



# DULUTH INTERNATIONAL AIRPORT

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

FAA AIP No. - 3-27-0024-48-10  
RS&H PROJ. No. - 213.1882.091  
CITY OF DULUTH BID No. - 10-4401

## DULUTH AIRPORT AUTHORITY BOARD OF DIRECTORS

- President: John Eagleton
- Vice President: Robert Pearson
- Secretary: Michael Lundstrom
- Conrad Firling
- Roy Niemi
- Roger Wedin



## NEW PASSENGER TERMINAL BUILDING PERMIT VOLUME 1 OF 2 ARCHITECTURAL, STRUCTURAL

AUG 16, 2010



Construction Managers:  
**KRAUS-ANDERSON.**  
3716 Oneota Street  
Duluth MN 55807  
TEL: (218) 722-3775 / FAX: (218) 722-3778



Architects and Civil Engineers:  
**REYNOLDS, SMITH & HILLS, INC.**  
4525 Airport Approach Road,  
Duluth MN 55811  
TEL: (218) 722-1227 / FAX: (218) 722-1052

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

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

M/E/P/FP Engineers:  
**COSENTINI ASSOCIATES INC.**  
1 South Wacker Drive, 37th Floor,  
Chicago IL 60606  
TEL: (312) 201-7408 / FAX: (312) 201-0031

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

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



DRAWING LIST

G101 DRAWING LIST

ARCHITECTURAL

- AS100 OVERALL SITE PLAN  
AS101 ARCHITECTURAL SITE PLAN
- A001 ABBREVIATIONS AND GENERAL NOTES  
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EL113 ENLARGED SECOND FLOOR LIGHTING PLAN AREA B  
EL114 ENLARGED THIRD FLOOR LIGHTING PLAN AREA A  
EL115 ENLARGED THIRD FLOOR LIGHTING PLAN AREA B

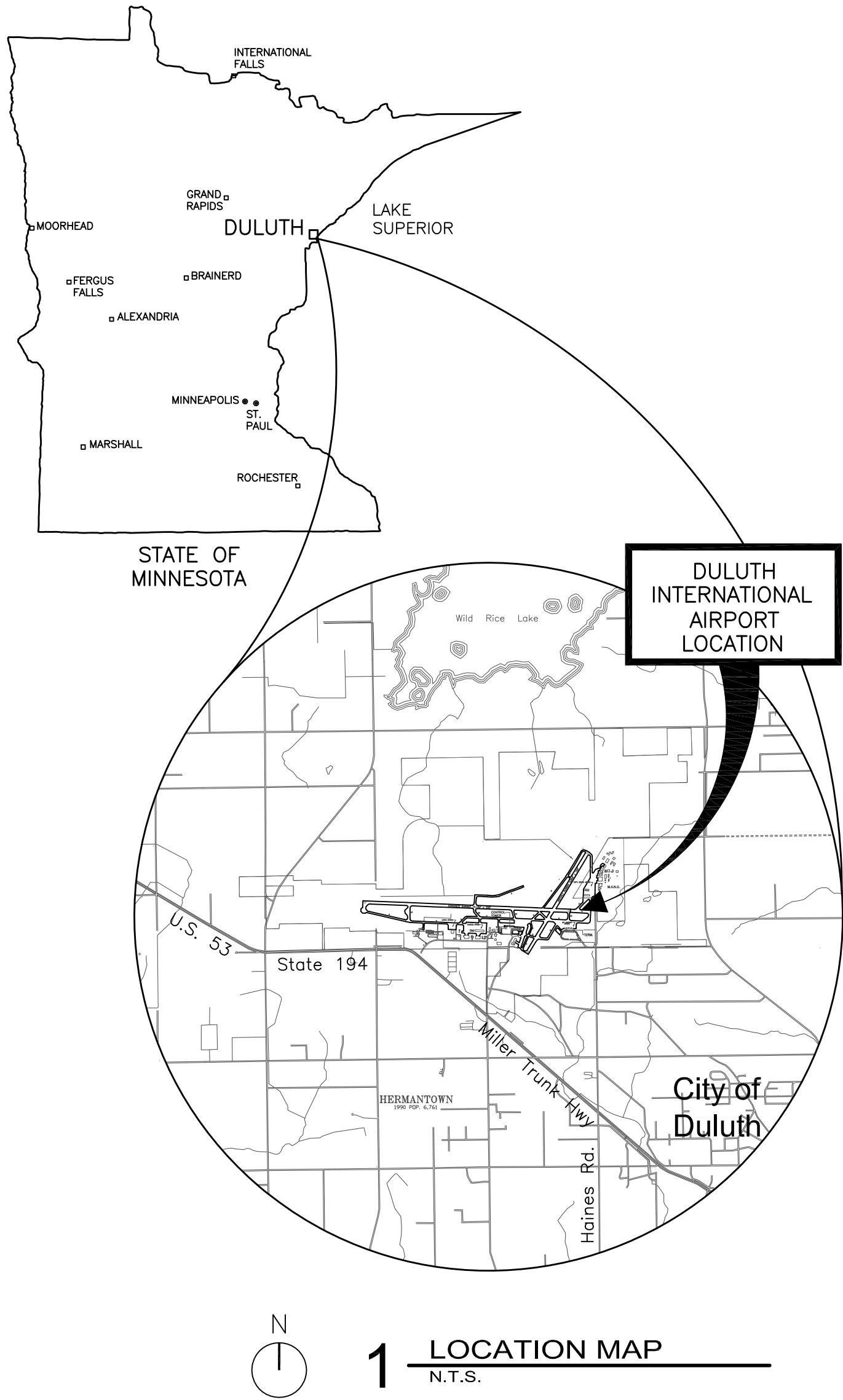
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P402 PLUMBING DETAILS  
P403 PLUMBING DETAILS
- P501 PLUMBING SCHEDULES

GENERAL NOTE:  
FOR ADA STANDARDS, PLUMBING FIXTURES' MOUNTING  
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- Interior Architects:  
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- Structural Engineers:  
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2432 East First Street, Duluth MN 55812  
TEL: (218) 591-5079

ARCHITECTURAL CERTIFICATION  
I hereby certify that the architectural plans,  
specifications or report was prepared by me  
or under my direct supervision and that I am  
a duly licensed Professional Architect under  
the laws of the State of Minnesota.

