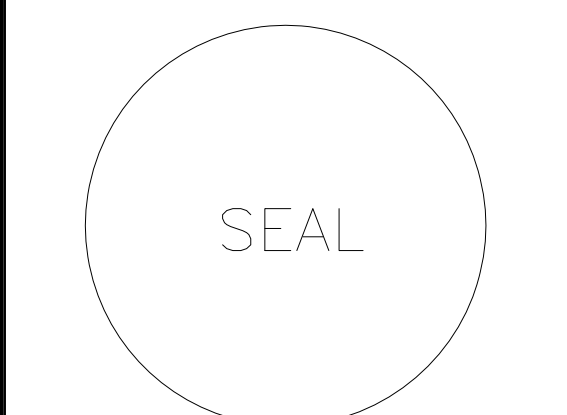
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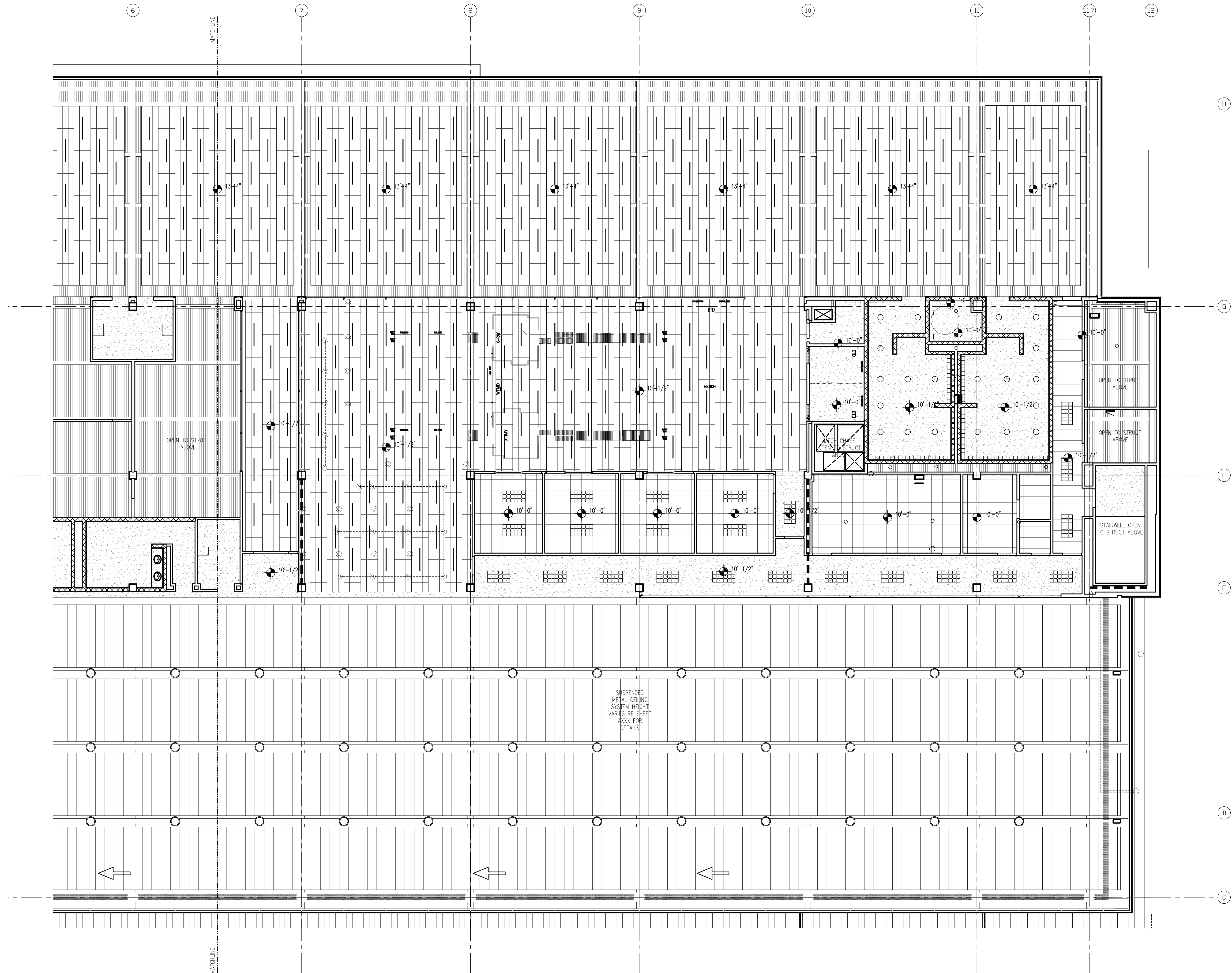
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**SHEET TITLE**  
**ENLARGED  
SECOND FLOOR  
REFLECTED CEILING  
PLAN AREA A**

**SHEET NUMBER**  
**A212**

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1 ENLARGED SECOND FLOOR REFLECTED CEILING PLAN - AREA B  
1/8" = 1'-0"



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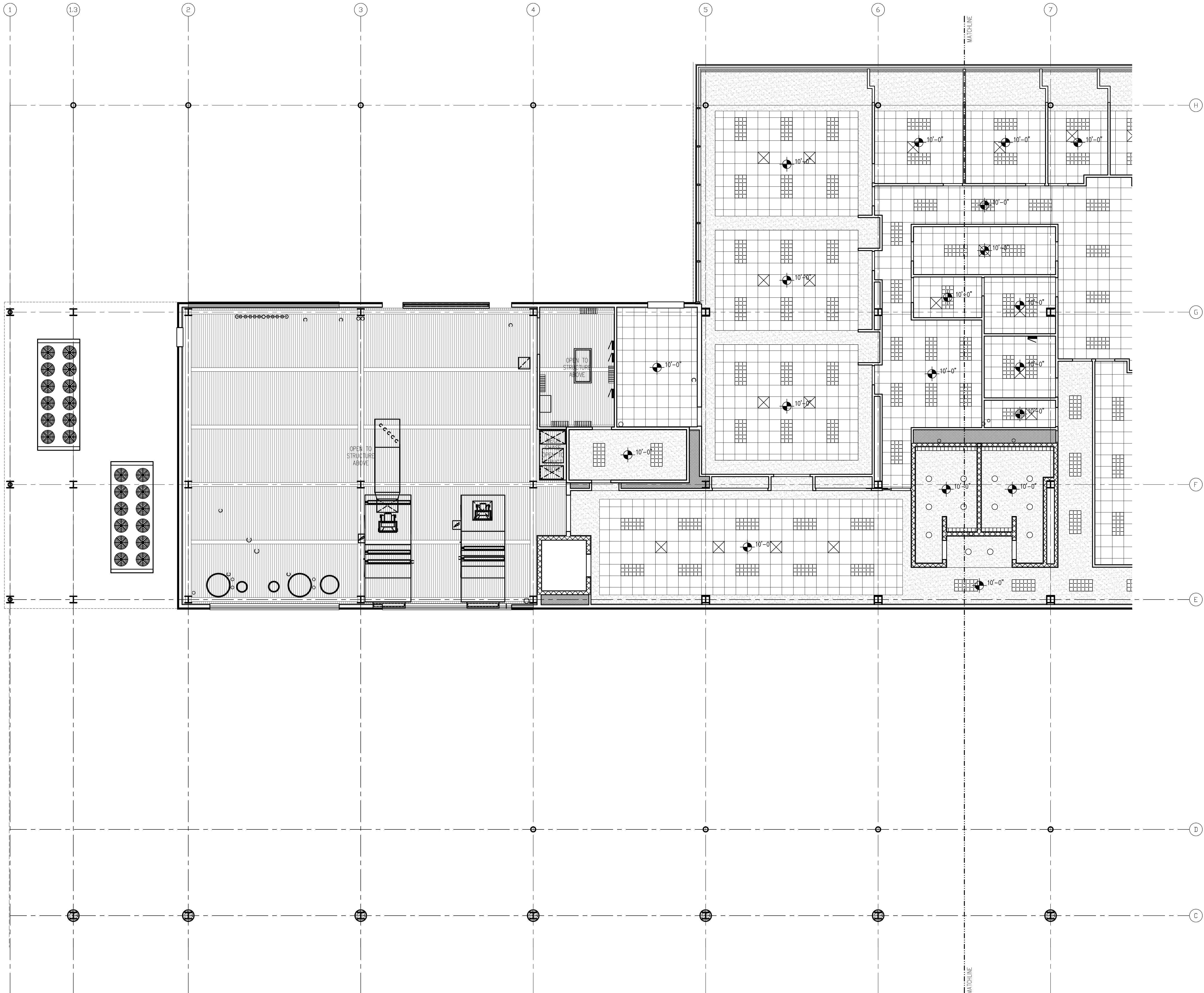
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SHEET TITLE  
ENLARGED  
SECOND FLOOR  
REFLECTED CEILING  
PLAN AREA B

SHEET NUMBER  
A213

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**1** ENLARGED THIRD FLOOR REFLECTED CEILING PLAN - AREA A  
1/8" = 1'-0"



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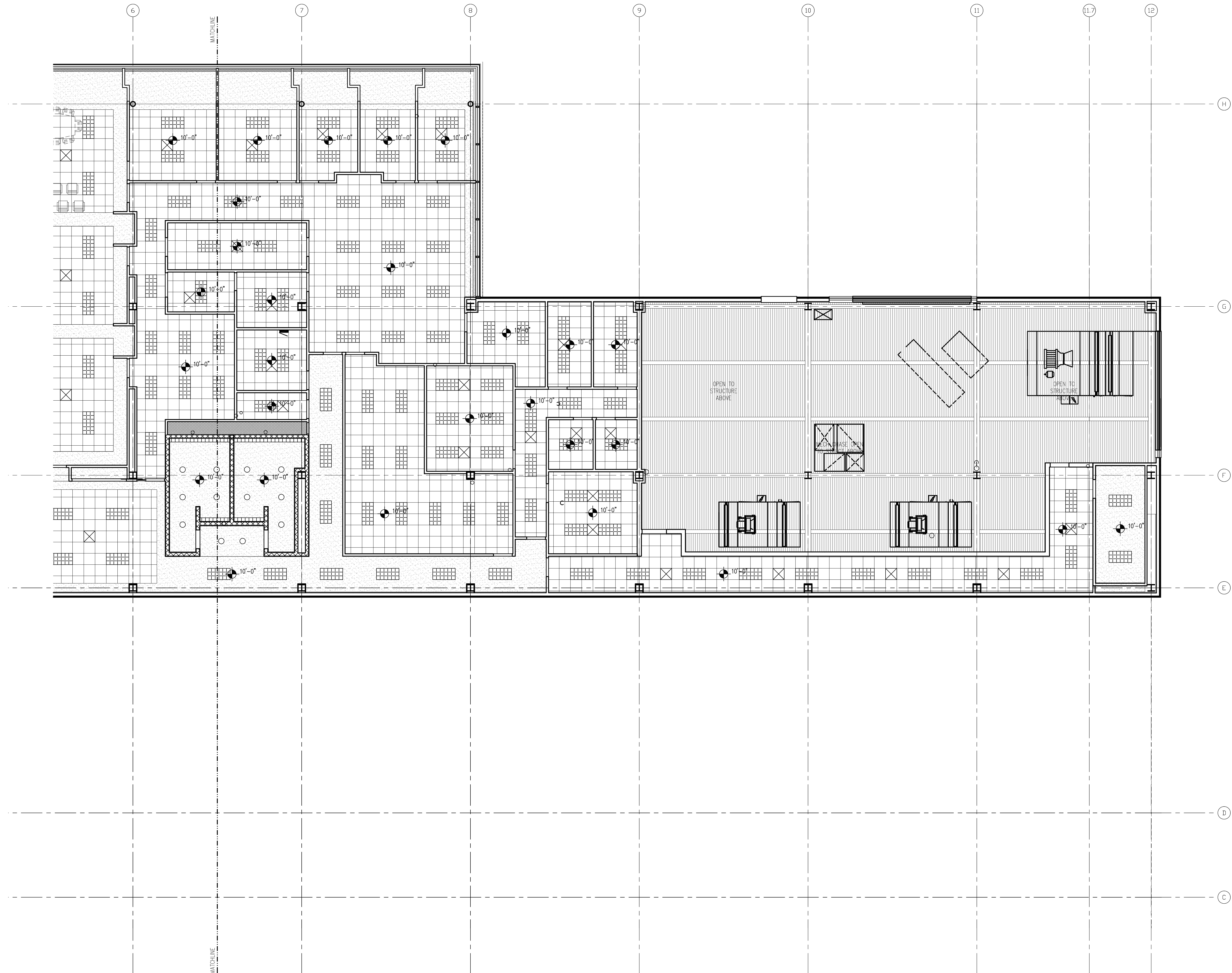
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**SHEET TITLE**  
**ENLARGED THIRD FLOOR REFLECTED CEILING PLAN AREA A**

**SHEET NUMBER**  
**A214**

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1 ENLARGED THIRD FLOOR REFLECTED CEILING PLAN - AREA B  
1/8" = 1'-0"

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SHEET TITLE  
**ENLARGED  
THIRD FLOOR  
REFLECTED CEILING  
PLAN AREA B**

SHEET NUMBER  
**A215**

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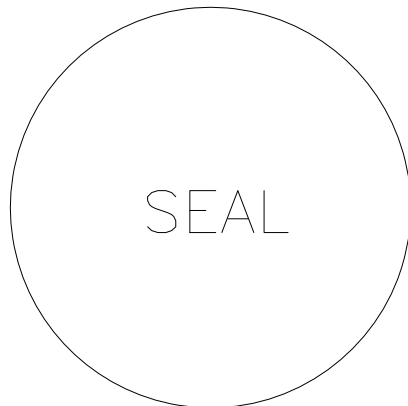
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SHEET TITLE

VESTIBULE AND  
RENTAL CAR  
REFLECTED  
CEILING PLANS

SHEET NUMBER

A216

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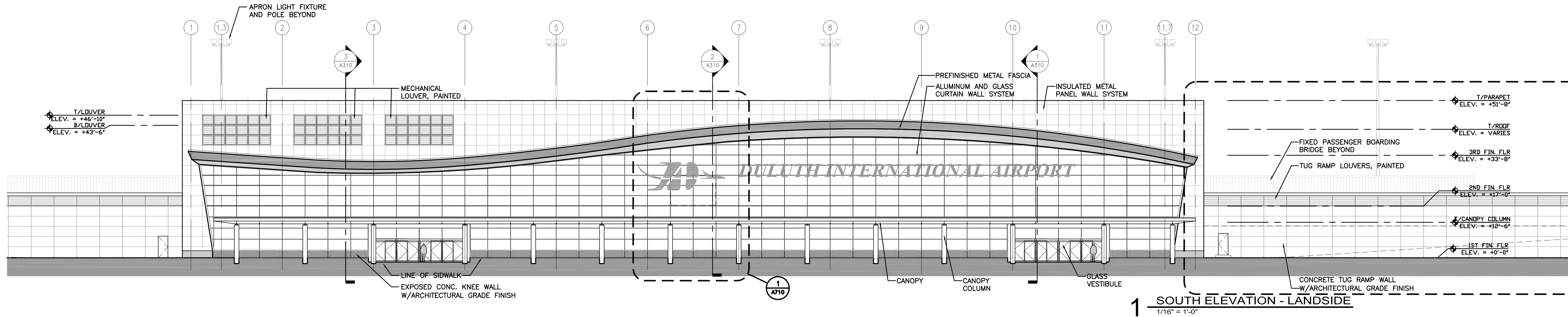
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**EXTERIOR  
ELEVATIONS**

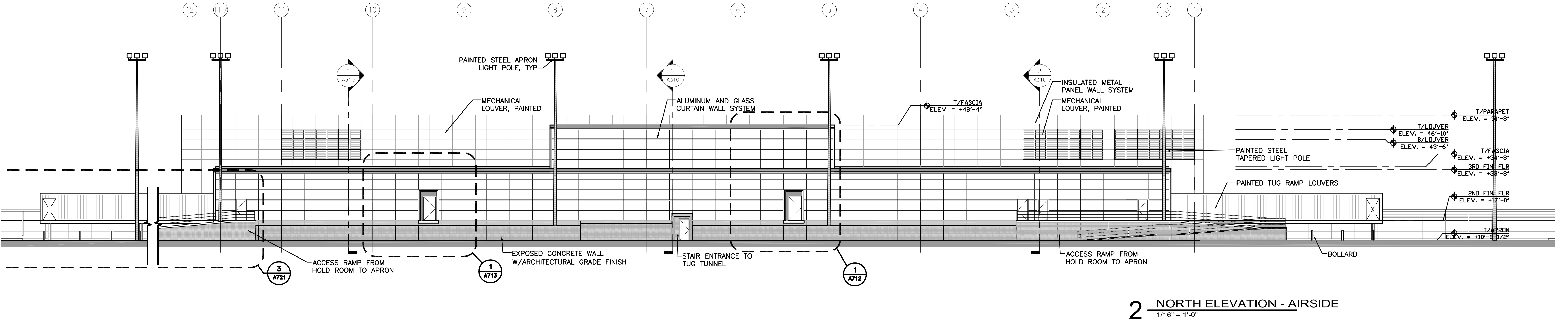
**SHEET NUMBER**

**A301**

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CONSTRUCTION**



**1 SOUTH ELEVATION - LANDSIDE**  
1/16" = 1'-0"



**2 NORTH ELEVATION - AIRSIDE**  
1/16" = 1'-0"



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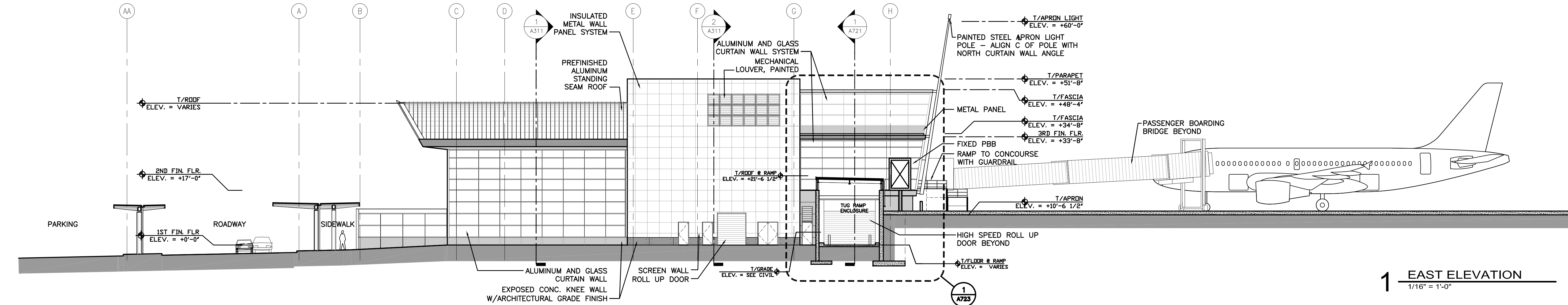
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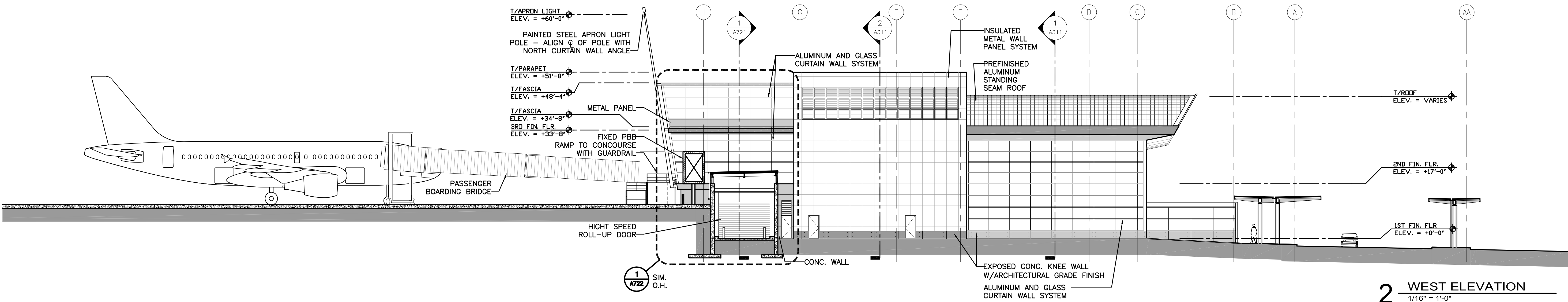
**SHEET TITLE**  
**EXTERIOR  
ELEVATIONS**

**SHEET NUMBER**  
**A302**

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**1 EAST ELEVATION**  
1/16" = 1'-0"



**2 WEST ELEVATION**  
1/16" = 1'-0"





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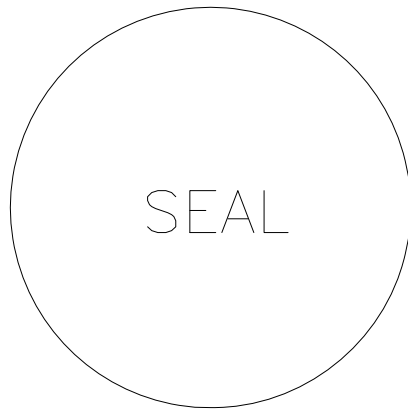
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SHEET TITLE  
CANOPY  
ELEVATIONS

SHEET NUMBER  
A303

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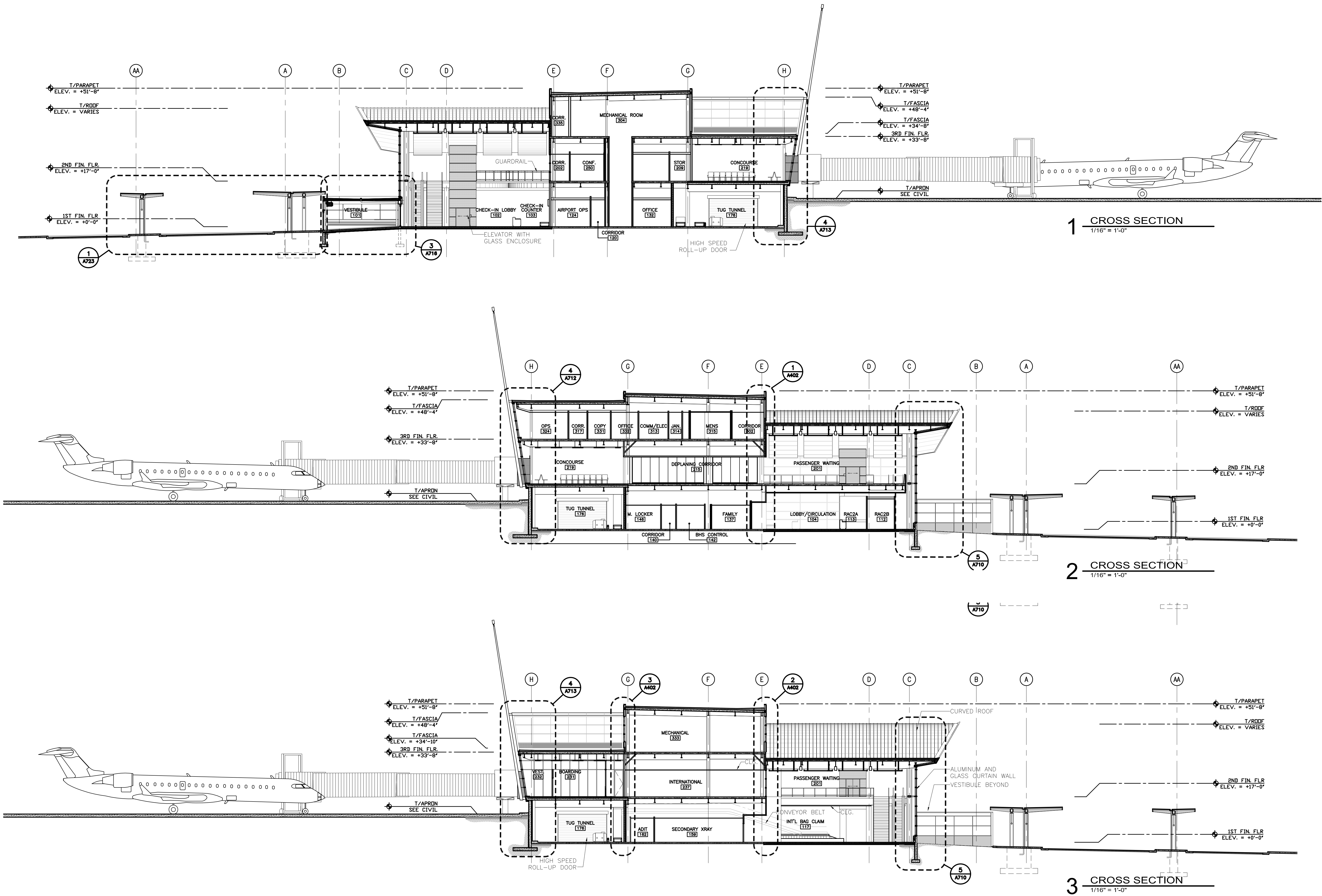
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**SHEET TITLE  
BUILDING  
SECTIONS**

SHEET NUMBER  
**A310**

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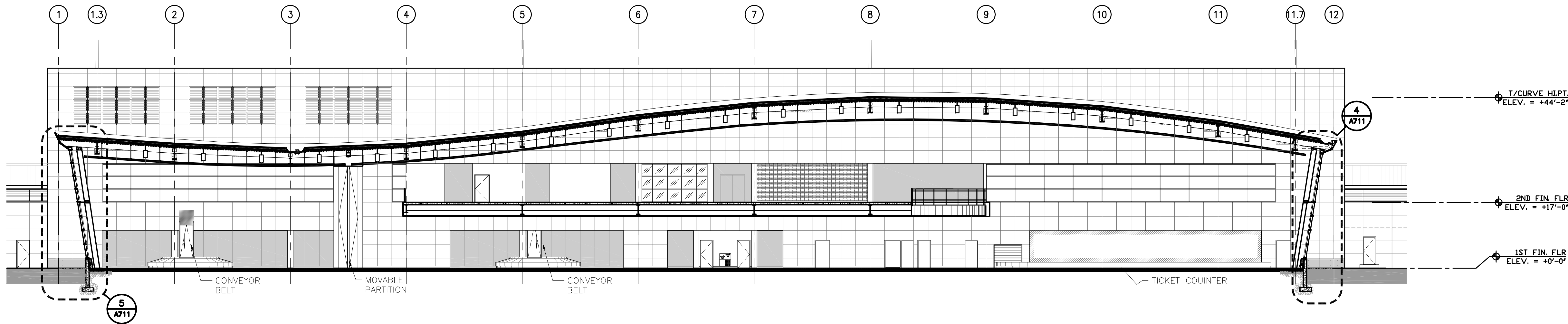
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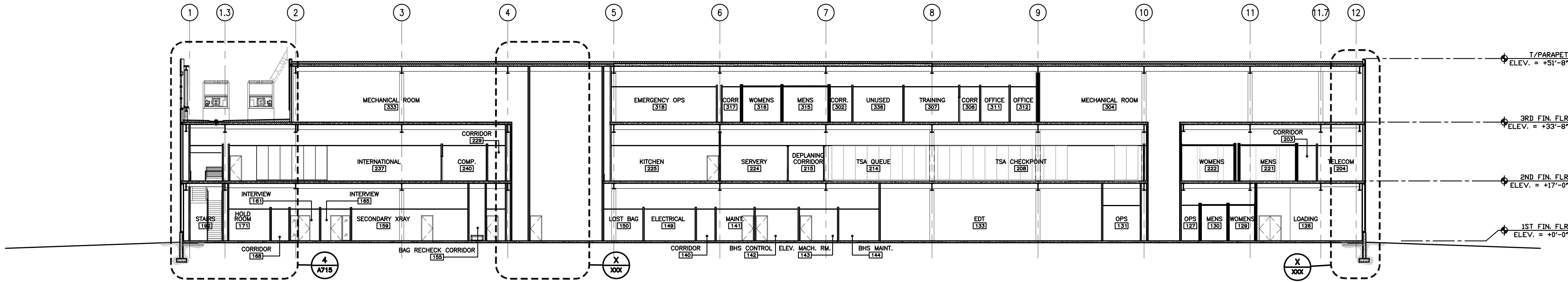
**BUILDING  
SECTIONS**

SHEET NUMBER  
**A311**

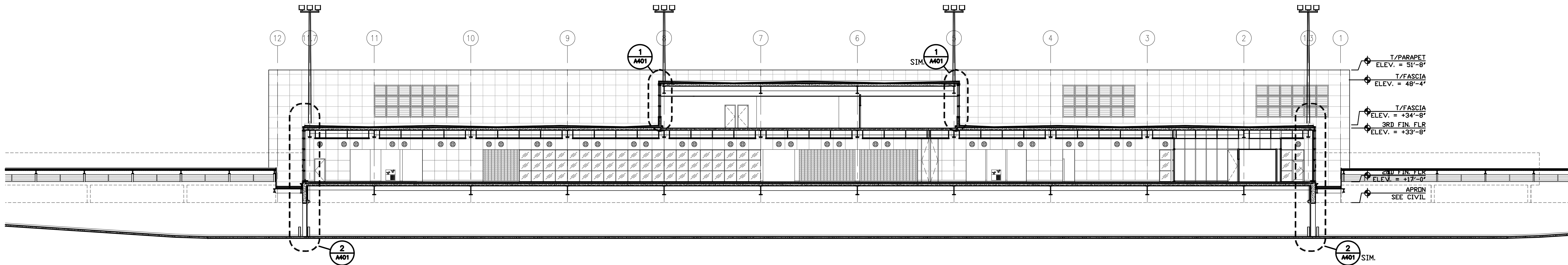
**90% NOT FOR  
CONSTRUCTION**



**1 LONGITUDINAL SECTION**  
1/16" = 1'-0"



**2 LONGITUDINAL SECTION**  
1/16" = 1'-0"



**3 LONGITUDINAL SECTION**  
1/16" = 1'-0"





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DULUTH, MN

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TERMINAL

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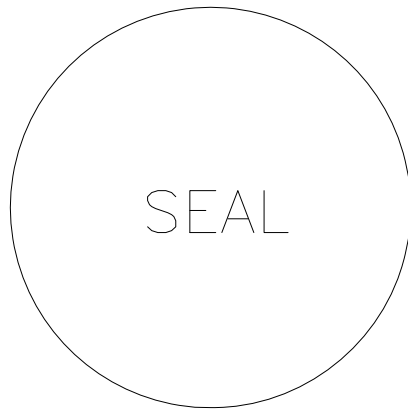
Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 340, Duluth MN 55802  
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
**MBJ CONSULTING ENG.**  
501 Lake Avenue South, Suite 300, Duluth MN 55802  
TEL: (218) 722-1056 / FAX: (218) 722-9306

M/E/P/F/P Engineers:  
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Baggage Handling Systems Consultants:  
**BNP ASSOCIATES INC.**  
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TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants:  
**APPOLD DESIGN**  
2432 East First Street, Duluth MN 55812  
TEL: (218) 591-5079



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
213-1882-091  
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SHEET TITLE  
BUILDING  
SECTIONS

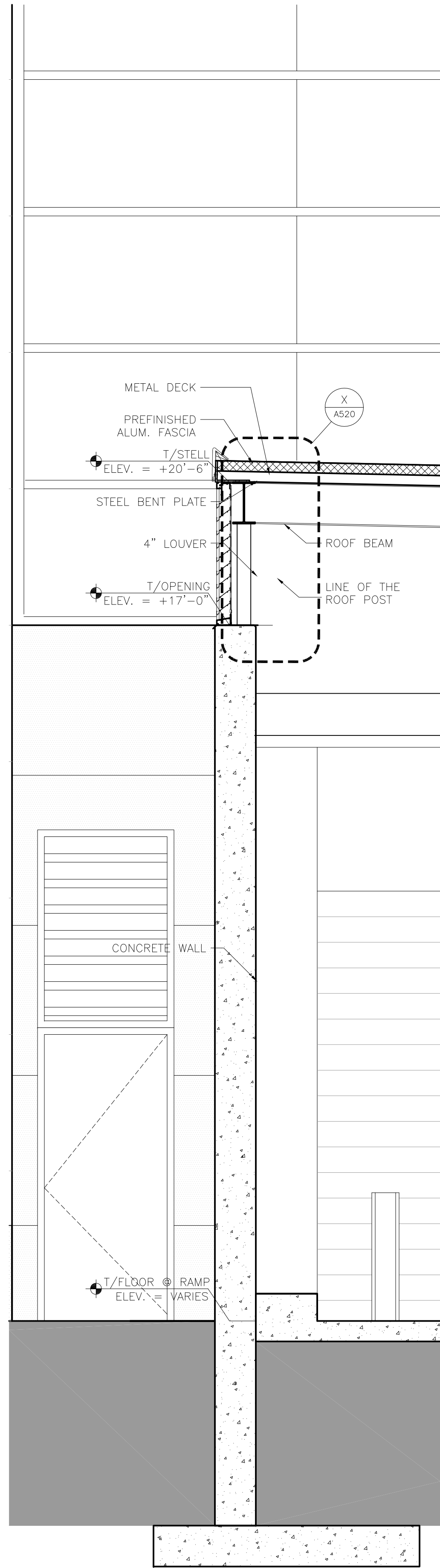
SHEET NUMBER  
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90% NOT FOR  
CONSTRUCTION

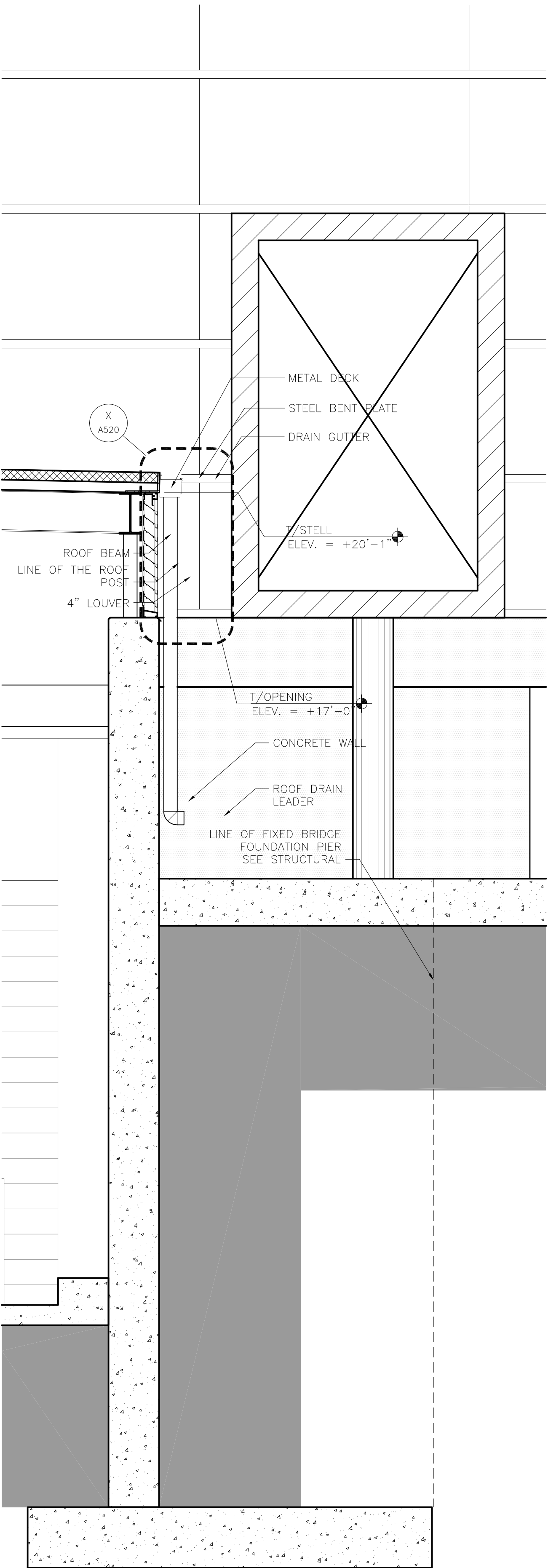




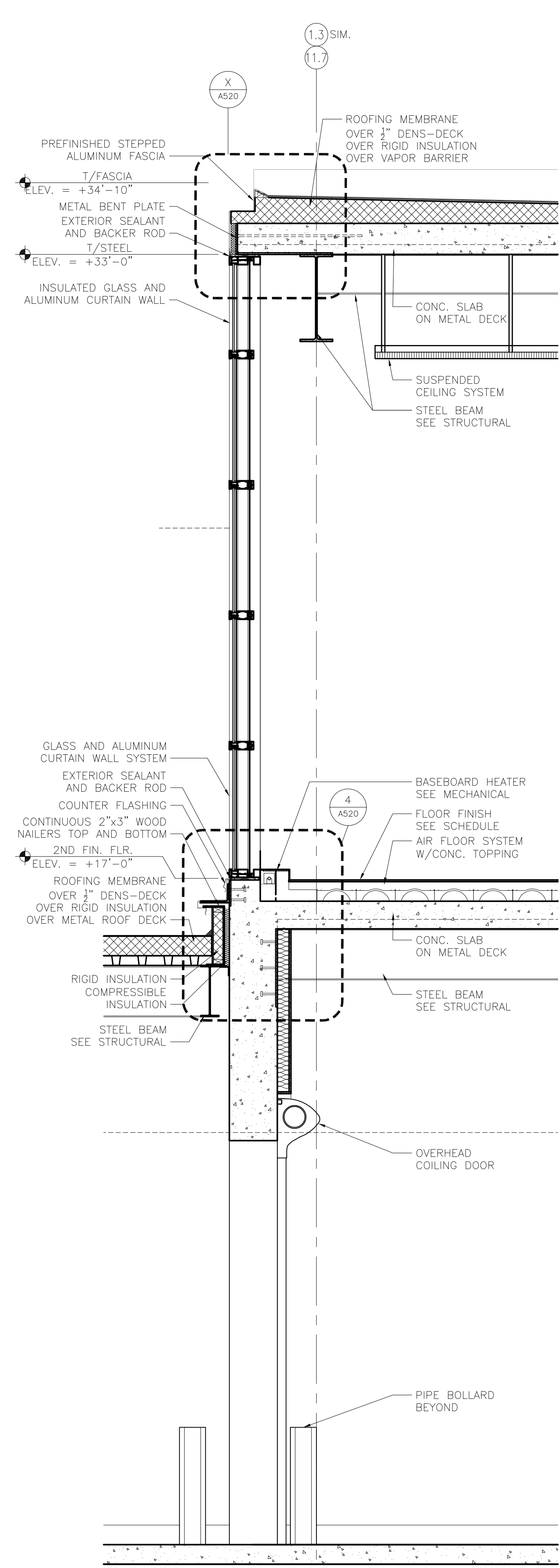




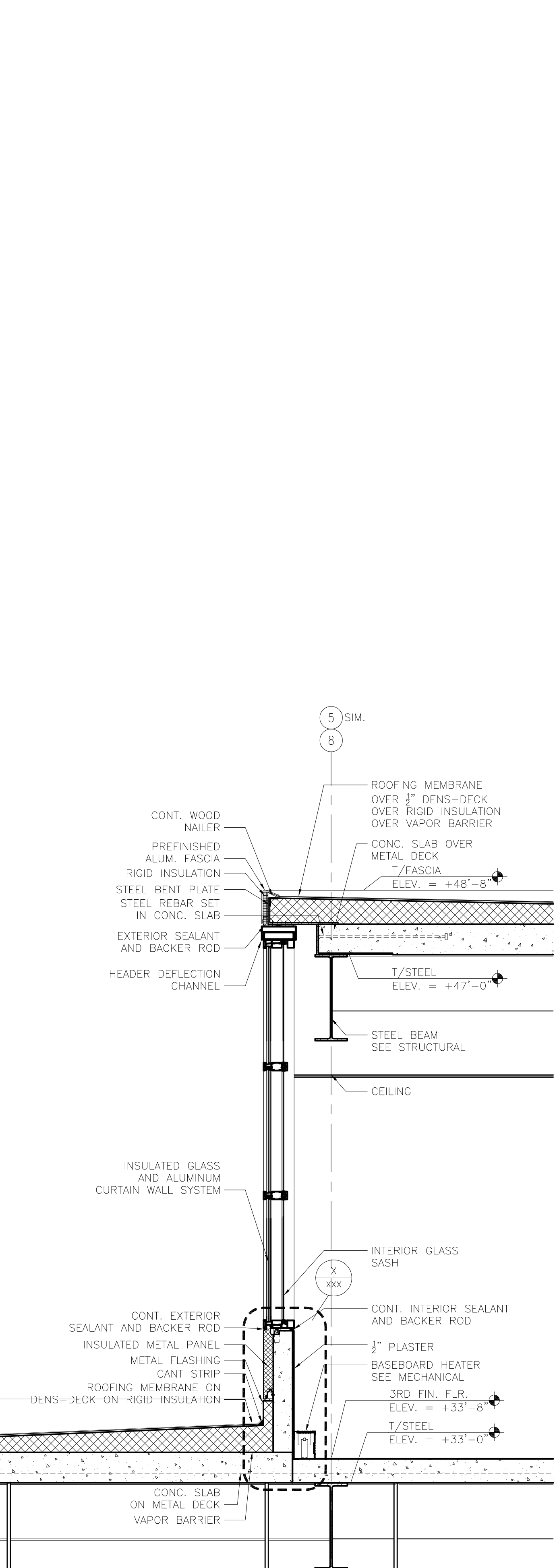
4 WALL SECTION @ TUG TUNNEL  
1/2" = 1'-0"



3 WALL SECTION @ TUG TUNNEL  
1/2" = 1'-0"



2 WALL SECTION @ CONCOURSE CURTAIN WALL  
1/2" = 1'-0"



1 WALL SECTION @ ADMIN CURTAIN WALL  
1/2" = 1'-0"



**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**

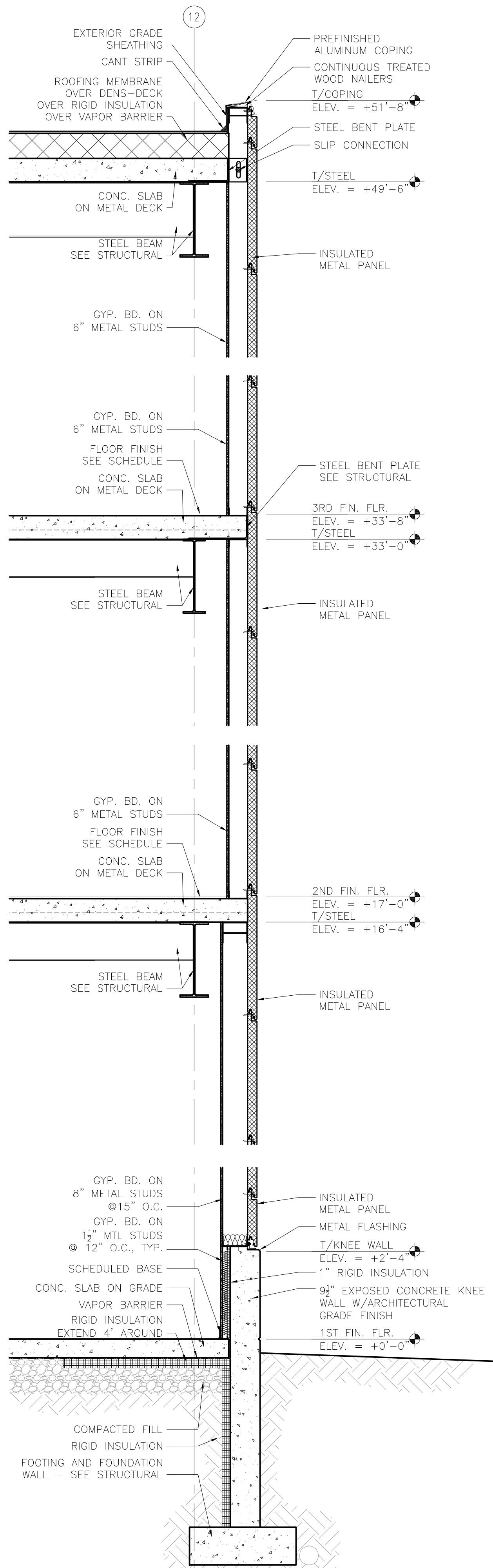
© 2006 REYNOLDS, SMITH AND HILLS INC.

**SHEET TITLE**  
**WALL SECTIONS**

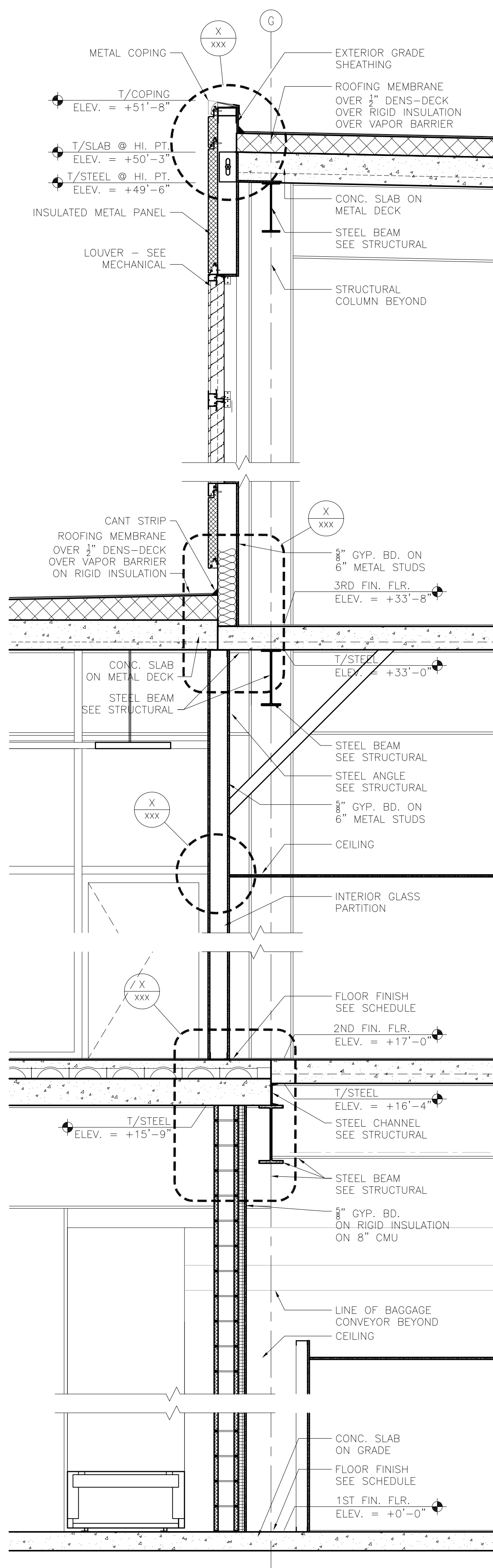
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**A401**

**90% NOT FOR  
CONSTRUCTION**

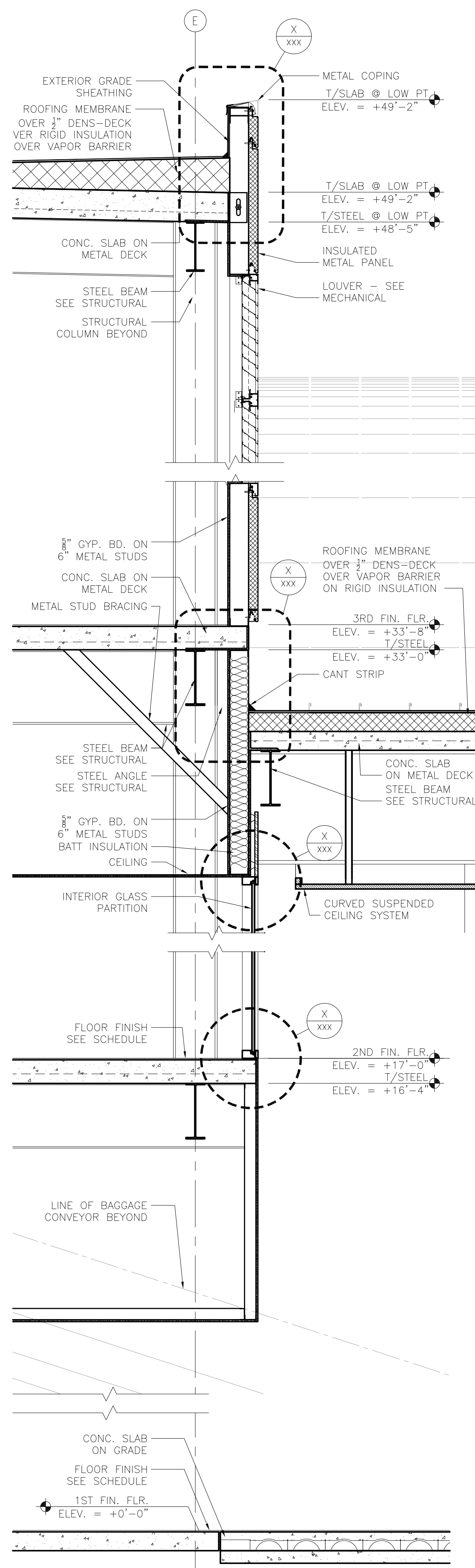




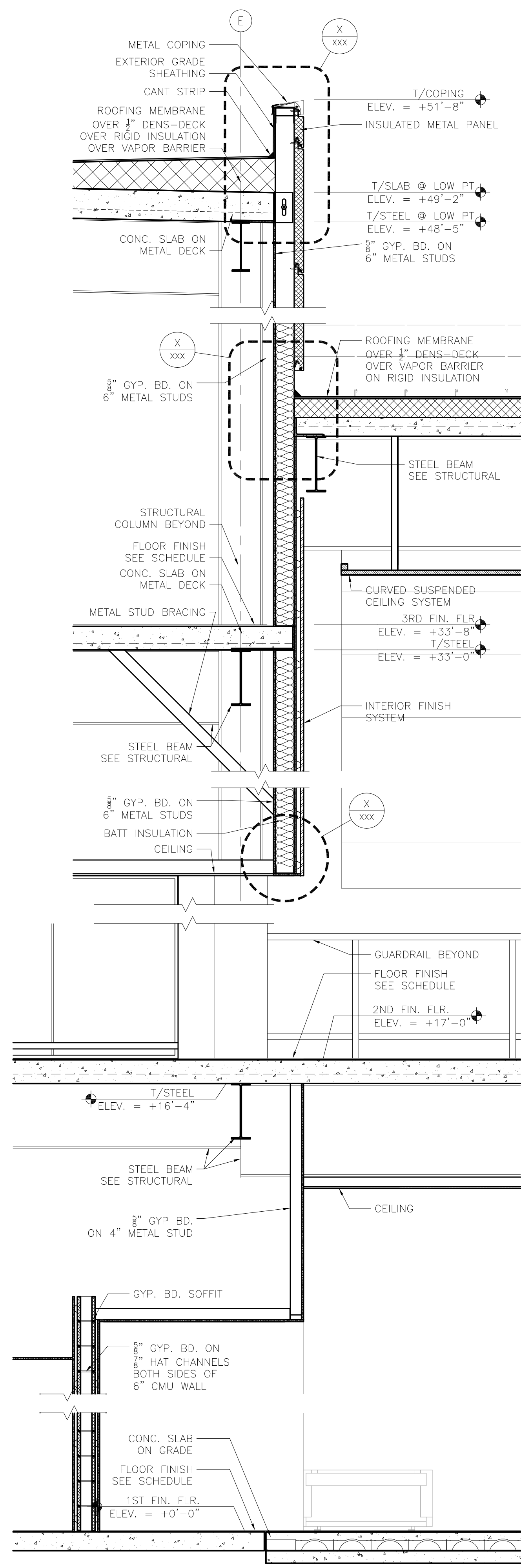
4 WALL SECTION @ CORE WALL  
1/2" = 1'-0"



3 WALL SECTION @ CORE WALL  
1/2" = 1'-0"



2 WALL SECTION @ CORE WALL  
1/2" = 1'-0"



1 WALL SECTION @ CORE WALL  
1/2" = 1'-0"



REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC  
AEP PROJECT NUMBER  
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SHEET TITLE  
**WALL SECTIONS**

SHEET NUMBER  
**A402**

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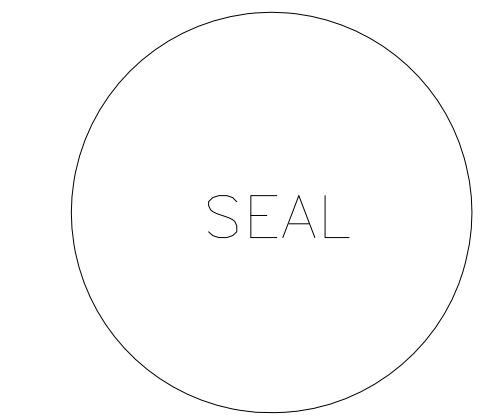
Interior Architects:  
SJA ARCHITECTS  
11 E Superior Street Suite 340, Duluth MN 55802  
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
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Landscaping Consultants:  
APPOLD DESIGN  
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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: XX  
DRAWN BY: XX  
DESIGNED BY: XX

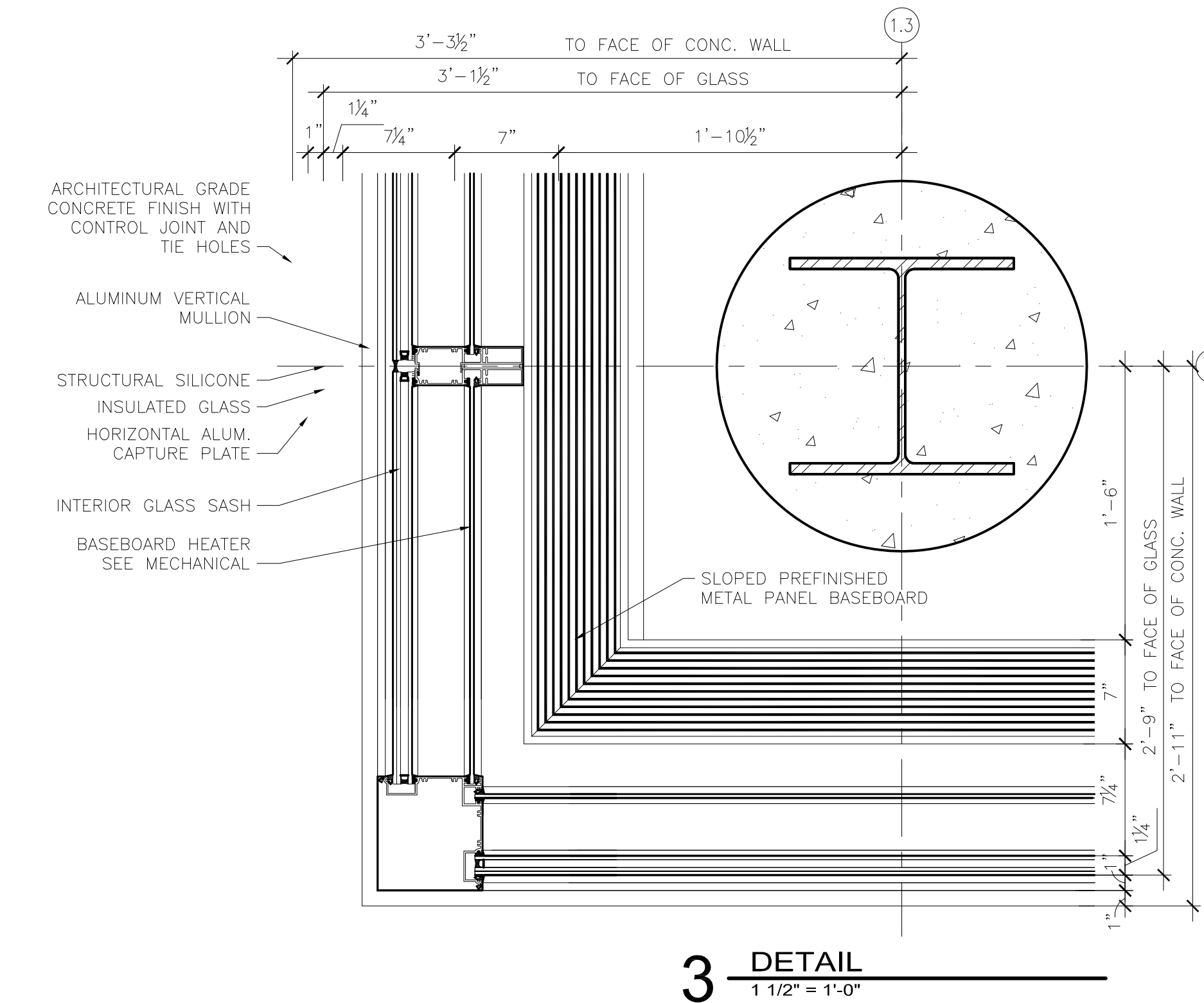
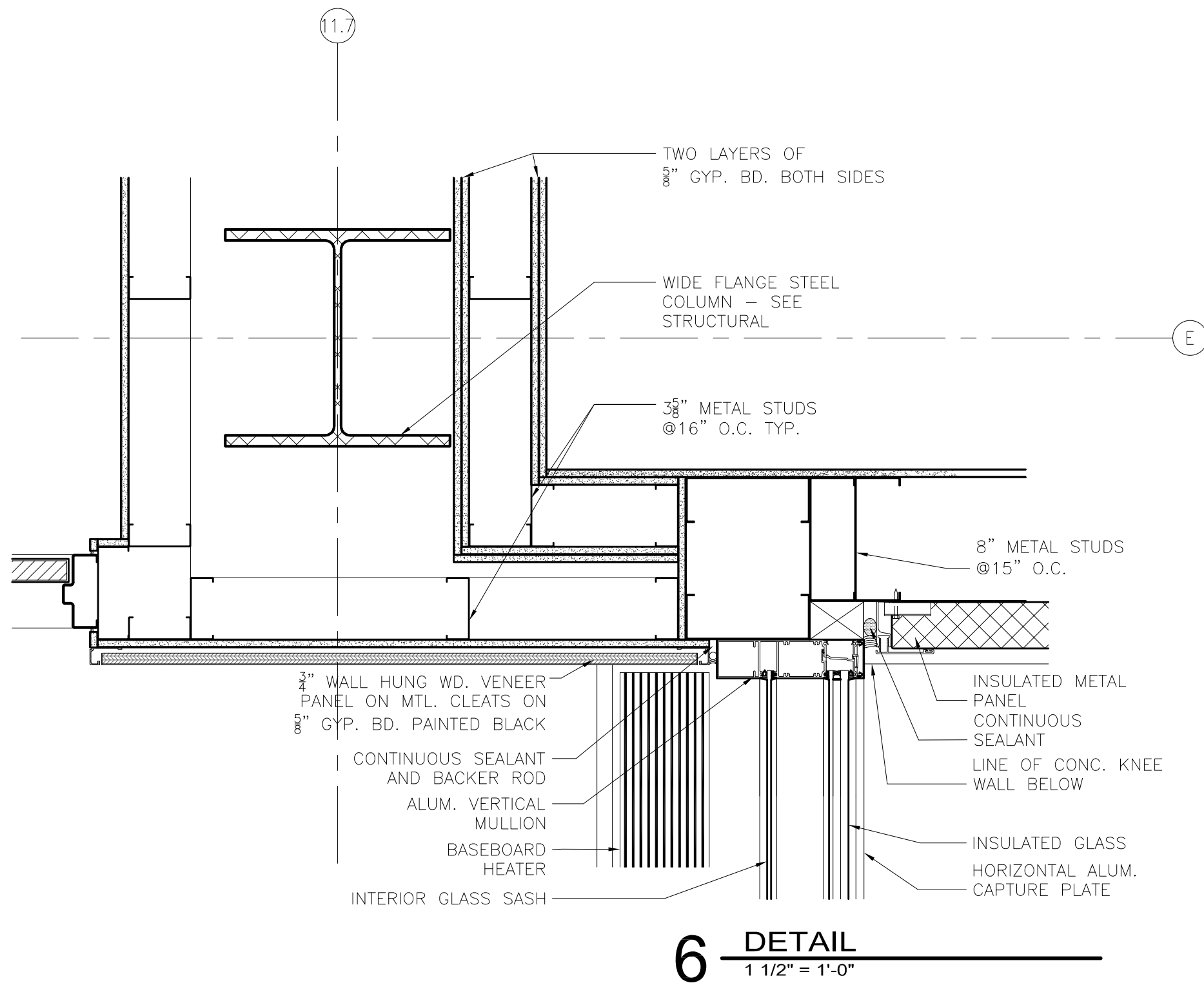
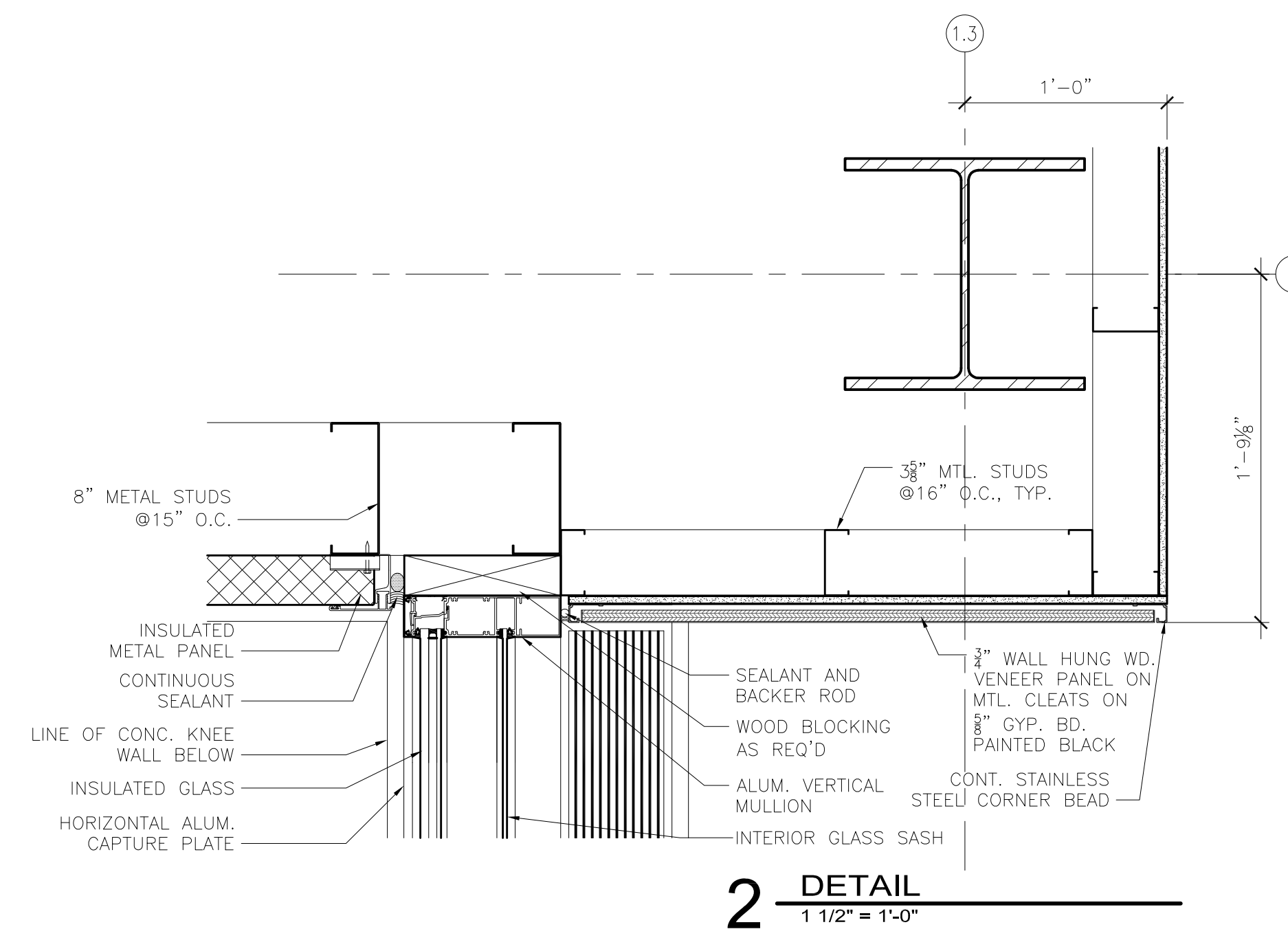
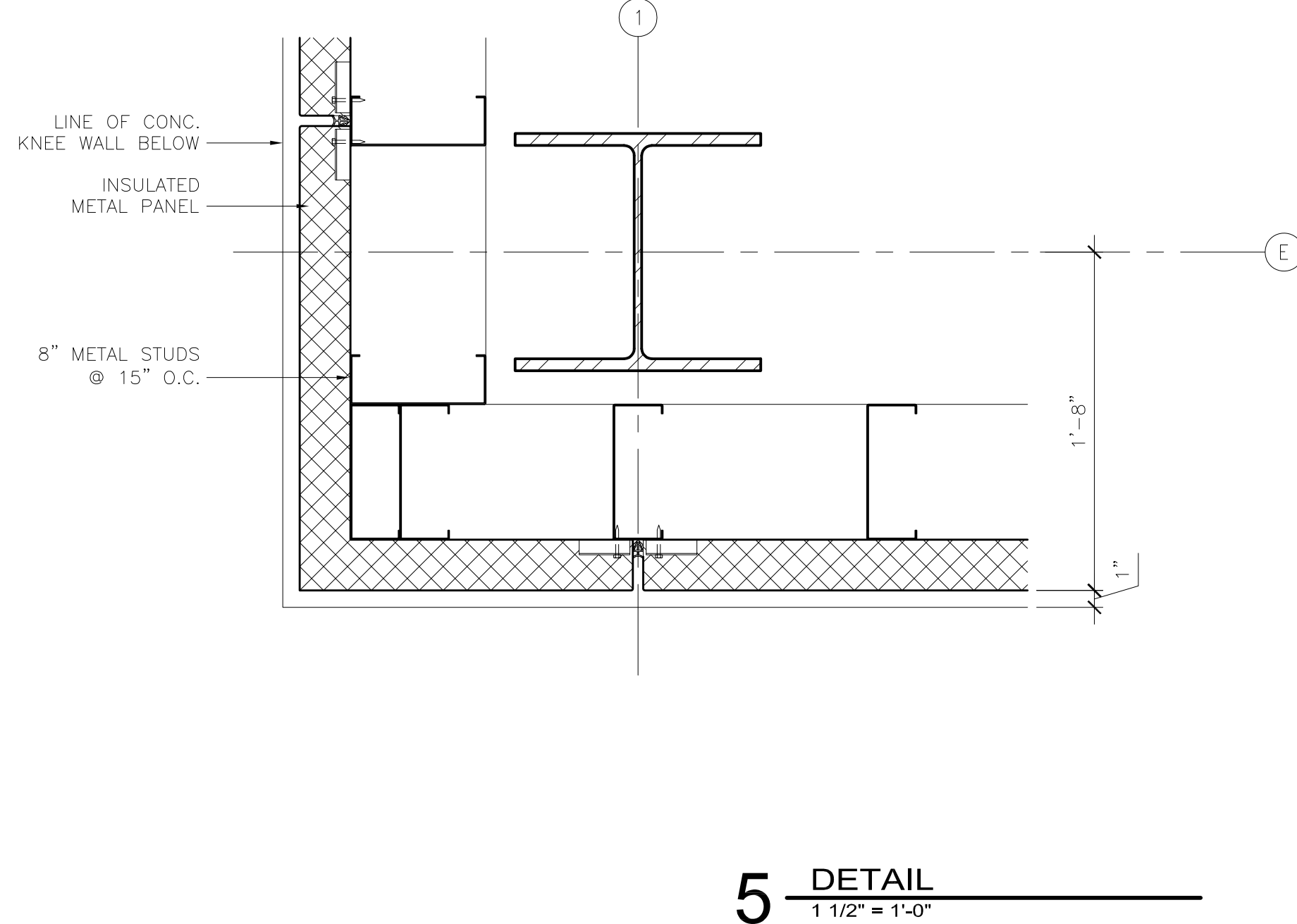
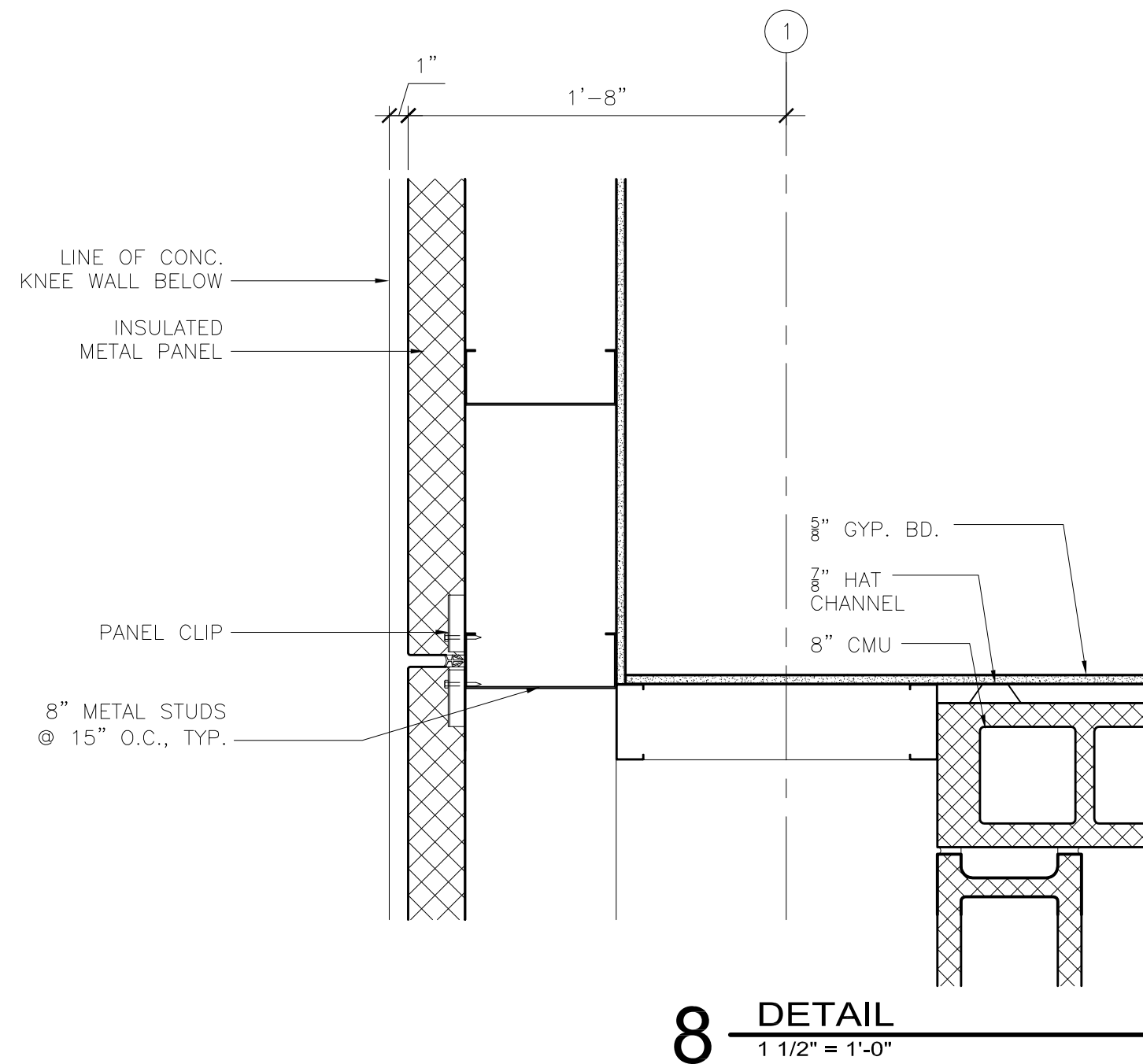
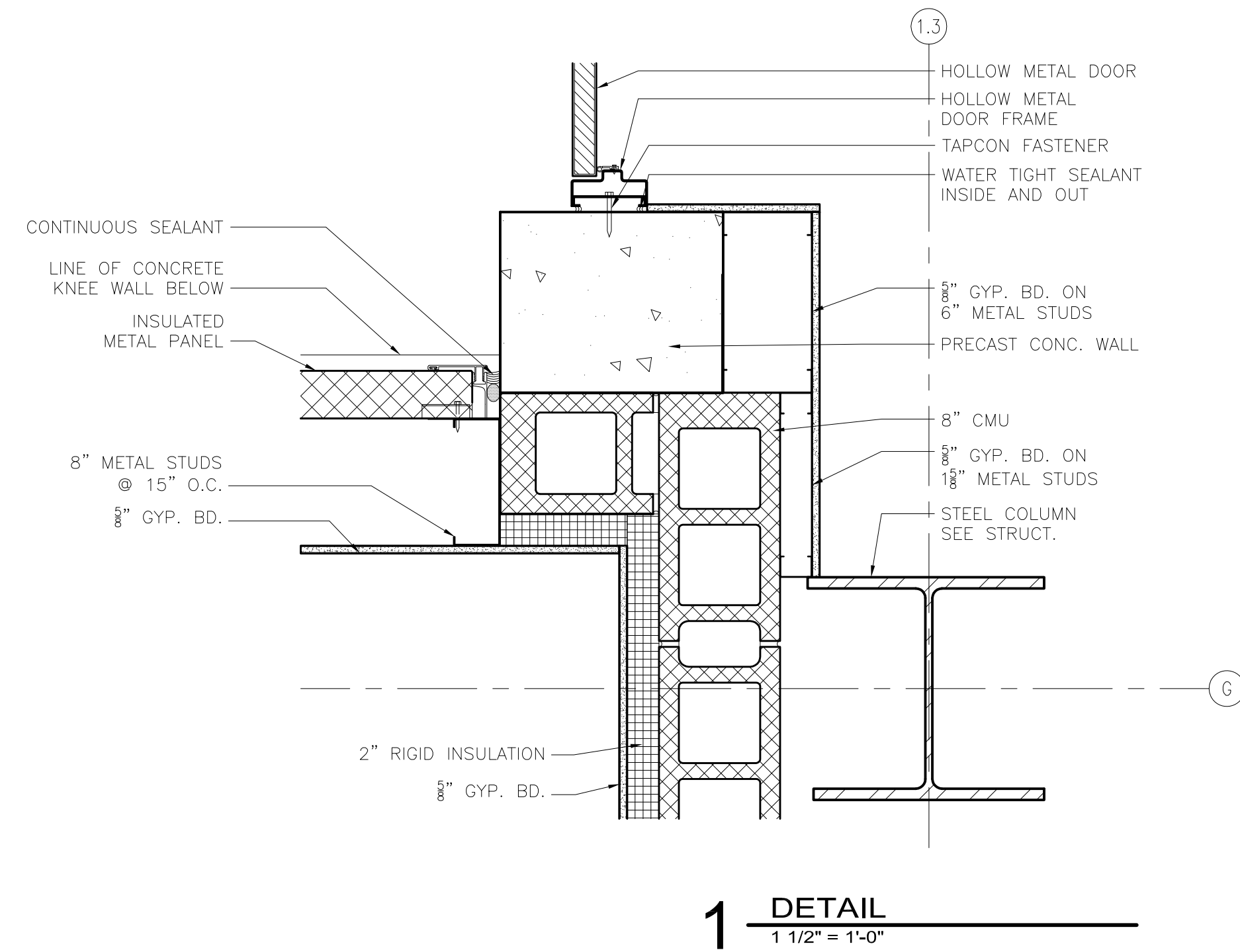
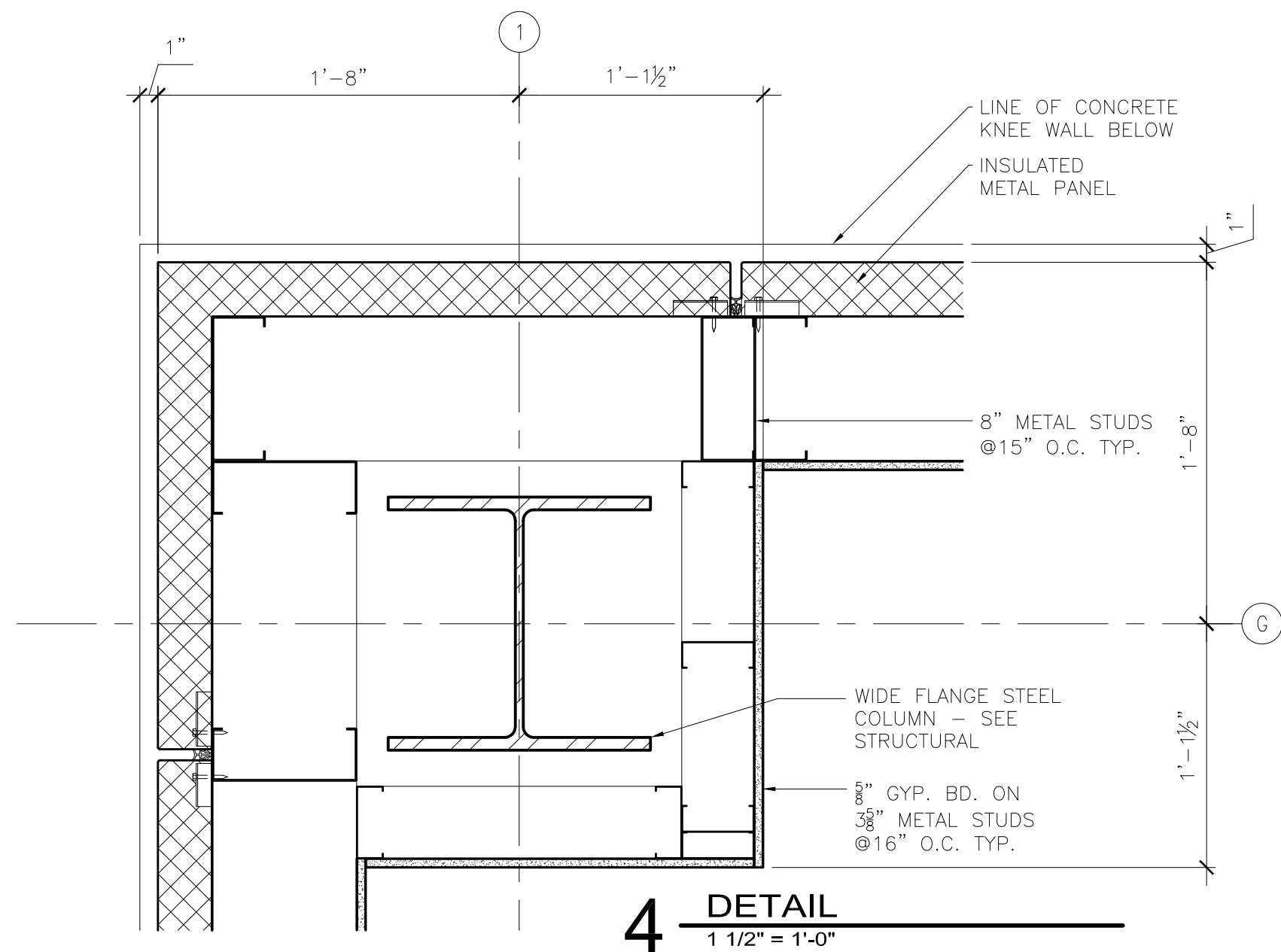
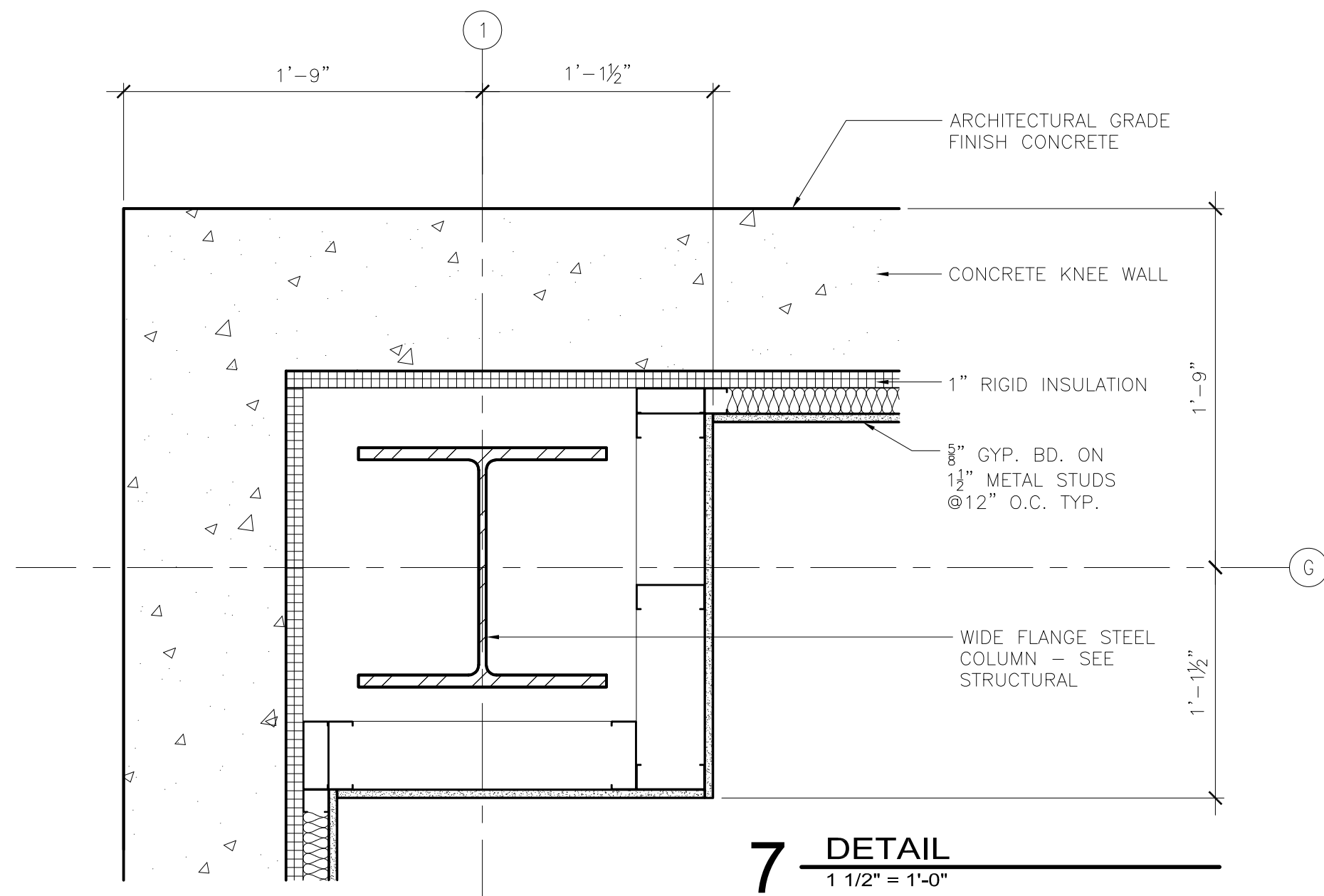
AEP PROJECT NUMBER  
218-1882-091  
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© 2006 REYNOLDS, SMITH AND HILLS INC.

SHEET TITLE  
-  
-  
-  
-  
-

SHEET NUMBER  
A403

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**DULUTH INTERNATIONAL AIRPORT  
DULUTH, MN**

**NEW PASSENGER TERMINAL**

**CONSULTANTS**

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Structural Engineers:  
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Landscaping Consultants:  
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TEL: (218) 591-5079



**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**

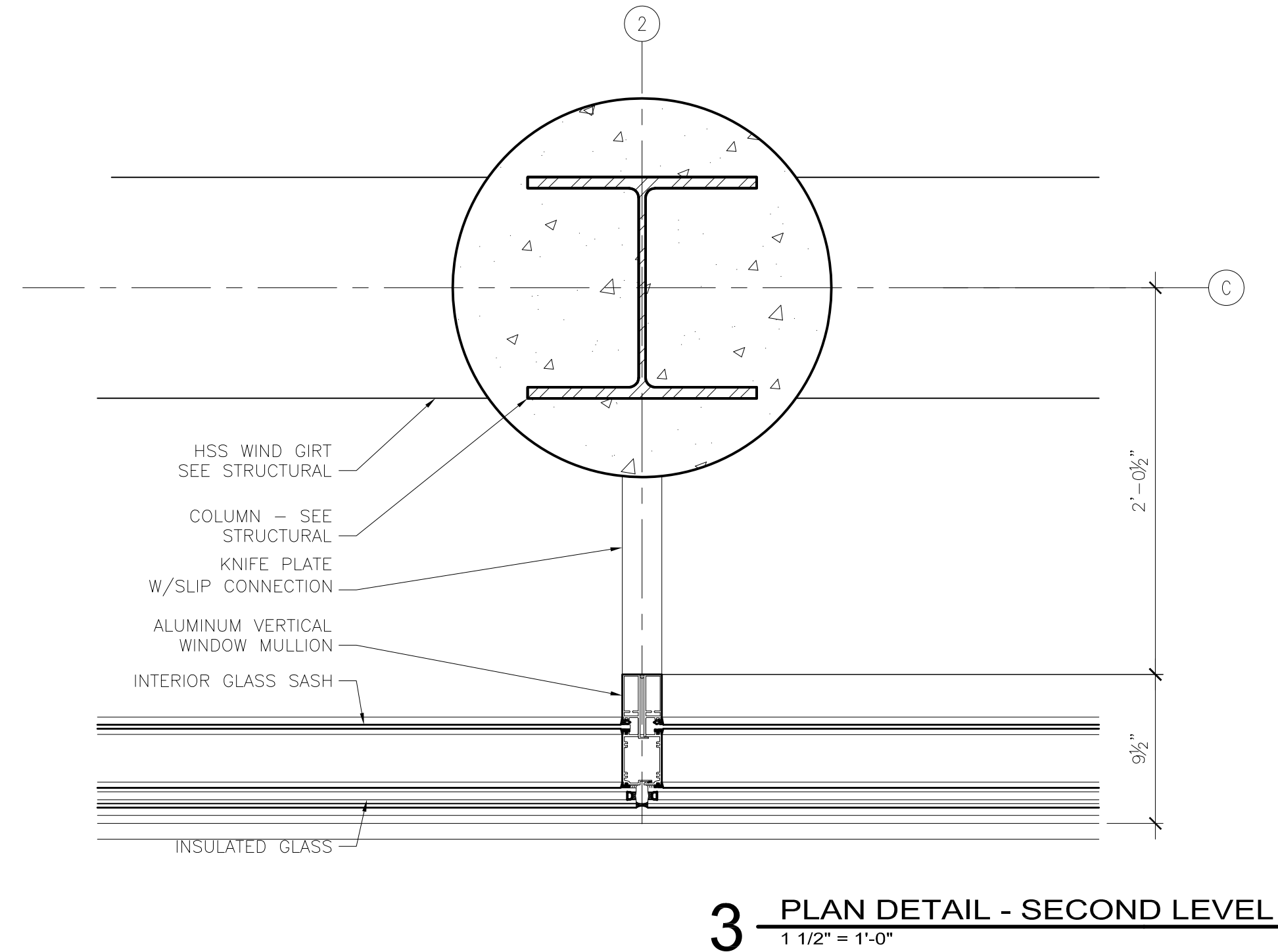
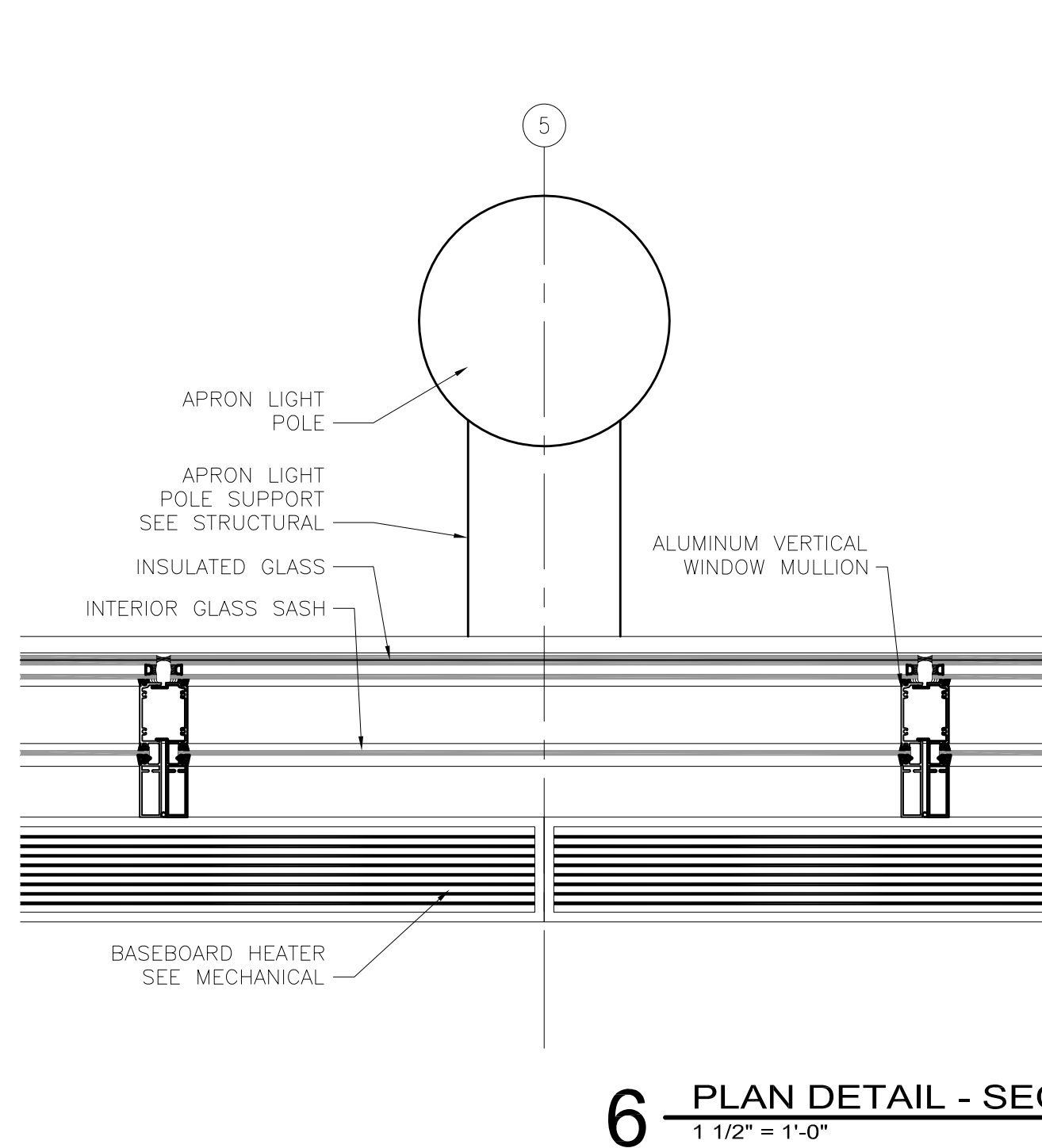
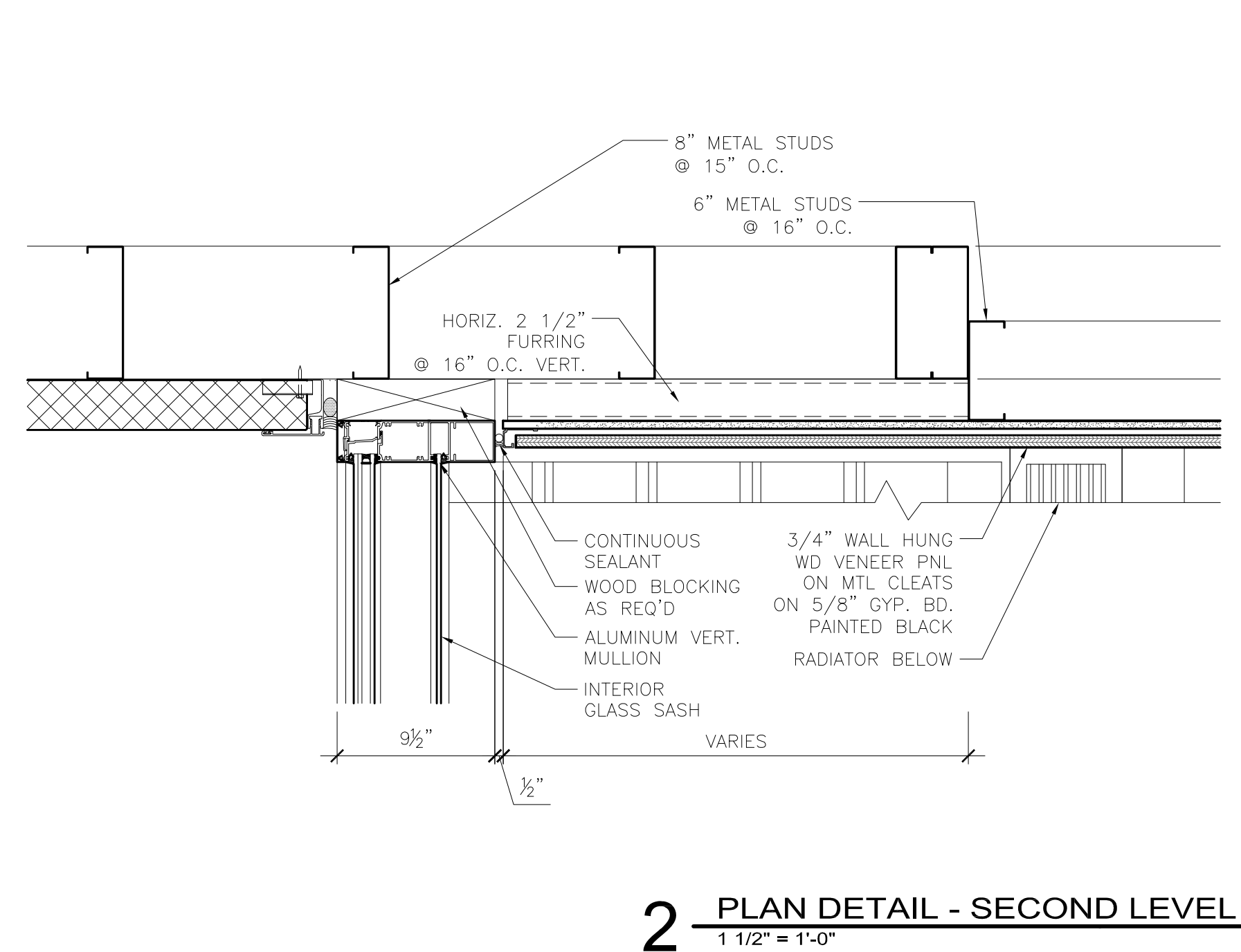
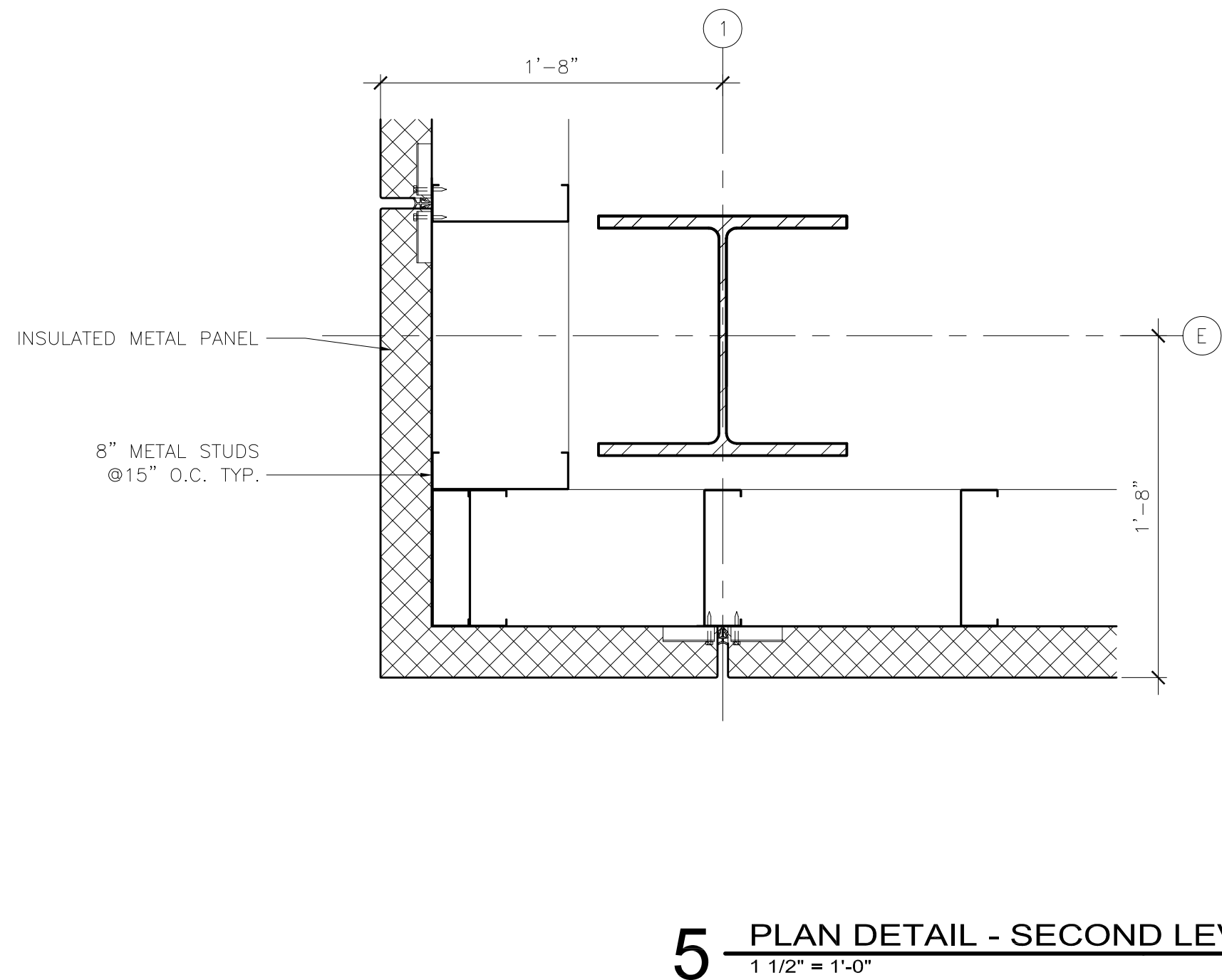
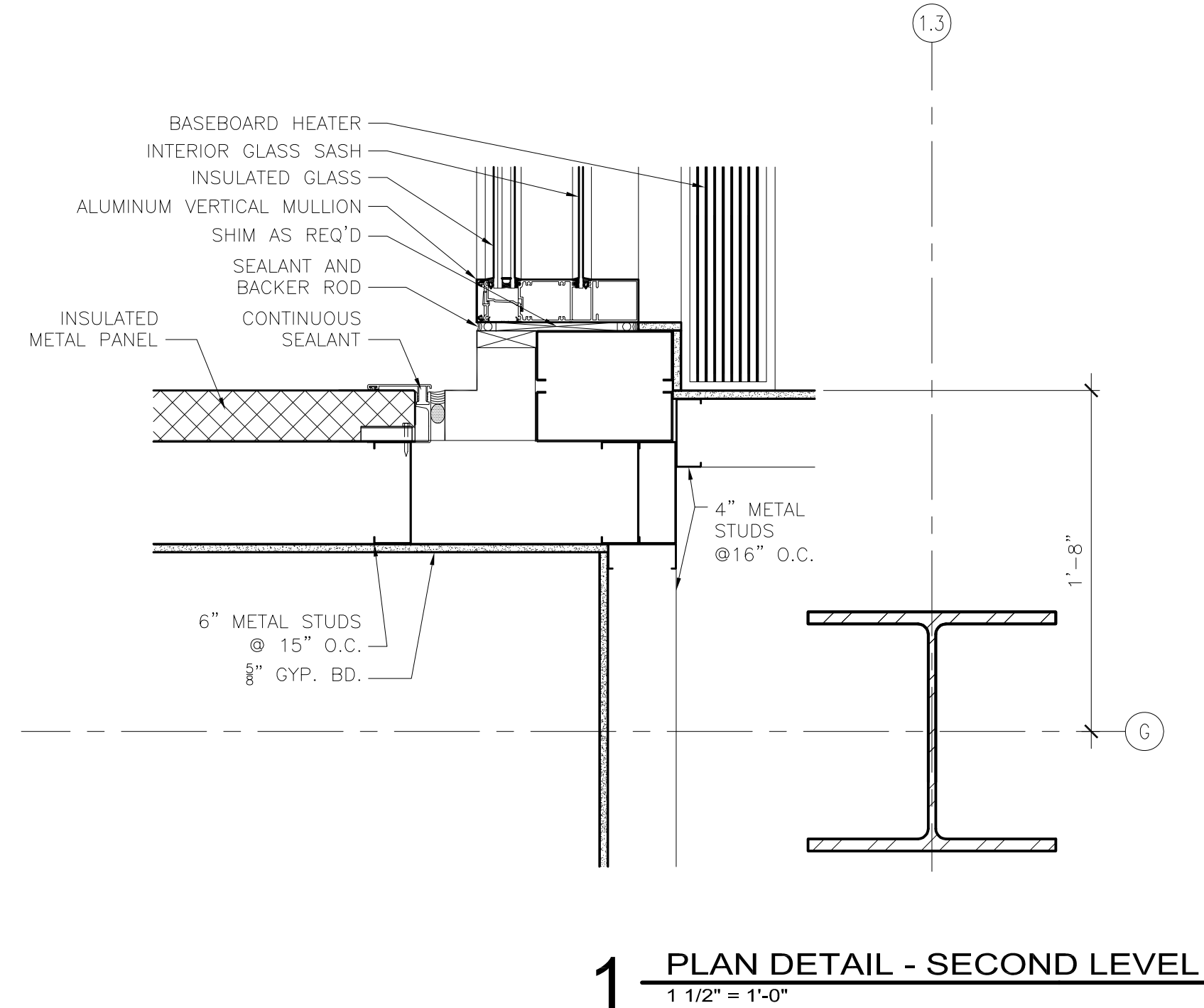
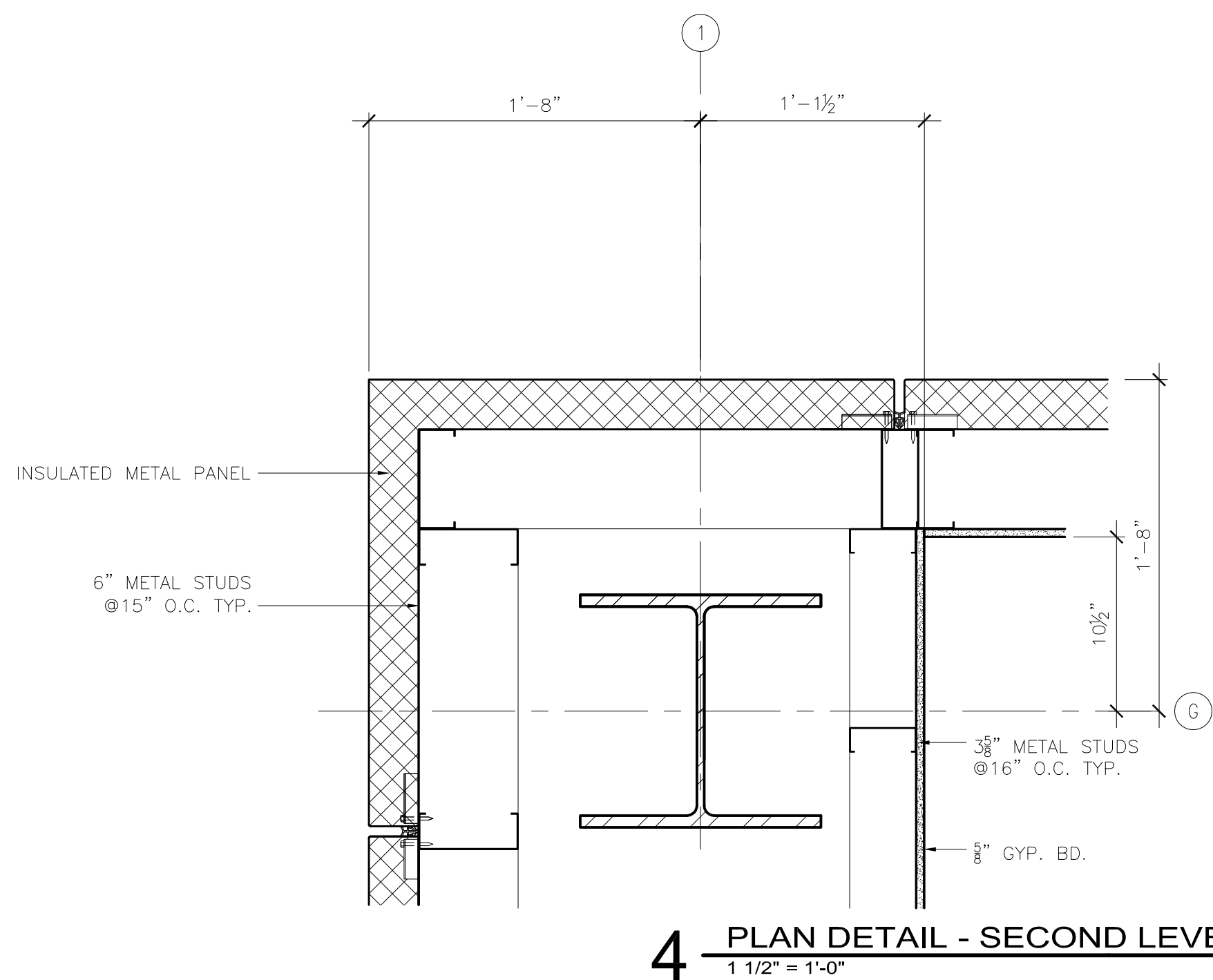
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SHEET TITLE  
**PLAN DETAILS**

SHEET NUMBER  
**A510**

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Baggage Handling Systems Consultants:  
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Landscaping Consultants:  
**APPOLD DESIGN**  
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TEL: (218) 591-5079



**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**

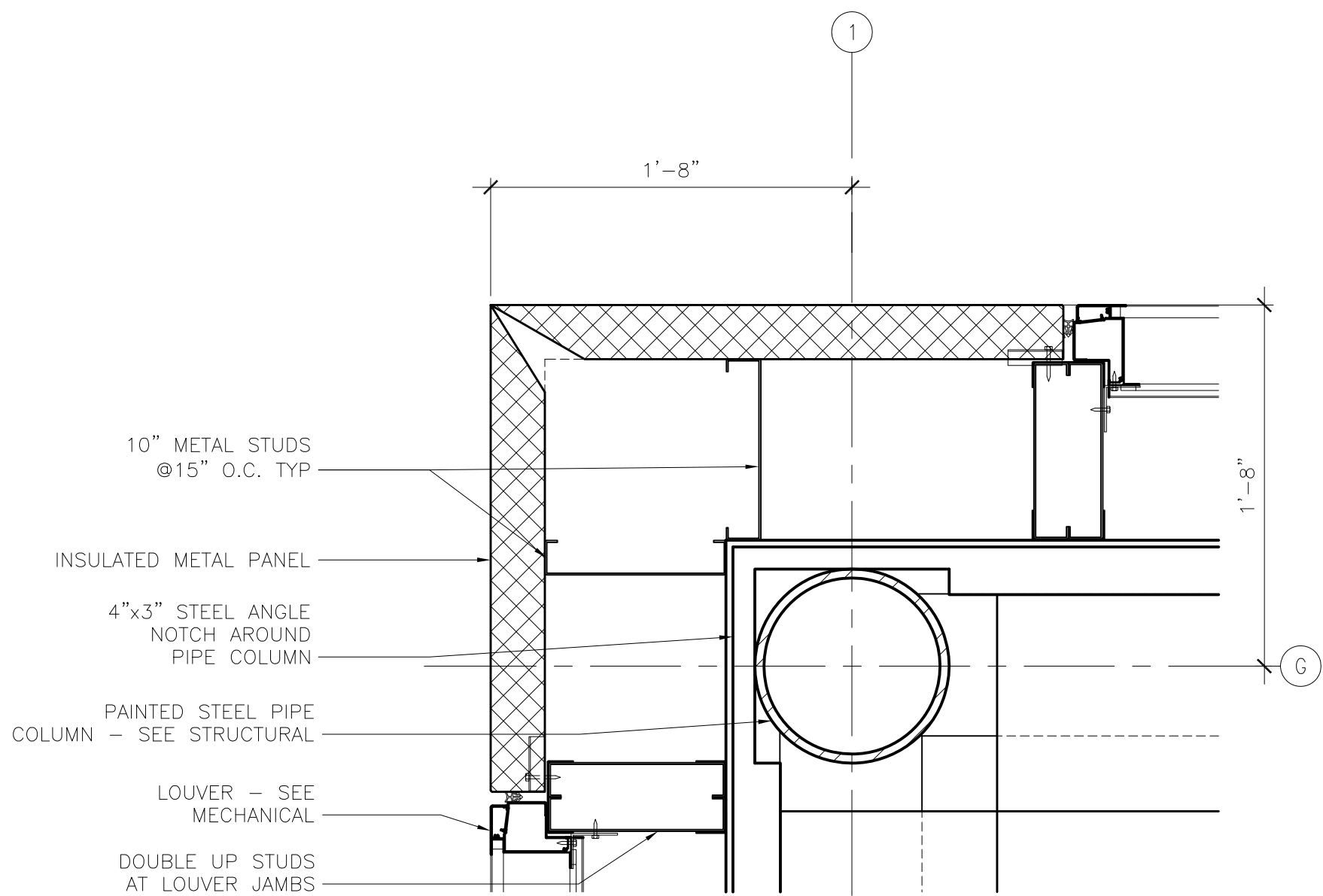
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SHEET TITLE  
**PLAN DETAILS**

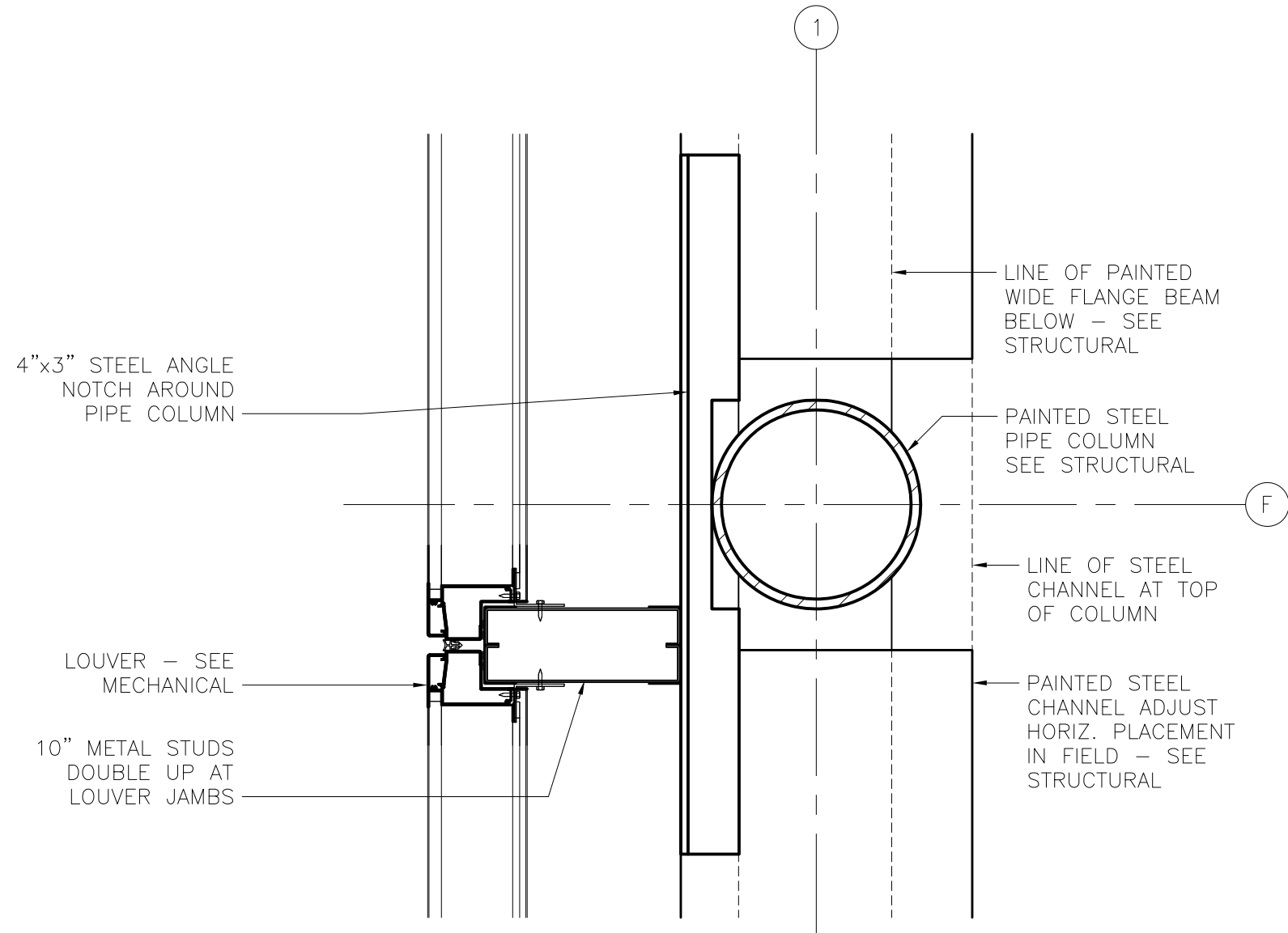
SHEET NUMBER  
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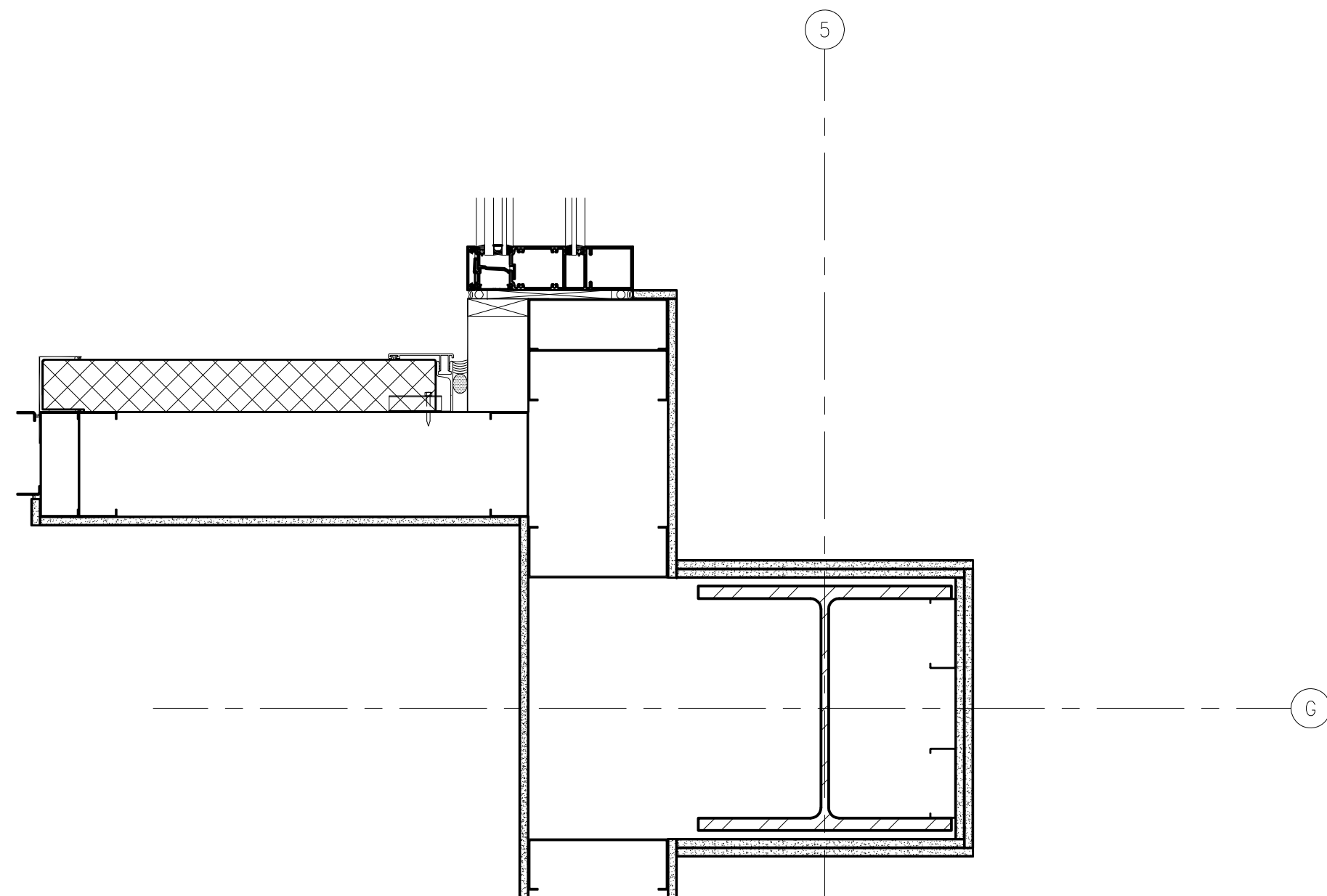




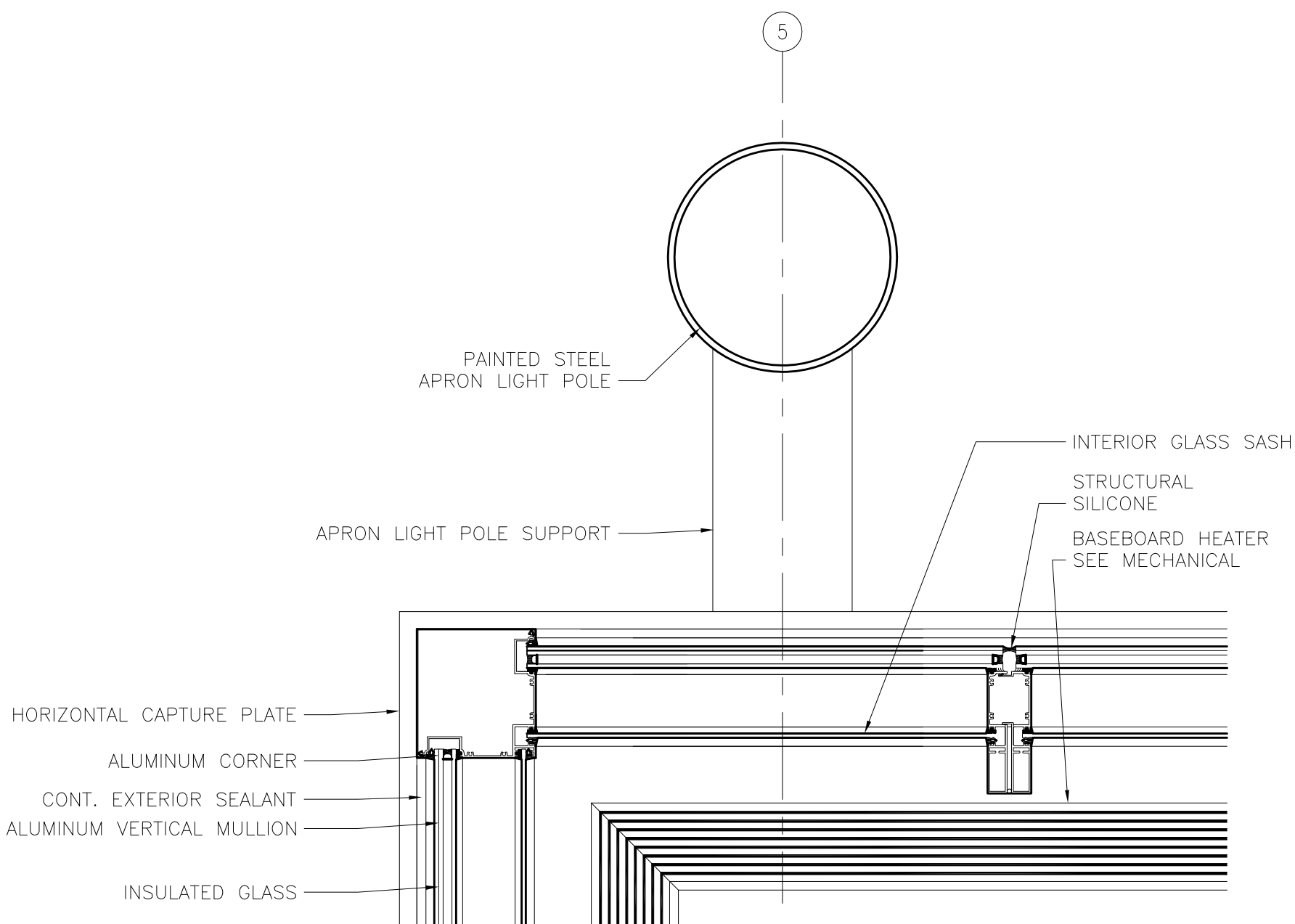
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LEVEL MECHANICAL SCREEN  
1 1/2" = 1'-0"



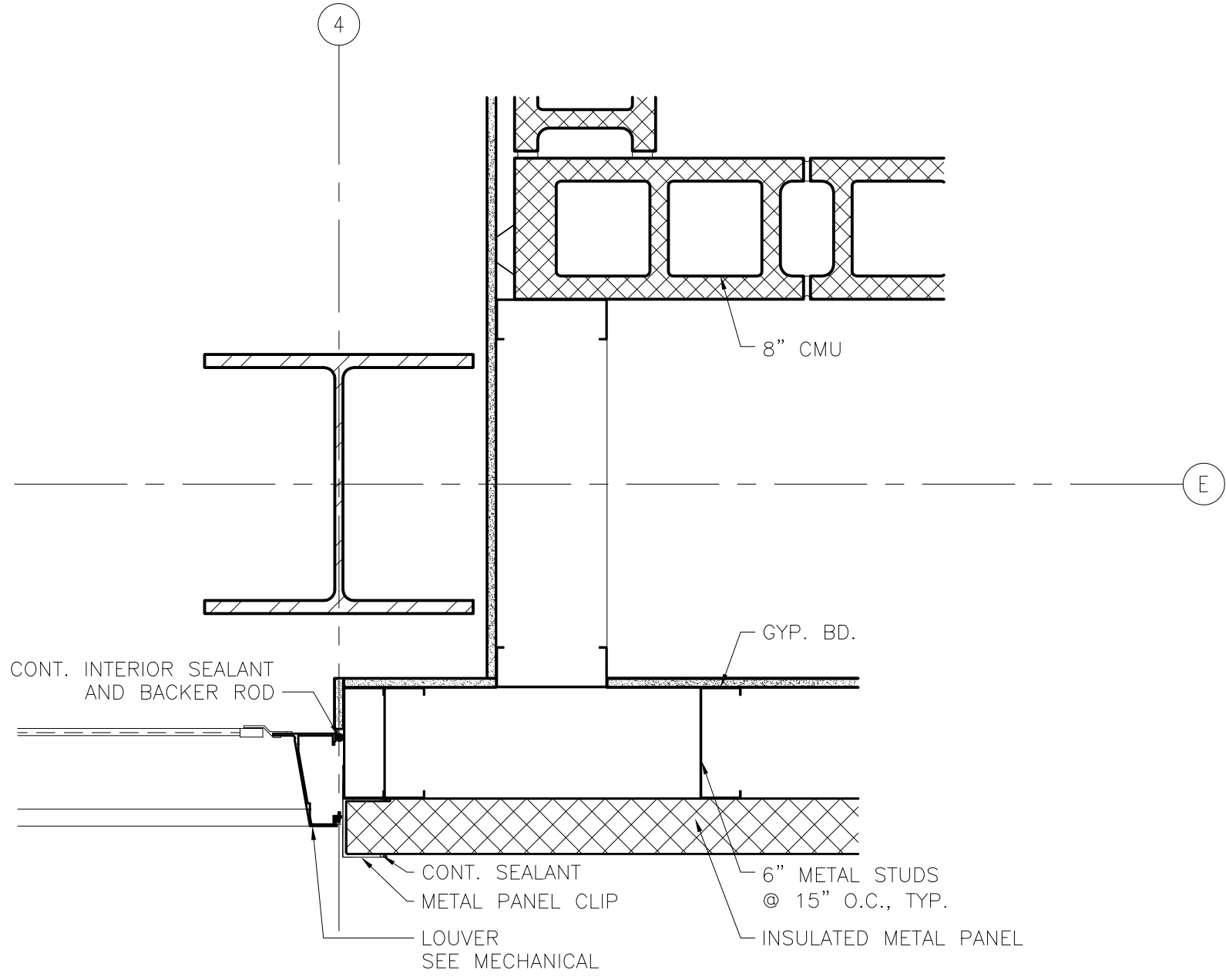
5 PLAN DETAIL @ THIRD  
LEVEL MECHANICAL SCREEN  
1 1/2" = 1'-0"



1 PLAN DETAIL @ THIRD LEVEL  
1 1/2" = 1'-0"



2 PLAN DETAIL @ THIRD LEVEL  
1 1/2" = 1'-0"



3 PLAN DETAIL@ THIRD LEVEL  
1 1/2" = 1'-0"

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AUTHORITY**

**DULUTH  
INTERNATIONAL  
AIRPORT  
DULUTH, MN**

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TERMINAL**

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REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**

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SHEET TITLE  
**PLAN DETAILS**

SHEET NUMBER  
**A512**

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NEW PASSENGER  
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Structural Engineers:  
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Landscaping Consultants:  
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REVISIONS

NO.	DESCRIPTION	DATE

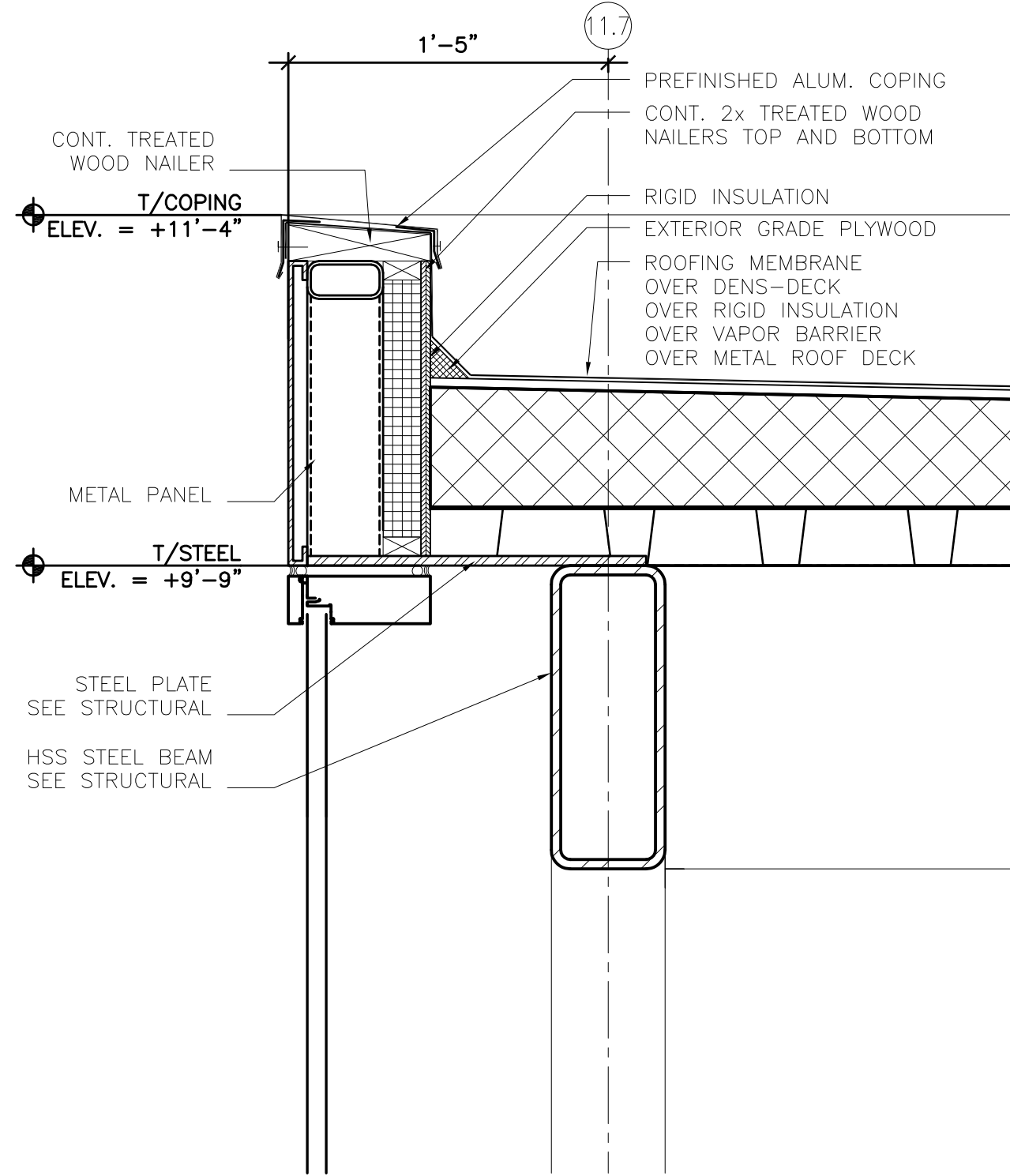
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
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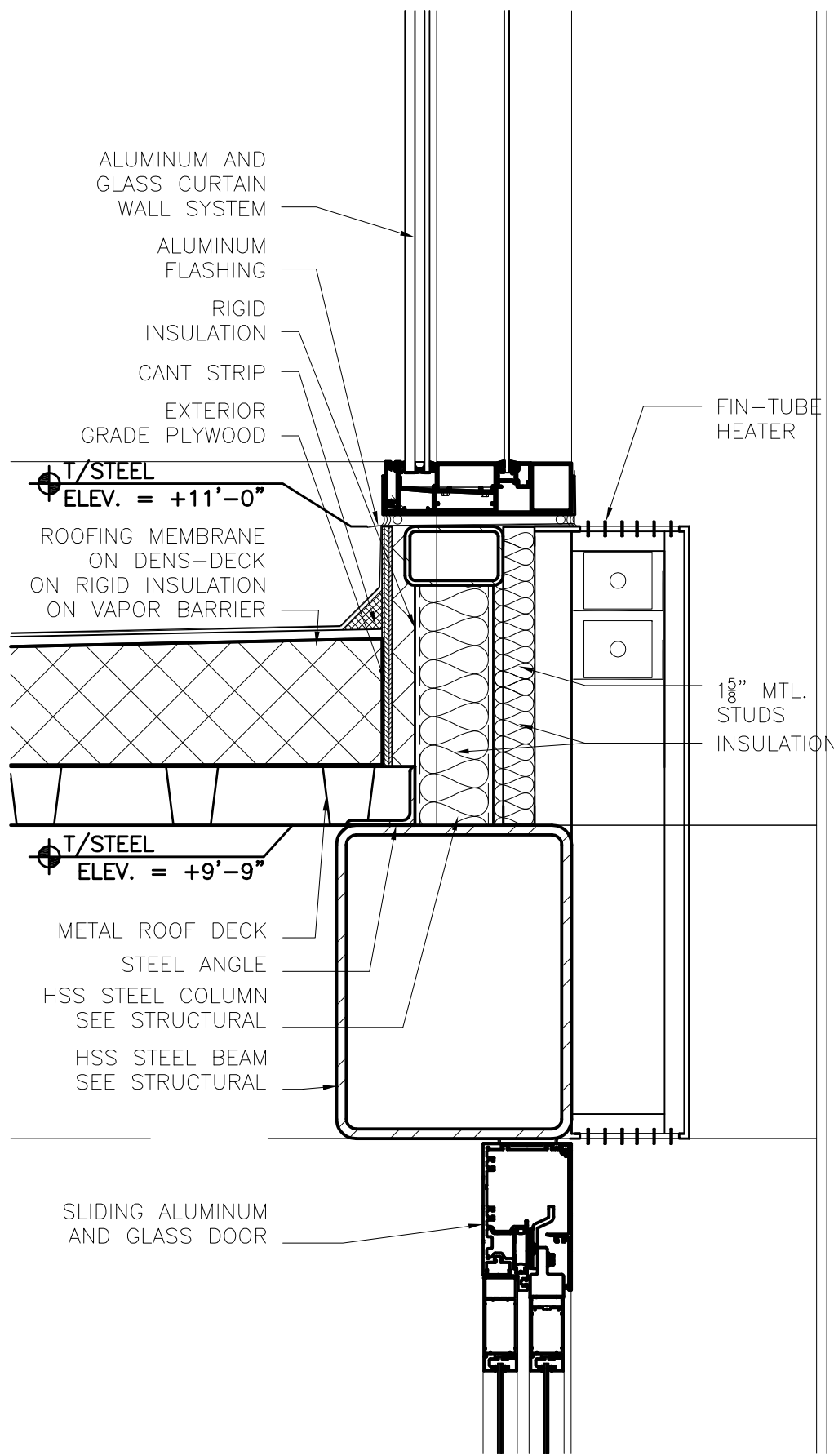
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SECTION DETAILS

SHEET NUMBER  
A520

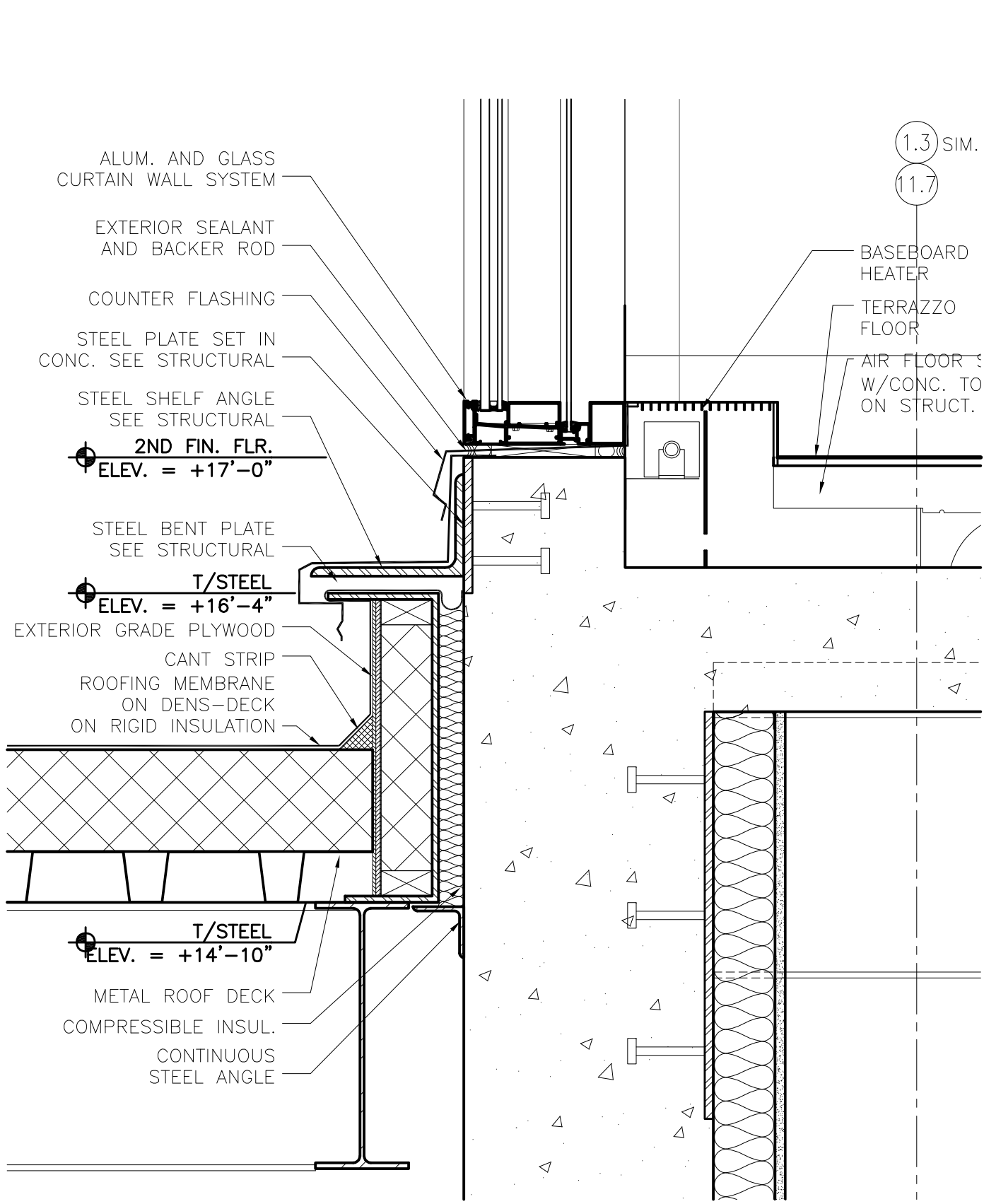
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CONSTRUCTION



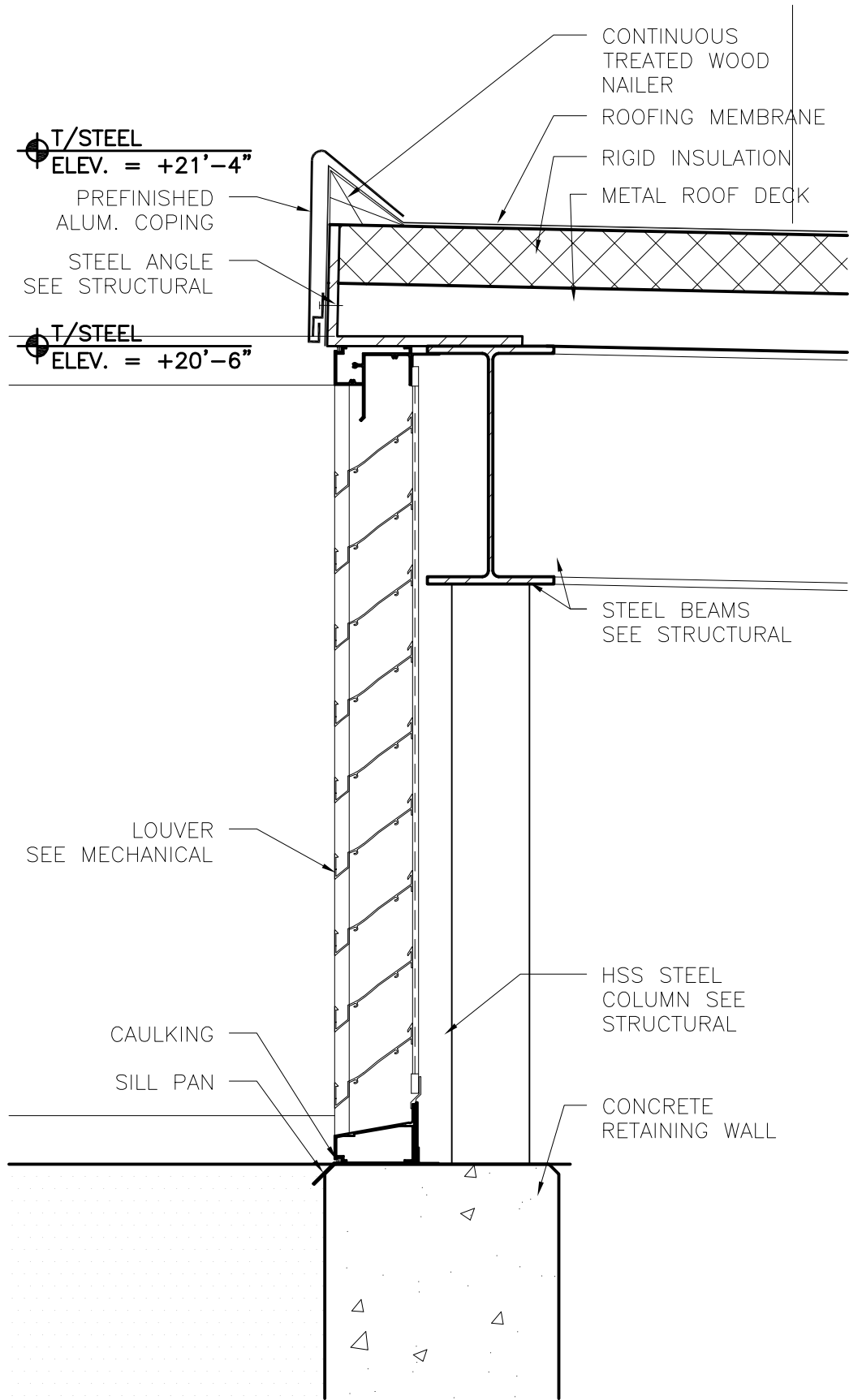
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1 1/2" = 1'-0"



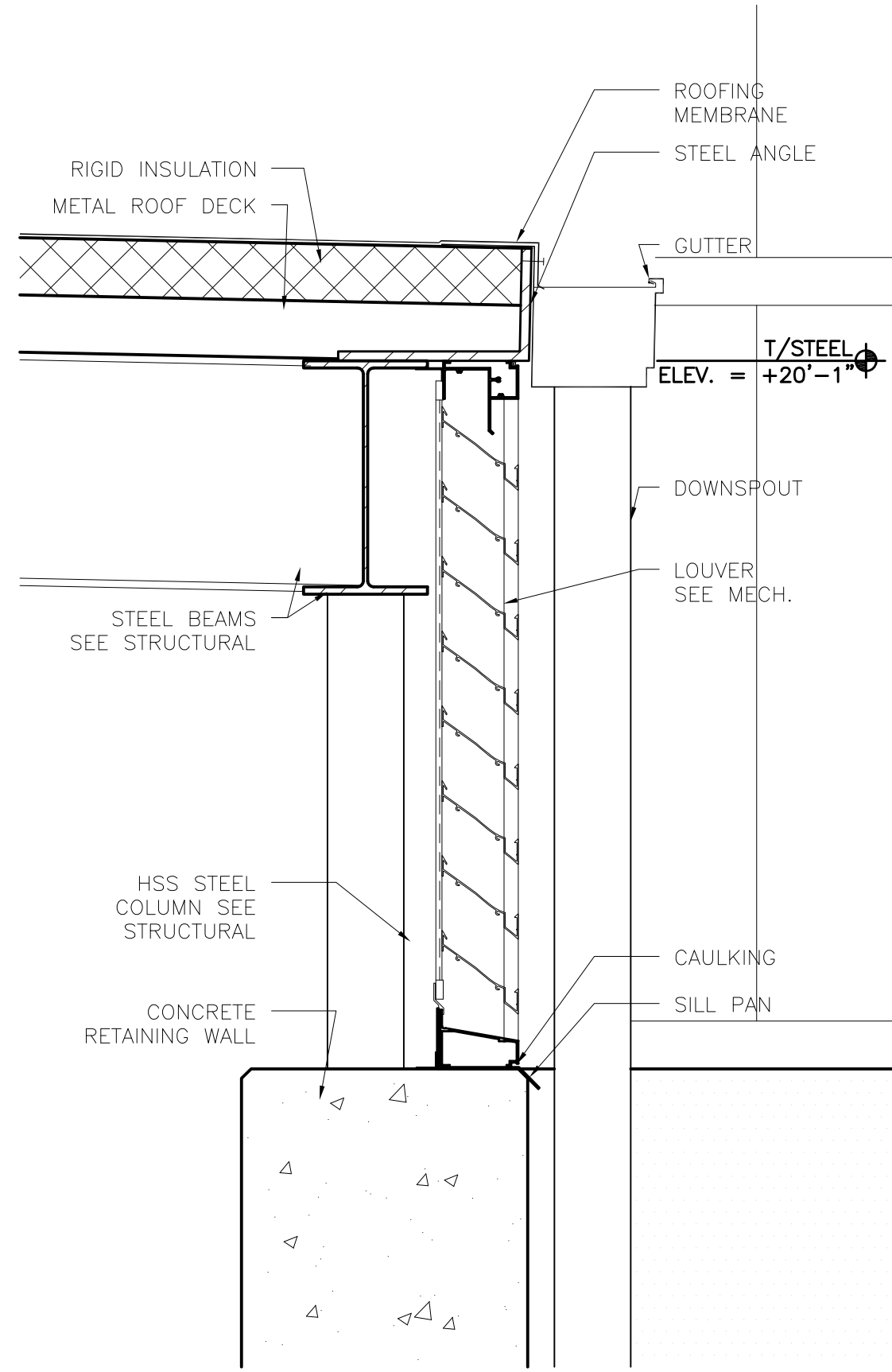
1 SECTION DETAIL @ VESTIBULE  
1 1/2" = 1'-0"



5 SECTION DETAIL @ TUG RAMP  
1 1/2" = 1'-0"



4 SECTION DETAIL @ TUG RAMP  
1 1/2" = 1'-0"



2 EXPANSION JOINT DETAIL  
@ TUG DRIVE & CONCOURSE  
1 1/2" = 1'-0"



**CONSULTANTS**

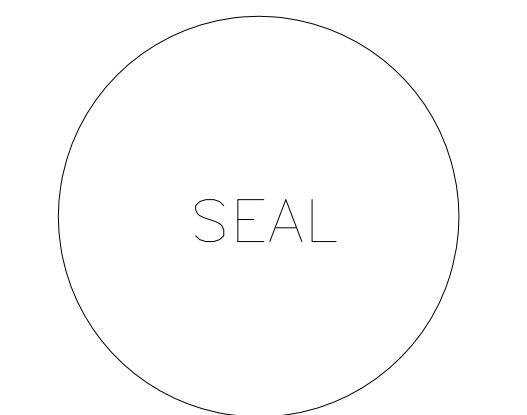
Interior Architects:  
**SJA ARCHITECTS**  
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**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10

REVIEWED BY: XX

DRAWN BY: XX

DESIGNED BY: XX

AEP PROJECT NUMBER

213-1882-091

XXX.DWG. REYNOLDS, SMITH AND HILLS INC.

