



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

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VOLUME 1 OF 2



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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.
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DRAWING LIST

- G1-00

COVER SHEET
- G1-01

DRAWING LIST
- G1-02

SYMBOLS & ABBREVIATIONS
- LS-01

FIRST FLOOR LIFE SAFETY PLANS
- LS-02

SECOND FLOOR LIFE SAFETY PLANS
- ARCHITECTURAL
- AS-01

EXISTING SITE PLAN
- AS-02

ARCHITECTURAL SITE PLAN
- A1-10

FIRST FLOOR PLAN
- A1-11

ENLARGED FIRST FLOOR PLAN — AREA A
- A1-12

ENLARGED FIRST FLOOR PLAN — AREA B
- A1-20

SECOND FLOOR PLAN
- A1-21

ENLARGED SECOND FLOOR PLAN — AREA A
- A1-22

ENLARGED SECOND FLOOR PLAN — AREA B
- A1-30

THIRD FLOOR PLAN
- A1-31

ENLARGED THIRD FLOOR PLAN
- A1-40

ROOF PLAN
- A2-11

FIRST FLOOR REFLECTED CEILING PLAN
- A2-12

SECOND FLOOR REFLECTED CEILING PLAN
- A2-13

THIRD FLOOR REFLECTED CEILING PLAN
- A3-01

BUILDING ELEVATIONS
- A3-10

BUILDING SECTIONS
- A3-11

BUILDING SECTIONS
- A3-12

BUILDING SECTIONS
- A3-13

BUILDING SECTIONS
- A3-14

BUILDING SECTIONS
- A4-01

EXTERIOR SYSTEM SHEET — CURTAIN WALL LANDSIDE
- A4-02

EXTERIOR SYSTEM SHEET — CURTAIN WALL AIRSIDE
- A4-03

EXTERIOR SYSTEM SHEET — CURTAIN WALL AIRSIDE
- A4-04

EXTERIOR SYSTEM SHEET — CORE WALL
- A4-05

EXTERIOR SYSTEM SHEET — TUG TUNNEL
- A4-05

EXTERIOR SYSTEM SHEET — CANOPY
- A7-01

INTERIOR ELEVATIONS
- A7-02

INTERIOR ELEVATIONS
- A7-03

INTERIOR ELEVATIONS
- A7-10

INTERIOR SYSTEM SHEET — STAIRS AND ELEVATORS

GENERAL NOTE:

FOR ADA STANDARDS, PLUMBING FIXTURES’ MOUNTING HEIGHTS AND CLEARANCES, SEE AX—XX.

ZONING DATA

- PROJECT LOCATION:

DULUTH INTERNATIONAL AIRPORT
4701 GRINDEN DRIVE
DULUTH, MINNESOTA 55811
- ZONING:

--
- PROPOSED USE:

AIRPORT
- GROSS SITE AREA:

N.A.
- TOTAL BUILDING AREA:

--
- FIRST FLOOR AREA:

--
- SECOND FLOOR AREA:

--
- THIRD FLOOR AREA:

--
- FLOOR AREA RATIO:

--
- BUILDING HEIGHT:

--
- OFF-STREET PARKING:

--
- ON-STREET PARKING:

--
- OFF-STREET LOADING AREAS:

--
- APPLICABLE CODES:

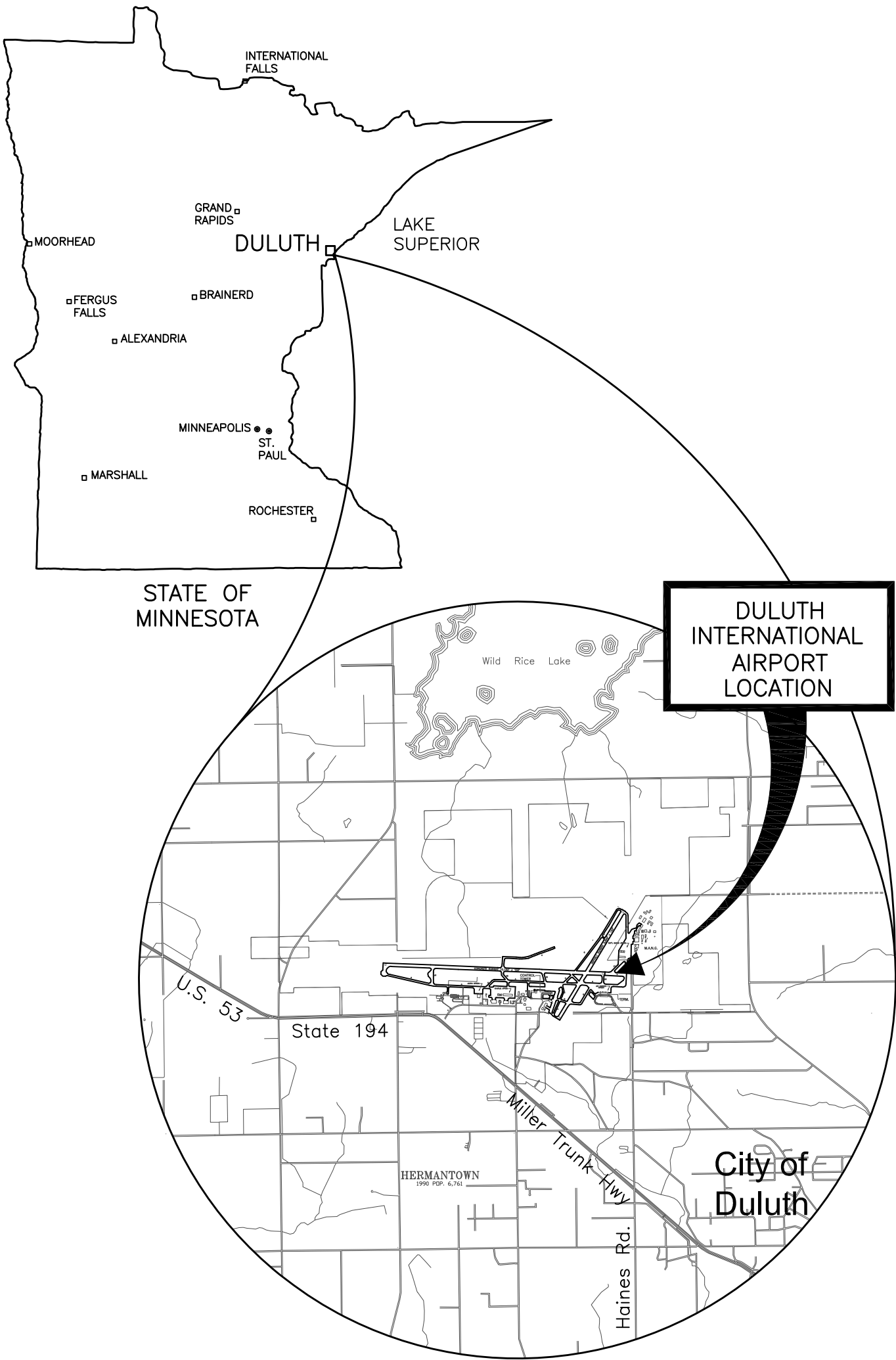
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- OCCUPANCY:

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ACCESSIBILITY NOTES

- A. GENERAL REQUIREMENTS

THIS PROJECT WILL COMPLY WITH ALL IAC 400.310 — NEW CONSTRUCTION.
1. THE ENTRANCE IS ACCESSIBLE PER IAC 400.310(k).
2. ALL PASSENGER ELEVATORS PROVIDED IN A BUILDING OR FACILITY SHALL BE ACCESSIBLE, SHALL SERVE ALL LEVELS OF A BUILDING OR FACILITY, SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH THE ASME A 17.1—1996.
3. ALL DOORS LEADING TO REQUIRED ACCESSIBLE ROOMS AND SPACES SHALL BE A MINIMUM OF 3’-0” WIDE, HAVE LEVER OPERATED HARDWARE (OR EQUAL), HAVE A MINIMUM OPENING FORCE OF 5 LBF, AND FULLY COMPLY WITH IAC 400.310(j).
4. ALL DOORS LEADING TO HAZARDOUS ROOMS WILL COMPLY WITH THE ABOVE AND, IN ADDITION, WILL HAVE KNURLED OPERATING HARDWARE (I.E., ELECTRICAL/TELEPHONE ROOMS).
5. ALL ENVIRONMENTAL CONTROLS AND OPERATING MECHANISMS WILL COMPLY WITH IAC 400.310(r) (FRONT REACH BETWEEN 15” AND 48” AFF).
6. ALL EMERGENCY WARNING ALARMS, WHERE PROVIDED, SHALL BE BOTH AUDIBLE AND VISUAL AND COMPLY WITH IAC 400.310(s). THE VISUAL ALARMS WILL BE FLASHING TYPE WHERE THE FLASHING IS SYNCHRONIZED AND IN COMPLIANCE FOR INTENSITY AND FREQUENCY, ALL TENANT SPACES WILL BE WIRED FOR FUTURE INSTALLATION OF EMERGENCY WARNING ALARMS ON AN AS NEEDED BASIS (SEE SECURITY DRAWINGS).
7. ANY NEW REQUIRED SIGNAGE IN CONTRACT SHALL BE INSTALLED AS REQUIRED PER IAC 400.310(u).
8. TOILET ROOMS SERVING PUBLIC AREAS (I.E., LOVIES, CONCOURSE, ETC.) WILL FULLY COMPLY WITH IAC 400.310(n).



2

SHEET LAYOUT
N.T.S.



1

LOCATION MAP
N.T.S.



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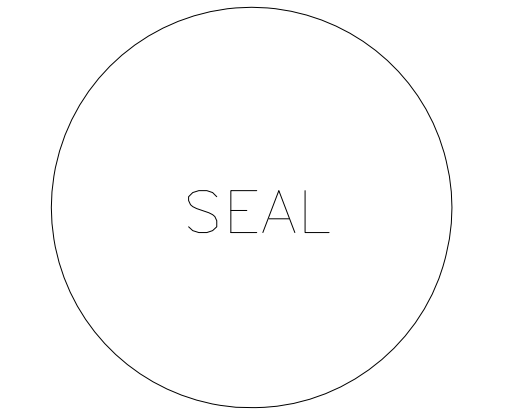
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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02-15-10
REVIEWED BY: SBS/TC
DRAWN BY: MKG/MI
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER
213-1882-091
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SHEET TITLE
**DRAWING
LIST**

SHEET NUMBER
G101

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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
AFF	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	GFRG	GLASS-FIBER-REINFORCED CONCRETE	QTY	QUANTITY
APT	APARTMENT	GL	GLASS-FIBER-REINFORCED GYPSUM	R	RISER
ARCH	ARCHITECT	GRAN	GRANITE	RAD	RADIAN/RADIUS
ASKLR	AUTOMATIC SPRINKLER	GYP PLAS	GYP SUM PLASTER	RBR	RUBBER
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	HB	HOSE BIBB	RCP	REFLECTED CEILING PLAN
ATM	AUTOMATIC TELLER MACHINE	HCWD	HOLLOW CORE WOOD DOOR	RD	ROOF DRAIN
AV	AUDIO VISUAL	HDW	HARDWARE	REF	REFERENCE
		HMD	HOLLOW METAL DOOR	REINF	REINFORCE
BALC	BALCONY	HORIZ	HORIZONTAL	REQD	REQUIRED
BD	BOARD	HPT	HIGH POINT	REST	RESTROOM
BLDG	BUILDING	HR	HOUR(S)	REV	REVISION
BLW	BELOW	HSKPG	HOUSEKEEPING	RH	RIGHT HAND
B/	BOTTOM OF	HT	HEIGHT	RM	ROOM
BR	BEDROOM	ID	INSIDE DIAMETER	RO	ROUGH OPENING
BRZ	BRONZE	IN	INCH(ES)	S	SOUTH
BSMT	BASEMENT	INCAN	INCANDESCENT	SCWD	SOLID CORE WOOD DOOR
BTWN	BETWEEN	INCL	INCLUDED	SECT	SECTION
		INFO	INFORMATION	SHT	SHEET
C TO C	CENTER TO CENTER	INSUL	INSULATION	SIM	SIMILAR
CBB	CEMENTITIOUS (BACKER) BOARD	INT	INTERIOR	SLNT	SEALANT
CD	CONTRACT DOCUMENTS	JC	JANITOR'S CLOSET	SPEC	SPECIFICATION
CEM PLAS	CEMENT PLASTER	JT	JOINT	SST	STAINLESS STEEL
CJ	CONTROL JOINT	L	ANGLE	ST	STAIR
CL	CENTER LINE	KIT	KITCHEN	STC	SOUND TRANSMISSION CLASS
CLG	CEILING	L	LINEN CLOSET	STD	STANDARD
CLO	CLOSET	L	LAMINATE	STL	STEEL
CLR	CLEAR	LAU	LAUNDRY	STN	STAIN
CMU	CONCRETE MASONRY UNIT	LAV	LAVATORY	STOR	STORAGE
CNCL	CONCEALED	LBS	POUND	STRUCT	STRUCTURAL
COL	COLUMN	LC	LAUNDRY CHUTE	SUSP	SUSPEND
CONC	CONCRETE	LDG	LANDING	SVCE	SERVICE
CONSTR	CONSTRUCTION	LH	LEFT HAND	T	TREAD
CONT	CONTINUE	LKR	LOCKER	TBA-#	TOILET BATH ACCESSORIES
CORR	CORRIDOR	LL	LOW LEVEL	TBD	TO BE DETERMINED
CPT	CARPET	LMST	LIMESTONE	TEL	TELEPHONE
CT	CERAMIC TILE	LPT	LOW POINT	THK	THICKNESS
CTR	CENTER	LR	LIVING ROOM	T/	TOP OF
		M	MEN'S	TYP	TYPICAL
DET	DETAIL	M	MACHINE	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

- THE BEST ACCEPTED TRADE PRACTICES AND STANDARDS.
- <ERS SPECIFICATIONS AND RECOMMENDATIONS, AND
- 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 AXX 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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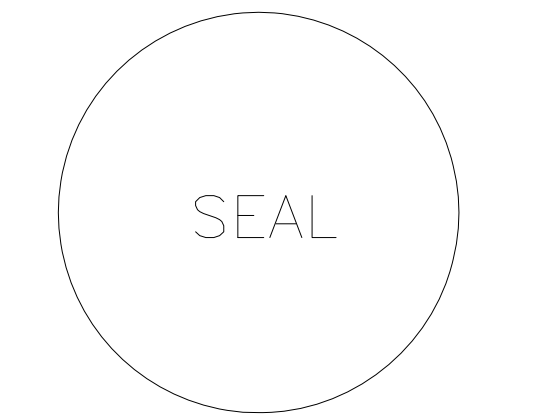


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REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 02-15-10
REVIEWED BY: SBS/TC
DRAWN BY: MKG/MI
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER
213-1882-091
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SHEET TITLE
ABBREVIATIONS

SHEET NUMBER
G1-02

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LINETYPE LEGEND

ABOVE / IN FRONT OF	
BEYOND/BELOW HEAVY	
BEYOND/BELOW LITE	
WALL CENTERLINES	
STRUCTURAL CENTERLINES	
DEMOLITION	
EXISTING	
PROPERTY LINE	
FIRE RATING - 1 HR.	
FIRE RATING - 2 HR.	
FIRE RATING - 3 HR.	
FIRE RATING - 4 HR.	

MATERIALS LEGEND

ITEM	DESIGNATION	ITEM	DESIGNATION	ITEM	DESIGNATION
EARTH CRUSHED ROCK GRAVEL		TERRA COTTA UNGLAZED		SEALANT AND BACKER ROD	
EARTH UNDISTURBED		ALUMINUM AND OTHER METALS		WATERPROOFING MEMBRANE	
EARTHWORK COMPACTED FILL		BRONZE BRASS		GLASS MIRRORS	
SAND		STEEL		GLASS ELEVATION MIRRORS ELEVATION	
BRICK COMMON/FACE		SHEET METAL AND ALL METALS		CARPET AND PAD	
CMU		PARTICLEBOARD WOODWORK ARCHITECTURAL		GYPSUM BOARD FINISH	
CONCRETE		PLYWOOD		PLASTER FINISH WITH METAL LATH	
GRANITE STONE		WOOD BLOCKING SHIM		TERRAZZO FINISH	
GROUT		WOOD FINISH		TILE ACOUSTICAL CEILING	
LIMESTONE		WOOD FRAMING CONTINUOUS		WOOD FLOORING	
MARBLE STONE		GASKET FIREPROOFING			
STONE CAST		INSULATION LOOSE FILL			
TERRA COTTA GLAZED		INSULATION RIGID BOARD			

DOOR DESIGNATION

FIRE RATING LEGEND	
A	3 HR (CLASS A)
B	90 MIN. (CLASS B)
C	60 MIN. (CLASS B)
D	45 MIN. (CLASS C)
E	20 MIN.
N	NON RATED

FIRE RATING
DOOR NUMBER
DOOR HARDWARE SET

SYMBOLS LEGEND

ITEM	SYMBOL	ITEM	SYMBOL WITHOUT SHEET DESIGNATION
DRAWING TITLE		PARTIAL BUILDING SECTION	
ROOM NUMBER		FULL BUILDING SECTION	
ROOM NUMBER WITH KT/IT		EXTERIOR ELEVATION	
MATERIAL CHANGE		INTERIOR ELEVATION	
F F & E		DETAIL	
ELEVATION CHANGE			
DEVICE NUMBER			
INTERIOR ELEVATION			
SPOT ELEVATION			
ELEVATION REFERENCE VERTICAL			
DOOR NUMBER			
WINDOW/ GLAZING NUMBER			
NOTE NUMBER			
WALL TYPE			
NORTH ARROW			
NORTH ARROW			
TRUE NORTH ARROW			

ITEM	SYMBOL WITH SHEET DESIGNATION
PARTIAL BUILDING SECTION	
FULL BUILDING SECTION	
EXTERIOR ELEVATION	
INTERIOR ELEVATION	
DETAIL	
ELEVATION DETAIL	
SECTION DETAIL	



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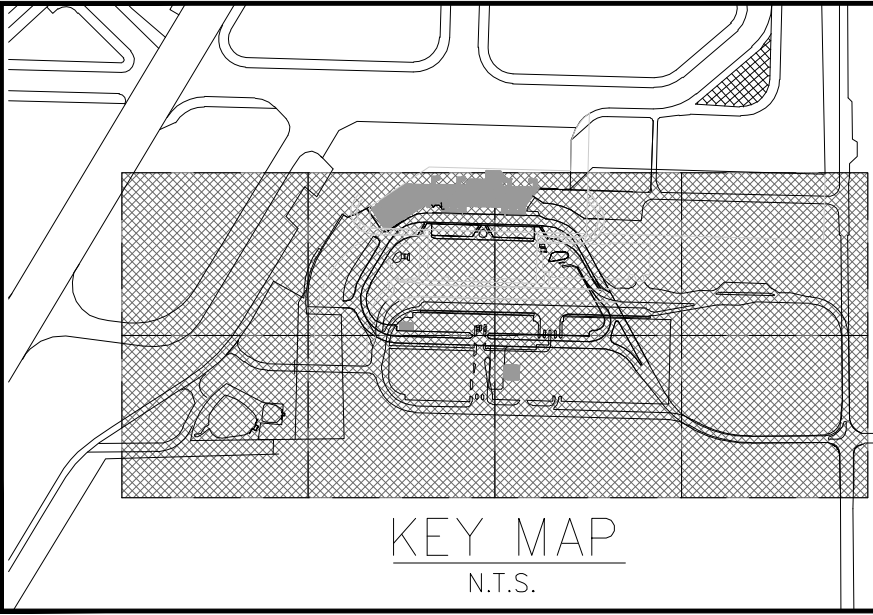
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SHEET TITLE
SYMBOLS

SHEET NUMBER
G1-03

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PHASE 1 LANDSCAPING

KEY

	MEADOW		SHADE TREE
	PLANTING BEDS		ORNAMENTAL TREE
	GRAVEL		EVERGREEN TREE
			LIGHT POLE



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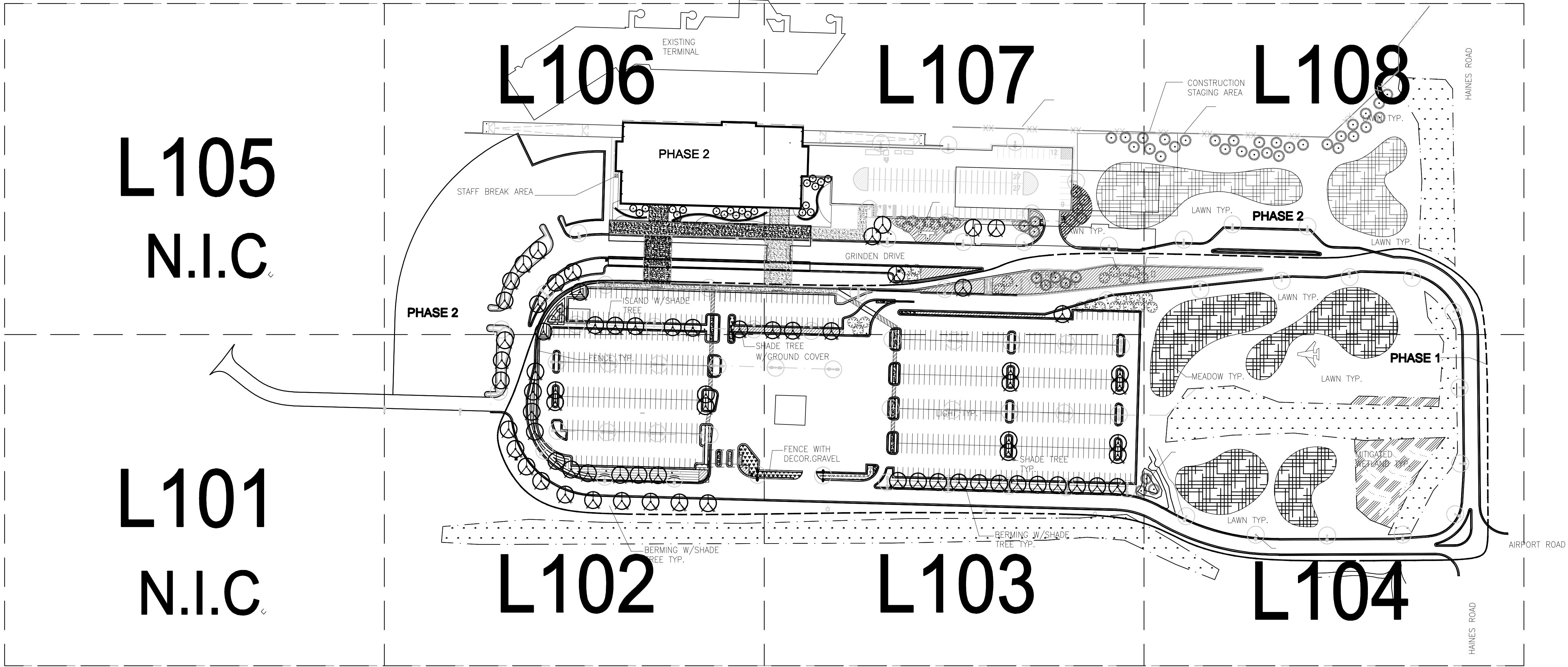
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NO.	DESCRIPTION	DATE

DATE ISSUED: 2-12-2010
REVIEWED BY: MMA
DRAWN BY: SMW
DESIGNED BY: MMA
AEP PROJECT NUMBER
213-1882-091
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SHEET TITLE
LANDSCAPE
OVERALL
PLAN

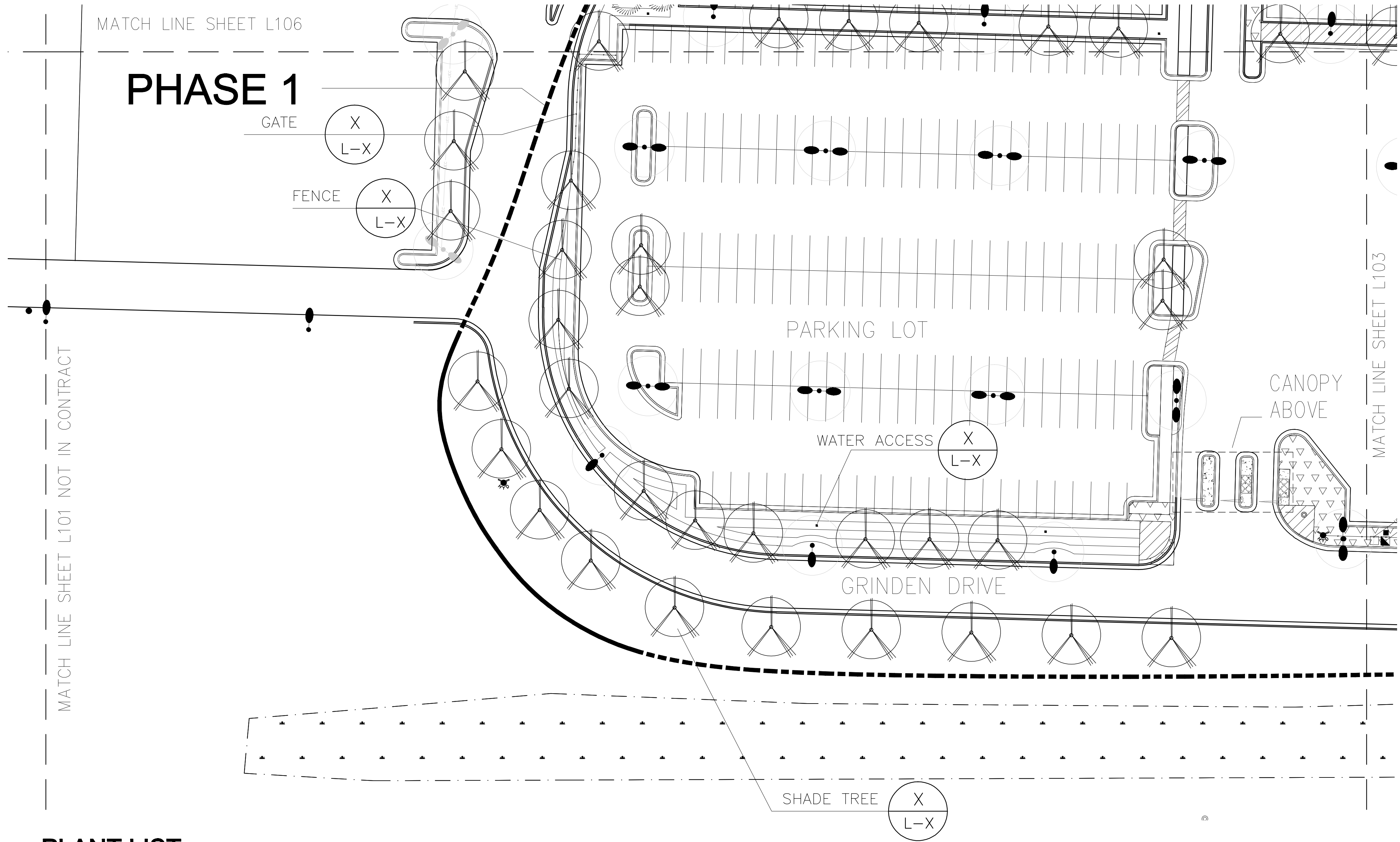
SHEET NUMBER
L100
OF

60% NOT FOR
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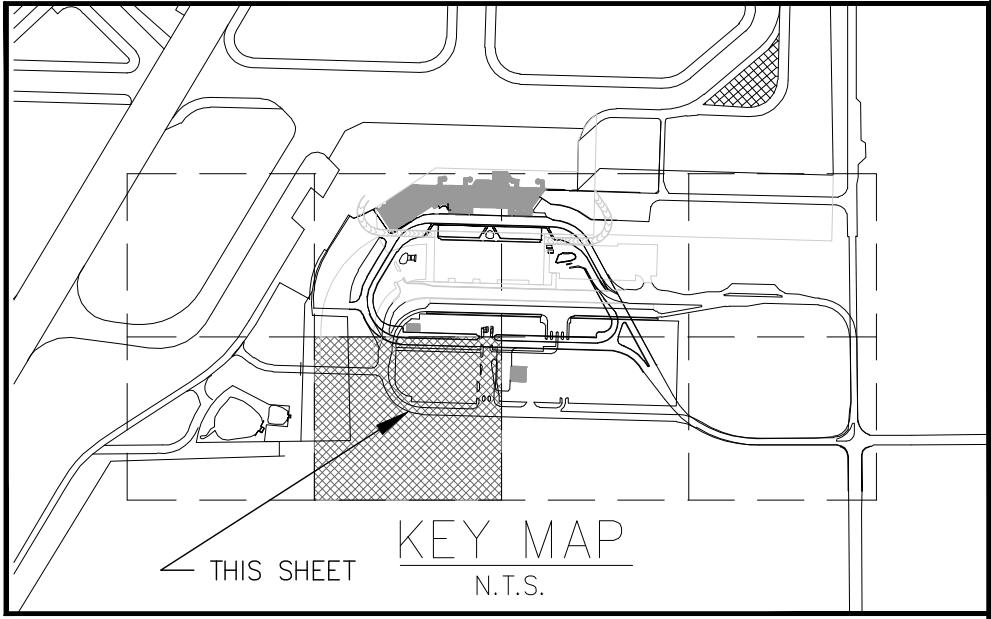


SITE PLAN

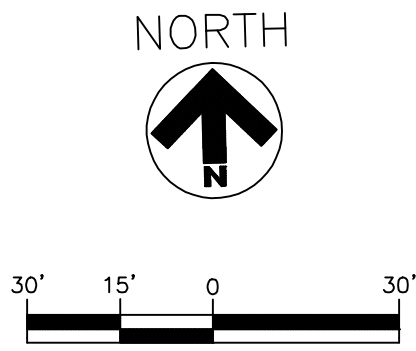
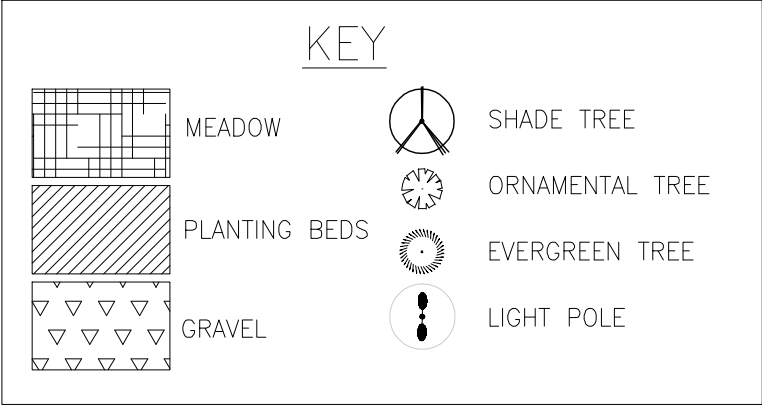




PLANT LIST



PHASE 1 LANDSCAPING



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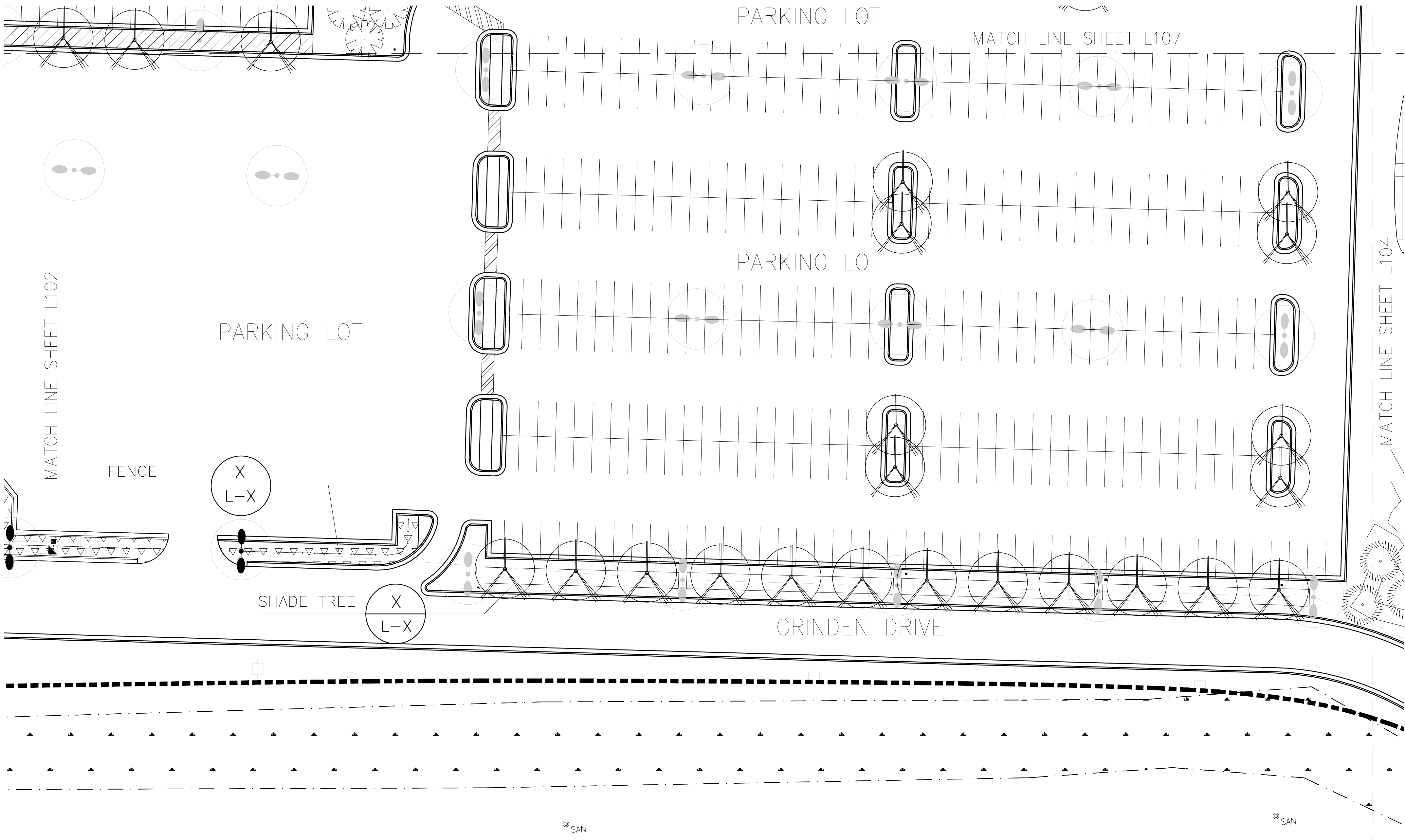
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SHEET TITLE
LANDSCAPE
PLAN
(AREA 2)

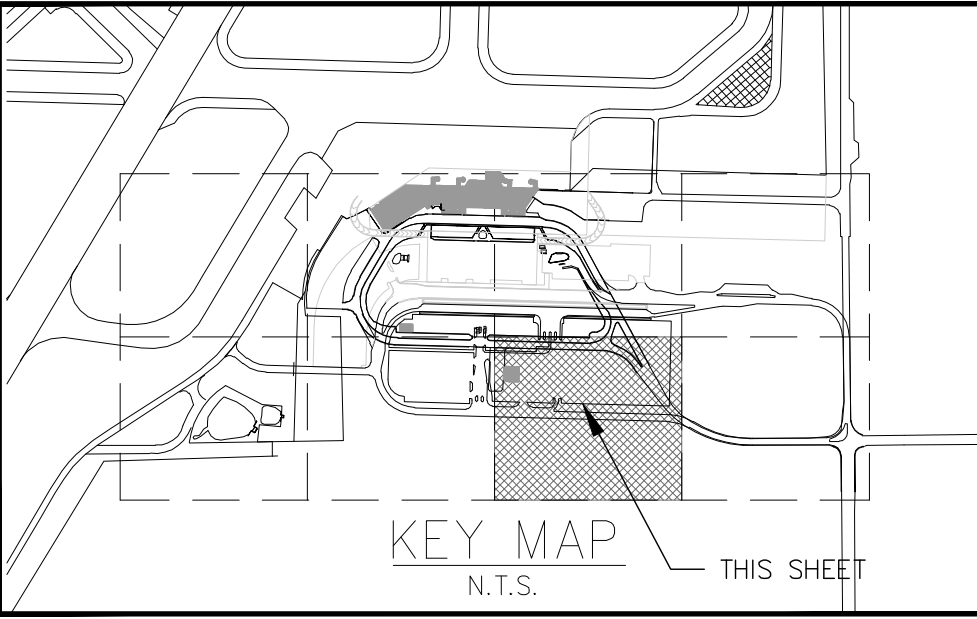
OF
SHEET NUMBER
L102

60% NOT FOR
CONSTRUCTION

NOTE: L101 NOT IN CONTRACT



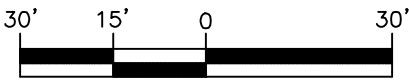
PLANT LIST



PHASE 1 LANDSCAPING

KEY			
	MEADOW		SHADE TREE
	PLANTING BEDS		ORNAMENTAL TREE
	GRAVEL		EVERGREEN TREE
			LIGHT POLE

NORTH



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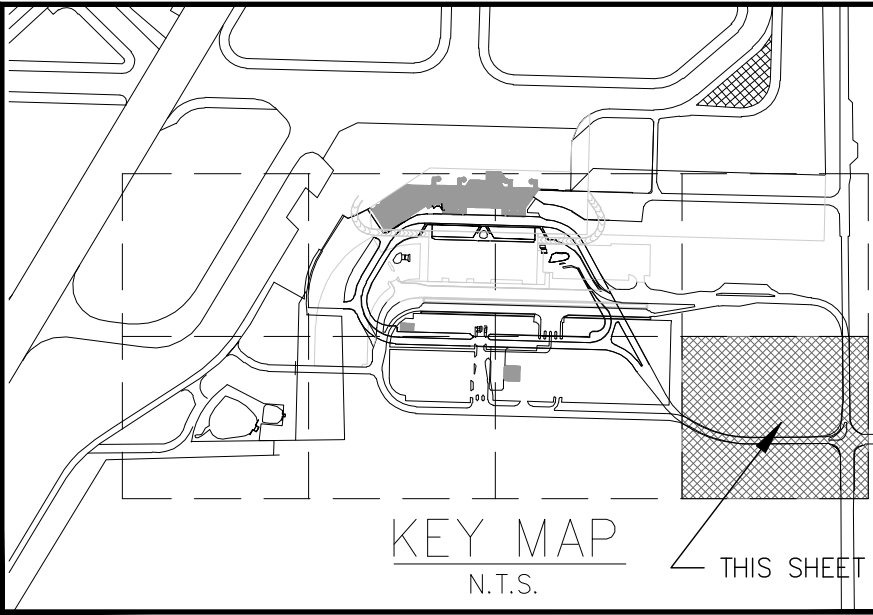
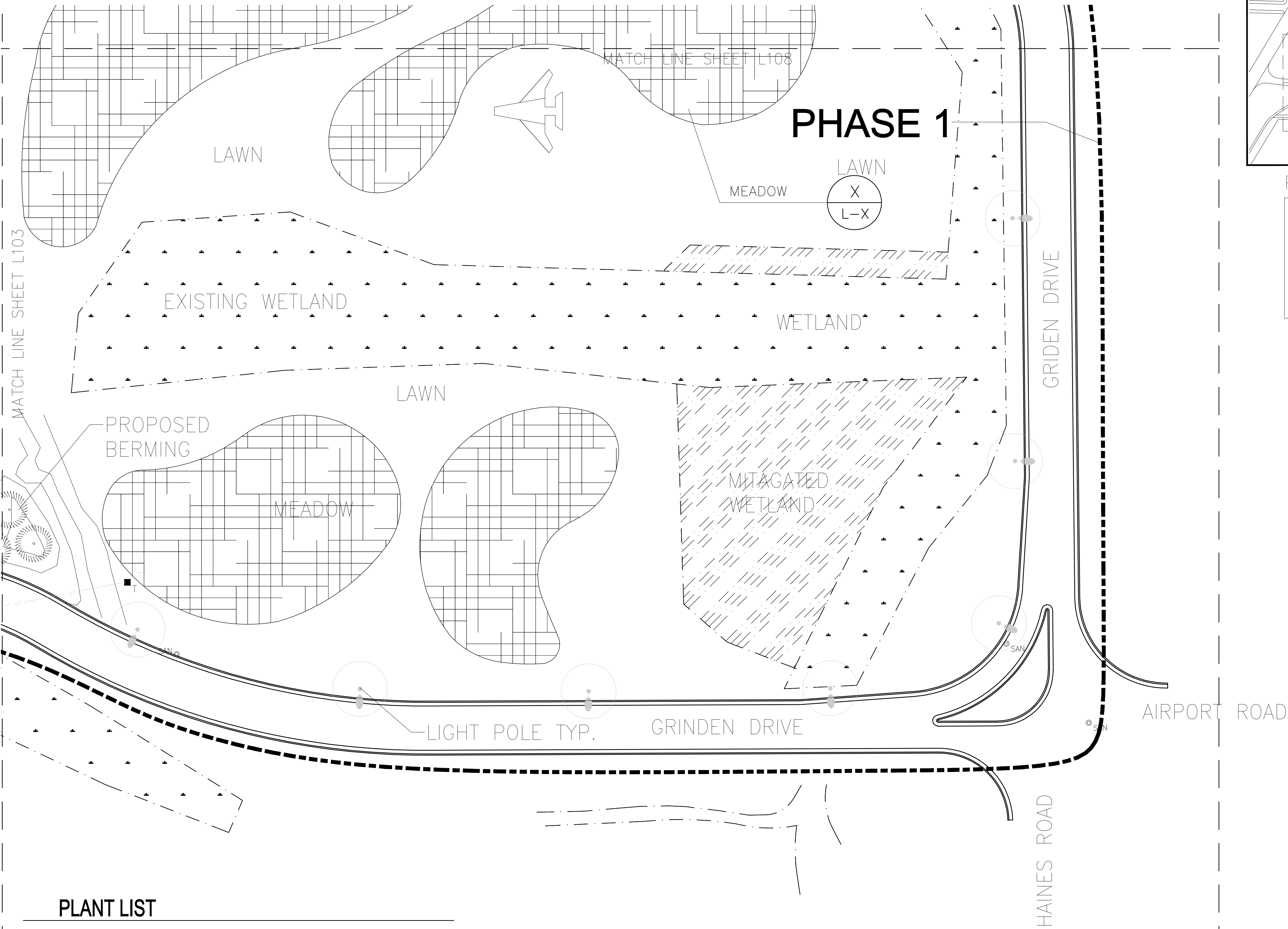
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SHEET TITLE
LANDSCAPE
PLAN
(AREA 3)

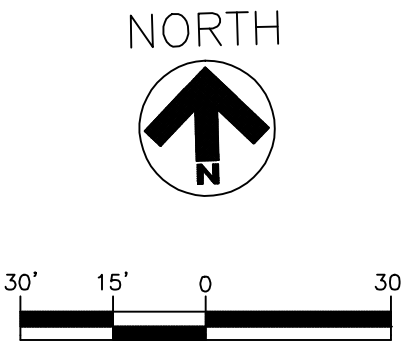
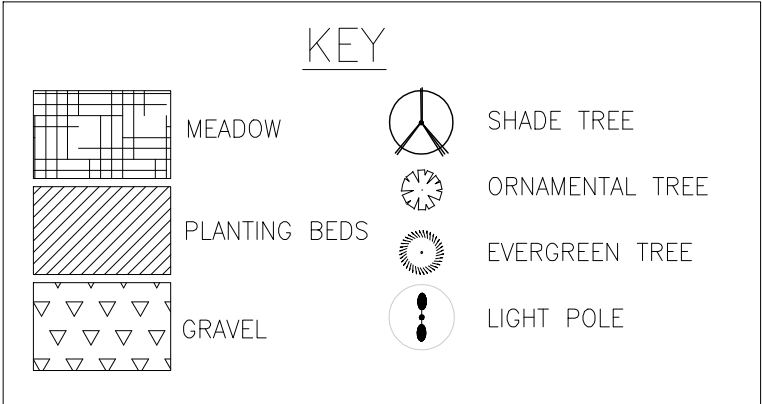
0 OF 0

SHEET NUMBER
L103

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DRAWN BY: JJB
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SHEET TITLE

LANDSCAPE
PLAN
(AREA 4)

OF

SHEET NUMBER

L104

60% NOT FOR
CONSTRUCTION

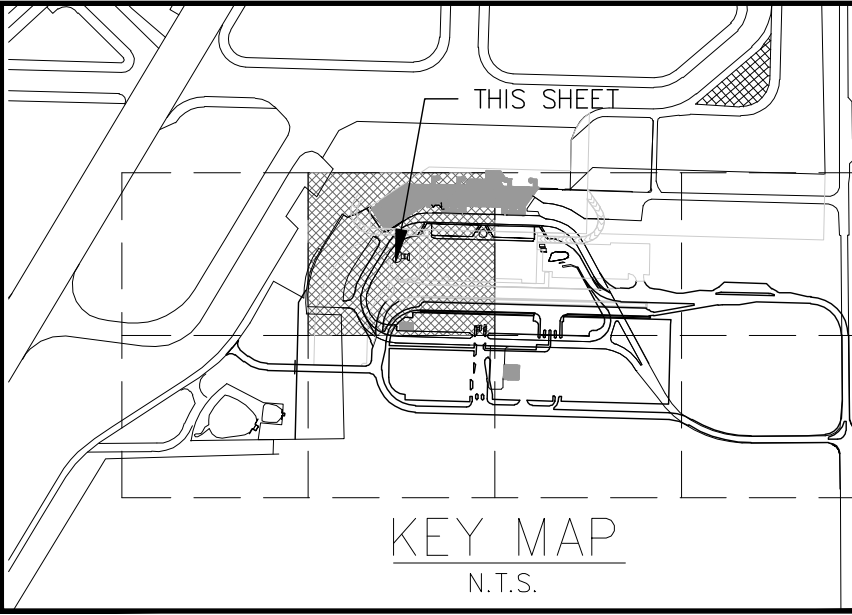
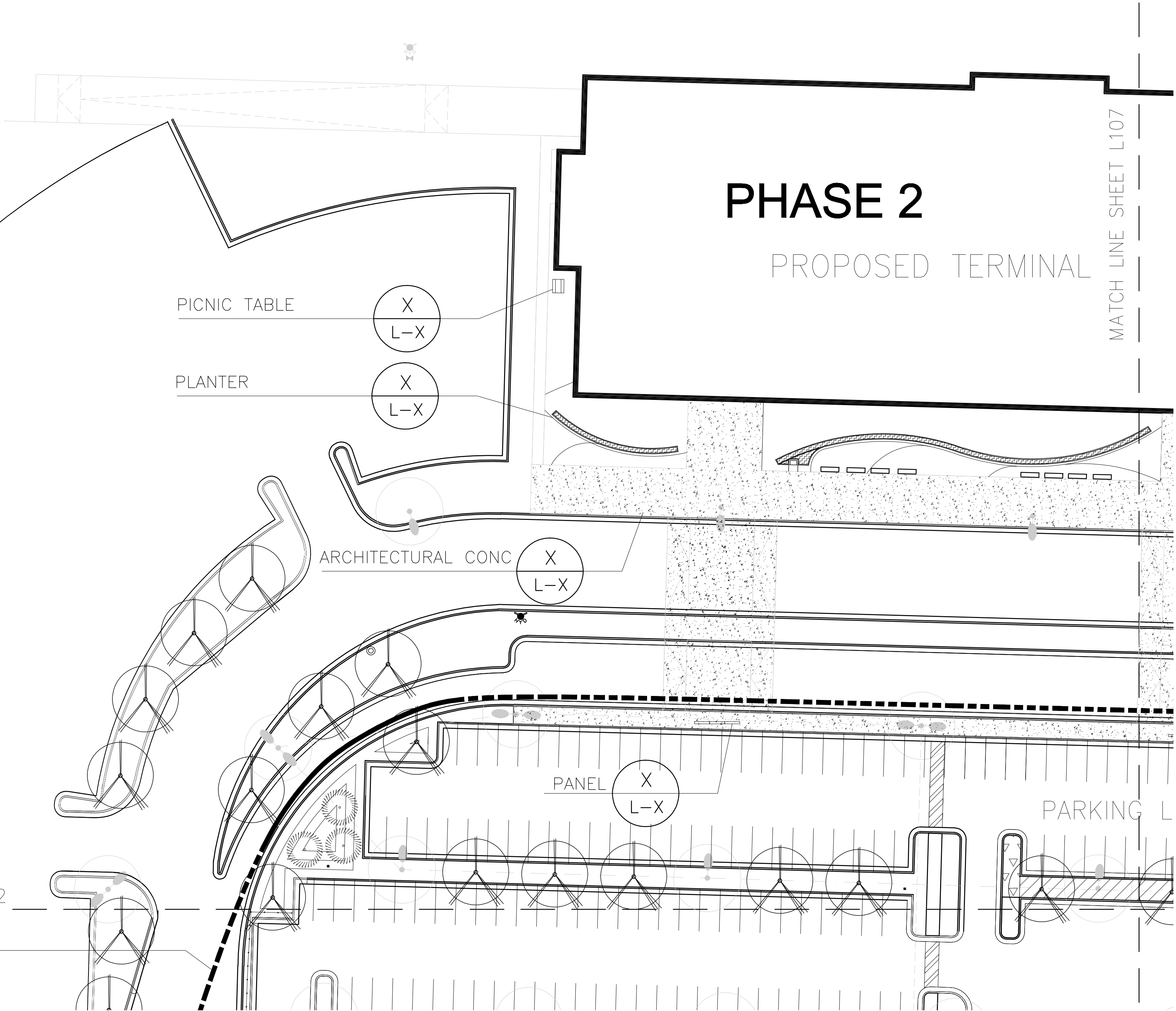
MATCH LINE SHEET L105 NOT IN CONTRACT

PHASE 2

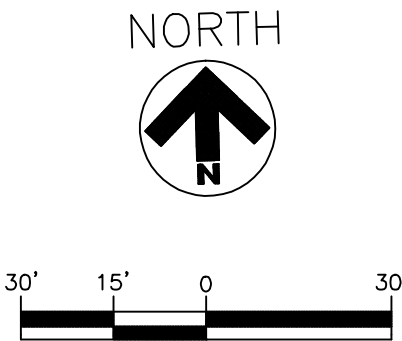
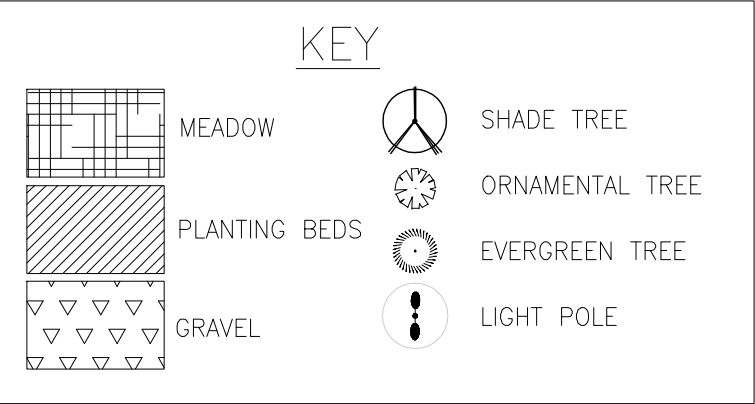
MATCH LINE SHEET L102

PHASE 1

PLANT LIST



PHASE 1 LANDSCAPING



NOTE: L105 NOT IN CONTRACT



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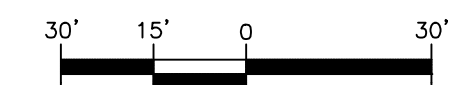
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SHEET TITLE
LANDSCAPE
PLAN
(AREA 6)

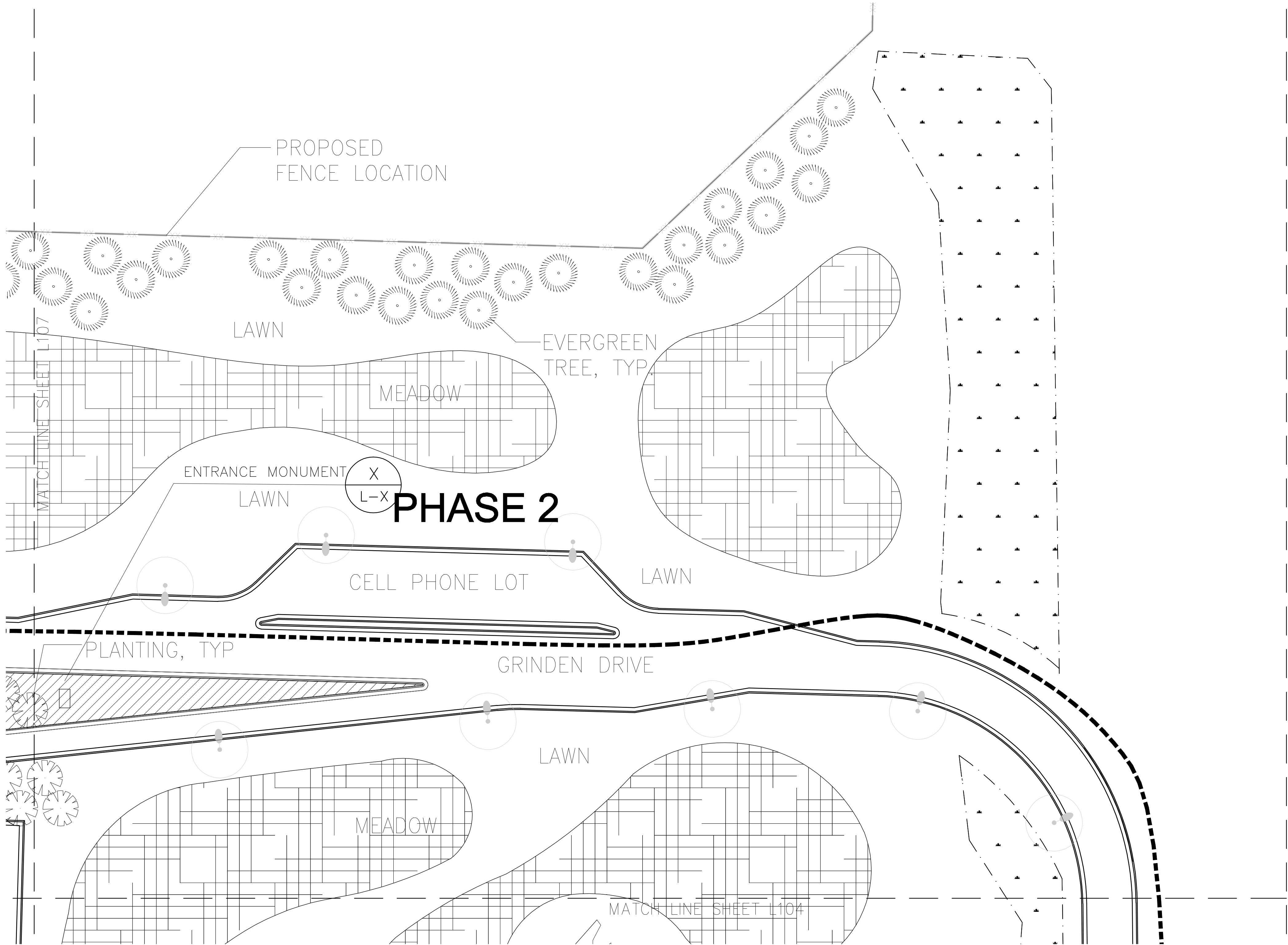
OF

SHEET NUMBER
L106

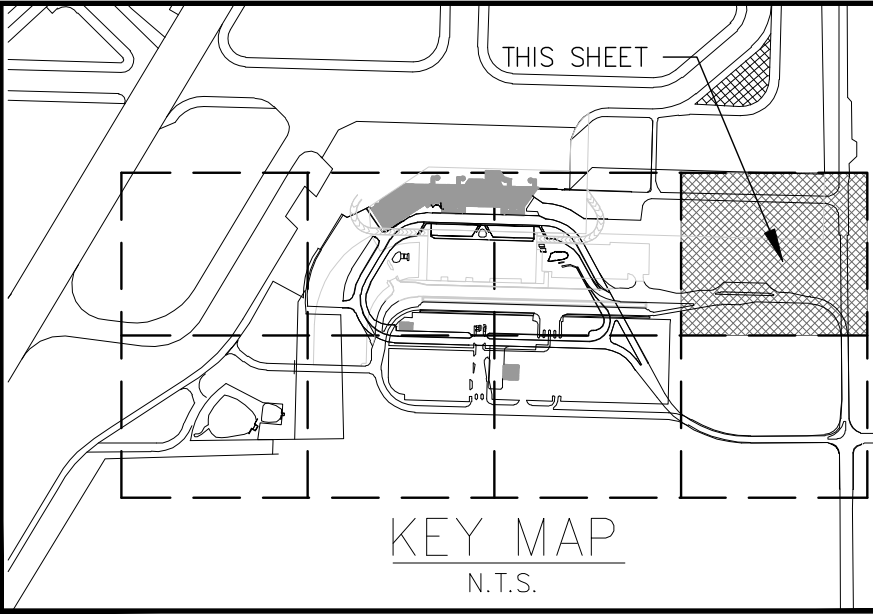
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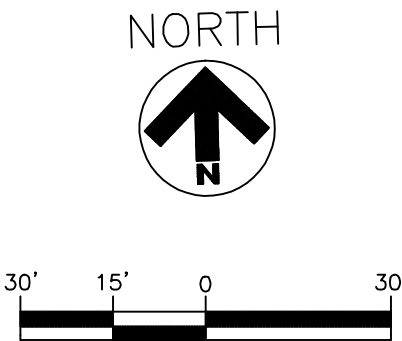
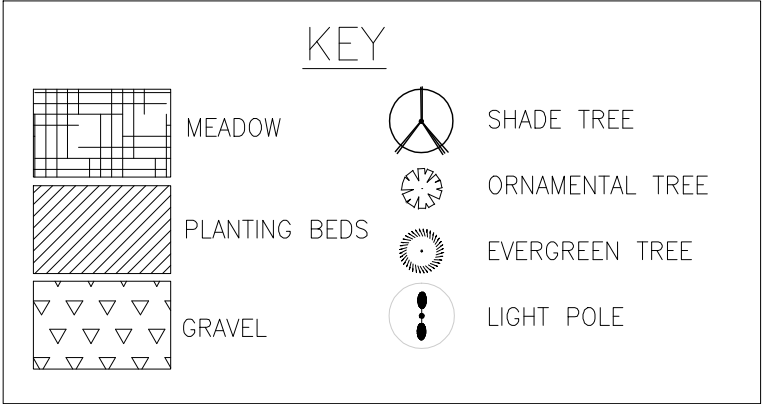
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SHEET TITLE

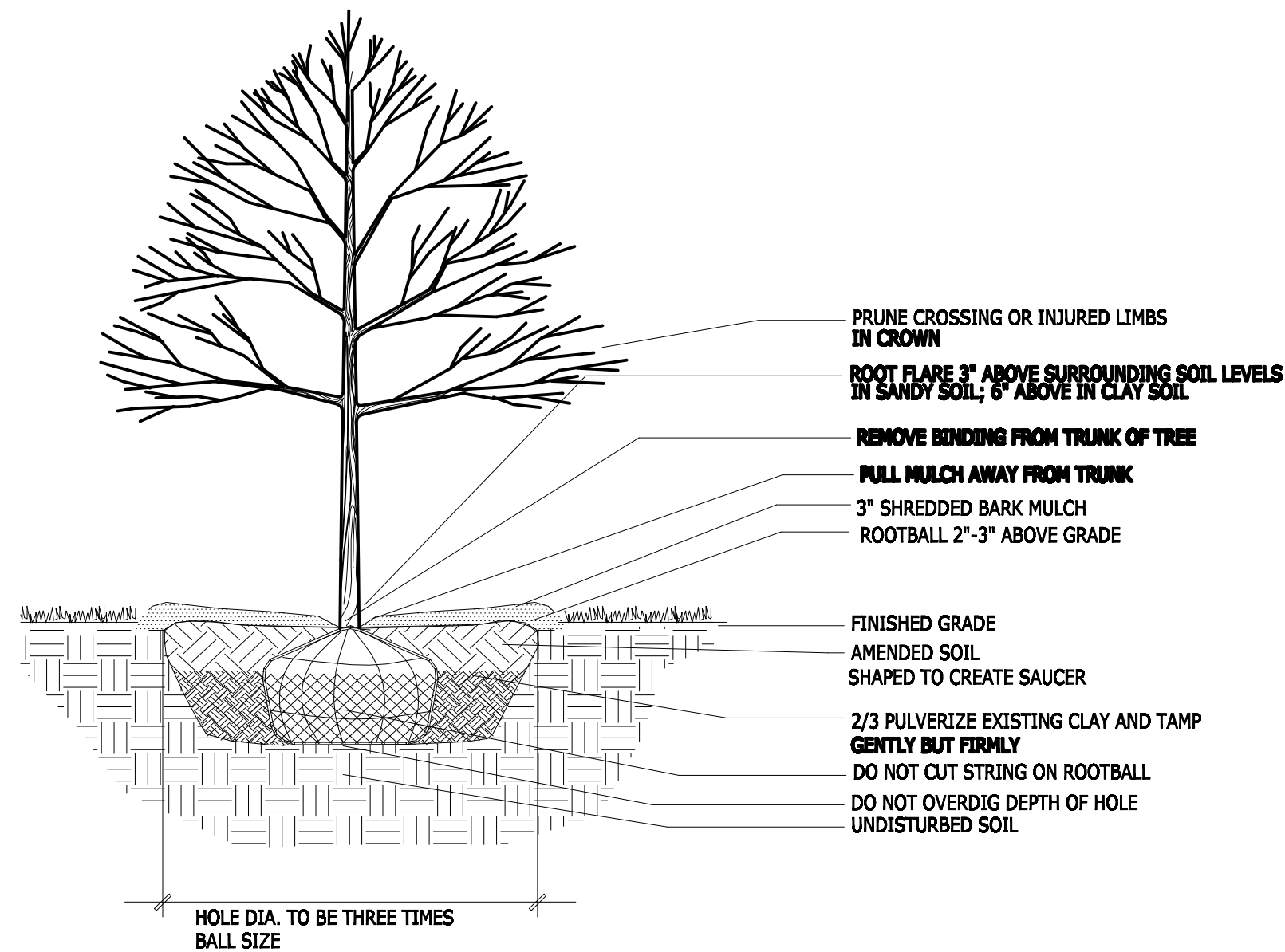
LANDSCAPE
PLAN
(AREA 8)

OF

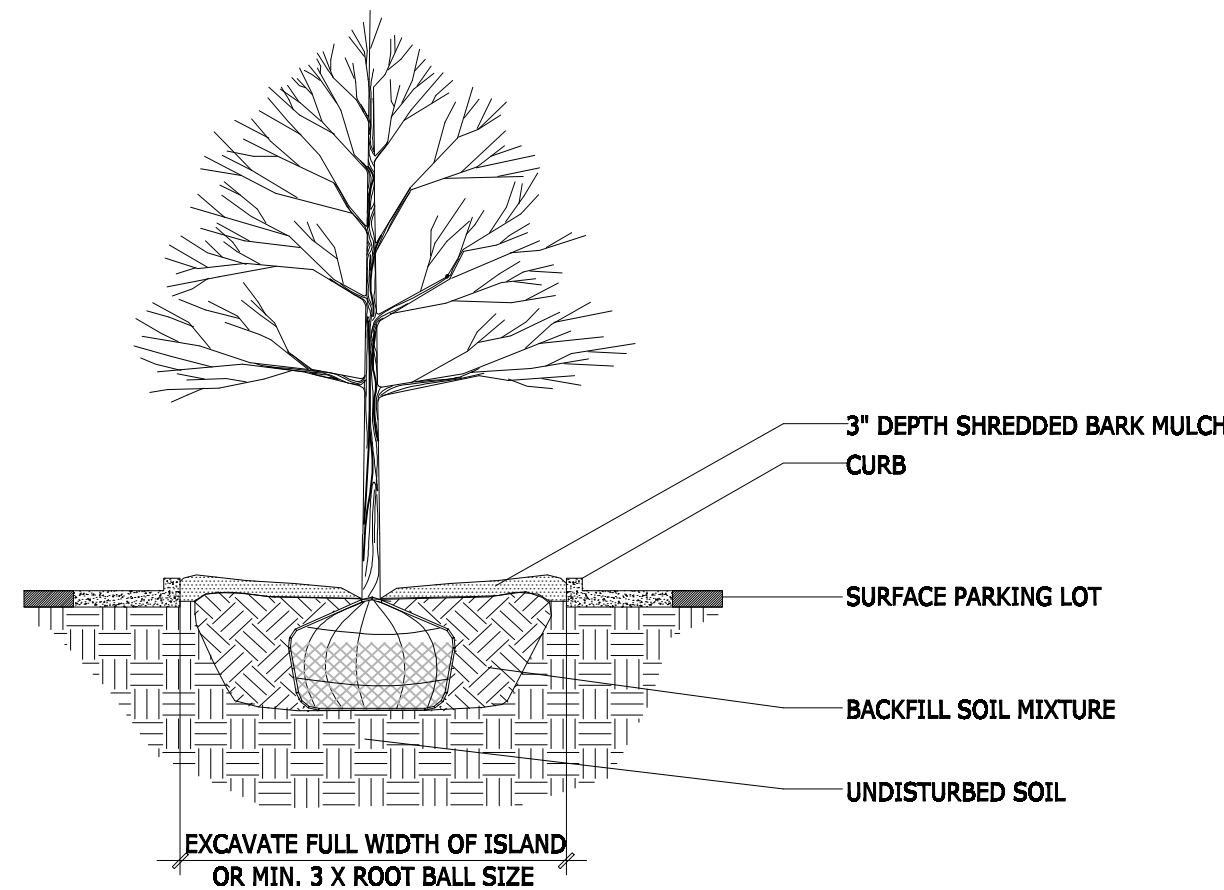
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L108

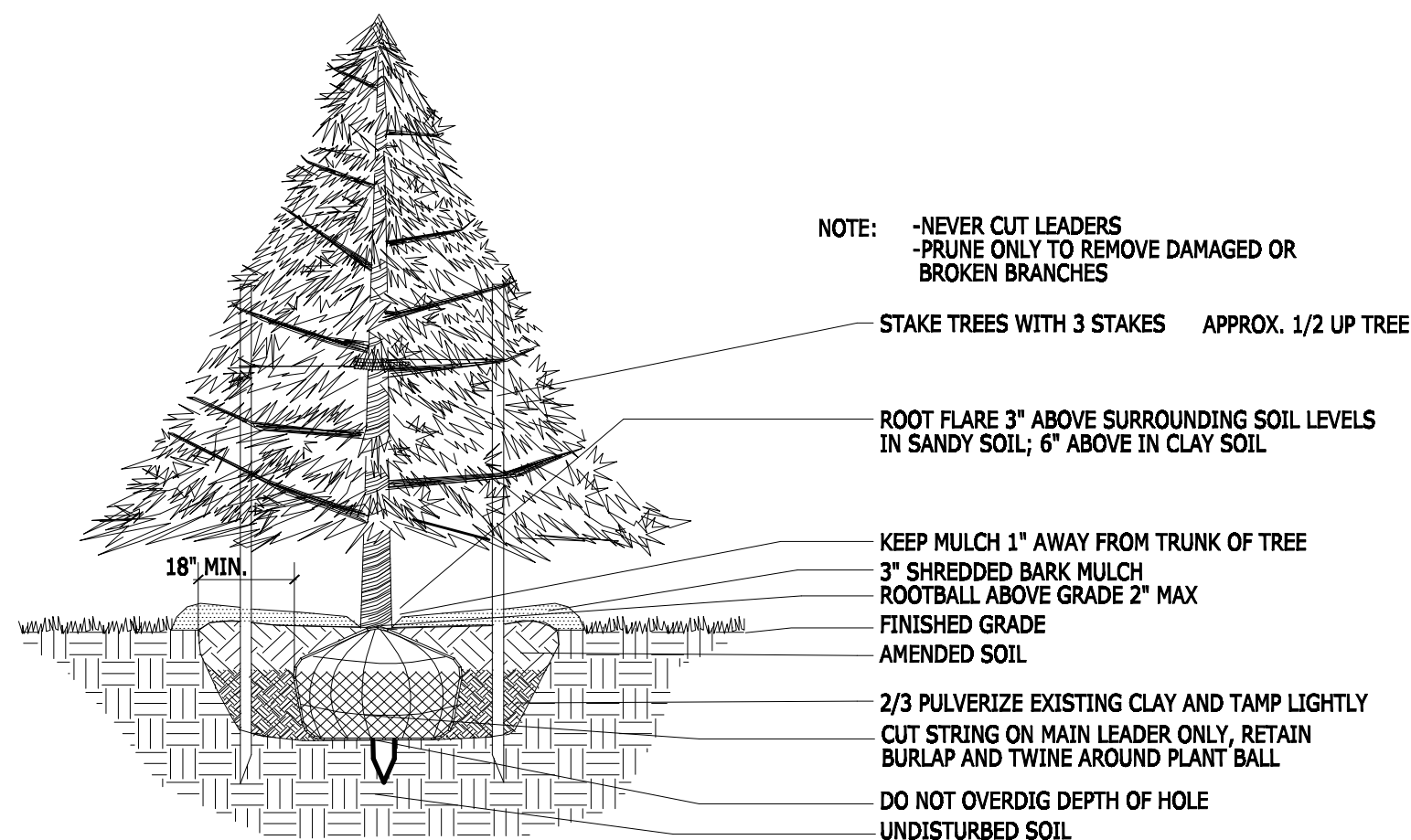
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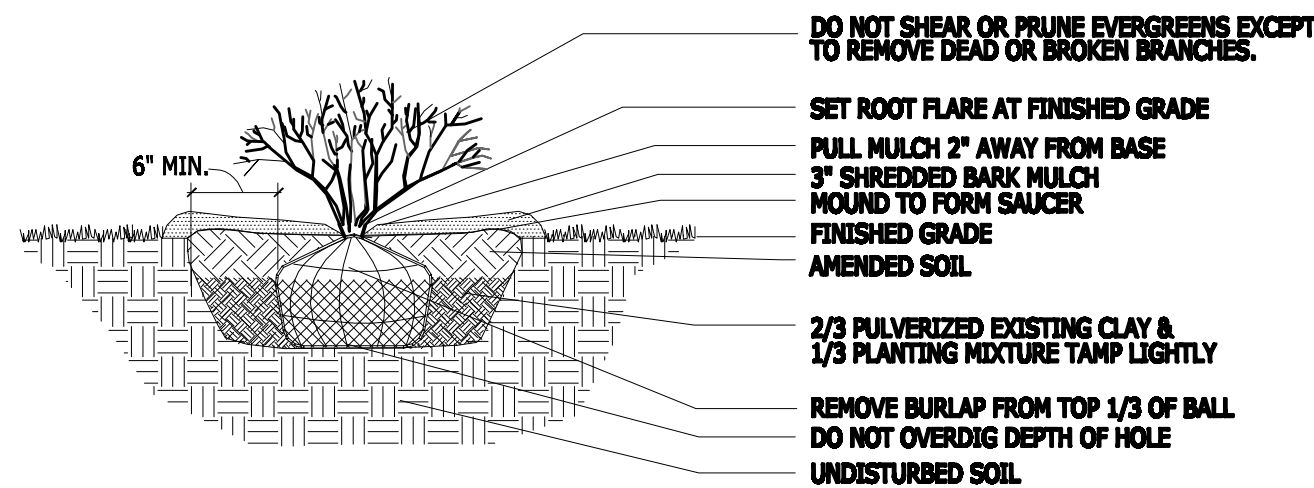
x L109 SHADE TREE



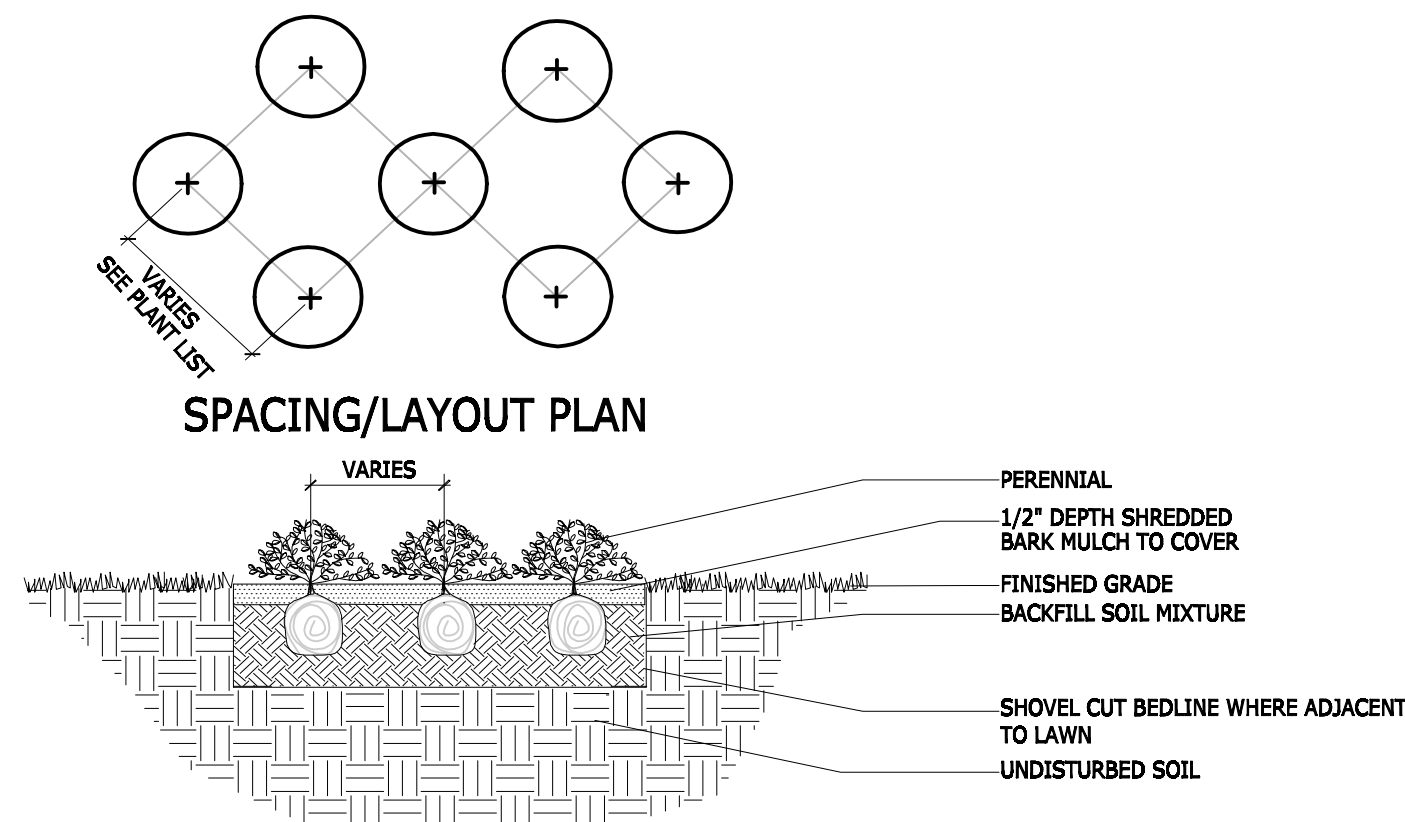
x L109 SHADE TREE IN PARKING LOT ISLAND



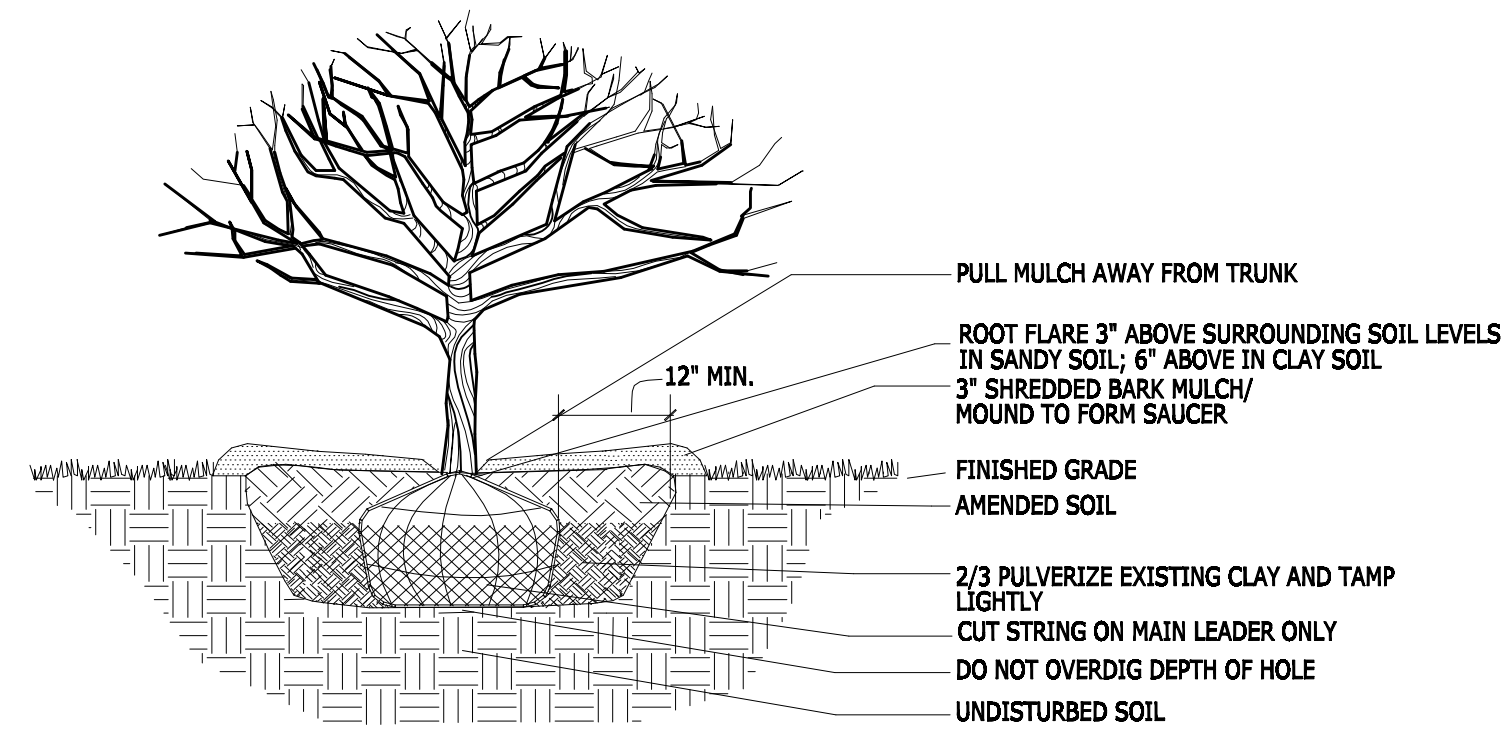
x L109 STAKED EVERGREEN W/ STAKES N.T.S.



x L109 SHRUB PLANTING

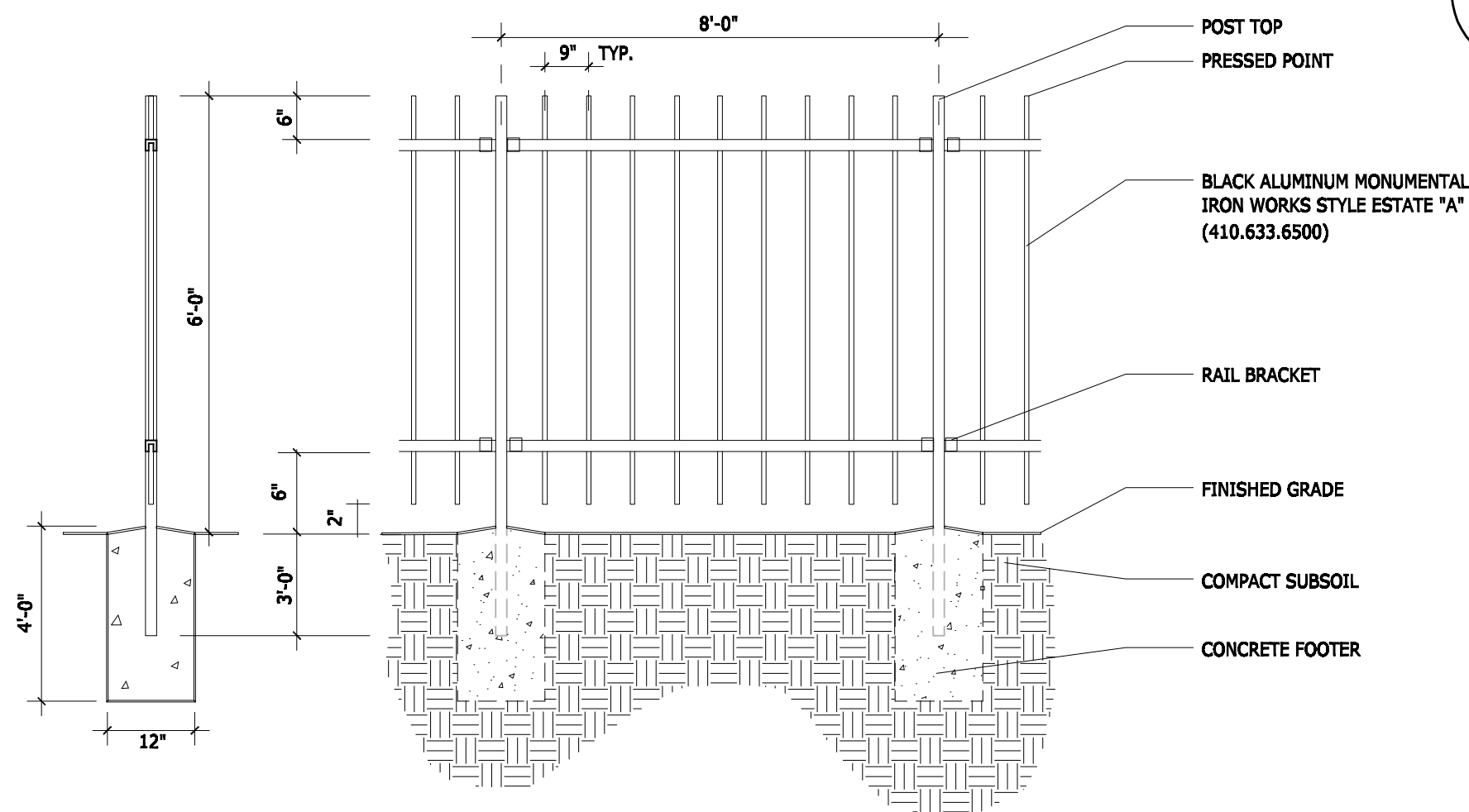


x L109 PERENNIAL PLANTING



x L109 ORNAMENTAL TREE

TO BE DETERMINED



x L109 METAL FENCE TO BE DETERMINED

x L109 FLAG POLE N.T.S.

TO BE DETERMINED

x L109 PANEL N.T.S.