Print Name: Mark Ip  
Signature: [Signature]  
Date: 06-03-10 Reg. No.: 46001

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
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  
BUILDING  
PERMIT





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**Duluth, Minnesota 55811**  
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**DULUTH  
INTERNATIONAL  
AIRPORT  
DULUTH, MN**

## NEW PASSENGER TERMINAL

## CONSULTANTS

Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 340, Duluth MN 55802  
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Structural Engineers:  
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TEL: (218) 591-5079

**ARCHITECTURAL CERTIFICATION**  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature: 

Date: 06-03-10      Reg. No.: 46001

## REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
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REVIEWED BY: SBS/T

DRAWN BY: MKG/M

DESIGNED BY: SBS/T

**AEP PROJECT NUMBER**

**213-1882-091**

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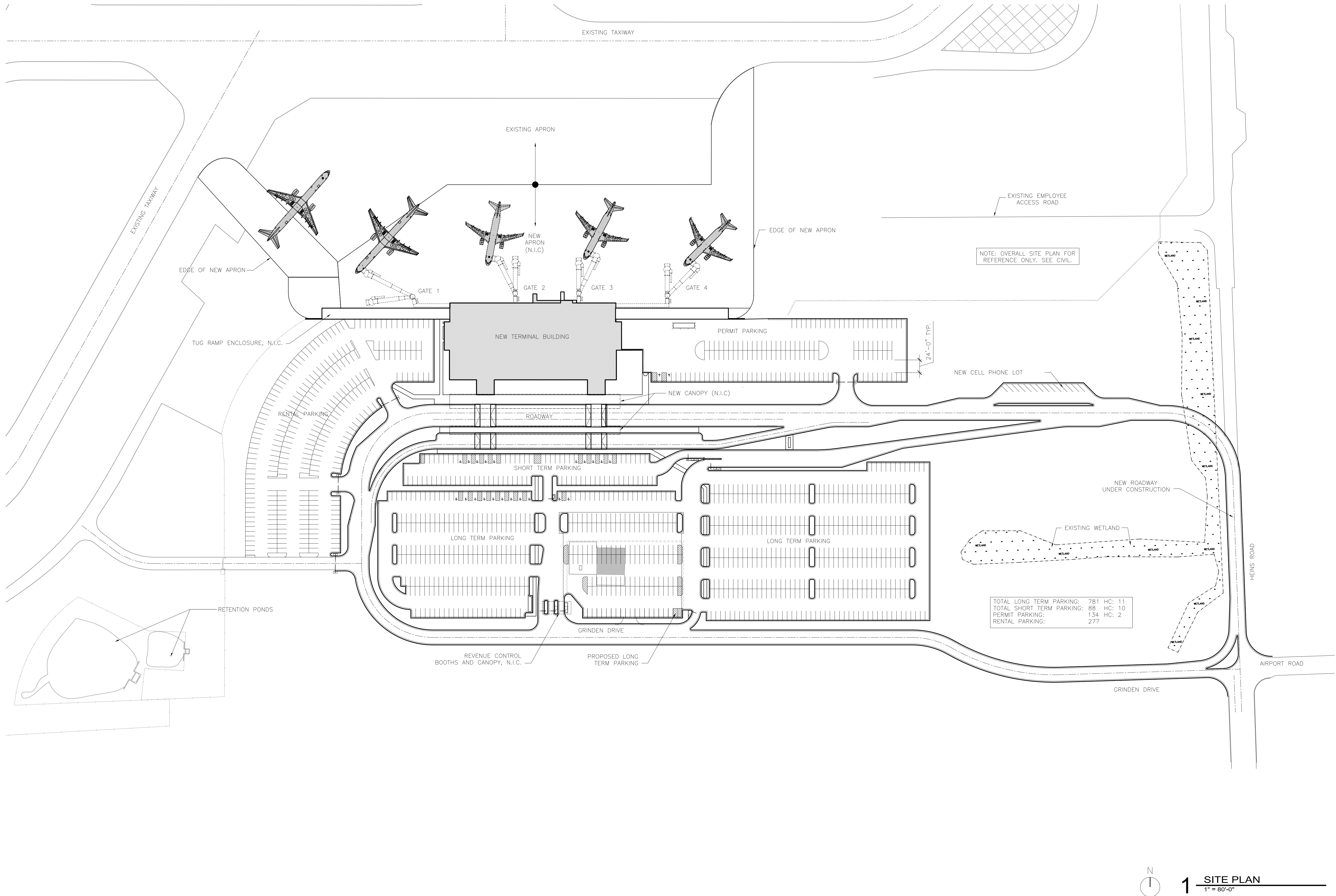
**SHEET TITLE**

# OVERALL SITE PLAN

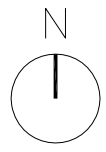
**SHEET NUMBER**

# AS100

# BUILDING PERMIT







1" = 50'-0"



NOTE: SITE PLAN AND SECTION  
FOR REFERENCE ONLY. VERIFY  
ALL CONDITIONS IN FIELD.

1" = 20'-0"



ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	EA.	EACH
A.C.T.	ACOUSTIC CEILING TILE	ELEC.	ELECTRICAL
ADJ.	ADJACENT	E.W.C.	ELECTRICAL WATER COOLER
A.E.S.S.	ARCH- EXPOSED STL. STRUCT.	EL.	ELEVATION
A.H.U.	AIR HANDLER UNIT	ENCL.	ENCLOSURE
ALT.	ALTERNATE	EQ.	EQUAL
ALUM.	ALUMINUM	EQUIP.	EQUIPMENT
APPROX.	APPROXIMATE	EXIST.	EXISTING
ARCH.	ARCHITECTURAL	EXP. JT.	EXPANSION JOINT
ASPH.	ASPHALT	EXP.	EXPOSED
AUTO.	AUTOMATIC	EXT.	EXTERIOR
BM.	BEAM	FIN.	FEET
B.M.	BENCH MARK	FT.	FINISH
BLKG.	BLOCKING	F.E.C.	FIRE EXTINGUISHER CABINET
BD.	BOARD	F.E.	FIRE EXTINGUISHER
BOT.	BOTTOM	F.H.C.	FIRE HOSE CABINET
BLDG.	BUILDING	F.H.R.	FIRE HOSE RACK
C.F.M.F.	COLD-FORMED METAL FRAMING	FIXT.	FIXTURE
C.R.	CARD READER	F.I.D.	FLIGHT INFORMATION DISPLAY
CPT.	CARPET	FL.	FLOOR
CLG.	CEILING	F.D.	FLOOR DRAIN
CL or C.L.	CENTERLINE	FLUOR.	FLUORESCENT
C.T.	CERAMIC TILE	FR.	FRAME
CL.	CLEAR	GA.	GAUGE
CTR.	CENTER	GALV.	GALVANIZED
C.O.	CLEAN OUT	GYP.BD.	GYPSUM BOARD
COL.	COLUMN	HBS.	HANDLING BAGGAGE SYSTEM
COMP.	COMPRESSIBLE	HDW.	HARDWARE
CONC.	CONCRETE	HD.	HEAD
CONC. BLK.	CONCRETE BLOCK	H.P.	HIGH POINT
CMU	CONCRETE MASONRY UNIT	H.P.C.	HIGH PERFORMANCE COATING
CONN.	CONNECTION	HT.	HEIGHT
CONT.	CONTINUOUS	H.M.	HOLLOW METAL
C.J.	CONTROL JOINT	HORIZ.	HORIZONTAL
CORR.	CORRIDOR	I.D.	INCHES
CU.	CUBIC	IN.	INSIDE DIAMETER
C.W.	CURTAINWALL	INSUL.	INSULATION
DEC.	DEGREE	INT.	INTERIOR
DET.	DETAIL	JAN.	JANITOR
DIA.	DIAMETER	JT.	JOINT
DIM.	DIMENSION		
DIST.	DISTANCE		
DIV.	DIVIDER		
DR.	DOOR		
DN.	DOWN		
DWG.	DRAWING		
D.F.	DRINKING FOUNTAIN		