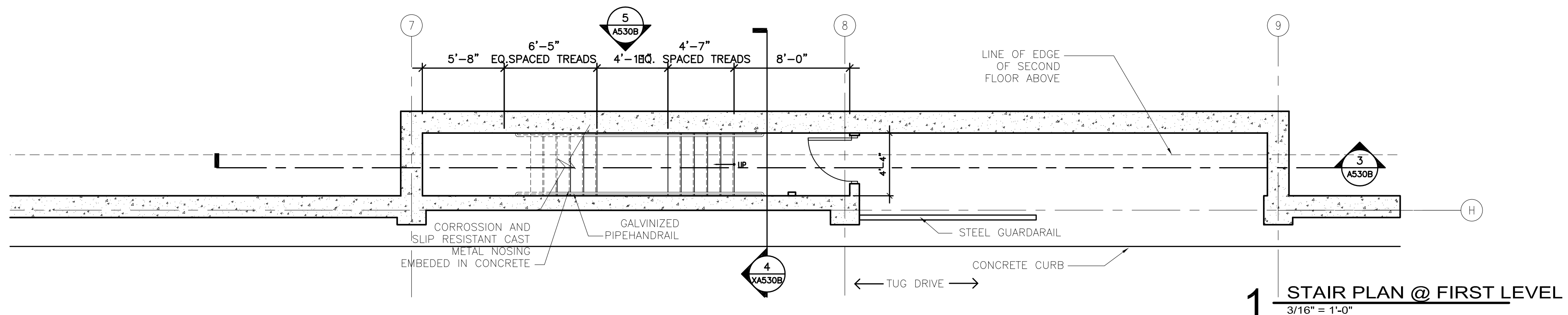
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**EXTERIOR SYSTEMS  
VERTICAL  
CIRCULATION**

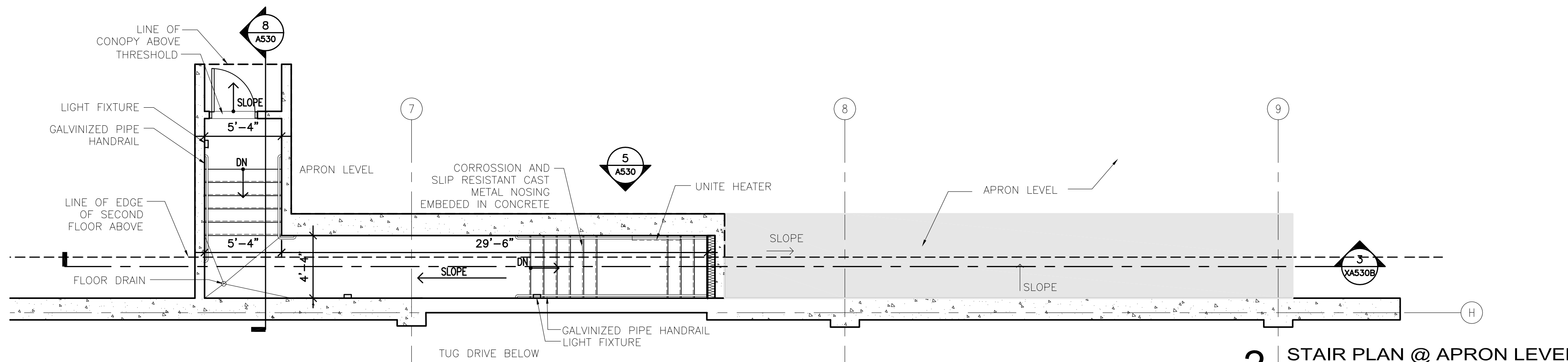
SHEET NUMBER

**A530**

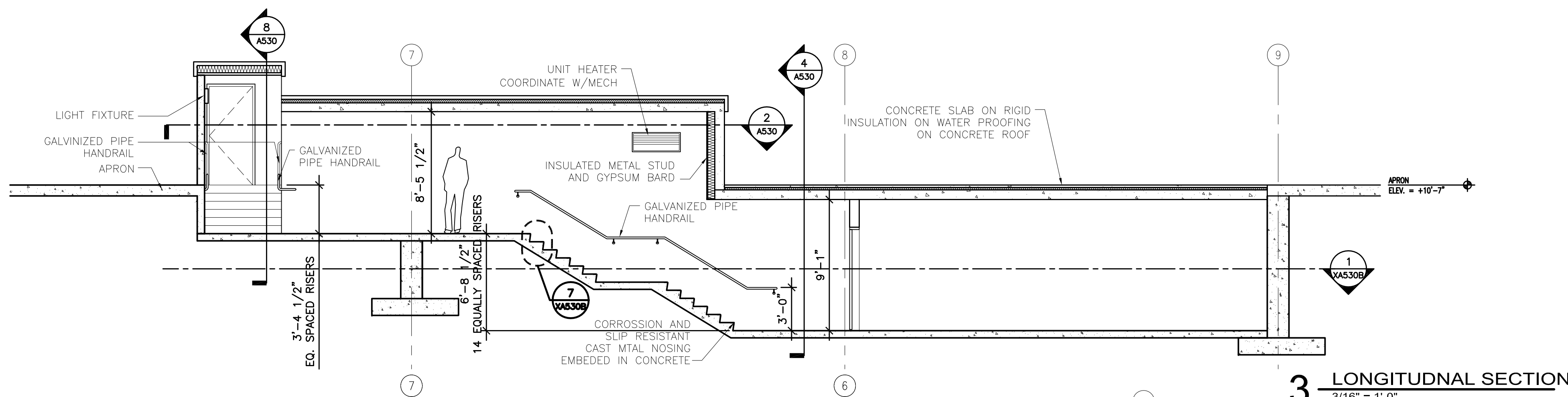
**90% NOT FOR  
CONSTRUCTION**



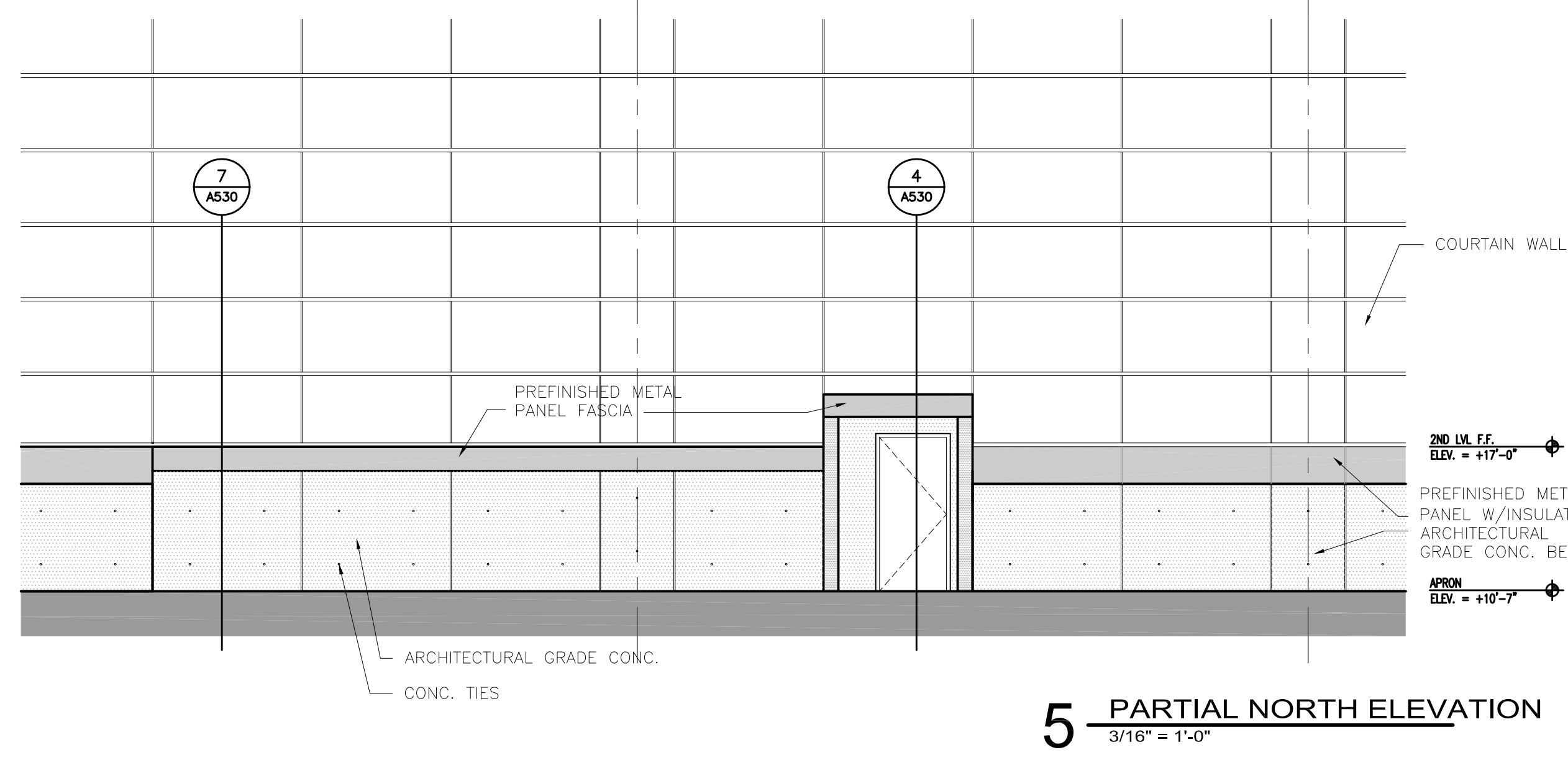
**1 STAIR PLAN @ FIRST LEVEL**  
3/16" = 1'-0"



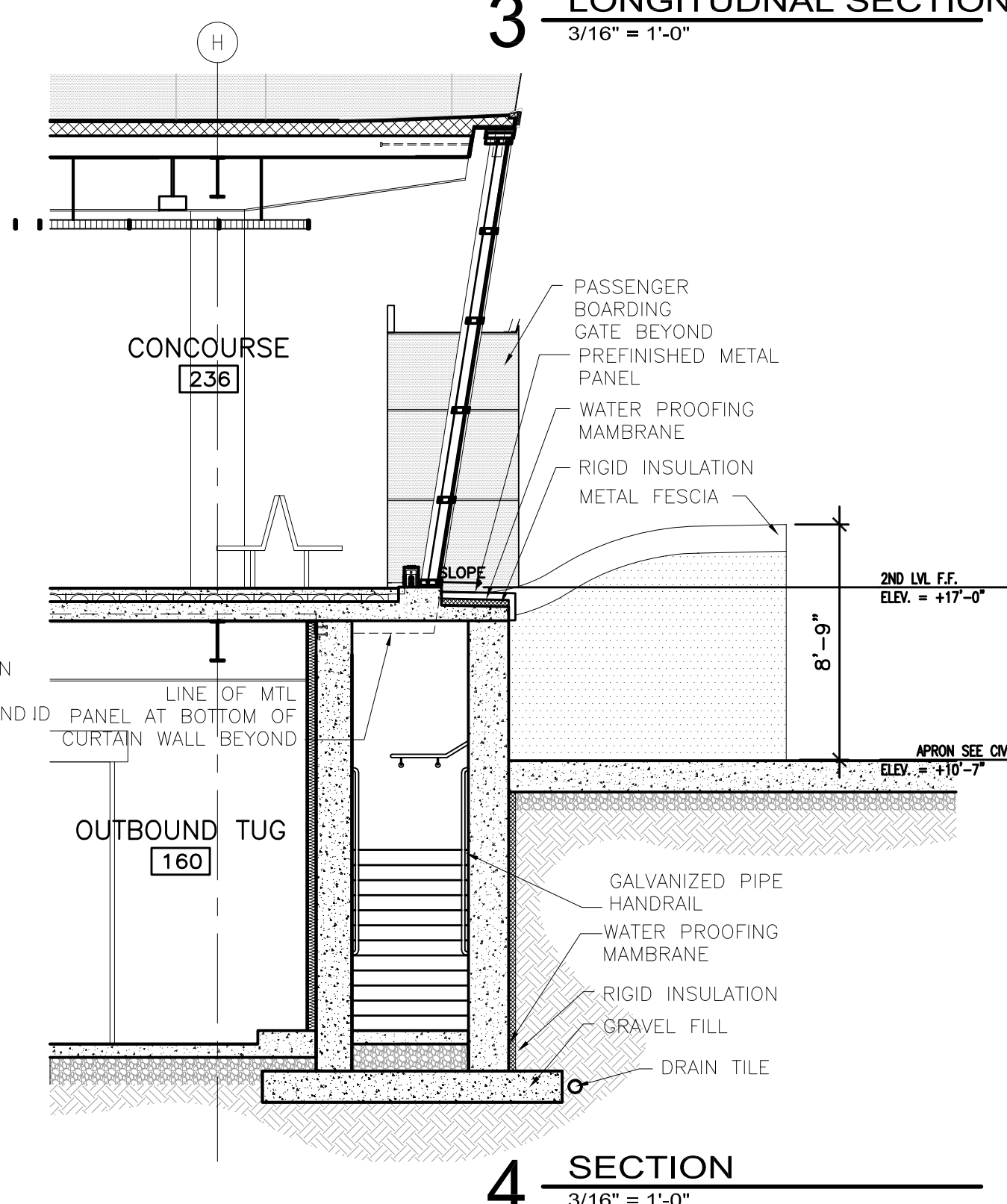
**2 STAIR PLAN @ APRON LEVEL**  
3/16" = 1'-0"



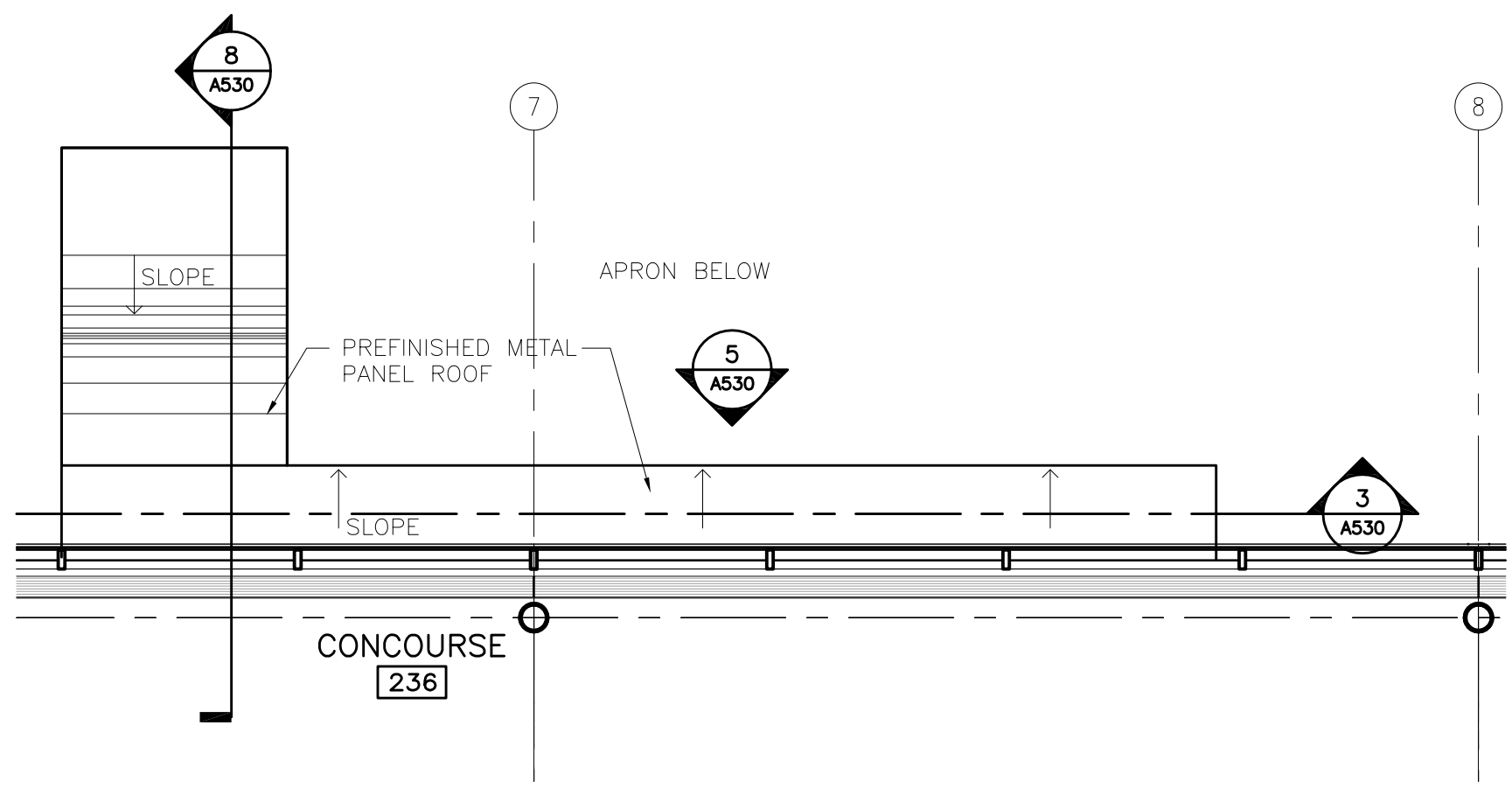
**3 LONGITUDINAL SECTION**  
3/16" = 1'-0"



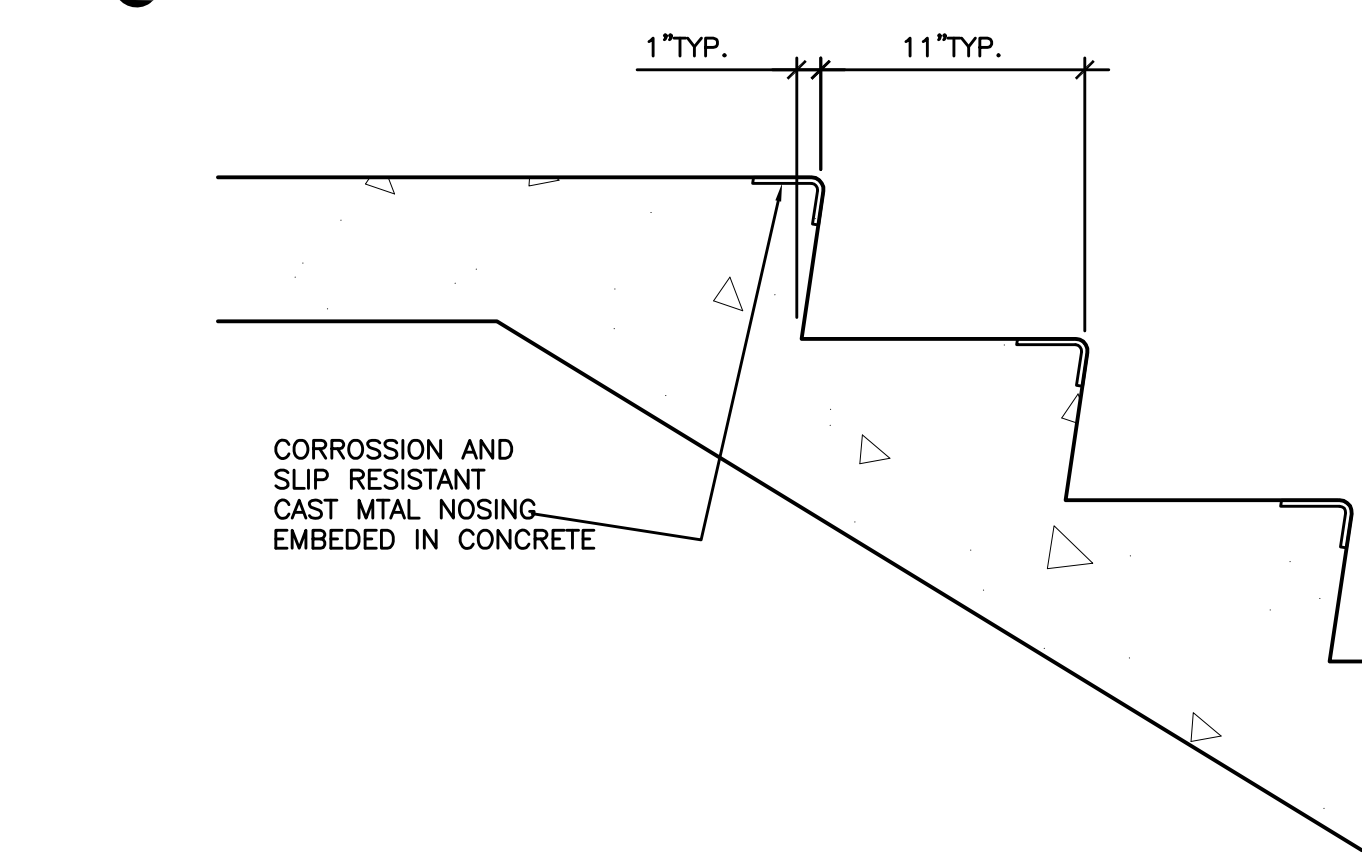
**5 PARTIAL NORTH ELEVATION**  
3/16" = 1'-0"



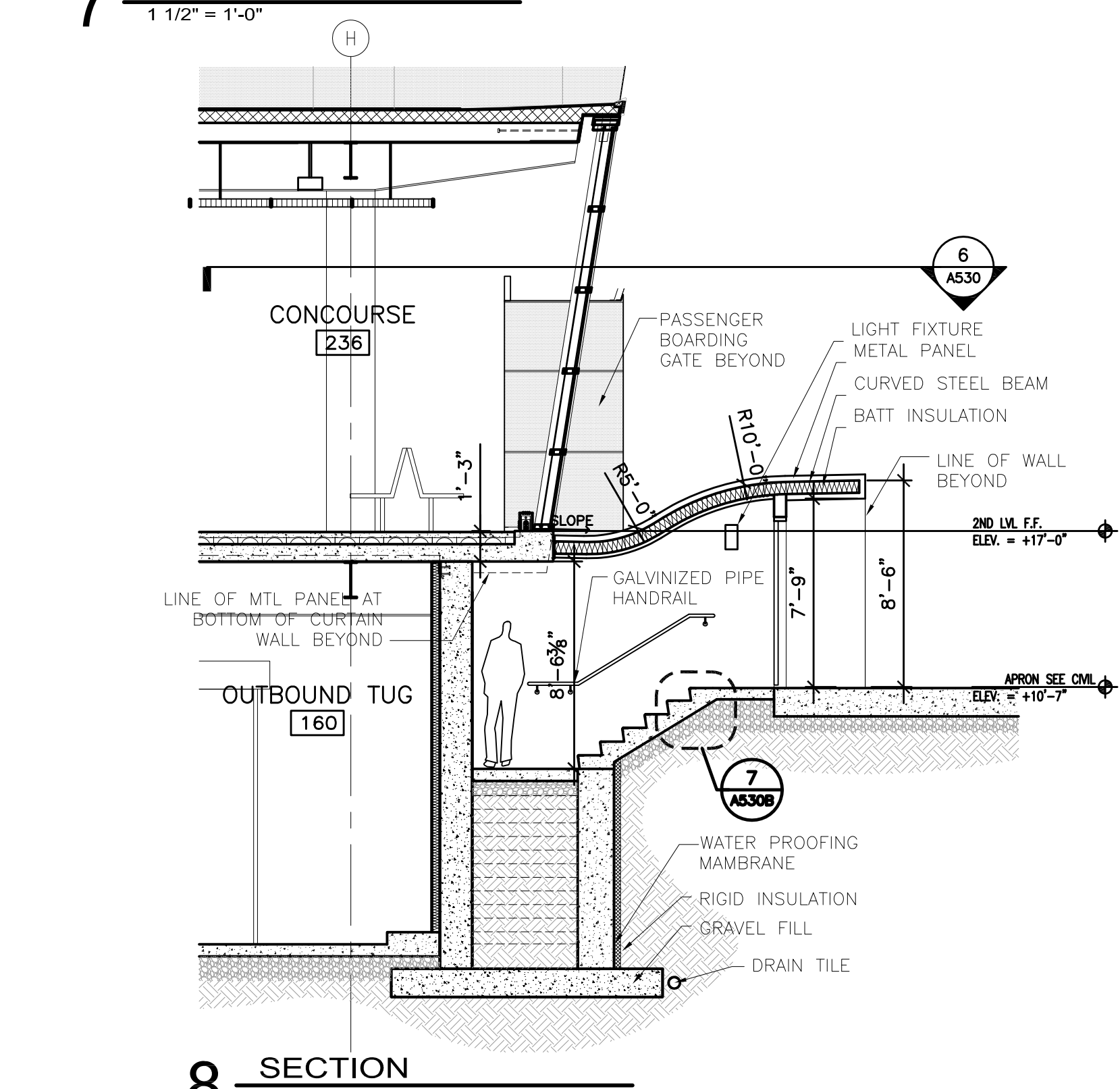
**4 SECTION**  
3/16" = 1'-0"



**6 SECOND LEVEL PARTIAL FLOOR PLAN AND STAIR ROOF PLAN**  
3/16" = 1'-0"

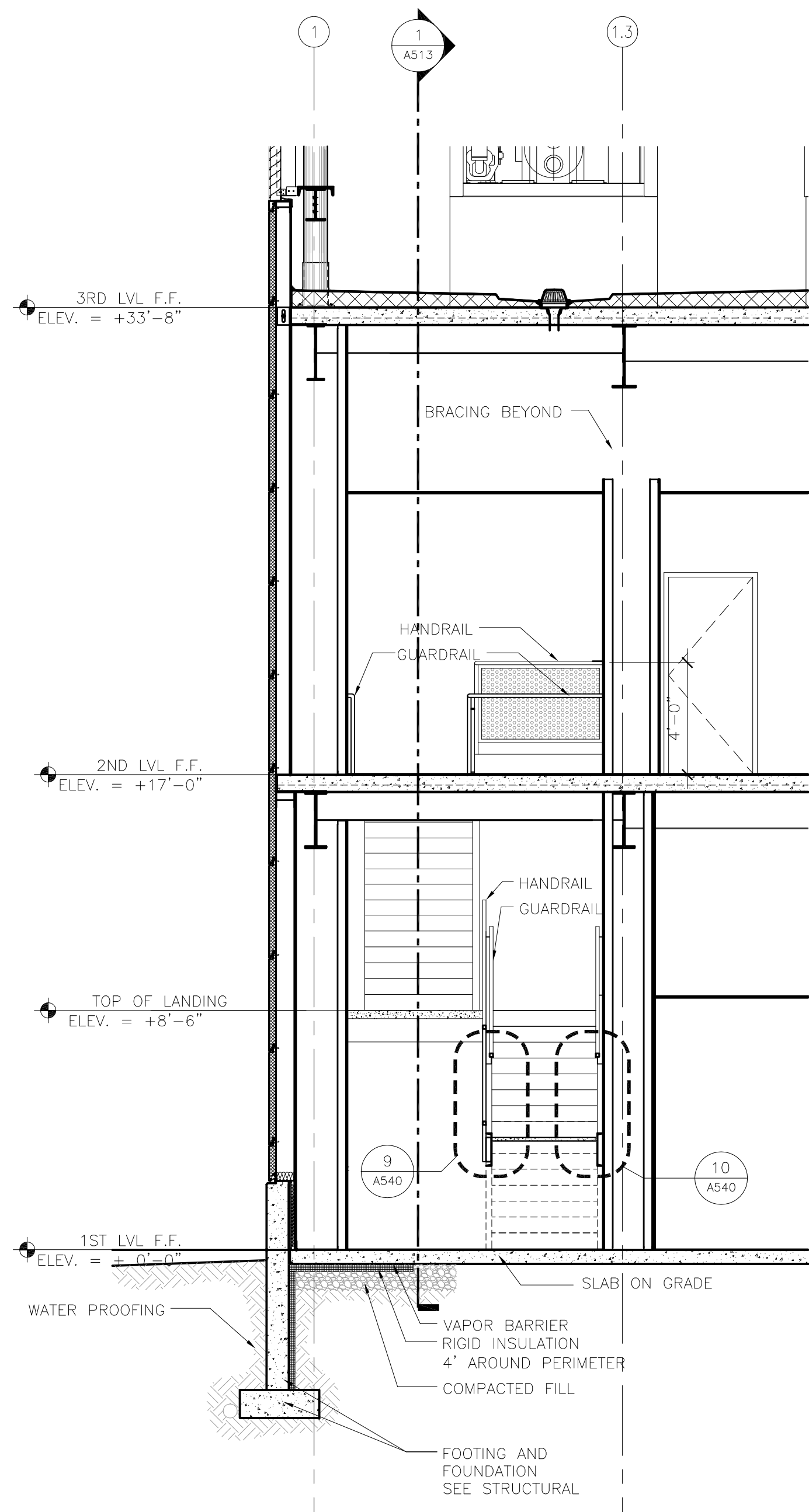


**7 STAIR SECTION DETAIL**  
1 1/2" = 1'-0"

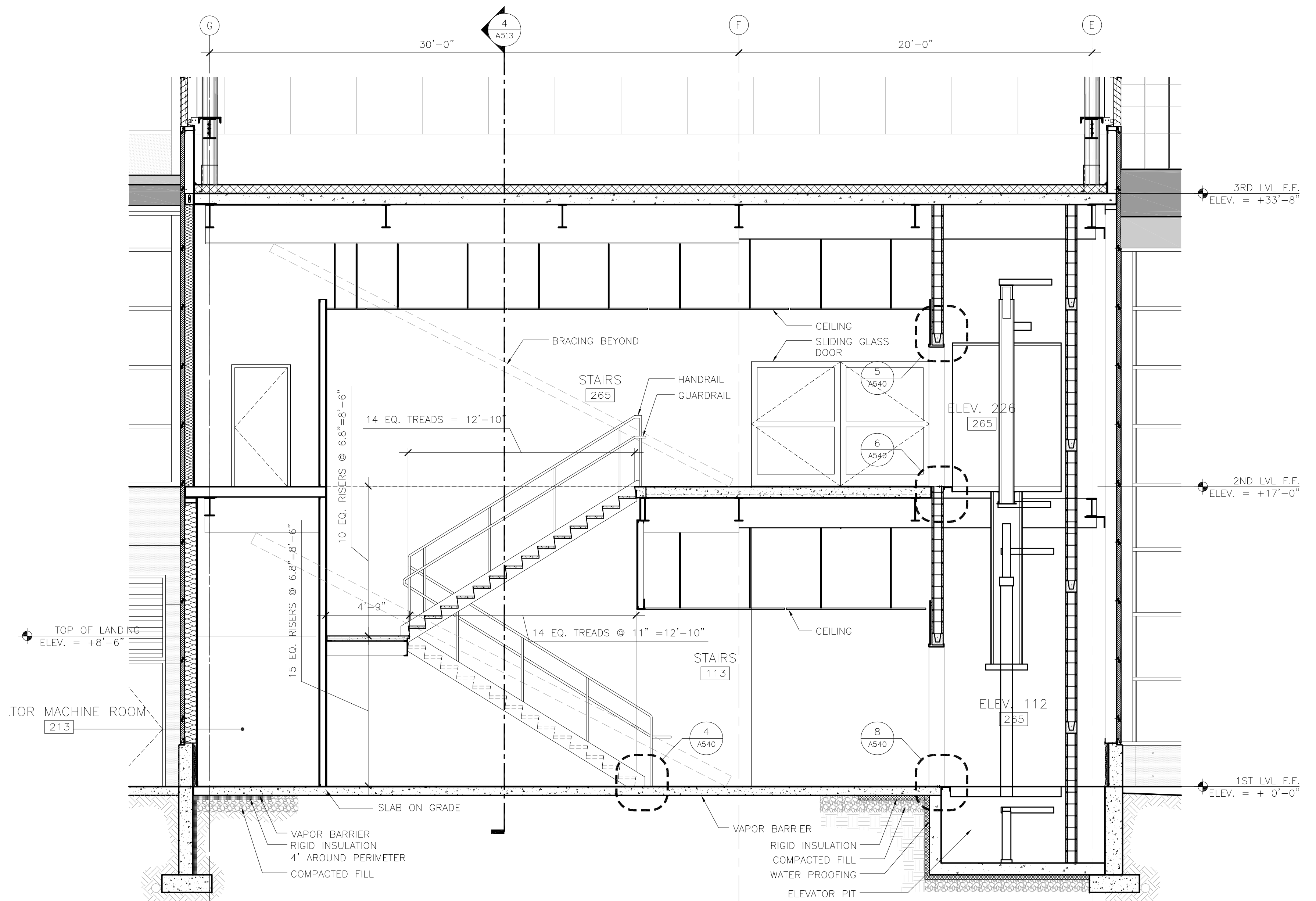


**8 SECTION**  
3/16" = 1'-0"

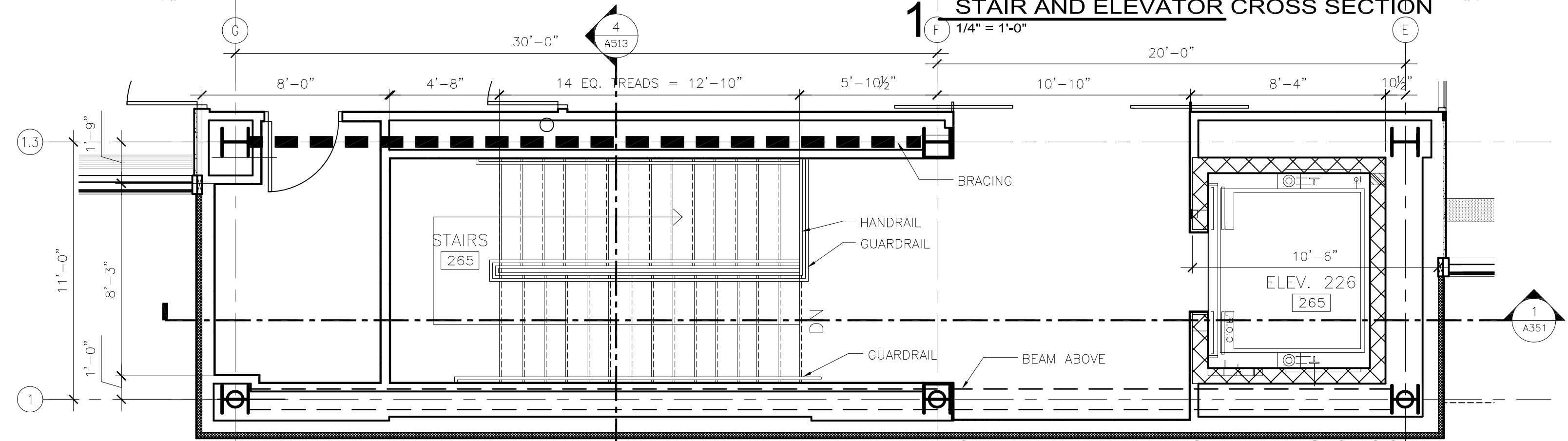




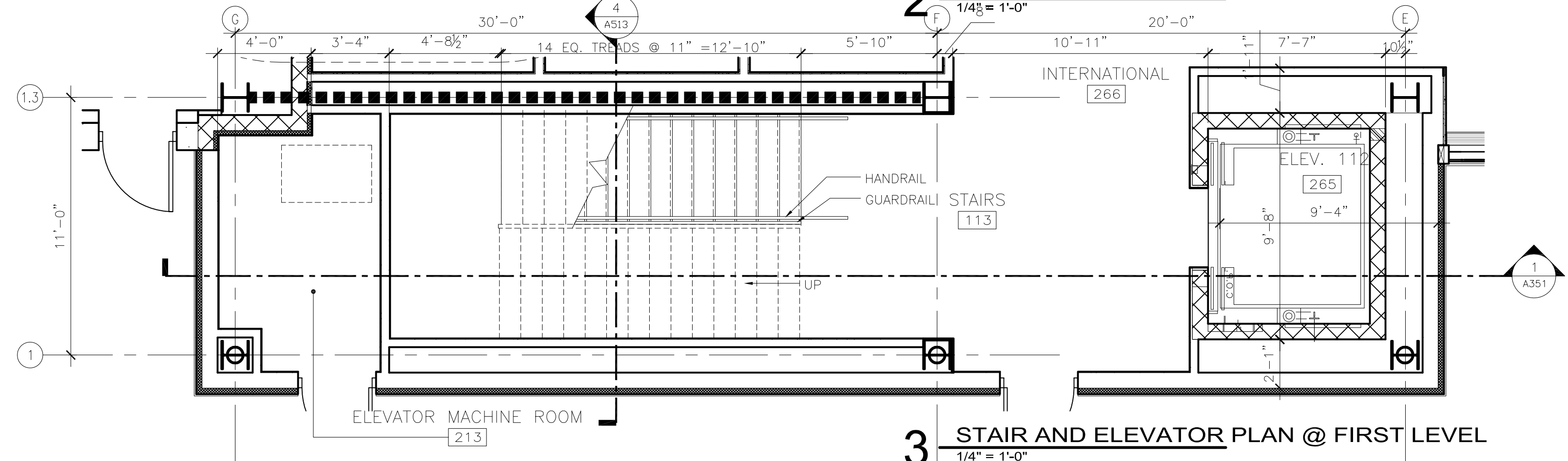
4 STAIR LONGITUDNAL SECTION  
1/4" = 1'-0"



1 STAIR AND ELEVATOR CROSS SECTION  
1/4" = 1'-0"



2 STAIR AND ELEVATOR PLAN @ SECOND LEVEL  
1/4" = 1'-0"



3 STAIR AND ELEVATOR PLAN @ FIRST LEVEL  
1/4" = 1'-0"

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DESIGNED BY: XX

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**213-1882-091**  
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**SHEET TITLE**  
**INTERIOR SYSTEMS  
VERTICAL  
CIRCULATION**

**SHEET NUMBER**

**A531**

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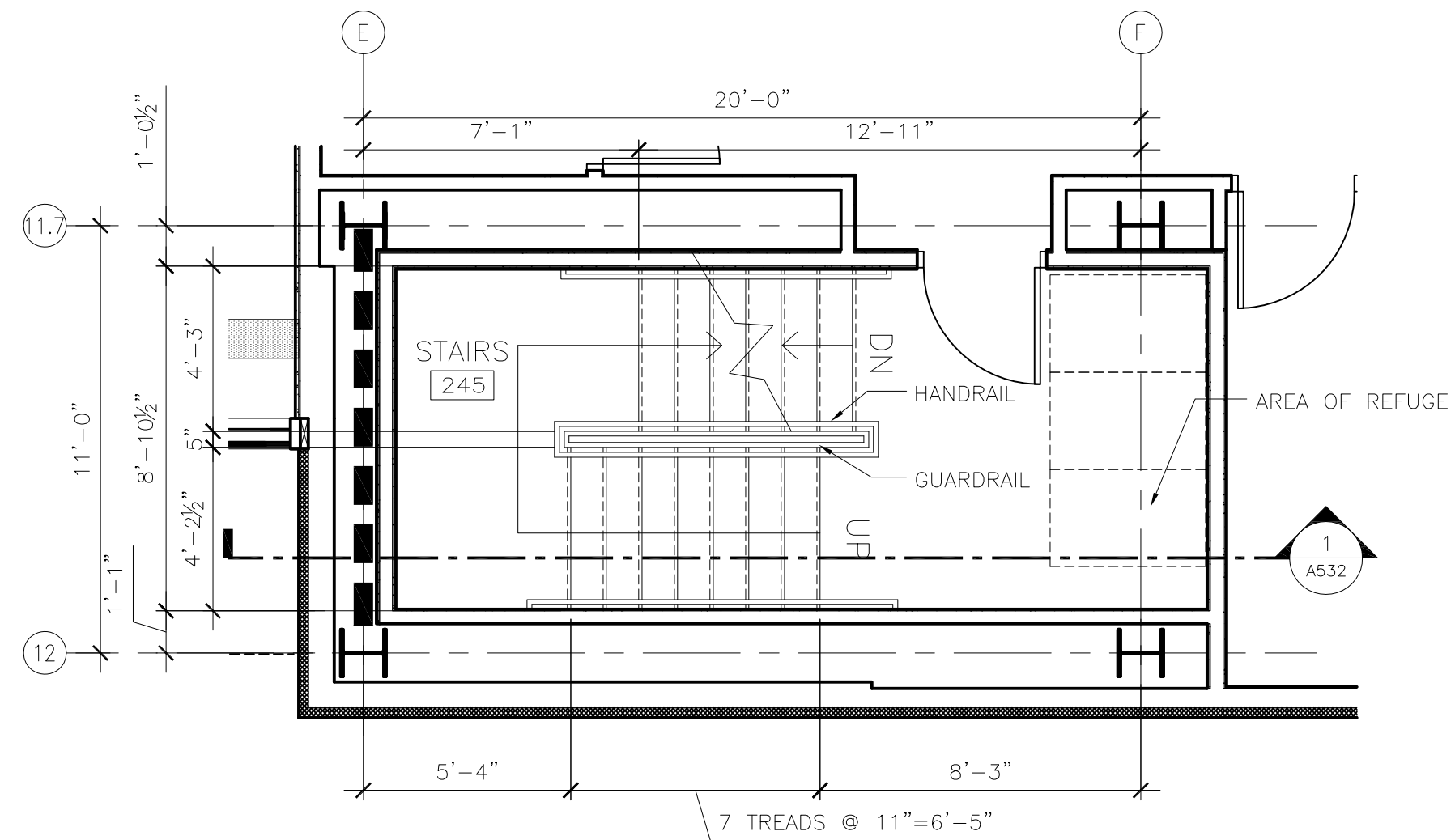
REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
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AEP PROJECT NUMBER  
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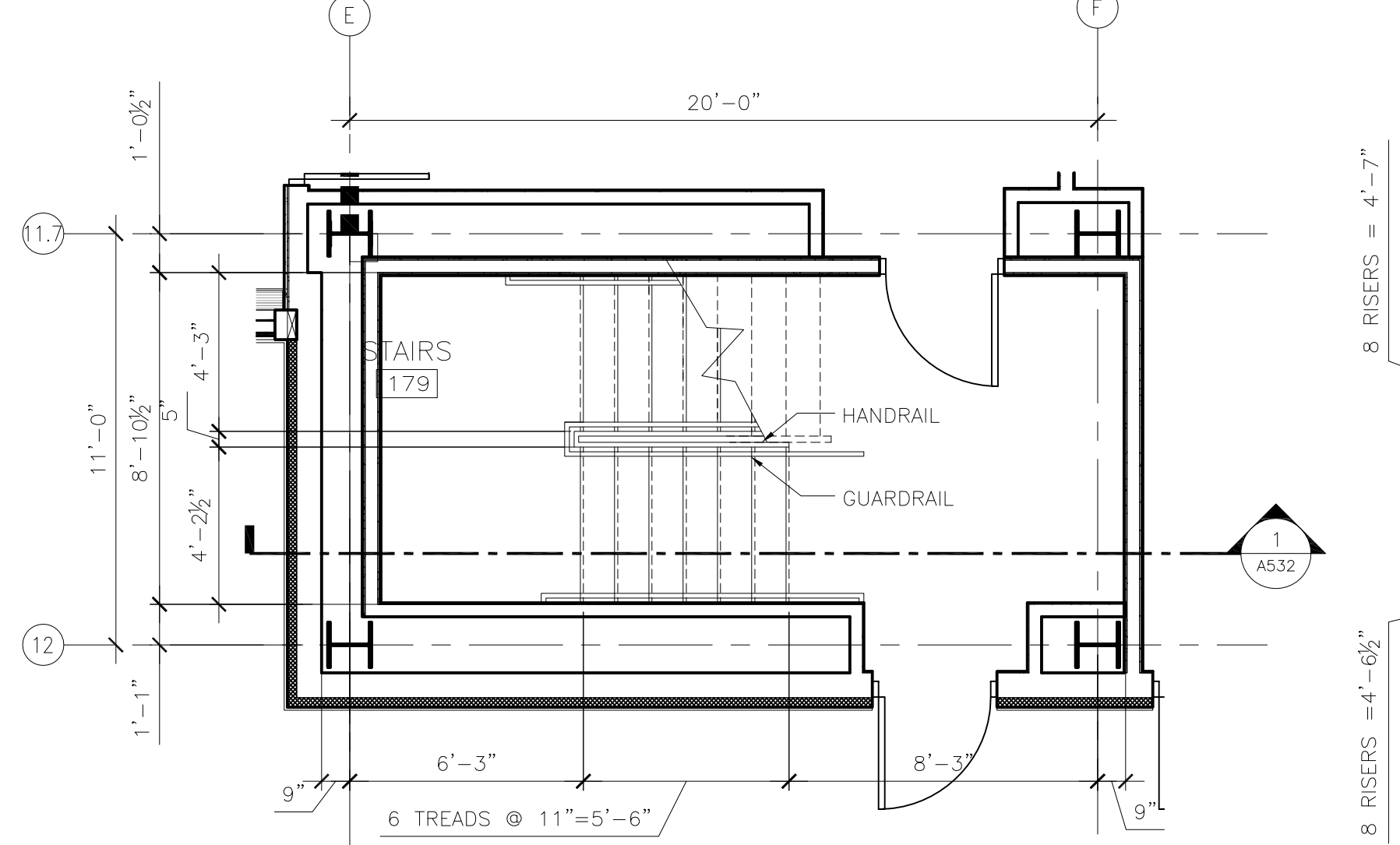
**SHEET TITLE**  
  
INTERIOR SYSTEMS  
VERTICAL  
CIRCULATION

**SHEET NUMBER**  
**A532**

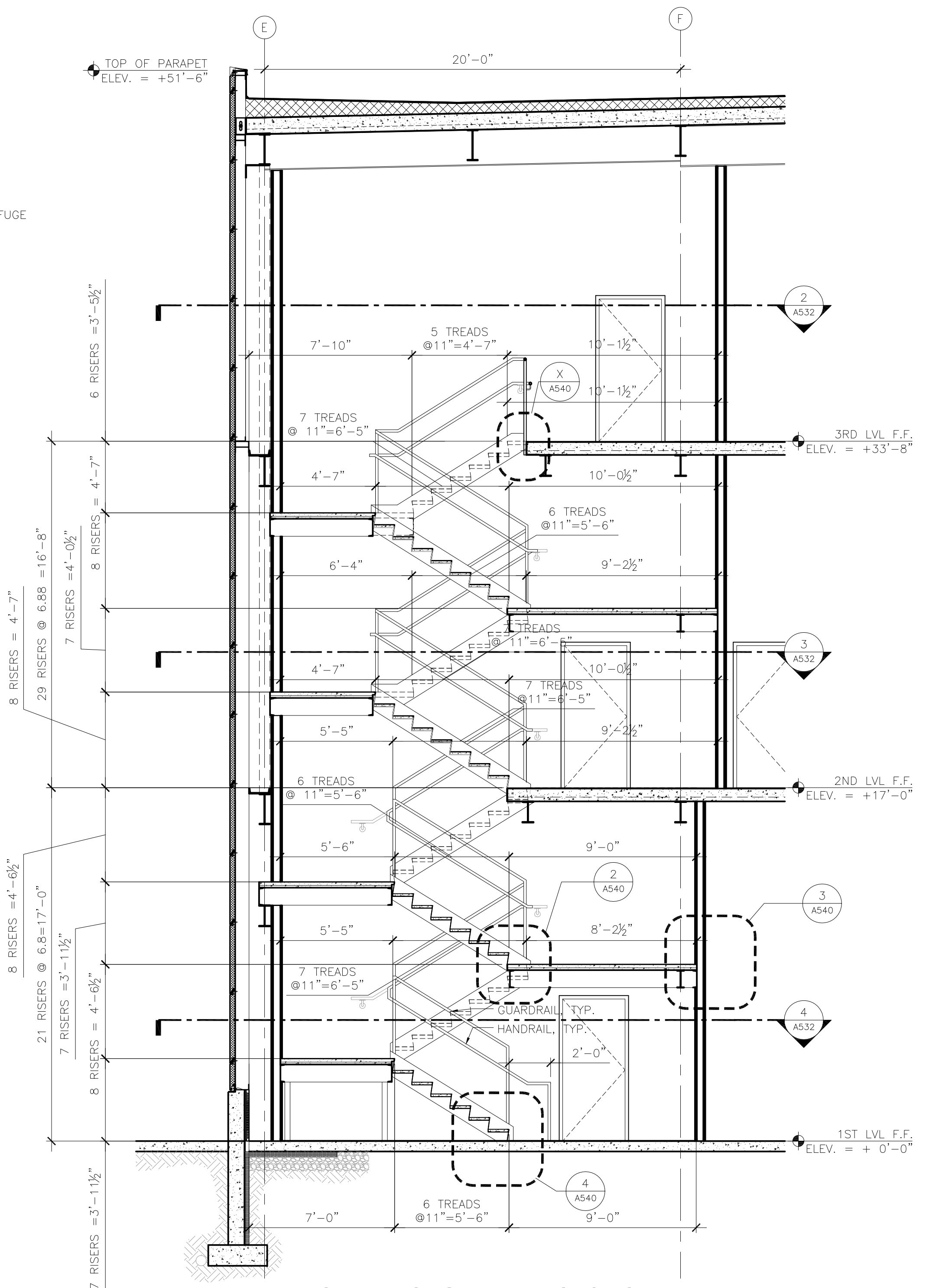
**90% NOT FOR  
CONSTRUCTION**



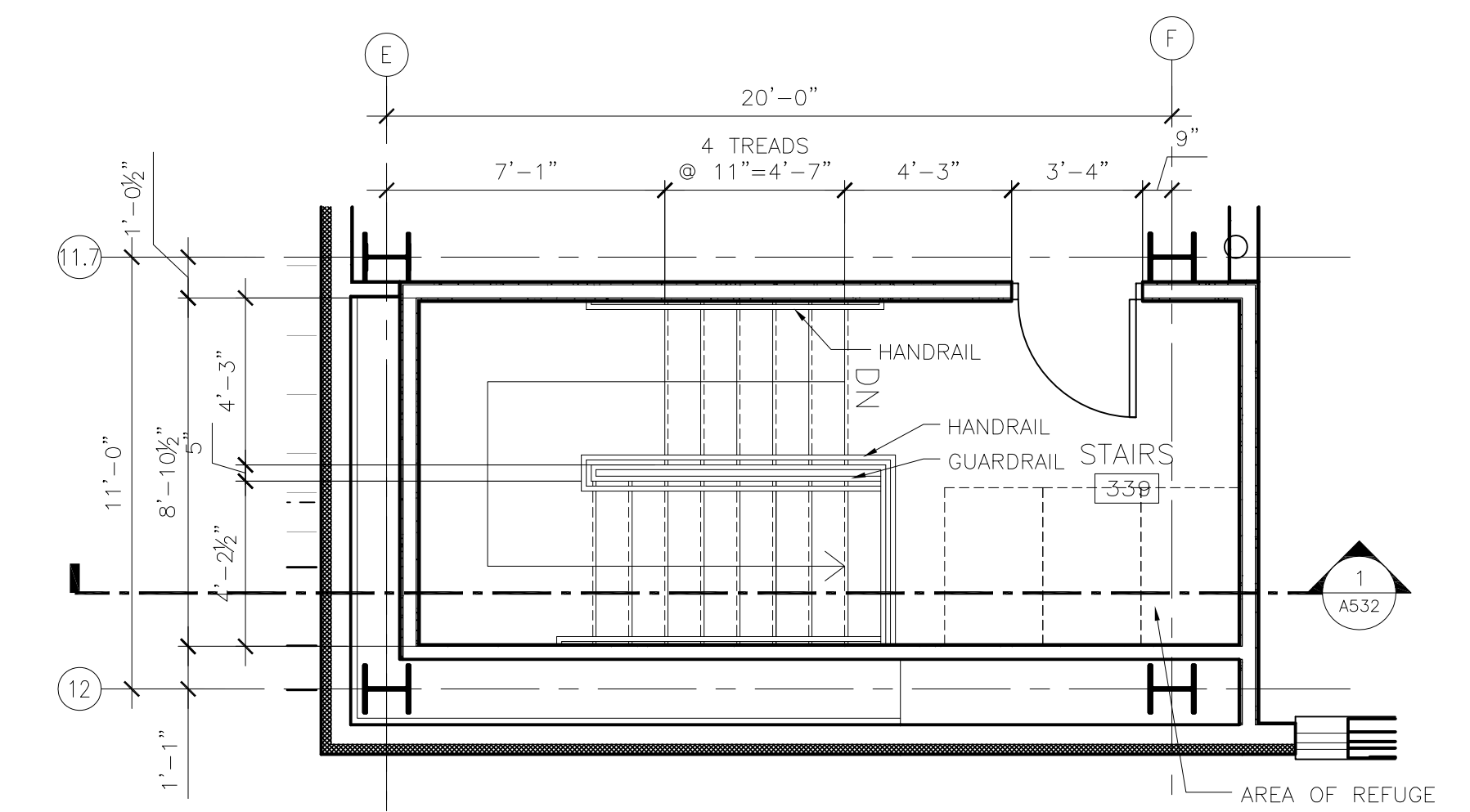
**3 STAIR PLAN @ SECOND LEVEL**  
1/4" = 1'-0"



**4 STAIR PLAN @ FIRST LEVEL**  
1/4" = 1'-0"

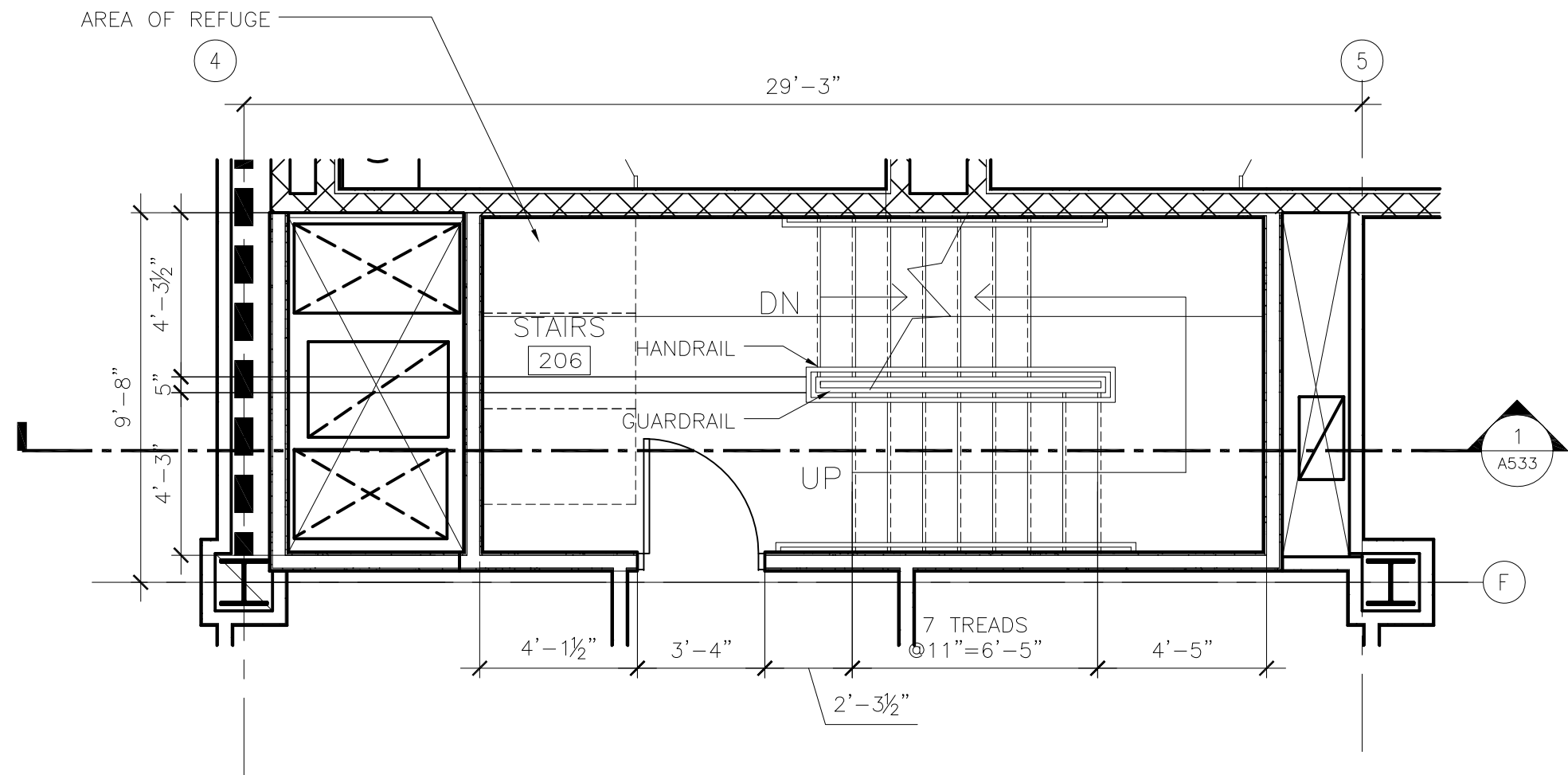


**1 STAIR LONGITUDNAL SECTION**  
1/4" = 1'-0"

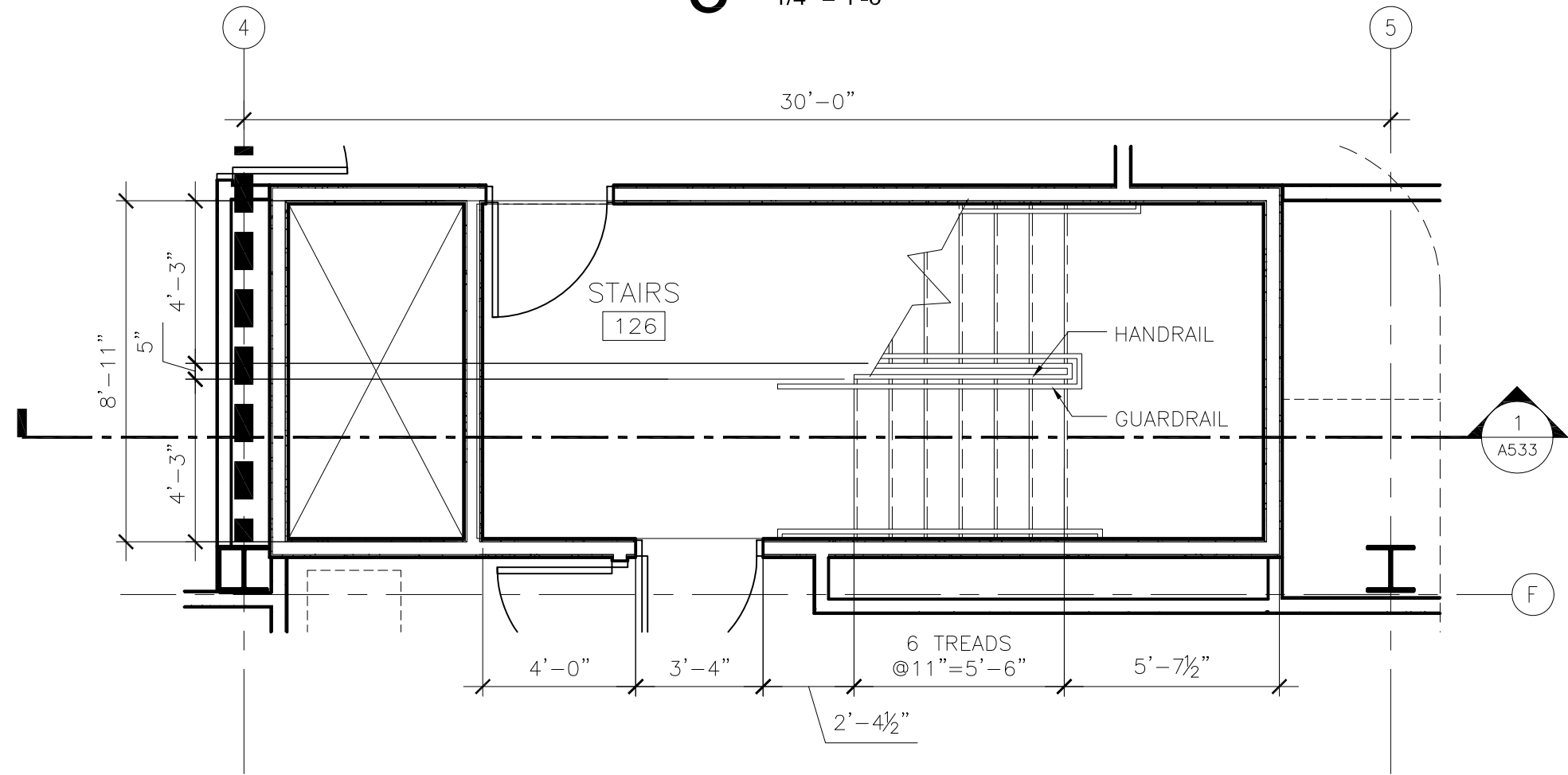


**2 STAIR PLAN @ THIRD LEVEL**  
1/4" = 1'-0"

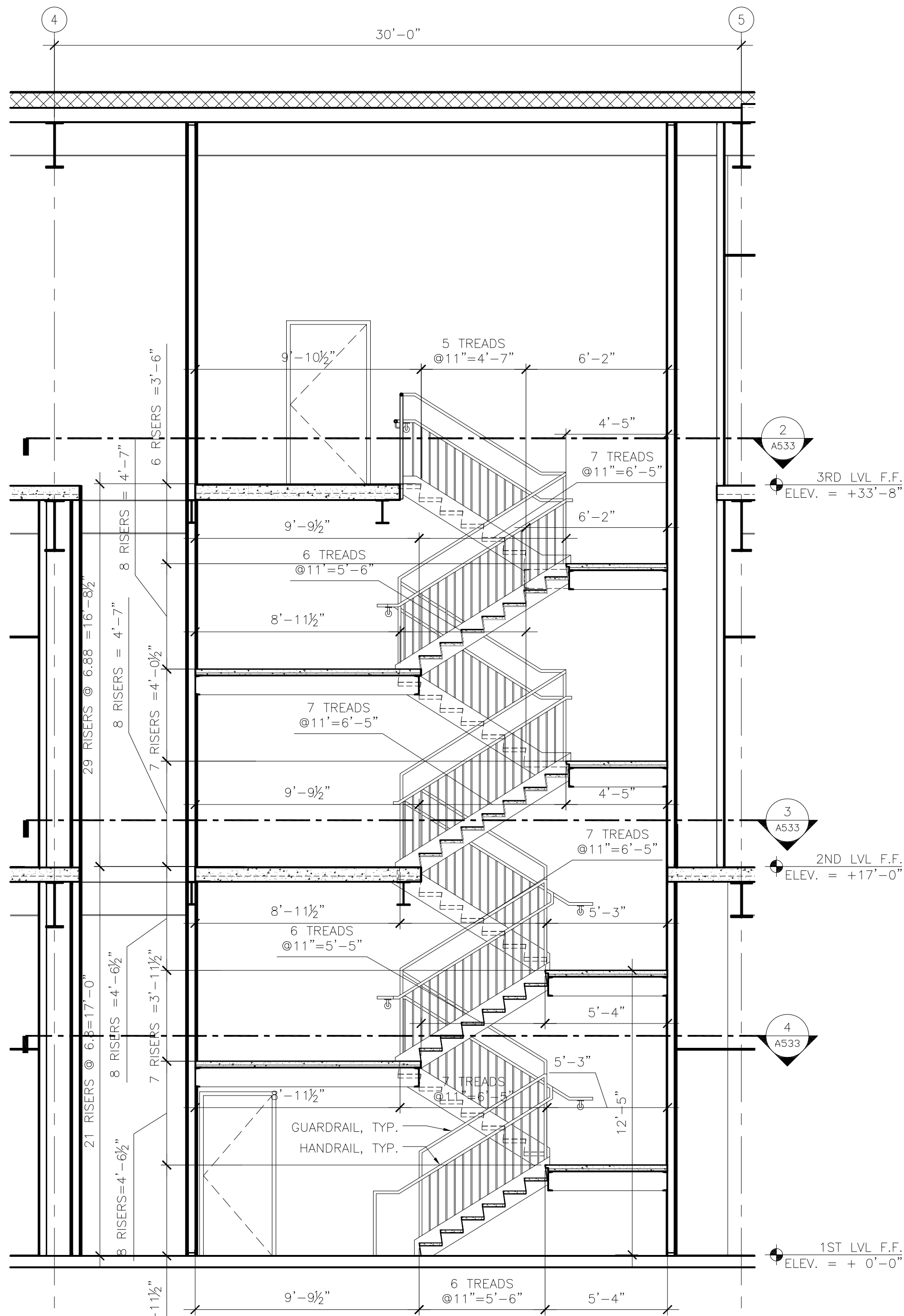




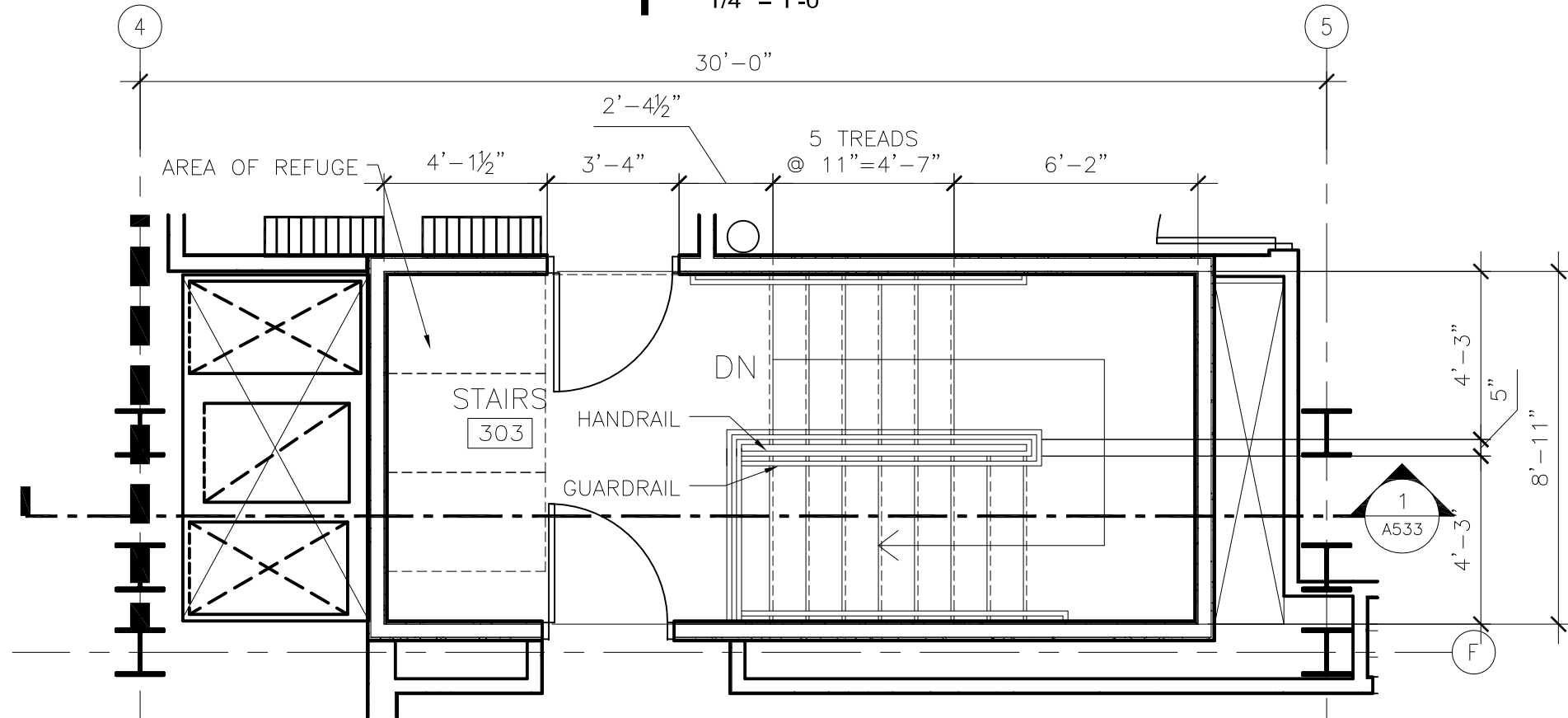
3 STAIR PLAN @ SECOND LEVEL  
1/4" = 1'-0"



4 STAIR PLAN @ FIRST LEVEL  
1/4" = 1'-0"



1 STAIR LONGITUDNAL SECTION  
1/4" = 1'-0"



2 STAIR PLAN @ THIRD LEVEL  
1/4" = 1'-0"

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SHEET TITLE

INTERIOR SYSTEMS  
VERTICAL  
CIRCULATION  
:

SHEET NUMBER

A533

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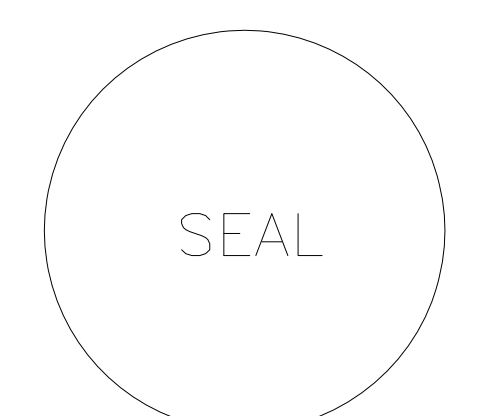
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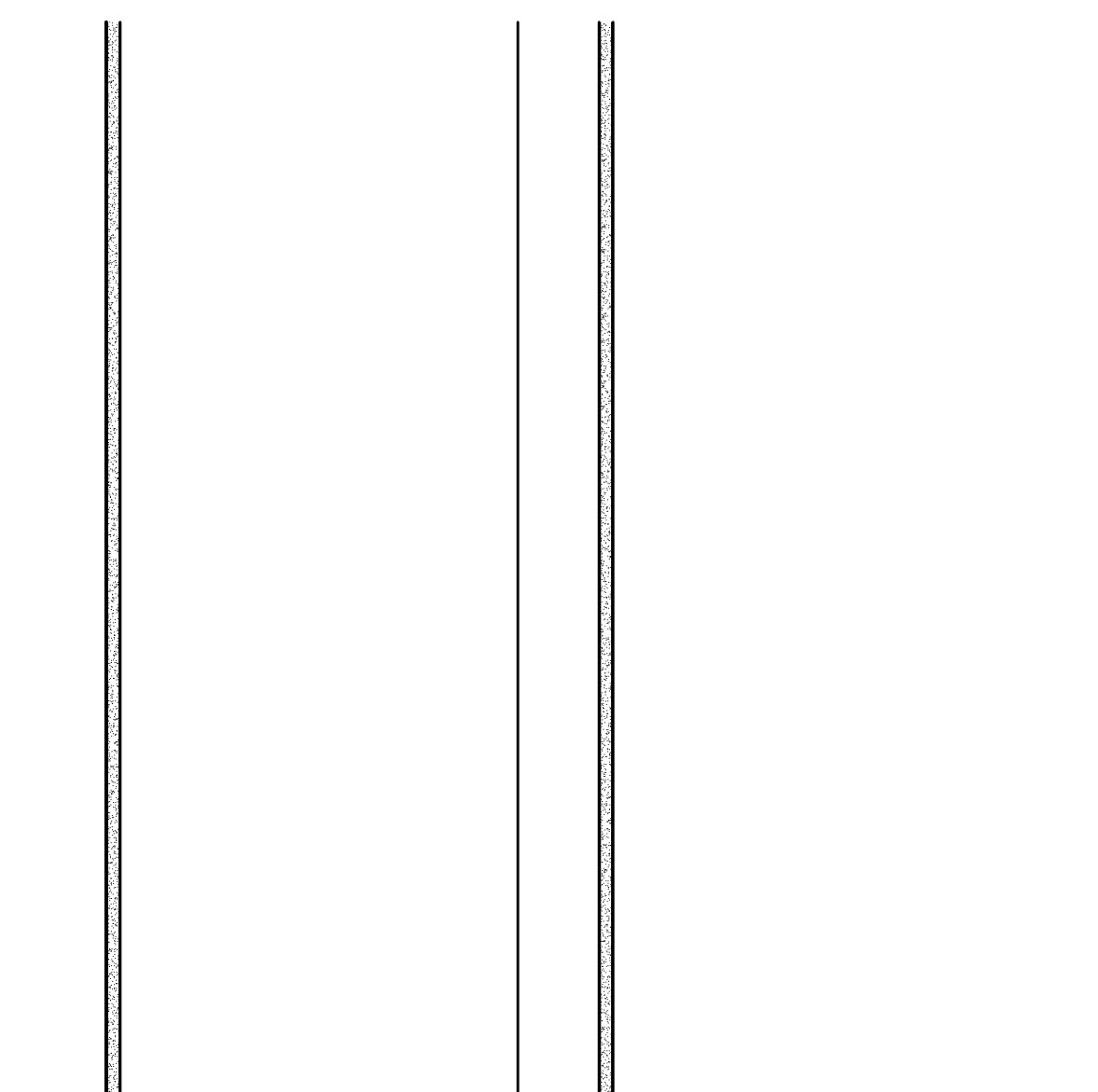
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## VERTICAL CIRCULATION DETAILS

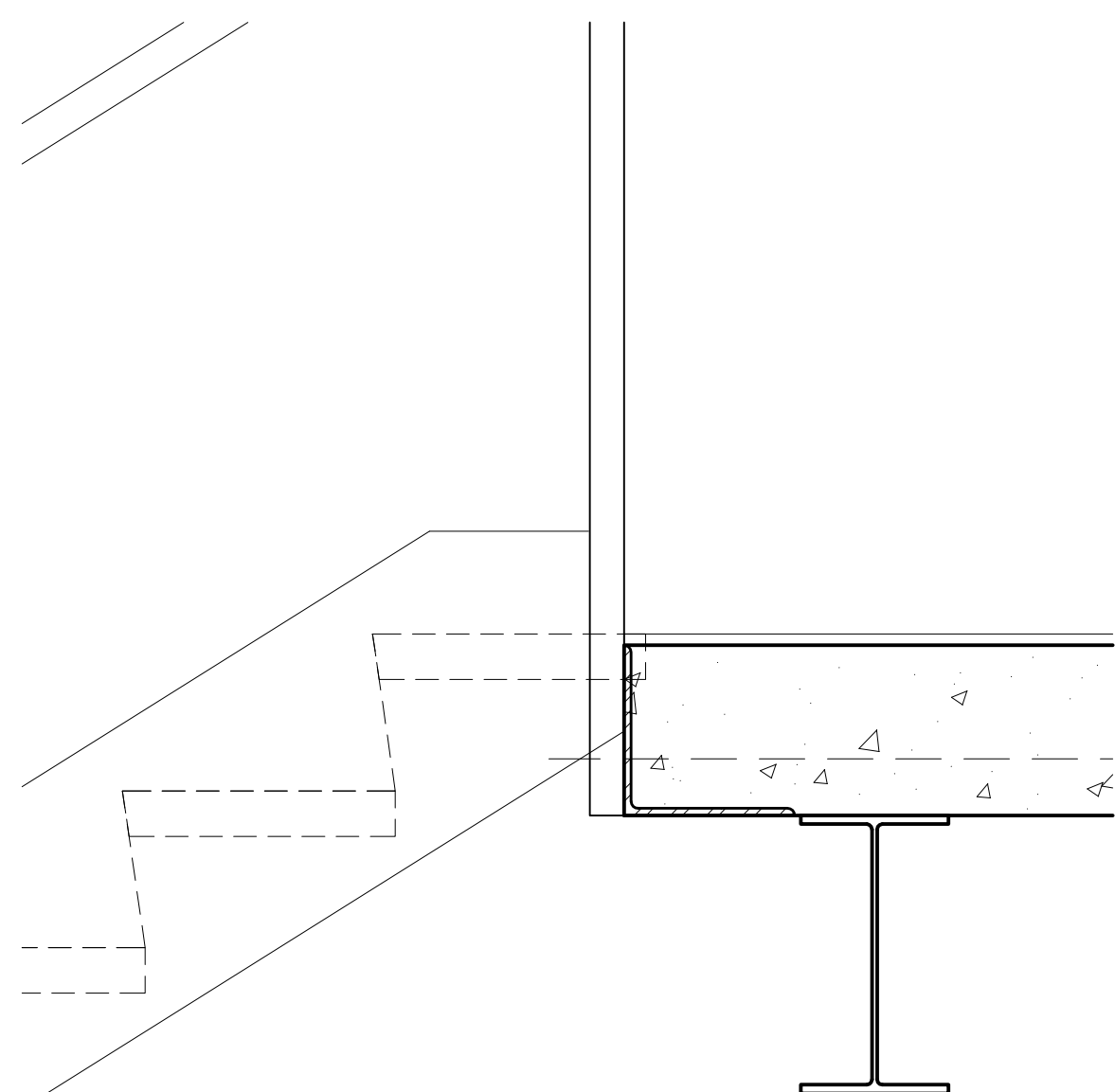
**SHEET NUMBER**

## A540

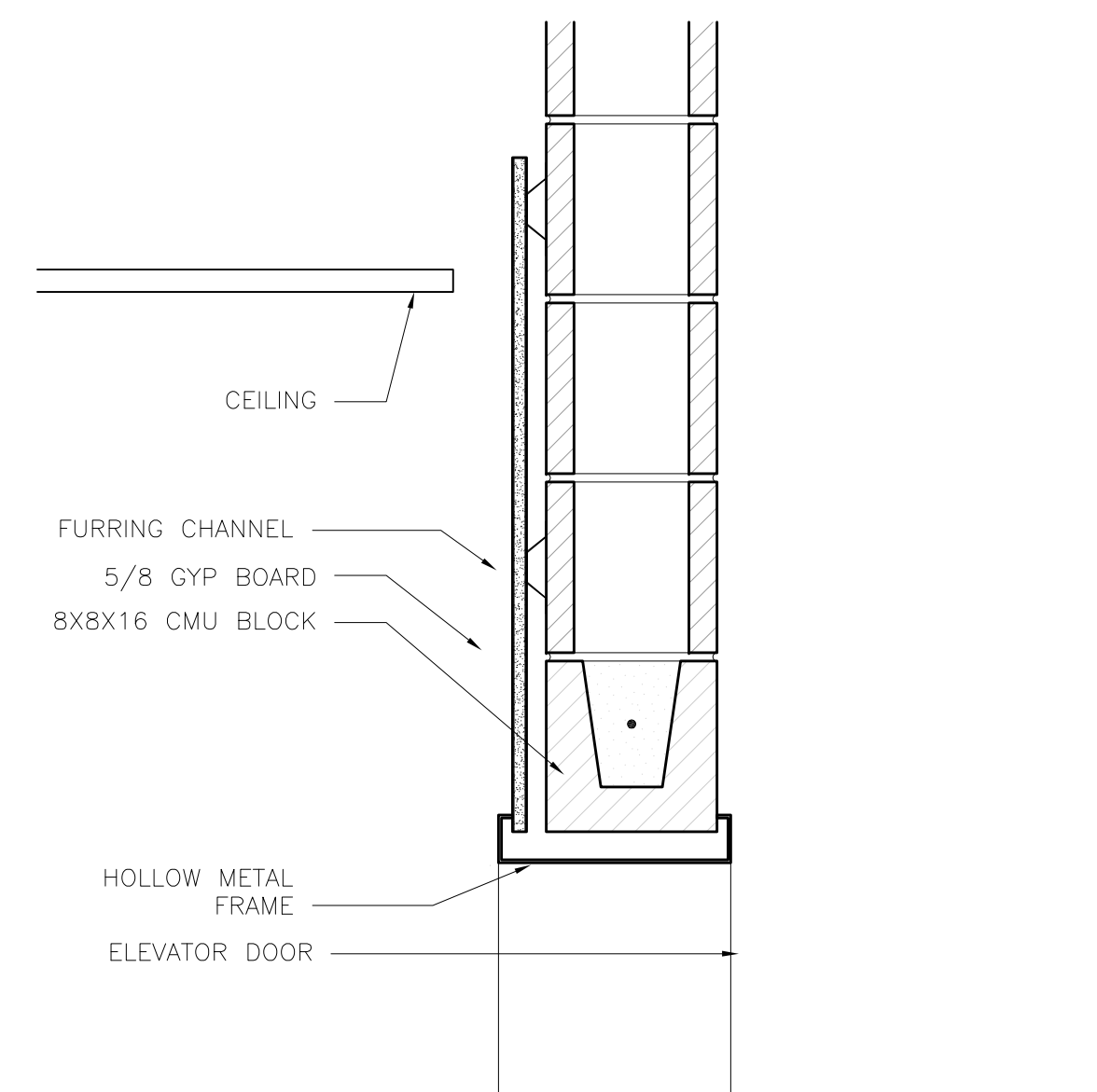
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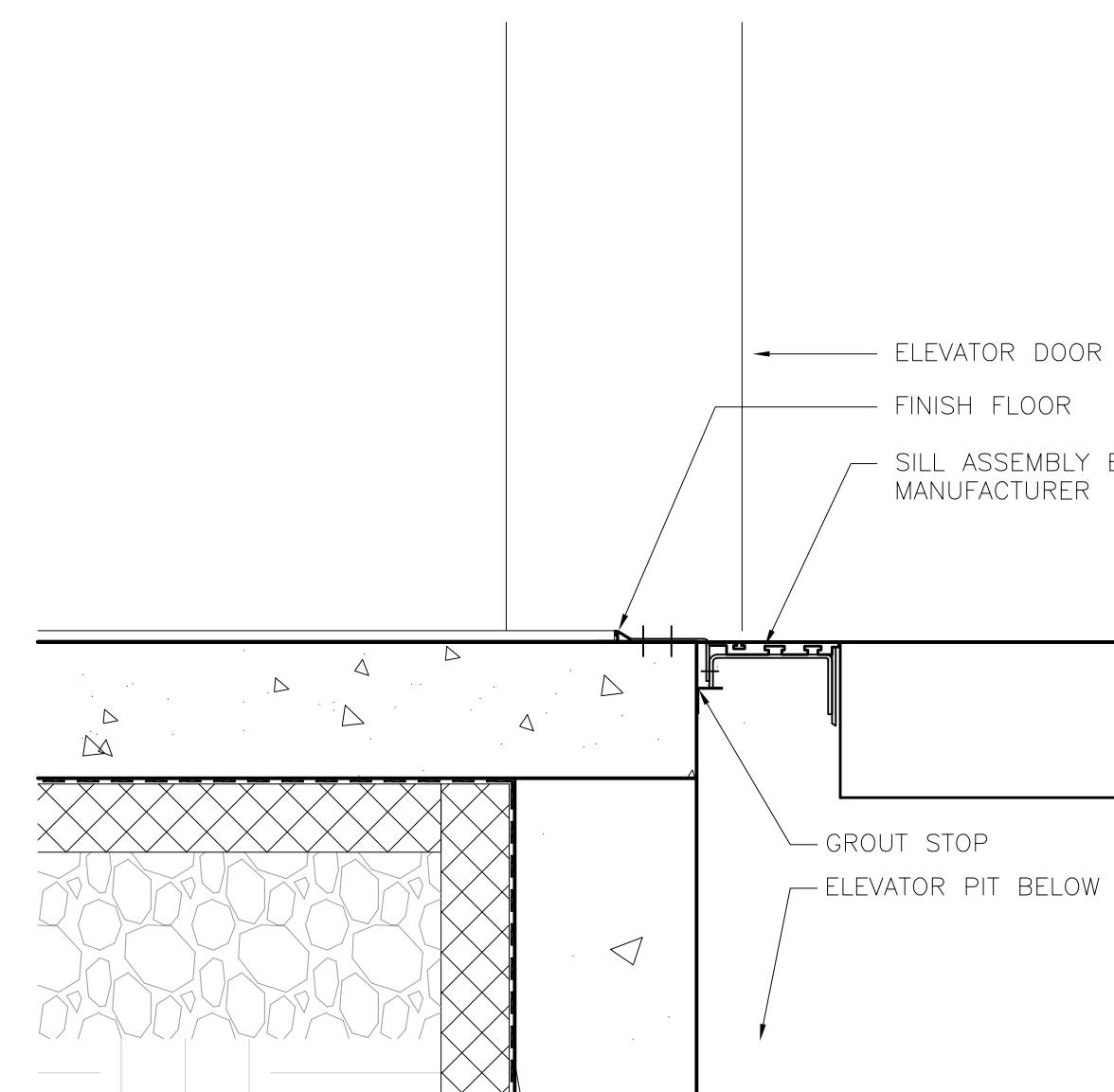
## 10 STRINGER TO STUD WALL DETAIL



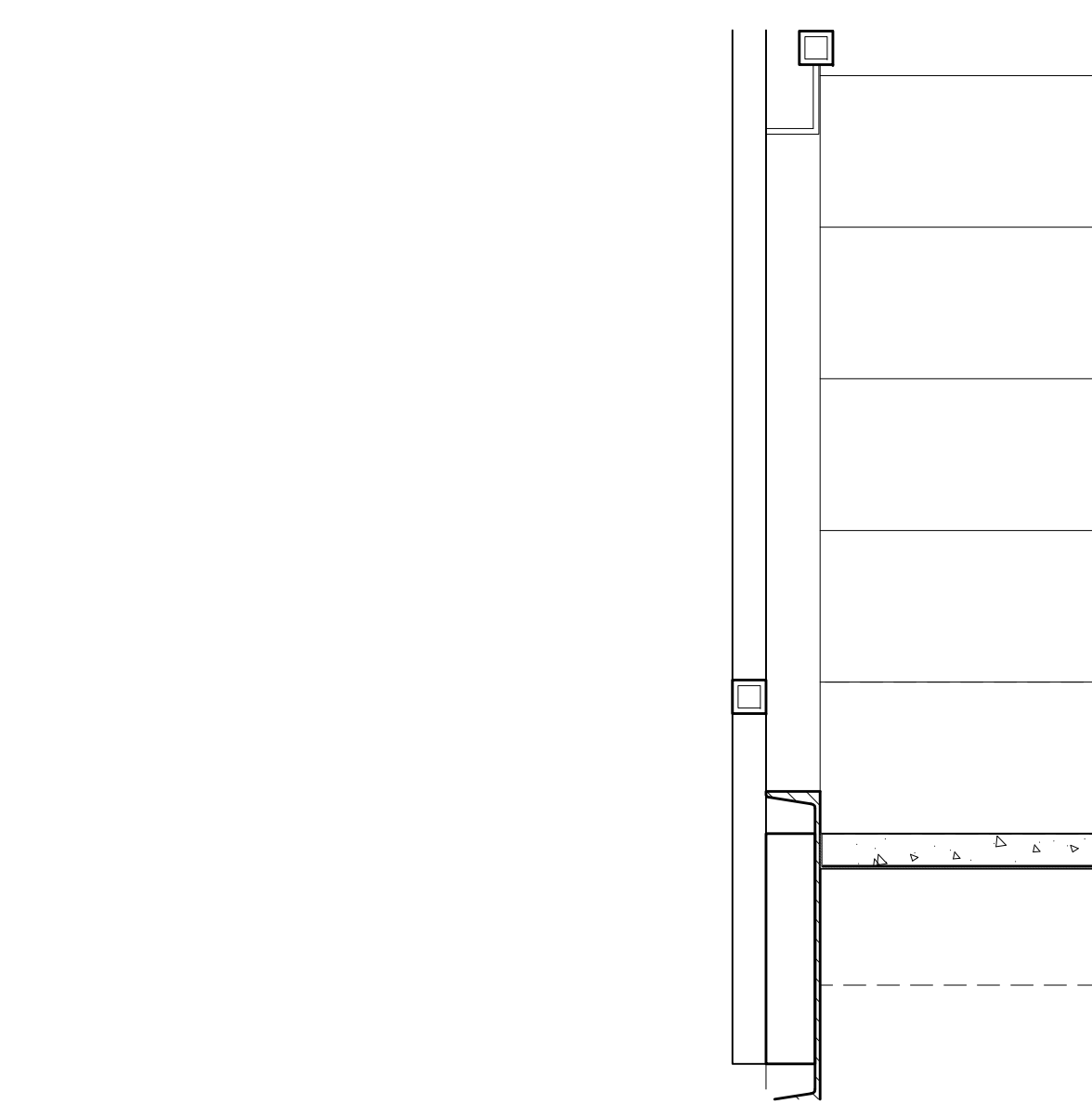
## 11 RAIL TERMINATION DETAIL



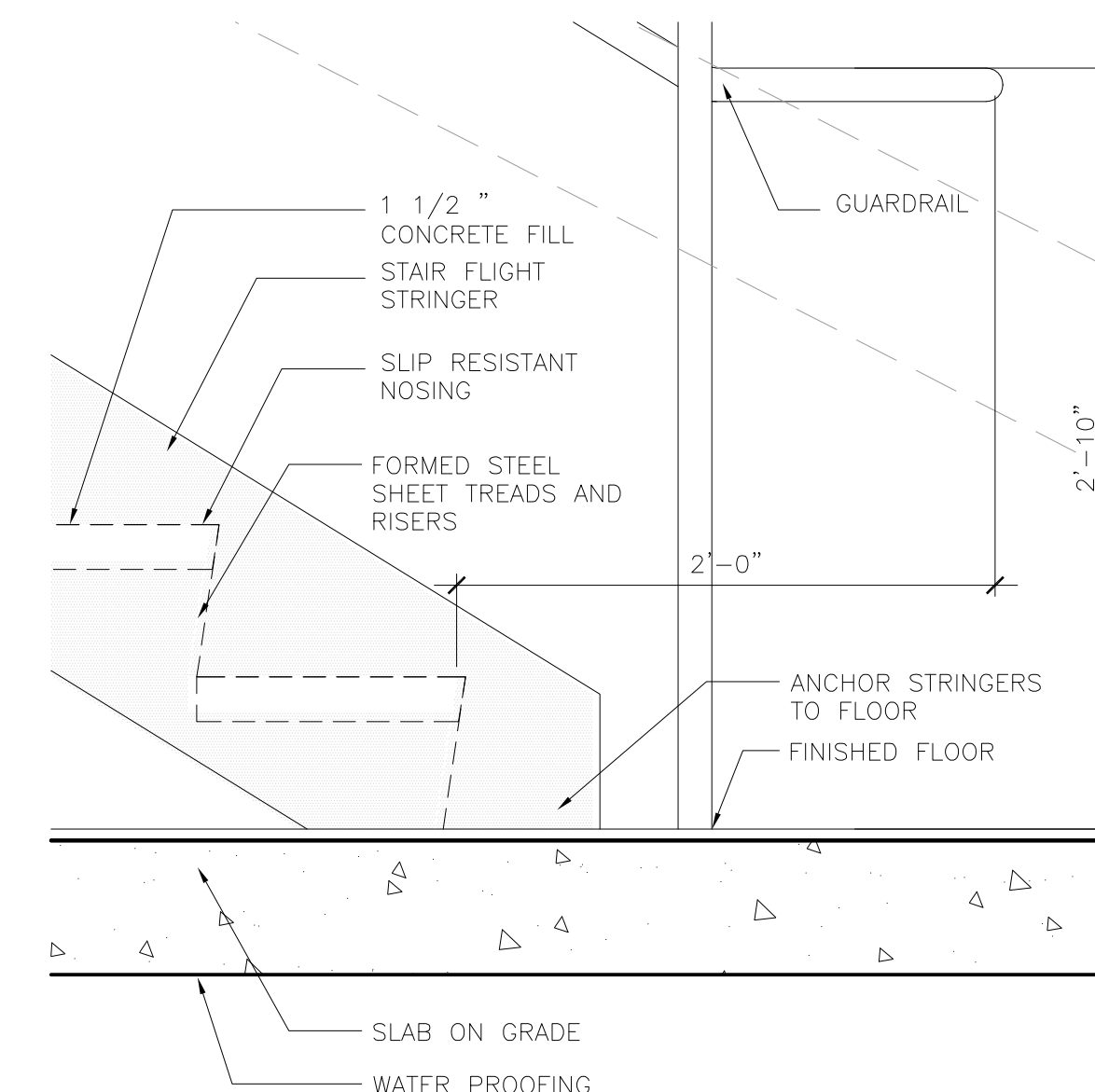
7 HEAD DETAIL @ ELEVATOR FIRST LEVEL  
1 1/2" = 1'-0"



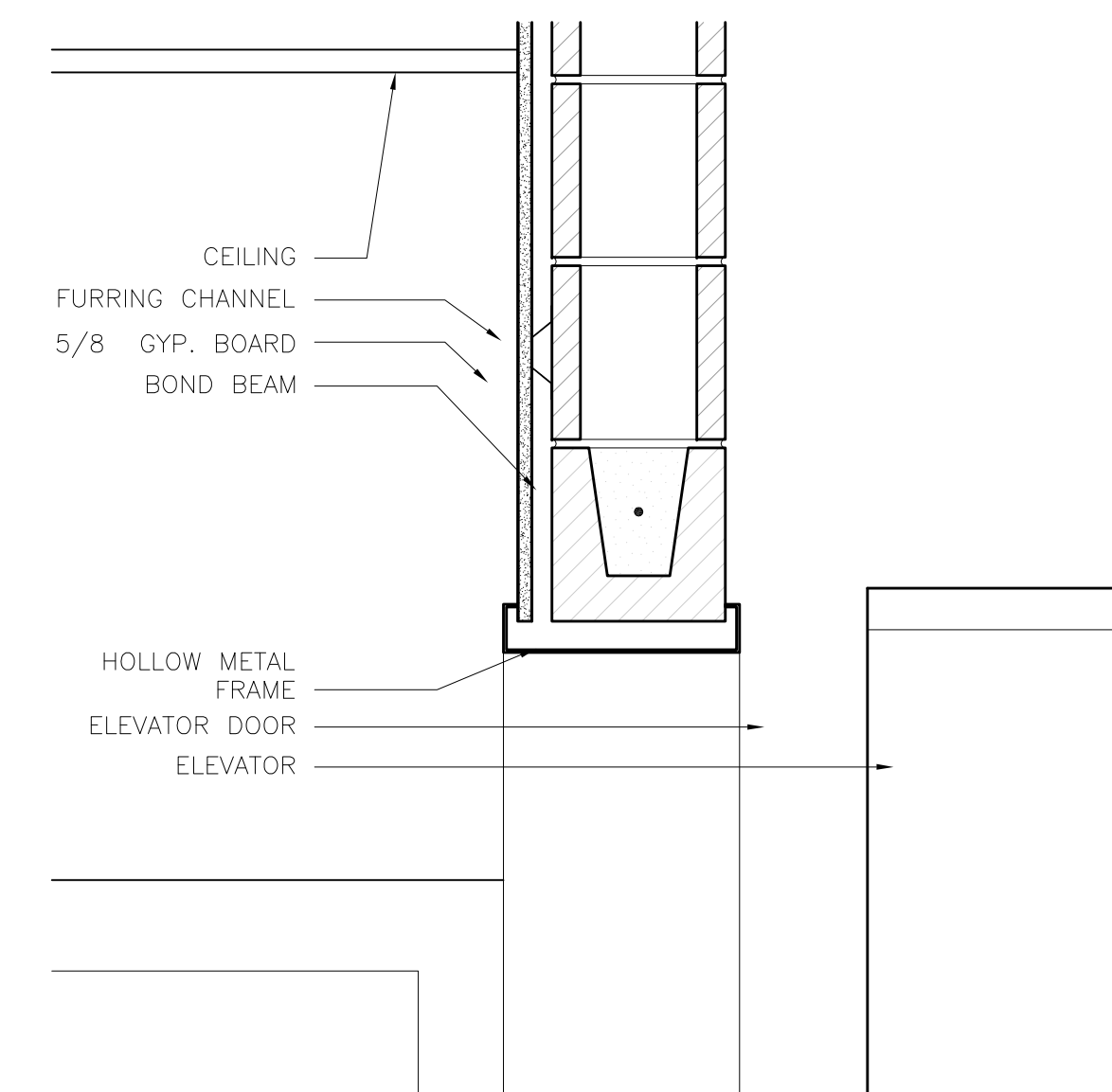
8 SILL DETAIL @ ELEVATOR FIRST LEVEL  
1 1/2" = 1'-0"



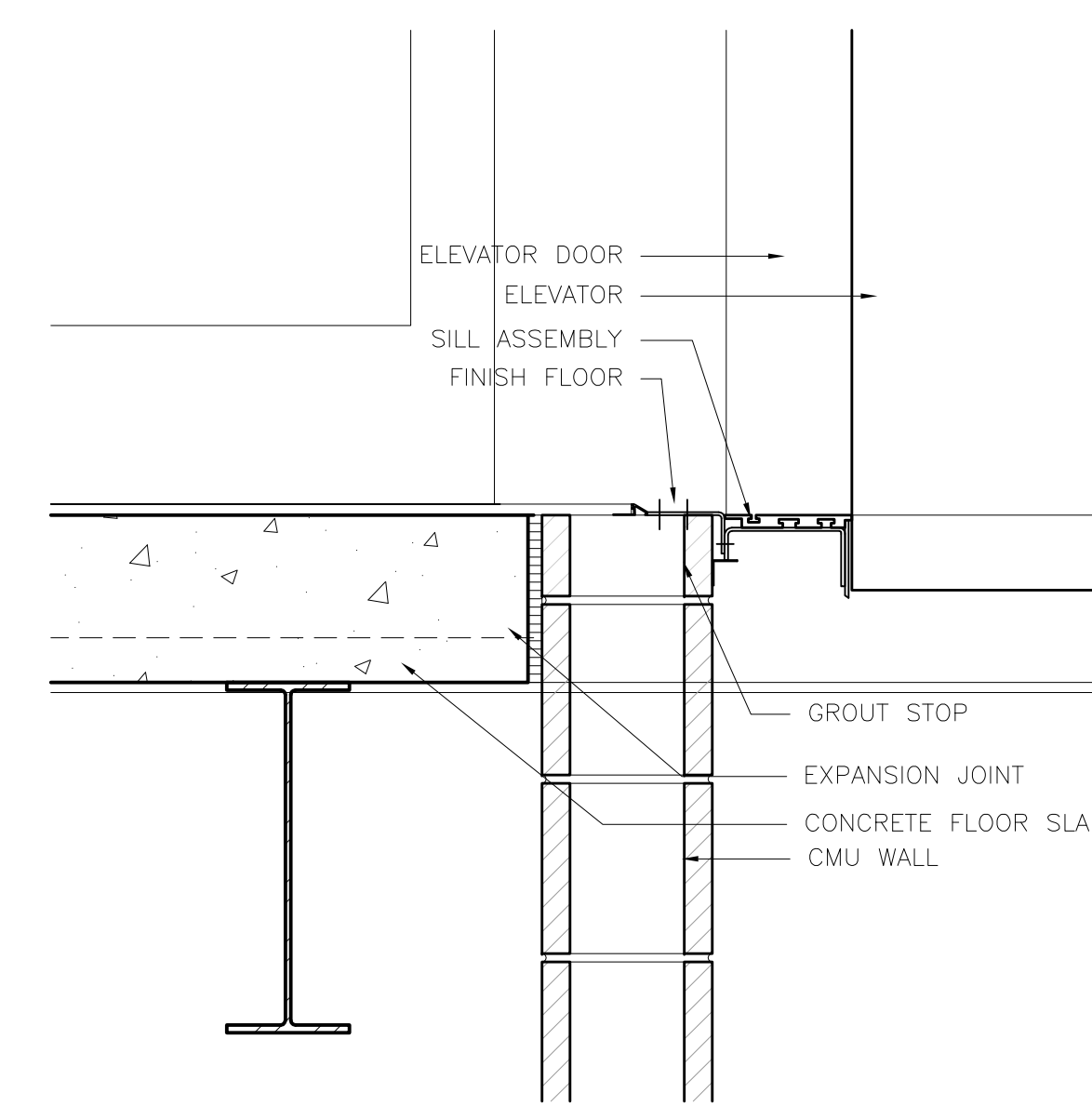
9 STRINGER TO STAIR DETAIL  
1 1/2" = 1'-0"



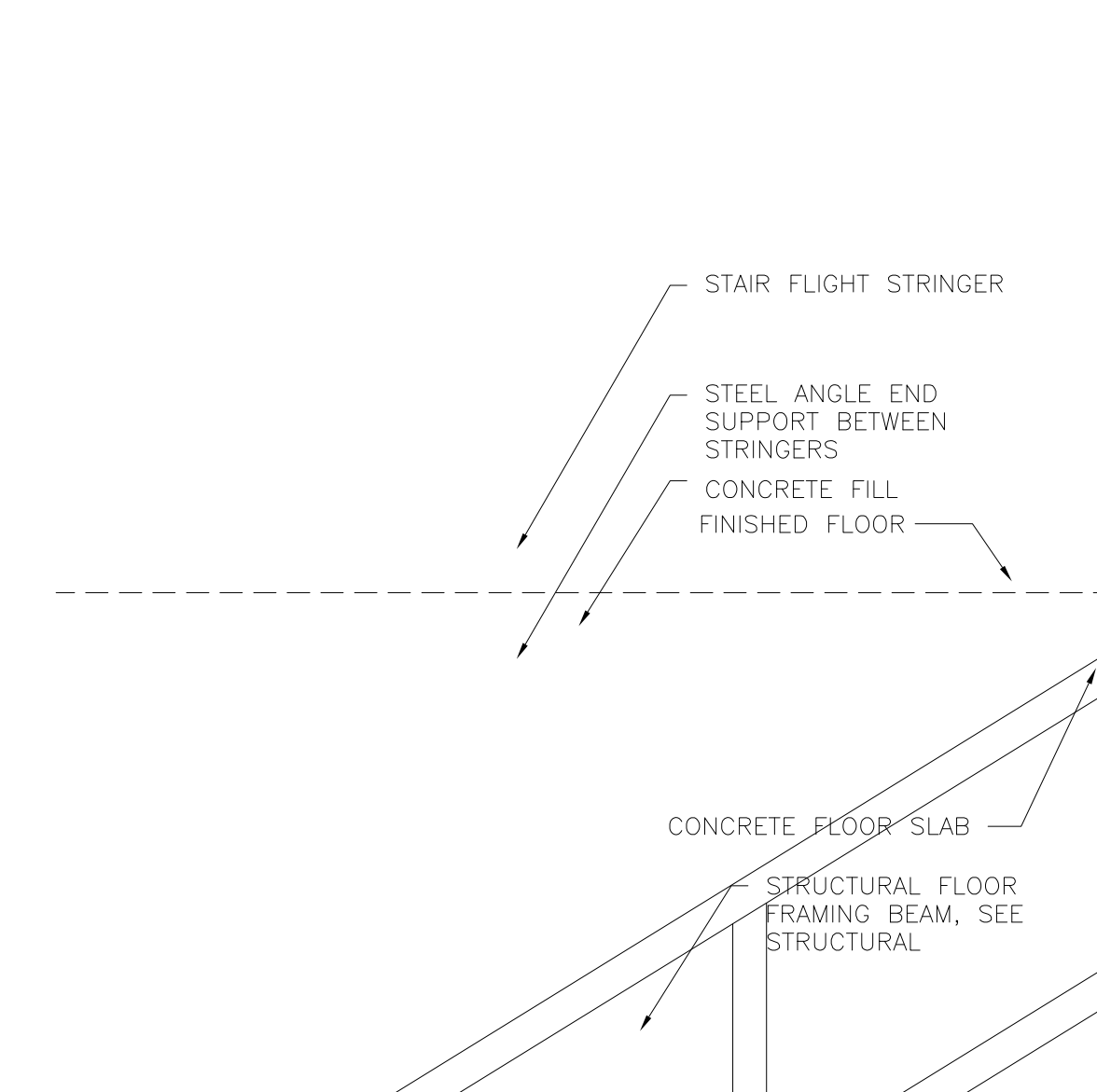
4 STAIR STRINGER @ FIRST LEVEL  
1 1/2" = 1'-0"



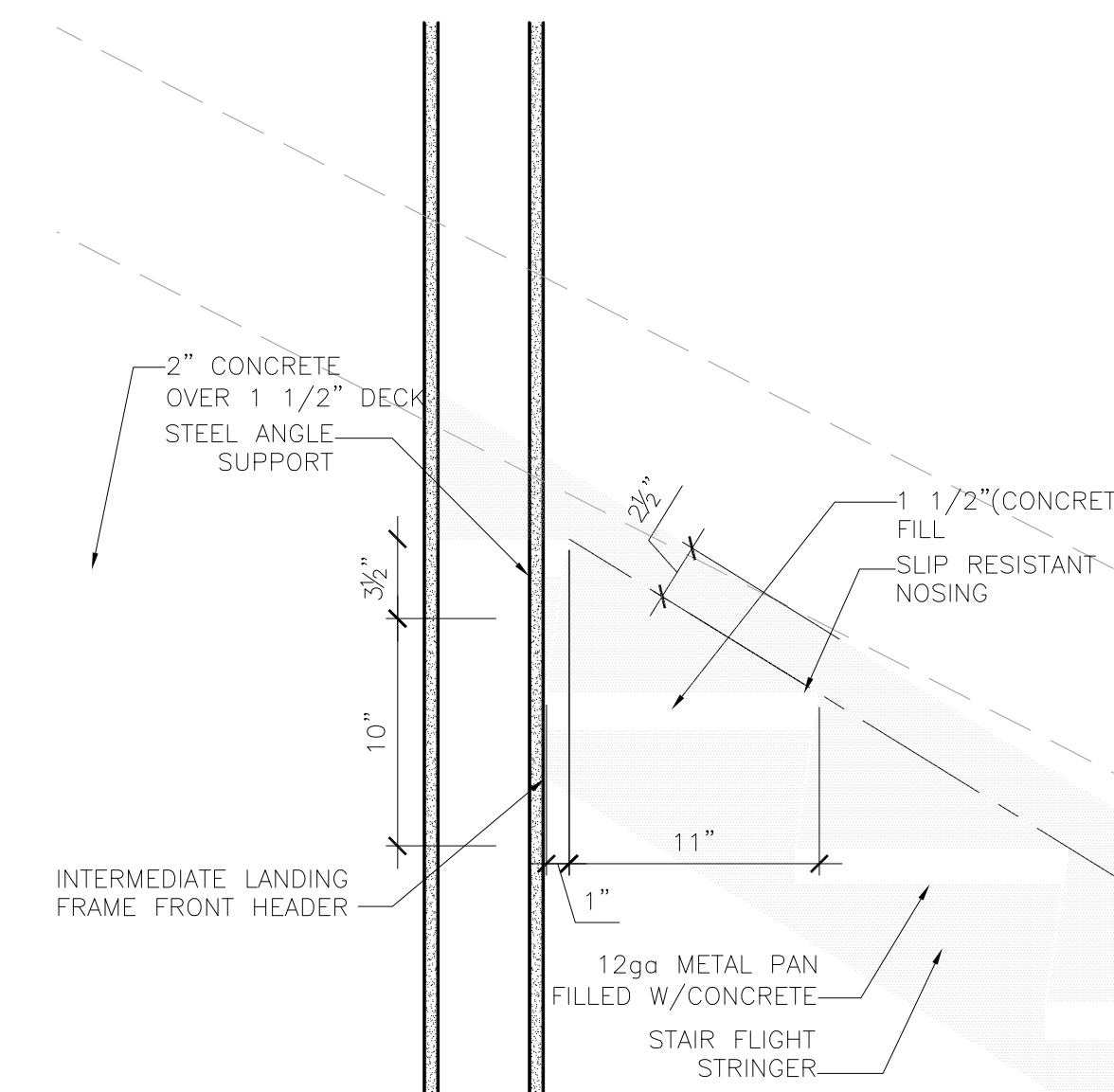
### 5 HEAD DETAIL @ ELEVATOR SECOND LEVEL



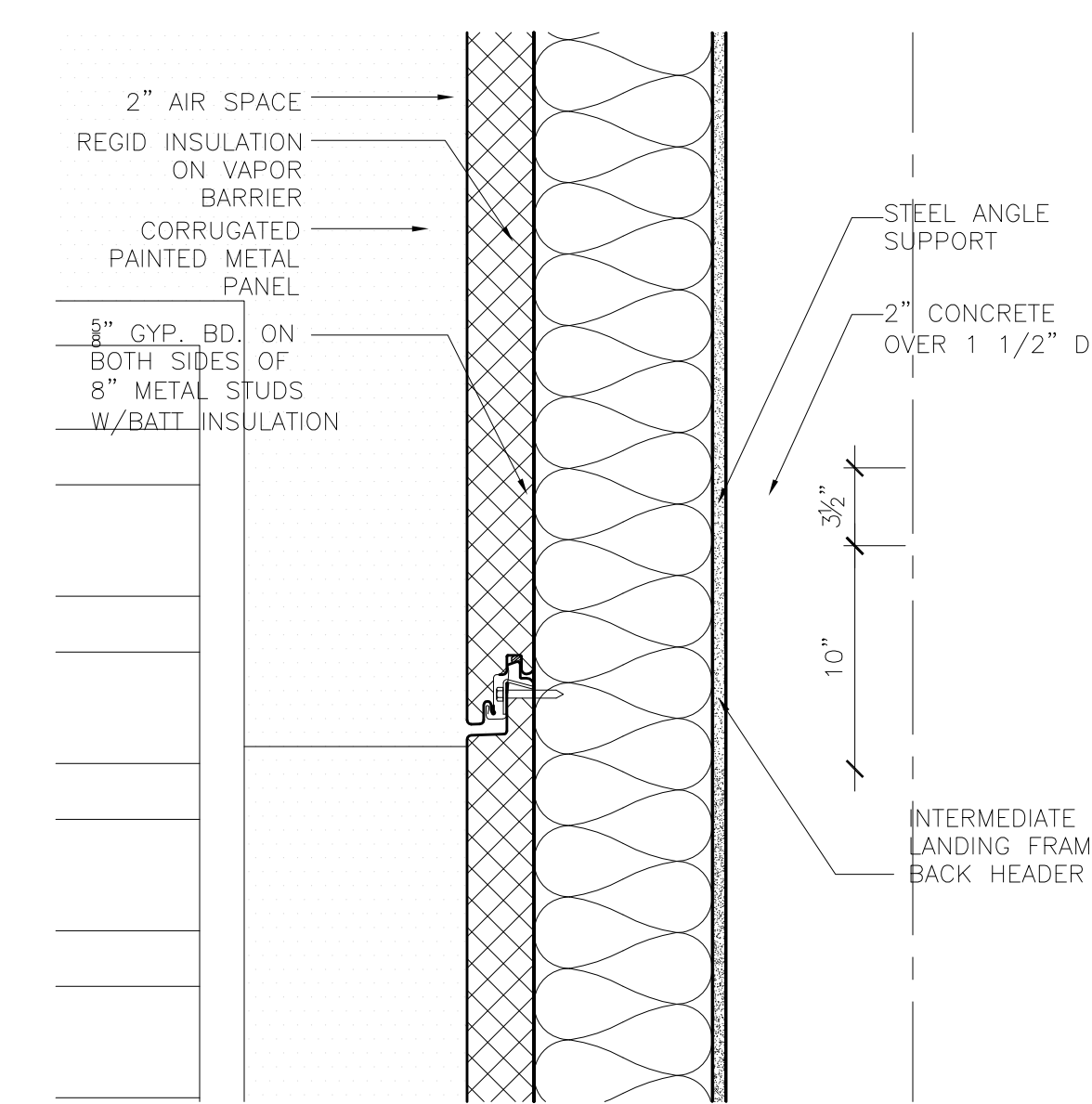
6 SILL DETAIL @ ELEVATOR SECOND LEVEL  
1 1/2" = 1'-0"