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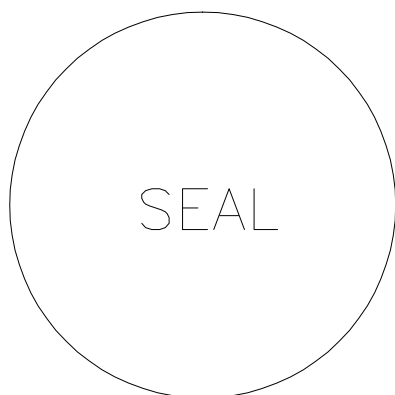
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SHEET TITLE
LANDSCAPE NOTES
AND DETAILS

SHEET NUMBER
L109

60% NOT FOR
CONSTRUCTION

TO BE DETERMINED

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

TO BE DETERMINED

1

L110

 FENCE SECTION

TO BE DETERMINED

1

L110

 ENTRANCE MONUMENT



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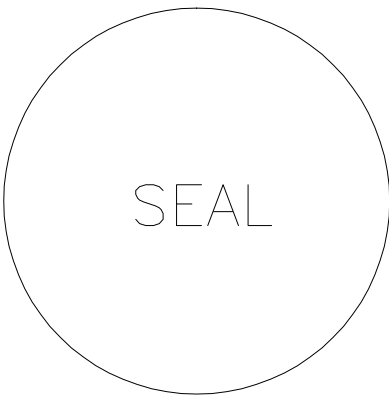
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11 E Superior Street Suite 340, Duluth MN 55802
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M/E/PFP Engineers:
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Landscape Consultants:
APPOLD DESIGN
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TEL: (218) 591-5079



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DRAWN BY: SMW
DESIGNED BY: MMA

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213-1882-091

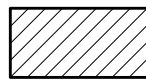
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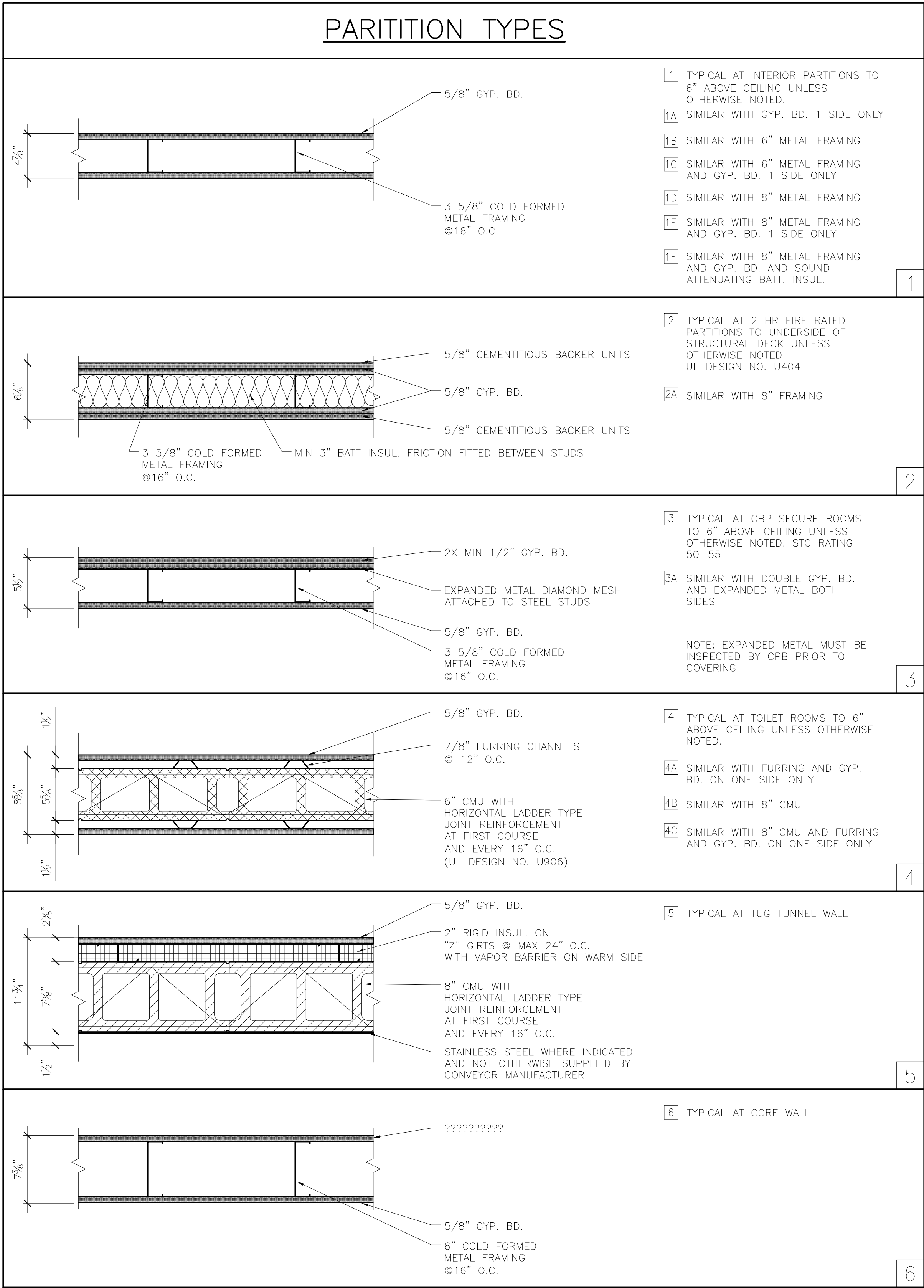
SHEET TITLE
LANDSCAPE NOTES
AND DETAILS

SHEET NUMBER
L110

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MATERIALS LEGEND

	BRICK VENEER		BATT INSULATION
	CONCRETE		CMU
	WOOD BLOCKING		GYPSUM BOARD



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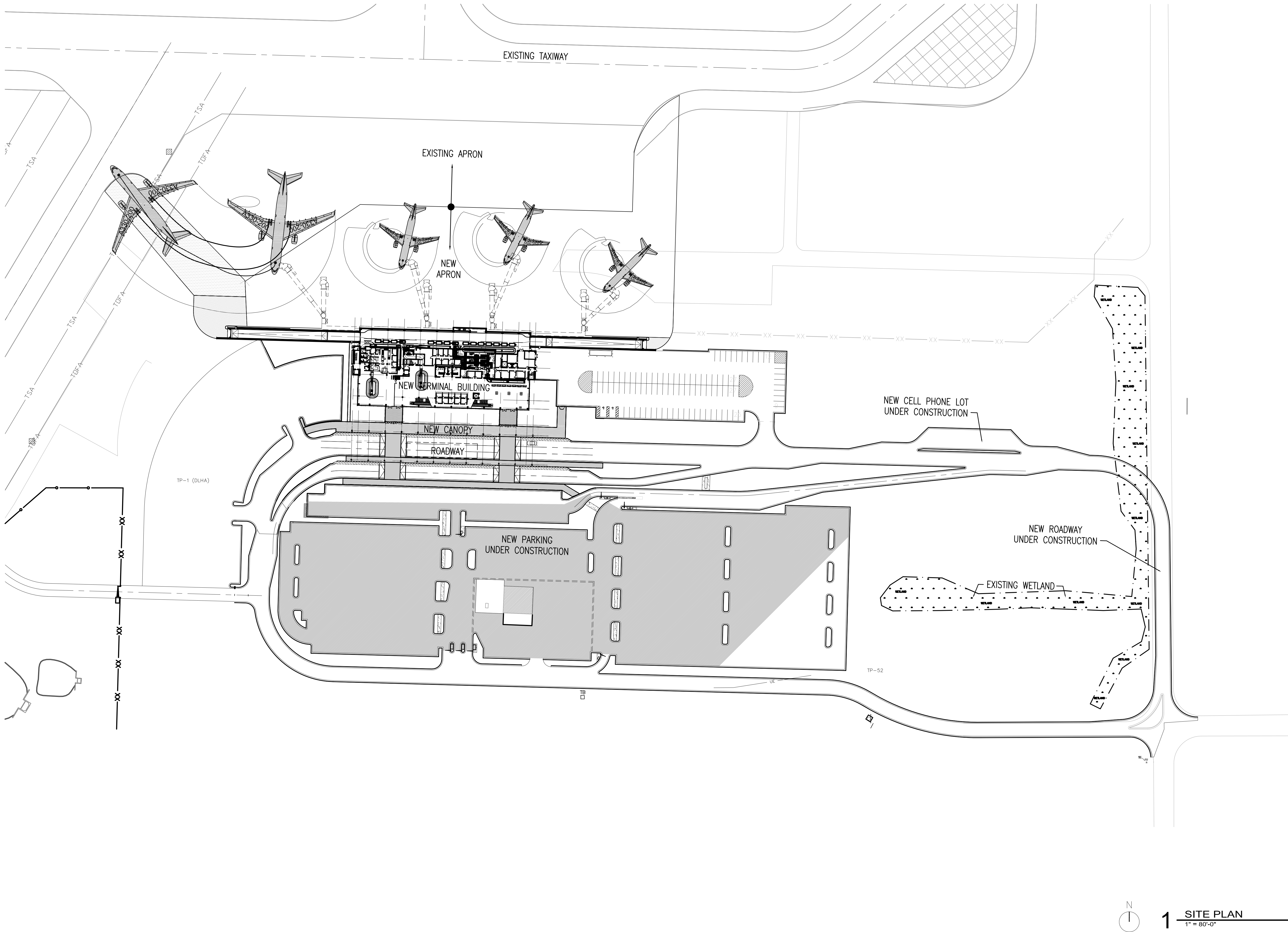
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SHEET TITLE
PARTITION
TYPES

SHEET NUMBER
A003

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- Structural Engineers:
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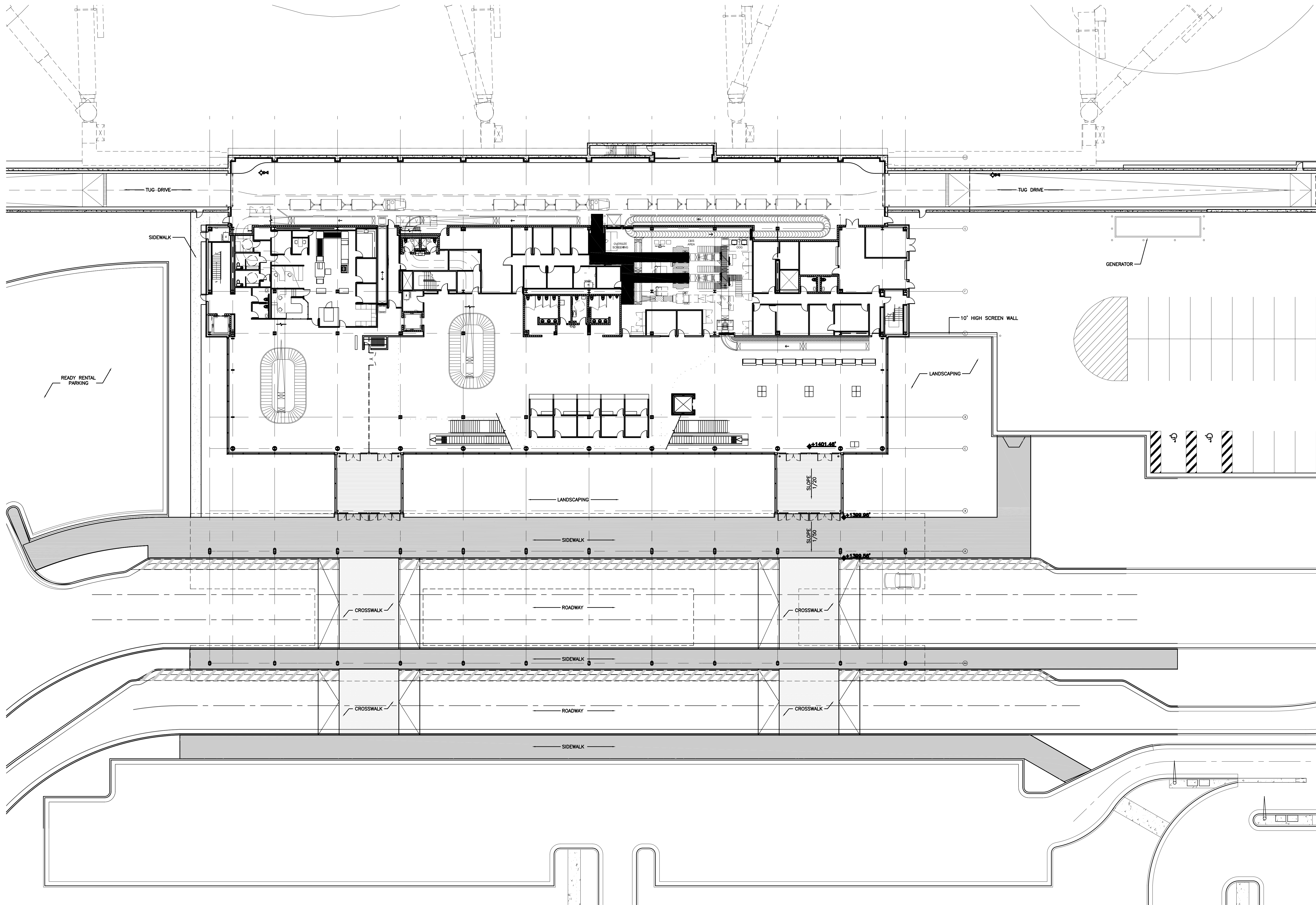
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SHEET TITLE
**OVERALL
SITE
PLAN**

SHEET NUMBER
AS100

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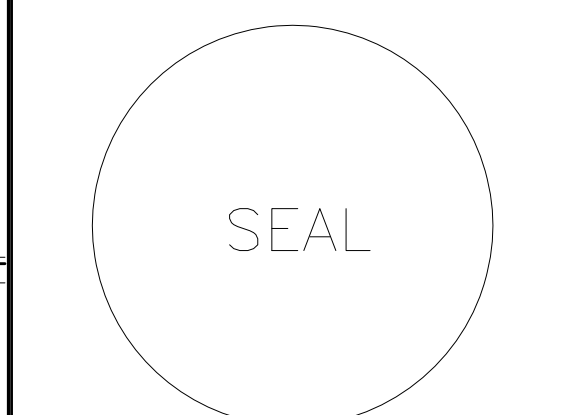
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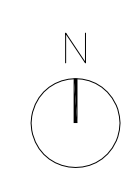
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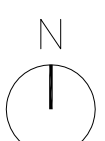
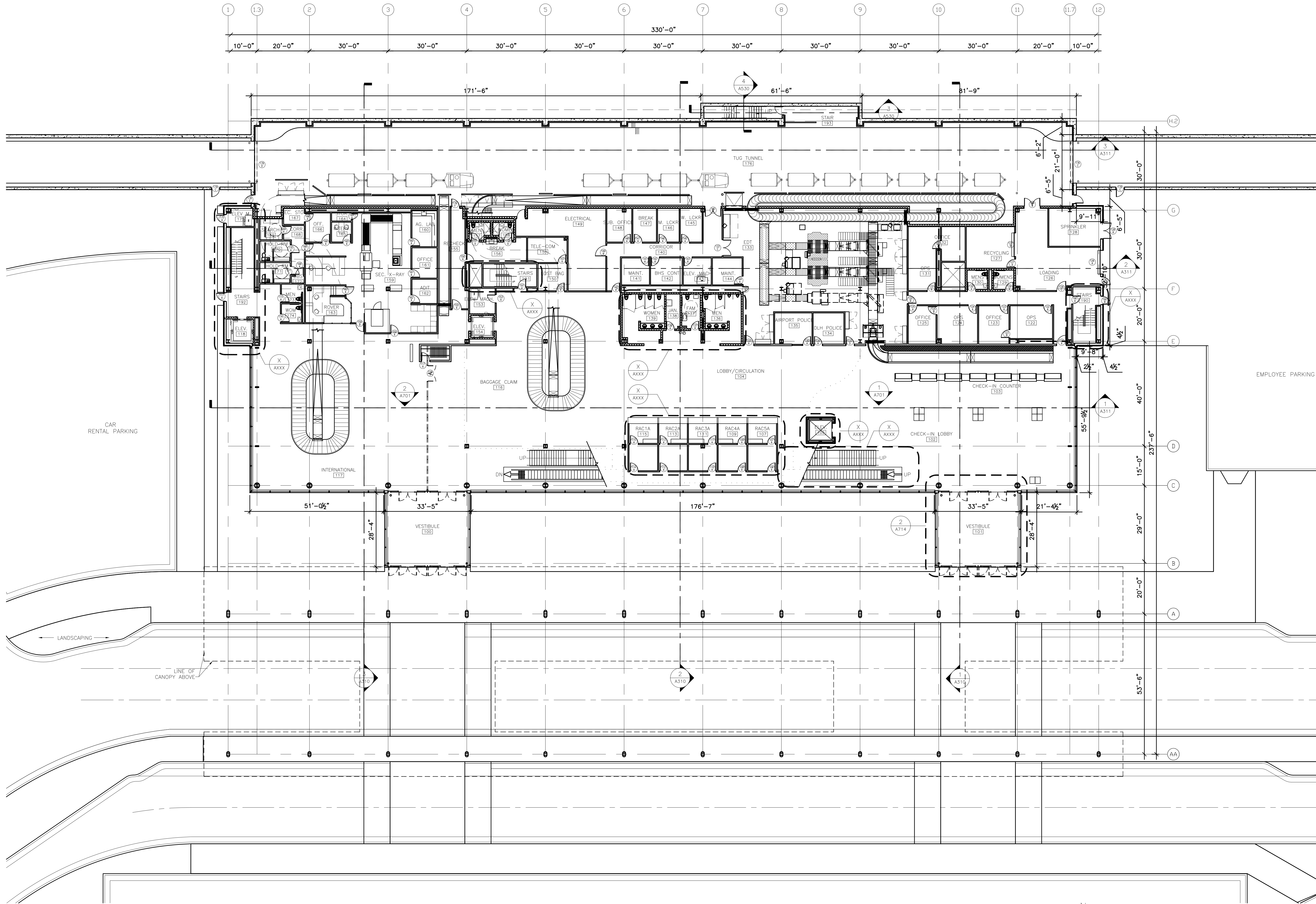
SHEET TITLE
**ARCHITECTURAL
SITE
PLAN**

SHEET NUMBER
AS101

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1 SITE PLAN
1" = 20'-0"



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



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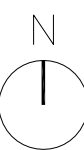
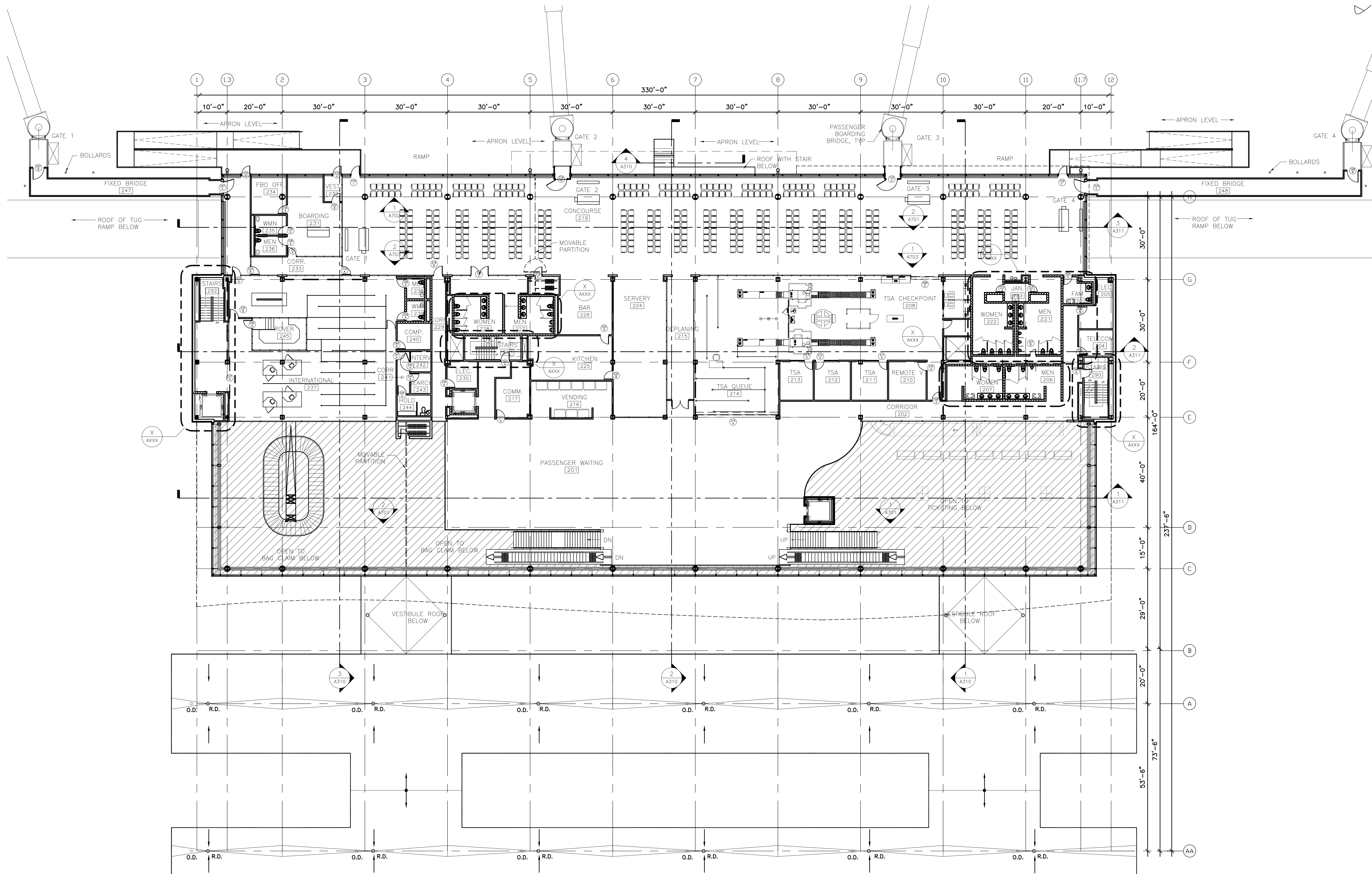
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SHEET TITLE
**OVERALL
FIRST FLOOR
PLAN**

SHEET NUMBER
A101

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1 SECOND LEVEL FLOOR PLAN
1/16" = 1'-0"

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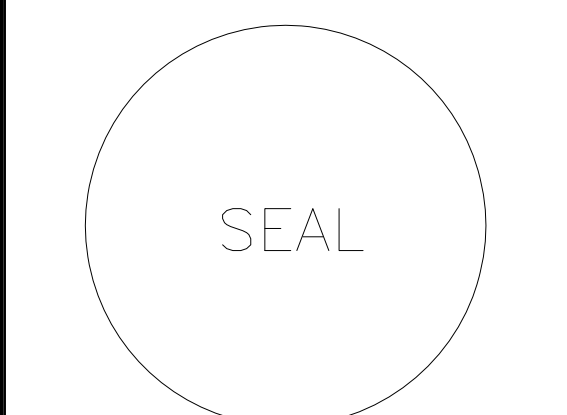
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Structural Engineers:
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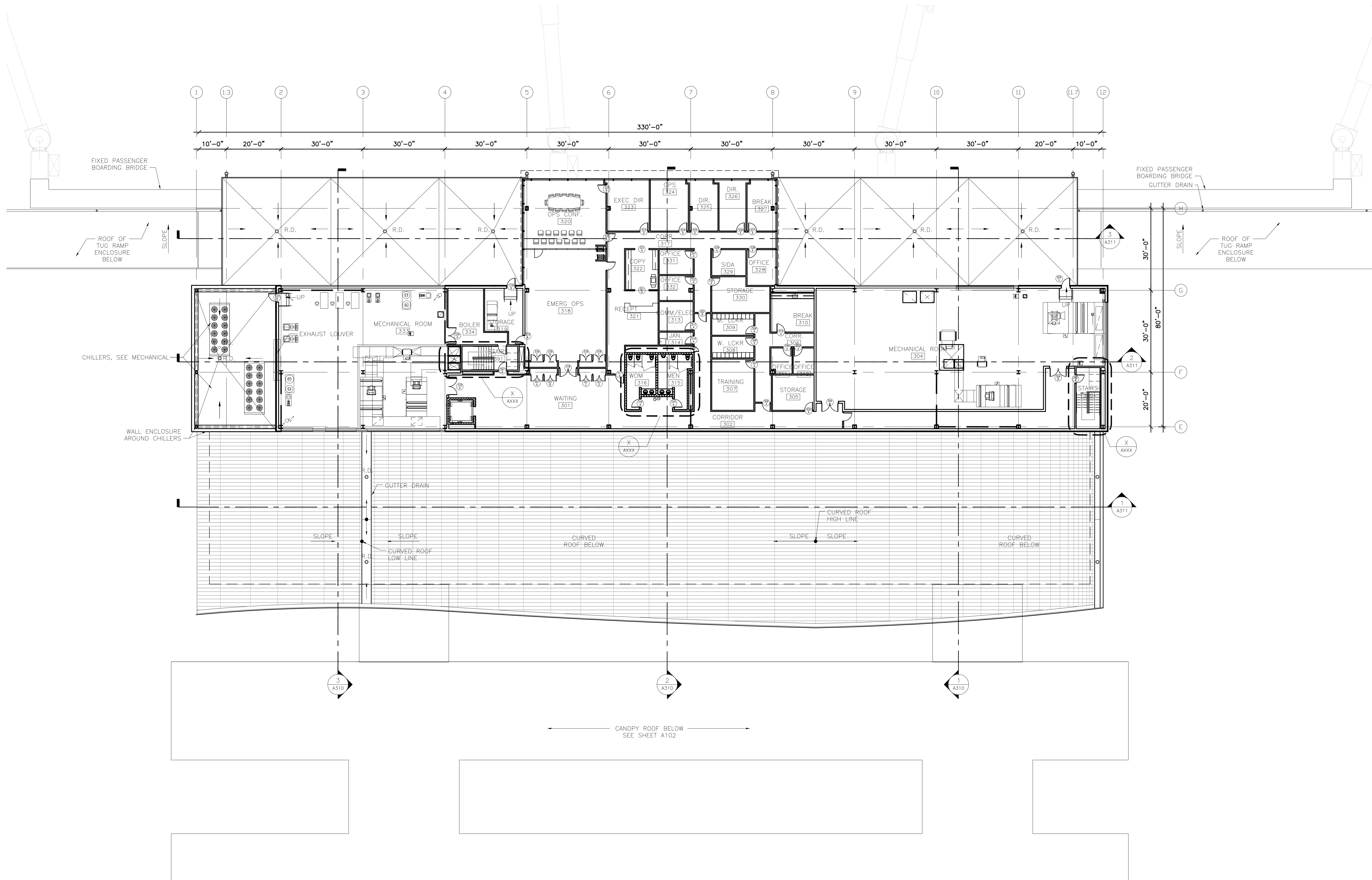
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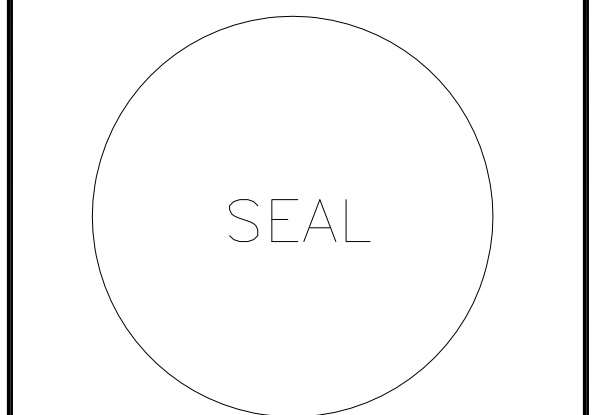
SHEET TITLE
**OVERALL
SECOND FLOOR
PLAN**

SHEET NUMBER
A102

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- CONSULTANTS**
- Interior Architects:
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- Structural Engineers:
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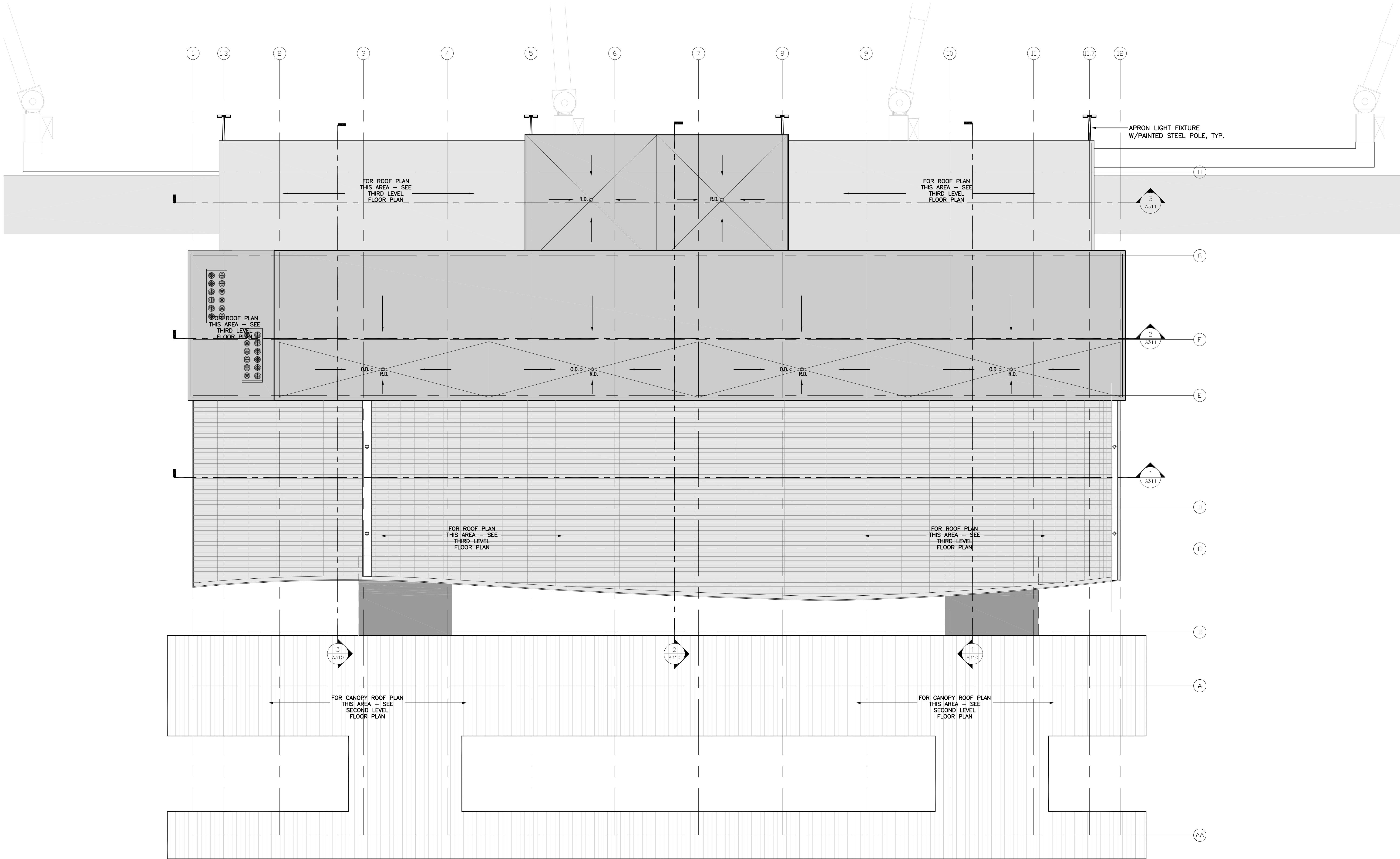
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SHEET TITLE
**OVERALL
THIRD FLOOR
PLAN**

SHEET NUMBER
A103

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



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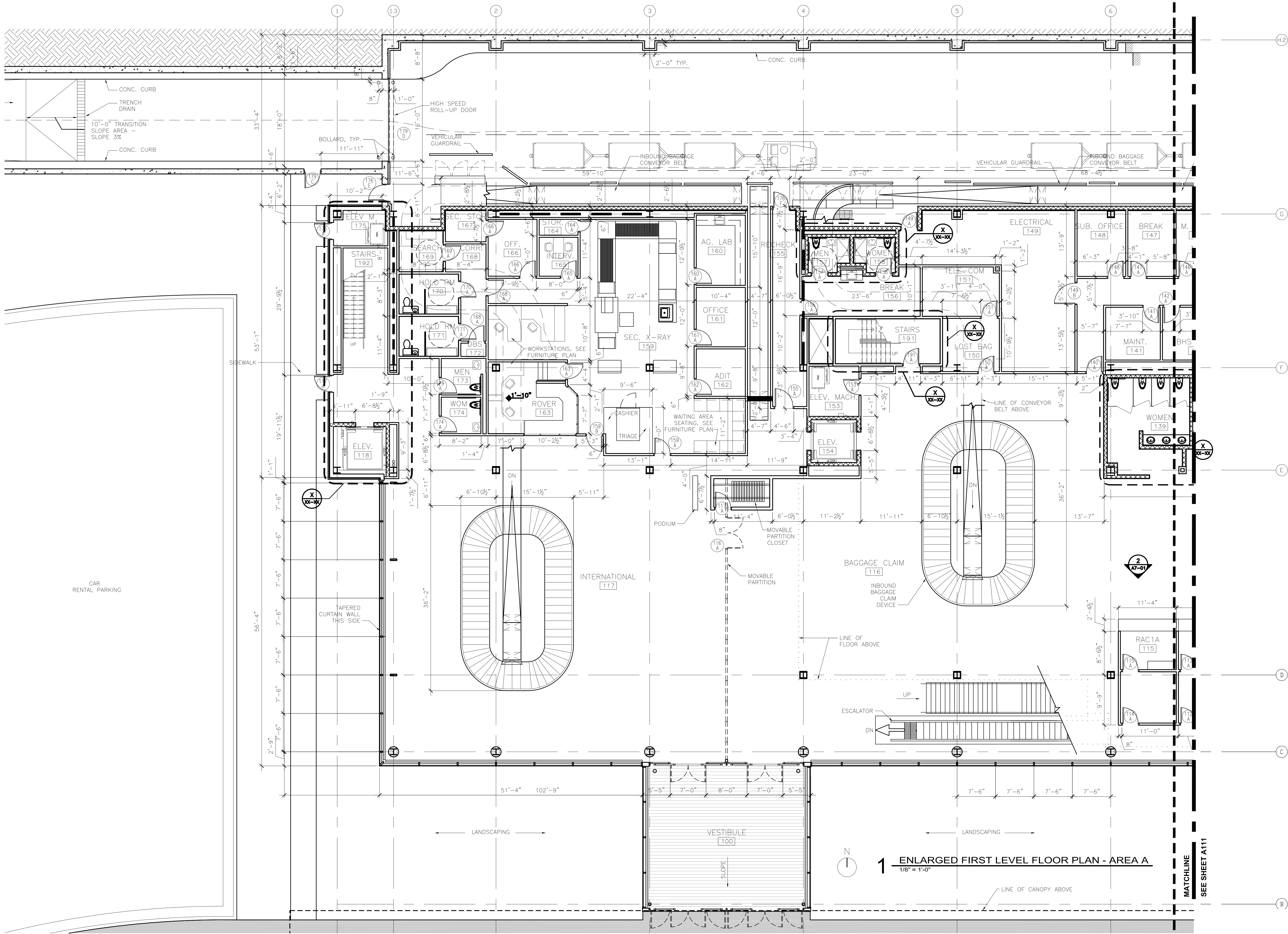
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SHEET TITLE
**OVERALL
ROOF PLAN**

SHEET NUMBER
A104

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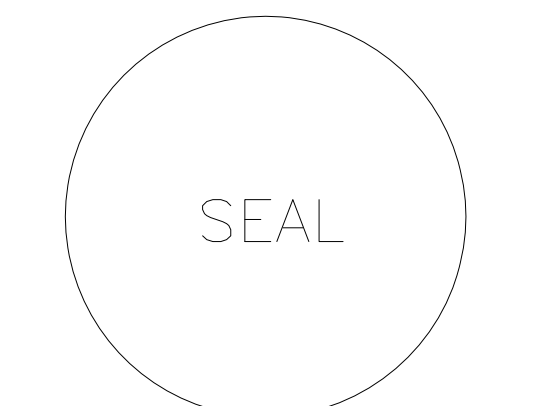
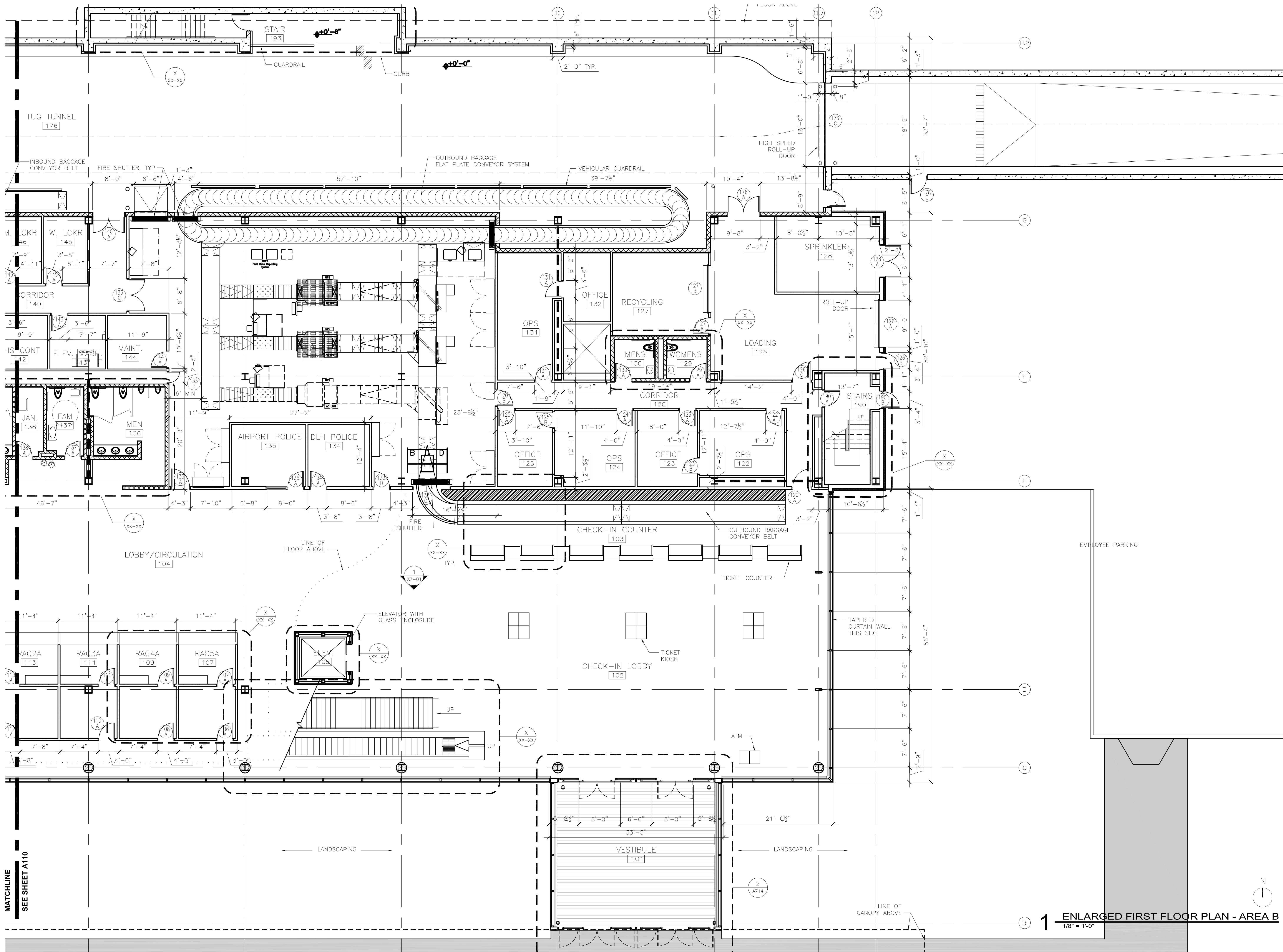
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SHEET TITLE
**ENLARGED
FIRST FLOOR
PLAN AREA A**

SHEET NUMBER
A110

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

SHEET NUMBER
A111

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CONSULTANTS

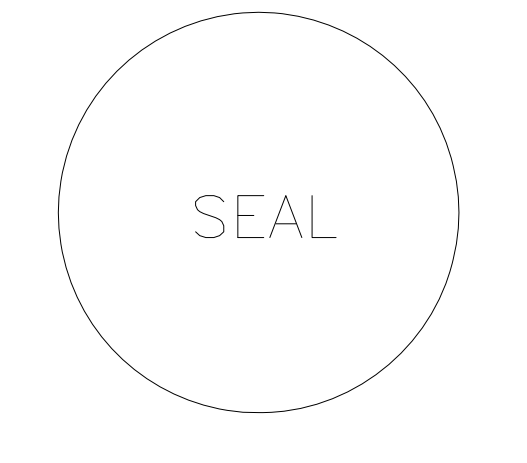
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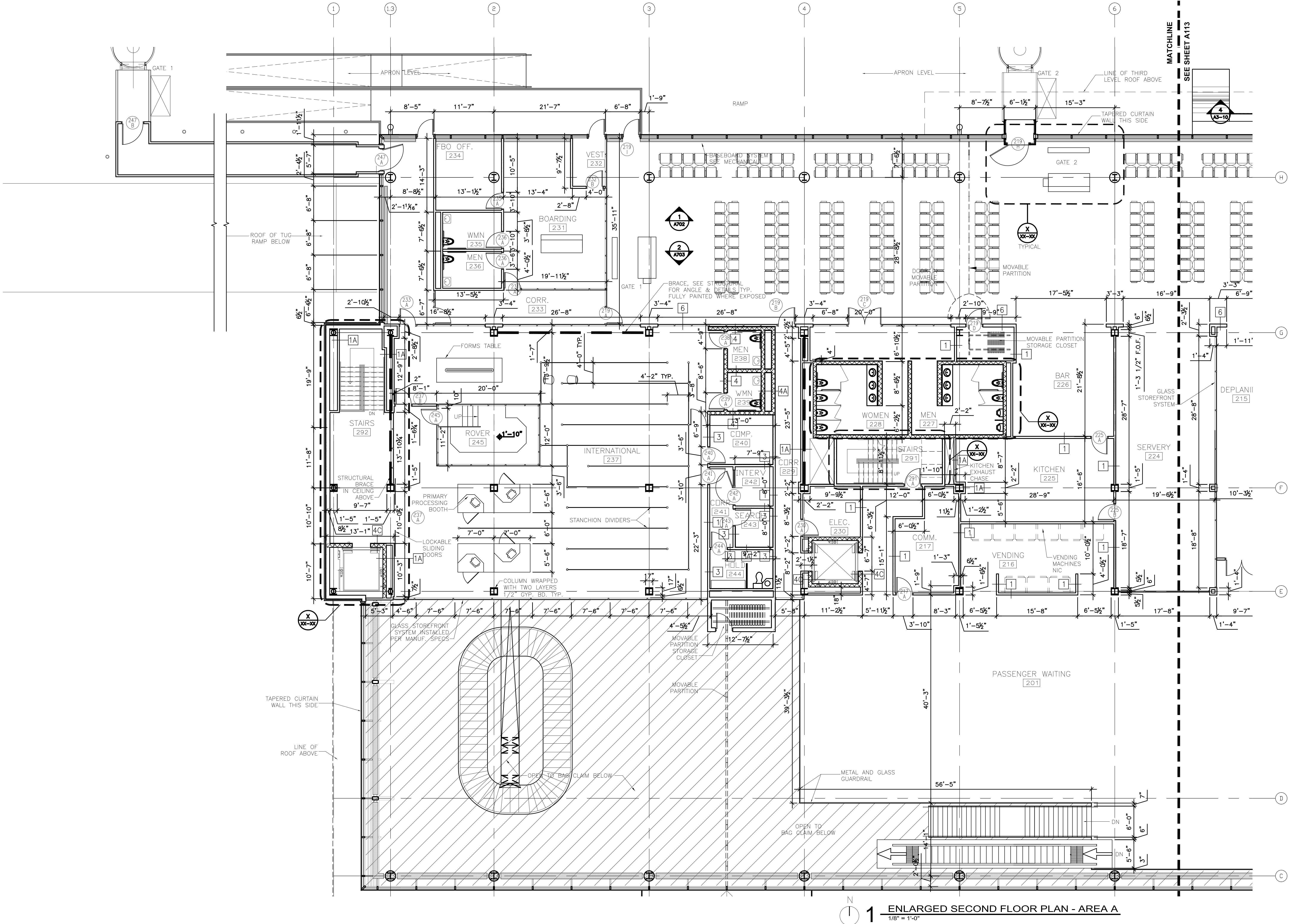
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SHEET TITLE
ENLARGED SECOND FLOOR PLAN AREA A

SHEET NUMBER
A112

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



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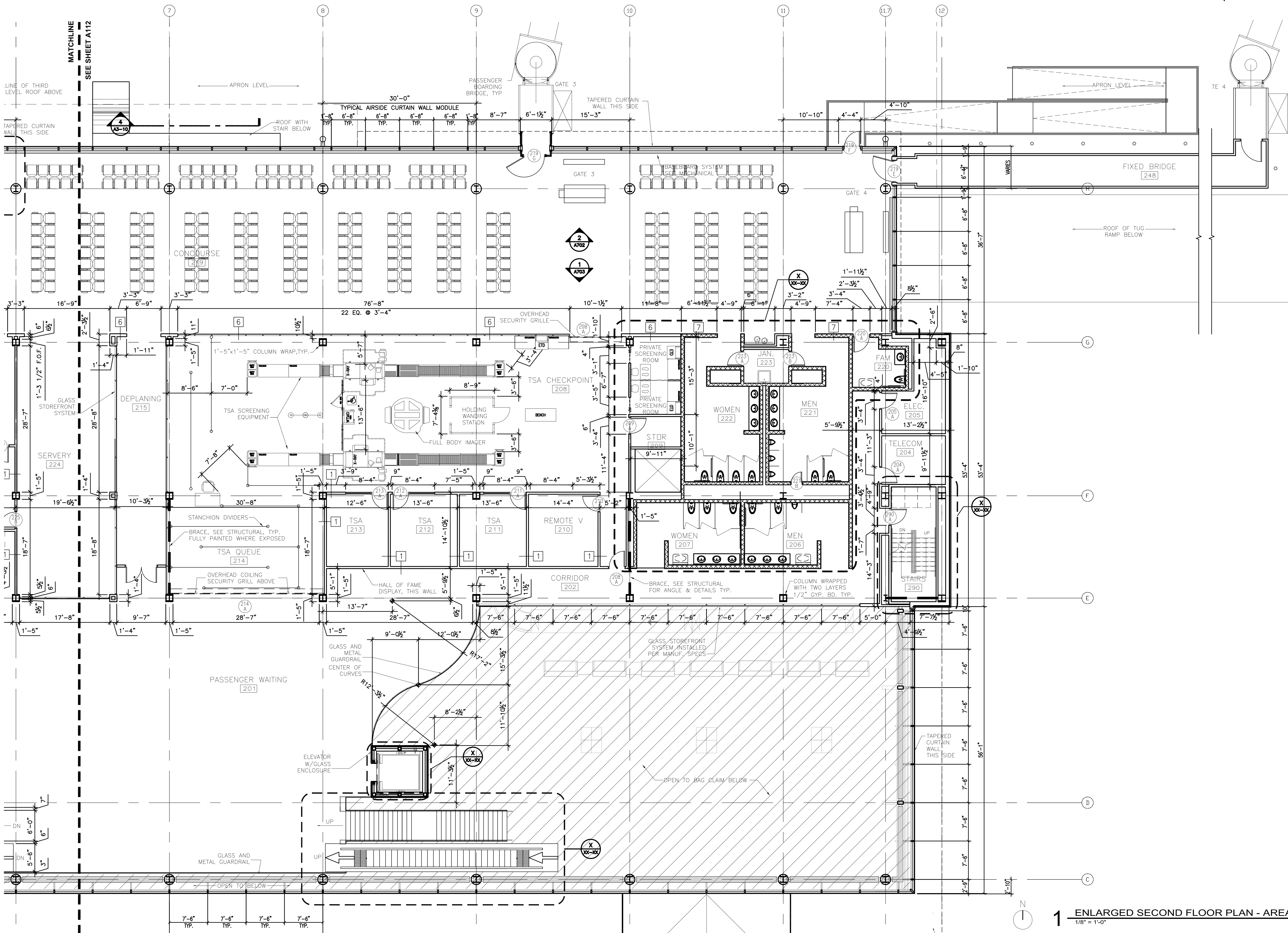
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**ENLARGED
SECOND FLOOR
PLAN AREA B**

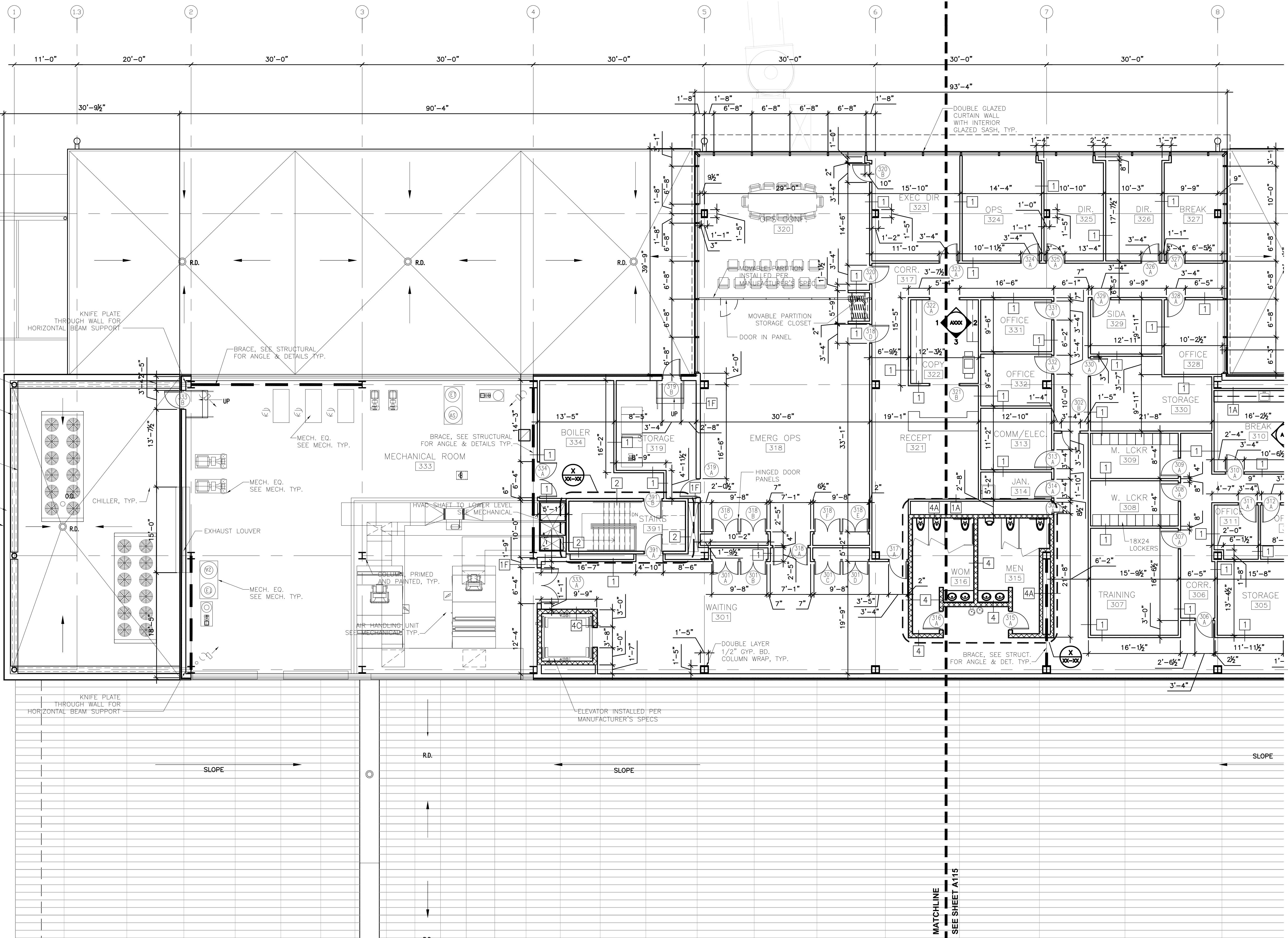
SHEET NUMBER

A113

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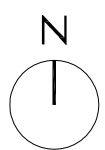
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SHEET TITLE
**ENLARGED
THIRD FLOOR
PLAN AREA A**

SHEET NUMBER
A114

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1 ENLARGED THIRD LEVEL FLOOR PLAN - ADMIN.
1/8" = 1'-0"



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DULUTH, MN**

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Interior Architects:

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M/E/P/FP Engineers:

COSENTINI

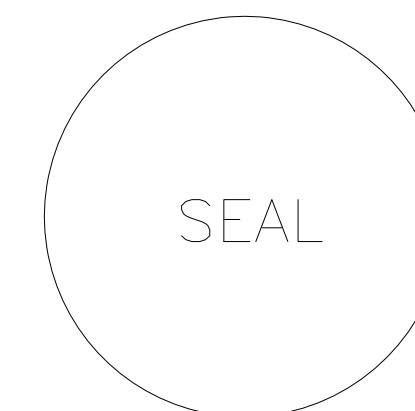
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Landscaping Consultant

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TEL: (218) 591-5079



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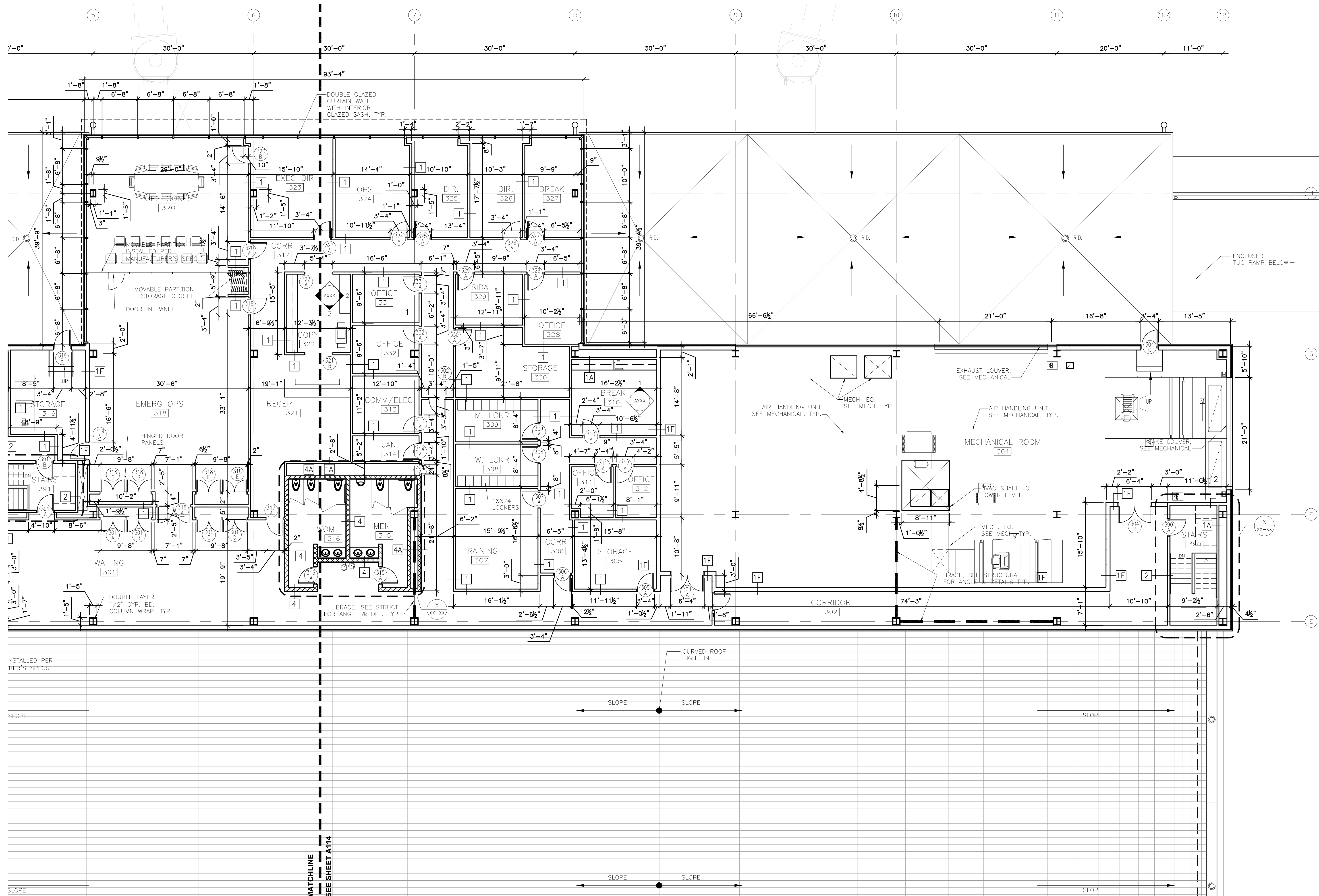
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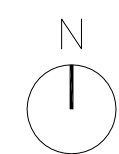
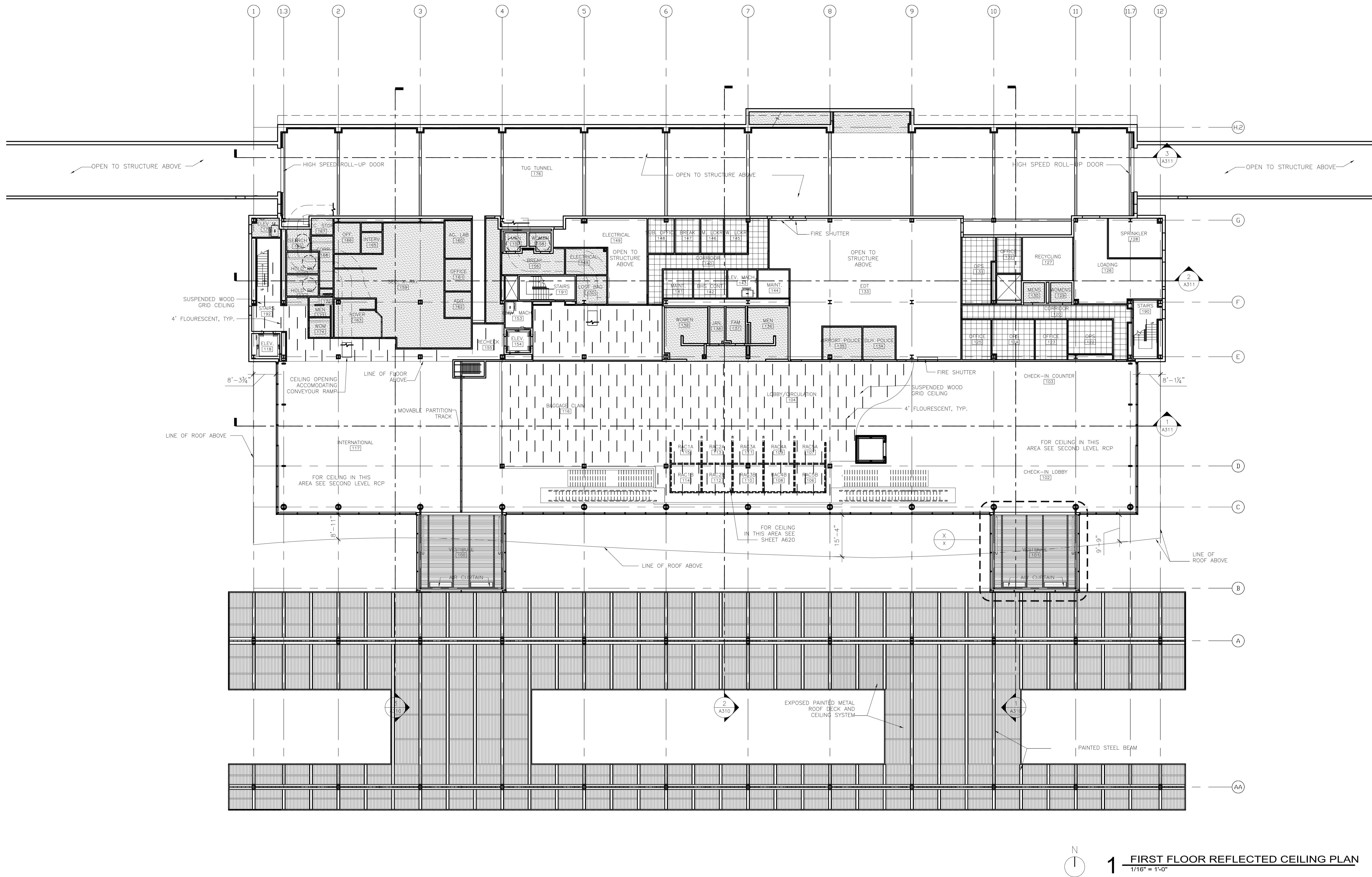
**ENLARGED
THIRD FLOOR
PLAN AREA E**

SHEET NUMBER

A115

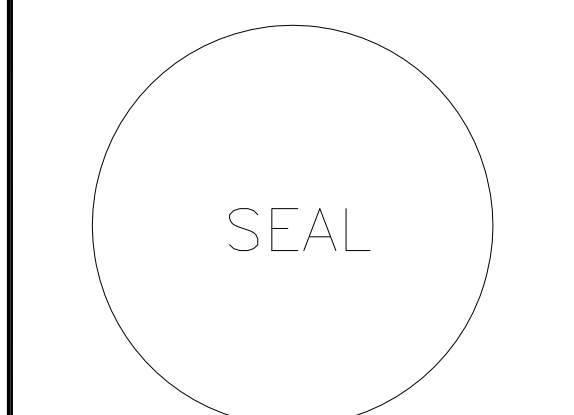
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1 FIRST FLOOR REFLECTED CEILING PLAN
1/16" = 1'-0"

- 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
- ME/PFP Engineers:
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TEL: (312) 670-1800 / FAX: (312) 670-1801
- 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: 02-15-10
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DRAWN BY: MKG/MI
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER
213-1882-091
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SHEET TITLE
**OVERALL
FIRST FLOOR
RCP**

SHEET NUMBER
A201

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CONSTRUCTION**

CONSULTANTS

Interior Architects:
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Structural Engineers:
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Landscaping Consultants:
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REVISIONS

NO.	DESCRIPTION	DATE

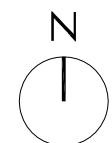
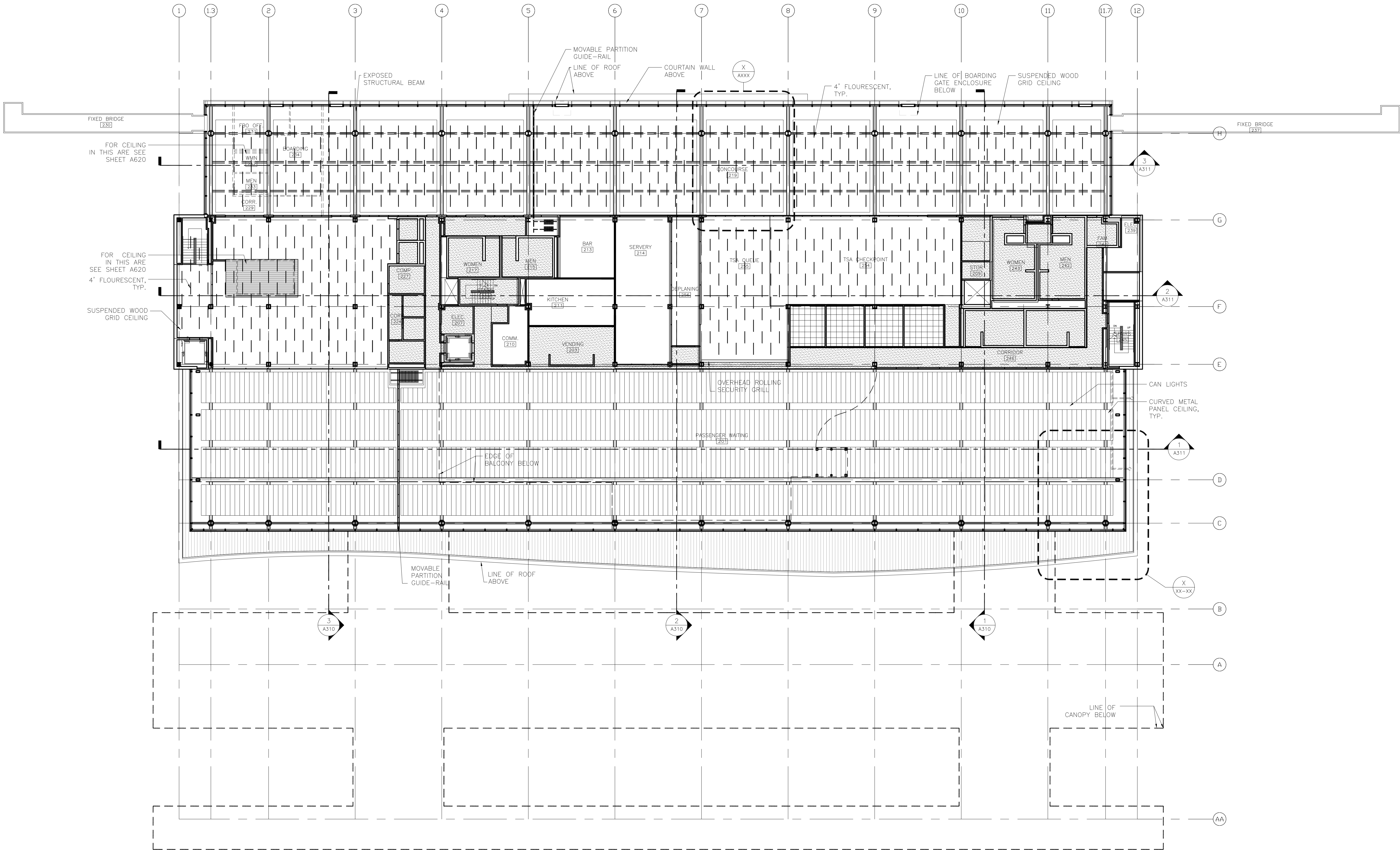
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SHEET TITLE
**OVERALL
SECOND FLOOR
RCP**

SHEET NUMBER
A202

**60% NOT FOR
CONSTRUCTION**



1 SECOND LEVEL REFLECTED CEILING PLAN
1/16" = 1'-0"

CONSULTANTS

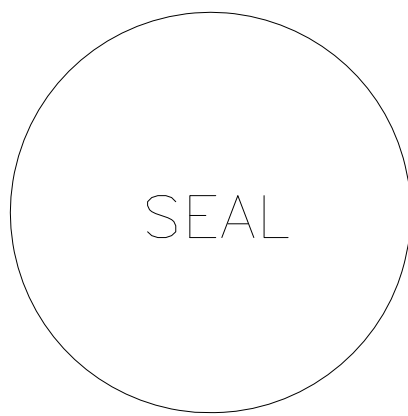
Interior Architects:
SJA ARCHITECTS
11 E Superior Street Suite 340, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:
MBJ CONSULTING ENG.
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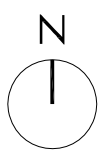
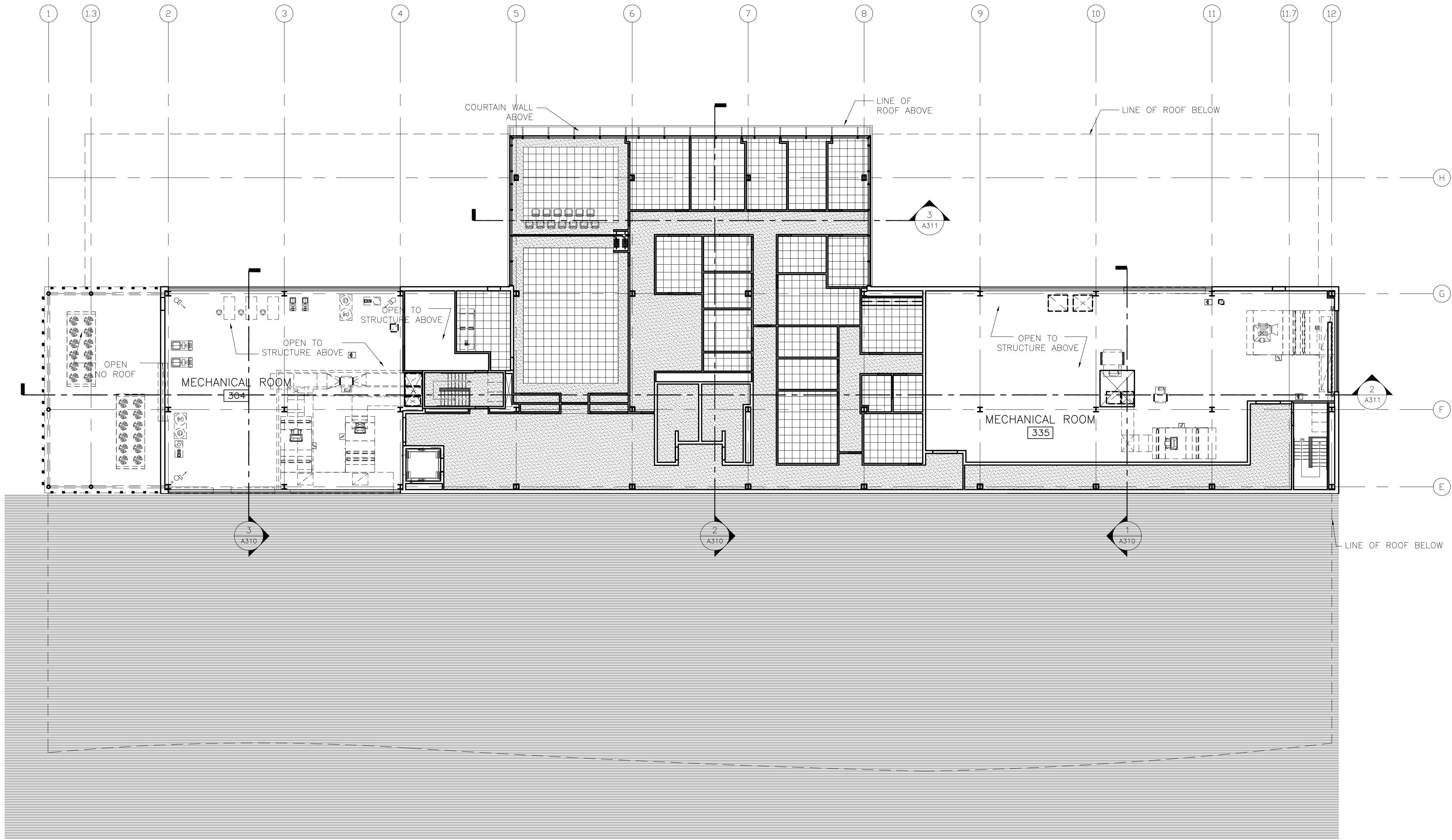
SHEET TITLE

**OVERALL
THIRD FLOOR
RCP**

SHEET NUMBER

A203

**60% NOT FOR
CONSTRUCTION**



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

CONSULTANTS

Interior Architects:
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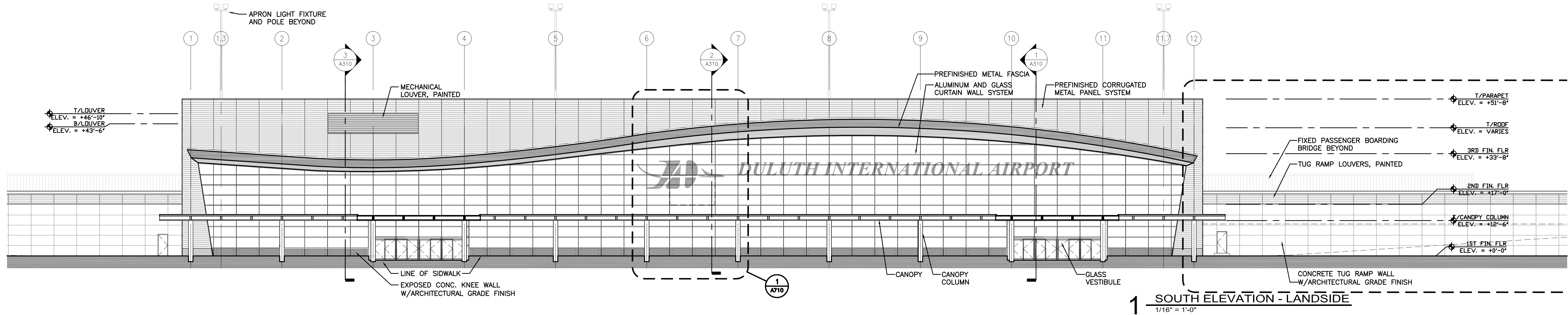
REVISIONS		
NO.	DESCRIPTION	DATE

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SHEET TITLE
**EXTERIOR
ELEVATIONS**

SHEET NUMBER
A301

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CONSTRUCTION**



CONSULTANTS

Interior Architects:
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ME/P/FP Engineers:
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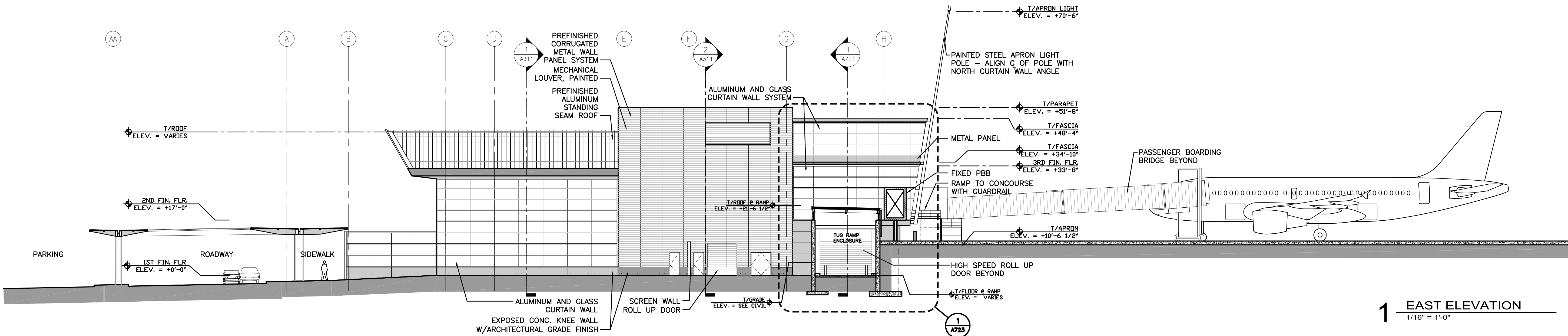
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**EXTERIOR
ELEVATIONS**

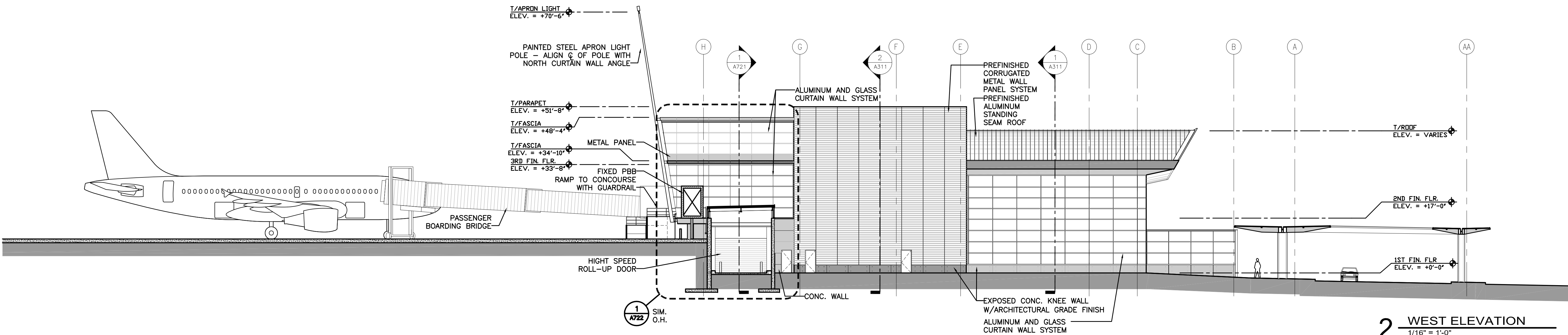
SHEET NUMBER

A302

**60% NOT FOR
CONSTRUCTION**



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



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



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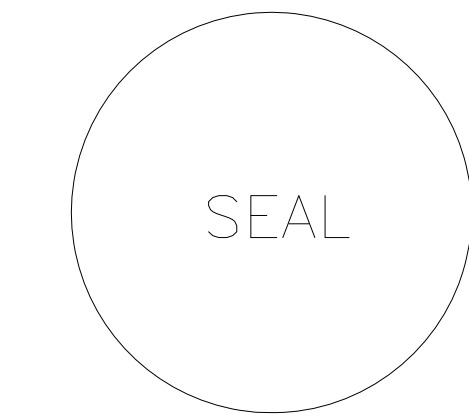
Interior Architects:
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TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:
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SHEET TITLE
CANOPY
ELEVATIONS

SHEET NUMBER
A303

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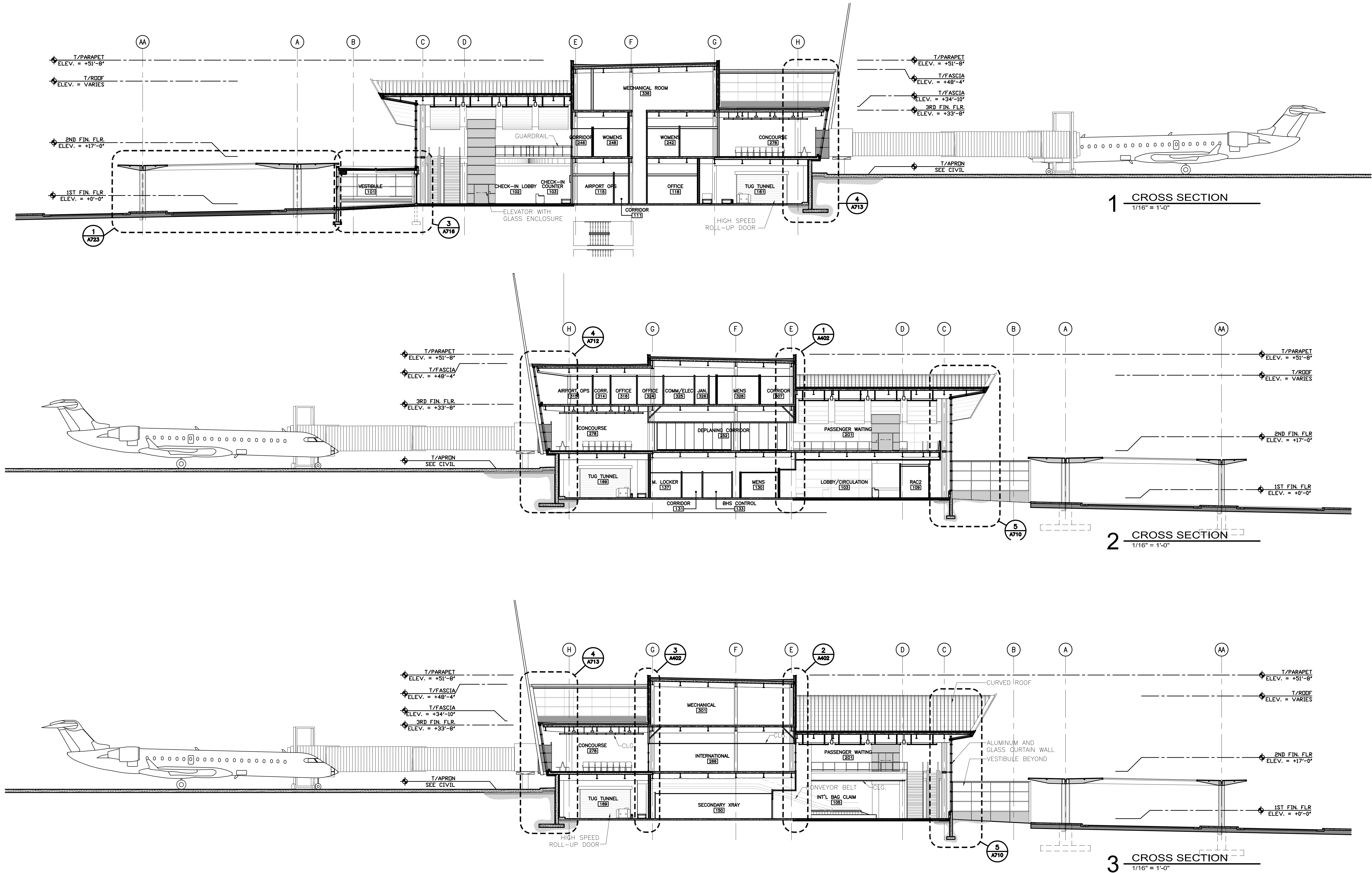
SHEET TITLE

**BUILDING
SECTIONS**

SHEET NUMBER

A310

**60% NOT FOR
CONSTRUCTION**



CONSULTANTS

Interior Architects:
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TEL: (218) 591-5079



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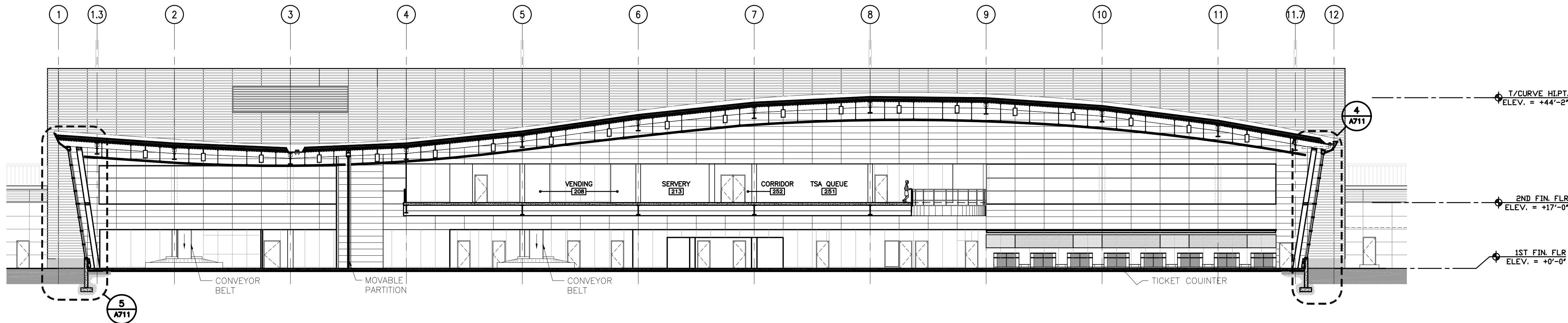
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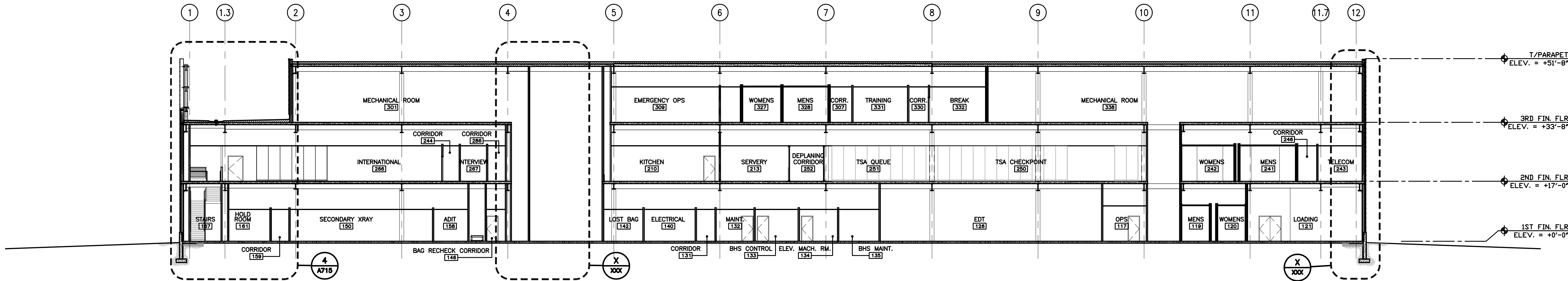
SHEET TITLE
**BUILDING
SECTIONS**

SHEET NUMBER
A311

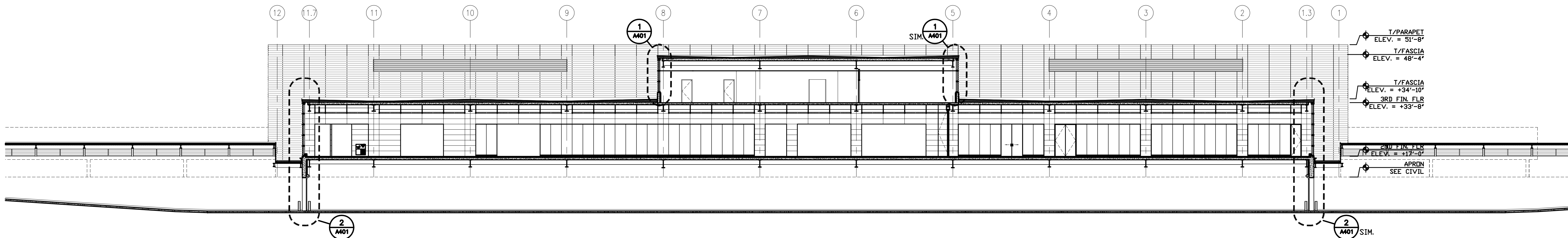
**60% NOT FOR
CONSTRUCTION**



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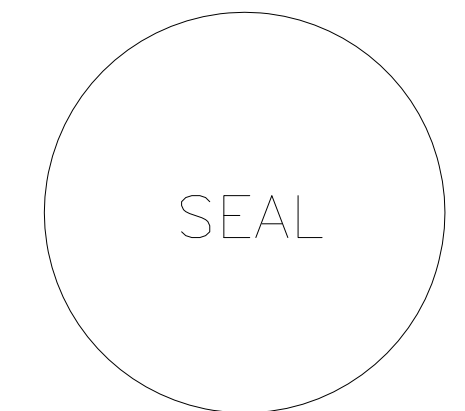
Interior Architects:
SJA ARCHITECTS
11 E Superior Street Suite 340, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:
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DRAWN BY:	MKG/MI
DESIGNED BY:	SBS/TC

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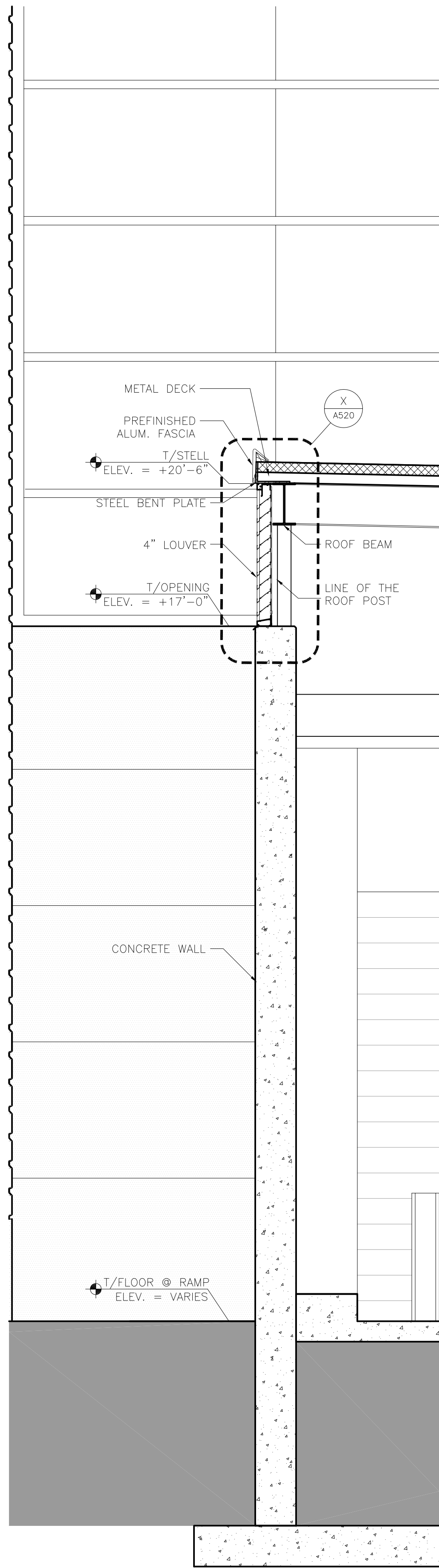
SHEET TITLE

WALL SECTIONS

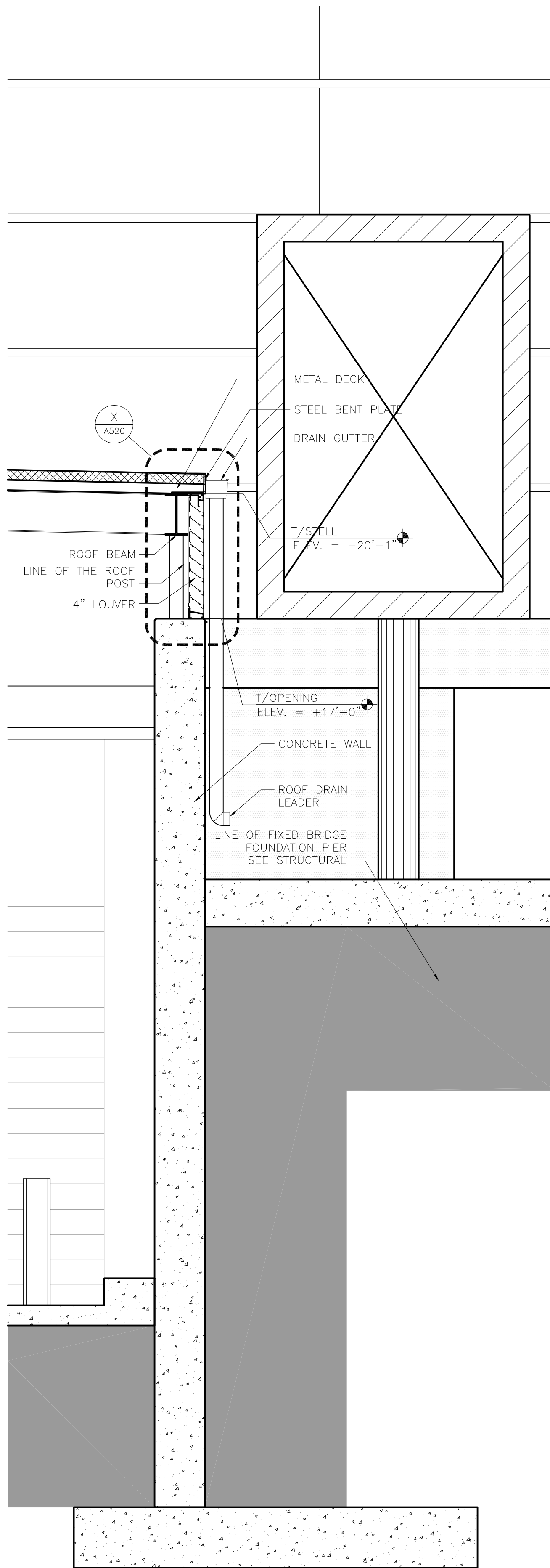
SHEET NUMBER

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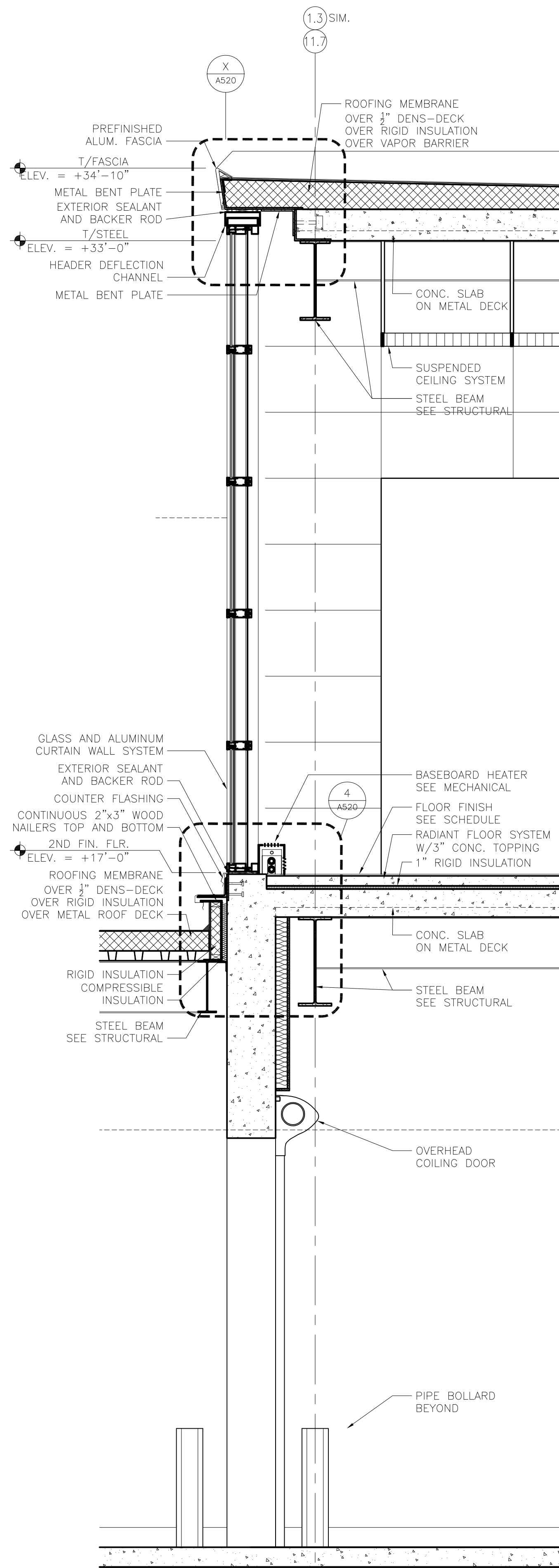
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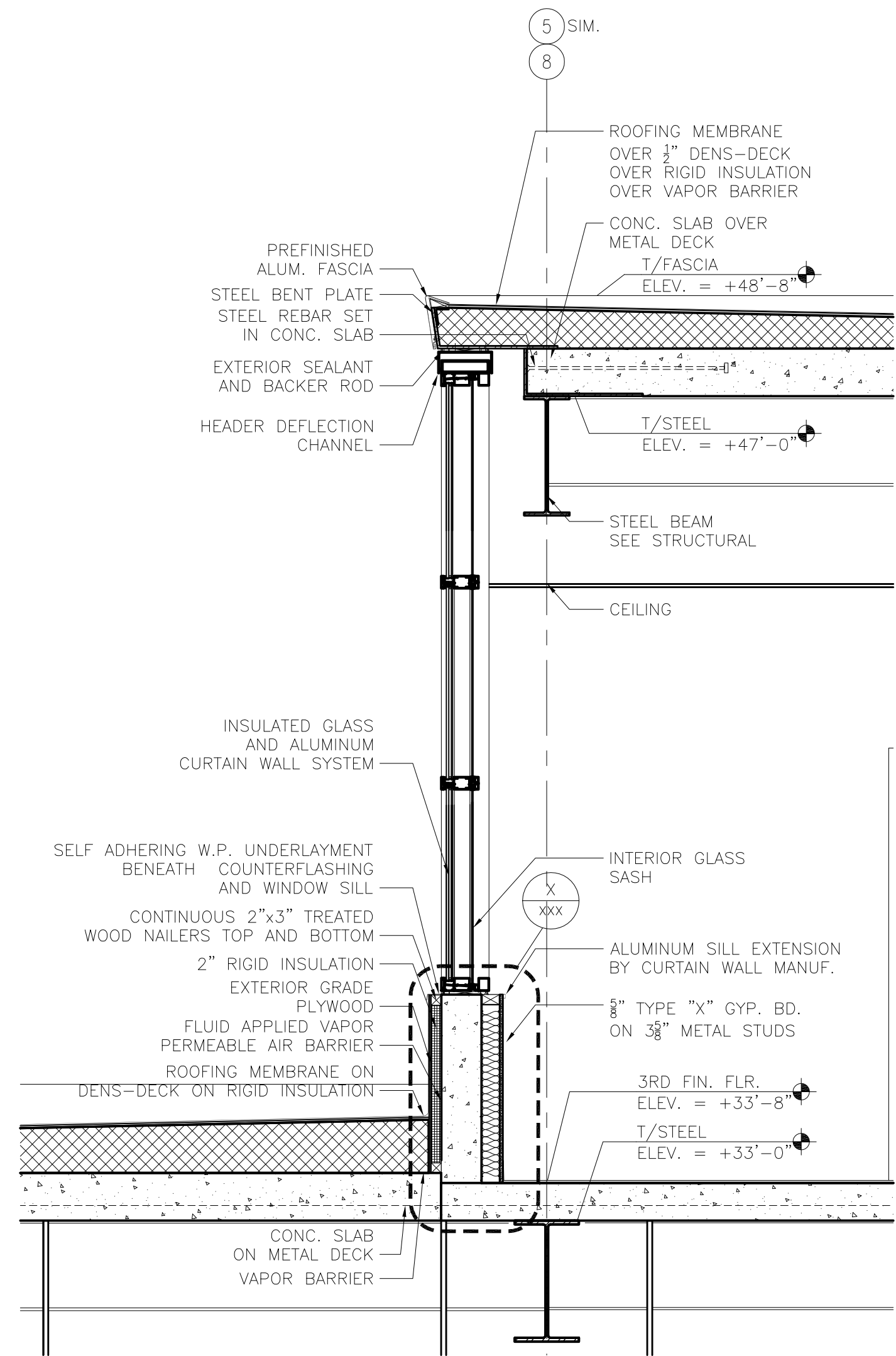
4 WALL SECTION @ TUG TUNNEL