LAM.	LAMINATED	M.O.	MASONRY OPENING
LAV.	LAVATORY	MATL.	MATERIAL
L.F.	LINEAR FEET	MAX.	MAXIMUM
L. PT.	LOW POINT	MECH.	MECHANICAL
		M.H.	MAN HOLE
		MTL.	METAL
		MIN.	MINIMUM
		MISC.	MISCELLANEOUS
		MULL.	MULLION
		M.U.F.I.D.	MULTIPLE USE FLIGHT INFORMATION DISPLAY
		NOM.	NOMINAL
		N.I.C.	NOT IN CONTRACT
		N.T.S.	NOT TO SCALE
		NO.	NUMBER
		O.C.	ON CENTER
		OPG.	OPENING
		OPP.	OPPOSITE
		OZ.	OUNCE
		O.D.	OUTSIDE DIAMETER
		Q.A.	OVERALL
		Q.W.S.J.	OPEN WEB STEEL JOIST
		PR.	PAIR
		P.J.	PANEL JOINT
		PLAS.	PLASTER
		PL.	PLATE
		PLMBG.	PLUMBING
		PLYWD.	PLYWOOD
		P.V.C.	POLYVINYLCHLORIDE
		PT.	POINT
		LBS.	POUNDS
		PSI.	POUNDS PER SQUARE INCH
		P.T.	PRESSURE TREATED
		PRPTY.	PROPERTY
		QTY.	QUANTITY
		Q.T.	QUARRY TILE

R.	RADIUS	SC.	SCALE
RECT.	RECTANGULAR	SCHED.	SCHEDULE
REINF.	REINFORCEMENT	SECT.	SECTION
REQD.	REQUIRED	SHT.	SHEET
REV.	REVISION	SIM.	SIMILAR
R.H.	RIGHT HAND	SQ. FT.	SQUARE FEET
R.D.	ROOF DRAIN	S.S.	STAINLESS STEEL
RM.	ROOM	STD.	STANDARD
		STA.	STATION
		STL.	STEEL
		STRUCT.	STRUCTURAL
		SUSP.	SUSPENDED
		SYM.	SYMBOL
		TEL.	TELEPHONE
		THK.	THICKNESS
		TSA	TRANSPORTATION SECURITY ADMINISTRATION
		TYP.	TYPICAL
		U.L.	UNDERWRITERS LABORATORIES
		U.O.N.	UNLESS OTHERWISE NOTED
		V.B.	VAPOR BARRIER
		VERT.	VERTICAL
		V.C.T.	VINYL COMPOSITION TILE
		V.W.C.	VINYL WALL COVERING
		VOL.	VOLUME
		W.H.I.	WARNOCK HERSEY INTERNATIONAL
		W.C.	WATER CLOSET
		WT.	WEIGHT
		W.W.F.	WELDED WIRE FABRIC
		WD.	WOOD
		W.P.	WORKING POINT

PROJECT GENERAL NOTES:

- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES.
- REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, STRUCTURAL AND ELECTRICAL DRAWINGS FOR COORDINATION OF WORK.
- EACH TRADE CONTRACTOR SHALL VISIT THE SITE AND BECOME KNOWLEDGEABLE OF CONDITIONS THEREIN. EACH TRADE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL THE REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY CONDITIONS REQUIRING INFORMATION BEFORE PROCEEDING WITH THE WORK. EXISTING BUILDING DRAWINGS ARE AVAILABLE FROM THE OWNER FOR REVIEW. THE DOCUMENTS AVAILABLE MAY NOT BE REPRESENTATIVE OF ALL AS-BUILT CONDITIONS
- THE TRADE CONTRACTORS SHALL PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO ALTERATION AND CONSTRUCTION OPERATIONS AND REPAIR OR REPLACE ELEMENTS DAMAGED DURING THE PROJECT.
- ANY UTILITY SHUT-OFFS AS REQUIRED BY THE CONTRACTOR FOR COMPLETION OF THE WORK SUCH AS ELECTRICAL, WATER, SEWER, TELEPHONE, GAS ETC. MUST BE SCHEDULED WITH THE OWNER 72 HOURS PRIOR TO COMMENCING THE WORK. ALL WORK TO BE DONE IN OFF HOURS OR AT LOW-USE HOURS AS APPROVED BY THE OWNER.
- DRAWINGS ARE TO BE ISSUED TO THE SUBCONTRACTORS IN COMPLETE SETS SO THAT THE EXTENT AND COORDINATION OF THE WORK IS MADE POSSIBLE.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED.
- WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
- DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS SHALL BE VERIFIED ON THE SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- UNLESS NOTED OTHERWISE, ALL WALLS AND PARTITIONS ARE DIMENSIONED TO THE FINISH FACE OF THE METAL FRAMING OR FACE OF C.M.U.
- UNLESS NOTED OTHERWISE, ALL FASTENERS AND FASTENING DEVICES ARE TO BE CONCEALED IN ALL FINISHED SPACES.
- ANY PIPING, DUCTS, CONDUITS, ETC. THAT PENETRATE FIRE-RATED WALLS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE INTEGRITY OF THE FLOOR OR WALL. FIRE STOP RATINGS OF WALLS WHERE PENETRATIONS OCCUR. PROVIDE FIRE DAMPERS IN DUCTS PENETRATING FIRE-RATED WALLS TO MEET THE APPLICABLE BUILDING CODES. REFER TO ALL DRAWINGS FOR EXTENT AND FIRE RATING REQUIREMENTS. THE FIRE RATING OF THE FIRESTOP MUST BE EQUAL TO OR GREATER TO THE MINIMUM RATING OF THE FLOOR, ROOF OR WALL ASSEMBLY. ALL FIREPROOFING REPLACEMENT OR INSTALLATION TO BE COMPLETED BY CONTRACTOR PERFORMING THE PENETRATION.
- ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION WHICH ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED TESTED ASSEMBLIES, SHALL BE TIGHT AND SHALL PREVENT THE PASSAGE OF SMOKE AND FLAME.
- WHERE THE FIRE RATING OF WALLS ARE NOTED ON THE DRAWINGS, THE FIRE RATING SHALL APPLY TO THE ENTIRE PERIMETER ENCLOSURE OF THE ROOM OR SPACE FOR THE FULL LENGTH AND HEIGHT OF AREAS BEING SEPARATED, EXTENDING TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER BY GASKETS OR COATINGS OR BOTH TO AVOID GALVANIC CORROSION ACTION.
- ALL FERROUS METAL WORK LOCATED ON THE EXTERIOR OR IN NON CONDITIONED SPACES (INTERIOR) SHALL BE HOT-DIPPED GALVANIZED (MINIMUM G-90 COATING).
- THE EXTENT OF THE WORK SHOWN ON THE PLANS AND DETAILS REFLECTS THE BEST JUDGMENT OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND ADVISE THE ARCHITECT IN WRITING OF ANY SITUATION THAT WOULD NOT ALLOW HIM TO PROCEED ON THE BASIS OF THESE DOCUMENTS.
- THE ARCHITECT/ENGINEER SELECTION OF MATERIALS AND DETAILS DOES NOT RELIEVE THE CONTRACTOR FROM VERIFYING WITH THE MATERIAL SUPPLIERS THAT THE PROPOSED MATERIALS ARE CORRECT AND PROPER FOR THE INTENDED APPLICATION AND USE.
- THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF THE POWER/DATA/COMMUNICATION OUTLETS.
- ALL WORK SHALL CONFORM WITH MINNESOTA ACCESSIBILITY CODE AND THE IAC (SECTIONS 400.310(s) AND 400.310(u)).



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ARCHITECTURAL CERTIFICATION  
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Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
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  
AND  
GENERAL NOTES




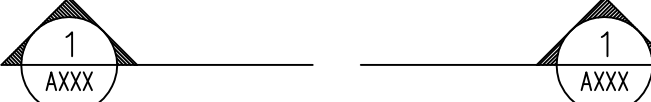



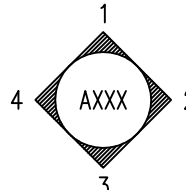

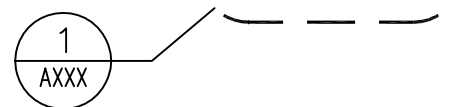

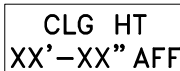
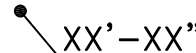
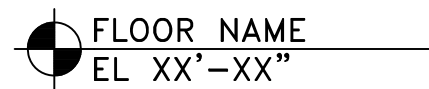



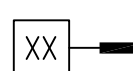

SHEET NUMBER  
A001  
BUILDING  
PERMIT



## 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 BATT.			
TERRA COTTA GLAZED		INSULATION RIGID BOARD			

## SYMBOLS LEGEND

ITEM	SYMBOL	ITEM	SYMBOL WITH SHEET DESIGNATION
DRAWING TITLE		PARTIAL BUILDING SECTION	
ROOM NUMBER		FULL BUILDING SECTION	
ROOM NUMBER WITH KT/BT		EXTERIOR ELEVATION	
MATERIAL CHANGE		INTERIOR ELEVATION	
F F & E		DETAIL	
ELEVATION CHANGE			
INTERIOR ELEVATION			
SPOT ELEVATION			
ELEVATION REFERENCE VERTICAL			
DOOR NUMBER			
WINDOW/ GLAZING NUMBER			
NOTE NUMBER			
WALL TYPE			
NORTH ARROW			