1 STAIR STRINGER @ SECOND LEVEL  
1 1/2" = 1'-0"

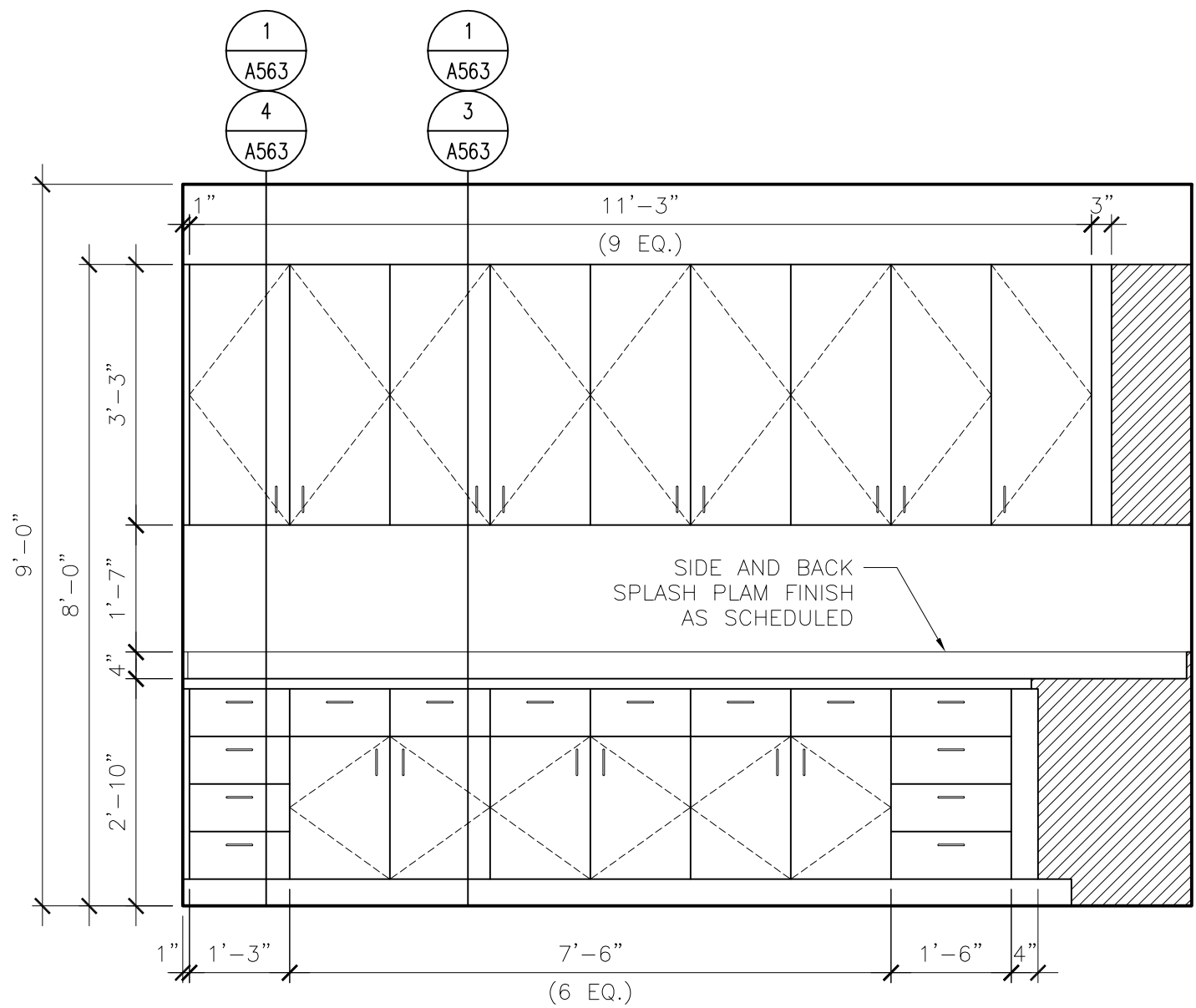


## 2 STAIR STRINGER TO INTERMEDIATE LANDING

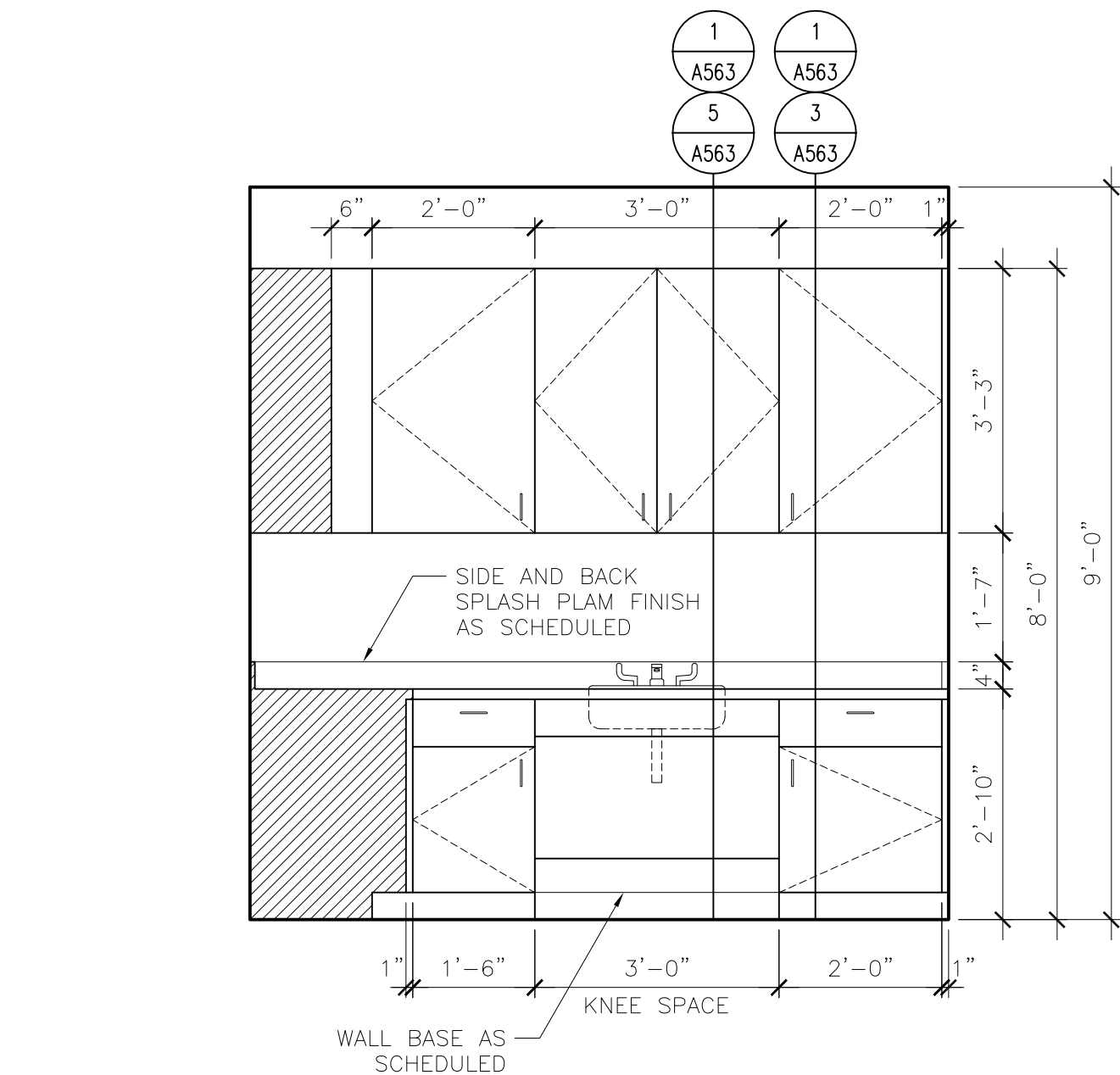


## 2 LANDING TO WALL DETAIL

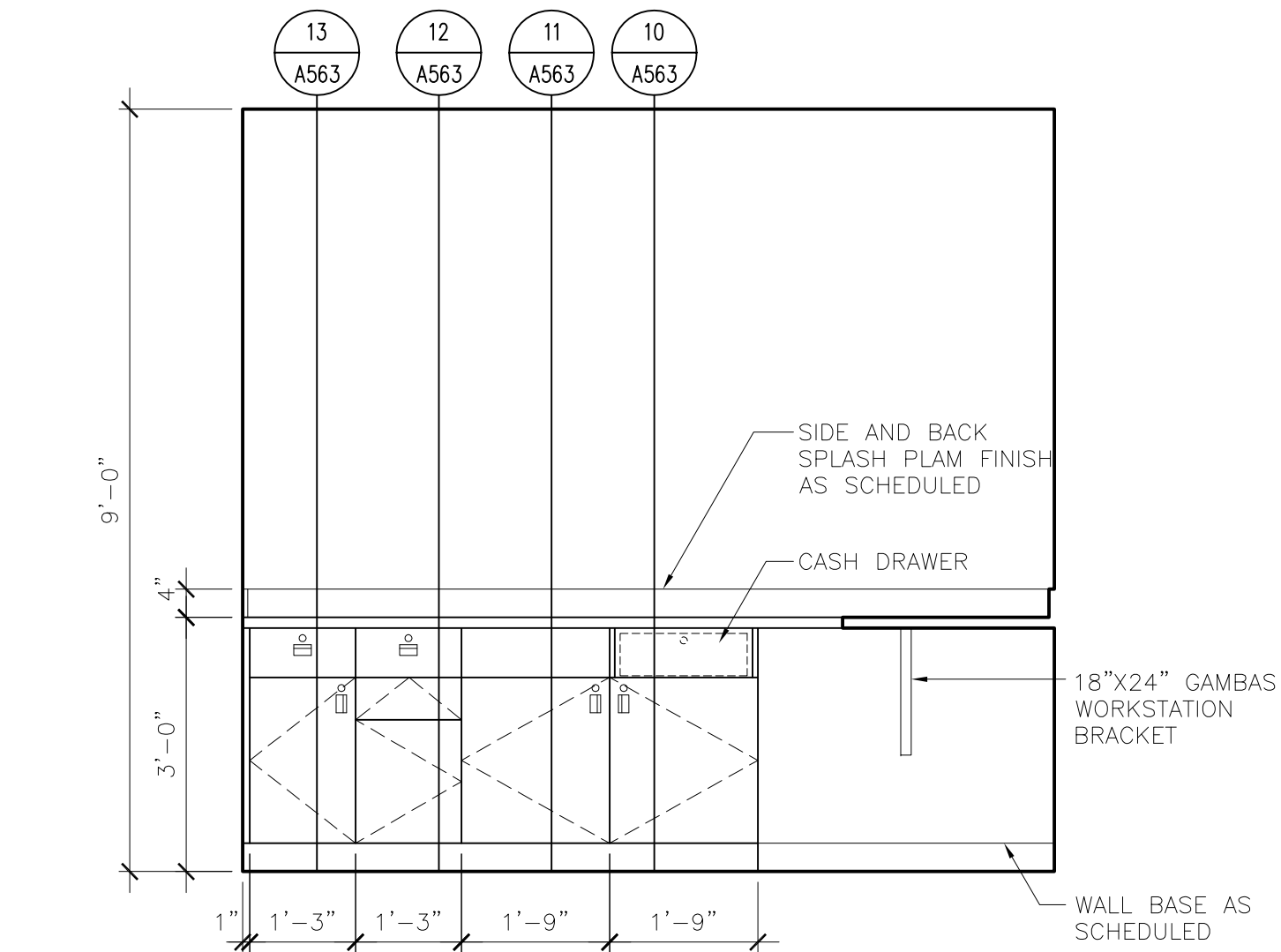




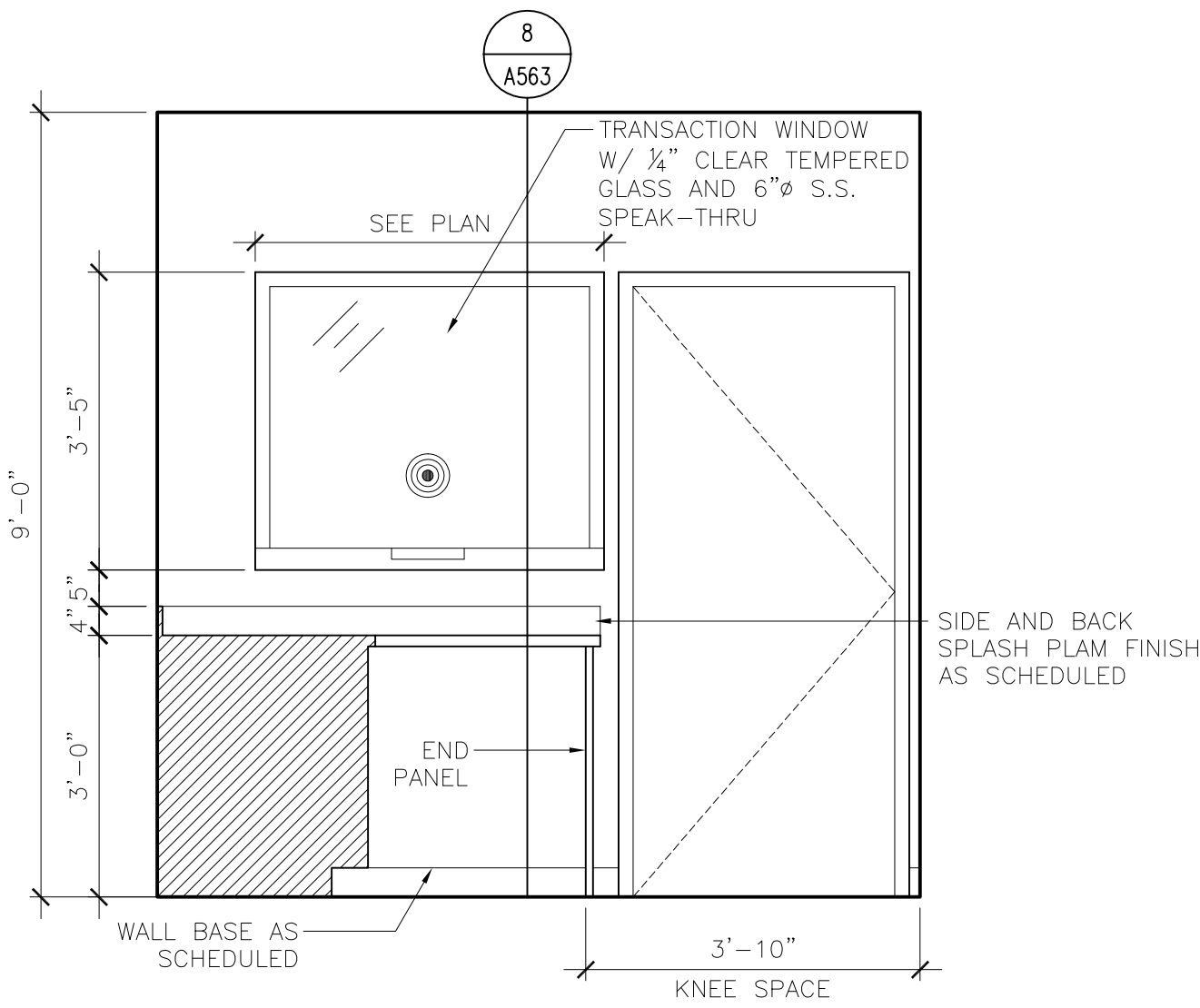
4 AG LAB ELEVATION (RM 160)



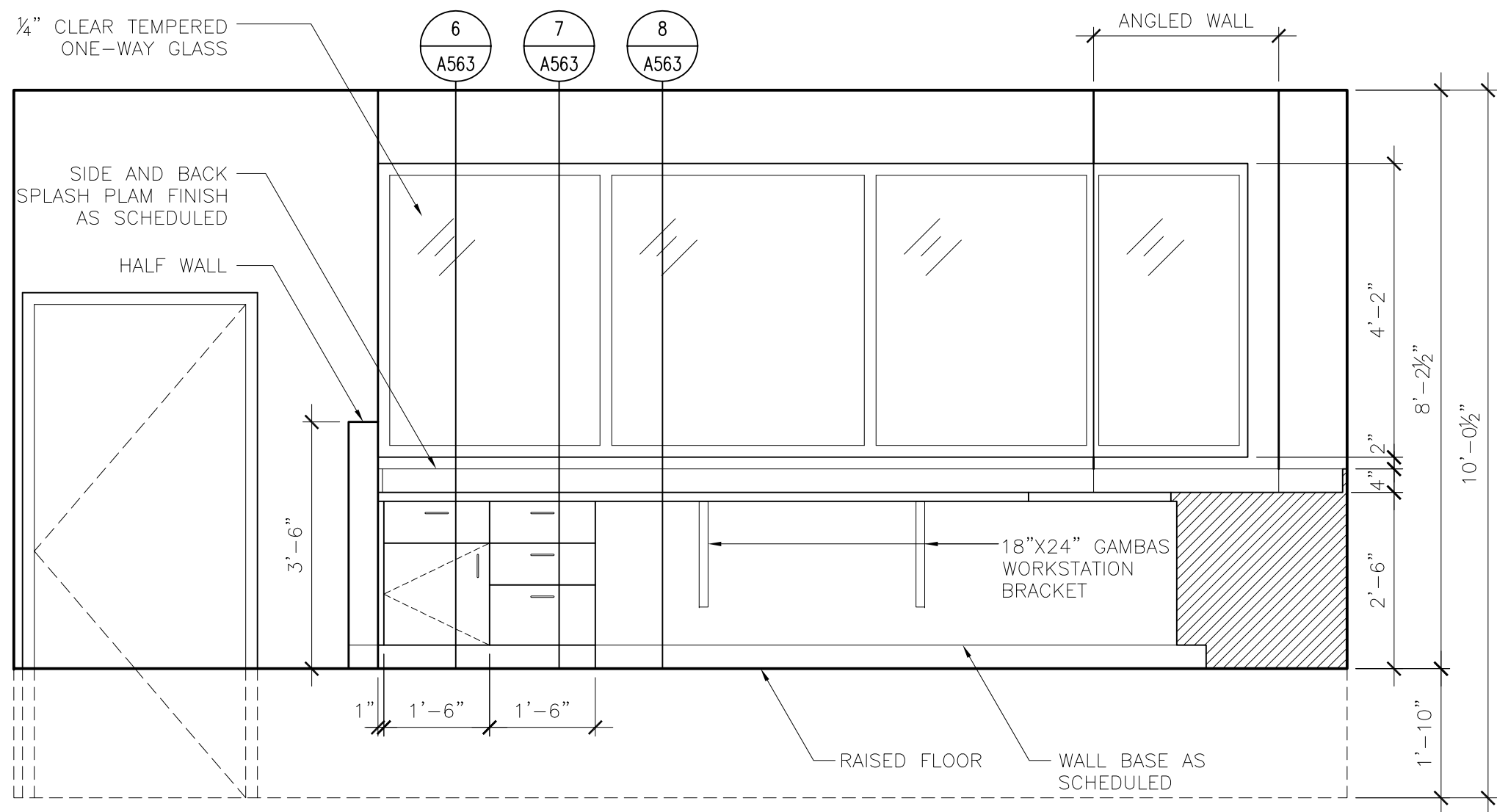
3 AG LAB ELEVATION (RM 160)



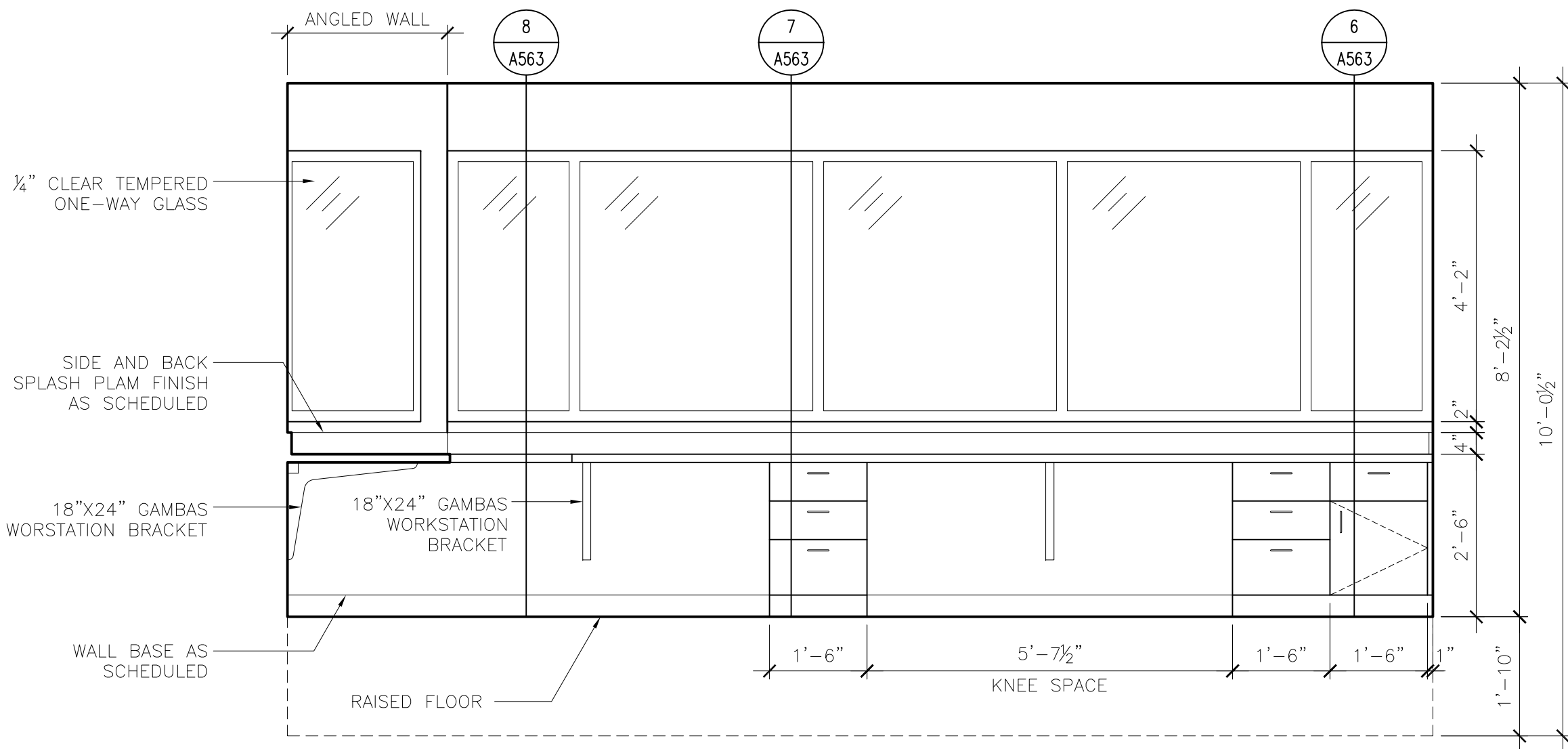
2 CASHIER ELEVATION (RM 181)



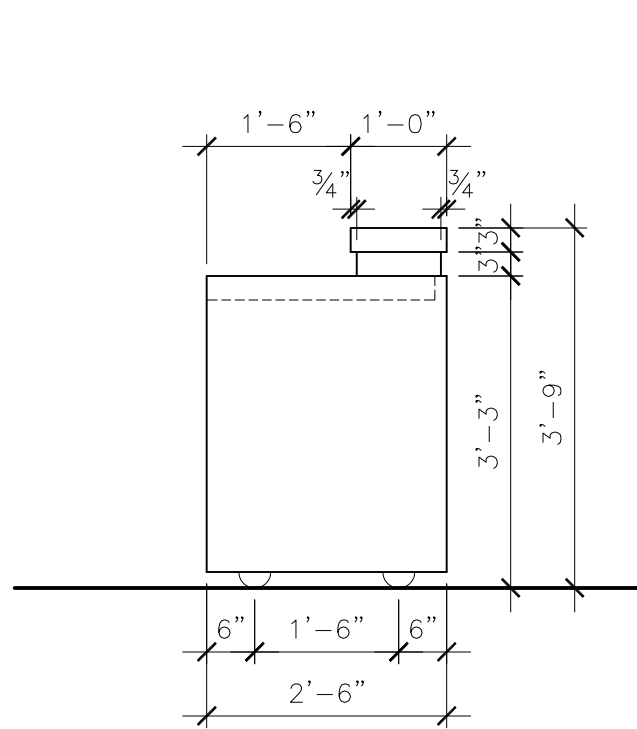
1 CASHIER ELEVATION (RM 181)



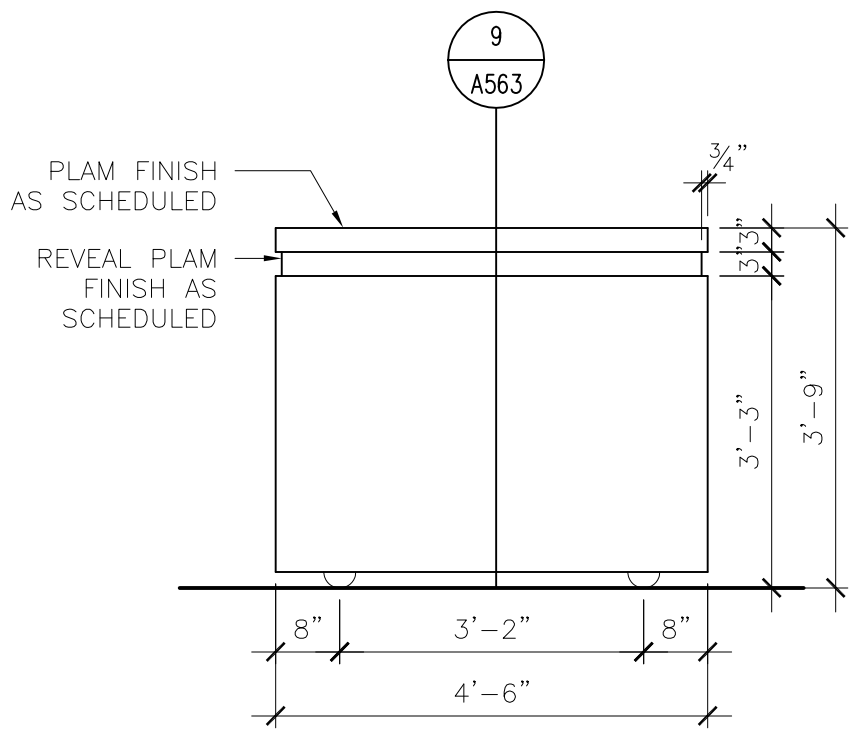
6 ROVER RM ELEVATION (RM 163)



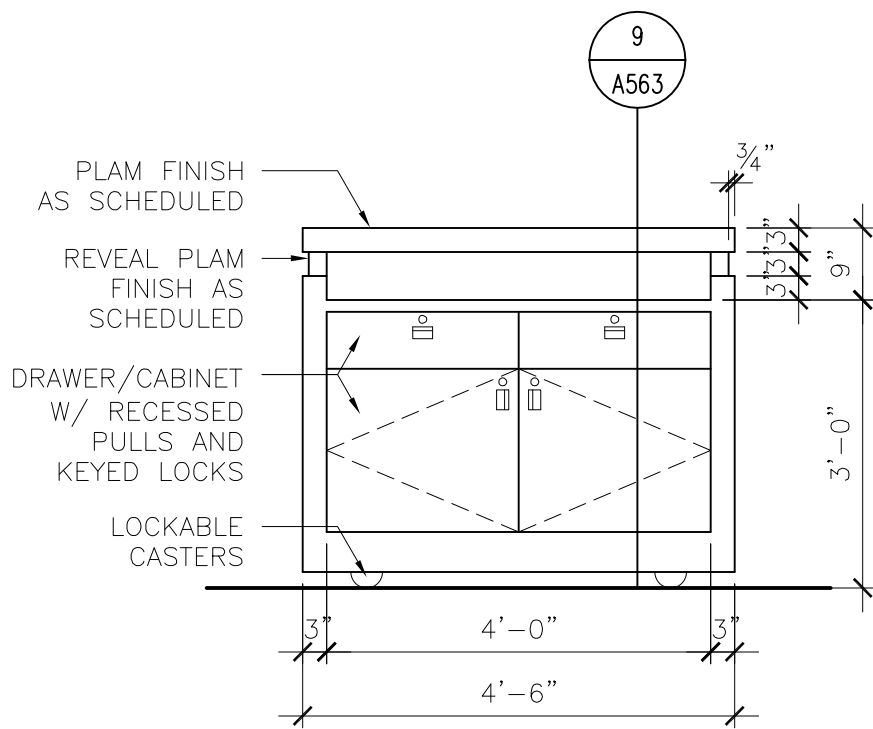
5 ROVER RM ELEVATION (RM 163)



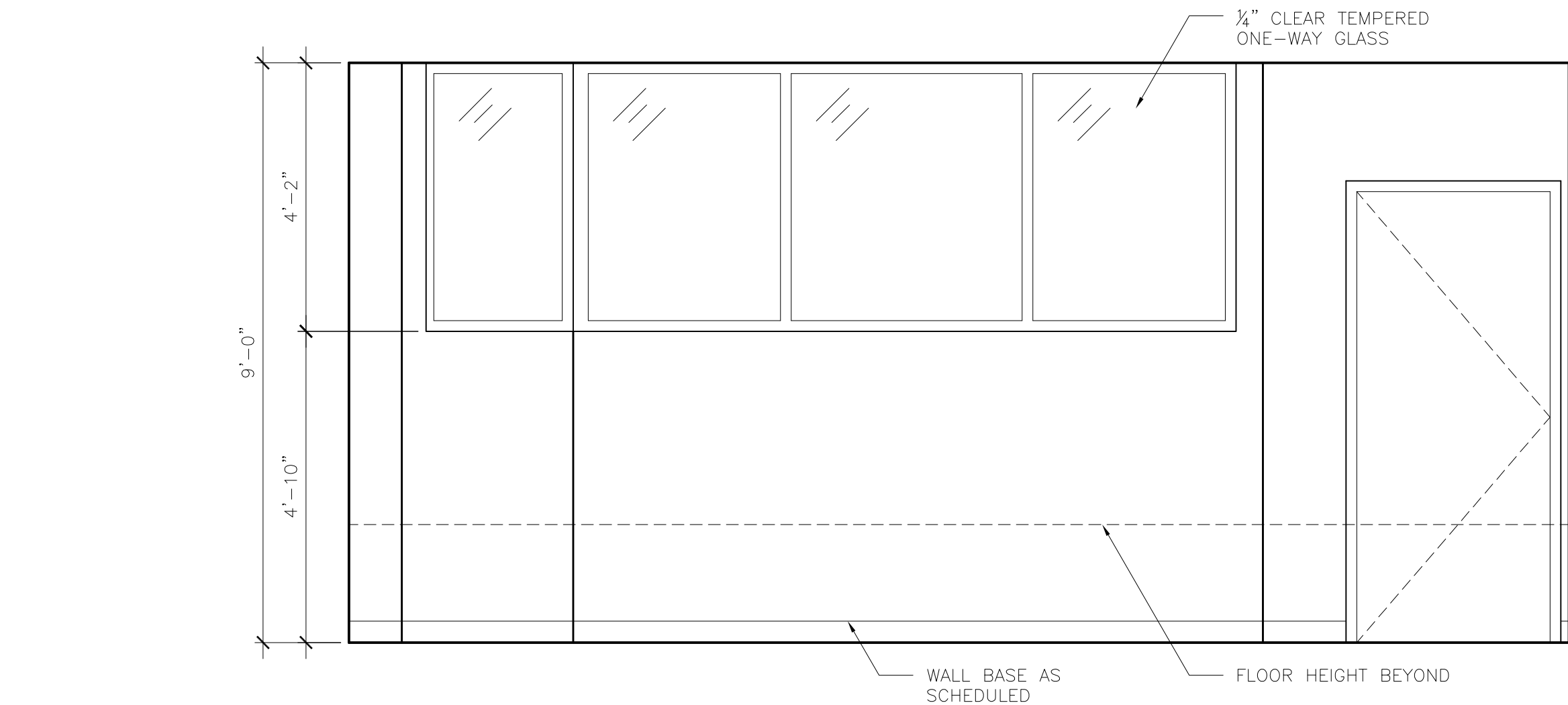
10 MOBILE PODIUM ELEV (RM 159)



9 MOBILE PODIUM ELEV (RM 159)



8 MOBILE PODIUM ELEV (RM 159)



7 ROVER ENTRY ELEVATION (RM 159)

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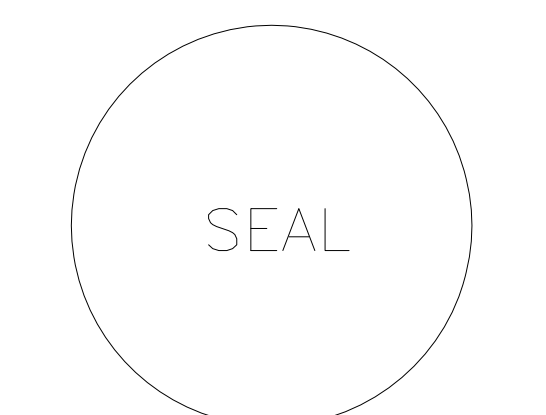
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DRAWN BY: VO  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**MILLWORK  
ELEVATIONS**

**SHEET NUMBER**  
**A560**

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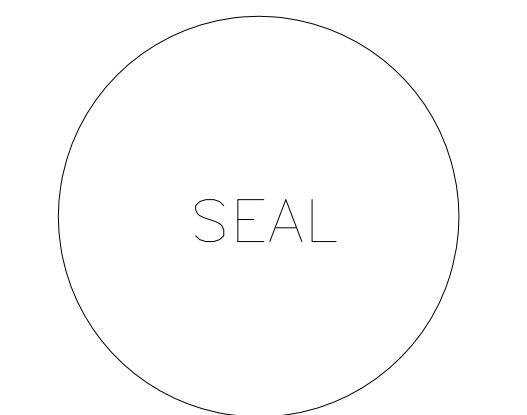
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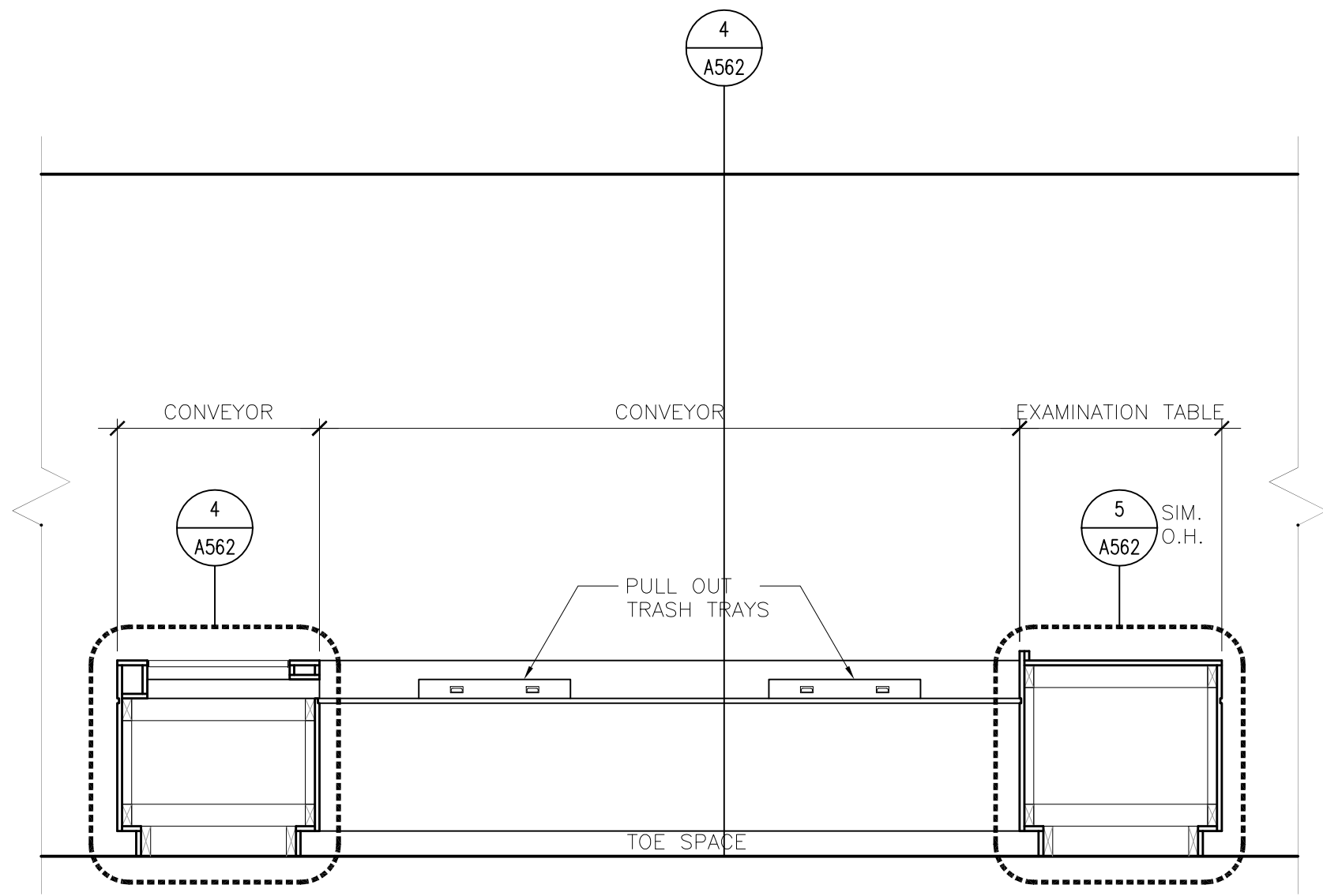
DATE ISSUED: 04-12-10  
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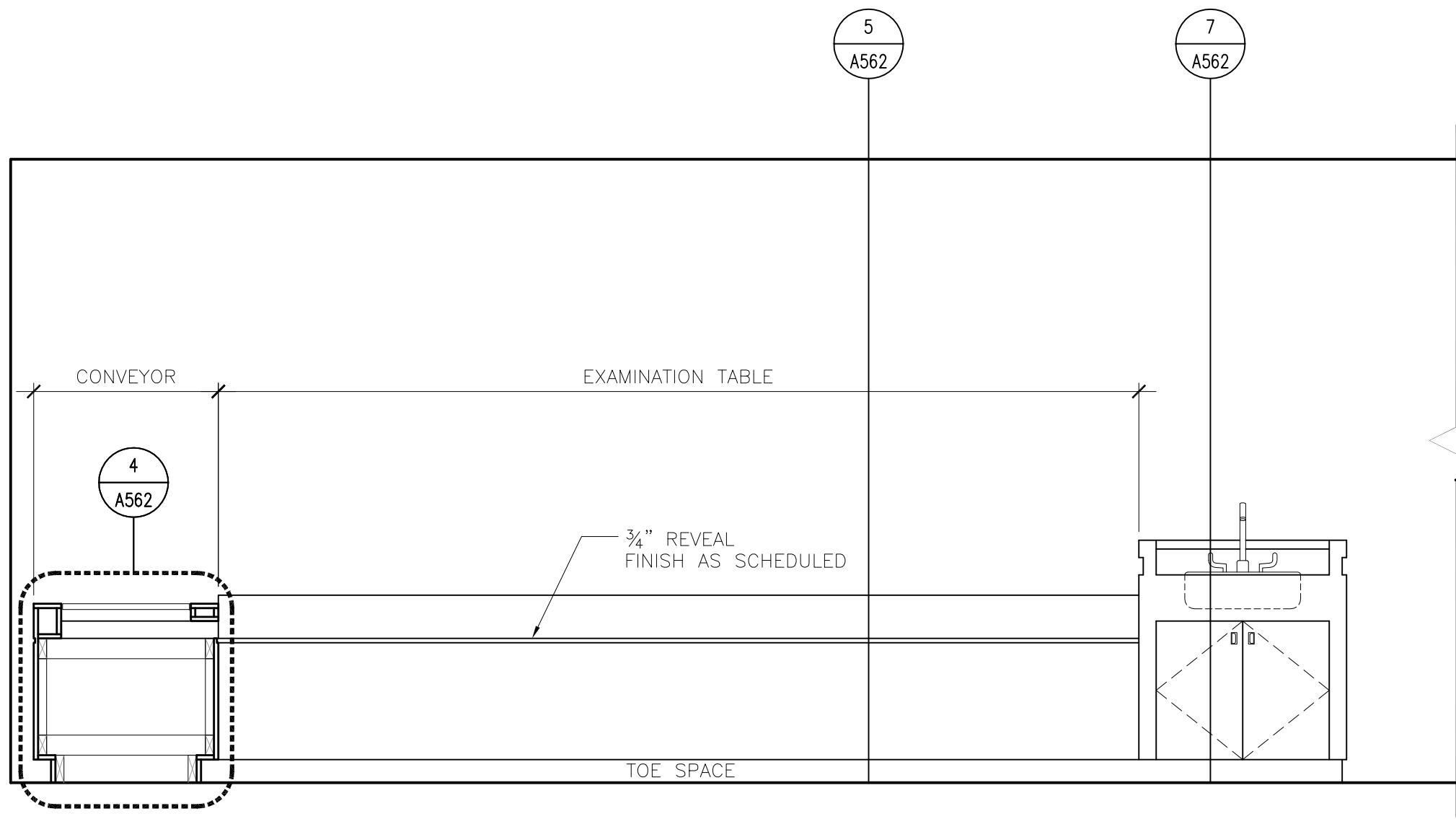
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**MILLWORK  
ELEVATIONS**

SHEET NUMBER  
**A561**

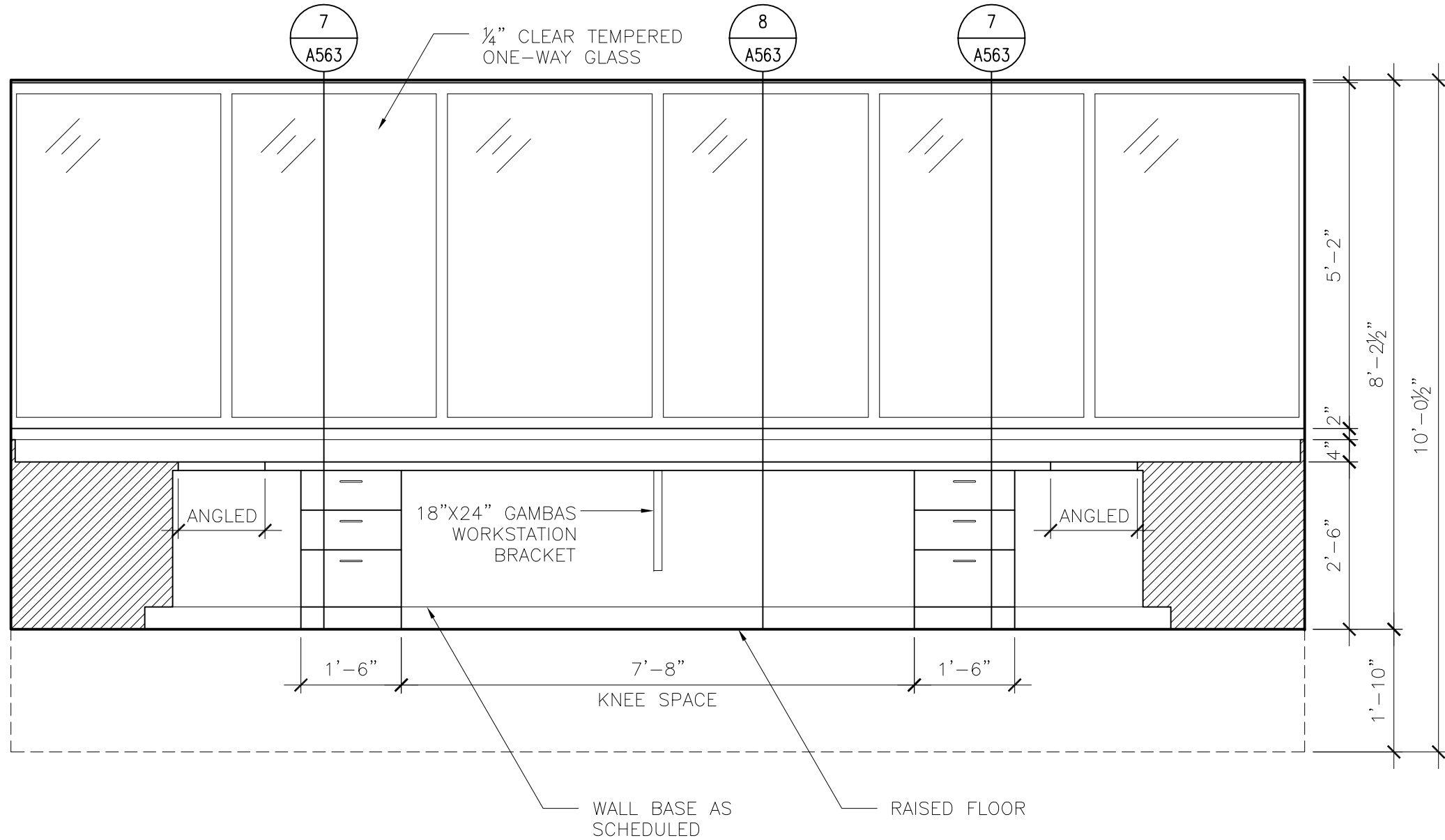
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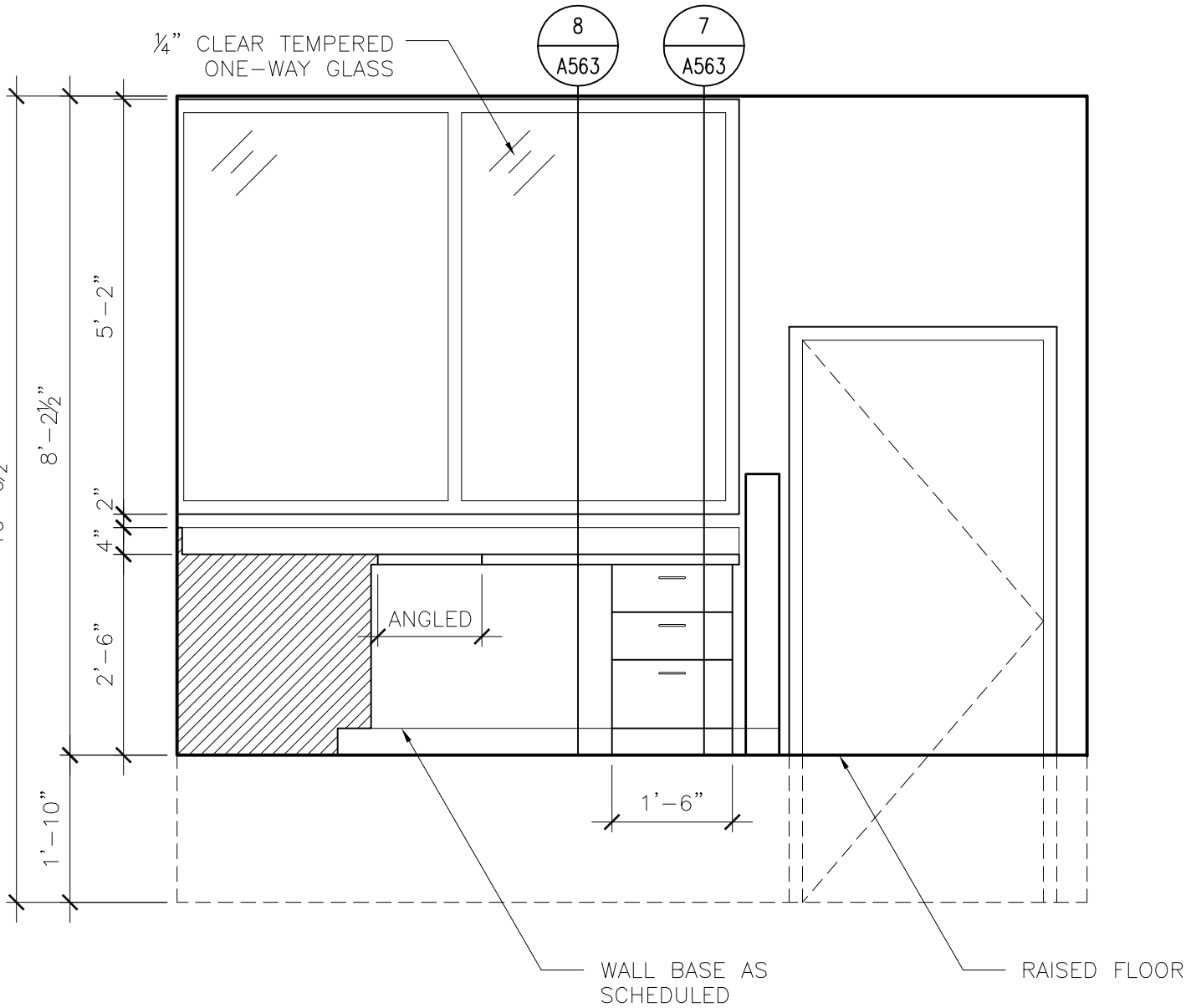
2 SECONDARY X-RAY ELEVATION (RM 159)  
1/2" = 1'-0"



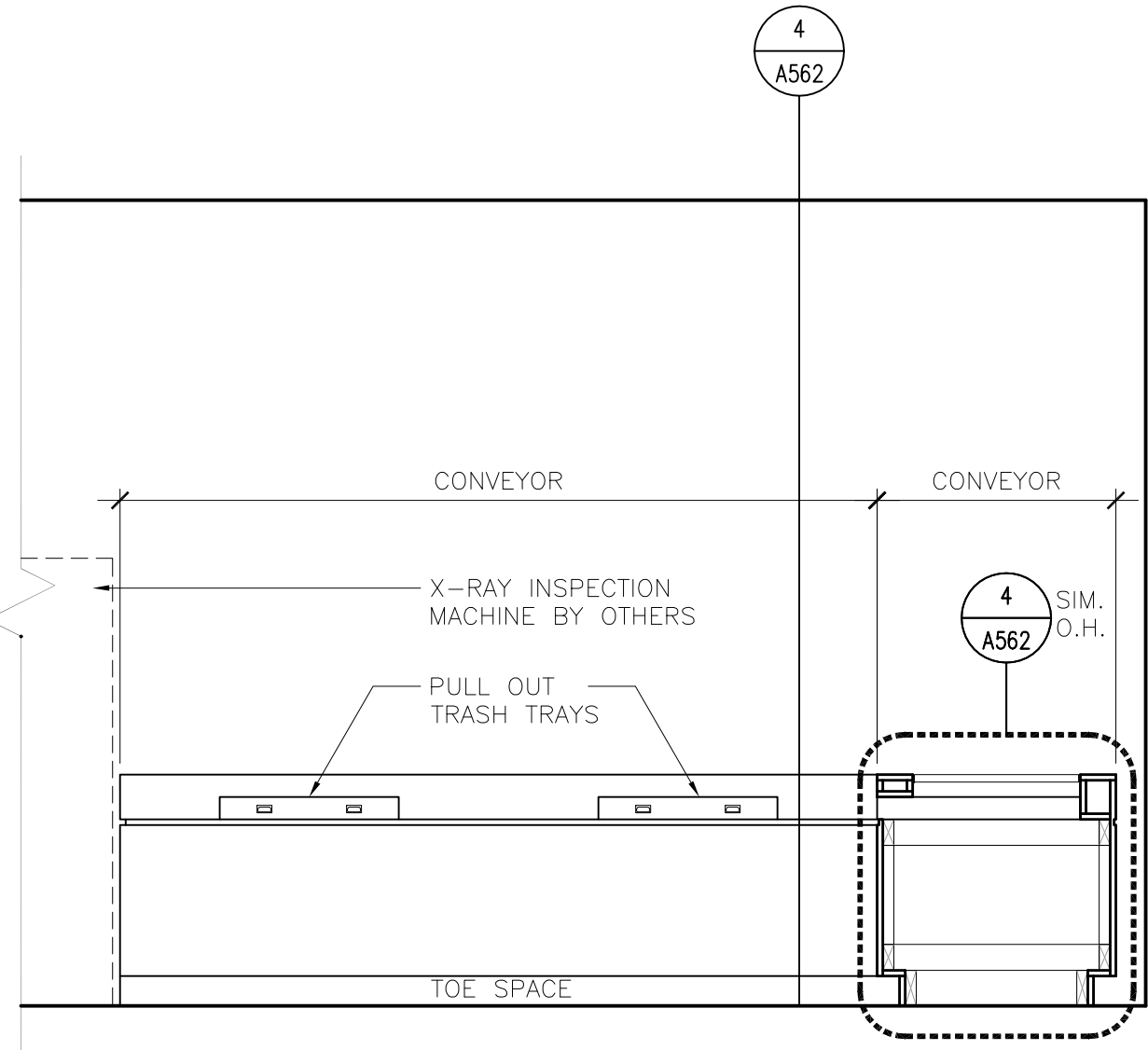
1 SECONDARY X-RAY ELEVATION (RM 159)  
1/2" = 1'-0"



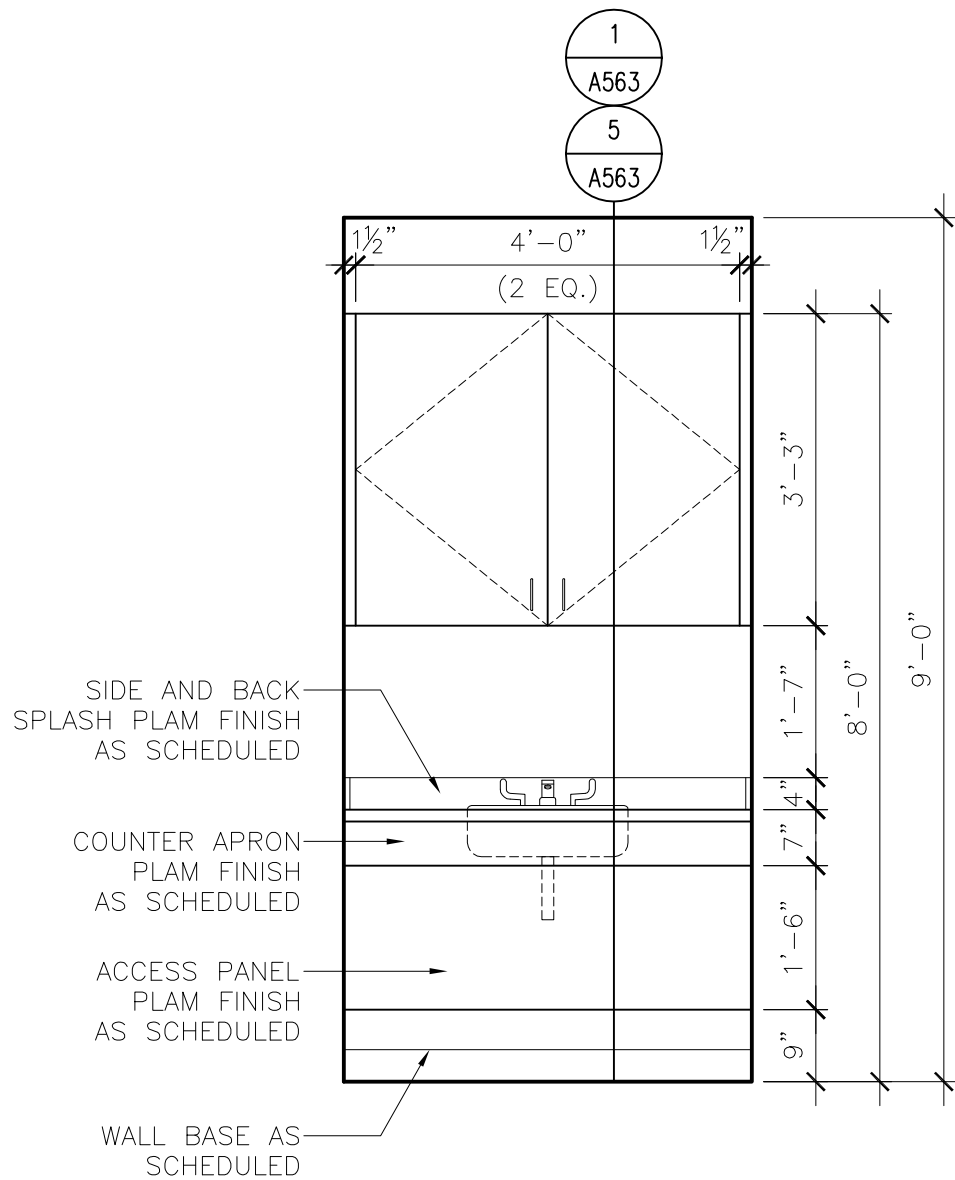
5 ROVER RM ELEVATION (RM 245)  
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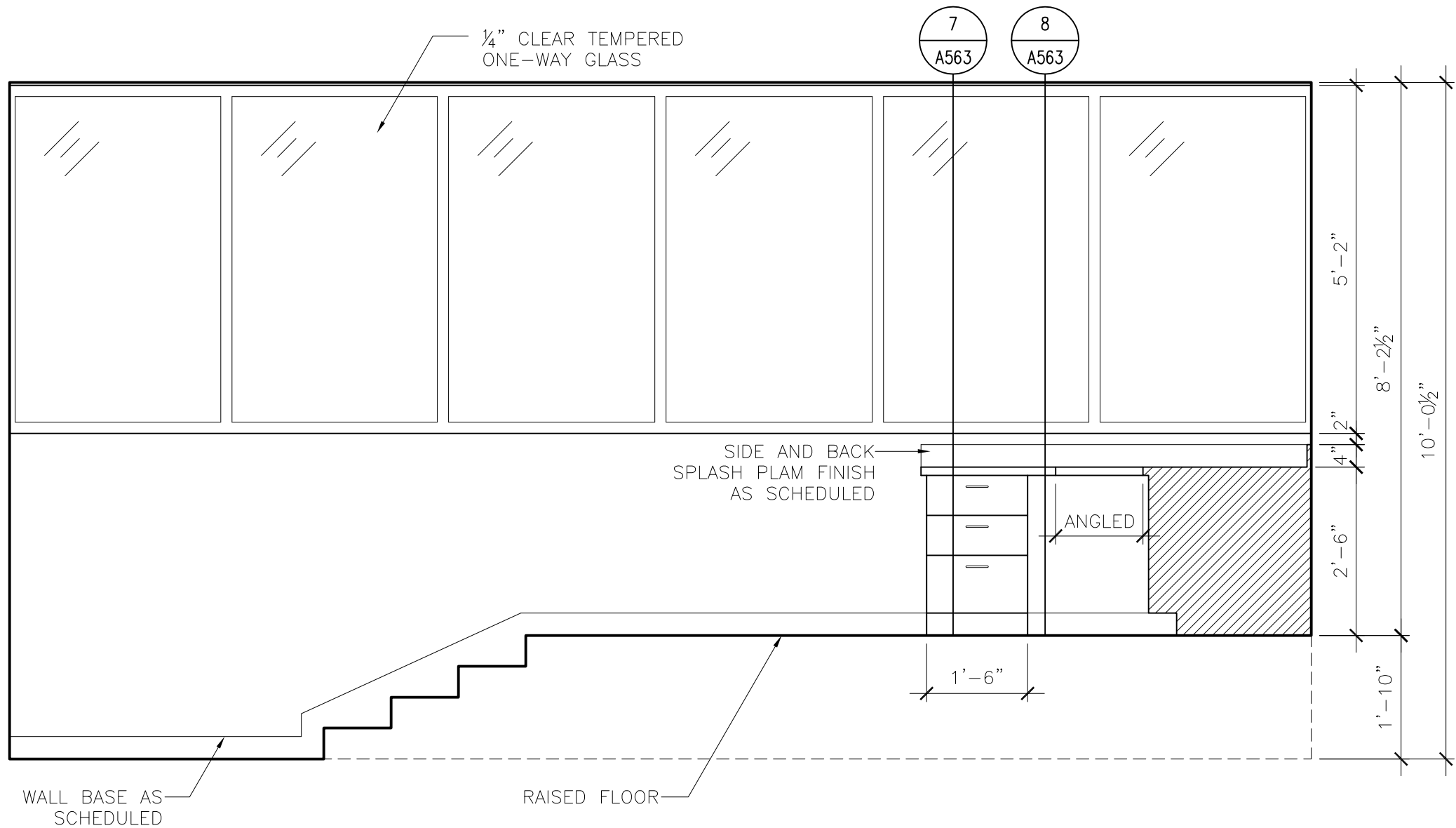
4 ROVER RM ELEVATION (RM 245)  
1/2" = 1'-0"



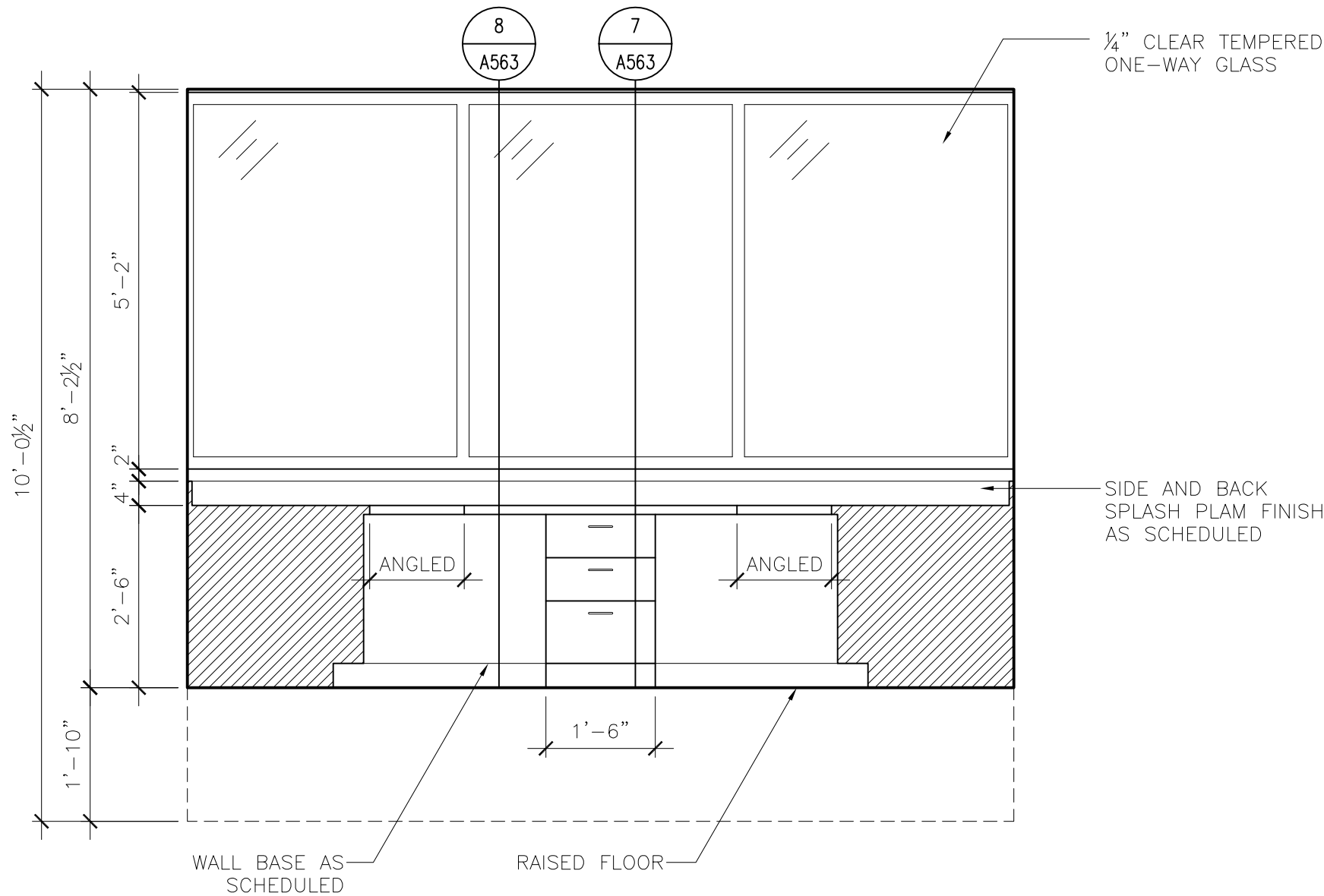
3 SECONDARY X-RAY ELEVATION (RM 159)  
1/2" = 1'-0"



8 BREAK RM ELEVATION (RM 156)  
1/2" = 1'-0"



7 ROVER RM ELEVATION (RM 245)  
1/2" = 1'-0"



6 ROVER RM ELEVATION (RM 245)  
1/2" = 1'-0"



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NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
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**213-1882-091**

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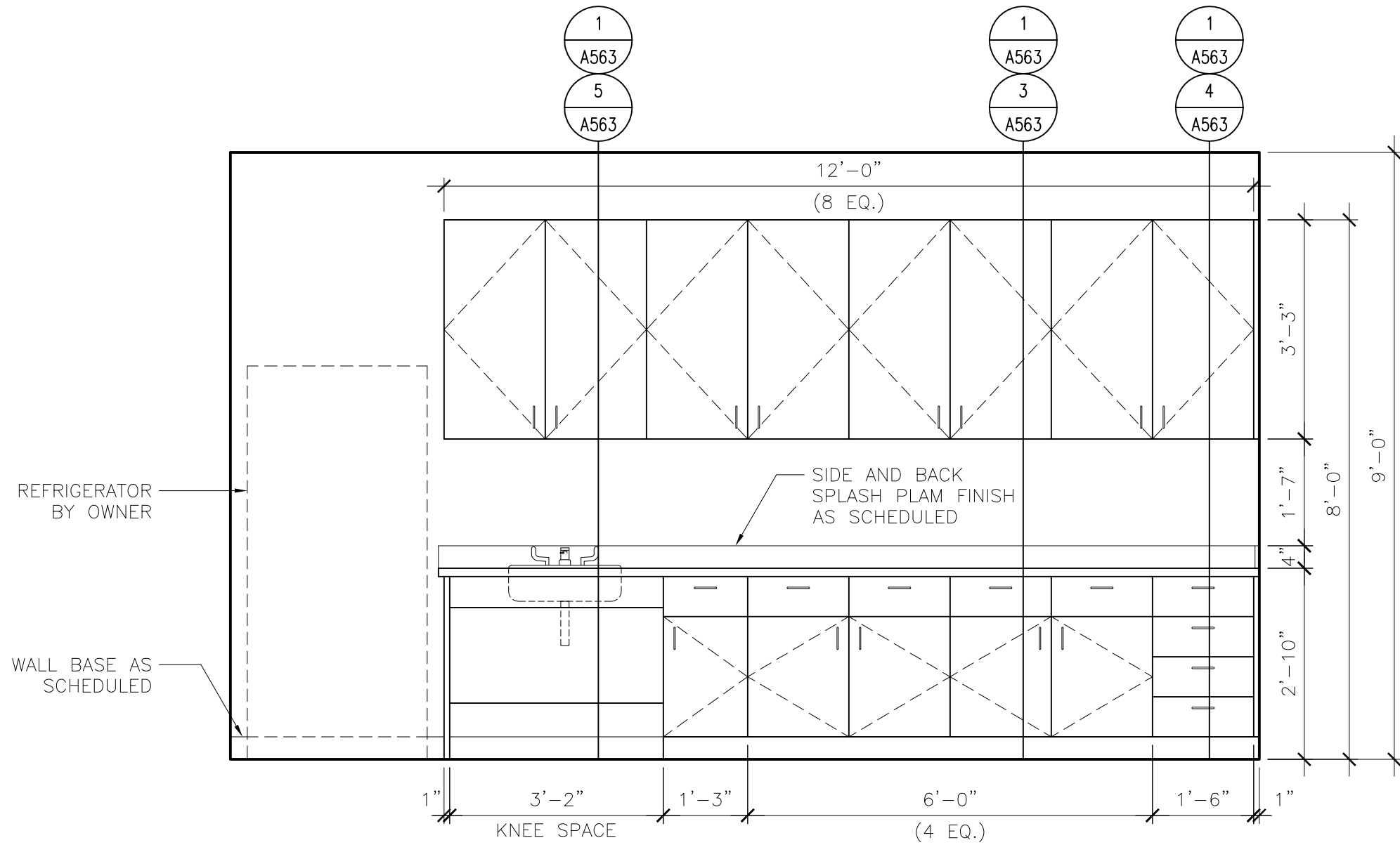
**SHEET TITLE**

**MILLWORK  
ELEVATIONS  
AND  
DETAILS**

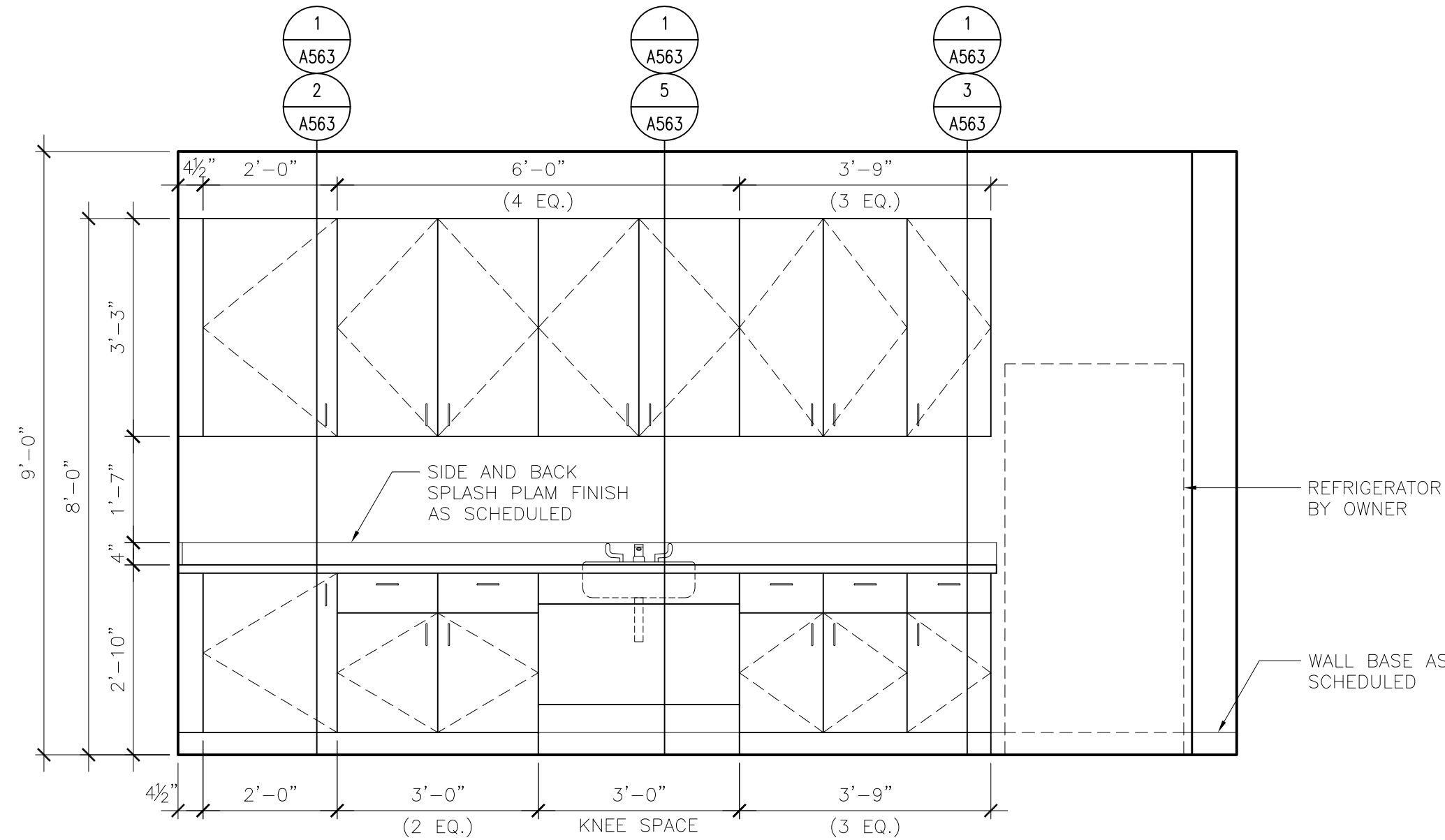
**SHEET NUMBER**

**A562**

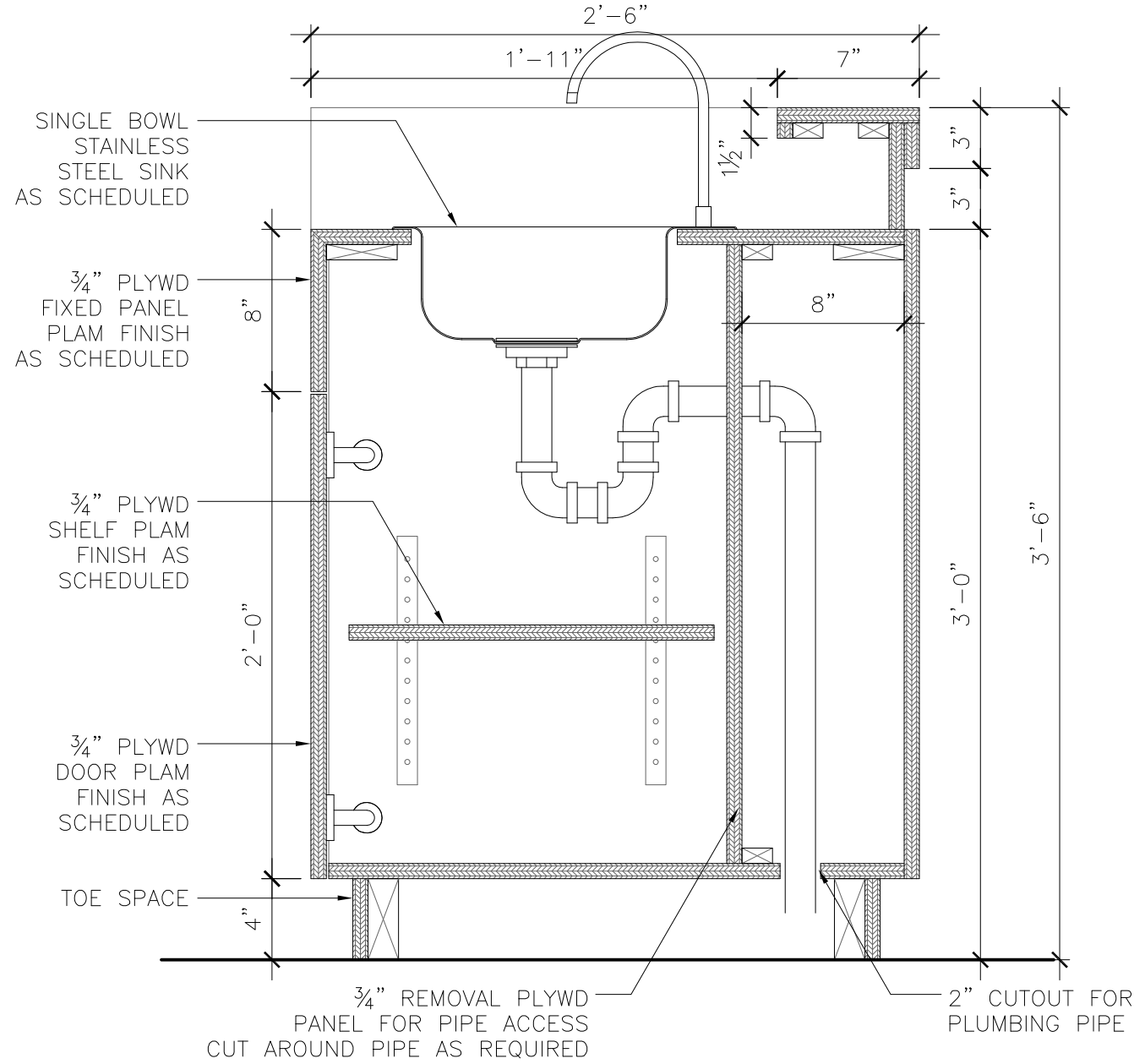
**90% NOT FOR  
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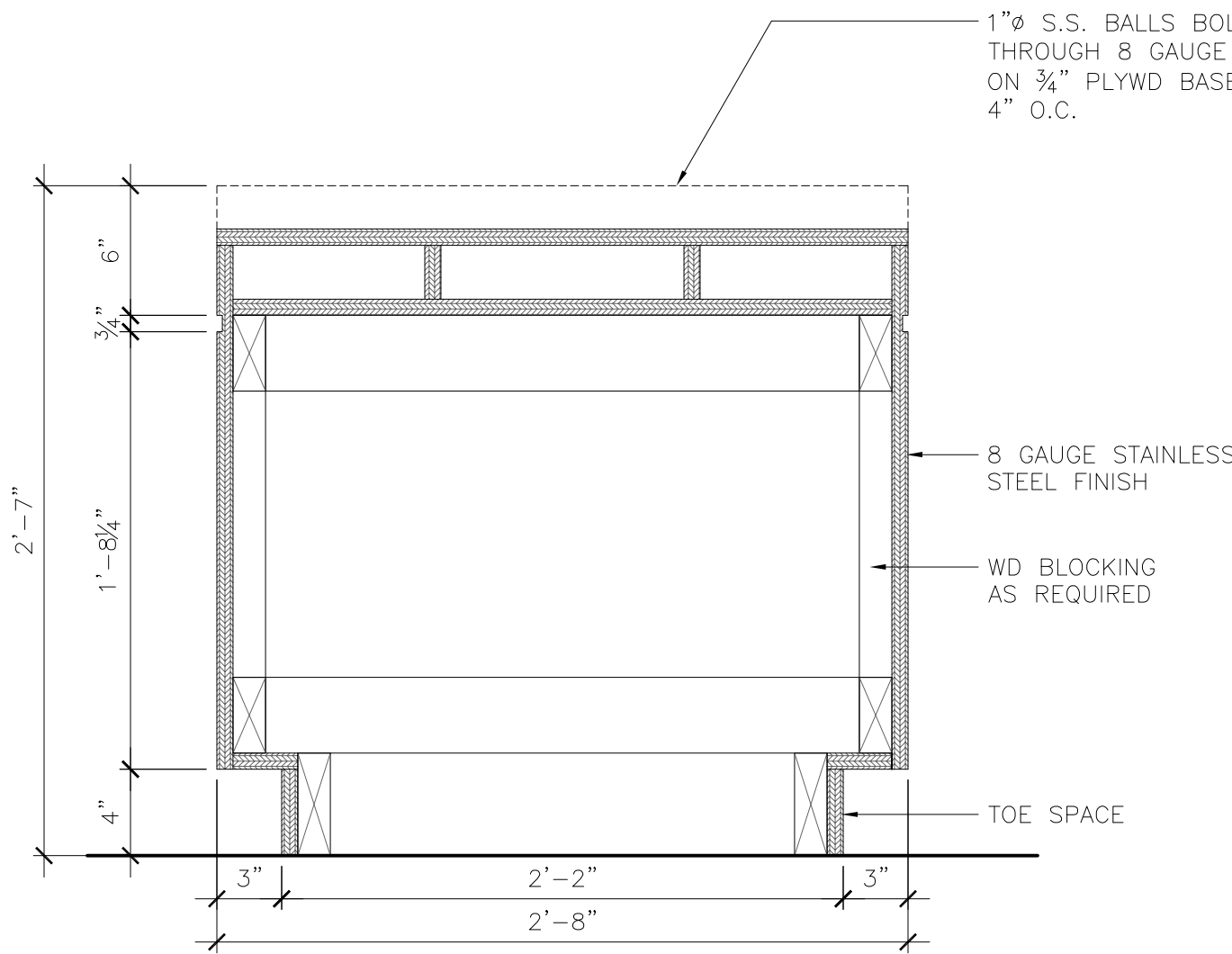
**2 OPEN OFFICE ELEVATION (RM 328)**  
1/2" = 1'-0"



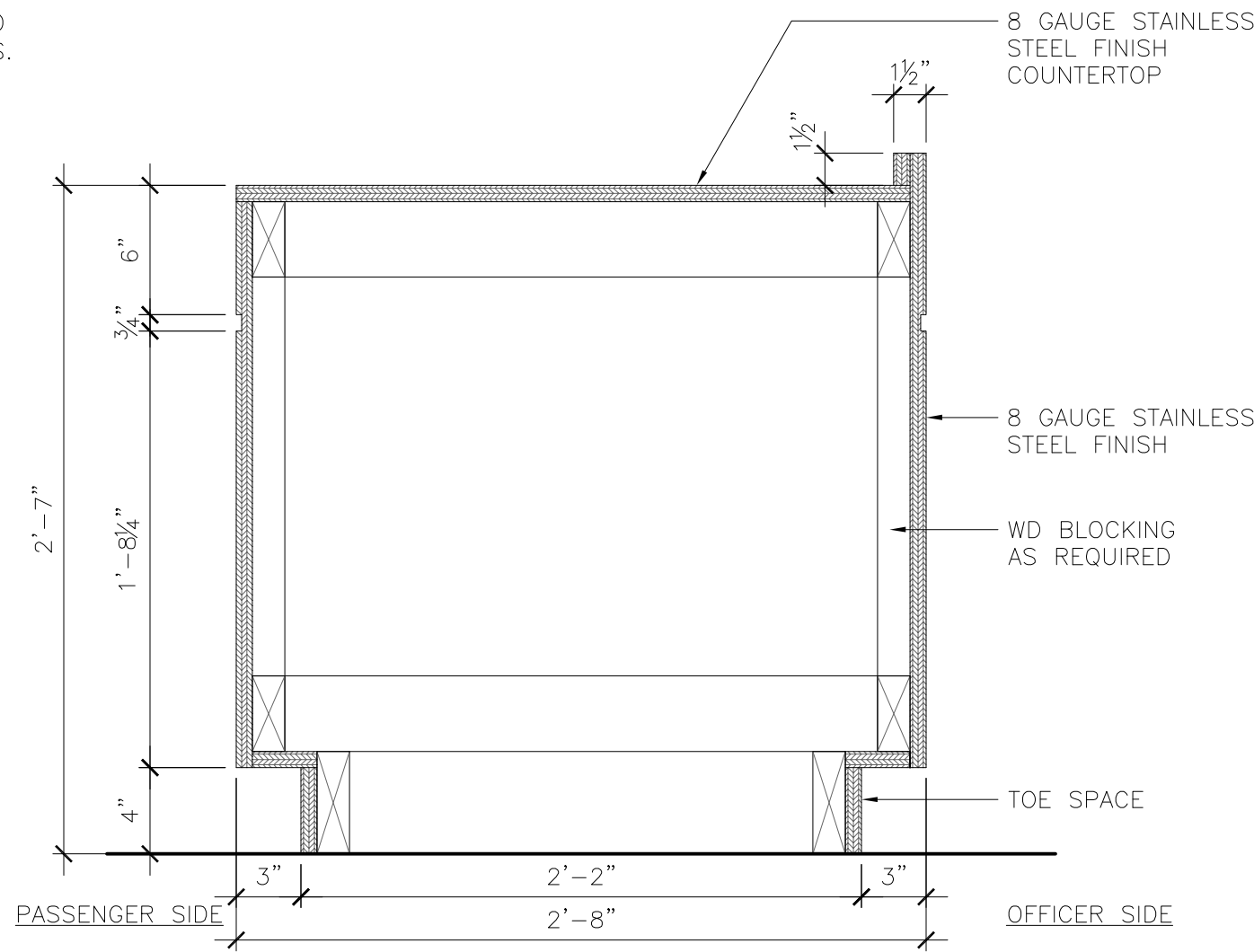
**1 BREAK RM ELEVATION (RM 310)**  
1/2" = 1'-0"



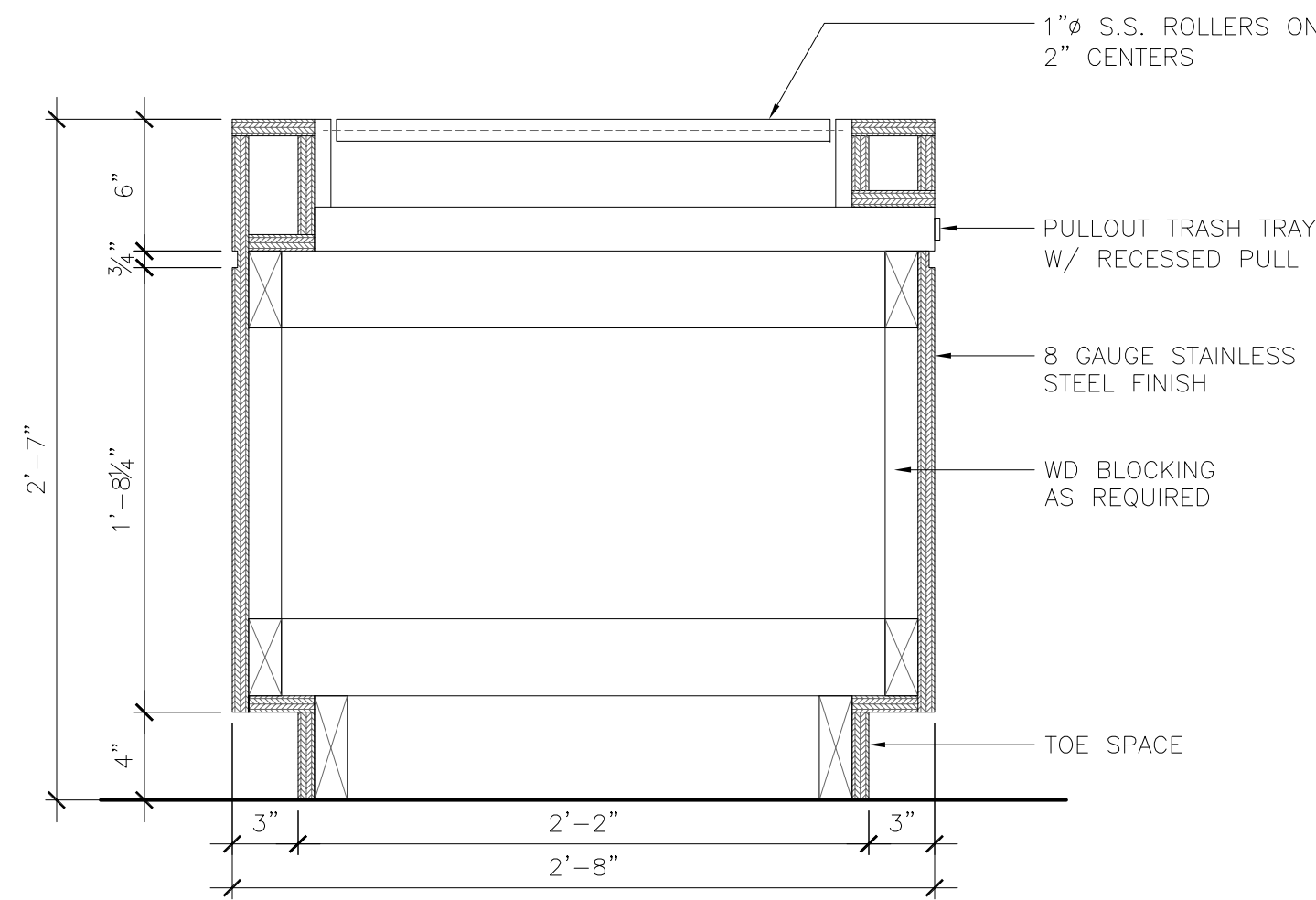
**7 S.S. SINK COUNTER SECTION**  
1-1/2" = 1'-0"



**6 BAGGAGE X-RAY INSPECTION STATION SECTION**  
1-1/2" = 1'-0"

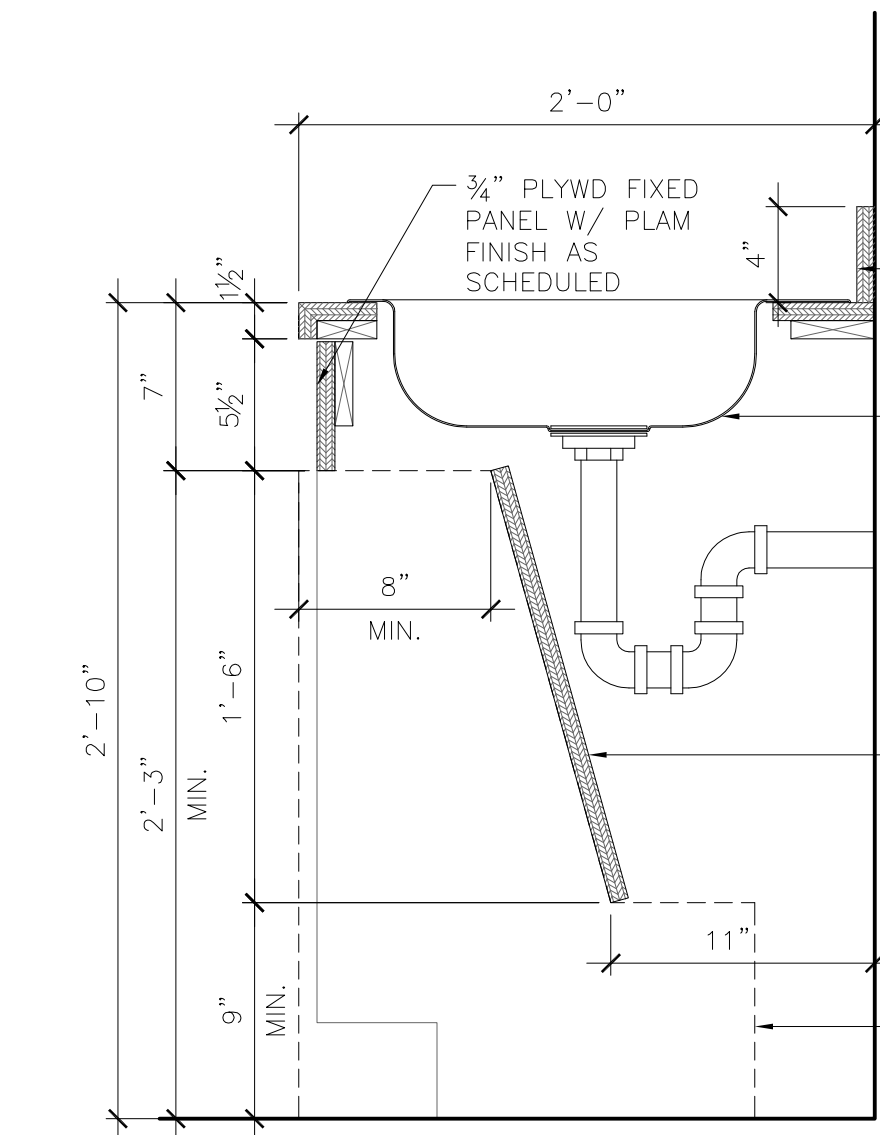


**5 BAGGAGE X-RAY INSPECTION STATION SECTION**  
1-1/2" = 1'-0"

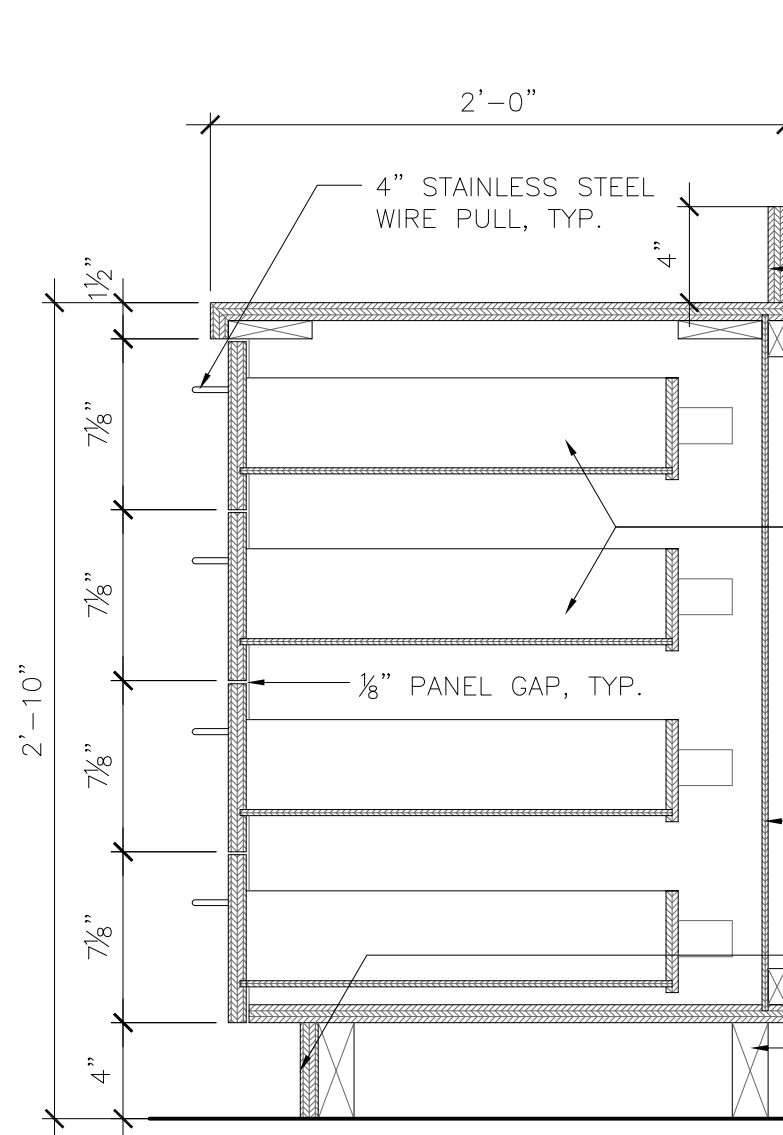


**4 BAGGAGE X-RAY INSPECTION STATION SECTION**  
1-1/2" = 1'-0"

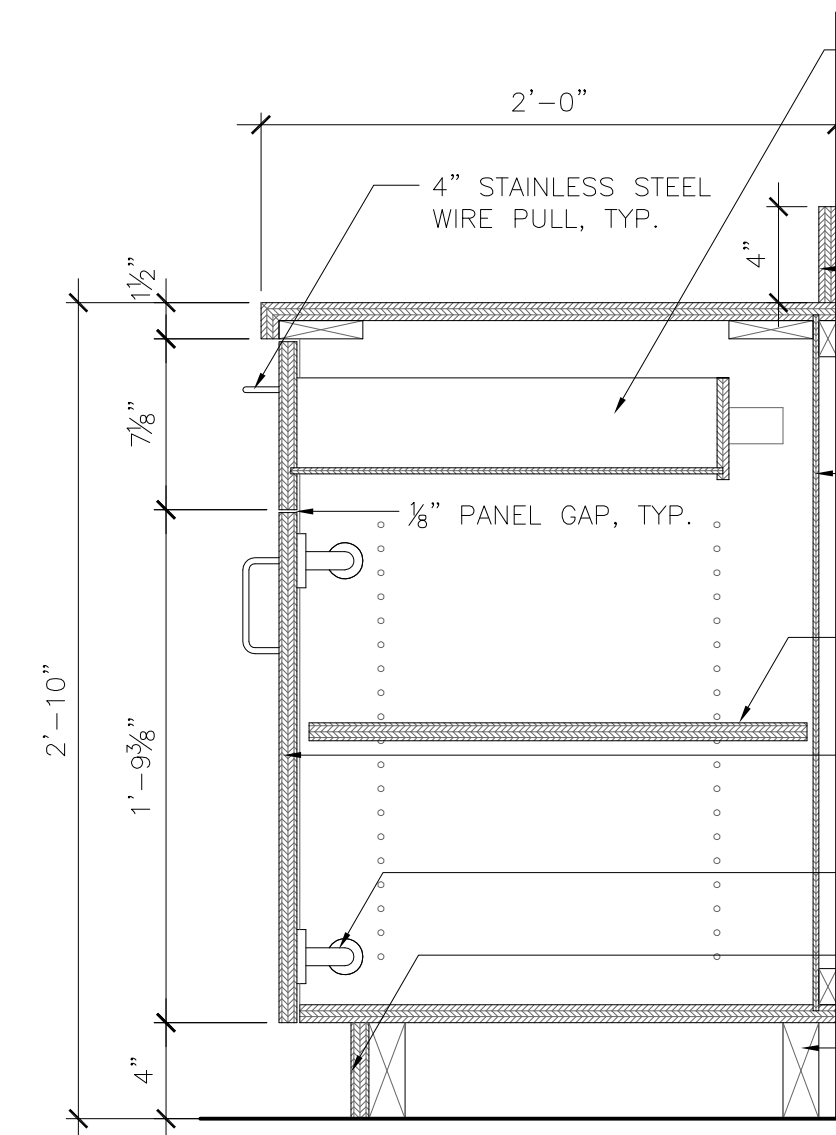




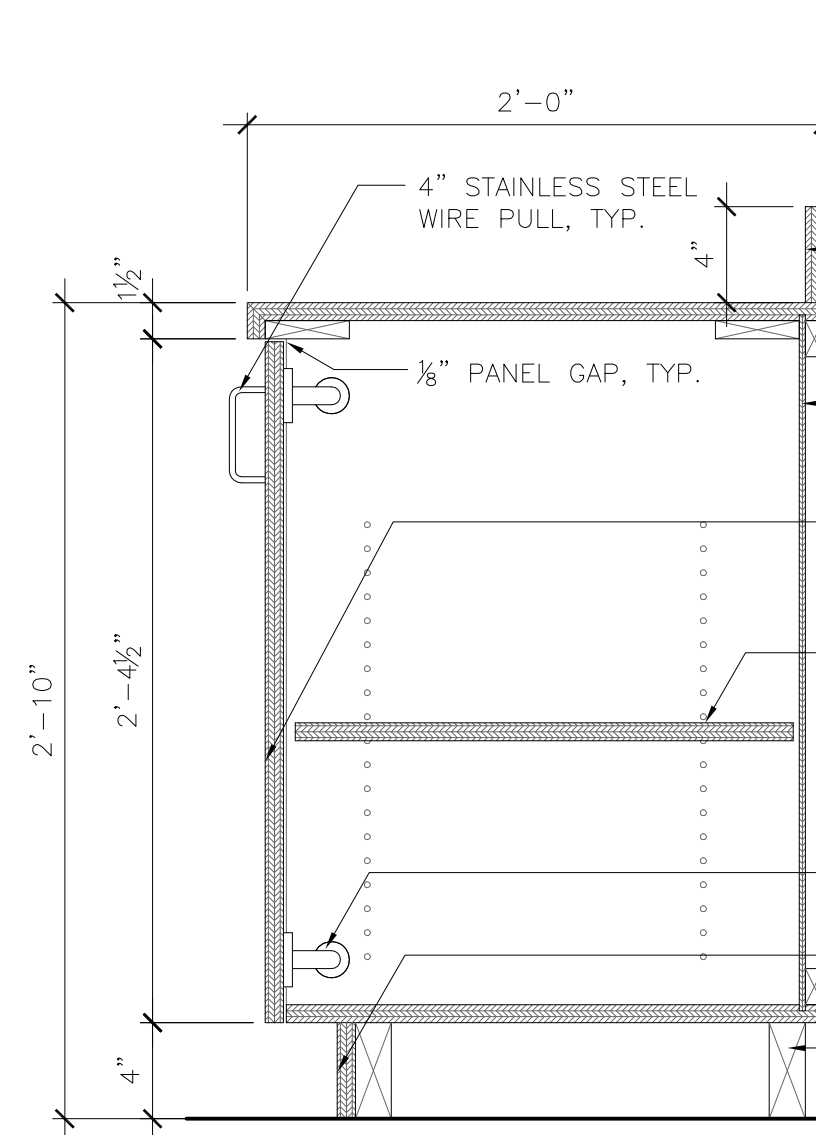
5 BASE CABINET/SINK SECTION  
1-1/2" = 1'-0"



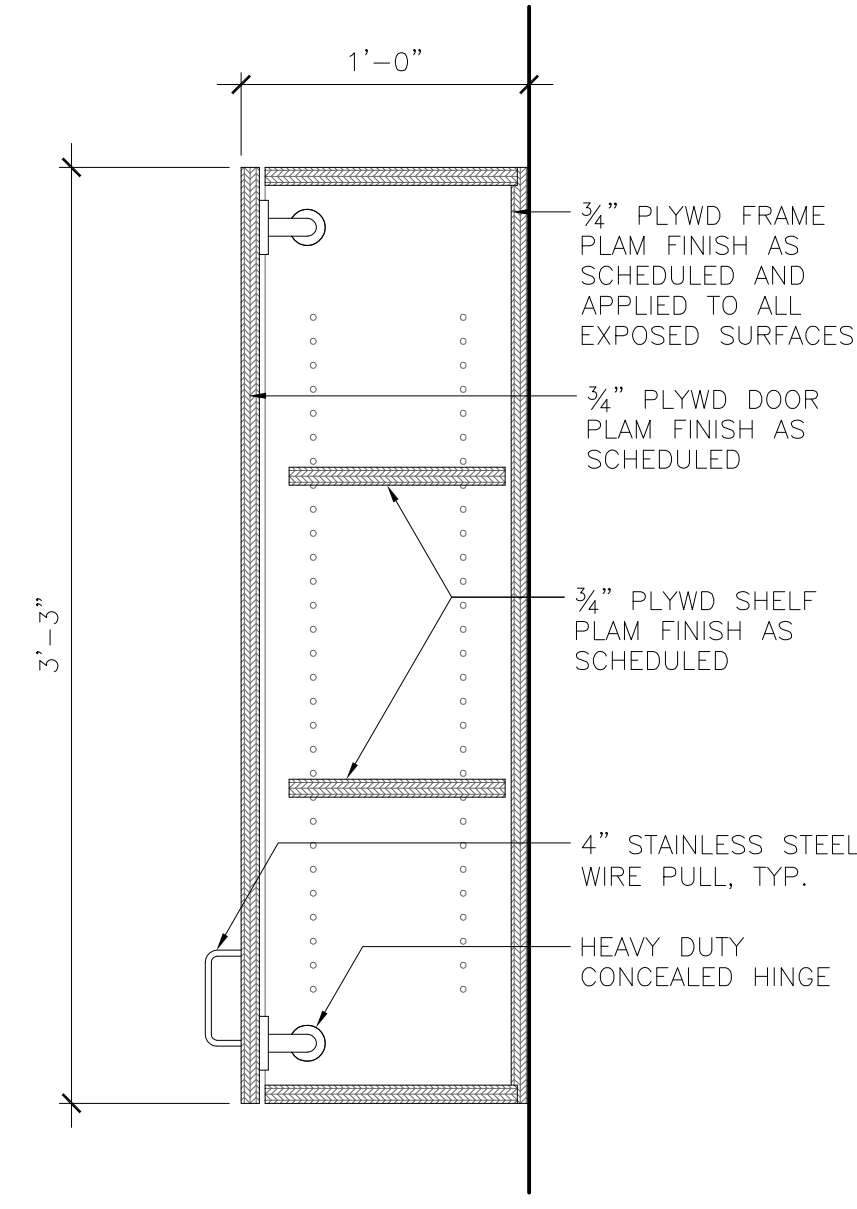
4 BASE CABINET SECTION  
1-1/2" = 1'-0"



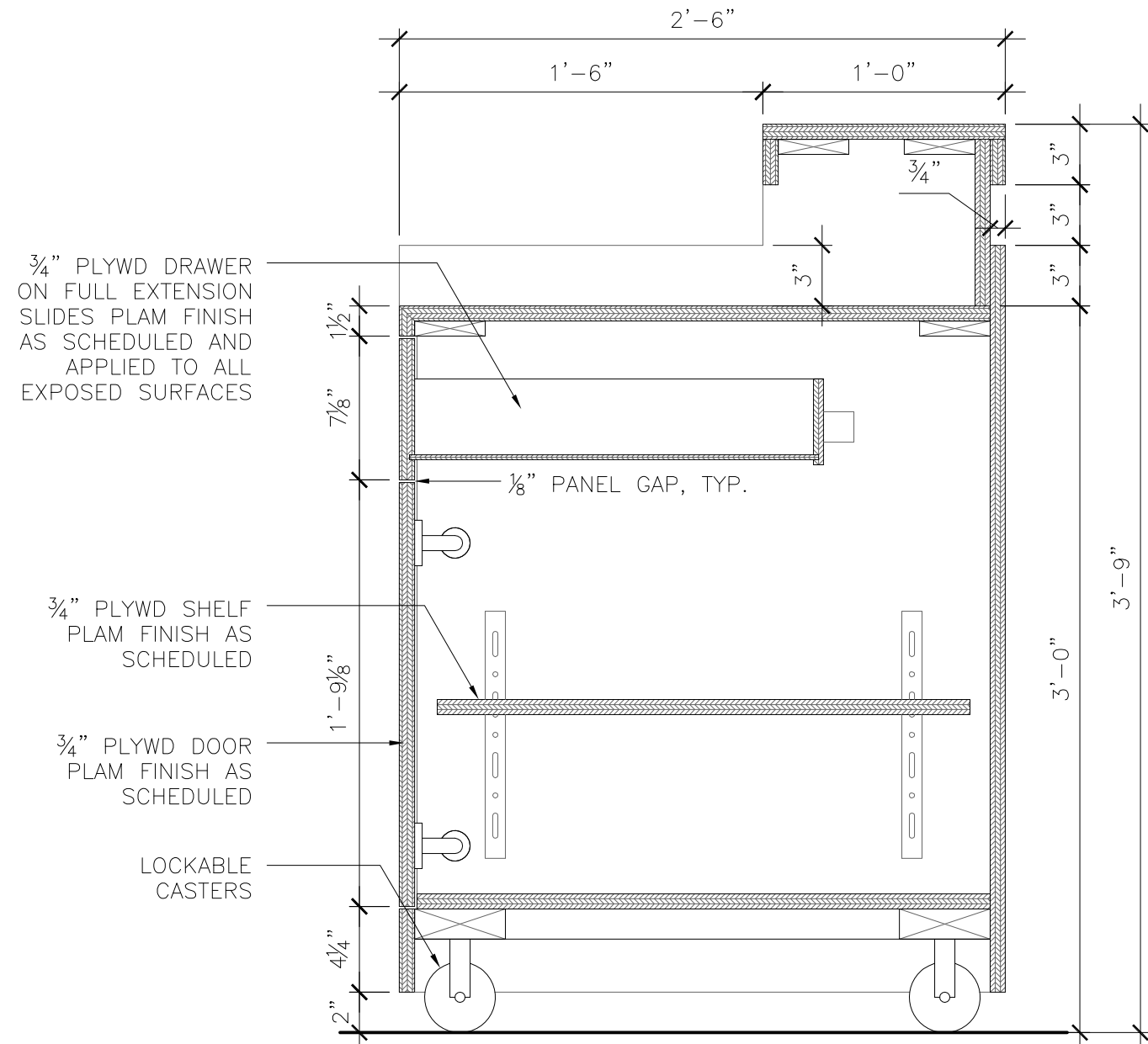
3 BASE CABINET SECTION  
1-1/2" = 1'-0"



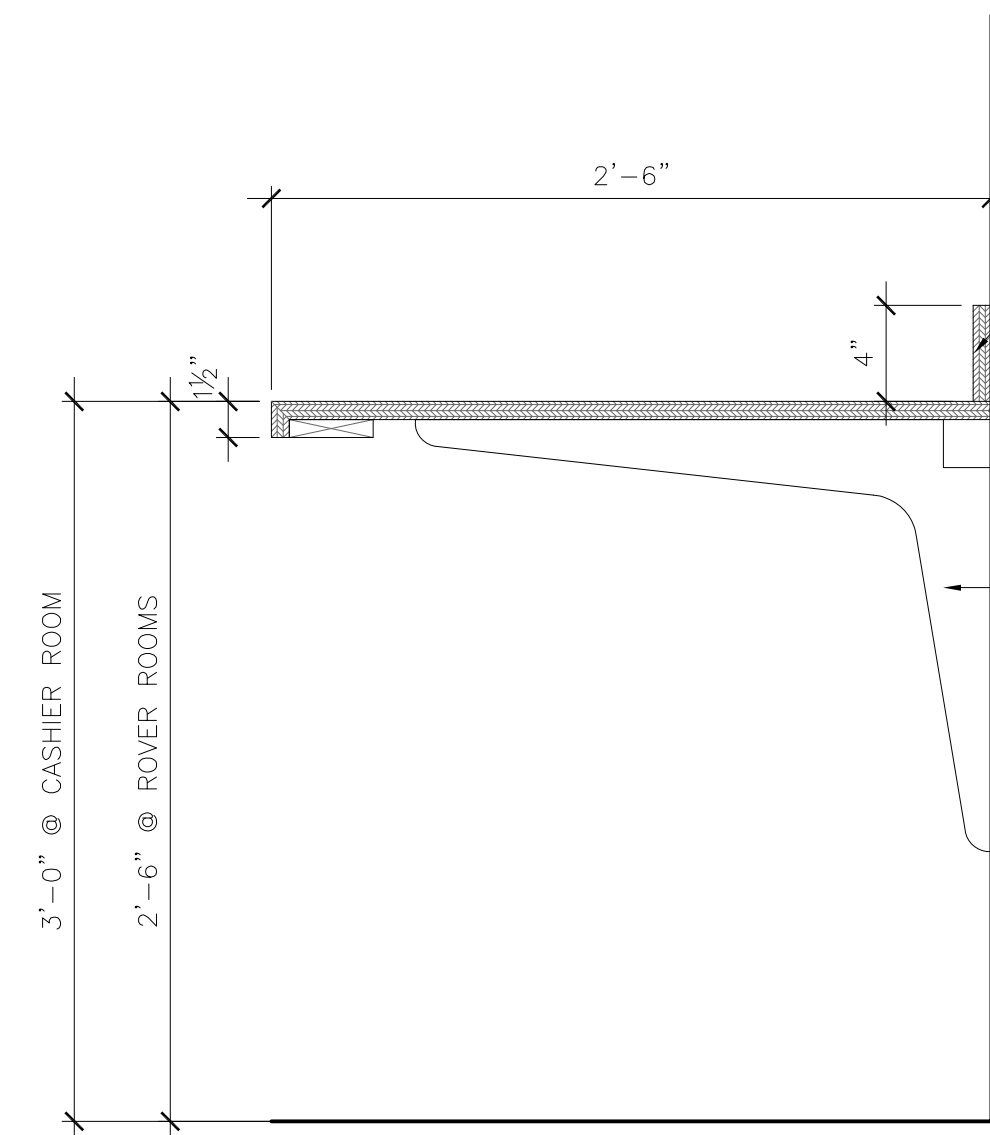
2 BASE CABINET SECTION  
1-1/2" = 1'-0"



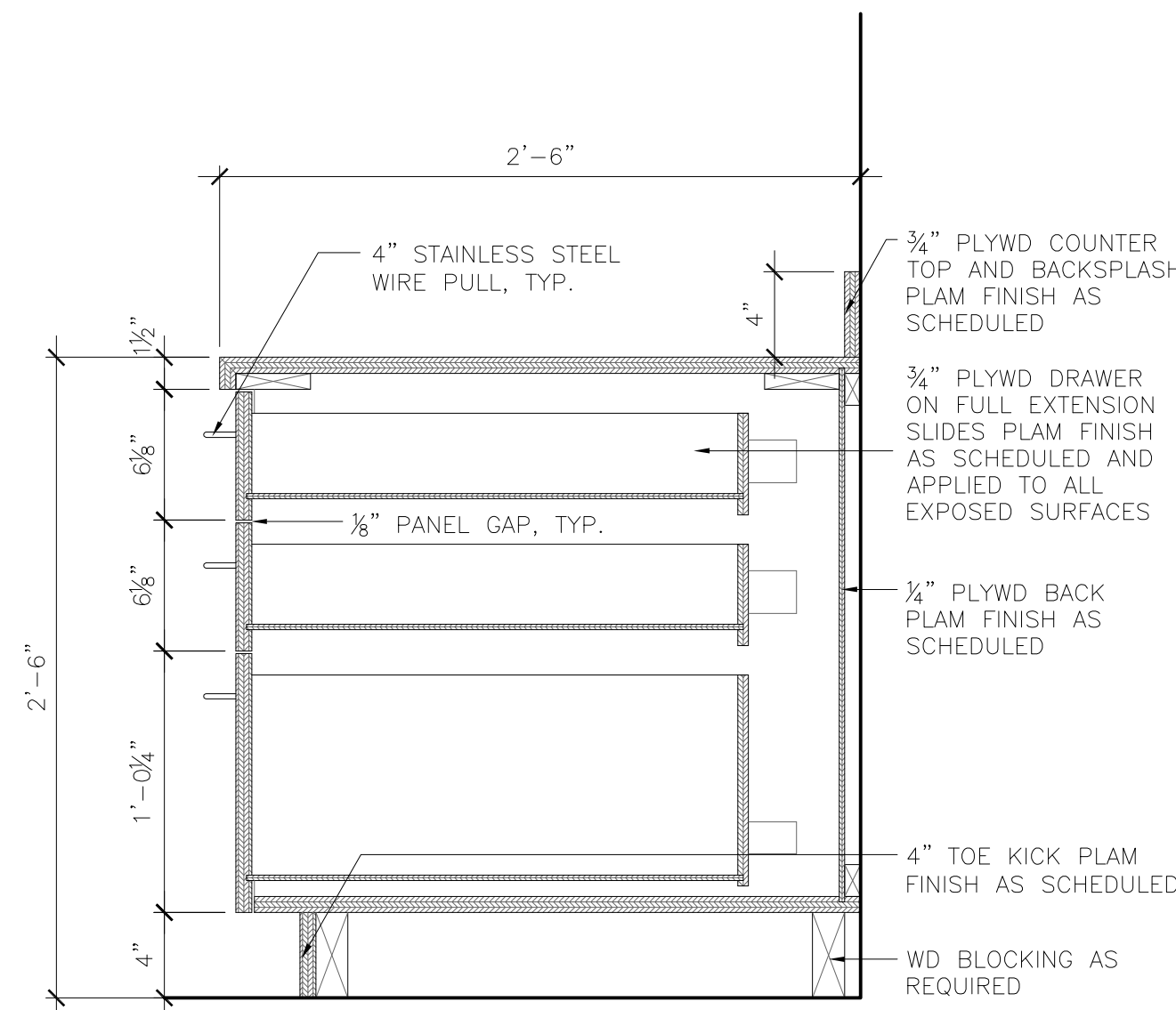
1 UPPER CABINET SECTION  
1-1/2" = 1'-0"



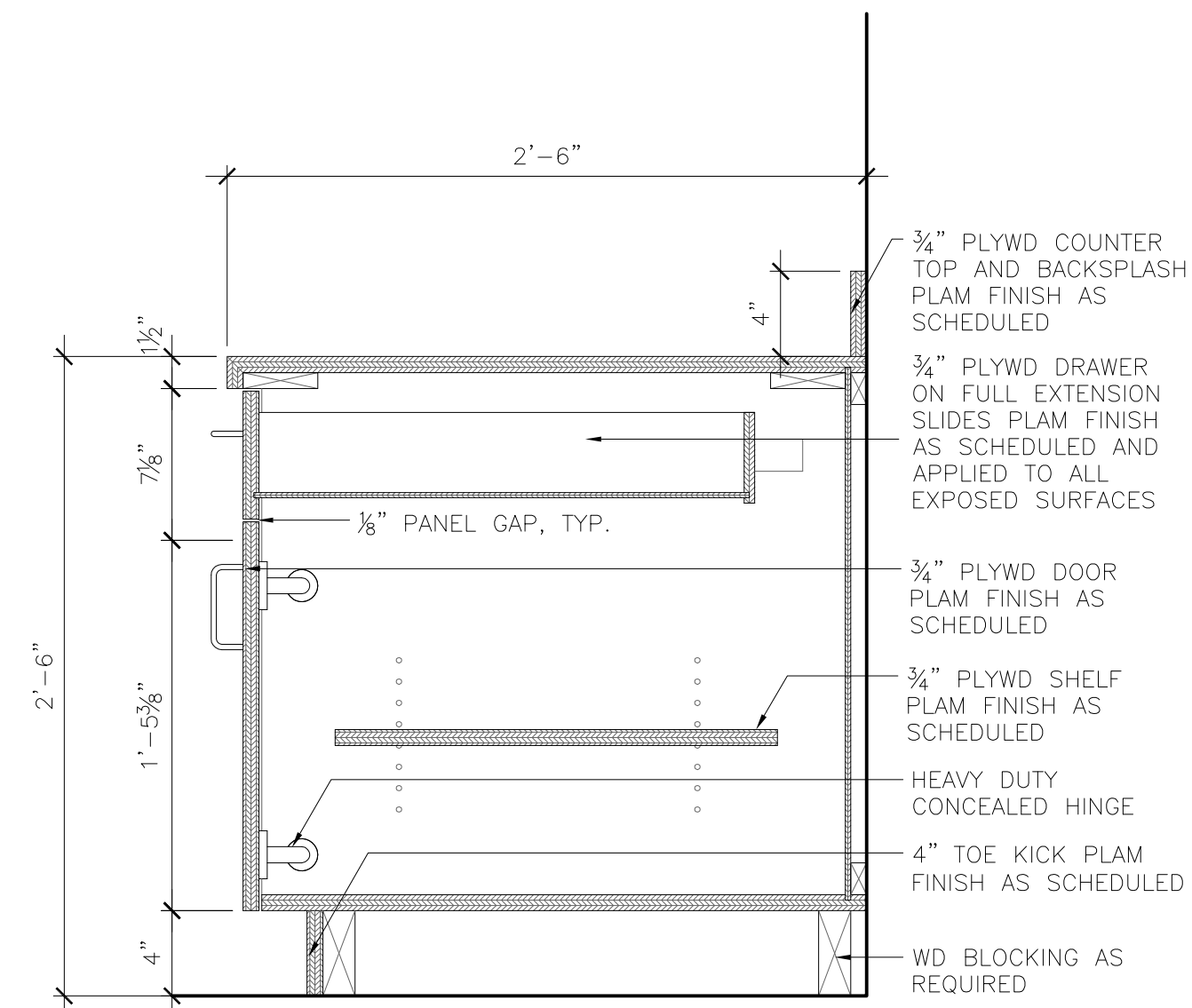
9 MOBILE PODIUM SECTION  
1-1/2" = 1'-0"



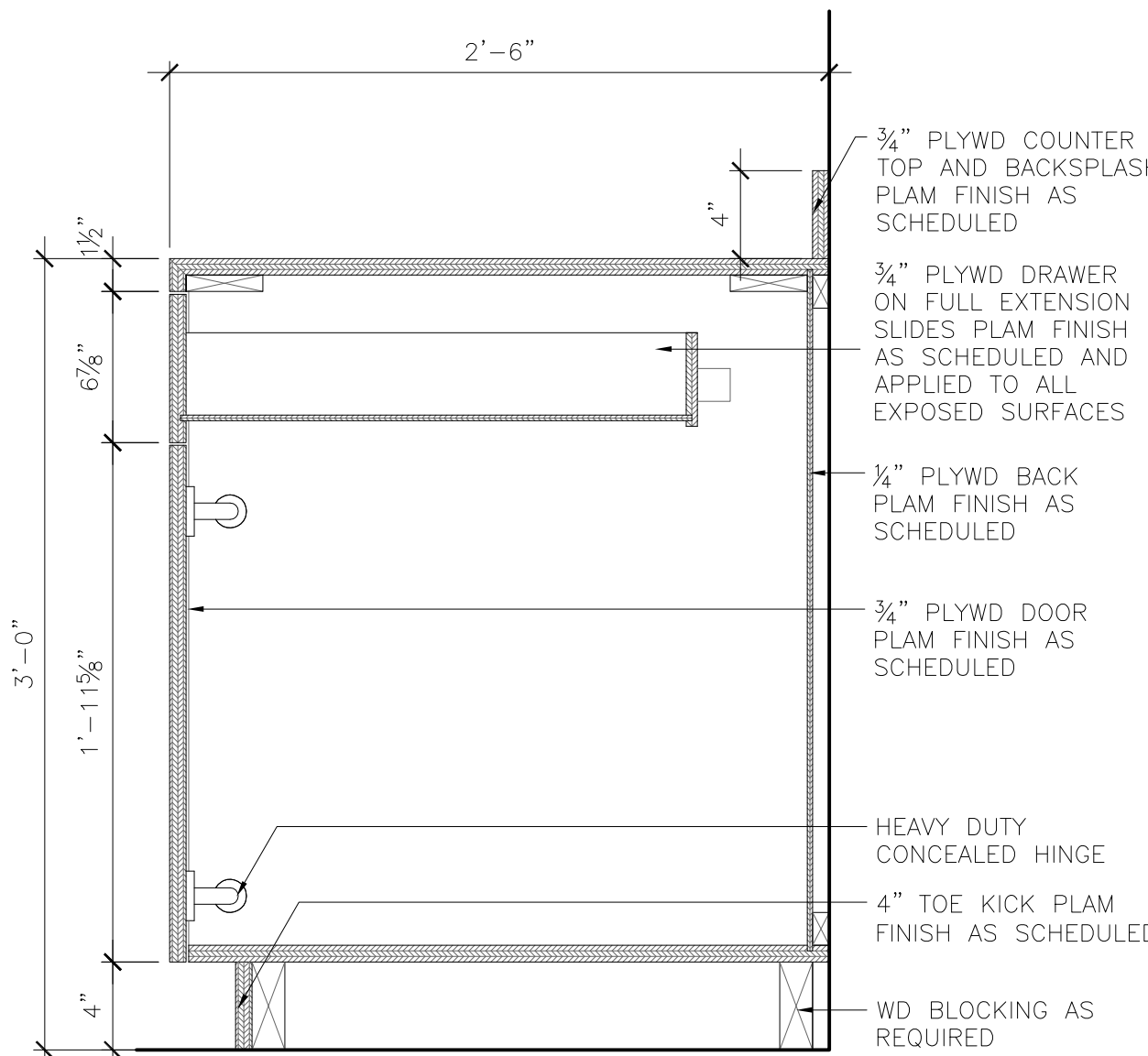
8 COUNTERTOP SECTION  
1-1/2" = 1'-0"



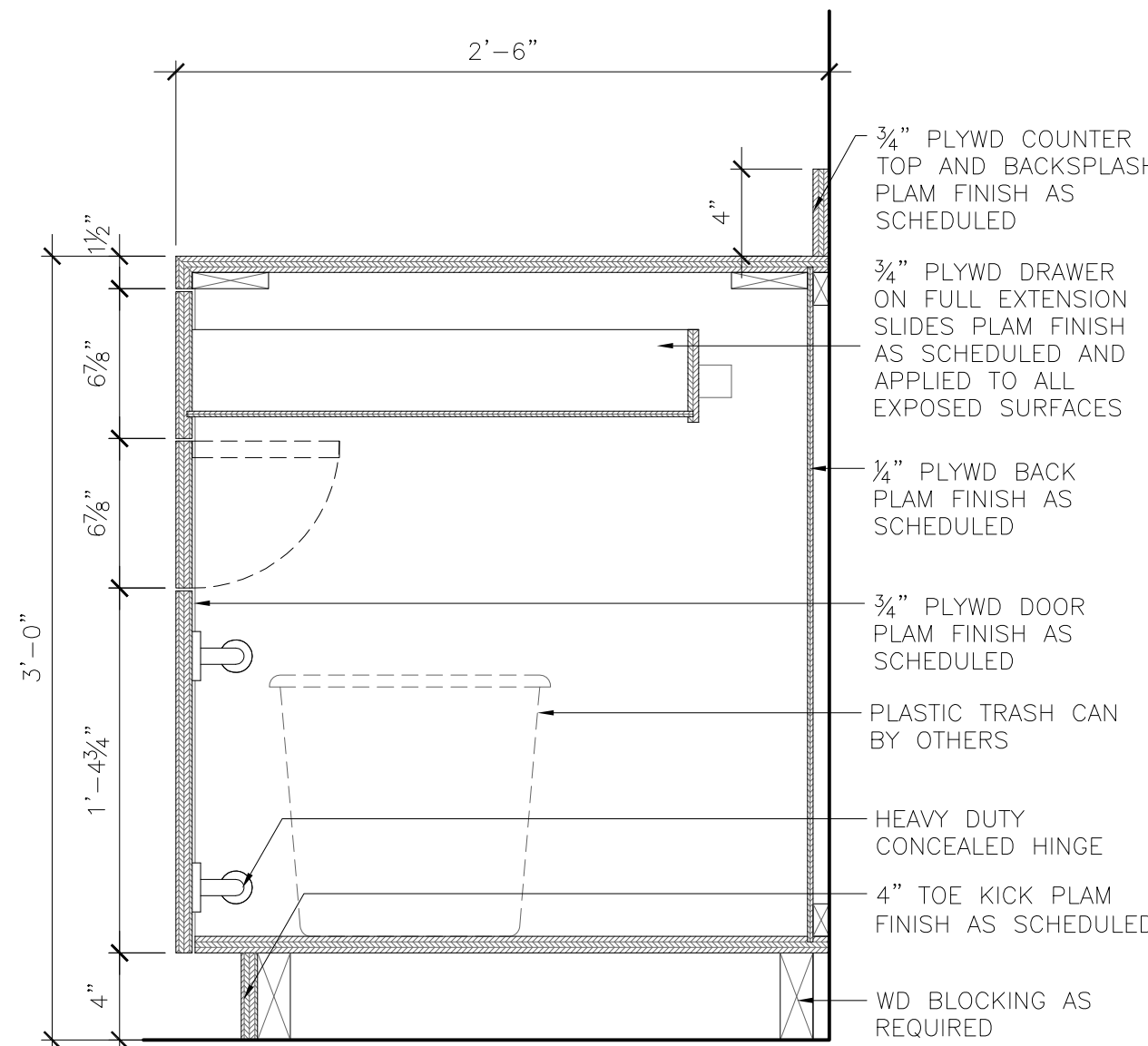
7 BASE CABINET SECTION  
1-1/2" = 1'-0"



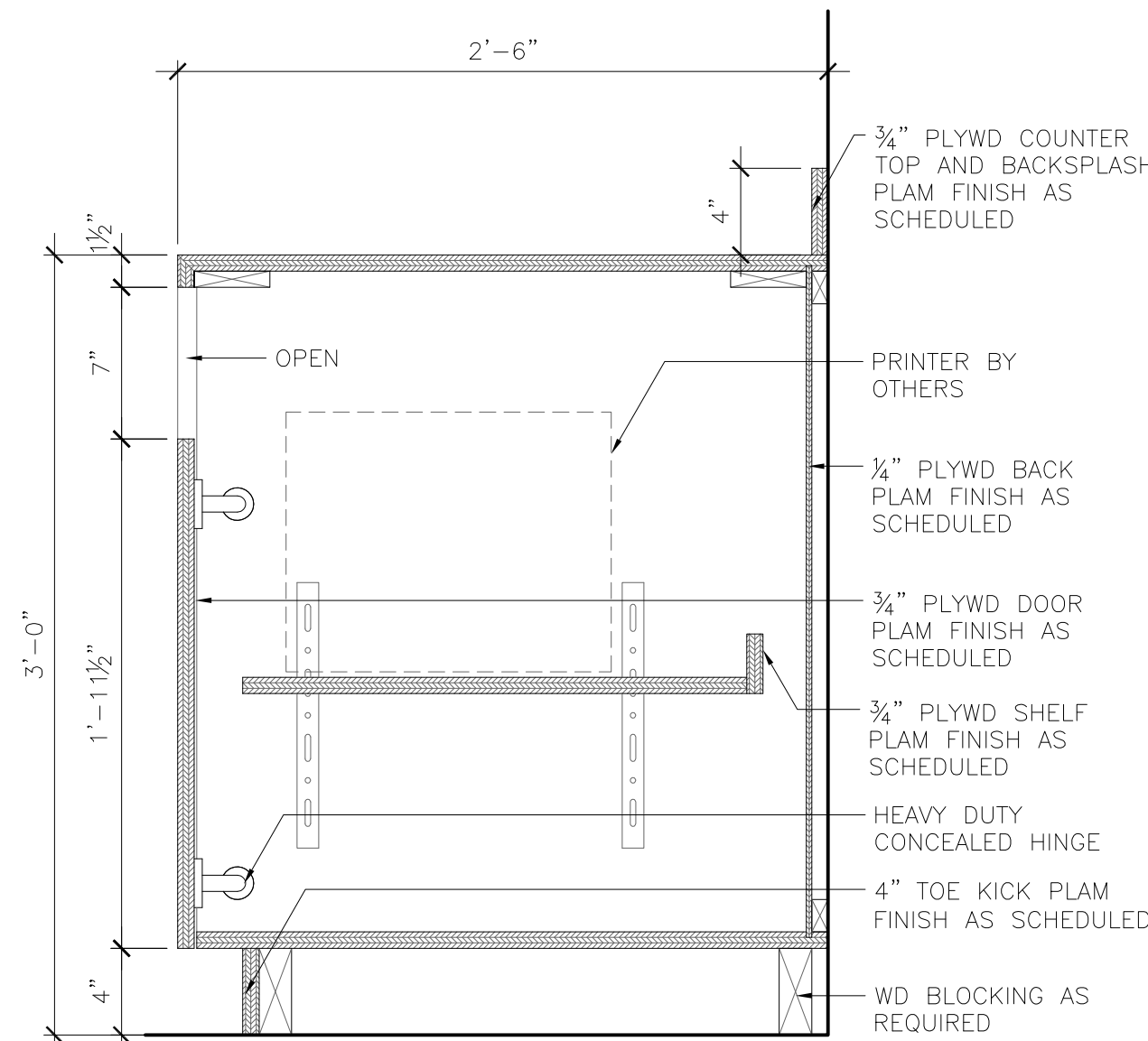
6 BASE CABINET SECTION  
1-1/2" = 1'-0"