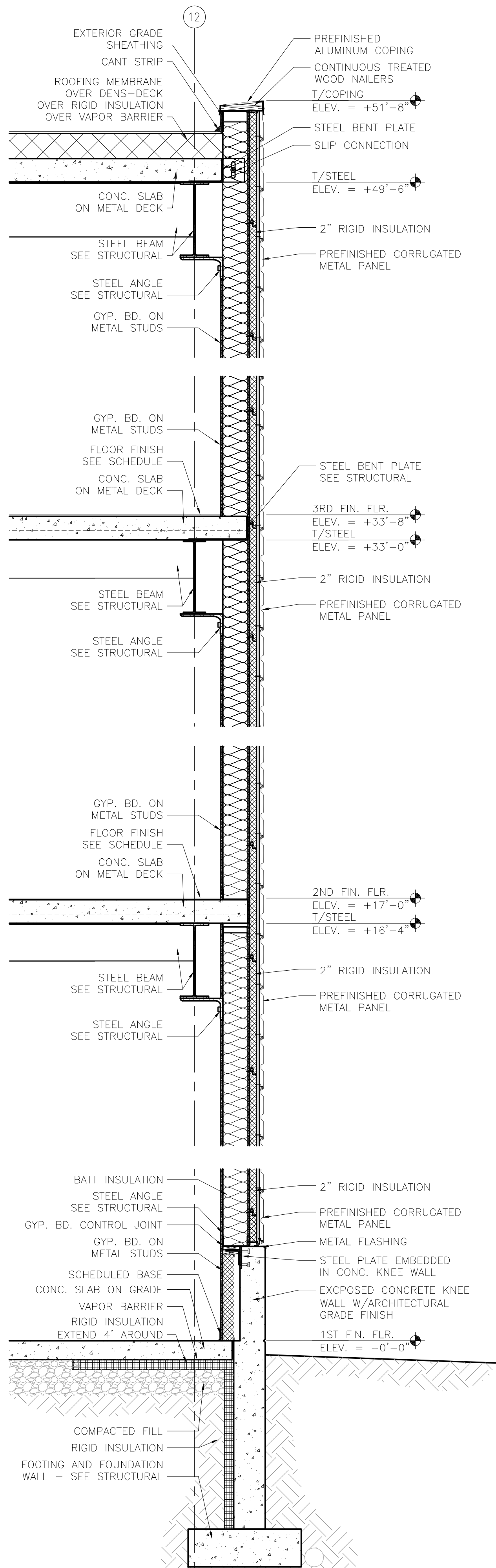
3 WALL SECTION @ TUG TUNNEL



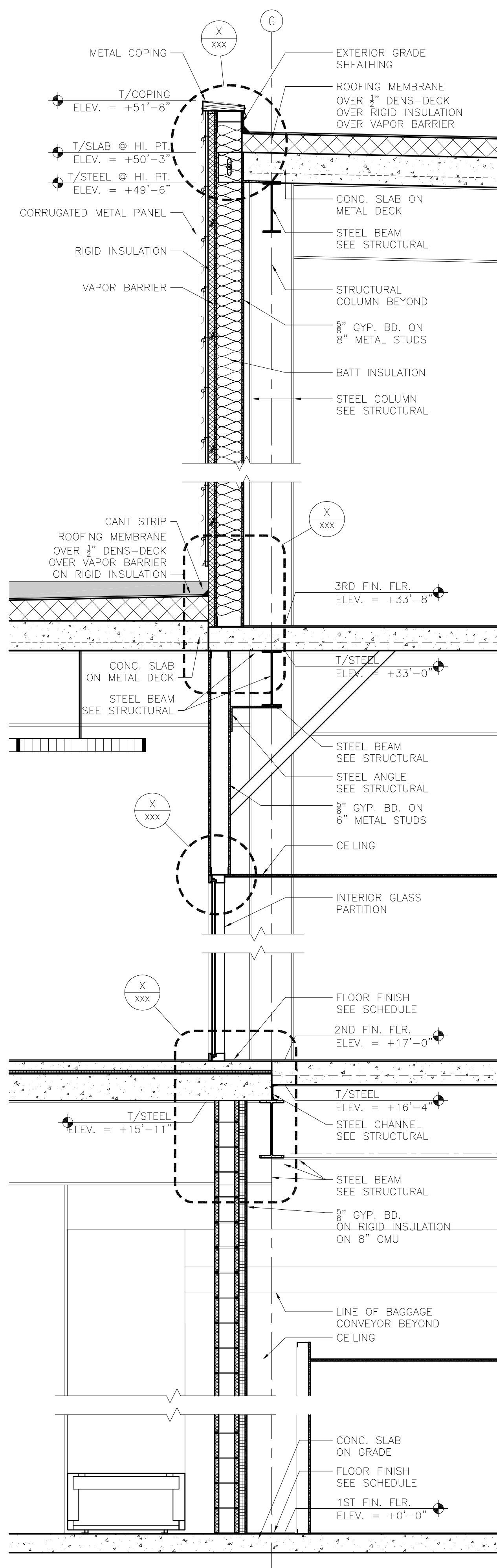
2 WALL SECTION @ CONCOURSE CURTAIN WALL



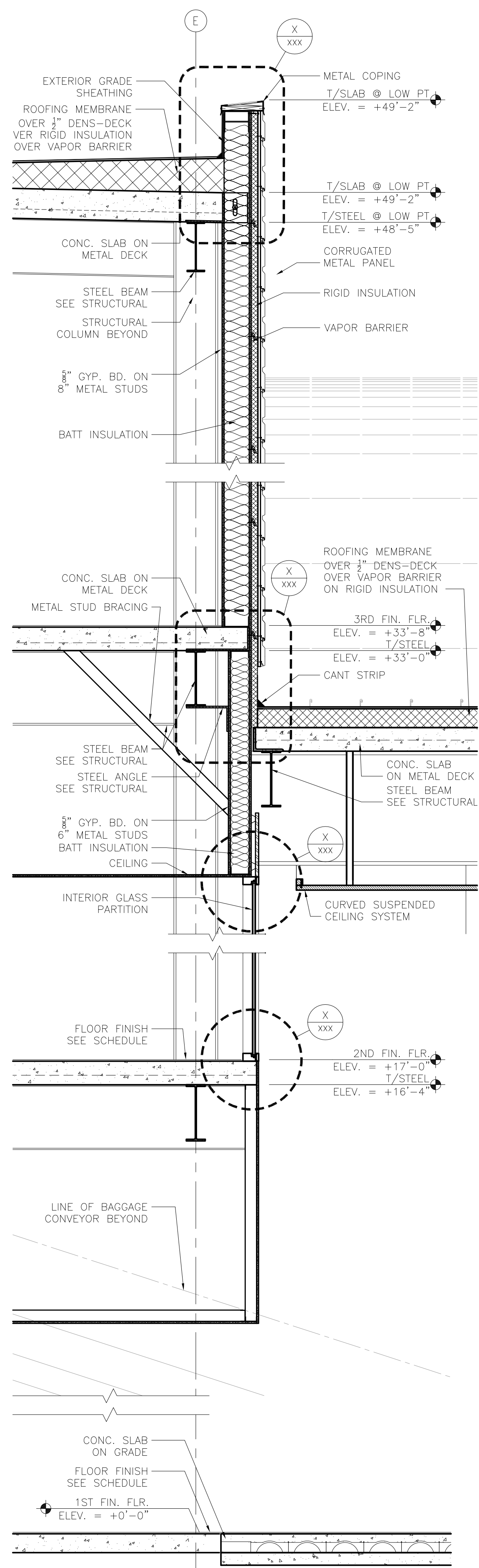
1 WALL SECTION @ ADMIN CURTAIN WALL
1/2" = 1'-0"



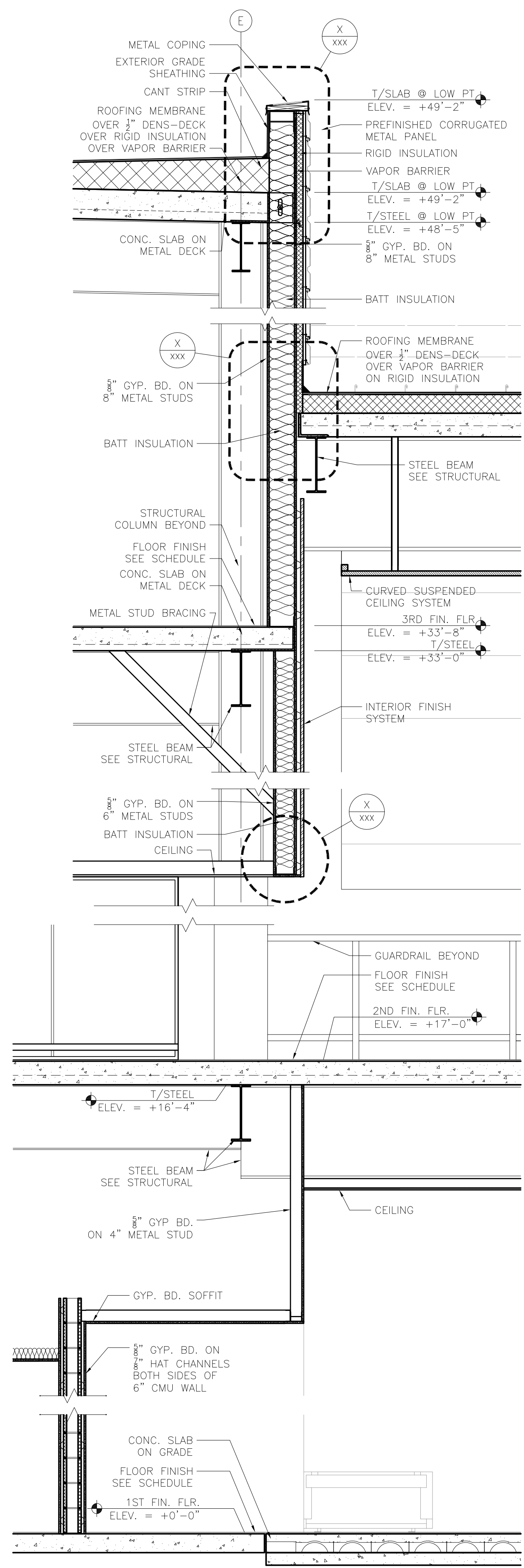
4 WALL SECTION @ CORE WALL
1/2" = 1'-0"



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"

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**DULUTH INTERNATIONAL AIRPORT
DULUTH, MN**

NEW PASSENGER TERMINAL

CONSULTANTS

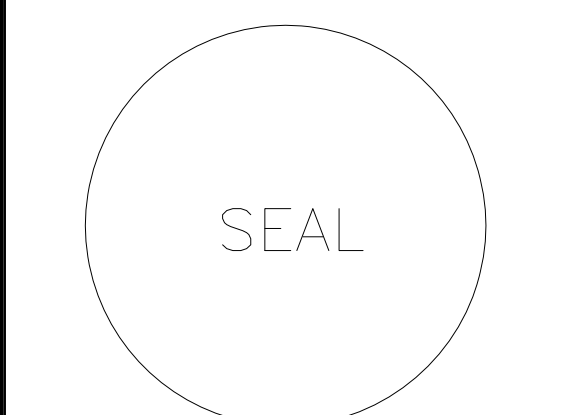
Interior Architects:
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Structural Engineers:
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DRAWN BY: MKG/MI
DESIGNED BY: SBS/TC

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SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A402

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CONSULTANTS

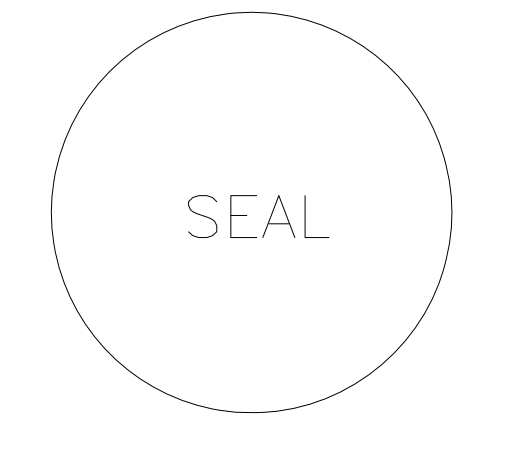
Interior Architects:
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11 E Superior Street Suite 340, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

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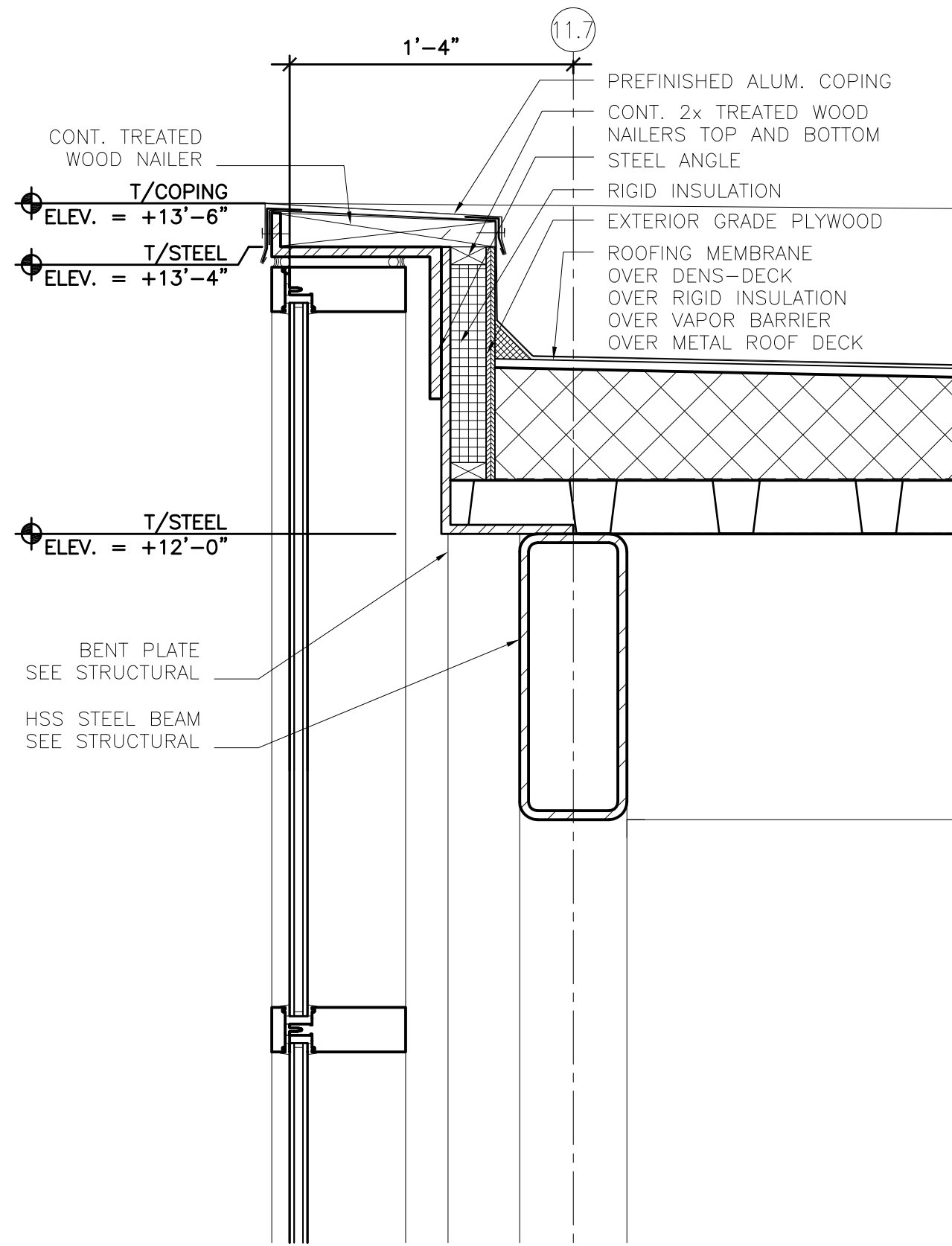
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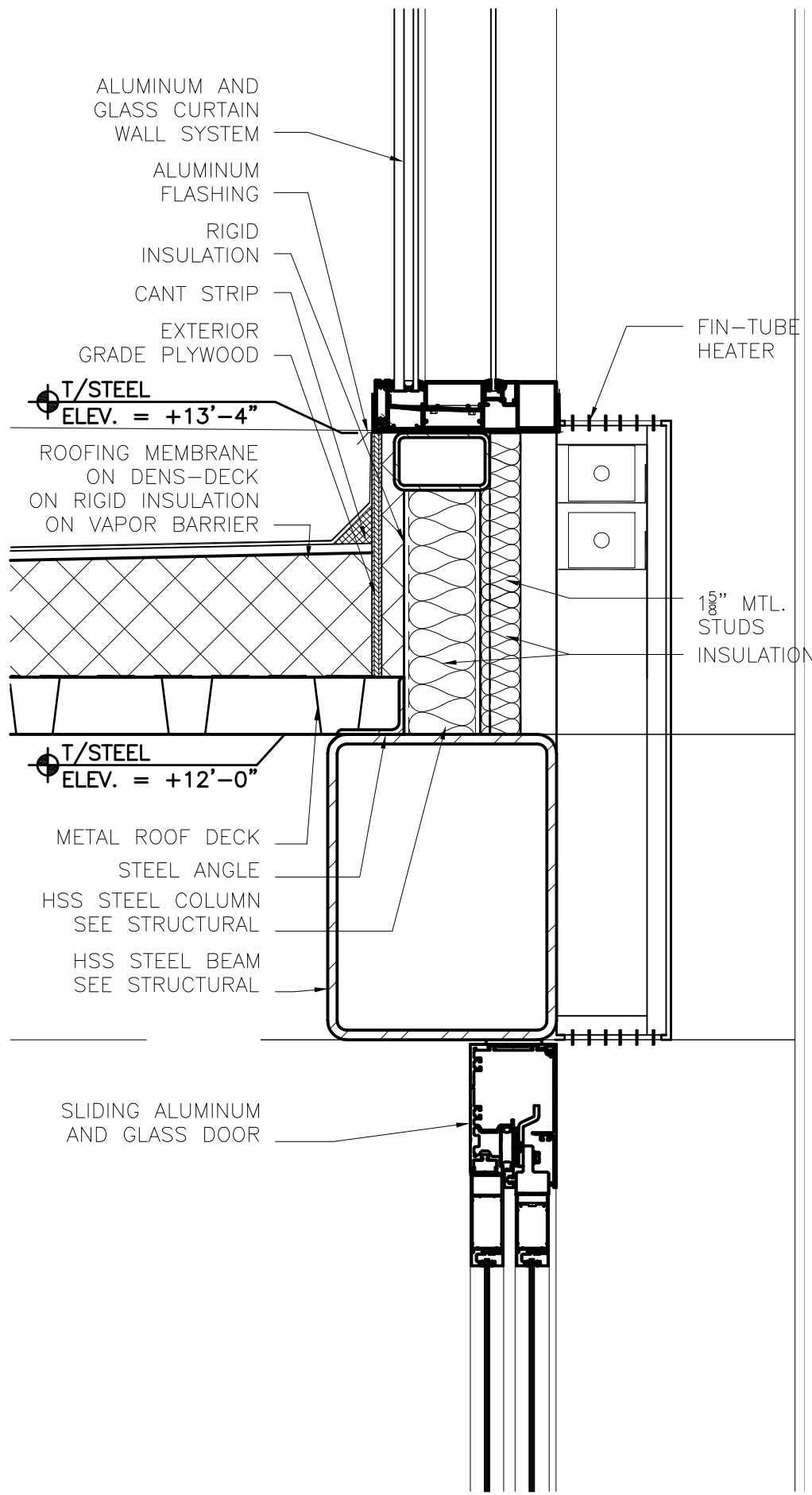
SHEET TITLE
SECTION DETAILS

SHEET NUMBER
A520

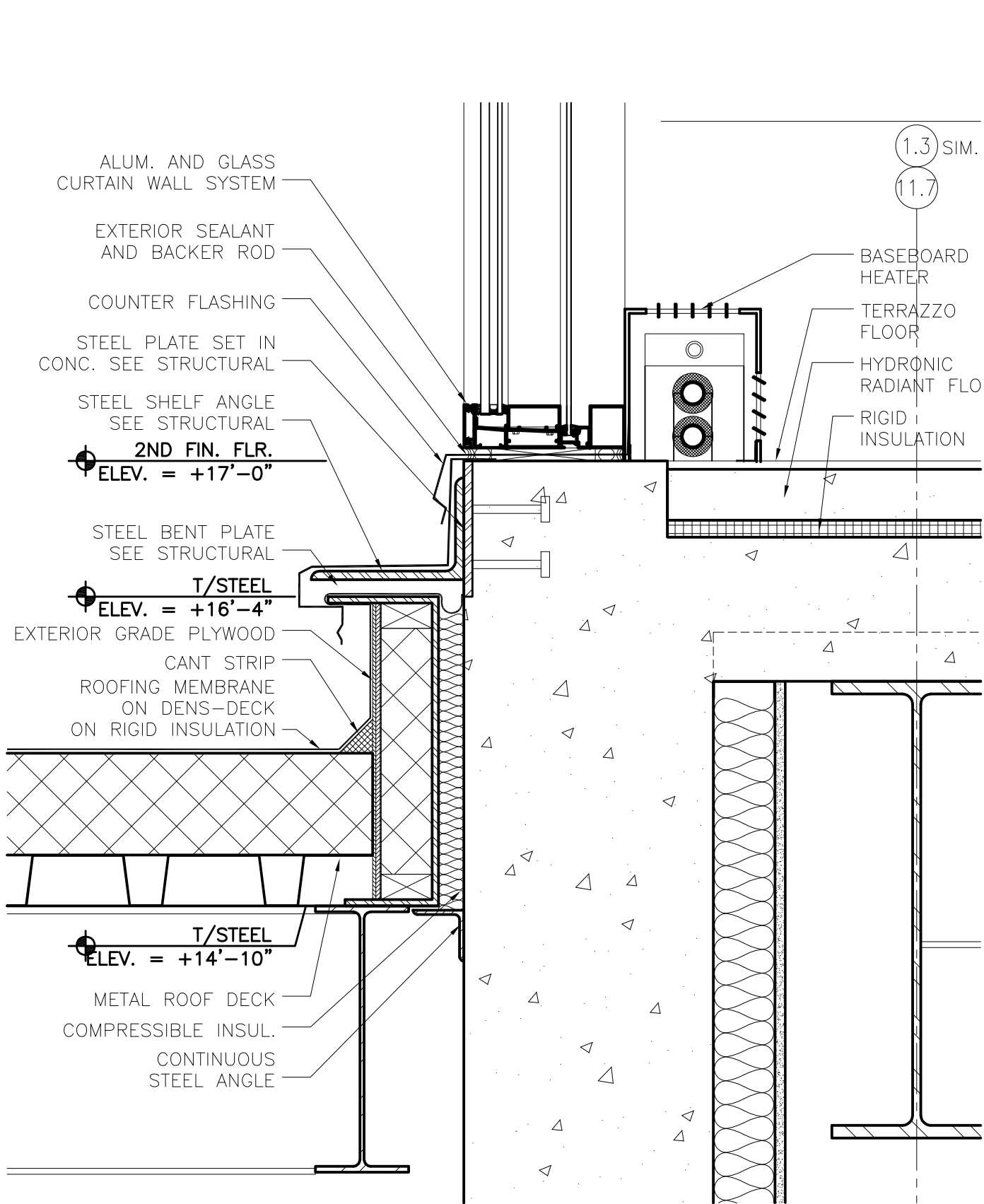
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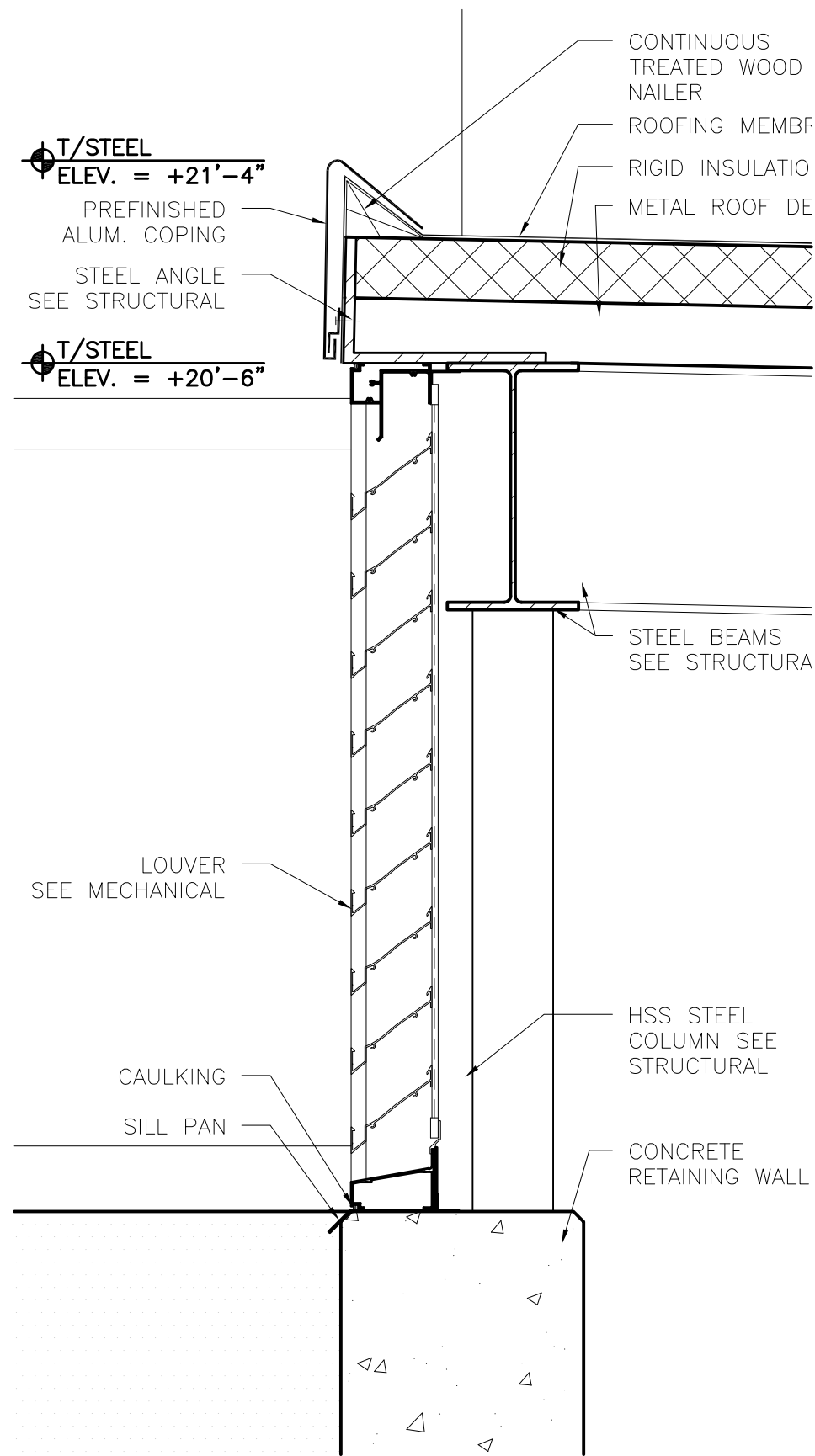
3 SECTION DETAIL @ VESTIBULE
1 1/2" = 1'-0"



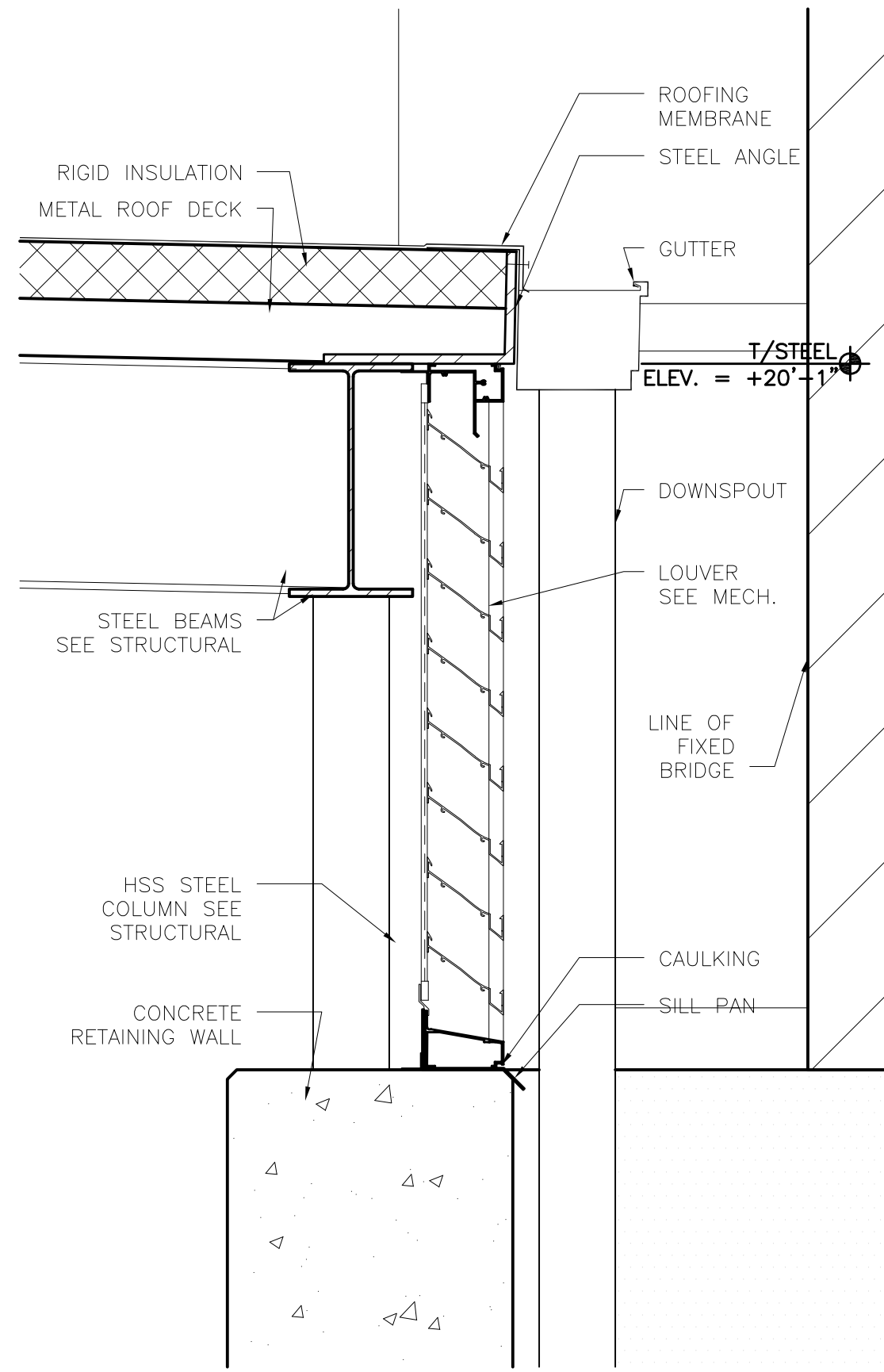
1 SECTION DETAIL @ VESTIBULE
1 1/2" = 1'-0"



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"

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DULUTH, MN**

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CONSULTANTS

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SEAL

REVISIONS

[illegible]

DATE ISSUED: 02-15-10

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DESIGNED BY: XX

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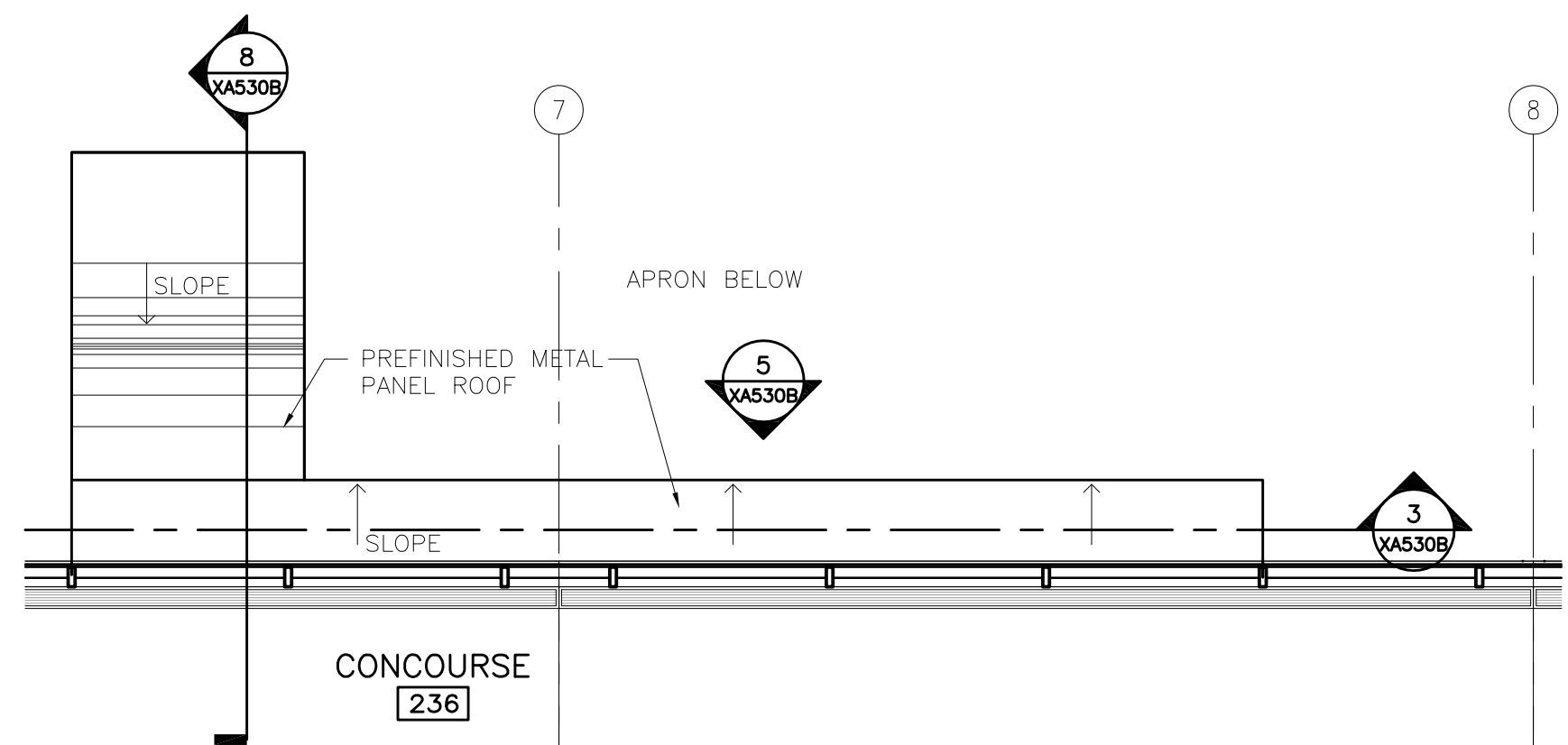
SHEET TITLE

EXTERIOR SYSTEMS VERTICAL CIRCULATION

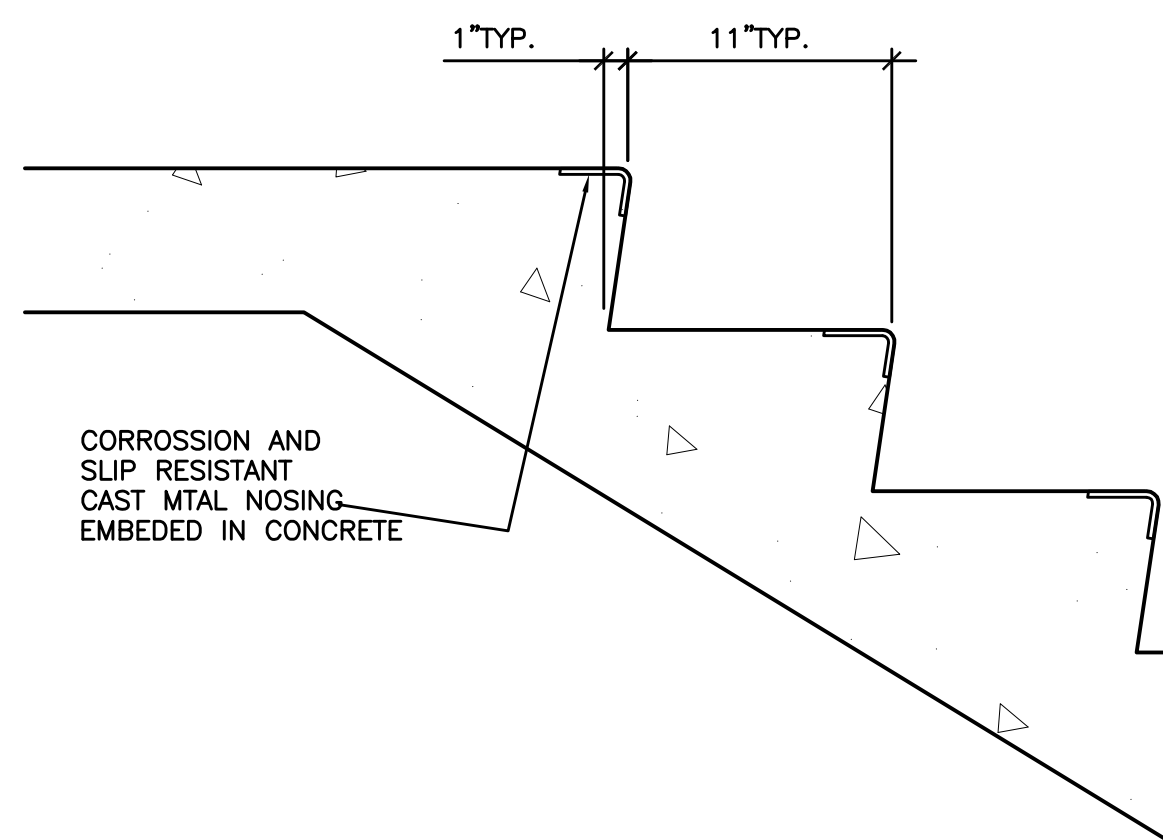
SHEET NUMBER

A530

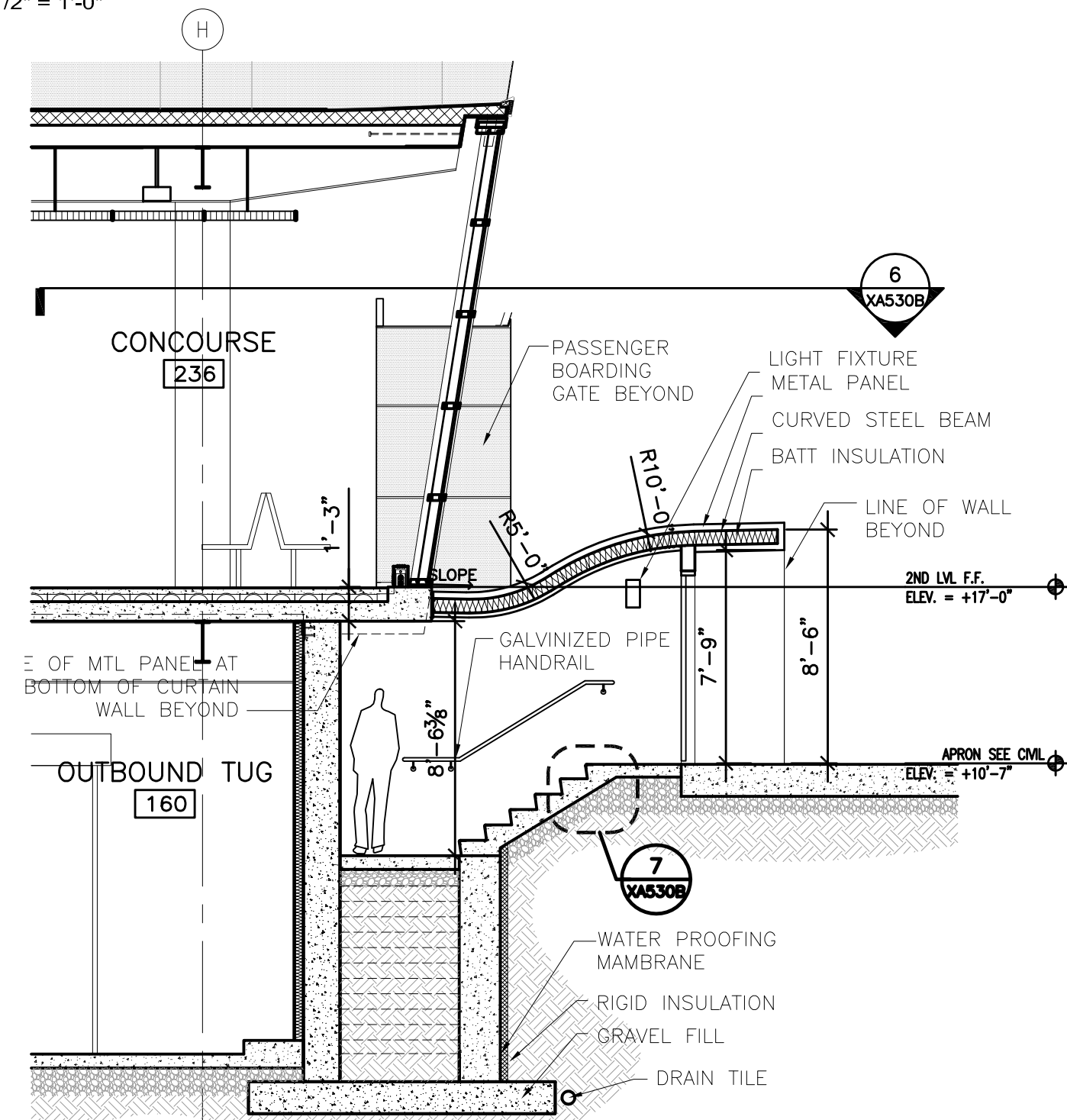
60% NOT FOR CONSTRUCTION



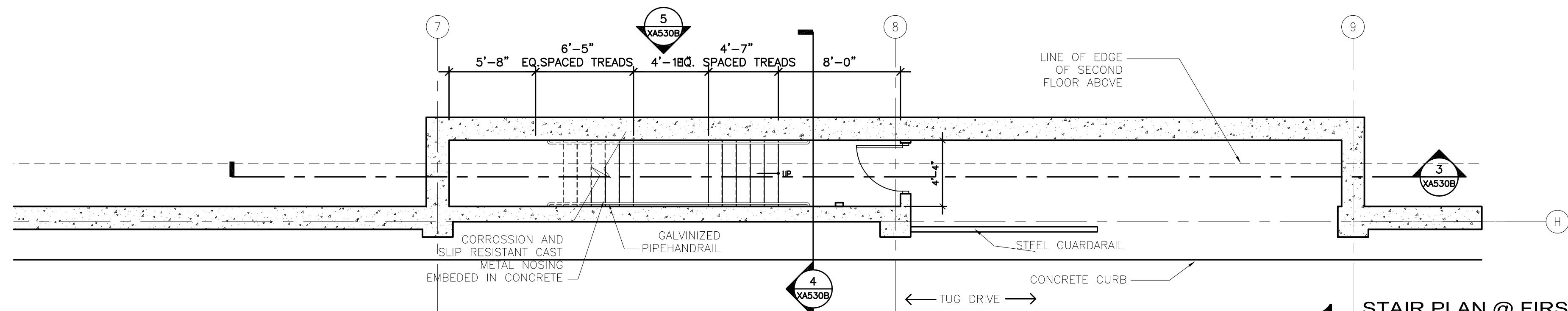
6 SECOND LEVEL PARTIAL FLOOR PLAN AND STAIR ROOF PLAN



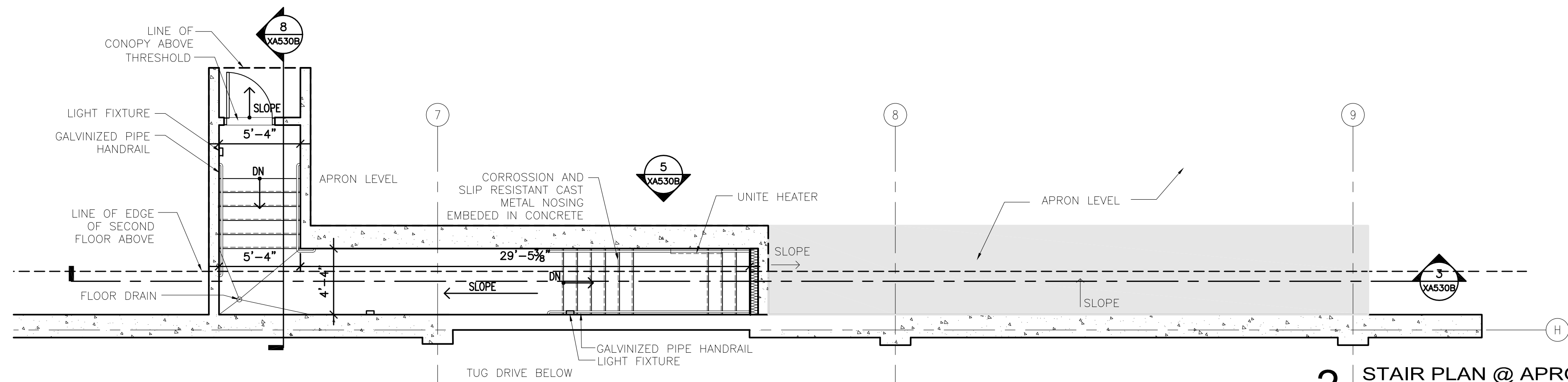
7 STAIR SECTION DETAIL



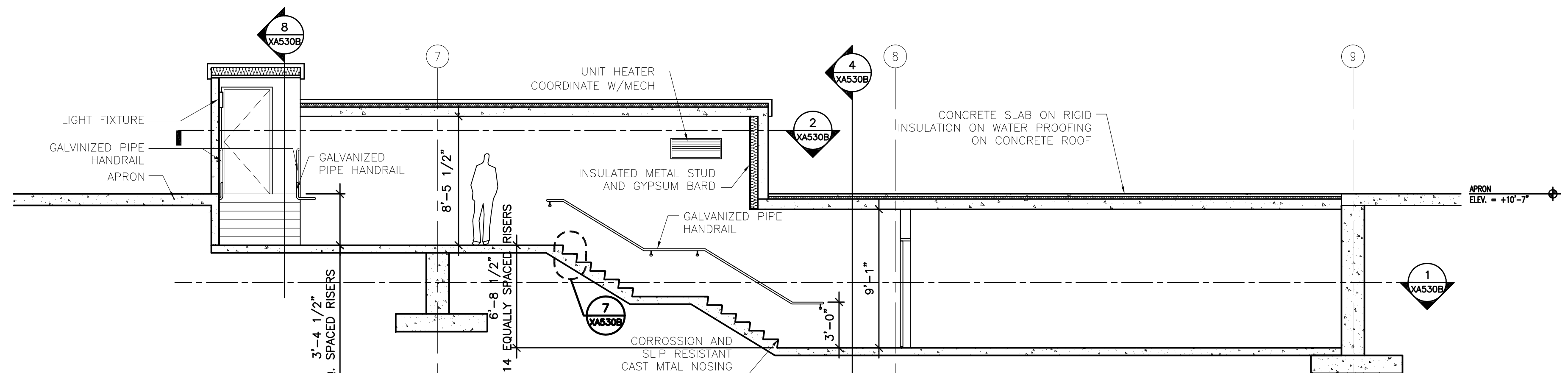
8 SECTION
3/16" = 1'-0"



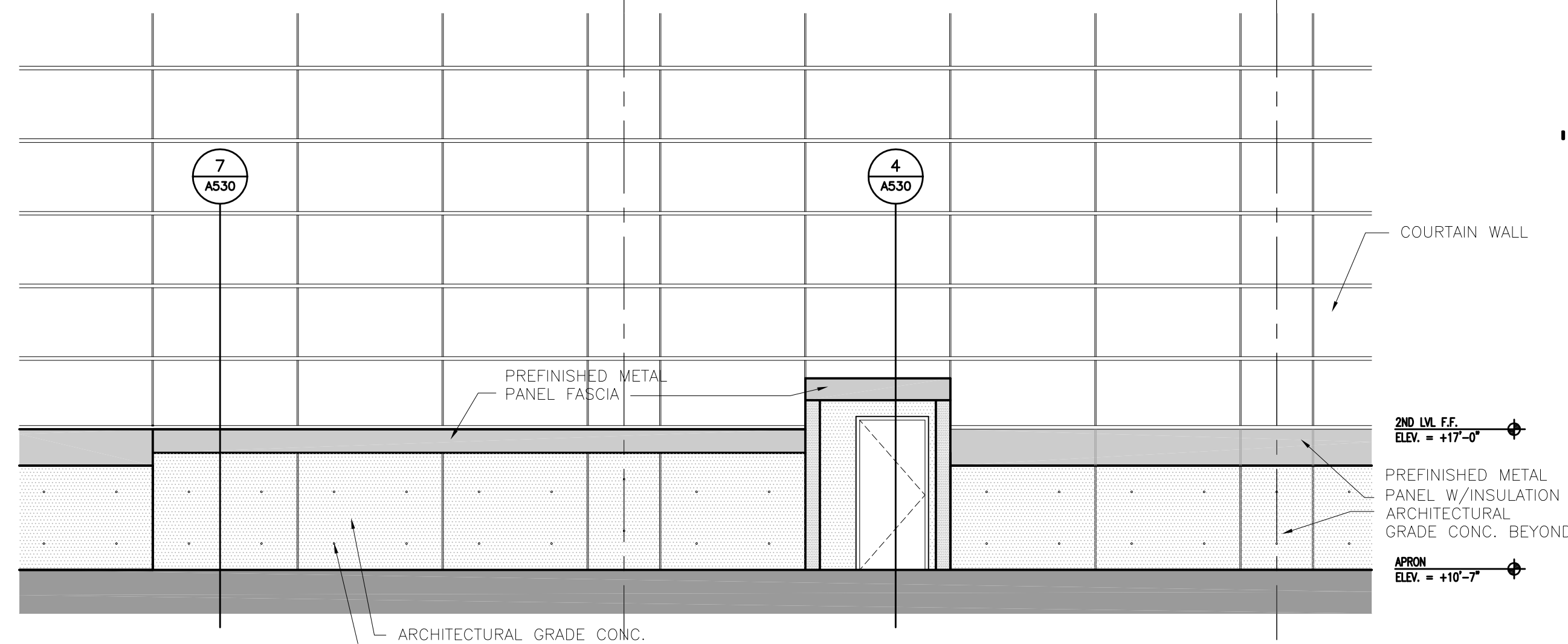
1 STAIR PLAN @ FIRST LEVEL



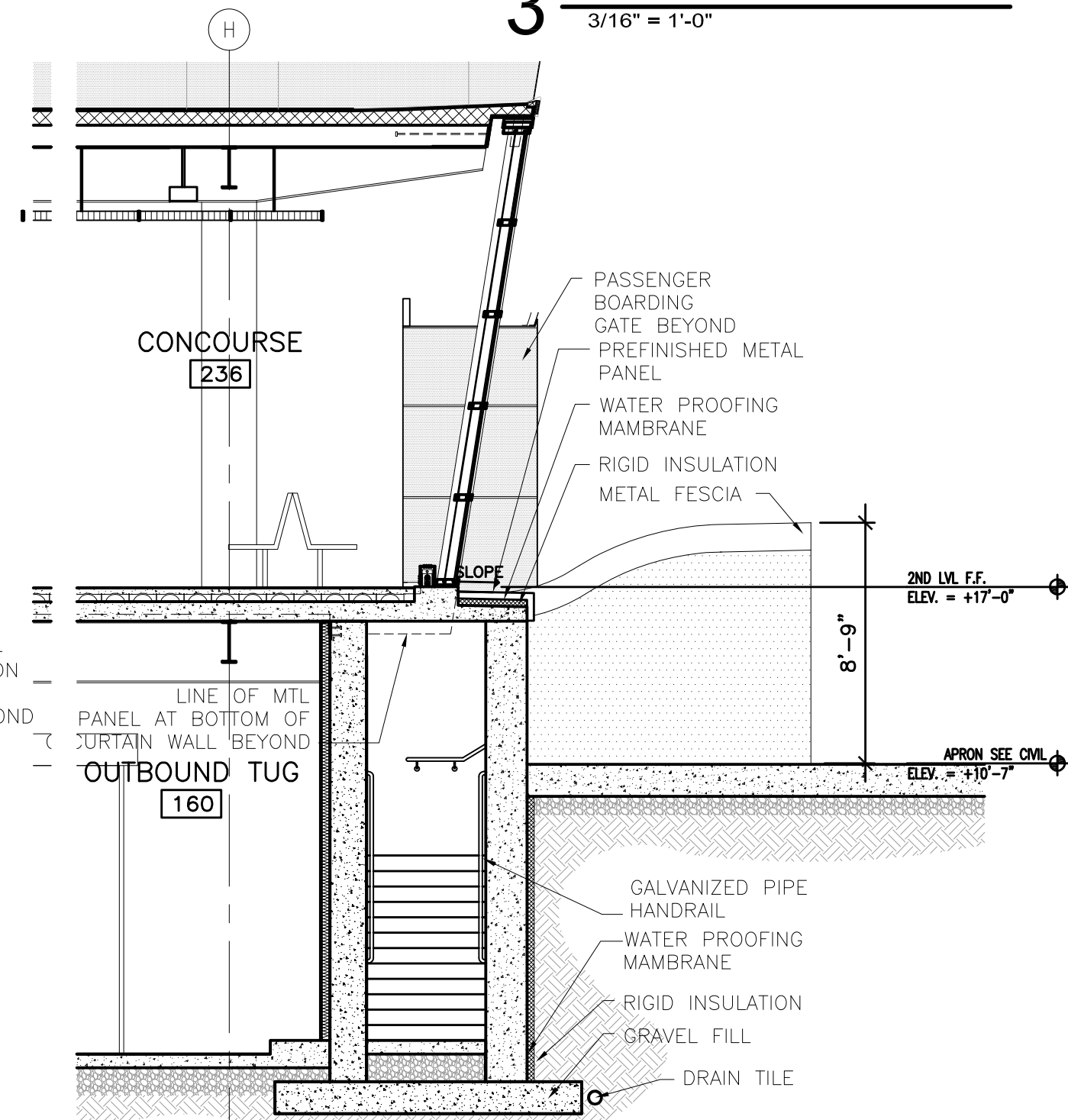
2 | STAIR PLAN @ APRON LEVEL



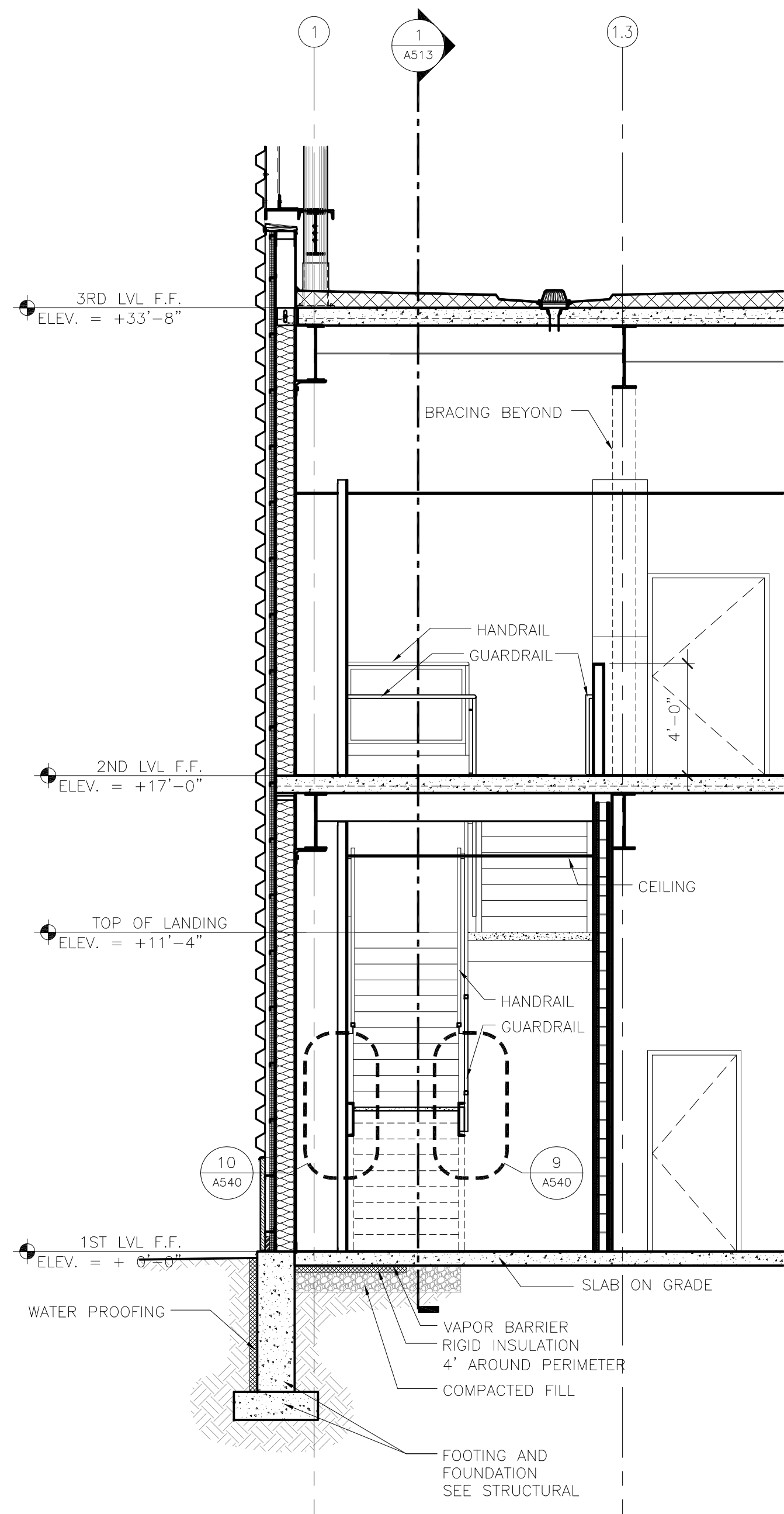
3 LONGITUDINAL SECTION



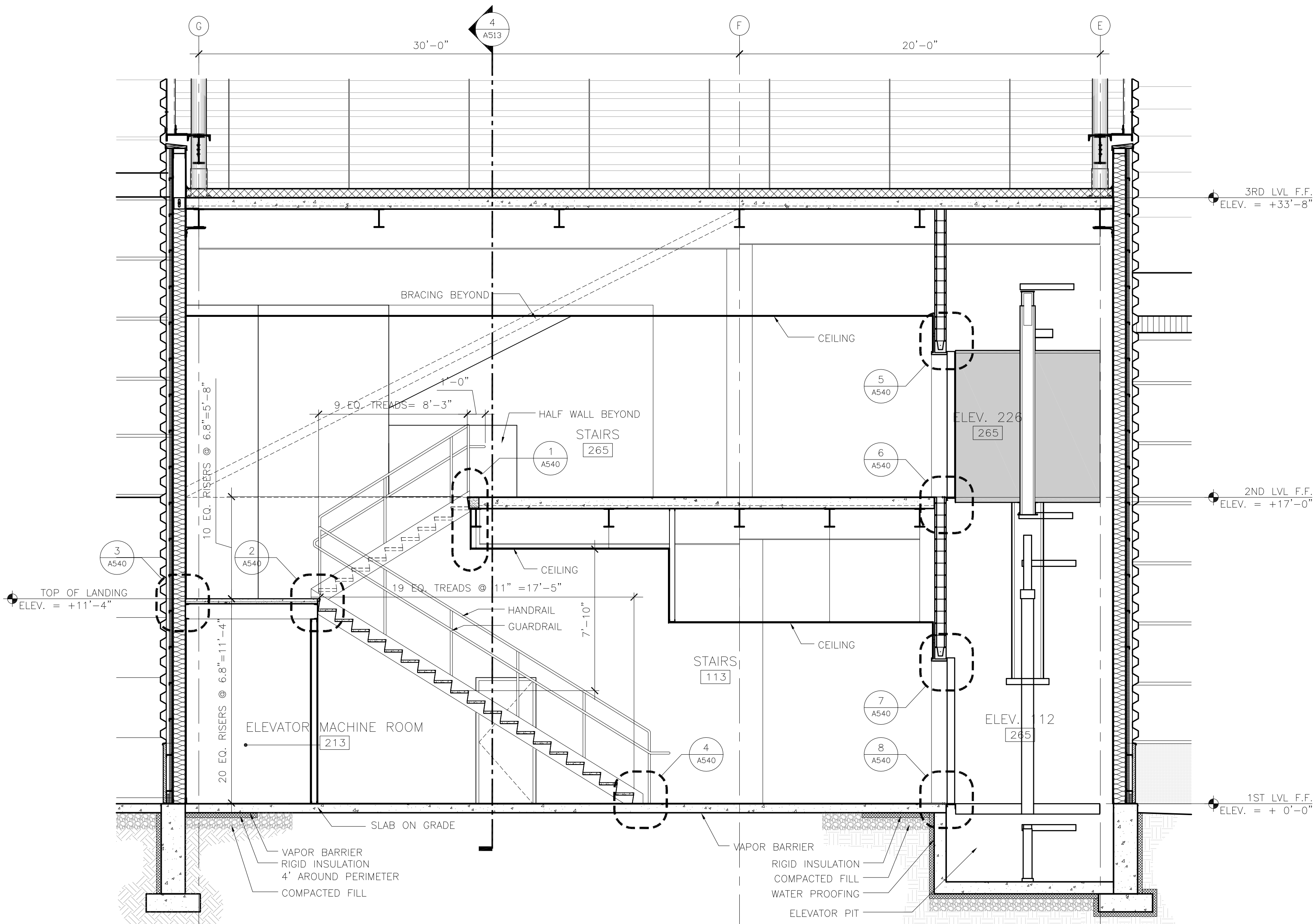
5 PARTIAL NORTH ELEVATION
3/16" = 1'-0"



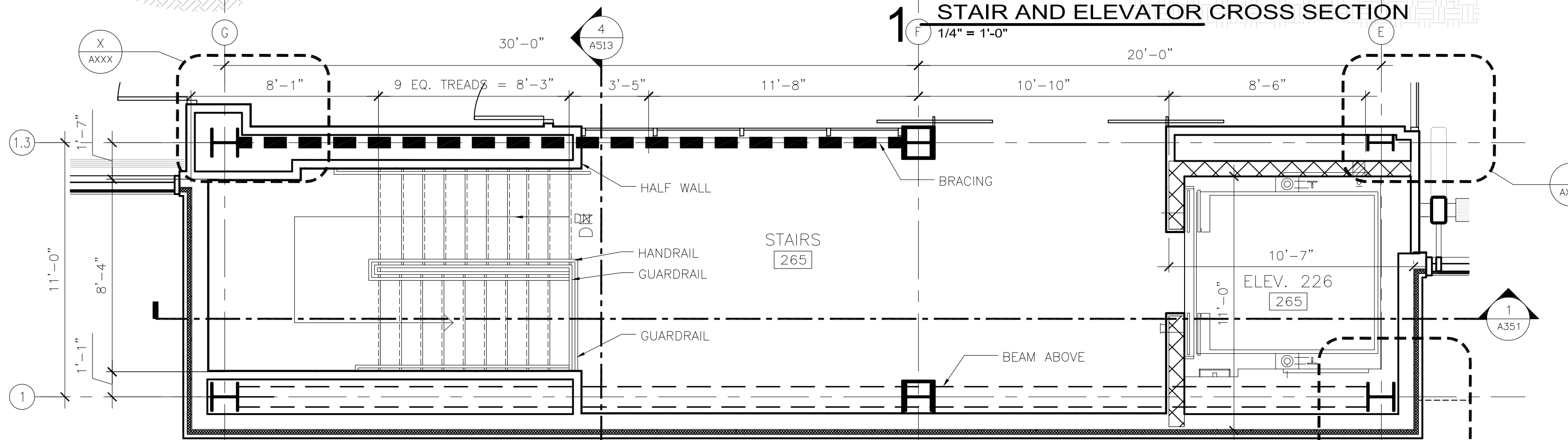
4 SECTION



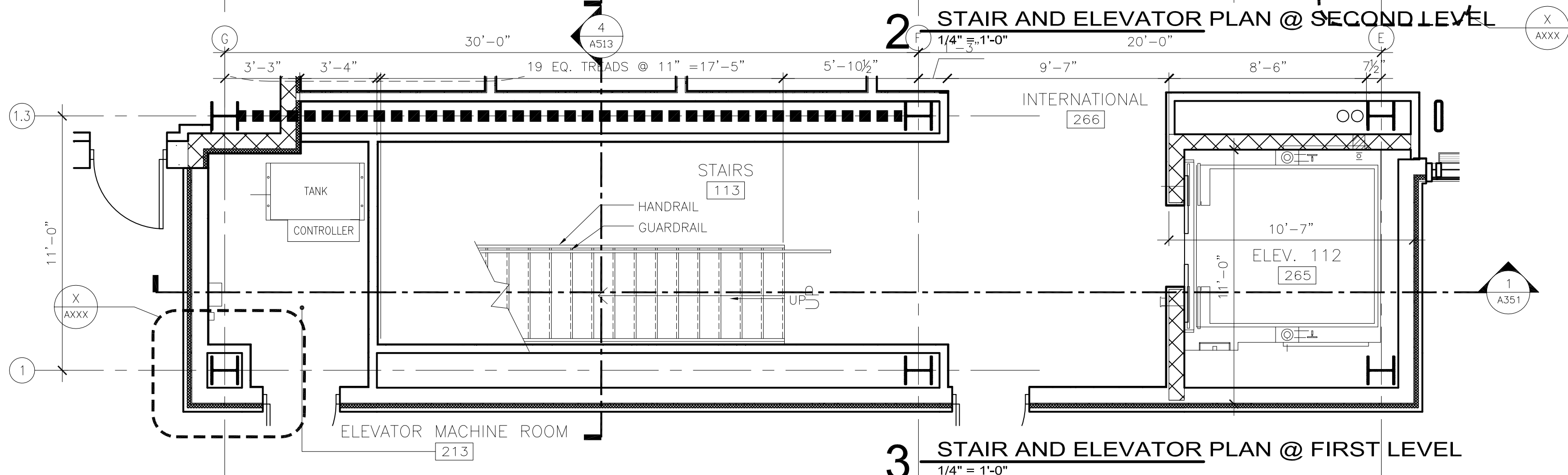
4 STAIR LONGITUDNAL SECTION
1/4" = 1'-0"



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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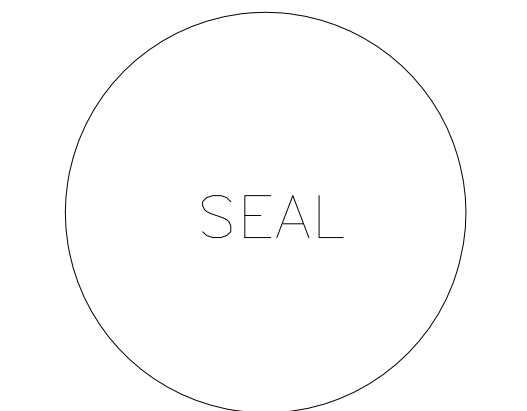
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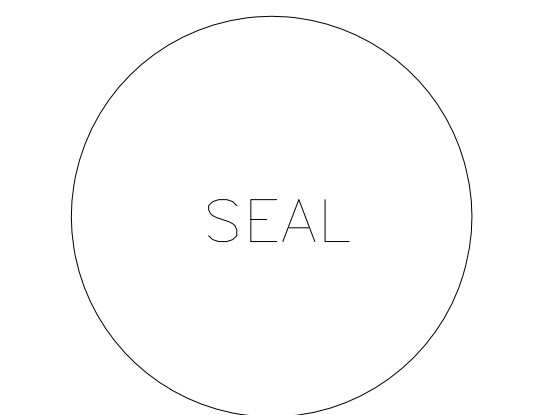
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AMP PROJECT NUMBER
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SHEET TITLE
**INTERIOR SYSTEMS
VERTICAL
CIRCULATION**

SHEET NUMBER
A531

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CONSTRUCTION**



REVISIONS		
NO.	DESCRIPTION	DATE

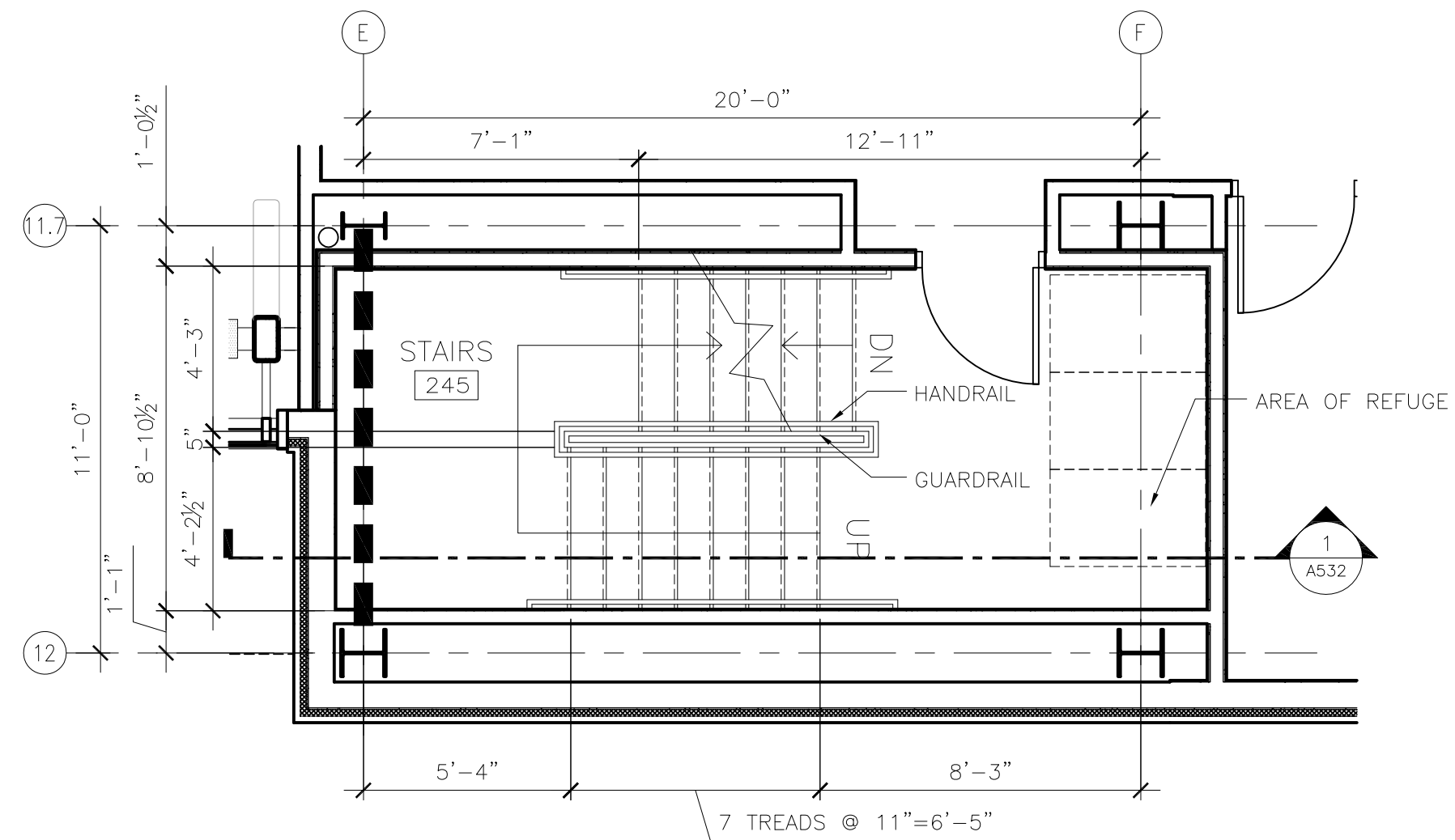
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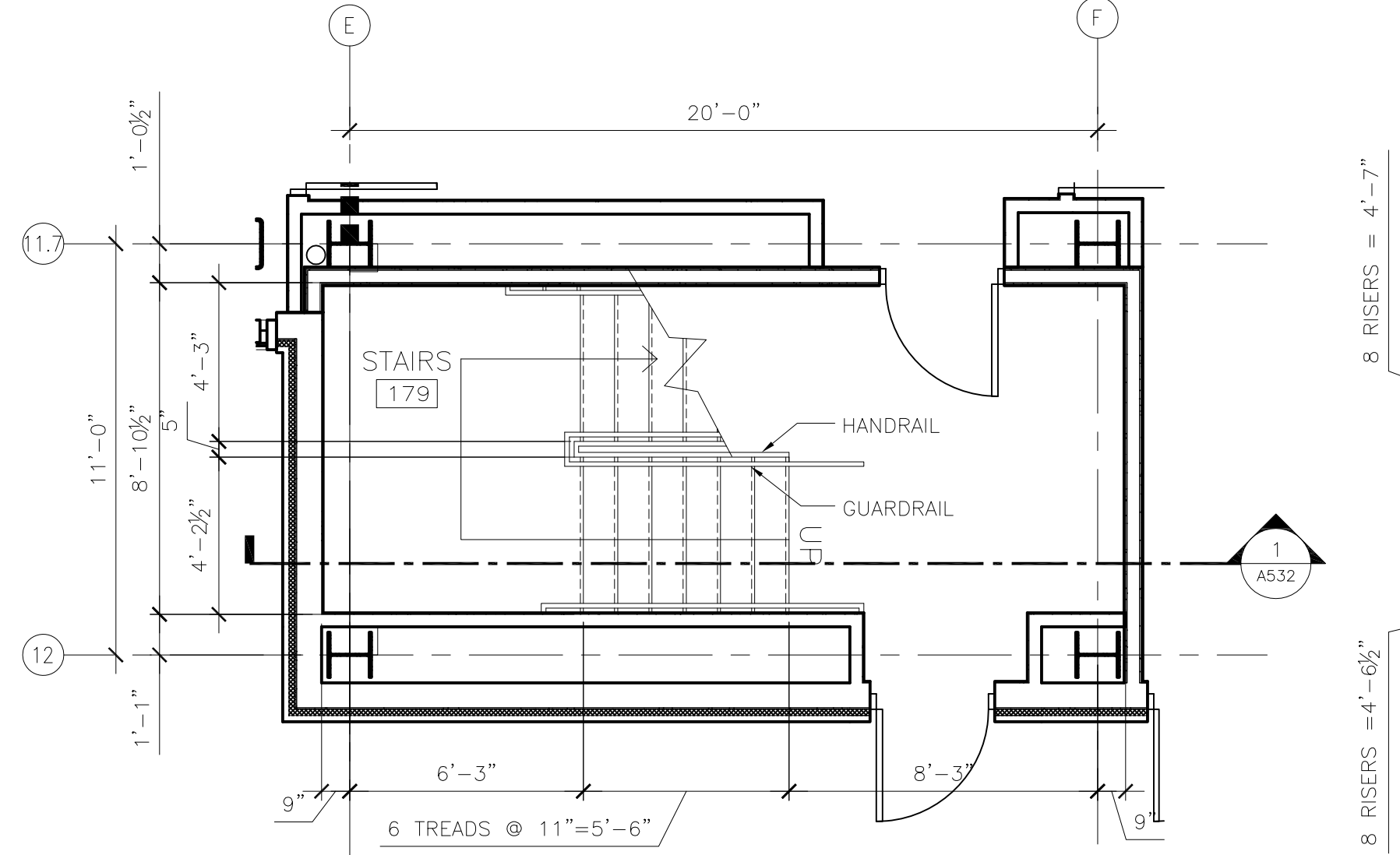
SHEET TITLE
**INTERIOR SYSTEMS
VERTICAL
CIRCULATION**

SHEET NUMBER
A532

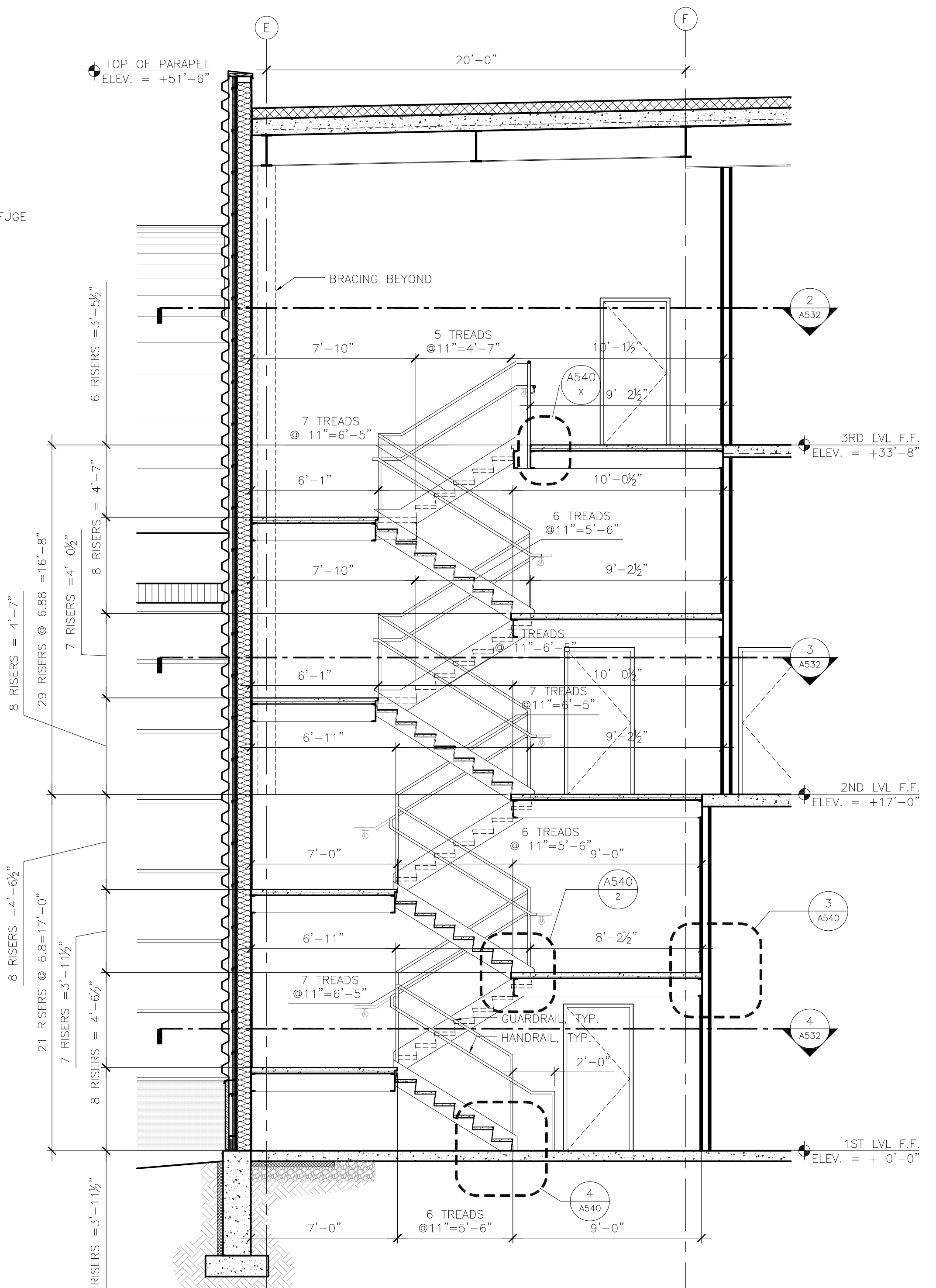
**60% NOT FOR
CONSTRUCTION**



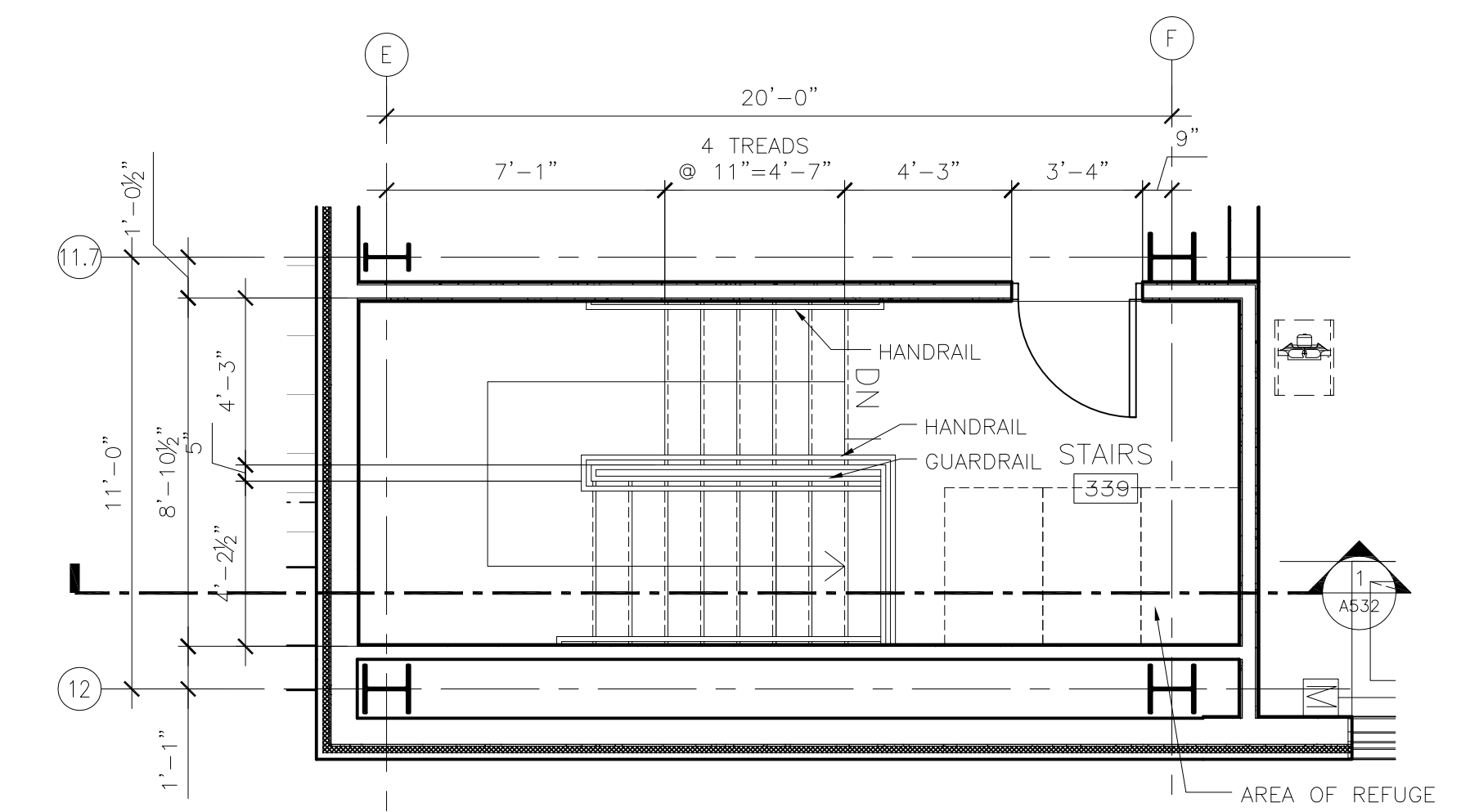
3 STAIR PLAN @ SECOND LEVEL
1/4" = 1'-0"



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"