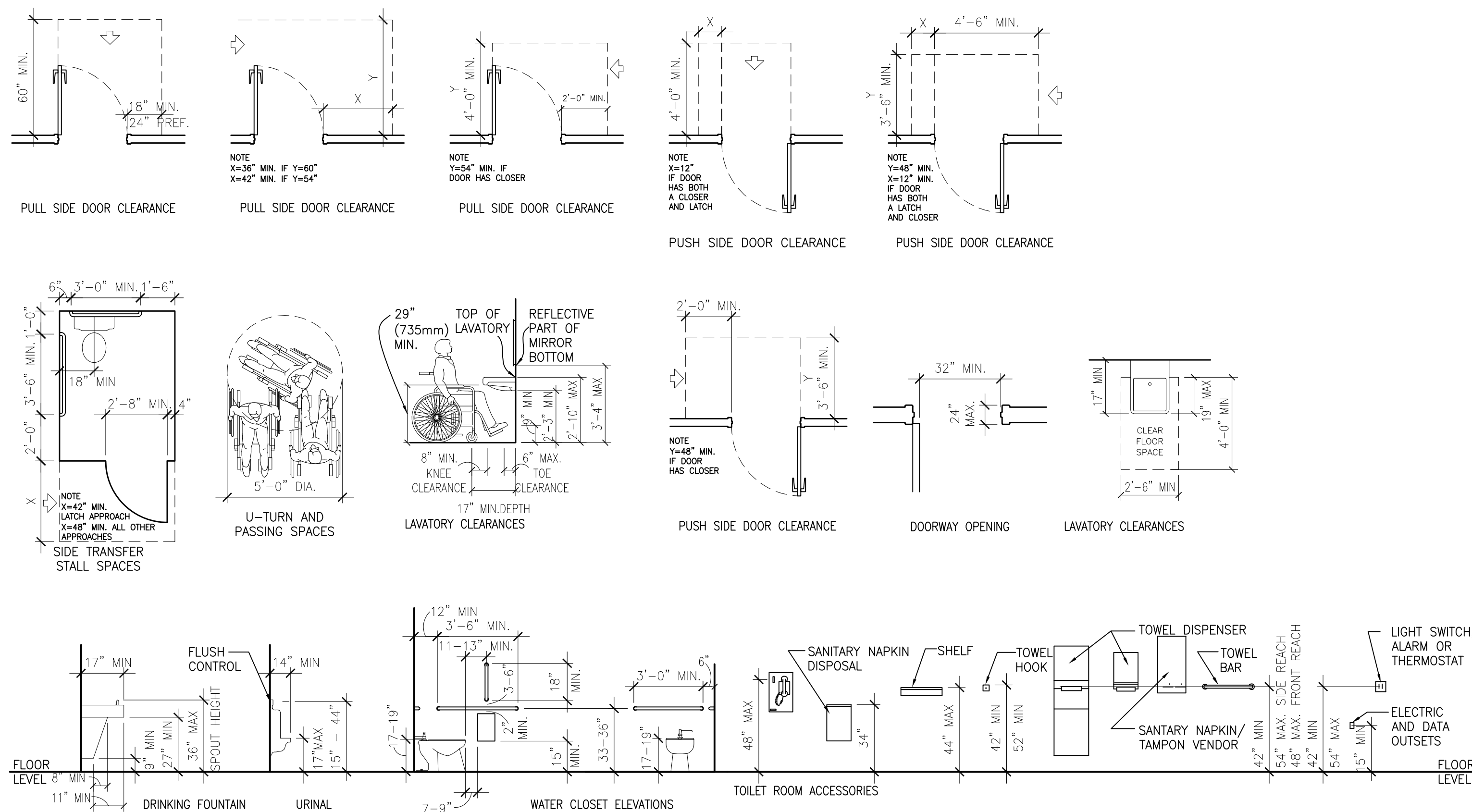
## ACCESSIBILITY NOTES

## 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 SHALL 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 COMPLIANCE SHALL BE INSTALLED AS REQUIRED PER IAC 400.310(u).
8. TOILET ROOMS SERVING PUBLIC AREAS (I.E., LOBBIES, CONCOURSE, ETC.) WILL FULLY COMPLY WITH IAC 400.310(n).
9. REFER TO CHAPTER 1341 MN BUILDING CODE

## ACCESSIBILITY CLEARANCES



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## NEW PASSENGER TERMINAL

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Signature:

Date: 06-03-10      Reg. No.: 46001

## REVISIONS

[illegible]

**DATE ISSUED: 08-16-10**

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

**AEP PROJECT NUMBER**

**213-1882-091**

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**SHEET TITLE**

## SYMBOLS AND ACCESSIBILITY CLEARANCES

**SHEET NUMBER**

# A002

# BUILDING PERMIT



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	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