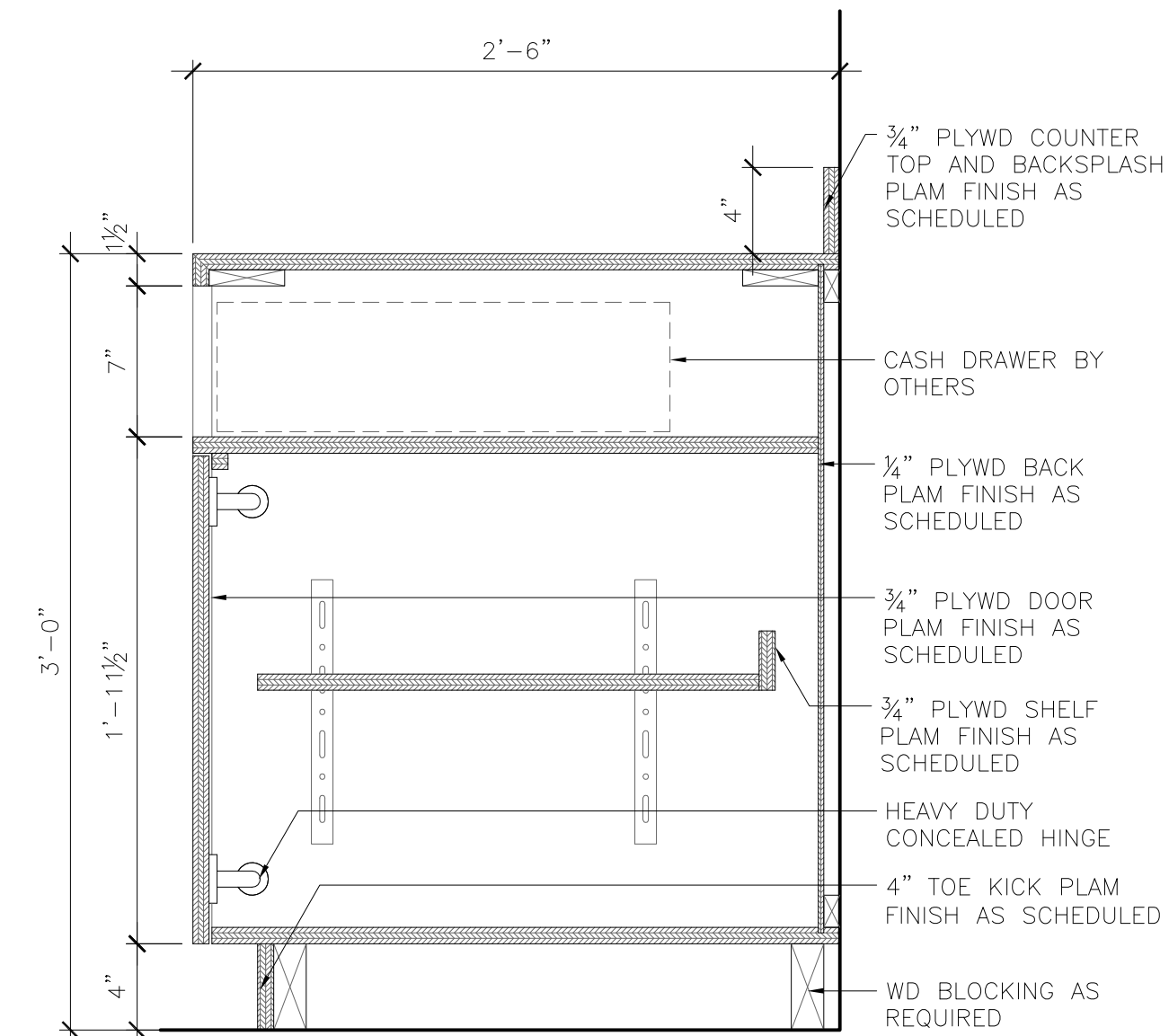
13 CASHIER BASE CABINET SECTION  
1-1/2" = 1'-0"



12 CASHIER BASE CABINET SECTION  
1-1/2" = 1'-0"



11 CASHIER BASE CABINET SECTION  
1-1/2" = 1'-0"



10 CASHIER BASE CABINET SECTION  
1-1/2" = 1'-0"

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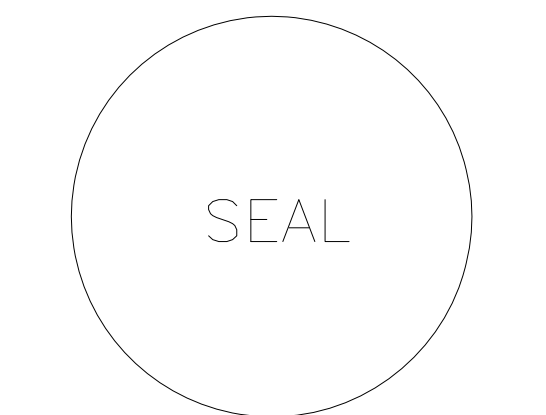
Interior Architects:  
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11 E Superior Street Suite 340, Duluth MN 55802  
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Landscaping Consultants:  
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2432 East First Street, Duluth MN 55812  
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**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: VO  
DESIGNED BY: SBS/TC

A&P PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**MILLWORK  
DETAILS**

**SHEET NUMBER**  
**A563**

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**CONSULTANTS**

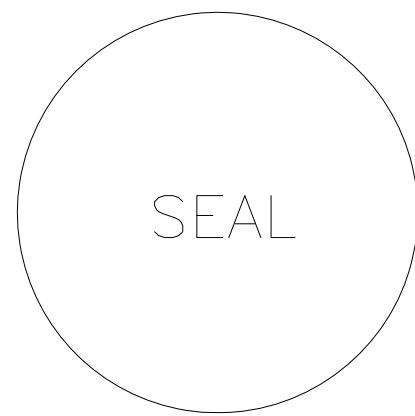
Interior Architects:  
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NO.	DESCRIPTION	DATE

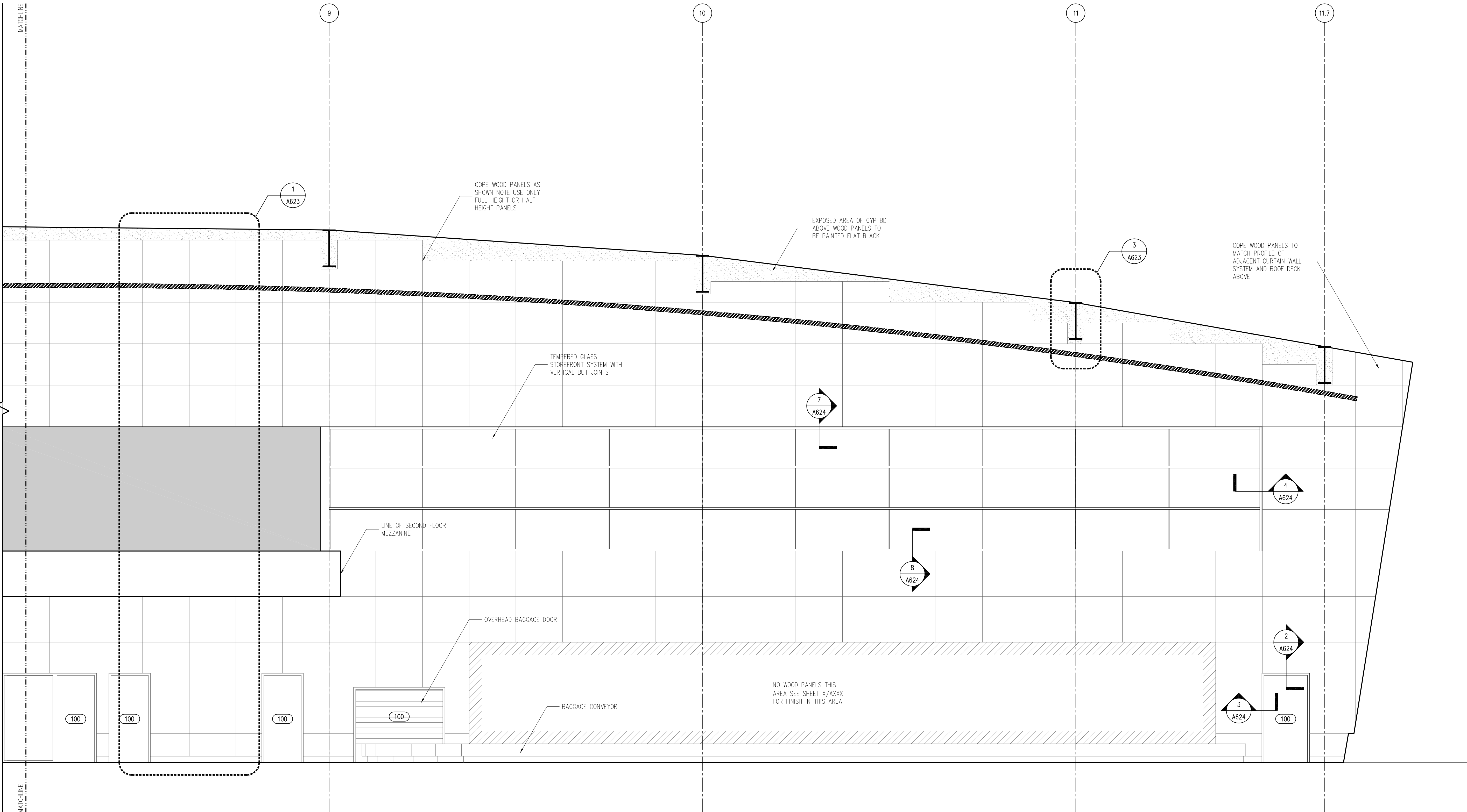
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
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**SHEET TITLE**  
**INTERIOR  
ELEVATIONS**

**SHEET NUMBER**  
**A601**

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CONSTRUCTION**



**1** HOLDROOM ELEVATION SOUTH  
1/4" = 1'-0"



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**REVISIONS**

NO.	DESCRIPTION	DATE

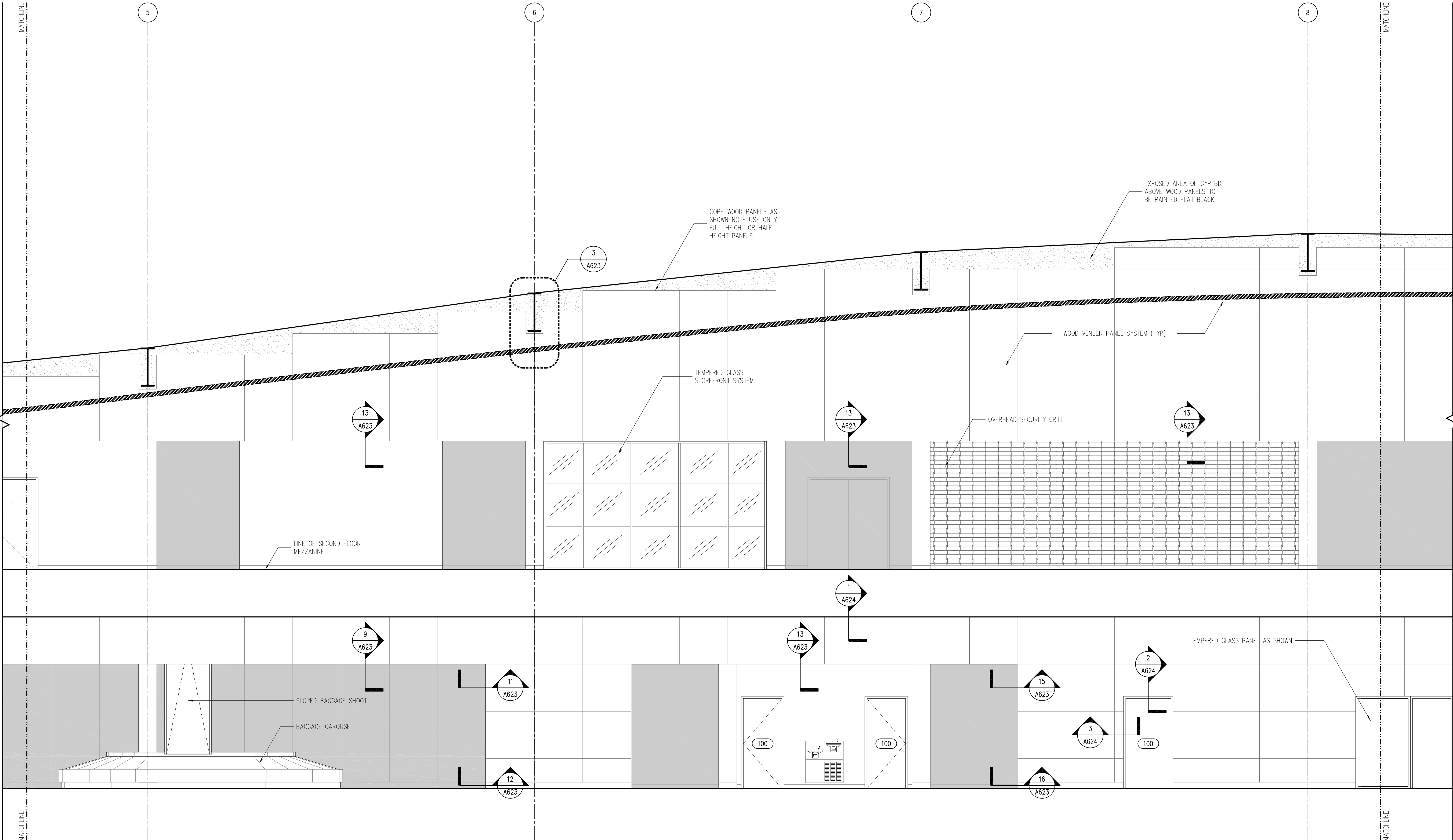
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

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**SHEET TITLE**  
**INTERIOR  
ELEVATIONS**

**SHEET NUMBER**  
**A602**

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CONSTRUCTION**



**1** **HOLDROOM ELEVATION SOUTH**  
1/4" = 1'-0"



**CONSULTANTS**

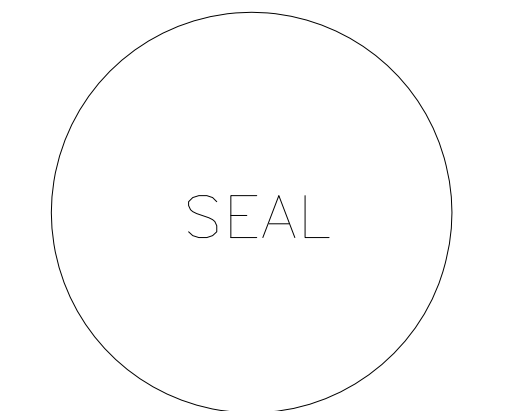
Interior Architects:  
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M/E/P/E Engineers:  
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**REVISIONS**

NO.	DESCRIPTION	DATE

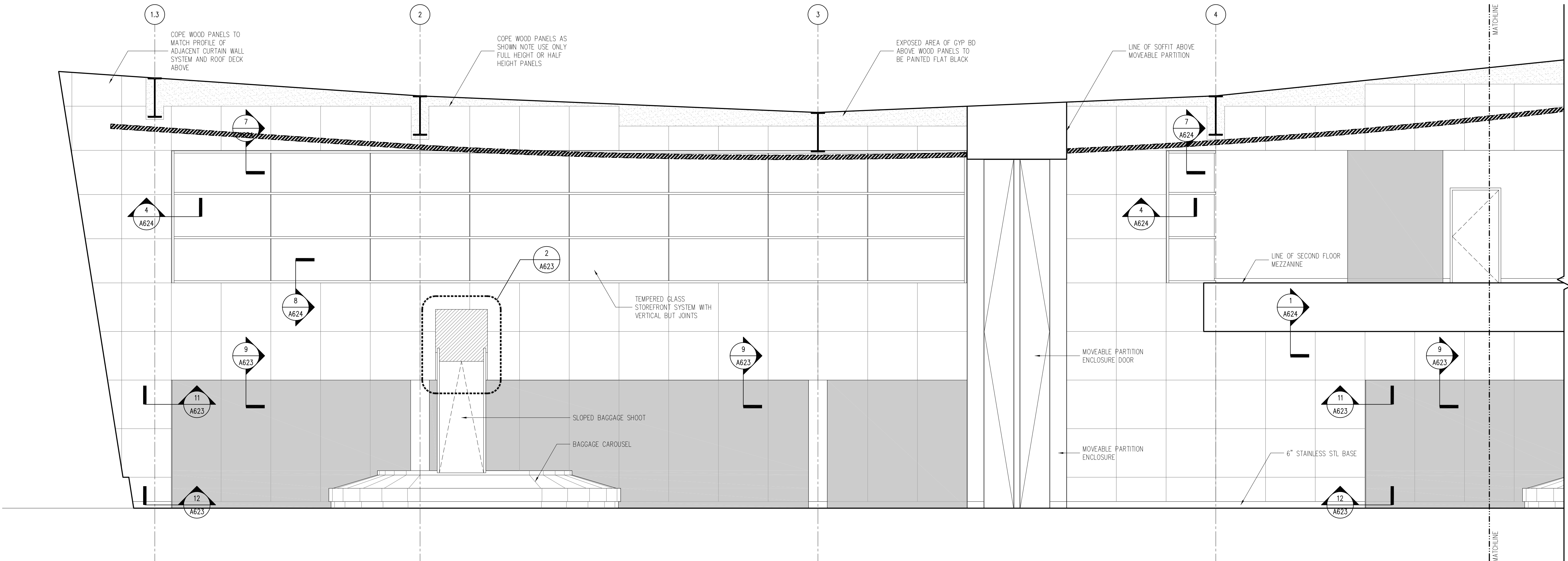
DATE ISSUED: 04-12-10  
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**SHEET TITLE**  
**INTERIOR  
ELEVATIONS**

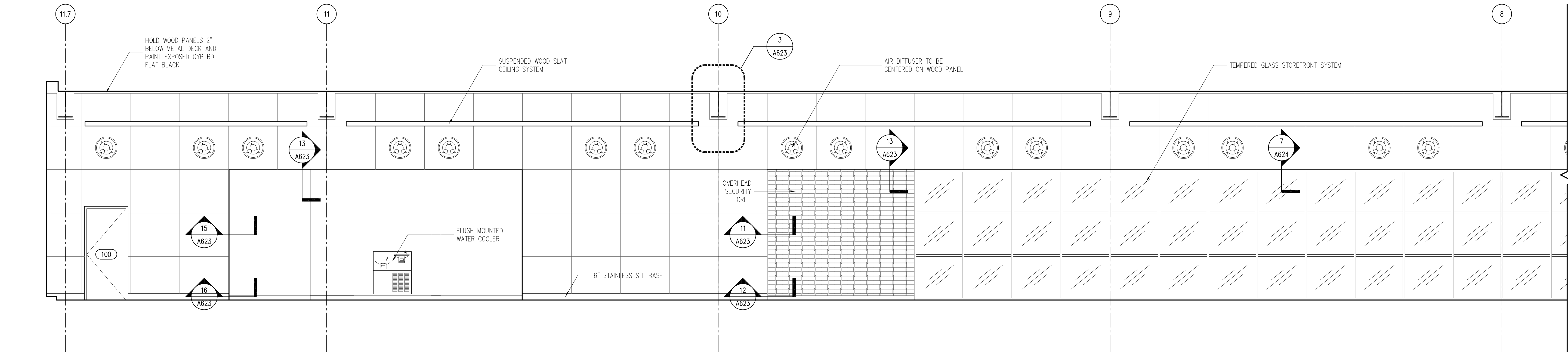
**SHEET NUMBER**  
**A603**

**90% NOT FOR  
CONSTRUCTION**

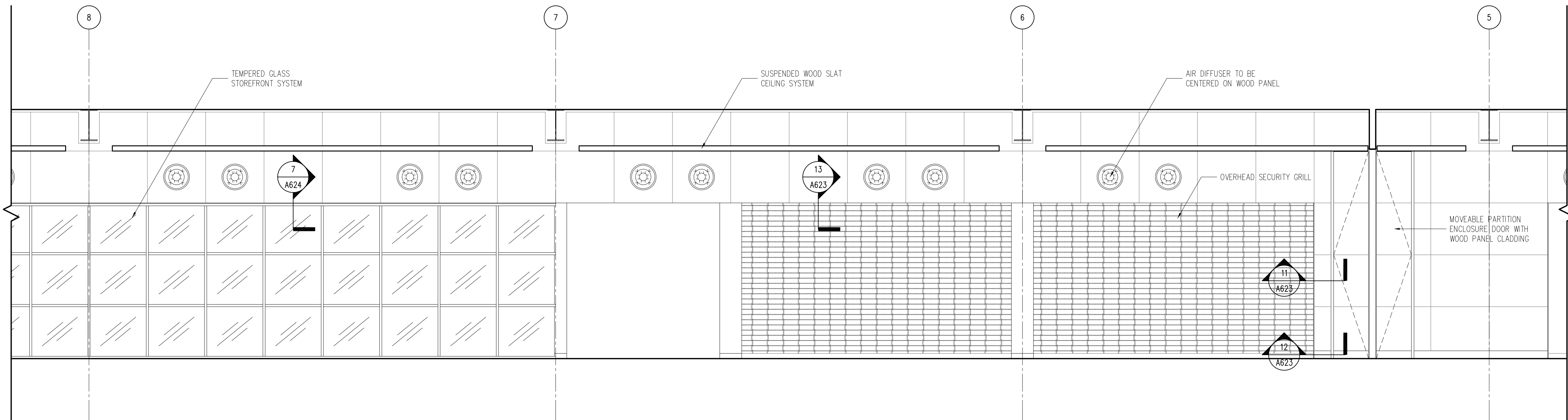


**1** HOLDROOM ELEVATION SOUTH  
1/4" = 1'-0"

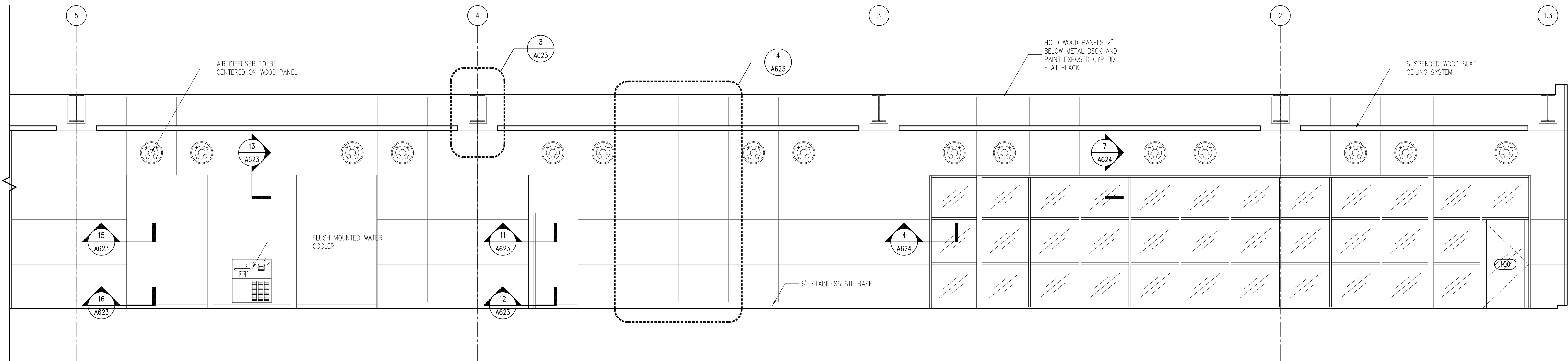




1 HOLDROOM ELEVATION SOUTH  
1/4" = 1'-0"



2 HOLDROOM ELEVATION SOUTH  
1/4" = 1'-0"



3 HOLDROOM ELEVATION SOUTH  
1/4" = 1'-0"

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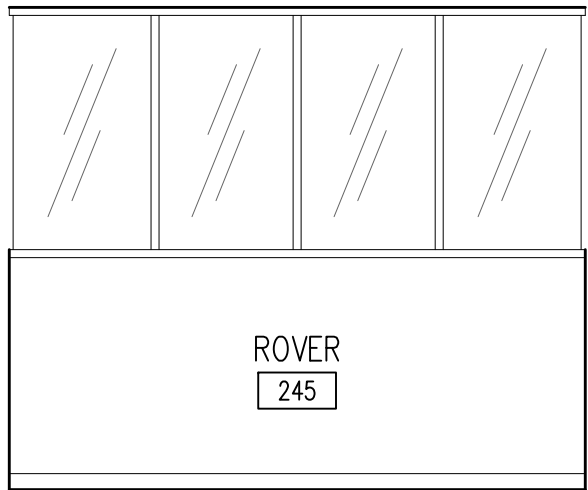
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC  
AIP PROJECT NUMBER  
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**INTERIOR  
ELEVATIONS**

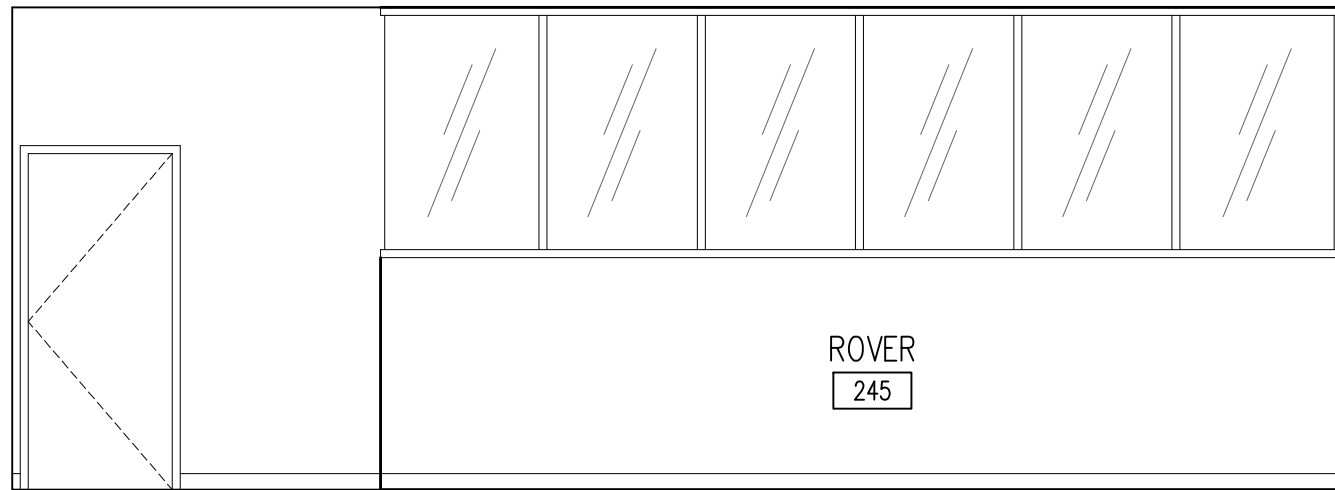
SHEET NUMBER  
**A604**

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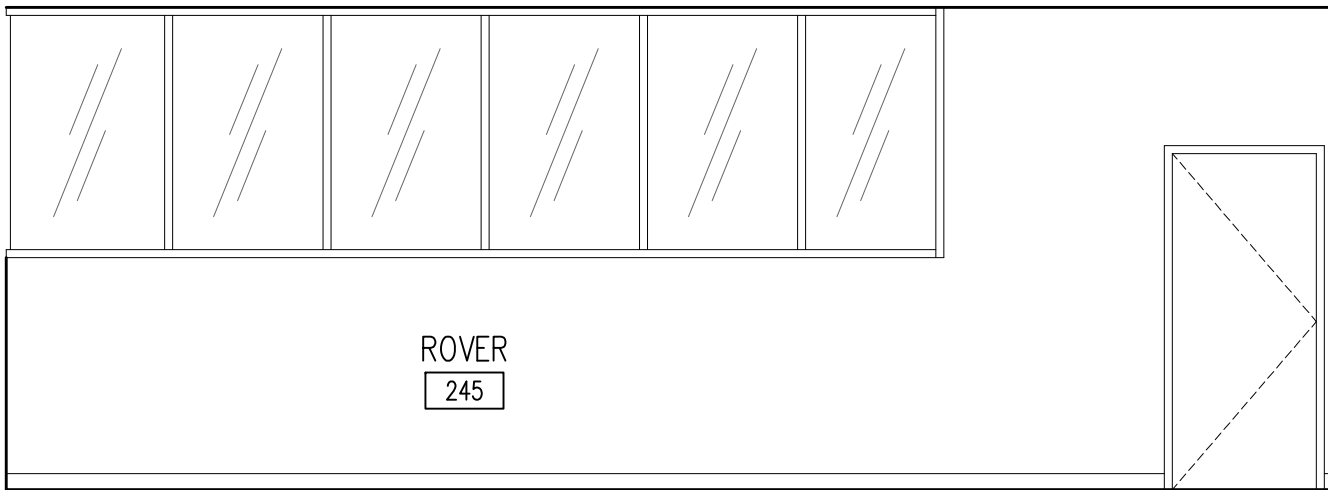




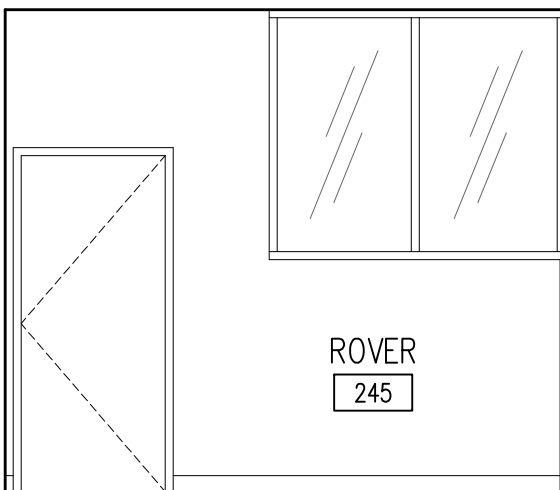
6 SECOND FLOOR ROVER ELEVATION EAST  
1/4" = 1'-0"



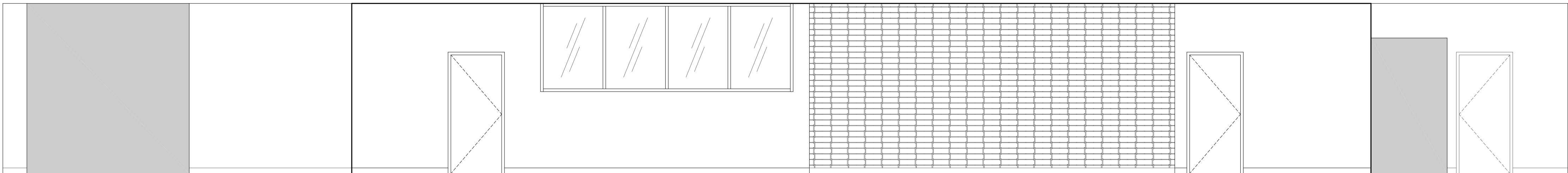
7 SECOND FLOOR ROVER ELEVATION EAST  
1/4" = 1'-0"



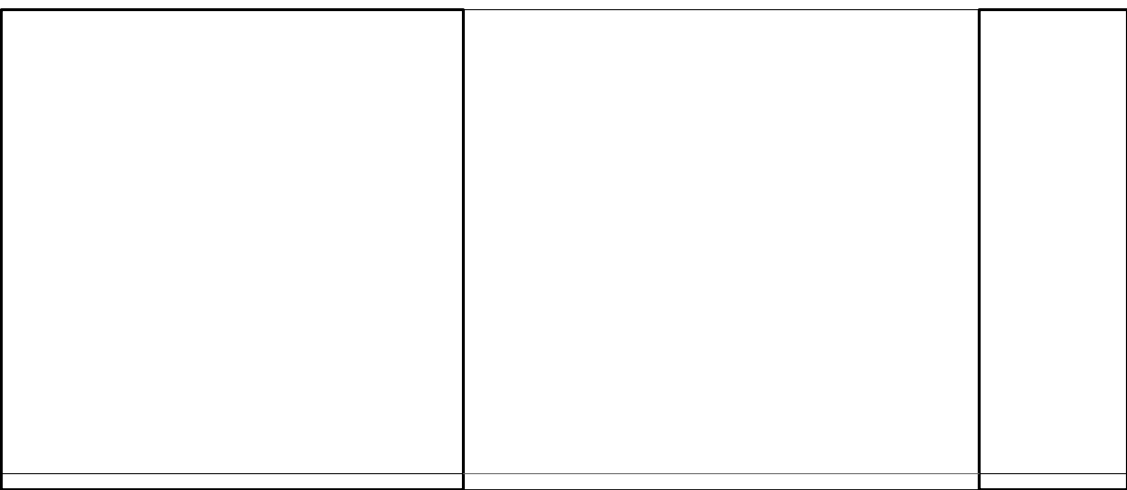
8 SECOND FLOOR ROVER ELEVATION EAST  
1/4" = 1'-0"



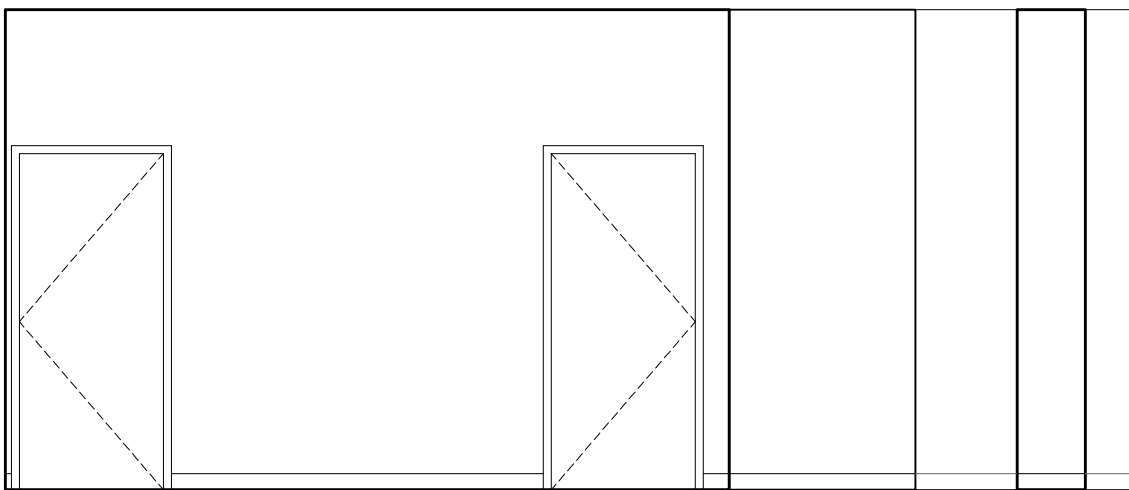
5 SECOND FLOOR ROVER ELEVATION EAST  
1/4" = 1'-0"



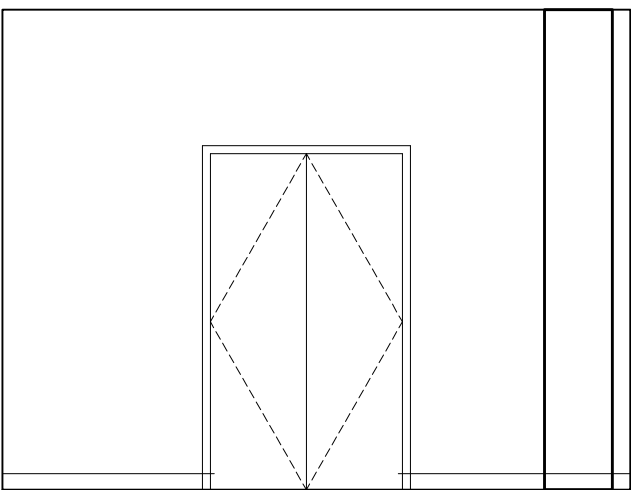
1 INTERNATIONAL BAGGAGE CLAIM NORTH  
1/4" = 1'-0"



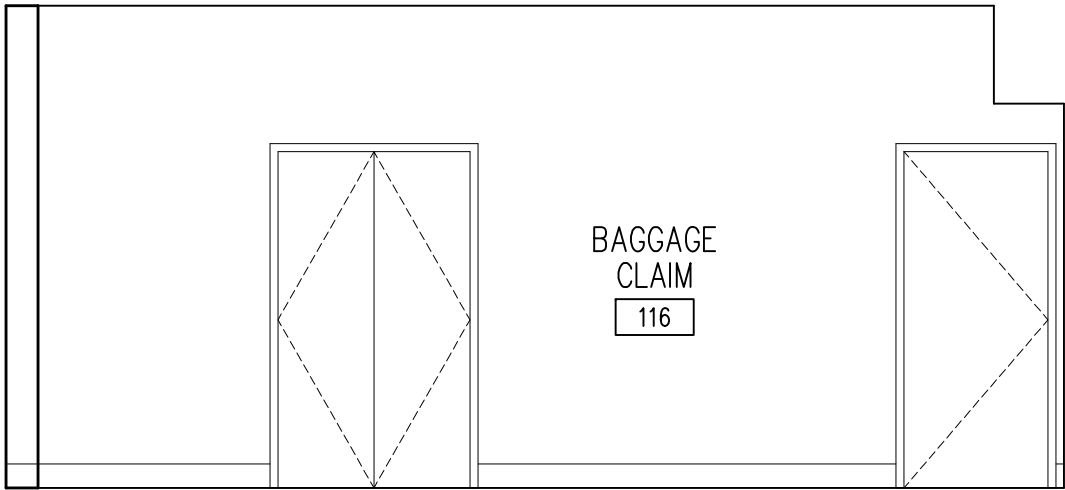
5 INTERNATIONAL BAGGAGE CLAIM EAST  
1/4" = 1'-0"



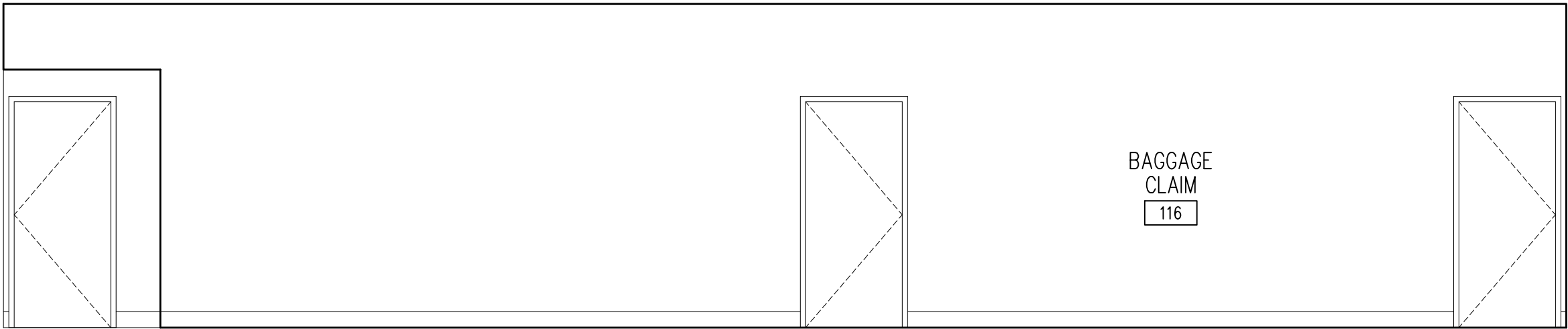
4 INTERNATIONAL BAGGAGE CLAIM WEST  
1/4" = 1'-0"



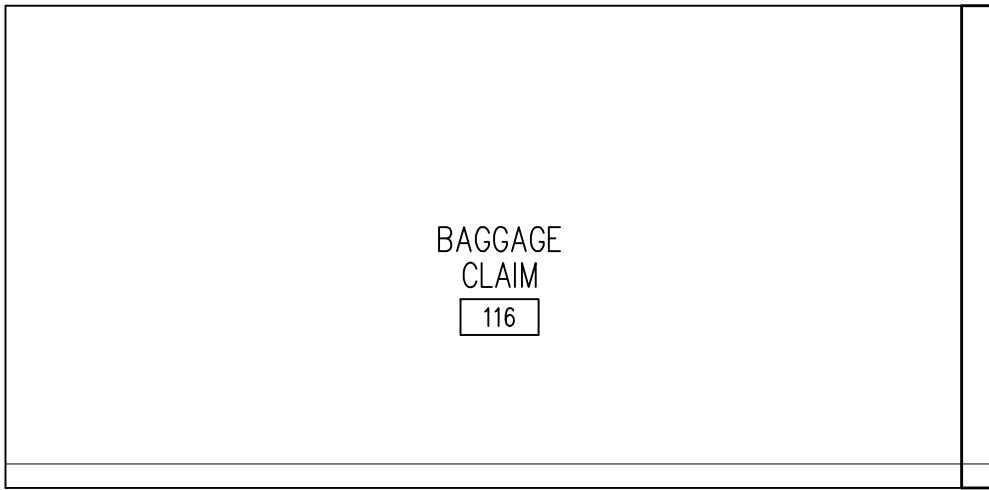
2 INTERNATIONAL BAGGAGE CLAIM EAST  
1/4" = 1'-0"



7 DOMESTIC BAGGAGE CLAIM WEST  
1/4" = 1'-0"



6 DOMESTIC BAGGAGE CLAIM NORTH  
1/4" = 1'-0"



3 DOMESTIC BAGGAGE CLAIM EAST  
1/4" = 1'-0"



REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
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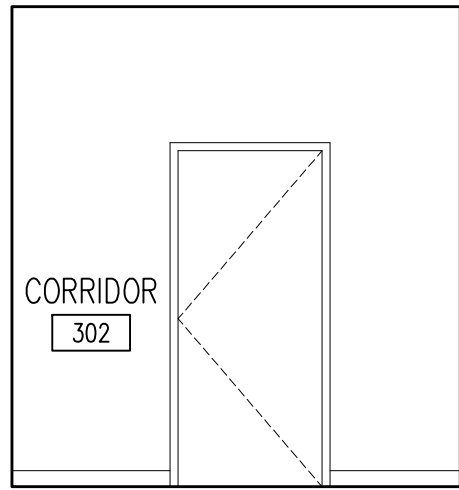
SHEET TITLE  
**INTERIOR  
ELEVATIONS**

SHEET NUMBER  
**A605**

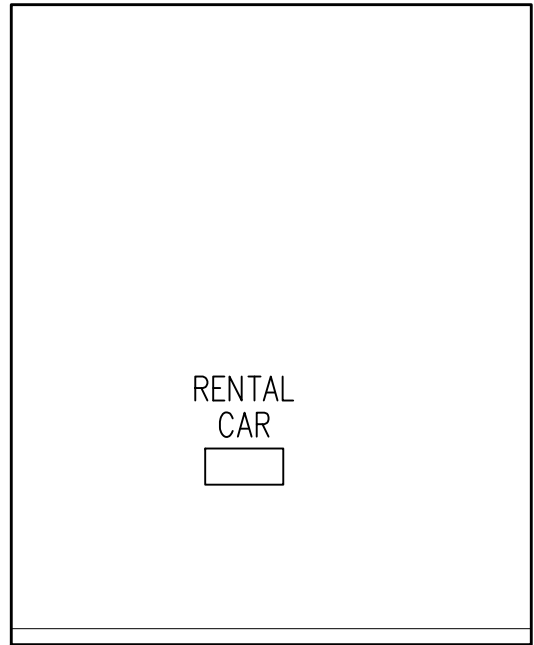
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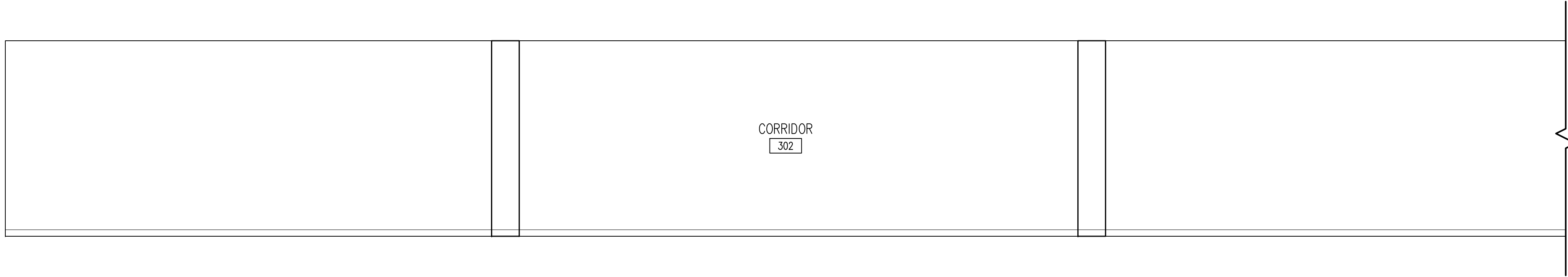
6 THIRD FLOOR CORRIDOR ELEVATION EAST  
1/4" = 1'-0"



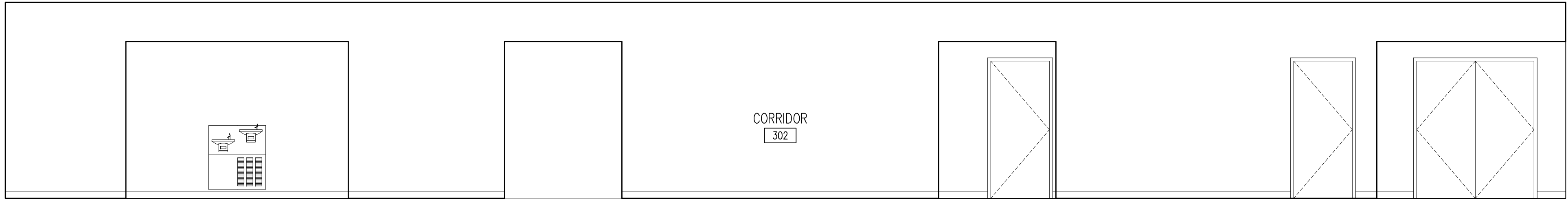
5 RENTAL CAR ELEVATION EAST  
1/4" = 1'-0"



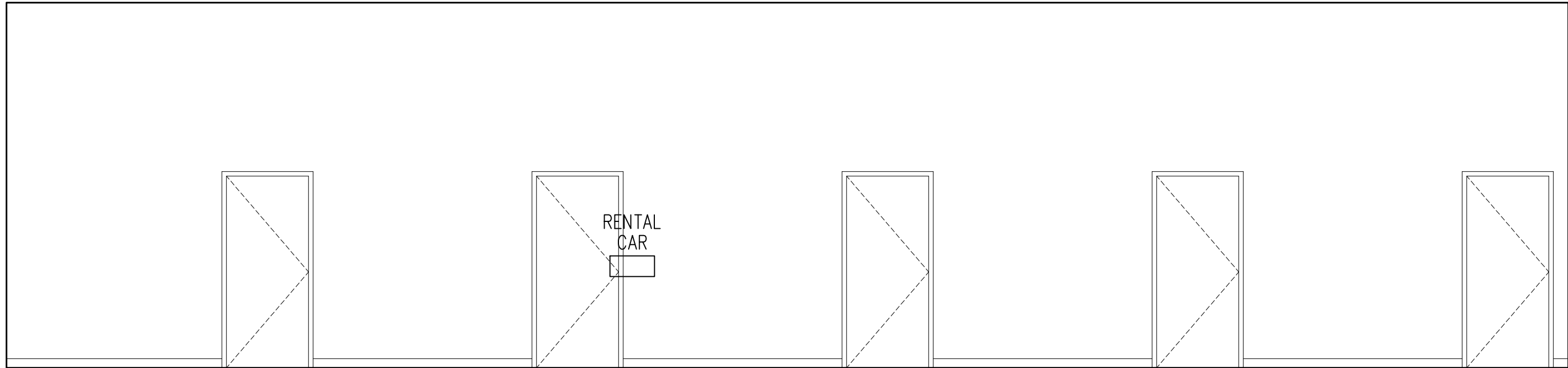
4 THIRD FLOOR CORRIDOR ELEVATION SOUTH  
1/4" = 1'-0"



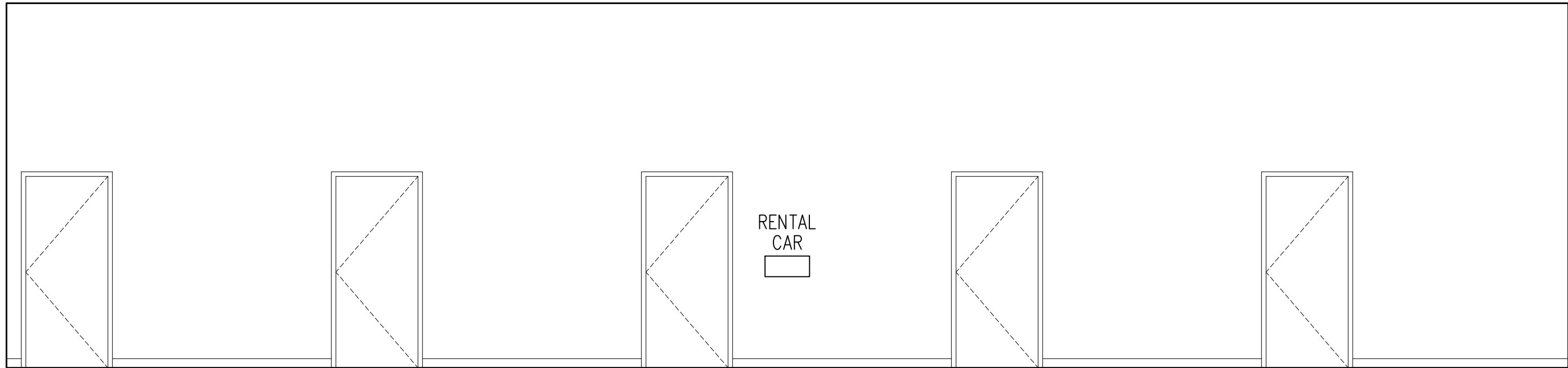
3 THIRD FLOOR CORRIDOR ELEVATION NORTH  
1/4" = 1'-0"



2 RENTAL CAR ELEVATION NORTH  
1/4" = 1'-0"



1 RENTAL CAR ELEVATION SOUTH  
1/4" = 1'-0"



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**REVISIONS**

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**DATE ISSUED:** 04-12-10  
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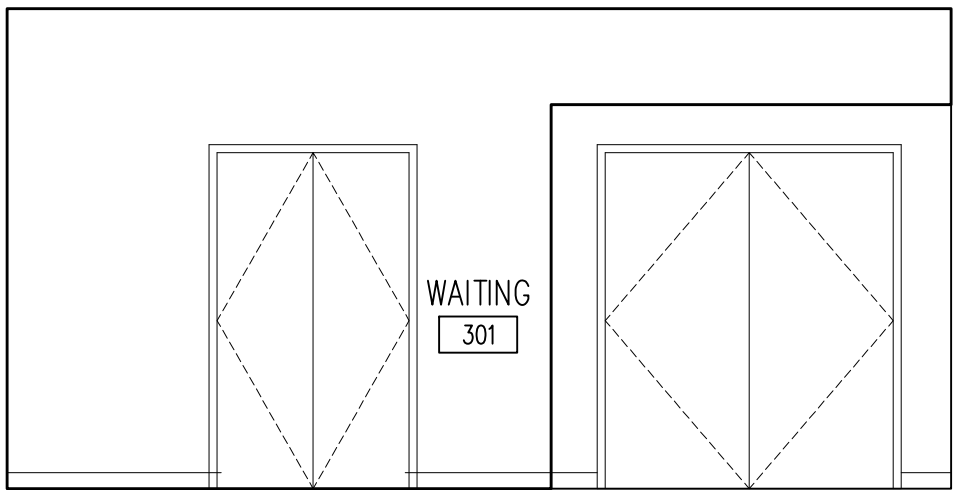
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**SHEET TITLE**  
**INTERIOR  
ELEVATIONS**

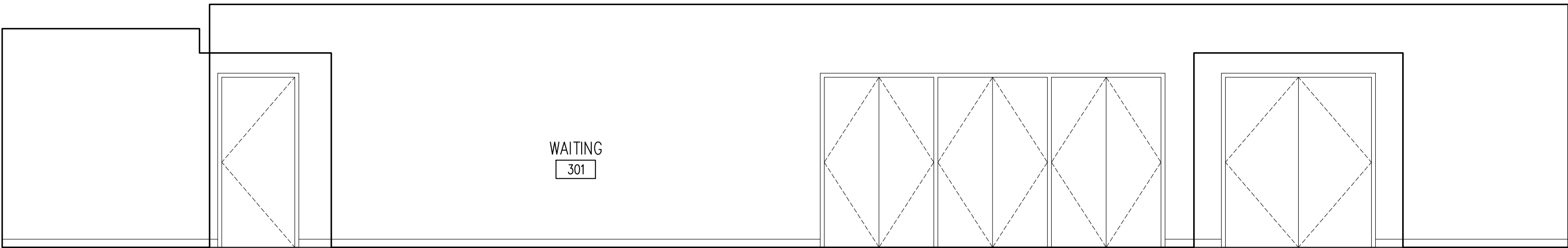
**SHEET NUMBER**  
**A606**

**90% NOT FOR  
CONSTRUCTION**

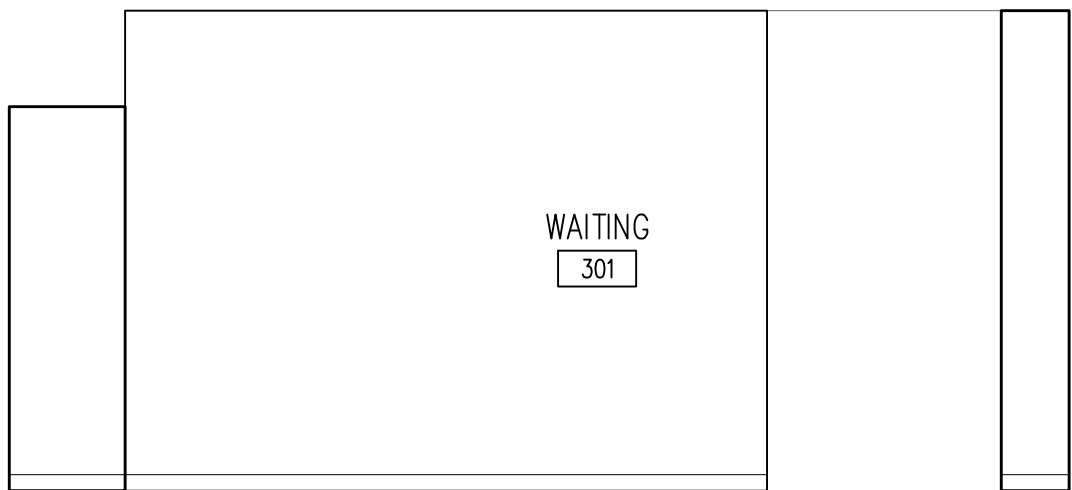




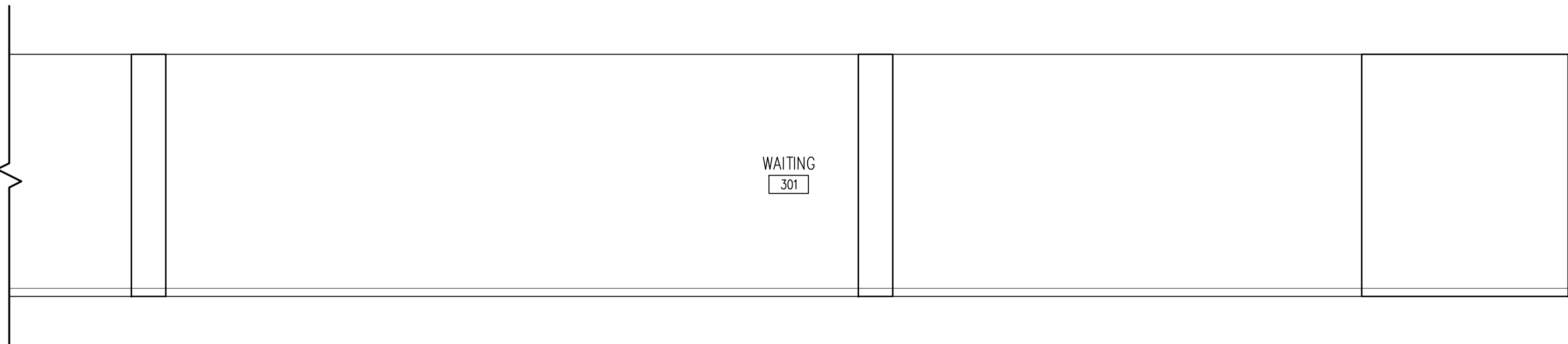
5 THIRD FLOOR WAITING ROOM ELEVATION EAST  
1/4" = 1'-0"



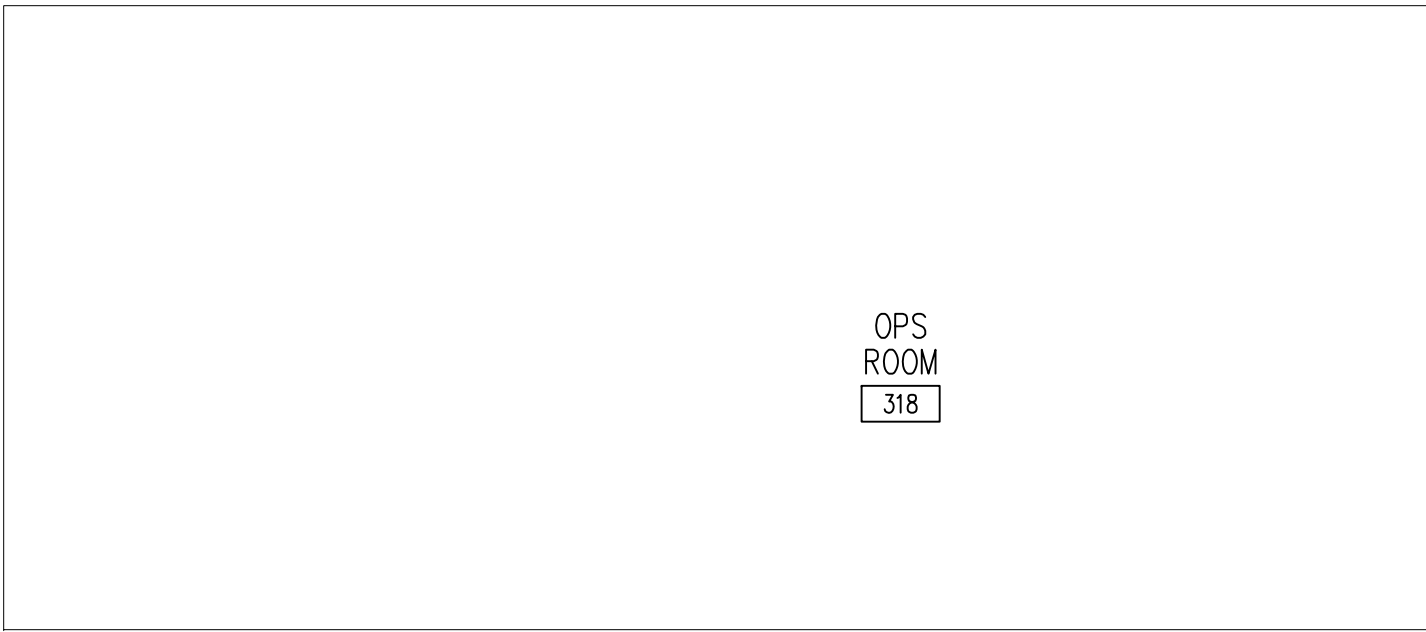
1 THIRD FLOOR WAITING ROOM ELEVATION NORTH  
1/4" = 1'-0"



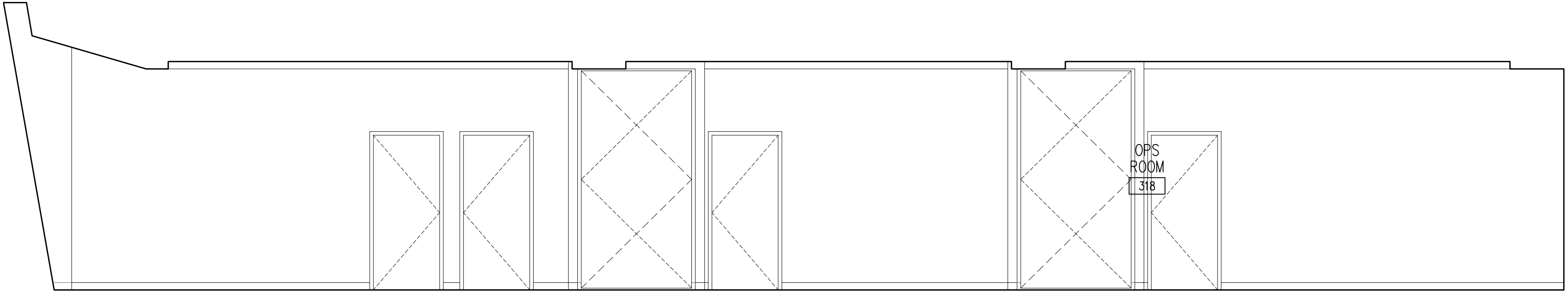
6 THIRD FLOOR WAITING ROOM ELEVATION WEST  
1/4" = 1'-0"



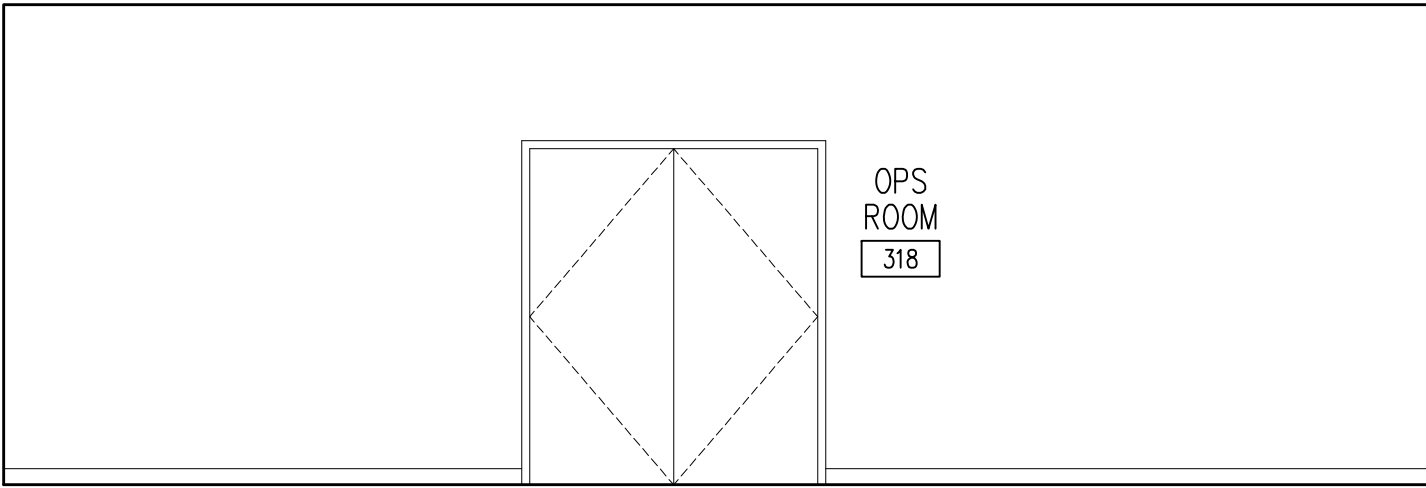
2 THIRD FLOOR WAITING ROOM ELEVATION SOUTH  
1/4" = 1'-0"



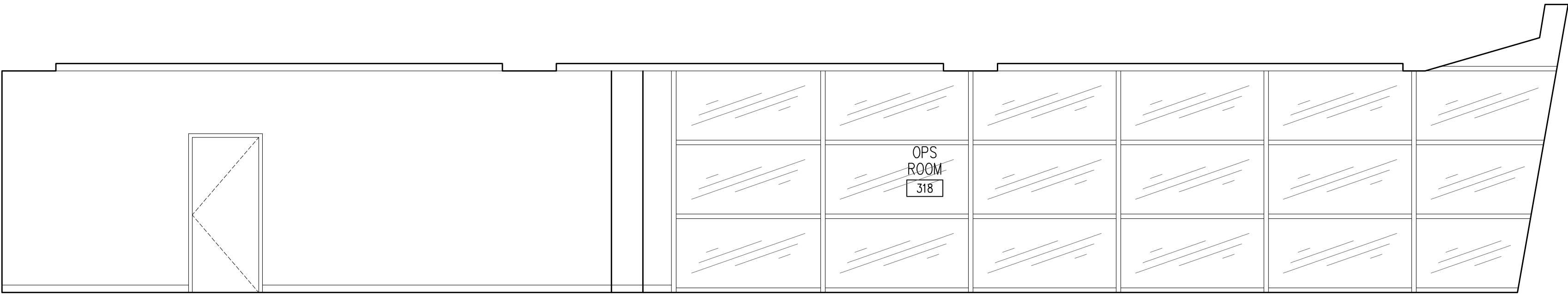
7 THIRD FLOOR OPS ROOM ELEVATION EAST  
1/4" = 1'-0"



3 THIRD FLOOR OPS ROOM ELEVATION SOUTH  
1/4" = 1'-0"



8 THIRD FLOOR OPS ROOM ELEVATION WEST  
1/4" = 1'-0"



4 THIRD FLOOR OPS ROOM ELEVATION SOUTH  
1/4" = 1'-0"



REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

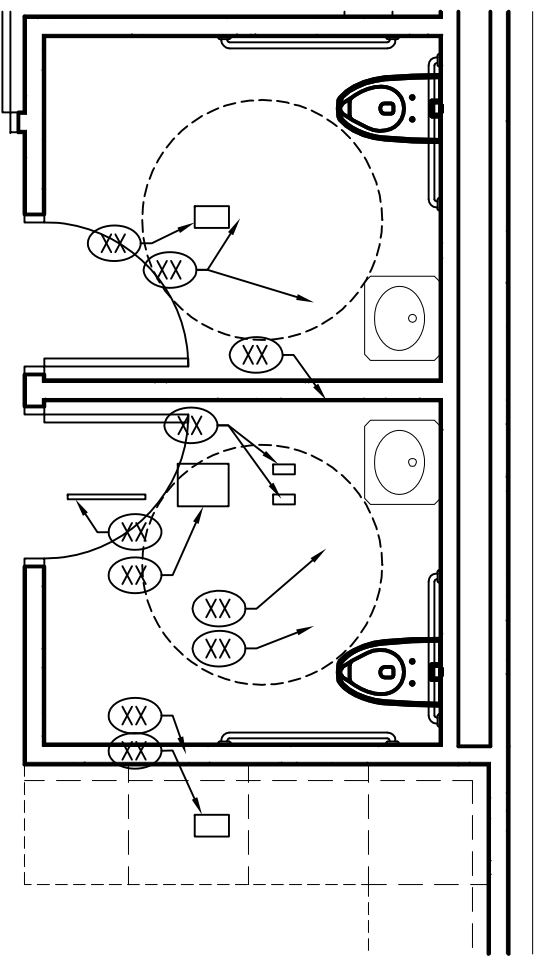
AEP PROJECT NUMBER  
**213-1882-091**  
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SHEET TITLE  
**INTERIOR  
ELEVATIONS**

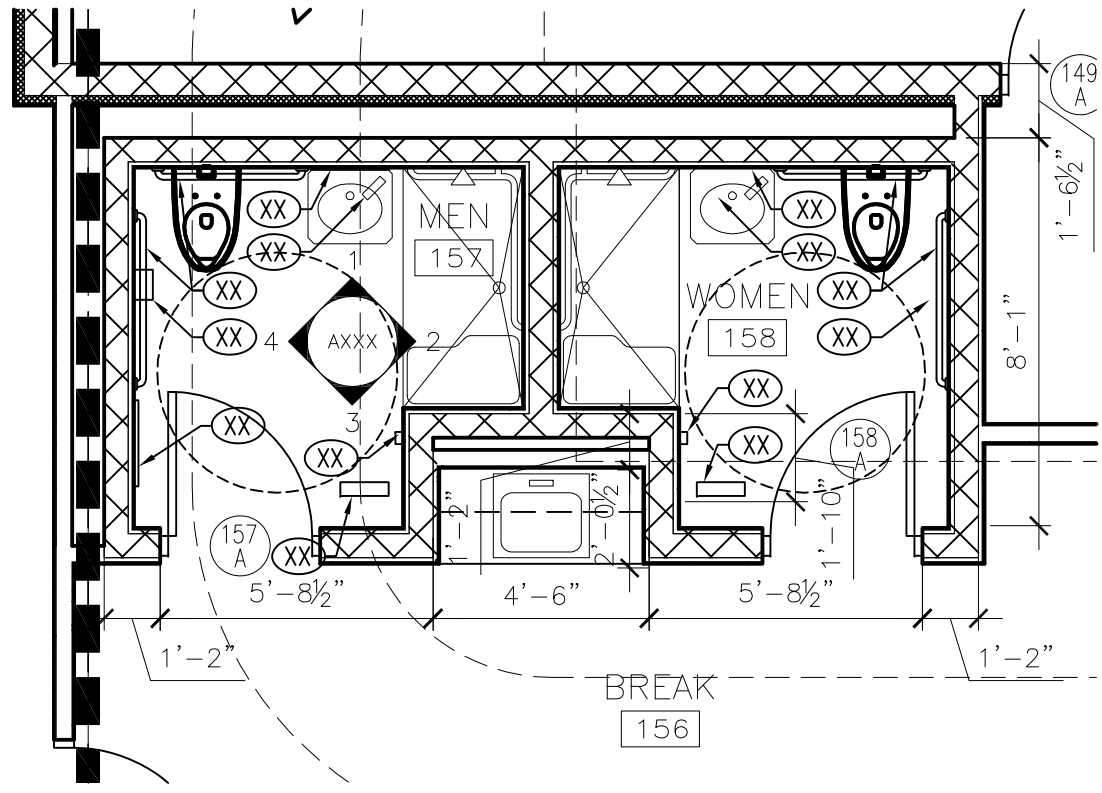
SHEET NUMBER  
**A607**

**90% NOT FOR  
CONSTRUCTION**

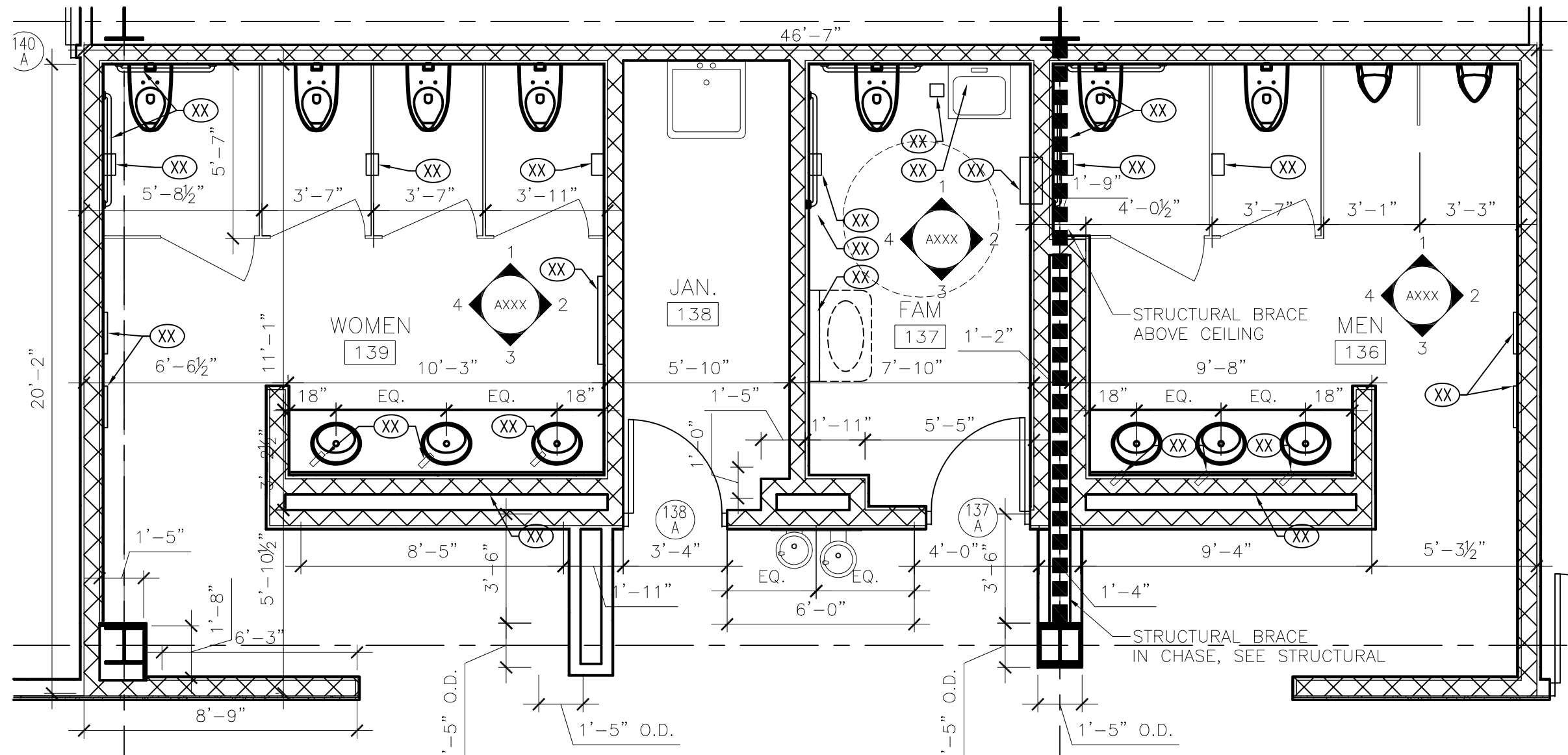




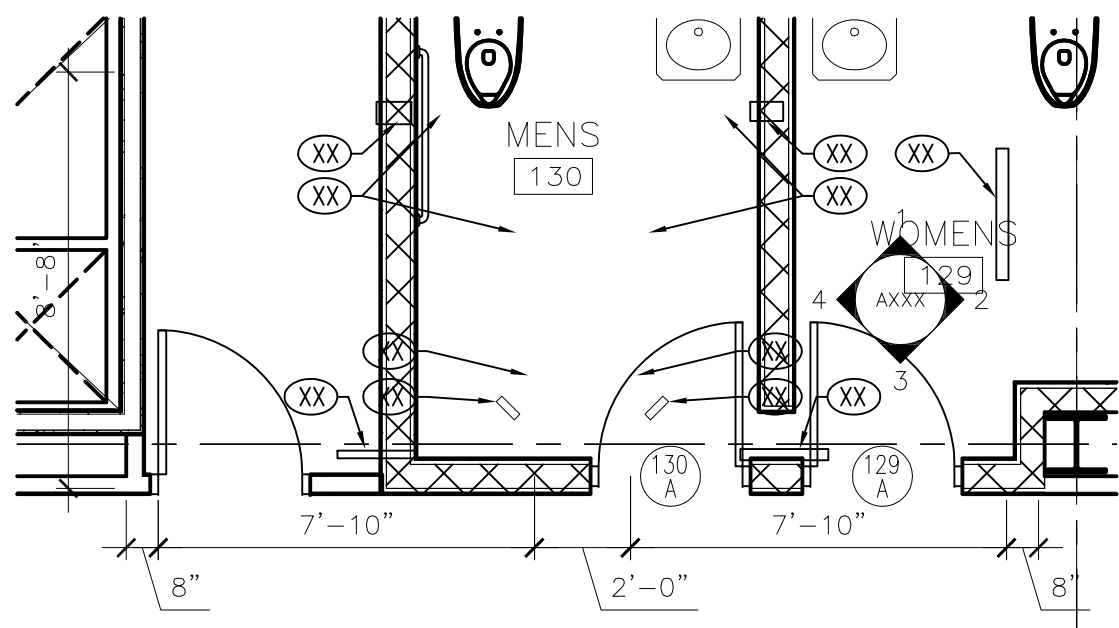
24 ENLARGED PLAN  
1/4" = 1'-0"



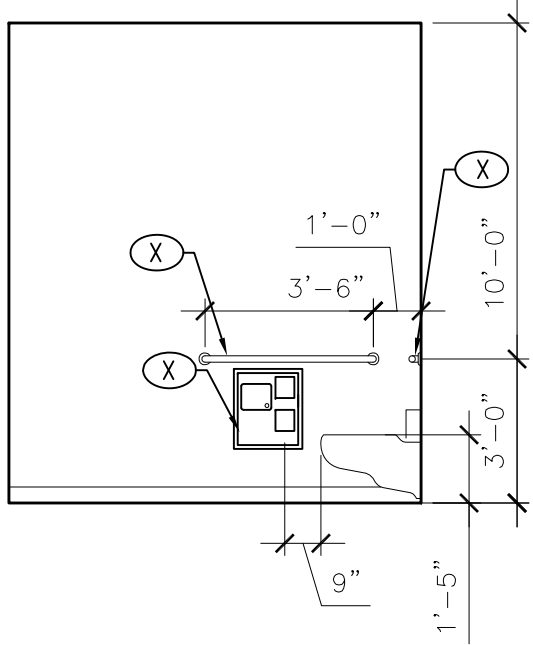
19 ENLARGED PLAN  
1/4" = 1'-0"



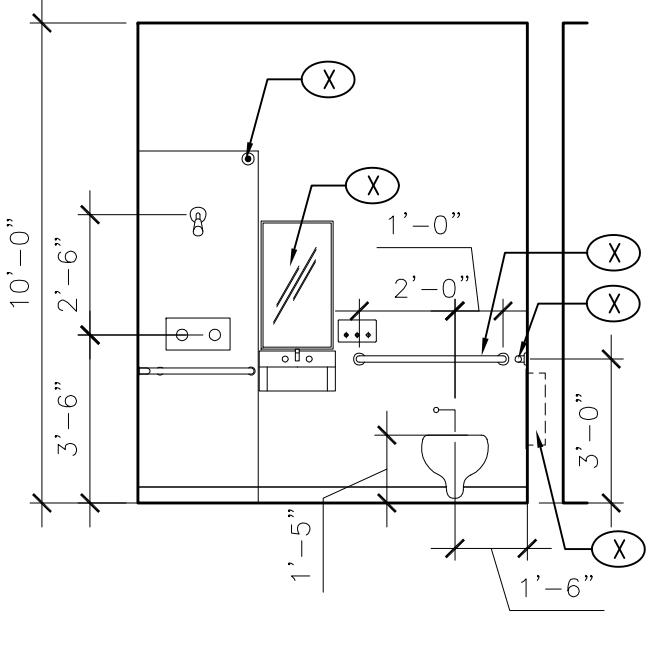
6 ENLARGED PLAN  
1/4" = 1'-0"



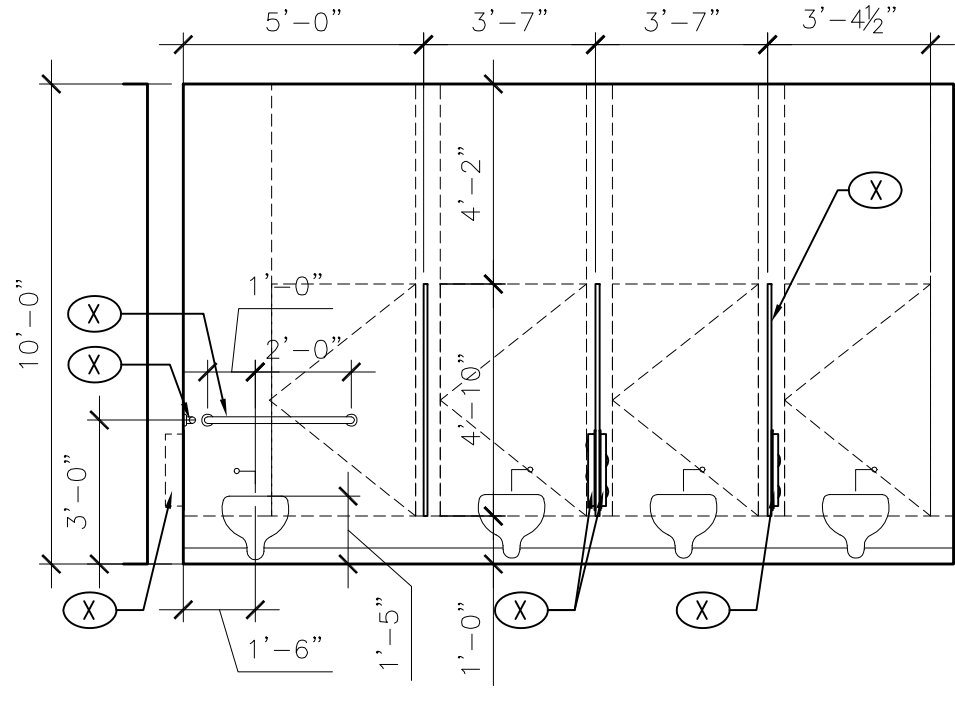
1 ENLARGED PLAN  
1/4" = 1'-0"



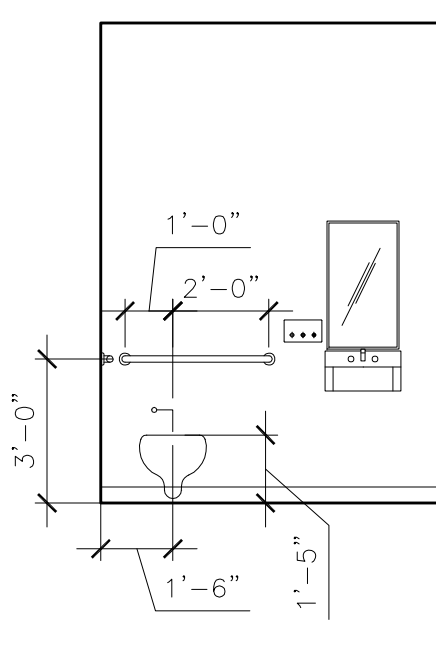
25 ELEVATION  
1/4" = 1'-0"



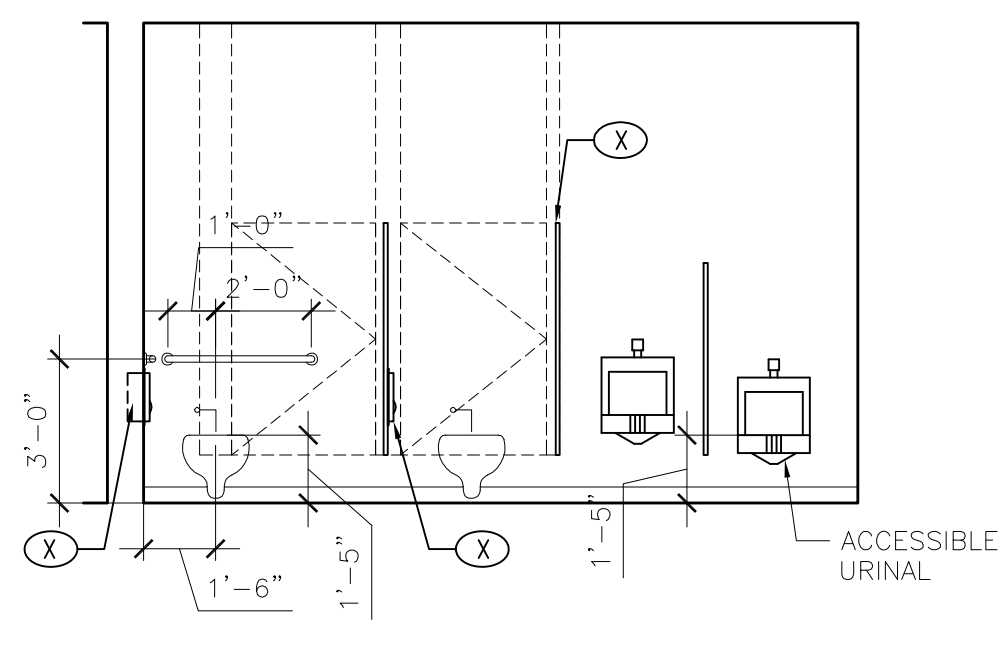
20 ELEVATION  
1/4" = 1'-0"



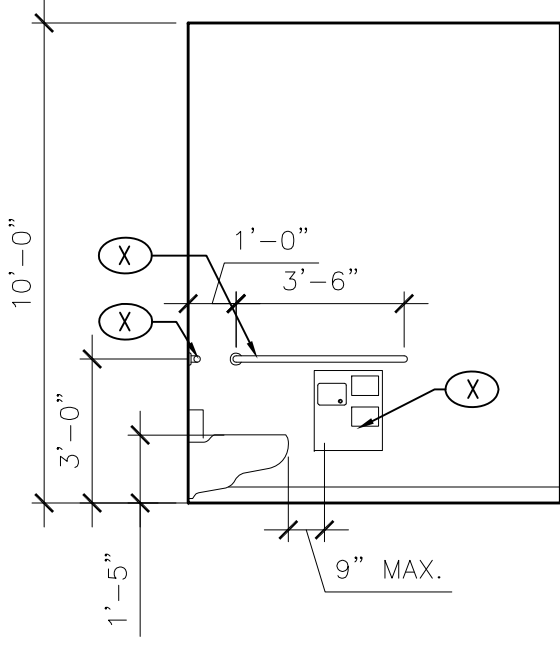
15 ELEVATION  
1/4" = 1'-0"



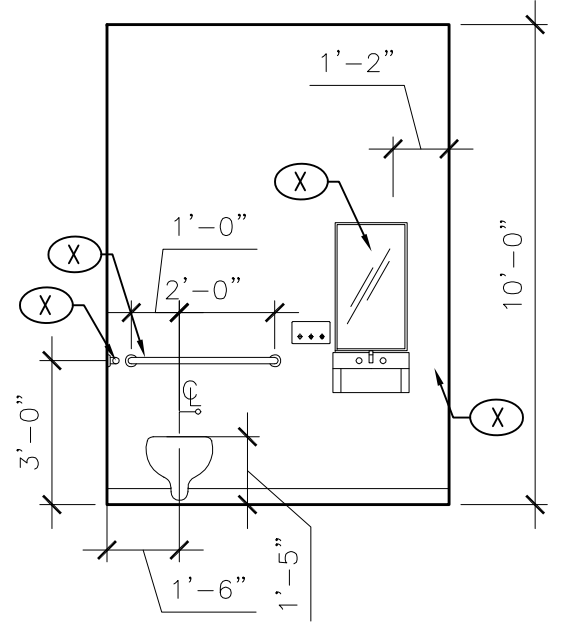
11 ELEVATION  
1/4" = 1'-0"



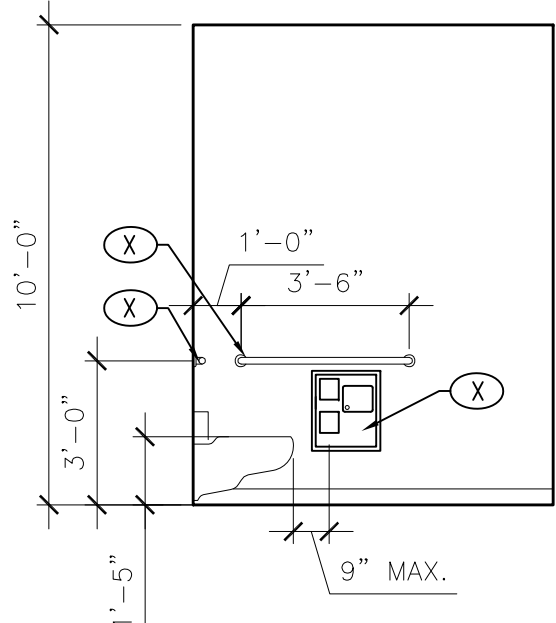
7 ELEVATION  
1/4" = 1'-0"



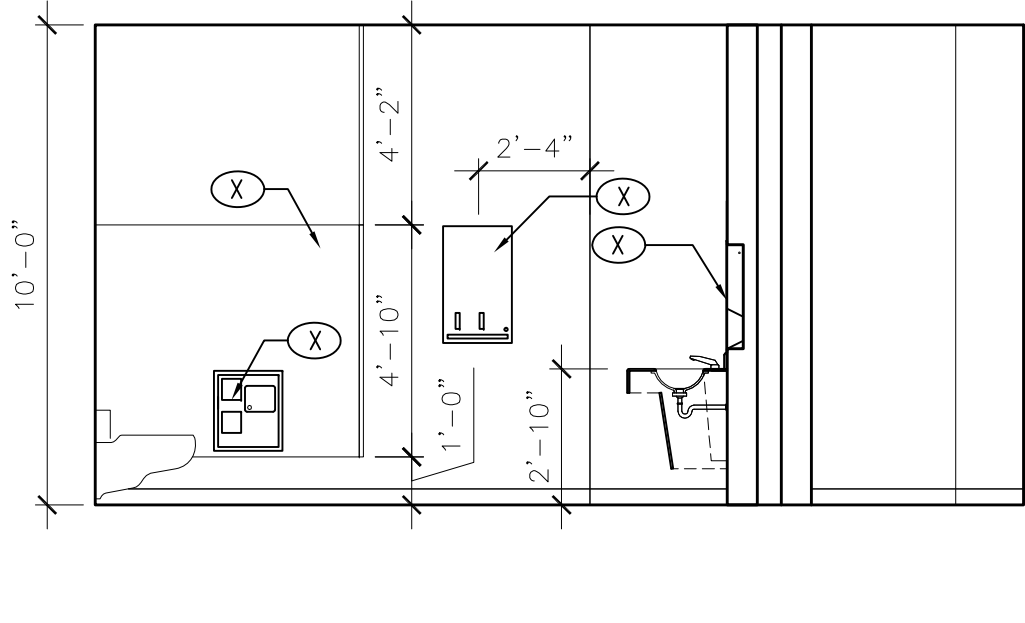
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1/4" = 1'-0"



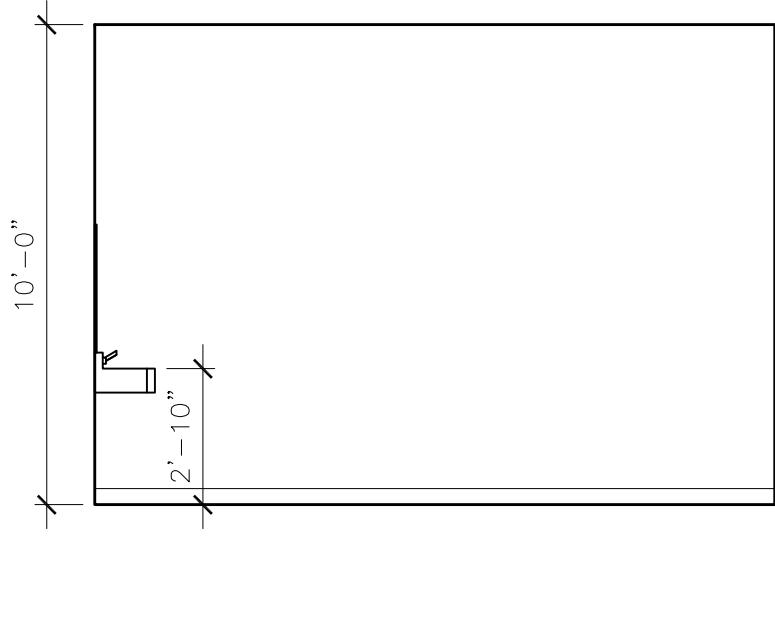
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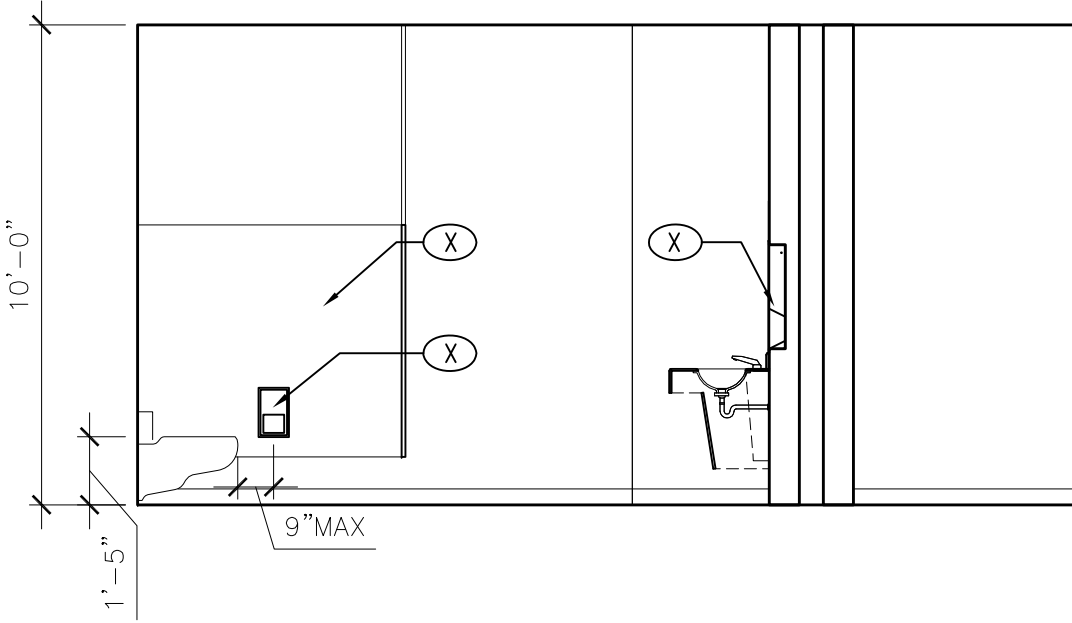
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1/4" = 1'-0"



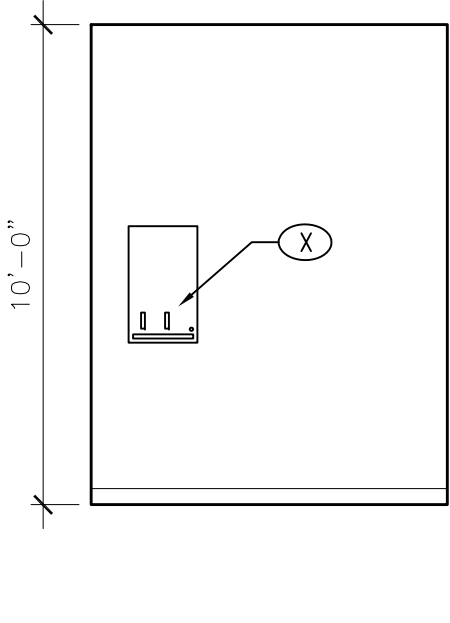
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1/4" = 1'-0"



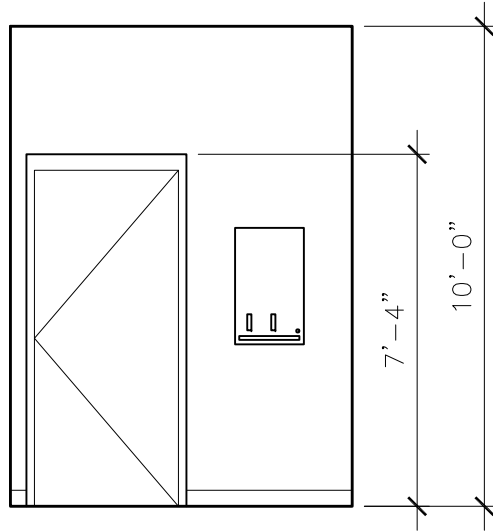
12 ELEVATION  
1/4" = 1'-0"



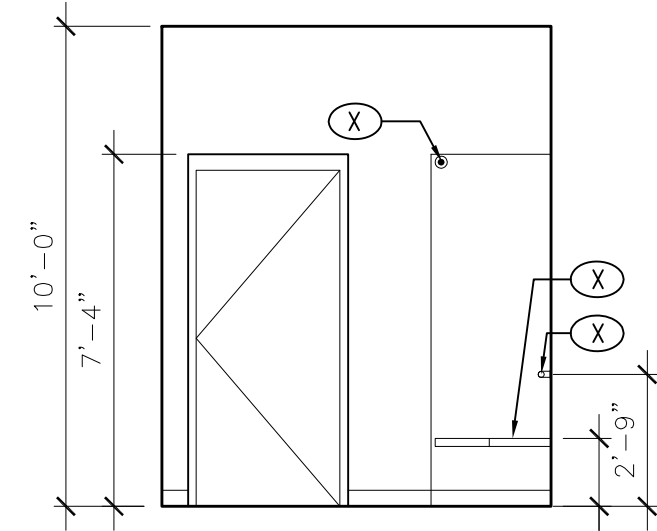
8 ELEVATION  
1/4" = 1'-0"



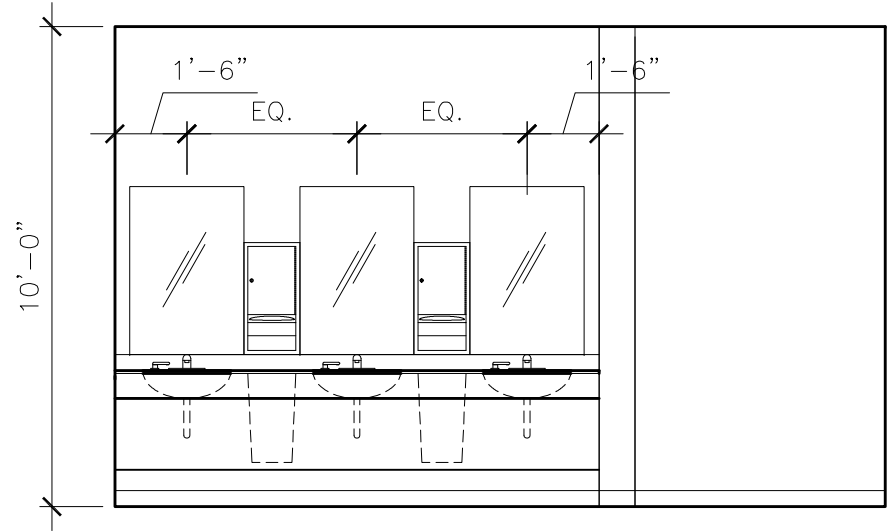
3 ELEVATION  
1/4" = 1'-0"



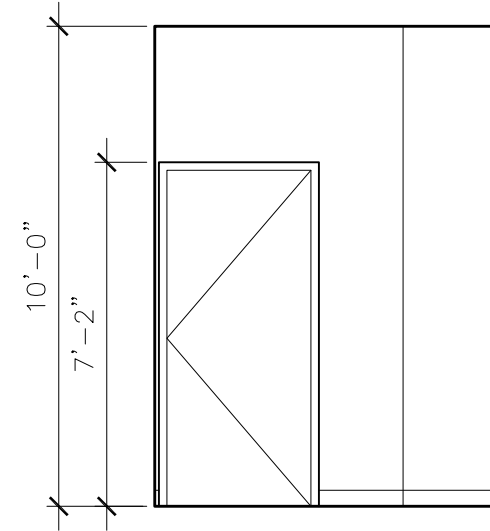
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1/4" = 1'-0"



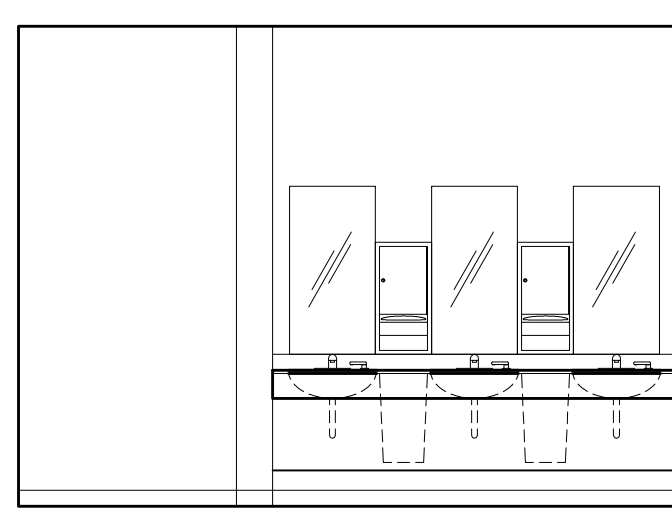
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1/4" = 1'-0"



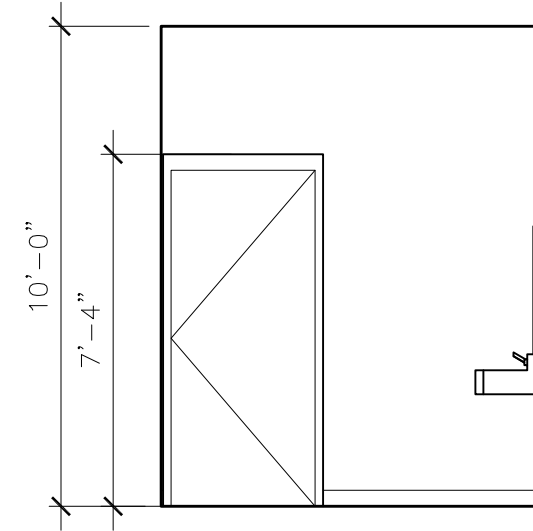
17 ELEVATION  
1/4" = 1'-0"



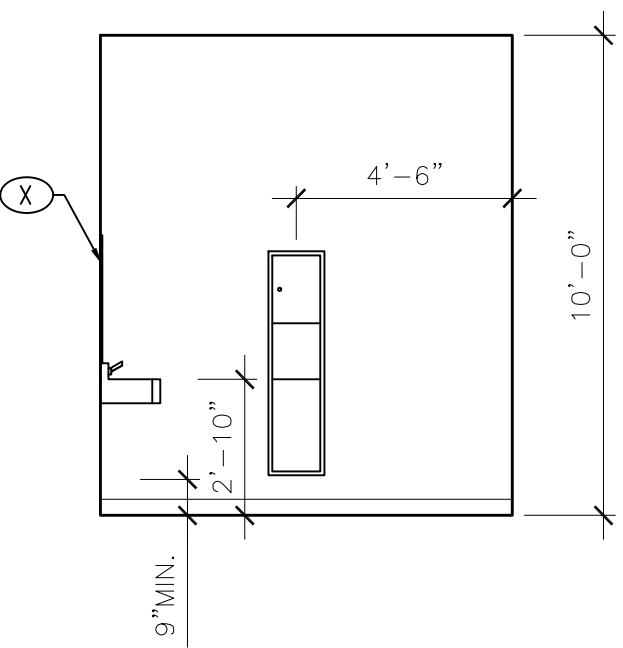
13 ELEVATION  
1/4" = 1'-0"



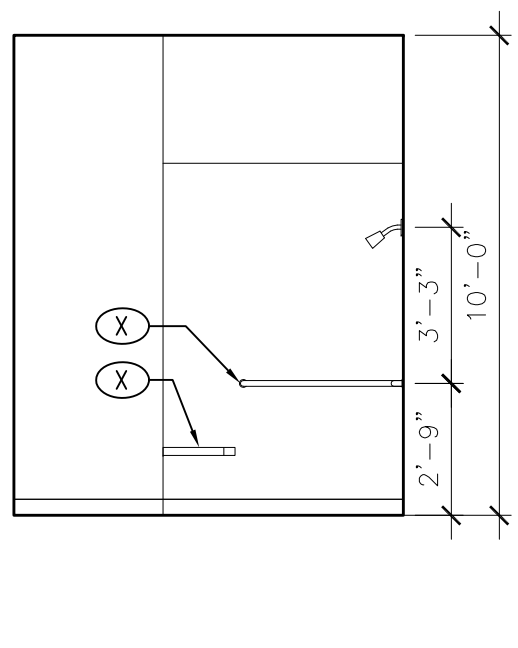
9 ELEVATION  
1/4" = 1'-0"



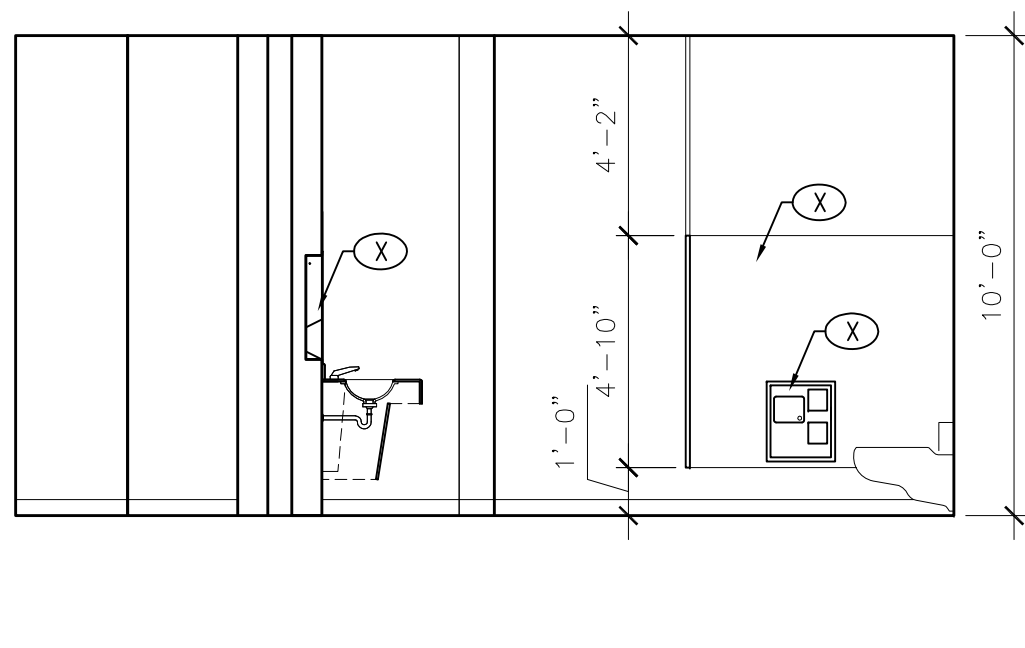
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1/4" = 1'-0"



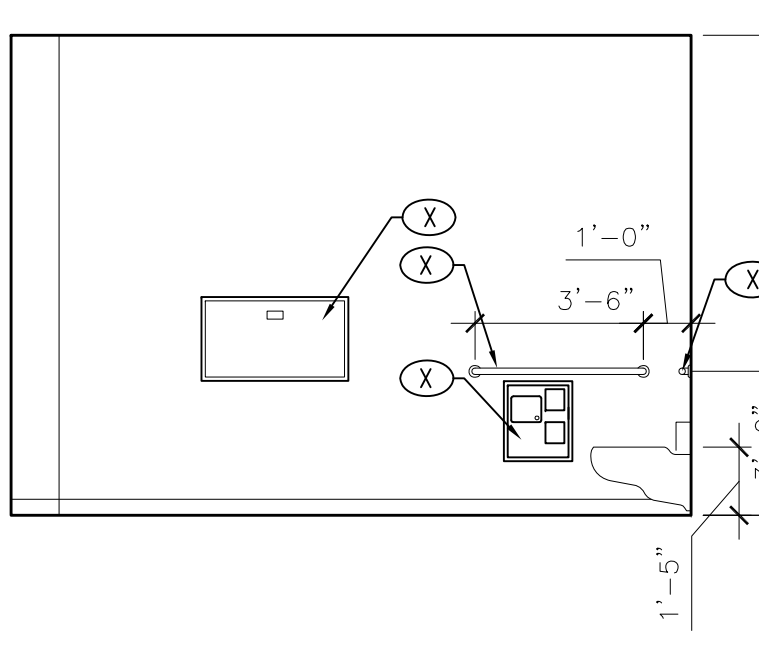
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1/4" = 1'-0"



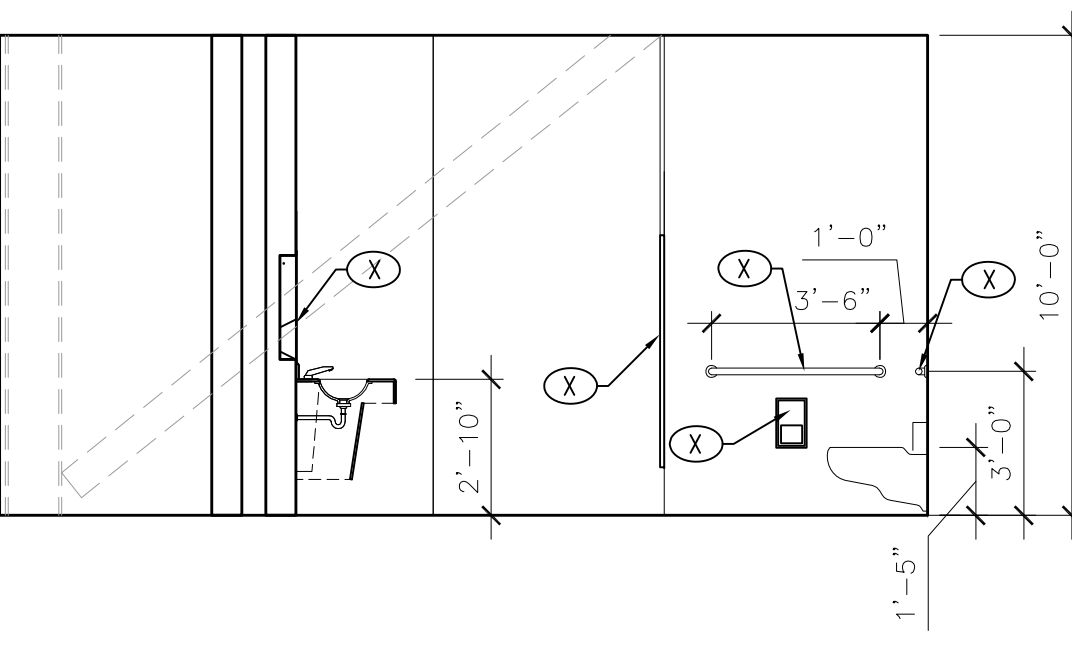
23 ELEVATION  
1/4" = 1'-0"



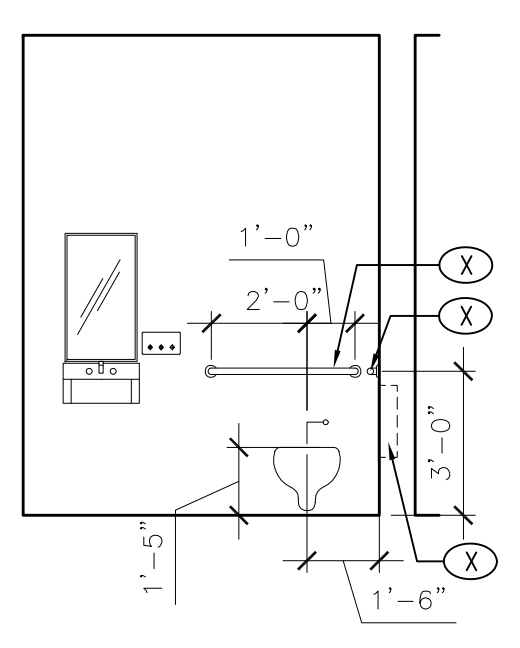
18 ELEVATION  
1/4" = 1'-0"



14 ELEVATION  
1/4" = 1'-0"



10 ELEVATION  
1/4" = 1'-0"



5 ELEVATION  
1/4" = 1'-0"

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501 Lake Avenue South, Suite 300, Duluth MN 55802  
TEL: (218) 722-1056 / FAX: (218) 722-9306  
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1 South Wacker Drive, 37th Floor, Chicago IL 60606  
TEL: (312) 201-7406 / FAX: (312) 201-0031  
Baggage Handling Systems Consultants:  
**BNP ASSOCIATES INC.**  
101 East Ridge Office Park, Suite 103, Danbury CT 06810  
TEL: (203) 792-3000 / FAX: (203) 792-4900  
Landscaping Consultants:  
**APPOLD DESIGN**  
2432 East First Street, Duluth MN 55812  
TEL: (218) 591-5079



REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MI  
DESIGNED BY: SBS/TC

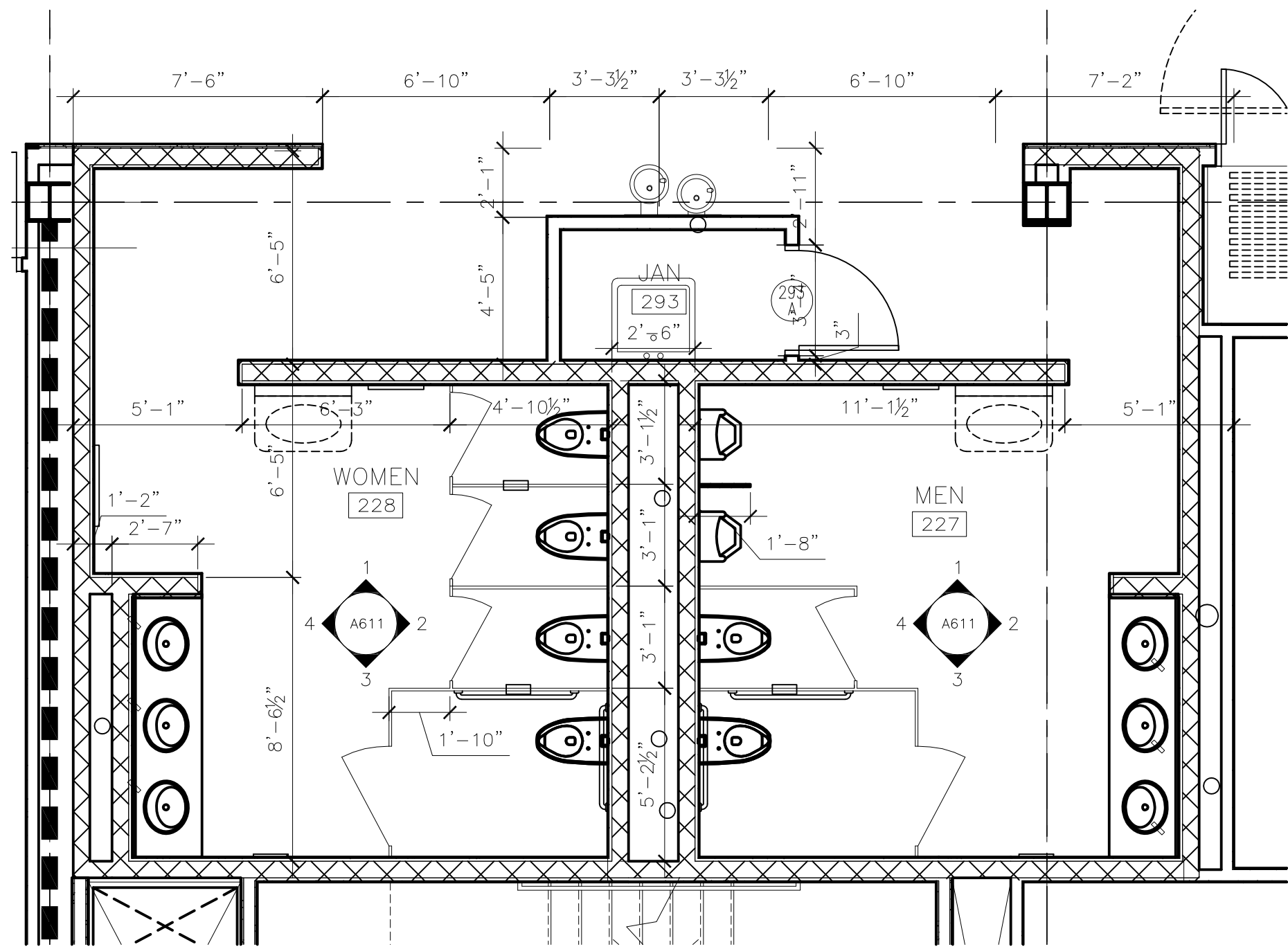
AEP PROJECT NUMBER  
213-1882-091  
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SHEET TITLE  
INTERIOR SYSTEMS  
RESTROOMS

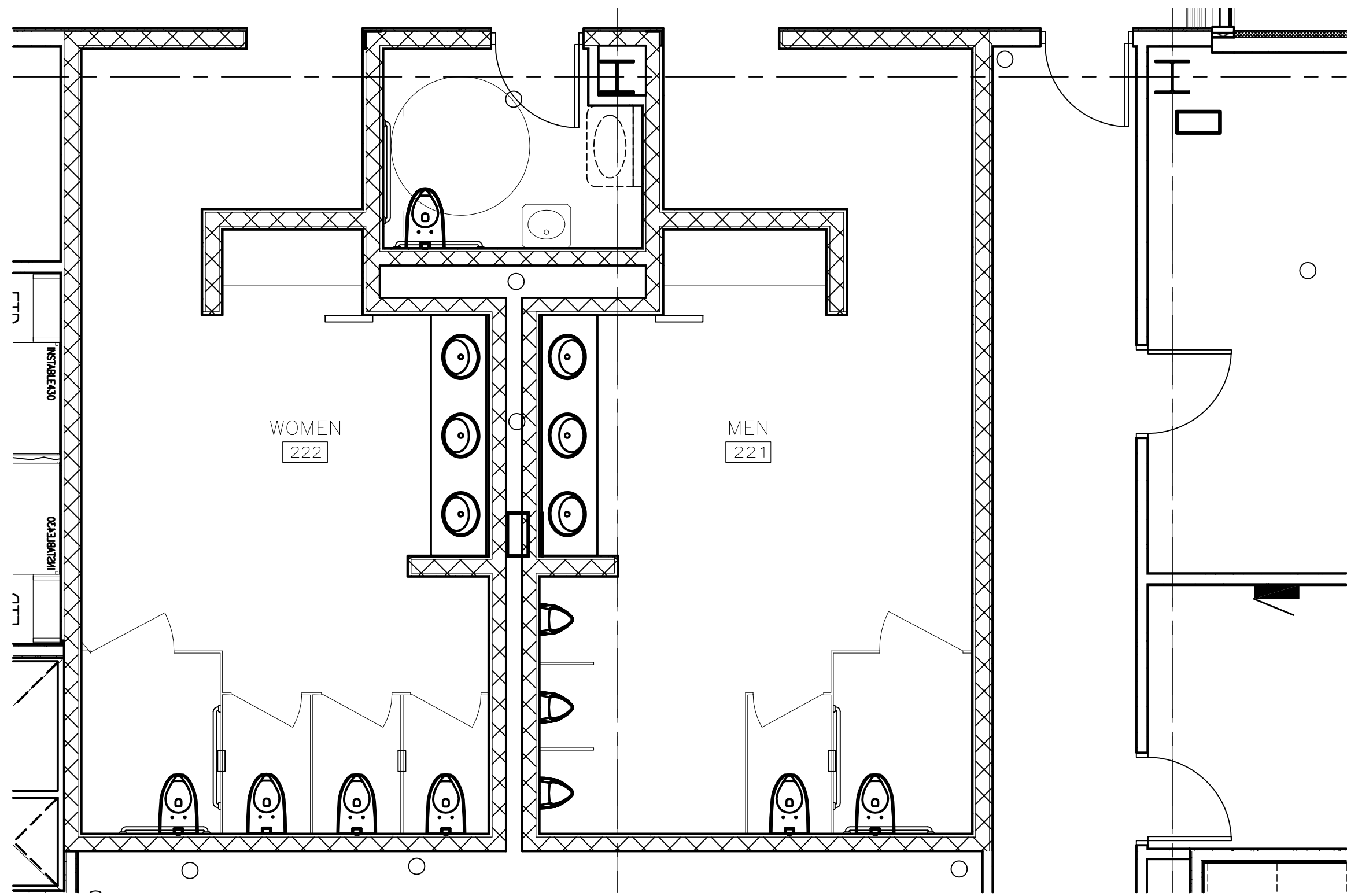
SHEET NUMBER  
A610

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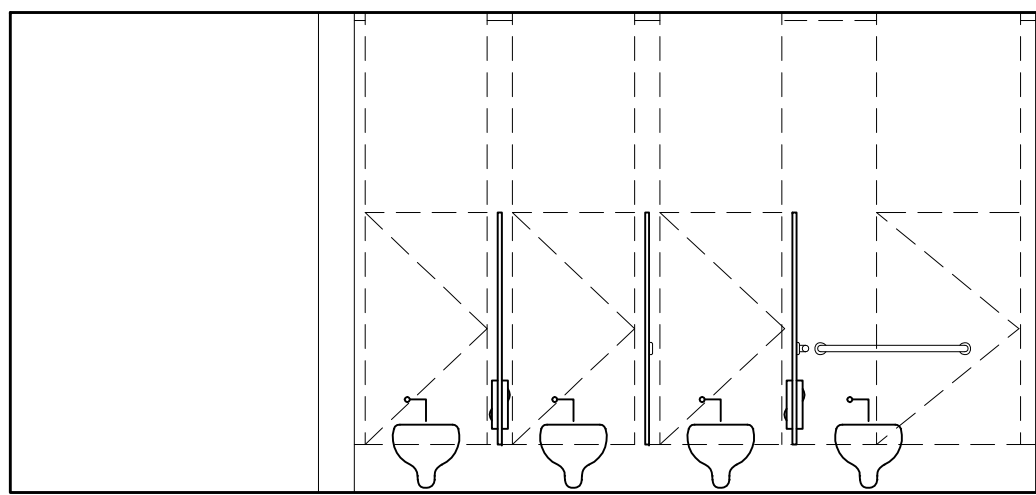




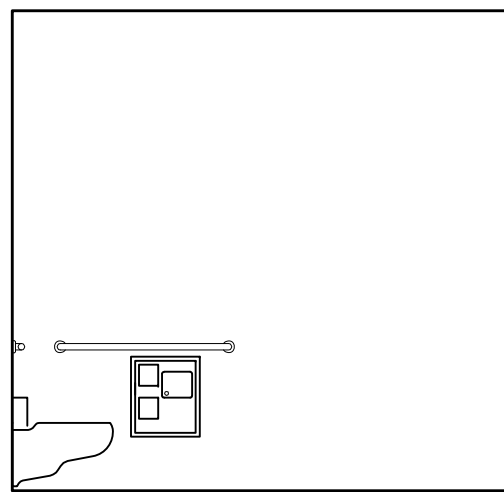
8 ENLARGED PLAN  
1/4" = 1'-0"



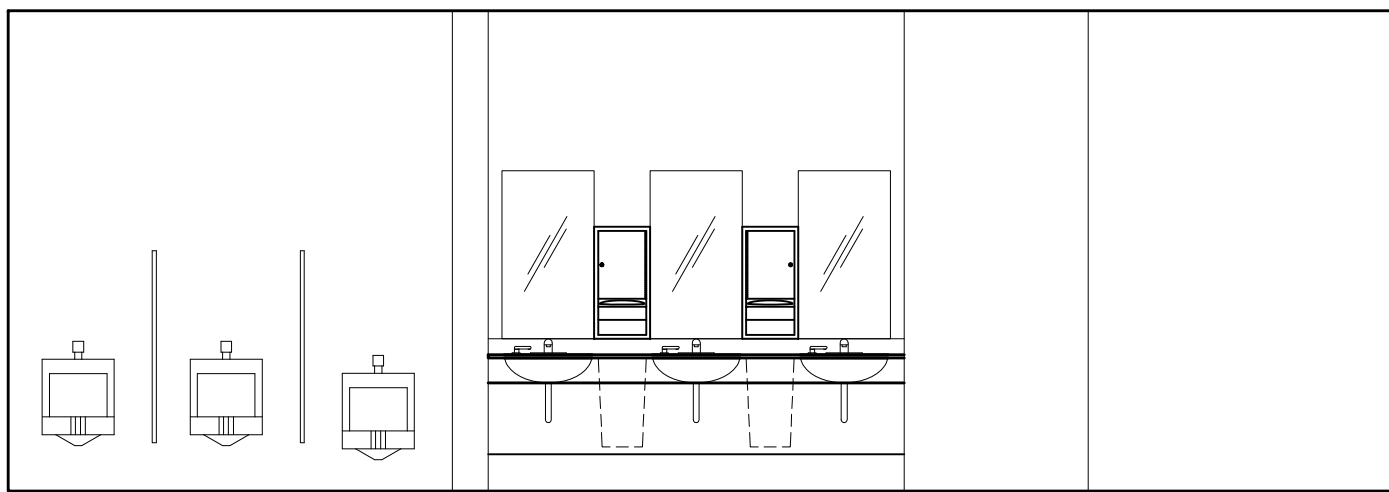
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1/4" = 1'-0"



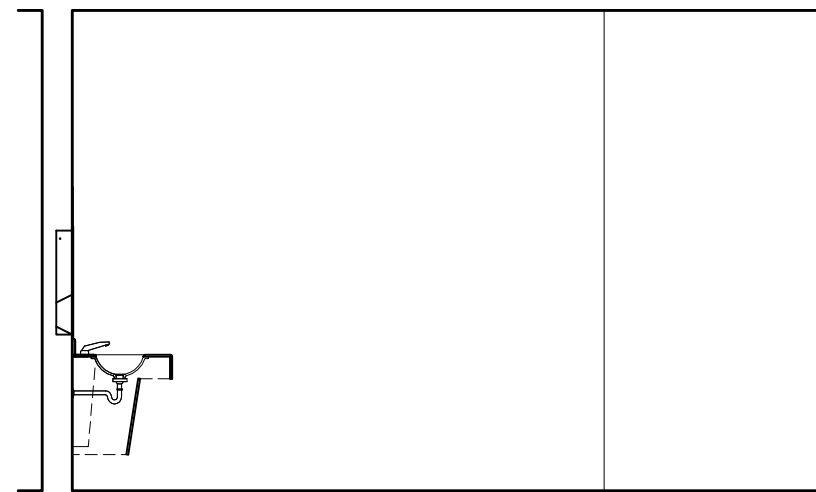
12 ELEVATION  
1/4" = 1'-0"



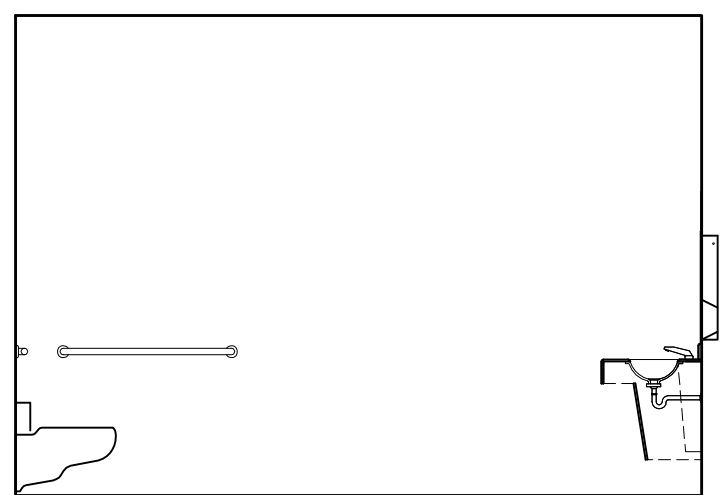
9 ELEVATION  
1/4" = 1'-0"



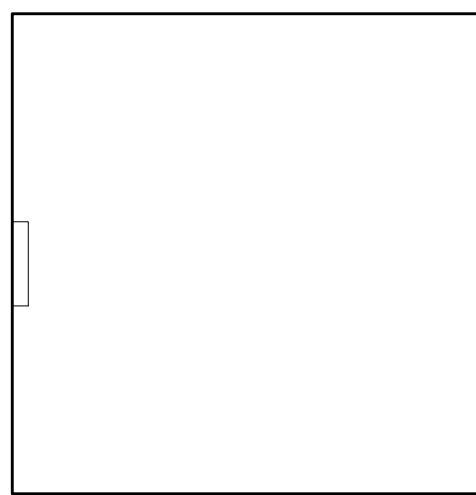
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1/4" = 1'-0"