CONSULTANTS

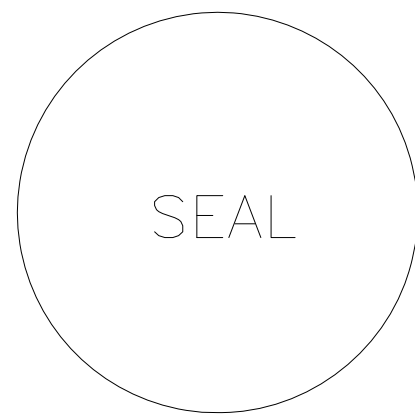
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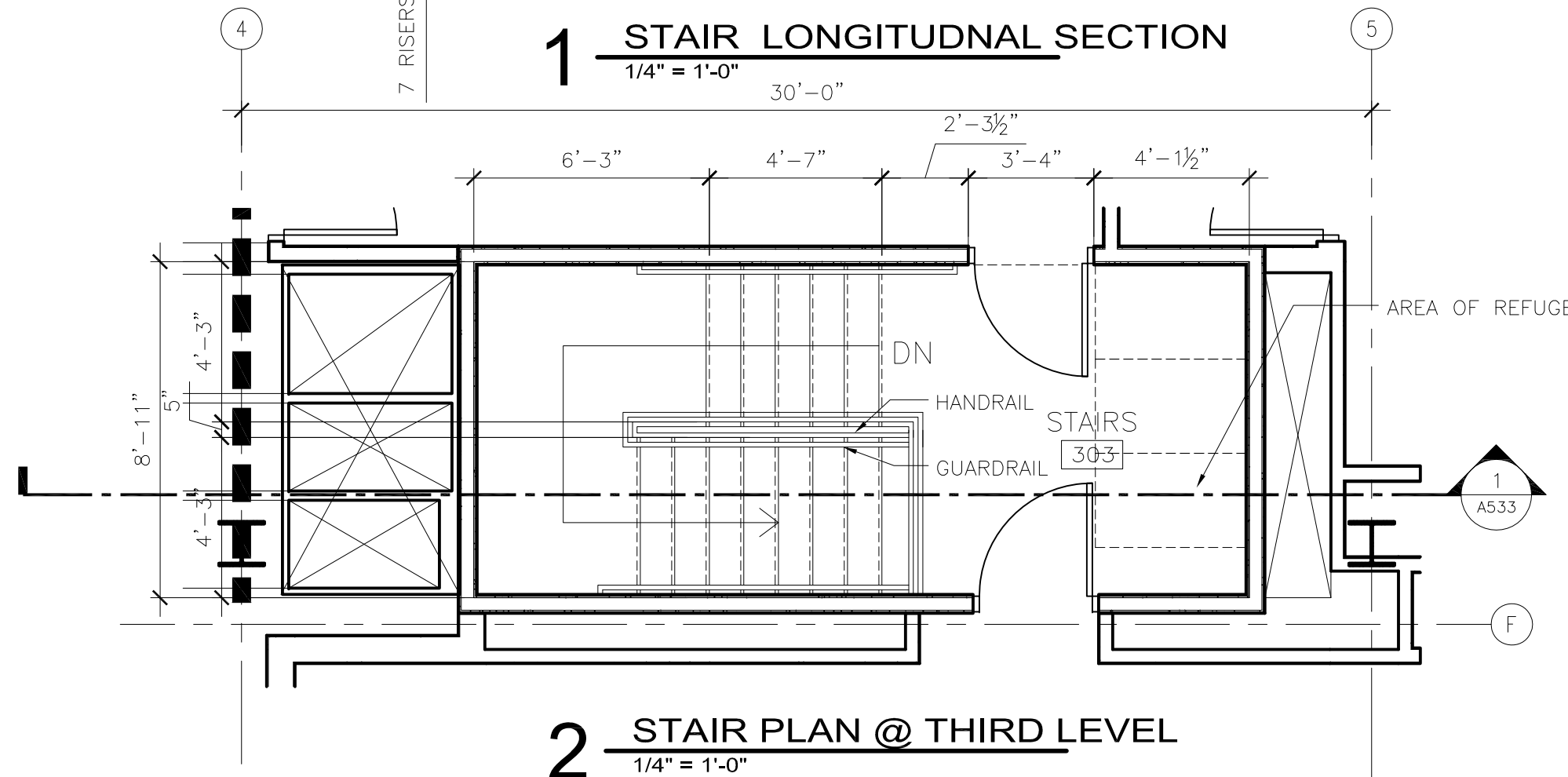
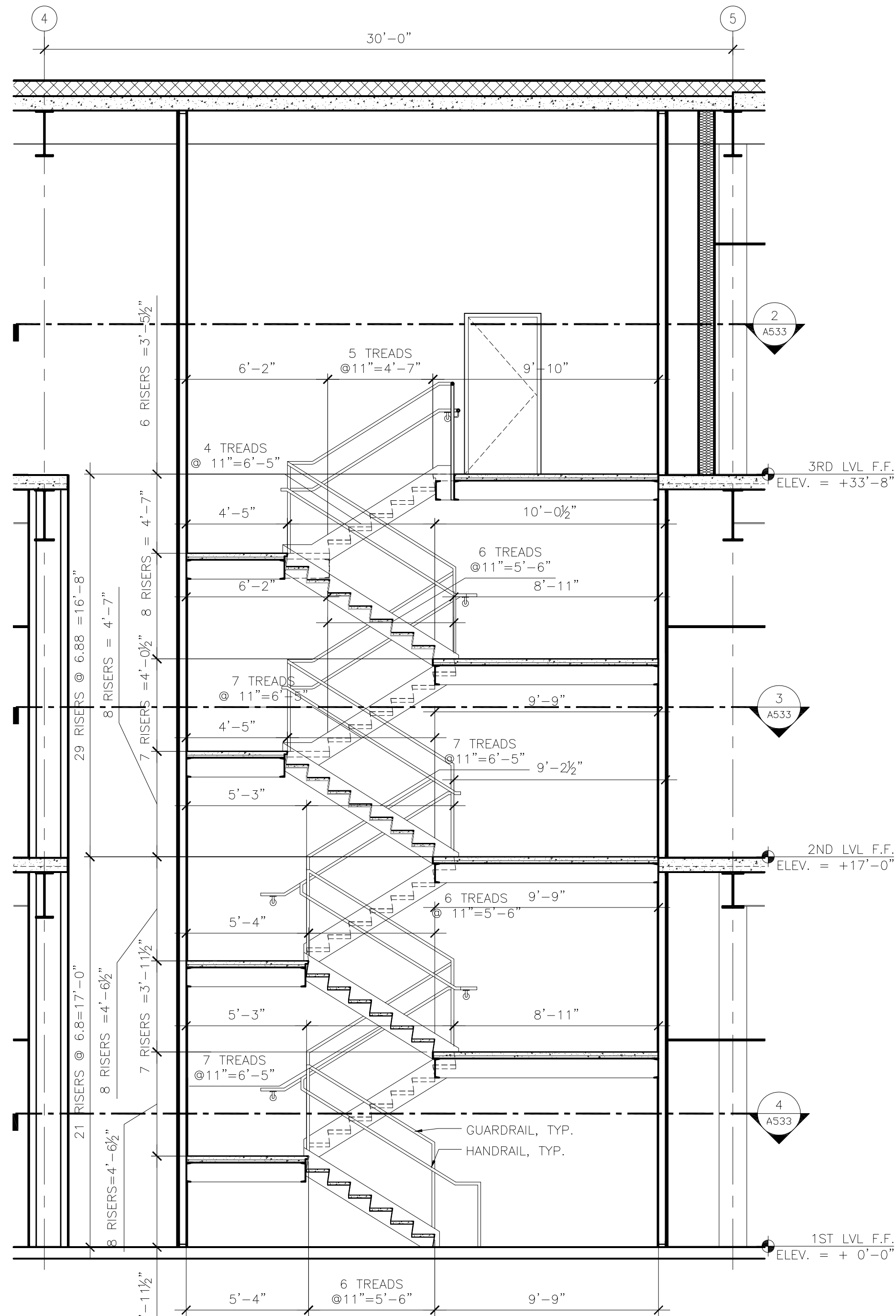
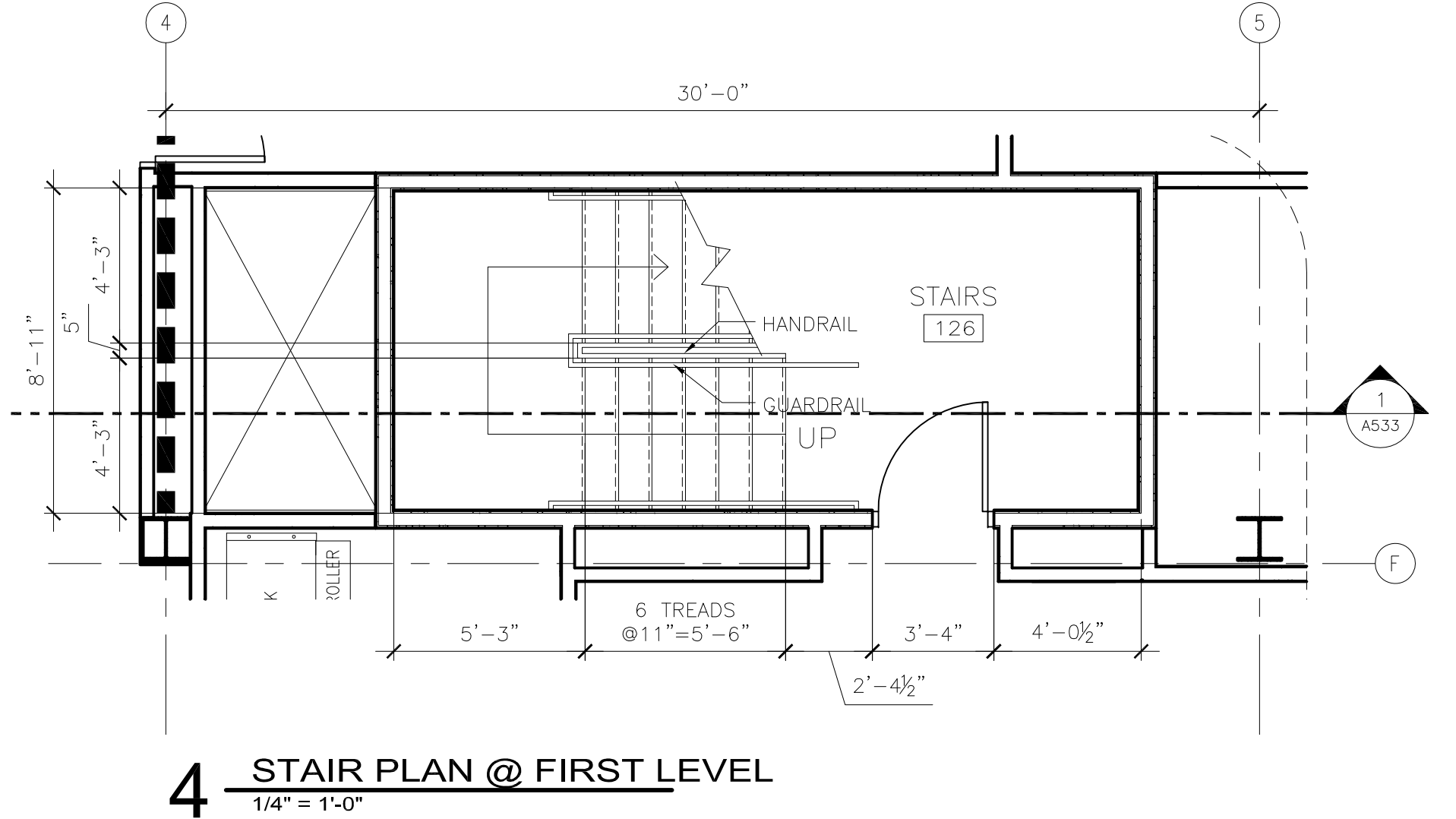
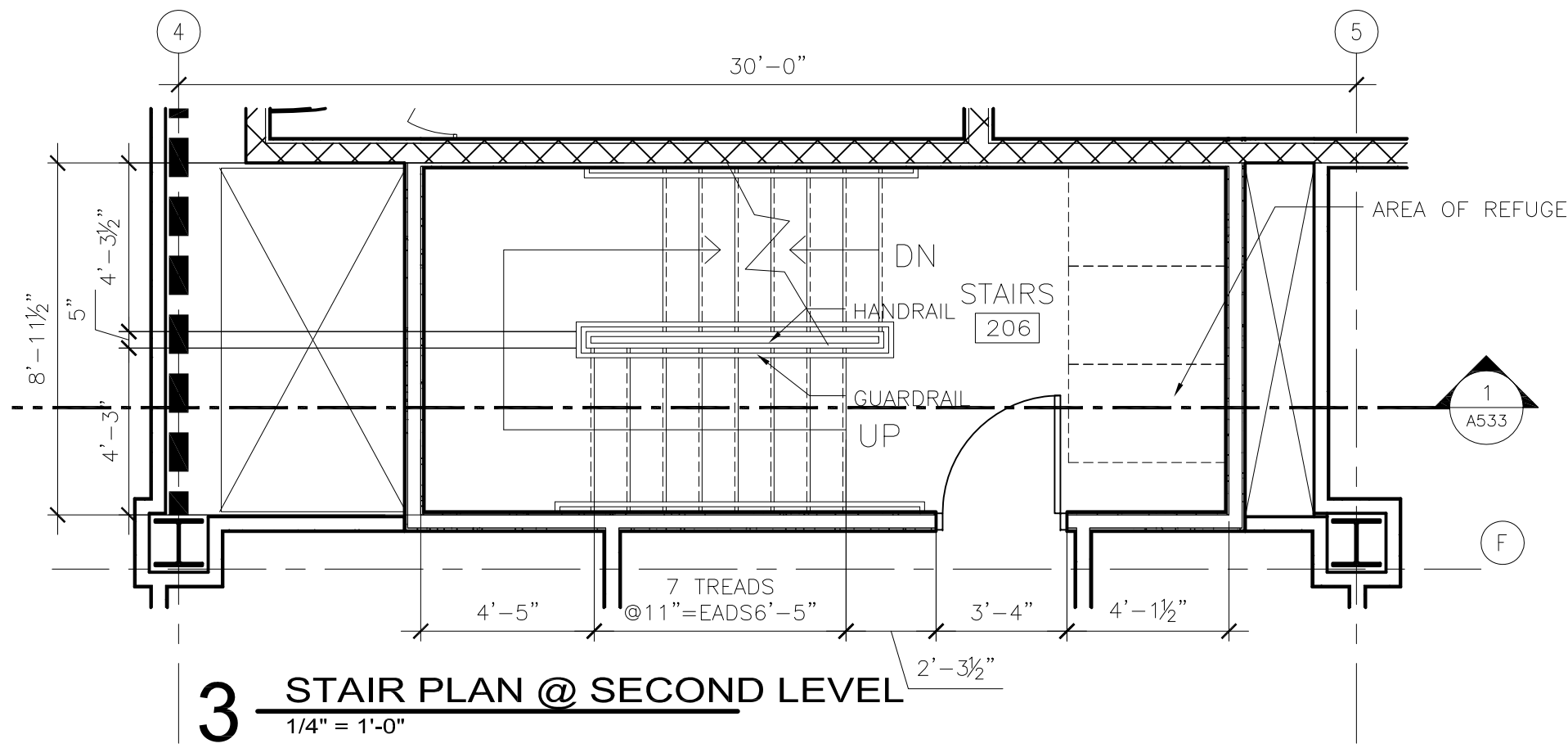
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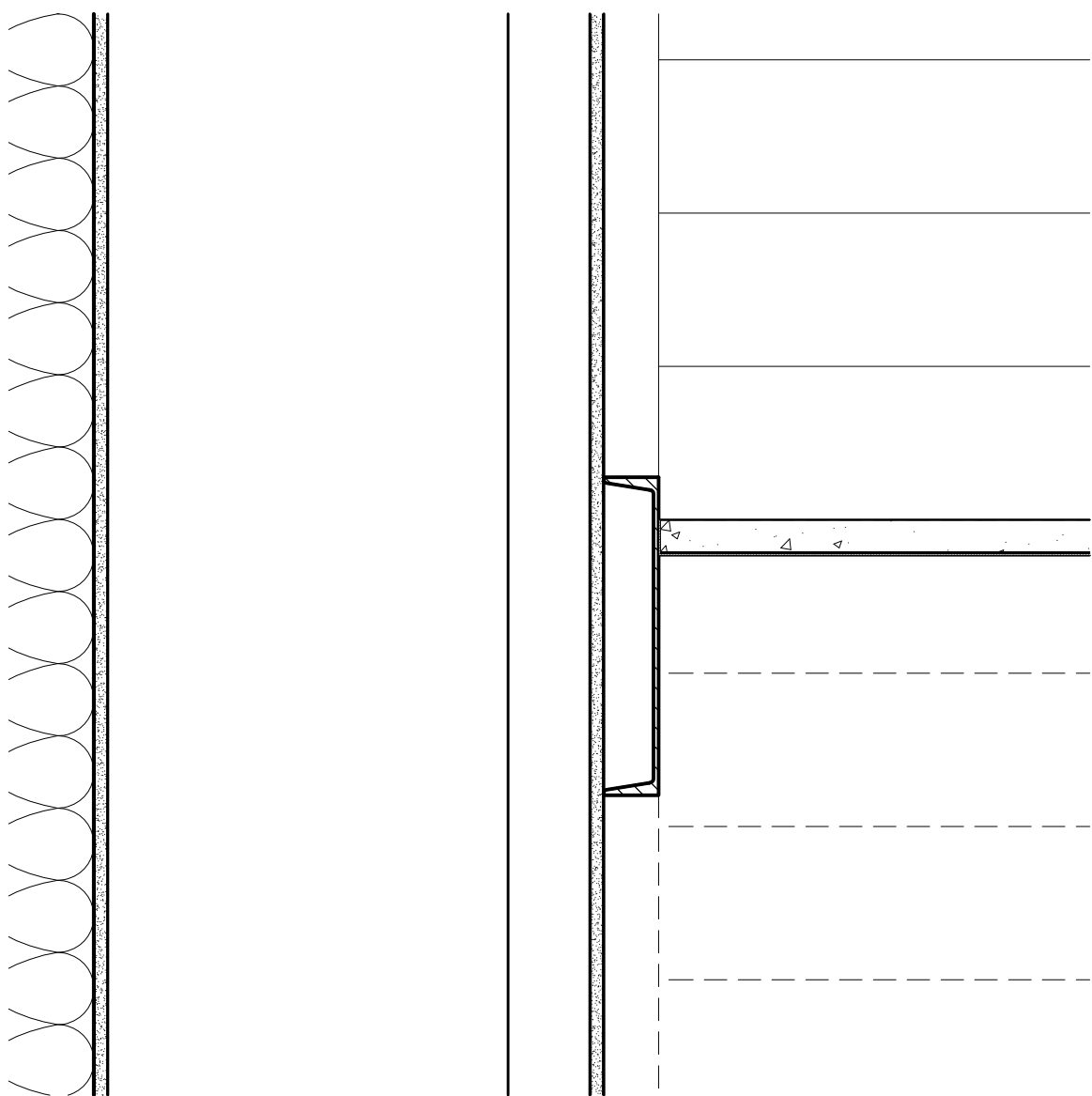
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SHEET TITLE
**INTERIOR SYSTEMS
VERTICAL
CIRCULATION**
-

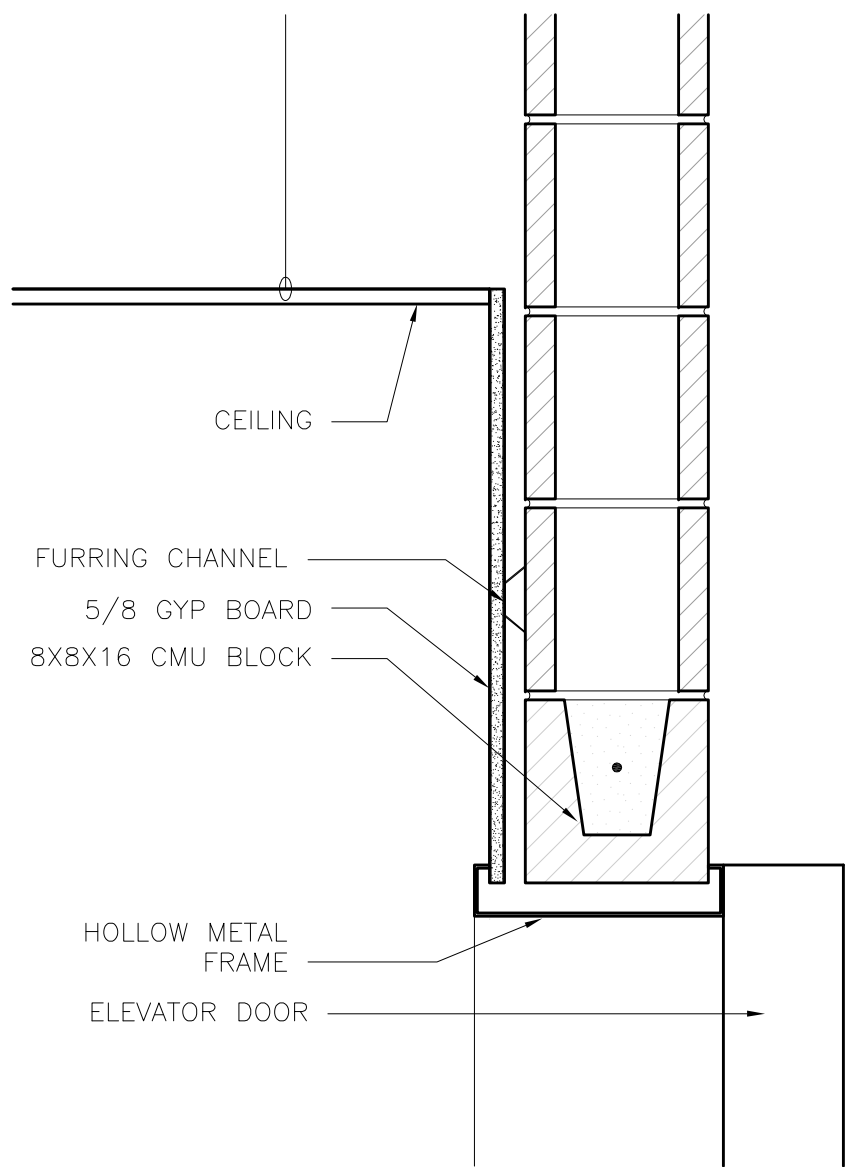
SHEET NUMBER
A533

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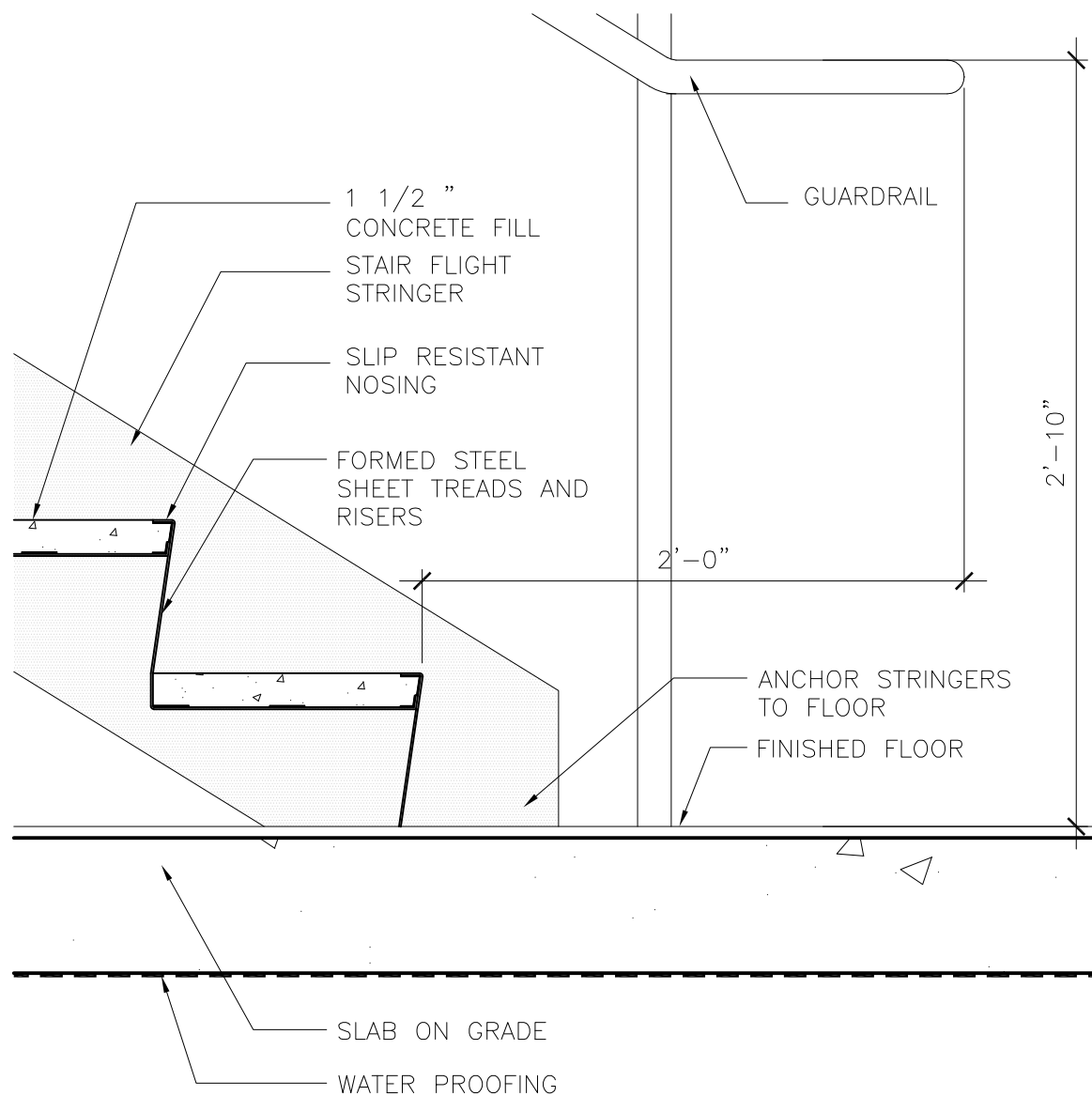




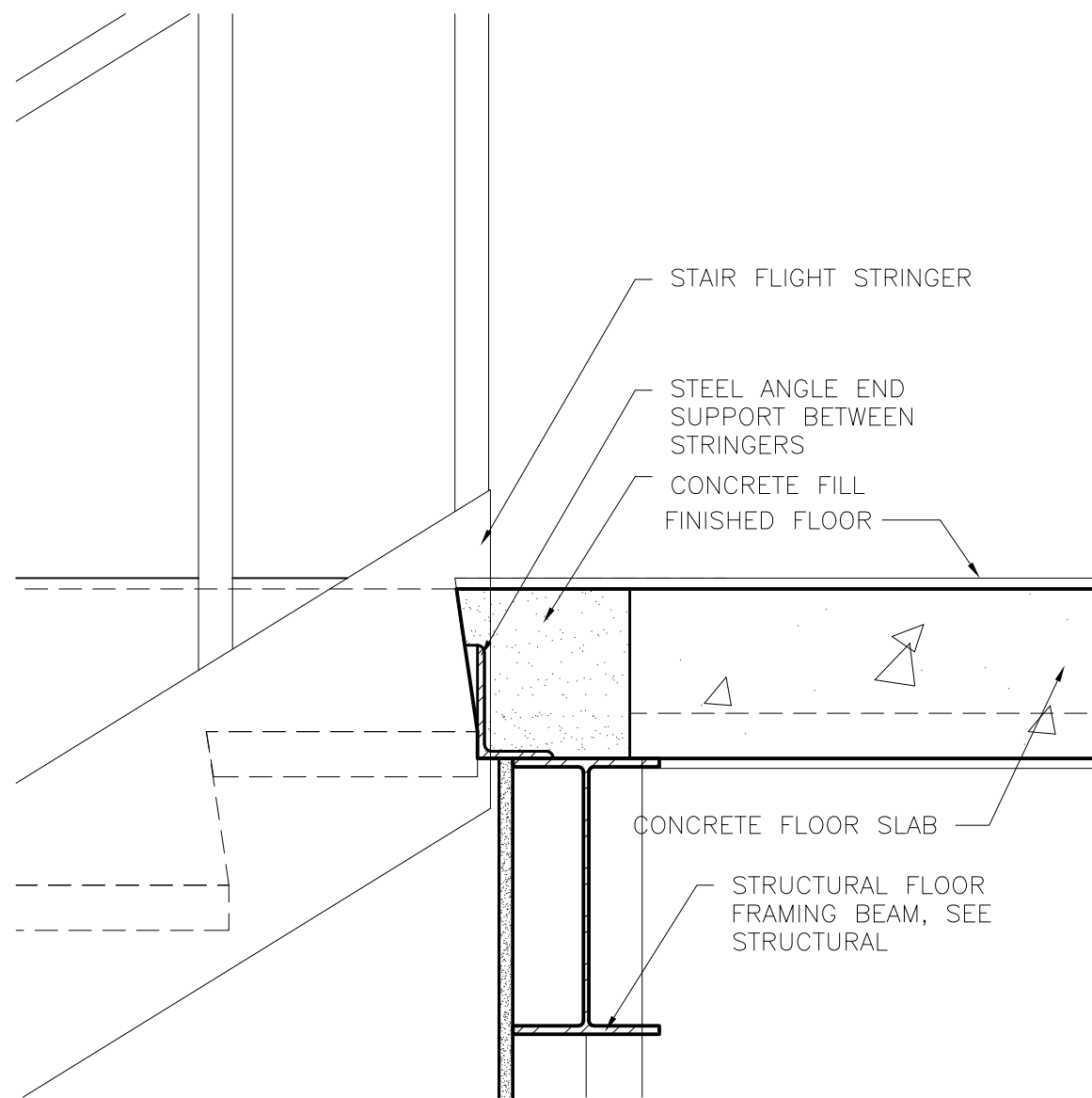
10 STRINGER TO STUD WALL DETAIL
1 1/2" = 1'-0"



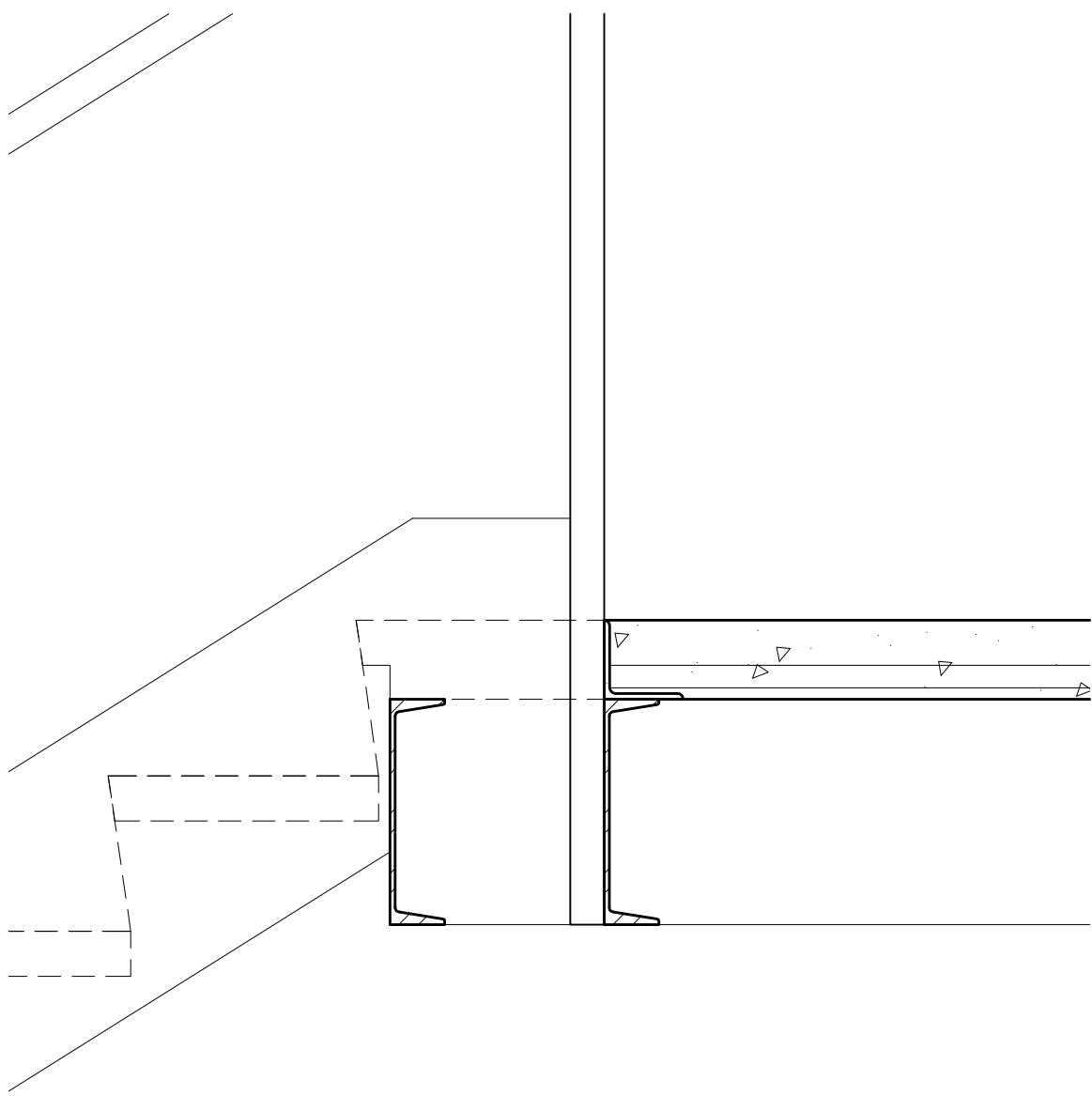
7 HEAD DETAIL @ ELEVATOR FIRST LEVEL
1 1/2" = 1'-0"



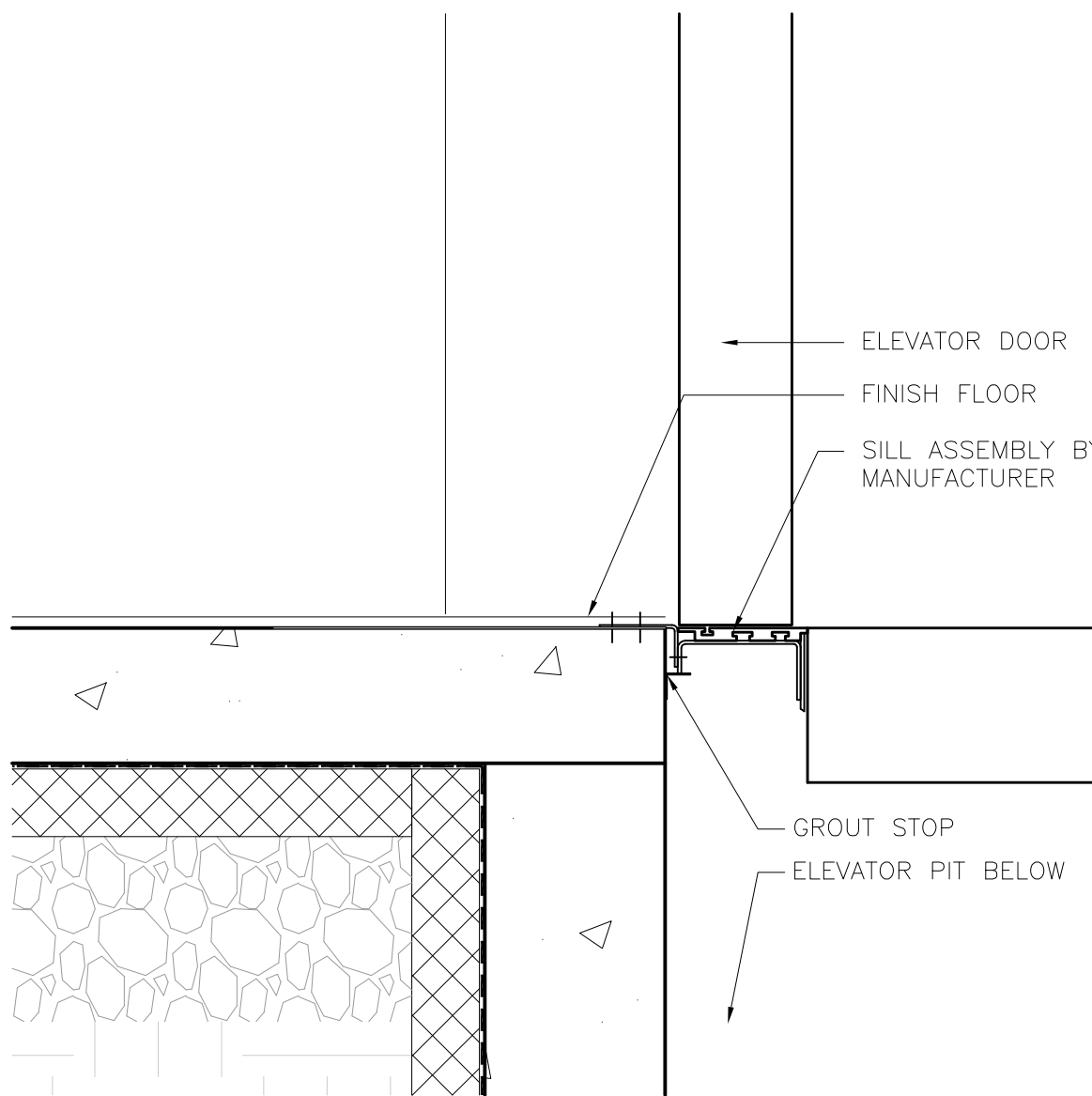
4 STAIR STRINGER @ FIRST LEVEL
1 1/2" = 1'-0"



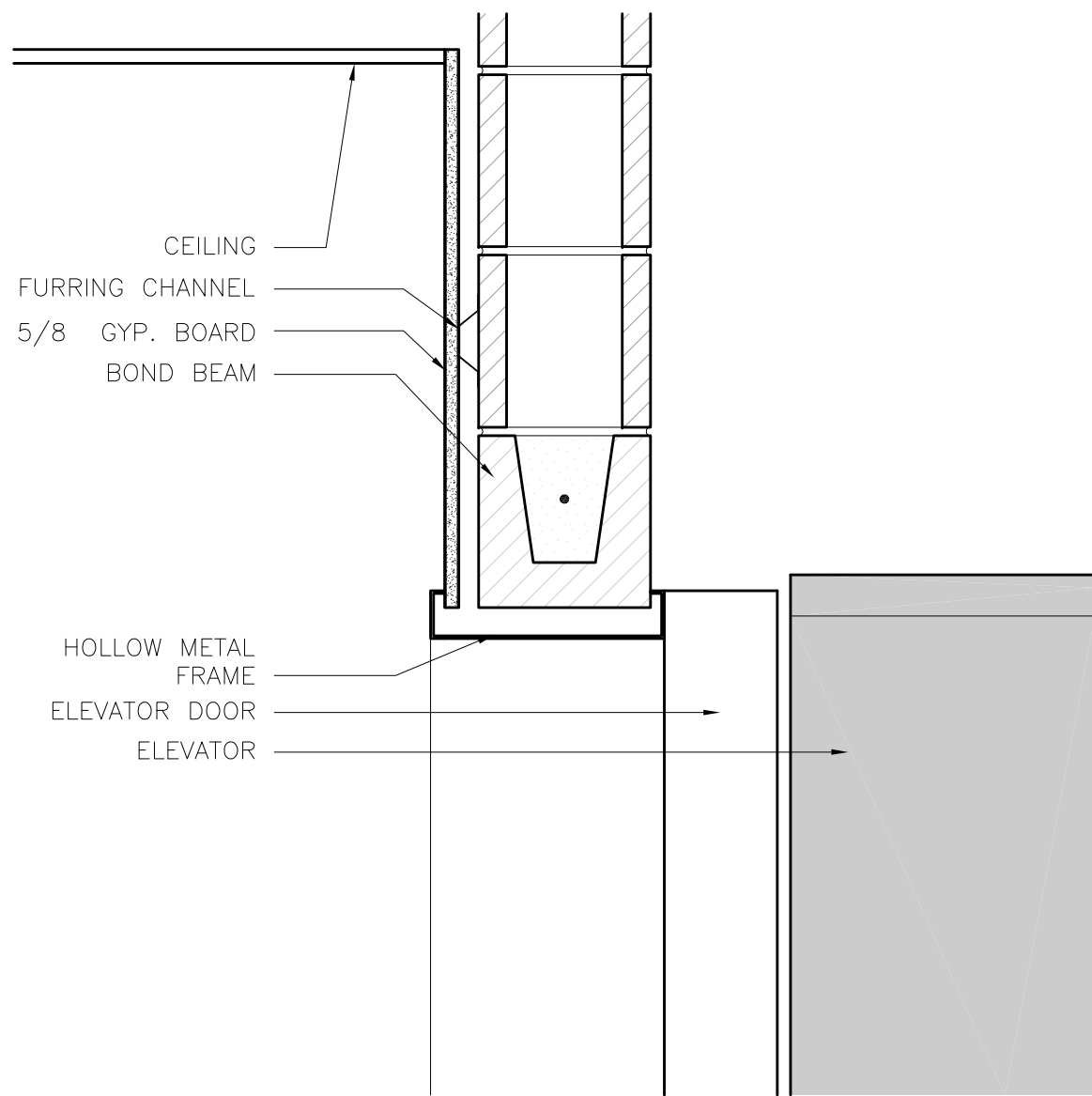
1 STAIR STRINGER @ SECOND LEVEL
1 1/2" = 1'-0"



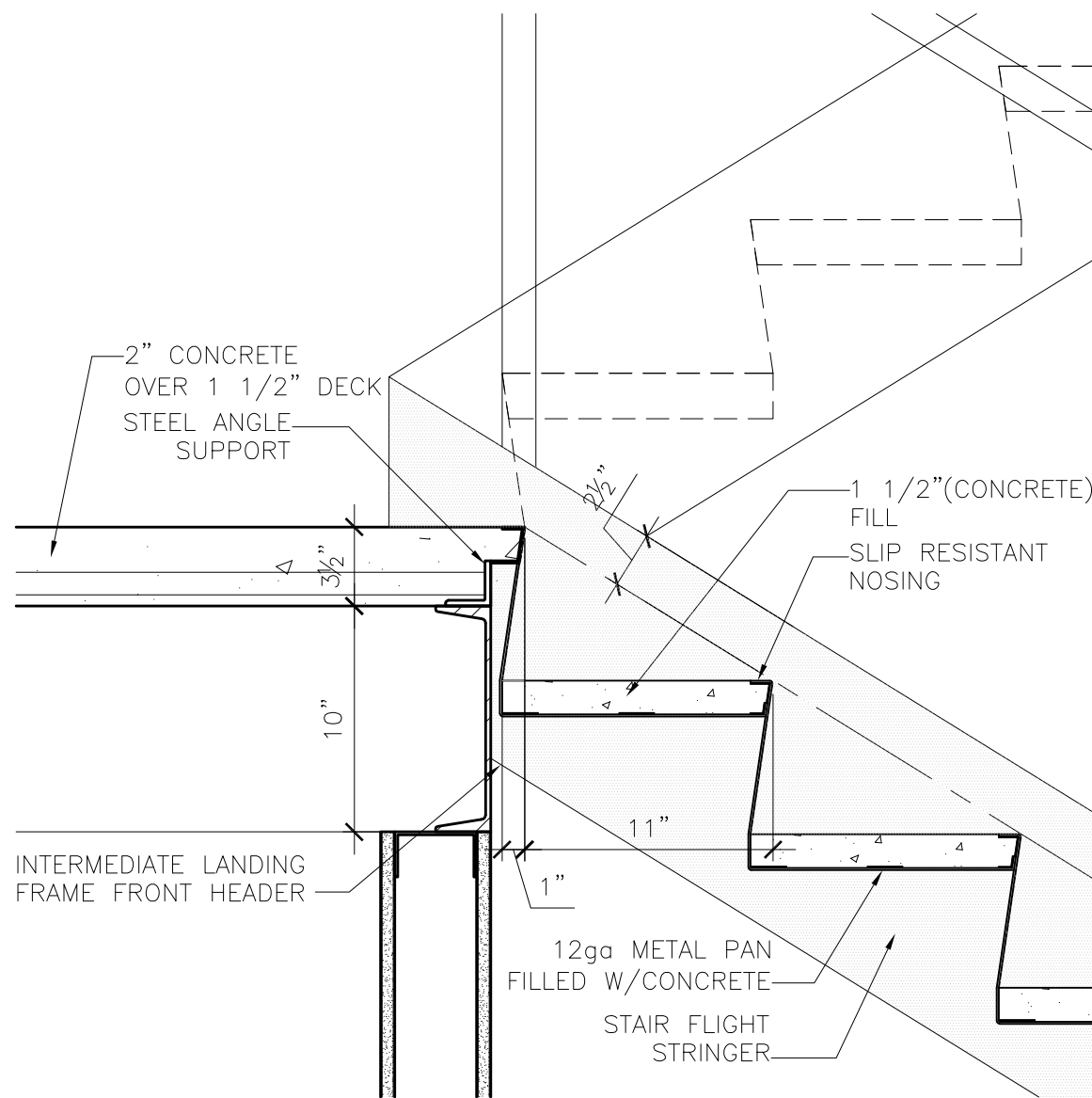
11 RAIL TERMINATION DETAIL
1 1/2" = 1'-0"



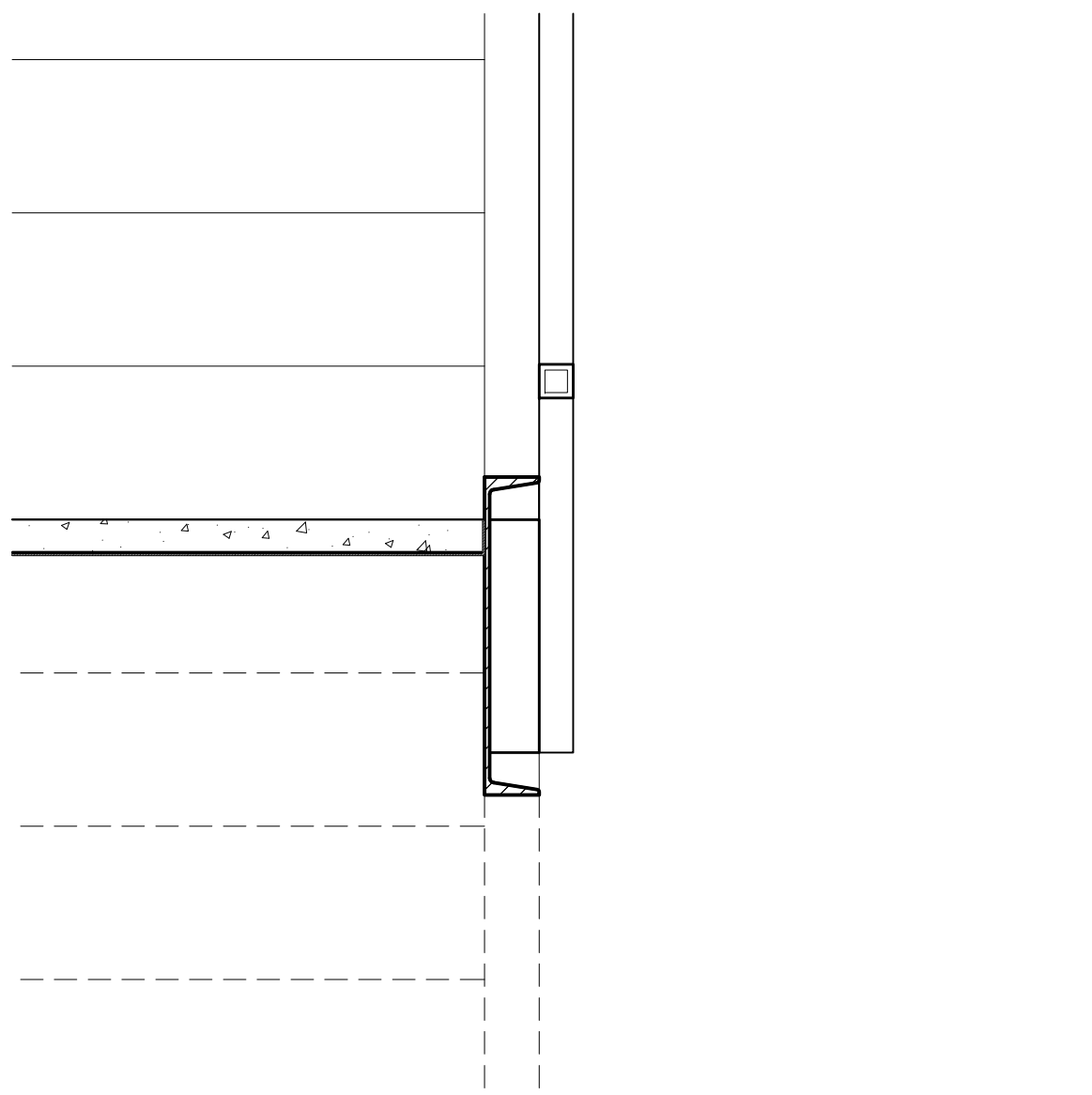
8 SILL DETAIL @ ELEVATOR FIRST LEVEL
1 1/2" = 1'-0"



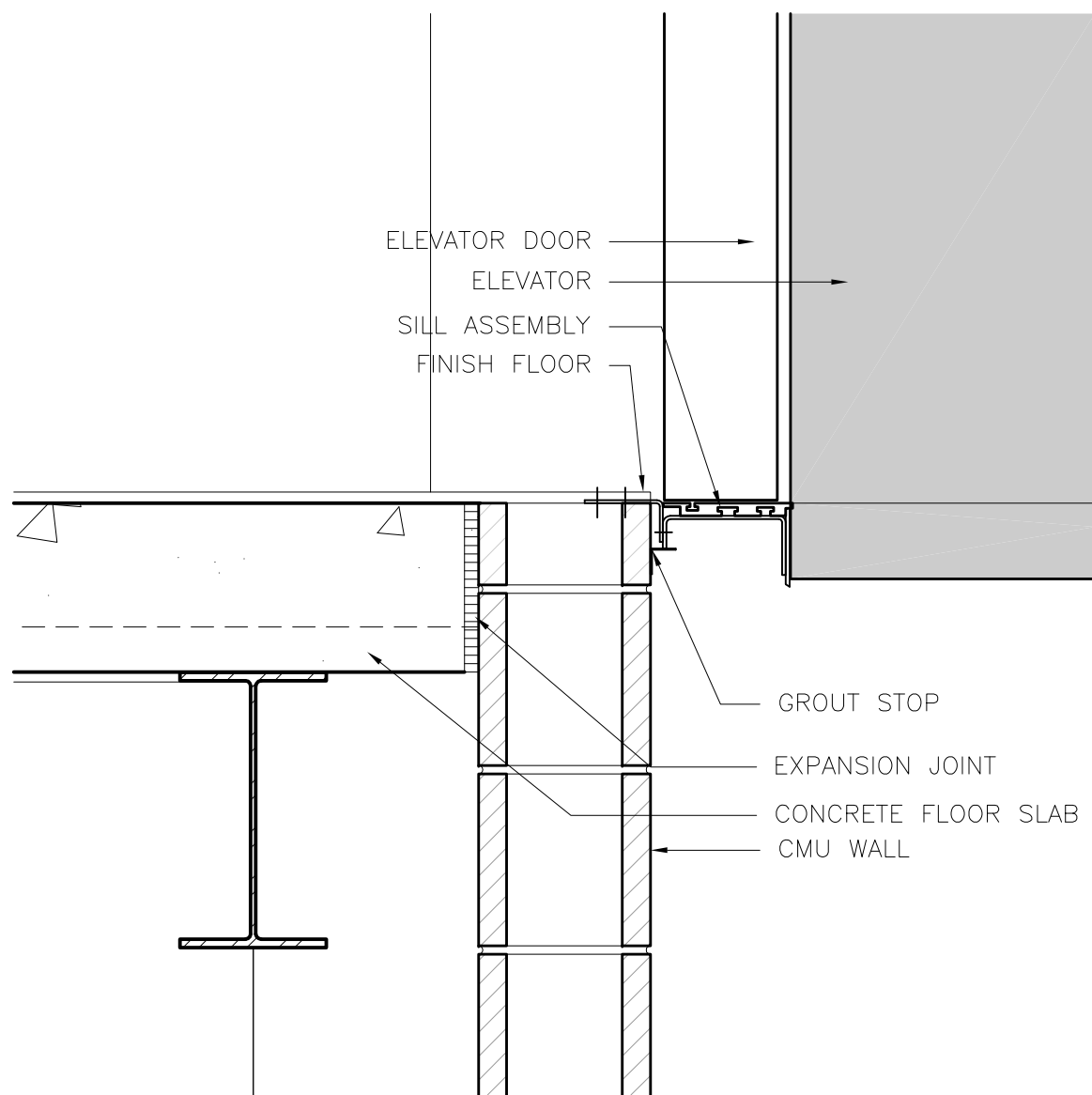
5 HEAD DETAIL @ ELEVATOR SECOND LEVEL
1 1/2" = 1'-0"



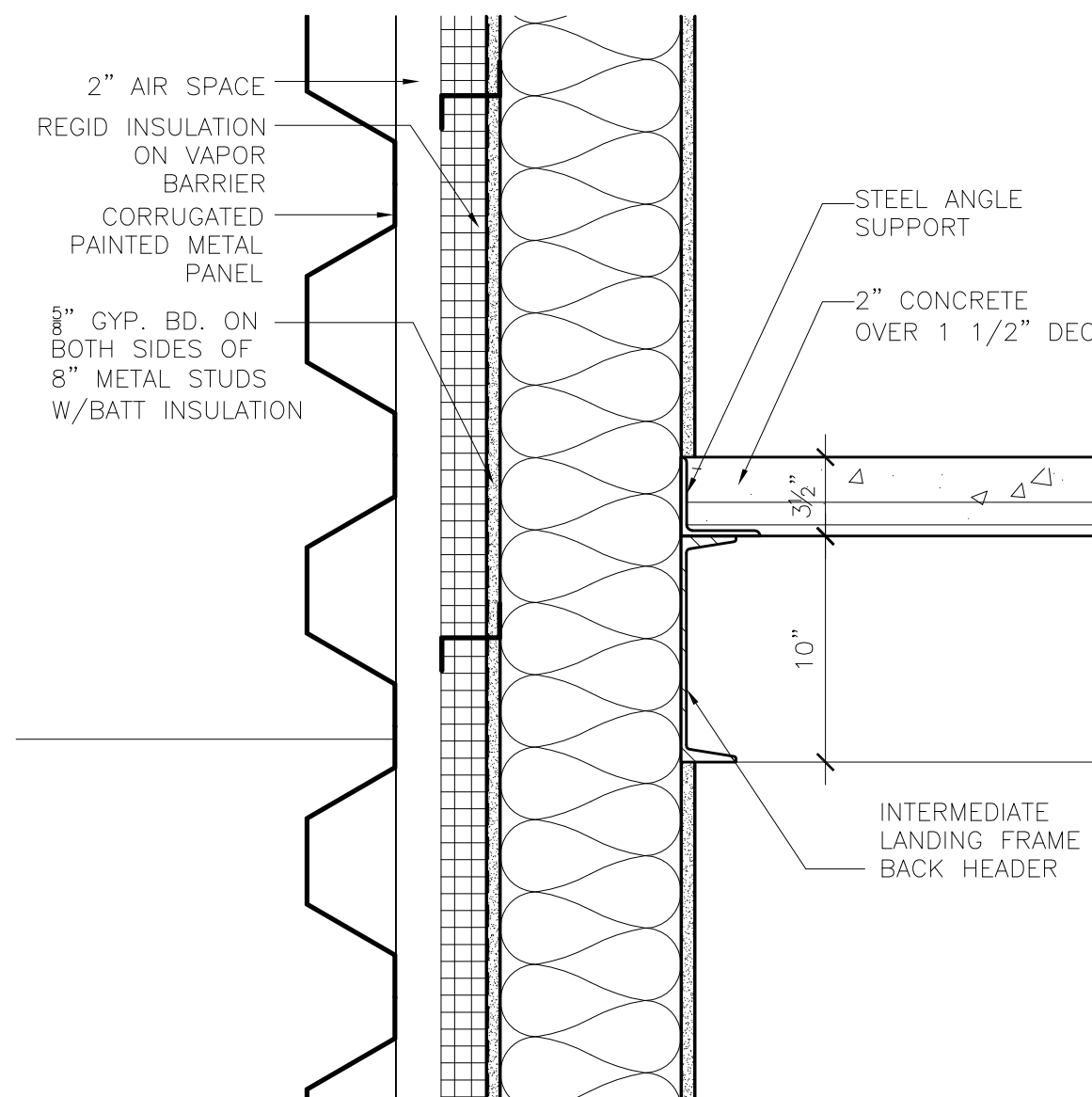
2 STAIR STRINGER TO INTERMETIATE LANDING
1 1/2" = 1'-0"



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



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



3 LANDING TO WALL DEATAIL
1 1/2" = 1'-0"

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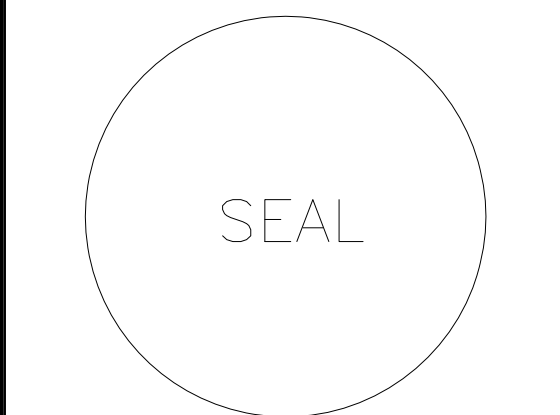
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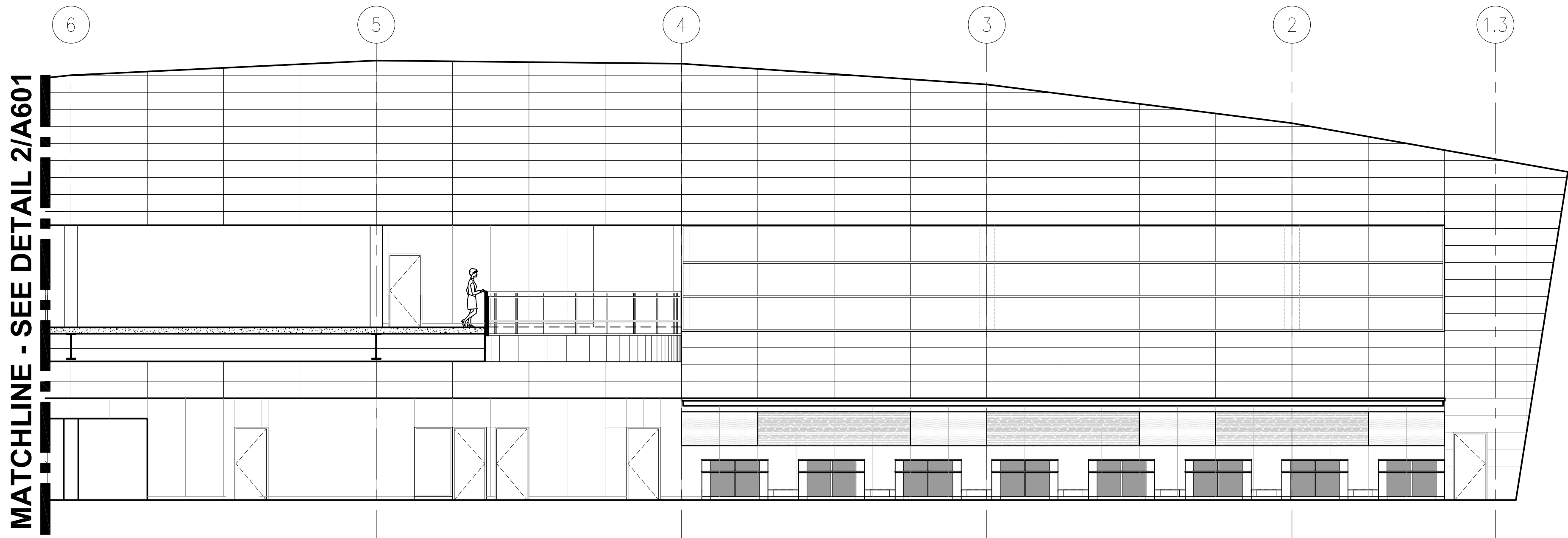
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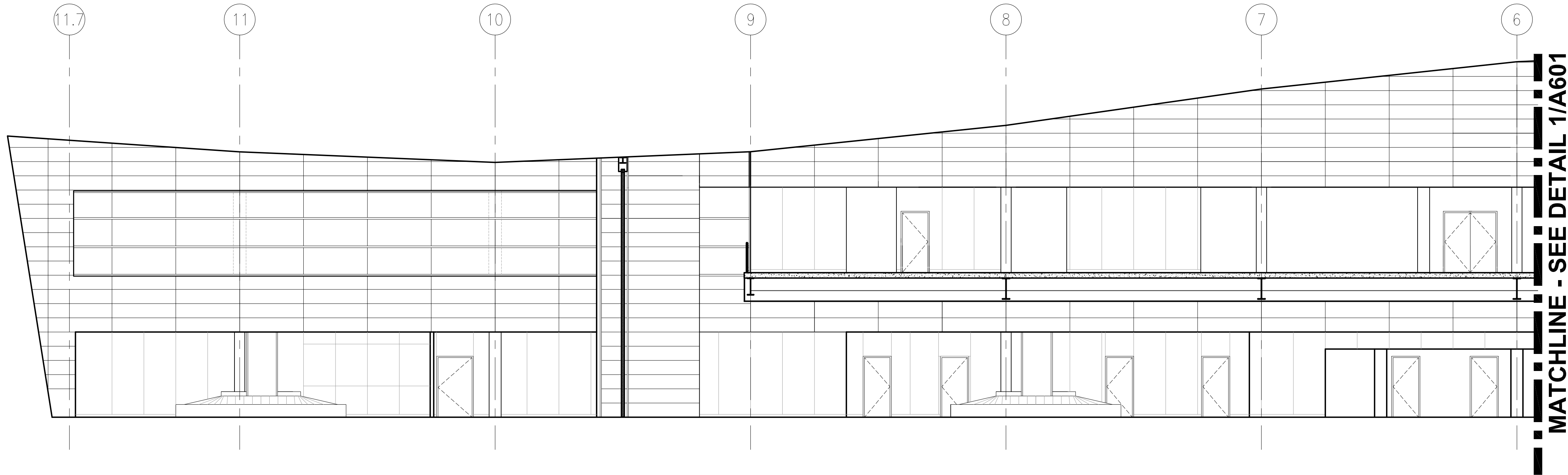
SHEET TITLE
**VERTICAL
CIRCULATION
DETAILS**

SHEET NUMBER
A540

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



2 INTERIOR ELEVATION - LOBBY - NORTH
1/8" = 1'-0"

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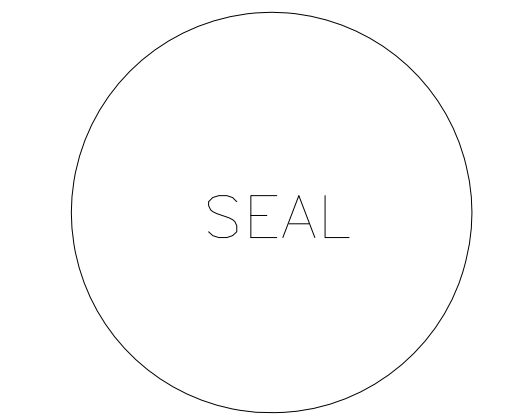
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NO.	DESCRIPTION	DATE

DATE ISSUED: 02-15-10
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DRAWN BY: MKG/MI
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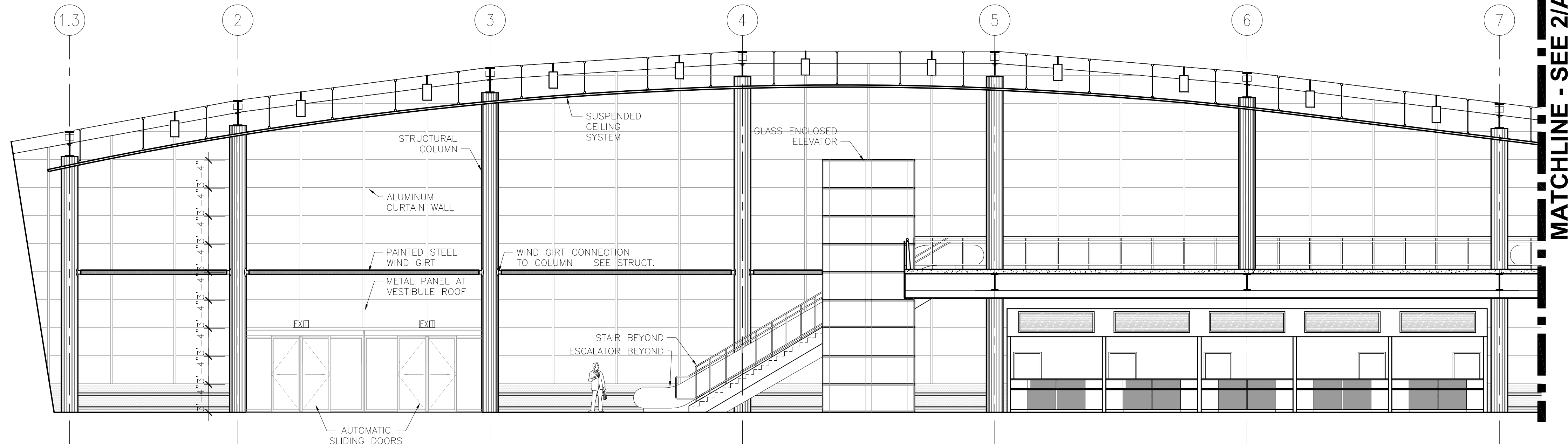
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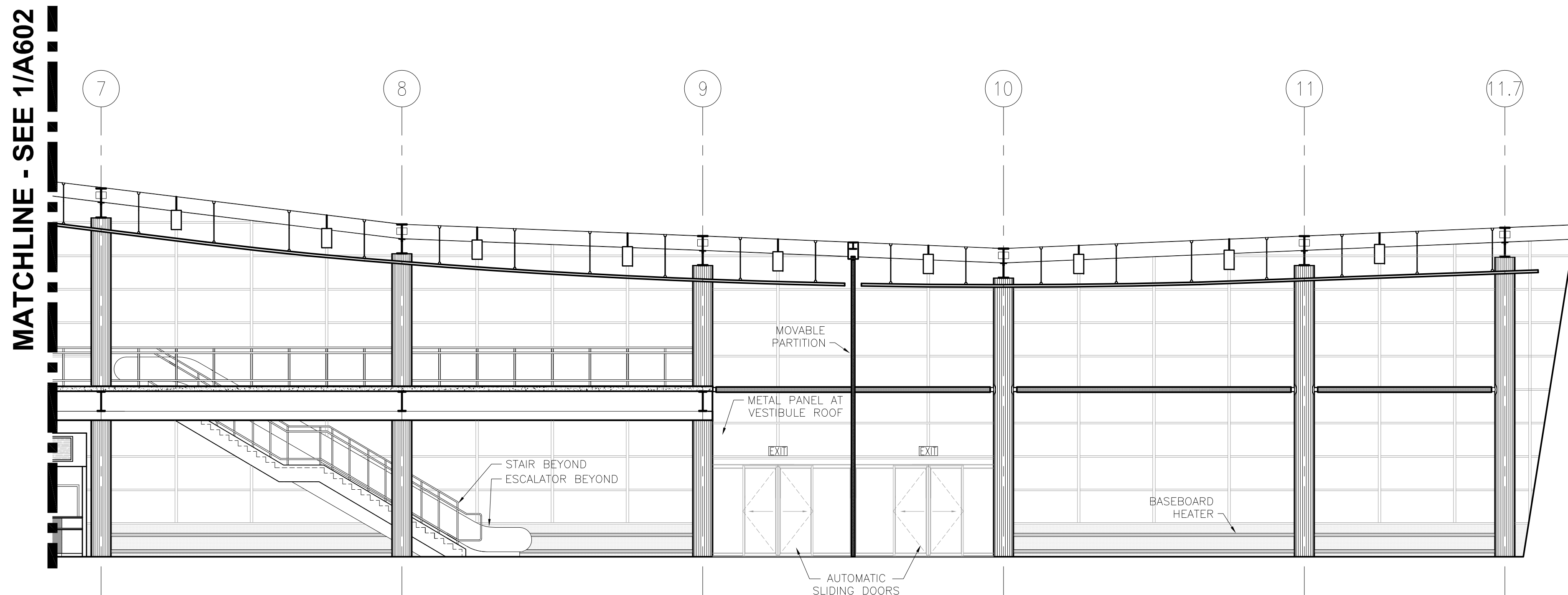
SHEET TITLE
**INTERIOR
ELEVATIONS**

SHEET NUMBER
A601

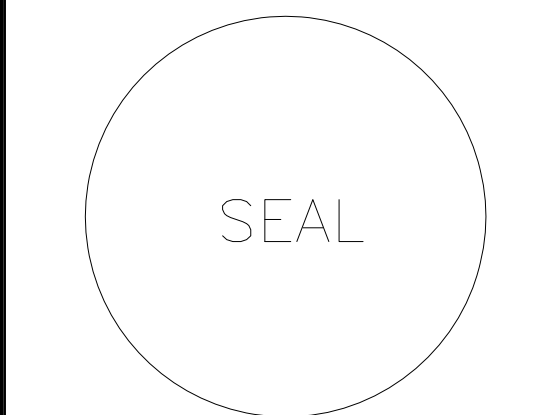
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CONSTRUCTION**



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



2 INTERIOR ELEVATION - LOBBY NORTH
1/8" = 1'-0"



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02-15-10
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DRAWN BY: MKG/MI
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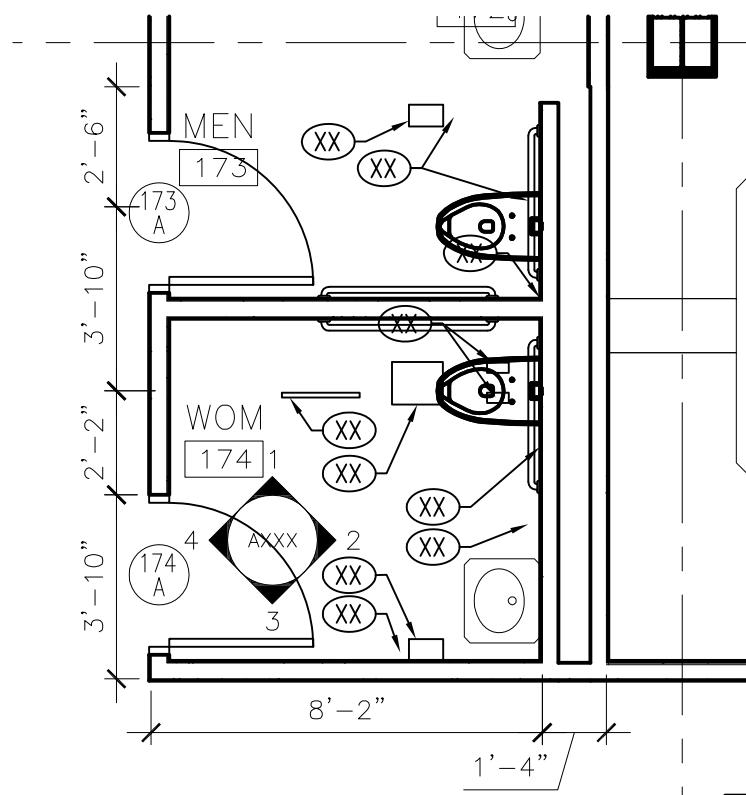
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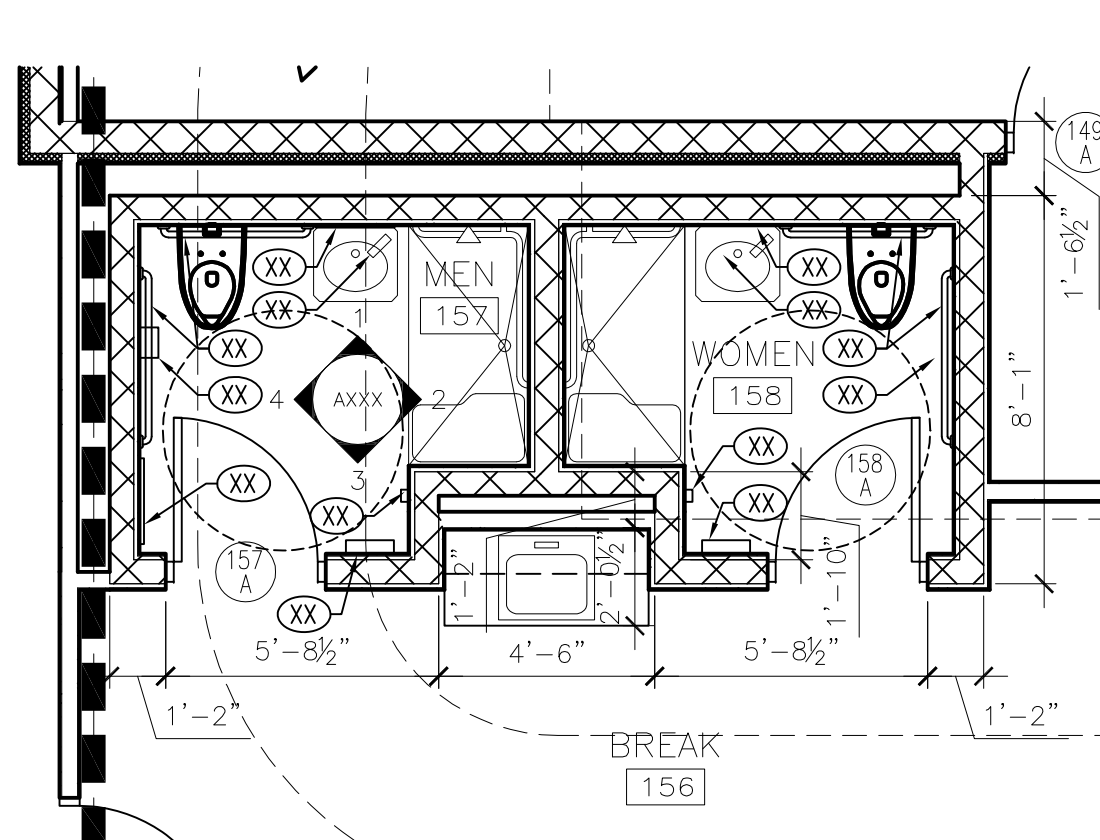
SHEET TITLE
**INTERIOR
ELEVATIONS**

SHEET NUMBER
A602

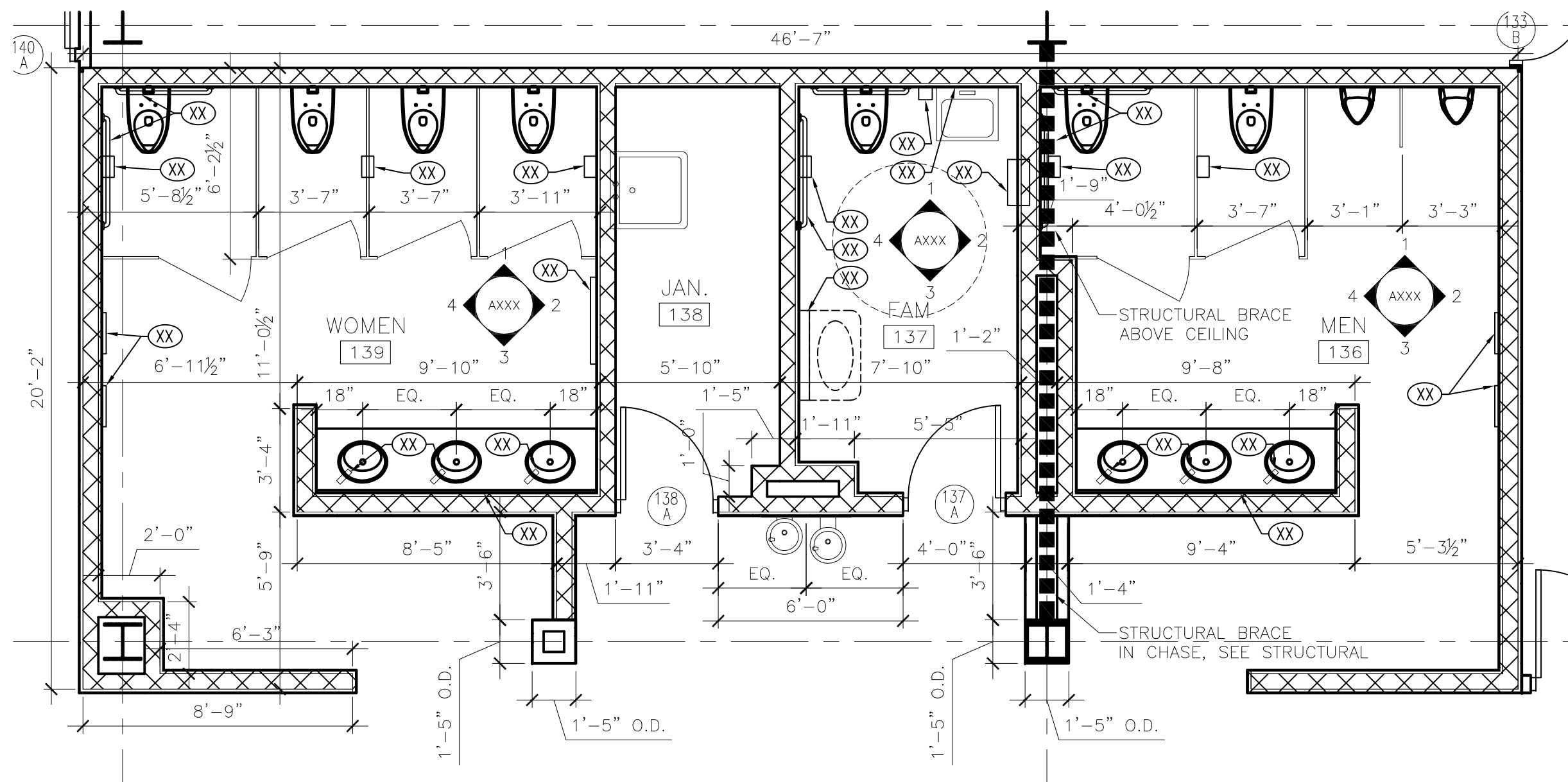
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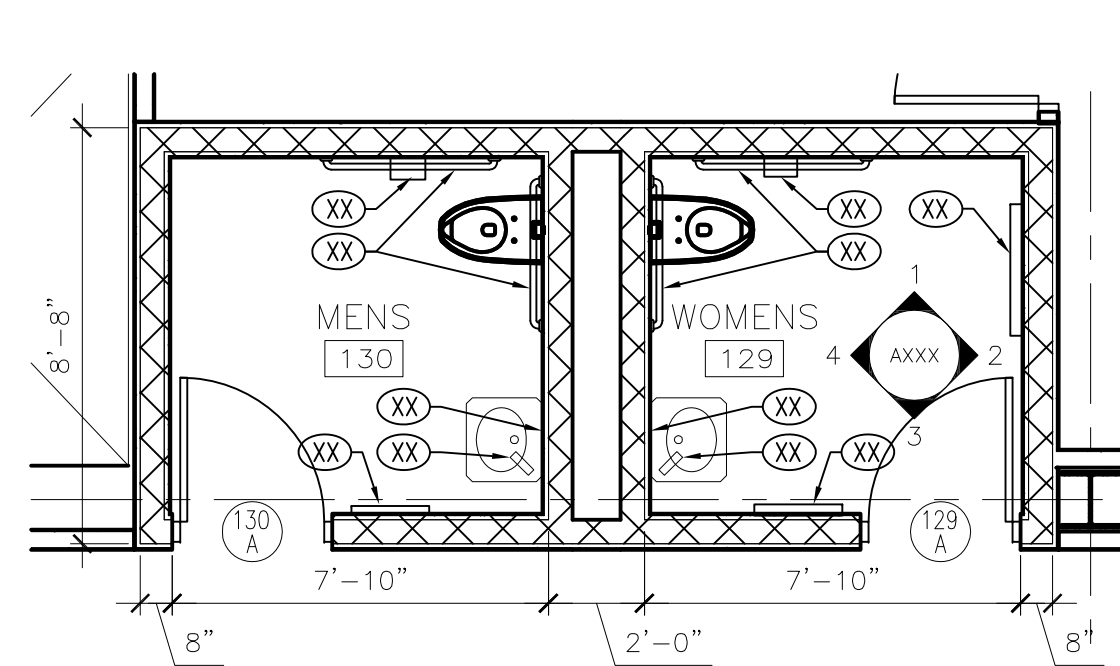
1 ENLARGED PLAN
1/4" = 1'-0"



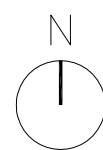
1 ENLARGED PLAN
1/4" = 1'-0"



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



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



1 SITE PLAN
1" = 80'-0"

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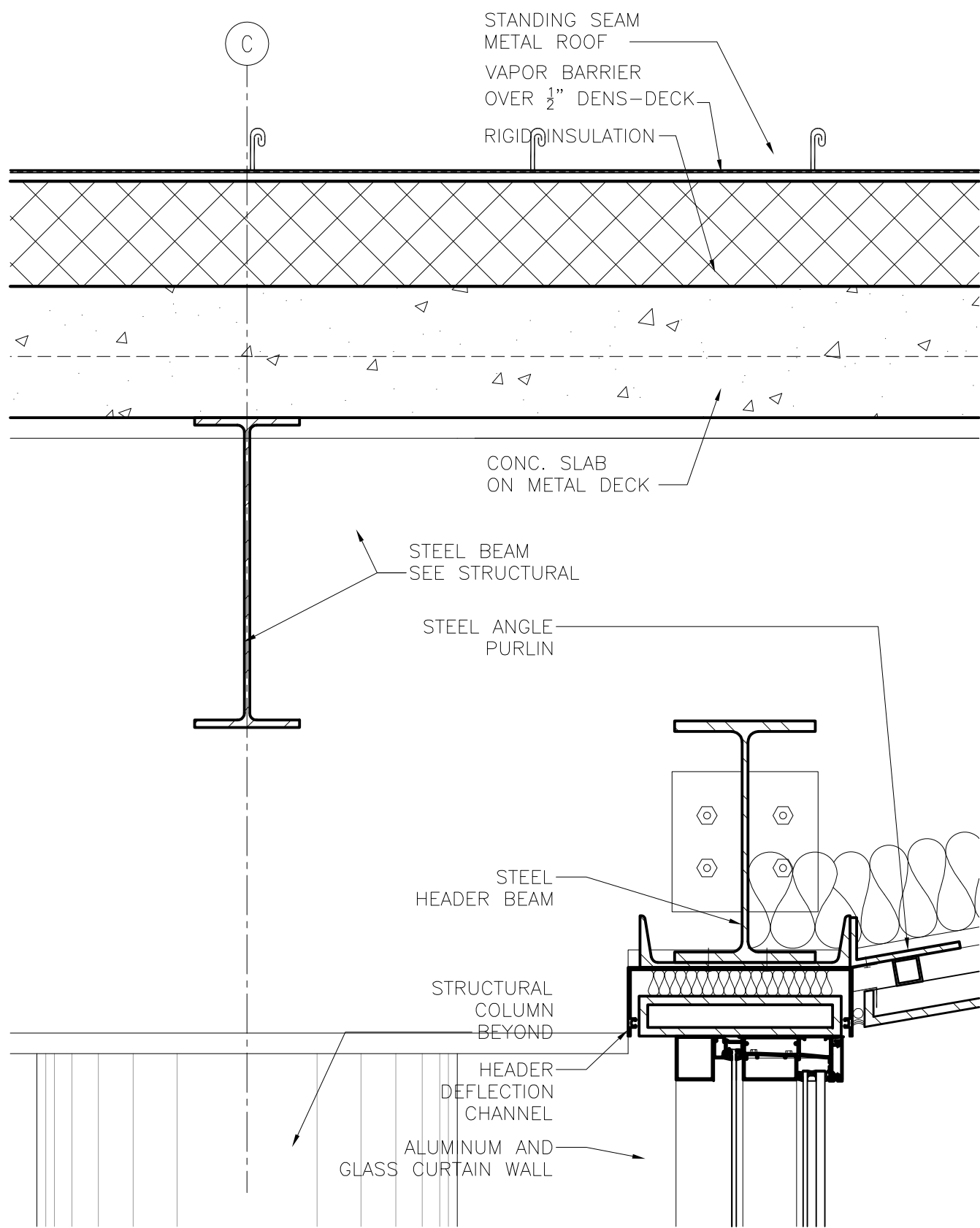
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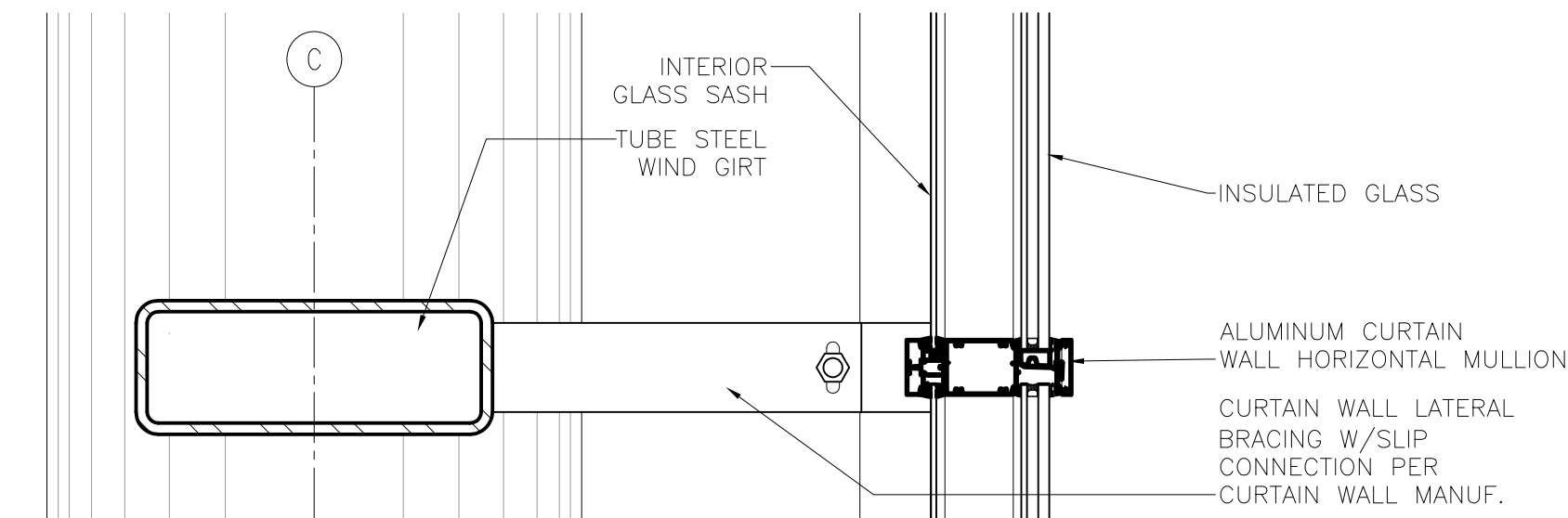
SHEET TITLE
**INTERIOR SYSTEMS
RESTROOMS**

SHEET NUMBER
A610

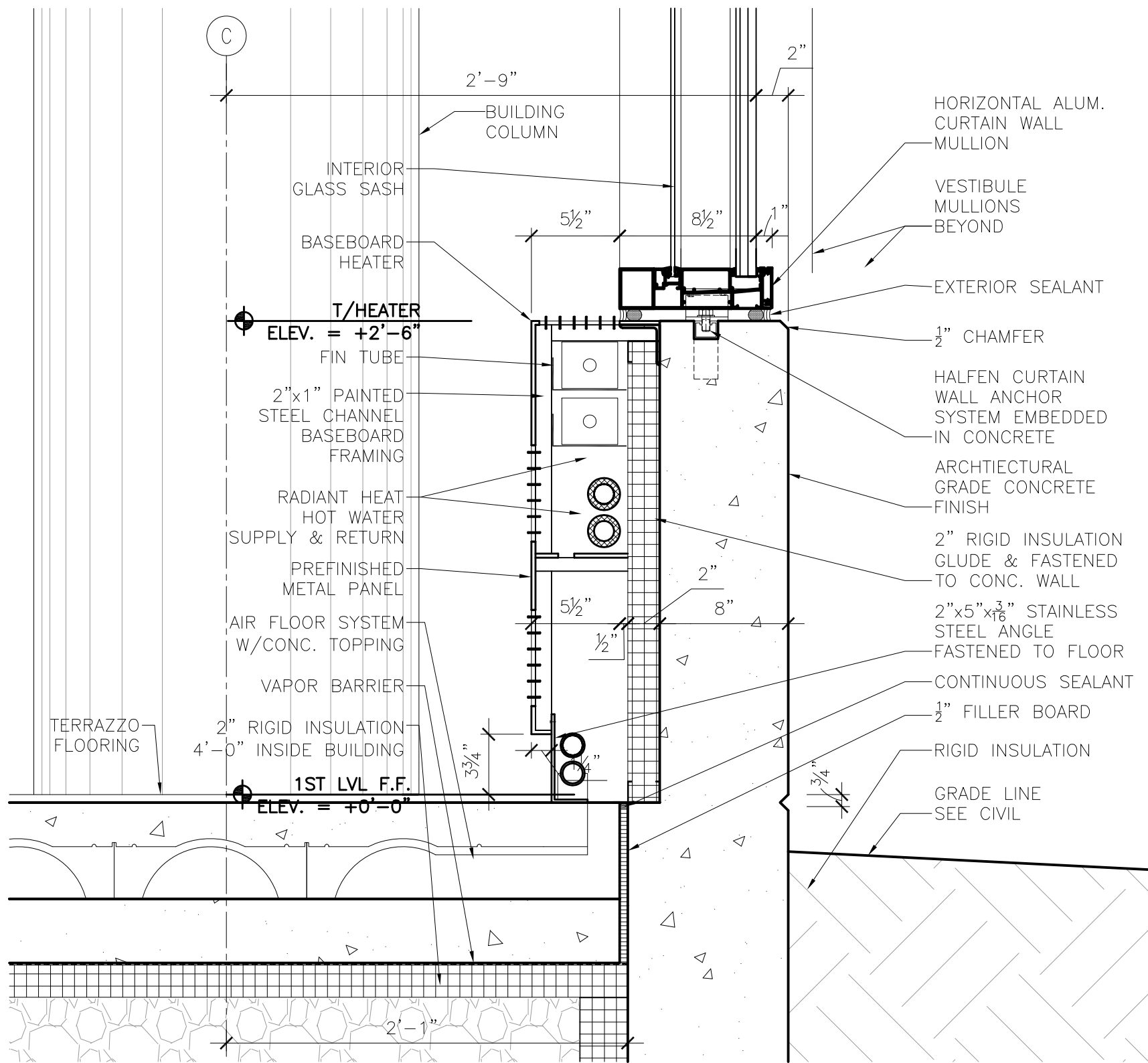
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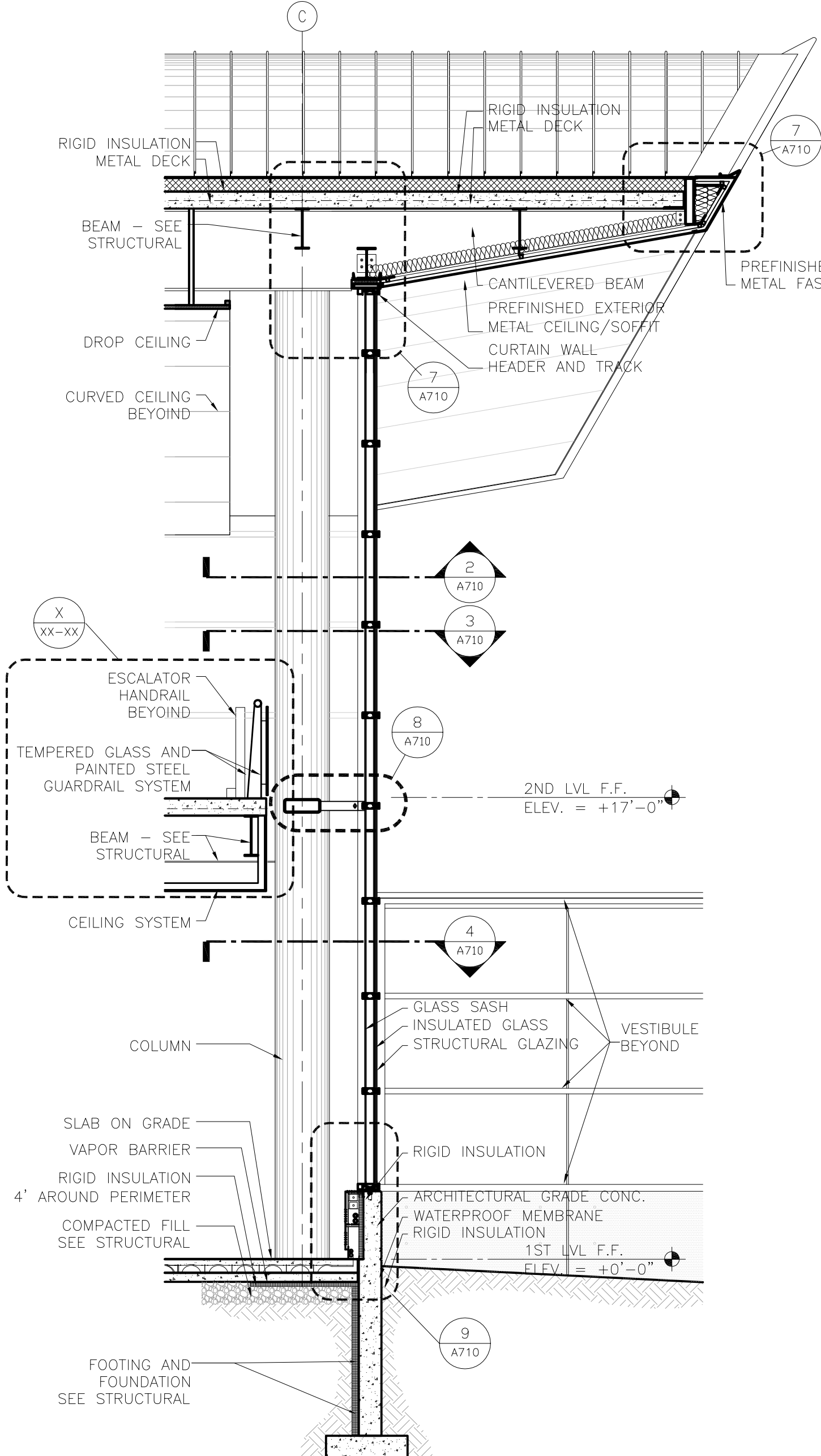
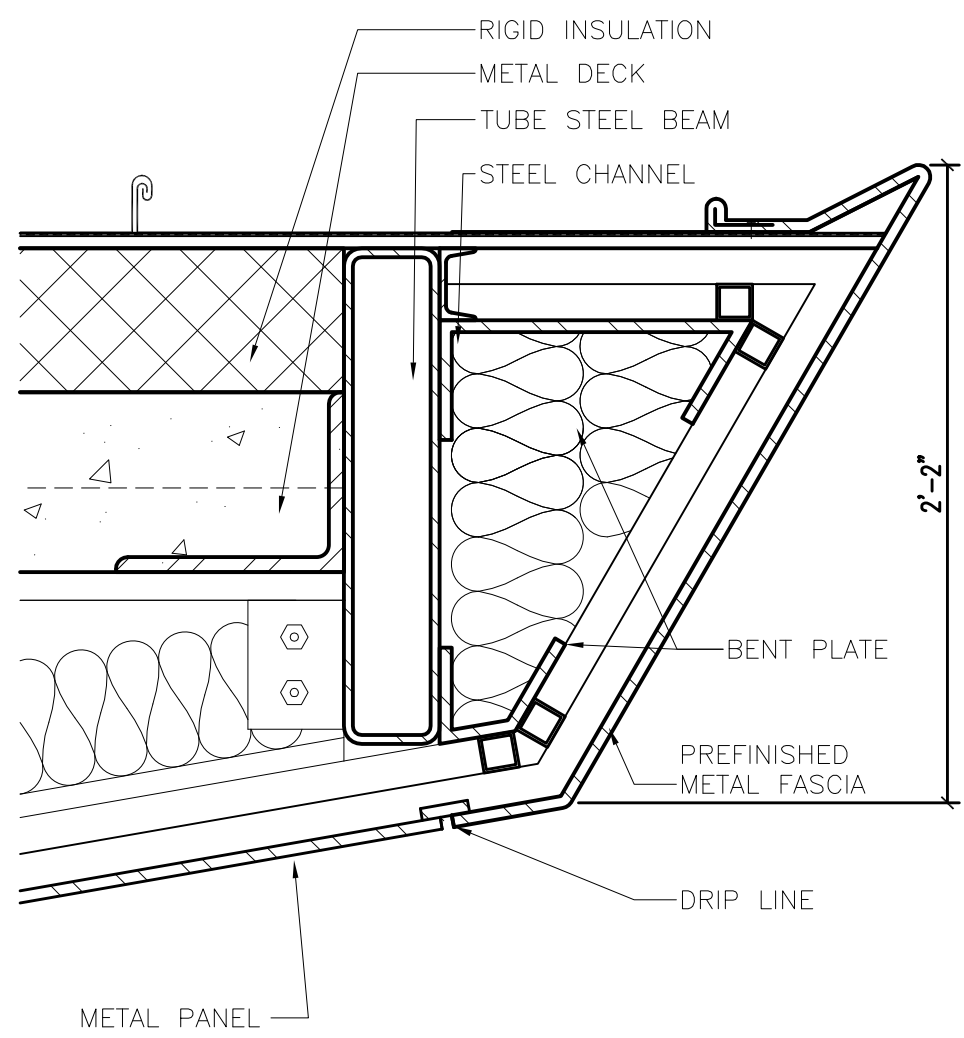
7 CURTAIN WALL HEAD DETAIL
1-1/2" = 1'-0"