**DATE ISSUED: 08-16-10**  
**REVIEWED BY: SBS/TC**  
**DRAWN BY: MKG/MI**  
**DESIGNED BY: SBS/TC**

**AEP PROJECT NUMBER**

**213-1882-091**

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**SHEET TITLE**

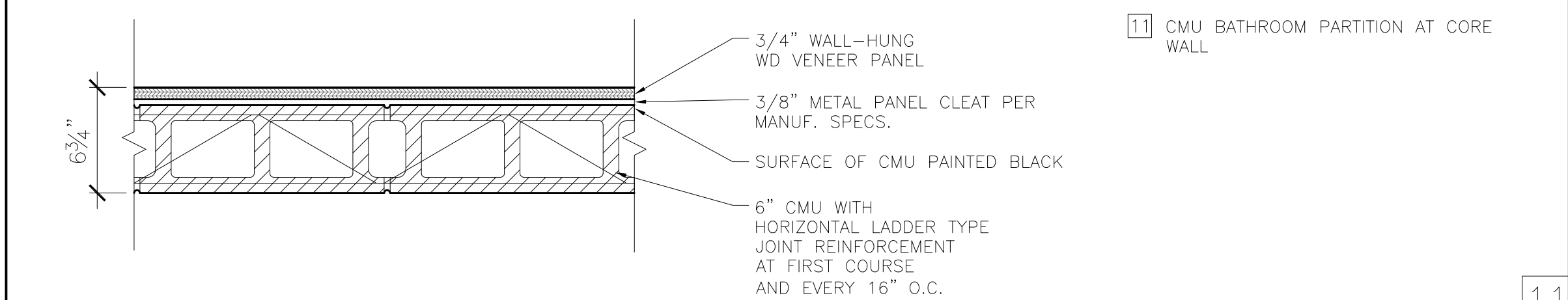
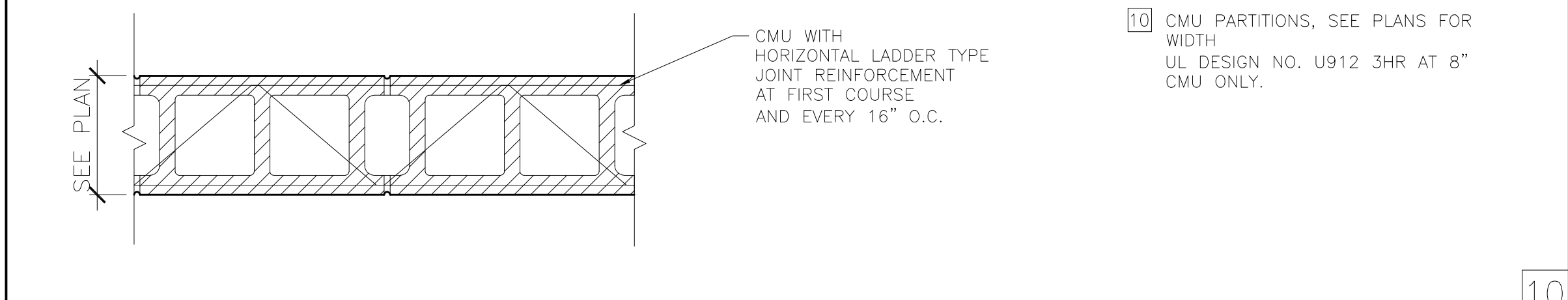
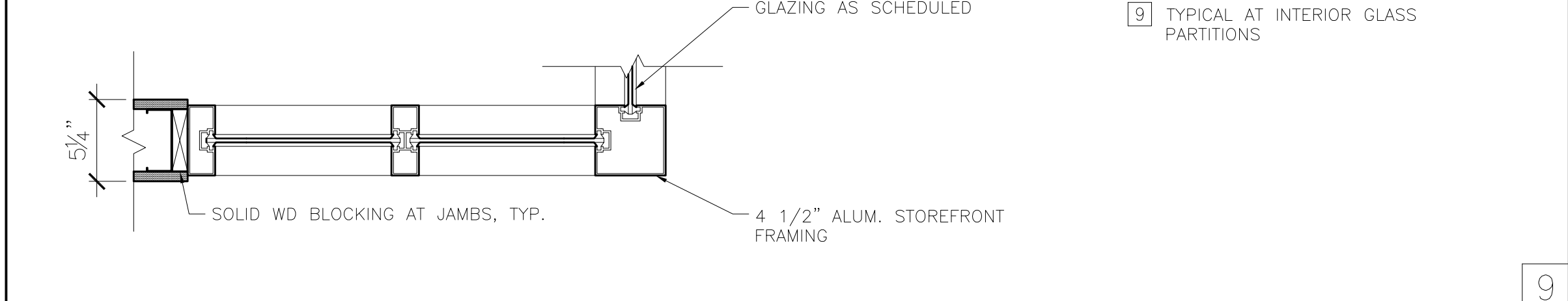
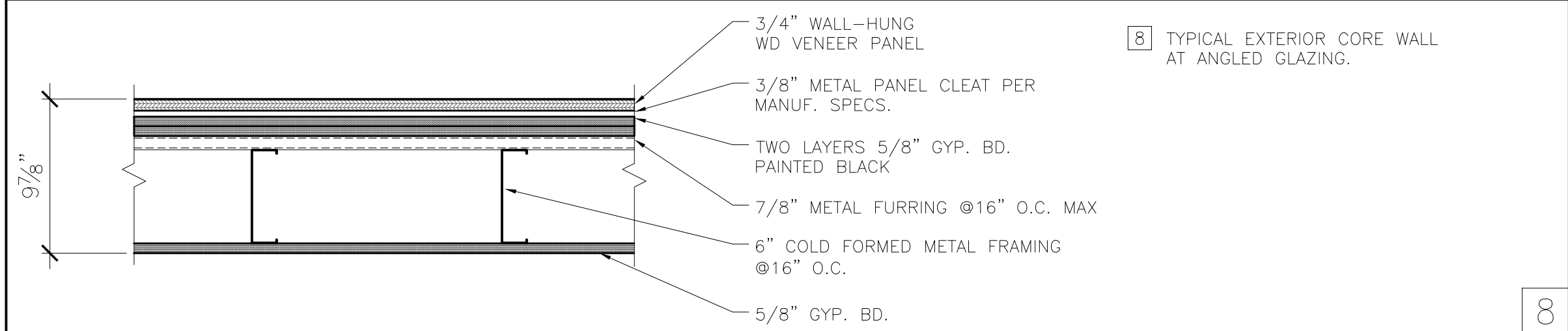