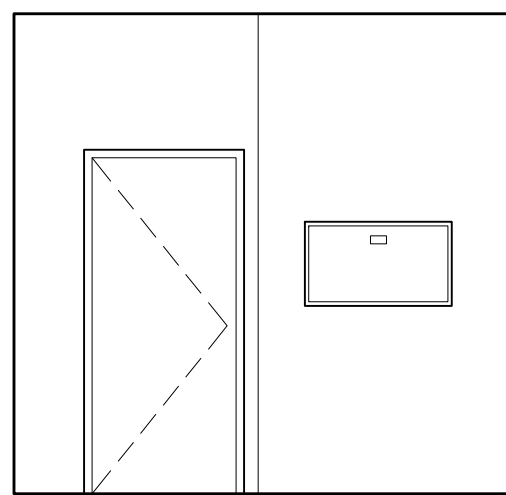
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1/4" = 1'-0"



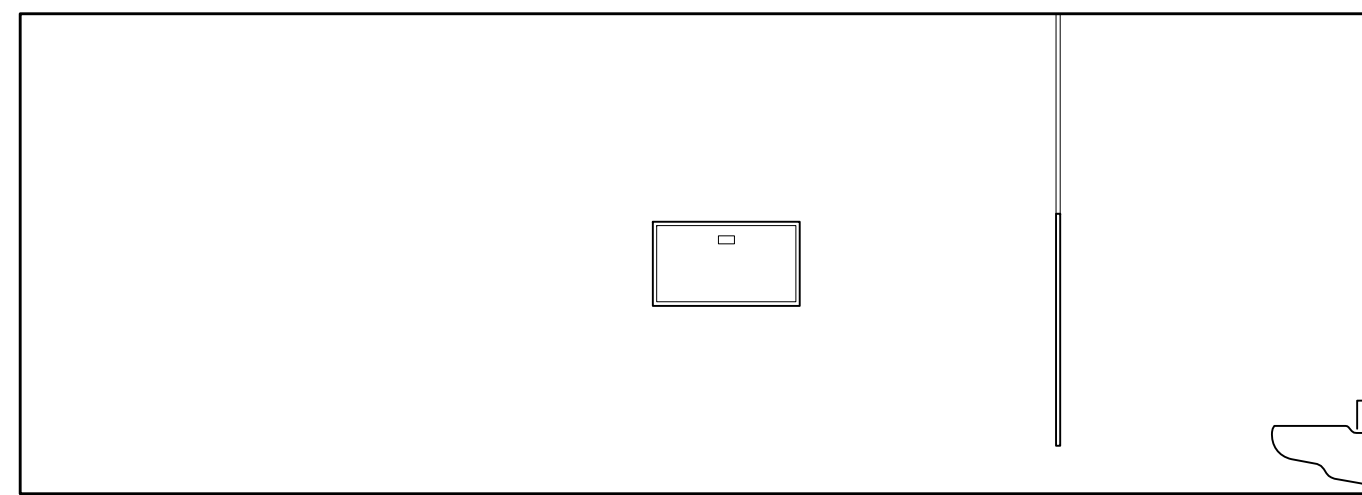
13 ELEVATION  
1/4" = 1'-0"



10 ELEVATION  
1/4" = 1'-0"



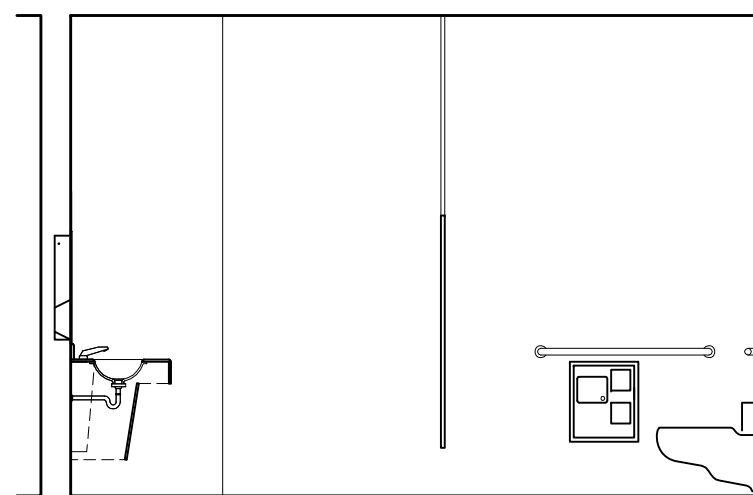
6 ELEVATION  
1/4" = 1'-0"



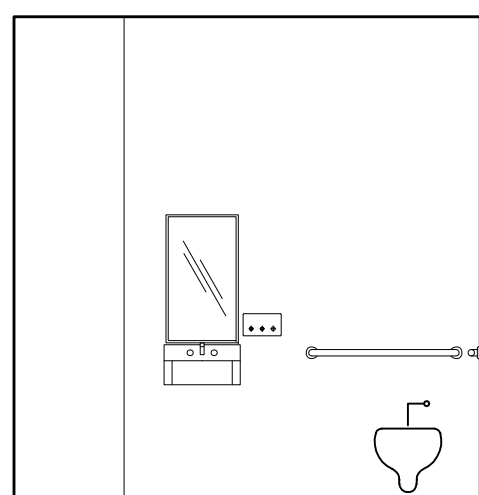
3 ELEVATION  
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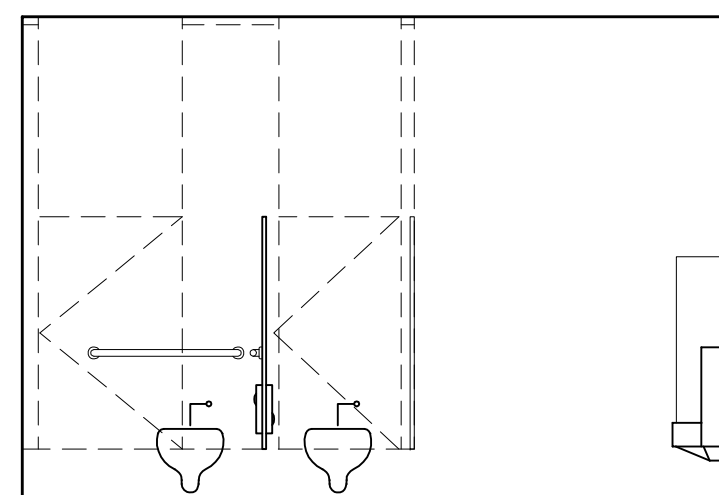
14 ELEVATION  
1/4" = 1'-0"



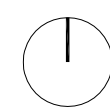
11 ELEVATION  
1/4" = 1'-0"



7 ELEVATION  
1/4" = 1'-0"



4 ELEVATION  
1/4" = 1'-0"



N

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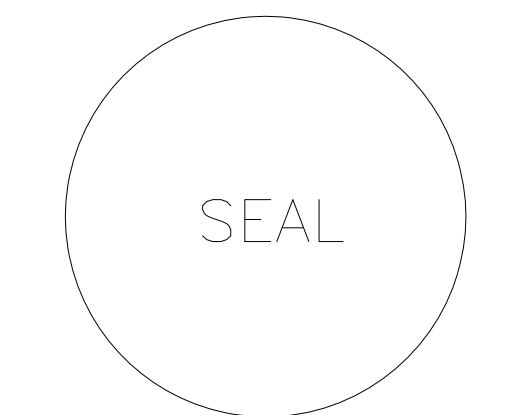
Interior Architects:  
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REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MI  
DESIGNED BY: SBS/TC

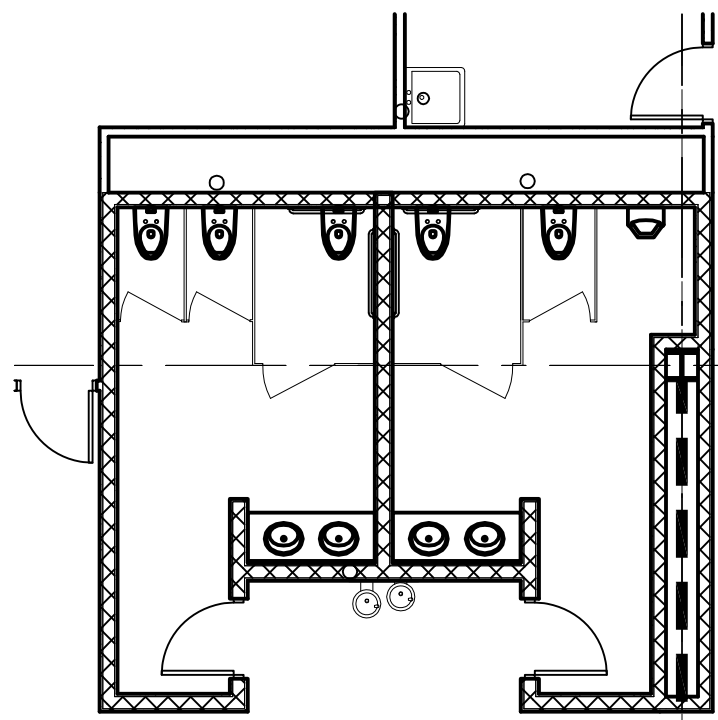
AEP PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**INTERIOR SYSTEMS  
RESTROOMS**

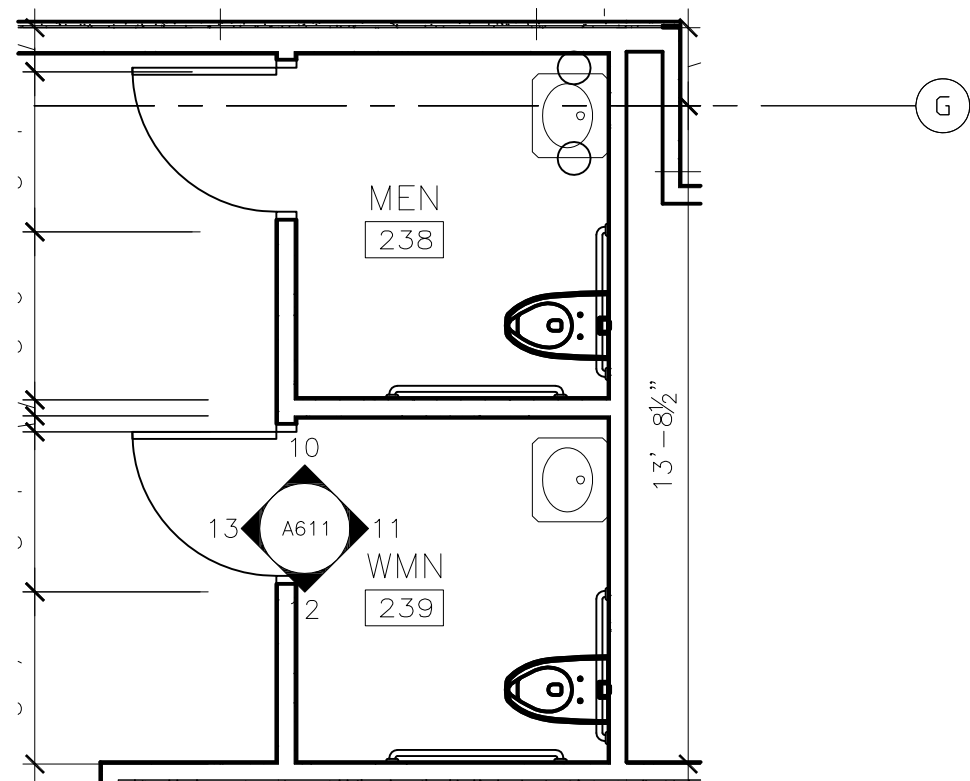
**SHEET NUMBER**  
**A611**

**90% NOT FOR  
CONSTRUCTION**

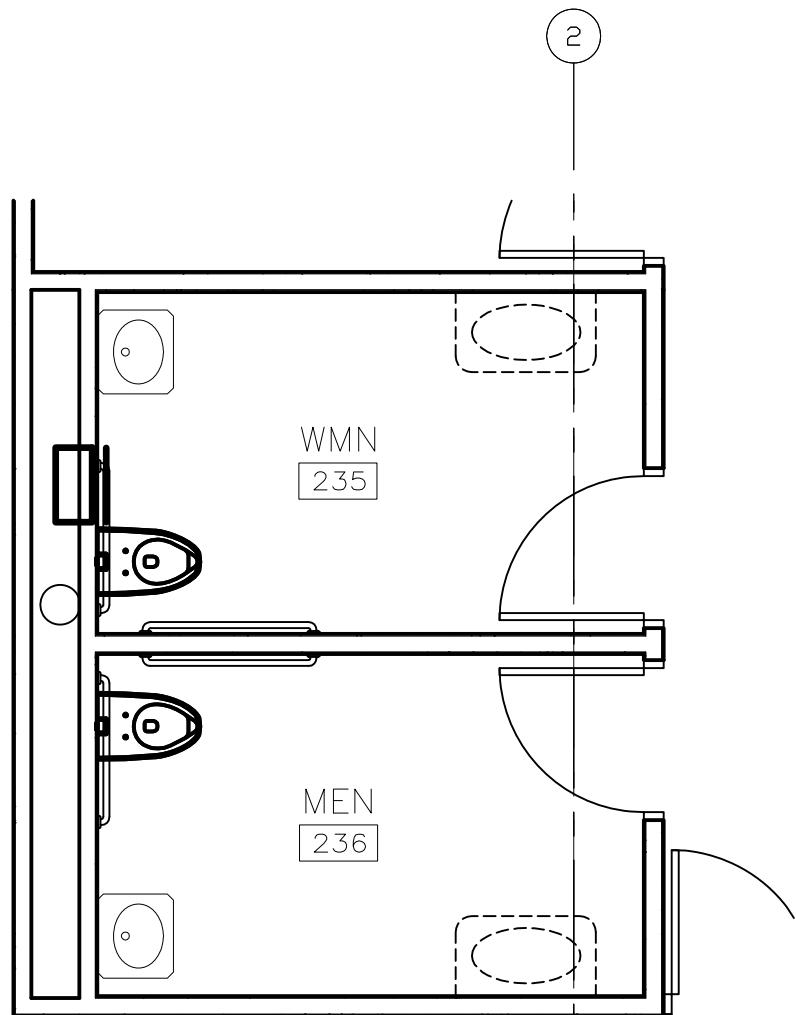




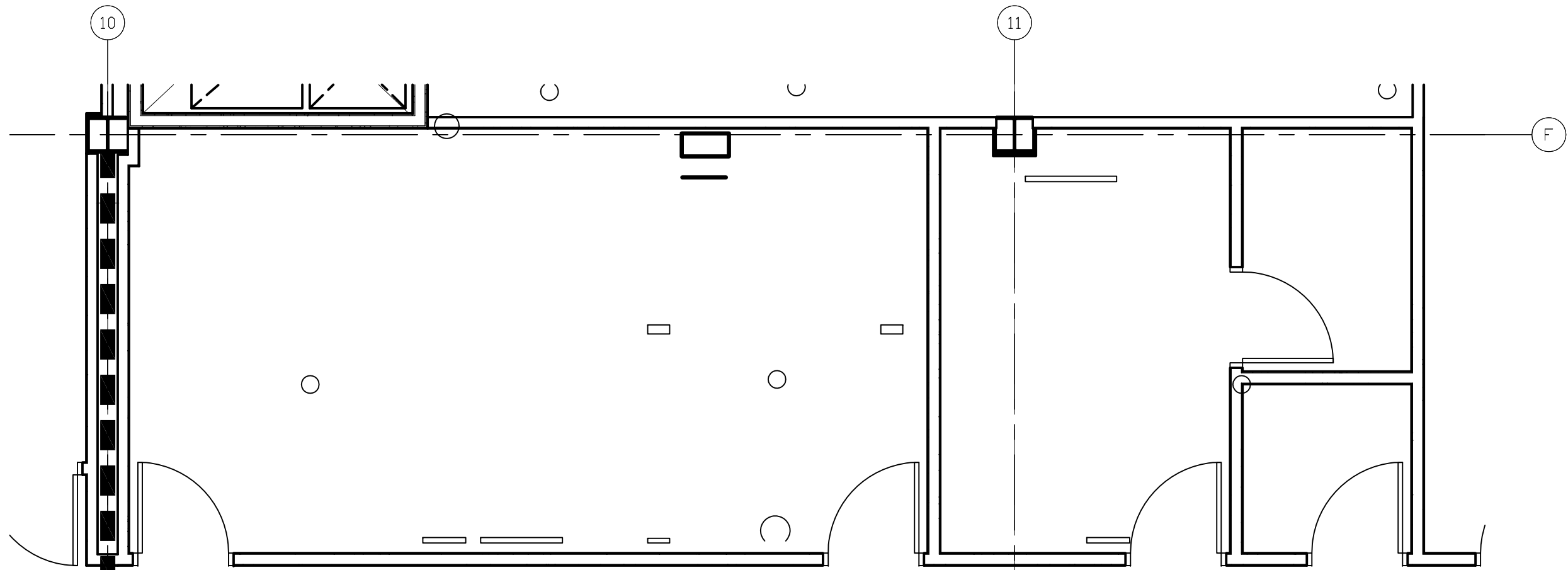
17 ENLARGED PLAN  
1/4" = 1'-0"



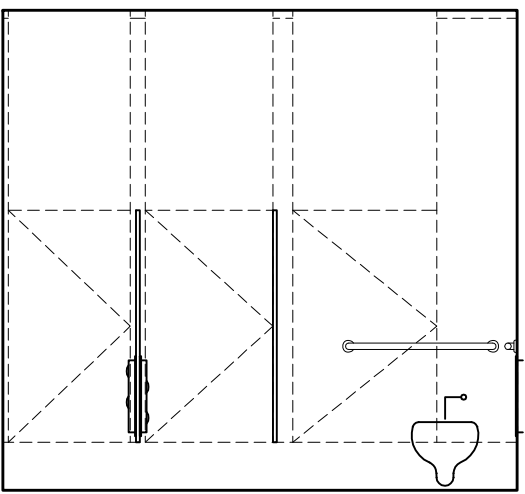
12 ENLARGED PLAN  
1/4" = 1'-0"



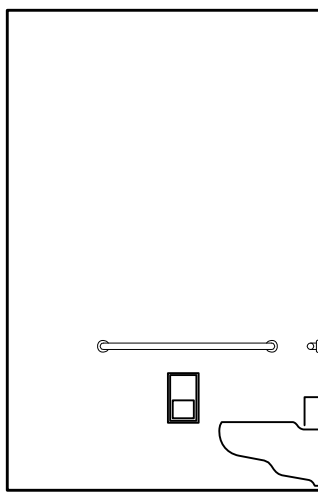
7 ENLARGED PLAN  
1/4" = 1'-0"



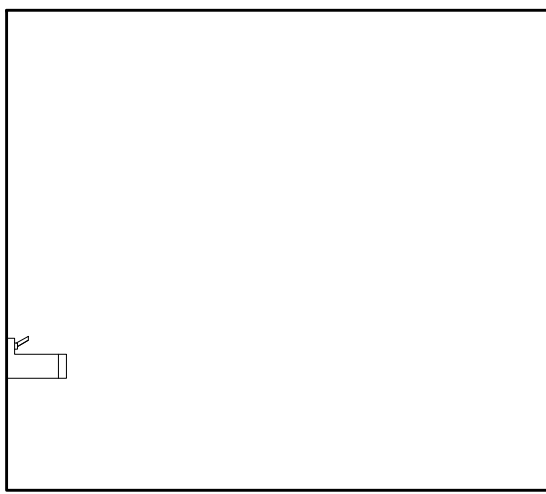
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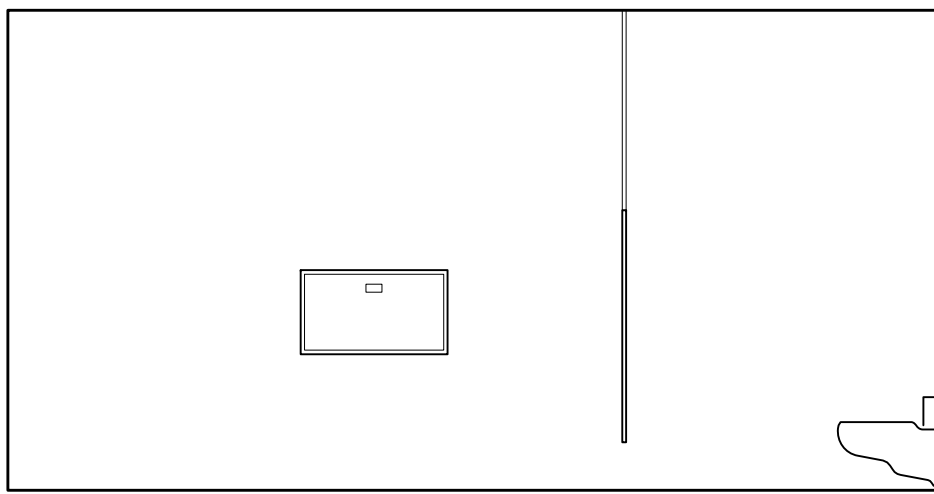
18 ELEVATION  
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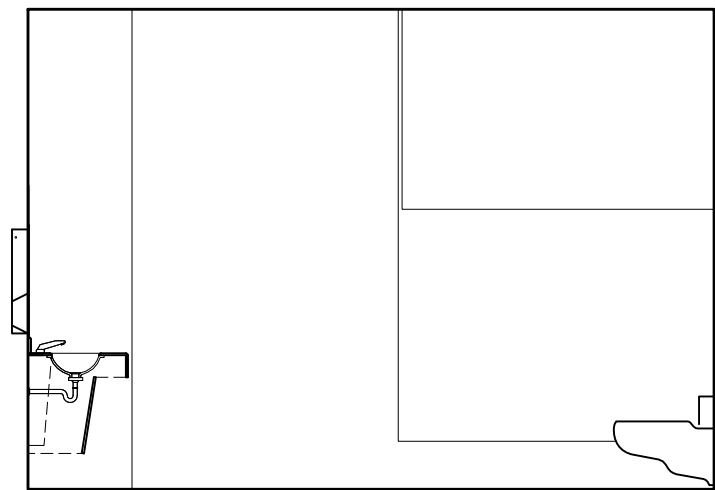
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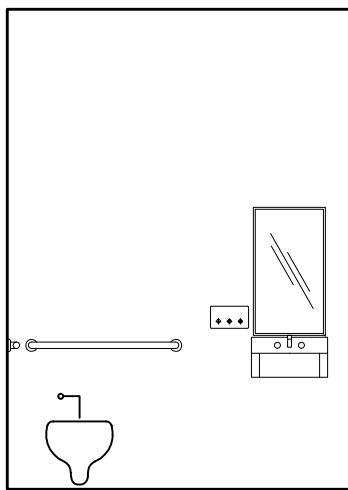
8 ELEVATION  
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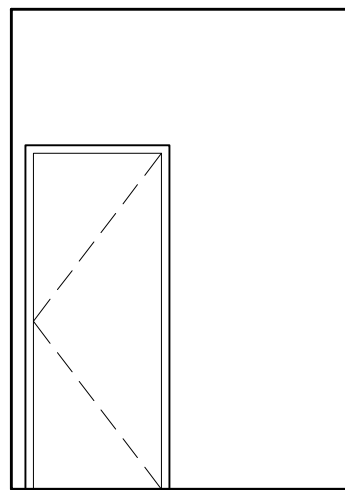
2 ELEVATION  
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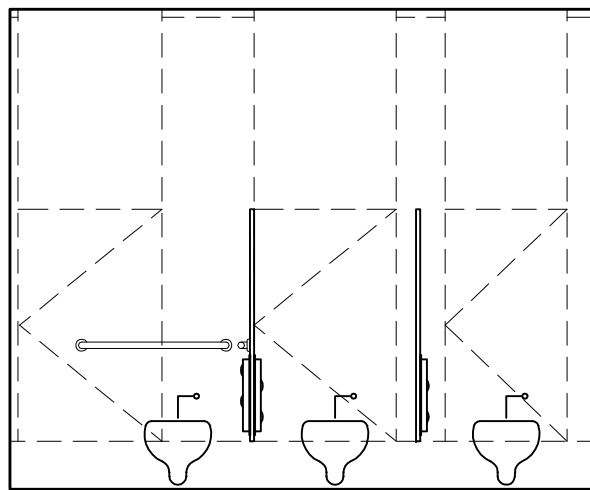
19 ELEVATION  
1/4" = 1'-0"



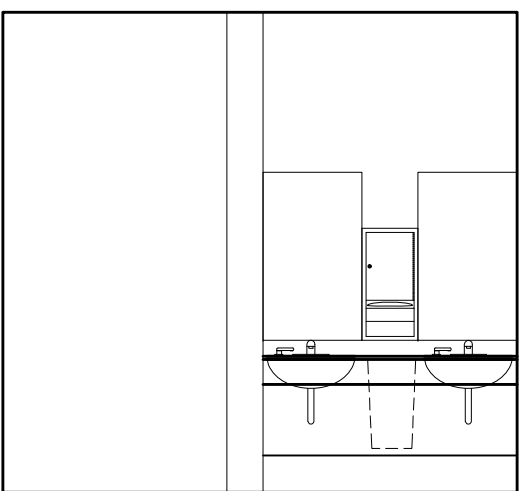
14 ELEVATION  
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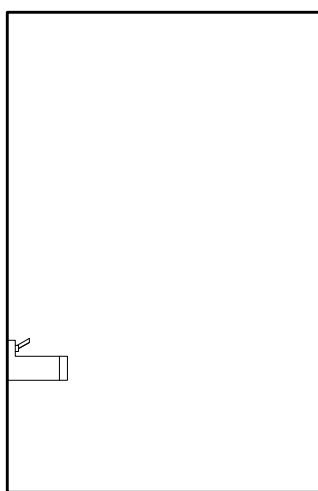
9 ELEVATION  
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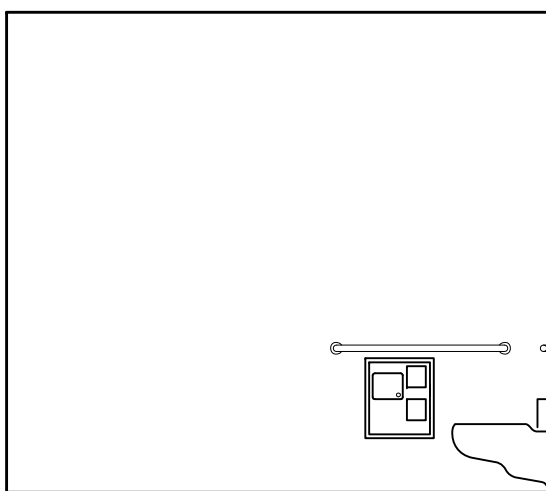
3 ELEVATION  
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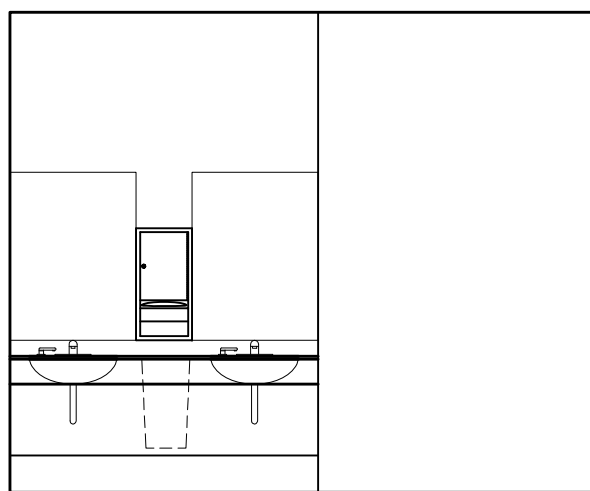
20 ELEVATION  
1/4" = 1'-0"



15 ELEVATION  
1/4" = 1'-0"



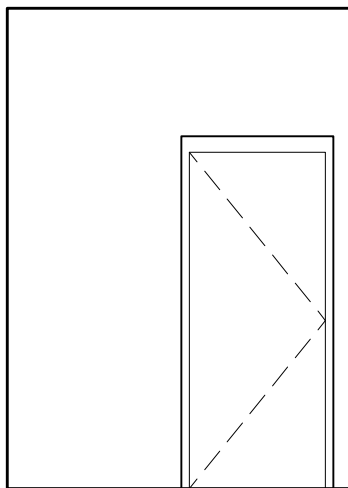
10 ELEVATION  
1/4" = 1'-0"



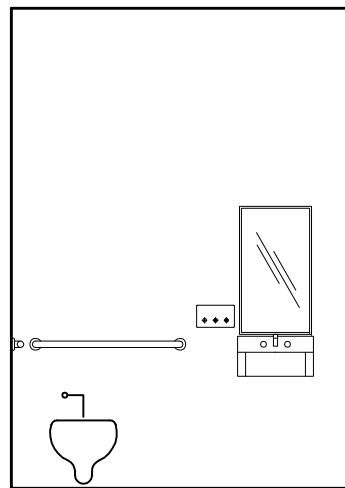
5 ELEVATION  
1/4" = 1'-0"



21 ELEVATION  
1/4" = 1'-0"



16 ELEVATION  
1/4" = 1'-0"



11 ELEVATION  
1/4" = 1'-0"



6 ELEVATION  
1/4" = 1'-0"

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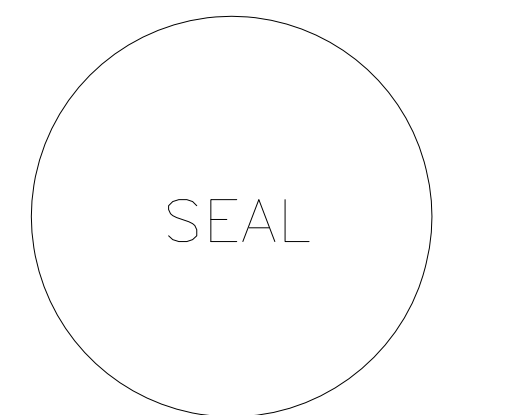
Interior Architects:  
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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MI/MK  
DESIGNED BY: SBS/TC

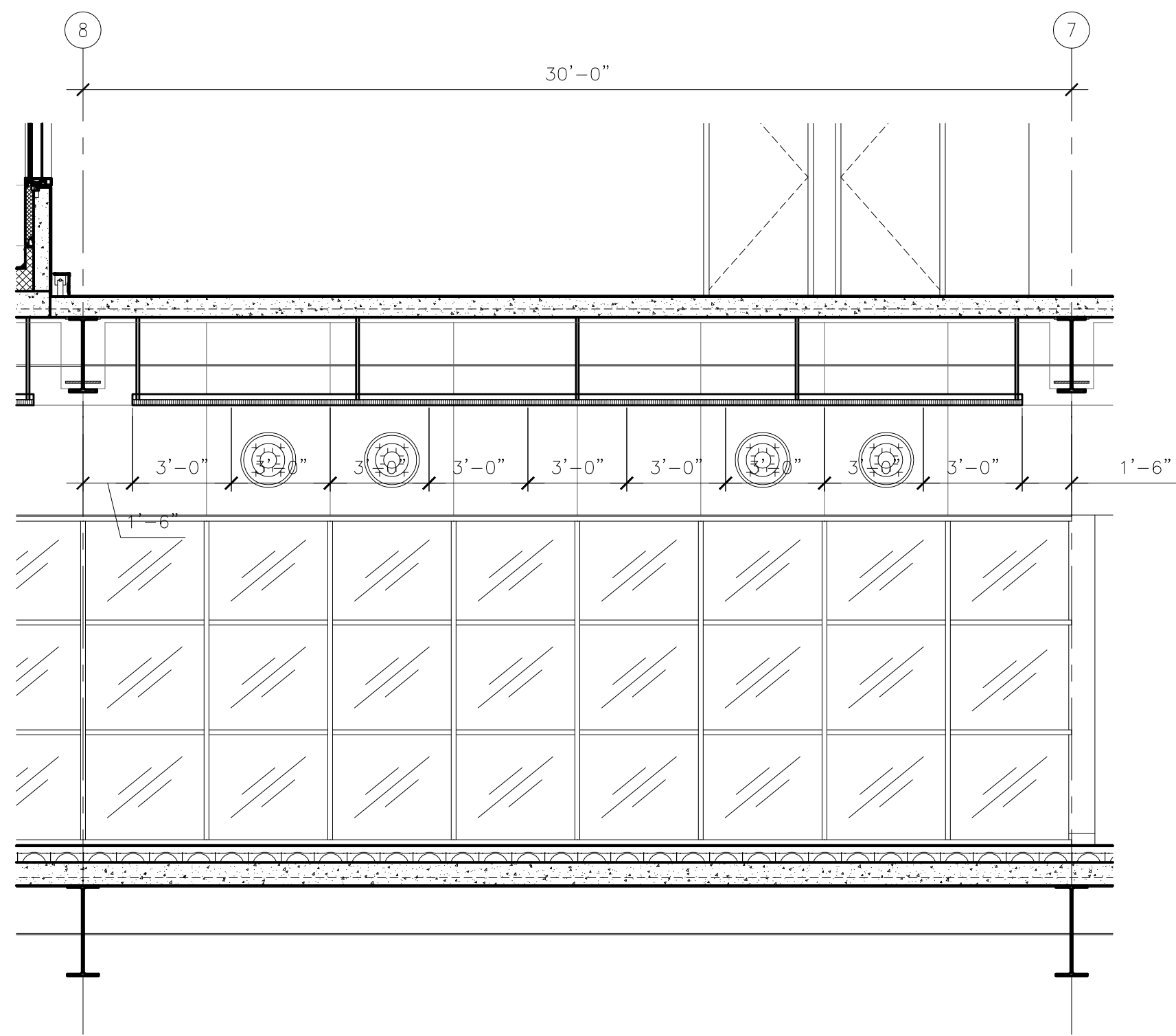
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**213-1882-091**  
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SHEET TITLE  
**INTERIOR SYSTEMS  
RESTROOMS**

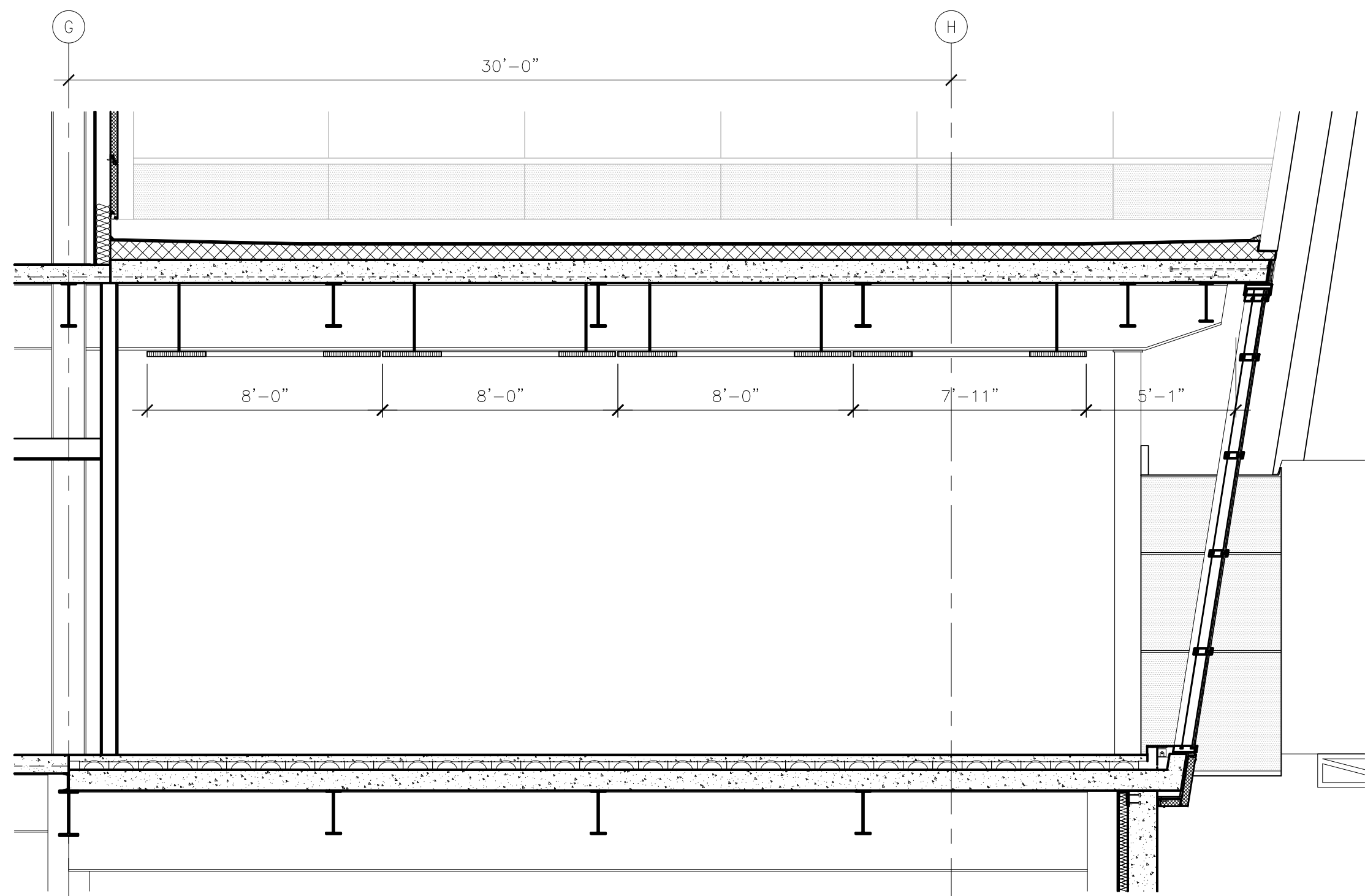
SHEET NUMBER  
**A612**

90% NOT FOR  
CONSTRUCTION

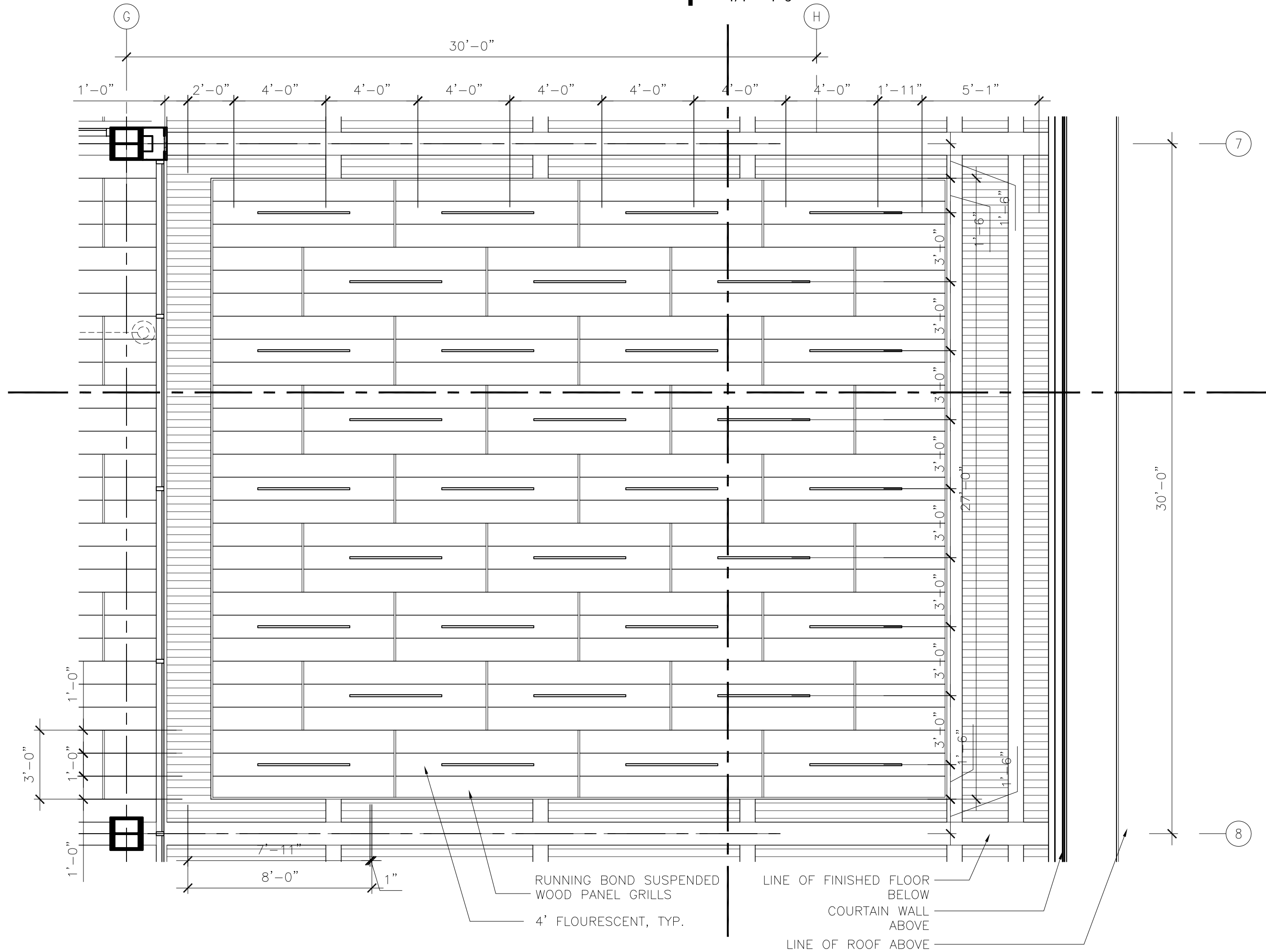




3 ENLARGED PLAN  
1/4" = 1'-0"



1 PARTIAL SECTION  
1/4" = 1'-0"



2 ENLARGED PLAN  
1/4" = 1'-0"

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**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: XX  
DRAWN BY: MK  
DESIGNED BY: TC

A&P PROJECT NUMBER  
**213-1882-091**  
xxx.dwg 04-12-10 12:00p  
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**SHEET TITLE**  
**INTERIOR  
SYSTEM SHEET  
CEILINGS**

**SHEET NUMBER**  
**A620**

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CONSTRUCTION**



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NO.	DESCRIPTION	DATE

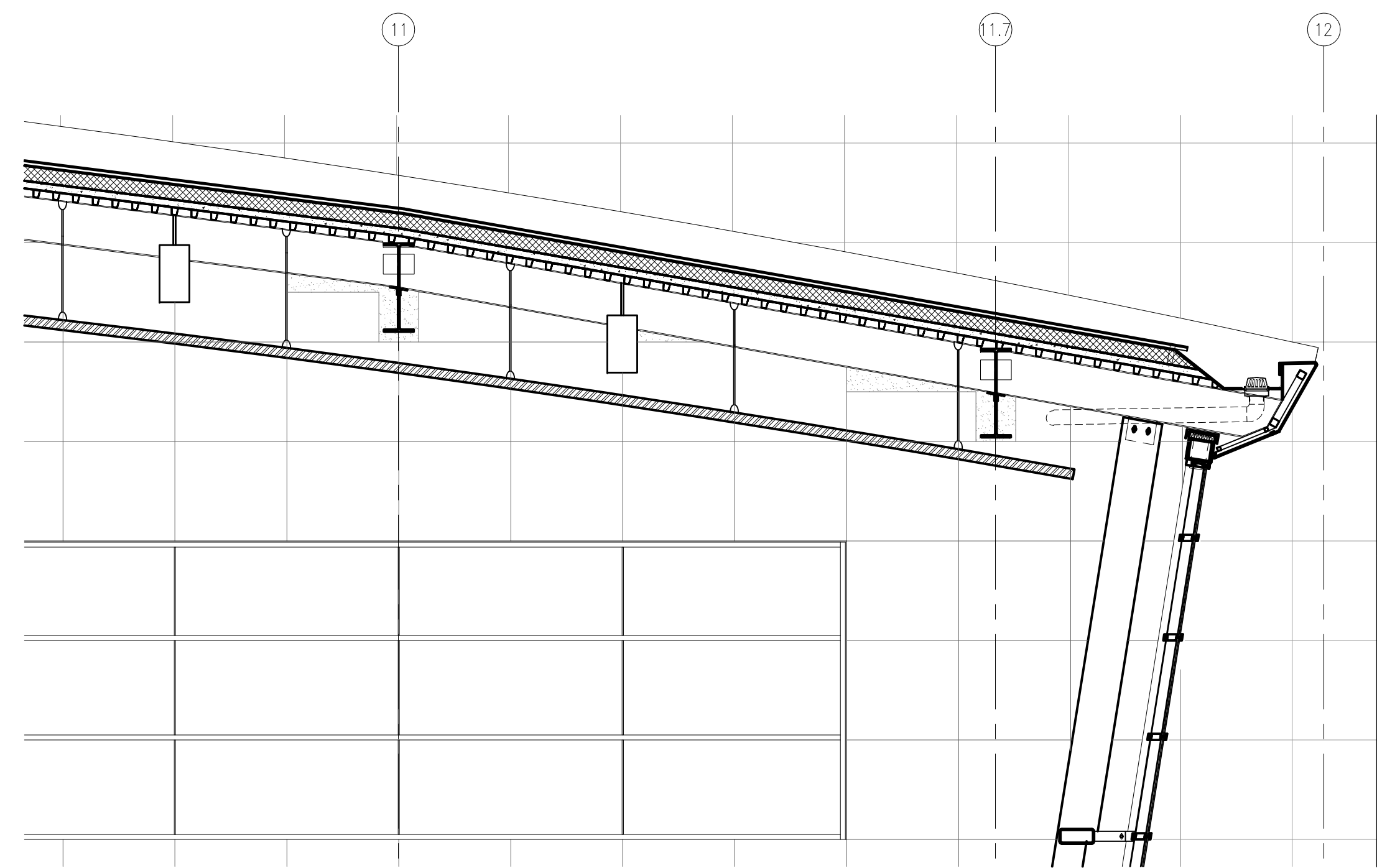
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REVIEWED BY: XX  
DRAWN BY: XX  
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**213-1882-091**  
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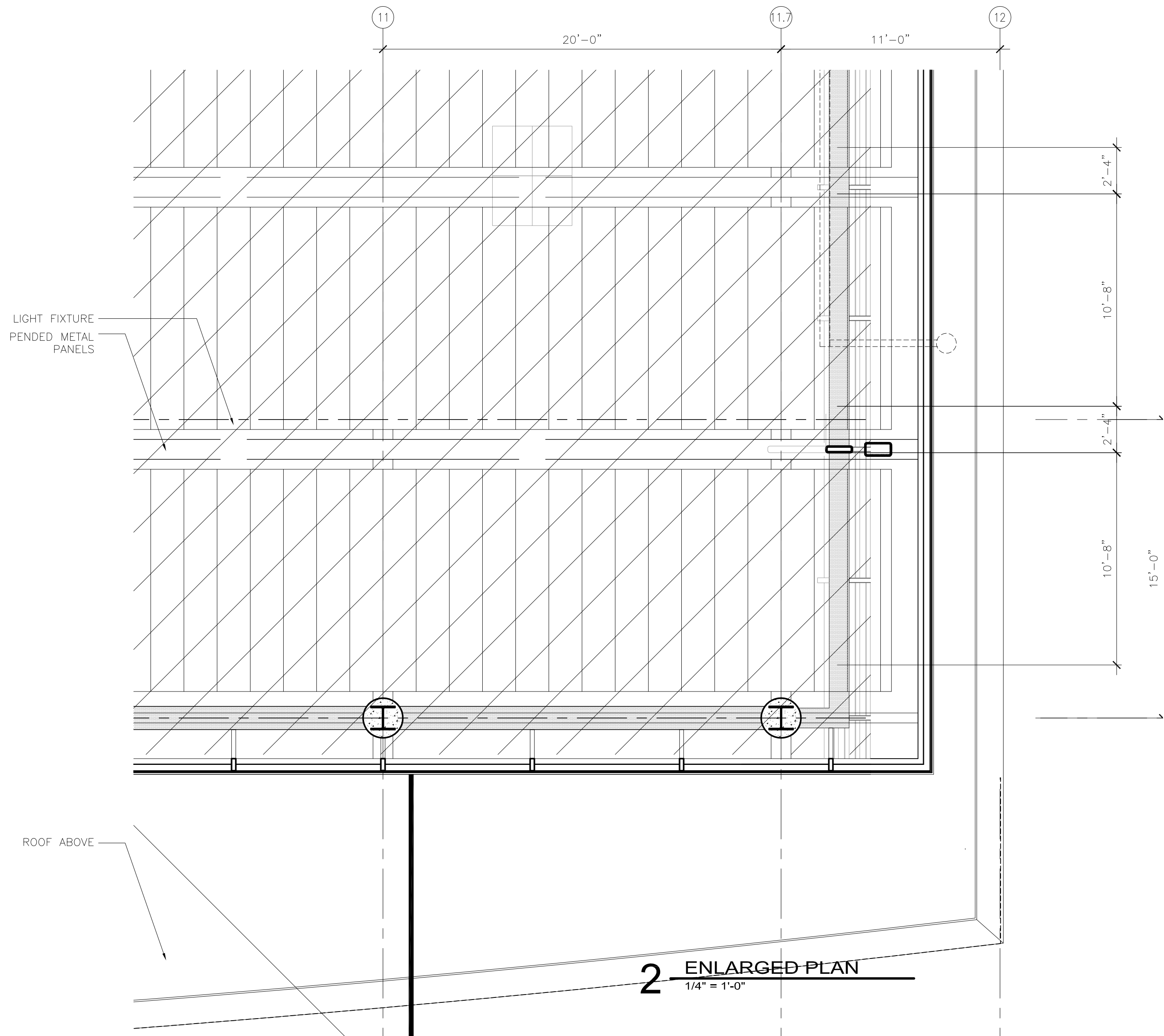
SHEET TITLE  
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.  
.  
.

SHEET NUMBER  
**A621**

90% NOT FOR  
CONSTRUCTION



**1 PARTIAL SECTION**  
1/4" = 1'-0"



**2 ENLARGED PLAN**  
1/4" = 1'-0"





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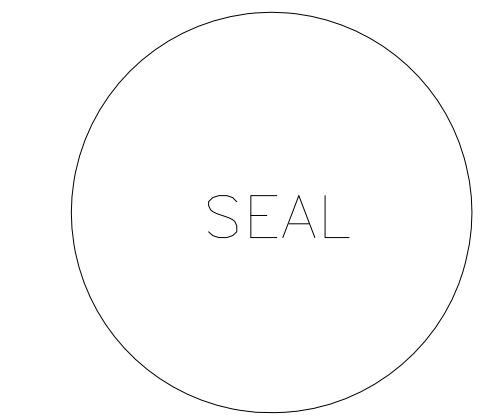
Interior Architects:  
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NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: XX  
DRAWN BY: XX  
DESIGNED BY: XX

AEP PROJECT NUMBER  
213-1882-091  
XXX.DWG 10:00-12:00p  
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SHEET TITLE  
INTERIOR SYSTEM  
SHEET  
CEILINGS

SHEET NUMBER  
A622

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CONSTRUCTION

1 PARTIAL SECTION  
1/4" = 1'-0"

2 ENLARGED PLAN  
1/4" = 1'-0"



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**REVISIONS**

NO.	DESCRIPTION	DATE

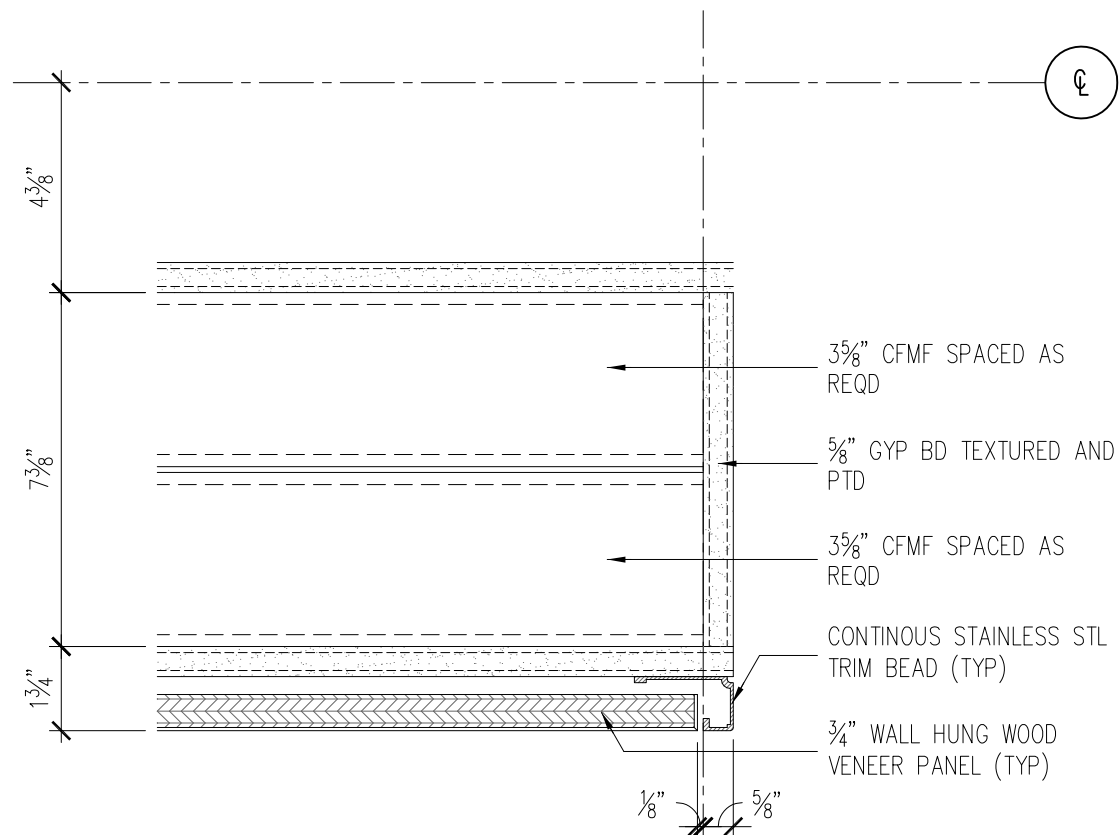
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

A&P PROJECT NUMBER  
**213-1882-091**  
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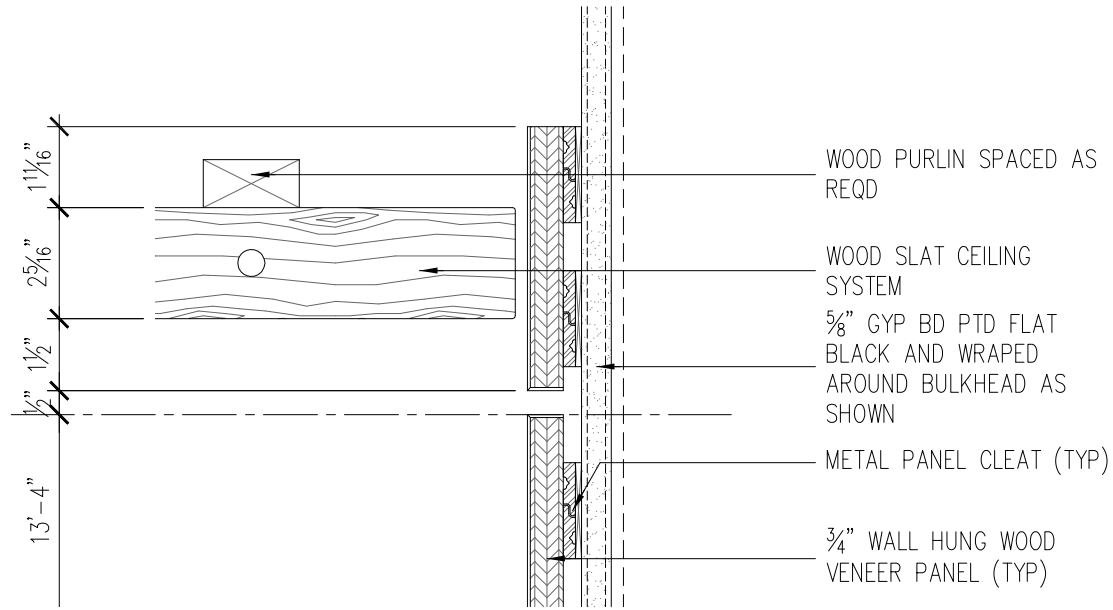
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**FEATURE  
WALL SYSTEM  
DETAILS**

**SHEET NUMBER**  
**A623**

**90% NOT FOR  
CONSTRUCTION**

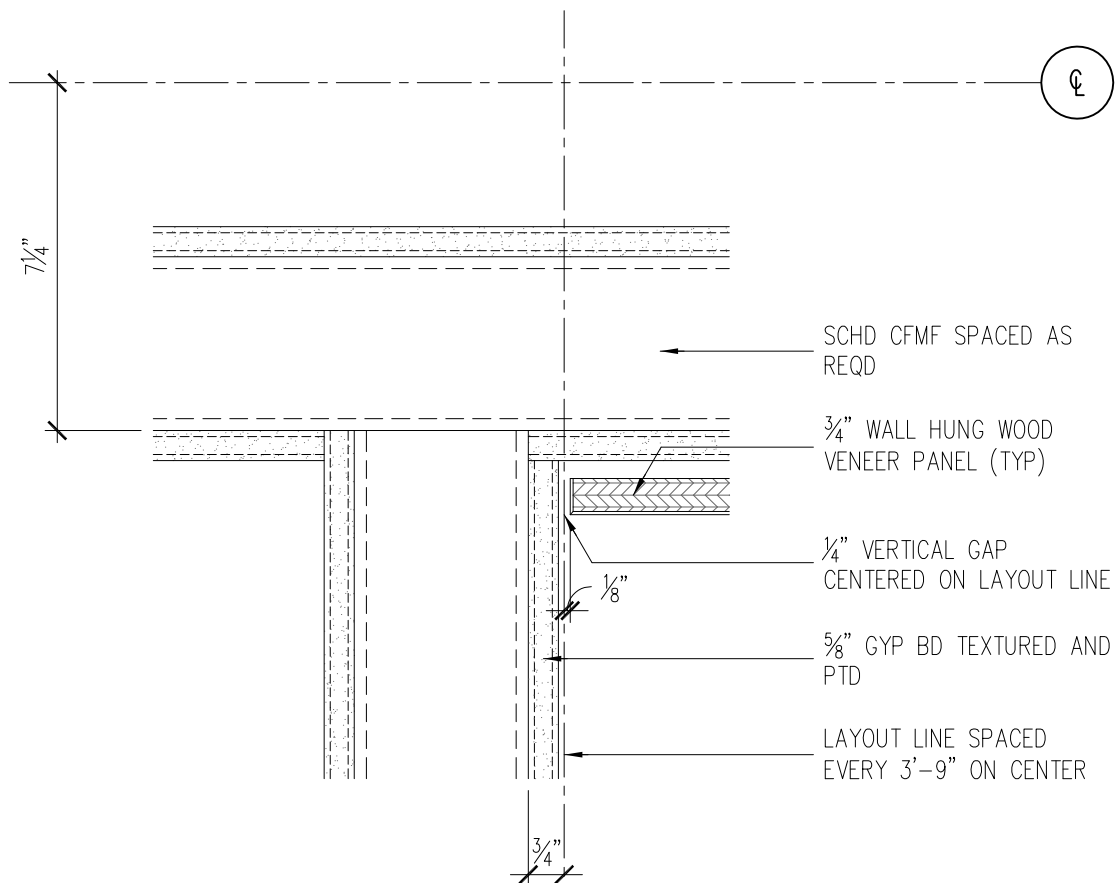


**5** **EDGE DETAIL AT OPENING**  
3" = 1'-0"

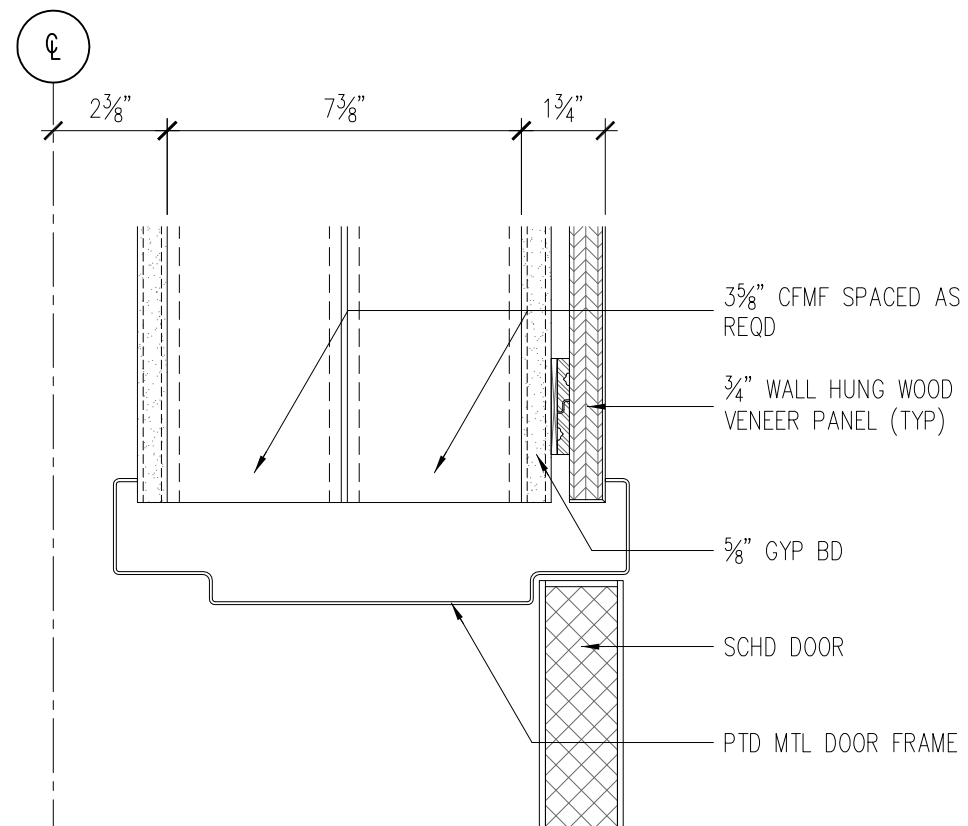


**1** **CEILING DETAIL AT MEZZANINE**  
3" = 1'-0"

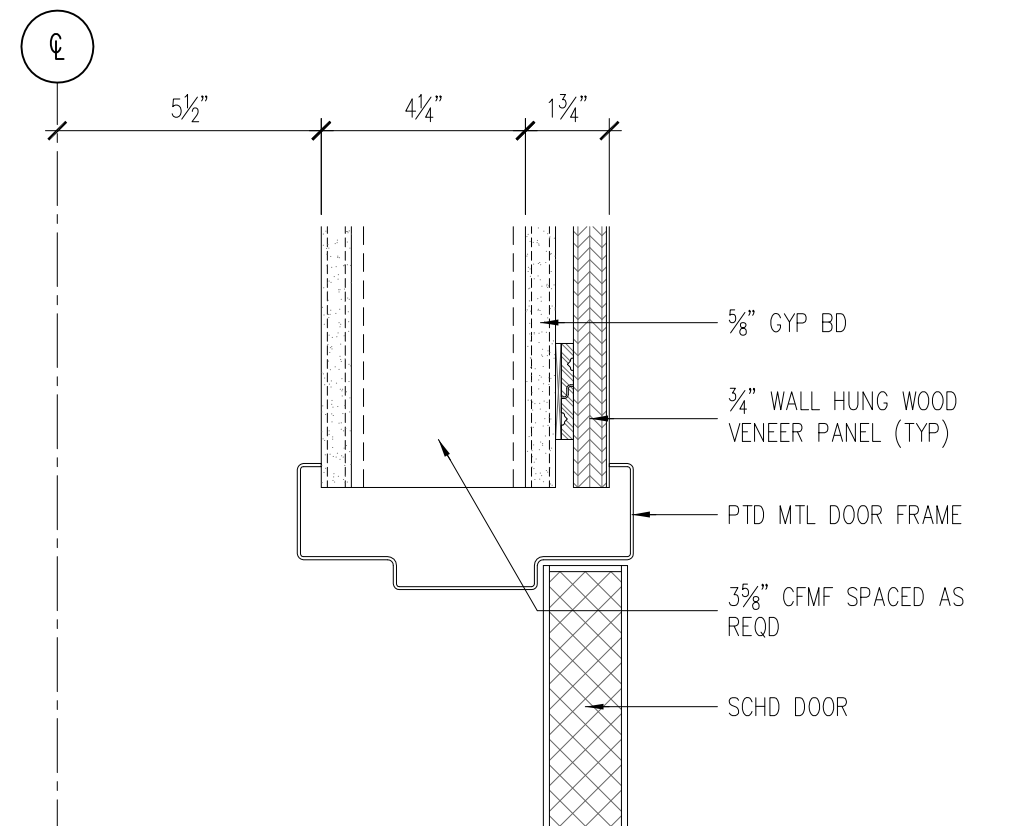
**9** **NOT USED**



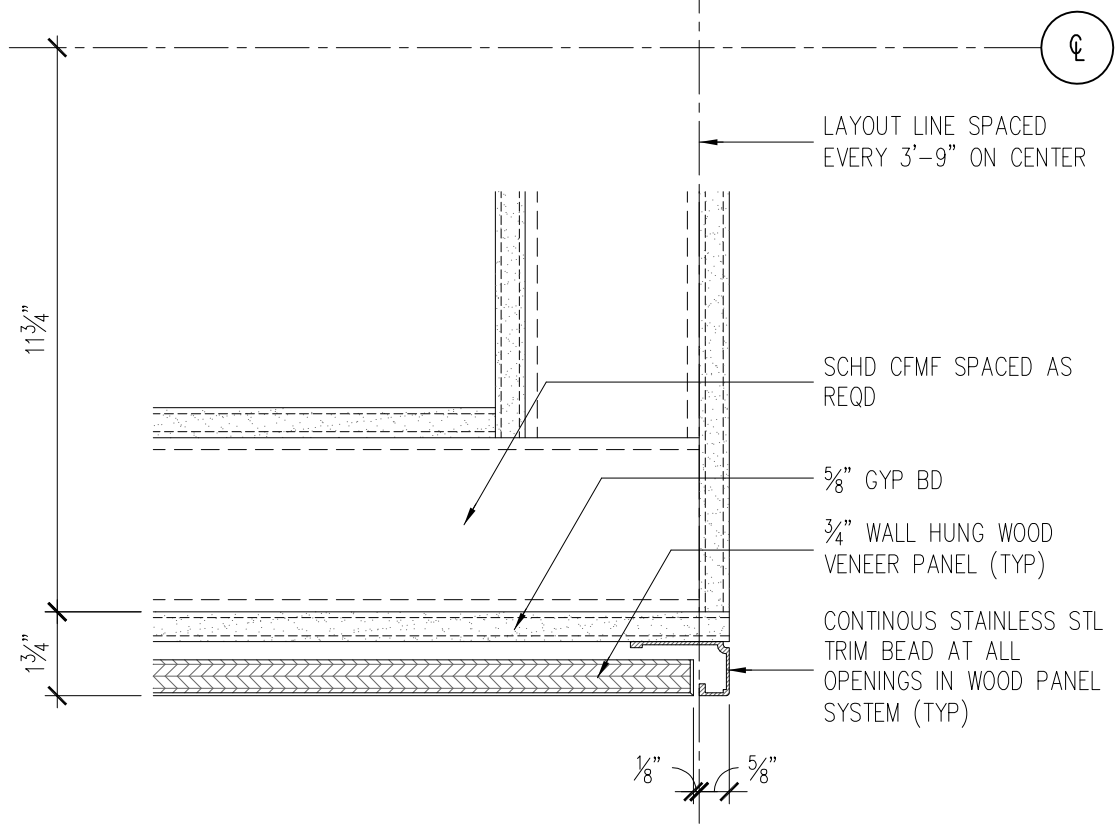
**10** **INSIDE CORNER DETAIL**  
3" = 1'-0"



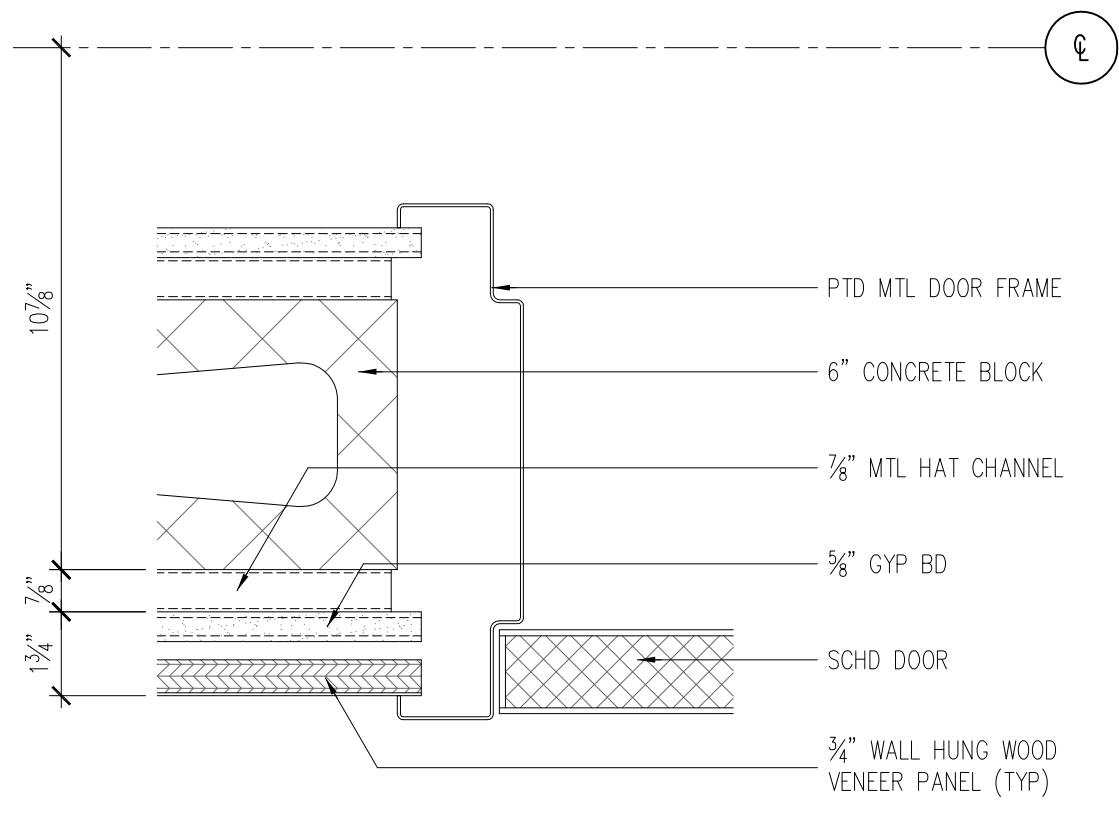
**6** **DOOR HEAD DETAIL**  
3" = 1'-0"



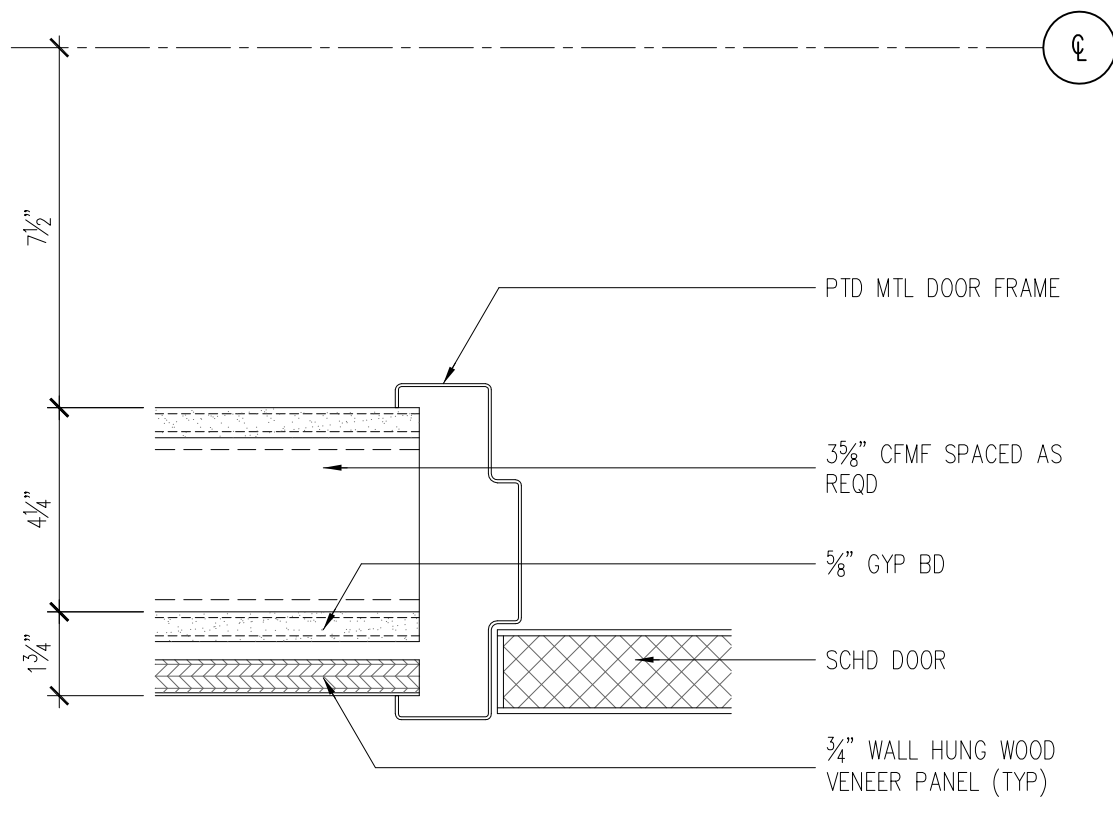
**2** **DOOR HEAD DETAIL**  
3" = 1'-0"



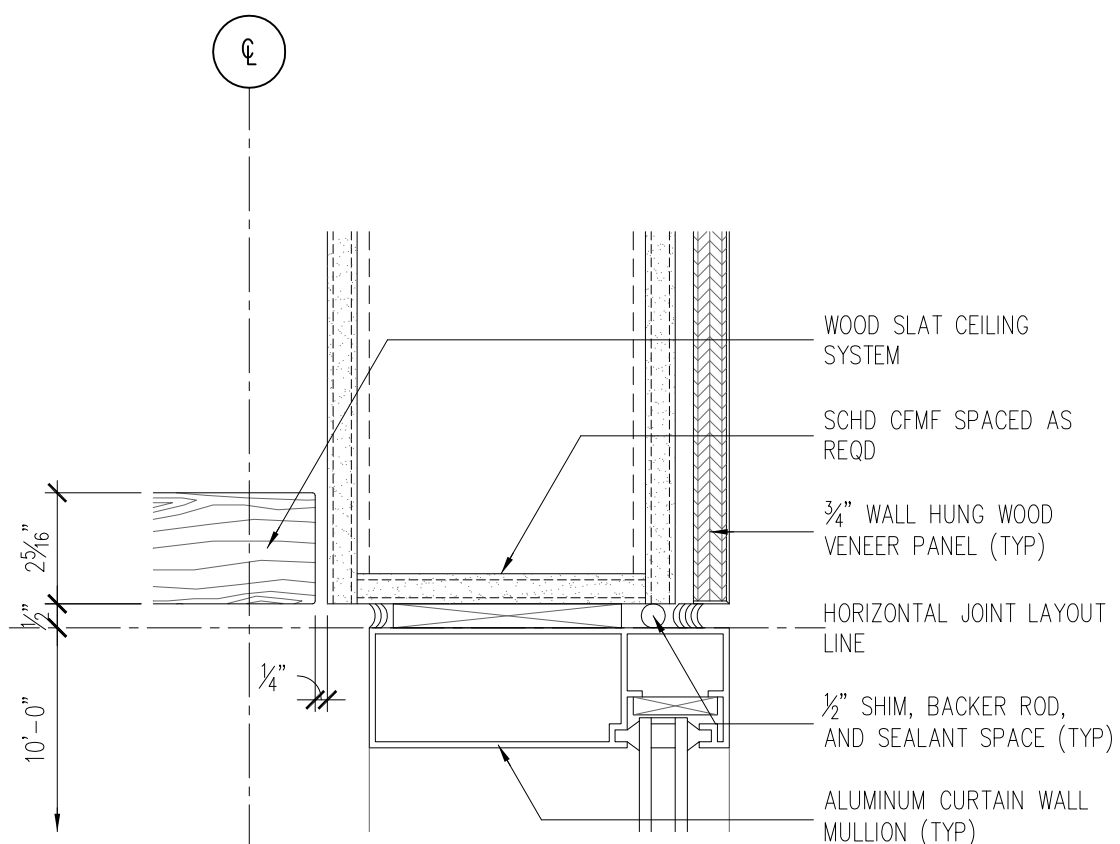
**11** **EDGE DETAIL AT OPENING**  
3" = 1'-0"



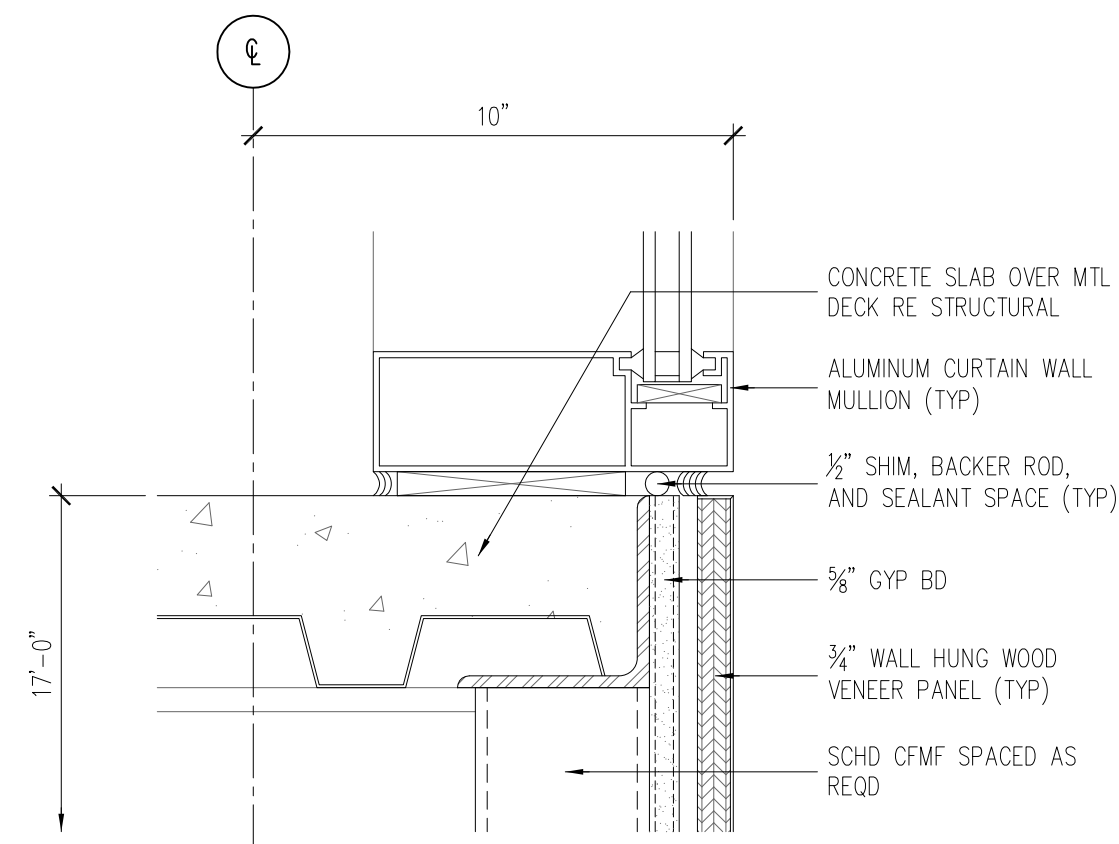
**7** **DOOR JAMB DETAIL IN CMU WALL**  
3" = 1'-0"



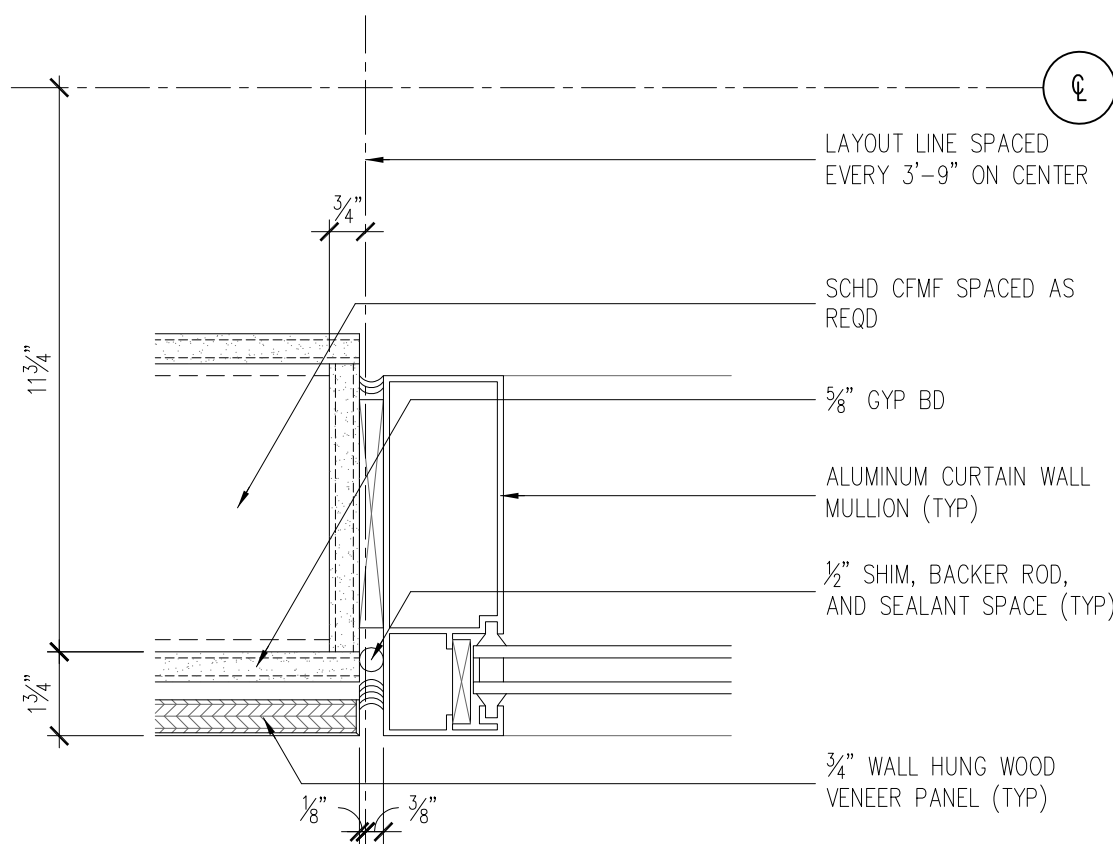
**3** **DOOR JAMB DETAIL**  
3" = 1'-0"



**12** **STOREFRONT SYSTEM HEAD DETAIL**  
3" = 1'-0"



**8** **STOREFRONT SYSTEM BASE DETAIL**  
3" = 1'-0"



**4** **STOREFRONT SYSTEM JAMB DETAIL**  
3" = 1'-0"

**13** **NOT USED**



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NO.	DESCRIPTION	DATE

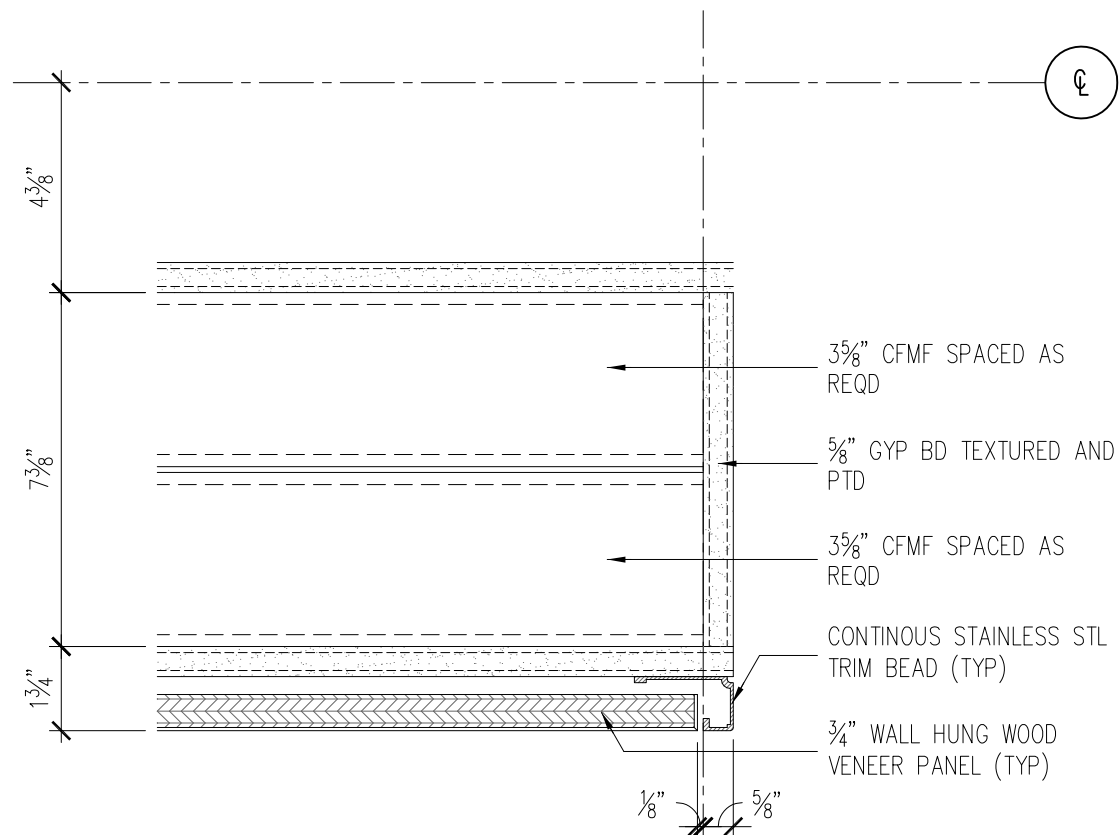
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
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**213-1882-091**  
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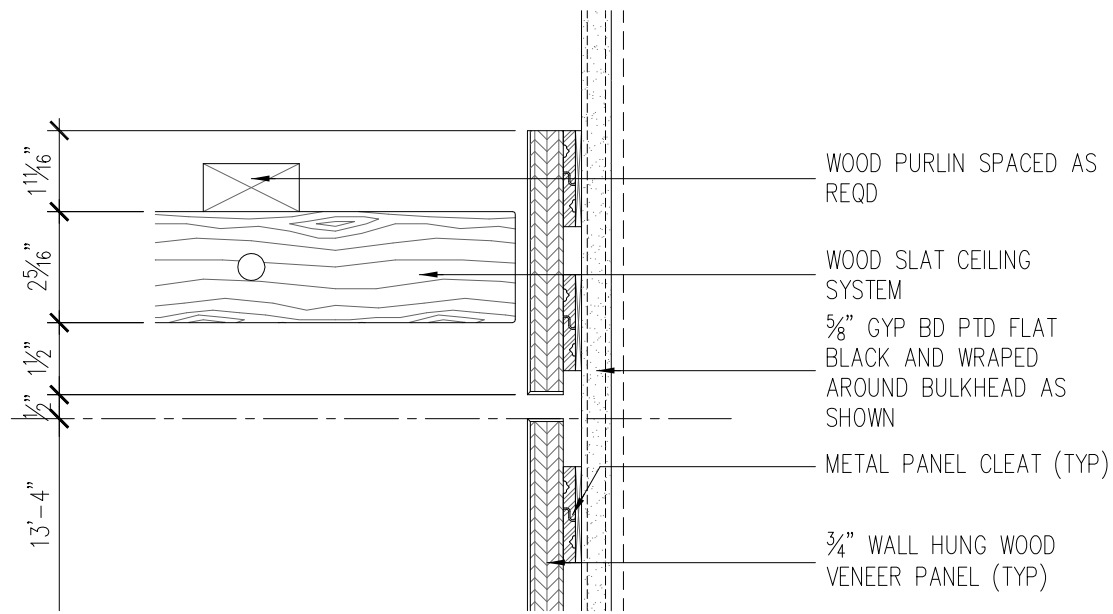
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**FEATURE  
WALL SYSTEM  
DETAILS**

**SHEET NUMBER**  
**A624**

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CONSTRUCTION**

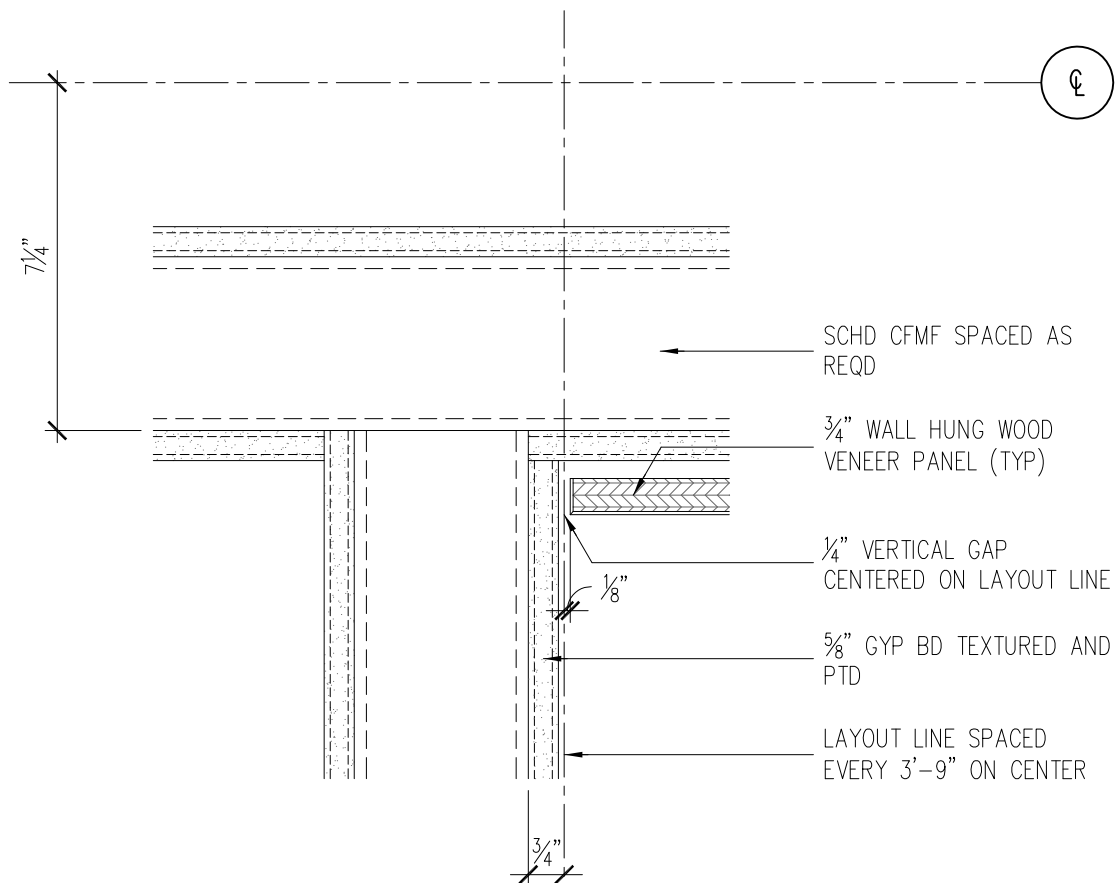


**5** **EDGE DETAIL AT OPENING**  
3" = 1'-0"

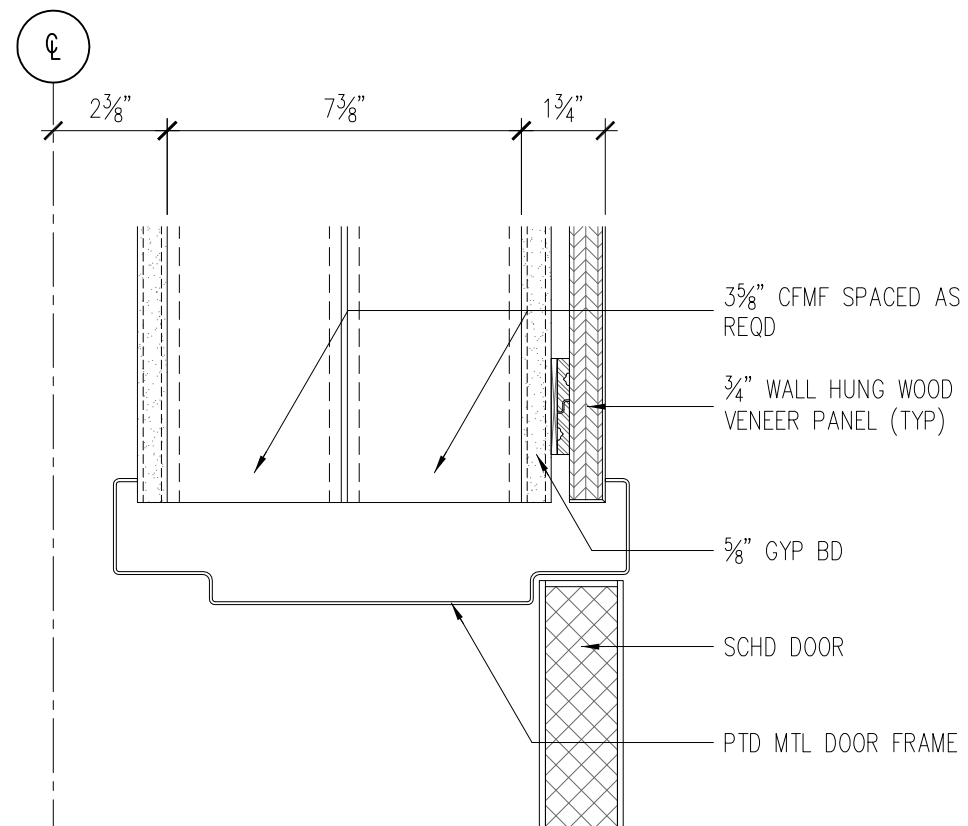


**1** **CEILING DETAIL AT MEZZANINE**  
3" = 1'-0"

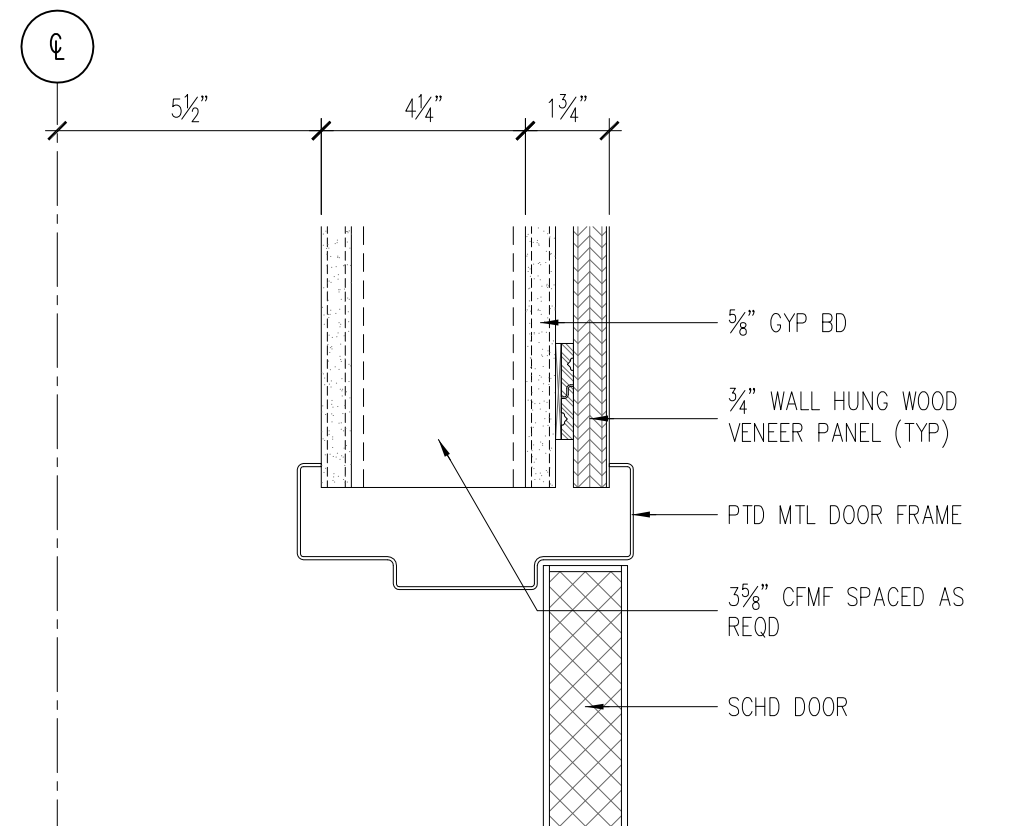
**9** **NOT USED**



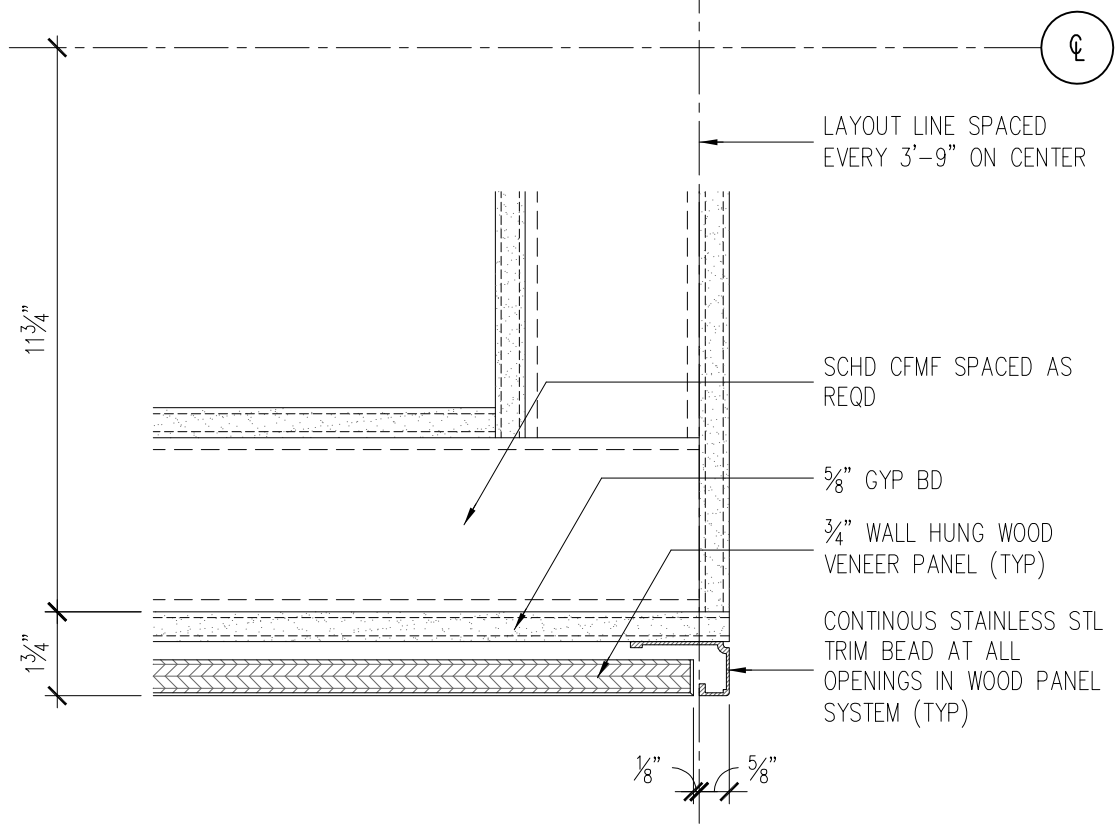
**10** **INSIDE CORNER DETAIL**  
3" = 1'-0"



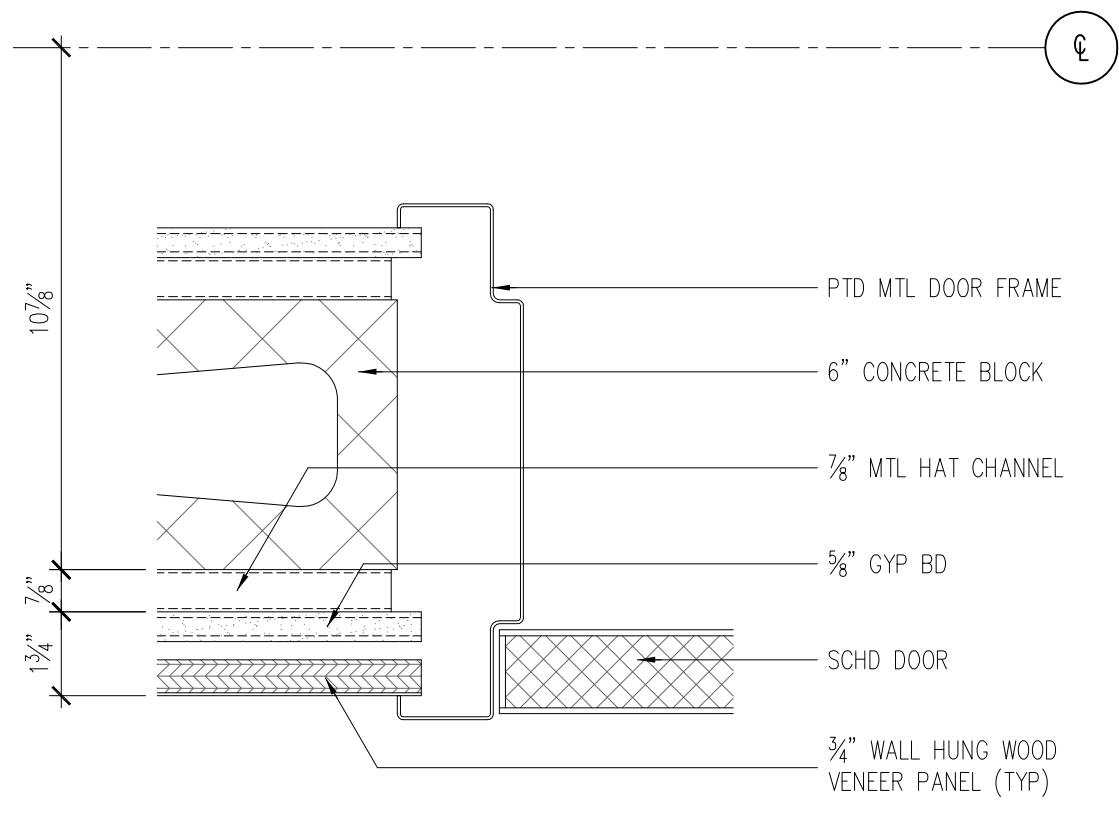
**6** **DOOR HEAD DETAIL**  
3" = 1'-0"



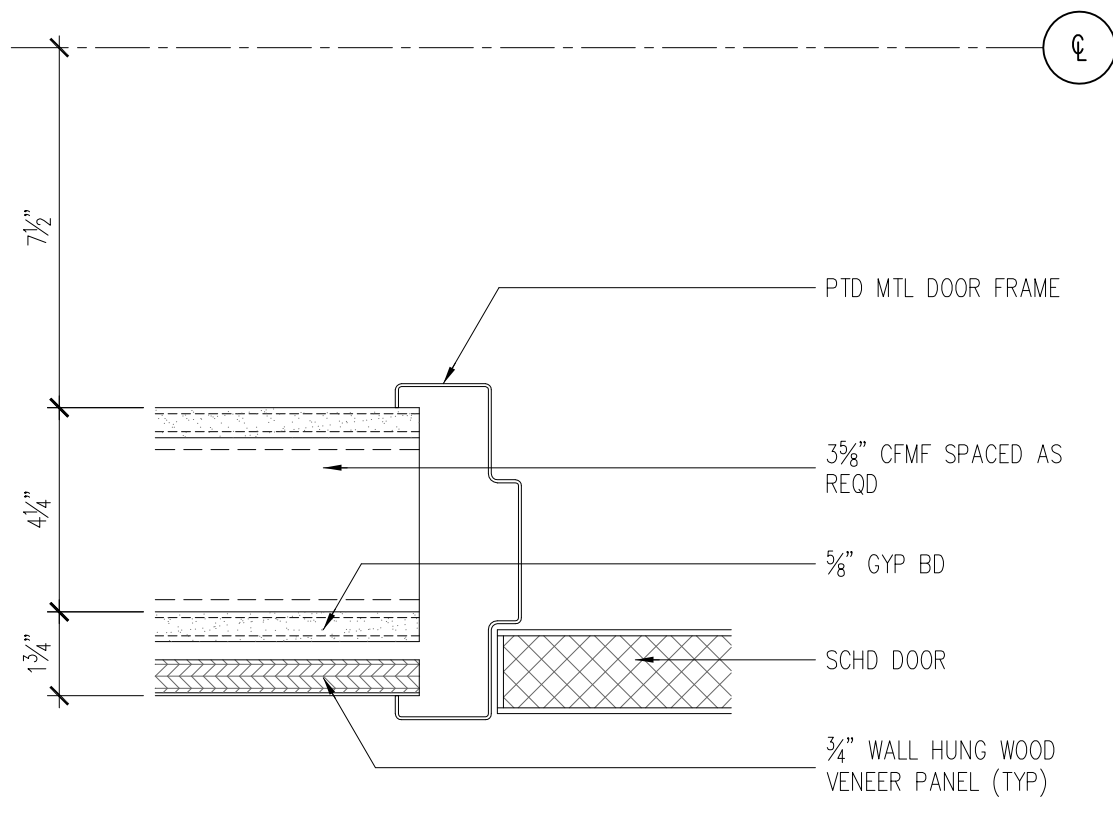
**2** **DOOR HEAD DETAIL**  
3" = 1'-0"



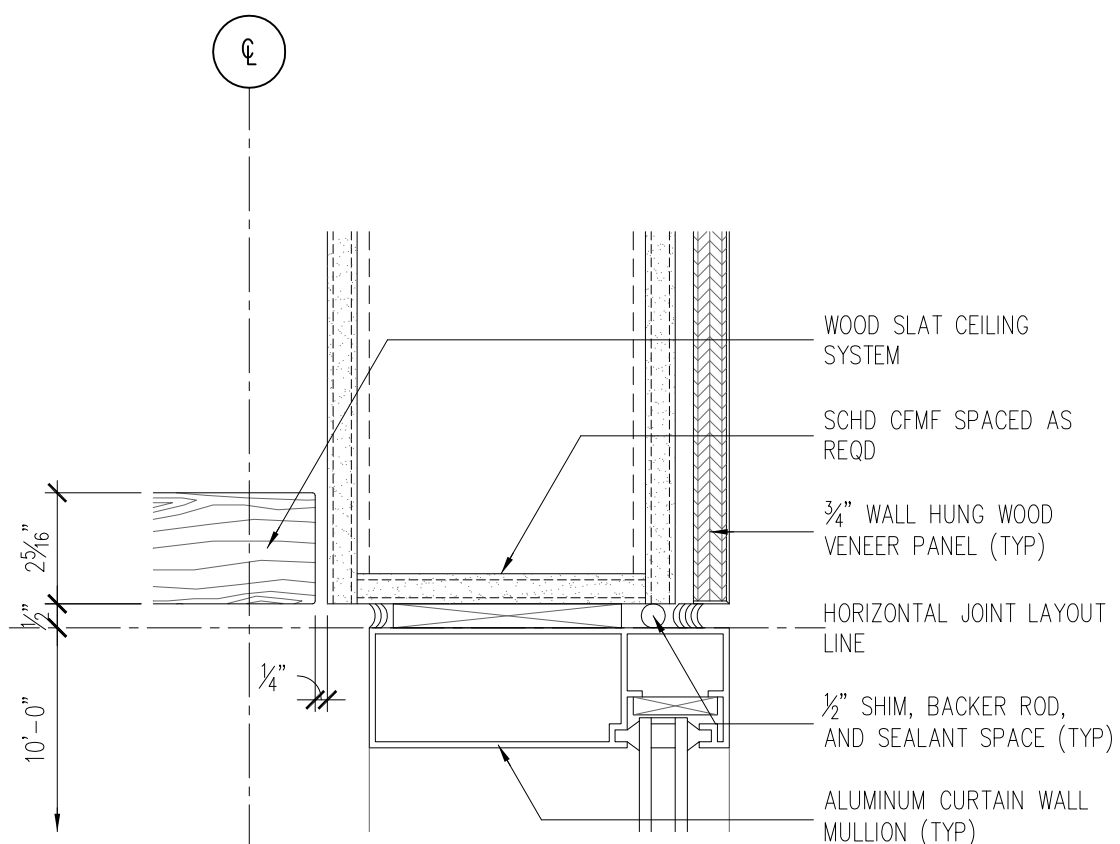
**11** **EDGE DETAIL AT OPENING**  
3" = 1'-0"



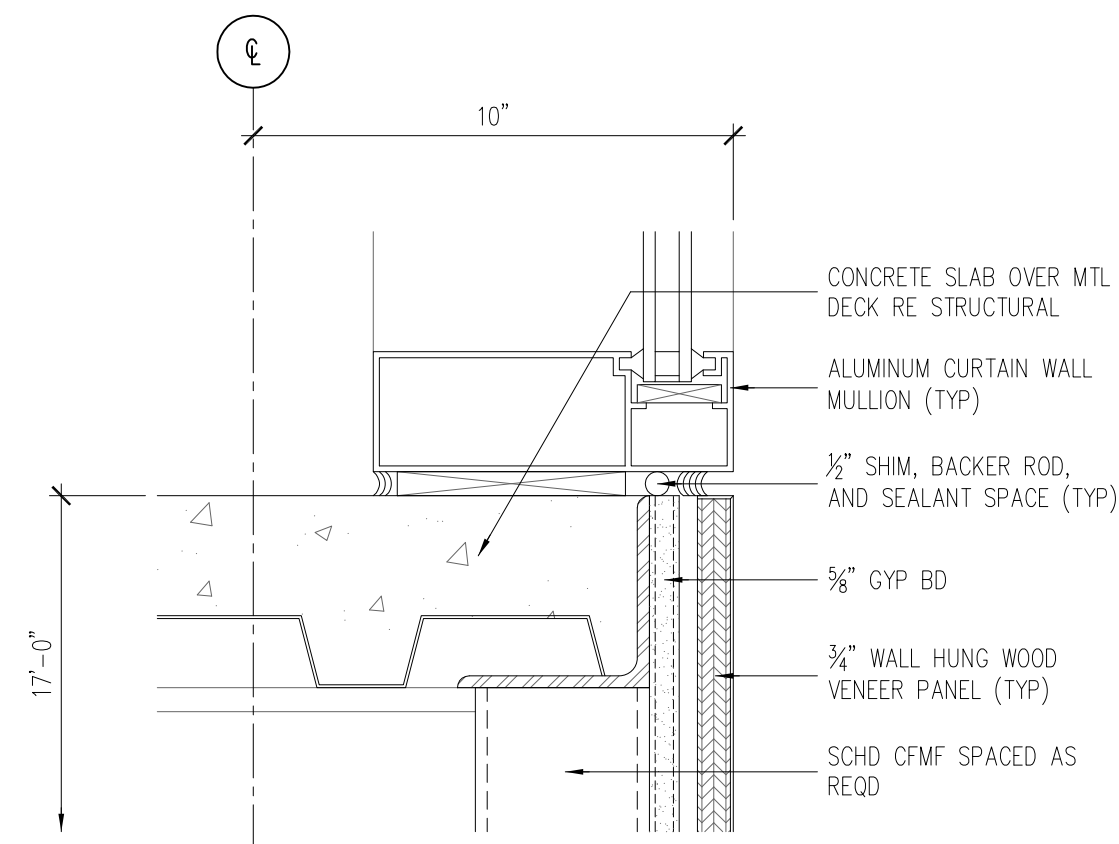
**7** **DOOR JAMB DETAIL IN CMU WALL**  
3" = 1'-0"



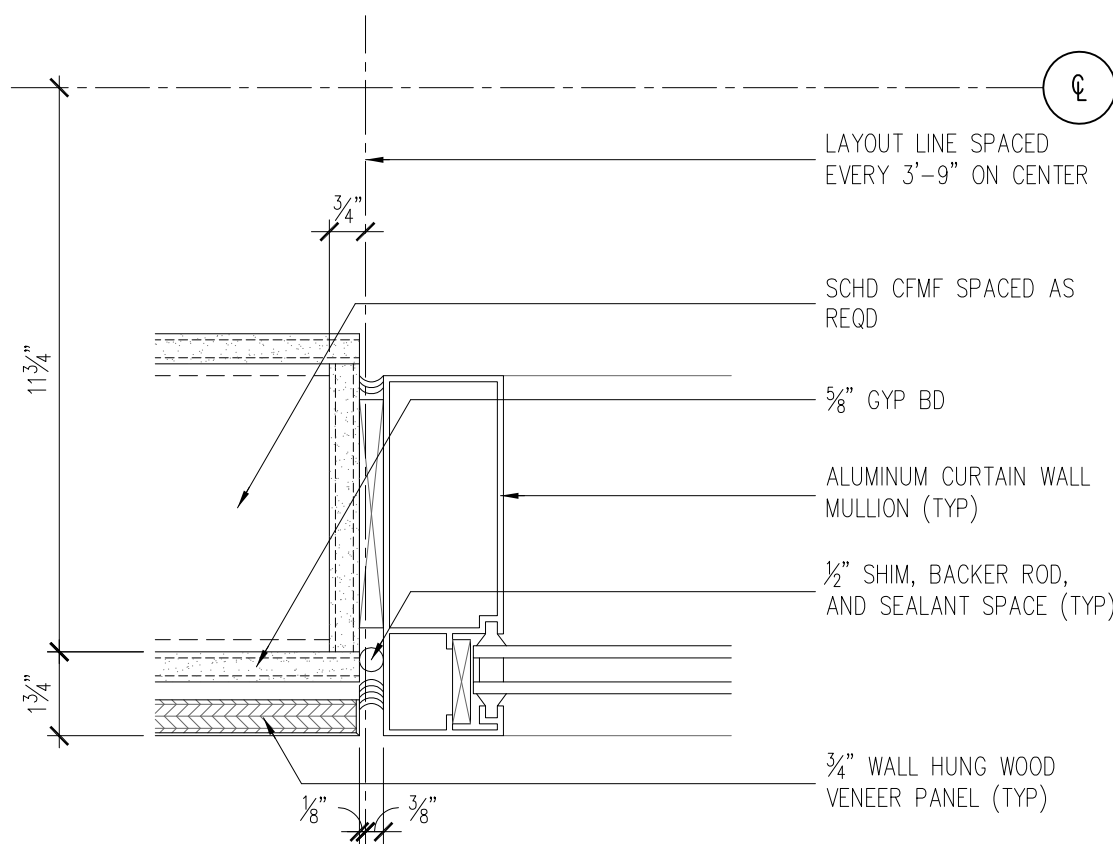
**3** **DOOR JAMB DETAIL**  
3" = 1'-0"



**12** **STOREFRONT SYSTEM HEAD DETAIL**  
3" = 1'-0"



**8** **STOREFRONT SYSTEM BASE DETAIL**  
3" = 1'-0"



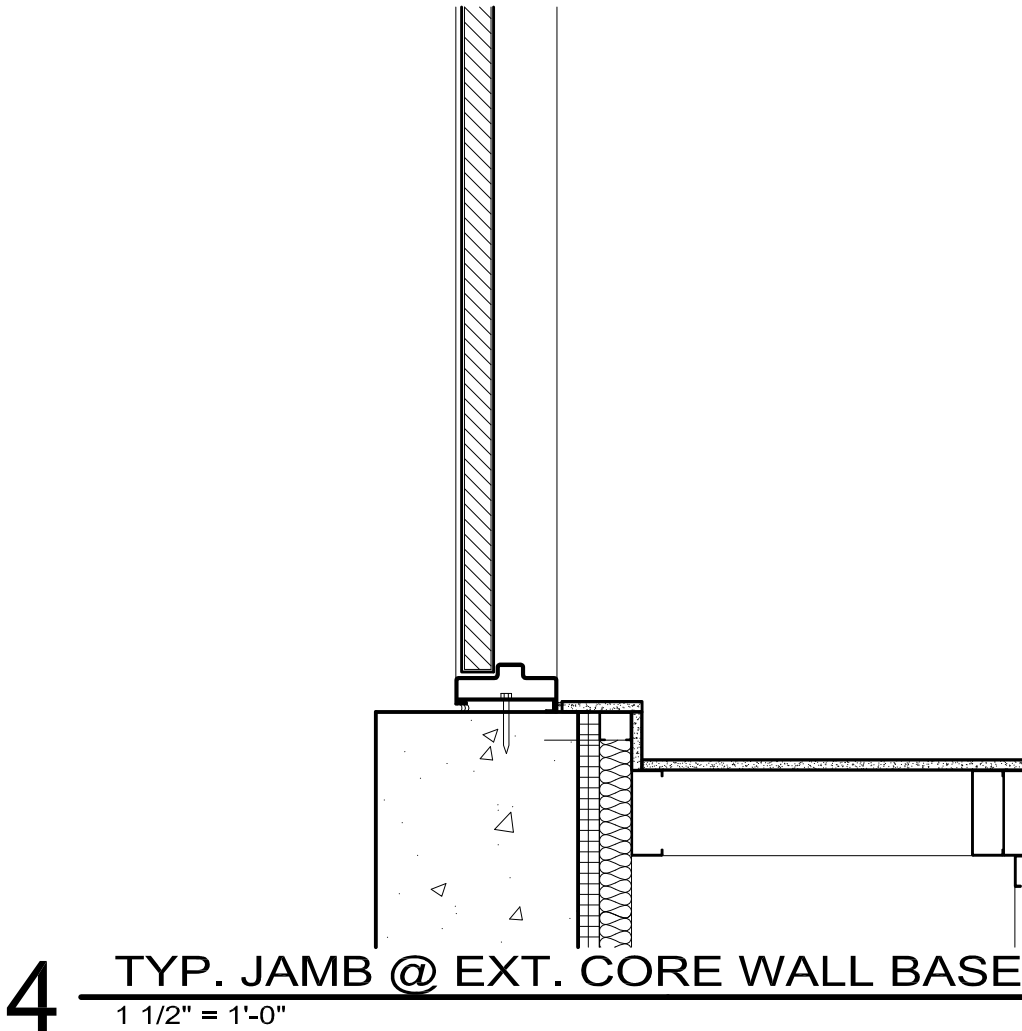
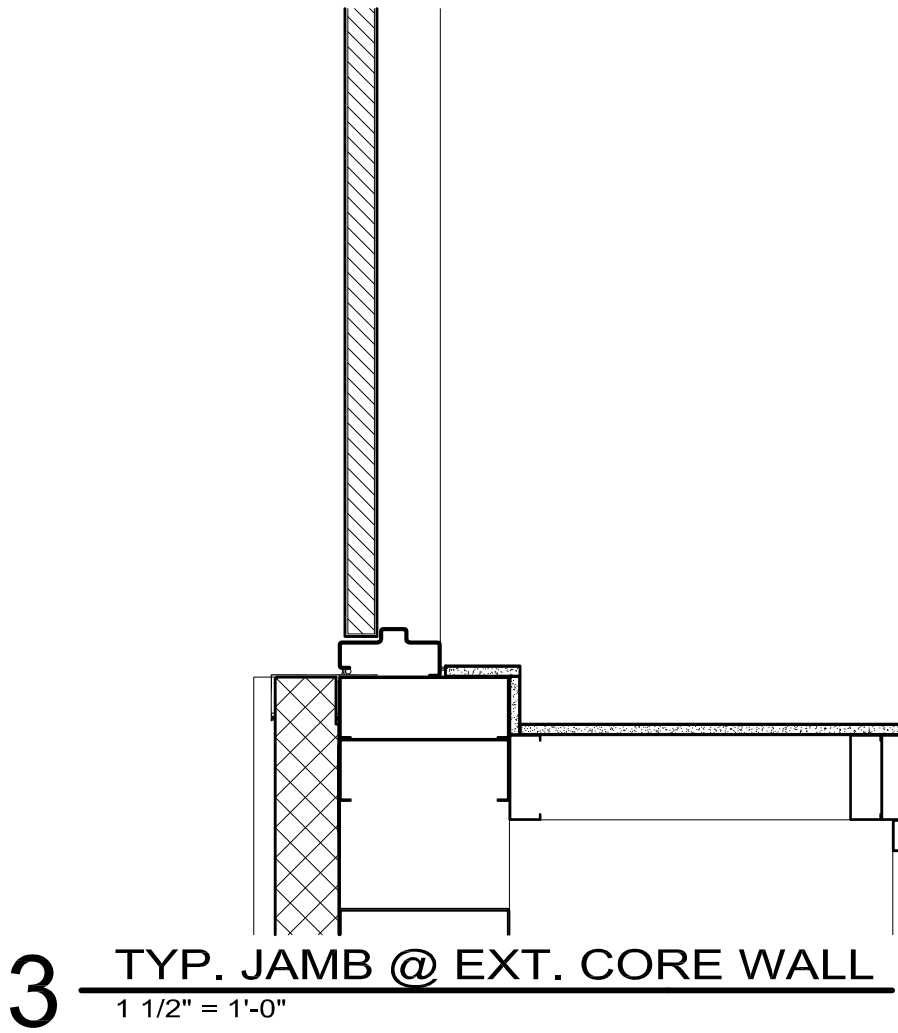
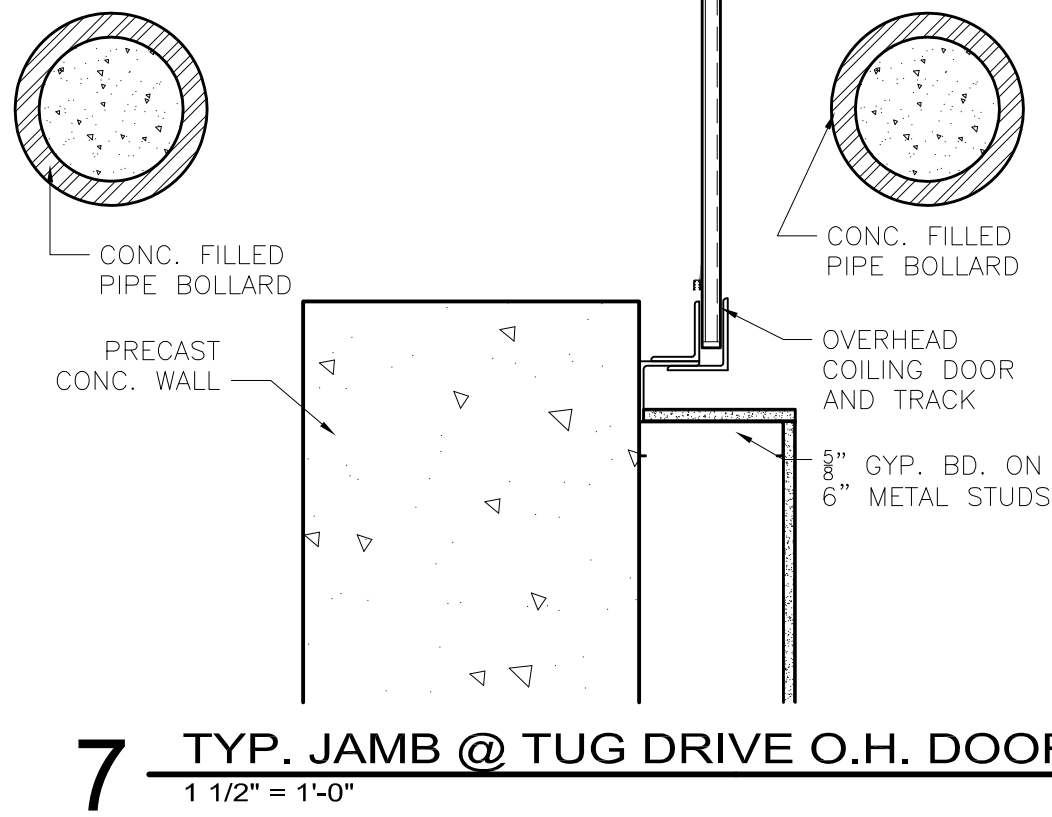
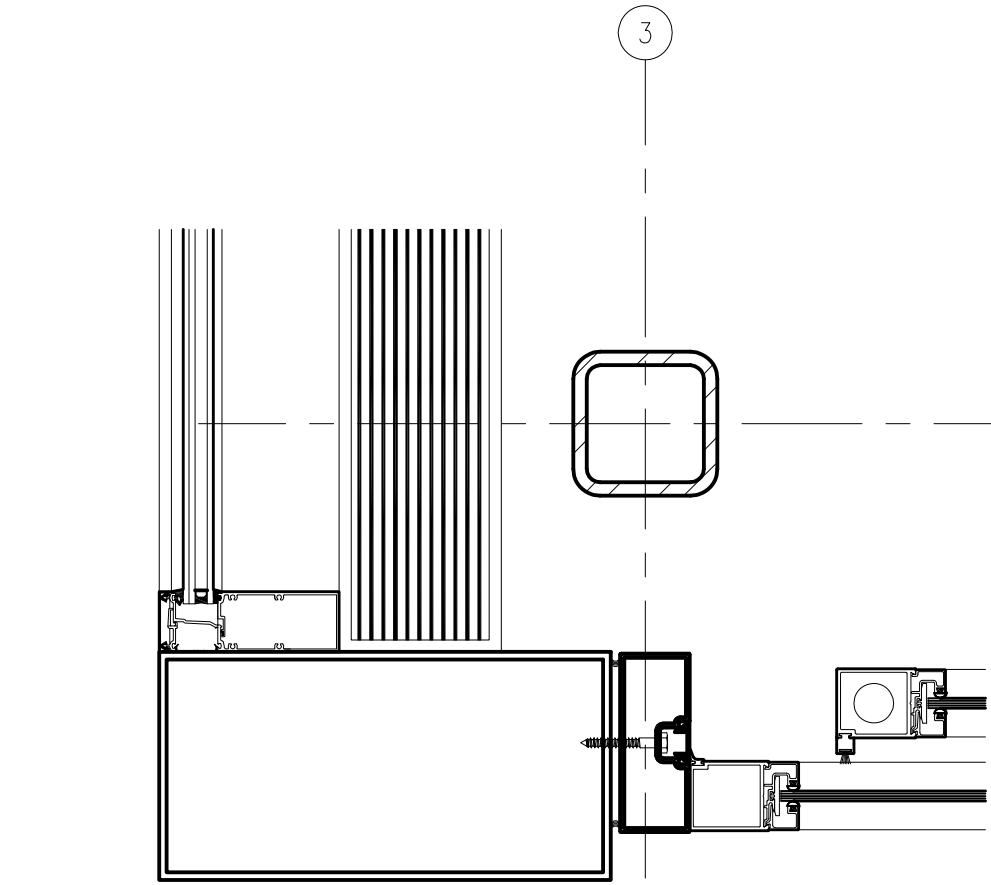
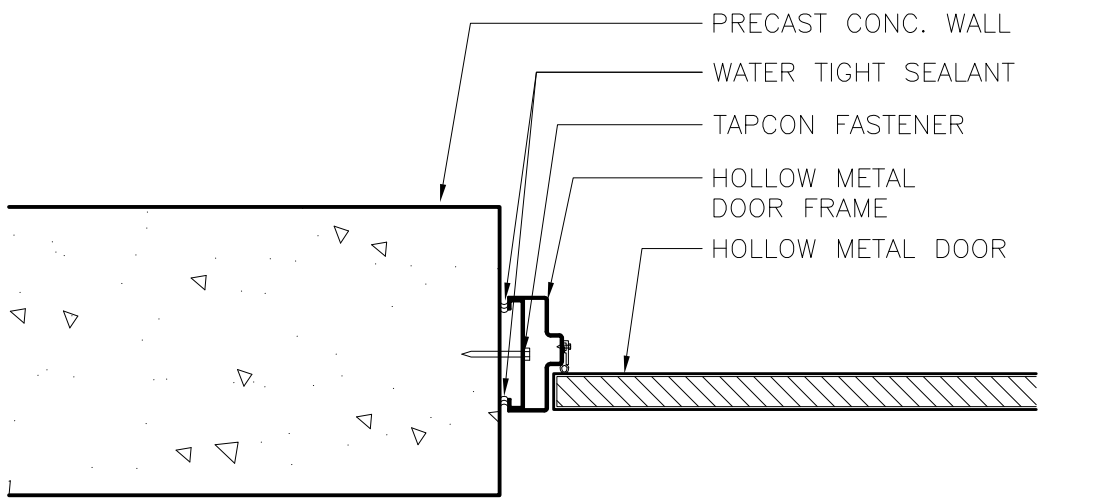
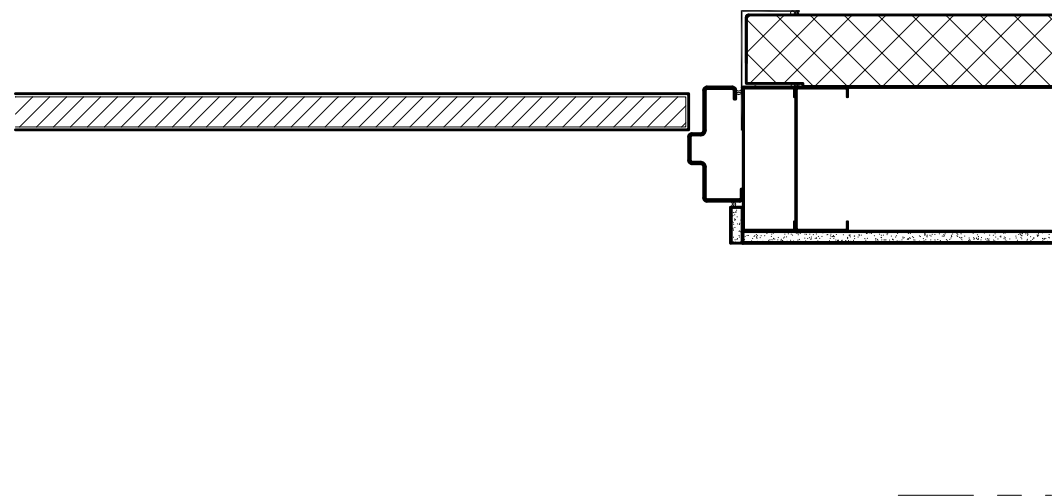
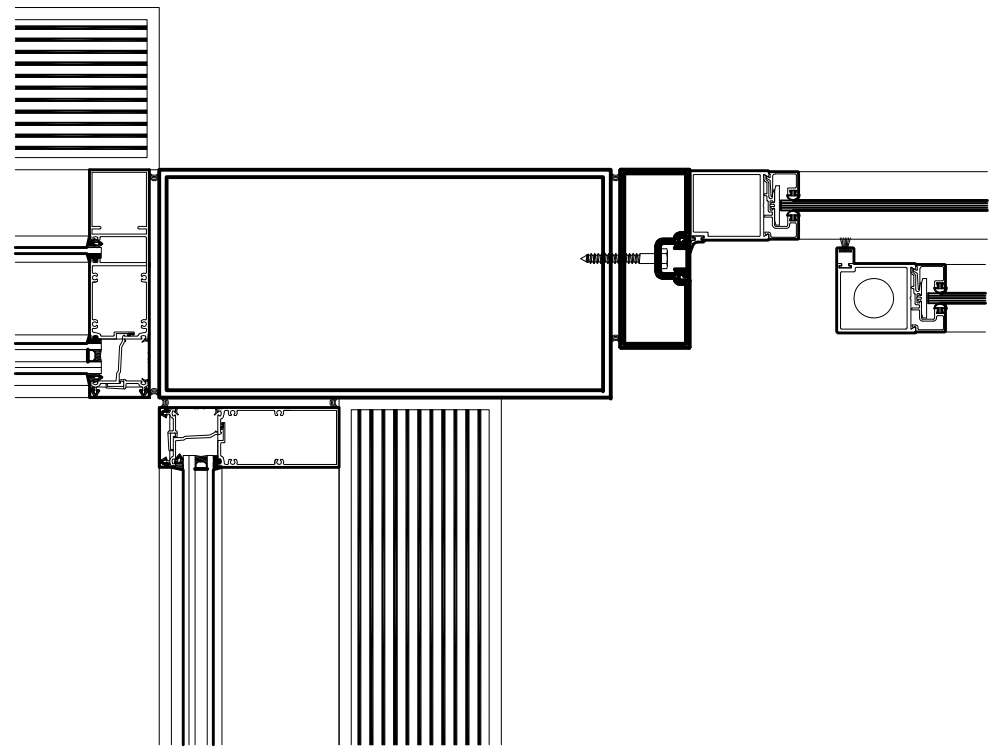
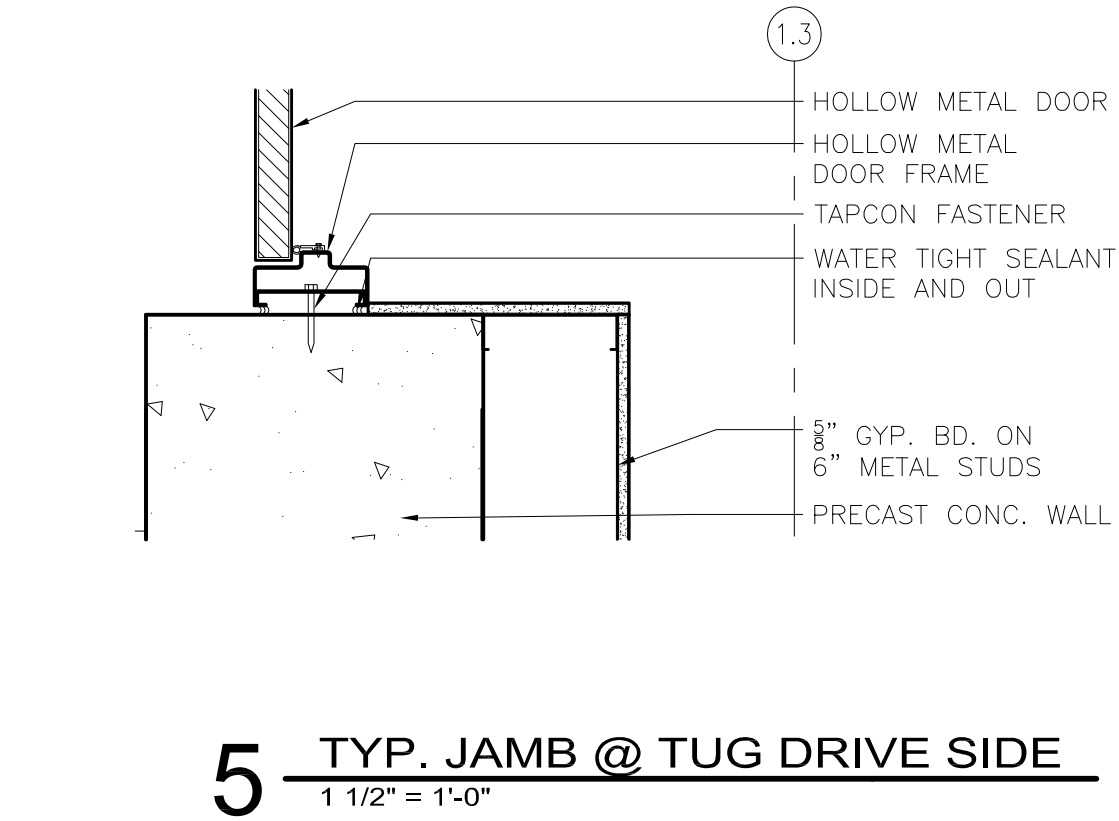
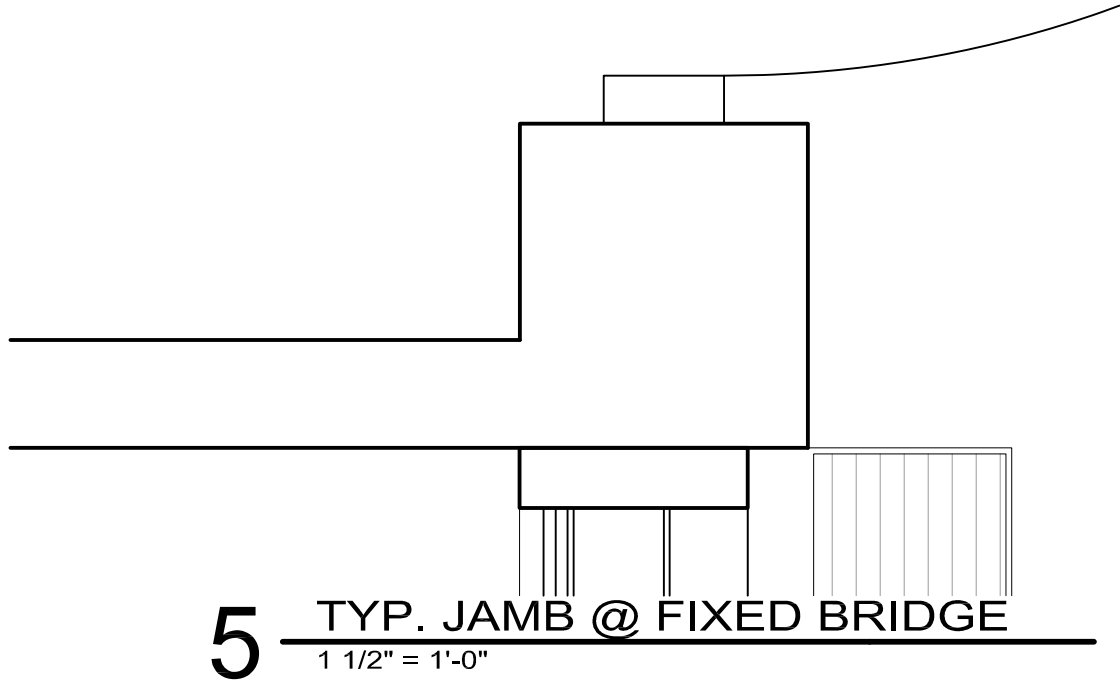
**4** **STOREFRONT SYSTEM JAMB DETAIL**  
3" = 1'-0"