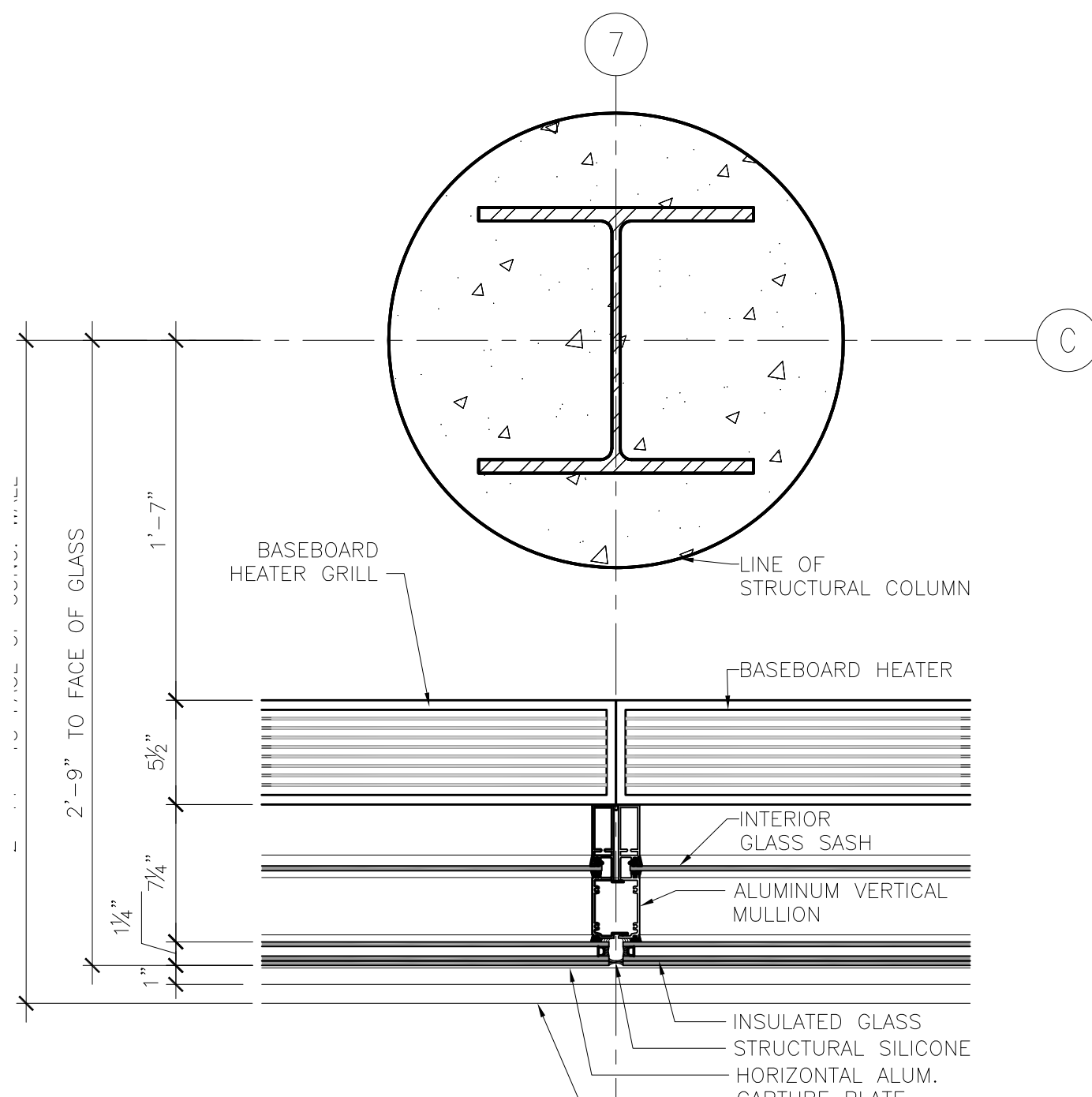
8 CURTAIN WALL HORIZONTAL DETAIL
1-1/2" = 1'-0"



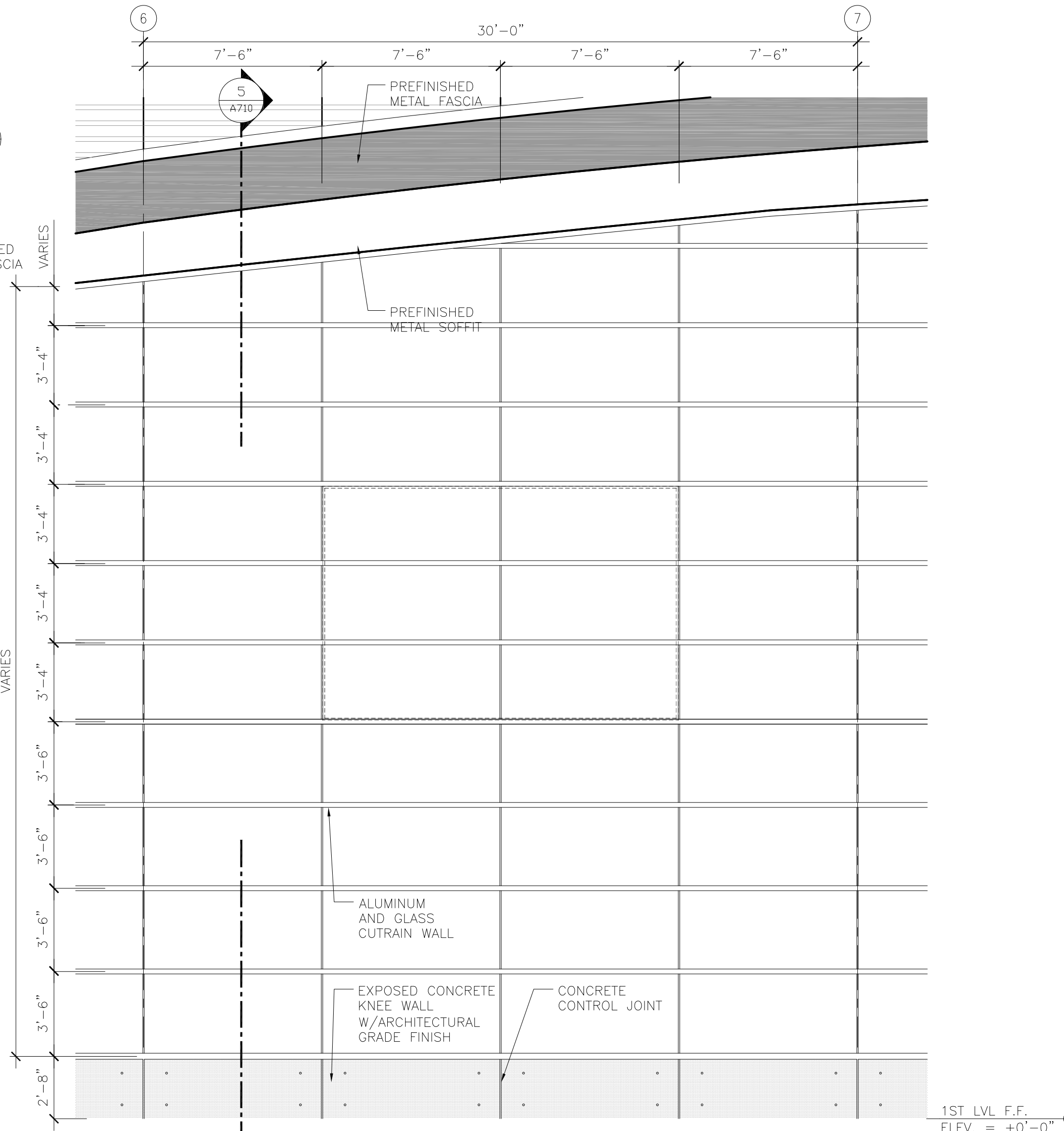
9 CURTAIN WALL SILL DETAIL
1-1/2" = 1'-0"



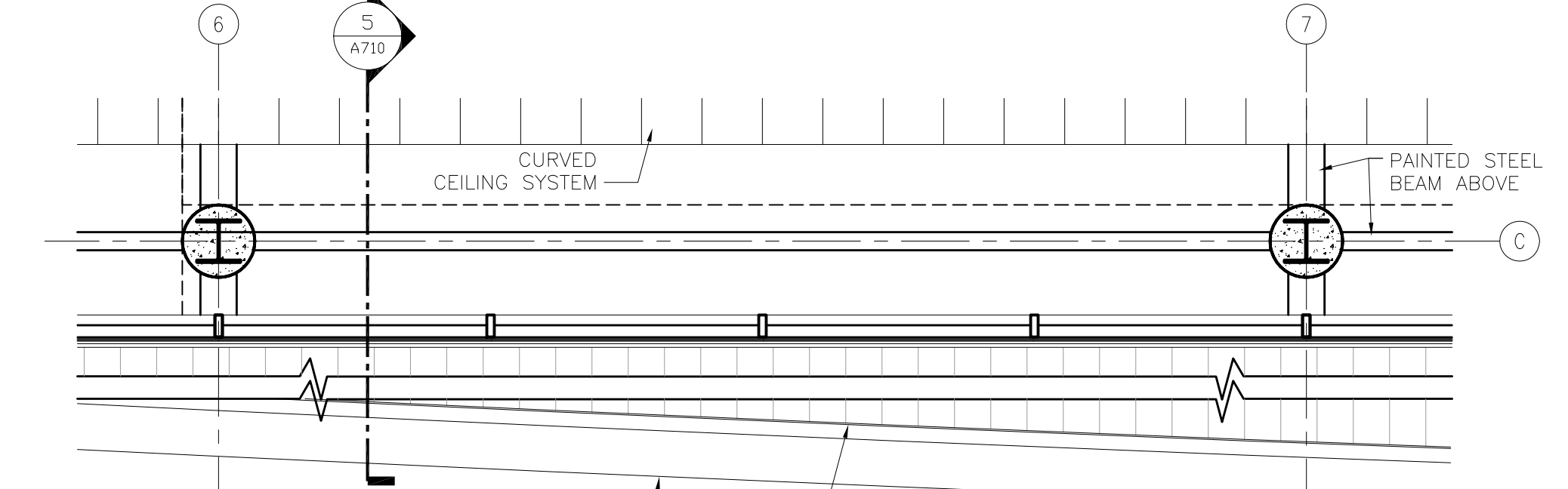
5 WALL SECTION
1/4" = 1'-0"



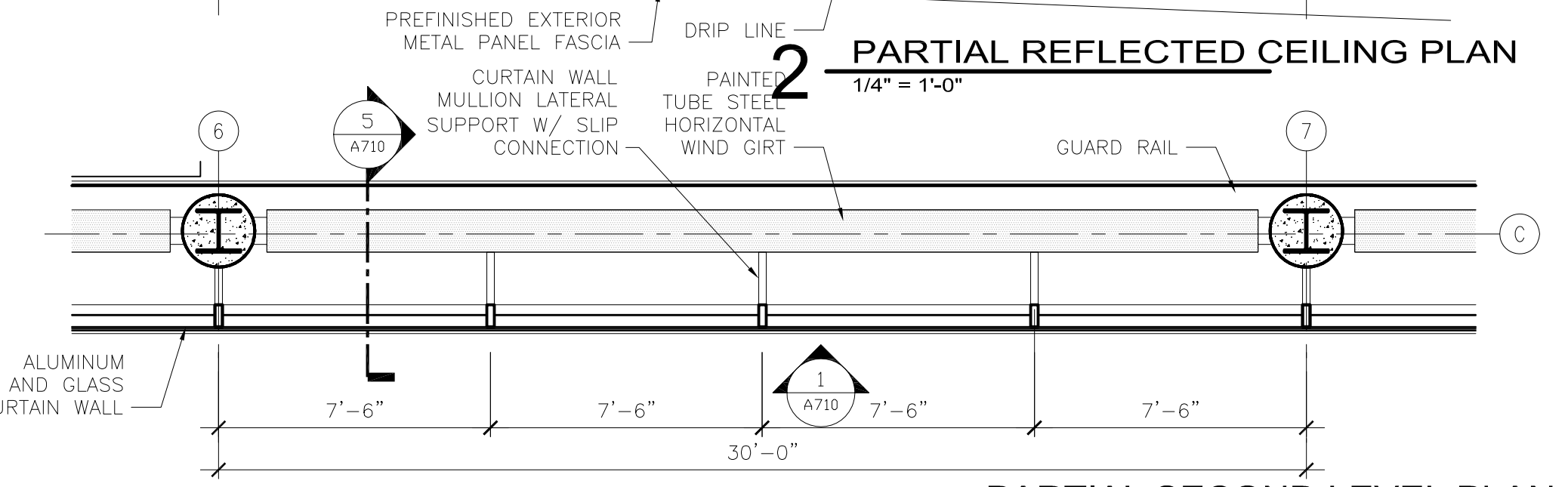
6 CURTAIN WALL PLAN DETAIL
1 1/2" = 1'-0"



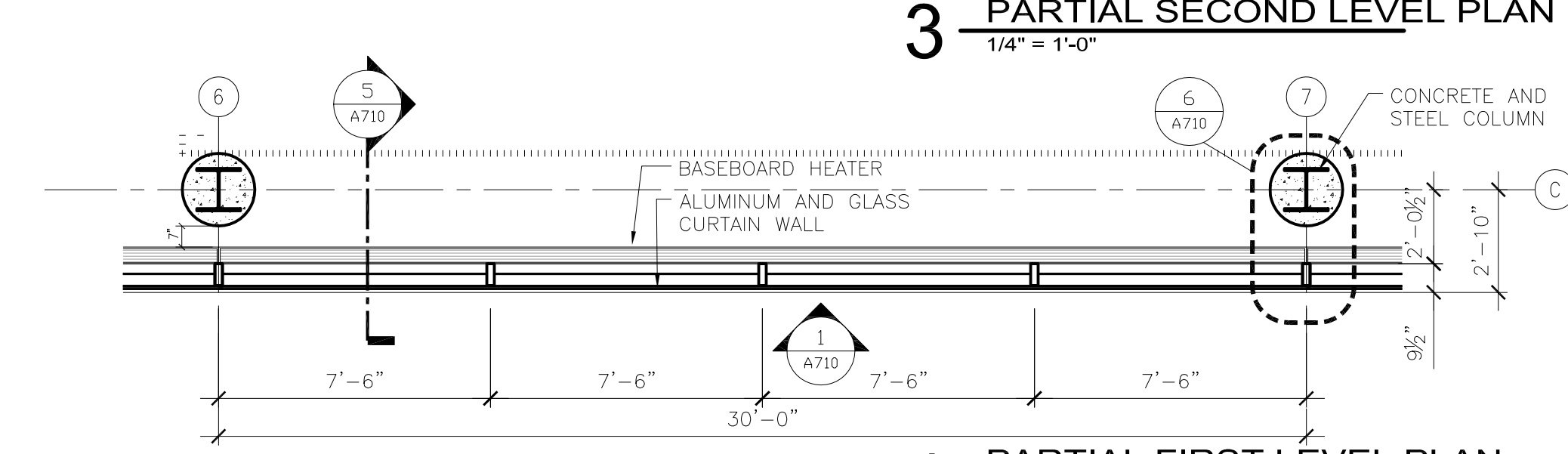
1 PARTIAL ELEVATION
1/4" = 1'-0"



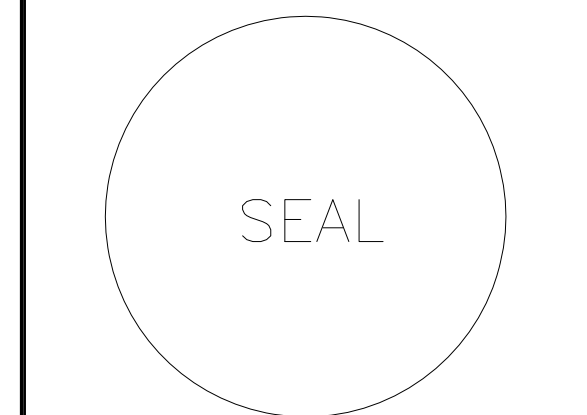
2 PARTIAL REFLECTED CEILING PLAN
1/4" = 1'-0"



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



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



REVISIONS

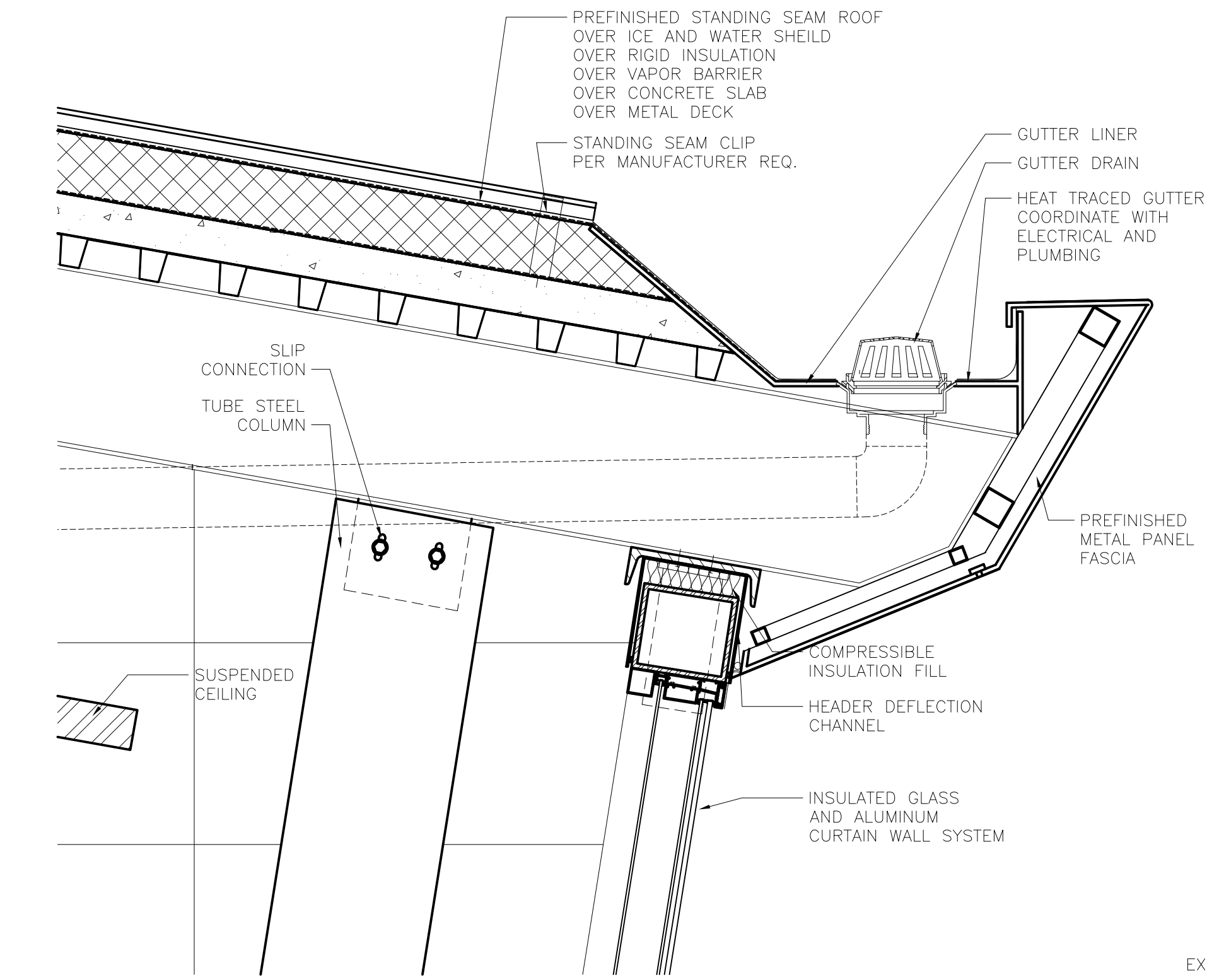
NO.	DESCRIPTION	DATE

DATE ISSUED: 02-15-10
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DRAWN BY: MKG/MI
DESIGNED BY: SBS/TC
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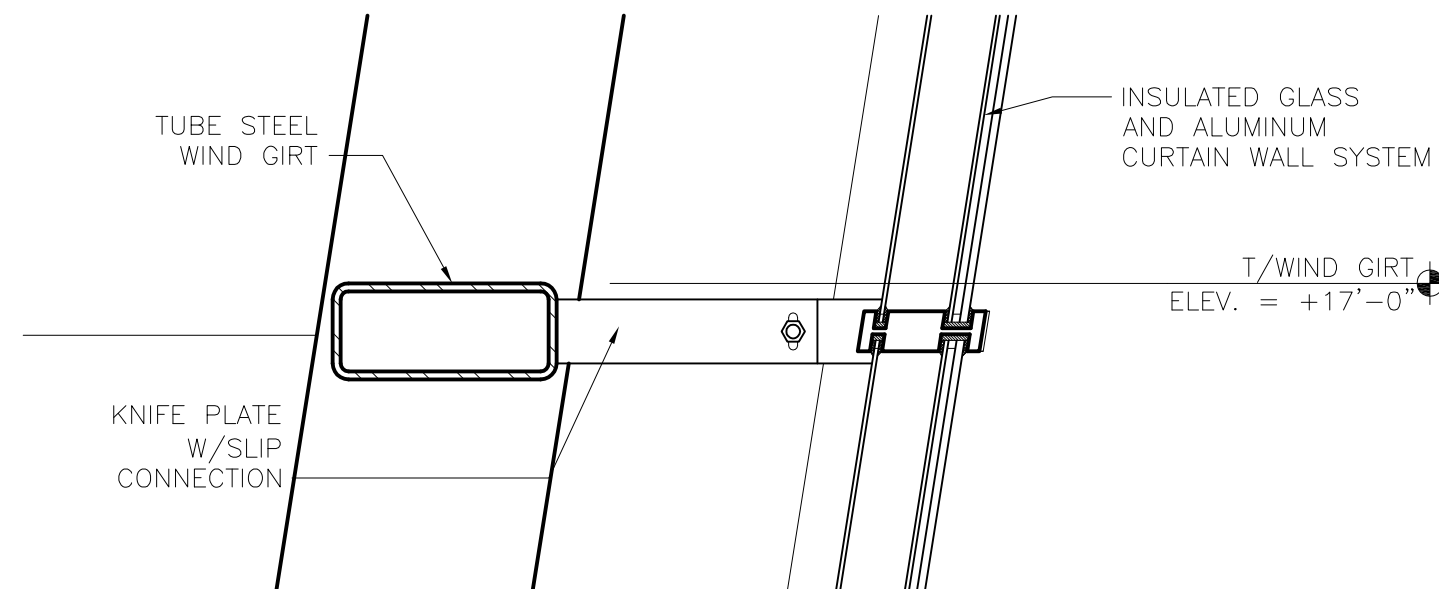
**EXTERIOR SYSTEMS
LANDSIDE
CURTAIN WALL**

SHEET NUMBER
A710

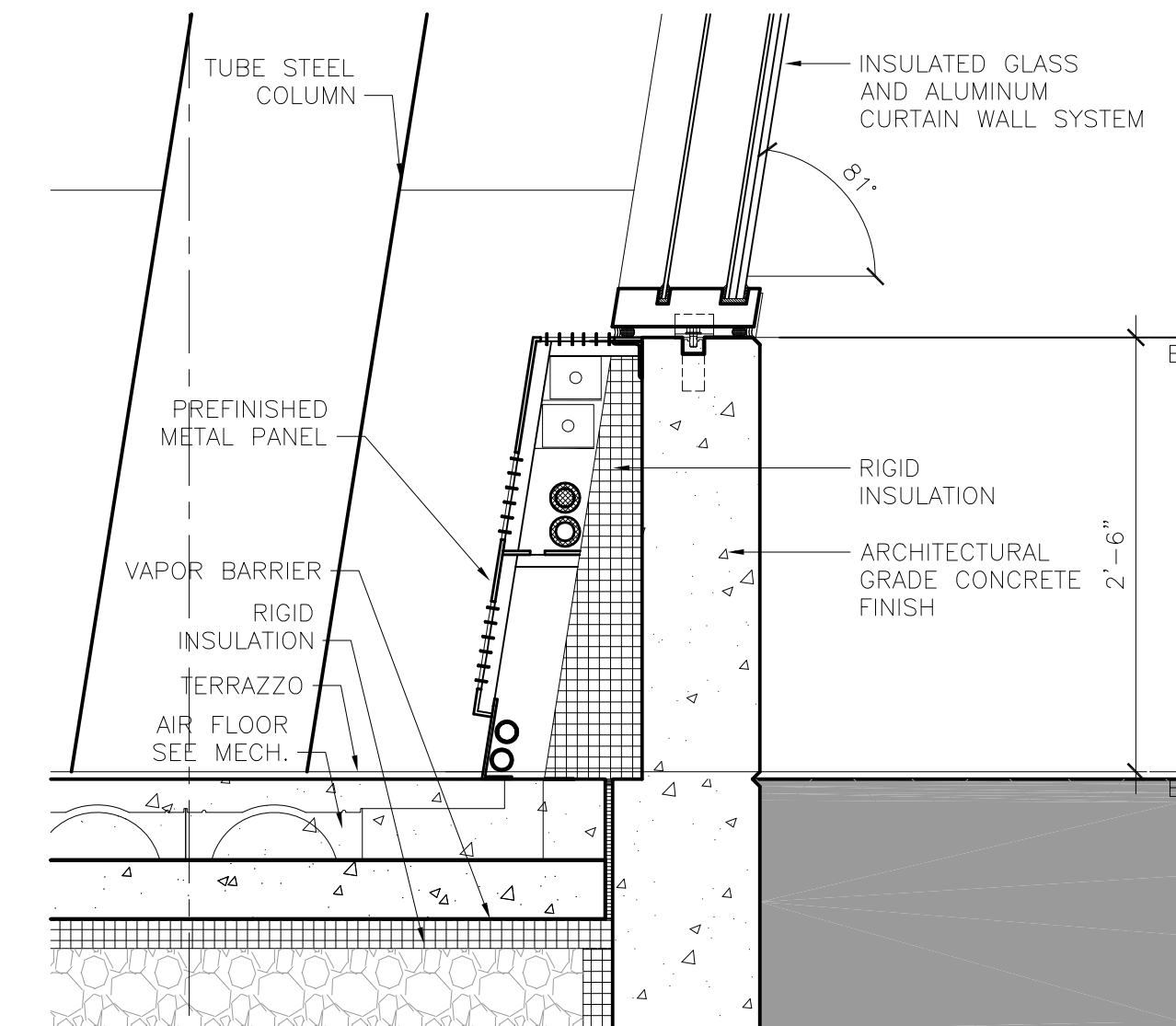
**60% NOT FOR
CONSTRUCTION**



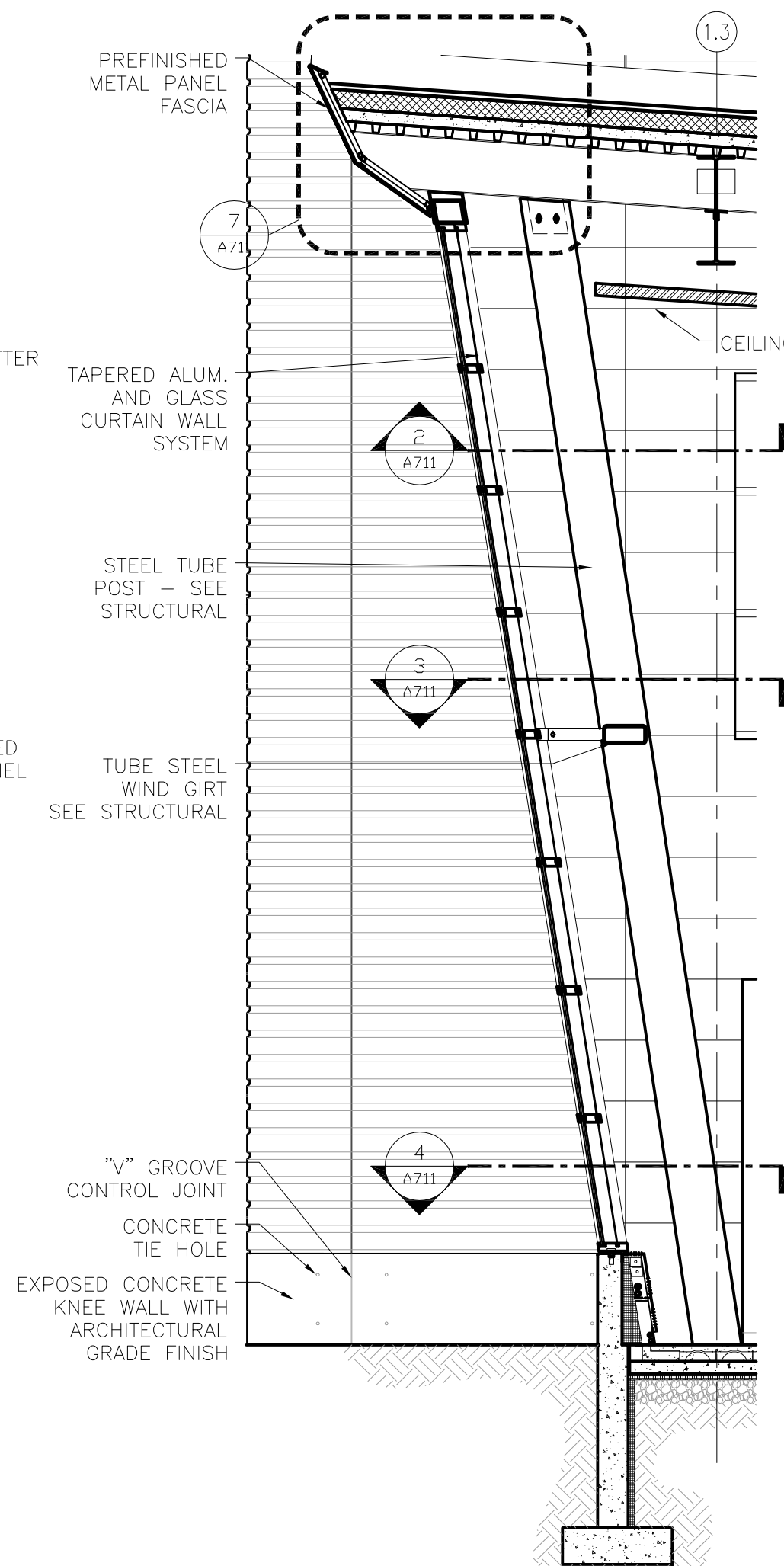
8 CURTAIN WALL HEAD DETAIL @ EAST END OF CONCOURSE
1" = 1'-0"



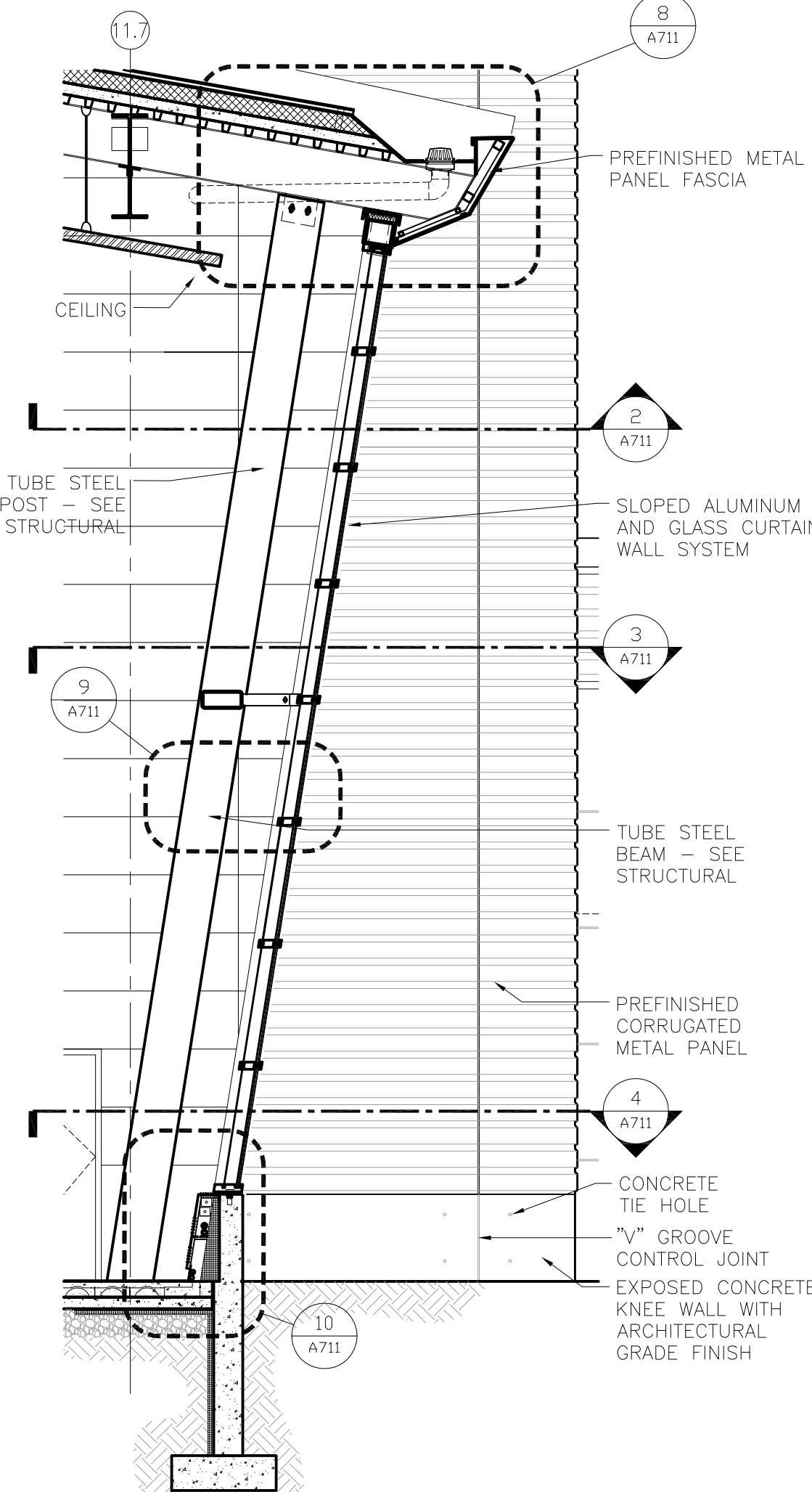
9 CURTAIN WALL HORIZONTAL DETAIL WEST SIDE SIMILAR
1" = 1'-0"



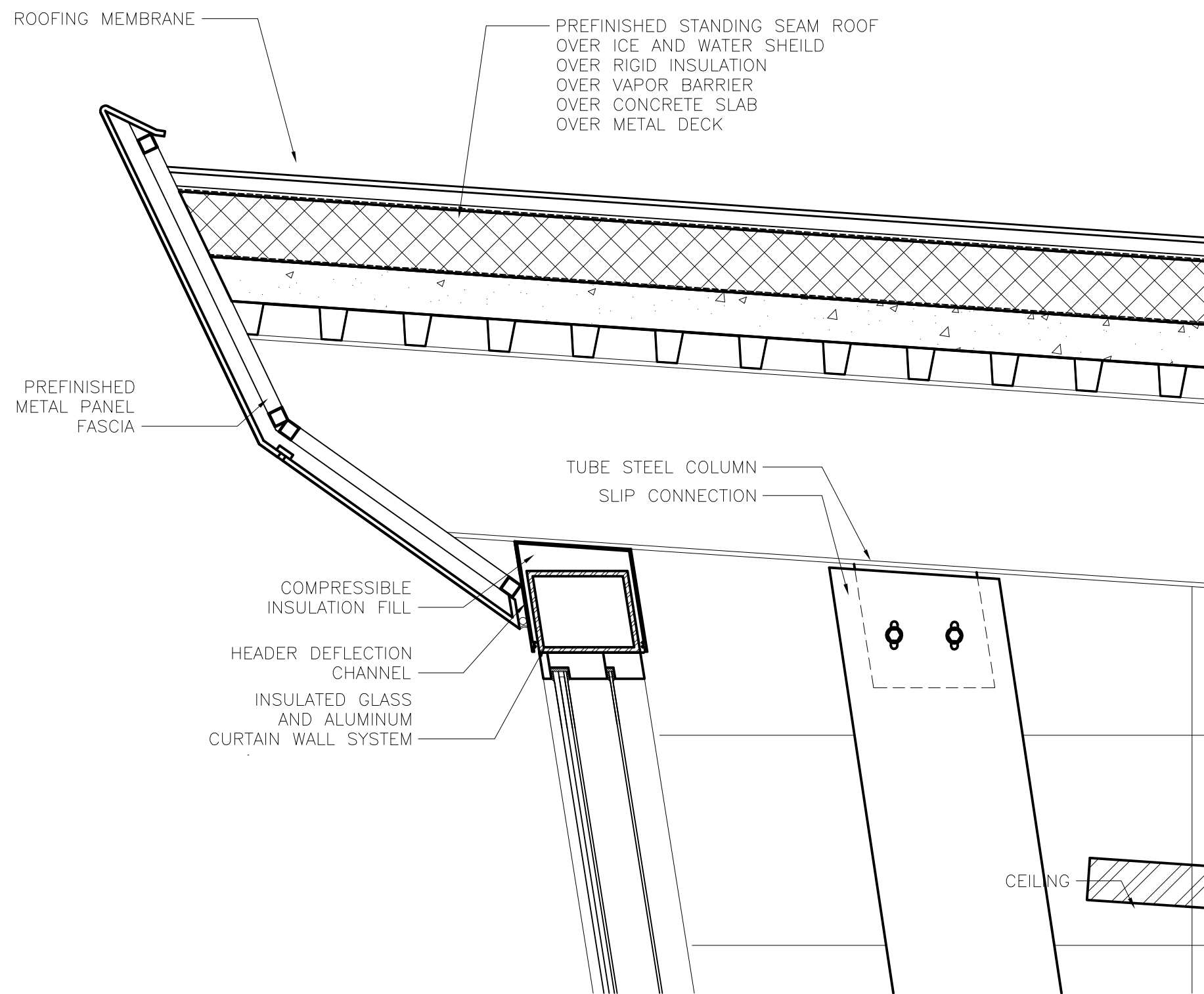
10 CURTAIN WALL SILL DETAIL WEST SIDE SIMILAR
1" = 1'-0"



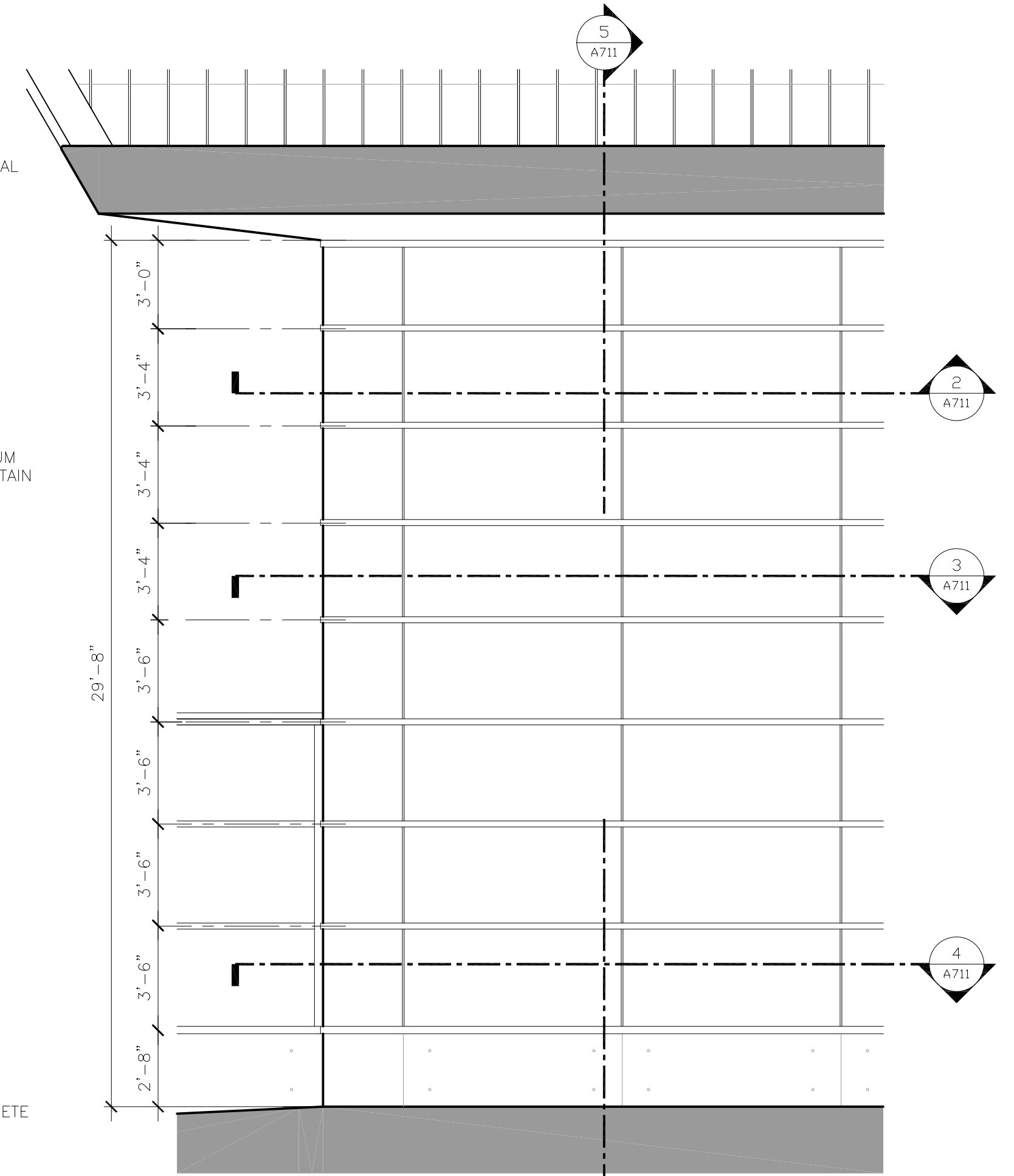
6 WEST CURTAIN WALL SECTION
1/4" = 1'-0"



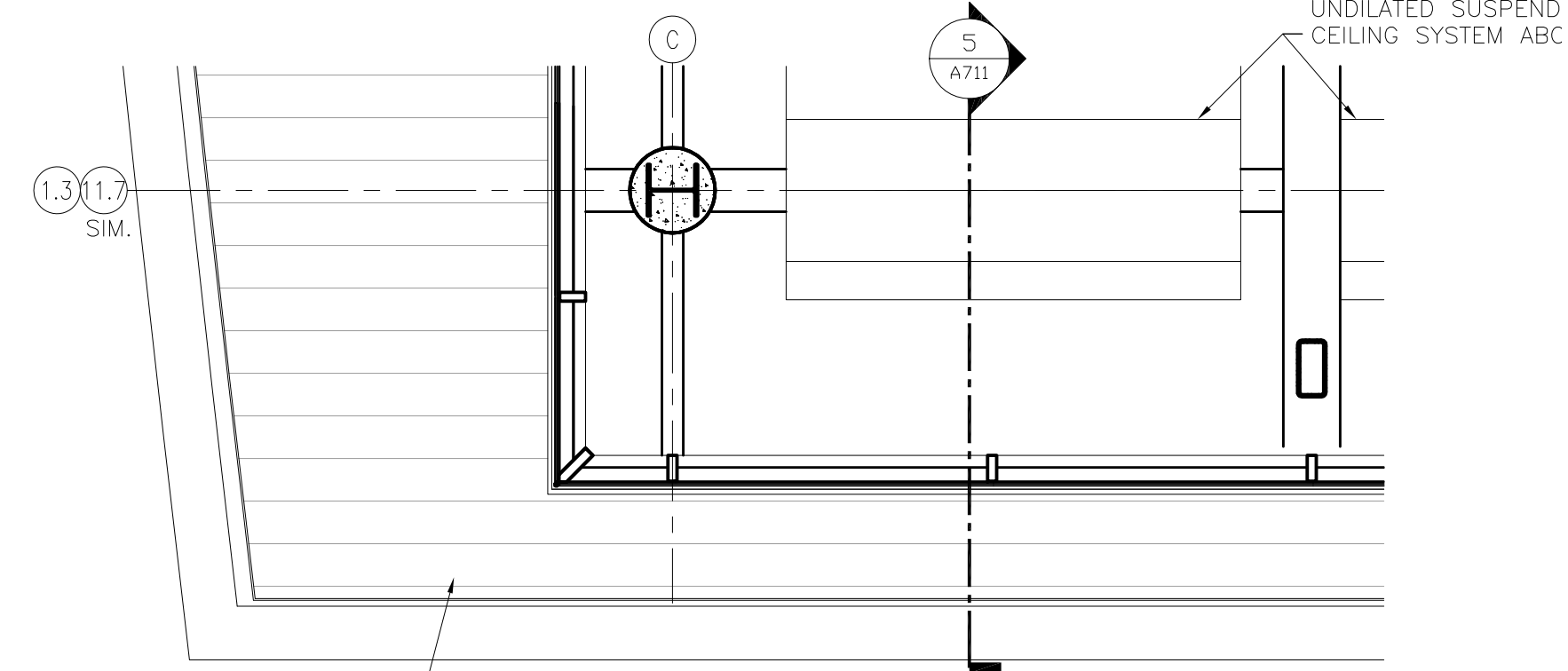
5 EAST CURTAIN WALL SECTION
1/4" = 1'-0"



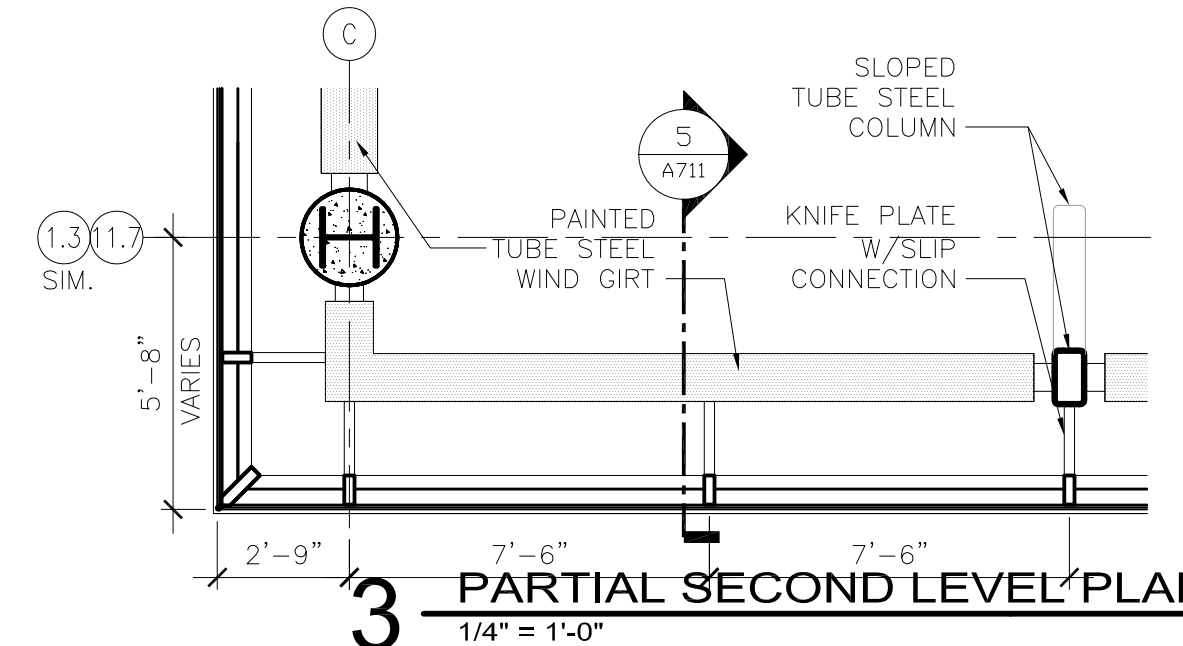
7 CURTAIN WALL HEAD DETAIL @ WEST END OF CONCOURSE
1" = 1'-0"



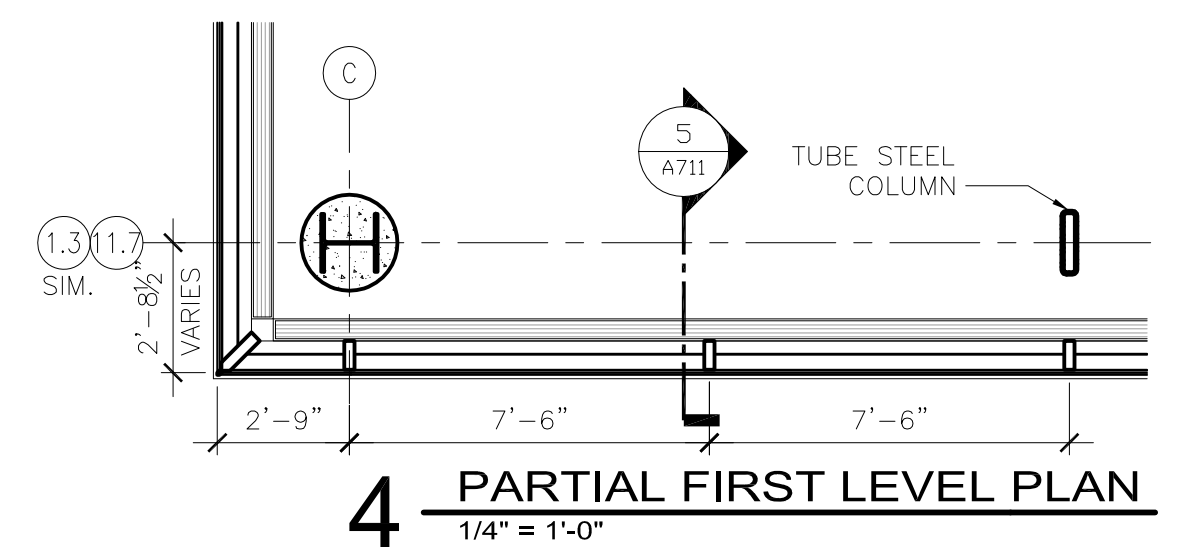
1 PARTIAL EAST ELEVATION
1/4" = 1'-0"



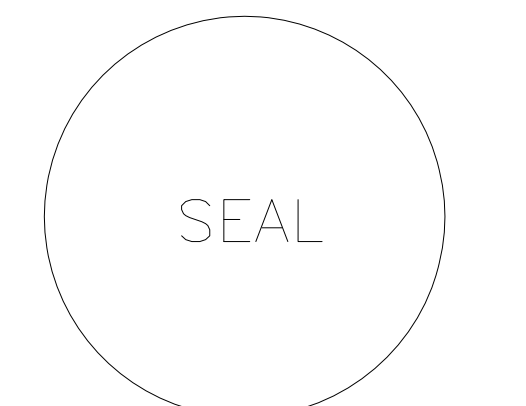
2 PARTIAL REFLECTED CEILING PLAN
1/4" = 1'-0"



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



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



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NO.	DESCRIPTION	DATE

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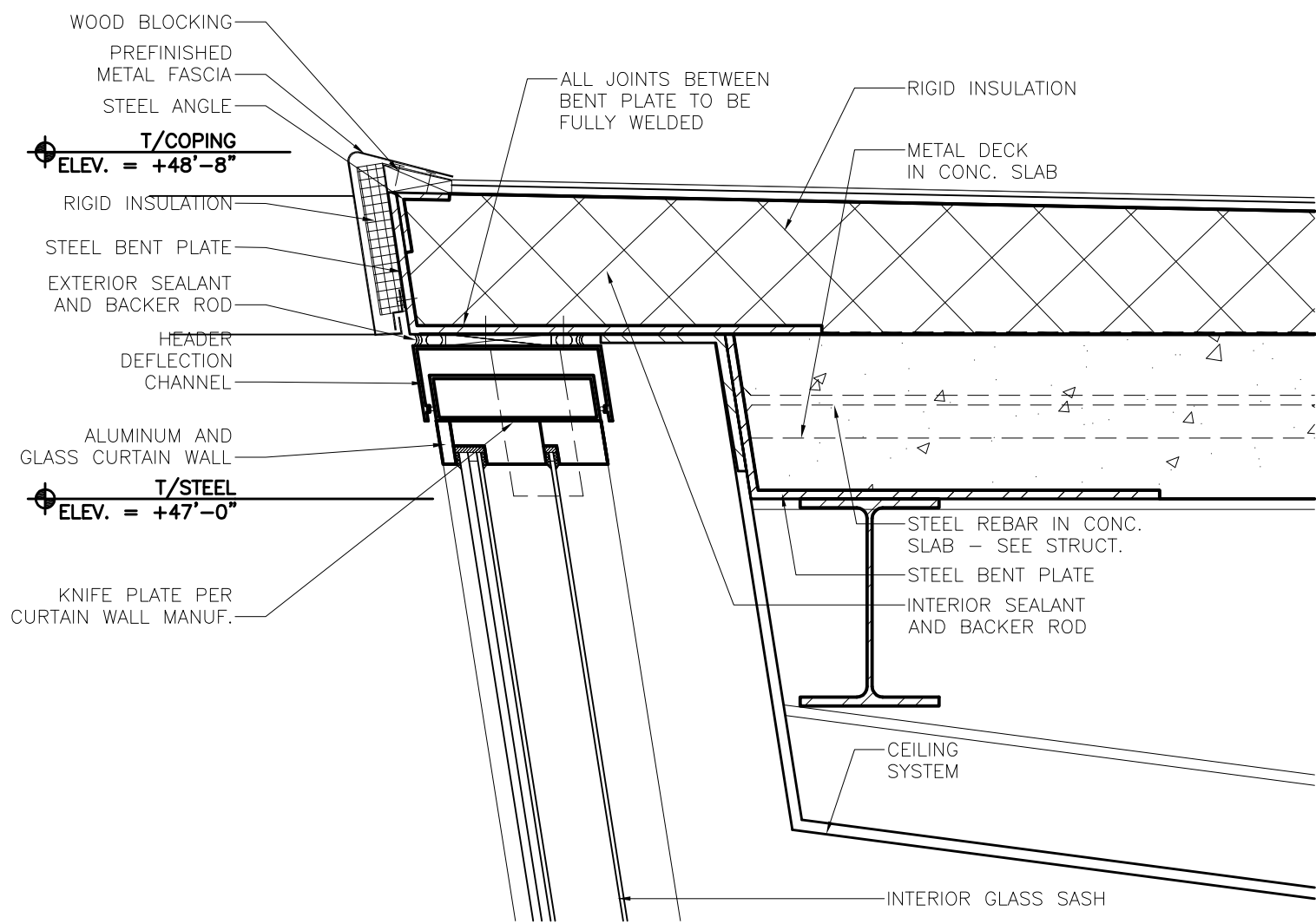
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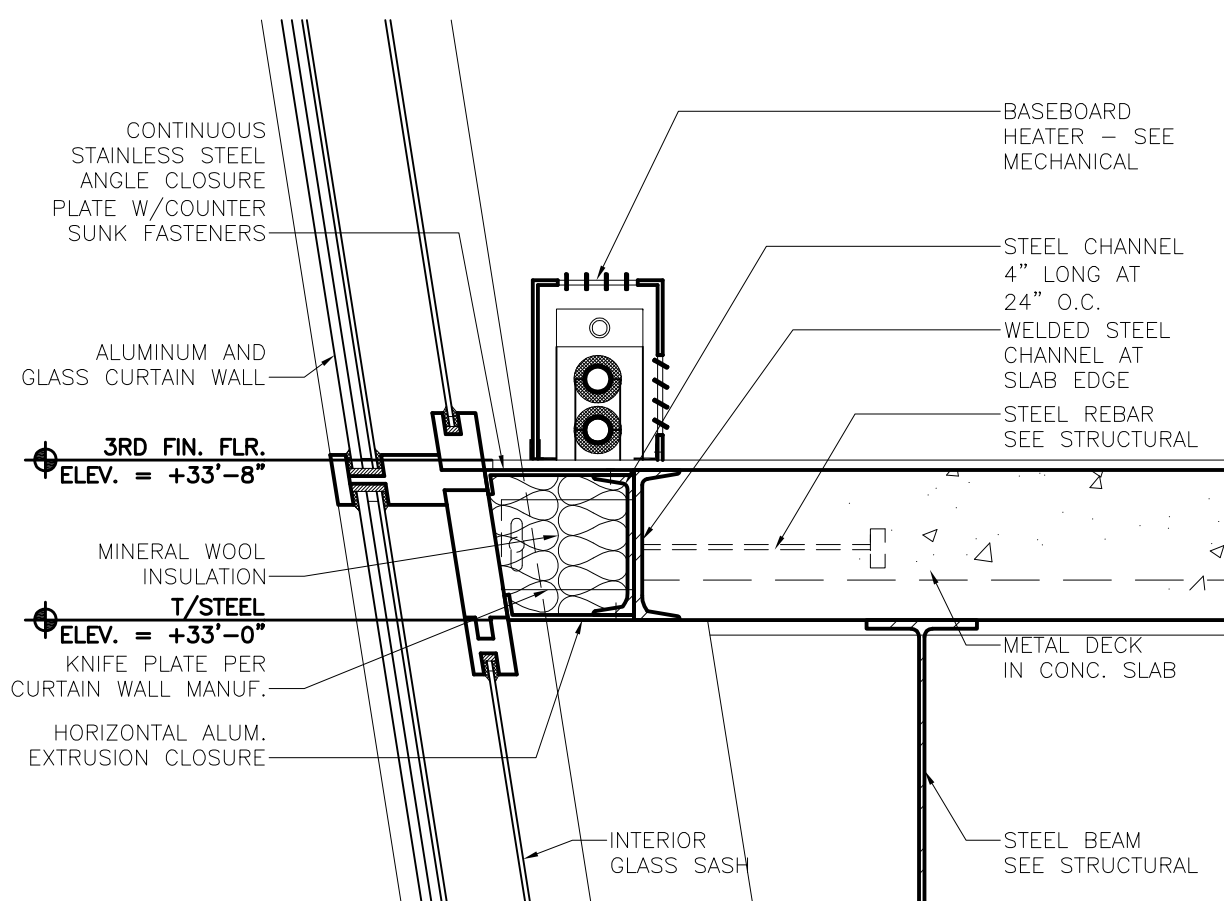
**EXTERIOR SYSTEMS
LANDSIDE
CURTAIN WALL**

SHEET NUMBER
A711

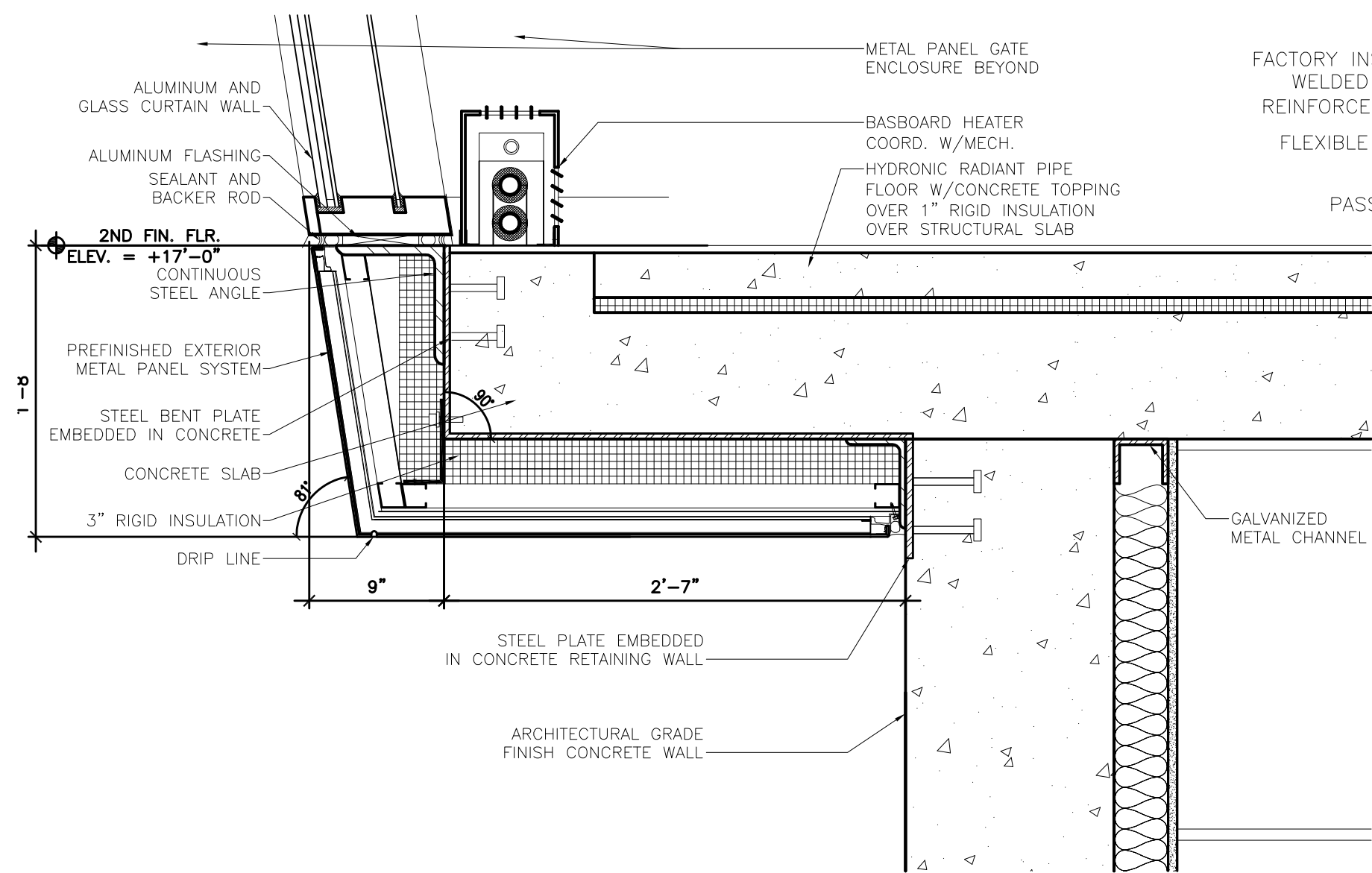
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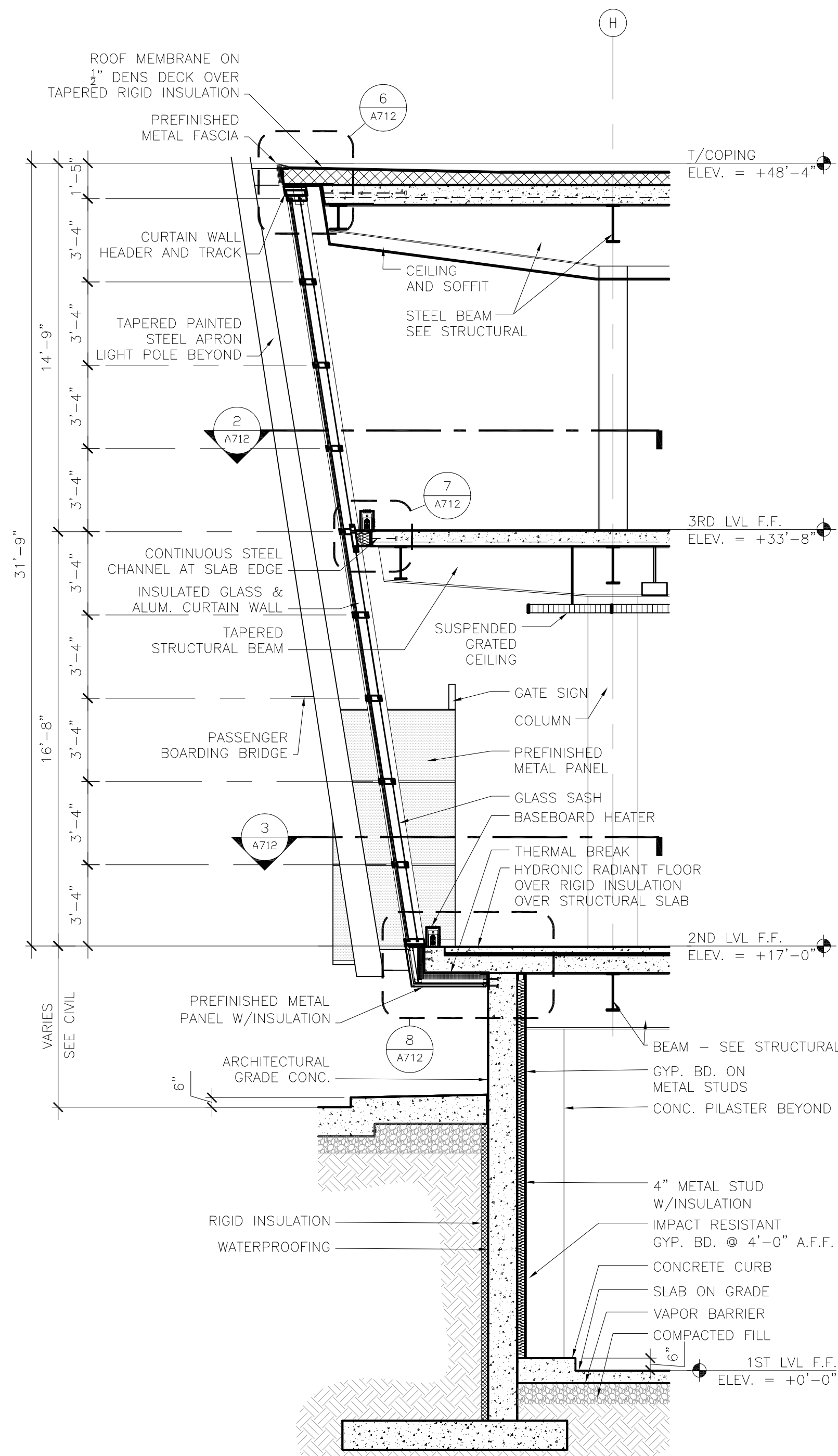
5 CURTAIN WALL HEAD DETAIL
1 1/2" = 1'-0"



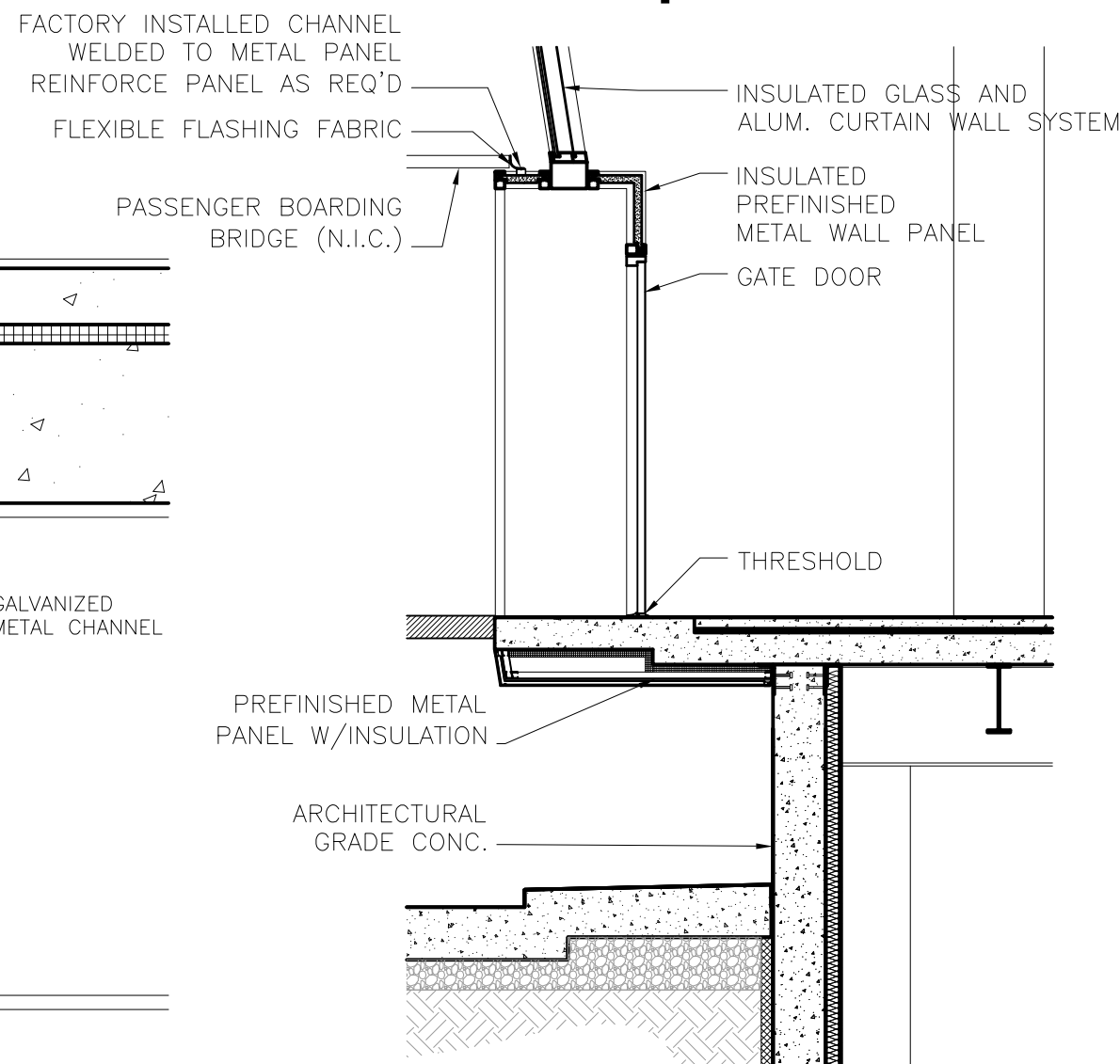
6 CURTAIN WALL HORIZONTAL MULLION DETAIL @ 2ND LEVEL
1 1/2" = 1'-0"



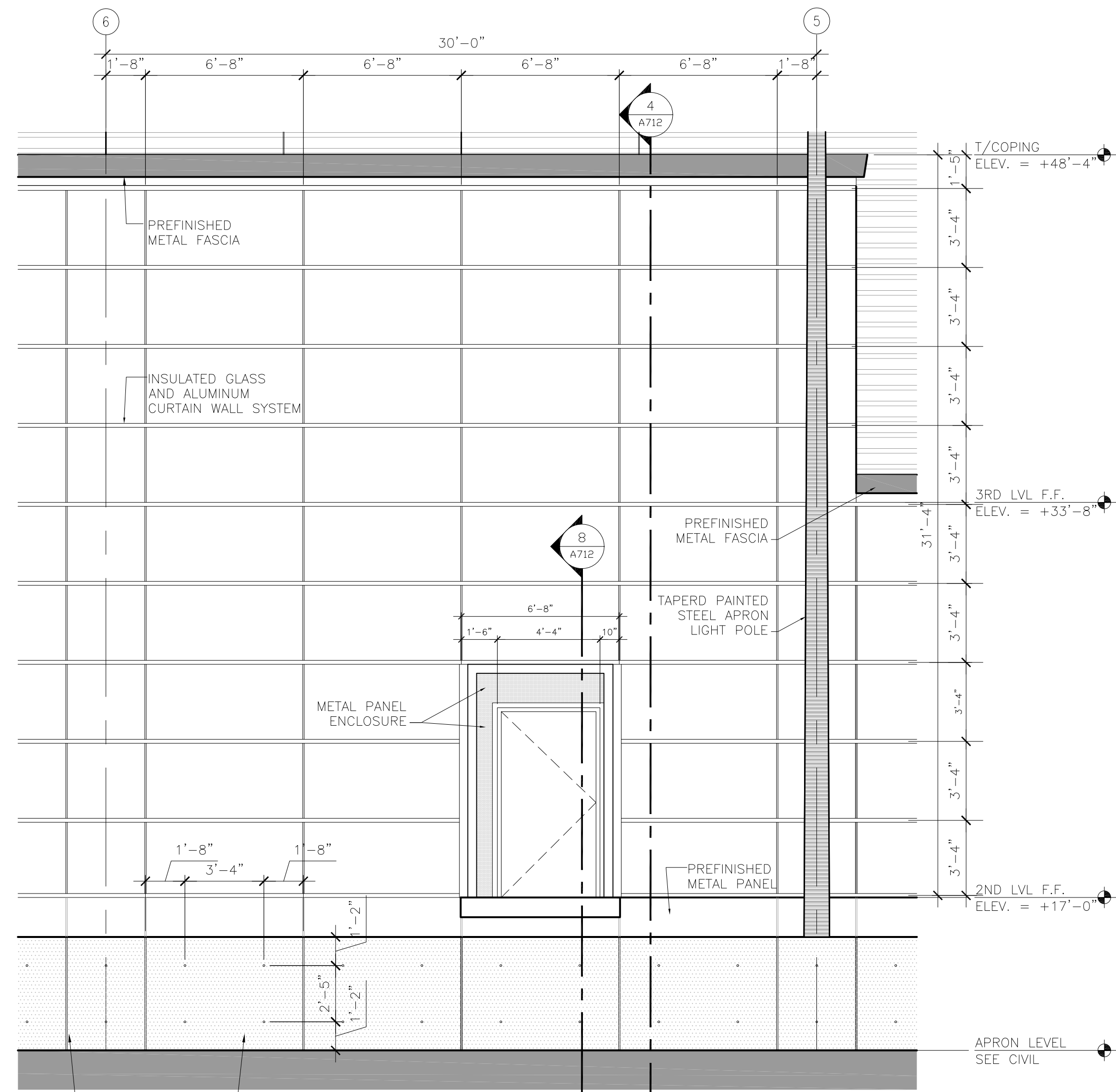
7 CURTAIN WALL SILL DETAIL
1 1/2" = 1'-0"



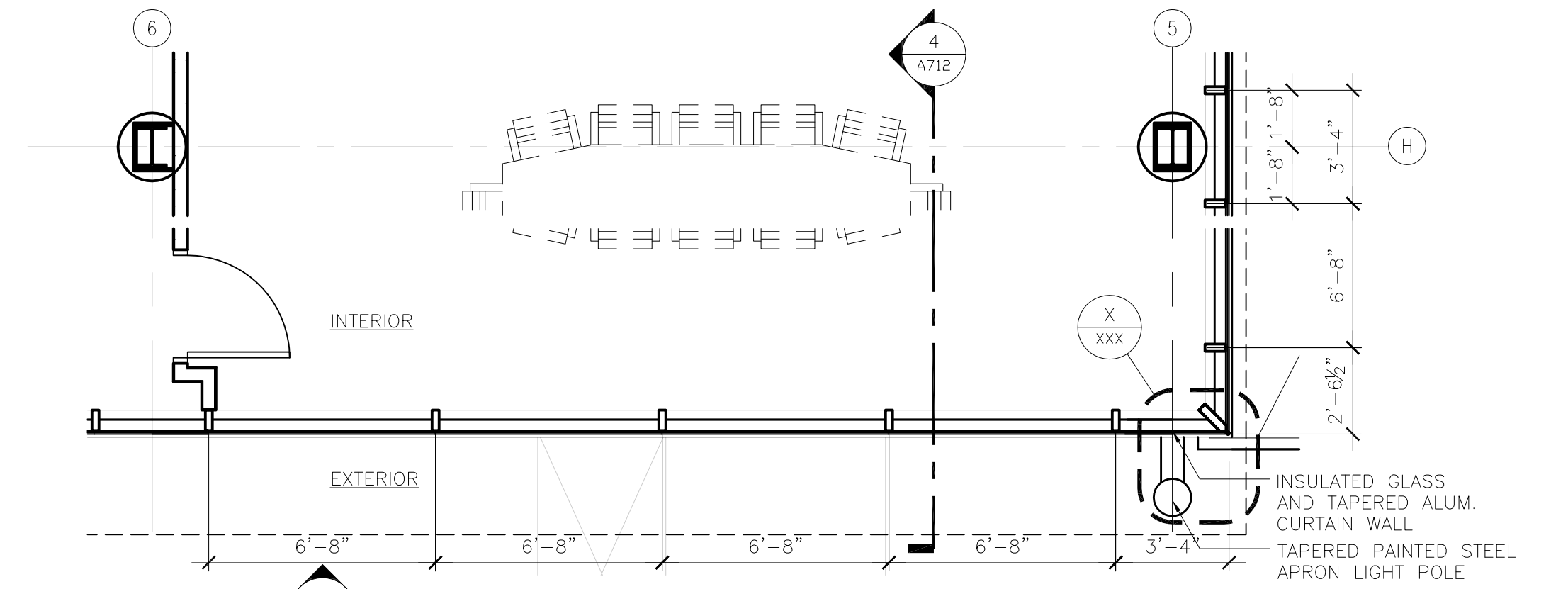
4 WALL SECTION
1/4" = 1'-0"



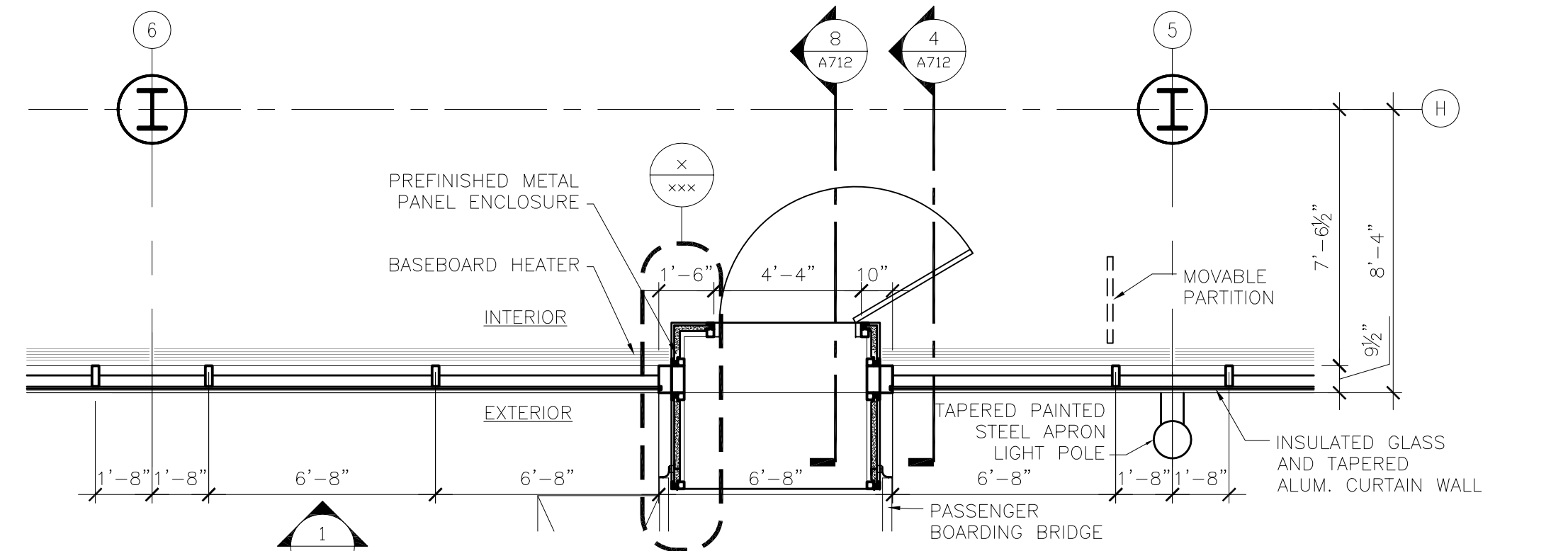
8 WALL SECTION
1/4" = 1'-0"



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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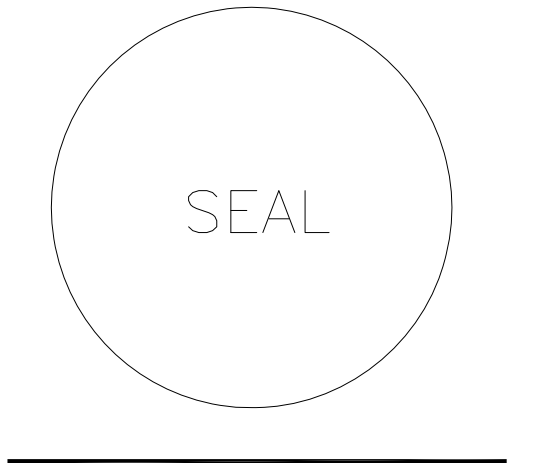
Interior Architects:
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Structural Engineers:
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M/E/P/F Engineers:
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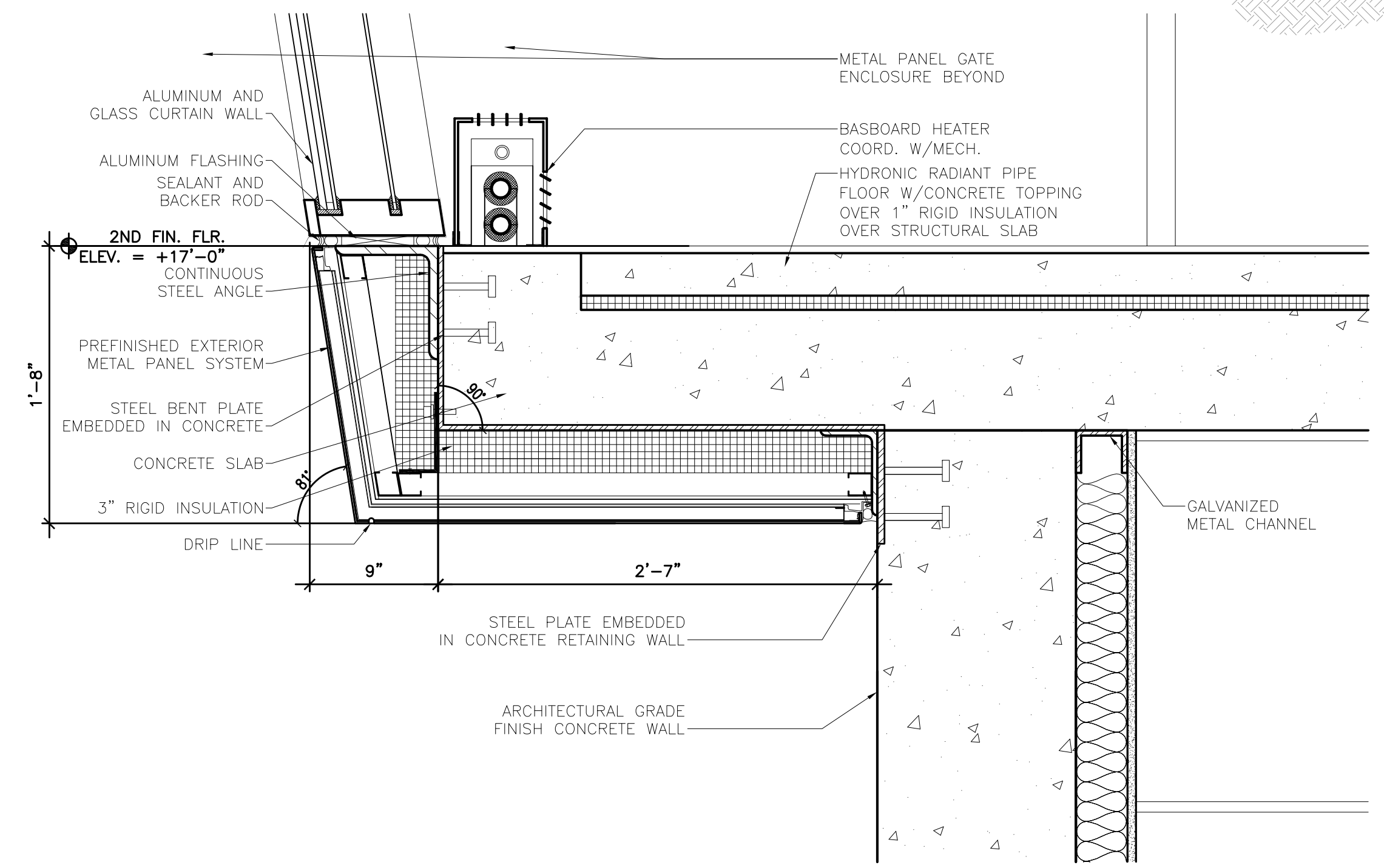
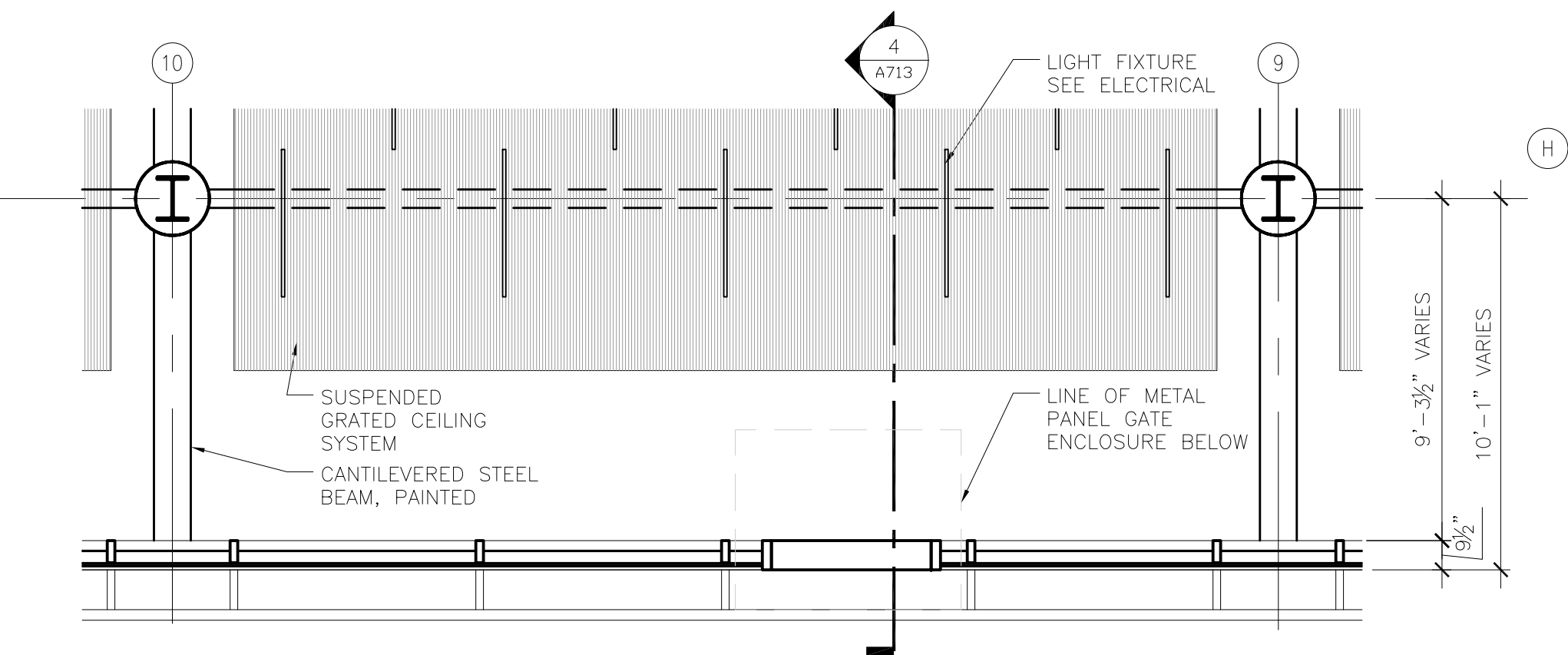
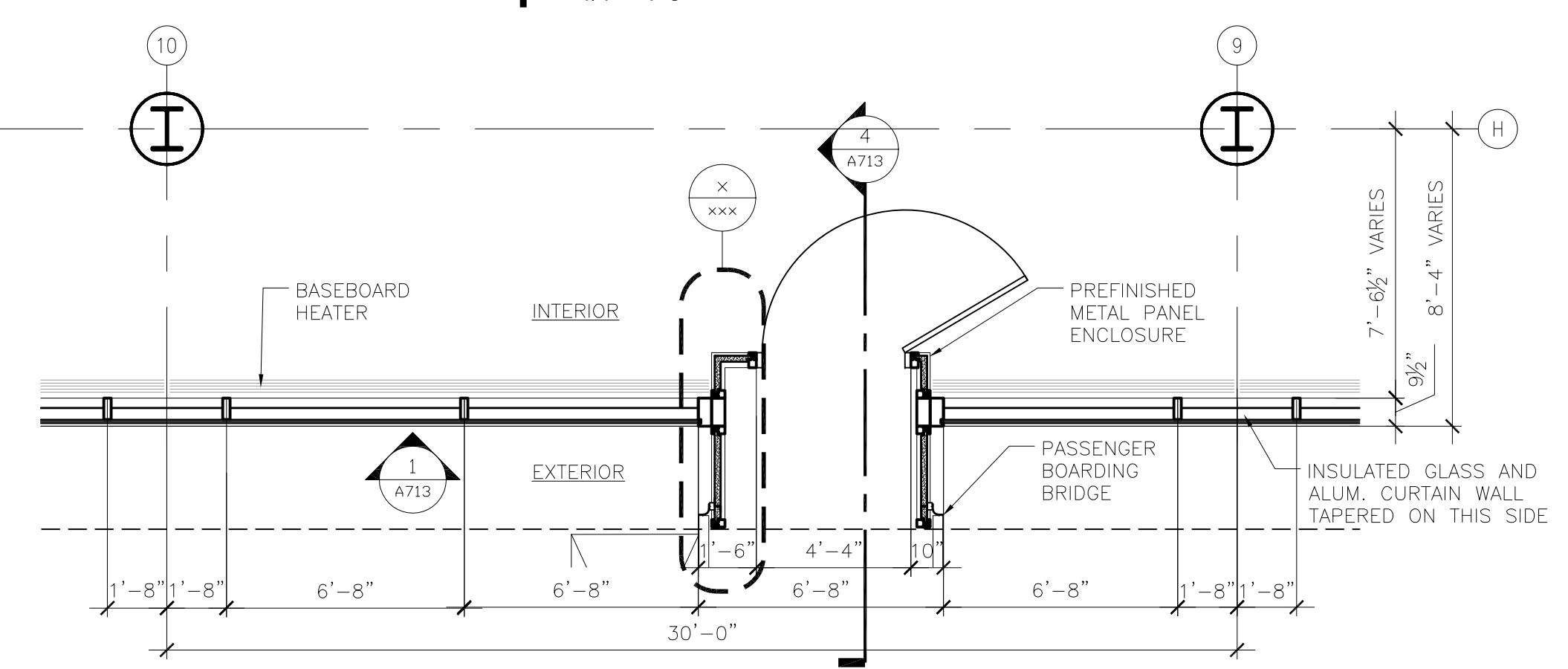
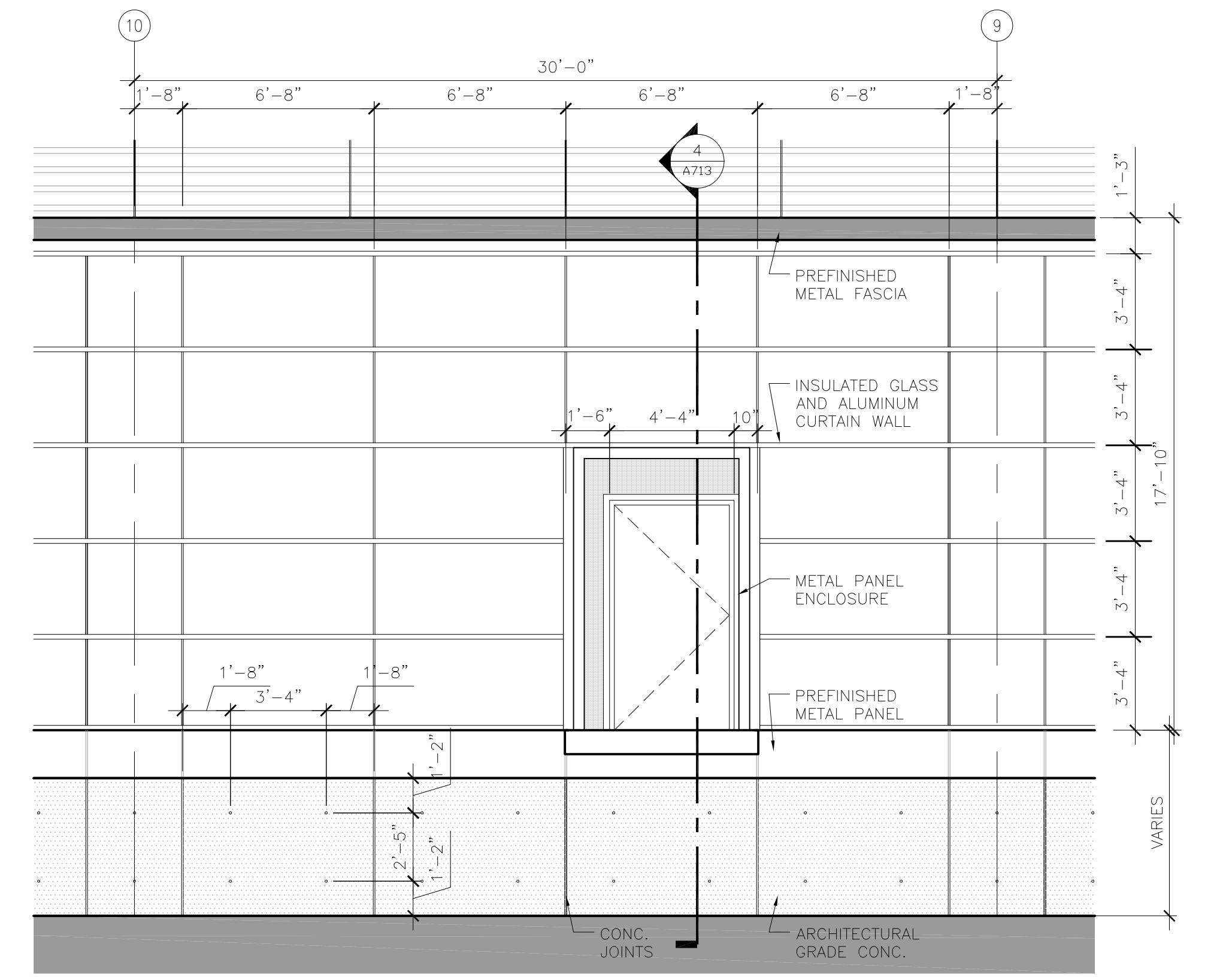
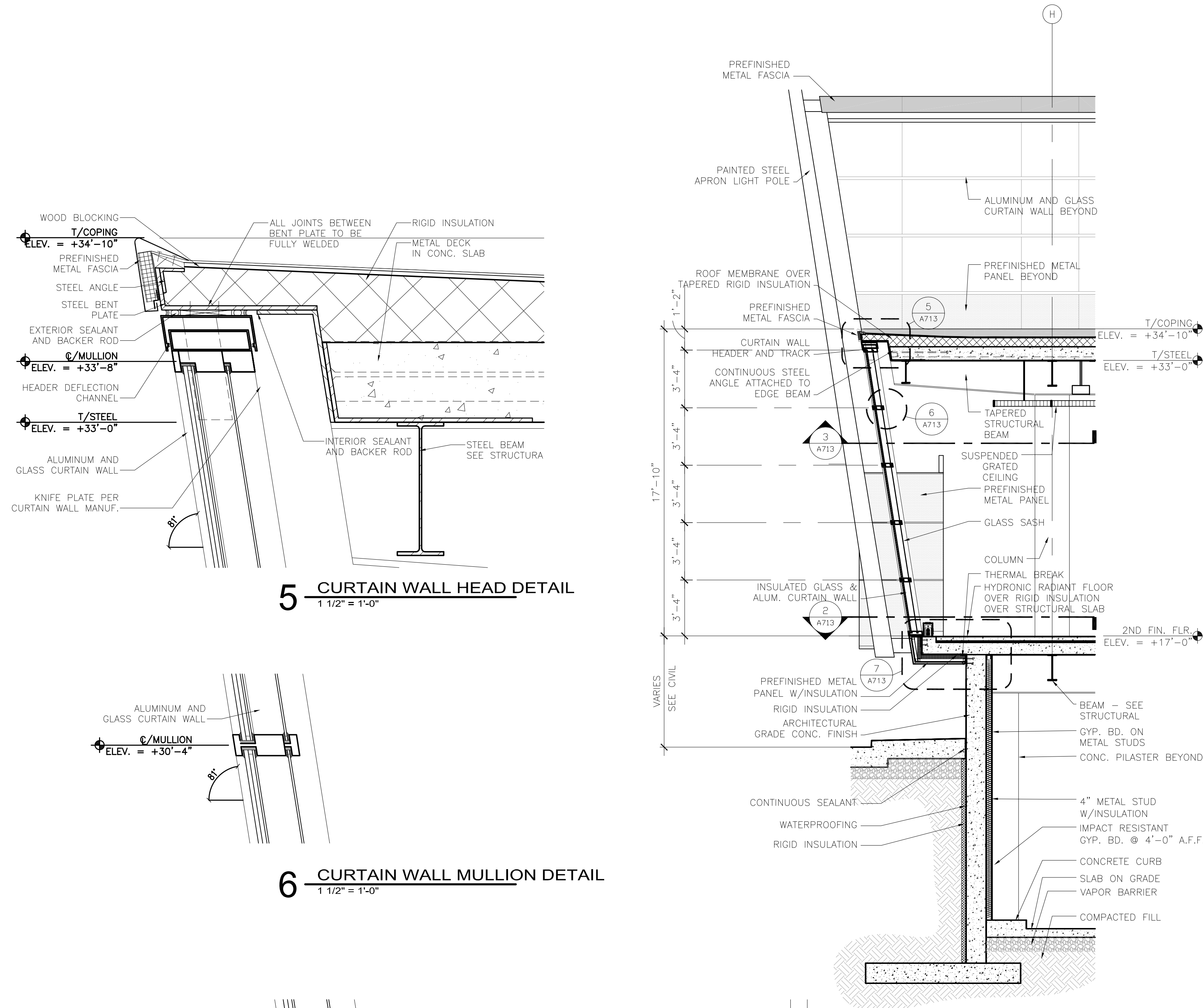
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NO.	DESCRIPTION	DATE