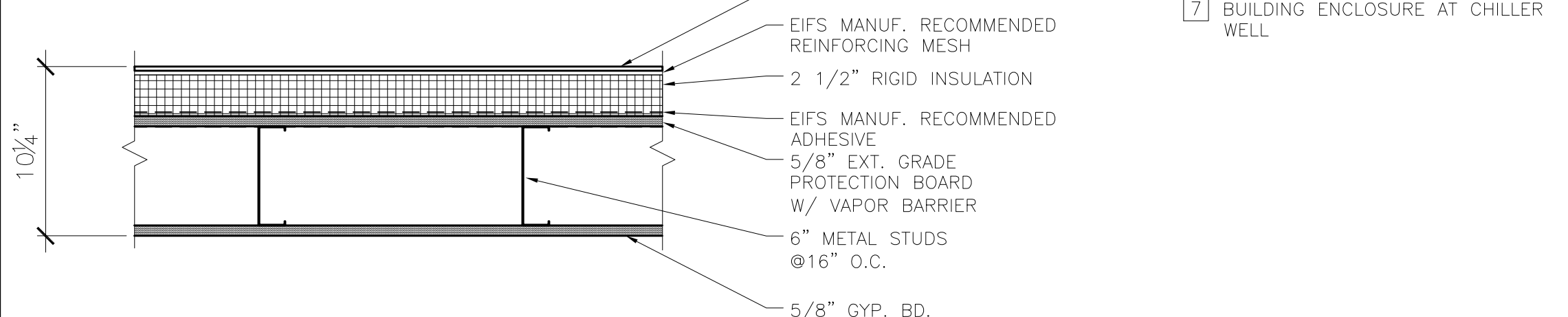
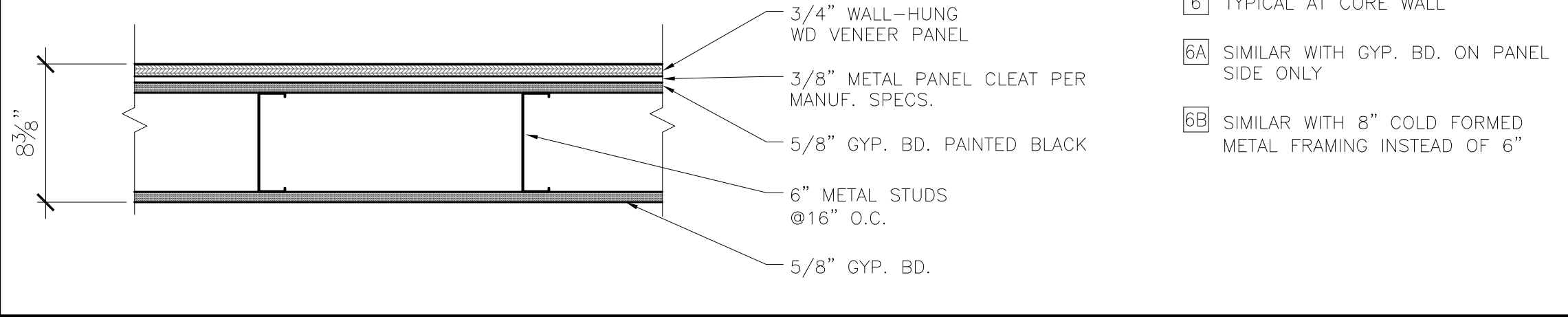
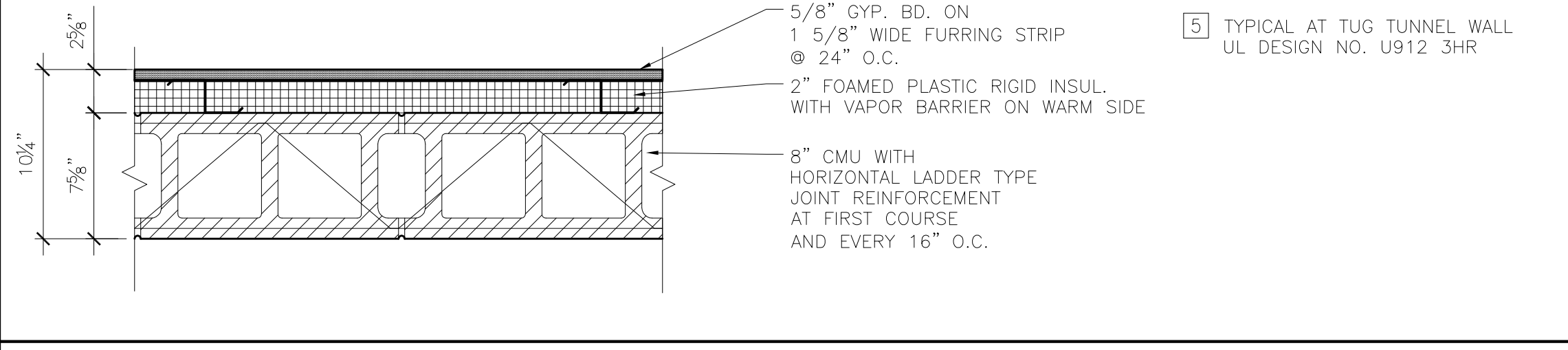
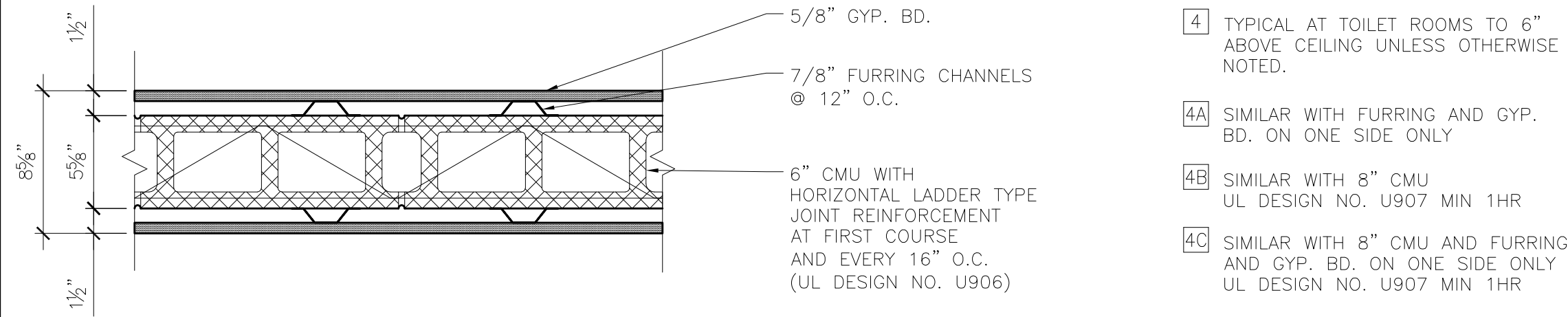
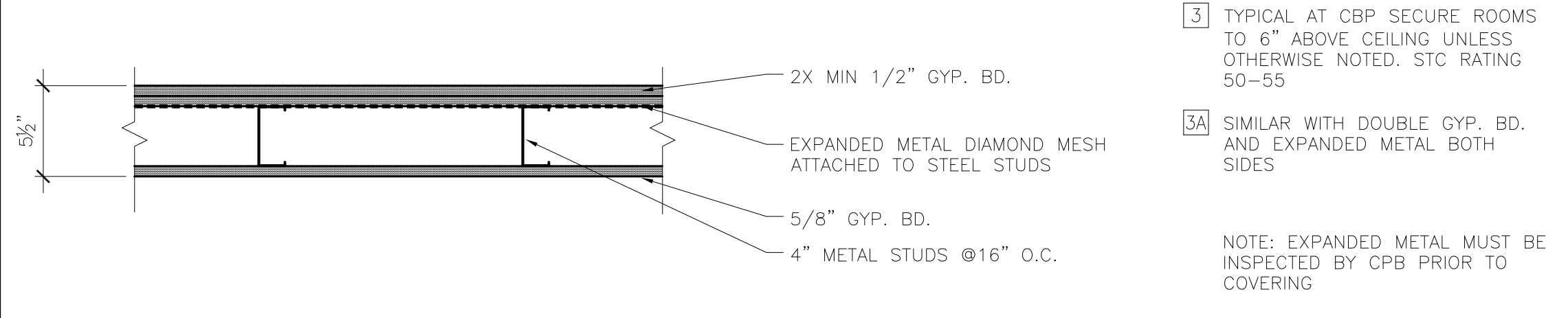
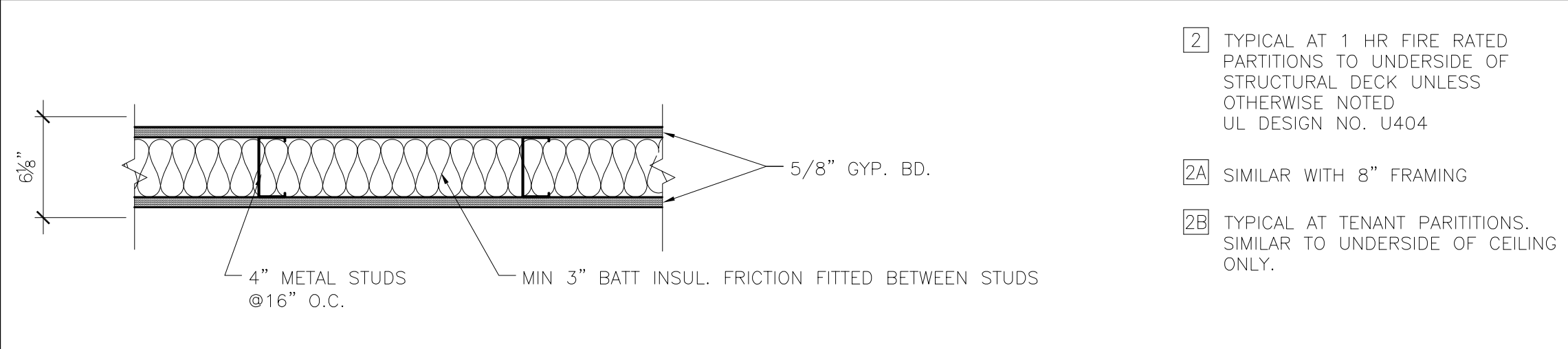
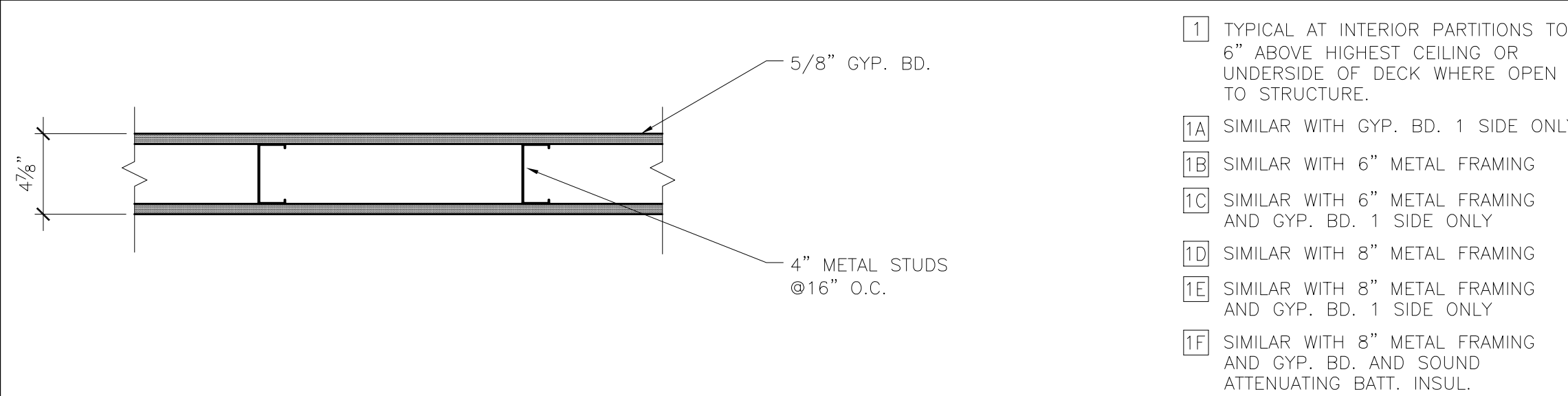
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TYPES**