**13** **NOT USED**









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**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**

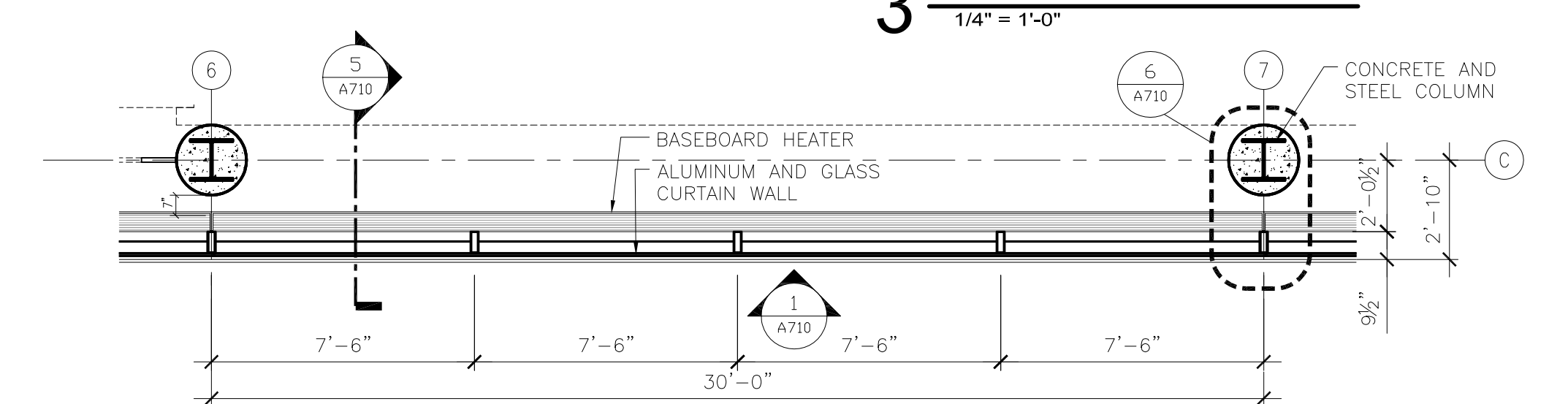
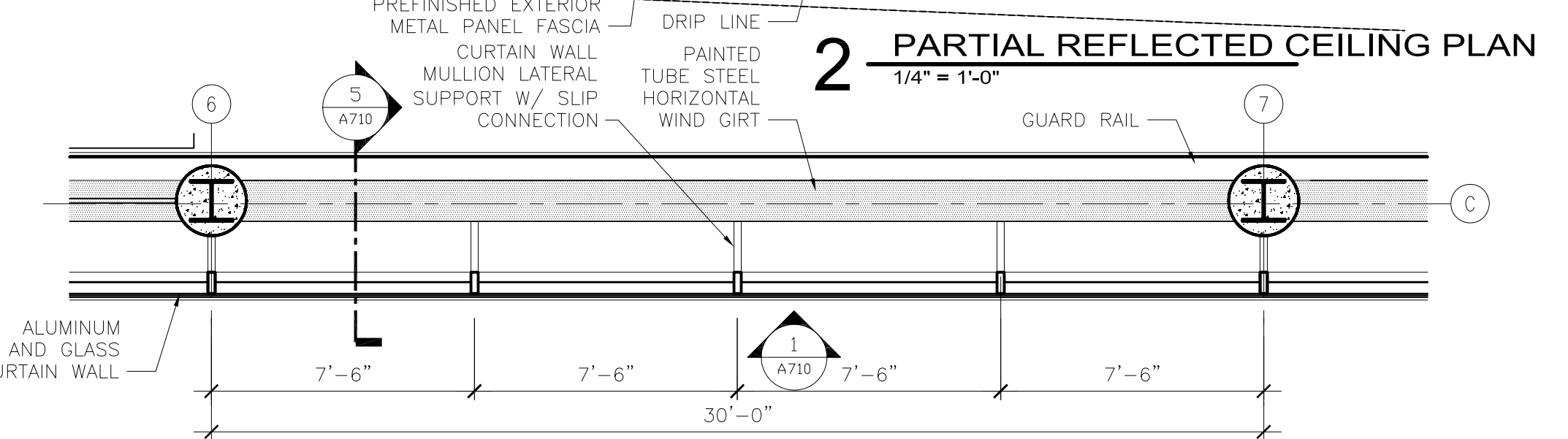
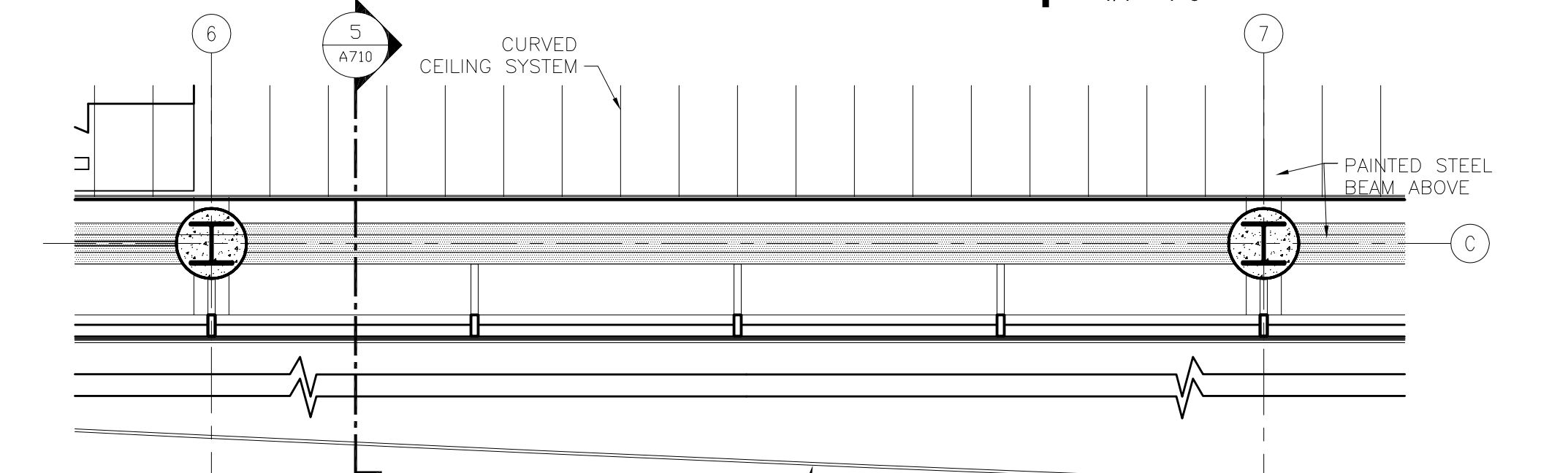
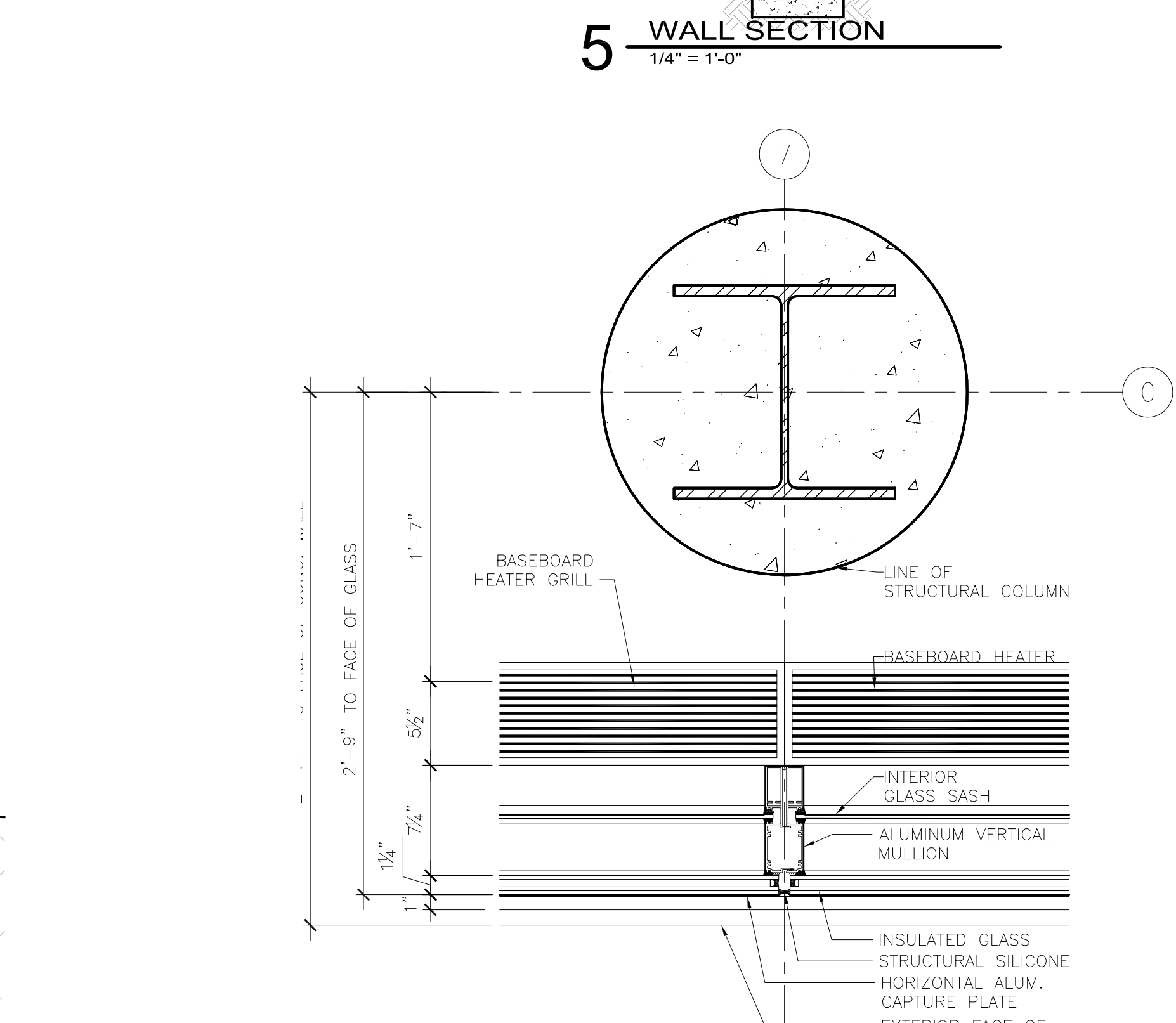
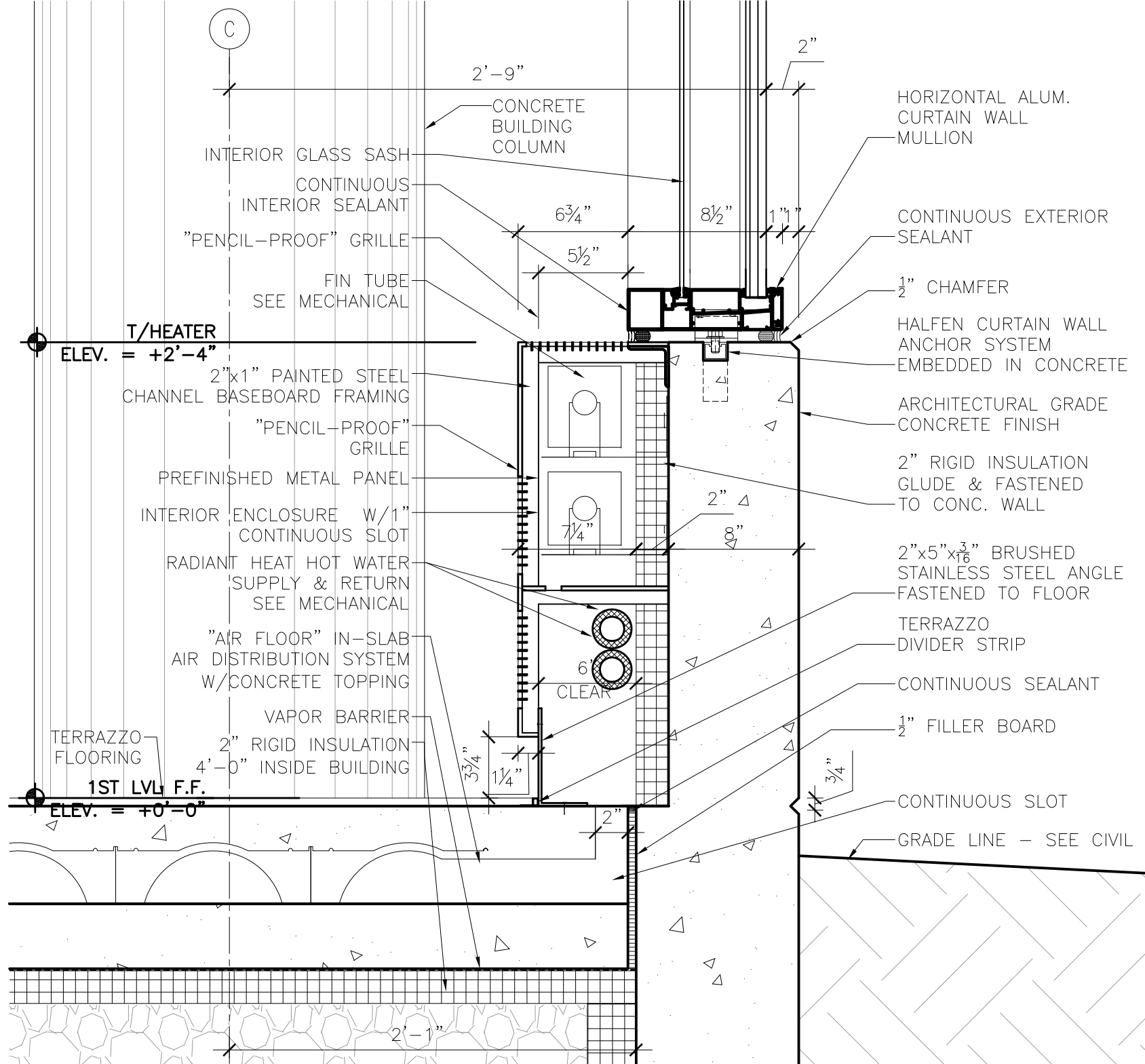
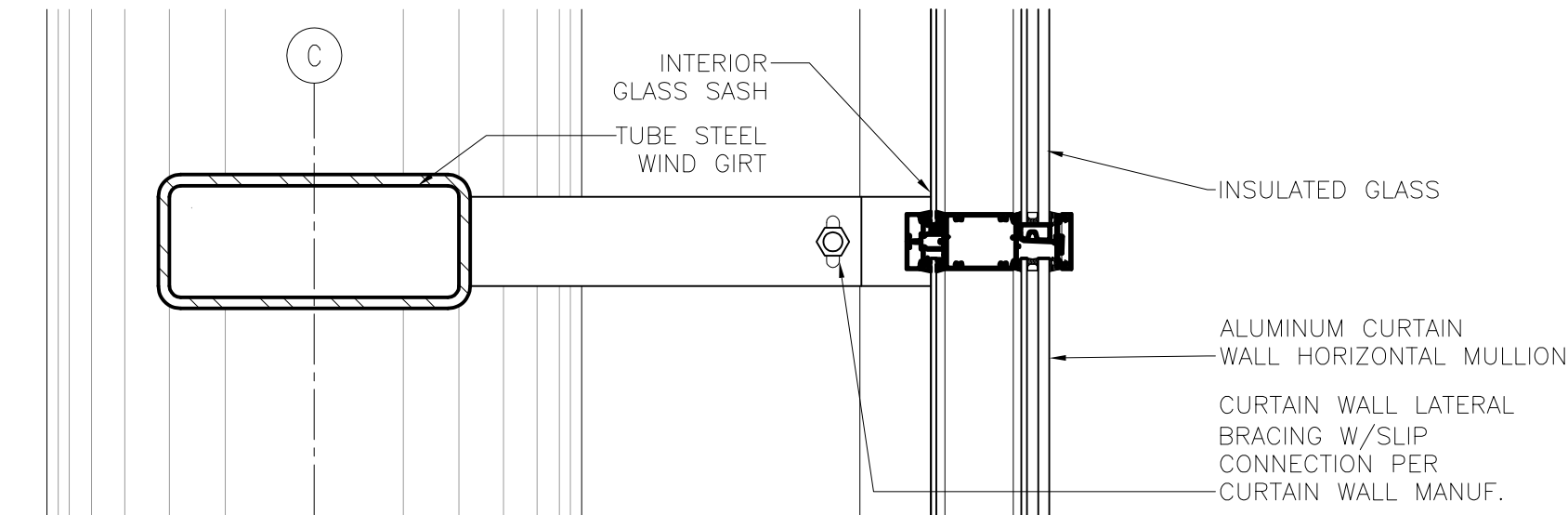
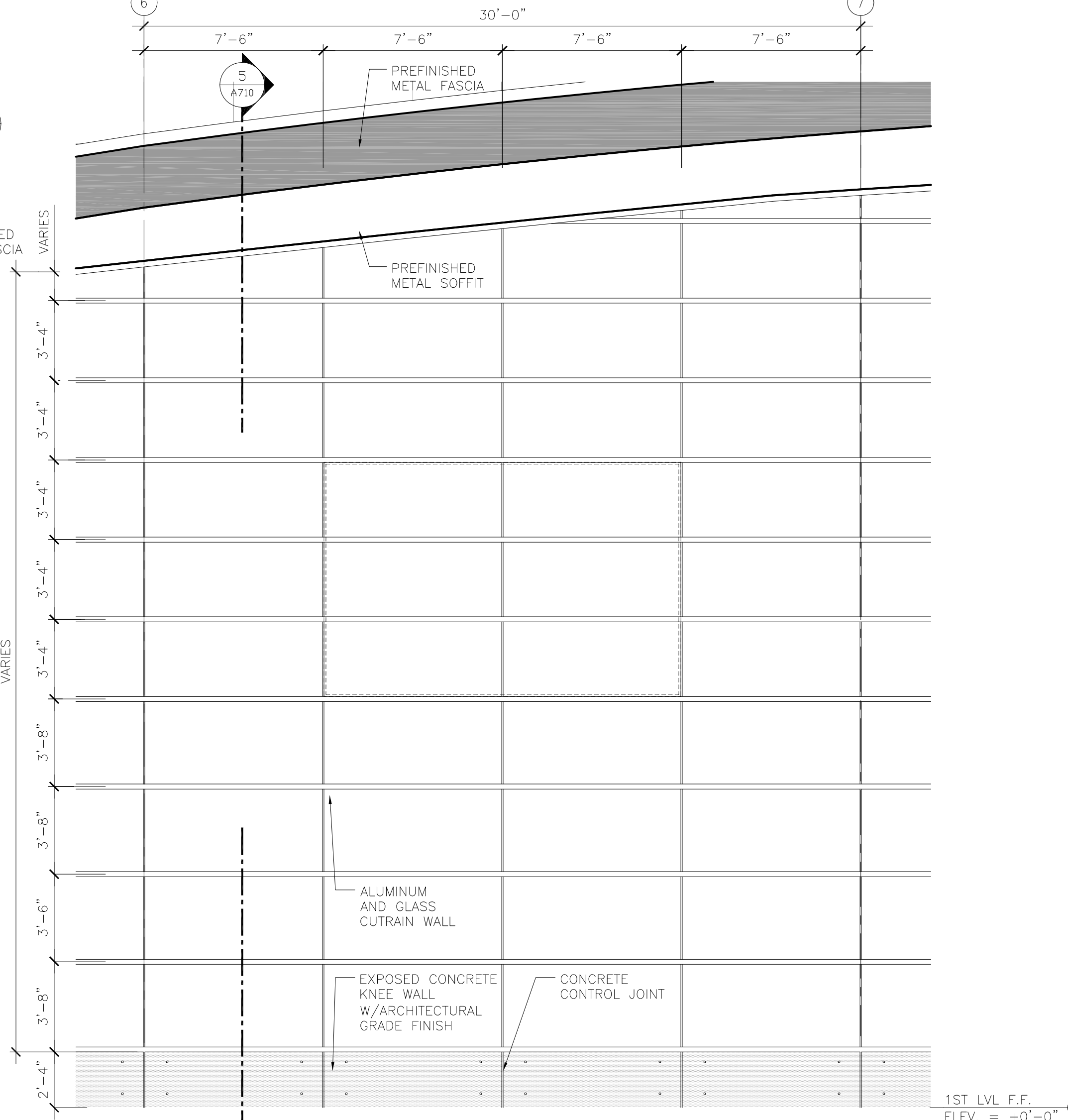
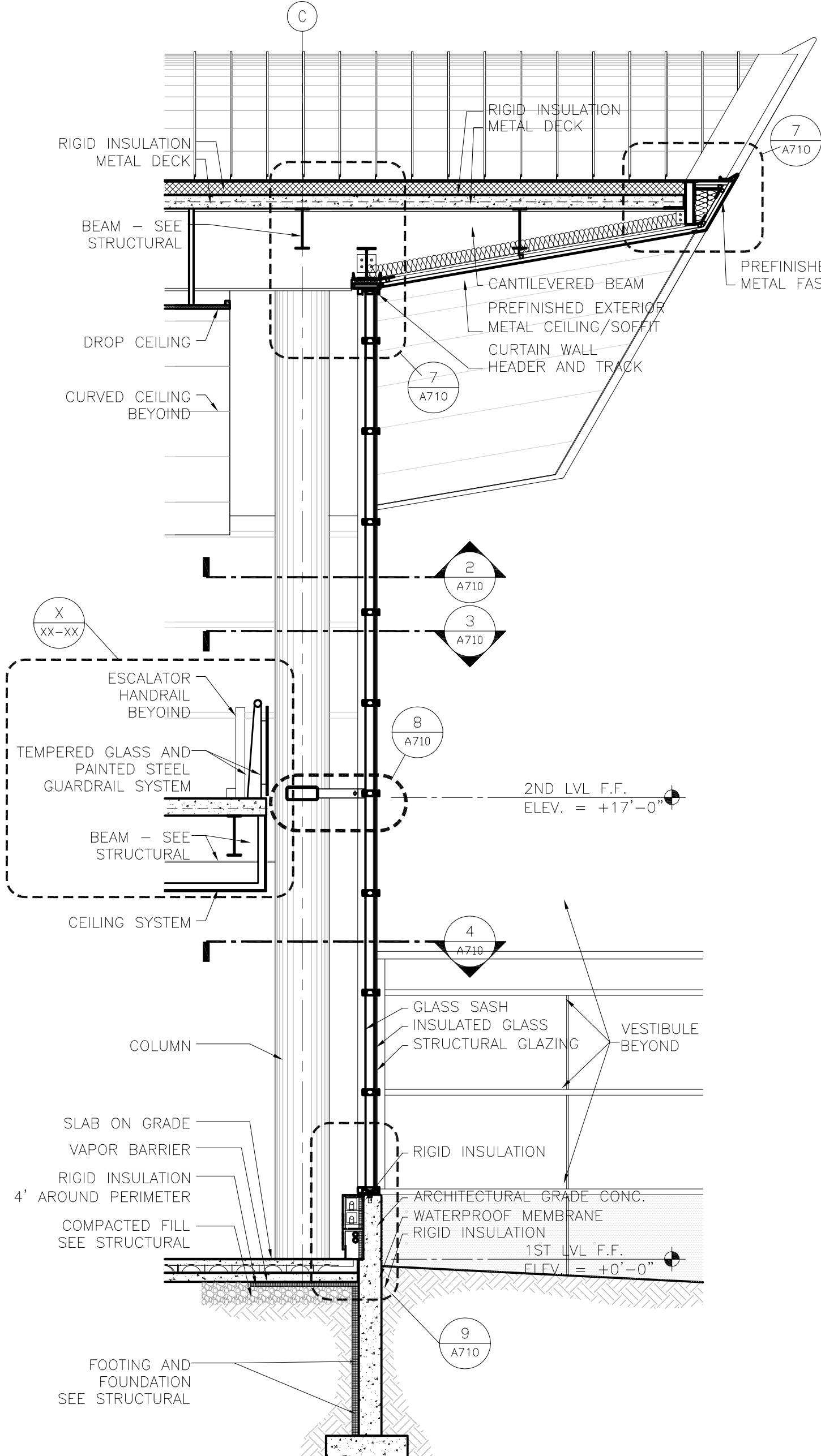
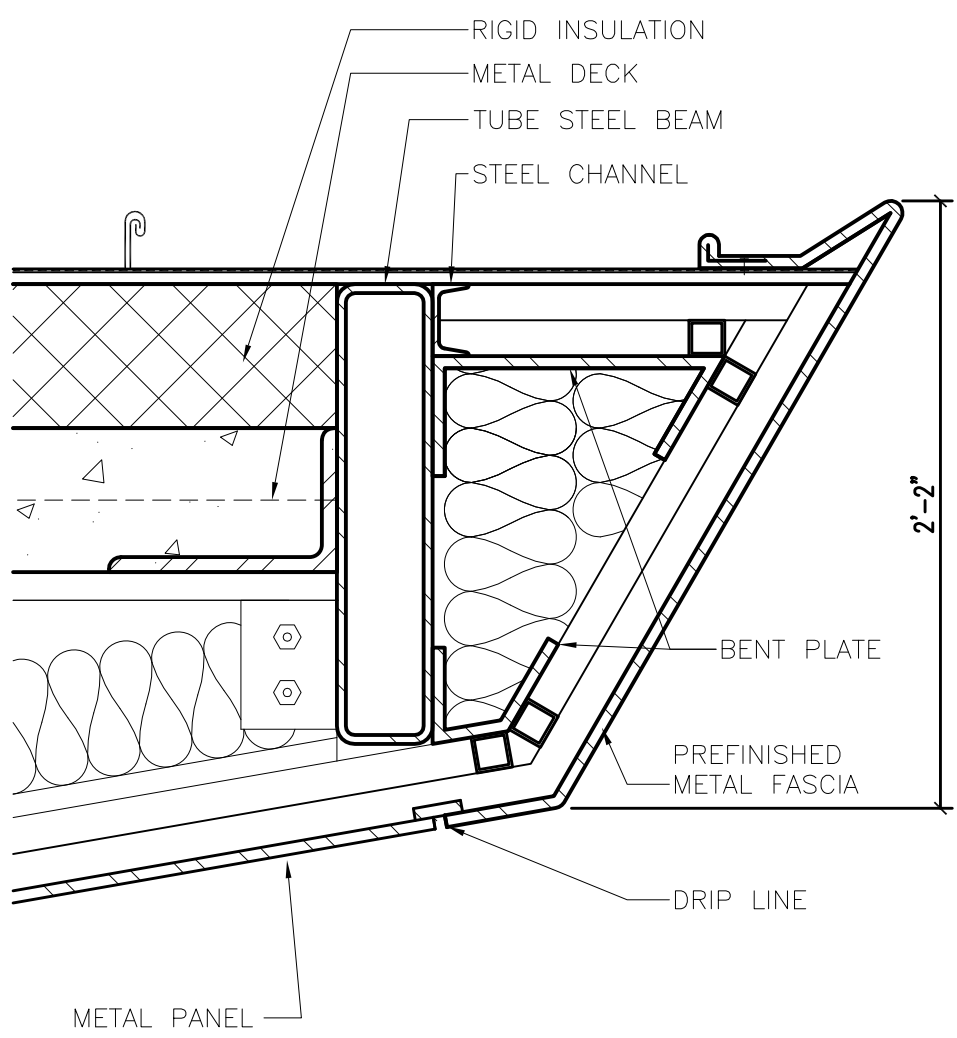
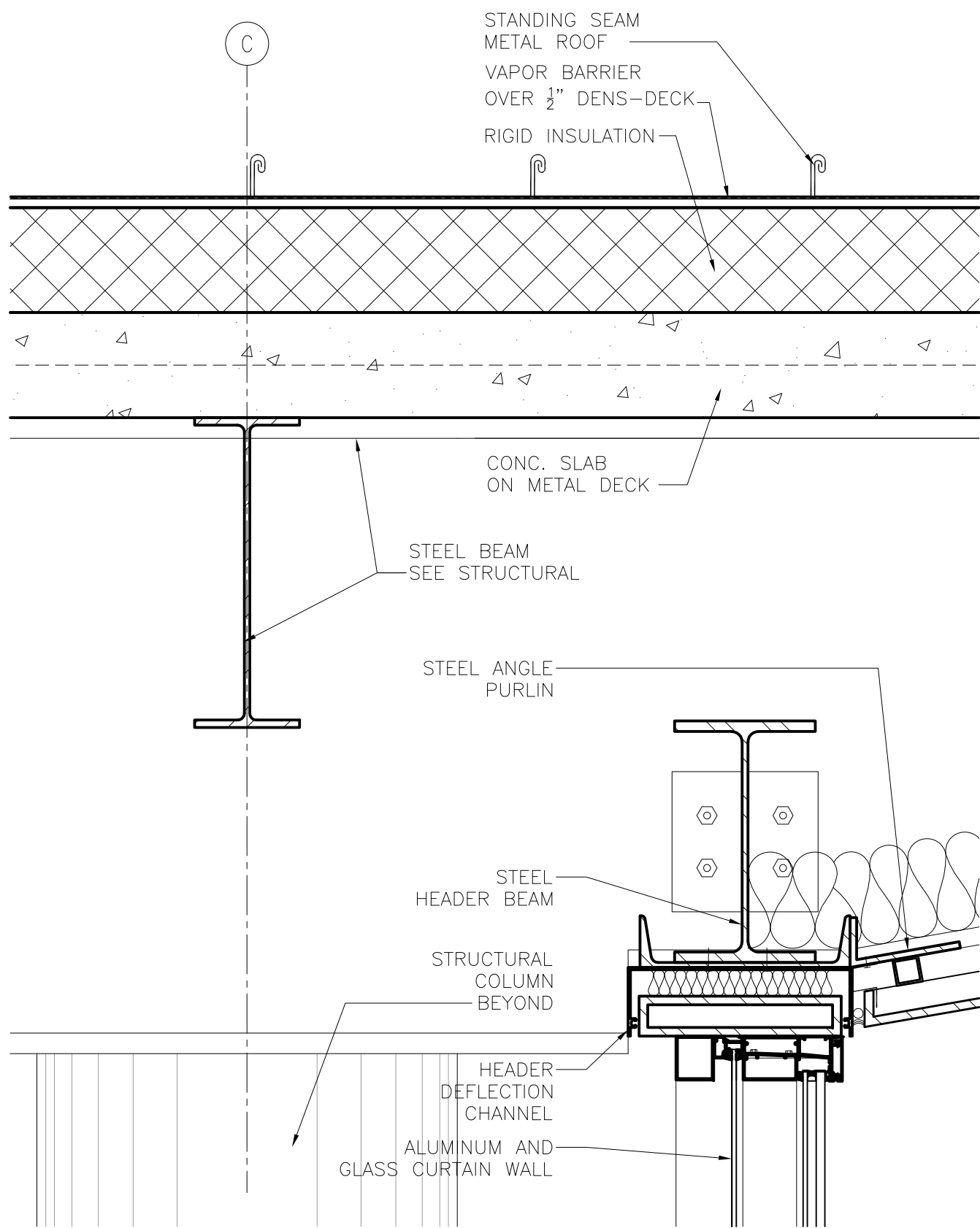
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SHEET TITLE  
**DOOR DETAILS**

SHEET NUMBER  
**A702**

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**DULUTH INTERNATIONAL AIRPORT  
DULUTH, MN**

**NEW PASSENGER TERMINAL**

**CONSULTANTS**

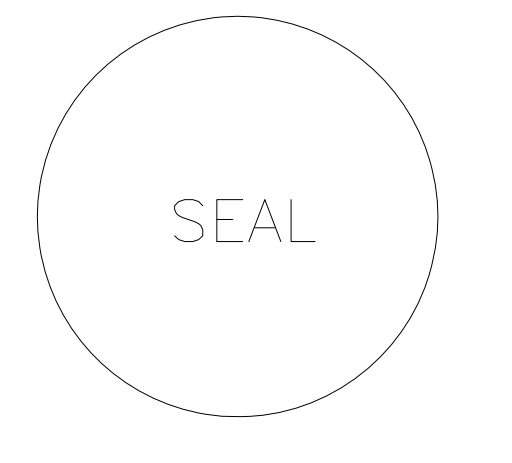
Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 340, Duluth MN 55802  
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Structural Engineers:  
**MBJ CONSULTING ENG.**  
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M/E/P/FP Engineers:  
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Baggage Handling Systems Consultants:  
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Landscaping Consultants:  
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2432 East First Street, Duluth MN 55812  
TEL: (218) 591-5079



REVISIONS		
NO.	DESCRIPTION	DATE

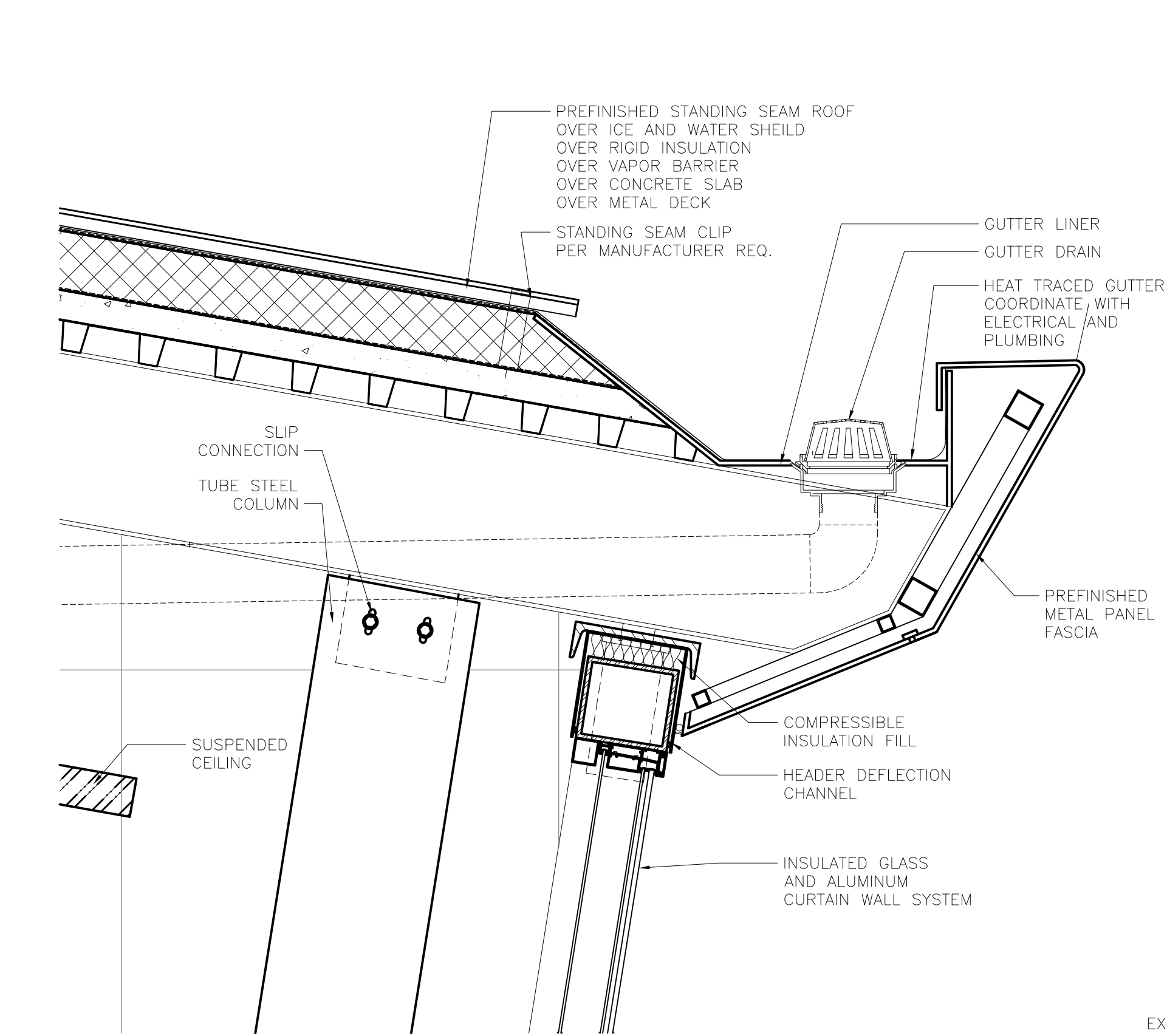
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC  
AEP PROJECT NUMBER  
**213-1882-091**  
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**EXTERIOR SYSTEMS  
LANDSIDE  
CURTAIN WALL**

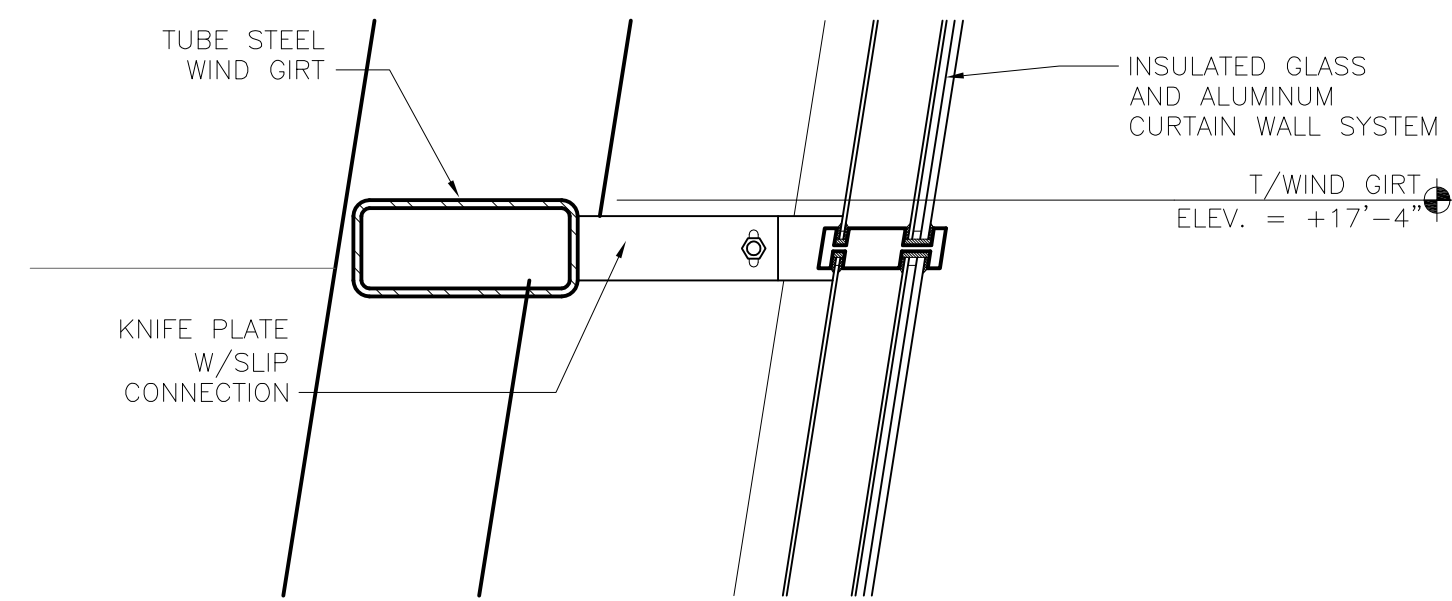
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**90% NOT FOR  
CONSTRUCTION**

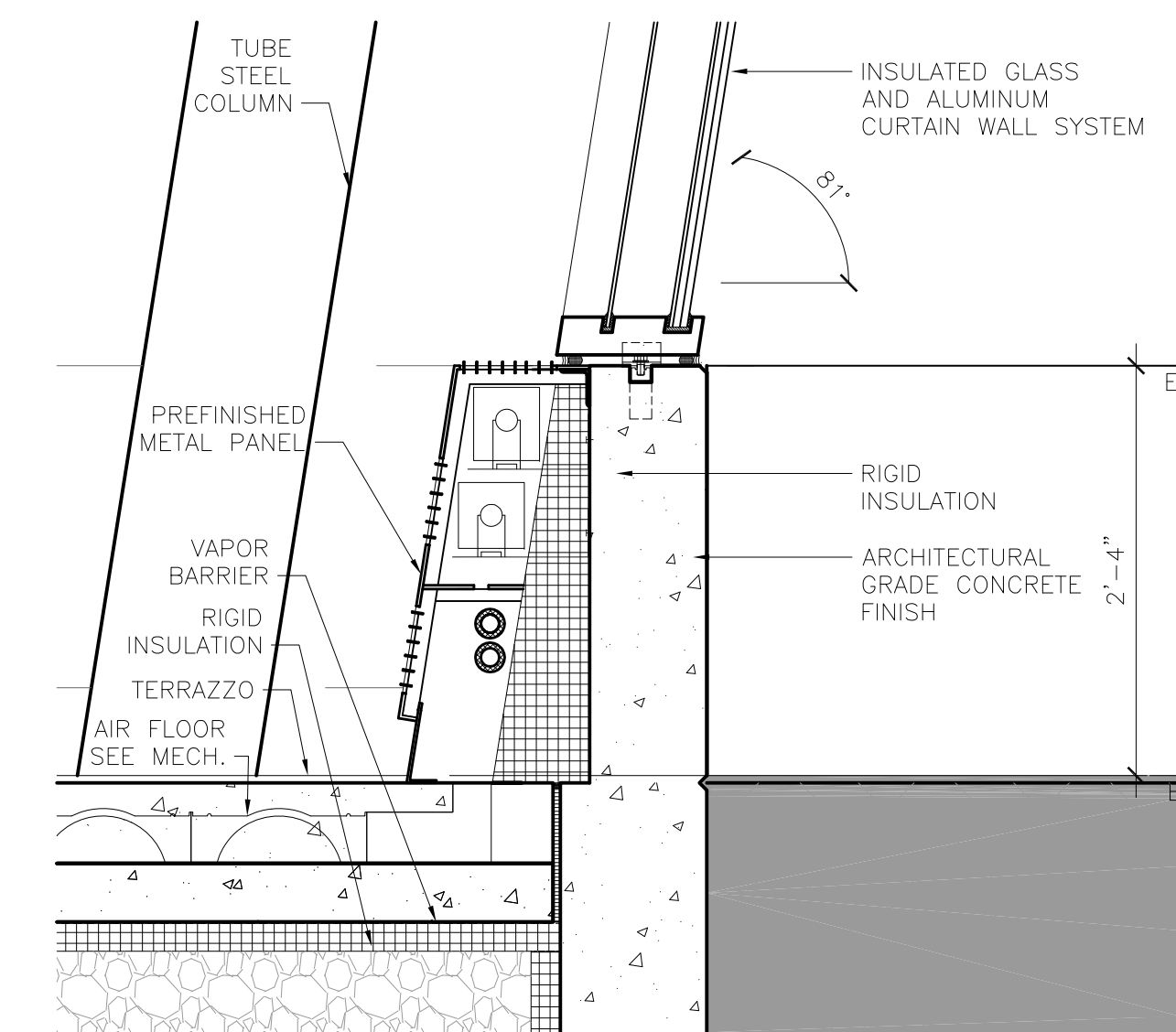




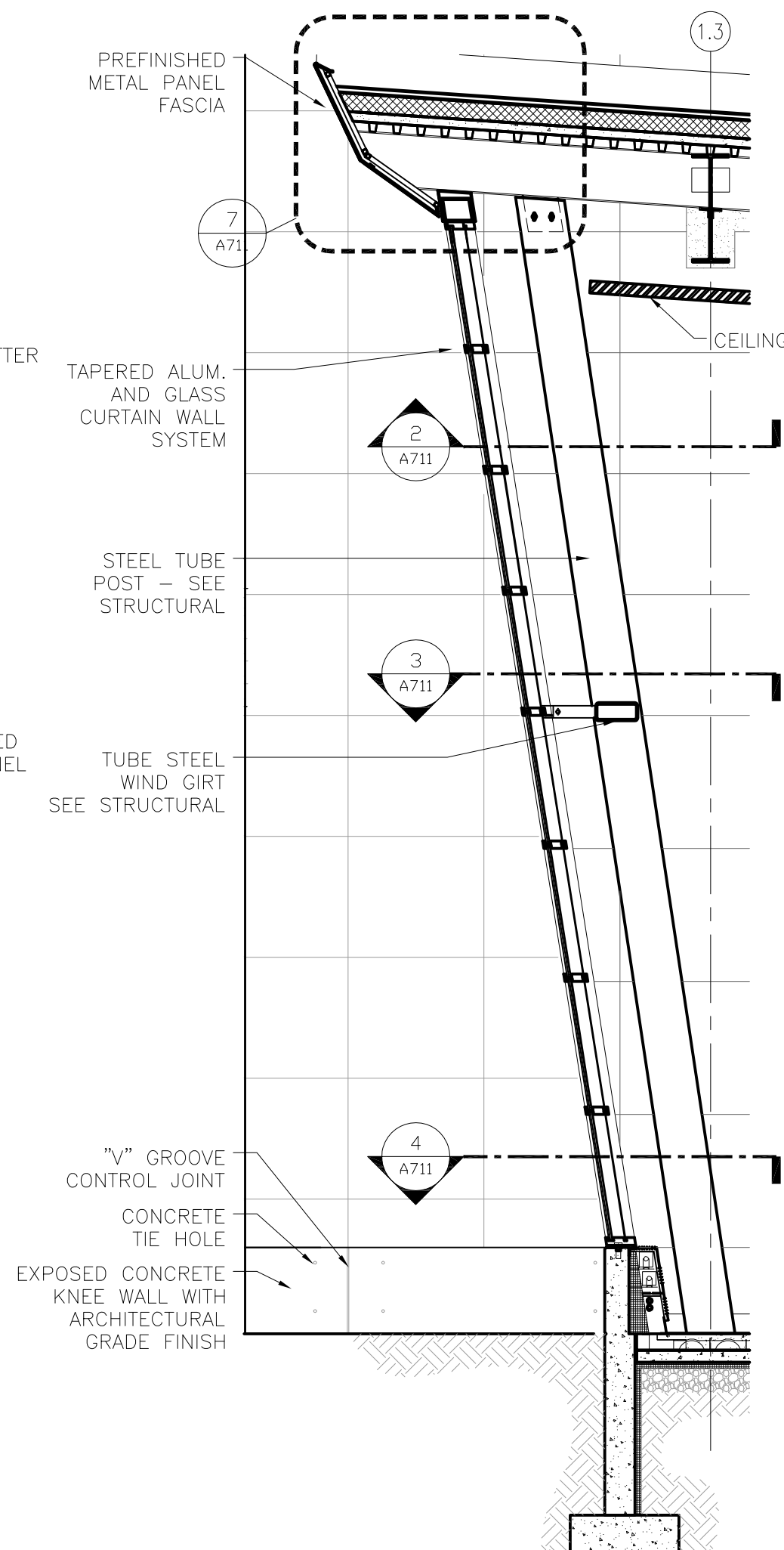
**8 CURTAIN WALL HEAD DETAIL  
@ EAST END OF CONCOURSE**  
1" = 1'-0"



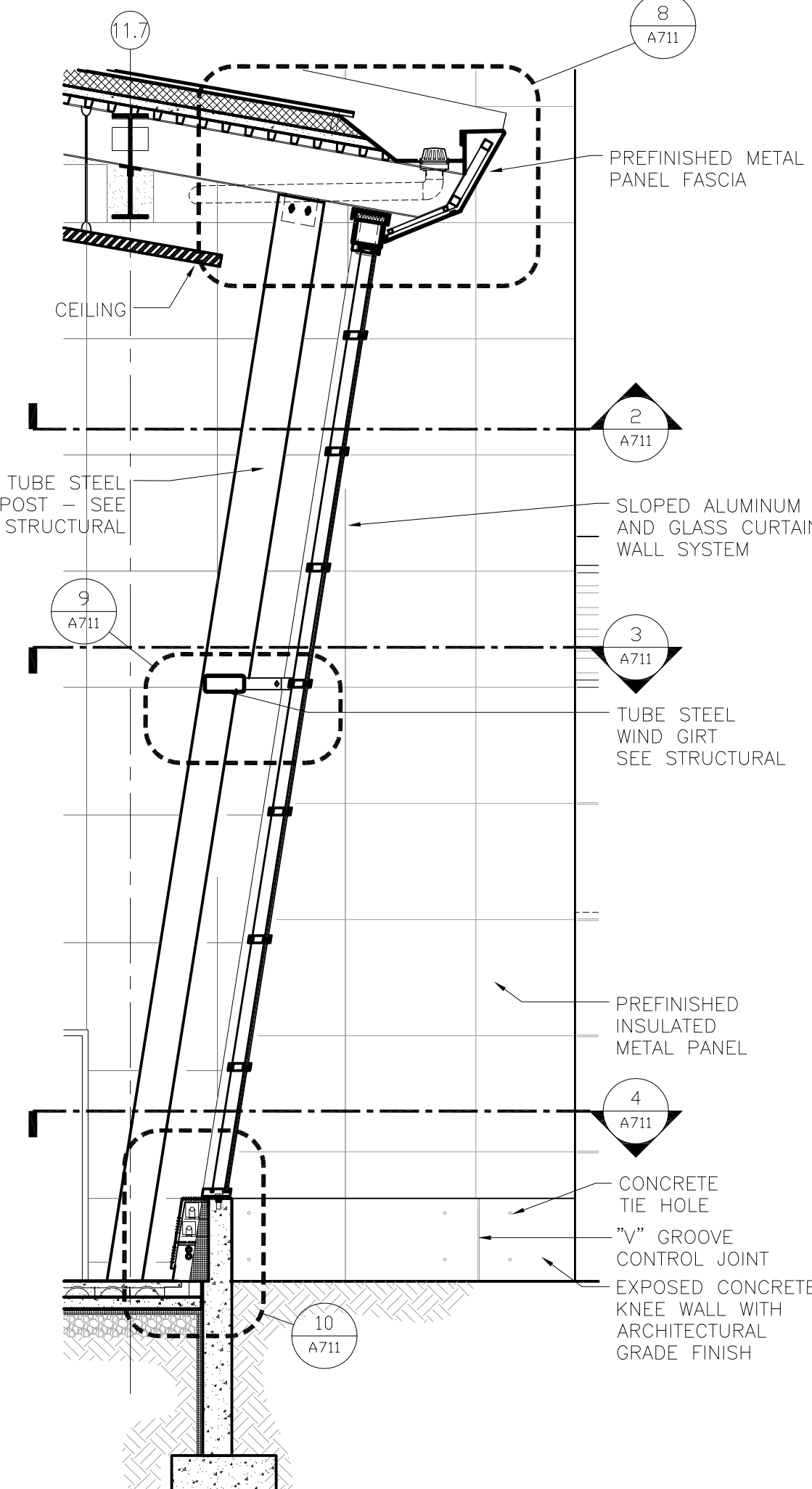
**9 CURTAIN WALL HORIZONTAL DETAIL**  
1" = 1'-0" WEST SIDE SIMILAR



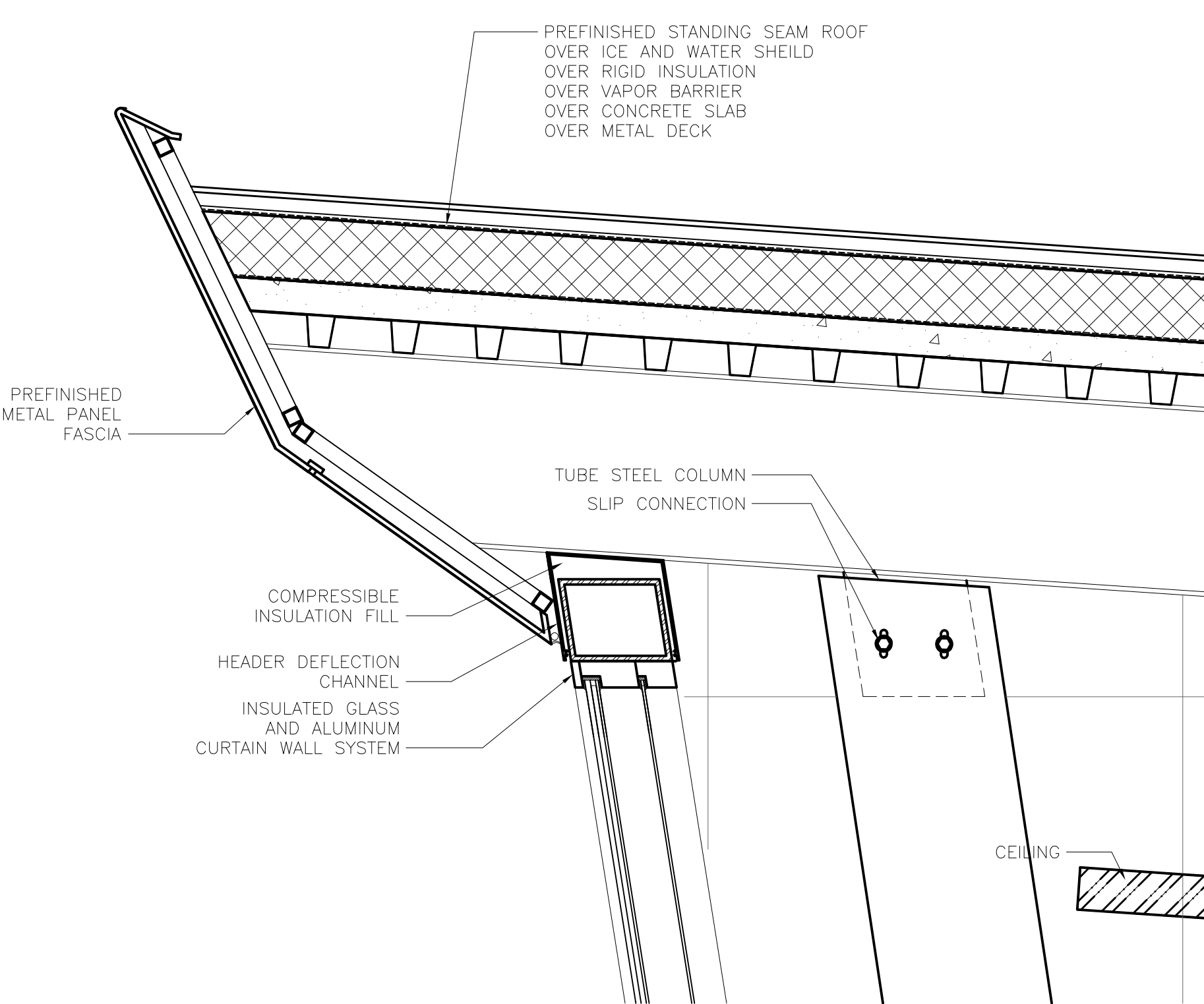
**10 CURTAIN WALL SILL DETAIL**  
1" = 1'-0" WEST SIDE SIMILAR



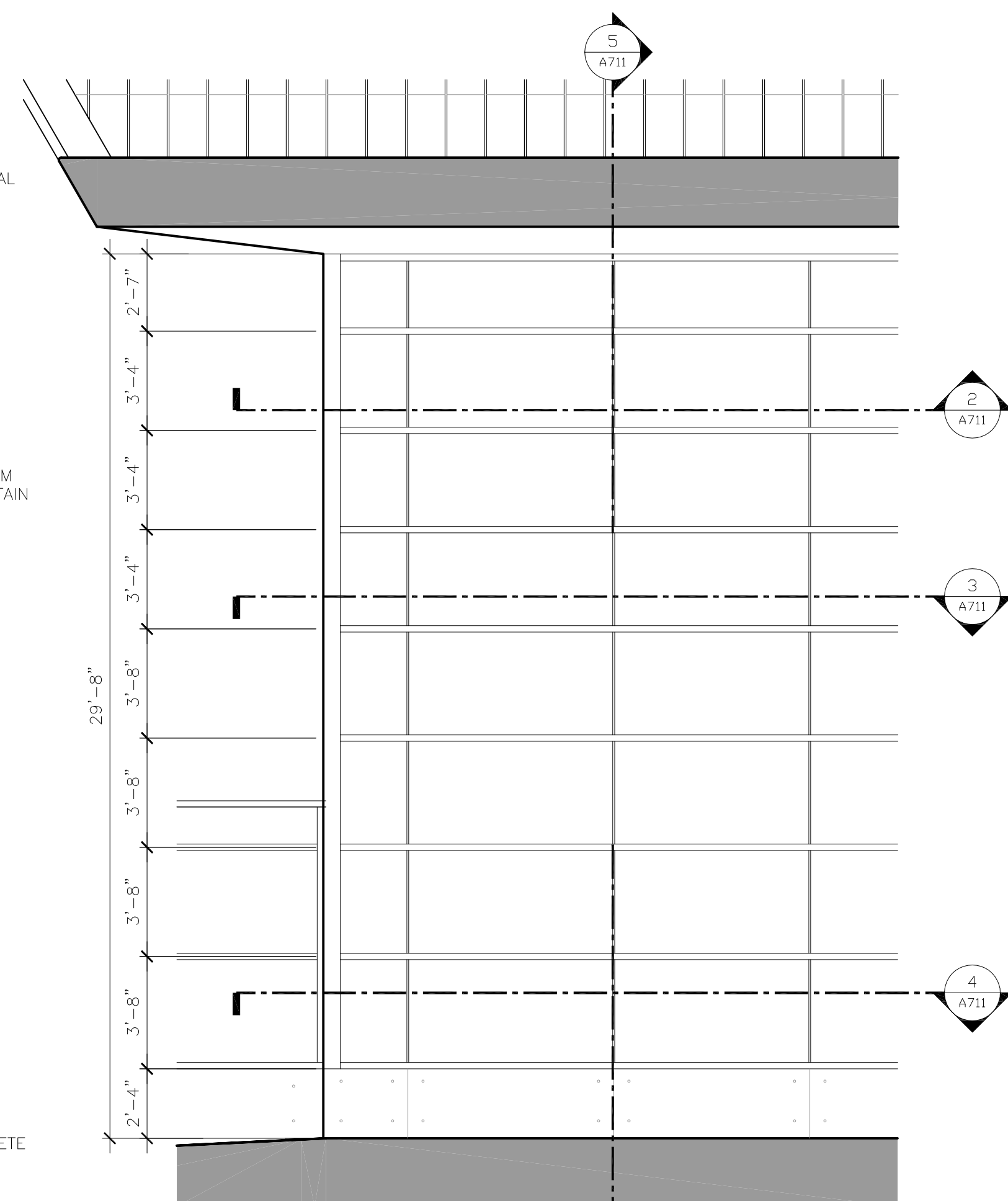
**6 WEST CURTAIN WALL SECTION**  
1/4" = 1'-0"



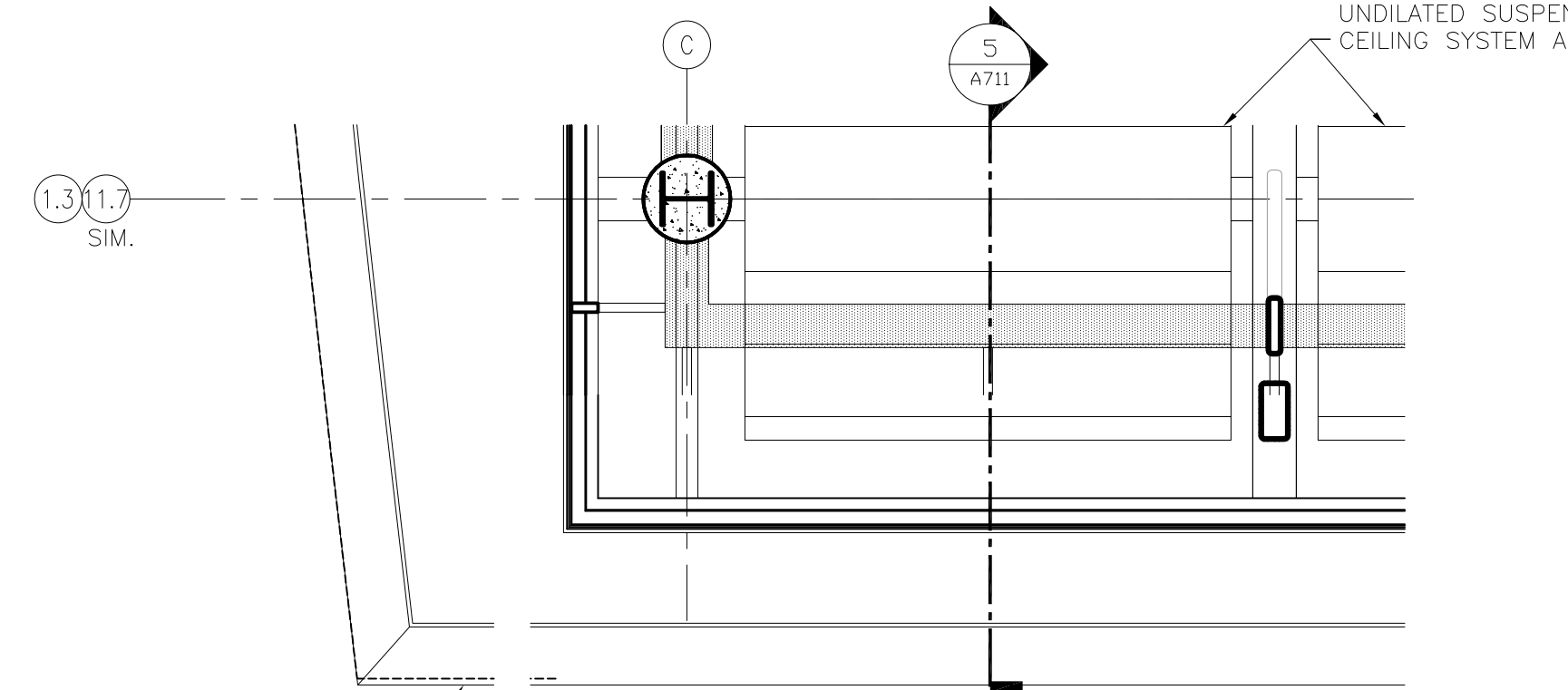
**5 EAST CURTAIN WALL SECTION**  
1/4" = 1'-0"



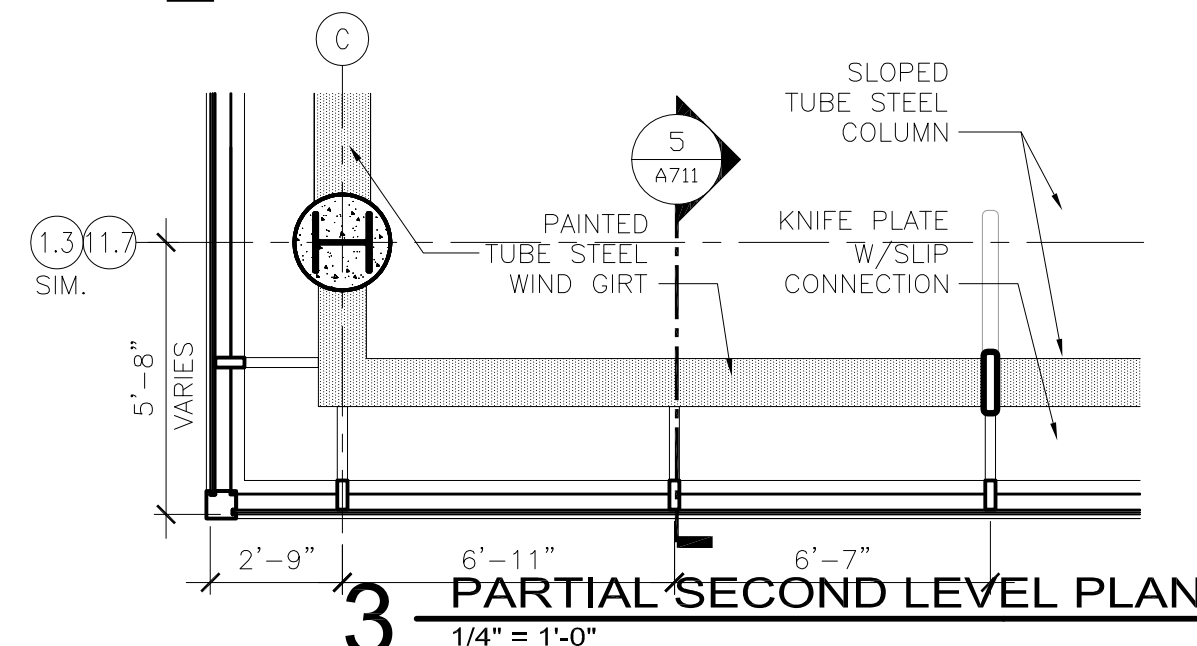
**7 CURTAIN WALL HEAD DETAIL  
@ WEST END OF CONCOURSE**  
1" = 1'-0"



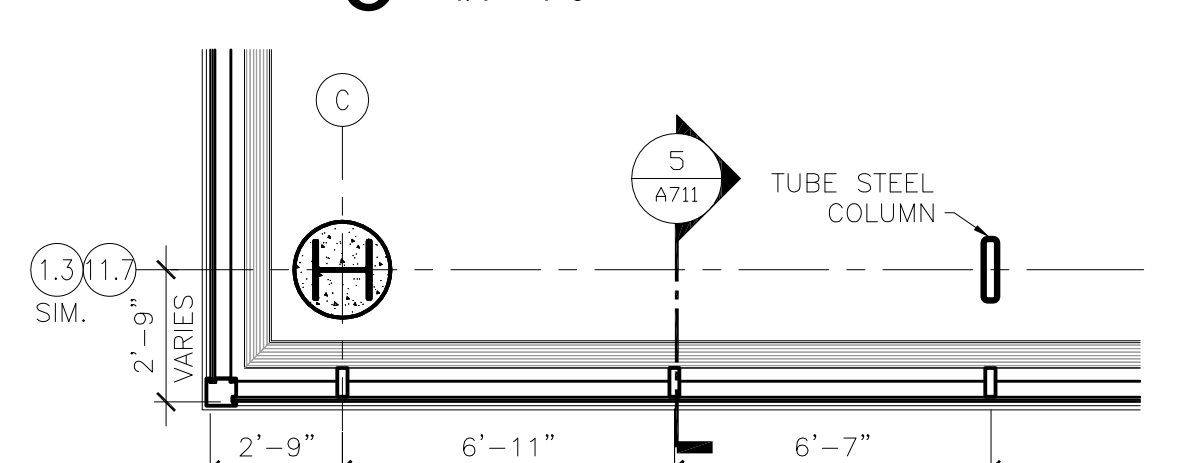
**1 PARTIAL EAST ELEVATION**  
1/4" = 1'-0"



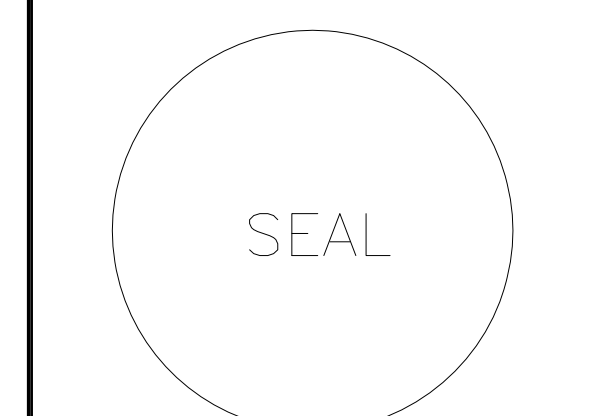
**2 PARTIAL REFLECTED CEILING PLAN**  
1/4" = 1'-0"



**3 PARTIAL SECOND LEVEL PLAN**  
1/4" = 1'-0"



**4 PARTIAL FIRST LEVEL PLAN**  
1/4" = 1'-0"



**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**

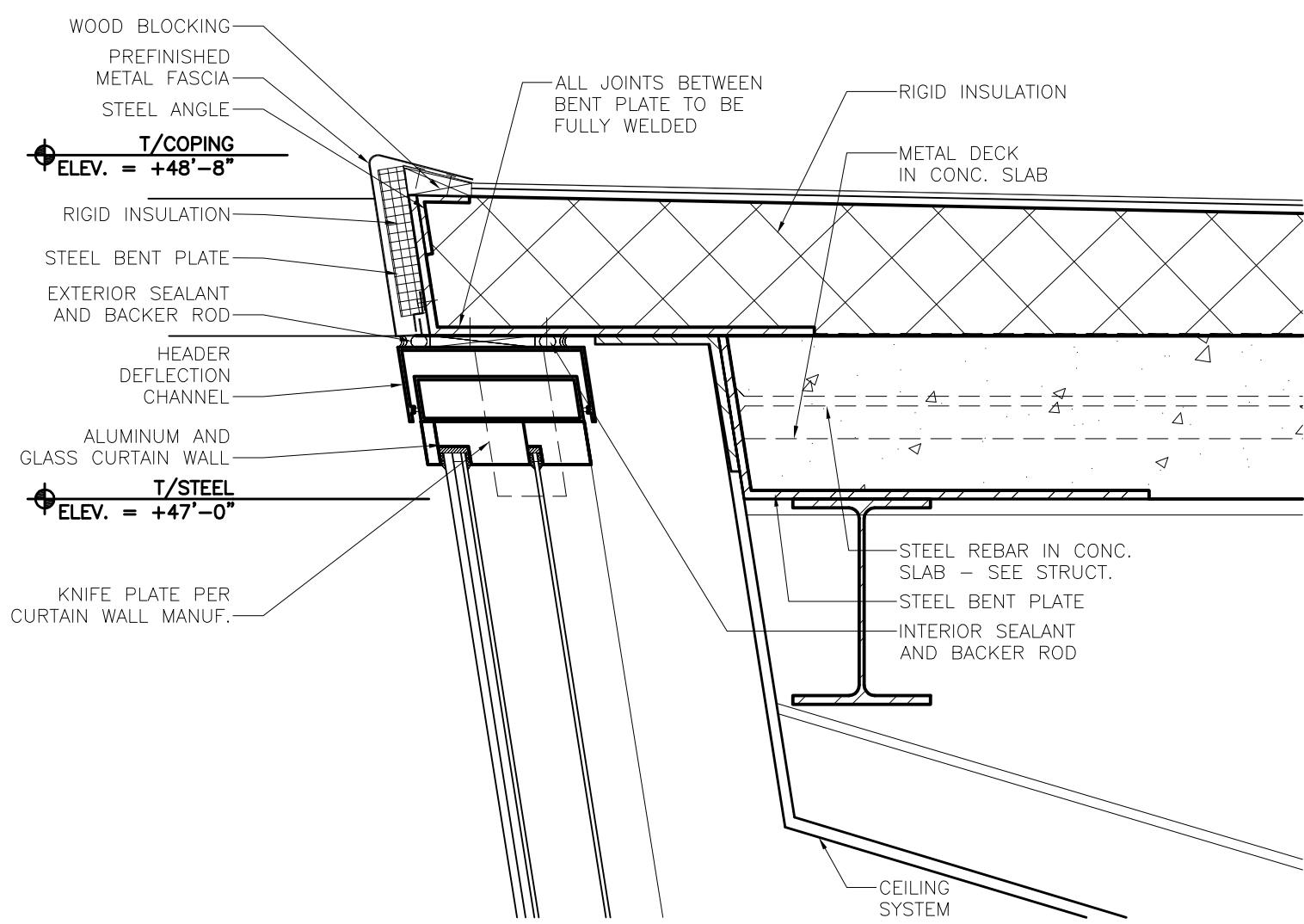
© 2006 REYNOLDS, SMITH AND HILLS INC.

**SHEET TITLE**  
**EXTERIOR SYSTEMS  
LANDSIDE  
CURTAIN WALL**

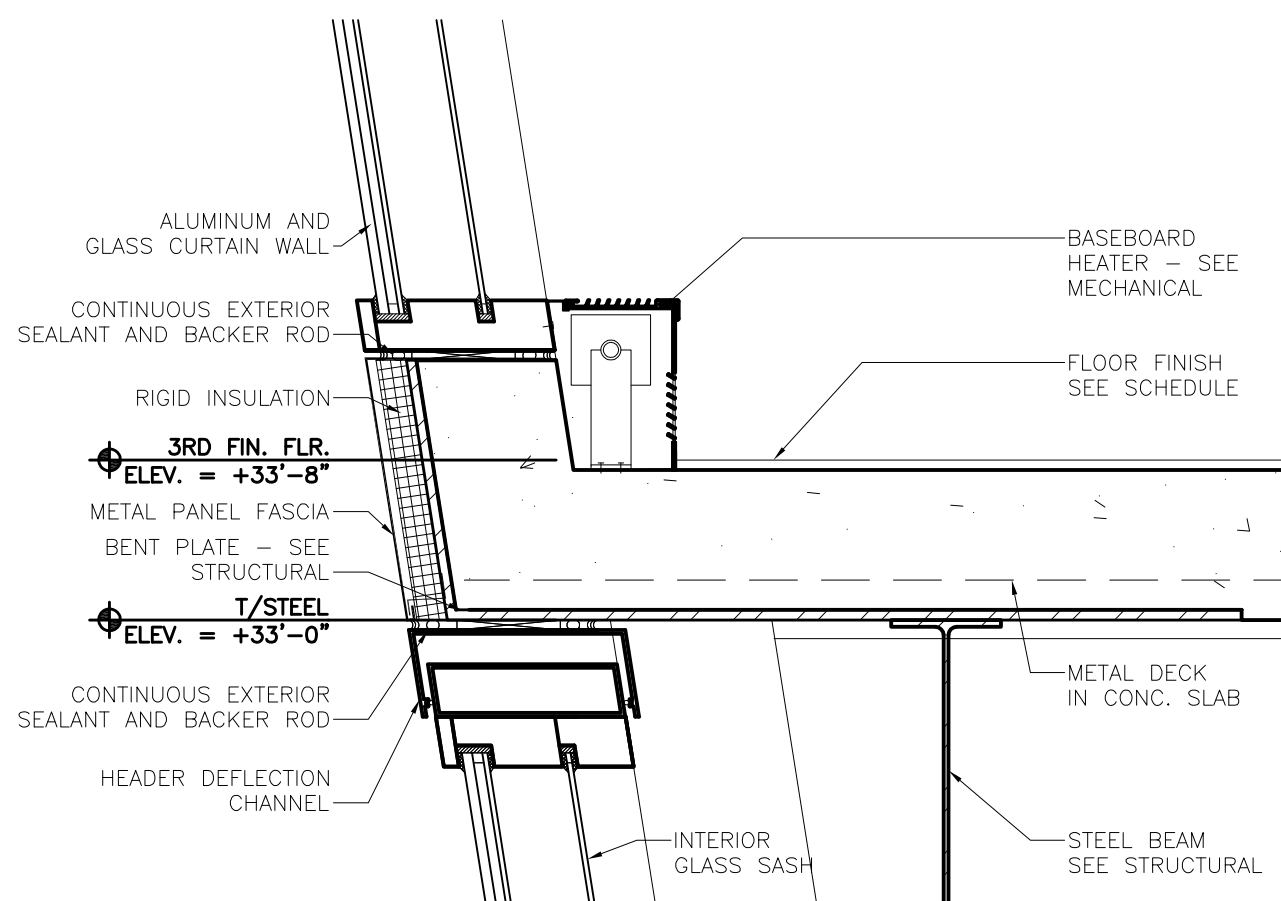
**SHEET NUMBER**  
**A711**

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CONSTRUCTION**

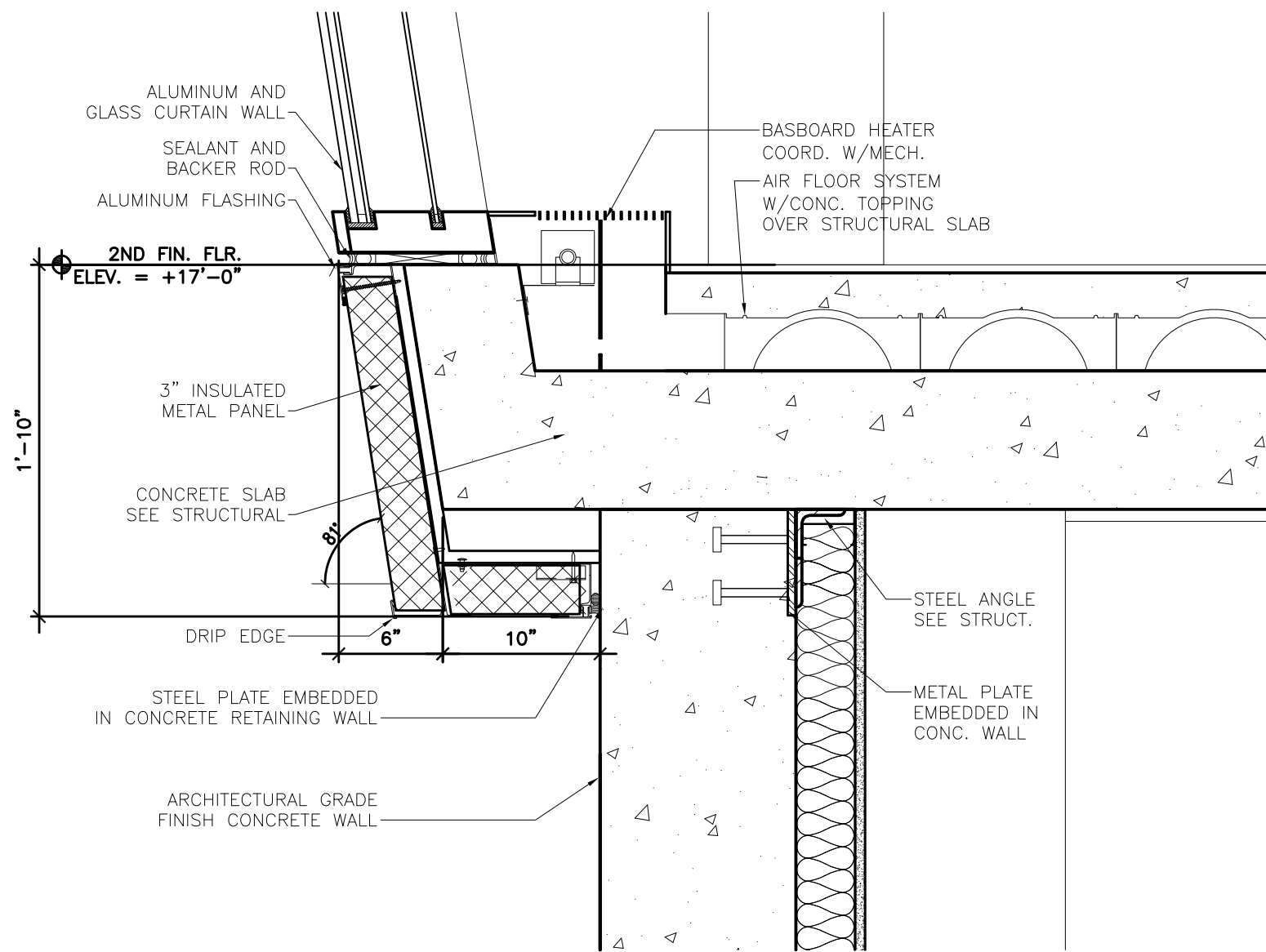




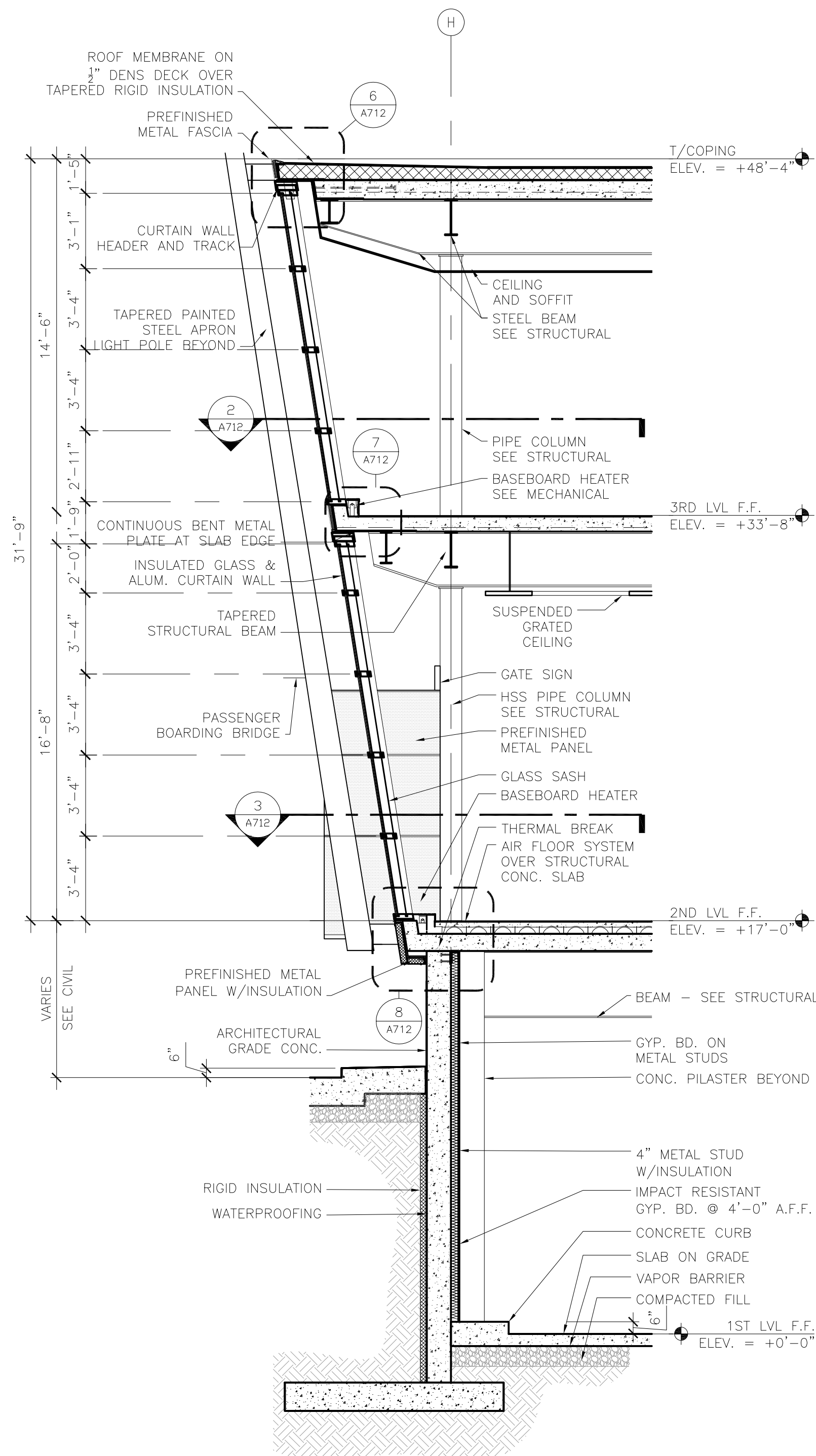
5 CURTAIN WALL HEAD DETAIL  
1 1/2" = 1'-0"



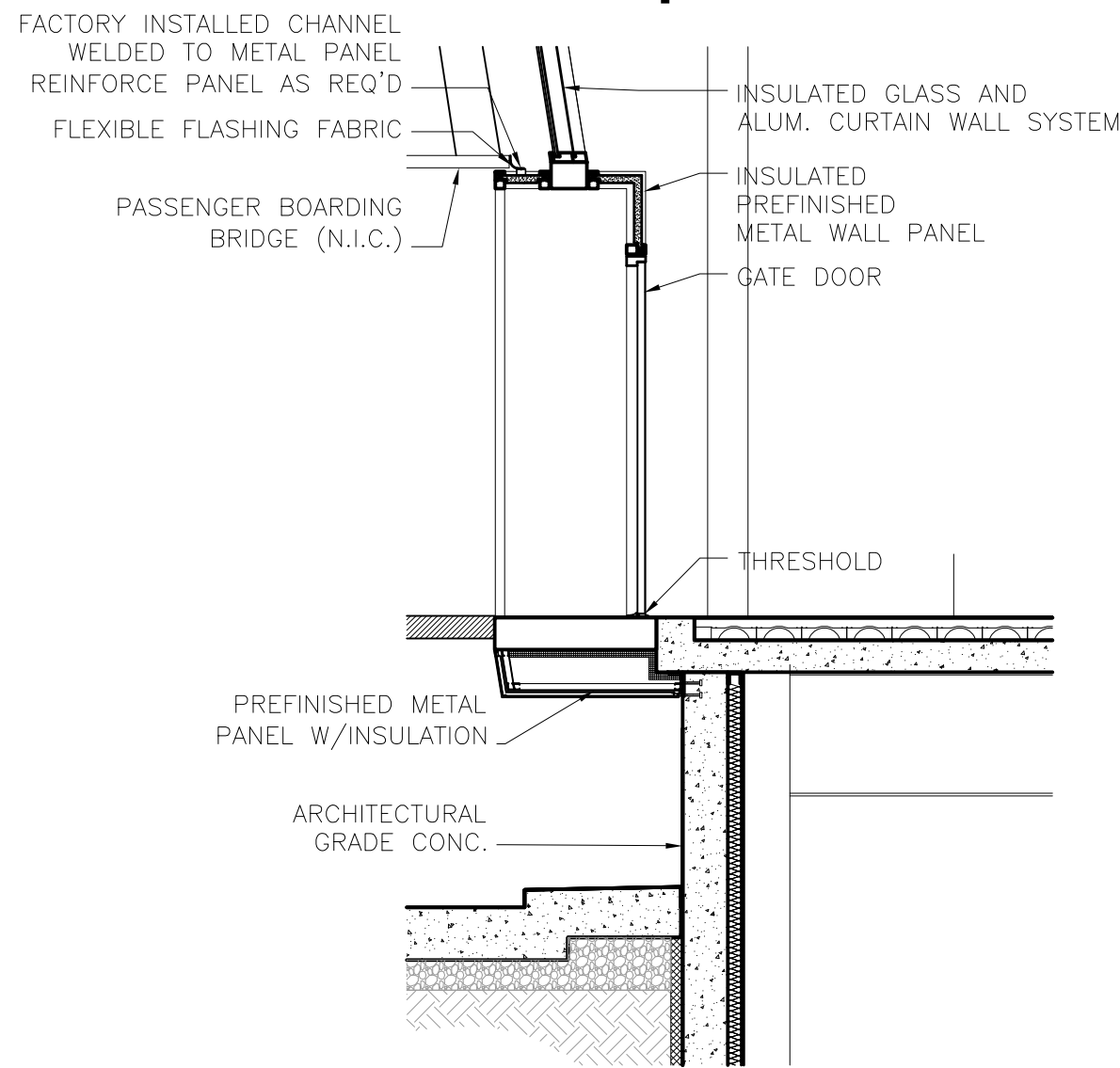
6 CURTAIN WALL HORIZONTAL MULLION DETAIL @ 2ND LEVEL  
1 1/2" = 1'-0"



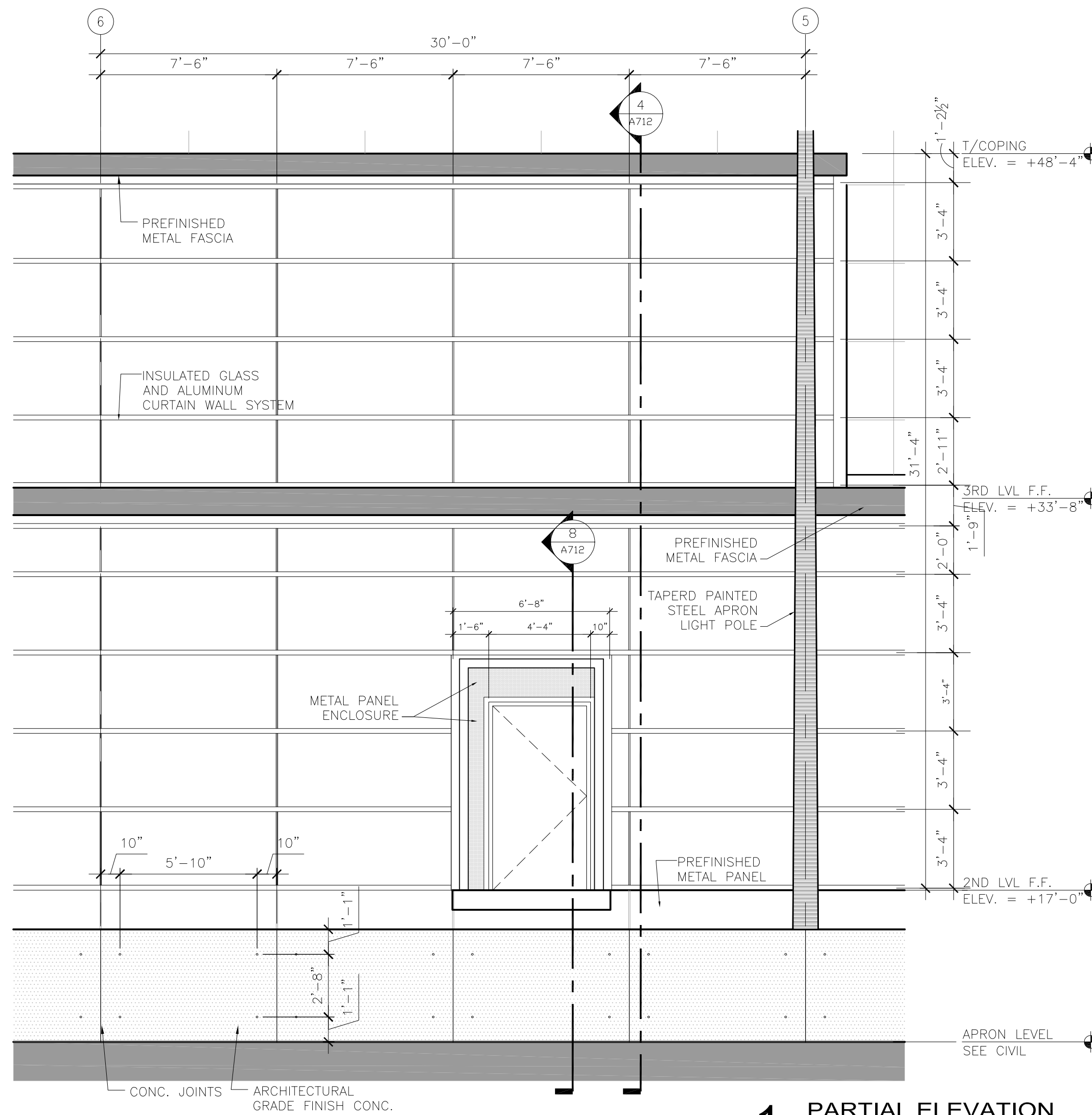
7 CURTAIN WALL SILL DETAIL  
1 1/2" = 1'-0"



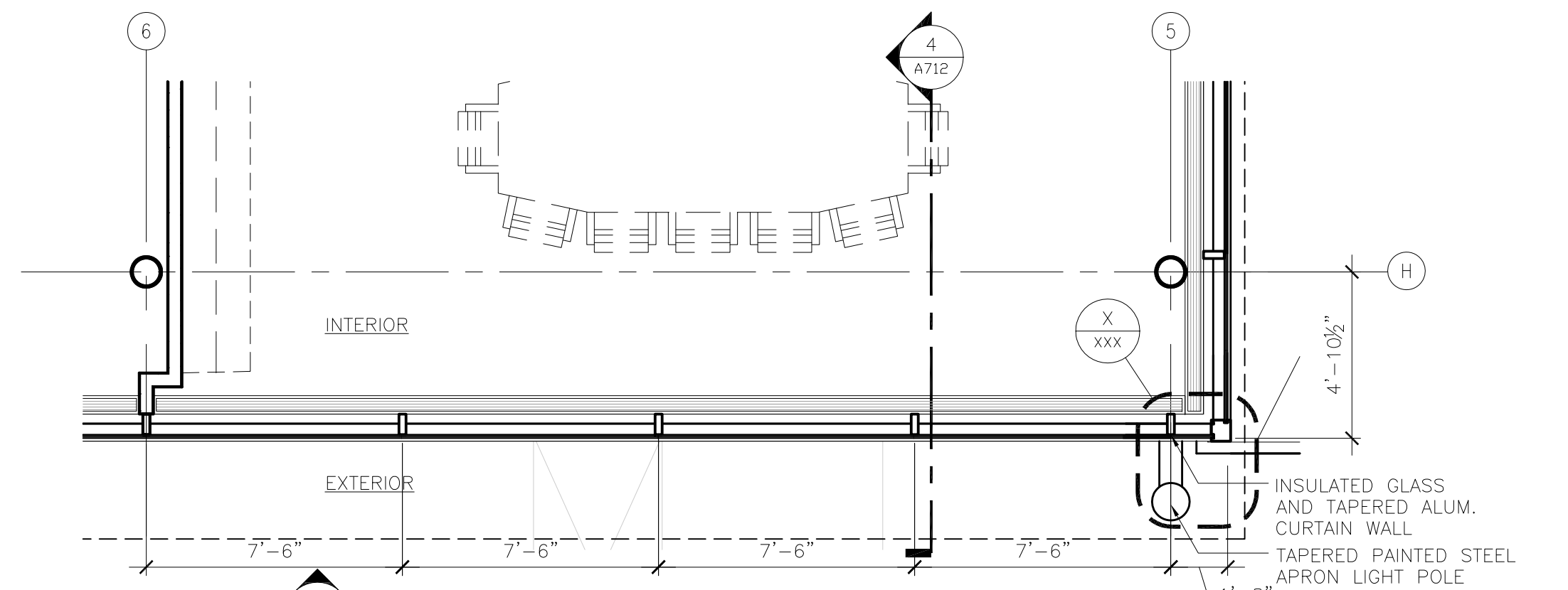
4 WALL SECTION  
1/4" = 1'-0"



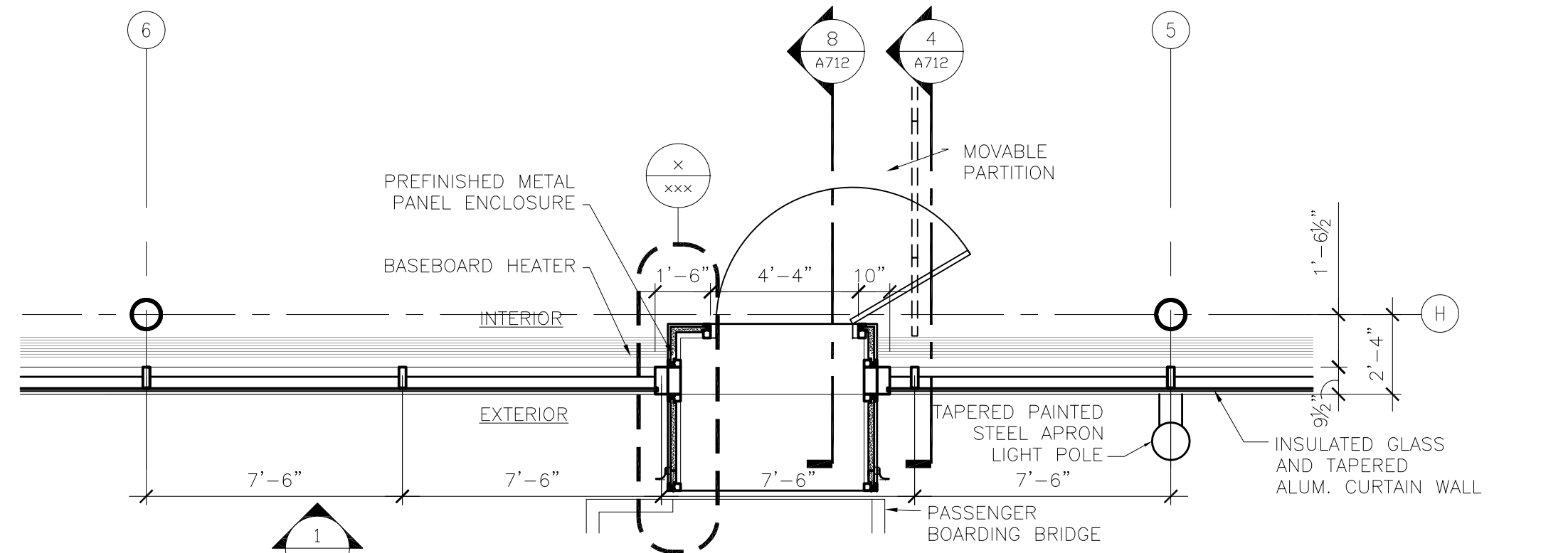
8 WALL SECTION  
1/4" = 1'-0"



1 PARTIAL ELEVATION  
1/4" = 1'-0"



2 PARTIAL 3RD LEVEL FLOOR PLAN  
1/4" = 1'-0"



3 PARTIAL 2ND LEVEL FLOOR PLAN  
1/4" = 1'-0"

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**DULUTH AIRPORT AUTHORITY**

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DULUTH, MN**

**NEW PASSENGER TERMINAL**

**CONSULTANTS**

Interior Architects:  
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11 E Superior Street Suite 340, Duluth MN 55802  
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
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Baggage Handling Systems Consultants:  
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TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants:  
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2432 East First Street, Duluth MN 55812  
TEL: (218) 591-5079

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**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC  
AEP PROJECT NUMBER  
213-1882-091  
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**SHEET TITLE**  
**EXTERIOR SYSTEMS  
AIRSIDE  
CURTAIN WALL**

**SHEET NUMBER**  
**A712**

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CONSTRUCTION**



**CONSULTANTS**

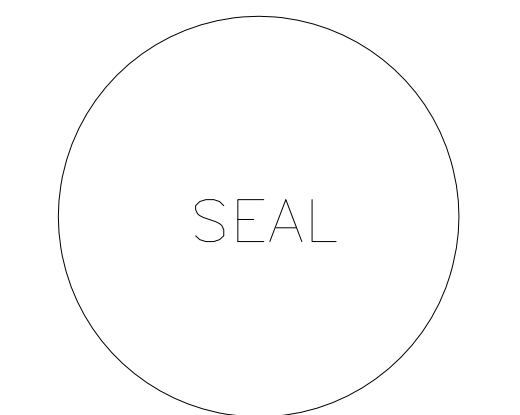
Interior Architects:  
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**REVISIONS**

NO.	DESCRIPTION	DATE

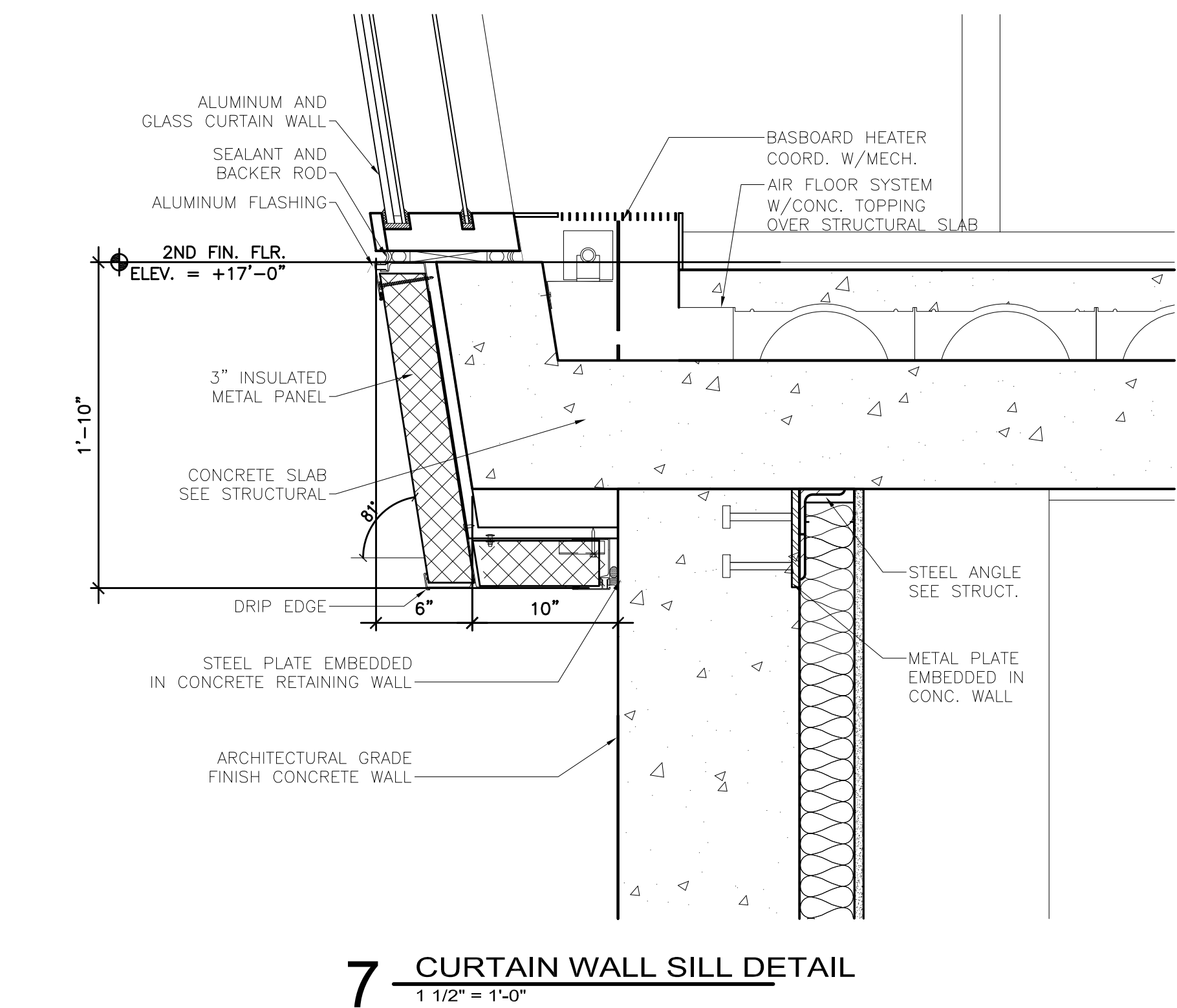
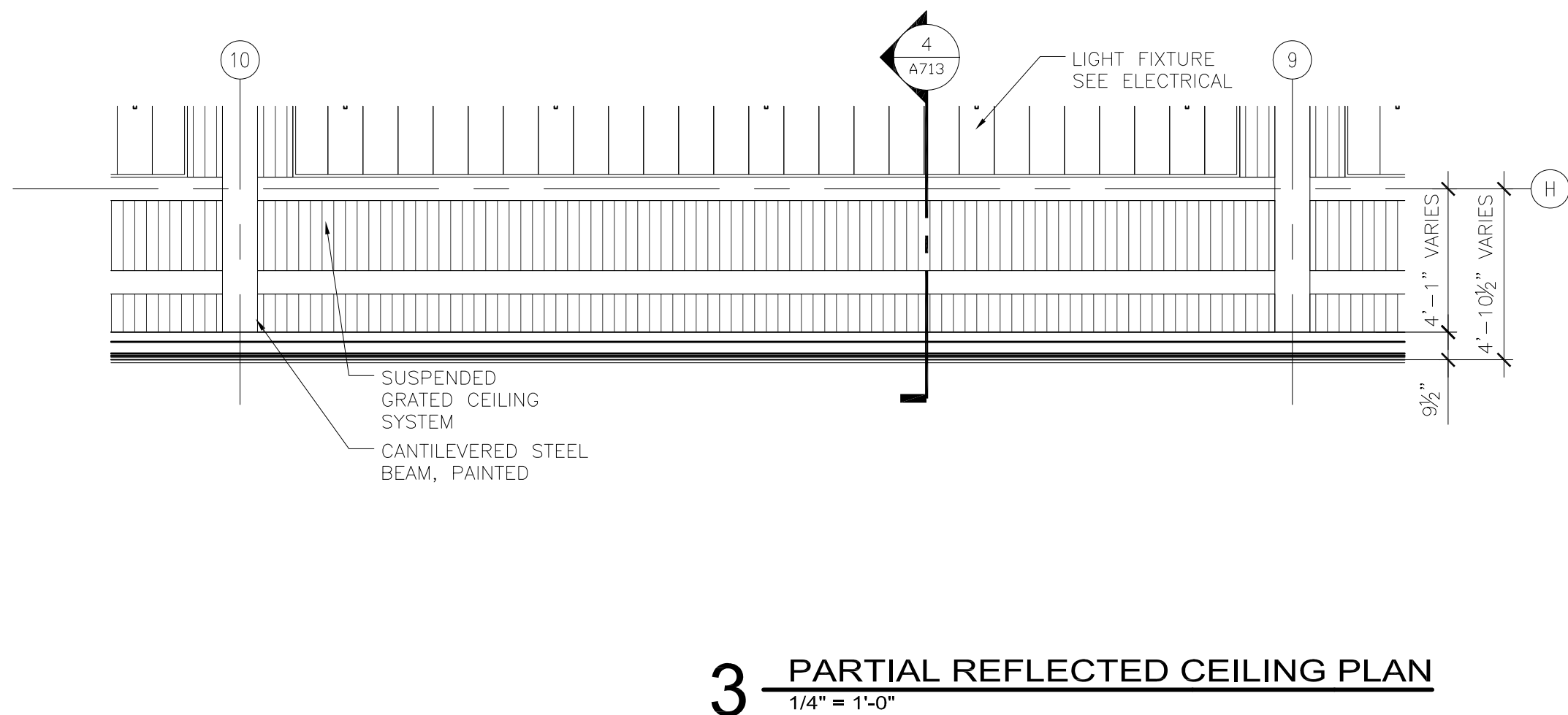
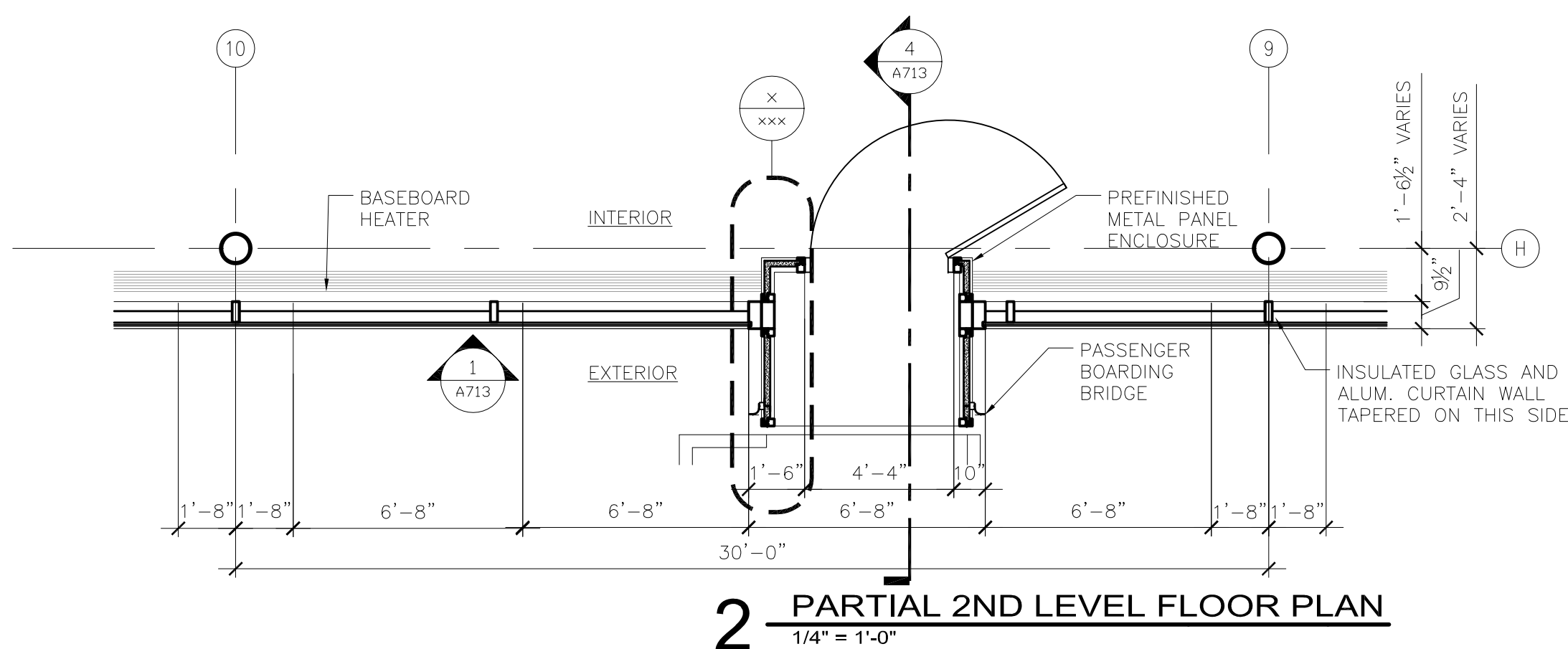
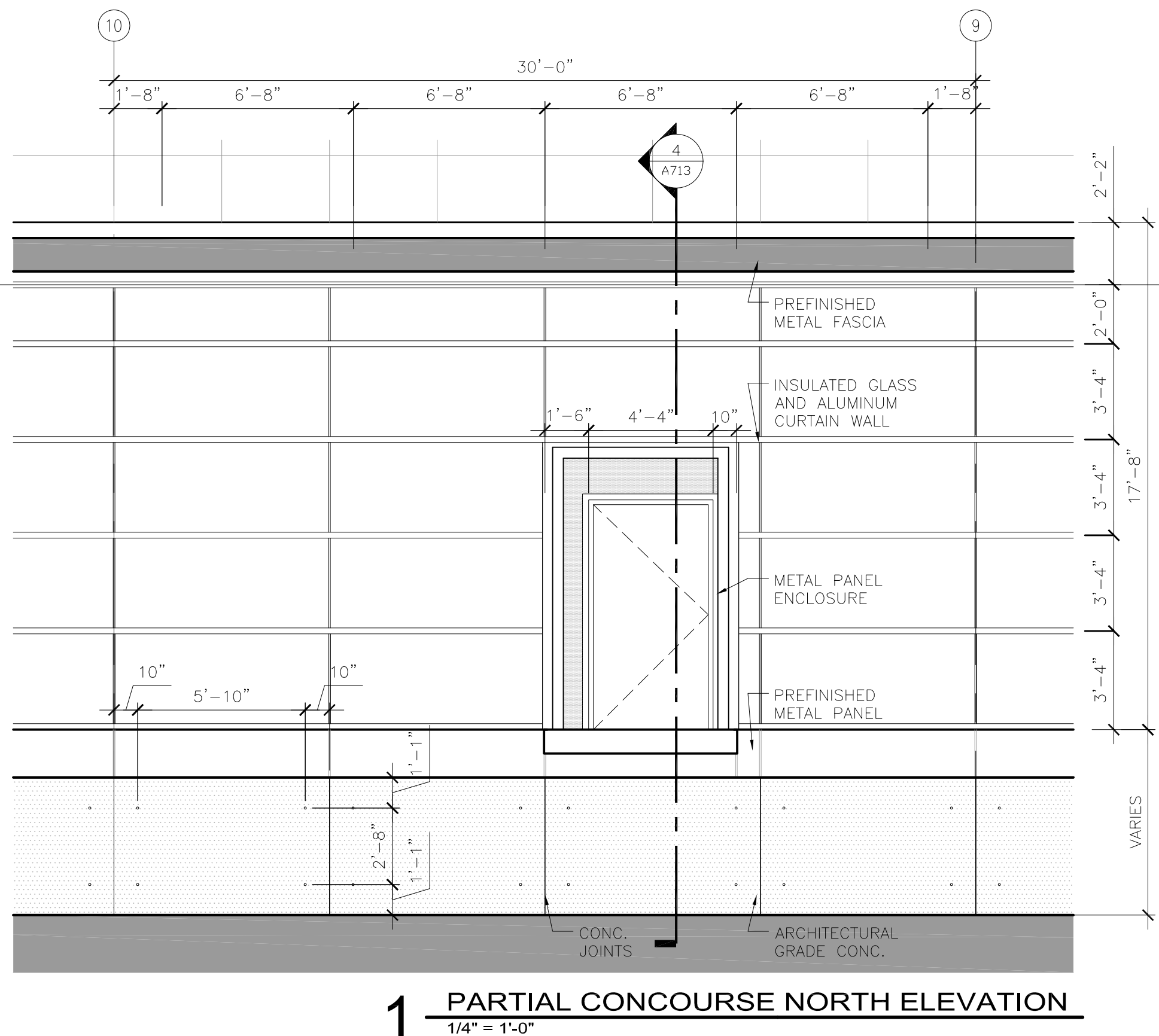
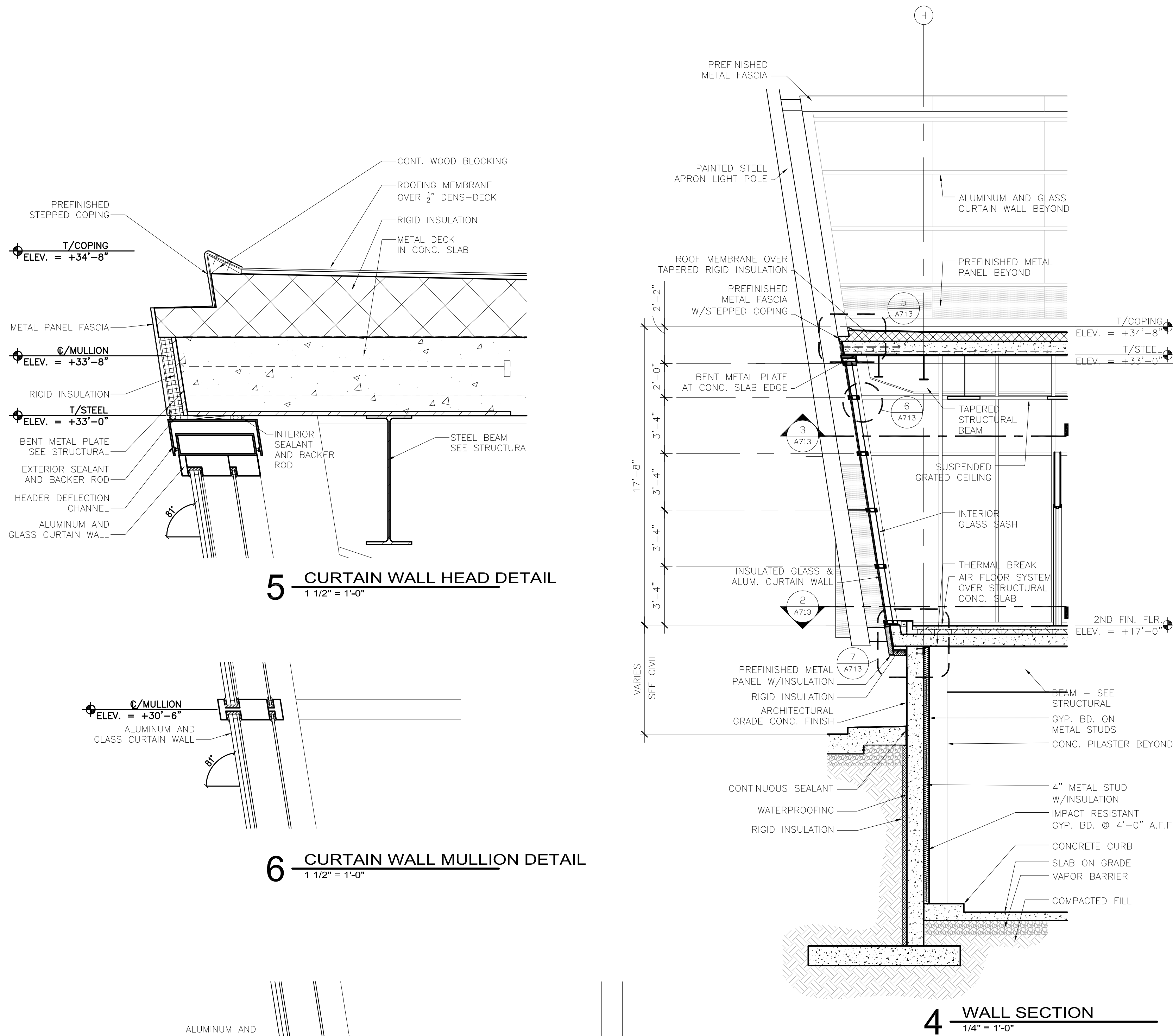
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**EXTERIOR SYSTEMS  
AIRSIDE  
CURTAIN WALL**

**SHEET NUMBER**  
**A713**

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**DULUTH  
INTERNATIONAL  
AIRPORT  
DULUTH, MN**

## NEW PASSENGER TERMINAL

## CONSULTANTS

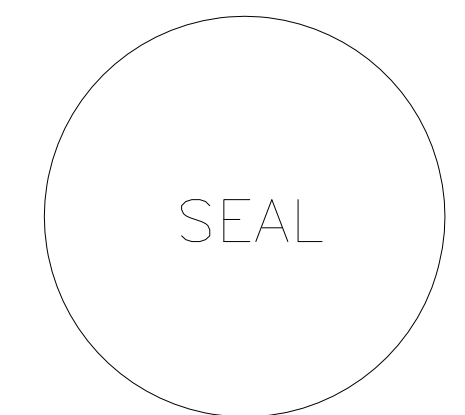
Interior Architects:  
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Structural Engineers:  
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## REVISIONS

[illegible]

**DATE ISSUED: 04-12-10**

**REVIEWED BY: SBS/TC**

**DRAWN BY: MKG/MI**

**DESIGNED BY: SBS/TC**

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**AEP PROJECT NUMBER**

**213-1882-091**

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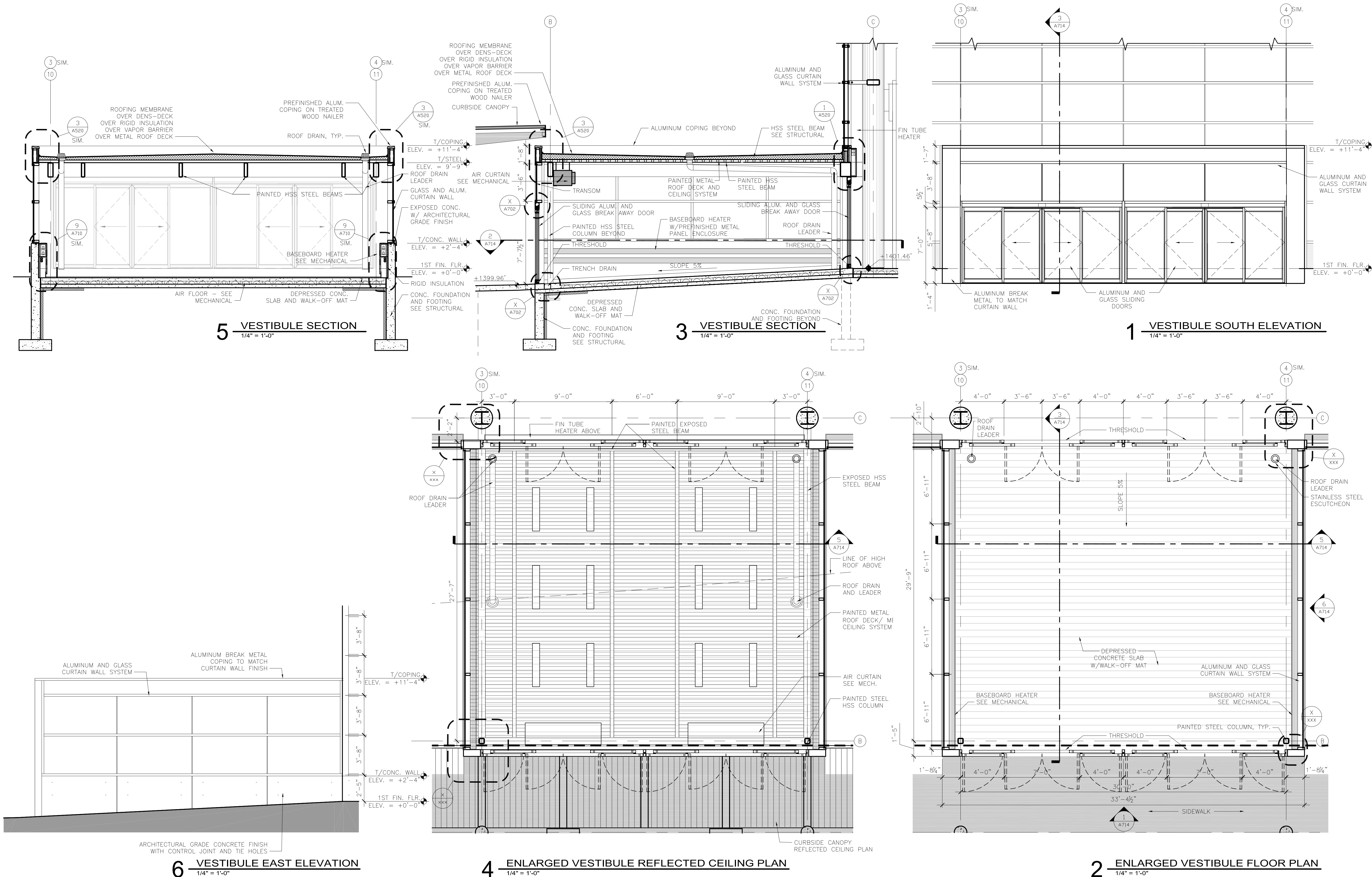
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**EXTERIOR SYSTEMS**