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DESIGNED BY: SBS/TC
AEP PROJECT NUMBER
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SHEET TITLE
**EXTERIOR SYSTEMS
AIRSIDE
CURTAIN WALL**

SHEET NUMBER
A712

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SHEET TITLE
**EXTERIOR SYSTEMS
AIRSIDE
CURTAIN WALL**

SHEET NUMBER
A713

**60% NOT FOR
CONSTRUCTION**

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Structural Engineers:
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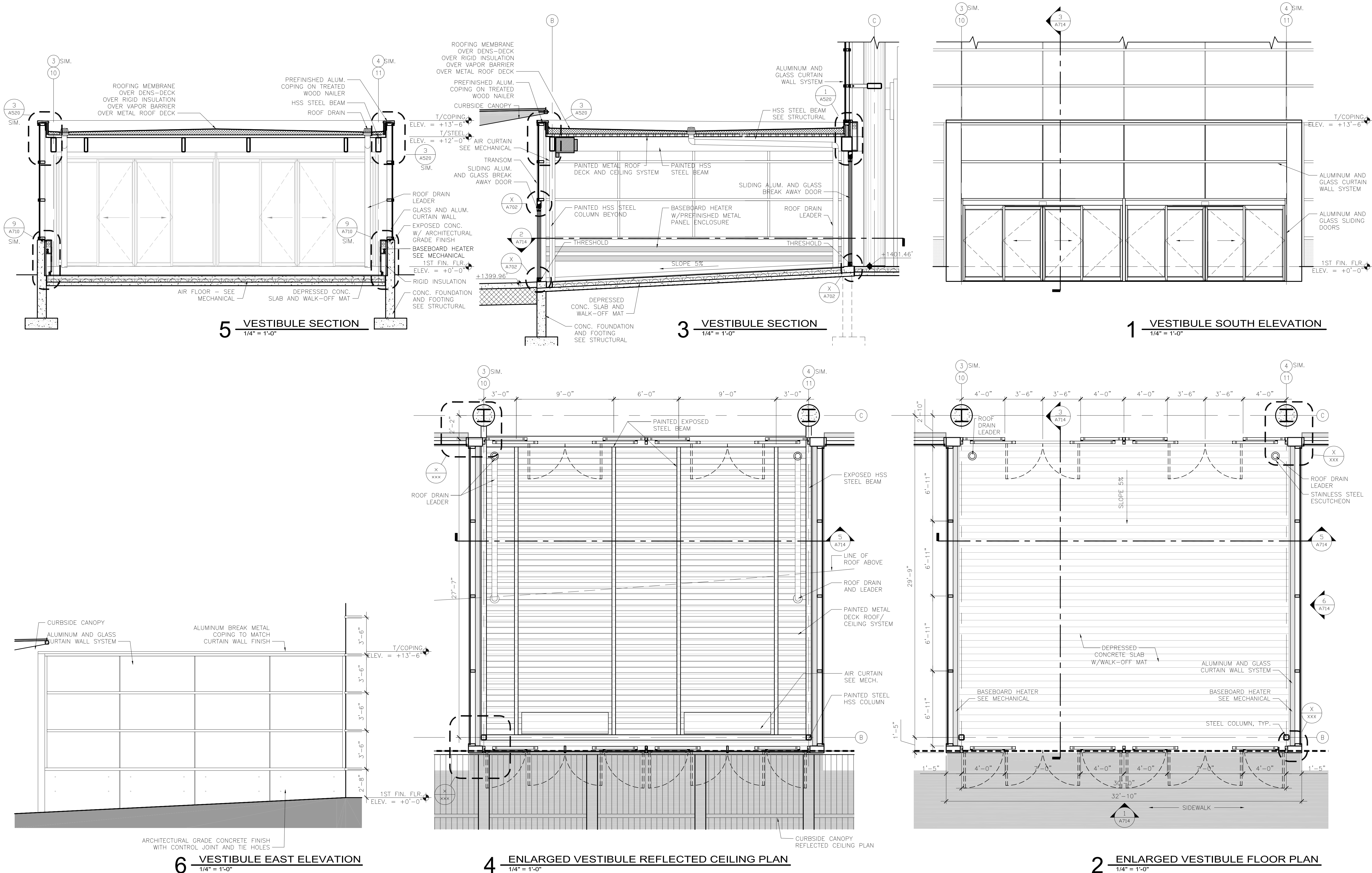
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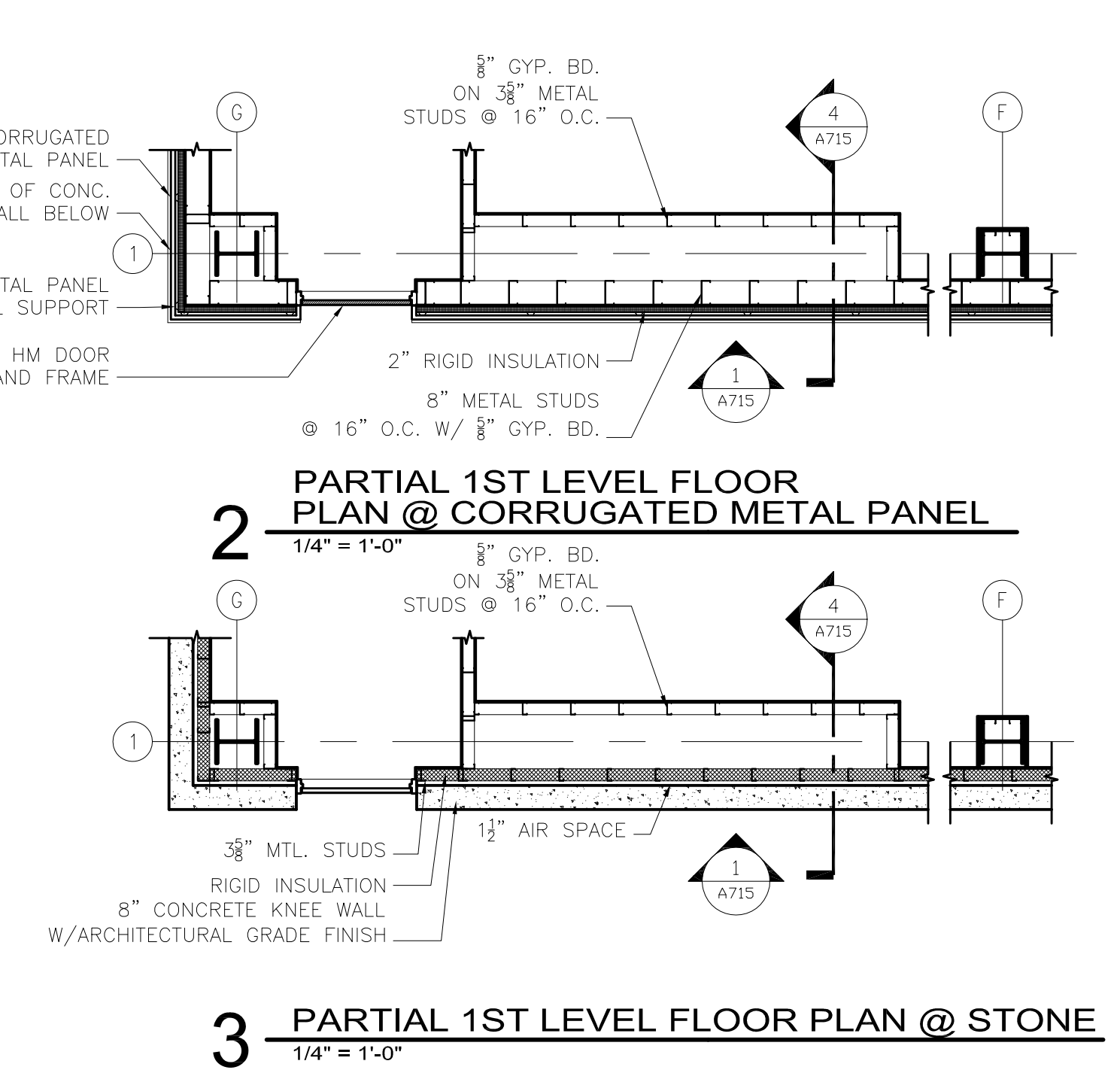
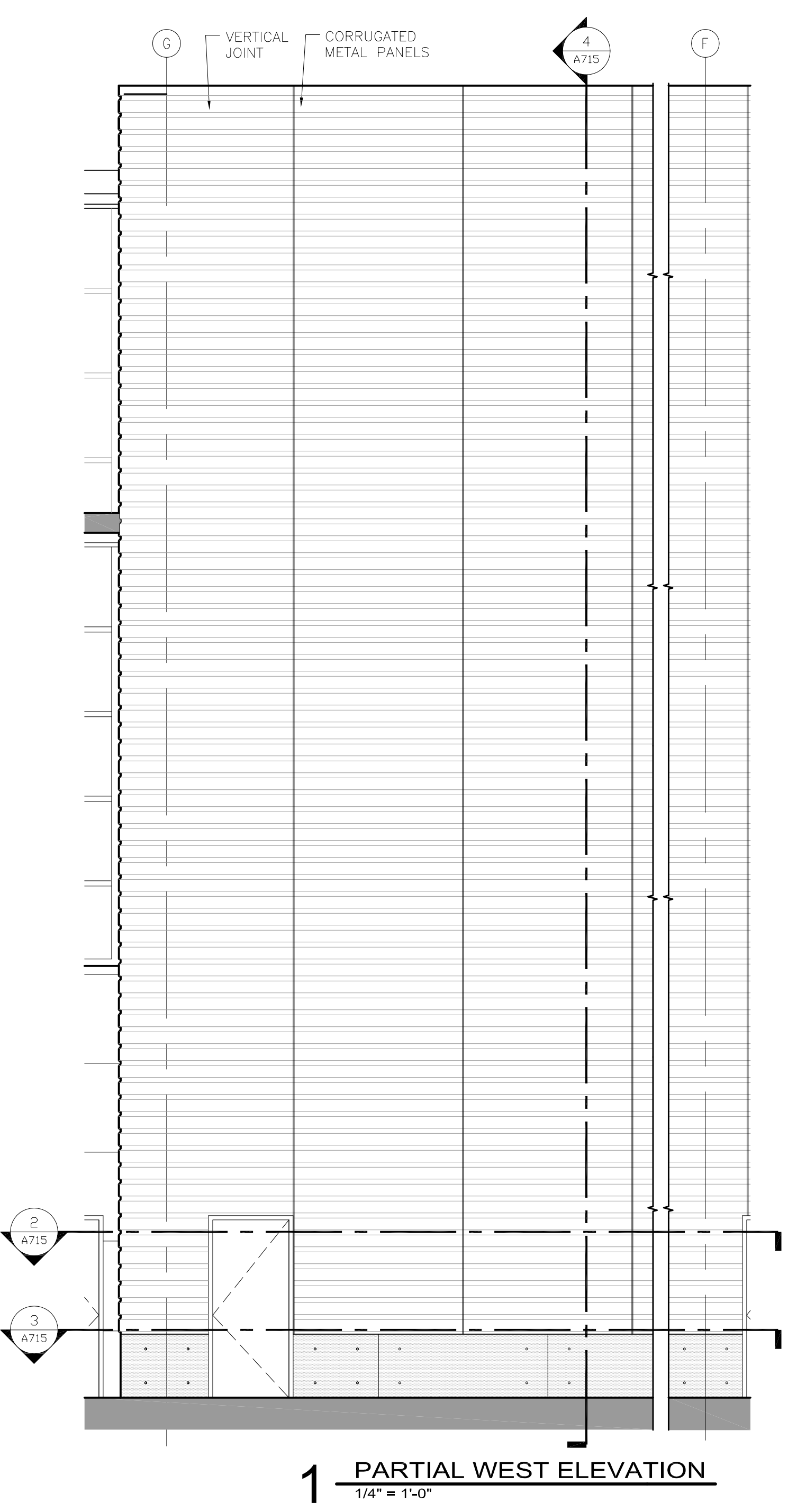
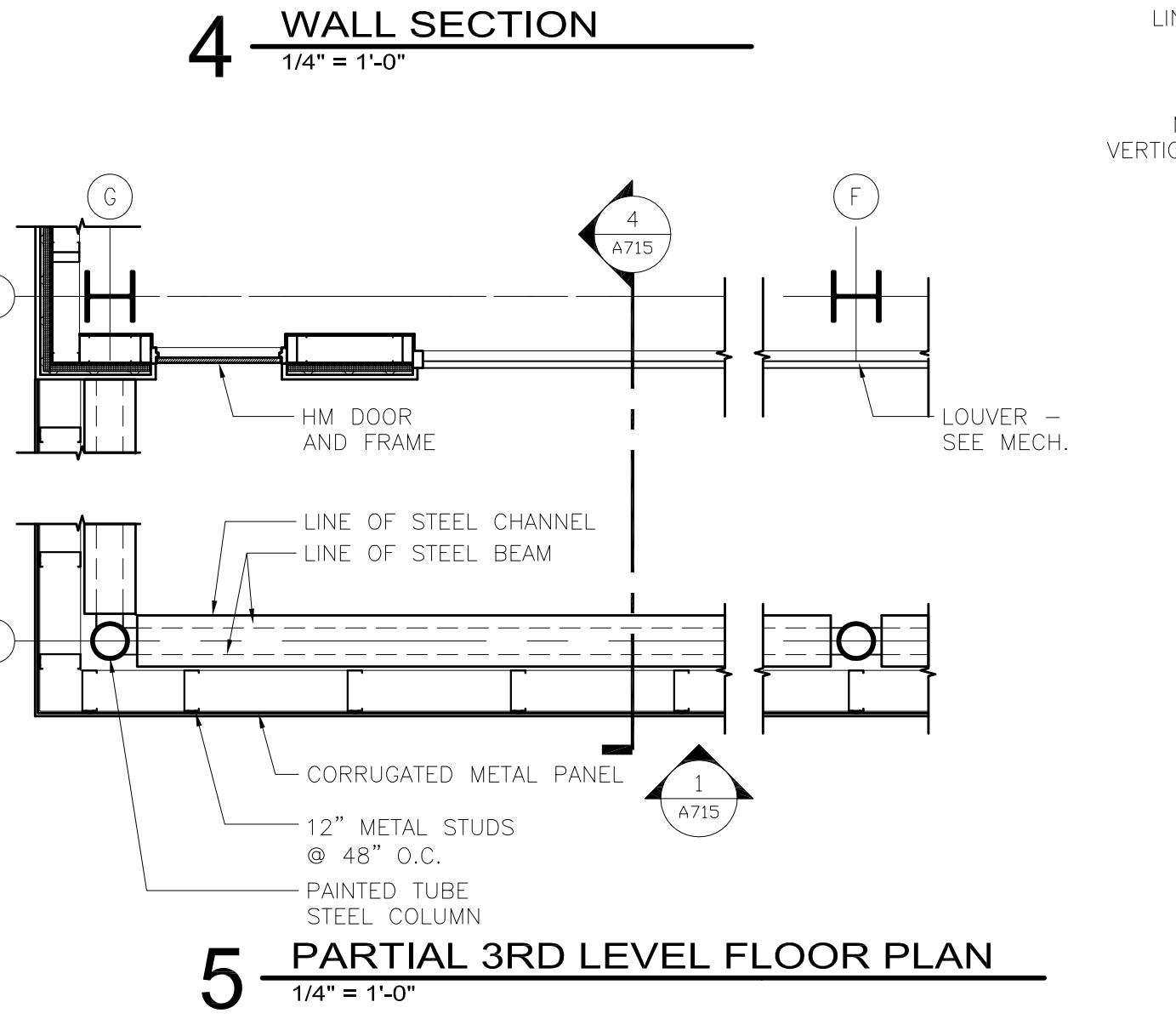
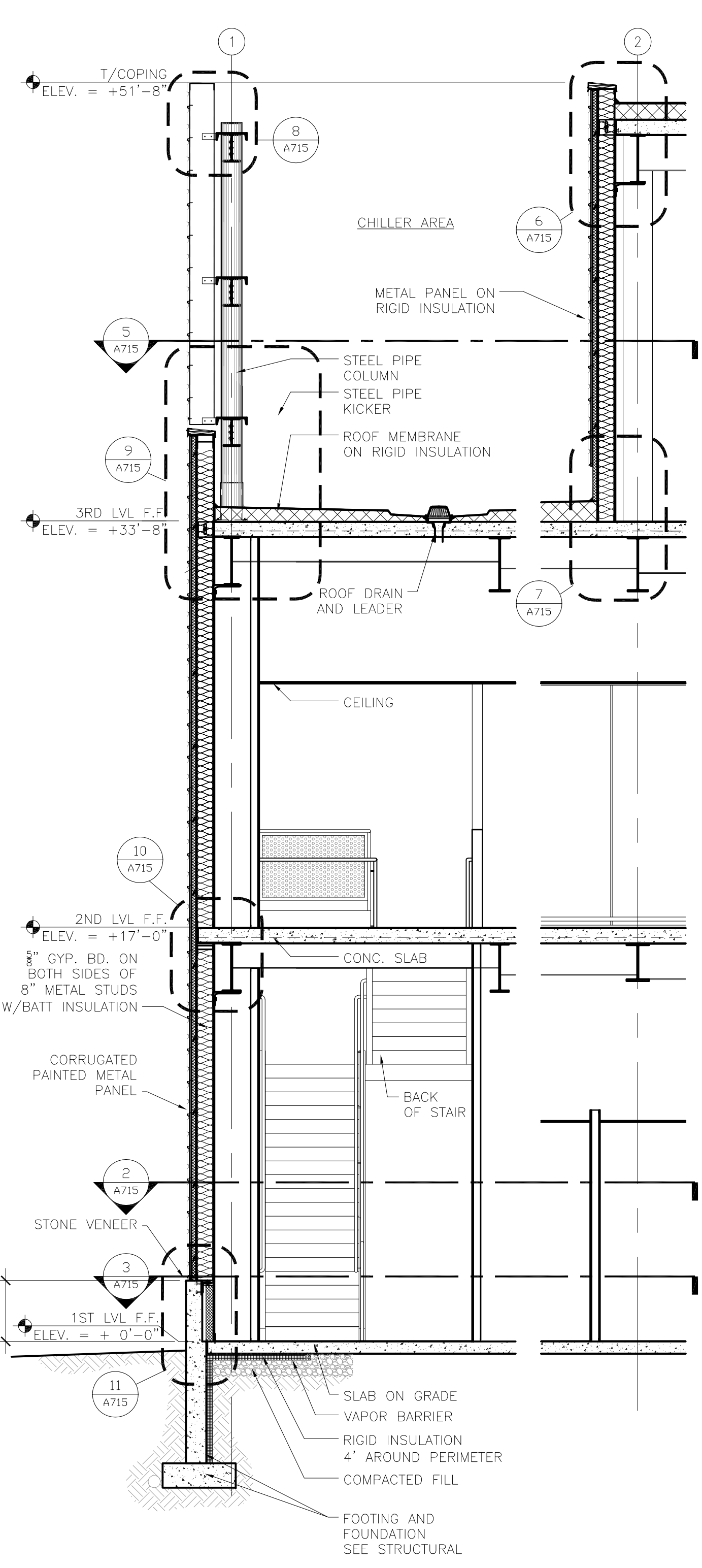
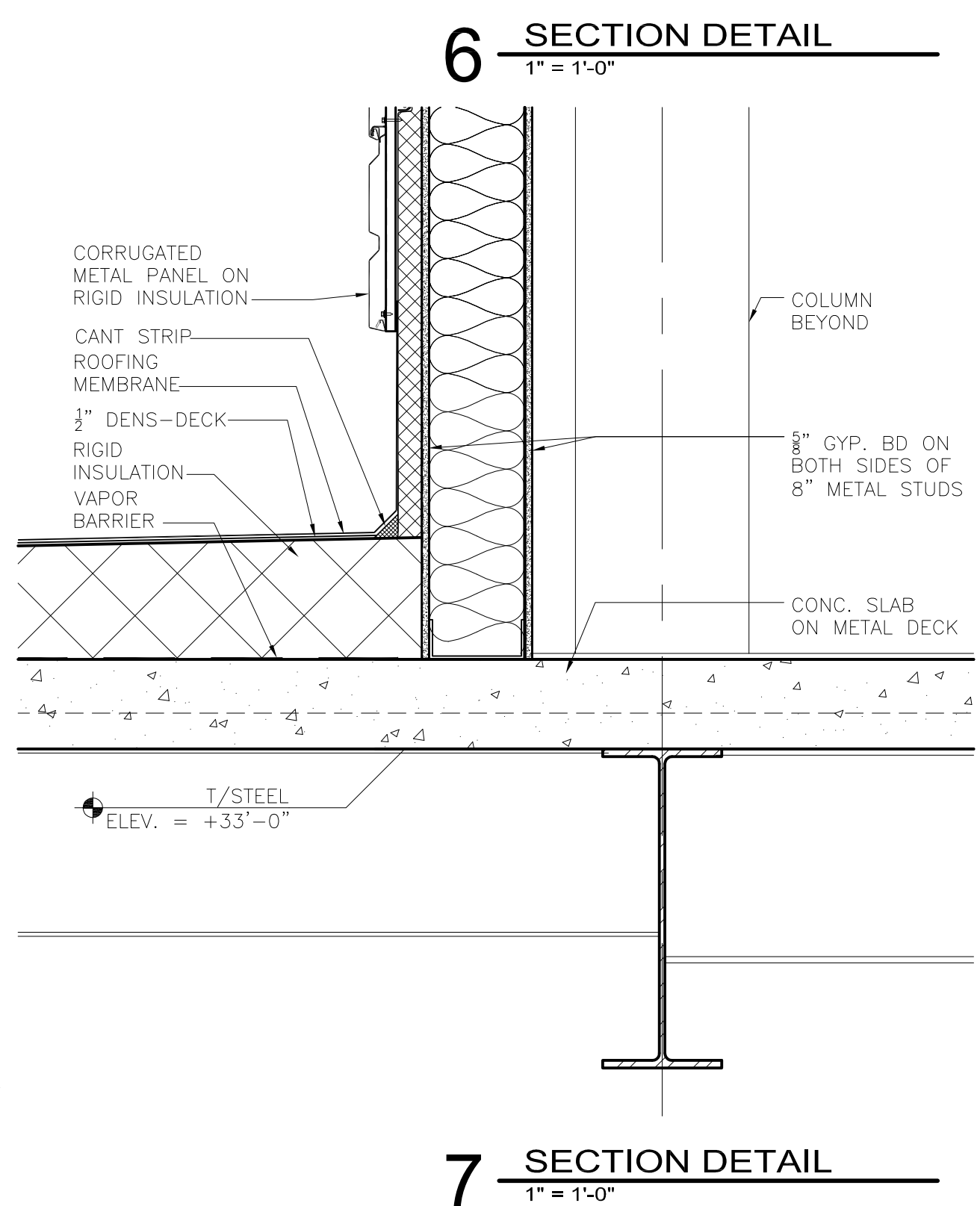
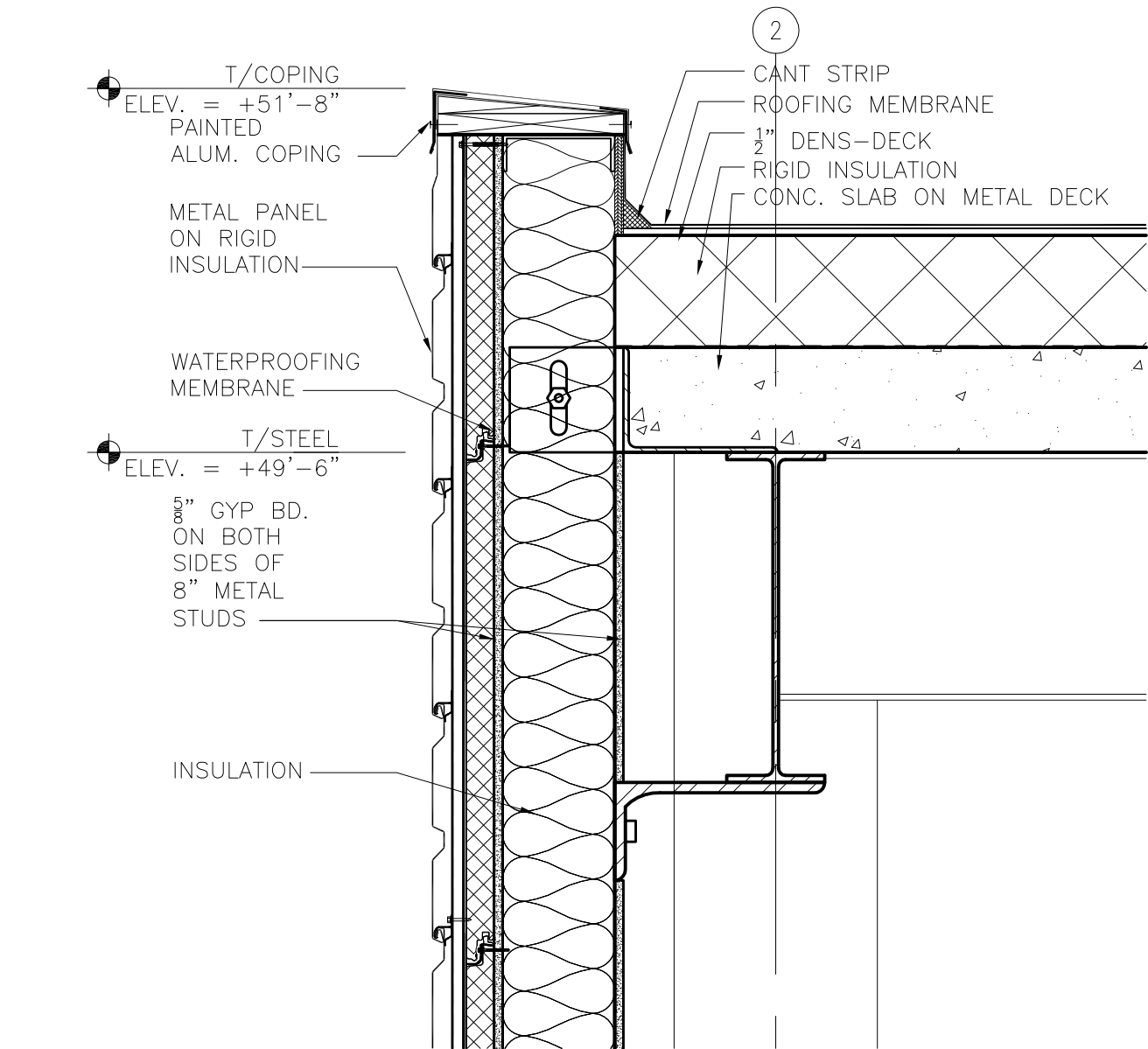
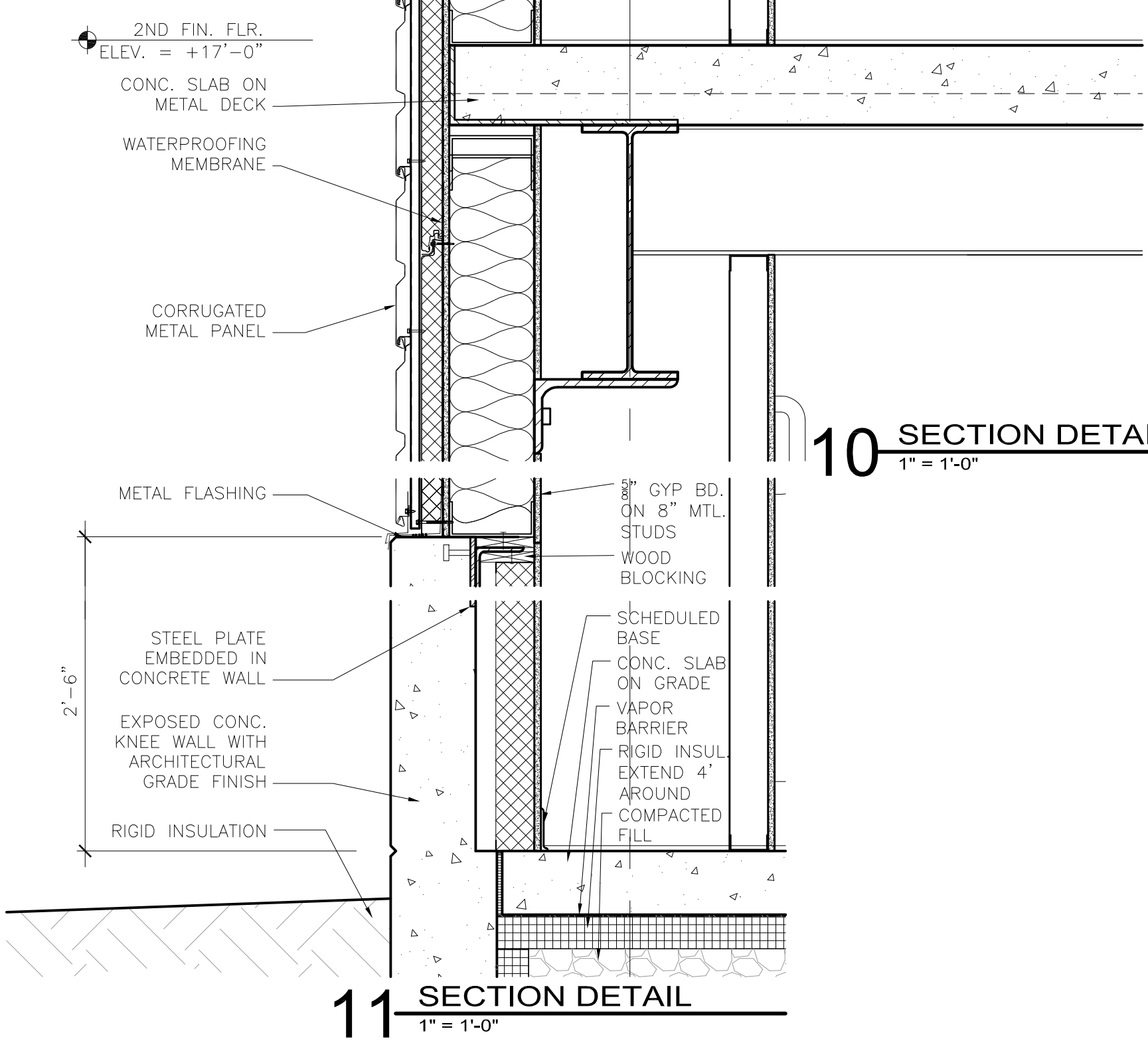
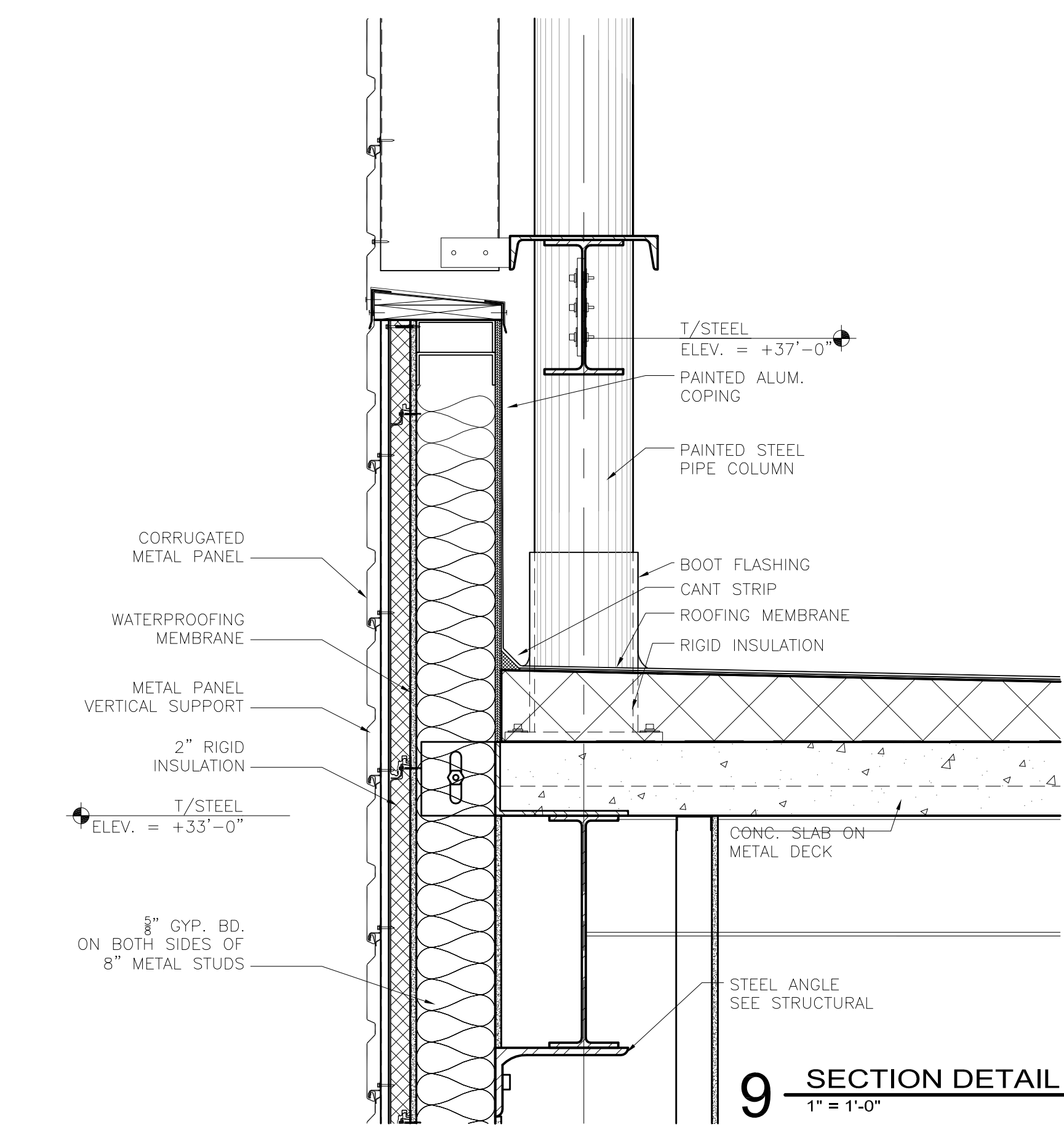
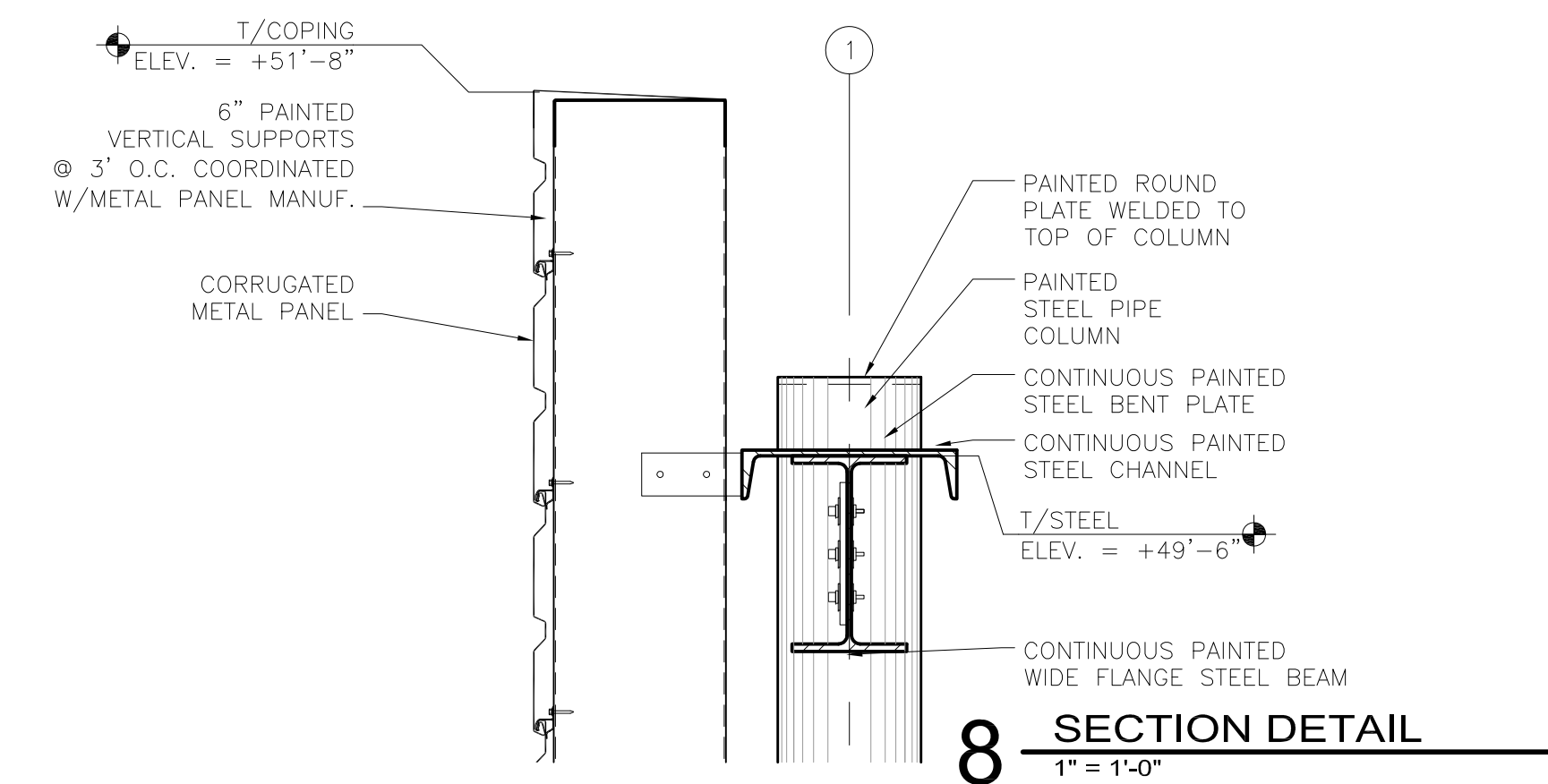
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SHEET TITLE
**EXTERIOR SYSTEMS
ENTRY VESTIBULE**

SHEET NUMBER
A714

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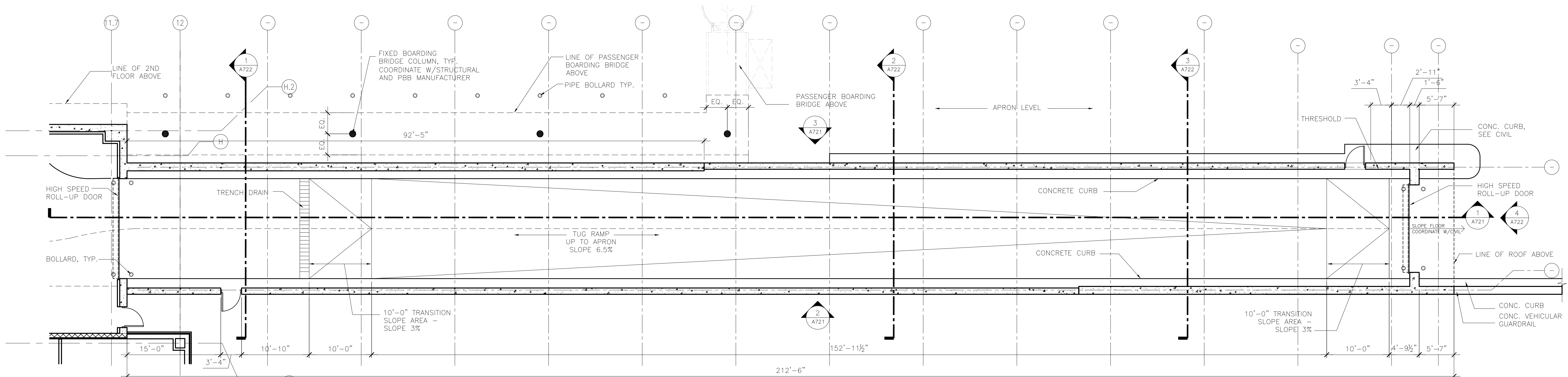
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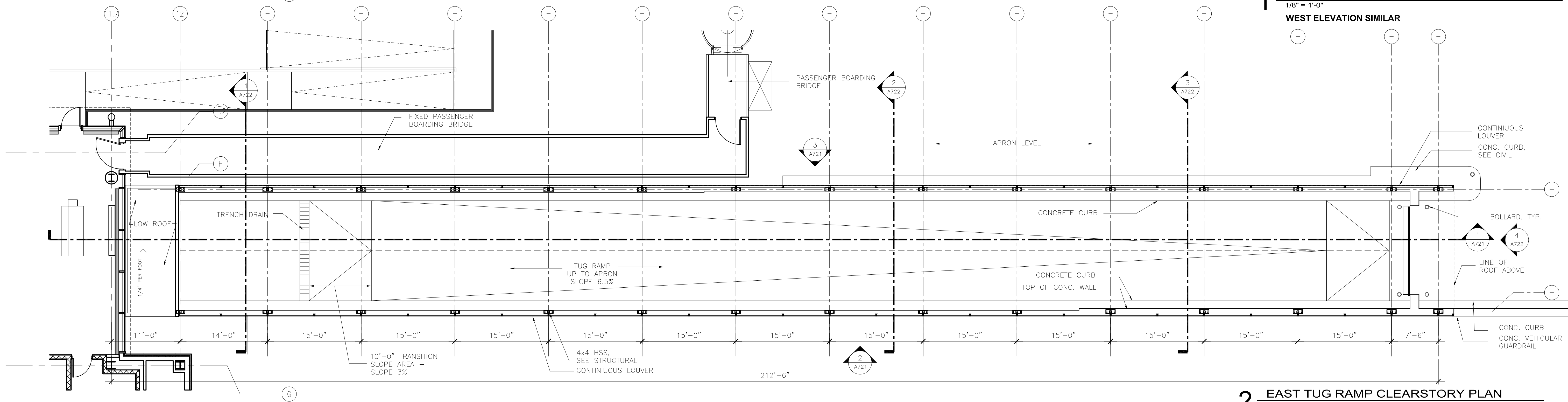
SHEET TITLE
**EXTERIOR SYSTEMS
CORE WALL**

SHEET NUMBER
A715

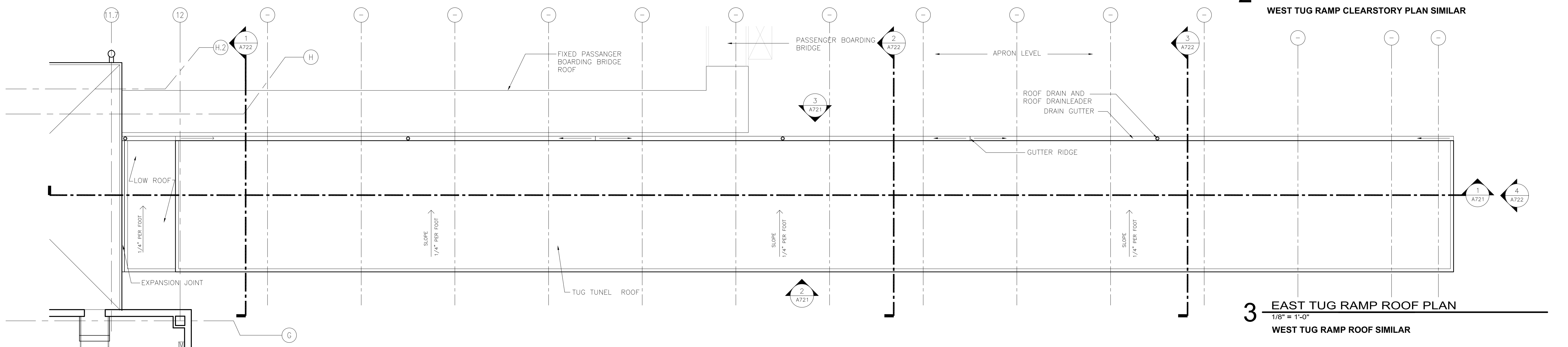
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1 EAST TUG RAMP FLOOR PLAN
1/8" = 1'-0"
WEST ELEVATION SIMILAR



2 EAST TUG RAMP CLEARSTORY PLAN
1/8" = 1'-0"
WEST TUG RAMP CLEARSTORY PLAN SIMILAR



3 EAST TUG RAMP ROOF PLAN
1/8" = 1'-0"
WEST TUG RAMP ROOF SIMILAR

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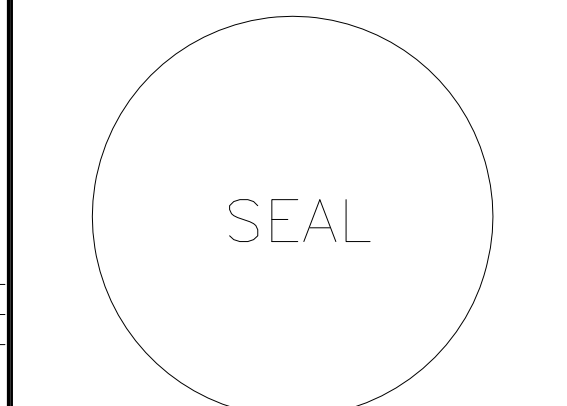
Interior Architects:
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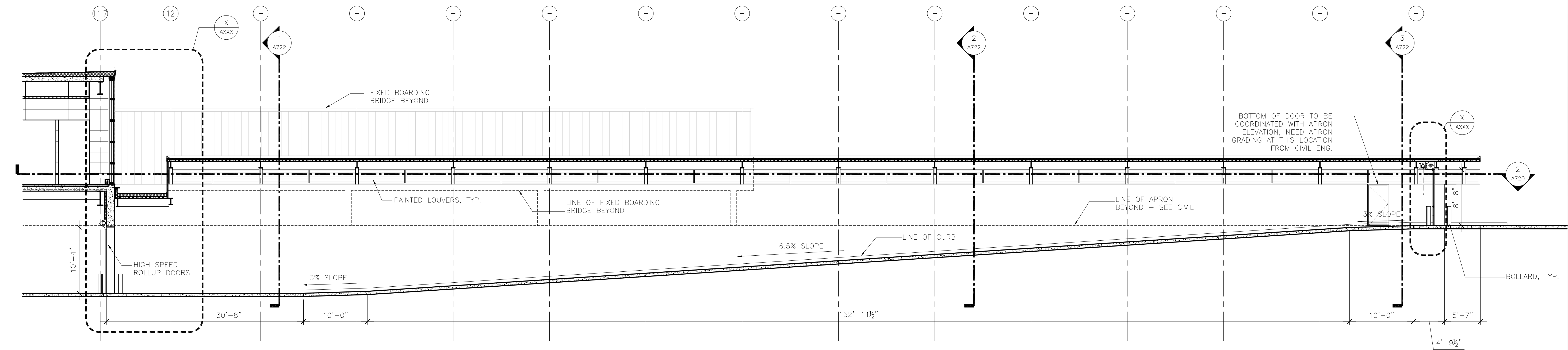
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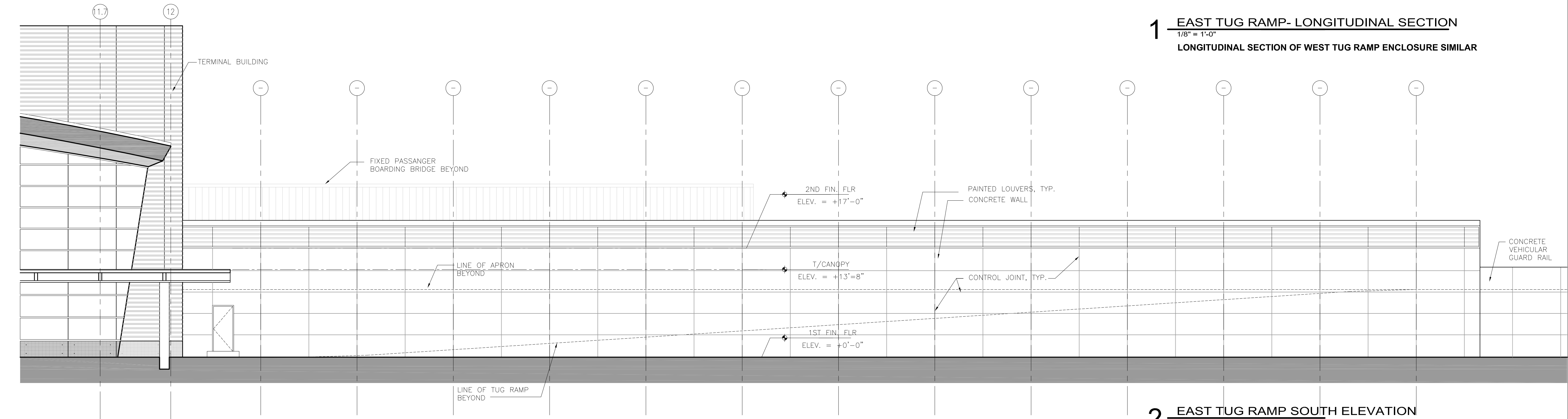
SHEET TITLE
**EXTERIOR SYSTEMS
TUG TUNNEL**

SHEET NUMBER
A720

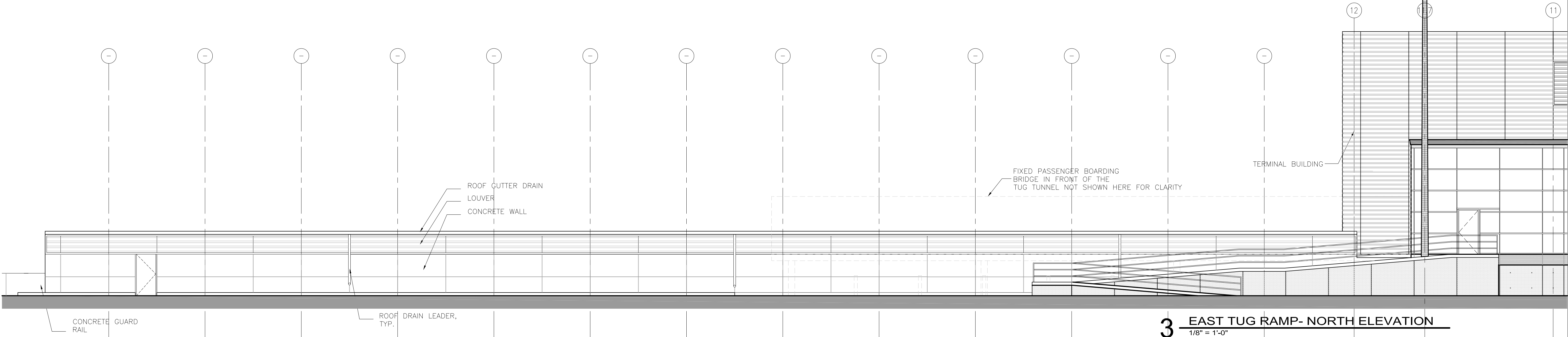
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1 EAST TUG RAMP- LONGITUDINAL SECTION
1/8" = 1'-0"
LONGITUDINAL SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR



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



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

CONSULTANTS

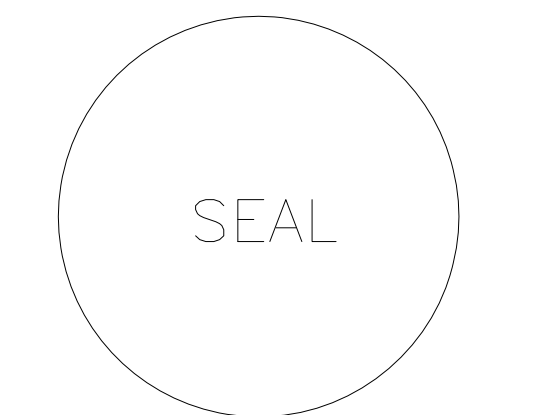
Interior Architects:
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SHEET TITLE
**EXTERIOR SYSTEMS
TUG TUNNEL**

SHEET NUMBER
A721

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Interior Architects:
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Structural Engineers:
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Landscaping Consultants:
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NO.	DESCRIPTION	DATE

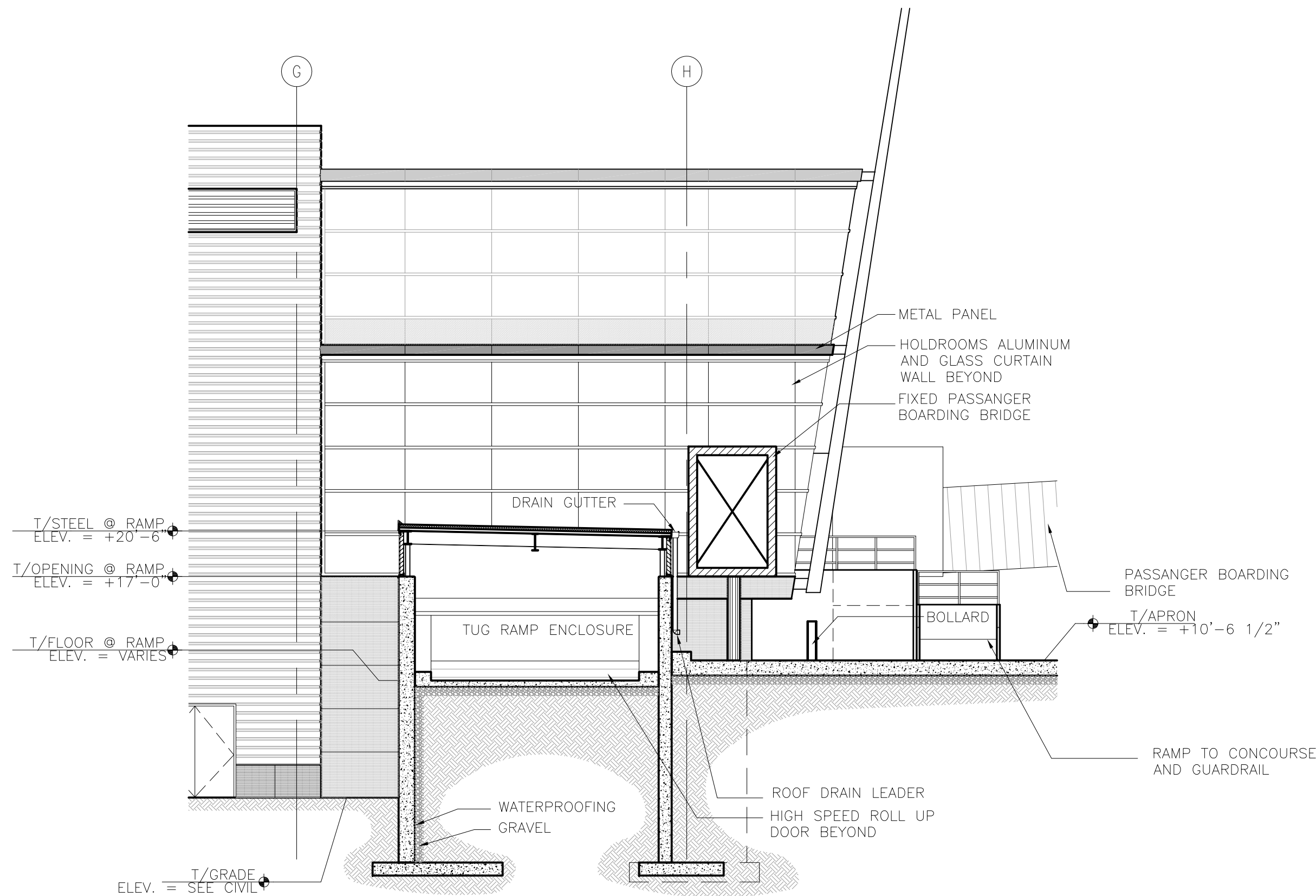
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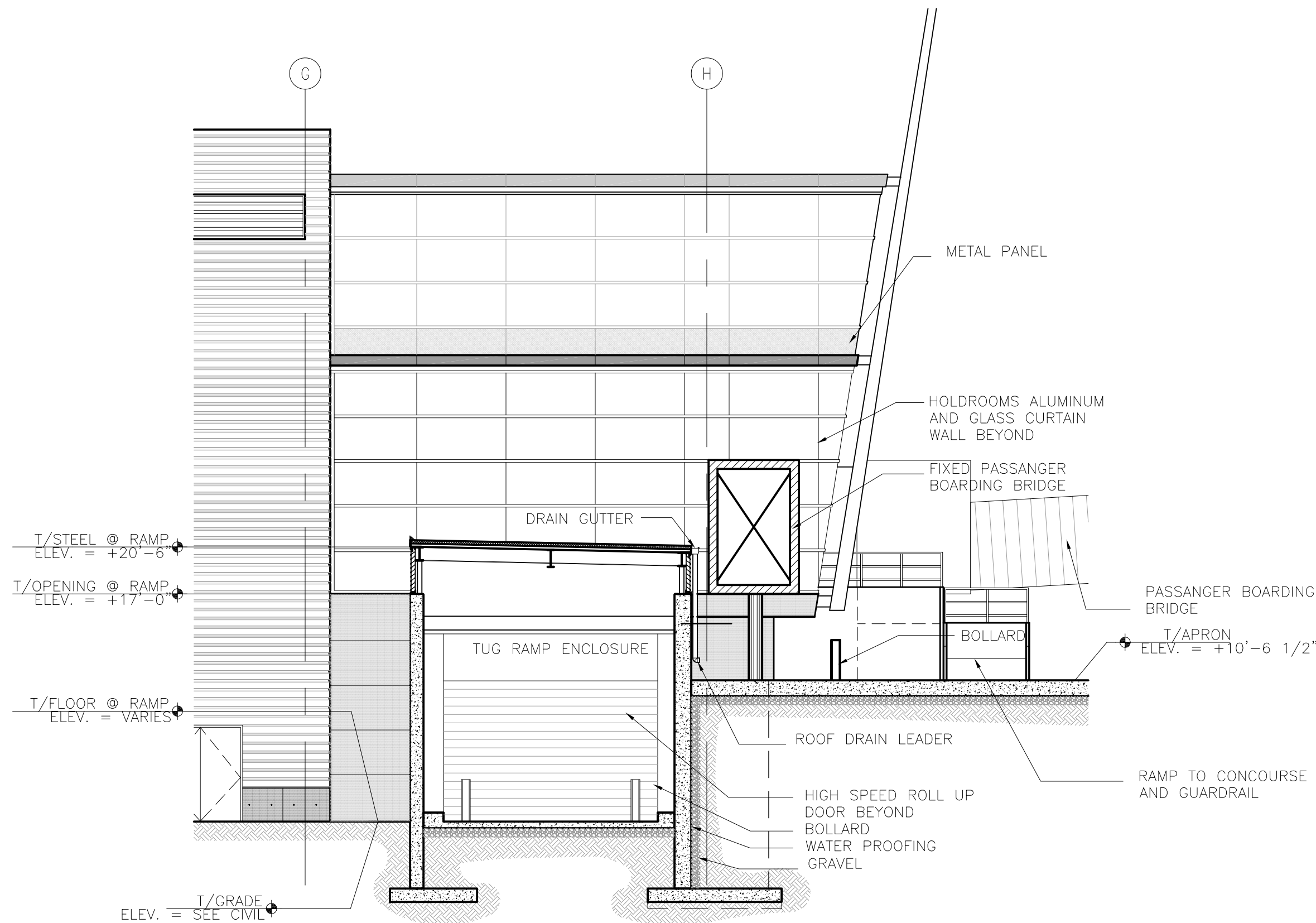
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**EXTERIOR SYSTEMS
TUG TUNNEL**

SHEET NUMBER
A722

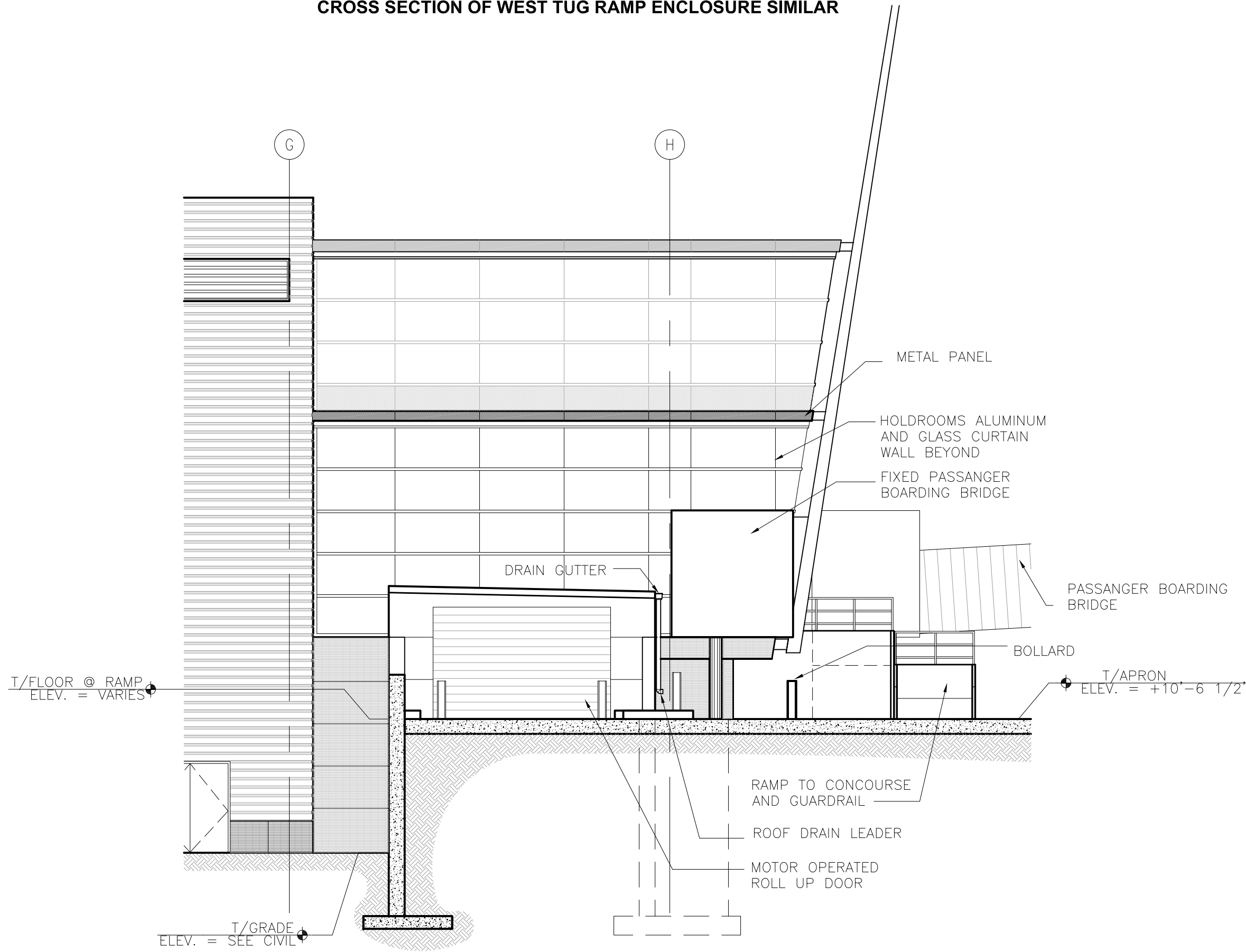
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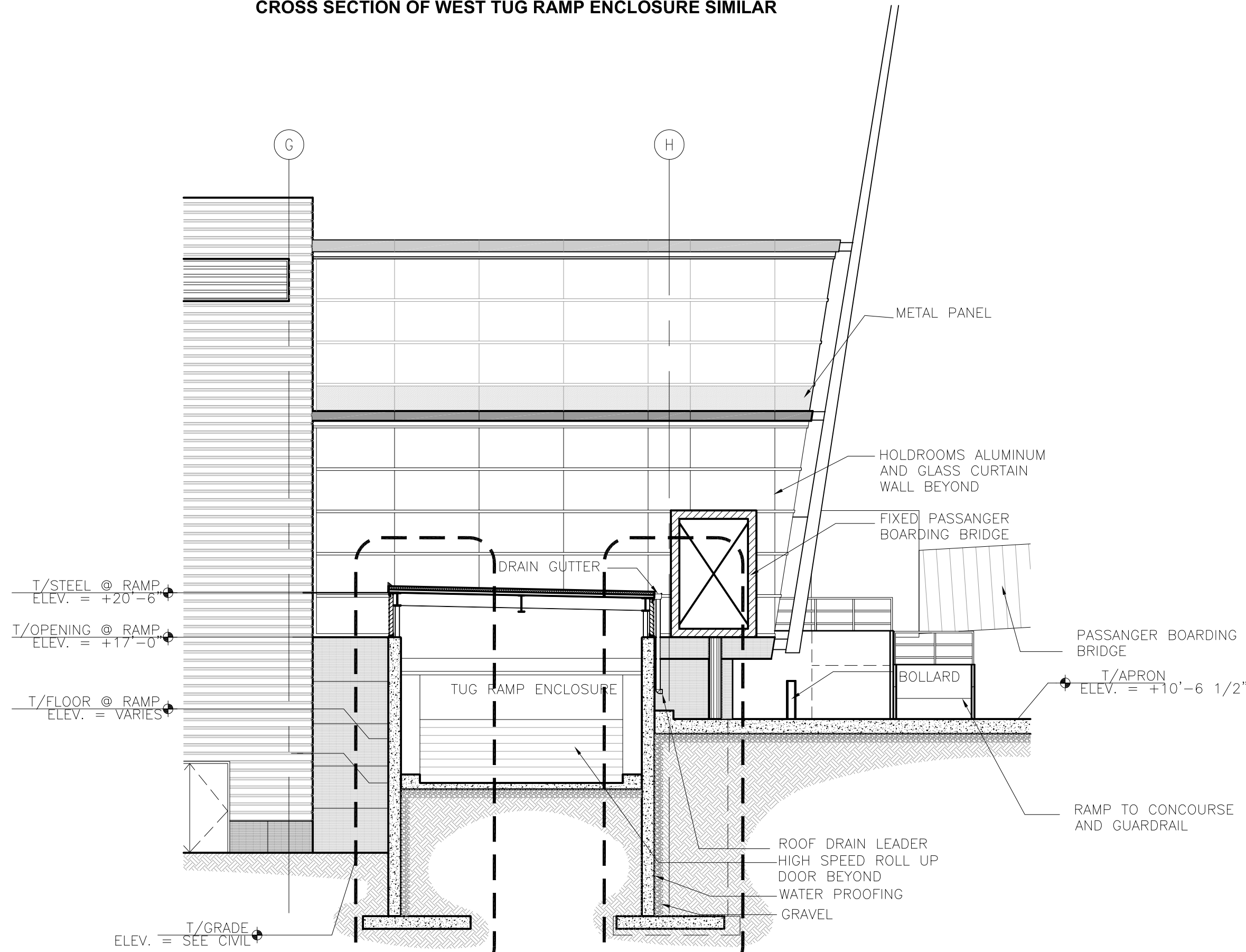
3 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND
1/8" = 1'-0"
CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR



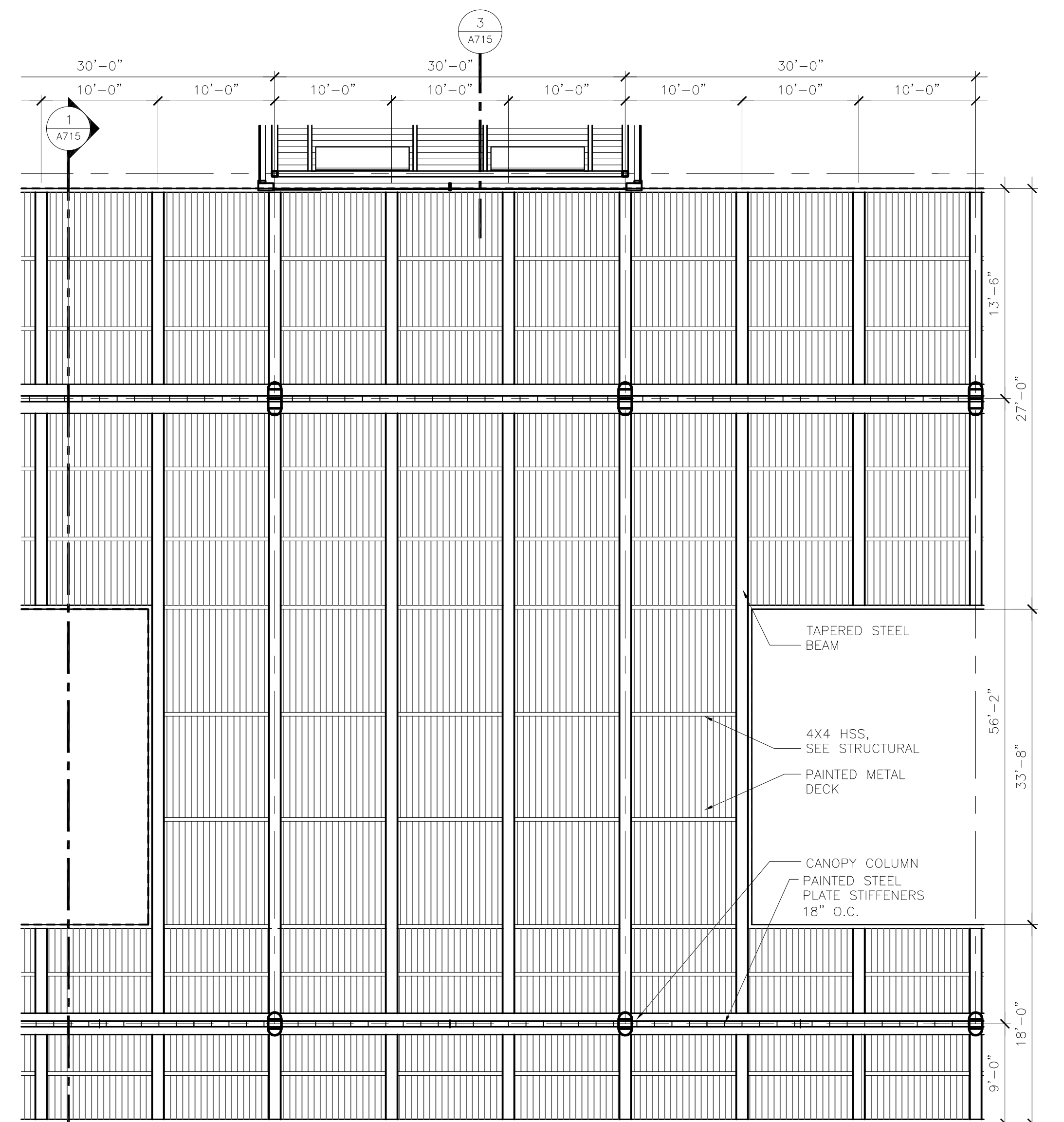
1 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND
1/8" = 1'-0"
CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR



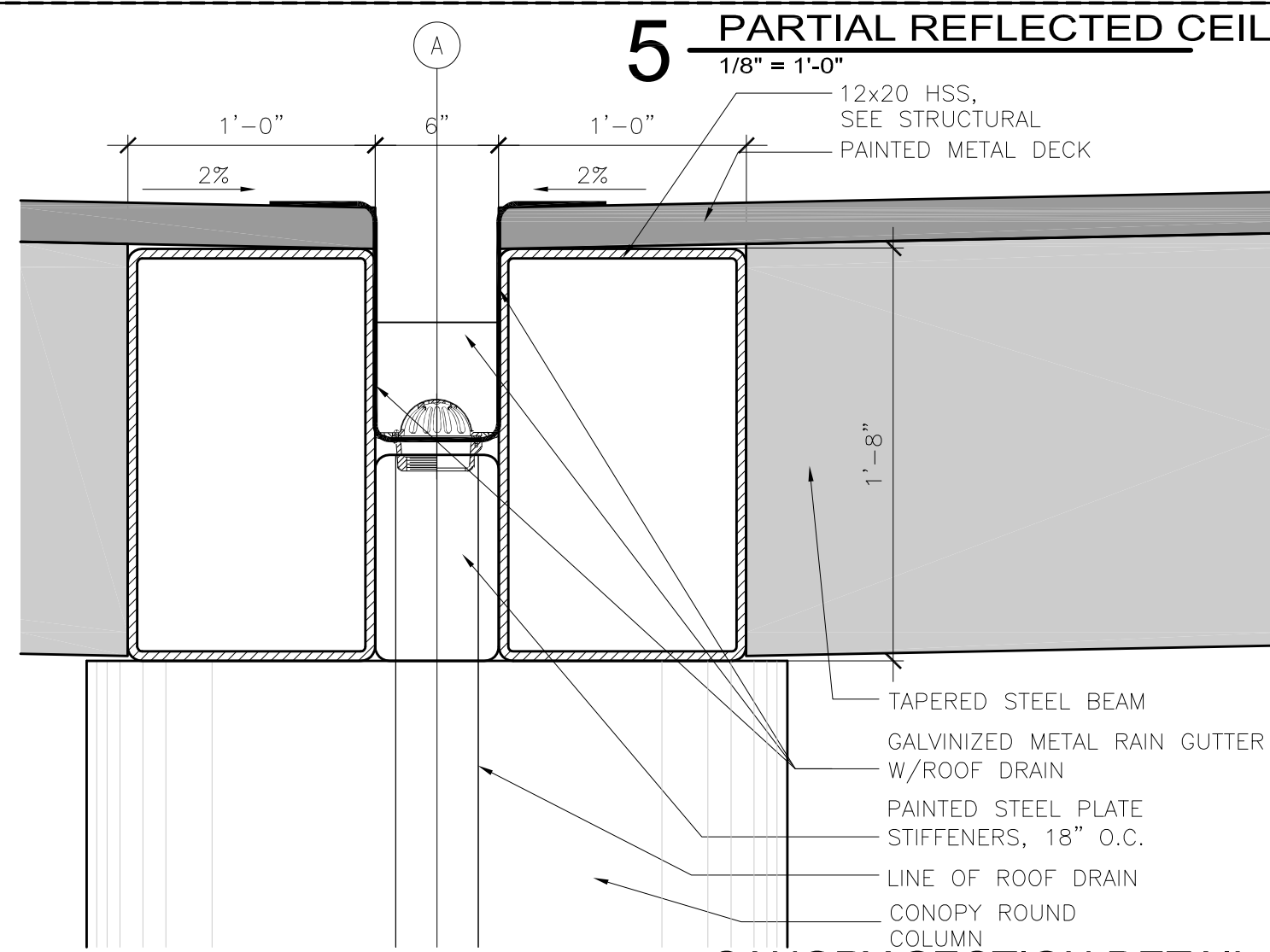
4 EAST TUG RAMP ENCLOSURE- EAST ELEVATION
1/8" = 1'-0"
WEST ELEVATION OF WEST TUG RAMP ENCLOSURE SIMILAR



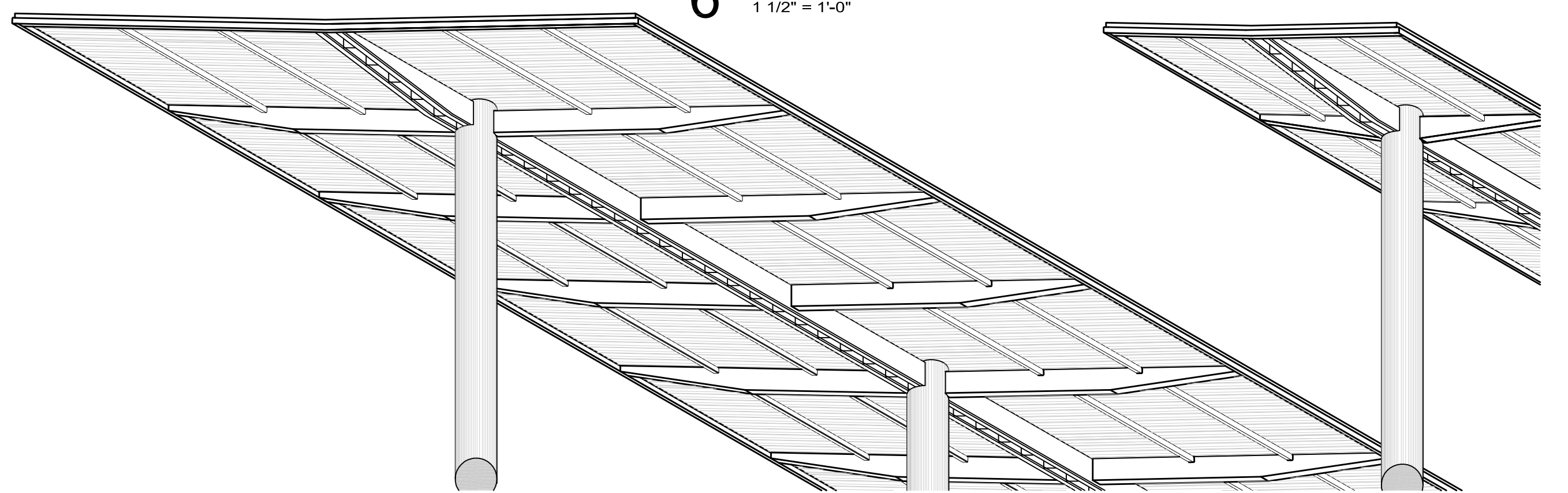
2 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND
1/8" = 1'-0"
CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR



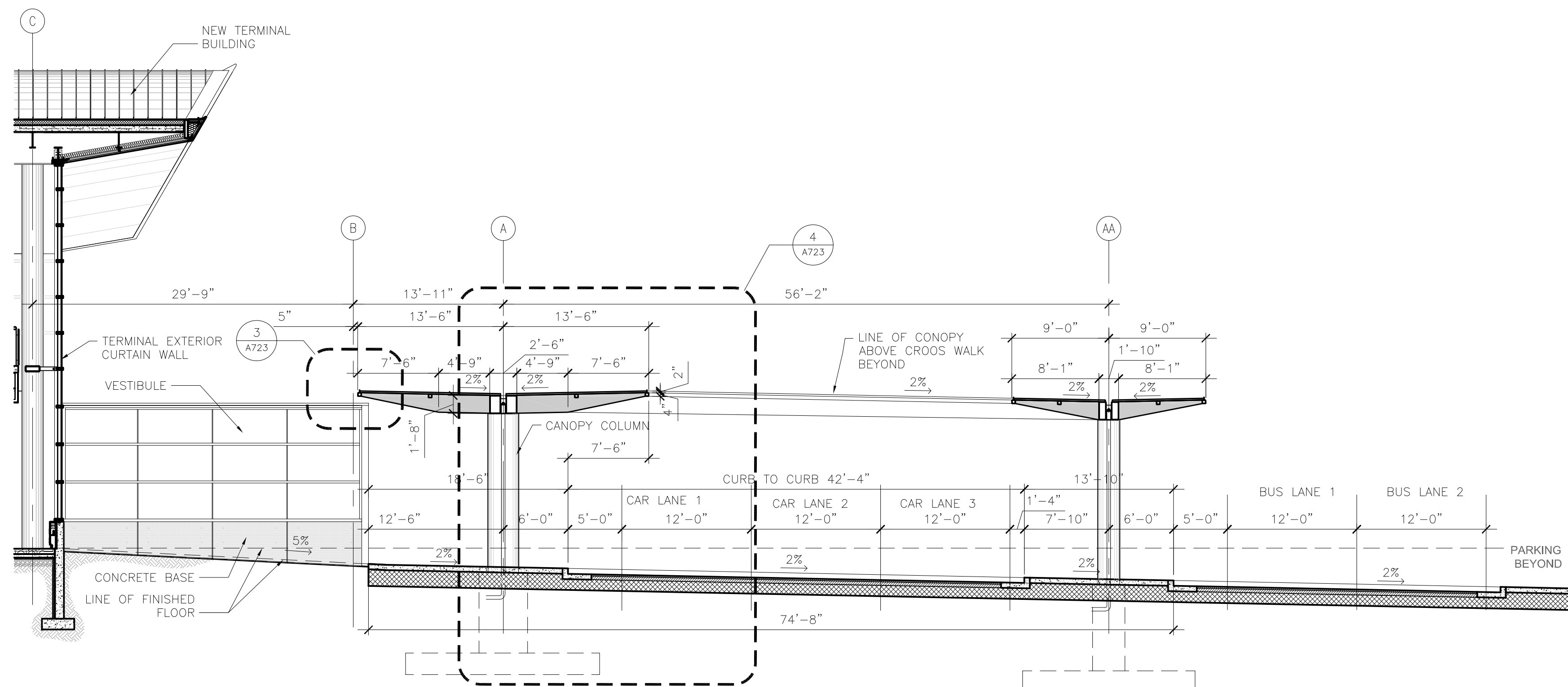
5 PARTIAL REFLECTED CEILING PLAN
1/8" = 1'-0"



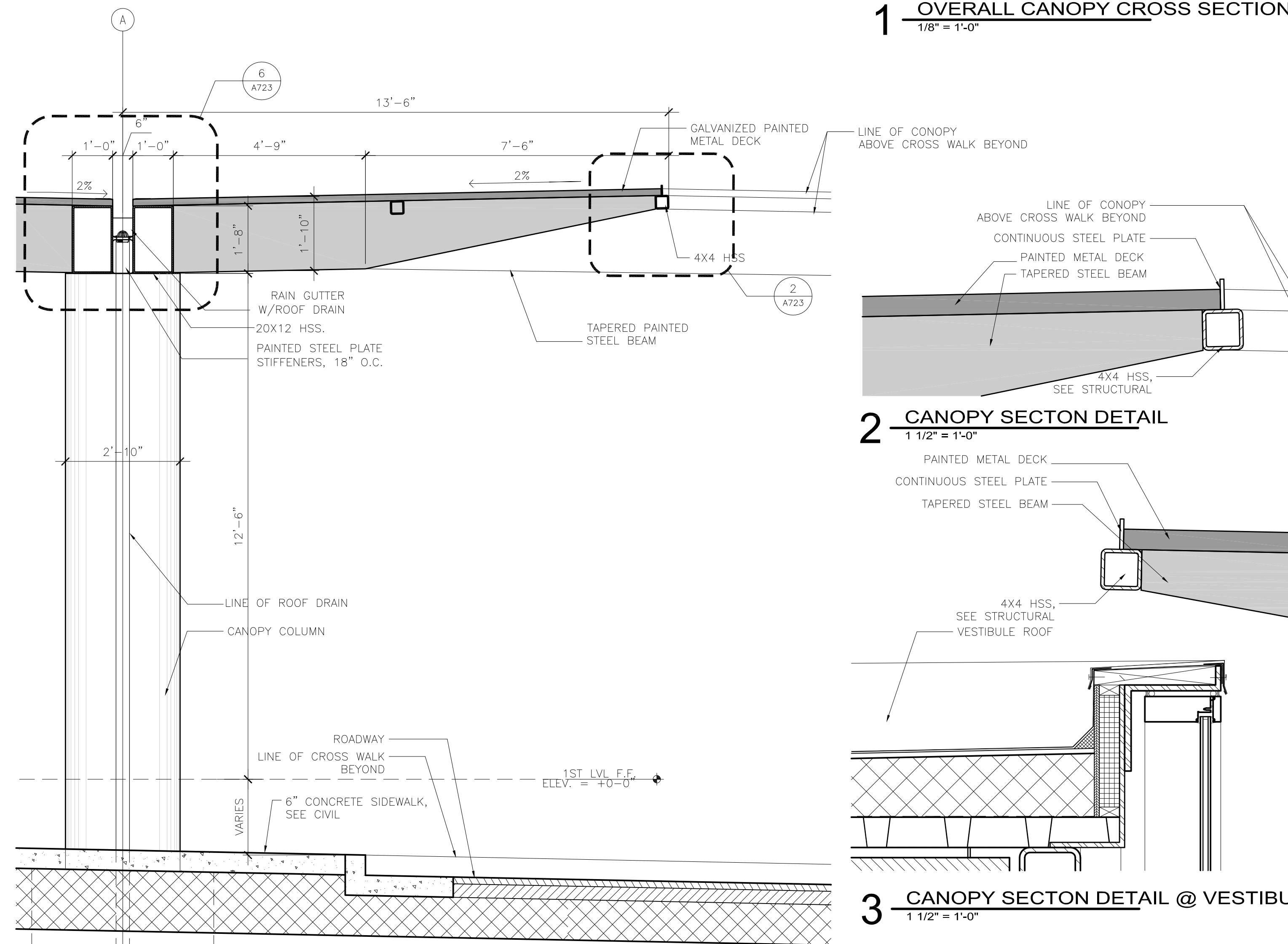
6 CANOPY SECTION DETAIL
1 1/2" = 1'-0"



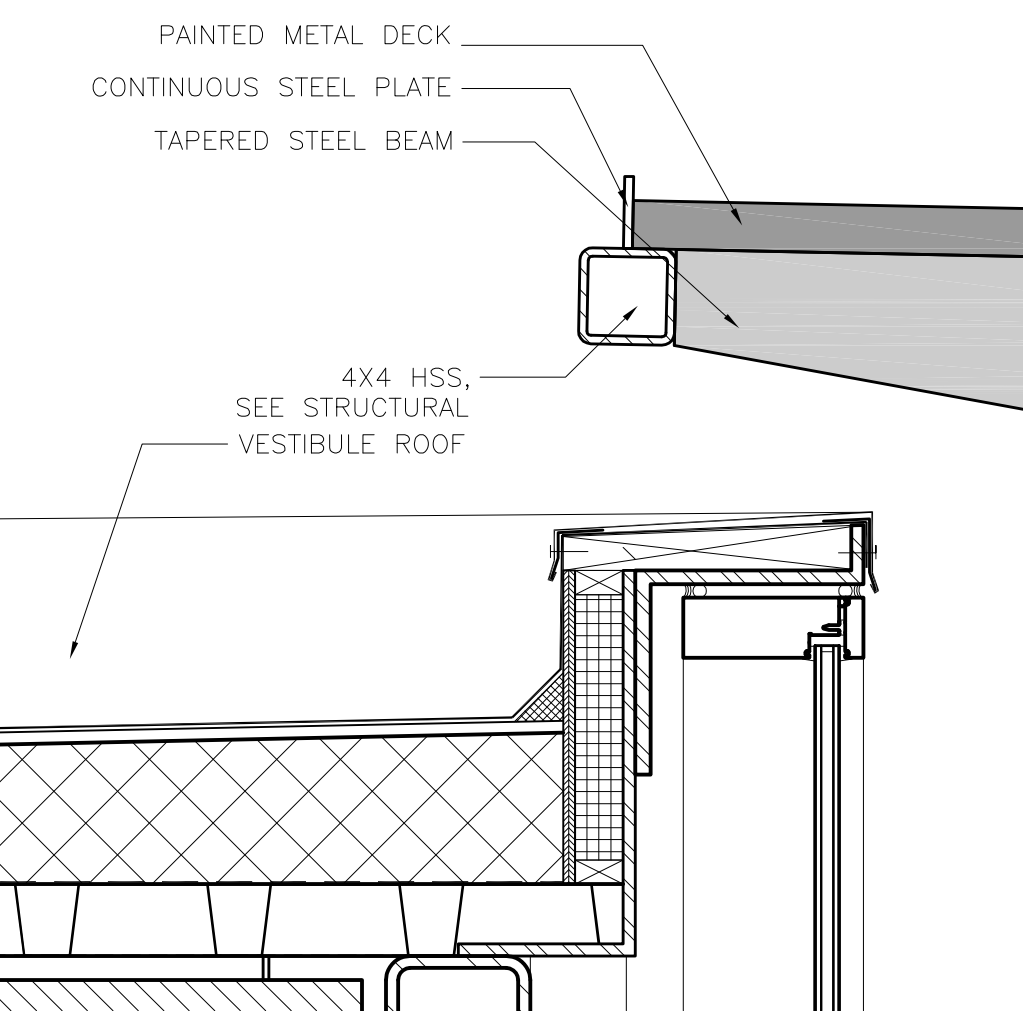
7 CANOPY ISOMETRIC LOOKING UP
N.T.S.