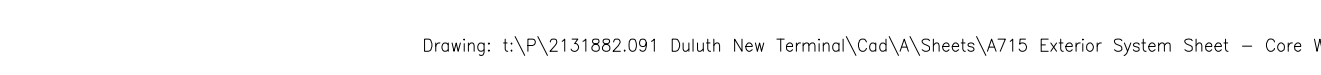
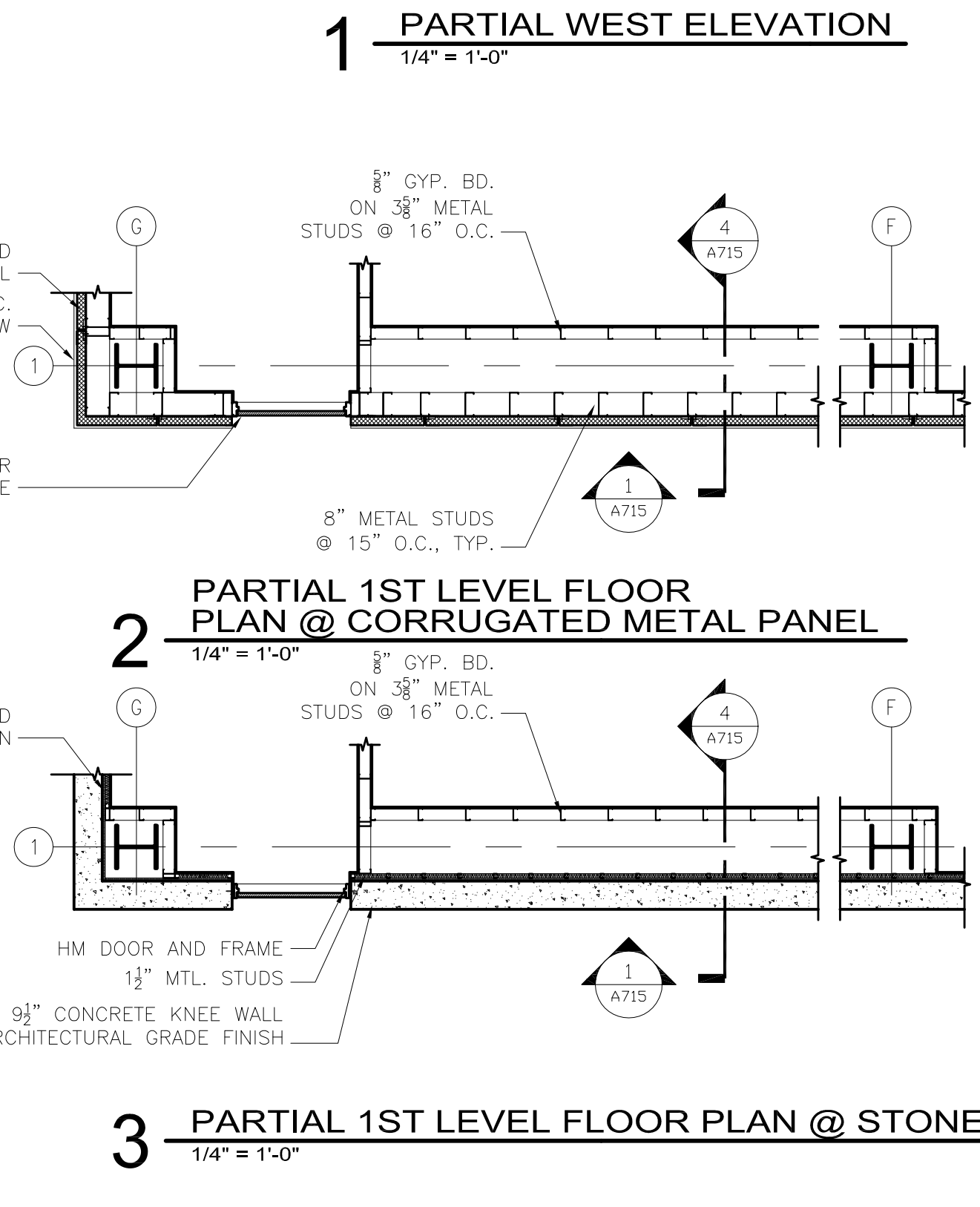
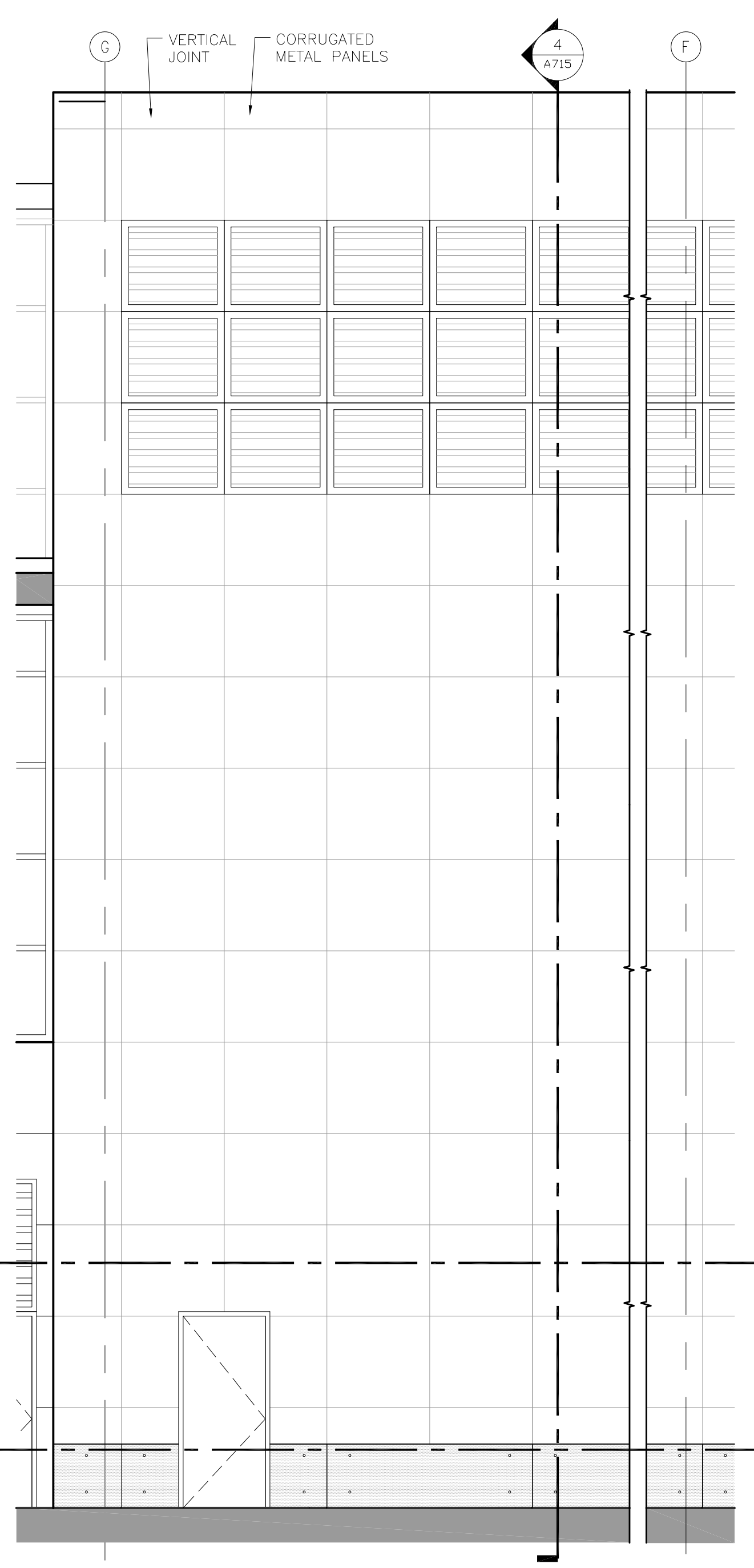
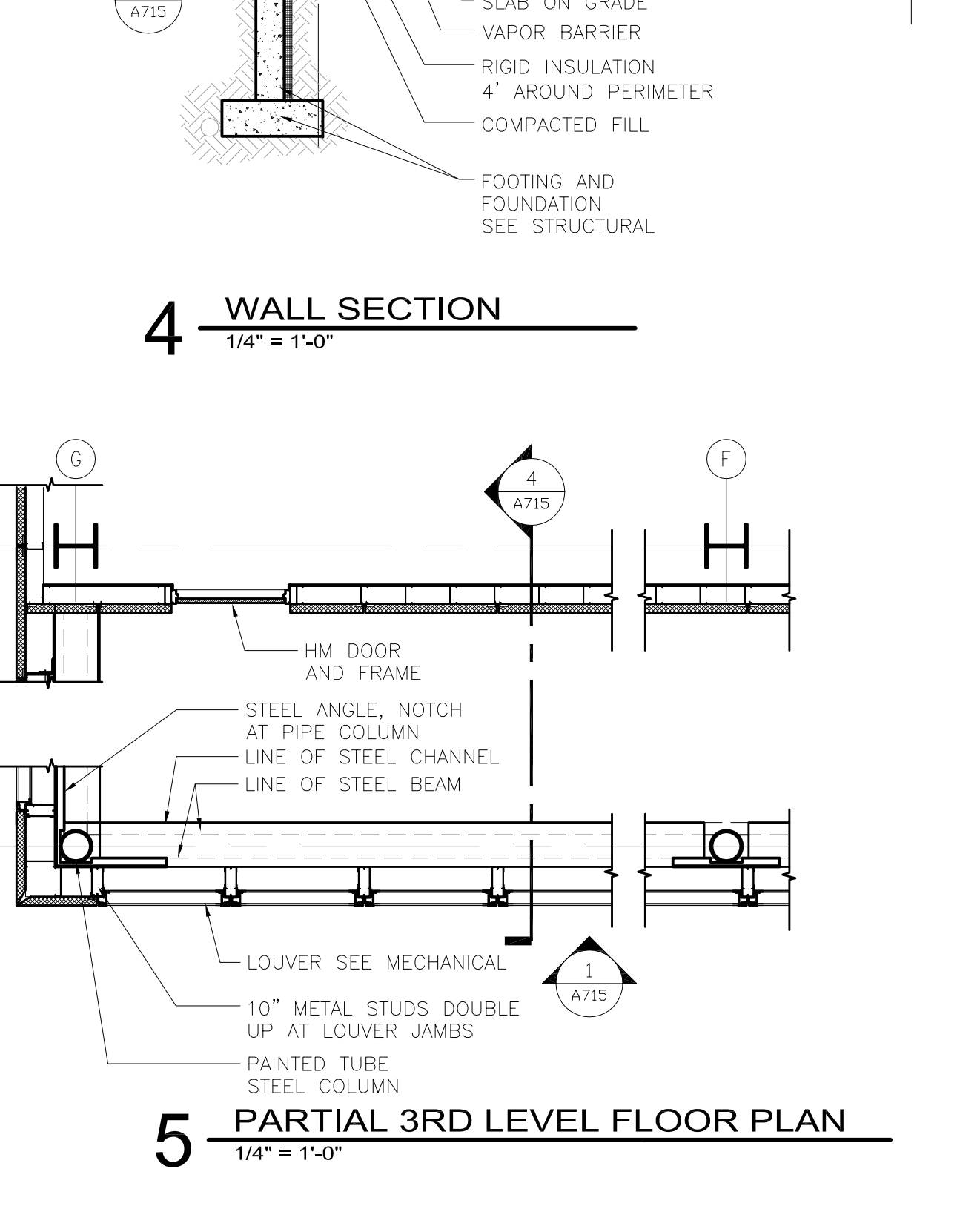
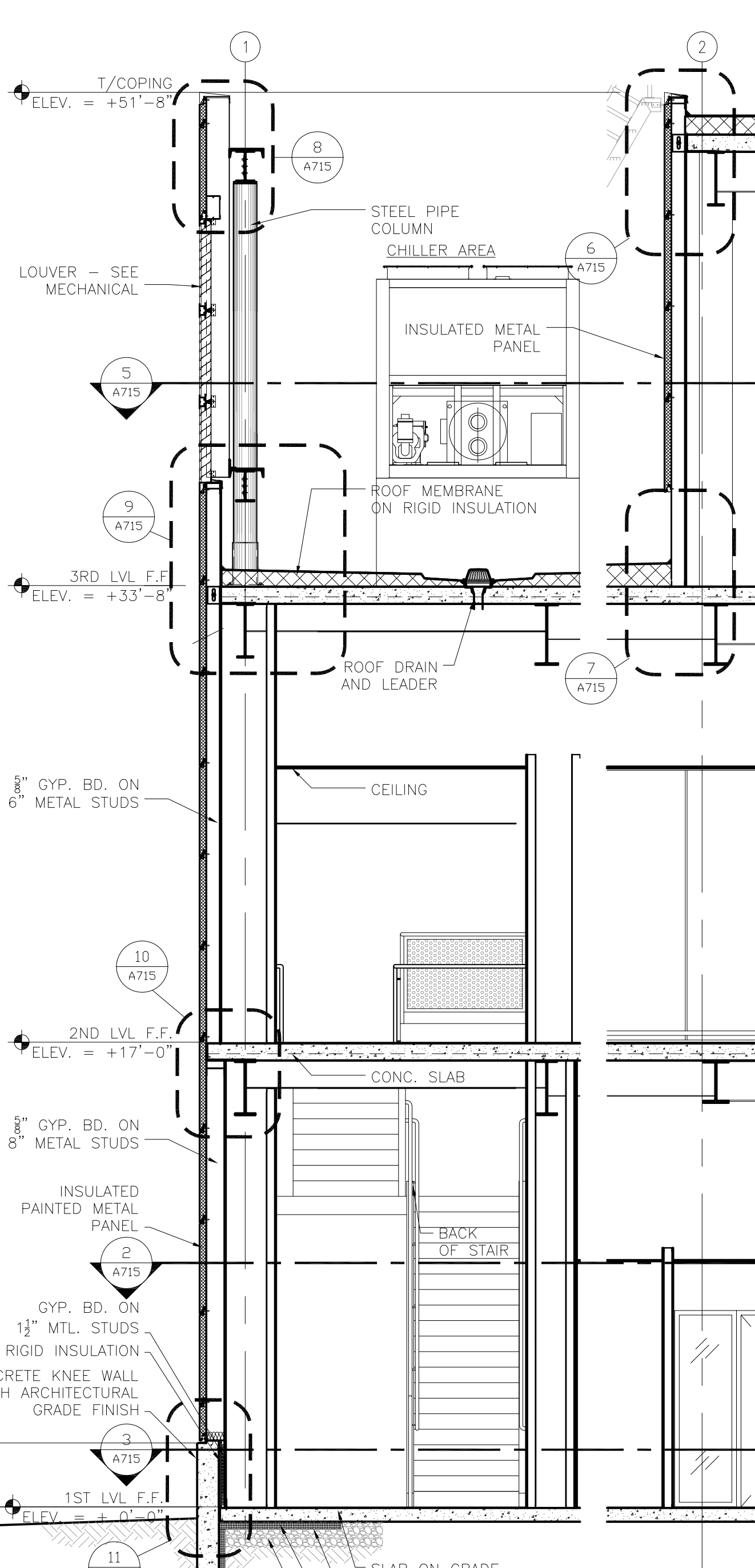
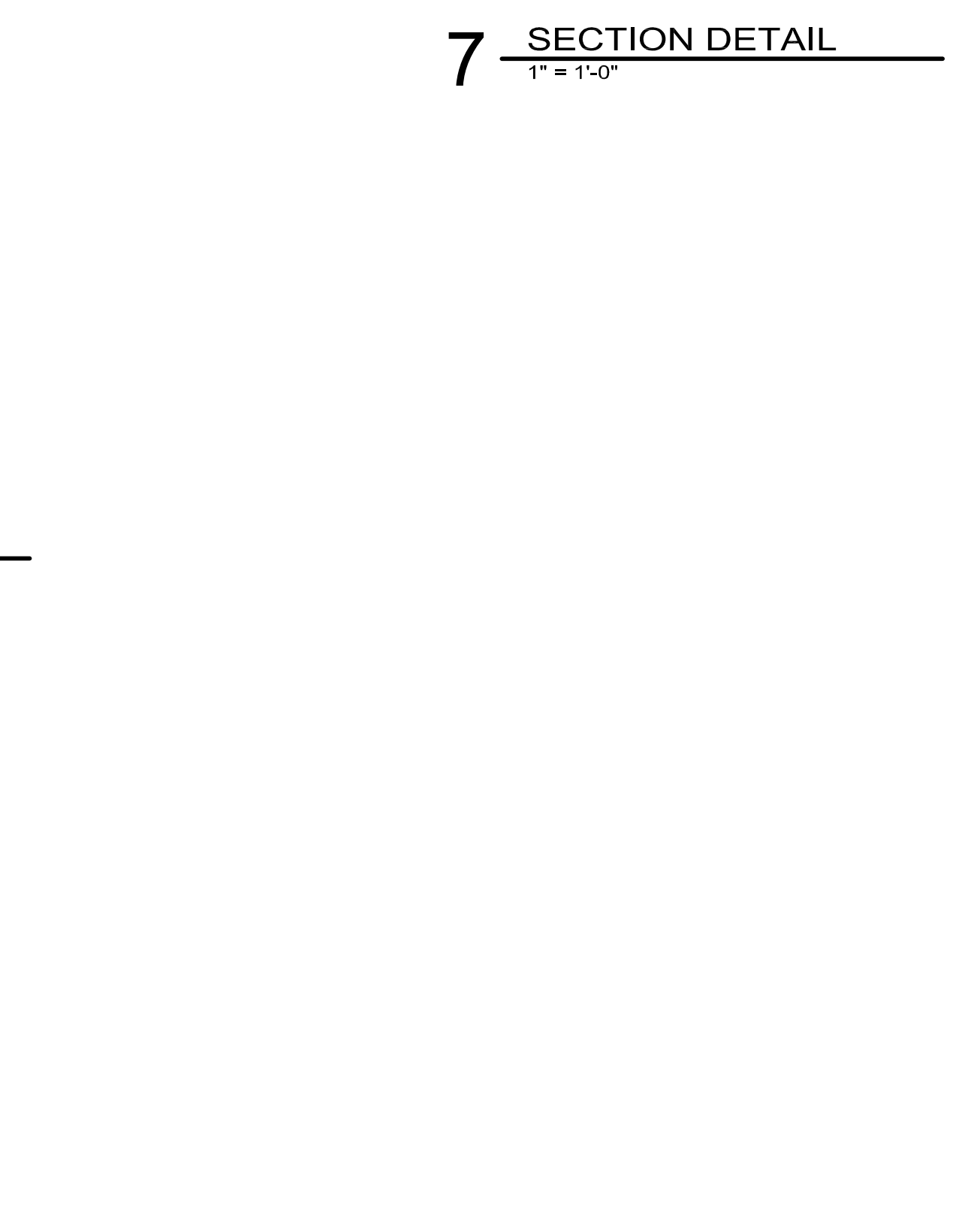
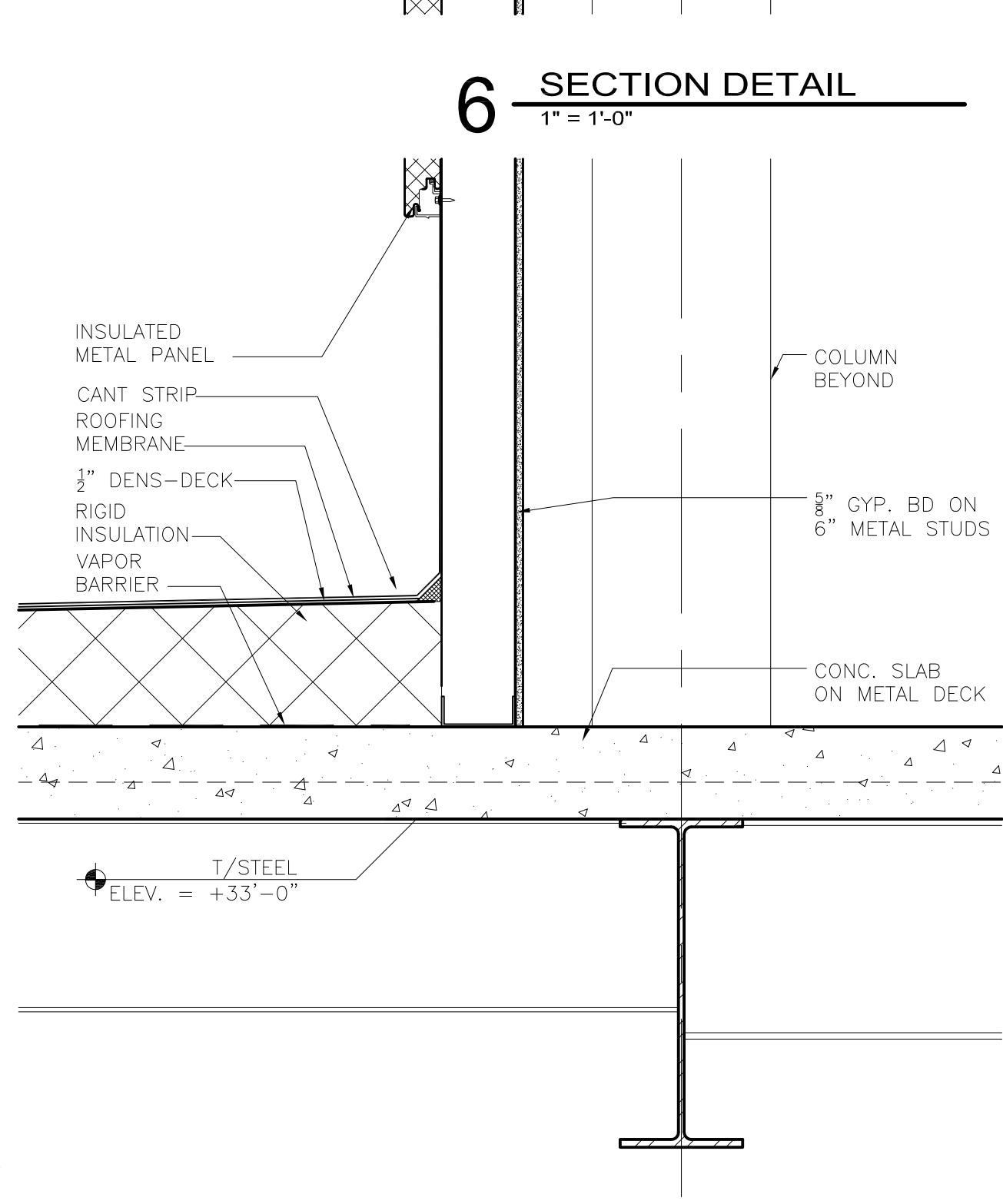
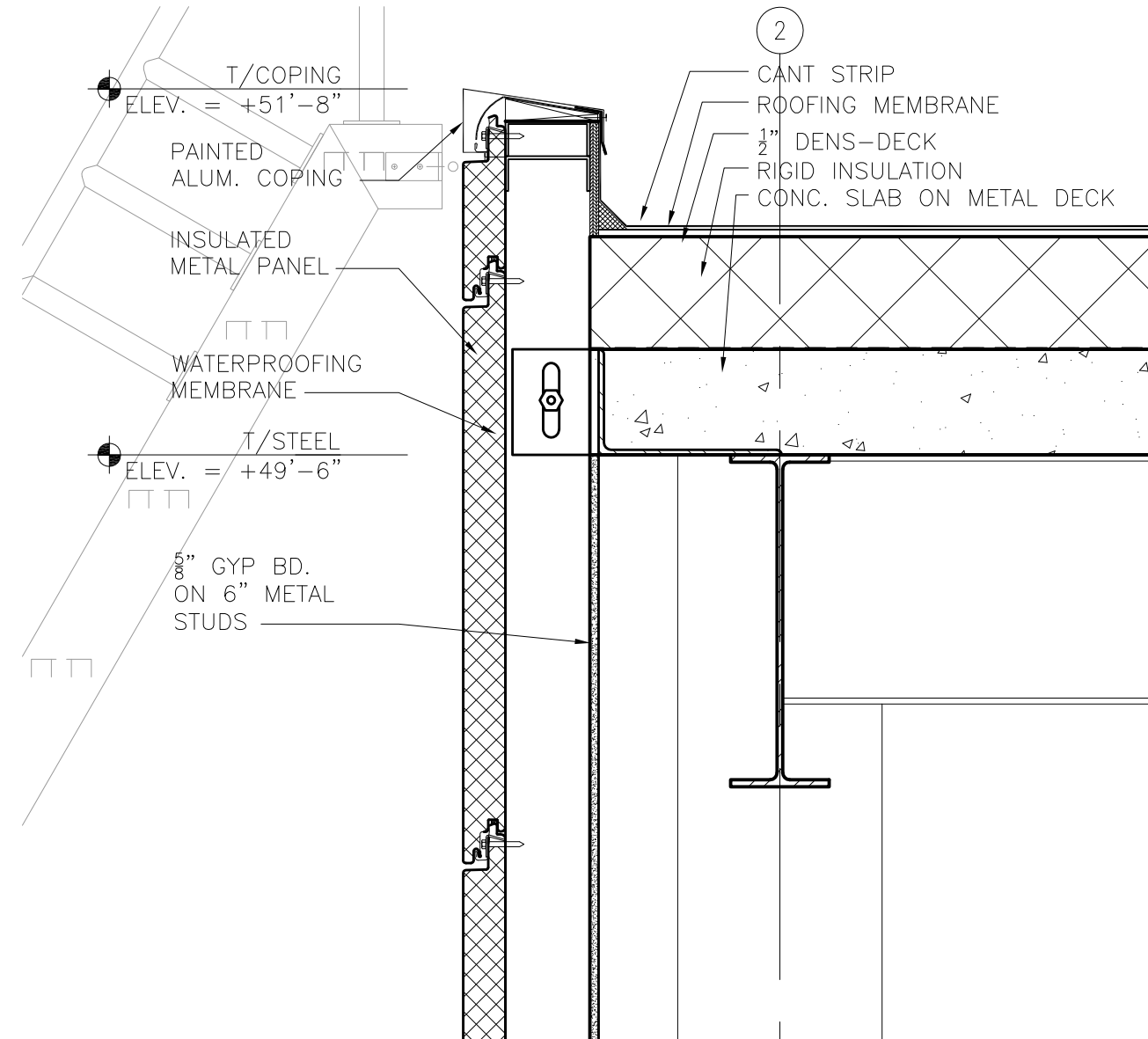
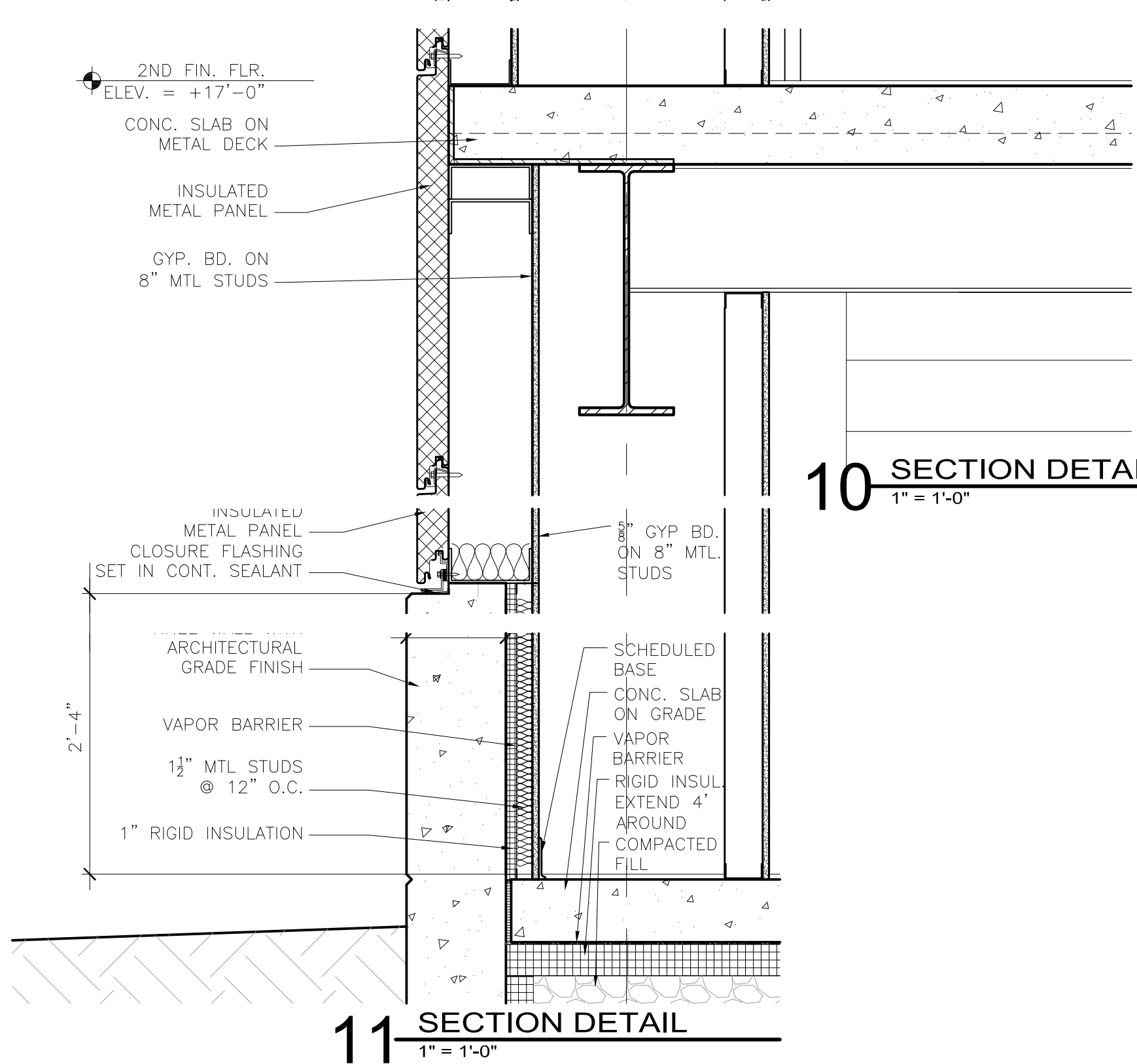
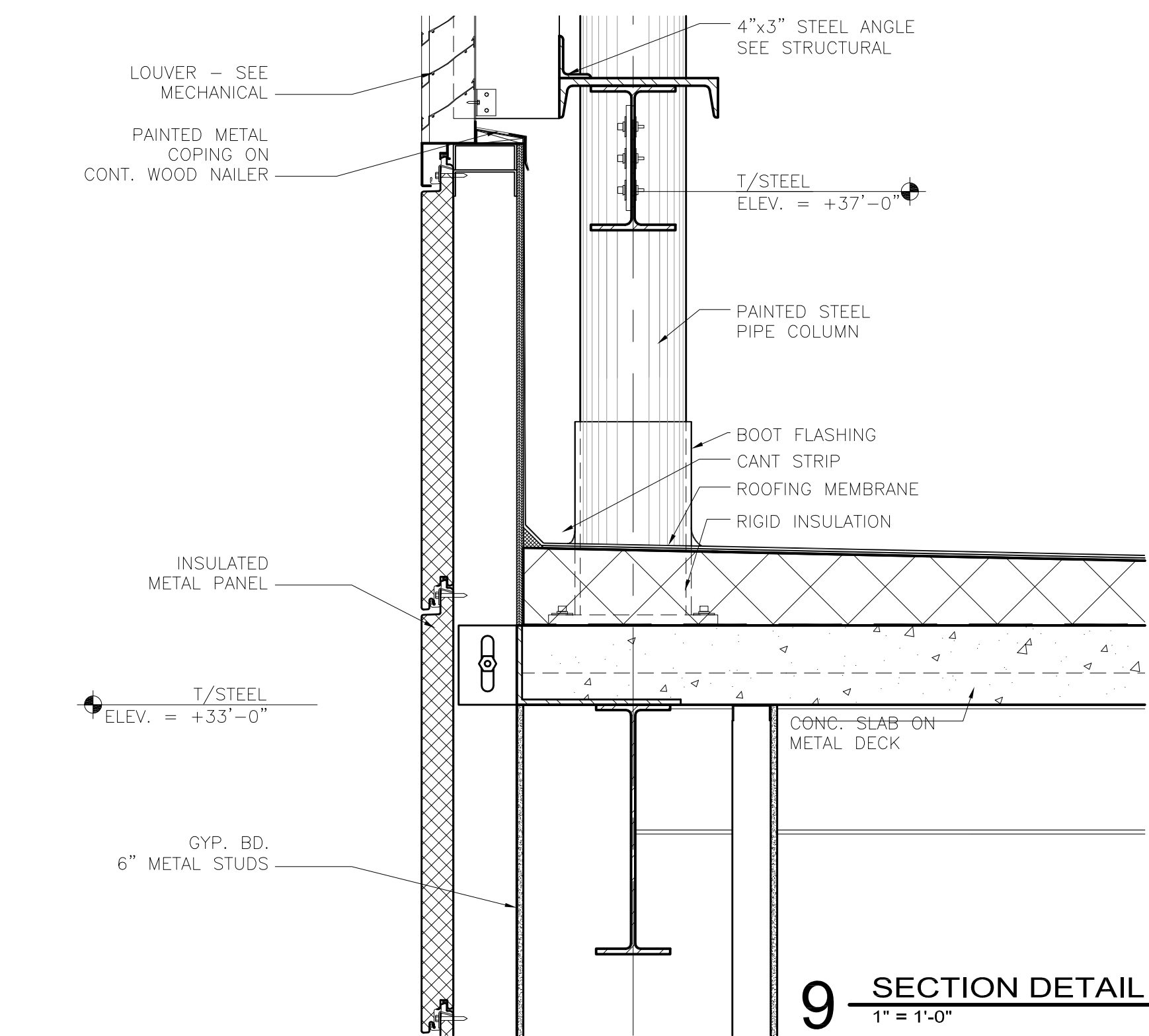
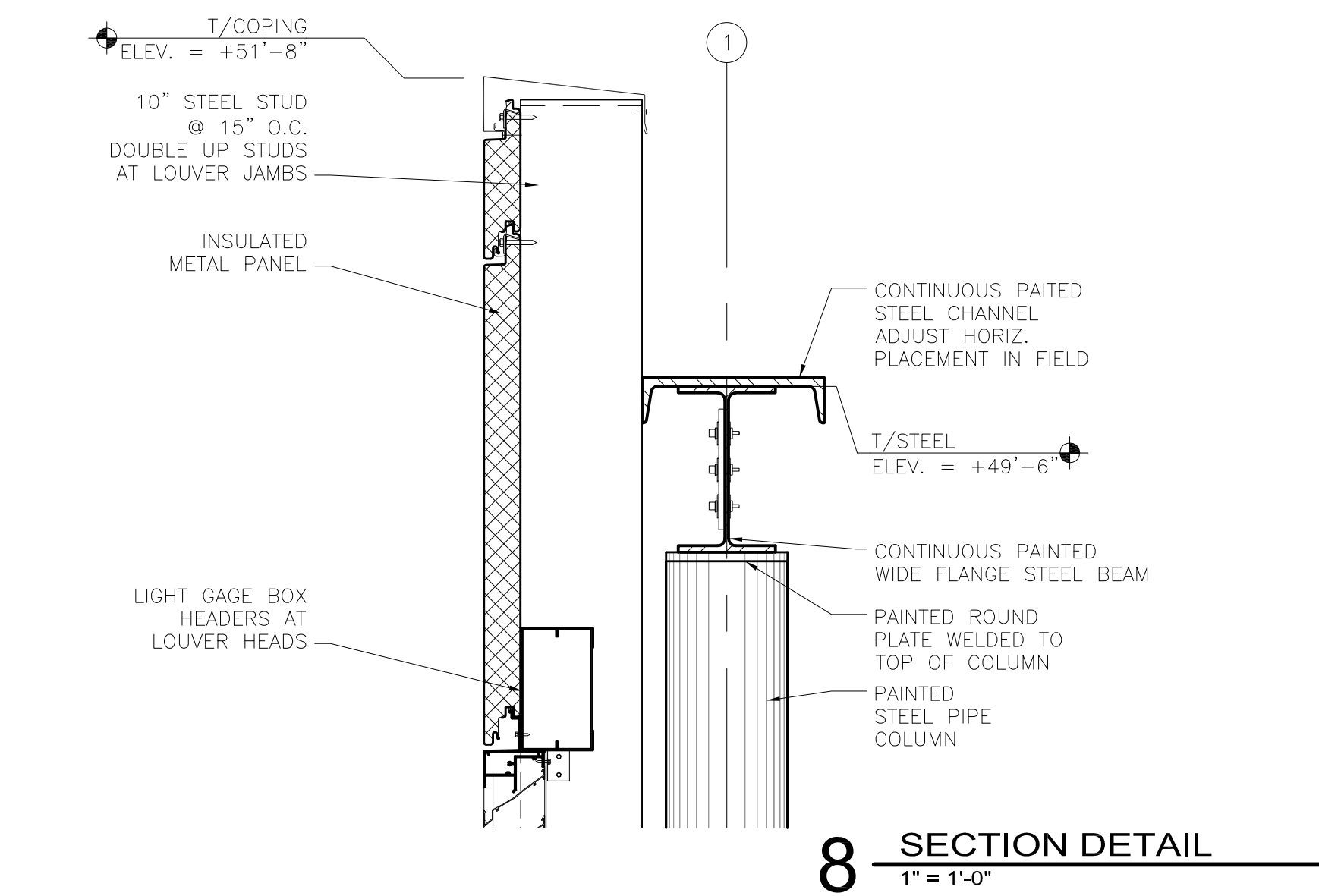
**ENTRY VESTIBULE**

**SHEET NUMBER**  
**A714**

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DULUTH, MN**

**NEW PASSENGER TERMINAL**

**CONSULTANTS**

Interior Architects:  
**SJA ARCHITECTS**  
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TEL: (218) 724-8578 / FAX: (218) 724-8717

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TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants:  
**APPOLD DESIGN**  
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TEL: (218) 591-5079

**SEAL**

**REVISIONS**

NO.	DESCRIPTION	DATE

**DATE ISSUED: 04-12-10**  
**REVIEWED BY: SBS/TC**  
**DRAWN BY: MKG/MI**  
**DESIGNED BY: SBS/TC**

**AEP PROJECT NUMBER**  
**213-1882-091**  
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**SHEET TITLE**  
**EXTERIOR SYSTEMS  
CORE WALL**

**SHEET NUMBER**  
**A715**

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## NEW PASSENGER TERMINAL

## CONSULTANTS

**Interior Architects:**

**SJA ARCHITECTS**

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TEL: (218) 724-8578 / FAX: (218) 724-8717

**Structural Engineers:**

**MBJ CONSULTING ENG.**  
501 Lake Avenue South, Suite 300, Duluth MN 55812  
TEL: (218) 722-1056 / FAX: (218) 722-9306

**M/E/P/FP Engineers:**

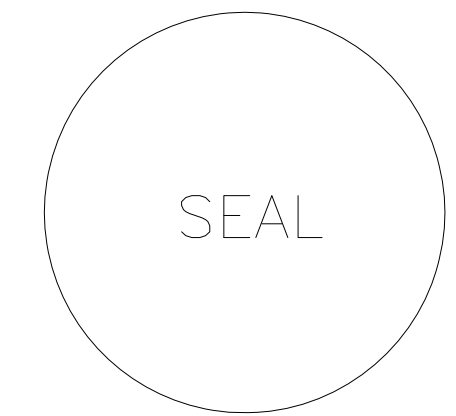
**COSENTINI ASSOCIATES INC**  
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Baggage Handling Systems Consultants:

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## Landscaping Consultants

**APPOLD DESIGN**  
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## REVISIONS

[illegible]

**DATE ISSUED: 04-12-10**

REVIEWED BY: SBS/T

DRAWN BY: MKG/M

DESIGNED BY: SBS/T

AEP PROJECT NUMBER

**213-1882-09-**

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**SHEET TITLE**

## EXTERIOR SYSTEMS TUG TUNNEL

**SHEET NUMBER**

# A720

**90% NOT FOR CONSTRUCTION**


$$1/8'' = 1'-0''$$

**WEST ELEVATION SIMILAR**

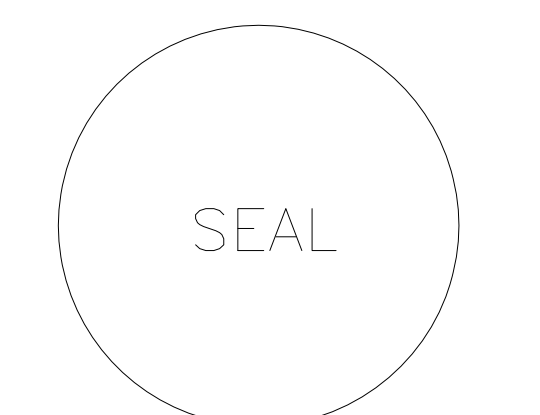
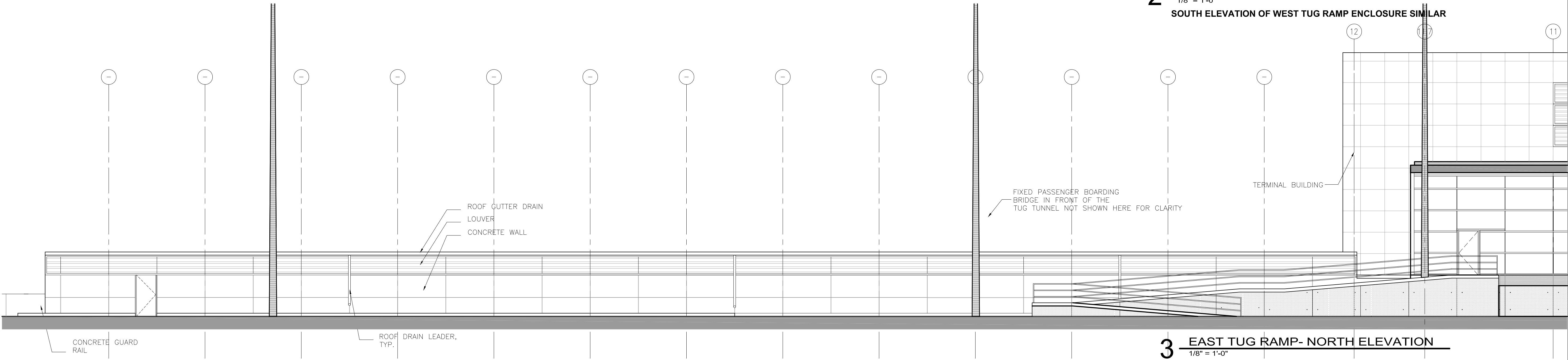
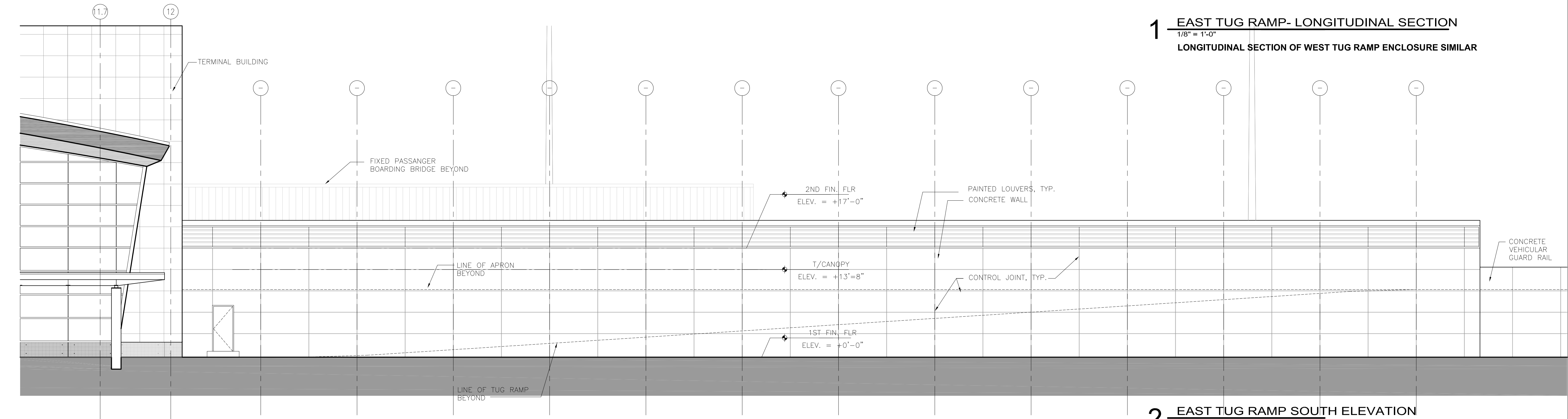
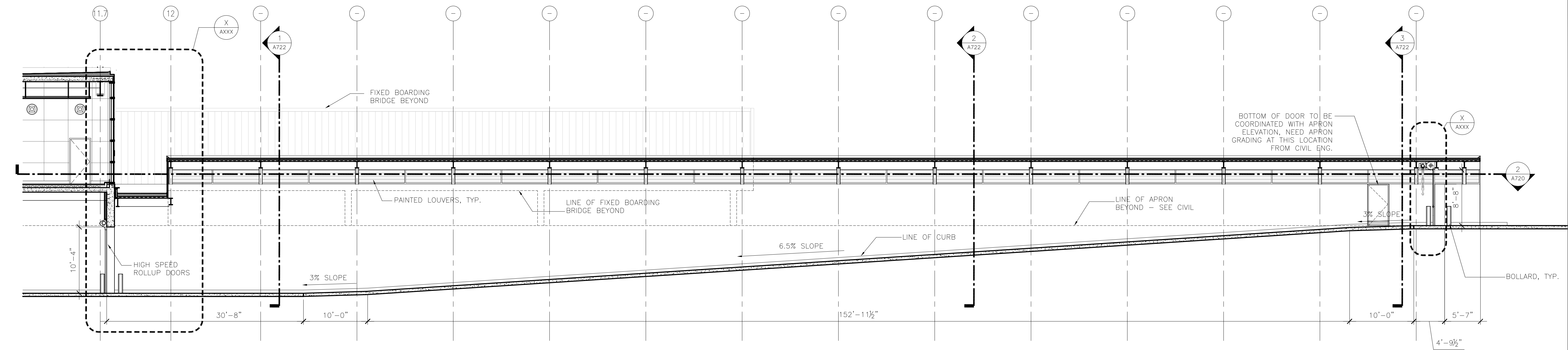

$$1/8'' = 1'-0''$$

**WEST TUG RAMP CLEARSTORY PLAN SIMILAR**


$$1/8'' = 1'-0''$$

**WEST TUG RAMP ROOF SIMILAR**





REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
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DRAWN BY: MKG/MI  
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AEP PROJECT NUMBER  
**213-1882-091**  
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SHEET TITLE  
**EXTERIOR SYSTEMS  
TUG TUNNEL**

SHEET NUMBER  
**A721**

**90% NOT FOR  
CONSTRUCTION**



CONSULTANTS

Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 340, Duluth MN 55802  
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:  
**MBJ CONSULTING ENG.**  
501 Lake Avenue South, Suite 300, Duluth MN 55802  
TEL: (218) 722-1056 / FAX: (218) 722-9306

M/E/P/F Engineers:  
**COSENTINI ASSOCIATES INC.**  
1 South Wacker Drive, 37th Floor, Chicago IL 60606  
TEL: (312) 201-7406 / FAX: (312) 201-0031

Baggage Handling Systems Consultants:  
**BNP ASSOCIATES INC.**  
101 East Ridge Office Park, Suite 103, Danbury CT 06810  
TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants:  
**APPOLD DESIGN**  
2432 East First Street, Duluth MN 55812  
TEL: (218) 591-5079



REVISIONS

NO.	DESCRIPTION	DATE

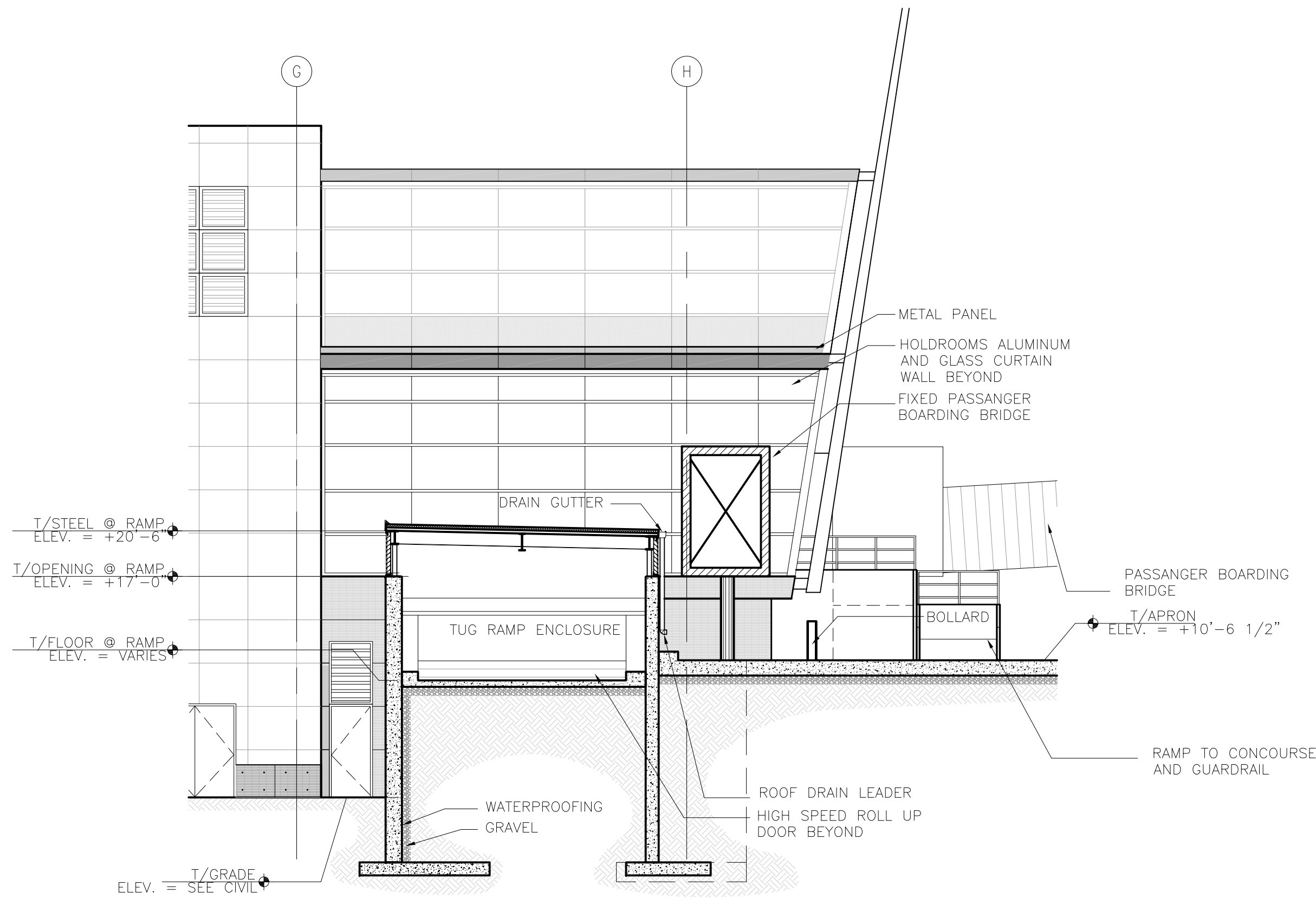
DATE ISSUED: 04-12-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
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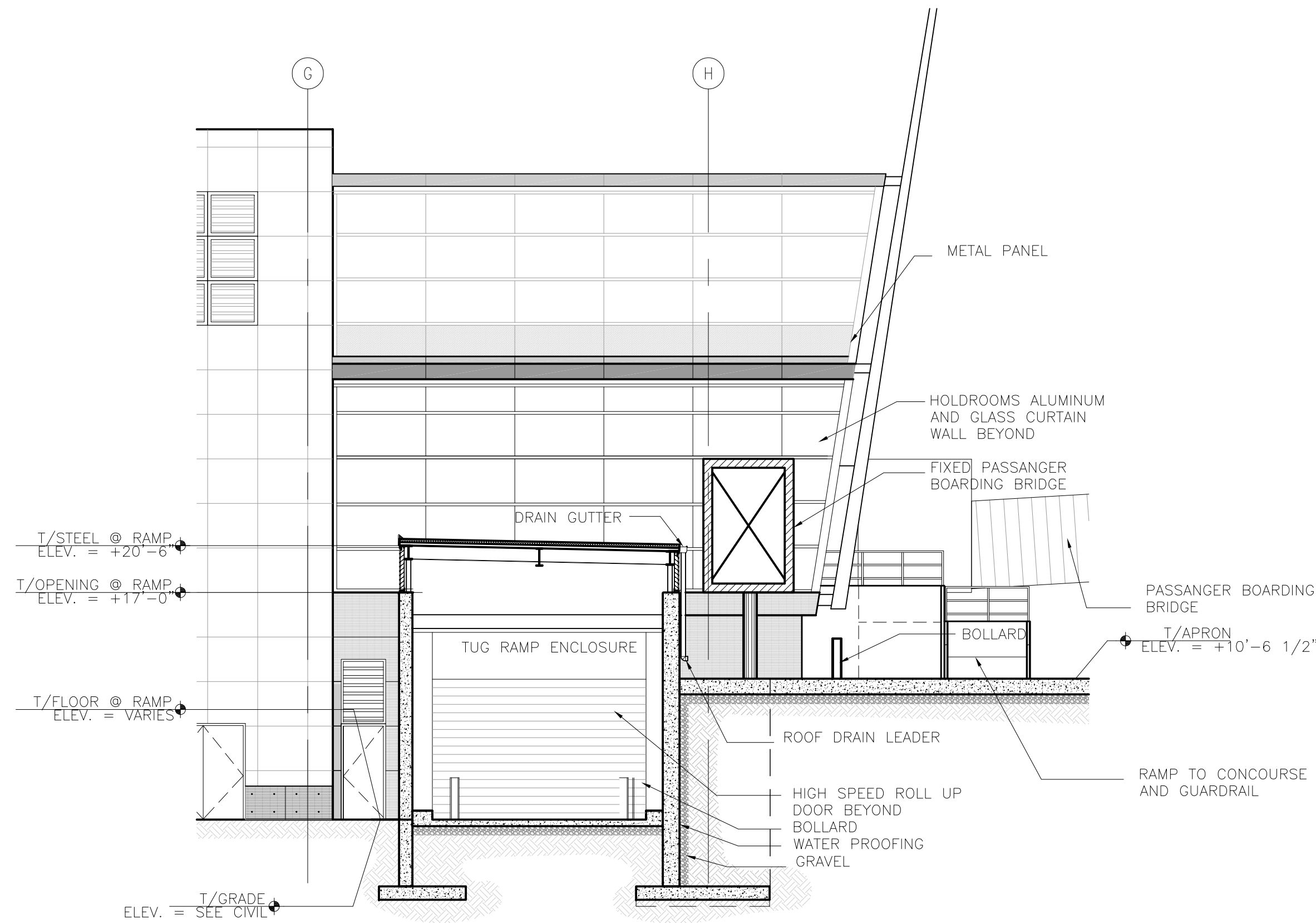
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**EXTERIOR SYSTEMS  
TUG TUNNEL**

SHEET NUMBER  
**A722**

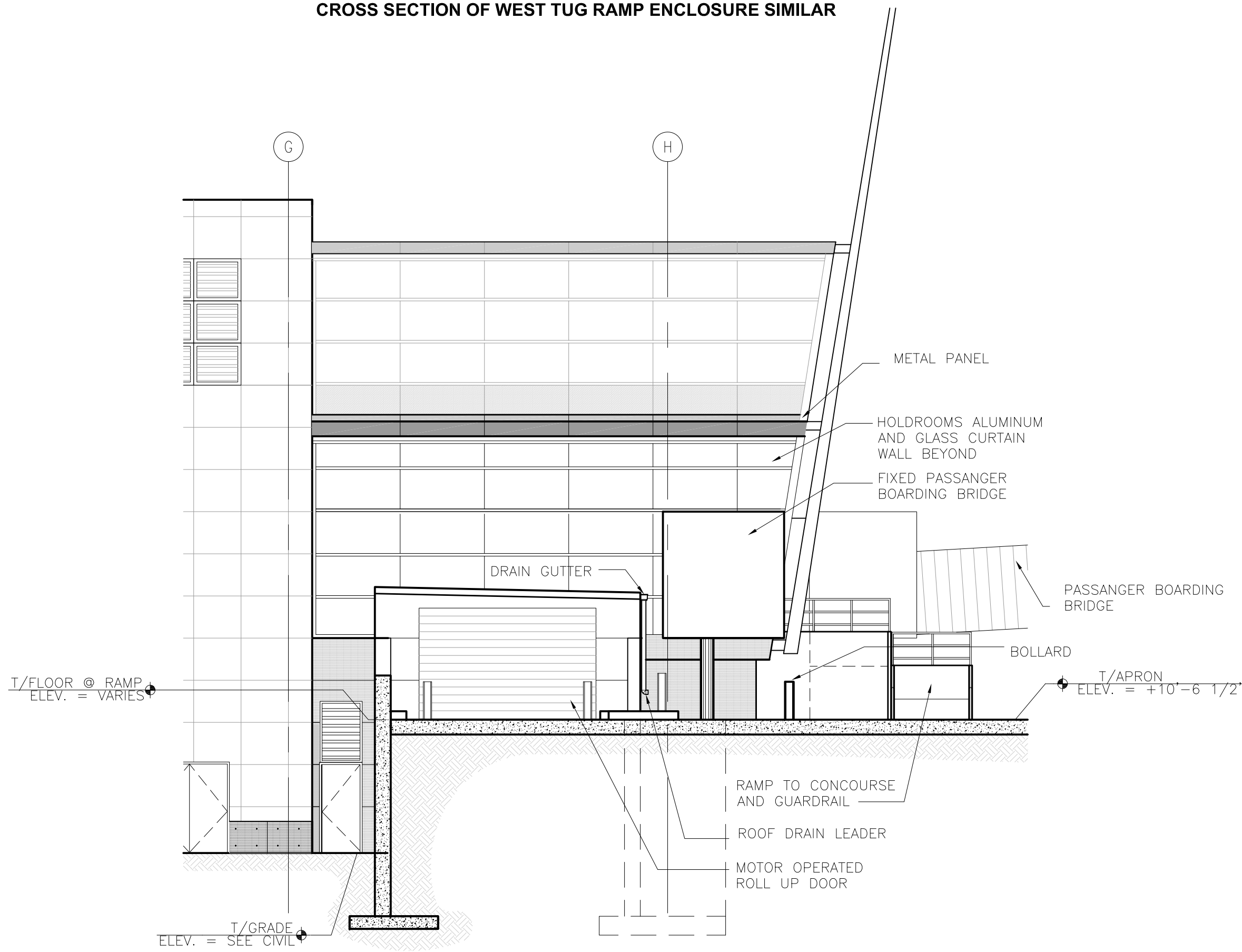
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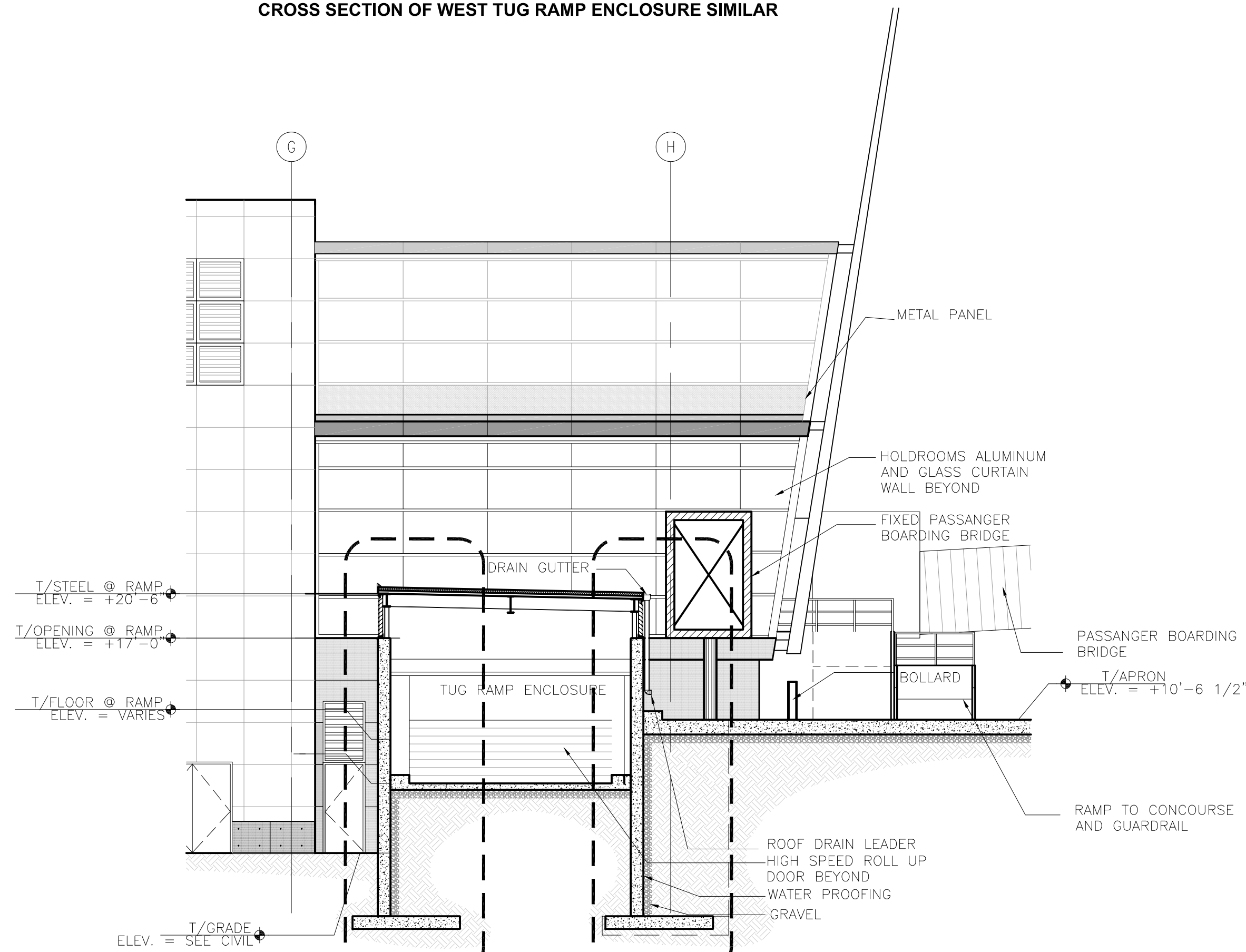
**3 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND**  
1/8" = 1'-0"  
CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR



**1 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND**  
1/8" = 1'-0"  
CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR

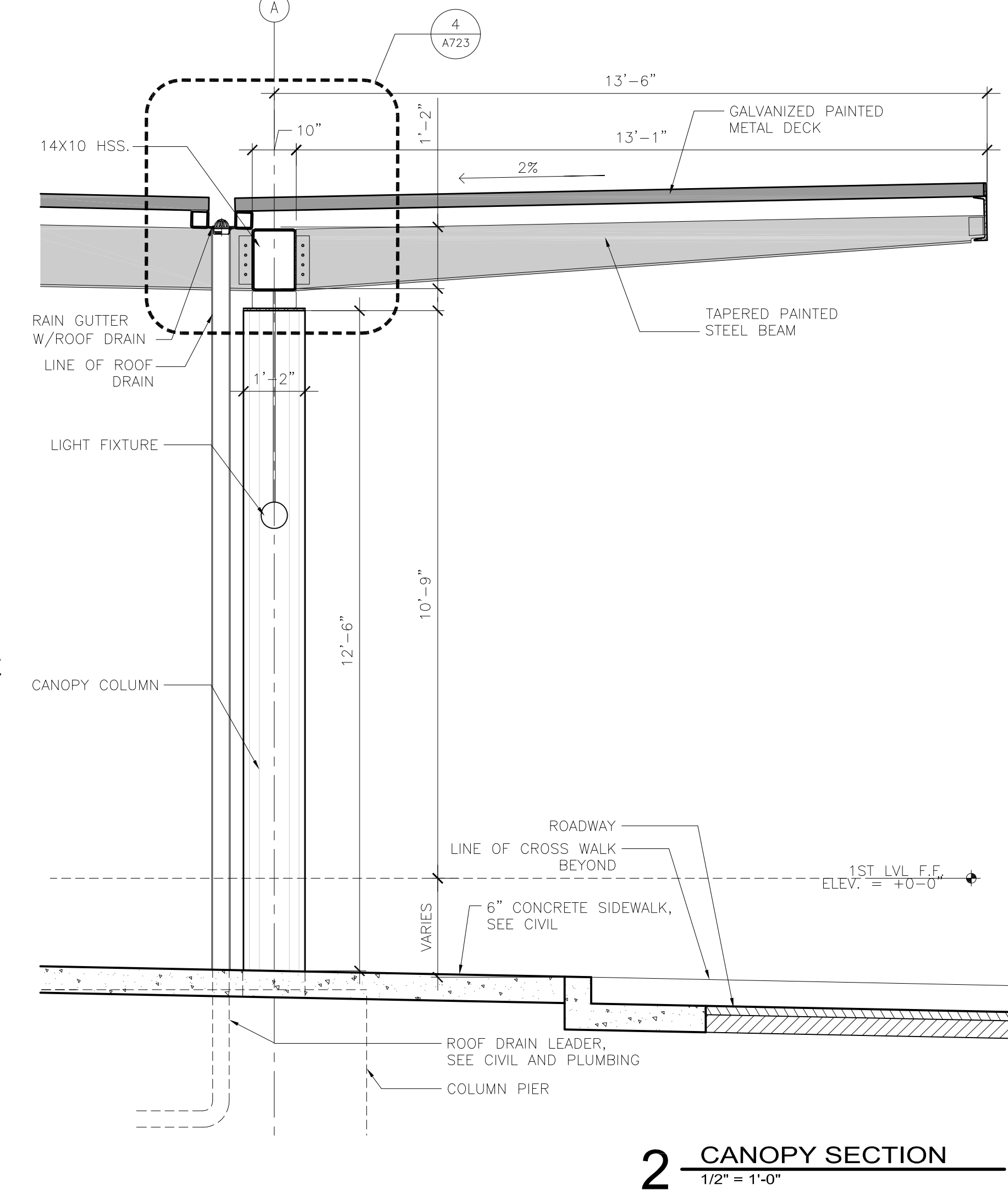
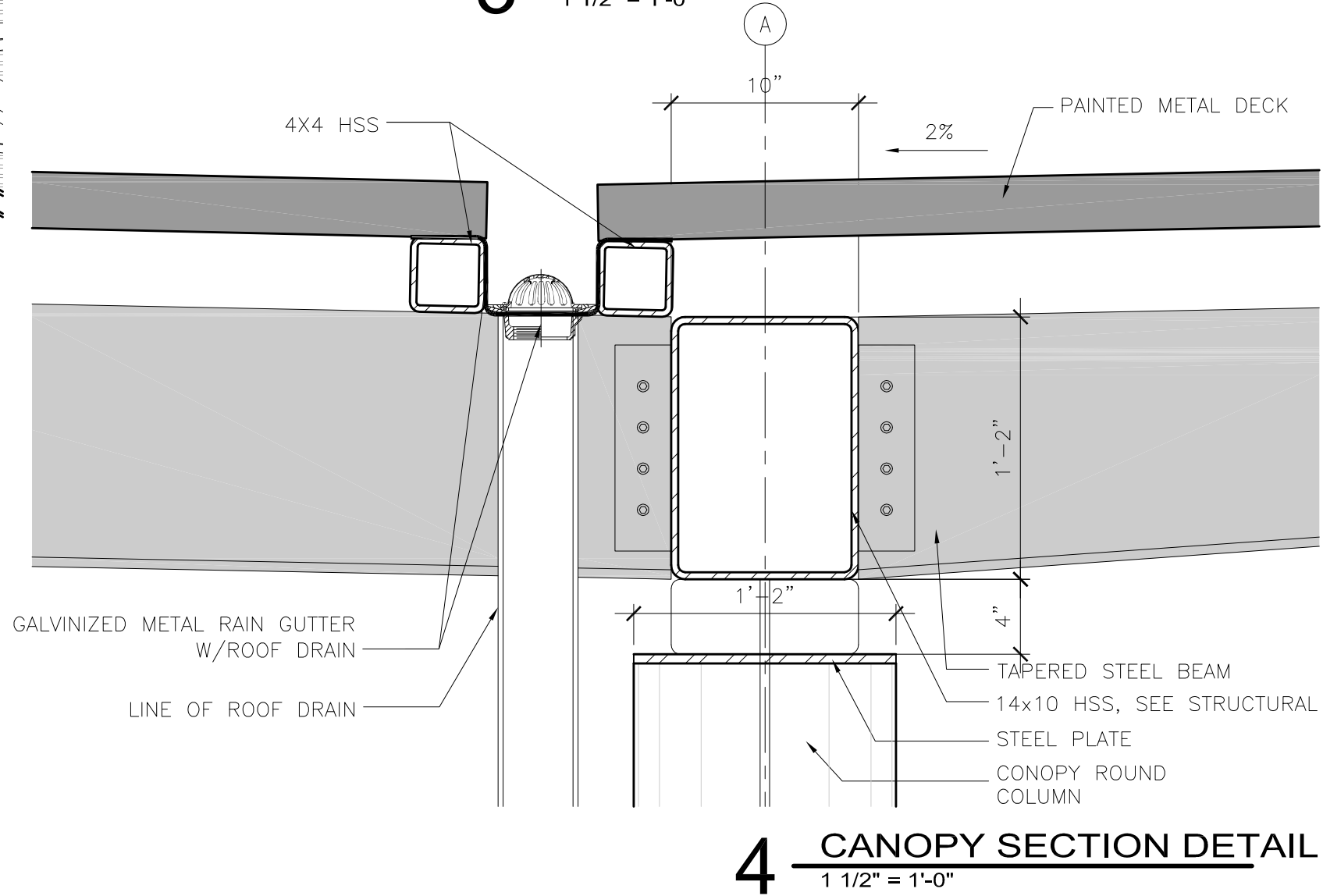
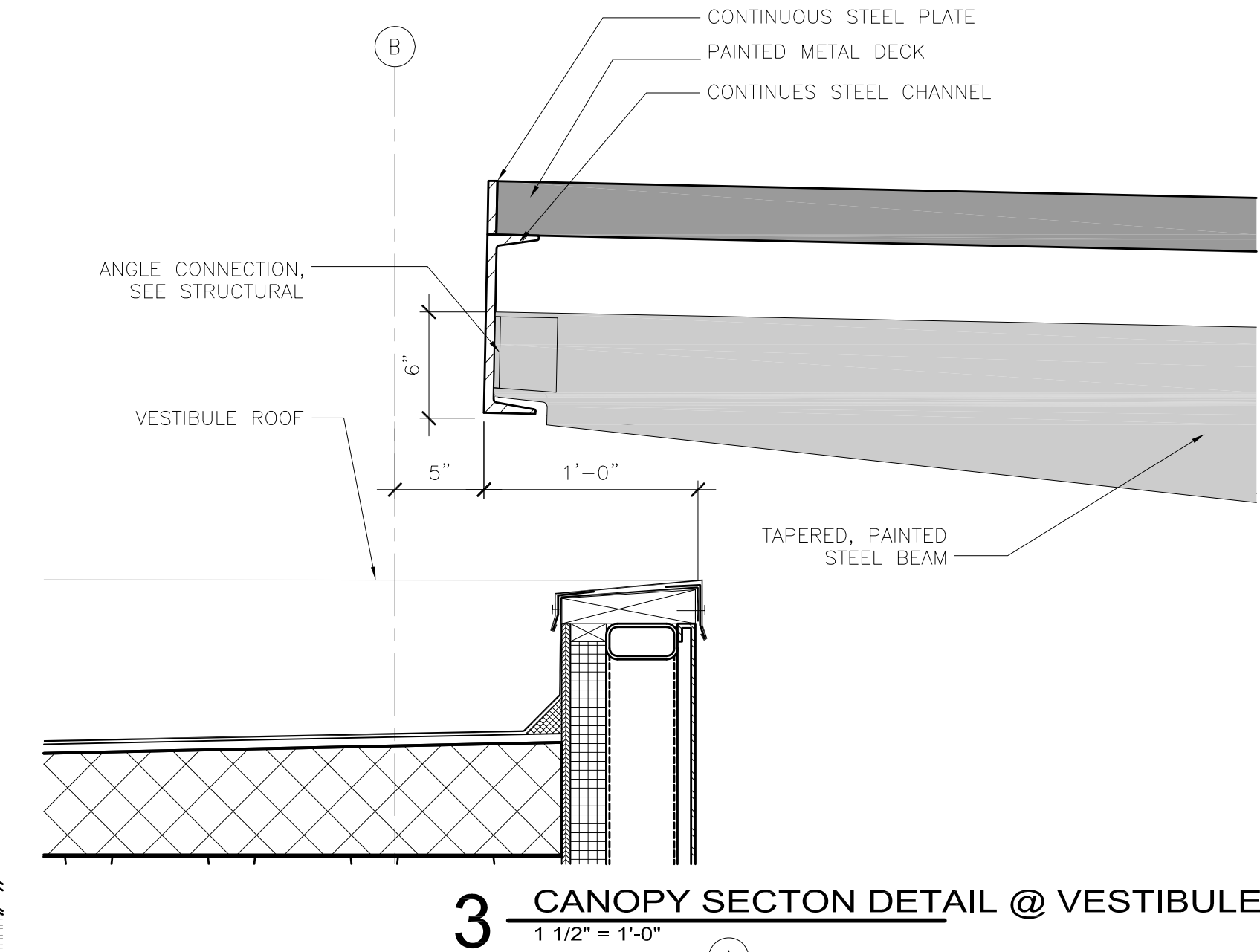
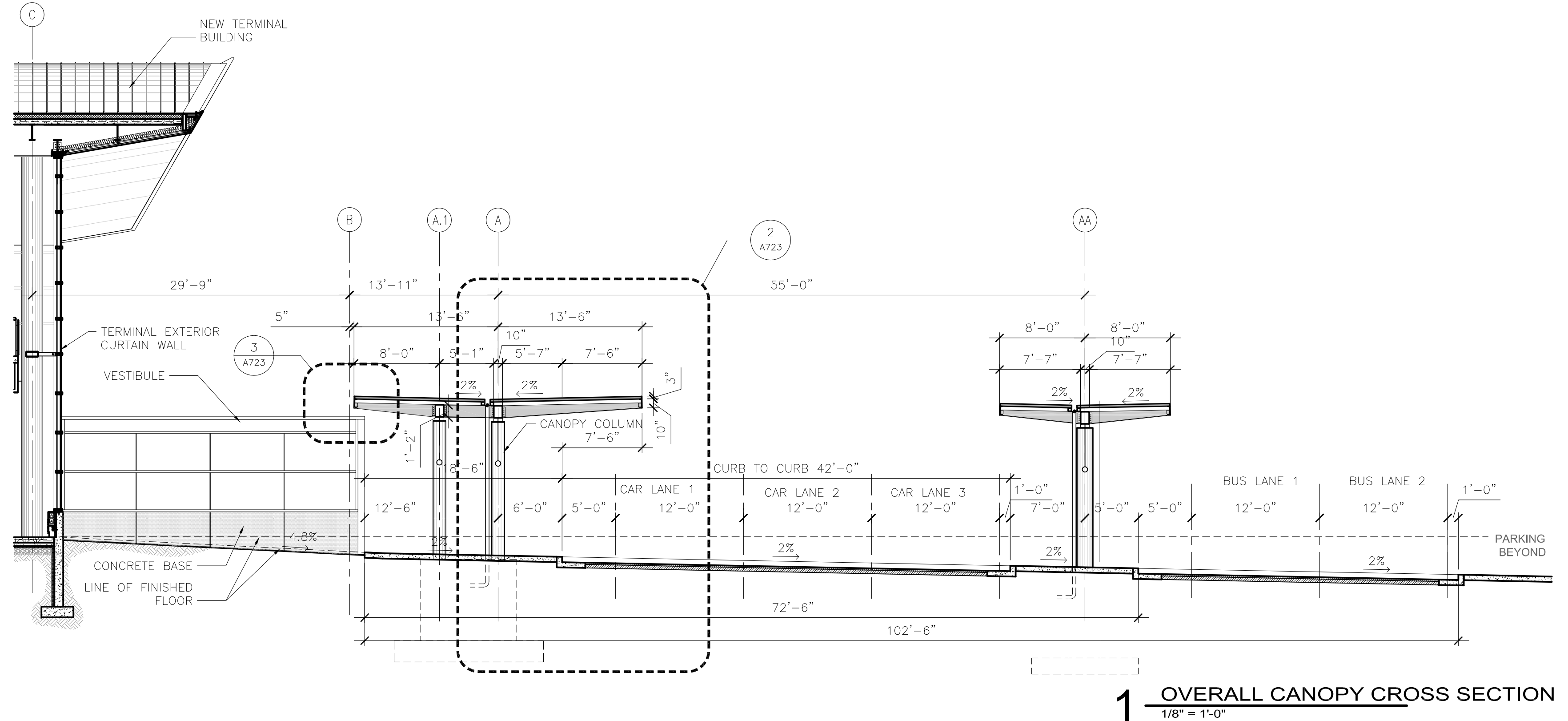
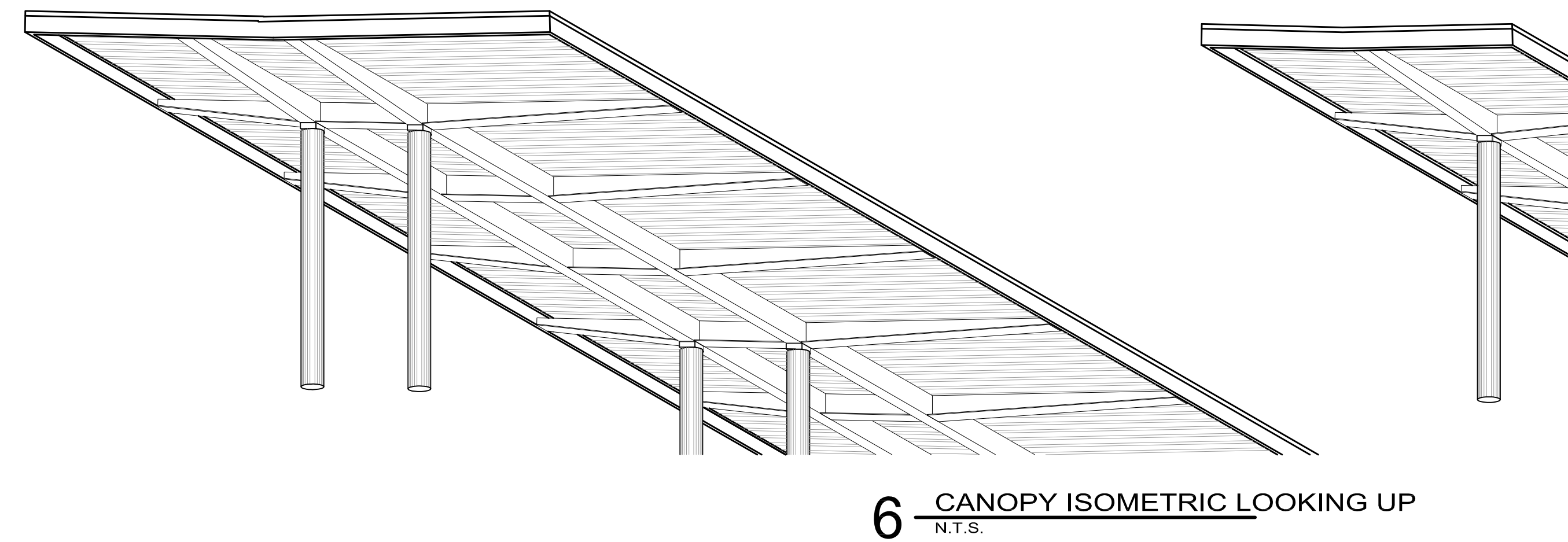
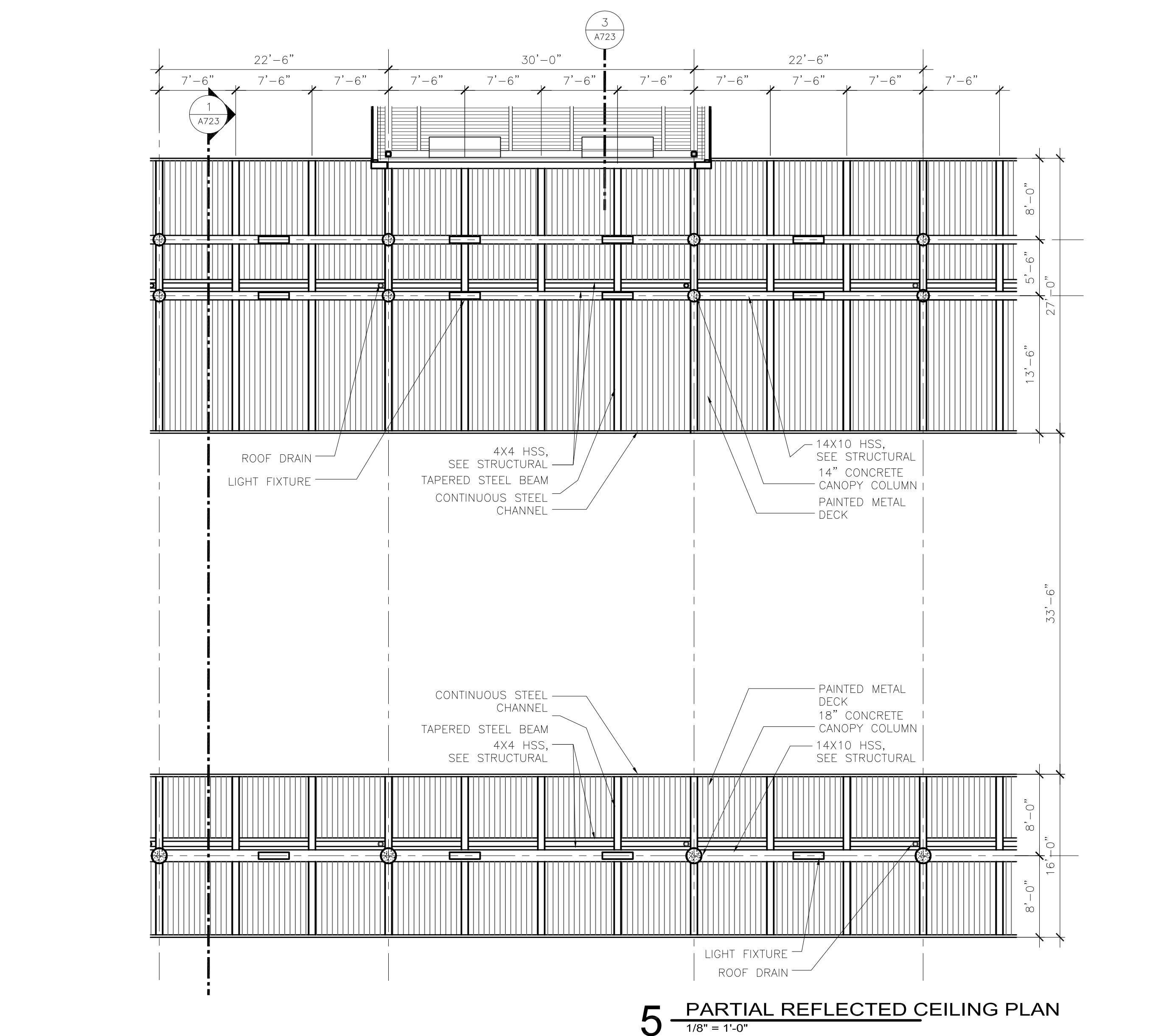


**4 EAST TUG RAMP ENCLOSURE- EAST ELEVATION**  
1/8" = 1'-0"  
WEST ELEVATION OF WEST TUG RAMP ENCLOSURE SIMILAR



**2 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND**  
1/8" = 1'-0"  
CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR





GENERAL NOTE:  
ALL STRUCTURE EXPOSED TO  
PUBLIC VIEW TO BE PAINTED WITH A  
HIGH PERFORMANCE COATING

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NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
REVIEWED BY: XX  
DRAWN BY: MK  
DESIGNED BY: TC

AEP PROJECT NUMBER  
**213-1882-091**  
XXX.DWG 10:00 12:00p  
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**SHEET TITLE**  
**EXTERIOR SYSTEM  
SHEET- CANOPY**

**SHEET NUMBER**  
**A723**

**90% NOT FOR  
CONSTRUCTION**



## SECOND FLOOR FINISH SCHEDULE

		FLOOR	WALLS								CEILING		DOOR COLOR	FRAME COLOR	WINDOW COVERING	REMARKS
ROOM #	ROOM NAME		NORTH		EAST		SOUTH		WEST							
			FINISH	BASE	FINISH	BASE	FINISH	BASE	FINISH	BASE	MATERIAL	HEIGHT				
201	PASSENGER WAITING	TER	DP/MTL	TER	GL	TER	GL	TER	GL	TER	CL-1					
202	CORRIDOR	TER	DP/MTL	TER	PT	TER	GL	TER	DP	TER	PT					
203	CORRIDOR	TER	PT	TER	PT	TER	PT	TER	PT	TER	PT					
204	TELE COM	SC-1	PT	-	PT	-	PT	-	PT	-	EX-1					
205	ELECTRICAL	SC-1	PT	-	PT	-	PT	-	PT	-	EX-1					
206	MEN	T	T	T	T/GT	T	T/GT	T	T	T	CL-4/PT					
207	WOMEN	T	T	T	T	T	T/GT	T	T/GT	T	CL-4/PT					
208	TSA CHECKPOINT	TER	GL	TER	GL/PT	TER	PT	TER	-	TER	CL-2/PT					
209	STORAGE	RF	PT	RB	PT	RB	PT	RB	PT	RB	PT					
210	REMOTE V	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3					
211	TSA	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3					
212	TSA	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3					
213	TSA	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3					
214	TSA QUEUE	TER	GL	TER	-	TER	-	TER	GL	TER	CL-2					
215	DEPLANING	TER	-	TER	GL	TER	-	TER	DP	TER	CL-2					
216	VENDING	TER	PT	TER	PT	TER	PT	TER	PT	TER	PT					
217	COMM	RF	PT	RB	PT	RB	PT	RB	PT	RB	EX-1					
219	CONCOURSE	-	GL	-	GL	-	GL/DP/MTL	-	GL	-	CL-2					
220	VENDING	TER	PT	TER	PT	TER	PT	TER	PT	TER	PT					
221	MEN	T	T	T	T/GT	T	T	T	T/GT	T	CL-4/PT					
222	WOMEN	T	T	T	T/GT	T	T	T	T/GT	T	CL-4/PT					
223	FAMILY	T	T	T	T	T	T	T	T	T	CL-4/PT					
224	SERVERY	-	-	-	-	-	-	-	-	-	-					
225	KITCHEN	-	-	-	-	-	-	-	-	-	-					
226	BAR	-	-	-	-	-	-	-	-	-	-					
227	MEN	T	T	T	T	T	T/GT	T	T/GT	T	CL-4/PT					
228	WOMEN	T	T	T	T/GT	T	T/GT	T	T	T	CL-4/PT					
229	CORRIDOR	RF	PT	RB	PT	RB	PT	RB	PT	RB	PT					
230	ELECTRICAL	RF	PT	RB	PT	RB	PT	RB	PT	RB	PT					
231	BOARDING	TER	GL/PT	TER	GL	TER	GL	TER	PT	TER	CL-2					
232	VESTIBULE	-	GL	-	GL	-	GL	-	GL	-	-					
233	CORRIDOR	TER	GL/PT	TER	GL/PT	TER	GL/PT	TER	GL/PT	TER	CL-2					
234	FBO OFFICE	RF	GL/PT	RB	PT	RB	PT	RB	PT	RB	CL-2					
235	WOMEN	T	T	T	T	T	T/GT	T	T	T	CL-4/PT					
236	MEN	T	T/GT	T	T	T	T	T	T	T	CL-4/PT					
237	INTERNATIONAL	TER	GL	TER	DP/MTL	TER	GL	TER	DP/MTL/GL	TER	CL-2					
238	MEN	T	T	T	T/GT	T	T	T	T	T	CL-4/PT					
239	WOMEN	T	T	T	T/GT	T	T	T	T	T	CL-4/PT					
240	COMP.	RF	PT	RB	PT	RB	PT	RB	PT	RB	PT					
241	OFFICE	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3					
245	ROVER	RF	GL/PT	RB	GL/PT	RB	GL/PT	RB	GL/PT	RB	CL-2					
247	FIXED BRIDGE	-	-	-	-	-	-	-	-	-	-					
248	FIXED BRIDGE	-	-	-	-	-	-	-	-	-	-					
249	STORAGE	RF	PT	RB	PT	RB	PT	RB	PT	RB	PT					
250	CONFERENCE	-	PT	-	PT	-	PT	-	PT	-	CL-3					
251	OFFICE	-	PT	-	PT	-	PT	-	PT	-	CL-3					
252	STORAGE	RF	PT	RB	PT	RB	PT	RB	PT	RB	PT					
253	WHL CHR	RF	PT	RB	PT	RB	PT	RB	PT	RB	PT					
290	STAIR	SC-1	PT	RB	PT	RB	PT	RB	PT	RB	EX-1					
291	STAIR	SC-1	PT	RB	PT	RB	PT	RB	PT	RB	EX-1					
292	STAIR	TER	DP/MTL	TER	DP/MTL	TER	DP/MTL	TER	DP/MTL	TER	CL-2					
293	JANITOR	SC-1	PT	RB	PT	RB	PT	RB	PT	RB	PT					
REMARKS																
1																
2																
3																
GENERAL NOTES																
1																
2																
3																

## THIRD FLOOR FINISH SCHEDULE

312	ROOM #	ROOM NAME	FLOOR FINISH	WALLS								CEILING		DOOR COLOR	FRAME COLOR	WINDOW COVERING	REMARKS
				NORTH		EAST		SOUTH		WEST							
				FINISH	BASE	FINISH	BASE	FINISH	BASE	FINISH	BASE	MATERIAL	HEIGHT				
301	WAITING	CPT-1	WC/PT	RB	WC/PT	RB	WC/PT	RB	WC/PT	RB	PT						
302	CORRIDOR	CPT-1	WC/PT	RB	WC/PT	RB	WC/PT	RB	WC/PT	RB	PT						
304	MECHANICAL ROOM	SC-1	PT	-	PT	-	PT	-	PT	-	EX-1						
305	STORAGE	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
306	CORRIDOR	CPT-1	PT	RB	PT	RB	PT	RB	PT	RB	PT						
307	TRAINING	CPT-1	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
308	WOMEN LOCKER	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
309	MEN LOCKER	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
310	BREAK	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
311	OFFICE	CPT-2	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
312	OFFICE	CPT-2	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
313	COMM/ELEC	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
314	JANITOR	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
315	MEN	T	T	T	T/GT	T	T/GT	T	T	T	CL-4/PT						
316	WOMEN	T	T	T	T	T	T/GT	T	T/GT	T	CL-4/PT						
317	CORRIDOR	CPT-1	WC/PT	RB	PT	RB	PT	RB	PT	RB	PT						
318	EMERG OPS	CPT-3/CPT-4	PT	RB	WC/PT	RB	WC/PT	RB	WC/PT	RB	CL-5/PT						
319	STORAGE	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
320	OPS CONFERENCE	CPT-3/CPT-4	PT	RB	WC/PT	RB	WC/PT	RB	WC/PT	RB	CL-5/PT						
321	RECEPTION	CPT-1	PT	RB	WC/PT	RB	WC/PT	RB	WC/PT	RB	PT						
322	BADGE	-	-	-	-	-	-	-	-	-	CL-3						
323	EXEC DIRECTOR	CPT-2	GL	RB	PT	RB	PT	RB	PT	RB	CL-3/PT						
324	OPS	CPT-2	GL	RB	PT	RB	PT	RB	PT	RB	CL-3/PT						
325	DIR.	CPT-2	GL	RB	PT	RB	PT	RB	PT	RB	CL-3/PT						
326	DIR.	CPT-2	GL	RB	PT	RB	PT	RB	PT	RB	CL-3/PT						
327	BREAK ROOM	RF	GL	RB	GL	RB	PT	RB	PT	RB	CL-3/PT						
328	OPEN OFFICE	CPT-2	PT	RB	PT	RB	PT	RB	PT	RB	PT						
331	COPY ROOM	RF	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
332	OFFICE	CPT-2	PT	RB	PT	RB	PT	RB	PT	RB	CL-3						
333	MECHANICAL ROOM	SC-1	PT	-	PT	-	PT	-	PT	-	EX-1						
334	ELECTRICAL	SC-1	PT	-	PT	-	PT	-	PT	-	EX-1						
335	CORRIDOR	-	PT	-	-	-	-	-	-	-	PT						
390	STAIRS	SC-1	PT	RB	PT	RB	PT	RB	PT	RB	PT						
391	STAIRS	SC-2	PT	RB	PT	RB	PT	RB	PT	RB	EX-2						
REMARKS																	
1																	
2																	
3																	
GENERAL NOTES																	
1																	
2																	
3																	



INTERIOR MATERIAL SCHEDULE						
CODE TAG	MATERIAL	MANUFACTURER	SERIES	COLOR	DIMENSIONS	REMARKS
MILLWORK						
PL-1	PLASTIC LAMINATE					
PL-2	PLASTIC LAMINATE					
PL-3	PLASTIC LAMINATE					
PL-4	PLASTIC LAMINATE					
QS-1	QUARTZ SURFACING					
QS-2	QUARTZ SURFACING					
SS-1	STAINLESS STEEL					
SSM-1	SOLID SURFACE					
SSM-2	SOLID SURFACE					
WD-1	MAPLE - FSC CERTIFIED					
WD-2	RECLAIMED DOUGLAS FIR					
WD-3	PAINTED-GRADE TRIM					

EQUIPMENT SCHEDULE						
MARK	ITEM	QTY	MANUFACTURER	MODEL	COLOR	DESCRIPTION
E-1						
E-2						
E-3						
E-4						
NOTES						

INTERIOR MATERIAL SCHEDULE						
CODE TAG	MATERIAL	MANUFACTURER	SERIES	COLOR	DIMENSIONS	REMARKS
FLOOR						
CPT-1	CARPET TILE					
CPT-2	BROADLOOM					
CPT-3	CARPET TILE					
CPT-4	CARPET TILE					
FT-1	FLAKE COATING SYSTEM					
FT-2	FLAKE COATING SYSTEM					
RF-1	RESILIENT SHEET FLOORING	MANNINGTON COMMERCIAL				
RF-2	RESILIENT SHEET FLOORING	MANNINGTON COMMERCIAL				
SC-1	SEALED CONCRETE - NO STAIN					
SC-2	SEALED CONCRETE - STAINED					
TER-1	TERRAZZO FLOORING					
TER-2	TERRAZZO FLOORING					
TER-3	TERRAZZO FLOORING					
TER-4	TERRAZZO FLOORING					
T-1	PORCELAIN TILE					
T-2	PORCELAIN TILE					
T-3	PORCELAIN TILE					
T-4	PORCELAIN TILE					
T-5	PORCELAIN TILE					
T-6	PORCELAIN TILE					
T-7	PORCELAIN TILE					
VT-1	BIO-BASED FLOOR TILE					
VT-2	BIO-BASED FLOOR TILE					
VT-3	BIO-BASED FLOOR TILE					
BASE						
RB-1	RUBBER BASE					
RB-2	RUBBER BASE					
WALLS						
DP-1	DECORATIVE PANELS					
DP-2	DECORATIVE PANELS					
DP-3	DECORATIVE PANELS					
FRP-1	FIBERGLASS REINFORCED PANEL					
G-1	LAM. CUSTOM GLASS W/ FRITTED INNER LAYER					
G-2	LAM. DECORATIVE GLASS W/ ETCHED PATTERN					
G-3	MIRRORED GLASS					
GT-1	GLASS MOSAIC TILE					
GT-2	GLASS MOSAIC TILE					
MTL-1	METAL WALL PANELS					
MTL-2	METAL WALL PANELS					
PT-1	PAINT					
PT-2	PAINT					
PT-3	PAINT					
PT-4	PAINT					
PT-5	PAINT					
PT-6	PAINT					
PT-7	PAINT					
PT-8	PAINT					
PT-9	PAINT					
PT-10	PAINT					
ST-1	STONE TILE					
ST-2	STONE TILE					
WC-1	WALL COVERING					
WC-2	WALL COVERING					
WC-3	WALL COVERING					
WP-1	WALL PROTECTION - RIGID SHEET VINYL	ACROVYN				
CEILING						
CL-1	SUSPENDED LINEAR METAL CEILING					
CL-2	WOOD GRILLE CEILING SYSTEM					
CL-3	MINERAL FIBER CEILING TILE					
CL-4	WATERPROOF GYP BD					
CL-5	MINERAL FIBER CEILING TILE					
EX1	EXPOSED CEILING - UNFINISHED					
EX2	EXPOSED CEILING - PAINTED					

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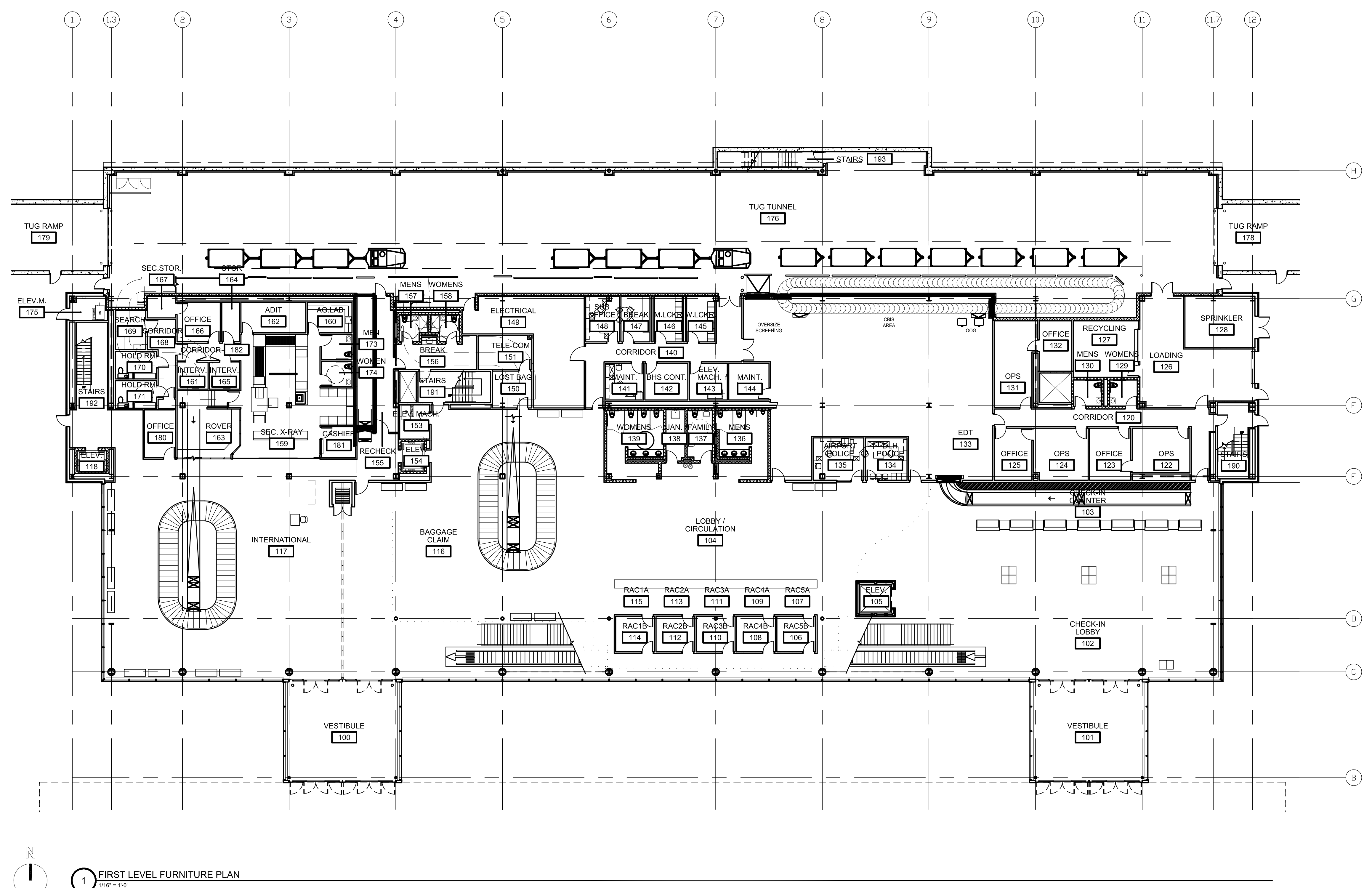


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SHEET TITLE  
**INTERIOR  
MATERIALS  
AND  
EQUIPMENT  
SCHEDULE**  
  
SHEET NUMBER  
**A802**  
  
90% NOT FOR  
CONSTRUCTION






1 FIRST FLOOR FURNITURE PLAN  
1/16" = 1'-0"



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SEAL

REVISIONS

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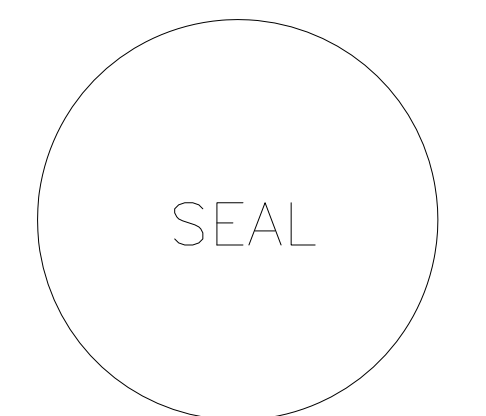
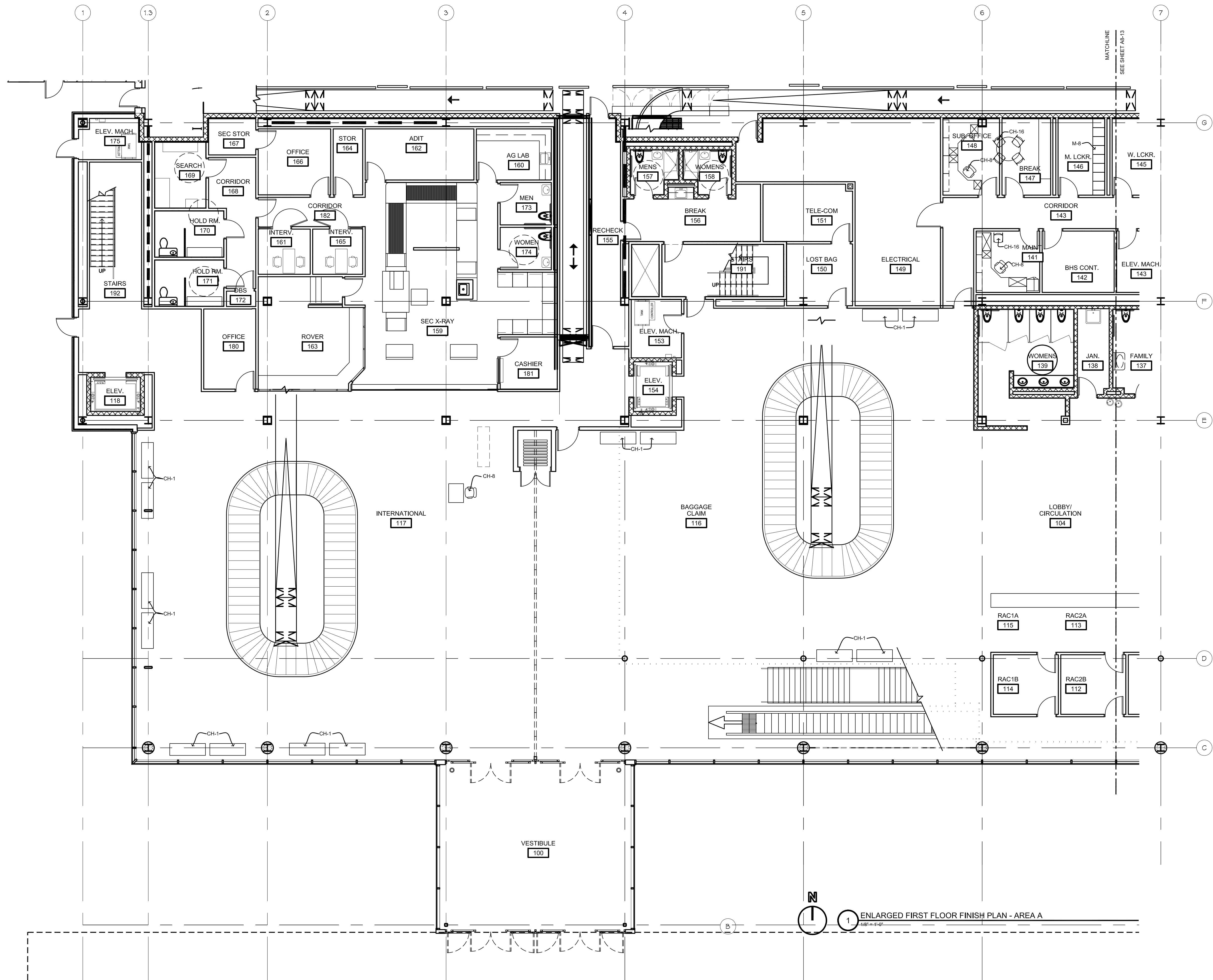
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SHEET TITLE  
**FIRST FLOOR  
FURNITURE PLAN**

SHEET NUMBER  
**A811**

90% NOT FOR  
CONSTRUCTION





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DESIGNED BY: **EB**

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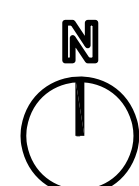
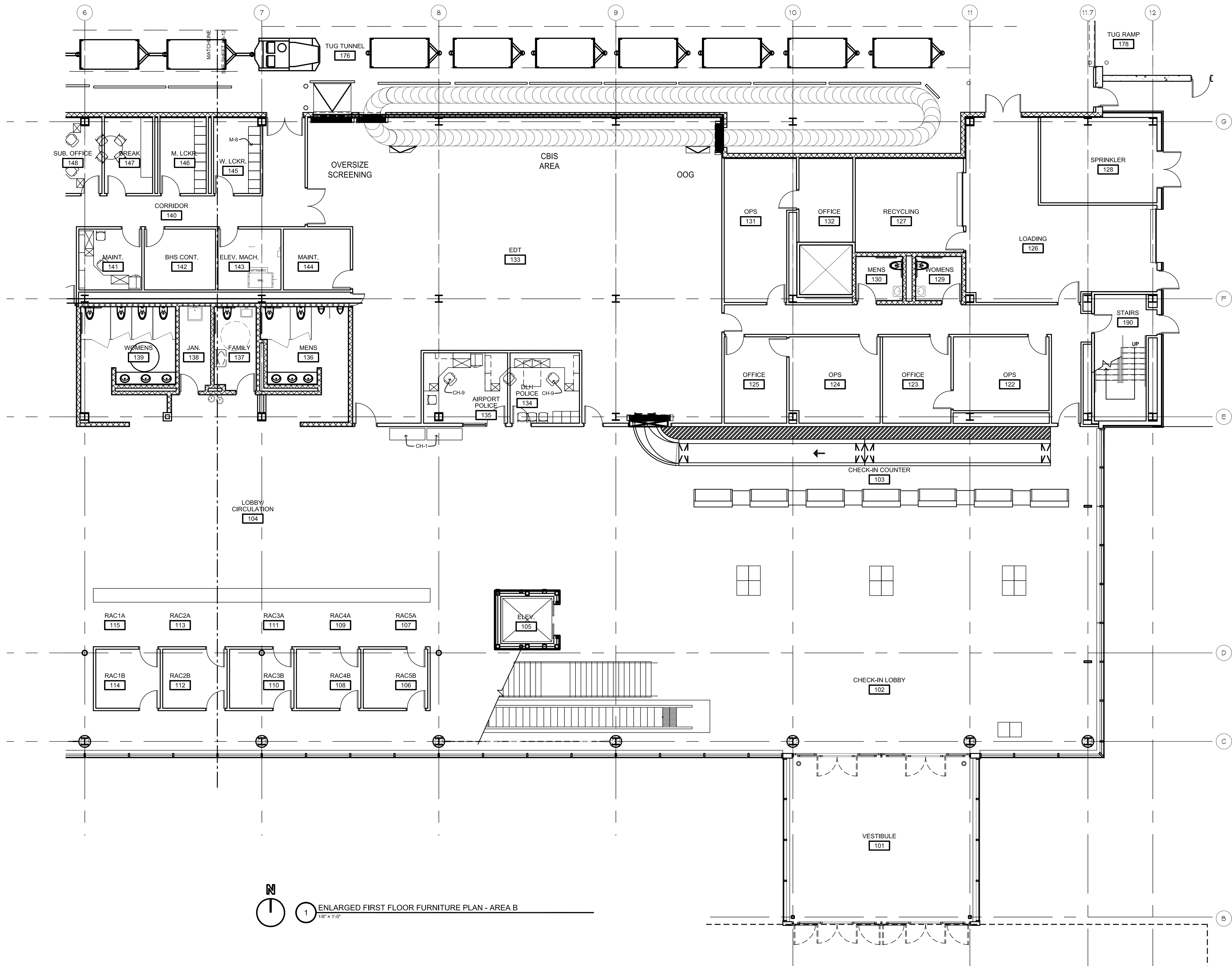
SHEET TITLE

**FIRST FLOOR  
FURNITURE PLAN  
AREA A**

SHEET NUMBER  
**A812**

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CONSTRUCTION





1 ENLARGED FIRST FLOOR FURNITURE PLAN - AREA B  
1/8" = 1'-0"



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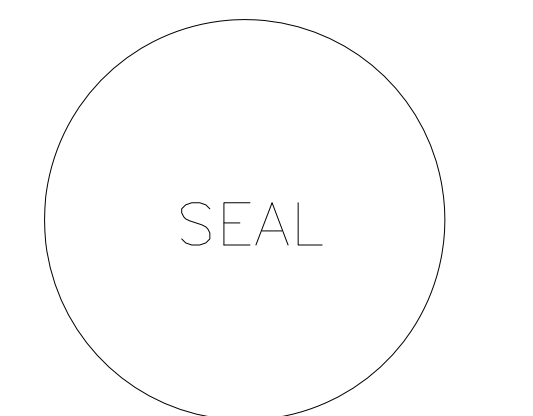
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Structural Engineers:  
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REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY: **EB**  
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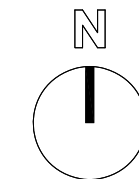
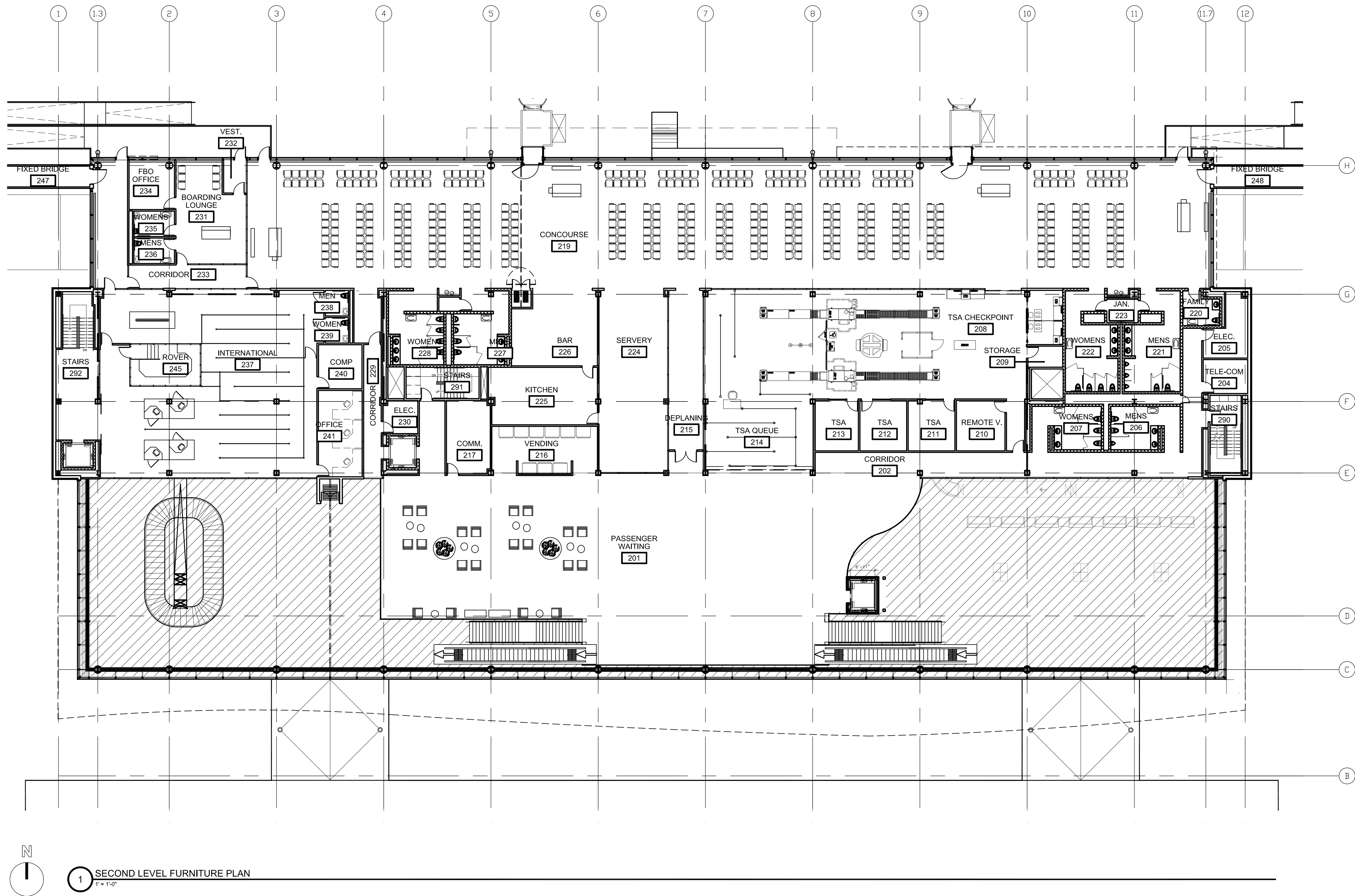
FIRST FLOOR  
FURNITURE PLAN  
AREA B

SHEET NUMBER

A813

90% NOT FOR  
CONSTRUCTION





1 SECOND LEVEL FURNITURE PLAN  
1" = 1'-0"



REVISIONS

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SHEET TITLE

**SECOND FLOOR  
FURNITURE PLAN**

SHEET NUMBER  
**A814**

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M/E/P/FP Engineers:

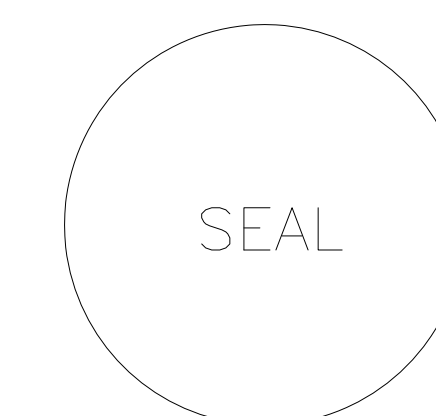
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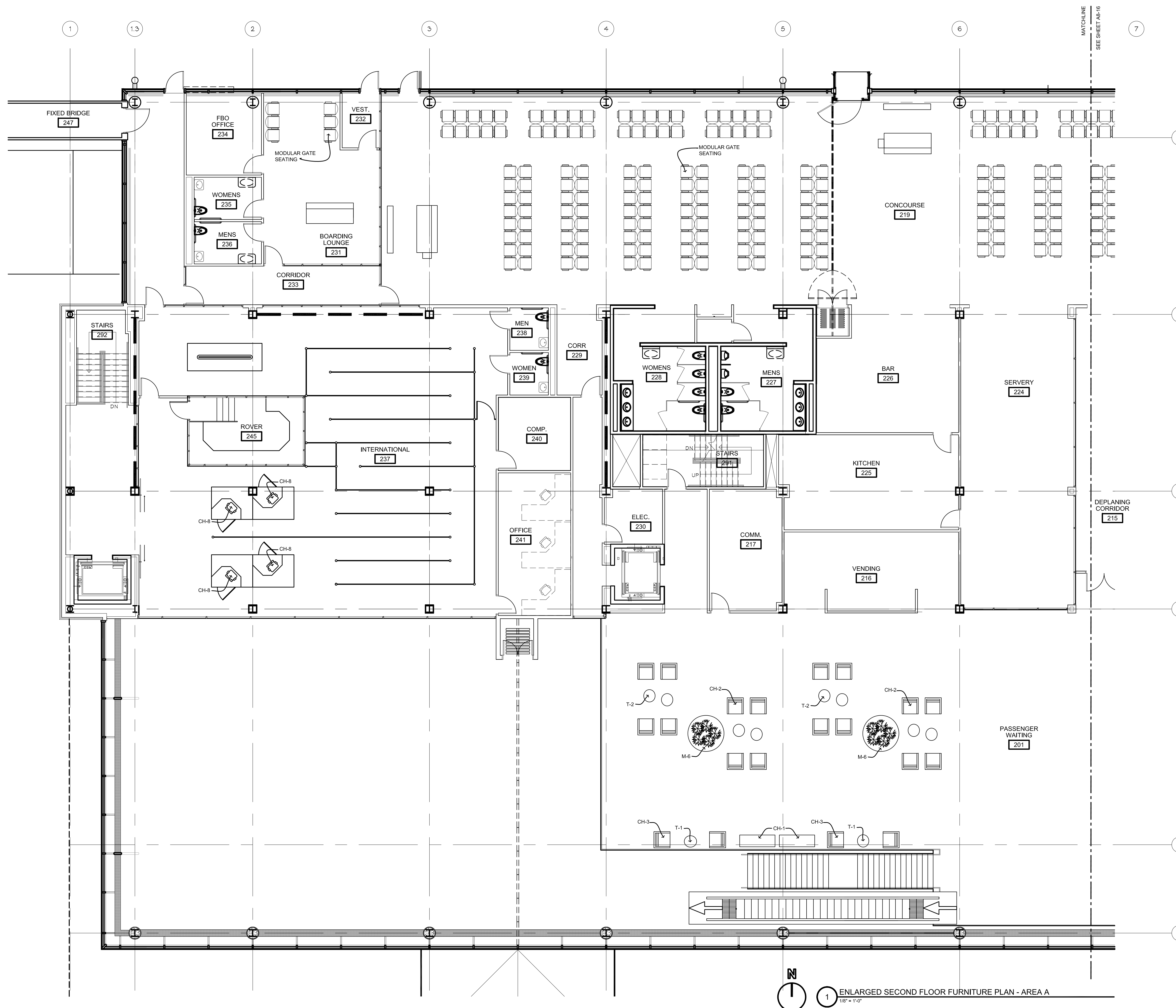
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SECOND FLOOR  
FURNITURE PLAN  
AREA A

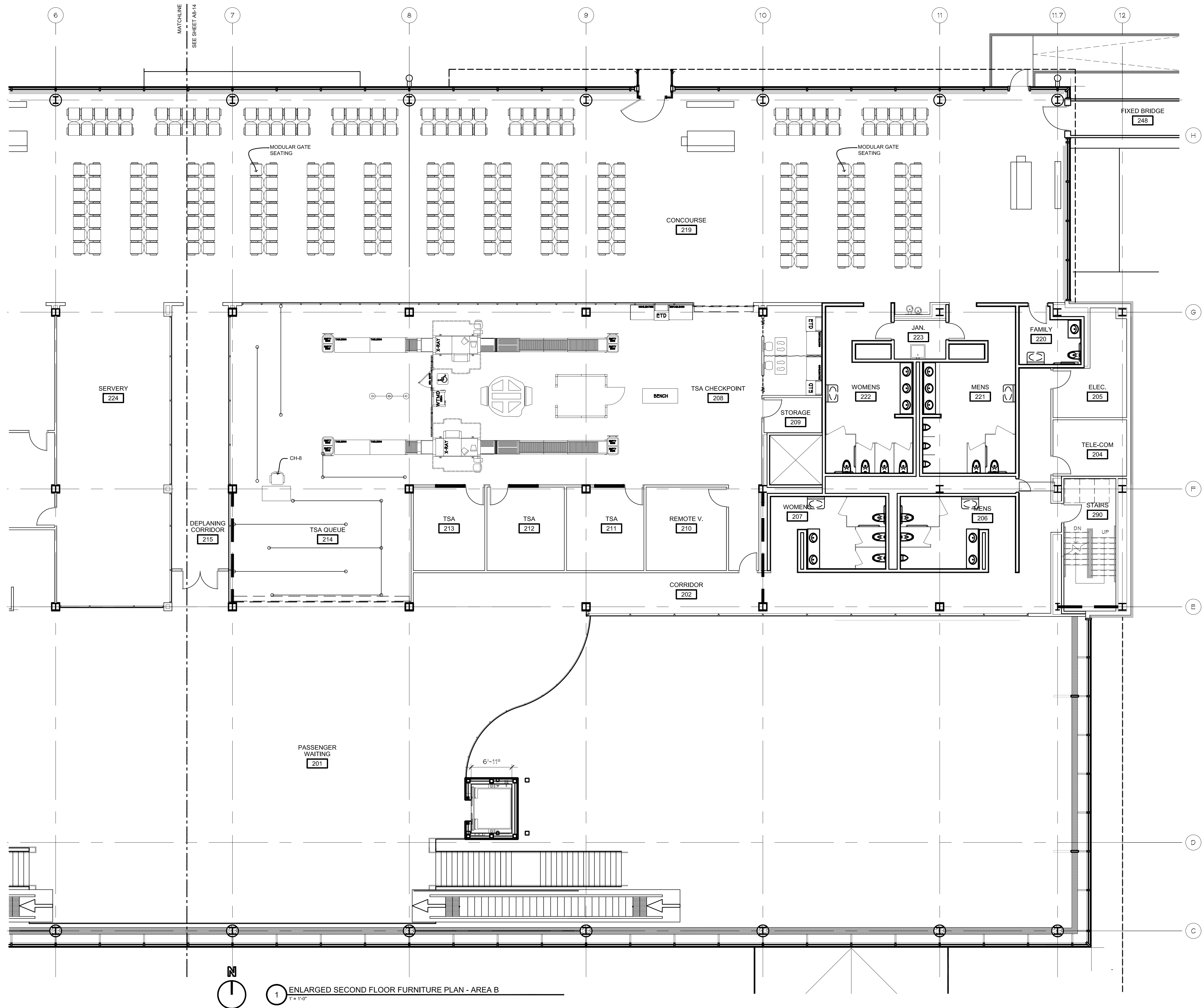
SHEET NUMBER

**A815**

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1 ENLARGED SECOND FLOOR FURNITURE PLAN - AREA B  
1" = 1'-0"



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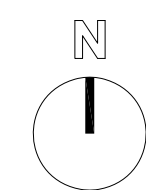
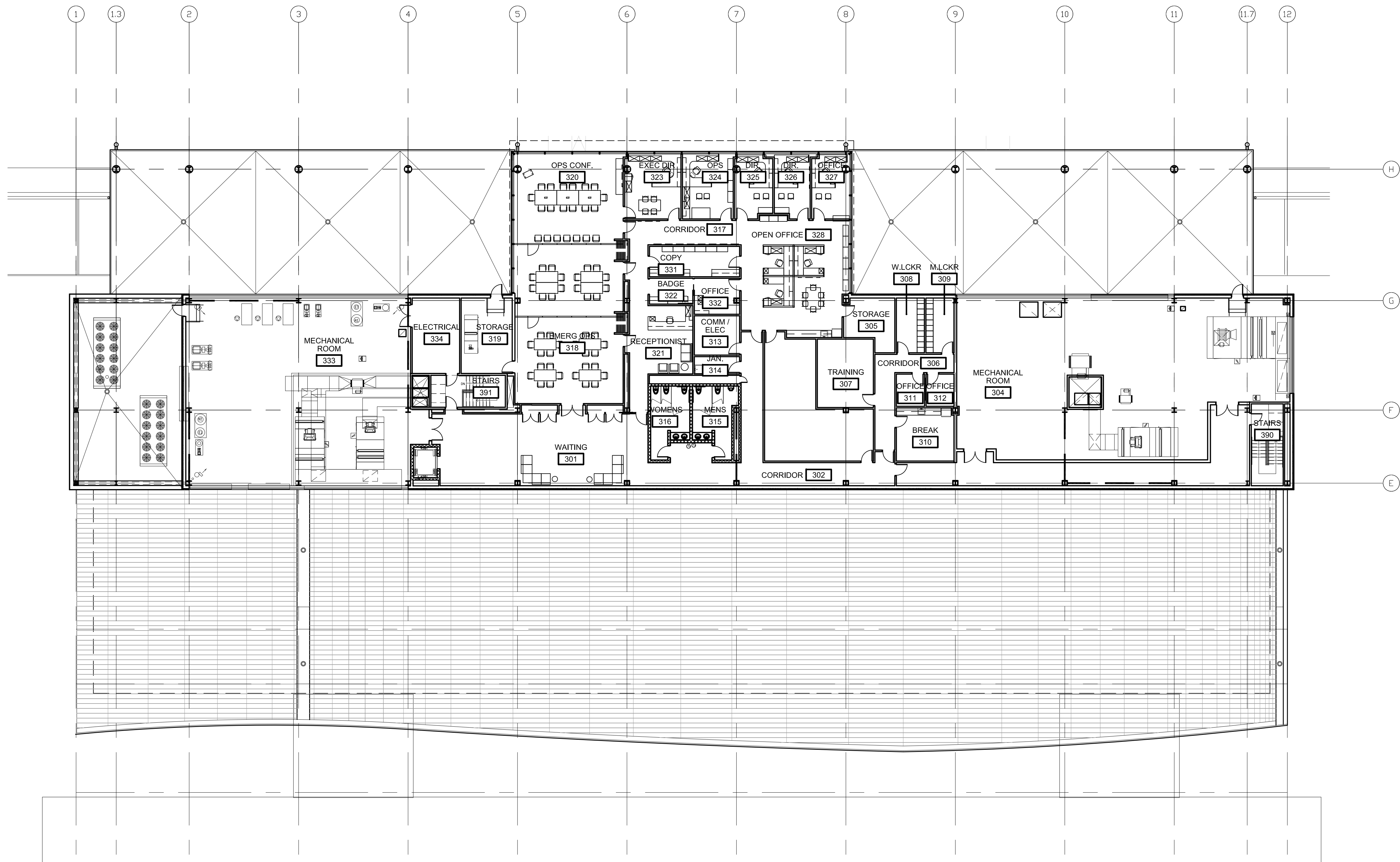
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SHEET TITLE  
**SECOND FLOOR  
FURNITURE PLAN  
AREA B**

SHEET NUMBER  
**A816**

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1 THIRD LEVEL FURNITURE PLAN  
1/16" = 1'-0"



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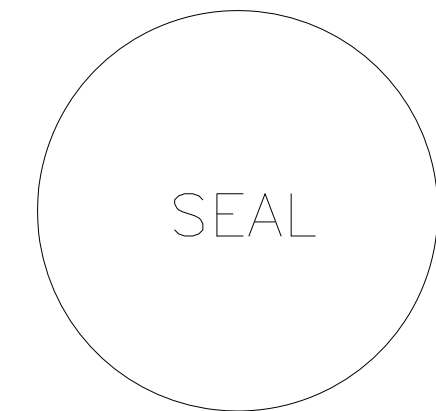
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SHEET TITLE

THIRD FLOOR  
FURNITURE PLAN

SHEET NUMBER

A817

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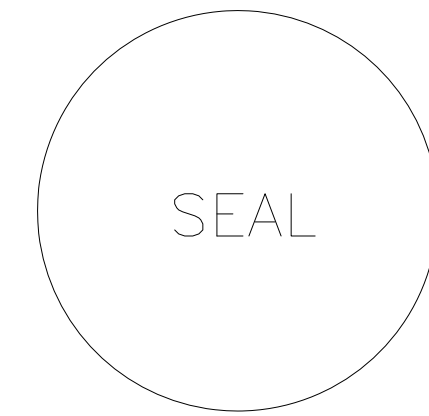
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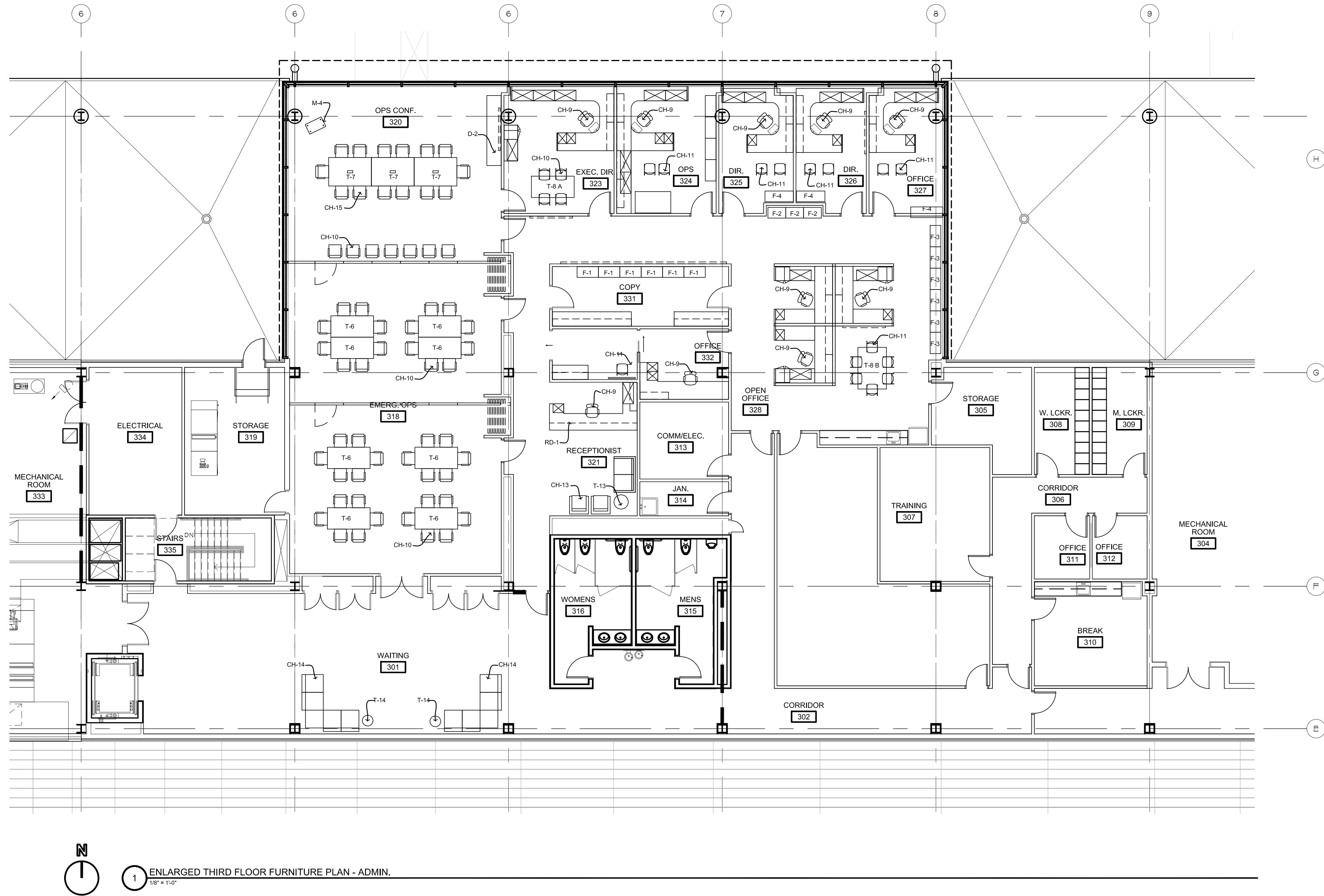
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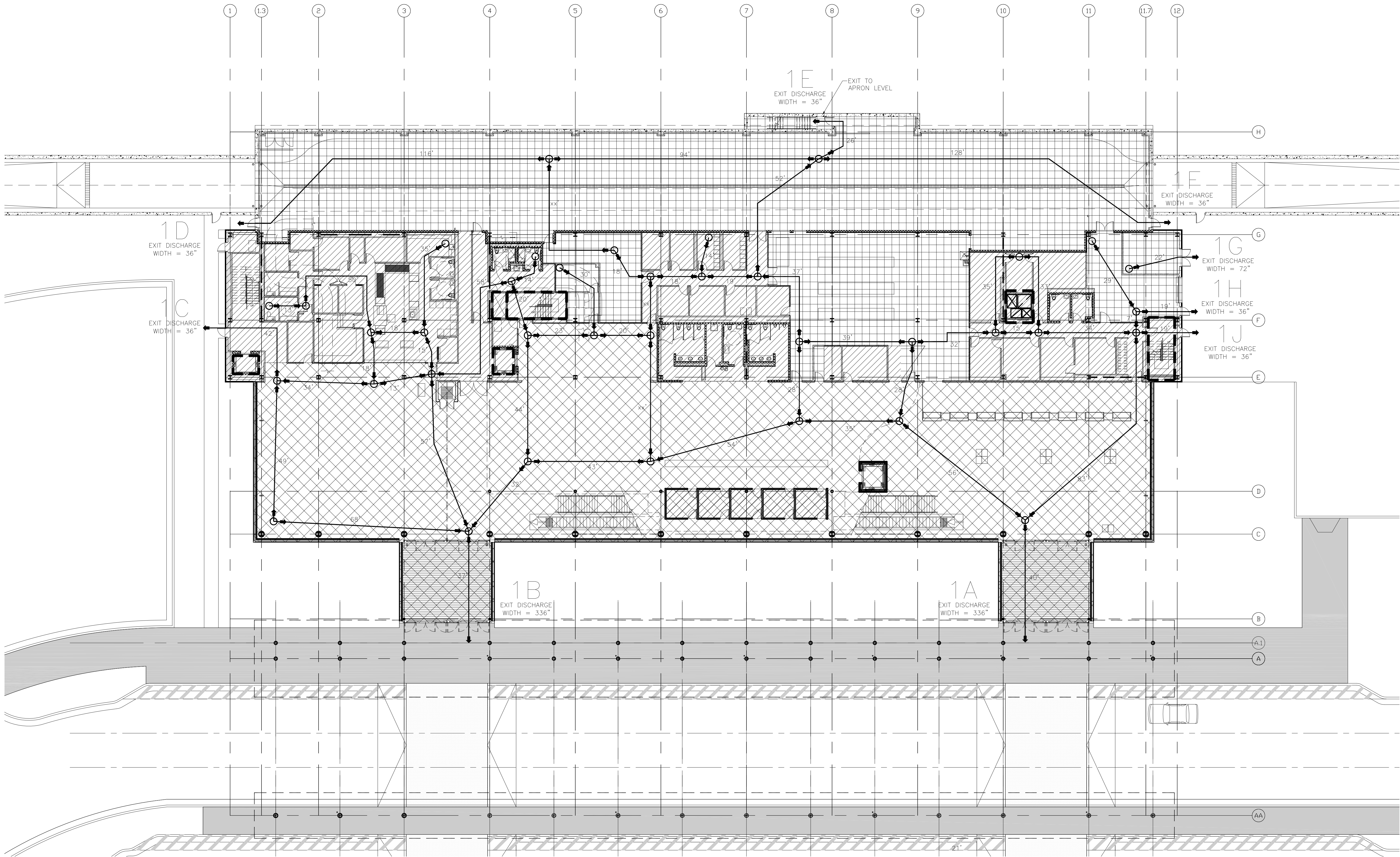
THIRD FLOOR  
FURNITURE PLAN  
ADMIN.