1 OVERALL CANOPY CROSS SECTION
1/8" = 1'-0"



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



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

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

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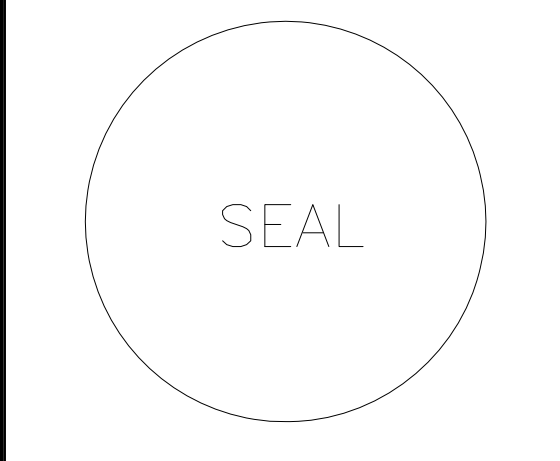
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Structural Engineers:
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ME/P/FP Engineers:
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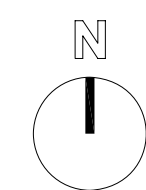
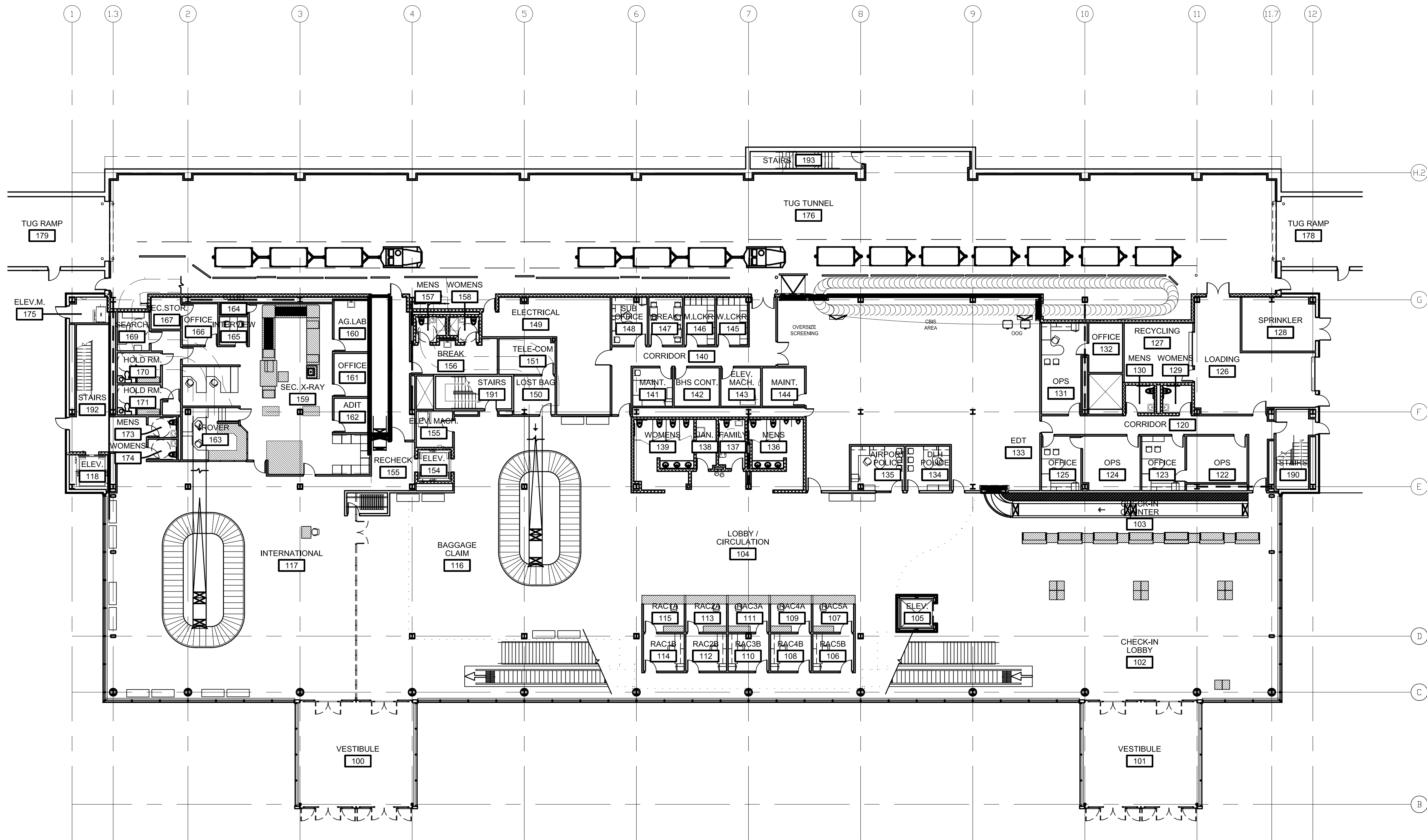
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REVIEWED BY: XX
DRAWN BY: MK
DESIGNED BY: TC

AEP PROJECT NUMBER
213-1882-091
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SHEET TITLE
**EXTERIOR SYSTEM
SHEET- CANOPY**

SHEET NUMBER
A723

**60% NOT FOR
CONSTRUCTION**



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



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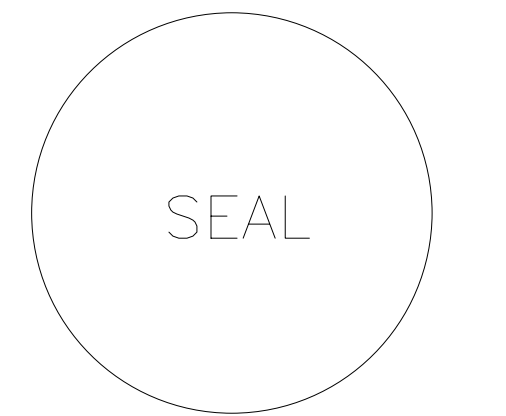
Interior Architects:
SJA ARCHITECTS
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TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:
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TEL: (218) 722-1056 / FAX: (218) 722-9306

ME/P/FP Engineers:
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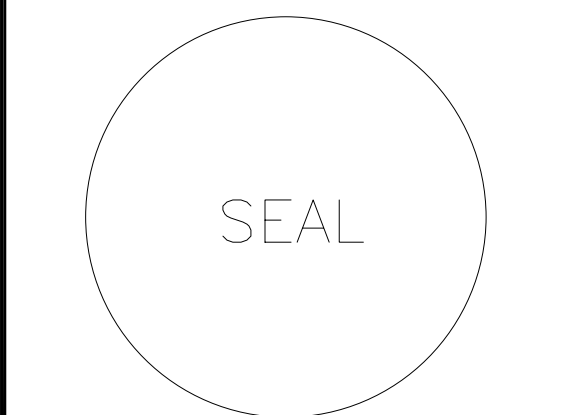
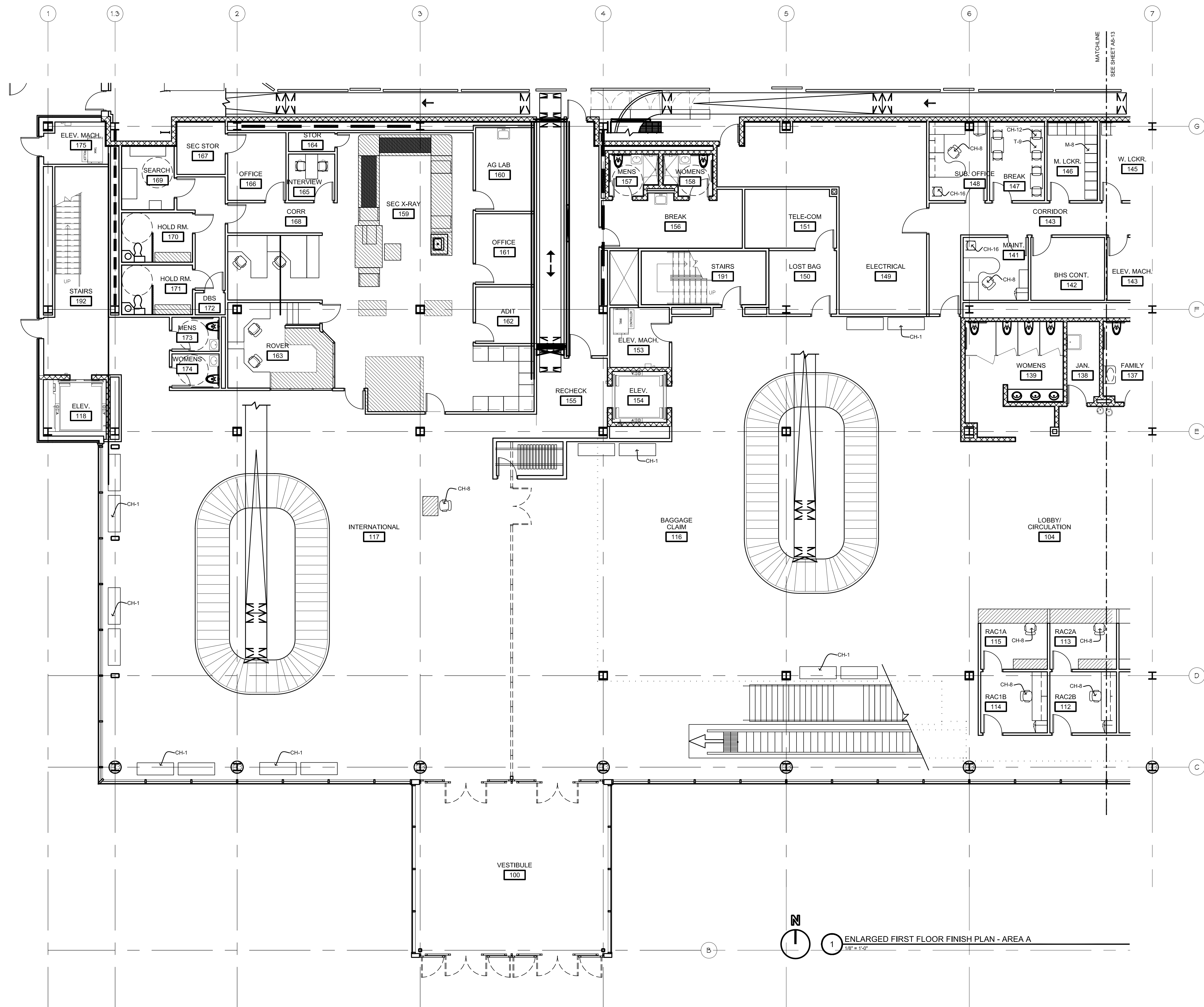
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REVIEWED BY: XXX
DRAWN BY: XXX
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SHEET TITLE
**FIRST FLOOR
FURNITURE
PLAN**

SHEET NUMBER
A8-11

60% NOT FOR
CONSTRUCTION



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NO.	DESCRIPTION	DATE

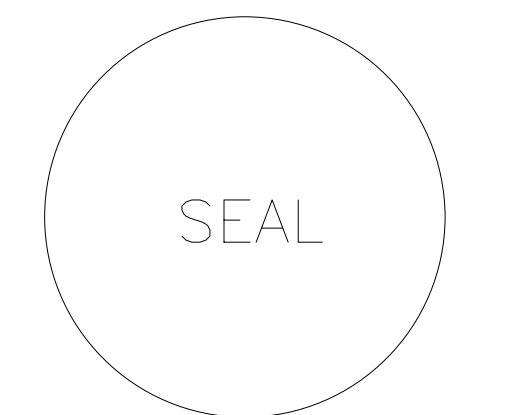
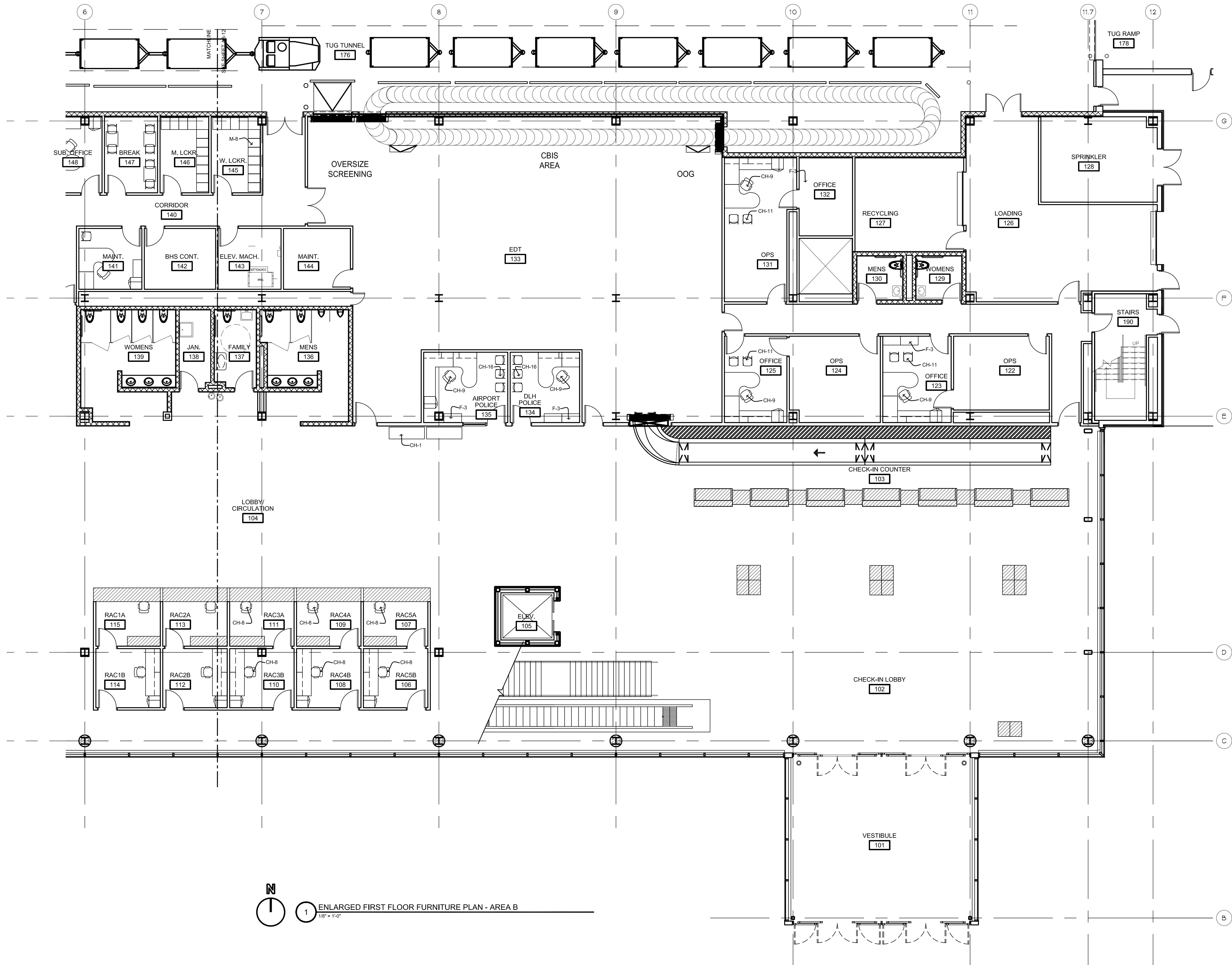
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SHEET TITLE
**FIRST FLOOR
FURNITURE
PLAN AREA A**

SHEET NUMBER
A8-12

60% NOT FOR
CONSTRUCTION



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NO.	DESCRIPTION	DATE

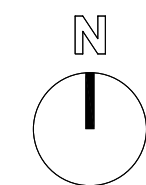
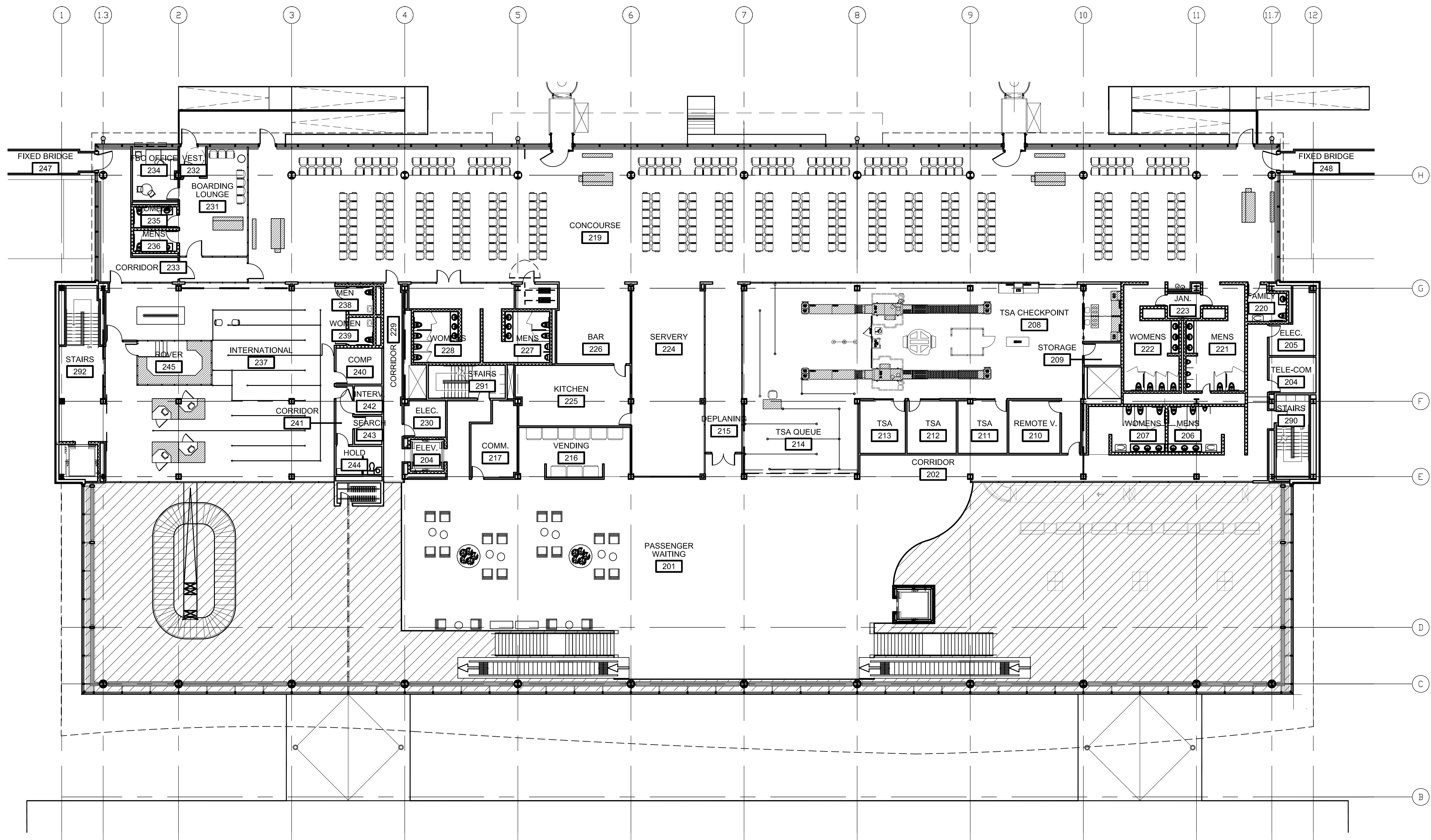
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SHEET TITLE
**FIRST FLOOR
FURNITURE
PLAN AREA B**

SHEET NUMBER
A8-13

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



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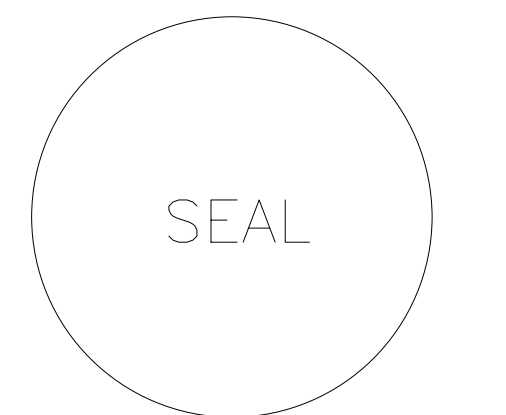
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11 E Superior Street Suite 340, Duluth MN 55802
TEL: (218) 724-8578 / FAX: (218) 724-8717

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

ME/P/FP Engineers:
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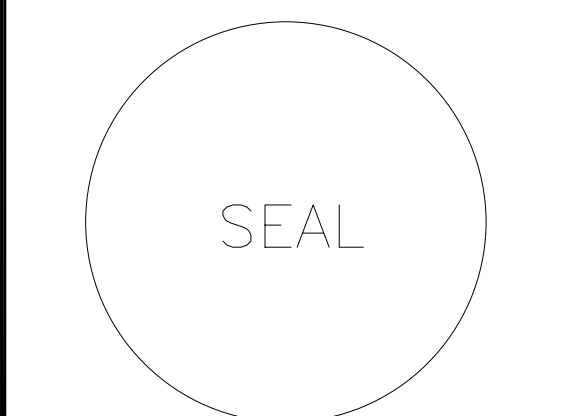
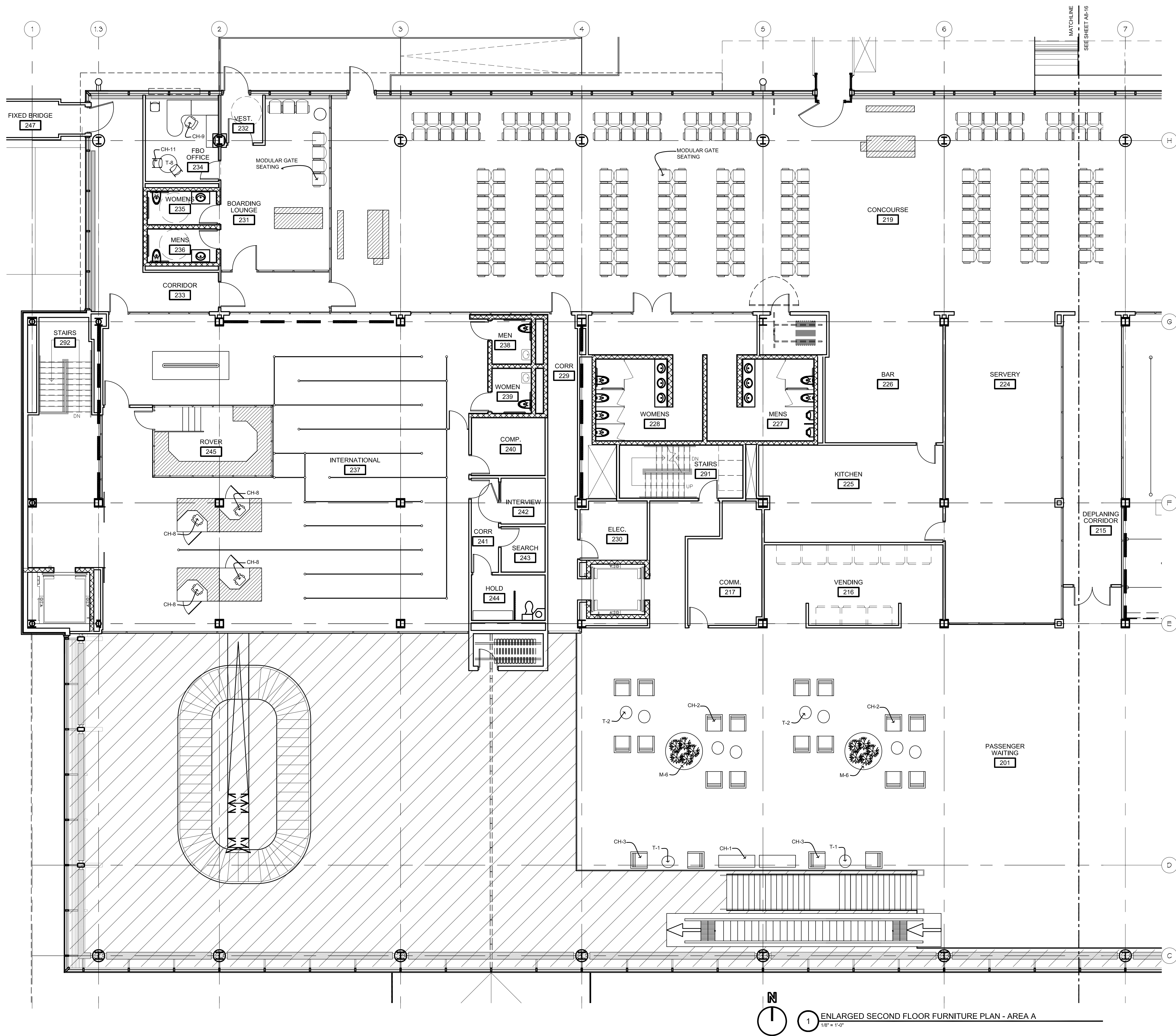
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SHEET TITLE
**SECOND FLOOR
FURNITURE
PLAN**

SHEET NUMBER
A8-14

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CONSTRUCTION



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NO.	DESCRIPTION	DATE

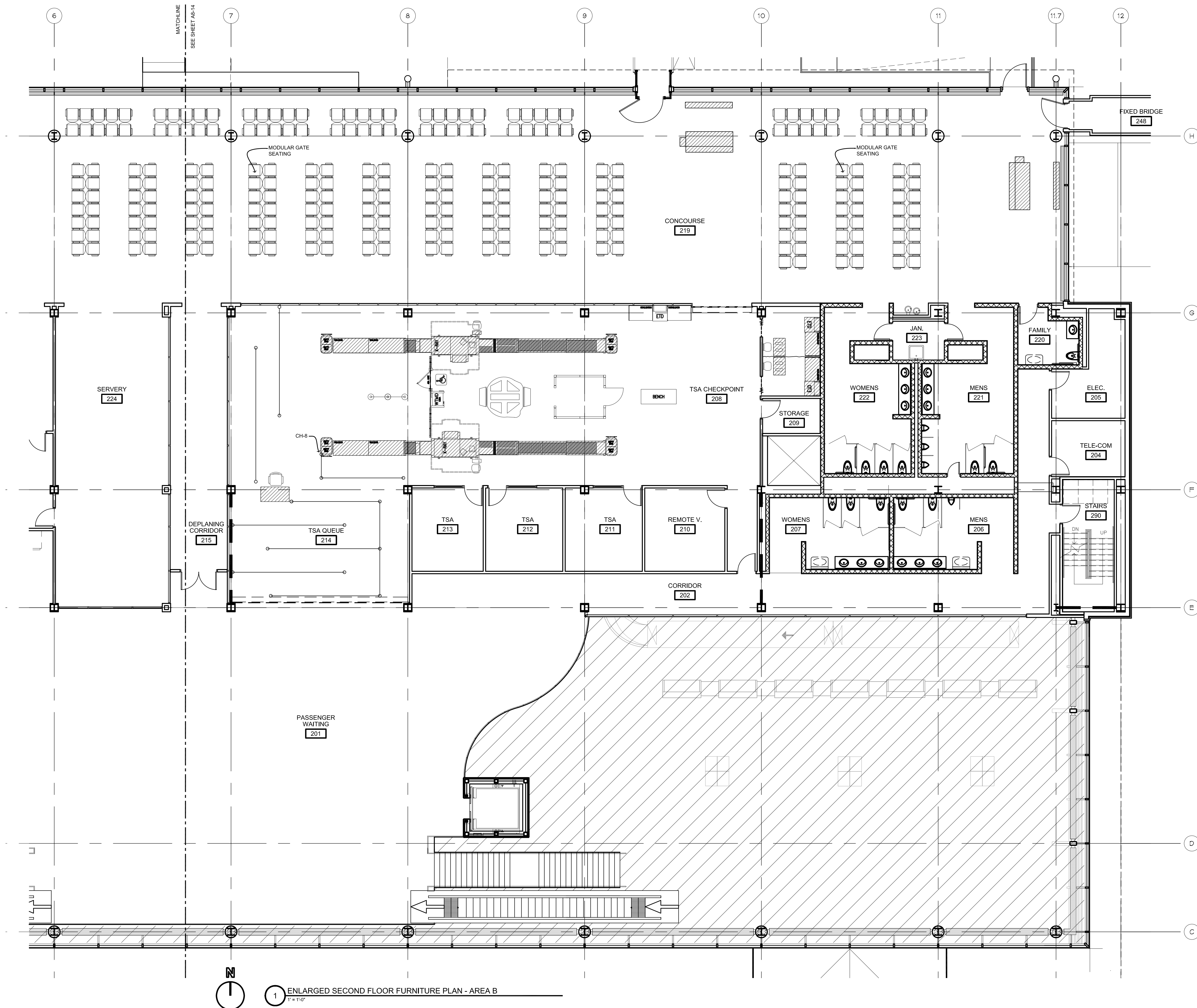
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SHEET TITLE
**SECOND FLOOR
FURNITURE
PLAN AREA A**

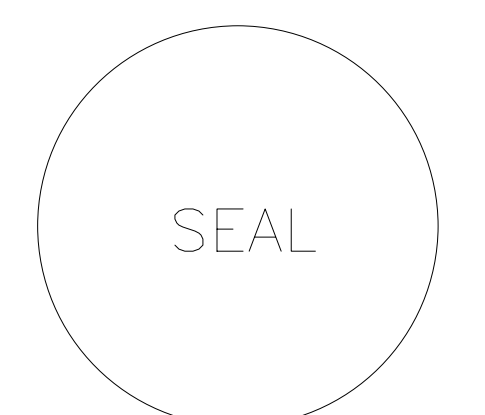
SHEET NUMBER
A8-15

60% NOT FOR
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1 ENLARGED SECOND FLOOR FURNITURE PLAN - AREA B
1" = 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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TEL: (218) 722-1056 / FAX: (218) 722-9306
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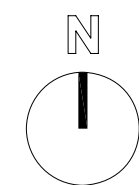
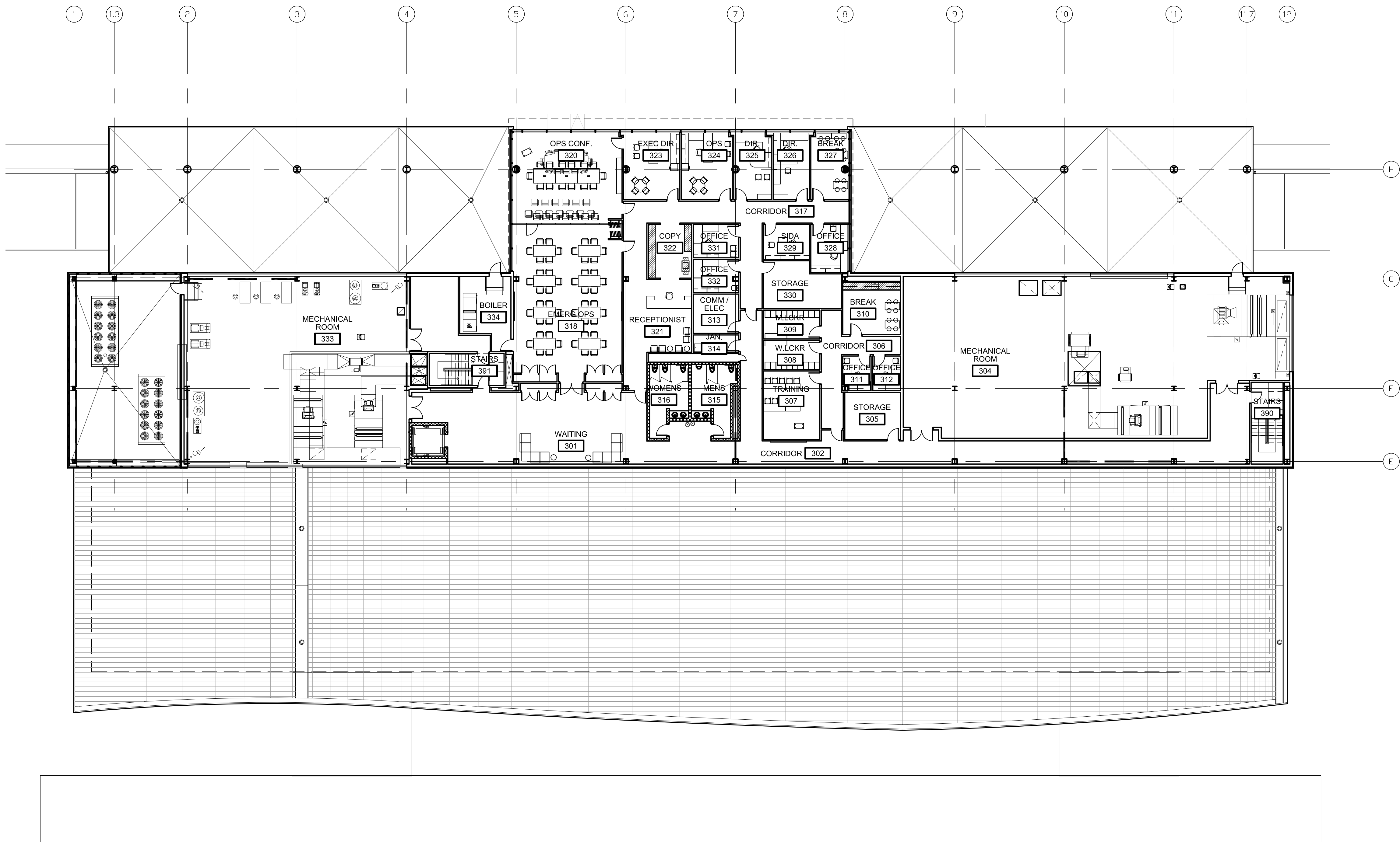
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SHEET TITLE
**SECOND FLOOR
FURNITURE
PLAN AREA B**

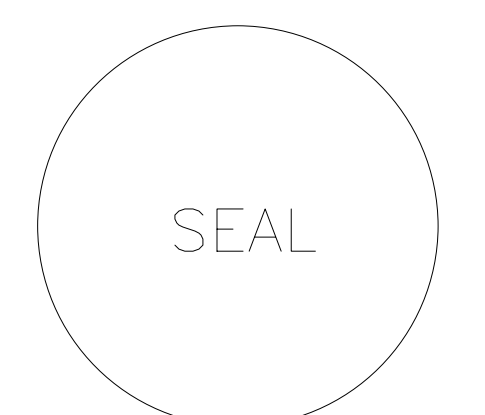
SHEET NUMBER
A8-16

60% NOT FOR
CONSTRUCTION



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

- CONSULTANTS**
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- Structural Engineers:
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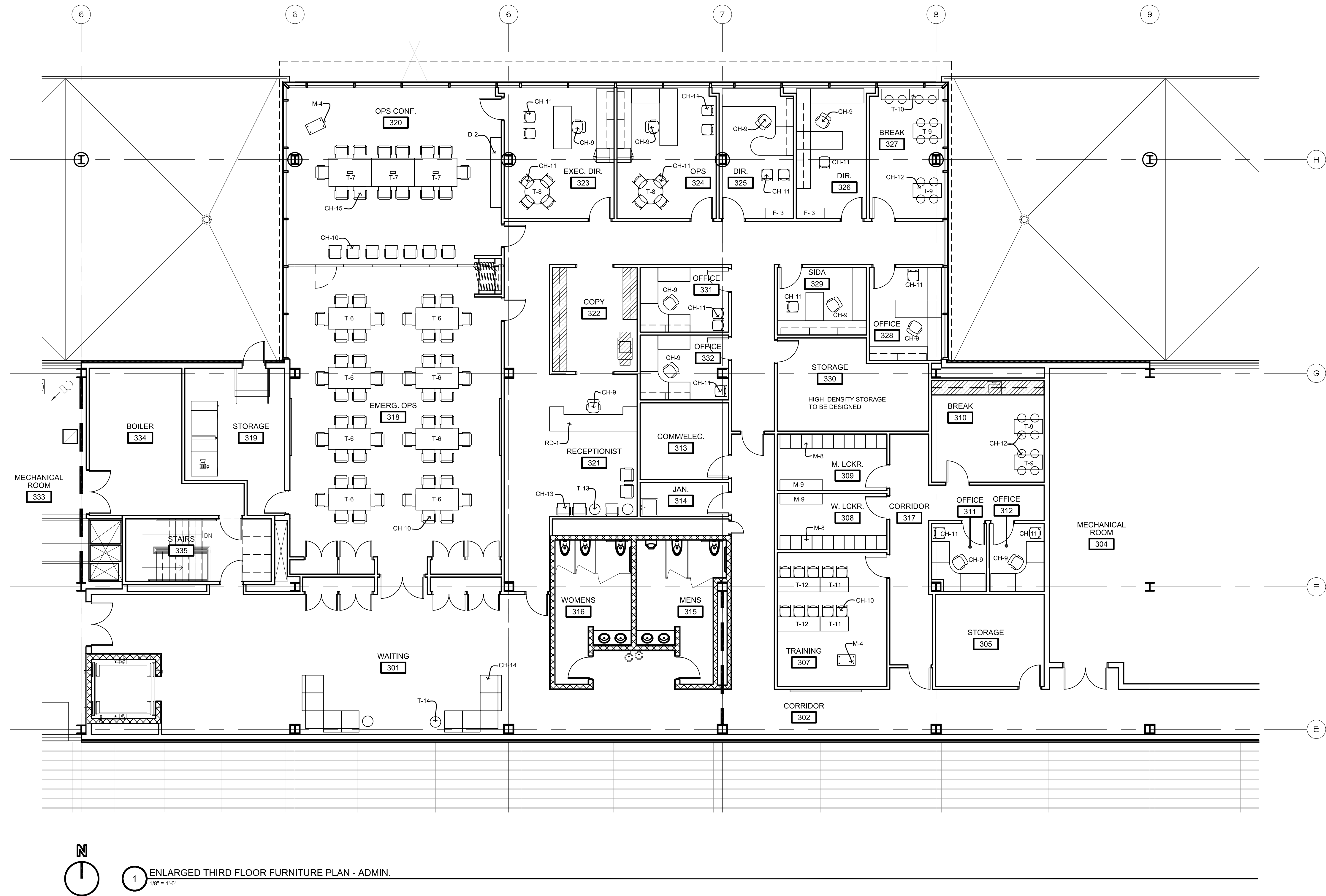
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SHEET TITLE
**THIRD FLOOR
FURNITURE
PLAN**

SHEET NUMBER
A8-17

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1 ENLARGED THIRD FLOOR FURNITURE PLAN - ADMIN.
1/8" = 1'-0"

CONSULTANTS

Interior Architects:
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Structural Engineers:
MBJ CONSULTING ENG.
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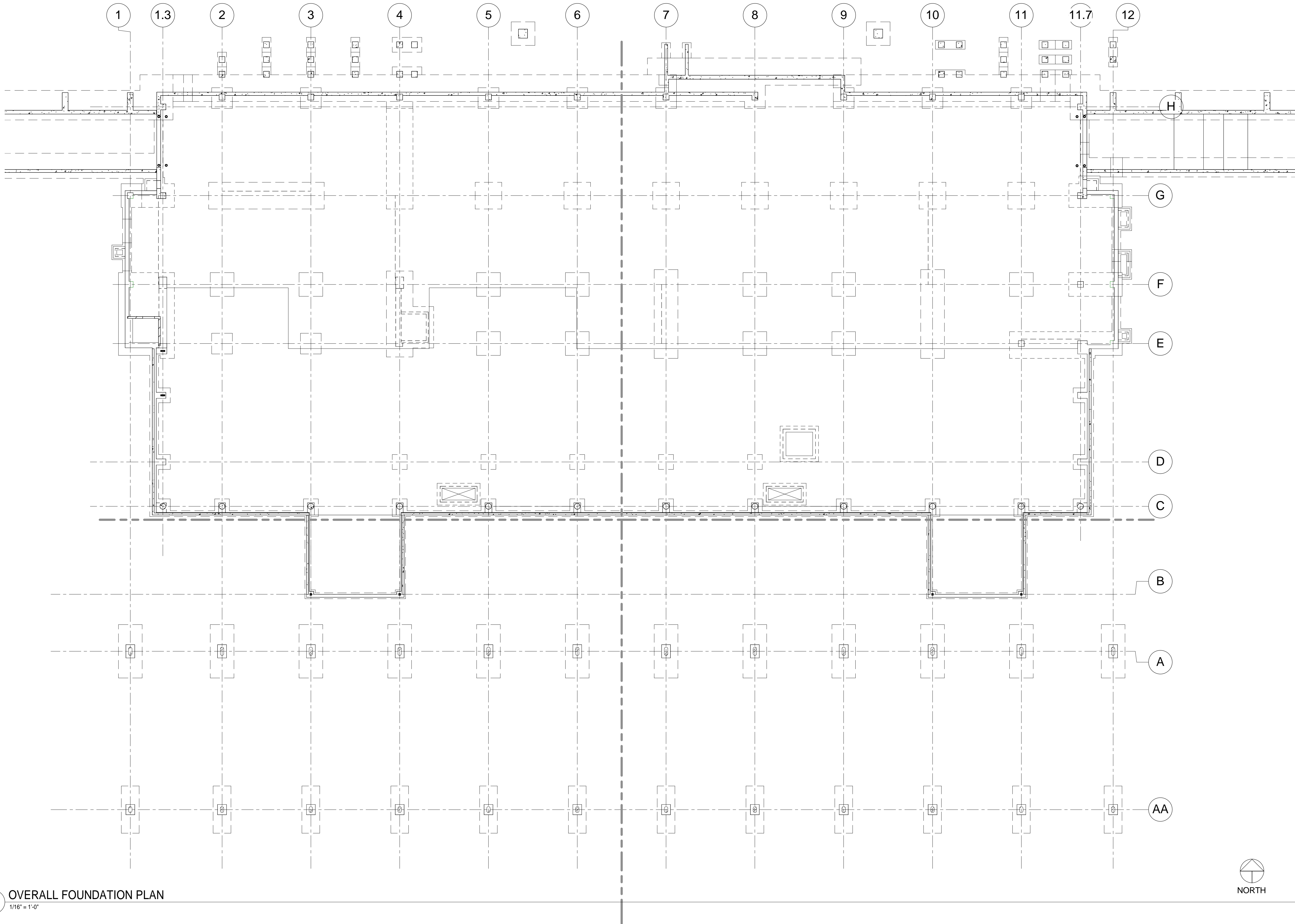
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SHEET TITLE
**THIRD FLOOR
FURNITURE
PLAN ADMIN.**

SHEET NUMBER
A8-18

60% NOT FOR
CONSTRUCTION



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



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REVIEWED BY:
DRAWN BY: SJL
DESIGNED BY: CWB

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SHEET TITLE
**OVERALL
FIRST LEVEL
FLOOR PLAN**

SHEET NUMBER
S101

60% NOT FOR
CONSTRUCTION


$$1/16'' = 1'-0''$$




CONSULTANTS

Interior Architects:
SJA ARCHITECTS
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Structural Engineers:
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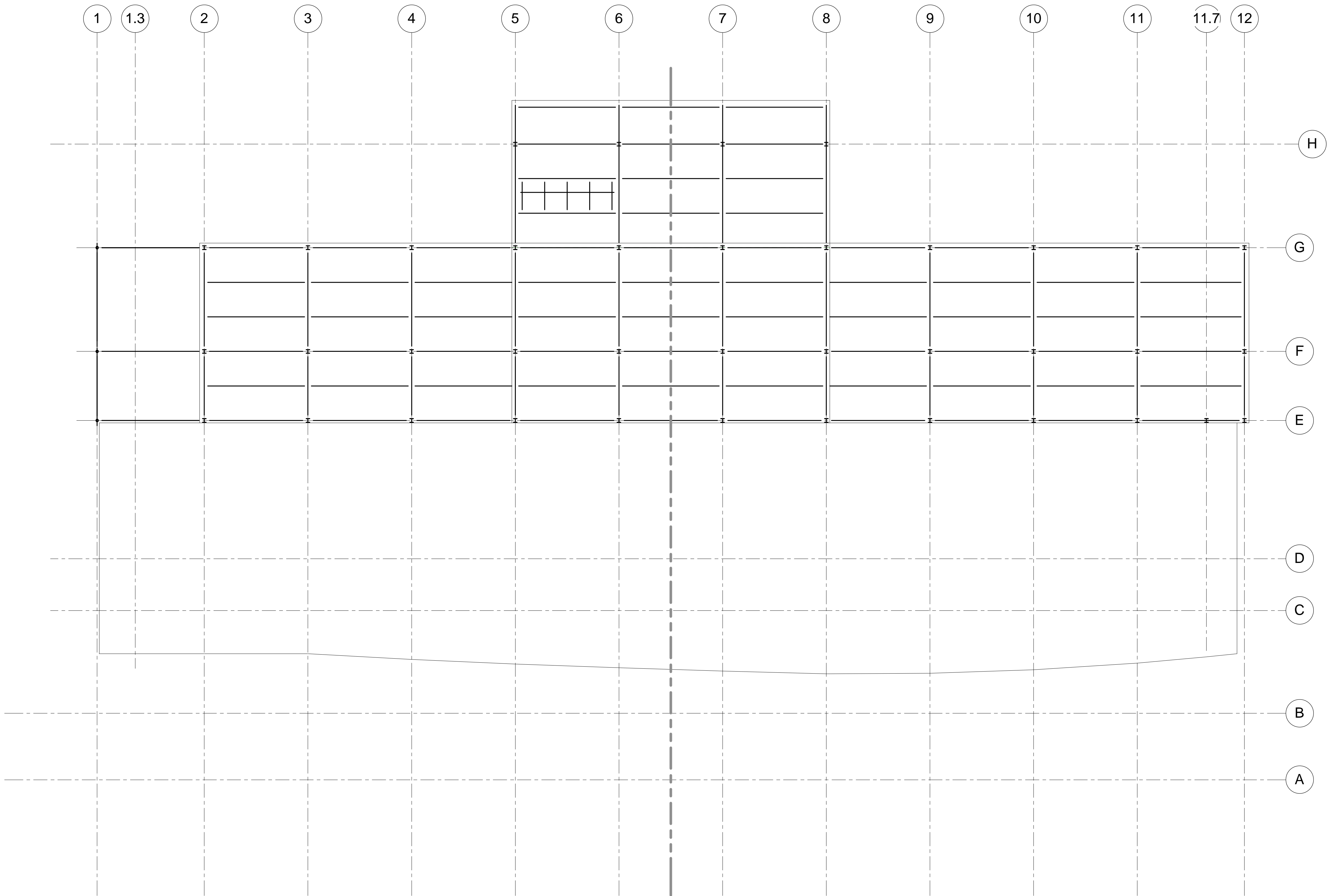
SHEET TITLE

**OVERALL
THIRD LEVEL
FLOOR PLAN**

SHEET NUMBER
S103

60% NOT FOR CONSTRUCTION



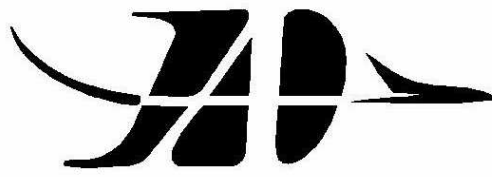


1 OVERALL ROOF PLAN
1/16" = 1'-0"



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Structural Engineers:

MBJ CONSULTING ENG.
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SHEET TITLE

OVERALL
ROOF LEVEL
PLAN

SHEET NUMBER

S104

60% NOT FOR
CONSTRUCTION

CONSULTANTS

Interior Architects:

SJA ARCHITECTS

for Street Suite 340 Duluth MN 55802
 ☎ 704.2572 / FAX: (410) 704.2717

Structural Engineers

CONSULTING ENG.

ue South, Suite 300, Duluth MN 558

M/E/P/FP Engineers

COSENTINI

er Drive, Suite 103, Chicago IL 6060

Handling Systems Consultants:

P ASSOCIATES INC.

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Landscape Consultant

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DESIGNED BY: CWE

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SHEET TITLE

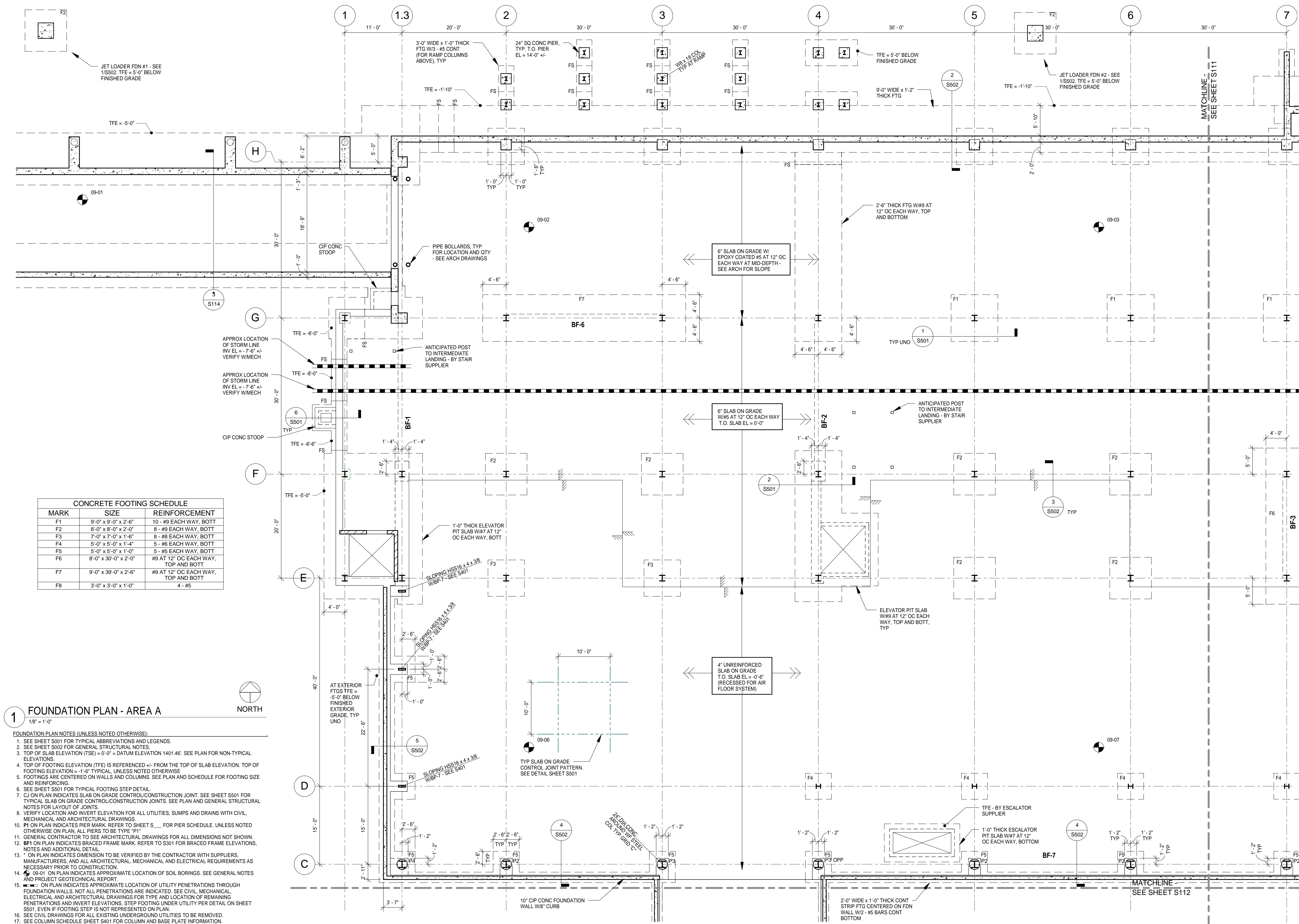
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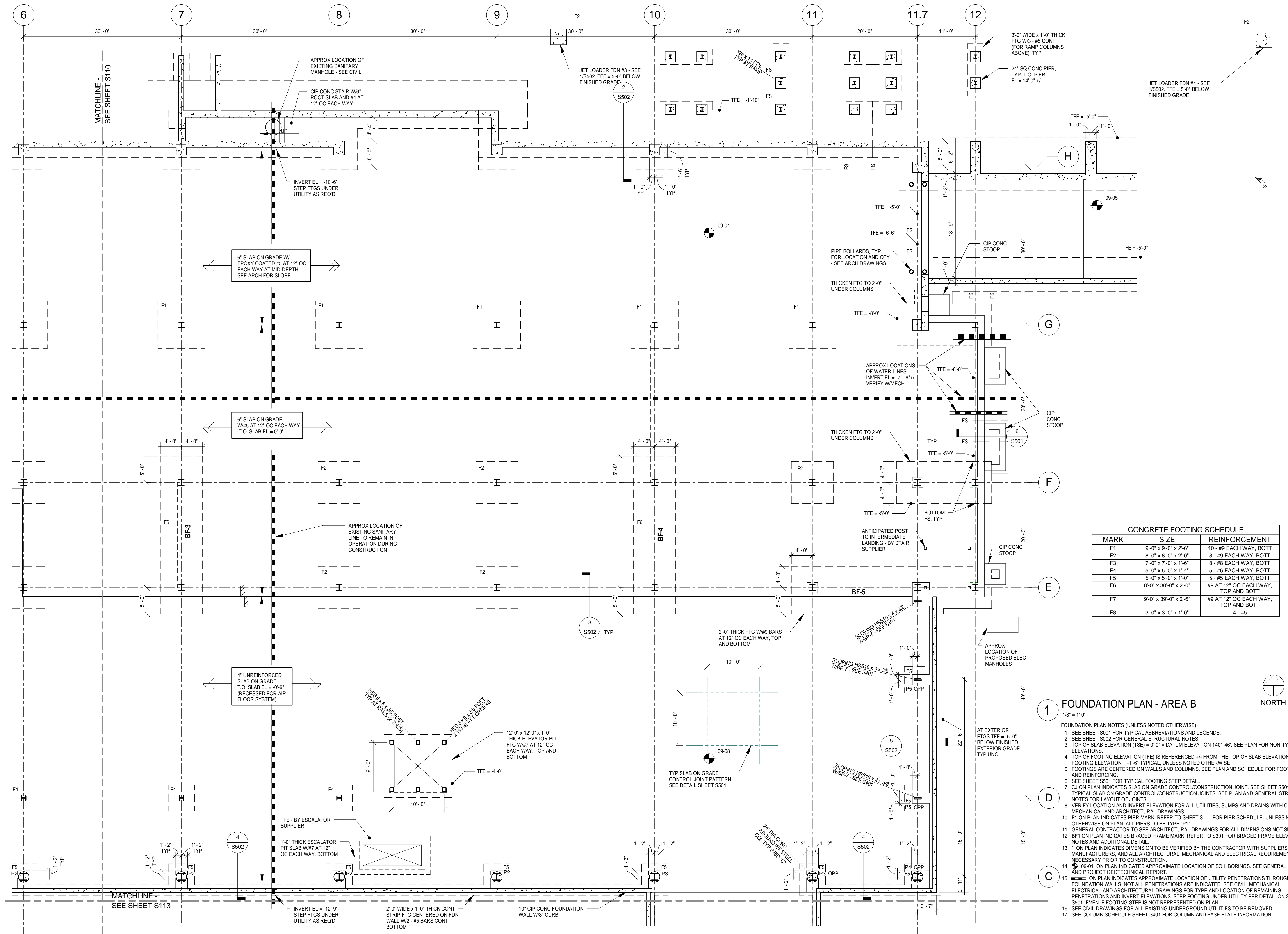
FOUNDATION PLAN - AREA A

SHEET NUMBER

S110

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CONSULTANTS

Interior Architects:
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Structural Engineers:
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TEL: (218) 591-5079

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NO.	DESCRIPTION	DATE

DATE ISSUED: 02-15-10
REVIEWED BY:
DRAWN BY: SJL
DESIGNED BY: CWB
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213-1882-091
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SHEET TITLE
**FOUNDATION
PLAN - AREA B**

SHEET NUMBER
S111

**60% NOT FOR
CONSTRUCTION**



CONSULTANTS

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Structural Engineers:
MBJ CONSULTING ENG.
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M/E/P/FP Engineers:
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1 East Wacker Drive, Suite 103, Chicago IL 60601
TEL: (312) 670-1800 / FAX: (312) 670-1801

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

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

[illegible]

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DESIGNED BY: CWB

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SHEET TITLE

**CANOPY
FOUNDATION
PLAN - AREA A**

SHEET NUMBER

S112

**60% NOT FOR
CONSTRUCTION**





NEW TERMINAL DESIGN

CONSULTANTS

Interior Architects:

SJA ARCHITECTS
Superior Street Suite 340 Duluth MN 55802
(218) 724-8578 / FAX: (218) 724-8717

Structural Engineers:

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 L: (218) 722-1056 / FAX: (218) 722-9306

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

Landscape Consultants:

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432 East First Street, Duluth MN 55812
TEL: (218) 591-5079



1 CANOPY FOUNDATION PLAN - AREA B
1/8" = 1'-0"

REVISIONS

[illegible]

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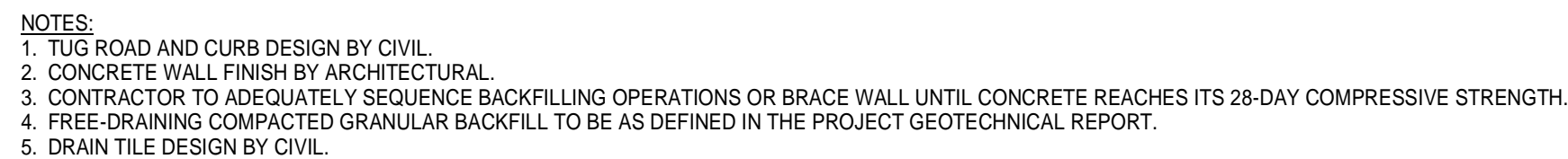
SHEET TITLE

CANOPY FOUNDATION PLAN - AREA B

SHEET NUMBER

S113

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3 SECTION NEAR TERMINAL (LOOKING WEST)
1/4" = 1'-0"



4 SECTION HALFWAY DOWN TUG ROAD (LOOKING WEST)
1/4" = 1'-0"



5 SECTION NEAR END (LOOKING WEST)
1/4" = 1'-0"

SHEET TITLE

0114

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CONSULTANTS

Interior Architects:
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Baggage Handling Systems Consultants:
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TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscape Consultants:
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TEL: (218) 591-5079

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SHEET TITLE

**CANOPY ROOF
FRAMING PLAN
- AREA A**

SHEET NUMBER
S117

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CONSULTANTS

Interior Architects:
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TEL: (218) 591-5079

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SHEET TITLE

**CANOPY ROOF
FRAMING PLAN
- AREA B**

SHEET NUMBER
S118

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CONSULTANTS

Interior Architects:
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P ASSOCIATES INC.
Office Park, Suite 103, Danbury, CT 06810

(3) 792-3000 / FAX: (203) 792-4900

Landscape Consultants:
APPOLD DESIGN



NOTES:
1. TOP OF CHILLER SUPPORT BEAMS TO BE DETERMINED IN FIELD.

1. TOP OF SLAB ELEVATION = $33' - 7 \frac{1}{2}"$. UNLESS NOTED OTHERWISE, REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATION.

2. TOP OF BEAM ELEVATION = $33' - 0"$ TYPICAL, UNLESS NOTED OTHERWISE. TOP OF BEAM ELEVATIONS ARE REFERENCED (+ OR -) FROM ELEVATION 33' - 0".

3. REBAR, ARCHITECTURAL DRAWINGS, AND ALL DIMENSIONS, ELEVATIONS, ANGLES AND LOCATION OF WORK POINTS. SEE SHEET S001 FOR TYPICAL ABBREVIATIONS AND S002 AND S003 FOR GENERAL STRUCTURAL NOTES.

4. BFI ON PLAN INDICATES BRACED FRAME MARK. REFER TO S301 FOR BRACED FRAME ELEVATIONS, NOTES AND ADDITIONAL DETAIL.

5. S1 ON PLAN INDICATES SLAB ON METAL DECK MARK. D1 ON PLAN INDICATES ROOF DECK MARK. SEE SCHEDULE S001 FOR ADDITIONAL DETAILS.

6. DO NOT CUT CONTROL JOINTS IN SLABS ON METAL DECK.

7. VERIFY EXIST 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. ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

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 11S701, 12S701 AND 12I702 FOR PLACEMENT REQUIREMENTS ON BEAMS AND GIRDERS.

10. ALL DIMENSIONS INDICATED MUST BE VERIFIED BY THE CONTRACTOR WITH SUPPLIERS, MANUFACTURERS, AND ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.

[illegible]

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SHEET TITLE

**THIRD LEVEL
FRAMING PLAN
- AREA A**

SHEET NUMBER
S120

**60% NOT FOR
CONSTRUCTION**



CONSULTANTS

Interior Architects:
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 101 East Ridge Office Park, Suite 103, Danbury CT 06810
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Landscape Consultants:
APPOLD DESIGN
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DESIGNED BY:	CWB

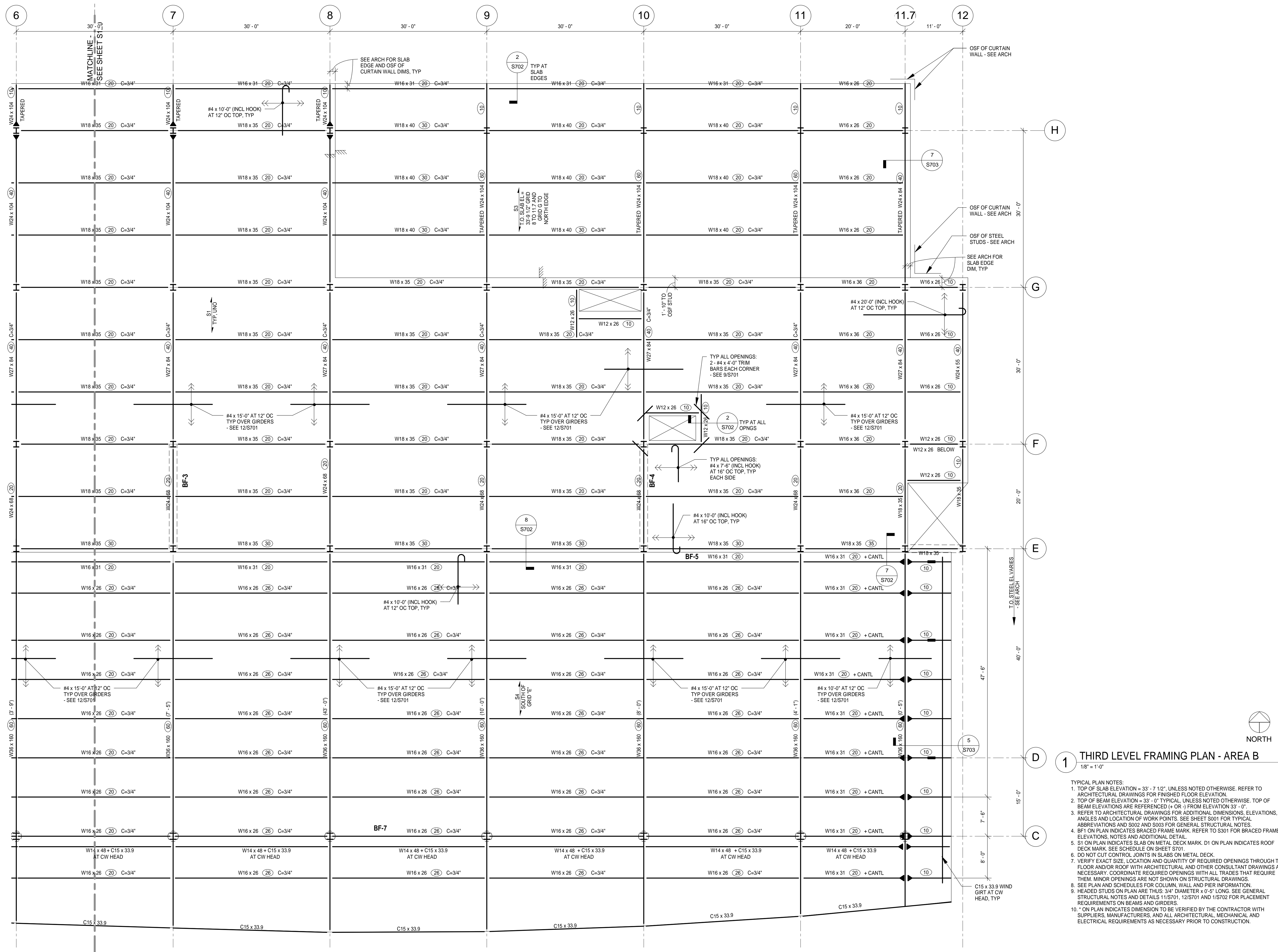
AEP PROJECT NUMBER
213-1882-091

SHEET TITLE
**THIRD LEVEL
FRAMING PLAN
- AREA B**

SHEET NUMBER

S121

**60% NOT FOR
CONSTRUCTION**





NEW TERMINAL DESIGN

CONSULTANTS

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REVISIONS

[illegible]

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DRAWN BY: SJL

DESIGNED BY: CWE

AEP PROJECT NUMBER

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SHEET TITLE

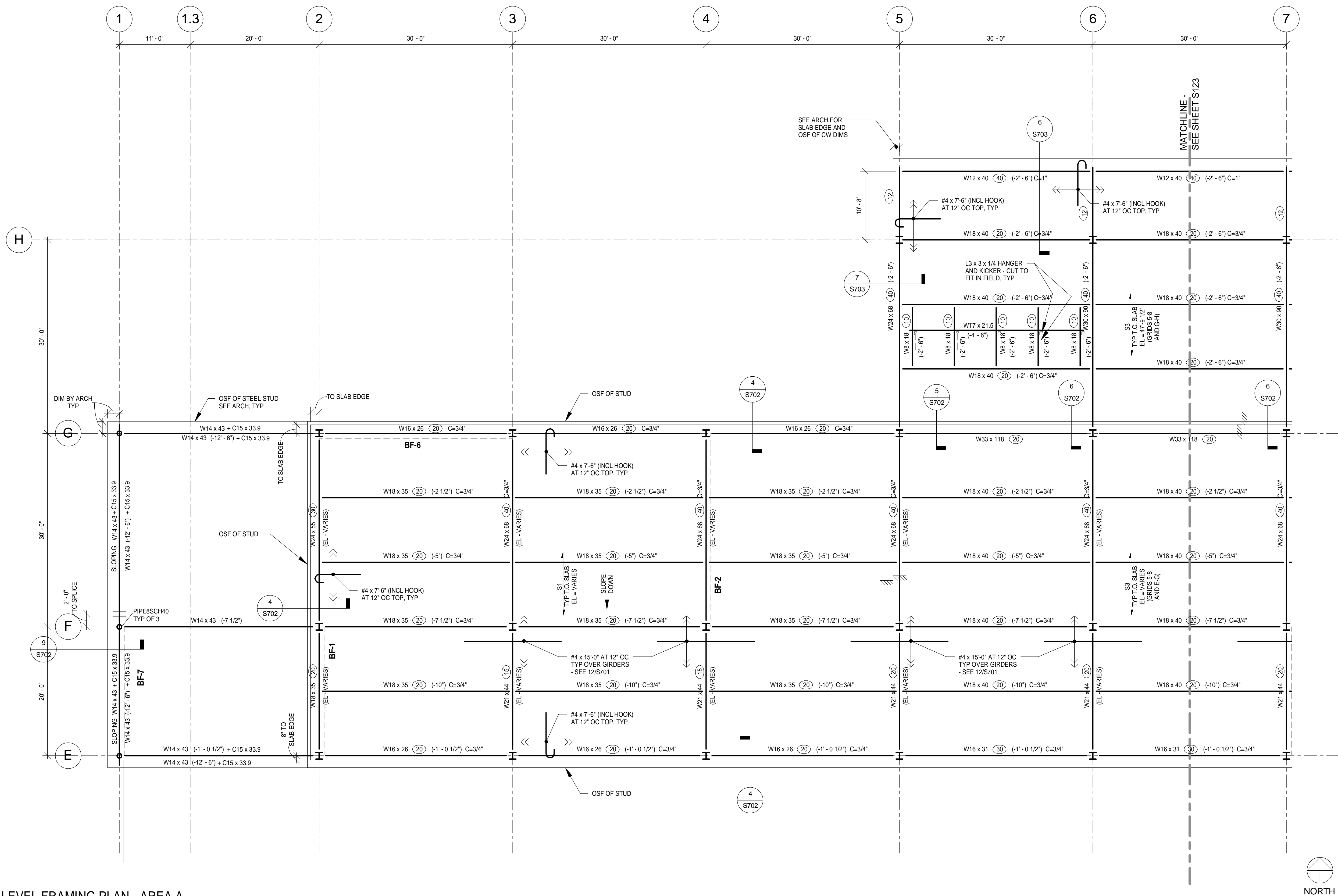
SHEET TITLE

**ROOF LEVEL
FRAMING PLAN
- AREA A**

SHEET NUMBER

S122

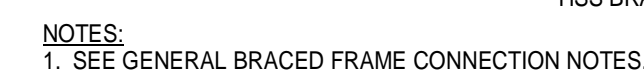
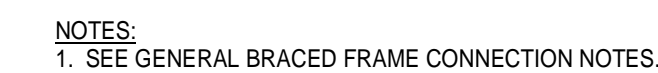
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1 ROOF LEVEL FRAMING PLAN - AREA A

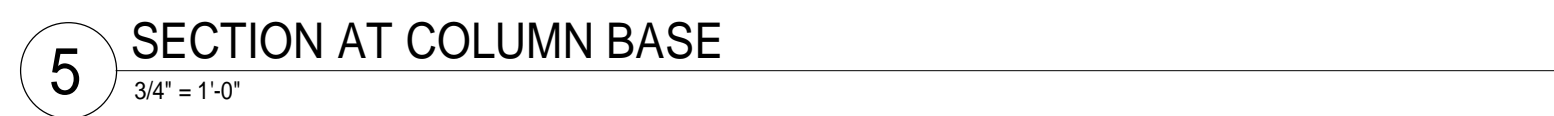
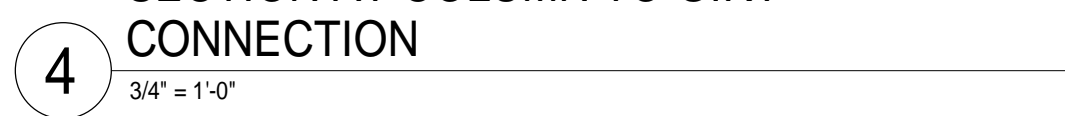
$$1/8'' = 1'-0''$$

1. **TYPICAL PLAN NOTES**
2. **TOP OF STEEL BEAM ELEVATION IS REFERENCED (+ OR -) FROM ELEVATION 49' - 6".**
3. **TOP OF STEEL BEAM = 49' - 6". UNLESS NOTED OTHERWISE.**
4. **TOP OF SLAB ELEVATION IS 49' - 0". UNLESS NOTED OTHERWISE.**
5. **REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS, ANGLES AND LOCATION OF WORK POINTS. SEE SHEET S301 FOR TYPICAL ABBREVIATIONS * AND S502 AND S303 FOR GENERAL STRUCTURAL NOTES.**
6. **REF TO ON PLAN INDICATES BRACE FRAMES. REFER TO S301 FOR BRACED FRAME ELEVATION. SEE NOTES AND ADDITIONAL DETAIL.**
7. **SEE S301 FOR BRACED FRAME DETAIL.**
8. **S1 ON PLAN INDICATES SLAB ON METAL DECK MARK. D1 ON PLAN INDICATES ROOF DECK MARK. SEE SCHEDULE ON SHEET S701.**
9. **DO NOT CUT CONTROL JOINTS IN SLABS ON METAL DECK.**
10. **VERIFY EXACT SIZE, LOCATION AND NUMBER 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.**
11. **SEE S502 AND SCHEDULES FOR COLUMN, WALL AND RER INFORMATION.**
12. **HEADED BARS ON PLAN SHALL BE 1/2" DIAMETER @ 4" ON CENTER.**
13. **SEE GENERAL STRUCTURAL NOTES AND DETAILS 11/5701, 12/5701 AND 1/5702 FOR PLACEMENT REQUIREMENTS ON BEAMS AND GIRDERS.**
14. **" * ON PLAN INDICATES DIMENSION TO BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER OF THE PRODUCT FOR STRUCTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.**



GENERAL BRACED FRAME CONNECTION NOTES:

1. ALL PLATE MATERIAL USED IN CONNECTIONS: ASTM A572-50.
2. ALL ANGLE MATERIAL USED IN CONNECTIONS: ASTM A-36.
3. ALL BOLTS 3/4" DIAMETER A325N OR 1" A488N BOLTS UNLESS NOTED OTHERWISE.
4. ALL BOLTS ARE IN STANDARD HOLES, UNLESS NOTED OTHERWISE.
5. 1 1/2" MINIMUM EDGE DISTANCE.
6. "X" MAXIMUM EDGE DISTANCE.
7. "P" MINIMUM PITCH.
8. E70XX WELDING ELECTRODES.
9. CONNECTIONS SHOWN ARE CONCEPTUAL DETAILS ONLY. WELD LENGTHS, NUMBER OR BOLTS AND PLATE SIZES WILL VARY AS REQUIRED FOR DESIGN FORCES INDICATED.
10. PROVIDE A SLOTTED EJECTION AID FOR BRACE MEMBERS.
11. DO NOT WELD BRACE TO UPPER GUSSET UNTIL AFTER COMPOSITE CONCRETE FLOORS HAVE BEEN POURED.
12. "P" INDICATES MEMBER AXIAL FORCE. "A" INDICATES AXIAL FORCE TO BE TRANSFERRED THROUGH THE CONNECTION.
13. "T" INDICATES PLATE THICKNESS TO BE DETERMINED BY FABRICATOR.

[illegible]

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SHEET TITLE
ELEVATIONS

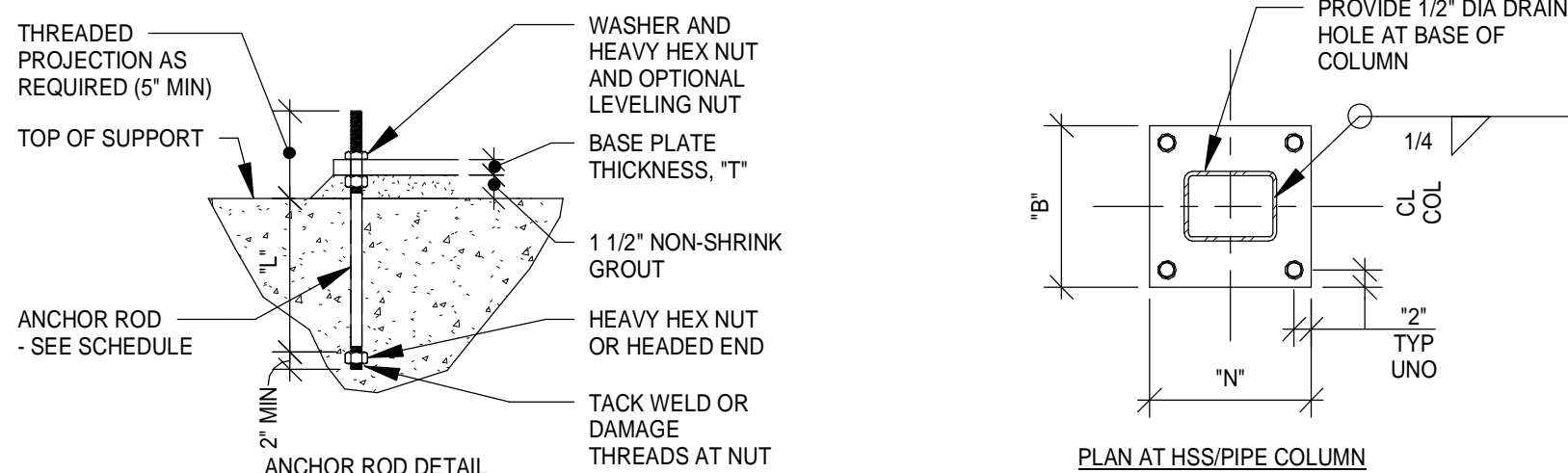
SHEET NUMBER
S302

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Column Locations	1ST LEVEL 0"	2ND LEVEL 16' - 4"	3RD LEVEL 33' - 0"	ROOF LEVEL 49' - 6"
B-3, B-4, B-10, B-11	BP-3 HSS6 x 6 x .38			
C-1.3	BP-4	W14 x 109		
C-2	BP-4	W14 x 109		
C-3	BP-4	W14 x 109		
C-4	BP-4	W14 x 109		
C-5	BP-4	W14 x 109		
C-6	BP-4	W14 x 109		
C-7	BP-4	W14 x 109		
C-8, C-9	BP-4	W14 x 109		
C-10	BP-4	W14 x 109		
C-11	BP-4	W14 x 109		
C-11.7	BP-4	W14 x 109		
D-4, D-5, D-6, D-7, D-8	BP-2 W10 x 49			
E-1	BP-1	W12 x 96	BP-5 PIPESCH40	
E-1.3	BP-1	W12 x 96		
E-2, E-3, E-5, E-6, E-8, E-9, E-10	BP-1	W12 x 96		
E-4	BP-1	W12 x 96		
E-7	BP-6	W12 x 96		
E-11	BP-6	W12 x 96		
E-11.7	BP-1	W12 x 96		
E-12	BP-1	W12 x 96		
F-1	BP-1	W12 x 79	BP-5 PIPESCH40	
F-1.3	BP-6	W12 x 79		
F-2, F-3, F-5, F-6, F-7, F-8, F-9, F-11	BP-1	W12 x 79		
F-4, F-10	BP-6	W12 x 79		
F-11.7	BP-1	W12 x 79		
F-12	BP-1	W12 x 79		
G-1	BP-1	W12 x 96	BP-5 PIPESCH40	
G-1.3, G-11.7		BP-1 W12 x 96		

Column Locations	1ST LEVEL	2ND LEVEL	3RD LEVEL	ROOF LEVEL
G-2	0"	16' - 4"	33' - 0"	49' - 6"
G-3, G-4, G-5, G-6, G-7, G-8, G-9, G-10, G-11	0"	16' - 4"	33' - 0"	49' - 6"
G-12	0"	16' - 4"	33' - 0"	49' - 6"
H-1.3, H-11.7	0"	16' - 4"	33' - 0"	49' - 6"
H-2, H-3, H-4, H-9, H-10, H-11	0"	16' - 4"	33' - 0"	49' - 6"
H-5	0"	16' - 4"	33' - 0"	49' - 6"
H-6, H-7	0"	16' - 4"	33' - 0"	49' - 6"
H-8	0"	16' - 4"	33' - 0"	49' - 6"

1. FOR BASE PLATE AND ANCHOR BOLT INFORMATION, SEE COLUMN BASE PLATE SCHEDULE THIS SHEET.
2. FOR BASE PLATES AT BRACED FRAME LOCATIONS, SEE SHEET S301 AND APPROPRIATE DETAILS.

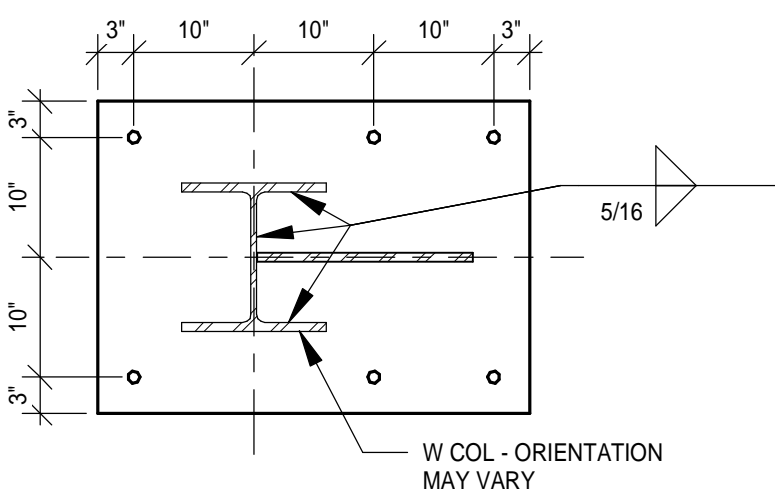
$$12' = 1'-0''$$


COLUMN BASE PLATE AND ANCHOR ROD SCHEDULE							
MARK	BASE PLATE SIZE (IN)			ANCHOR RODS			COMMENTS:
	"N"	"B"	"T"	NO.	DIA (IN)	EMBED "L"	
BP-1	20	20	1 3/4"	4	3/4"	0'-11"	EXP ANCHORS SEE 3/S401
BP-2	14	14	1"	4	3/4"	0'-11"	
BP-3	12	12	3/4"	4	3/4"	0'-11"	
BP-4	22	22	1 1/2"	4	3/4"	0'-11"	
BP-5	12	12	3/4"	4	1/2"	0'-5"	
BP-6	26	36	1 3/4"	6	1"	0'-18"	
BP-7	12	18	1 1/2"	4	3/4"	0'-11"	

1. SEE SCHEDULE FOR BASE PLATE AND ANCHOR ROD DIMENSIONS.
2. DIMENSION 'N' IS PARALLEL TO WF WEB OR LONGER HSS DIMENSION.
3. ANCHOR RODS SHALL BE ASTM F1554, GRADE 36.
4. BASE PLATES SHALL BE ASTM A36.
5. MILL COLUMN BASE AND/OR BASE PLATE AS NECESSARY FOR FULL CONTACT.
6. ANCHOR RODS SHALL SET BY TEMPLATE AND NOT BE SET INTO CONCRETE AFTER CONCRETE IS CAST
7. FOR BASE PLATES AT BRACED FRAMES, SEE SHEET S301 AND APPROPRIATE DETAILS.

2 COLUMN BASE PLATE AND ANCHOR ROD SCHEDULE

NO SCALE



3 BP-6
3/4" = 1'-0"

$$3/4'' = 1'-0''$$
[illegible]

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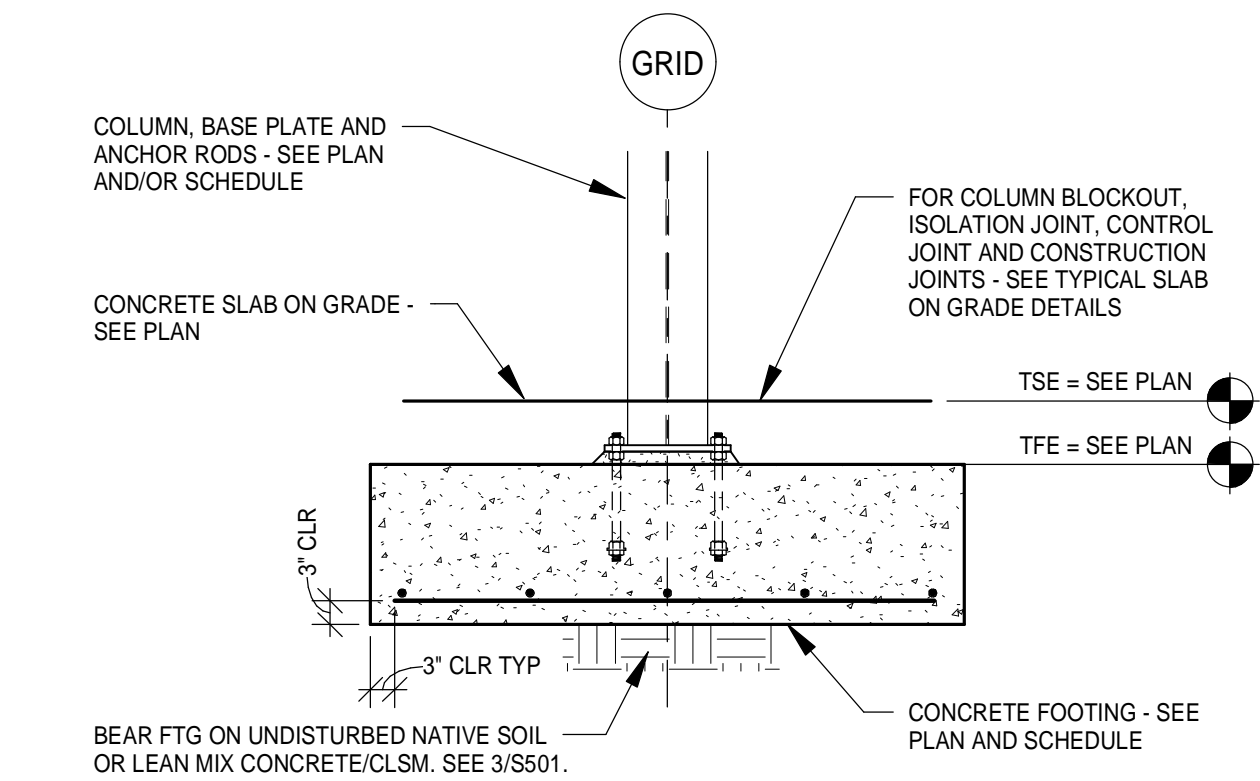
SHEET TITLE

COLUMN SCHEDULE AND DETAILS

SHEET NUMBER

S401

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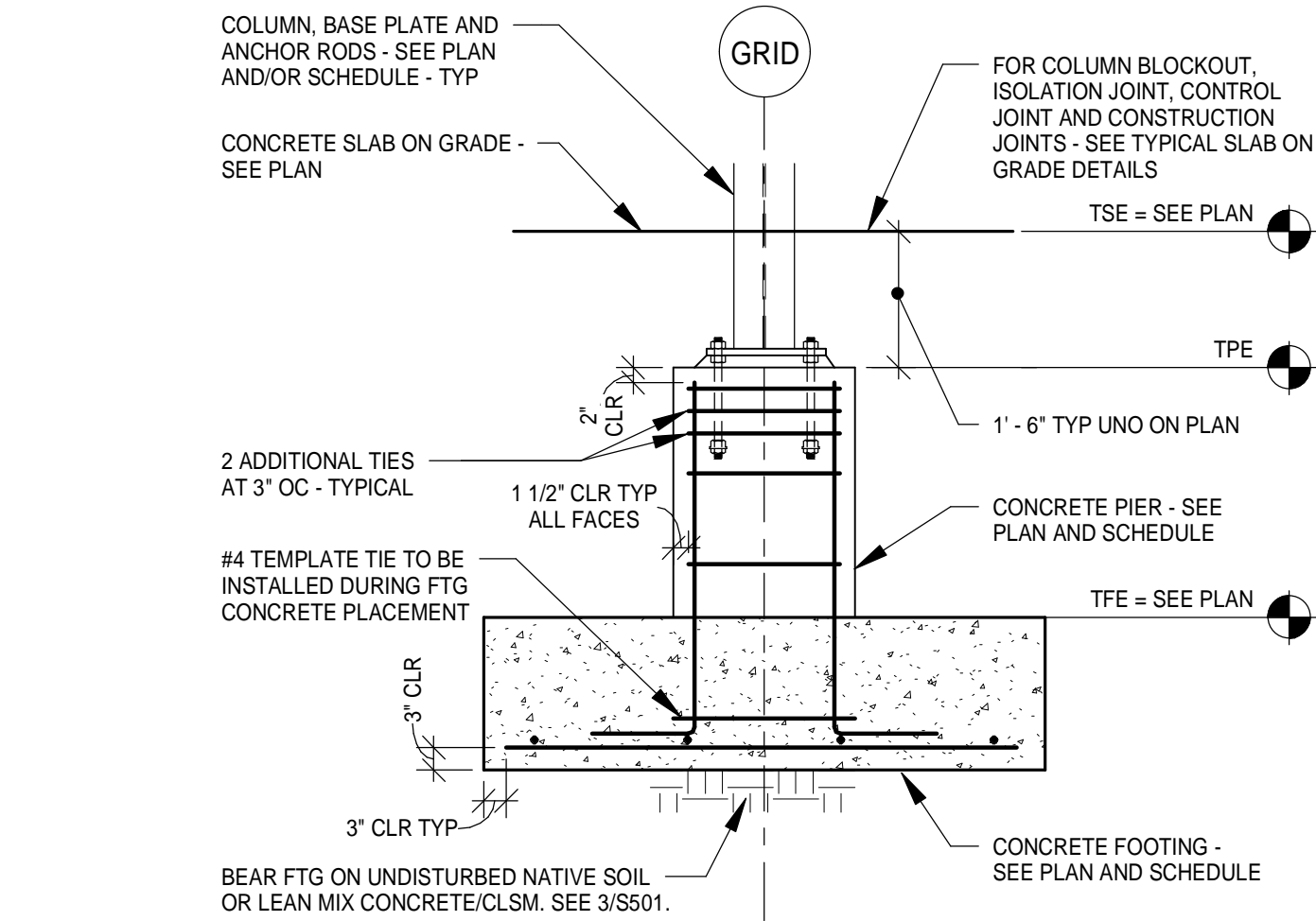


1 TYPICAL INTERIOR WF COLUMN FOOTING DETAIL
NO SCALE

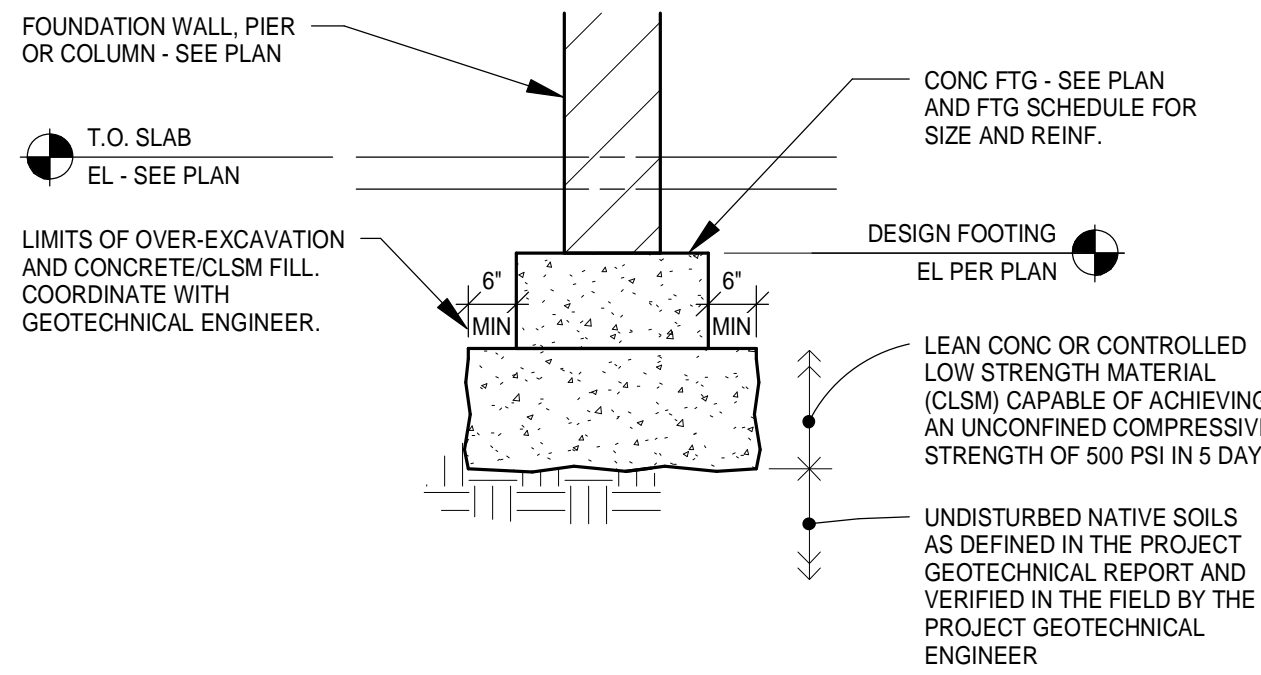
TENSION LAP SPLICE / CONCRETE / GR 60 UNCOATED REINFORCING				
STRUCTURAL ELEMENTS	FOOTINGS / SLAB-ON-GRADE / CONCRETE FILL ON METAL DECK			
	F _c = 4,000 PSI (NORMAL WEIGHT)			
CONCRETE	CLASS "A" LAP		CLASS "B" LAP	
	BAR SIZE		BAR SIZE	
#3	BASIC	12"	BASIC	14"
	TOP BAR	14"	TOP BAR	18"
#4	BASIC	15"	BASIC	19"
	TOP BAR	19"	TOP BAR	25"
#5	BASIC	18"	BASIC	23"
	TOP BAR	23"	TOP BAR	30"
#6	BASIC	22"	BASIC	28"
	TOP BAR	28"	TOP BAR	36"
#7	BASIC	32"	BASIC	42"
	TOP BAR	42"	TOP BAR	55"
#8	BASIC	42"	BASIC	55"
	TOP BAR	55"	TOP BAR	71"
#9	BASIC	53"	BASIC	69"
	TOP BAR	69"	TOP BAR	90"
#10	BASIC	68"	BASIC	88"
	TOP BAR	88"	TOP BAR	114"
#11	BASIC	83"	BASIC	108"
	TOP BAR	108"	TOP BAR	140"

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE PLACED BELOW THEM.
2. USE CLASS "B" LAP LENGTHS - TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS.