SHEET NUMBER  
**A818**

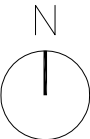
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CONSTRUCTION







**1 LIFE SAFETY PLAN**  
1/16" = 1'-0"



FIRE RATING & TRAVEL DISTANCE LEGEND	
1 HR Fire Rating	—
Start Point of Travel to Exit	○
Travel Distance to Exit	XX'
Fire Extinguisher	⊕
Eye Wash Station	⊕
OCCUPANCY AREAS LEGEND	
S2 Occupancy	
A3 Occupancy	
B Occupancy	

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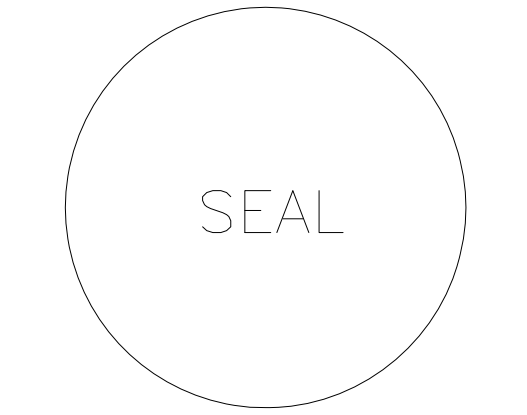
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NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10  
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DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

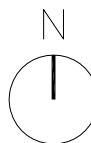
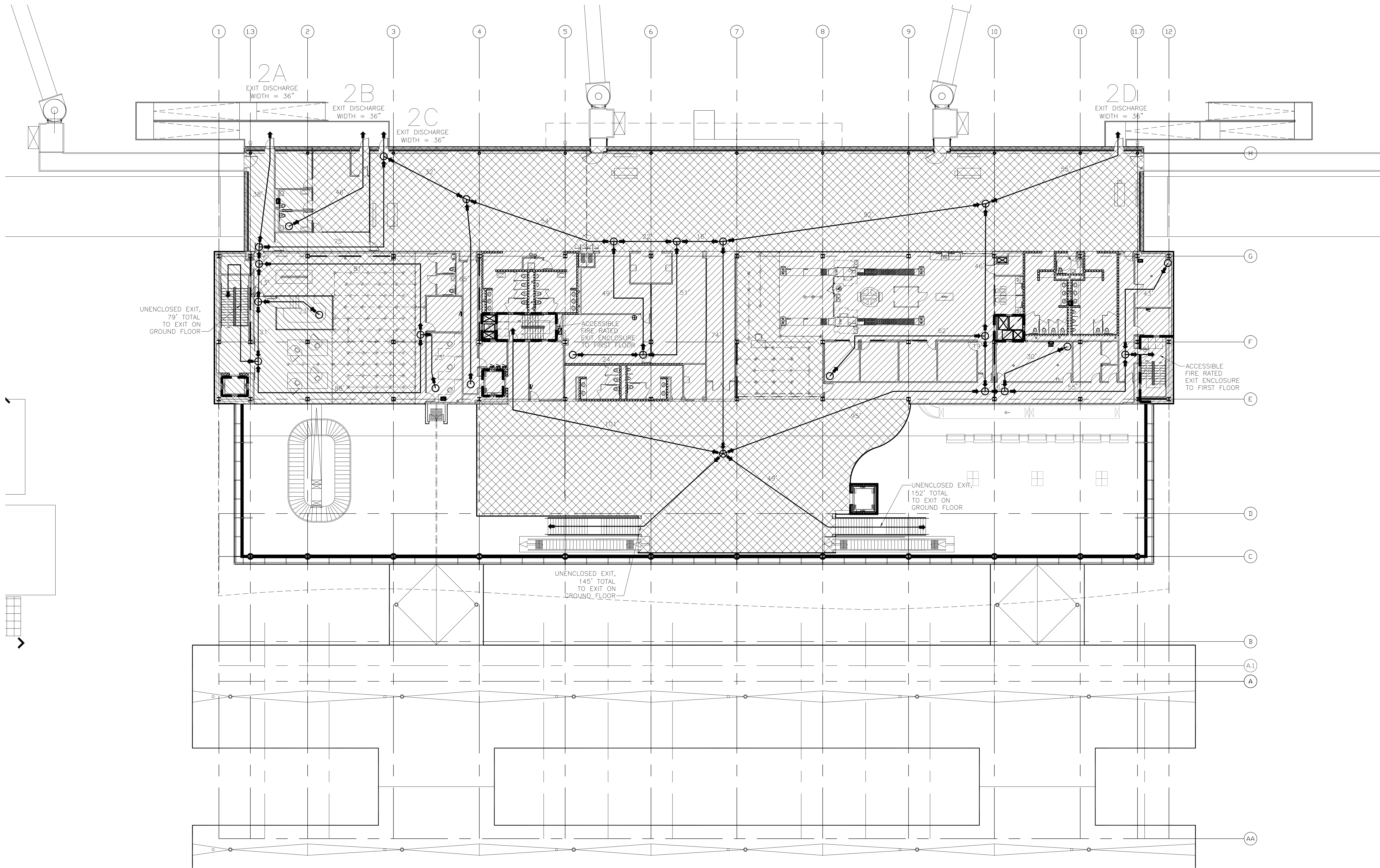
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SHEET TITLE  
**FIRST FLOOR  
LIFE SAFETY  
PLAN**

SHEET NUMBER  
**LS101**

**90% NOT FOR  
CONSTRUCTION**





1 LIFE SAFETY PLAN  
1/16" = 1'-0"

FIRE RATING & TRAVEL DISTANCE LEGEND	
1 HR Fire Rating	—
Start Point of Travel to Exit	○
Travel Distance to Exit	XX'
Fire Extinguisher	⊕
Eye Wash Station	⊕
OCCUPANCY AREAS LEGEND	
B Occupancy	
A3 Occupancy	

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SHEET TITLE  
**SECOND FLOOR  
LIFE SAFETY  
PLAN**

SHEET NUMBER  
**LS102**

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## NEW TERMINAL DESIGN

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DATE ISSUED: 04-12-10

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DESIGNED BY: CWB

AEP PROJECT NUMBER

213-1882-091

SHEET TITLE

# OVERALL FIRST LEVEL FLOOR PLAN

SHEET NUMBER

**S101**

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CONSTRUCTION**



1 OVERALL FOUNDATION PLAN  
1/16" = 1'-0"









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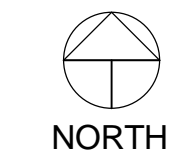
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SHEET TITLE

**OVERALL  
ROOF LEVEL  
PLAN**

SHEET NUMBER  
**S104**

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1 OVERALL ROOF PLAN  
1/16" = 1'-0"





## CONSULTANTS

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AEP PROJECT NUMBER

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SHEET TITLE

**FOUNDATION  
PLAN - AREA A**

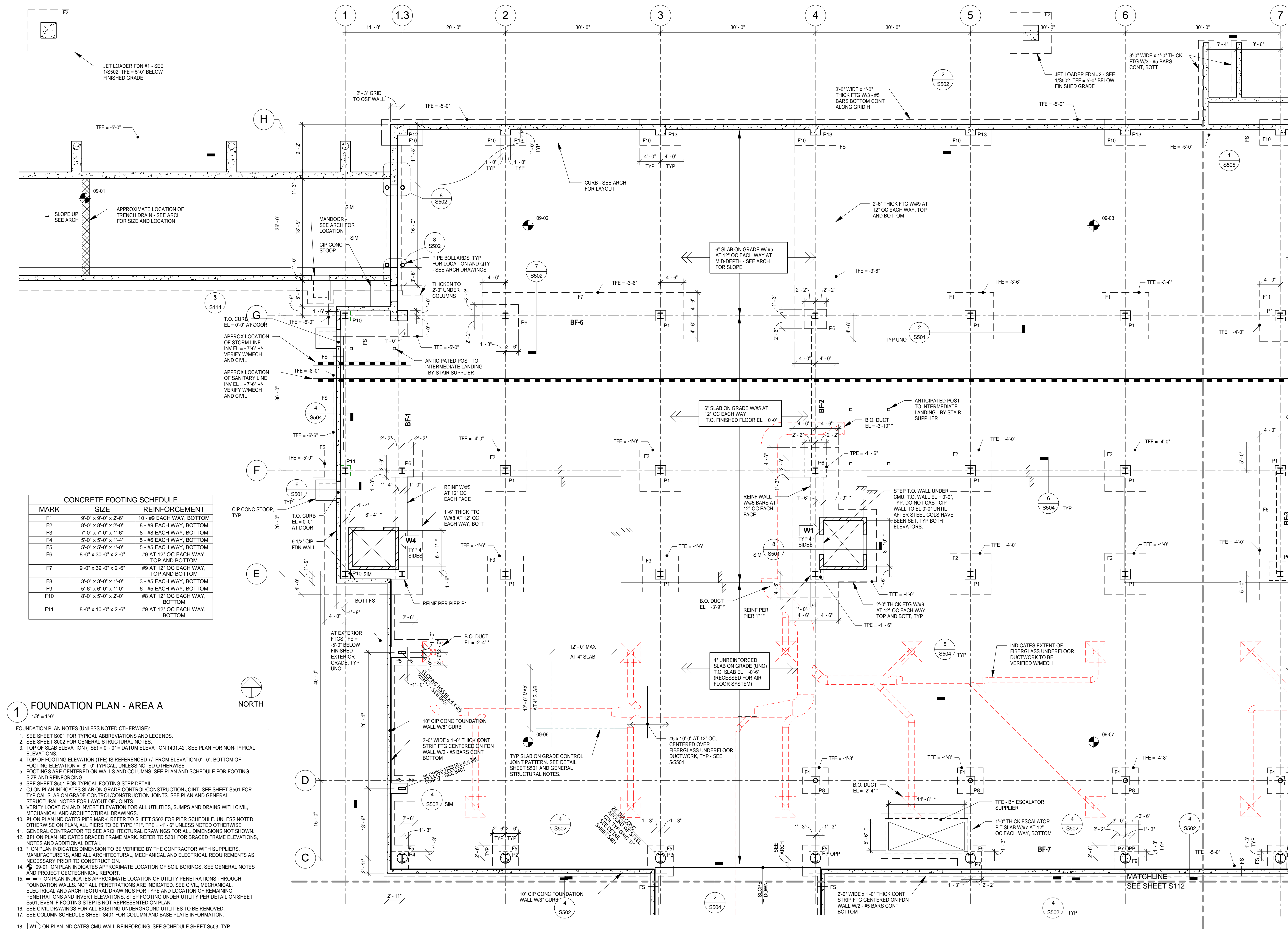
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SHEET NUMBER

**S110**

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FOUNDATION PLAN NOTES (UNLESS NOTED OTHERWISE):

1. SEE SHEET S501 FOR TYPICAL ABBREVIATIONS AND LEGENDS.
2. SEE SHEET S502 FOR GENERAL STRUCTURAL NOTES.
3. TOP OF SLAB ELEVATION (TSE) =  $0' - 0''$  = DATUM ELEVATION 1401.42. SEE PLAN FOR NON-TYPICAL ELEVATIONS.
4. TOP OF FOOTING ELEVATION (TFE) IS REFERENCED +/- FROM ELEVATION  $0' - 0''$ . BOTTOM OF FOOTING ELEVATION =  $-6' - 0''$  TYPICAL, UNLESS NOTED OTHERWISE.
5. FOOTINGS ARE CENTERED ON WALLS AND COLUMNS. SEE PLAN AND SCHEDULE FOR FOOTING SIZE AND REINFORCING.
6. SEE SHEET S501 FOR TYPICAL FOOTING STEP DETAIL.
7. ON PLAN INDICATES SLAB ON GRADE CONTROL/CONSTRUCTION JOINT. SEE SHEET S501 FOR TYPICAL SLAB ON GRADE CONTROL/CONSTRUCTION JOINTS. SEE PLAN AND GENERAL STRUCTURAL NOTES FOR LAYOUT OF JOINTS.
8. VERIFY LOCATION AND INVERT ELEVATION FOR ALL UTILITIES, SUMPS AND DRAINS WITH CIVIL, MECHANICAL AND ARCHITECTURAL DRAWINGS.
9. **P1** ON PLAN INDICATES PIER MARK. REFER TO SHEET S502 FOR PIER SCHEDULE. UNLESS NOTED OTHERWISE ON PLAN, ALL PIERS TO BE TYPE "P1". TPE =  $-1' - 6''$  UNLESS NOTED OTHERWISE.
10. GENERAL CONTRACTOR TO SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
11. **BF** ON PLAN INDICATES BRACED FRAME MARK. REFER TO S301 FOR BRACED FRAME ELEVATION DETAILS AND ADDITIONAL DETAIL.
12. \* ON PLAN INDICATES DIMENSION TO BE VERIFIED BY THE CONTRACTOR WITH SUPPLIERS, MANUFACTURERS, AND ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.
13. **4** ON PLAN INDICATES APPROXIMATE LOCATION OF SOIL BORINGS. SEE GENERAL NOTES AND PROJECT GEOTECHNICAL REPORT.
14. **■ ■ ■** ON PLAN INDICATES APPROXIMATE LOCATION OF UTILITY PENETRATIONS THROUGH FOUNDATION WALLS. NOT ALL PENETRATIONS ARE INDICATED. SEE CIVIL, MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF REMAINING PENETRATIONS AND INVERT ELEVATION. SEE FOOTING UNDER UTILITY PER DETAIL ON SHEET S501, EVEN IF FOOTINGS STEP IS NOT REPRESENTED ON PLAN.
15. SEE CIVIL DRAWINGS FOR ALL EXISTING UNDERGROUND UTILITIES TO BE REMOVED.
16. SEE COLUMN SCHEDULE SHEET S401 FOR COLUMN AND BASE PLATE INFORMATION.
17. **W1** ON PLAN INDICATES CMU WALL REINFORCING. SEE SCHEDULE SHEET S503, TYP.

[illegible]

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DESIGNED BY: CWB

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SHEET TITLE

**FOUNDATION**

## FOUNDATION

## PLAN - AREA

---

SHEET NUMBER  
0111

511

**00% NOT FOR**

**99% NOT FOR  
CONSTRUCTION**

## CONSTRUCTION





## CONSULTANTS

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[illegible]

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SHEET TITLE

**CANOPY  
FOUNDATION  
PLAN - AREA A**

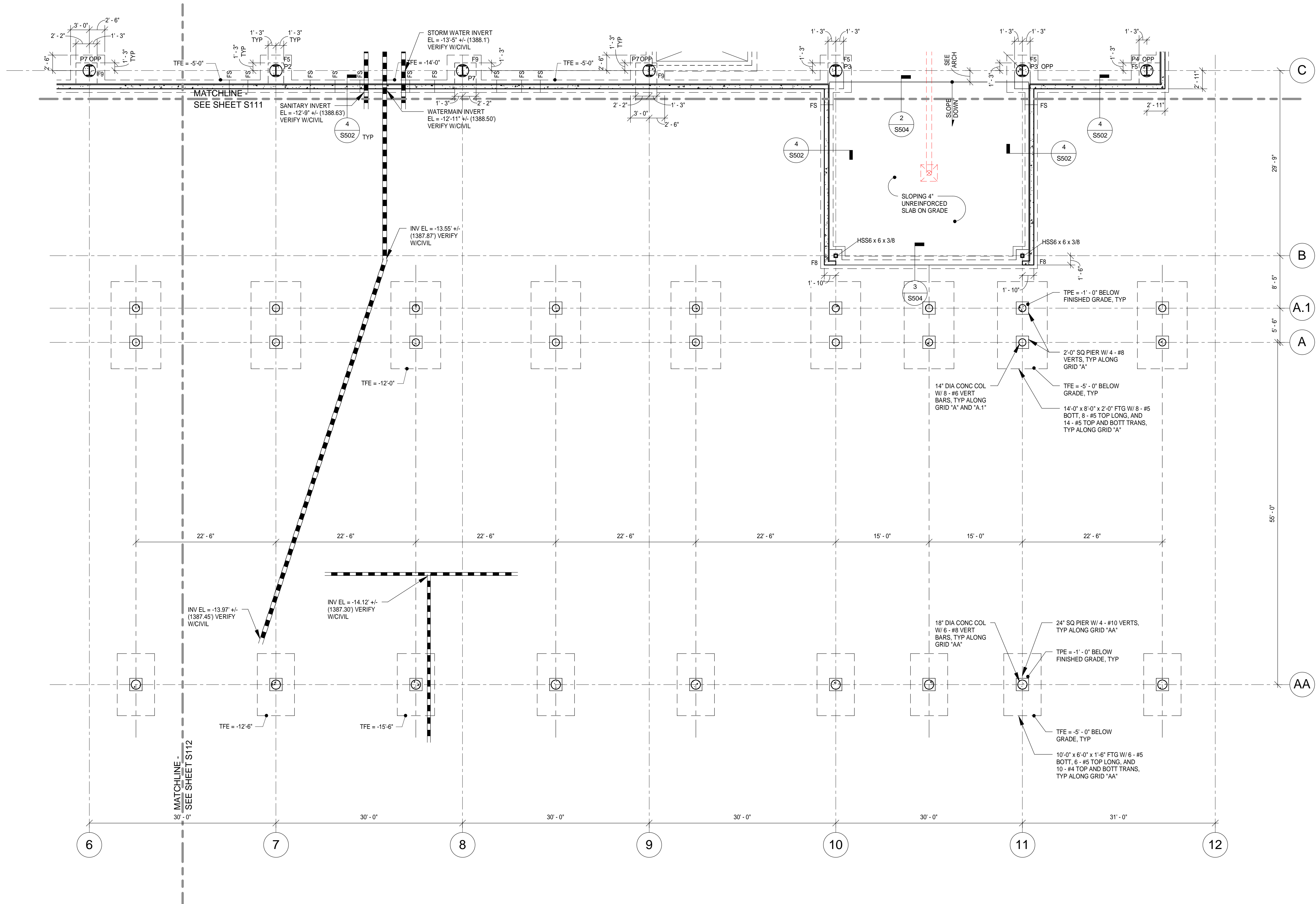
SHEET NUMBER  
**S112**

**90% NOT FOR CONSTRUCTION**



**NOTES:**  
1. REFER TO S110 FOR TYPICAL PLAN NOTES.





1 CANOPY FOUNDATION PLAN - AREA B

$$1/8^{\circ} = 1'-0''$$

**NOTES:**  
1. REFER TO S110 FOR TYPICAL PLAN NOTES

## REVISIONS

[illegible]

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SHEET TITLE

# CANOPY FOUNDATION PLAN - AREA B

SHEET NUMBER

# S113

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## REVISIONS

[illegible]

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AEP PROJECT NUMBER

213-1882-09

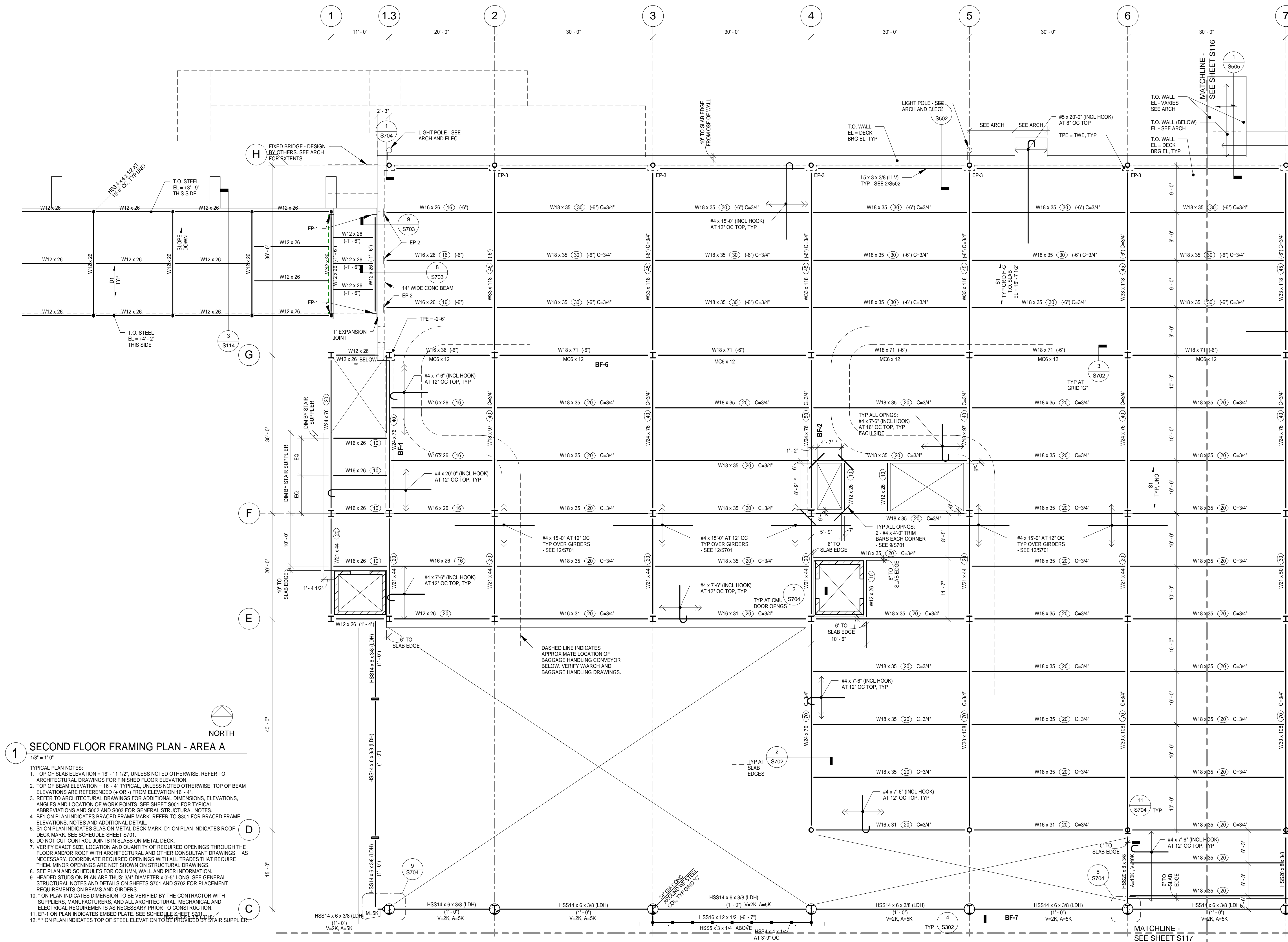
SHEET TITLE

## SECOND LEVEL FRAMING PLAN - AREA A

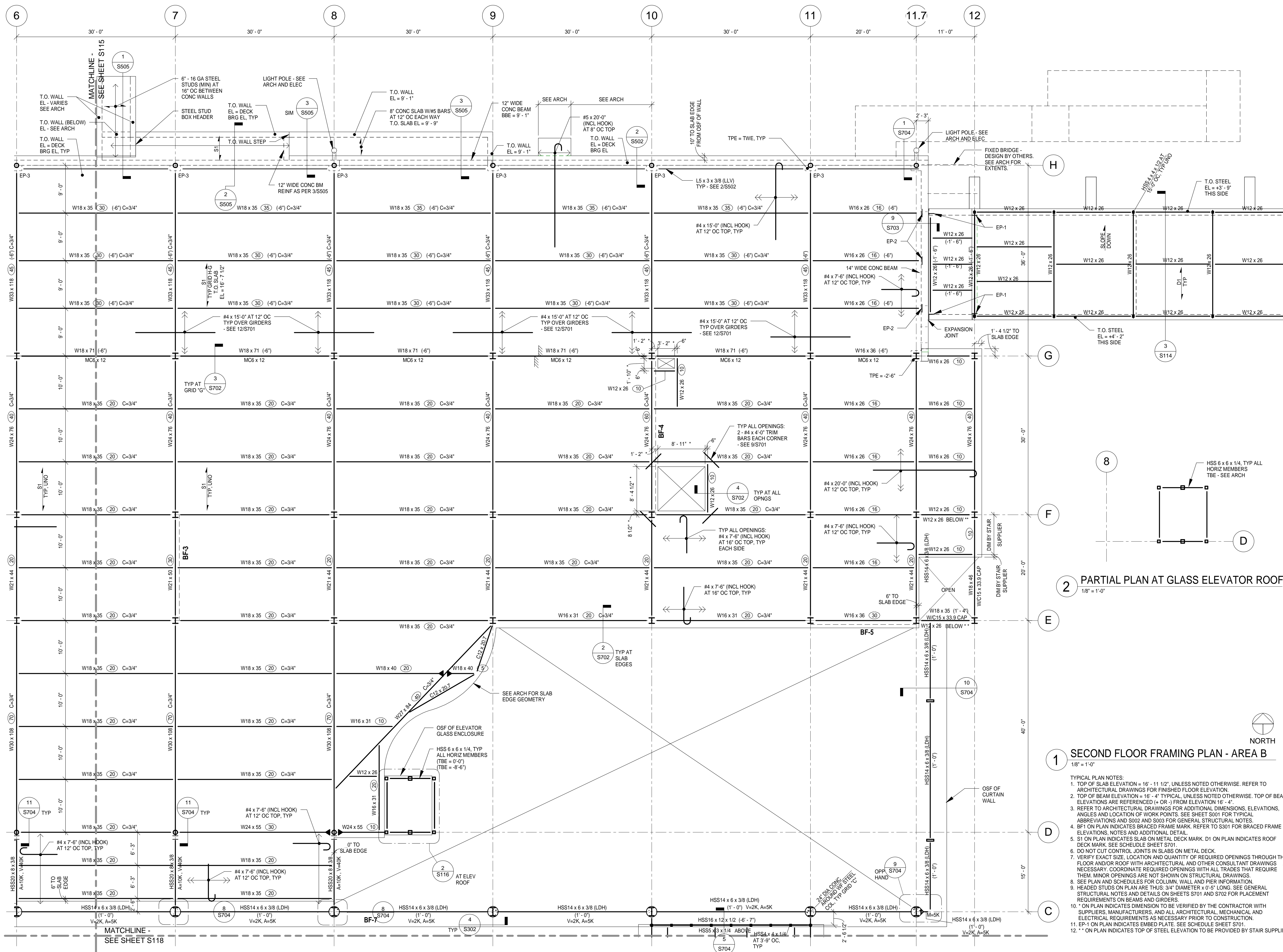
SHEET NUMBER

**S115**

**90% NOT FOR CONSTRUCTION**







2 PARTIAL PLAN AT GLASS ELEVATOR ROOF  
1/8" = 1'-0"

1 SECOND FLOOR FRAMING PLAN - AREA B

1. TOP OF SLAB ELEVATION =  $16' - 11 \frac{1}{2}''$ , UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATION.  
 2. TOP OF BEAM ELEVATION =  $16' - 4''$  TYPICAL, UNLESS NOTED OTHERWISE. TOP OF BEAM ELEVATIONS ARE REFERRED TO AS "FINISHED FLOOR ELEVATION".  
 3. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS, ANGLES AND LOCATION OF WORK POINTS. SEE SHEET S001 FOR TYPICAL ABBREVIATIONS AND S002 AND S003 FOR GENERAL STRUCTURAL NOTES.  
 4. IF AN "INDICATES" DIMENSIONED FROM FACE OF FRAM. REFER TO S001 FOR BRACED FRAME ELEVATIONS, NOTES AND ADDITIONAL DETAIL.  
 5. S1 ON PLAN INDICATES SLAB ON METAL DECK MARK. S1 ON PLAN INDICATES ROOF DECK MARK. SEE SCHEDULE SHEET S701.  
 6. DO NOT CUT CONTROL JOINTS INTO METAL DECK.  
 7. VERIFY EXACT SIZE, LOCATION AND QUANTITY OF REQUIRED OPENINGS THROUGH THE FLOOR AND/OR WALL WITH ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS AS NECESSARY. COORDINATE REQUIRED OPENINGS WITH ALL TRADES THAT REQUIRE SUCH OPENINGS.  
 8. SEE PLAN AND SCHEDULES FOR COLUMN, WALL AND PIER INFORMATION.  
 9. HEADED STUDS ON PLAN ARE THUS:  $3/4''$  DIAMETER  $\times$   $0' - 5''$  LONG. SEE GENERAL STRUCTURAL NOTES AND DETAILS ON SHEETS S701 AND S702 FOR PLACEMENT OF HEADED STUDS ON BEAMS.  
 10. \* ON PLAN INDICATES DIMENSION TO BE VERIFIED BY THE CONTRACTOR WITH SUPPLIERS, MANUFACTURERS, AND ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.  
 11. \*\* ON PLAN INDICATES EMBEDDED PLATE FOR STEEL SHULDER SHEET S701.  
 12. \*\* ON PLAN INDICATES TOP OF STEEL ELEVATION TO BE PROVIDED BY STAIR SUPPLIER.

[illegible]

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SHEET TITLE

**SECOND LEVEL  
FRAMING PLAN  
- AREA B**

SHEET NUMBER

**S116**

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**REVISIONS**

NO.	DESCRIPTION	DATE

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DESIGNED BY: CWB

AEP PROJECT NUMBER

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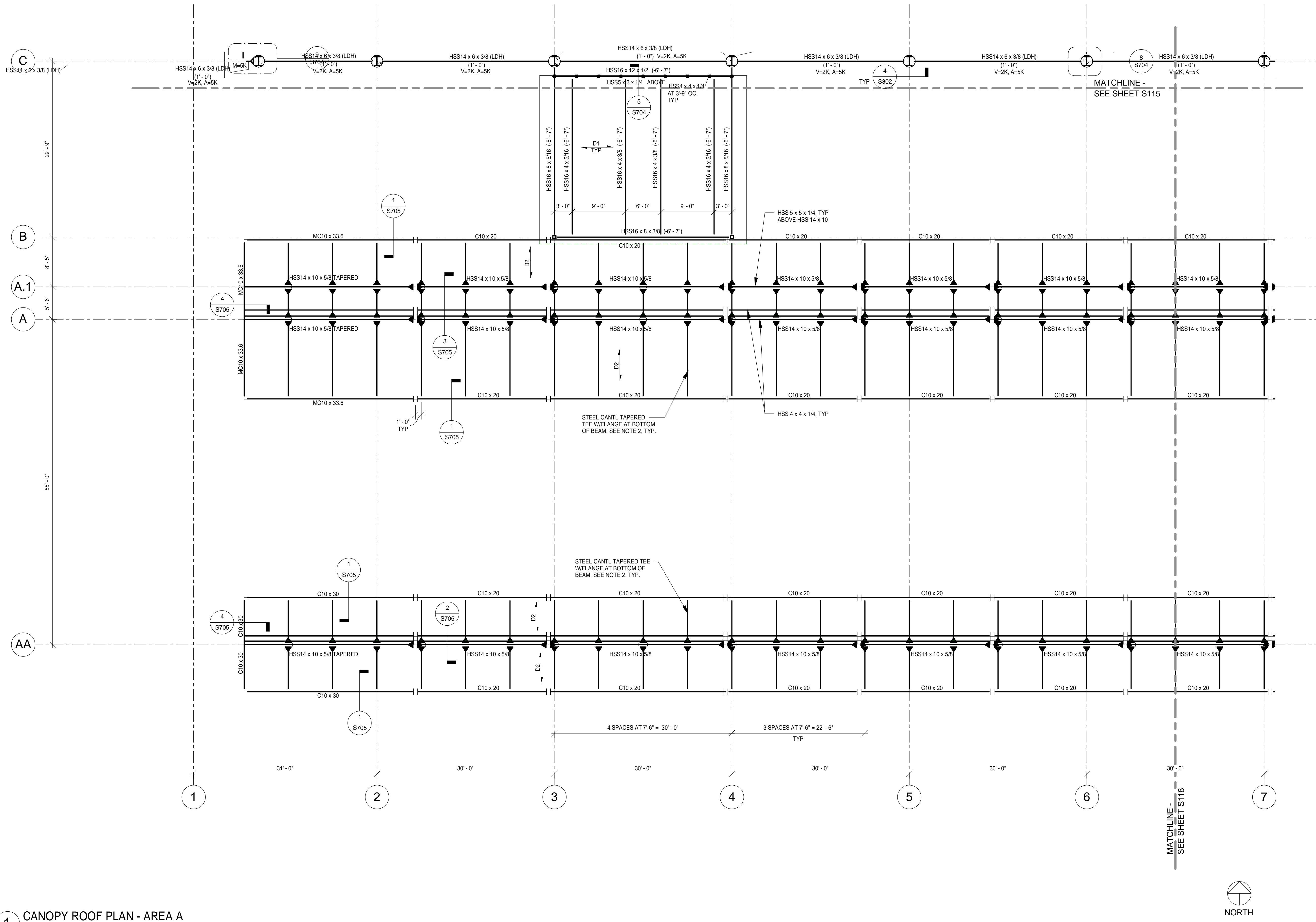
SHEET TITLE

**CANOPY ROOF  
FRAMING PLAN  
- AREA A**

SHEET NUMBER

**S117**

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CONSTRUCTION**



**1 CANOPY ROOF PLAN - AREA A**

1/8" = 1'-0"

**NOTES:**

1. REFER TO S115 FOR TYPICAL PLAN NOTES.  
2. FABRICATOR TO PROVIDE SECTION (BUILT UP PLATE SECTION OR CUT WT OR CUT WIDE FLANGE) WITH THE FOLLOWING DIMENSIONAL PROPERTIES:

d max = 14"  
d min = 6"  
bf = 12"  
tf = 1 3/8"  
tw = 3/4"  
Fy = 50 ksi







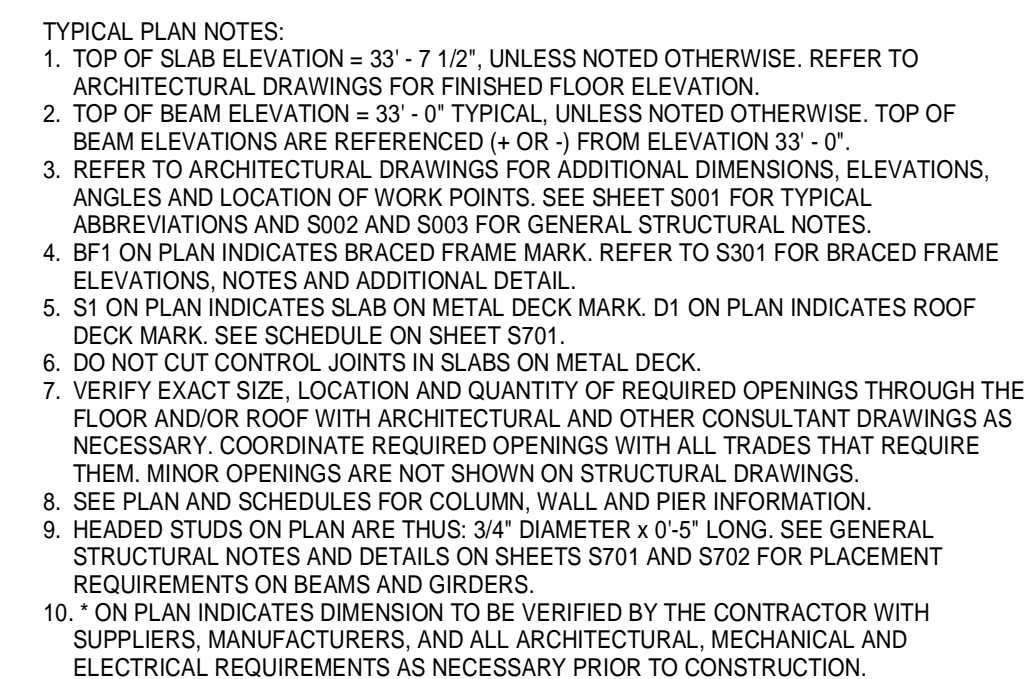
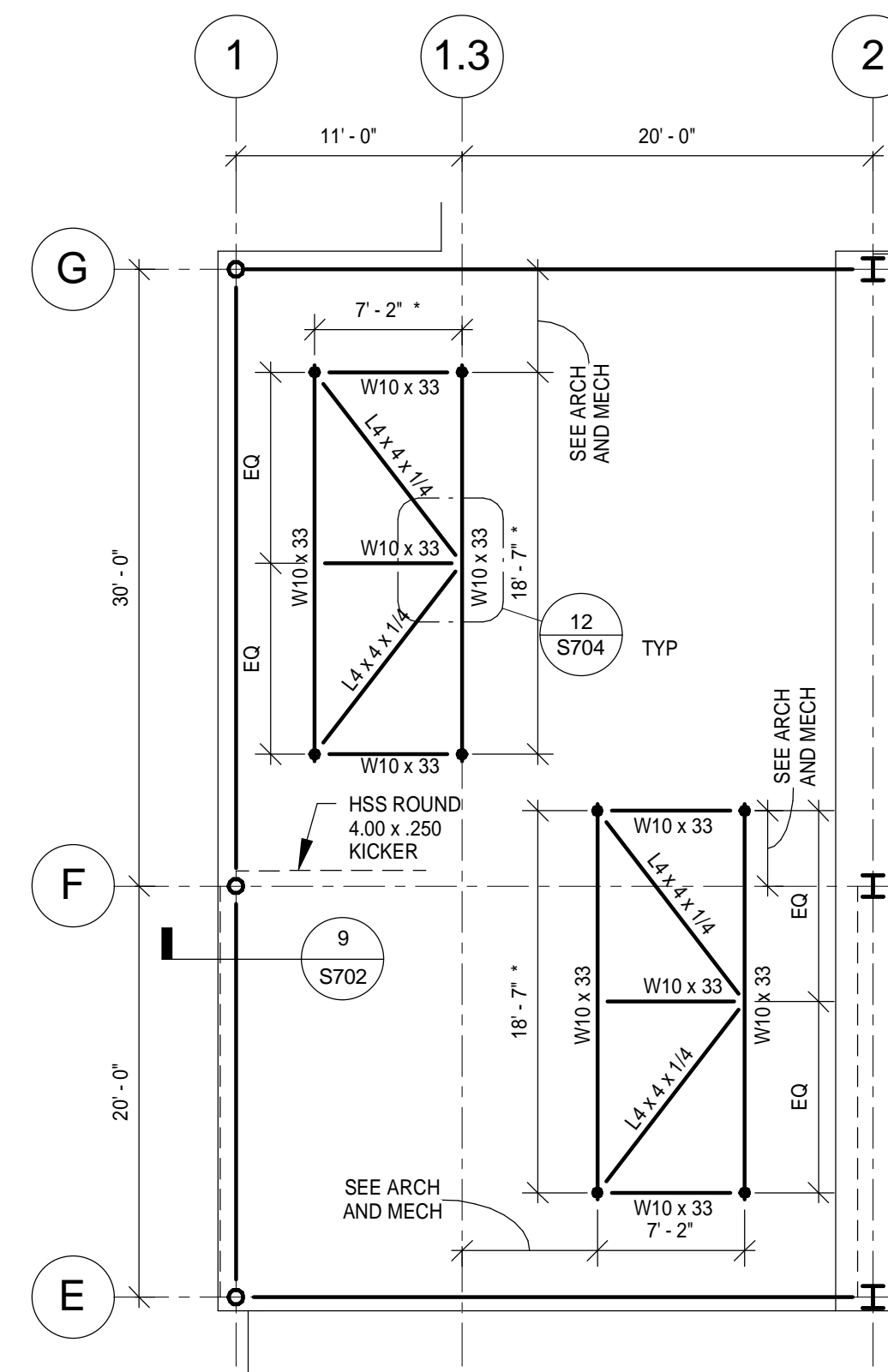
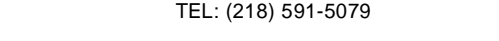


2 TUG ROAD ROOF FRAMING PLAN - AREA B

2 SECTION

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[illegible]

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DESIGNED BY:

AFP PROJECT NUMBER

012 1882 004

213-1882-091

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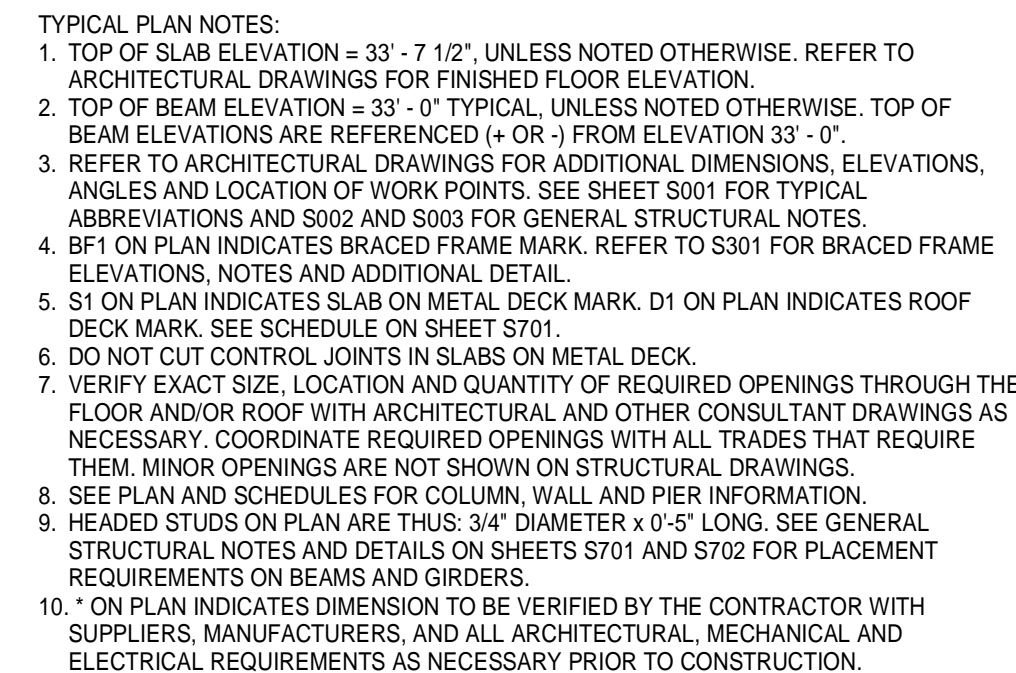
**THIRD LEVEL  
FRAMING PLAN  
- AREA A**

SHEET NUMBER

**S120**

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CONSTRUCTION**







## CONSULTANTS

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Landscape Consultant

**APPOLO DESIGN**

East First Street, Duluth MN 55812



1 ROOF LEVEL FRAMING PLAN - AREA A

$$\frac{1}{8}'' = 1'-0''$$

### TYPICAL PLAN NOTES

1. TOP OF STEEL BEAM ELEVATION IS REFERENCED (+ OR -) FROM ELEVATION 49'-6".
2. TOP OF STEEL BEAM = 49'-6", UNLESS NOTED OTHERWISE.
3. TOP OF SLAB ELEVATION VARIES. SEE PLAN
4. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS, ANGLES AND LOCATION OF WORK POINTS. SEE SHEET S001 FOR TYPICAL ABBREVIATIONS AND S002 AND S003 FOR GENERAL STRUCTURAL NOTES.
4. BF1 ON PLAN INDICATES BRACED FRAME MARK. REFER TO S301 FOR BRACED FRAME ELEVATIONS, NOTES AND ADDITIONAL DETAIL.
5. S1 ON PLAN INDICATES S101 REINFORCING METAL DECK MARK. D1 ON PLAN INDICATES ROOF DECK MARK. SEE SCHEDULE ON SHEET S701
6. DO NOT CUT CONTACT JOINTS IN SLABS ON METAL DECK.
7. VERIFY EXACT SIZE, LOCATION AND QUANTITY OF REQUIRED OPENINGS THROUGH THE FLOOR AND/OR ROOF WITH ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS AS NECESSARY. COORDINATE REQUIRED OPENINGS WITH ALL TRADES THAT REQUIRE THROUGH OPENINGS THROUGH THE FLOOR AND/OR ROOF.
8. SEE PLAN AND SCHEDULES FOR COLUMN, WALL AND PIER INFORMATION.
9. HEADED STUDS ON PLAN ARE THUS: 3/4" DIAMETER x 0'-5" LONG. SEE GENERAL STRUCTURAL NOTES AND DETAILS ON SHEETS S701 AND S702 FOR PLACEMENT REQUIREMENTS ON BEAMS AND GIRDERS.
10. ALL INDICATED DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR WITH SUPPLIERS, MANUFACTURERS AND/OR ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.

## REVISIONS

[illegible]

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DESIGNED BY: CWE

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SHEET TITLE

## ROOF LEVEL FRAMING PLAN - AREA A

SHEET NUMBER

# S122

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**DULUTH  
INTERNATIONAL  
AIRPORT  
DULUTH, MN**

## NEW TERMINAL DESIGN

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### Baggage Handling Systems Consultant

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**BNF ASSOCIATES INC.**  
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### Landowner Consults

Landscape Consultants:  
**ARBOLD DESIGN**

## APPOLD DESIGN

[illegible]

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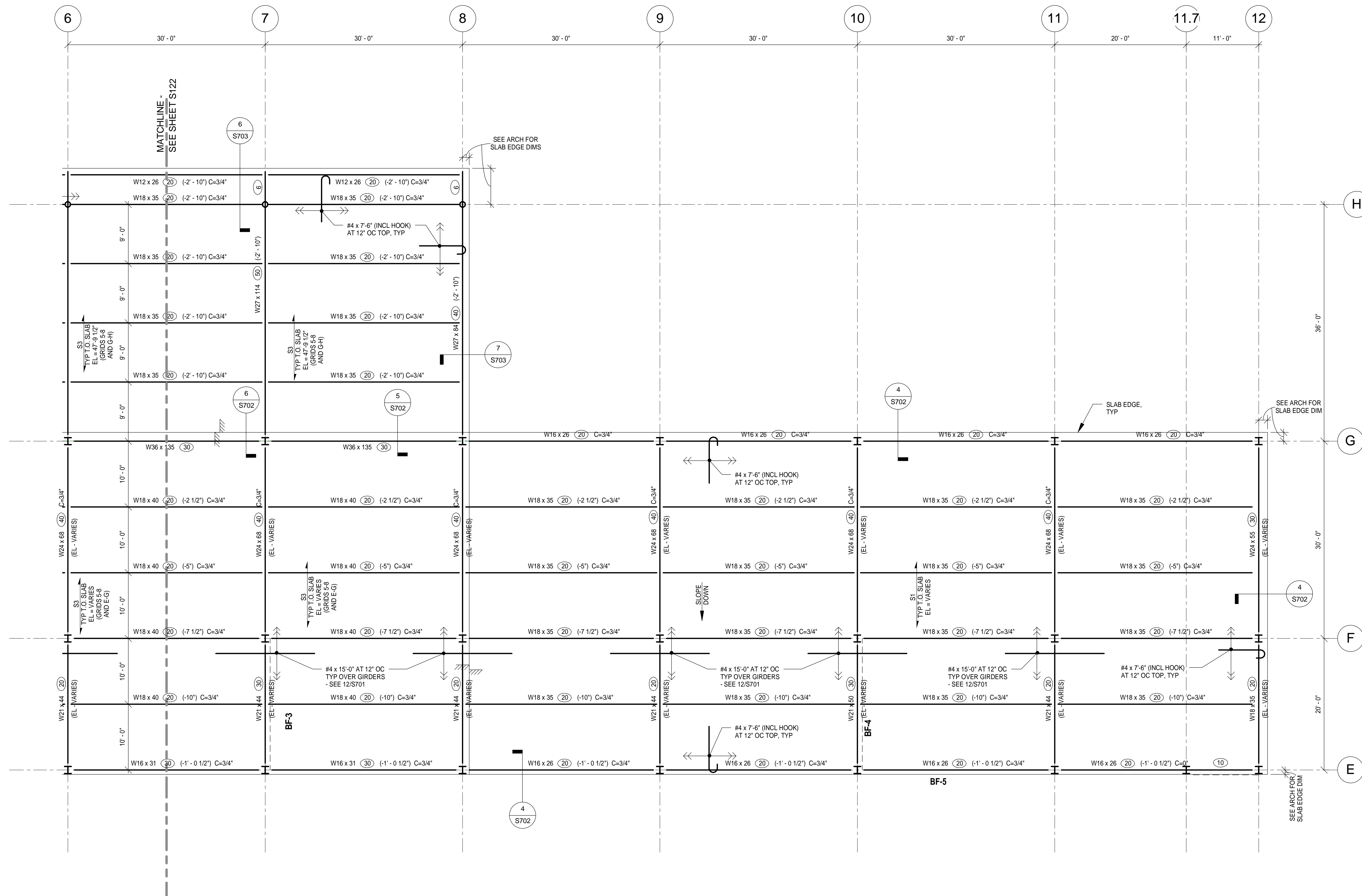
SHEET TITLE

**ROOF LEVEL  
FRAMING PLAN  
- AREA B**

SHEET NUMBER

# S123

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CONSTRUCTION**



1 ROOF LEVEL FRAMING PLAN - AREA B

$$1/8'' = 1'-0''$$

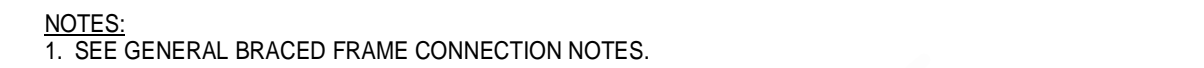
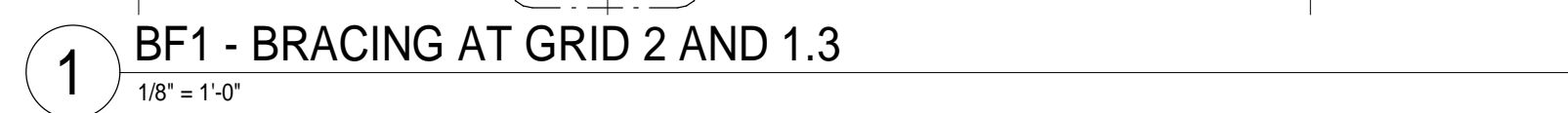
TYPICAL PLAN NOTES:

1. PLAN INDICATES BEAM ELEVATION IS REFERENCED (+ OR -) FROM ELEVATION 49'-6".
2. TOP OF STEEL BEAM = 49'-6", UNLESS NOTED OTHERWISE.
3. TOP OF SLAB ELEVATION VARIES. SEE PLAN.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS, ANGLES, AND LOCATION OF WORK POINTS. SEE SHEET S301 FOR TYPICAL ABBREVIATIONS AND SYMBOLS FOR GENERAL STRUCTURAL NOTES.
5. BFI ON PLAN INDICATES BRACED FRAME MARK. REFER TO S301 FOR BRACED FRAME ELEVATIONS, NOTES AND ADDITIONAL DETAIL.
6. SI ON PLAN INDICATES SLAB ON METAL DECK MARK. DI ON PLAN INDICATES ROOF DECK MARK. SEE SCHEDULE S301 FOR DETAIL.
7. DO NOT CUT CONTROL JOINTS IN SLABS ON METAL DECK.
8. VERIFY EXACT SIZE, LOCATION AND QUANTITY OF REQUIRED OPENINGS THROUGH THE FLOOR AND/OR ROOF WITH ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS AS NECESSARY. COORDINATE REQUIRED OPENINGS WITH ALL TRADES THAT REQUIRE THEM. MINOR OPENINGS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
9. HEADS SHOWN ON PLAN ARE THUS: 3/4" DIAMETER X 0'-5" LONG. SEE GENERAL STRUCTURAL NOTES AND DETAILS ON SHEETS S701 AND S702 FOR PLACEMENT REQUIREMENTS ON BEAMS AND GIRDERS.
10. ON PLAN INDICATES DIMENSIONS TO BE VERIFIED BY THE CONTRACTOR WITH SUPPLIERS, MANUFACTURERS, AND ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.



NORTH





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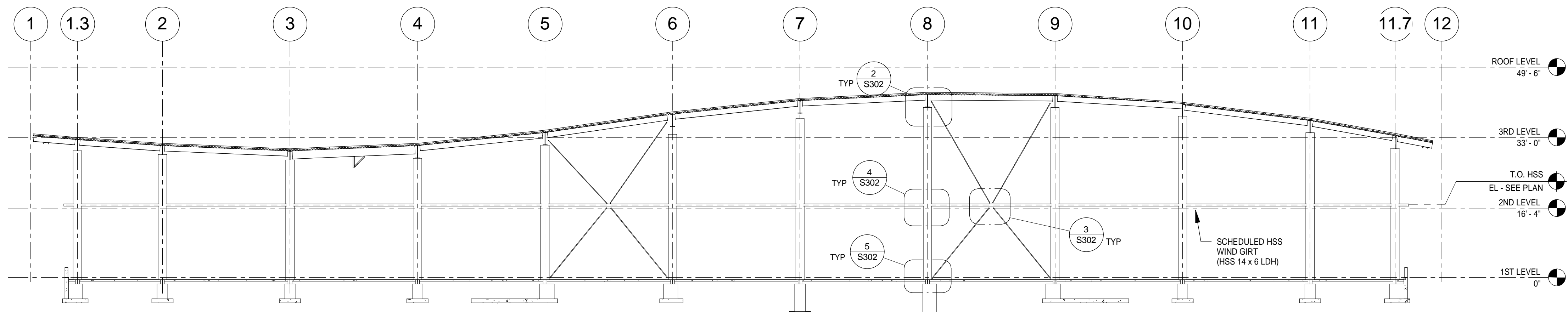
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SHEET TITLE  
**ELEVATIONS**

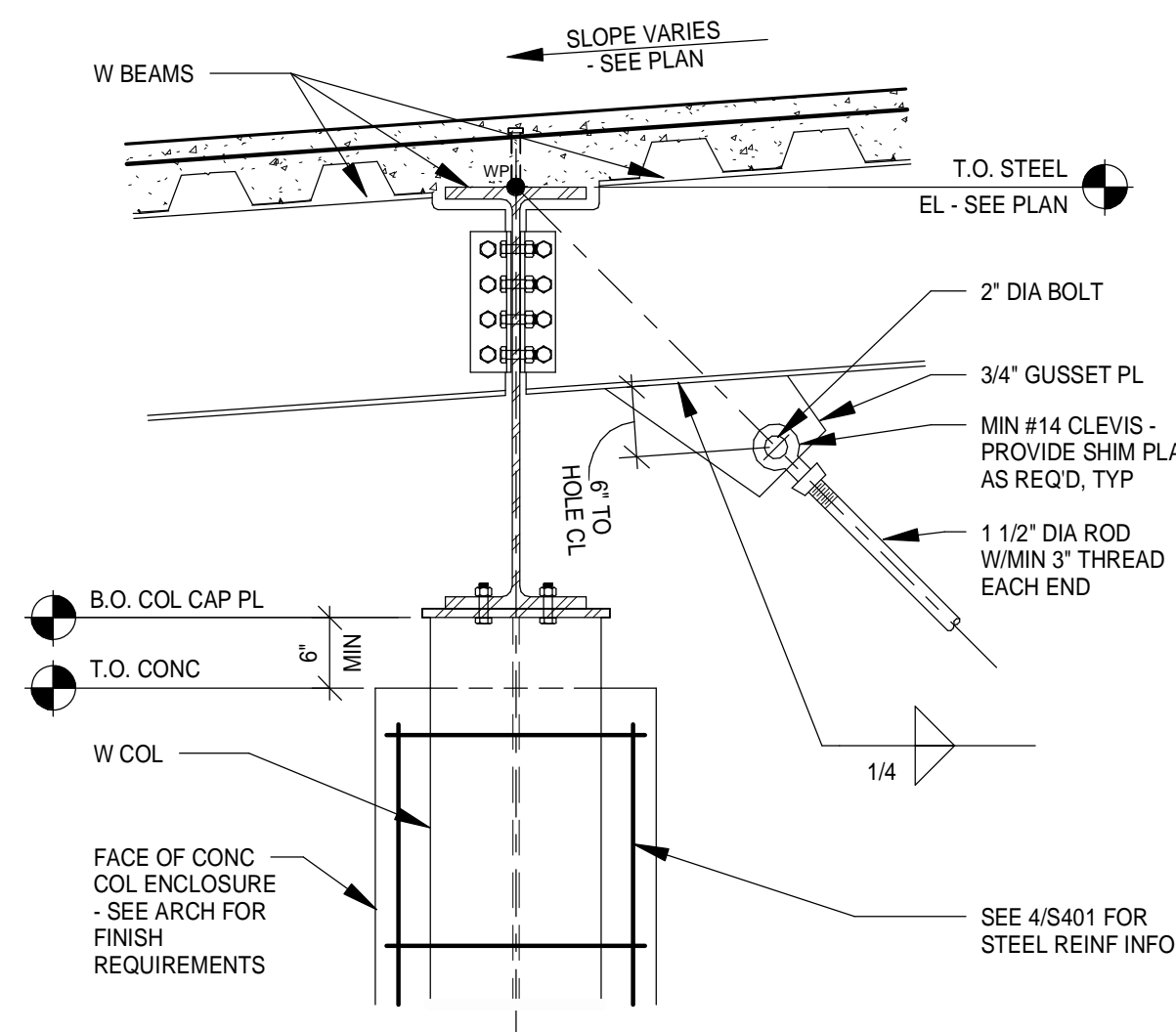
SHEET NUMBER

**S302**

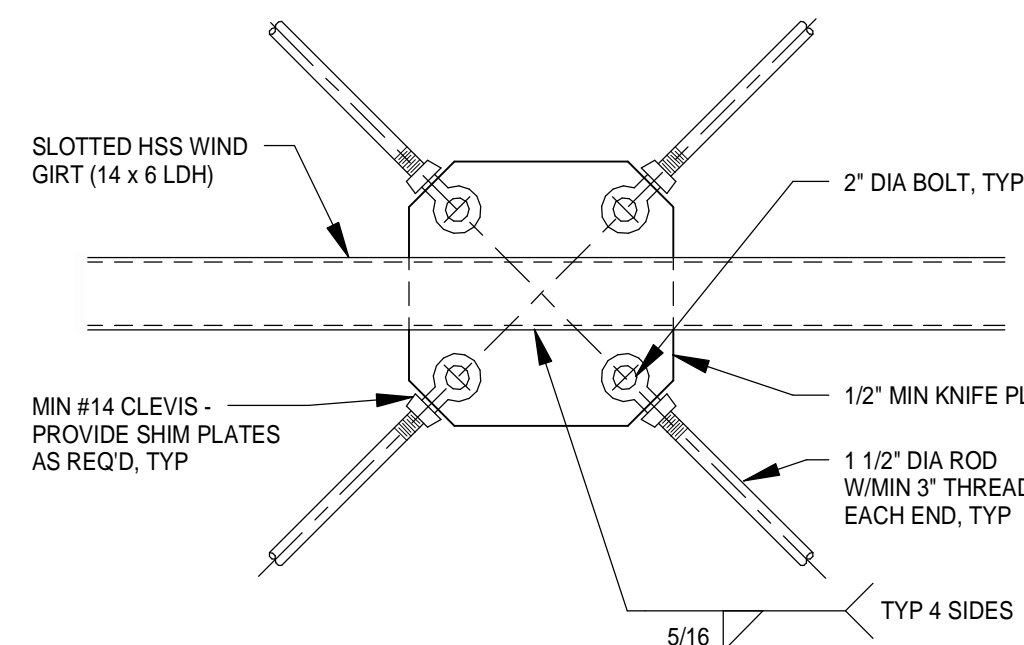
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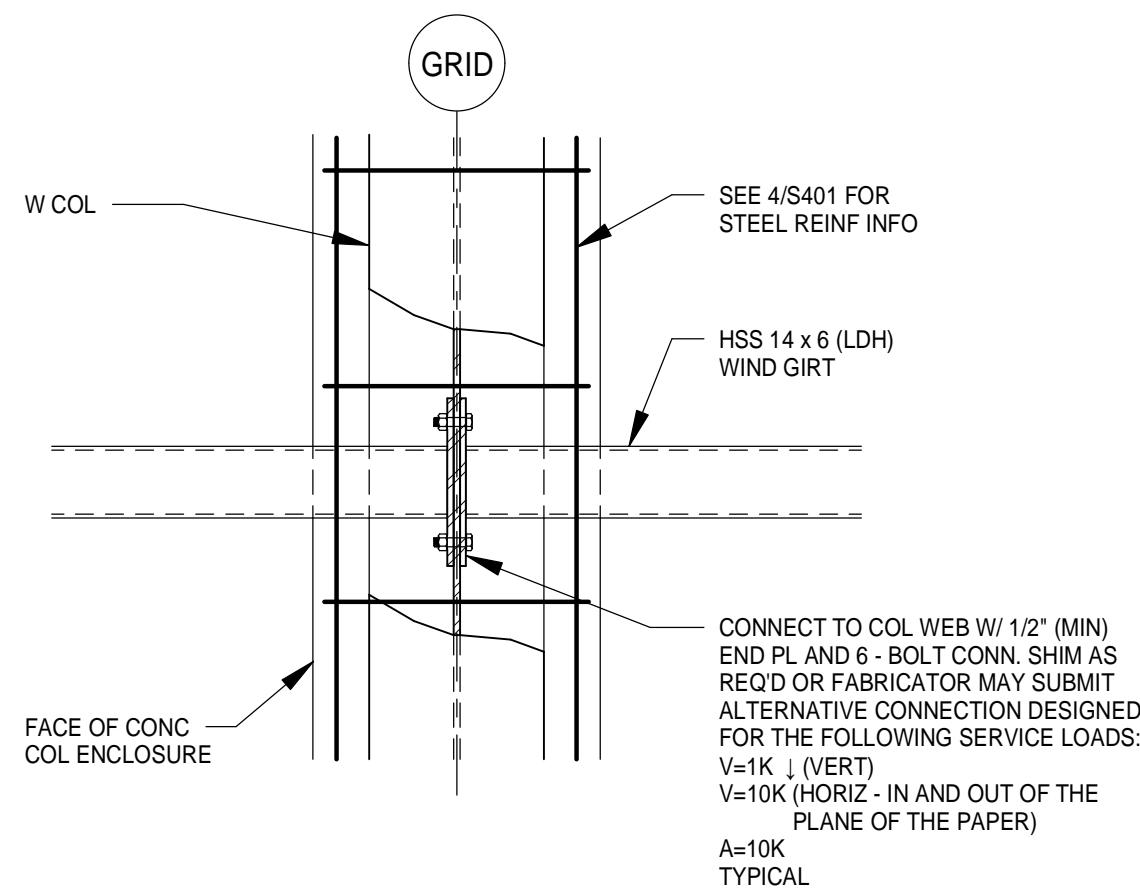
**1 ELEVATION AT GRID "C"**  
1/16" = 1'-0"



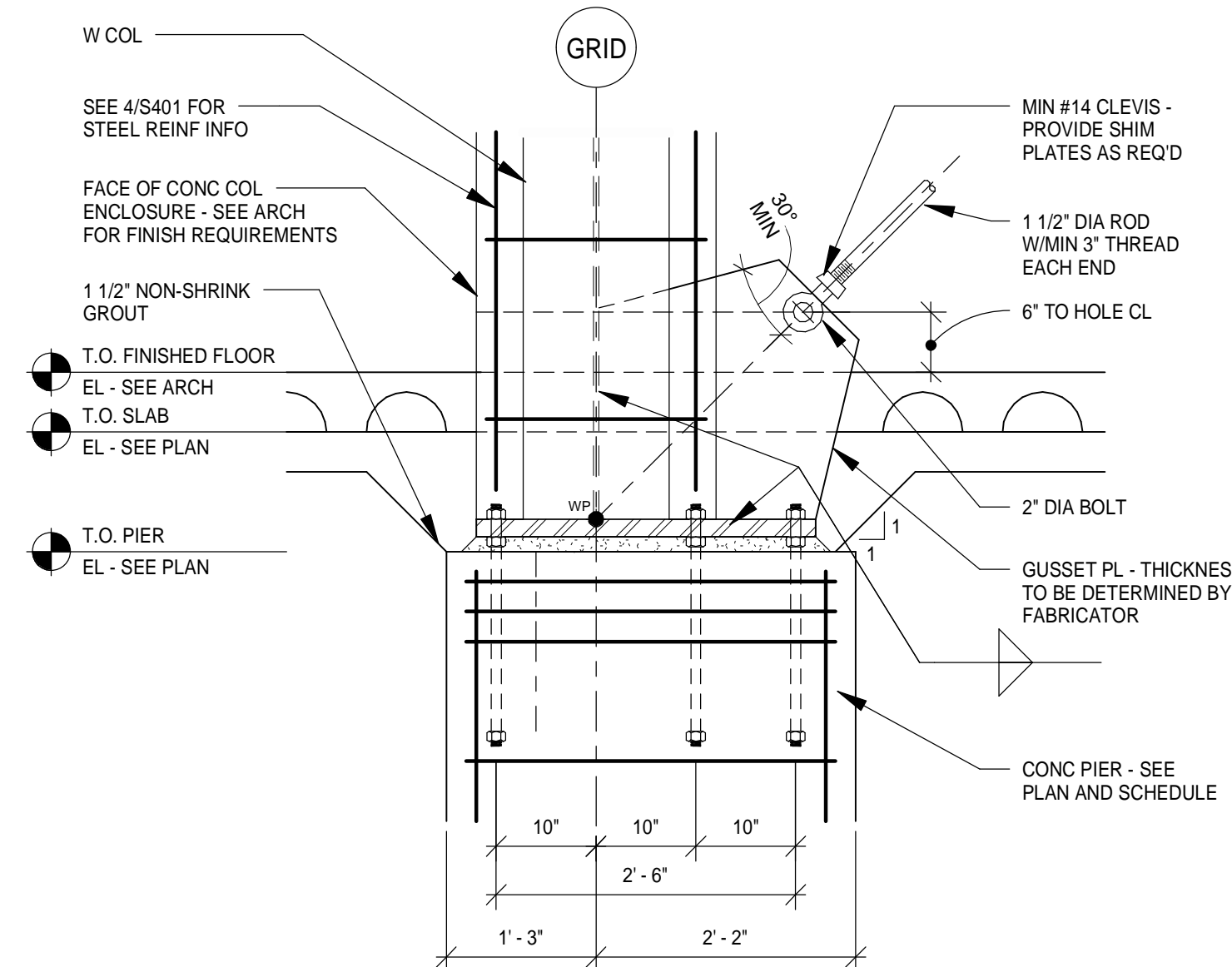
**2 SECTION AT COLUMN HEAD**  
3/4" = 1'-0"



**3 SECTION AT BRACING INTERSECTION**  
3/4" = 1'-0"



**4 SECTION AT COLUMN TO GIRT CONNECTION**  
3/4" = 1'-0"



**5 SECTION AT COLUMN BASE**  
3/4" = 1'-0"





## CONSULTANTS

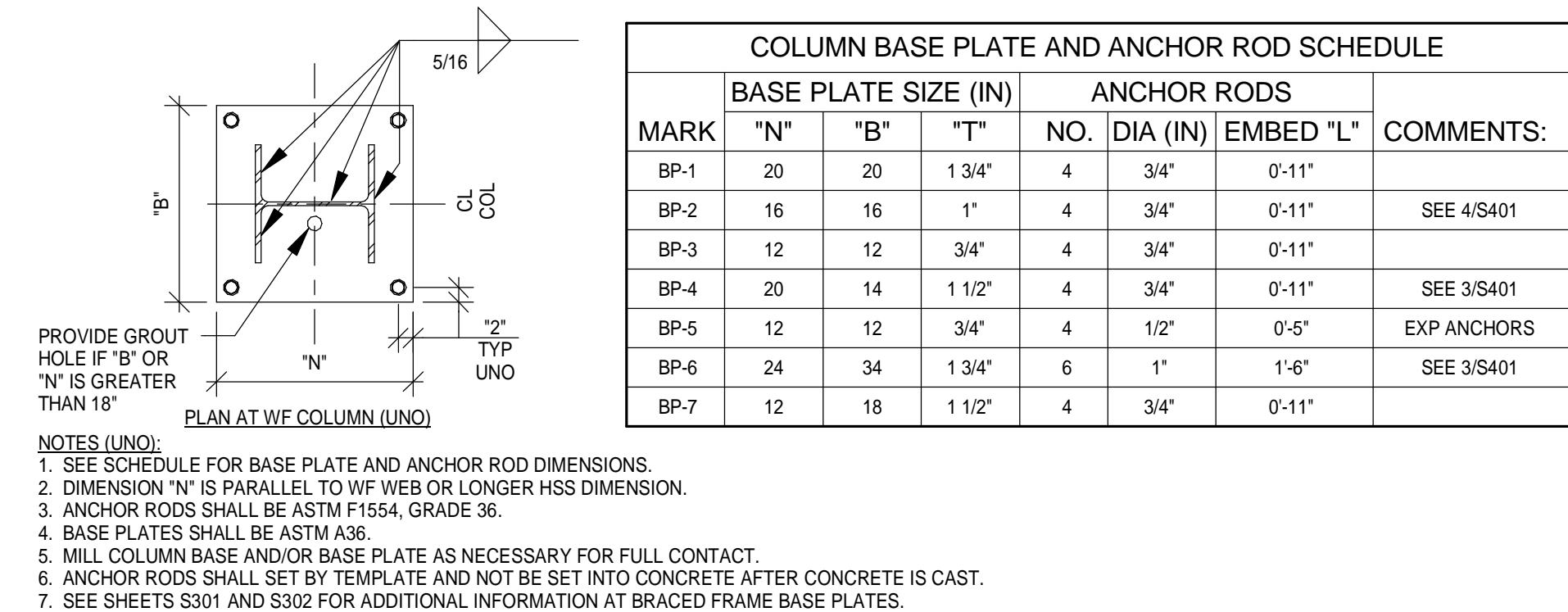
Structural Engineers:  
**MBJ CONSULTING ENG.**  
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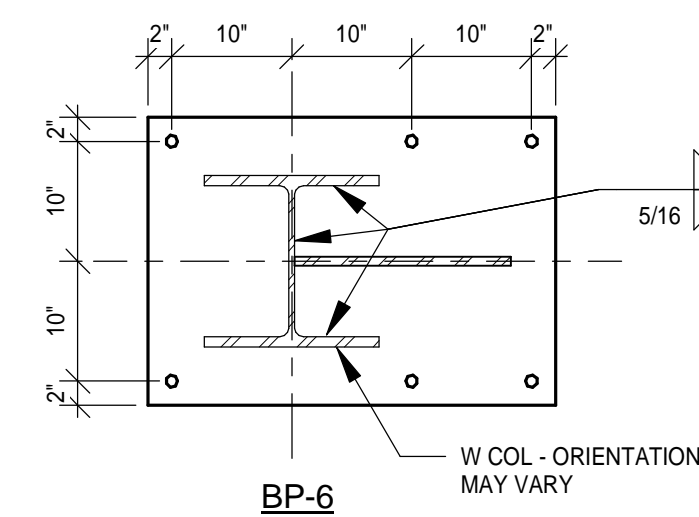
Baggage Handling Systems Consultants:  
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Column Locations	G-12	H-1.3, H-11.7	H-2, H-3, H-4, H-9, H-10, H-11	H-5, H-8	H-6, H-7	
1ST LEVEL	0"					1ST LEVEL
2ND LEVEL	16' - 4"	BP-2	BP-2	BP-2	BP-2	2ND LEVEL
3RD LEVEL	33' - 0"					3RD LEVEL
ROOF LEVEL	49' - 6"					ROOF LEVEL



## NO SCALE



## NO SCALE



## NO SCALE

1 STEEL COLUMN SCHEDULE  
NO SCALE

## REVISIONS

[illegible]

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SHEET TITLE

**COLUMN  
SCHEDULE  
AND DETAILS**

SHEET NUMBER

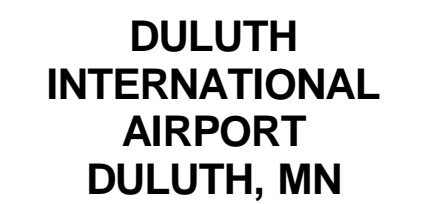
# S401

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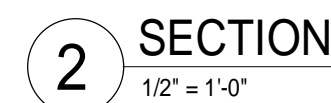
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[illegible]

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## 6 CONCRETE PIER SCHEDULE AND PLAN DETAILS





CMU WALL REINFORCING SCHEDULE CENTERED IN WALL					COMMENTS
MARK	WALL TYPE	FOOTING DOWELS	HORIZONTAL	VERTICAL	
W1	8" CMU	#5 AT 24" OC	AS NOTED ON DETAILS	#5 AT 24" OC	

UNLESS NOTED OTHERWISE:  
1. PROVIDE CLASS 'A' SPLICE TO DOWELS TYPICAL.  
2. FOR ALL CMU WALLS NOT INDICATED ON STRUCTURAL PLANS, SEE "NON-LOAD BEARING MASONRY PARTITION WALL REINFORCING SCHEDULE".  
3. SEE LINTEL SCHEDULE THIS SHEET FOR LINTELS OVER MASONRY WALL OPENINGS.

### 1 WALL REINFORCING SCHEDULE

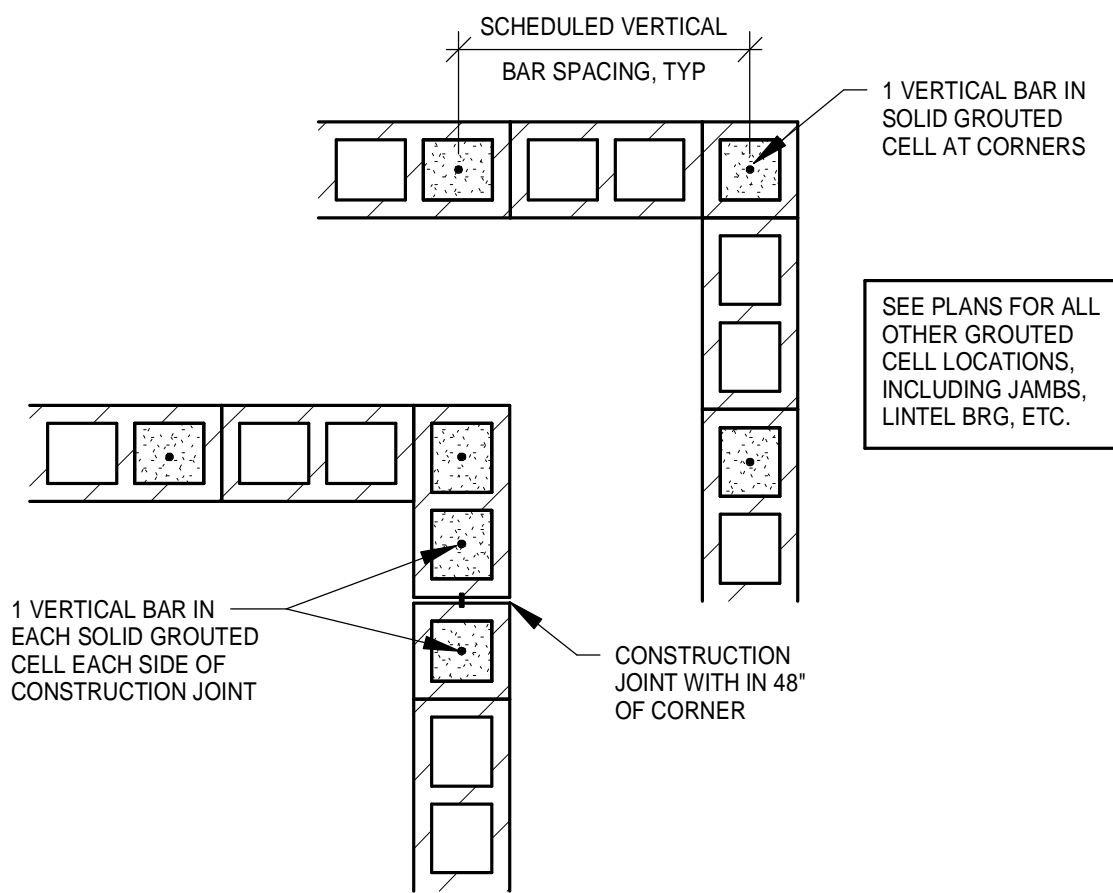
NO SCALE

CMU LINTEL SCHEDULE			
WALL TYPE	ROUGH OPENING	REQUIRED LINTEL	BEARING LENGTH EACH END
6" CMU	UP TO 3'-4"	8" DEEP BOND BM W/1 - #5 CONT BOTT	8"
6" CMU	3'-4" TO 8'-0"	16" DEEP BOND BM W/1 - #5 CONT TOP AND BOTT	16"
8" CMU	UP TO 5'-4"	8" DEEP BOND BM W/2 - #5 CONT BOTT	8"
8" CMU	5'-4" TO 10'-0"	16" DEEP BOND BM W/2 - #5 CONT TOP AND BOTT AND #4 SINGLE LEG HOOKED STIRRUP AT 8" OC	16"

NOTES:  
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROUGH OPENING SIZES AND ELEVATIONS.  
2. USE LINTEL BLOCKS FOR ALL CMU LINTELS.  
3. PROVIDE 8" DEEP BOND BM W/2 - #5 CONT BOTTOM AT ALL SILLS.  
4. ALL LINTEL REINFORCING TO EXTEND 1'-4" MINIMUM BEYOND EDGES OF ROUGH OPENING.

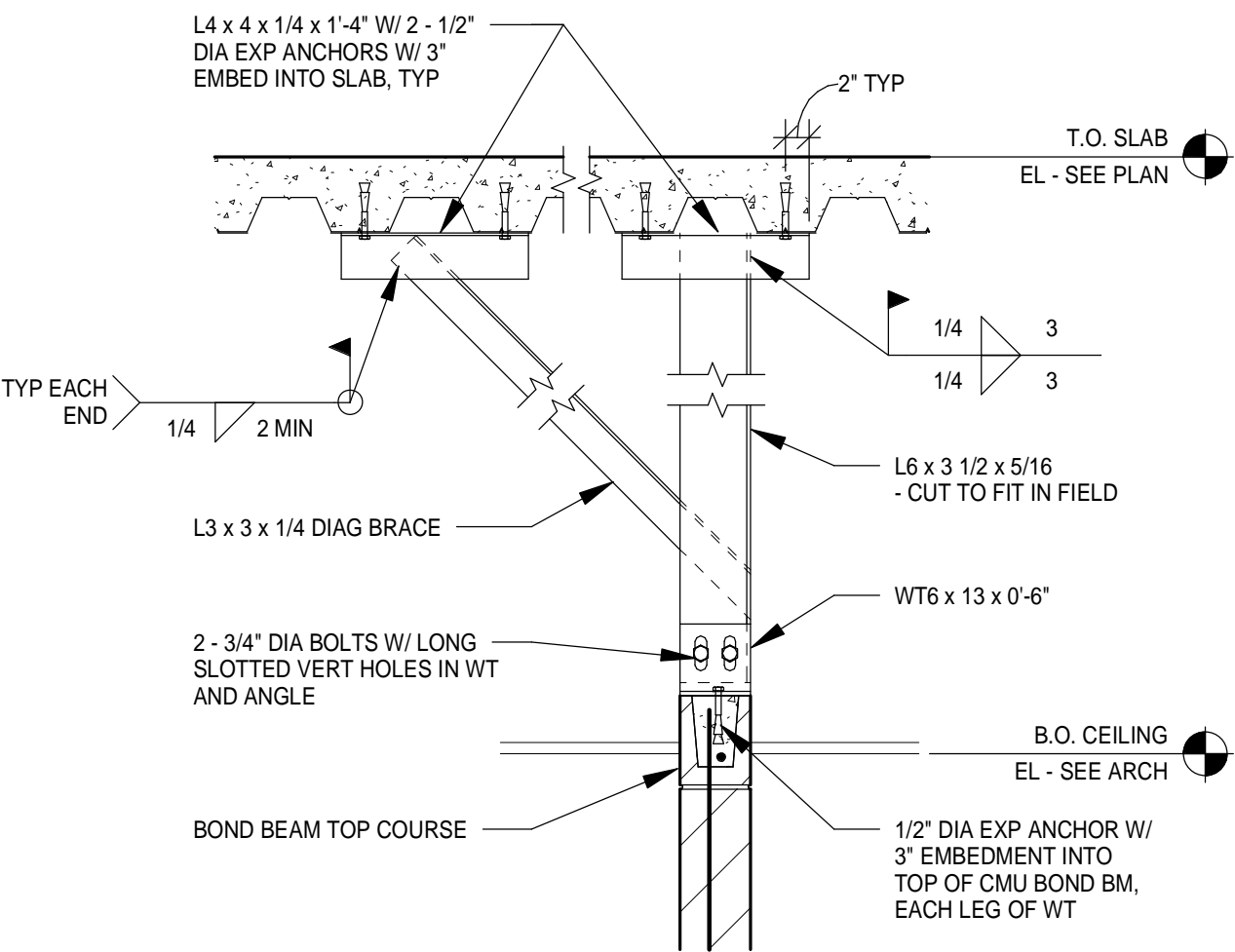
### 3 LINTEL SCHEDULE

NO SCALE



### 5 MASONRY CORNER DETAIL

NO SCALE



### 9 FLOOR DECK PARALLEL TO WALL

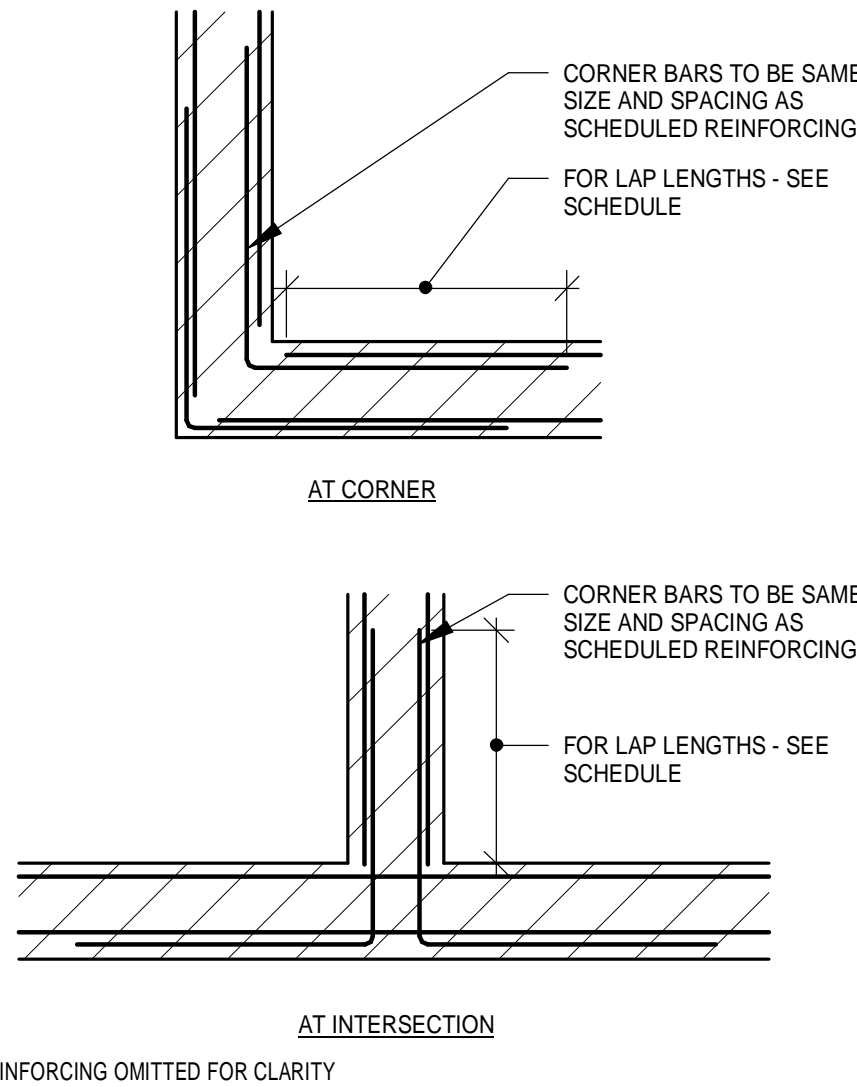
NO SCALE

MASONRY LAP SPLICE SCHEDULE	
BAR SIZE	8" CMU (1 BAR IN CENTER) f <sub>c</sub> = 2,000 PSI
#4	24"
#5	30"
#6	36"

NOTES:  
1. ALL BARS TO BE IN FULLY GROUTED CELLS OR BOND BEAMS  
2. F<sub>y</sub> = 60 KSI (F<sub>s</sub> = 24 KSI MAX)  
3. BAR LAP LENGTHS PER IBC 2006 SECTION 2107.5 AND ACI 530 E-2.9

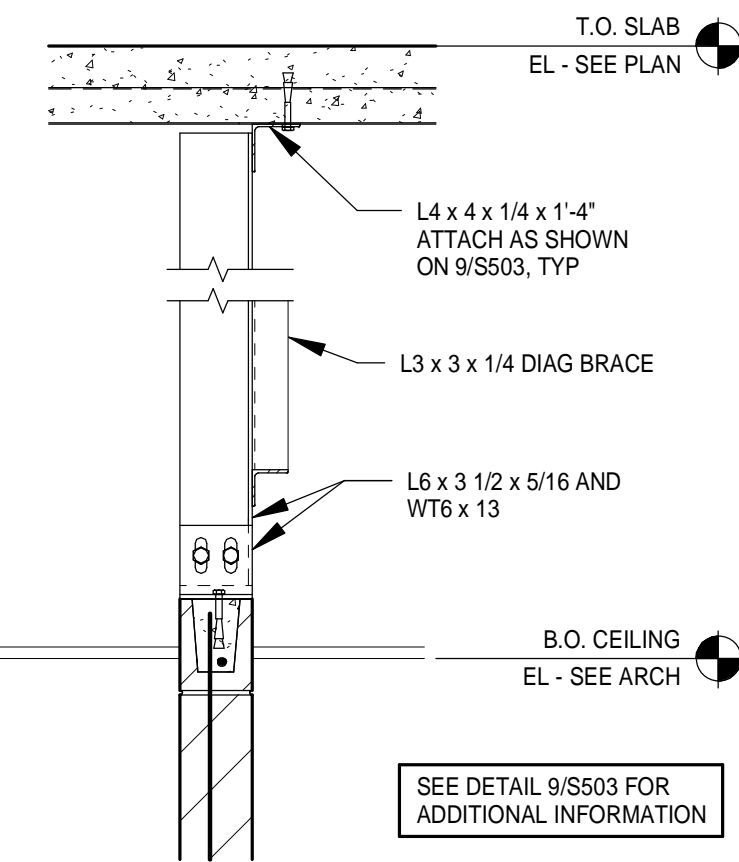
### 4 SCHEDULE

NO SCALE



### 6 TYPICAL HORIZONTAL REINFORCING

NO SCALE

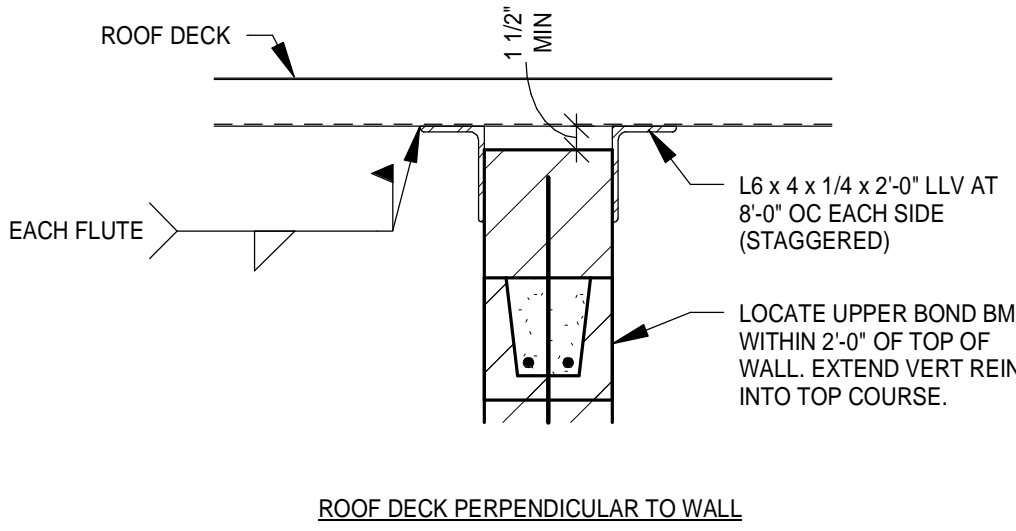


### 10 FLOOR DECK PERPENDICULAR TO WALL

3/4" = 1'-0"

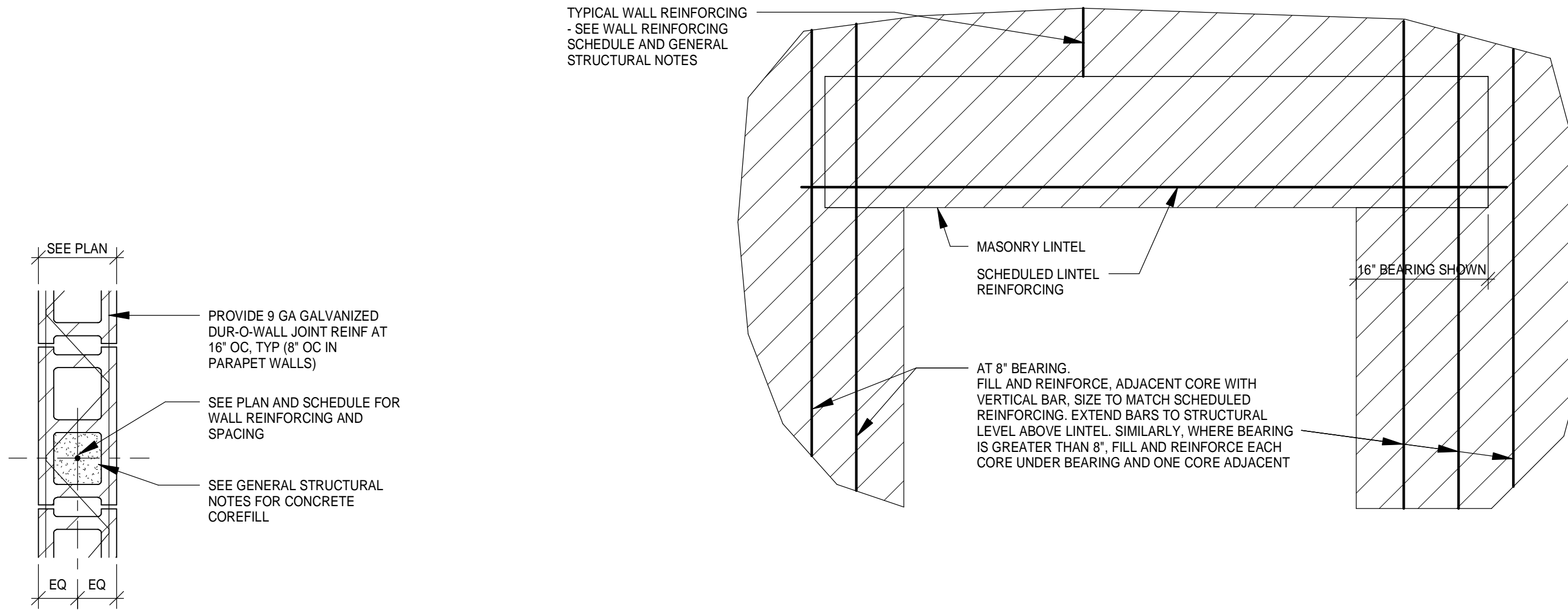
NON-LOAD BEARING MASONRY PARTITION WALL REINFORCING SCHEDULE		
WALL TYPE	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6" CMU UP TO 13'-0"	#4 AT 4'-0" OC, CENTERED	BOND BM AT 5'-4" OC W/1 - #5 CONT, CENTERED
8" CMU UP TO 13'-0"	#5 AT 5'-4" OC, CENTERED	BOND BM AT TOP OF WALL AND ABOVE ALL OPNGS. EACH W/2 - #5 CONT
8" CMU CNT'L TO 5'-4" MAX	#5 AT 2'-8" OC, CENTERED	BOND BM AT TOP OF WALL W/2 - #5 CONT

NOTES:  
1. REFER TO TYPICAL DETAILS FOR DOWELS AT BOTTOM OF CMU WALLS AND BRACING AT TOP OF CMU WALLS. TOP OF WALL BRACING TO BE PLACED AT 10'-0" OC MAX SPACING WHERE DISTANCE BETWEEN WALL CORNERS EXCEEDS 12'-0". CONTRACTOR MAY USE ONE OF THE BRACING OPTIONS PROVIDED OR COORDINATE ALTERNATE BRACING WITH A/E.  
2. GROUT CMU SOLID AT HANDRAIL, GUARDRAIL AND OTHER SUPPORTS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND ADDITIONAL GROUTING REQUIREMENTS.  
3. PROVIDE (1) ADDITIONAL VERTICAL BAR MATCHING SCHEDULED REINFORCING IN FULLY GROUTED CELL AT CORNERS AND WITHIN 8" OF ALL OPENINGS.  
4. REFER TO 3/S503 FOR MASONRY LINTEL SCHEDULE.



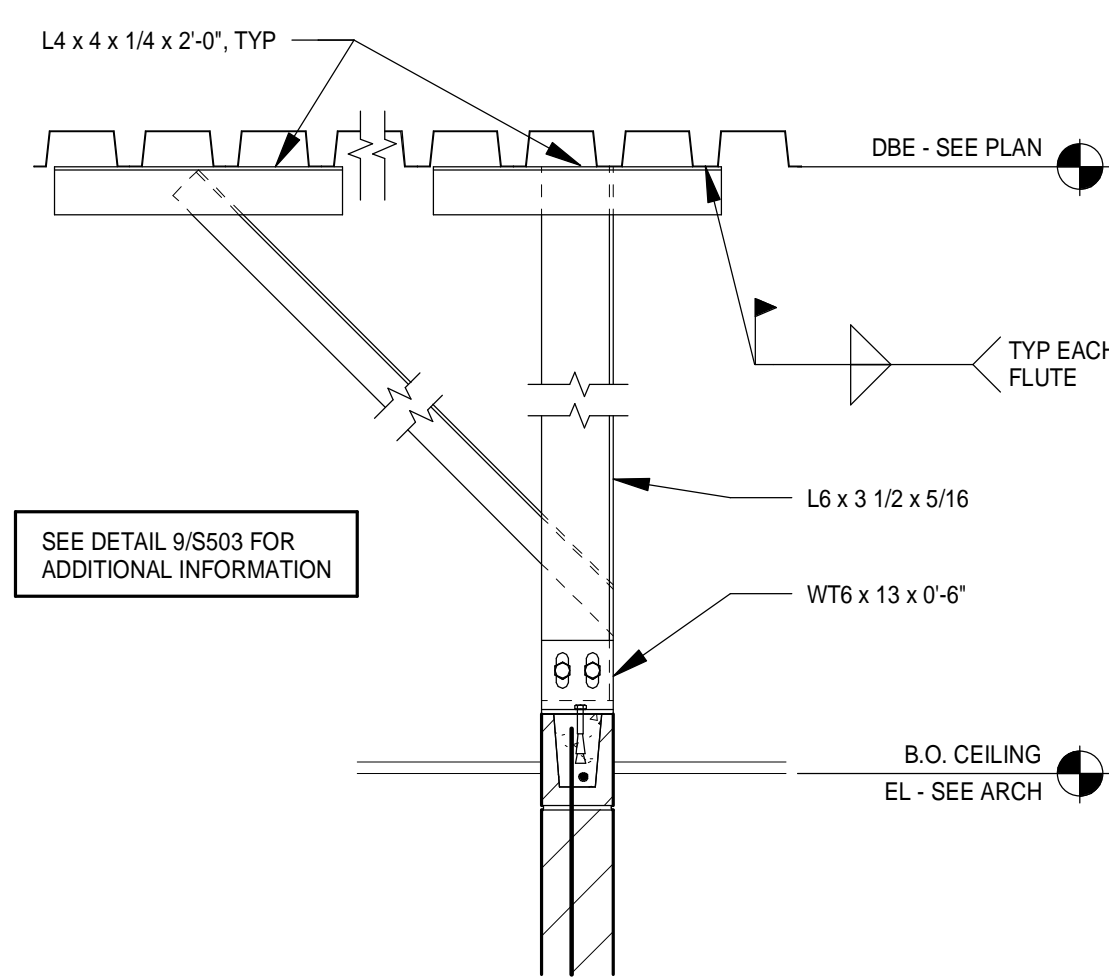
### 2 NON-LOAD BEARING WALL REINFORCING SCHEDULE AND TYPICAL DETAILS

NO SCALE



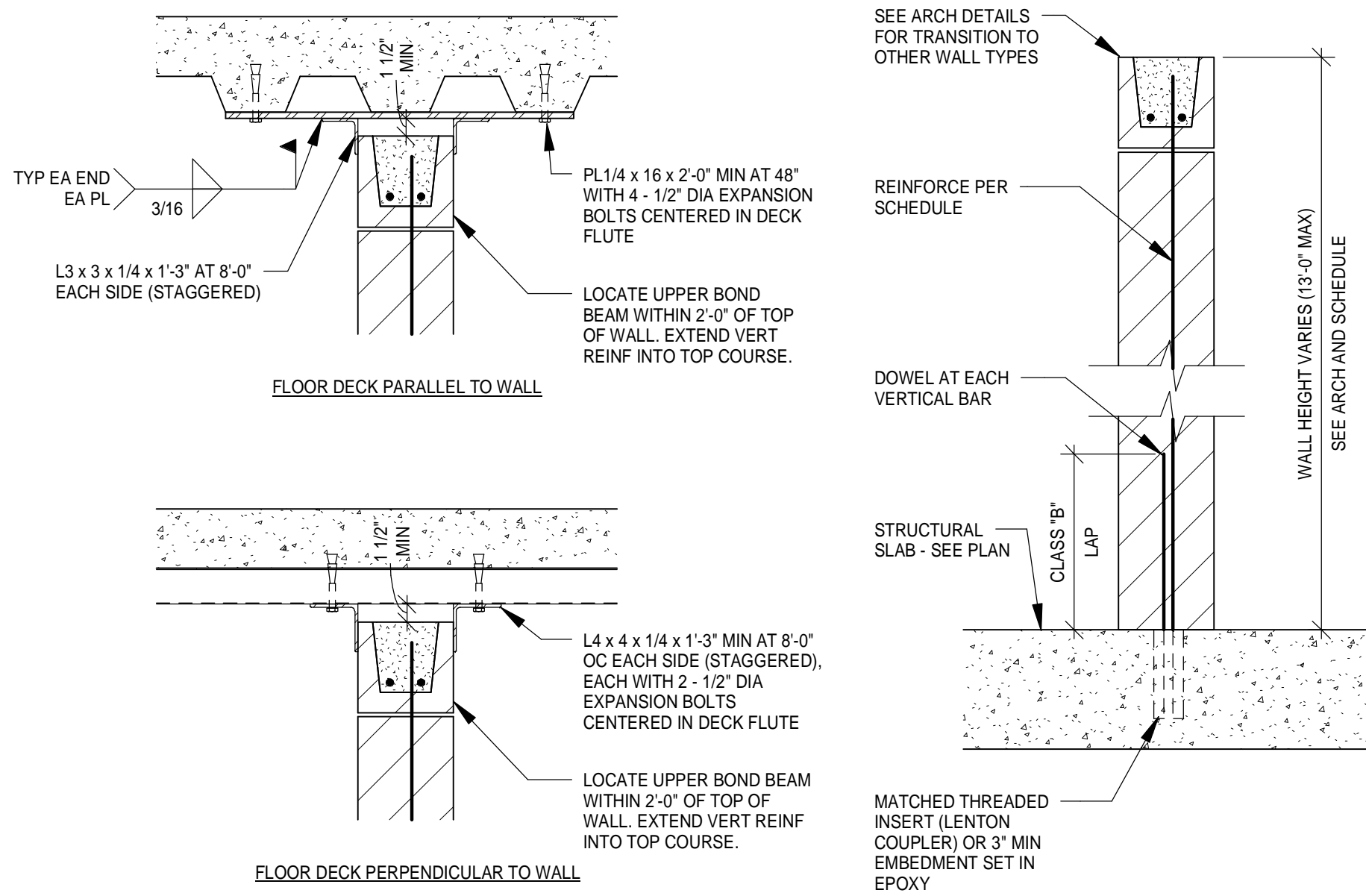
### 7 TYPICAL CMU WALL DETAIL

NO SCALE



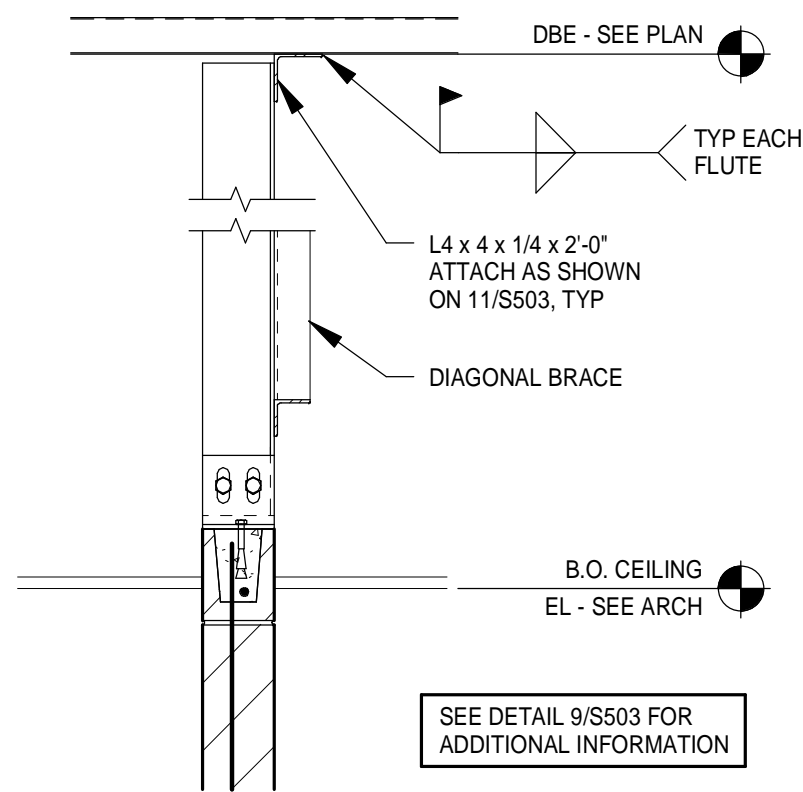
### 11 ROOF DECK PARALLEL TO WALL

3/4" = 1'-0"



### 8 TYPICAL CMU LINTEL BEARING DETAIL

NO SCALE



### 12 ROOF DECK PERPENDICULAR TO WALL

3/4" = 1'-0"

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#### REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10

REVIEWED BY:

DRAWN BY: SJL

DESIGNED BY: CWB

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

**STRUCTURAL DETAILS**

SHEET NUMBER

**S503**

**90% NOT FOR CONSTRUCTION**





## CONSULTANTS

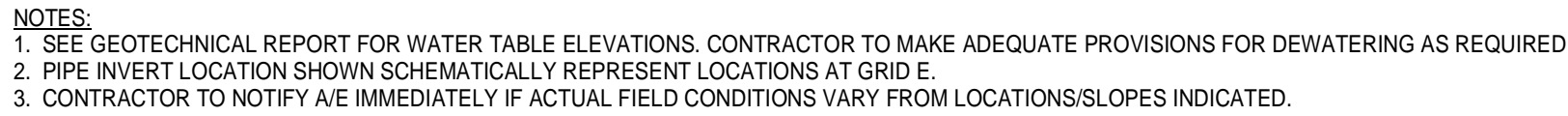
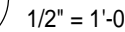
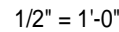
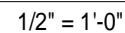
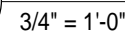
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$$1/4'' = 1'-0''$$

$$1/2^n = 1 \cdot 0$$
[illegible]

DATE ISSUED: 04-12-10

REVIEWED BY:

DRAWN BY: SJL

DESIGNED BY: CWB

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213-1882-091  
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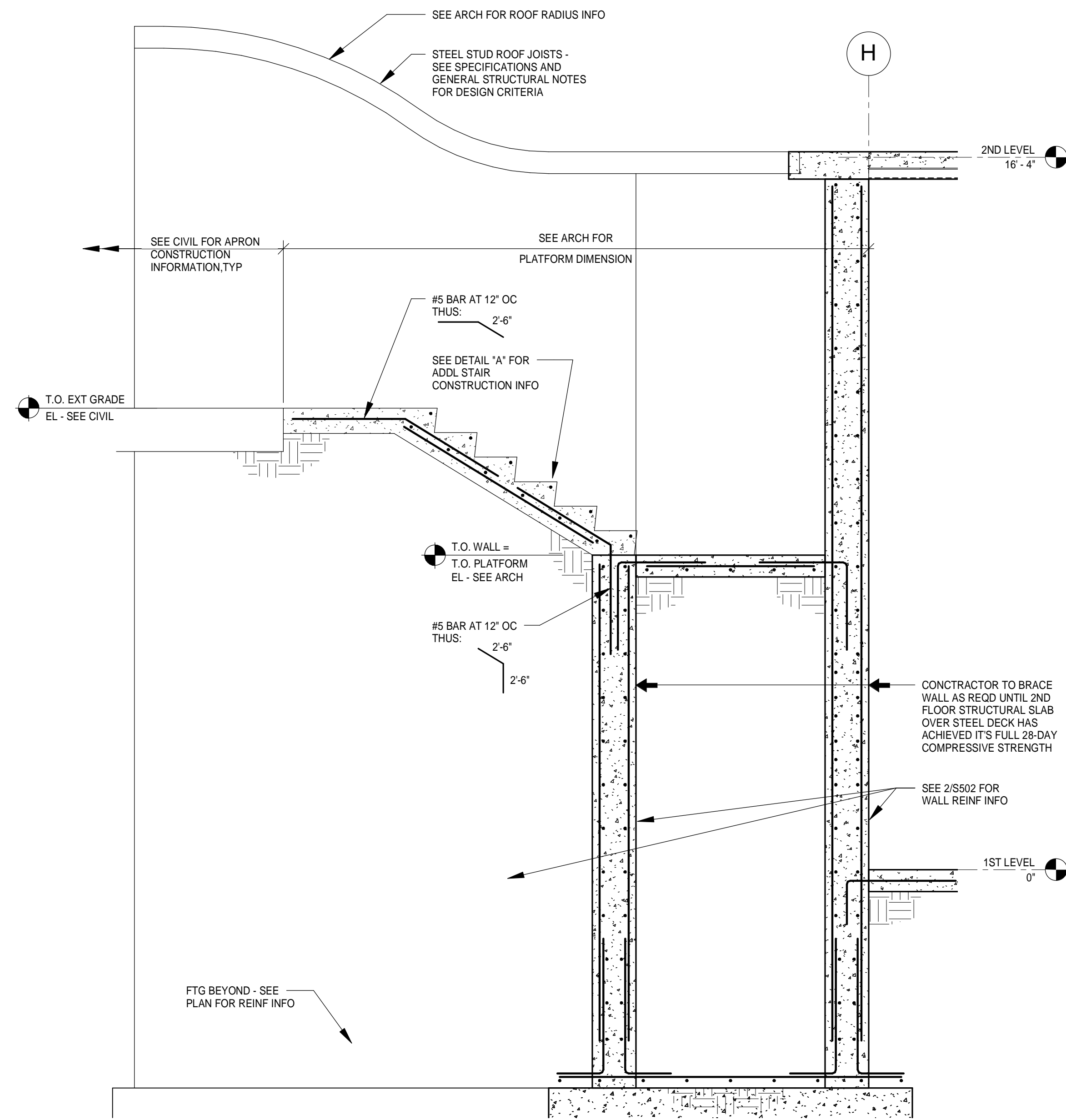
SHEET TITLE

**STRUCTURAL  
DETAILS**

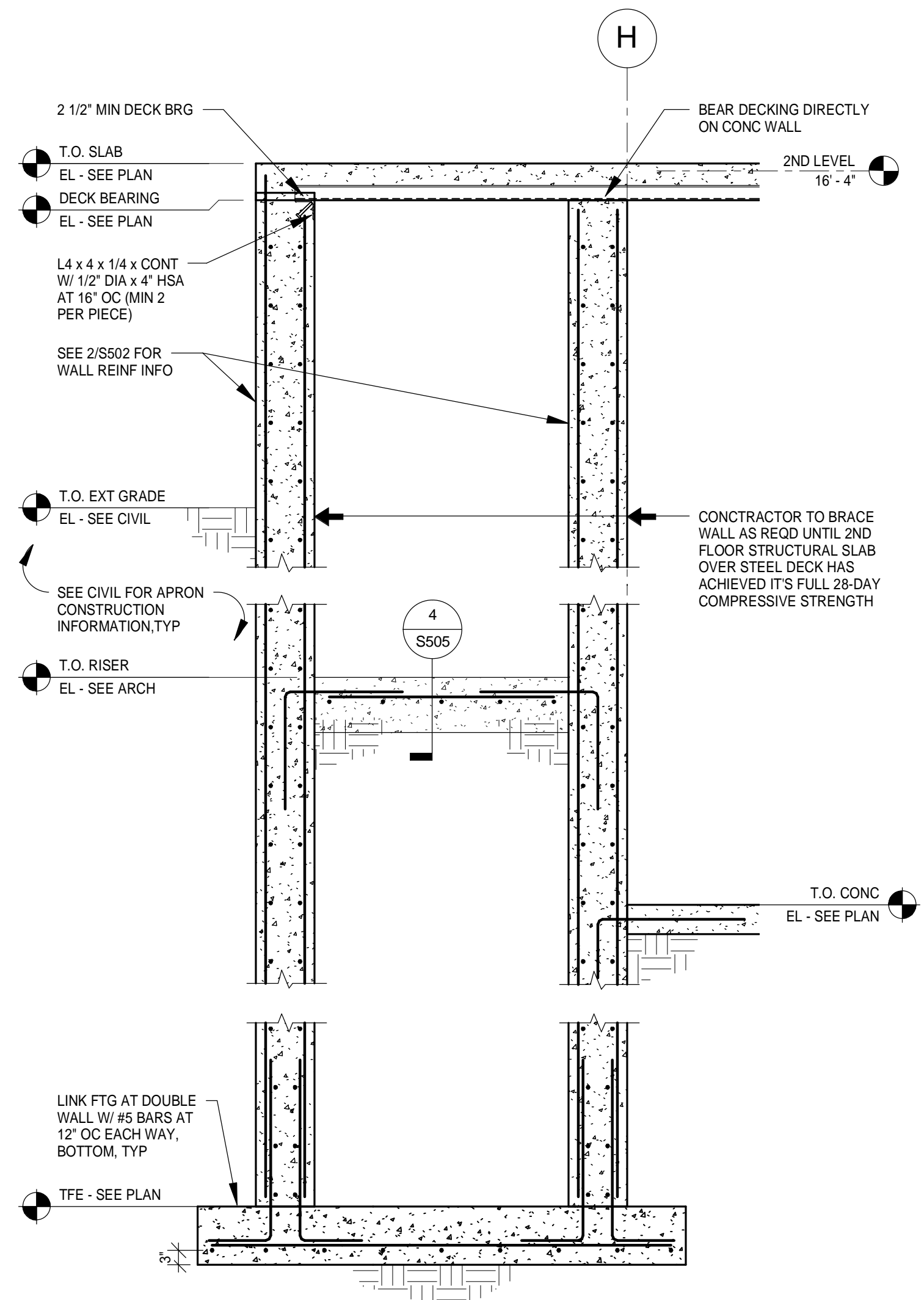
SHEET NUMBER  
**S504**

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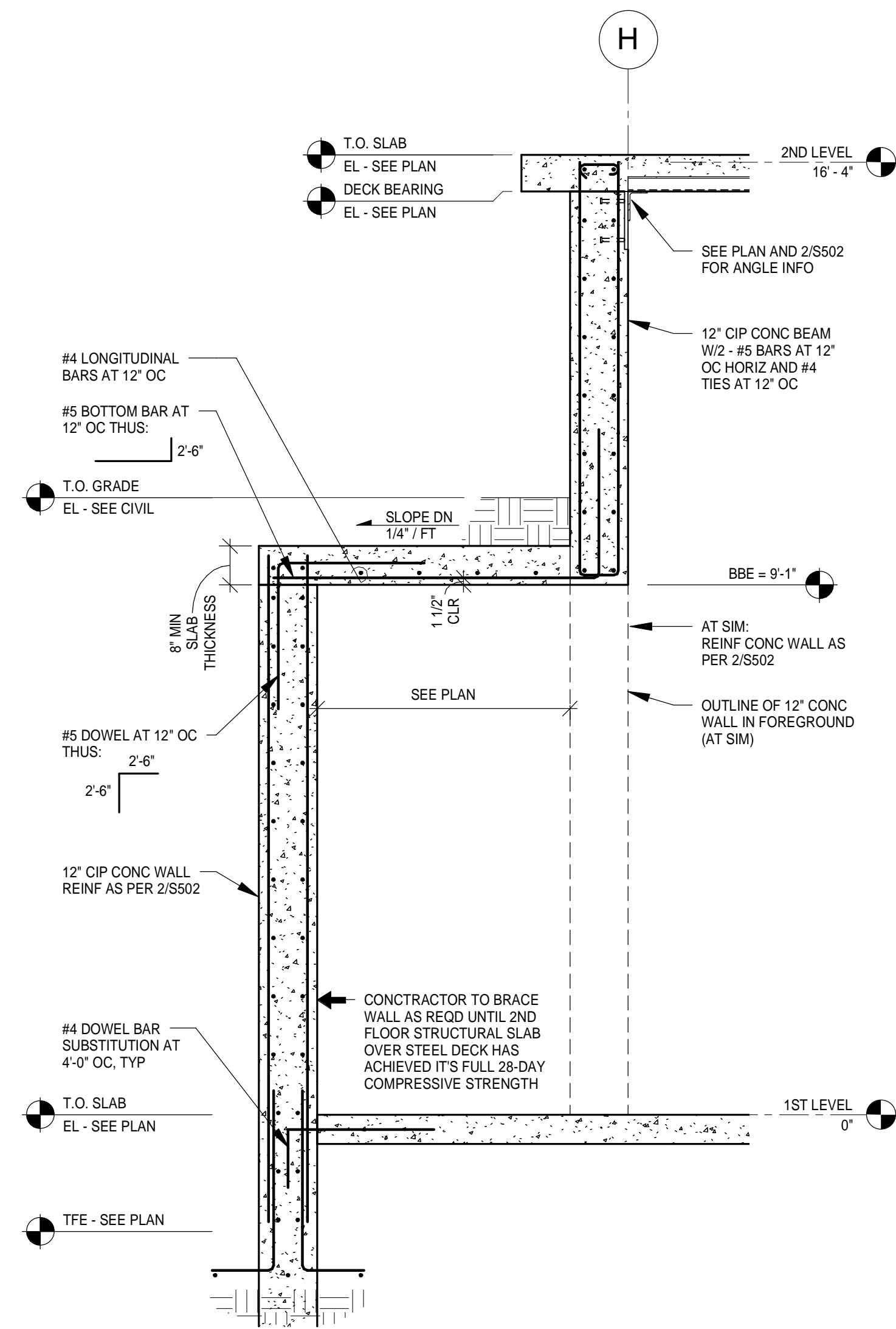




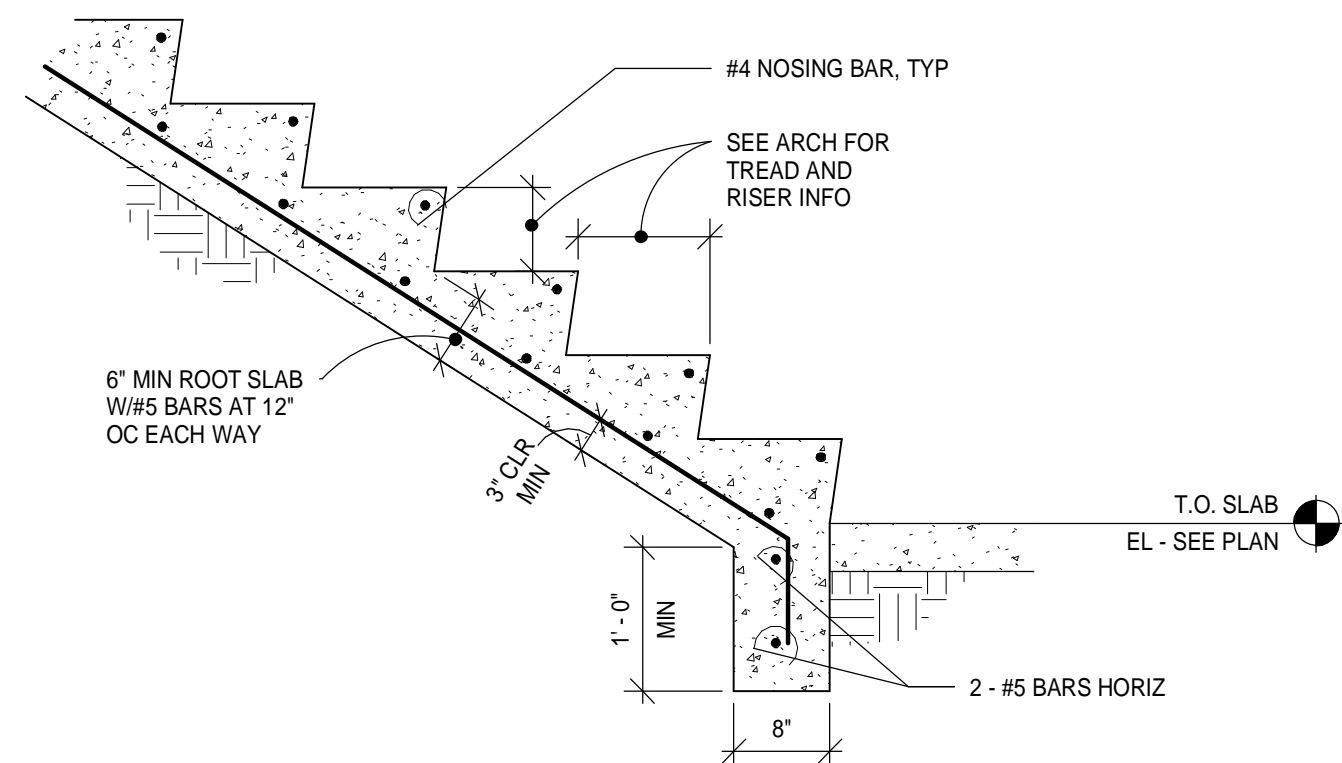
1 SECTION  
1/2" = 1'-0"



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



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



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

**REVISIONS**

NO.	DESCRIPTION	DATE

DATE ISSUED: 04-12-10

REVIEWED BY:

DRAWN BY: SJL

DESIGNED BY: CWB

AEP PROJECT NUMBER

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**STRUCTURAL  
DETAILS**

SHEET NUMBER

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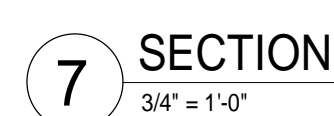
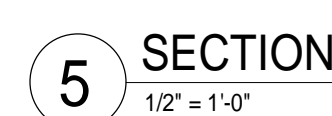
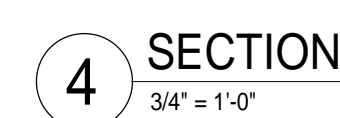












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REVIEWED BY:

DRAWN BY: SJL

DESIGNED BY: CWB

SHEET TITLE

# STRUCTURAL DETAILS

**S704**

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CONSTRUCTION**



**NOT USED**

3 NOT USED  
NO SCALE

4 NOT USED  
NO SCALE