5 BAR LAP SCHEDULE
NO SCALE

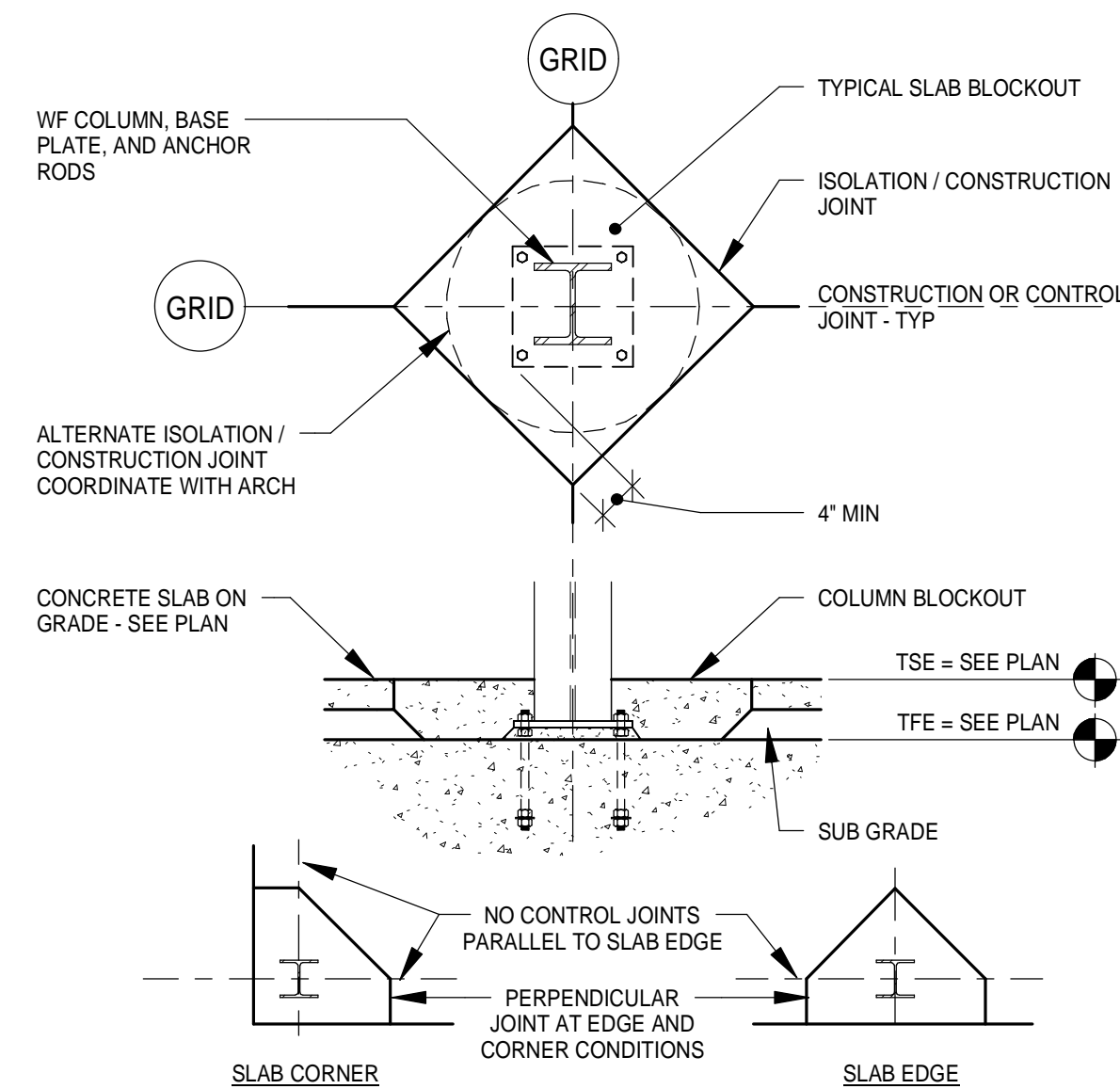


2 TYPICAL WF COLUMN, CONCRETE PIER AND FOOTING DETAIL
NO SCALE

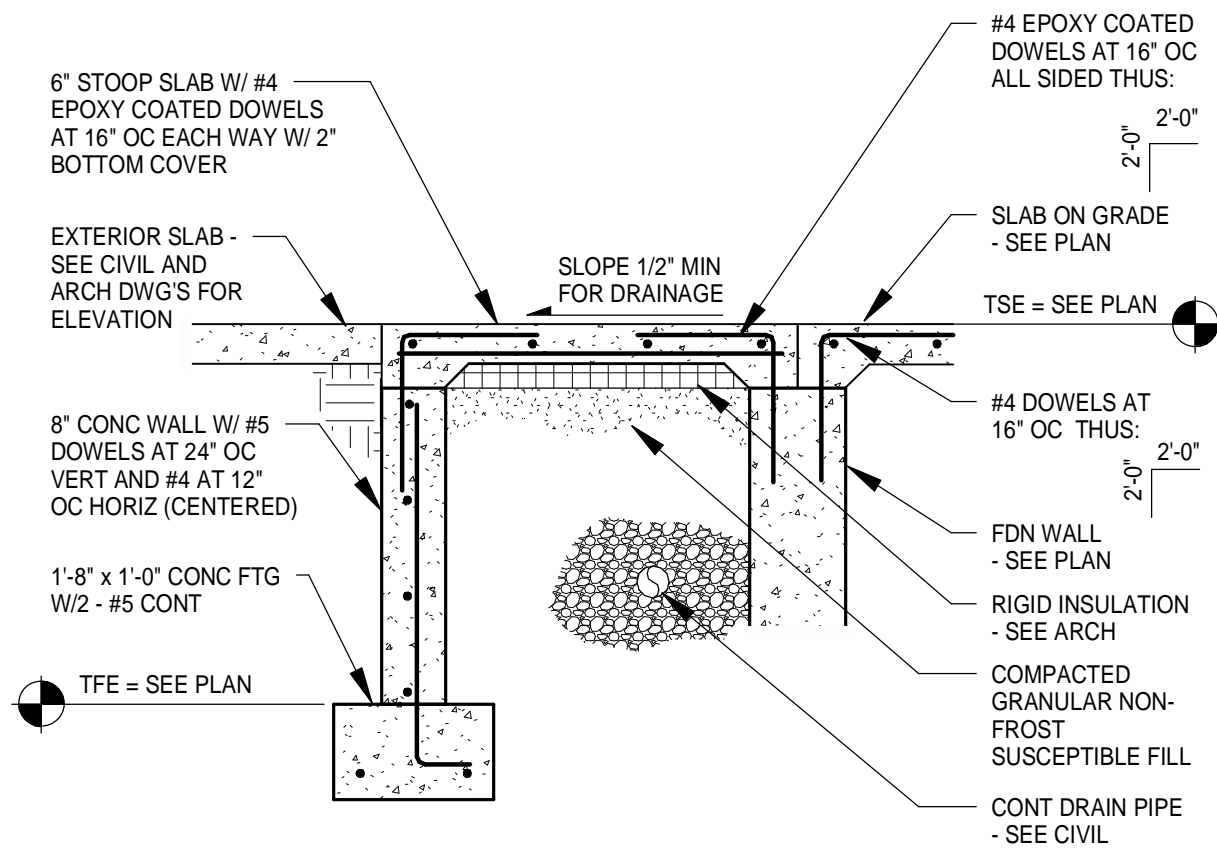


NOTES:
1. THIS DETAIL APPLIES ONLY AT LOCATIONS WHERE THE GEOTECHNICAL ENGINEER HAS DETERMINED THAT SOILS AT THE DESIGN FOOTING ELEVATIONS ARE NOT ADEQUATE FOR FOOTING SUPPORT ACCORDING TO THE ALLOWABLE SOIL BEARING CAPACITY LISTED UNDER "DESIGN UNIT STRESS" ON SHEET S002.
2. IN LIEU OF OVER-EXCAVATING AND PLACING LEAN CONCRETE OR CLSM AS OUTLINED IN THIS DETAIL, CONTRACTOR MAY LOWER THE DESIGN FOOTING ELEVATION SUCH THAT THE FOOTING RESTS DIRECTLY ON UNDISTURBED NATIVE SOILS AS APPROVED BY THE GEOTECHNICAL ENGINEER IN THE FIELD.

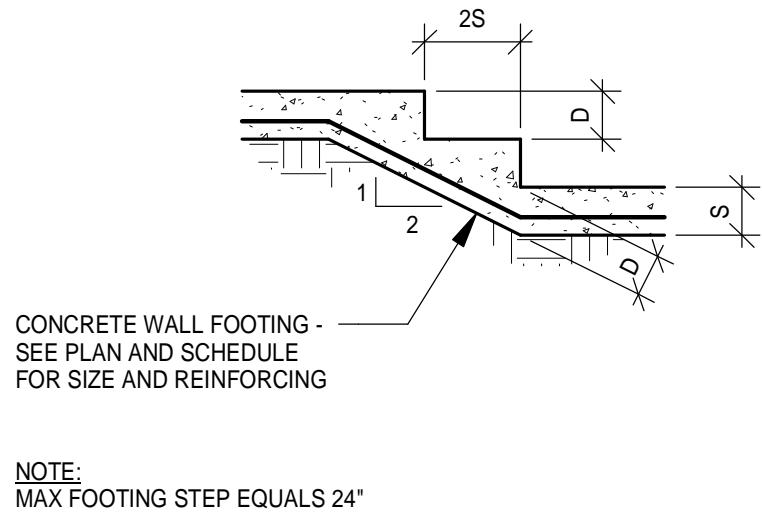
3 OVER-EXCAVATION WITH LEAN CONCRETE/CLSM FILL DETAIL
NO SCALE



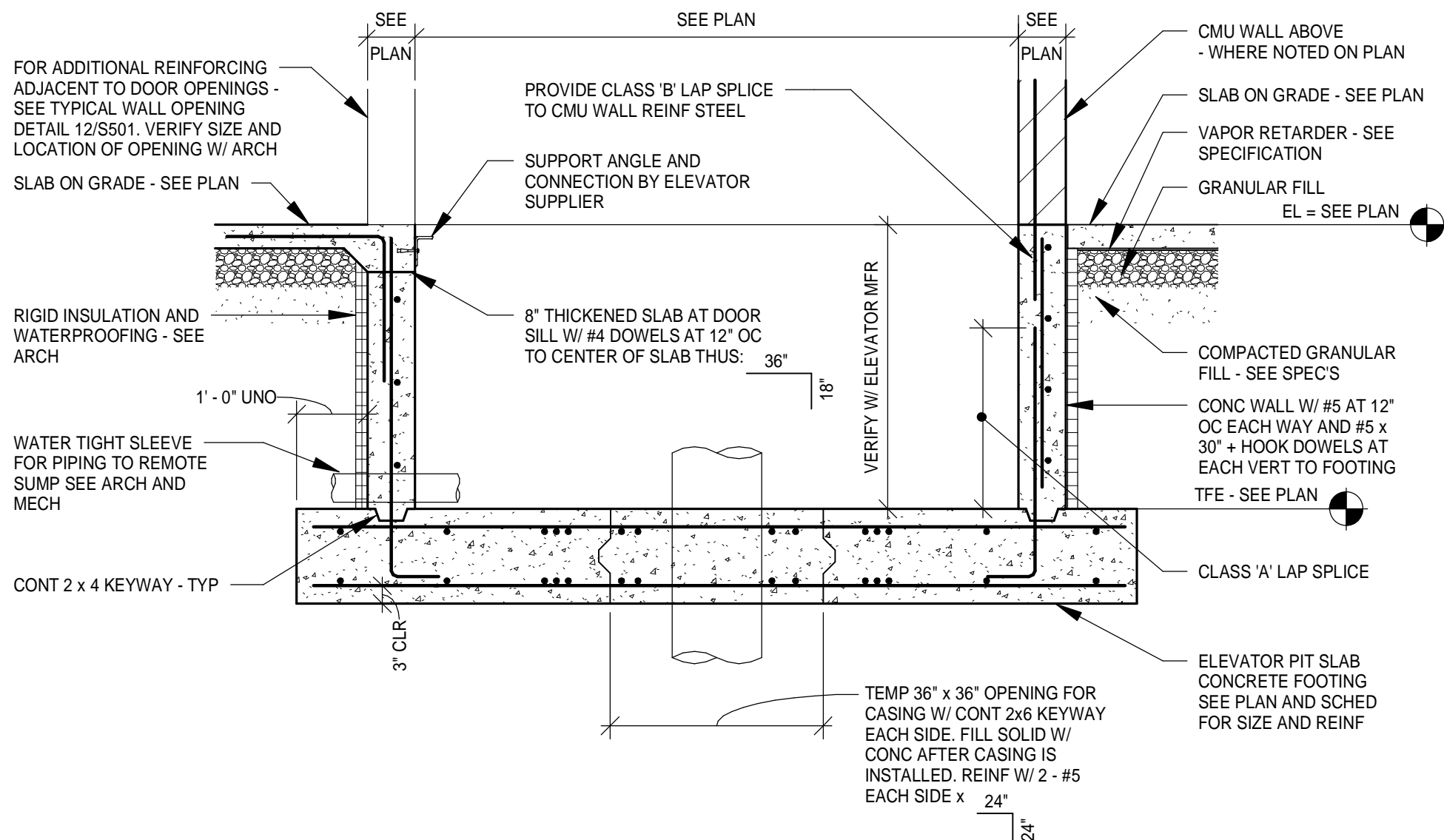
4 TYPICAL COLUMN ISOLATION JOINT
NO SCALE



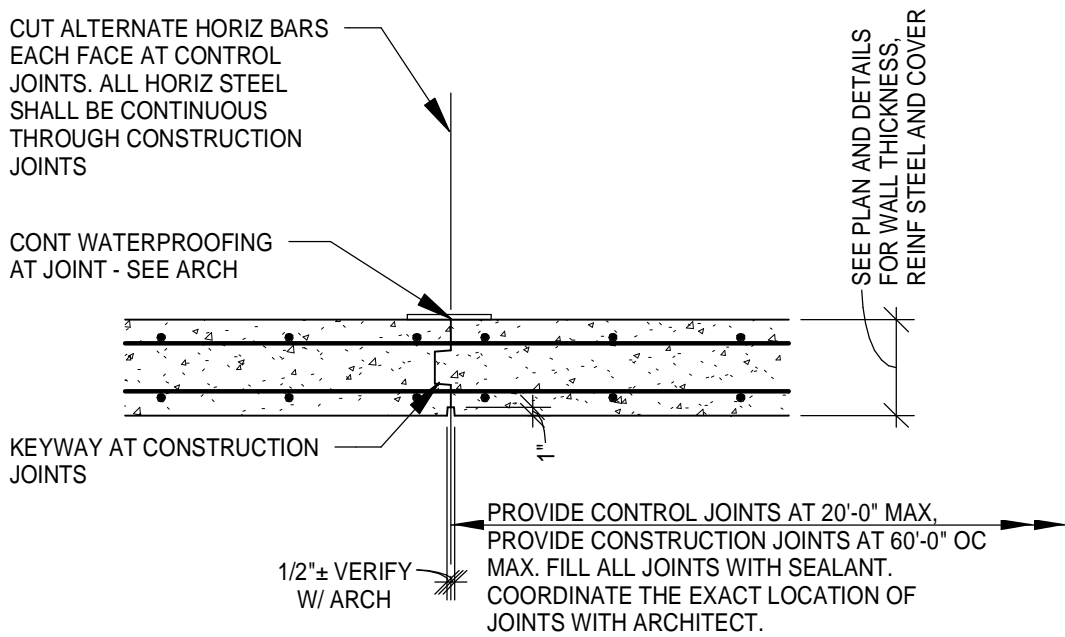
6 TYPICAL STOOP DETAIL
NO SCALE



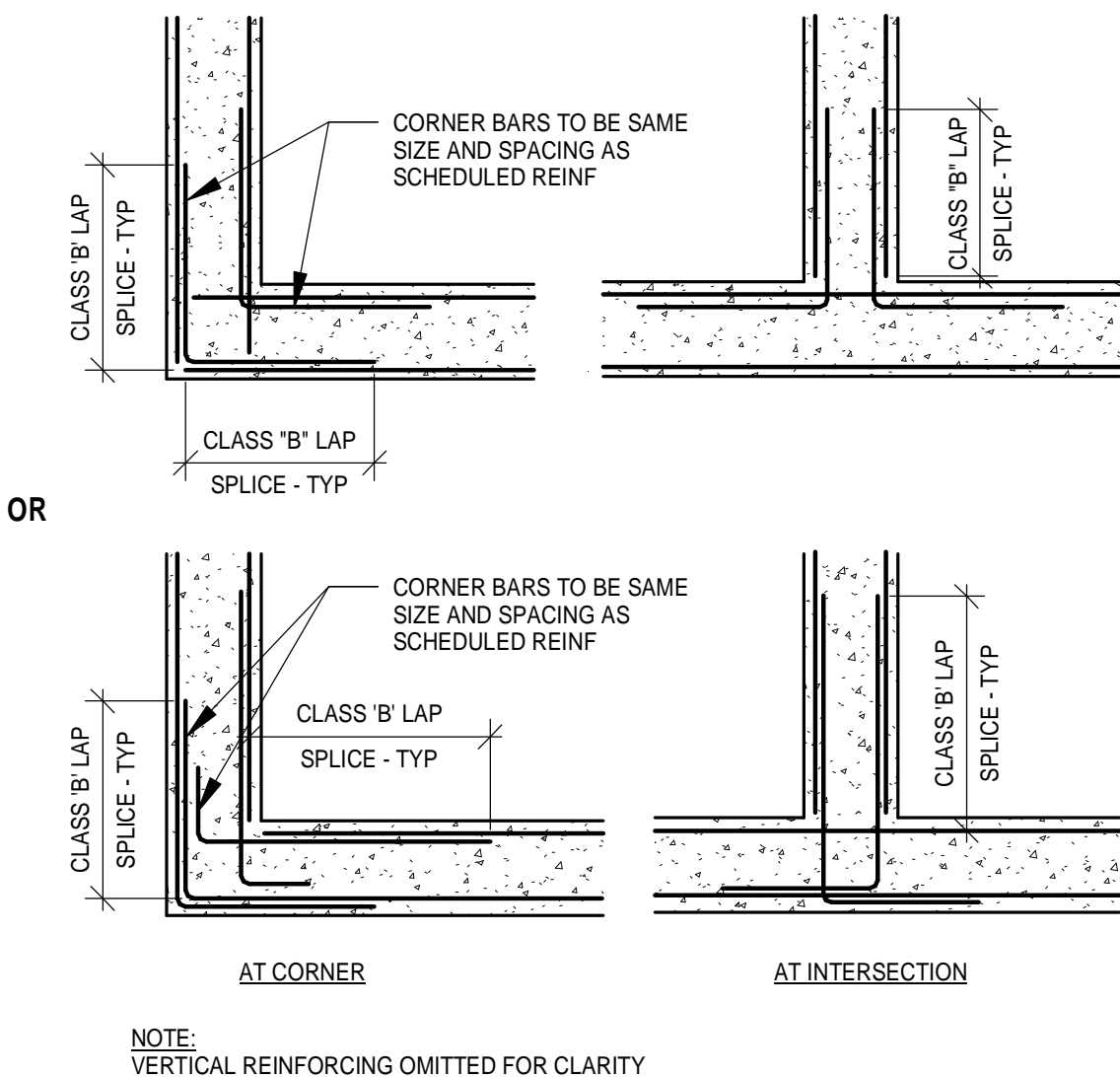
7 TYPICAL FOOTING STEP
NO SCALE



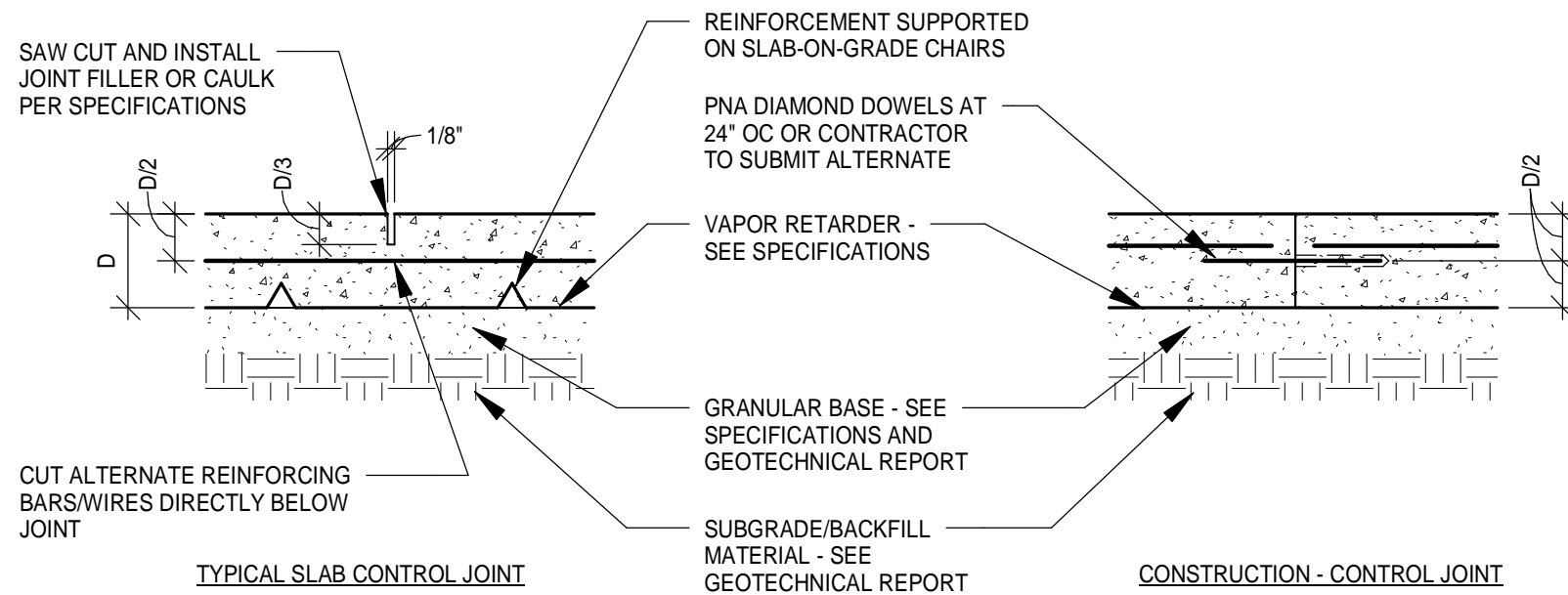
8 SECTION THRU ELEVATOR PIT
NO SCALE



9 TYPICAL CONSTRUCTION/CONTROL JOINTS FOR CONCRETE WALLS
1/2" ± 1'-0"

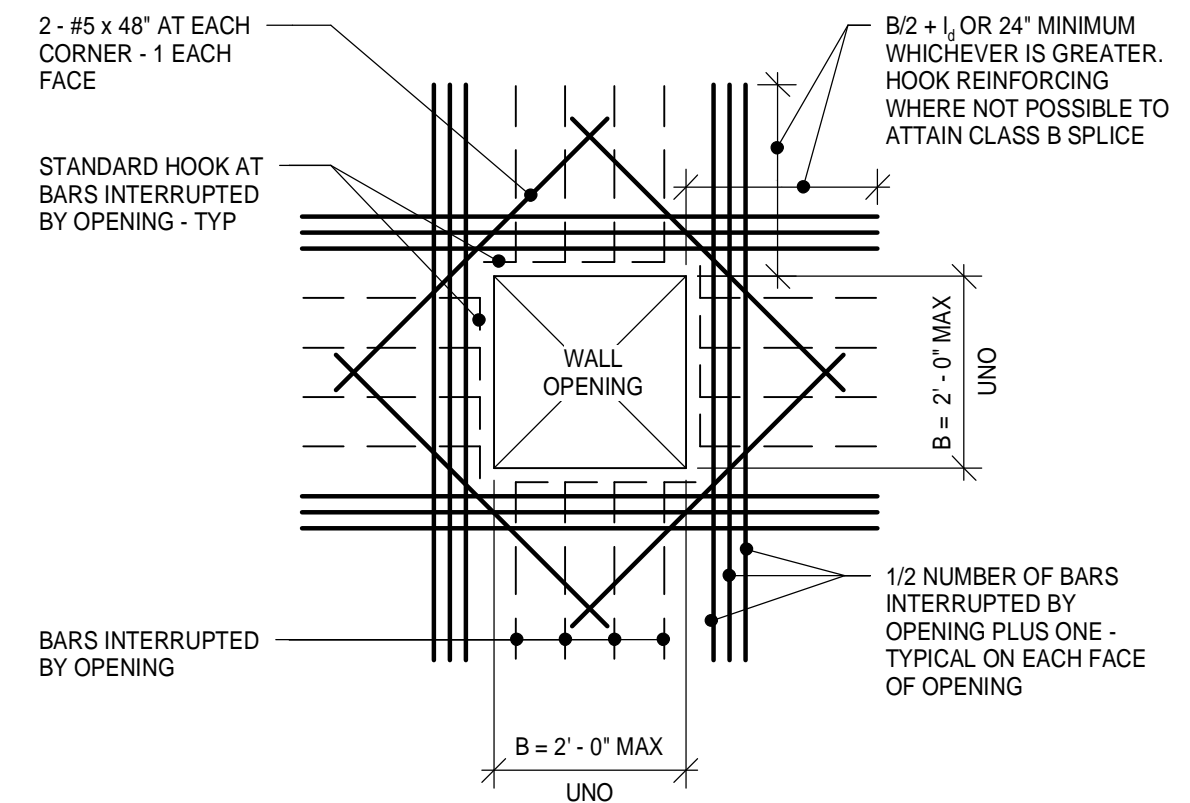


10 TYPICAL CORNER BAR PLACING DETAIL
NO SCALE



NOTES:
1. A CONSTRUCTION JOINT WHICH IS NOT INTENDED TO ALSO SERVE AS A CONTROL JOINT IS TO HAVE ALL REINFORCING EXTEND THROUGH IT AND TO HAVE NO GROOVE/SAW-CUT, UNLESS NOTED OTHERWISE.
2. IGNORE REINFORCING NOTES AT UNREINFORCED OR FIBER REINFORCED SLABS-ON-GRADE.
3. FOR EXTERIOR SLAB ON GRADE EXPOSED TO FREEZE-THAW CYCLES, CONSTRUCT A SLAB EXPANSION-CONTRACTION JOINT THE SAME EXCEPT ADD 3/8" COMPRESSIBLE MATERIAL THROUGH JOINT.

11 TYPICAL SLAB ON GRADE CONSTRUCTION DETAIL
1/2" ± 1'-0"



NOTES:
1. FOR WALL OPENINGS LARGER THAN 2'-0" (FOR WALLS NOT SUBJECT TO LATERAL EARTH PRESSURE) ADD 2 - #5 EACH FACE ALL 4 SIDES OF OPENING. EXTEND BAR 24" PAST OPENING UNLESS NOTED OTHERWISE.

12 TYPICAL ADDITIONAL BAR PLACING DETAIL FOR WALL OPENING
1/2" ± 1'-0"

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DESIGNED BY: CWB

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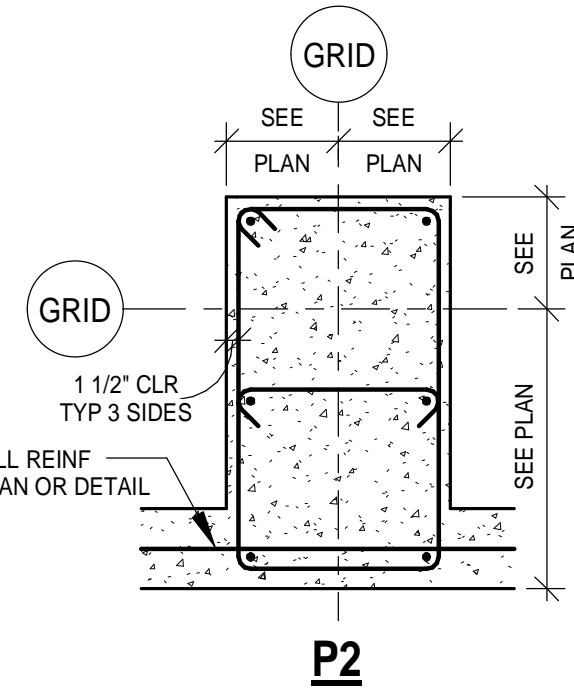
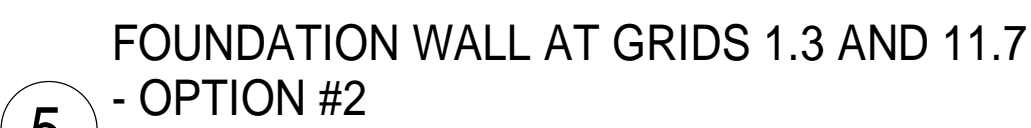
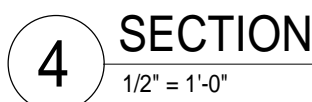
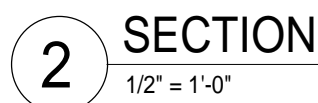
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NOTES:
1. PROVIDE 3 - #4 TIES AT 3" ON CENTER TOP, TYPICAL.
2. RUN WALL STEEL CONTINUOUS THROUGH PIERS AT INTERSECTIONS.



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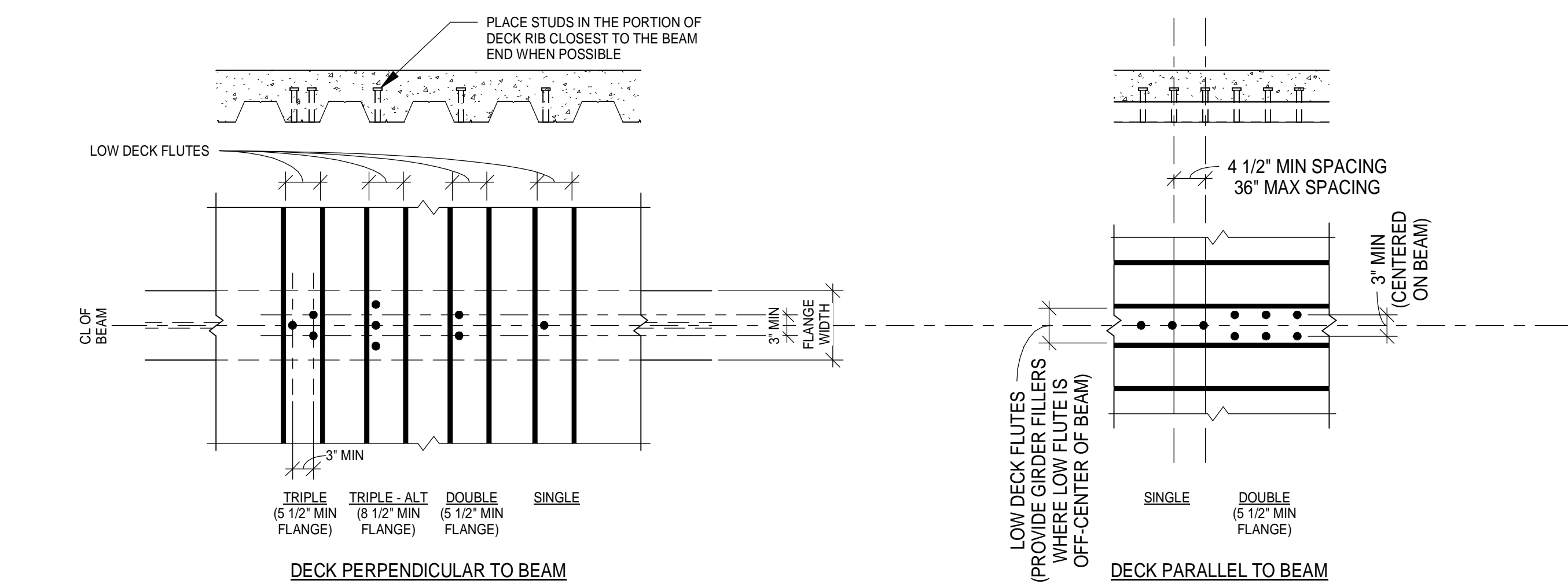
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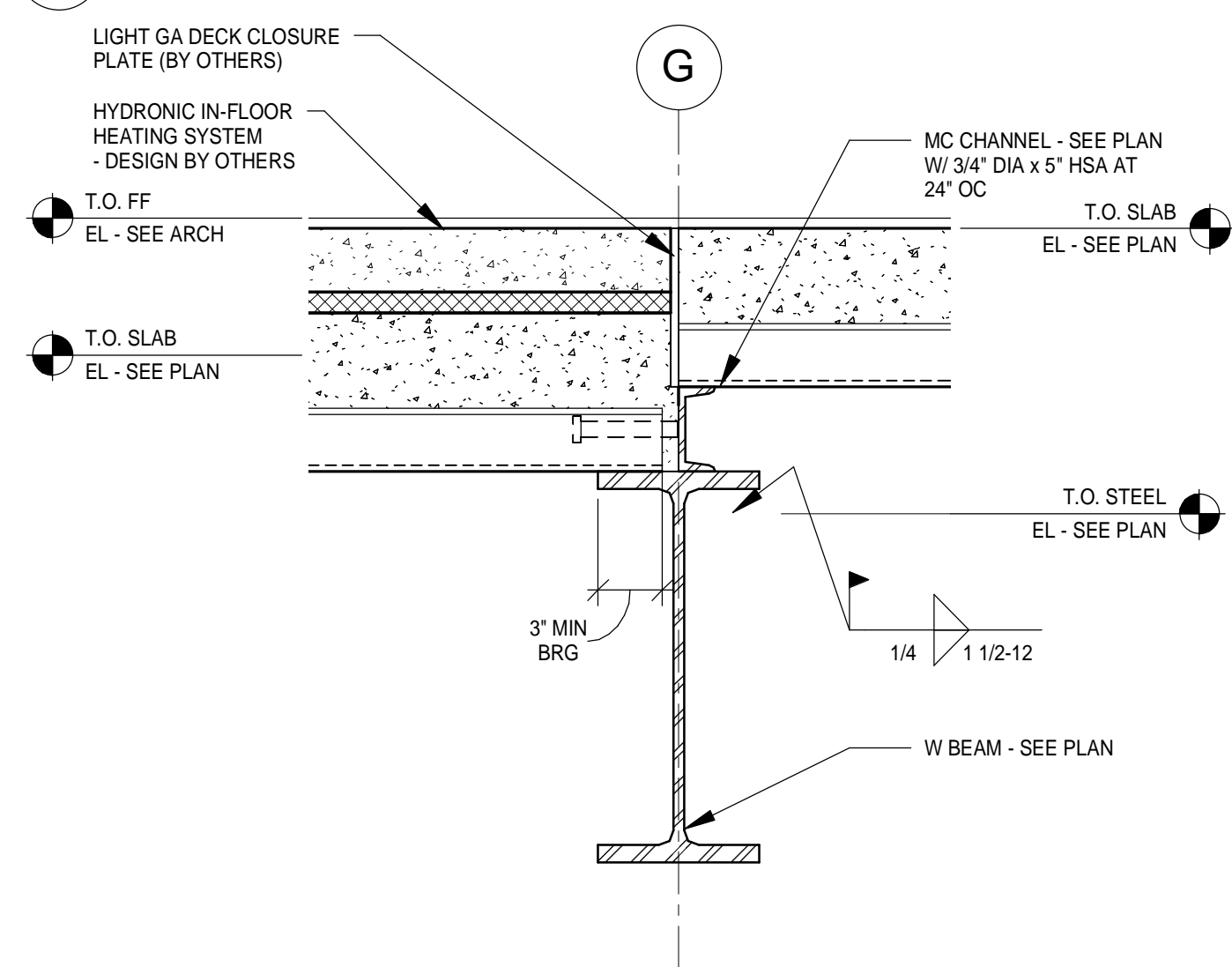
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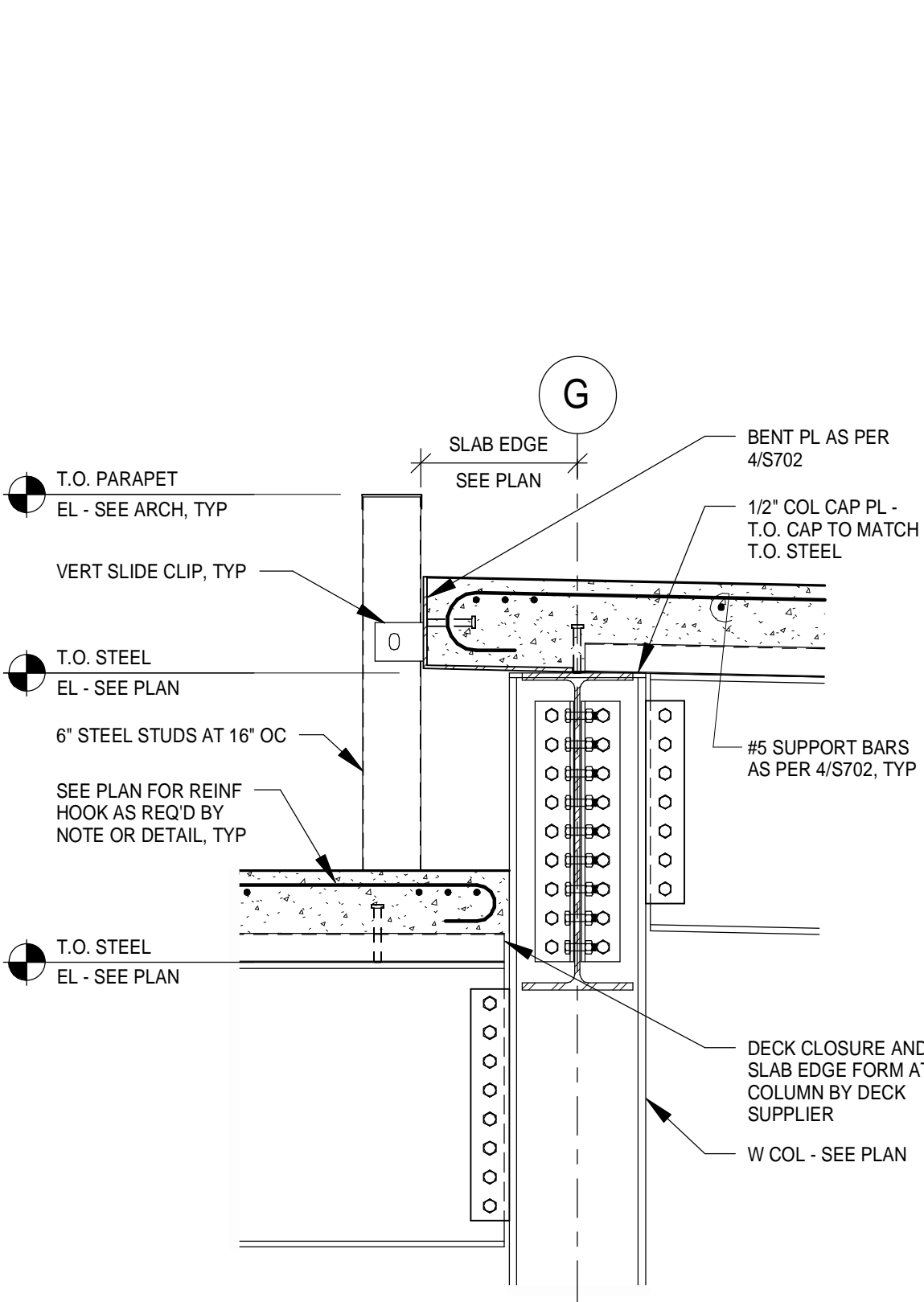
- NOTES (UNO):**
1. USE ONLY ONE STUD PER RIB UNTIL NUMBERS OF STUDS EXCEEDS DECK RIBS AVAILABLE. LOCATE SINGLE STUDS OVER WEB.
 2. START LAYOUT OF HEADED STUDS AT EACH END OF THE BEAM AND PROCEED TOWARDS THE CENTER OF THE BEAM.
 3. PROVIDE STUDS IN DOUBLE OR TRIPLE CONFIGURATION SHOWN TO MEET TOTAL NUMBER OF STUDS REQUIRED. START LAYOUT OF DOUBLE/TRIPLE STUDS AT EACH END OF BEAM. DOUBLE/TRIPLE STUD LAYOUTS SHALL ONLY BE USED FOR BEAMS WITH MINIMUM FLANGE WIDTHS SHOWN.
 4. PROVIDE ADDITIONAL STUDS BEYOND NUMBER NOTED ON PLANS OR SCHEDULES TO MEET MAXIMUM STUD SPACING SHOWN.
 5. HEADED STUDS SHALL BE 3/4" DIA x 5" LONG (AFTER WELDING) TYPICAL, UNLESS NOTED OTHERWISE. REMOVE ALL FERRULS PRIOR TO CONCRETE PLACEMENT.

1 TYPICAL HEADED STUD PLACEMENT DETAIL



3 SECTION

1 1/2" = 1'-0"

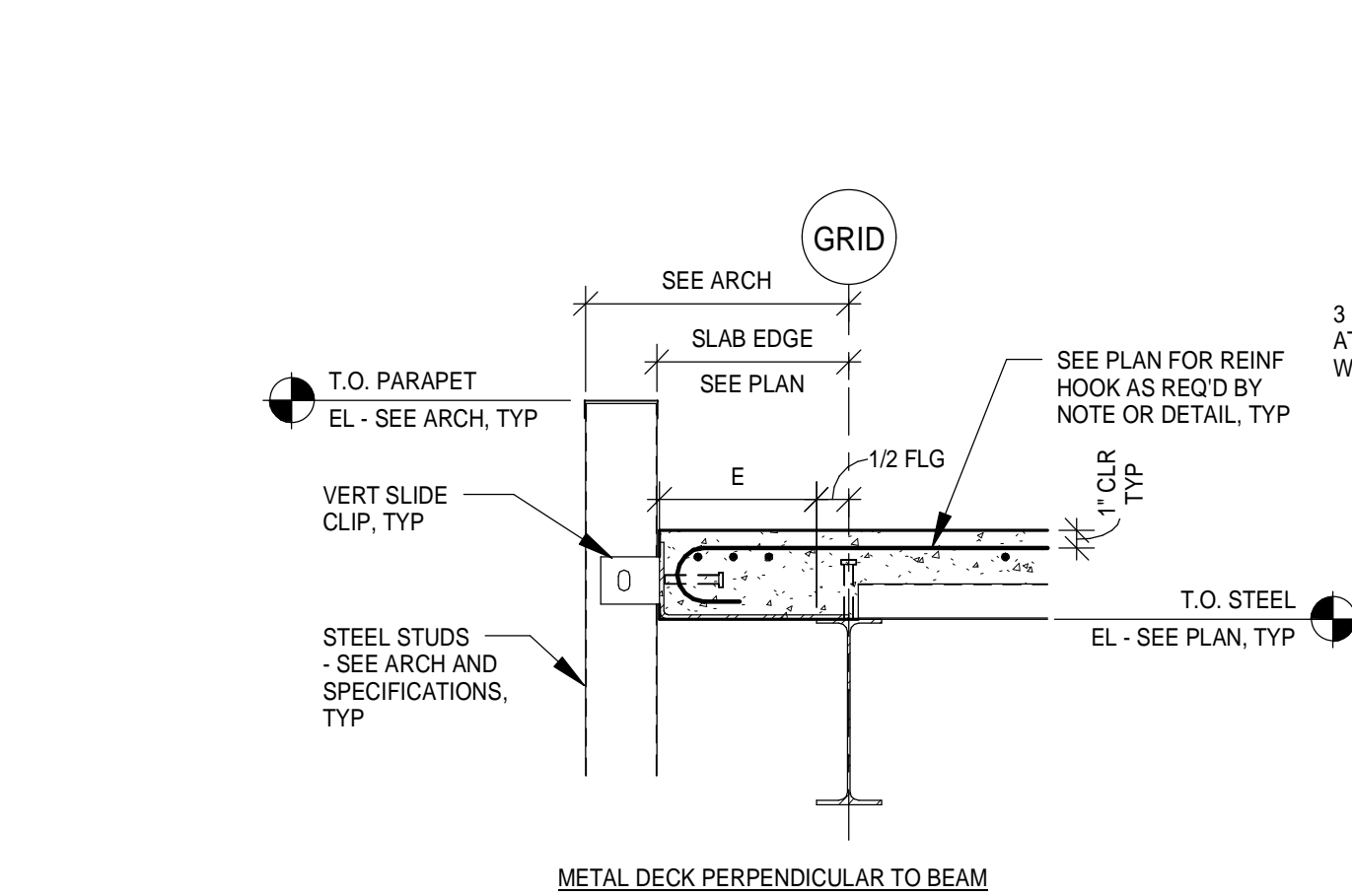


6 HIGH - LOW SECTION AT COLUMN

3/4" = 1'-0"

- NOTES:**
1. TRIPLE STUDS NOT PERMITTED.

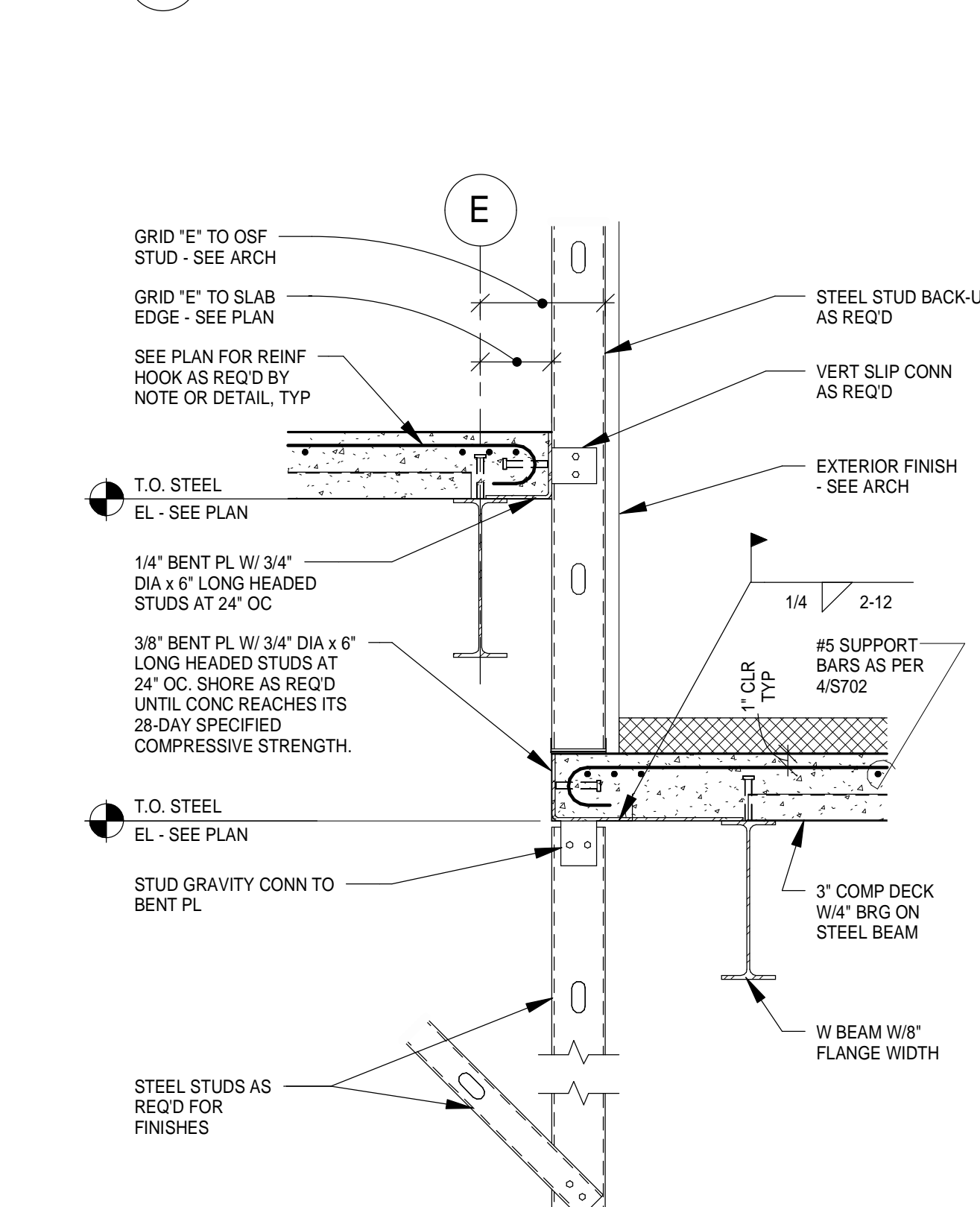
2 TYPICAL SLAB EDGE DETAILS AT FLOOR OPENINGS



- NOTES:**
1. FOR "E" LESS THAN 12", PROVIDE 1/4" BENT PLATE EDGE FORM WITH 3/4" DIA x 6" LONG HEADED STUDS AT 24" OC.
 2. FOR "E" GREATER THAN 12" BUT LESS THAN 24", PROVIDE 3/8" BENT PLATE EDGE FORM WITH 3/4" DIA x 6" HEADED STUDS AT 24" OC AND SHORE SLAB OVERHANG AS REQUIRED UNTIL CONCRETE REACHES ITS 28 DAY SPECIFIED COMPRESSIVE STRENGTH.

4 TYPICAL ROOF SLAB EDGE DETAIL

NO SCALE

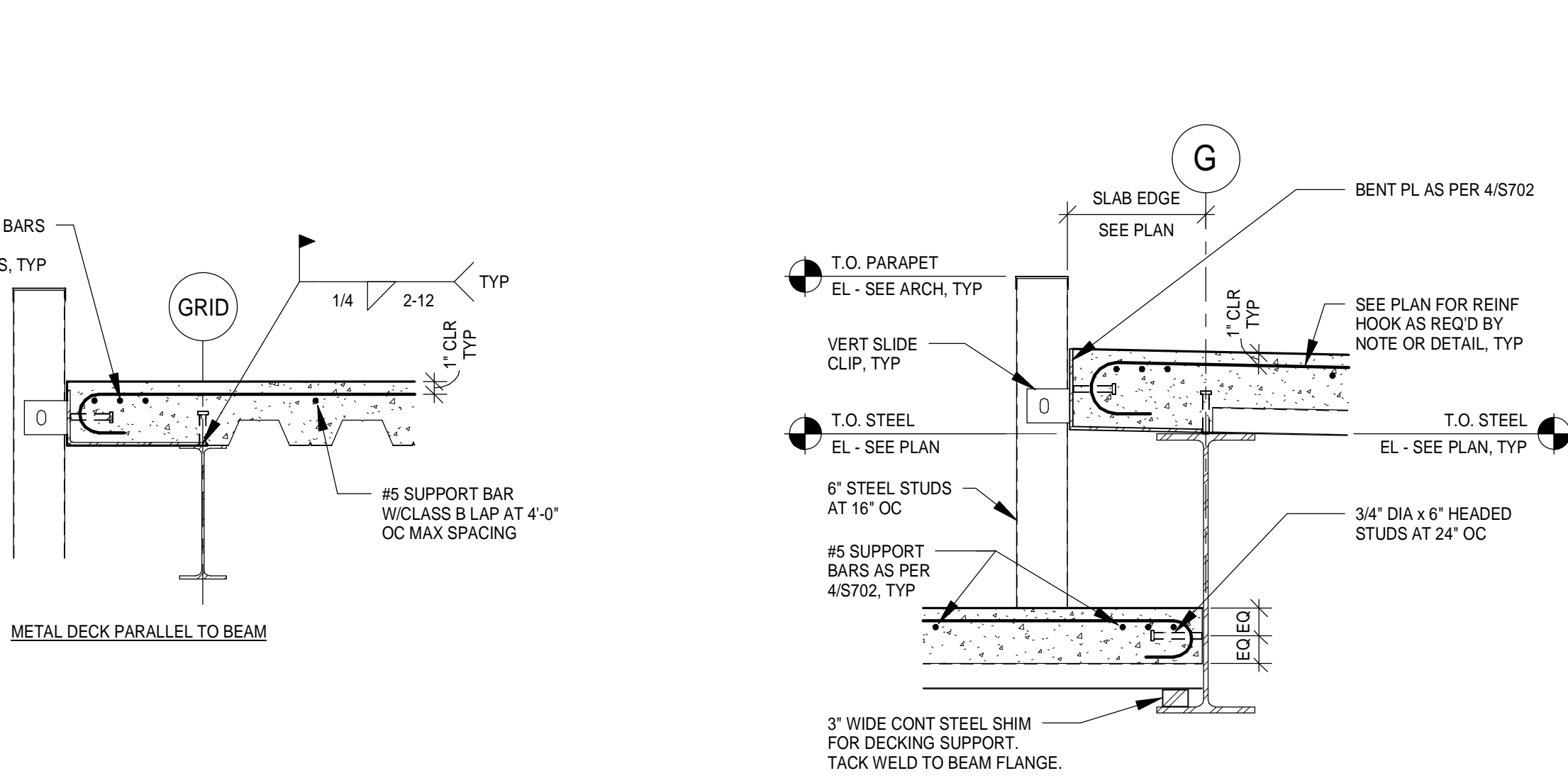


7 SECTION (CURVED ROOF BELOW 3RD FLOOR)

3/4" = 1'-0"

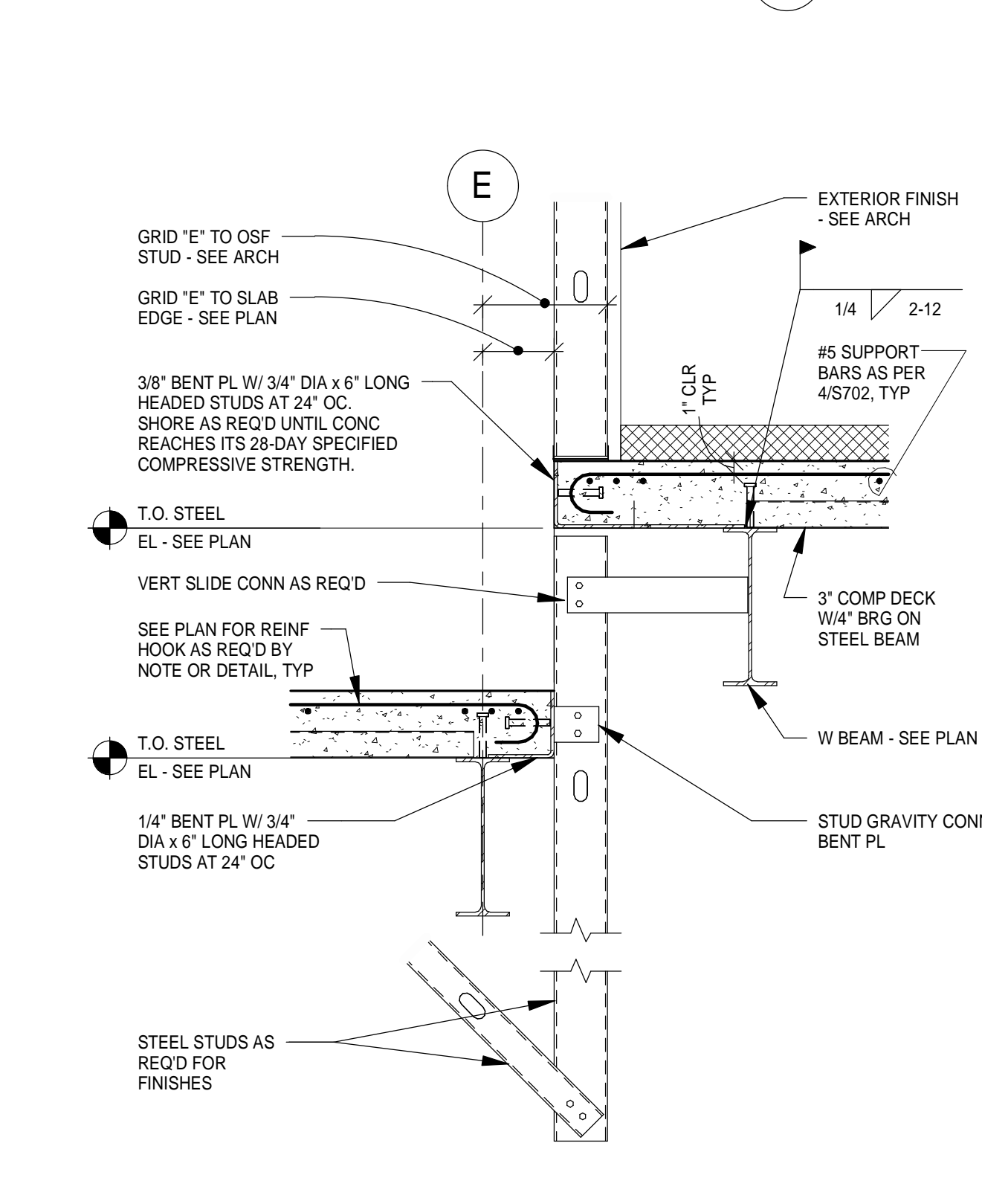
- NOTES:**
1. FOR E GREATER THAN 6" BUT LESS THAN 12", PROVIDE 1/4" BENT PLATE WITH 3/4" DIA x 5" HEADED STUDS AT 24" OC.
 2. FOR E GREATER THAN 12" BUT LESS THAN 24", PROVIDE 3/8" BENT PLATE WITH 3/4" DIA x 5" HEADED STUDS AT 24" OC AND SHORE SLAB OVERHANG AS REQUIRED UNTIL CONCRETE REACHES SPECIFIED 28 DAY COMPRESSIVE STRENGTH.

5 HIGH - LOW SLAB EDGE DETAIL



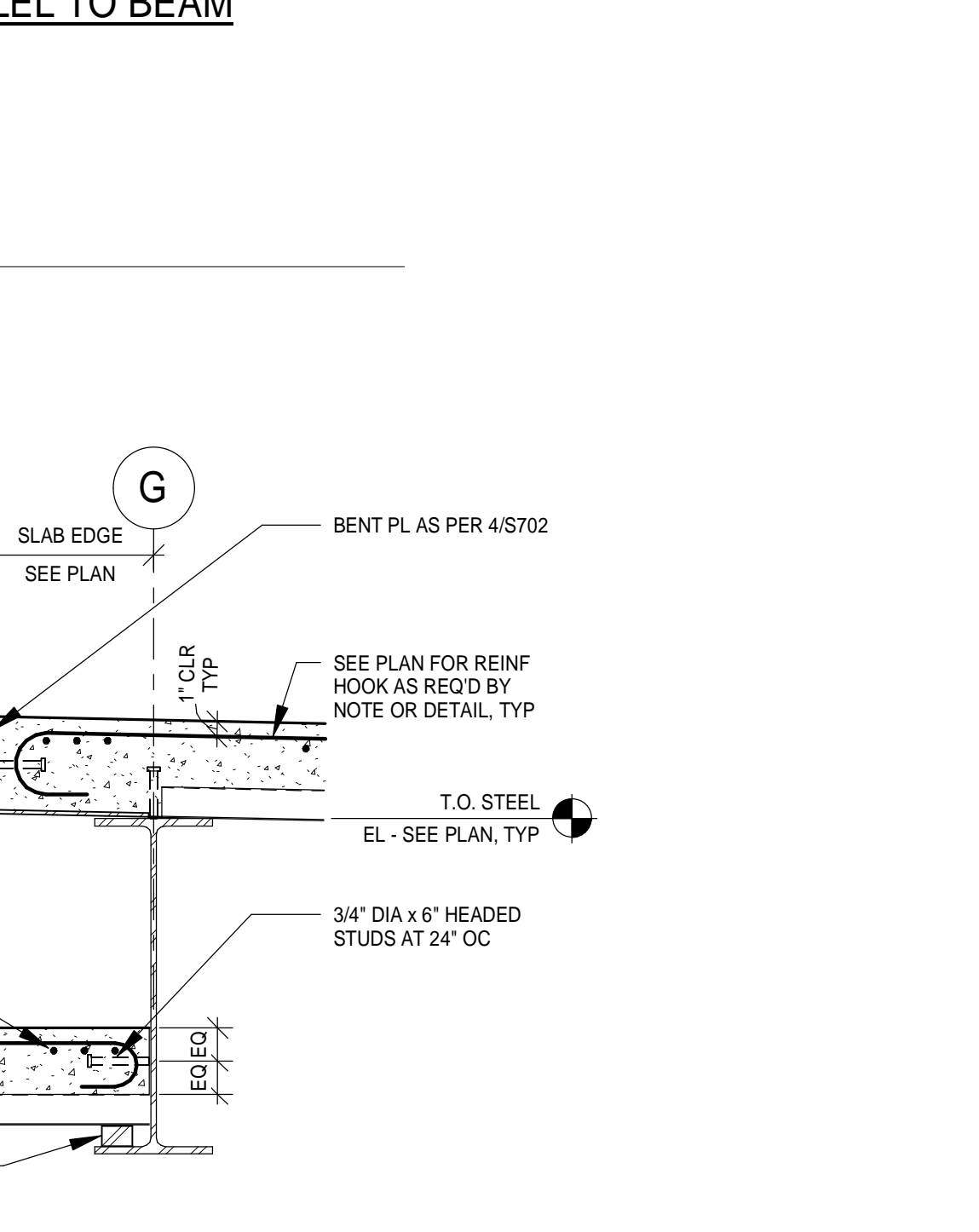
5 HIGH - LOW SLAB EDGE DETAIL

3/4" = 1'-0"



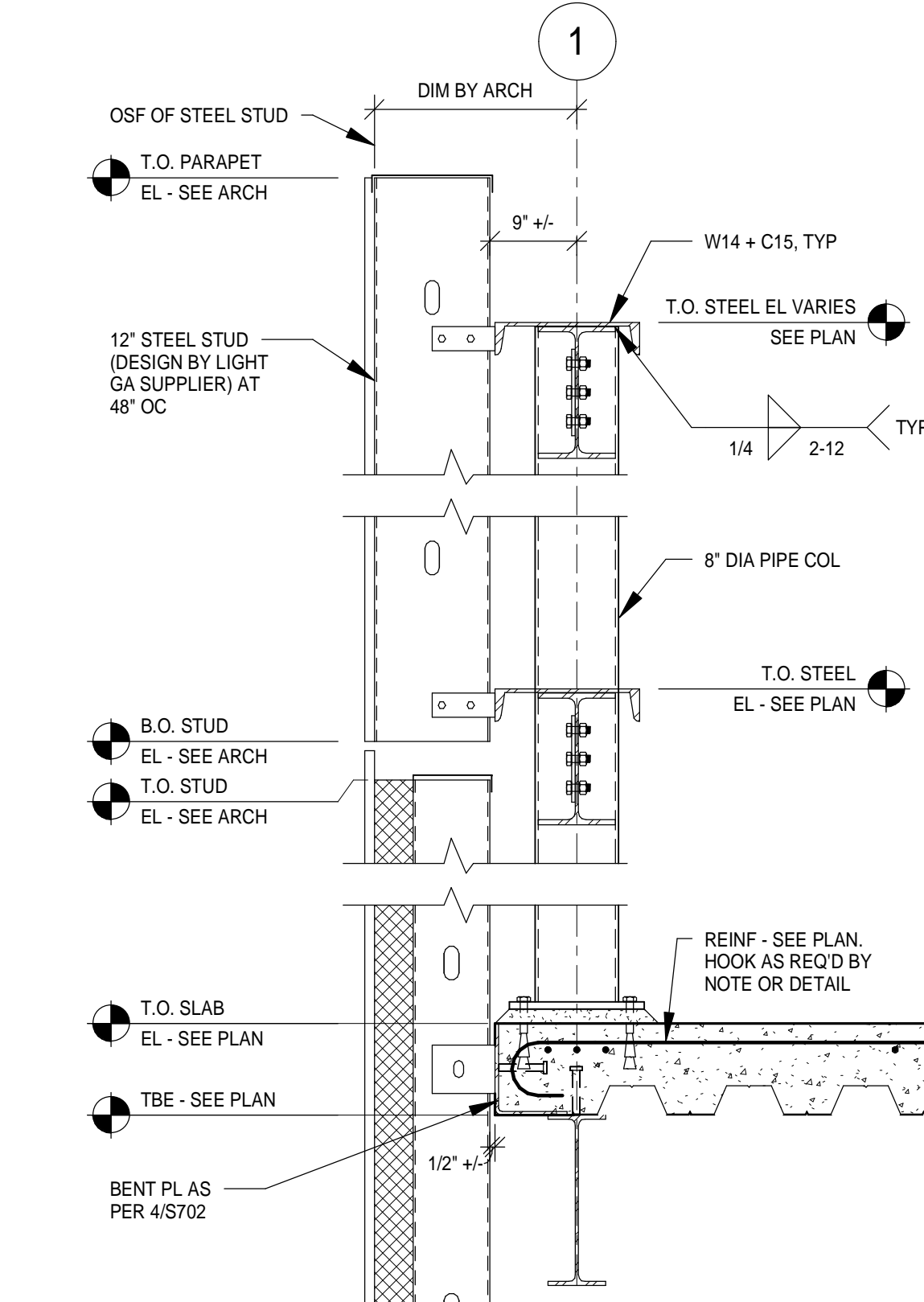
8 SECTION (CURVED ROOF ABOVE 3RD FLOOR)

3/4" = 1'-0"



9 SECTION

3/4" = 1'-0"



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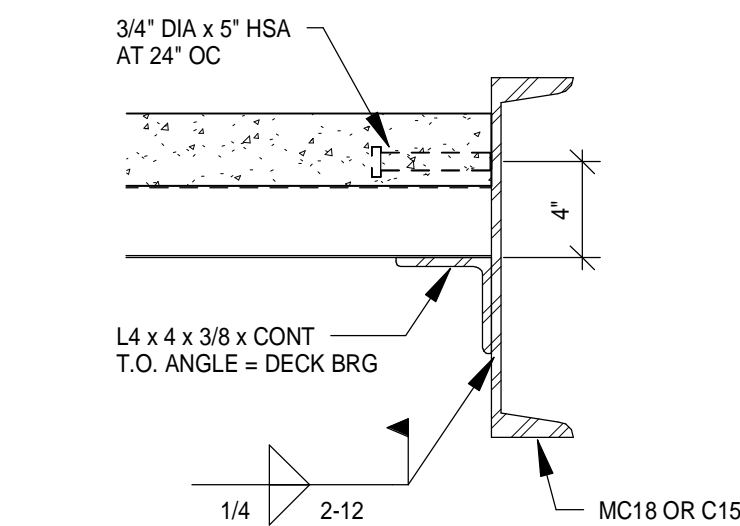
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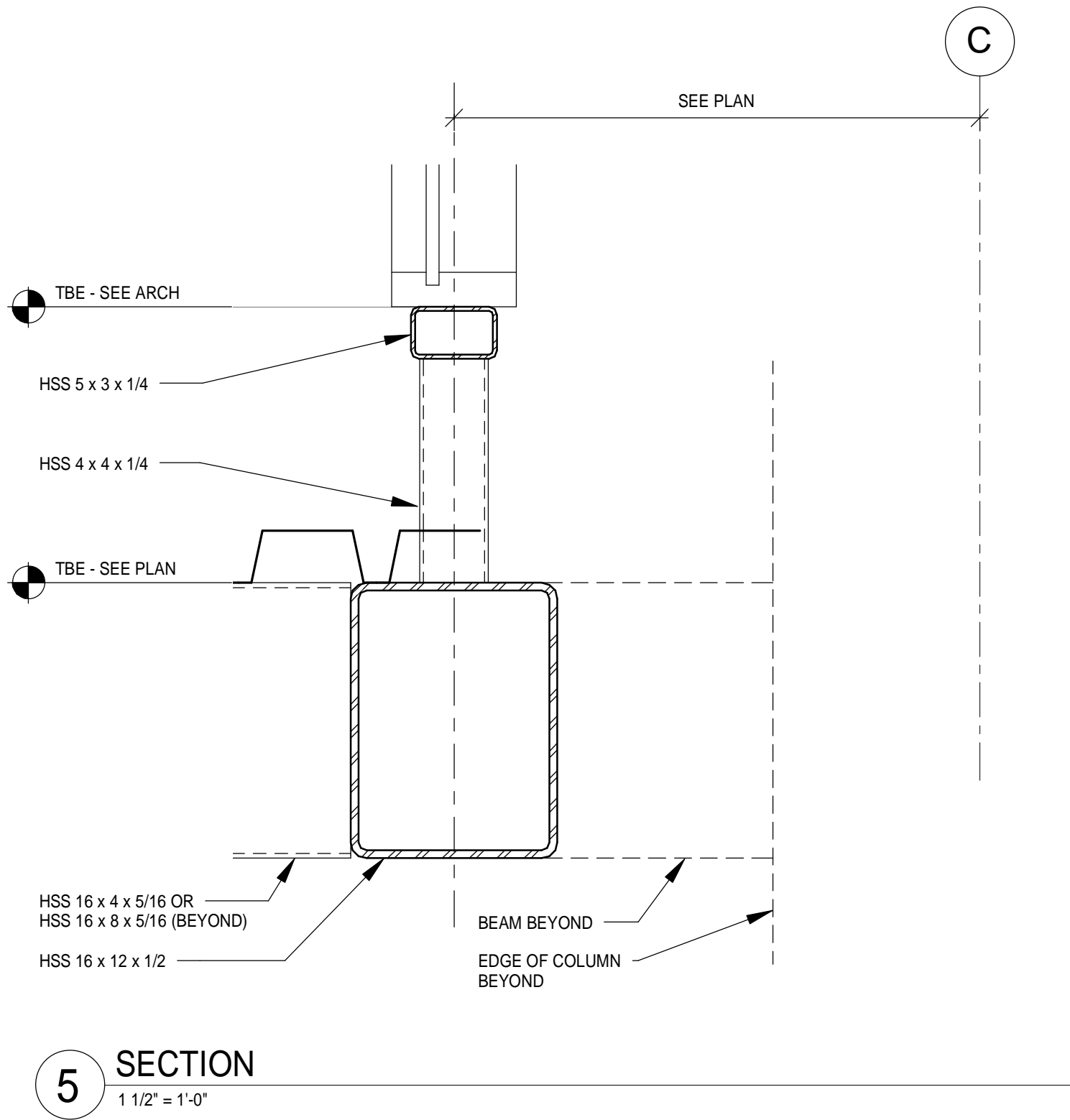
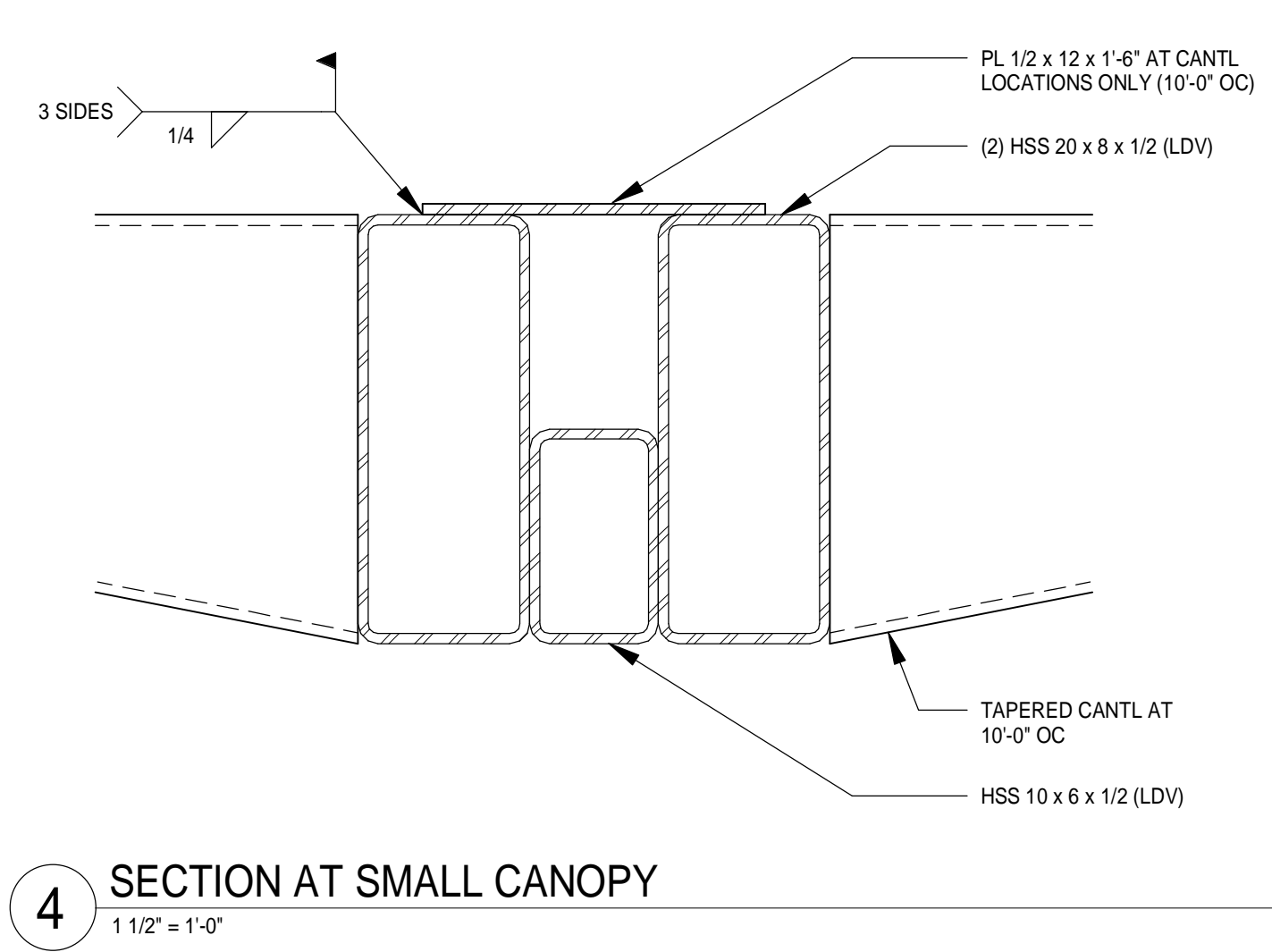
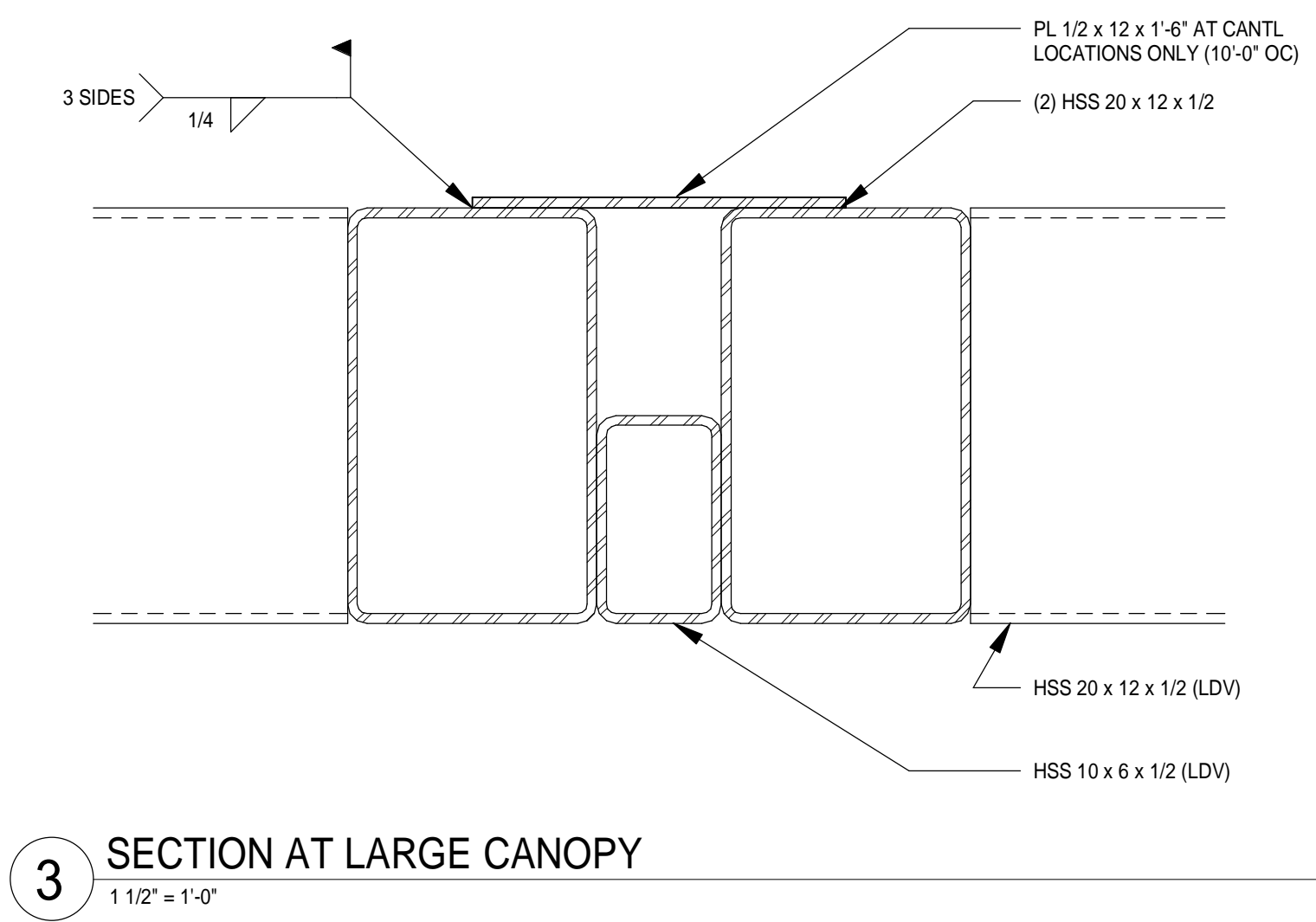
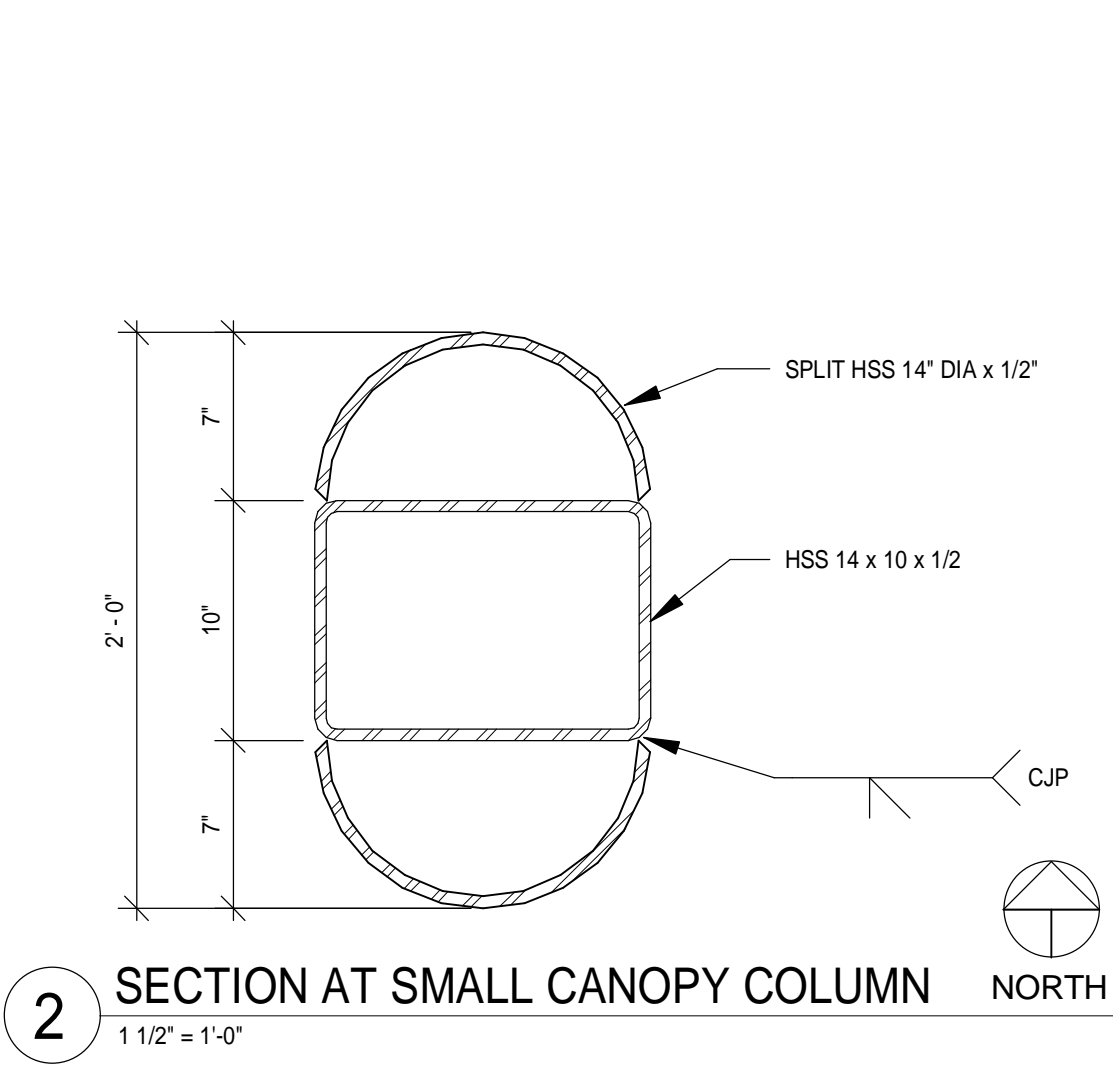
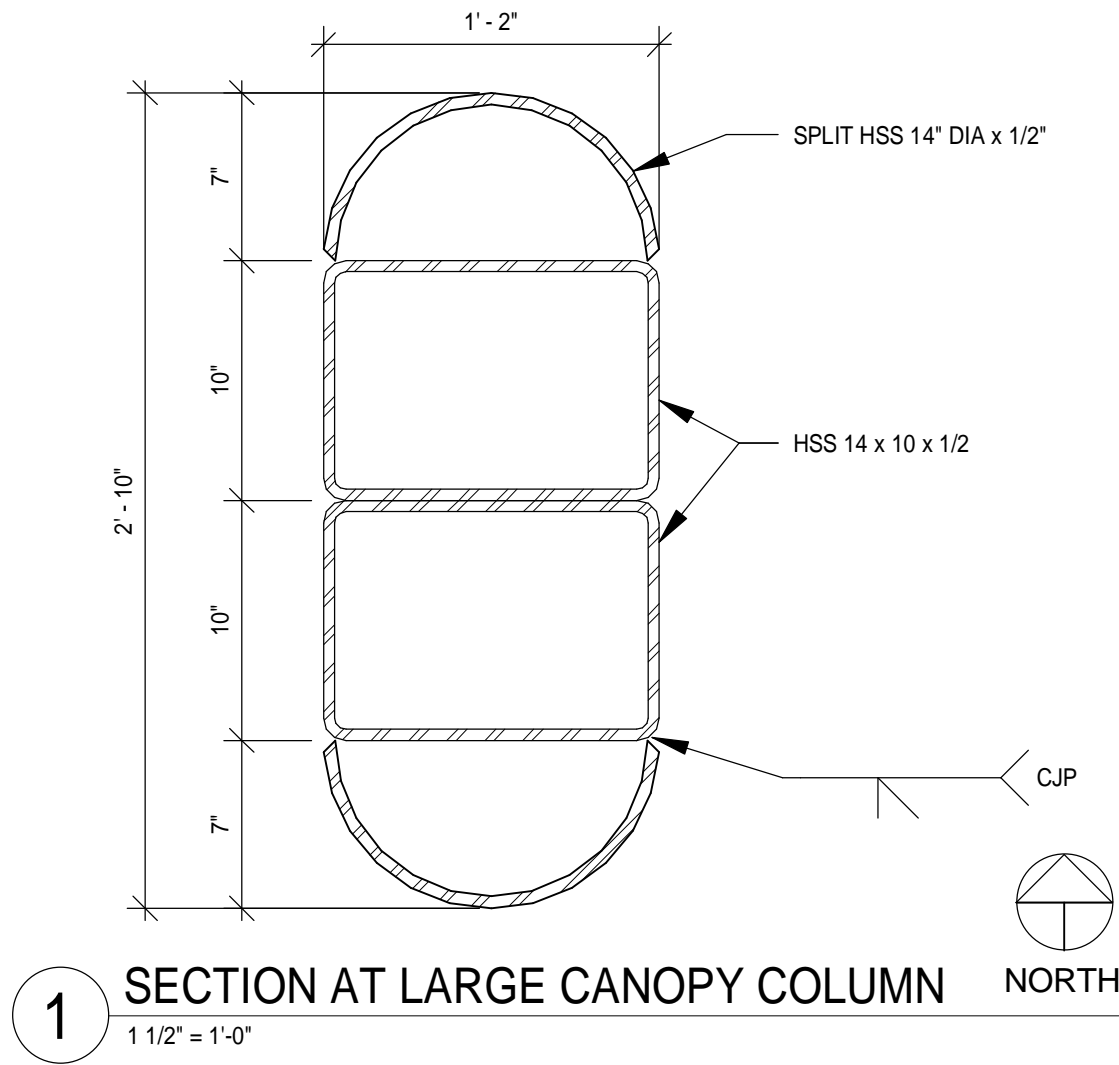
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