**SHEET NUMBER**

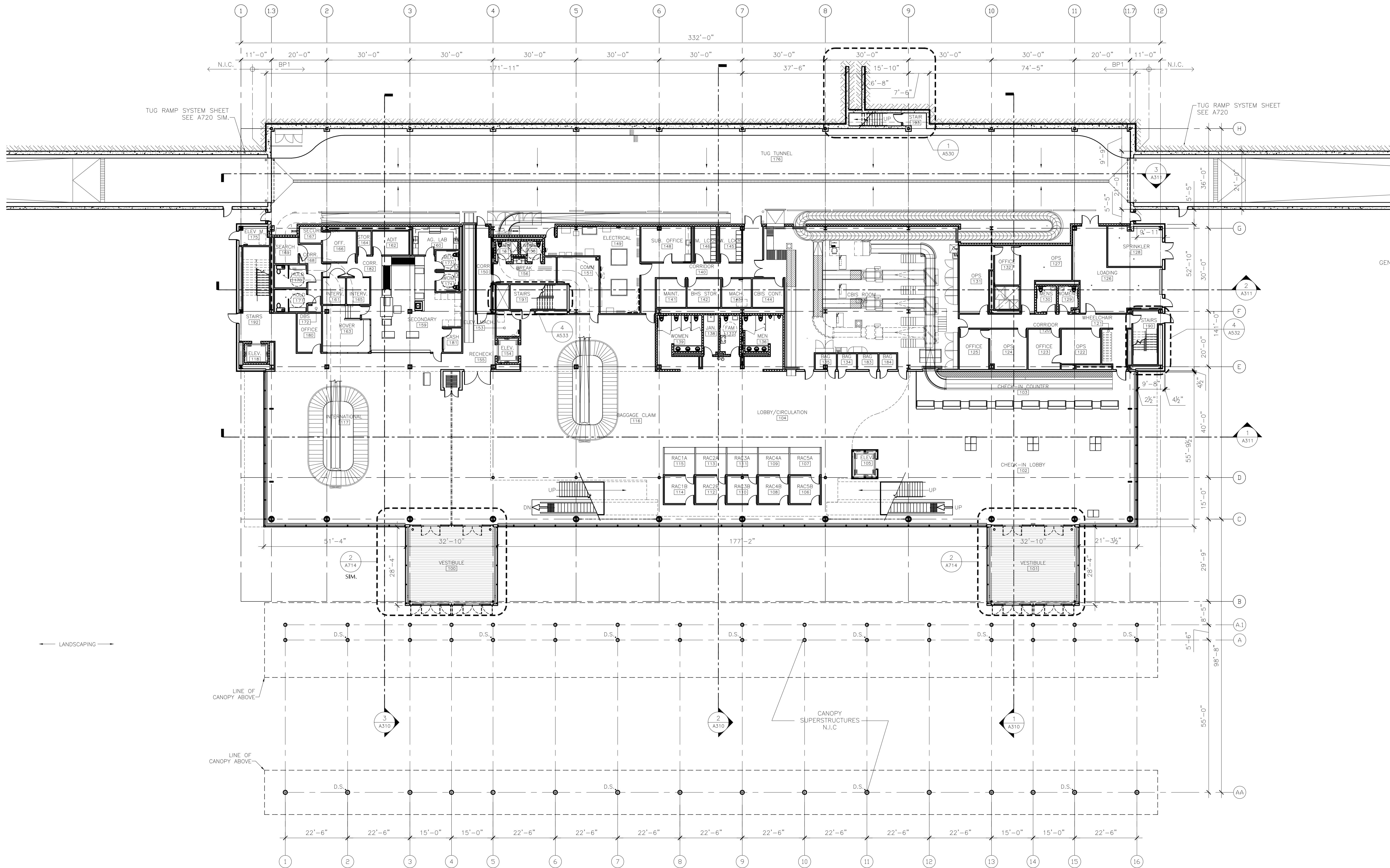
**A003**

**BUILDING  
PERMIT**

PARTITION TYPES







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**DULUTH AIRPORT AUTHORITY**

**DULUTH INTERNATIONAL AIRPORT  
DULUTH, MN**

**NEW PASSENGER TERMINAL**

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DRAWN BY: MKG/MI

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AEP PROJECT NUMBER

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SHEET TITLE

**OVERALL  
FIRST FLOOR  
PLAN**

SHEET NUMBER

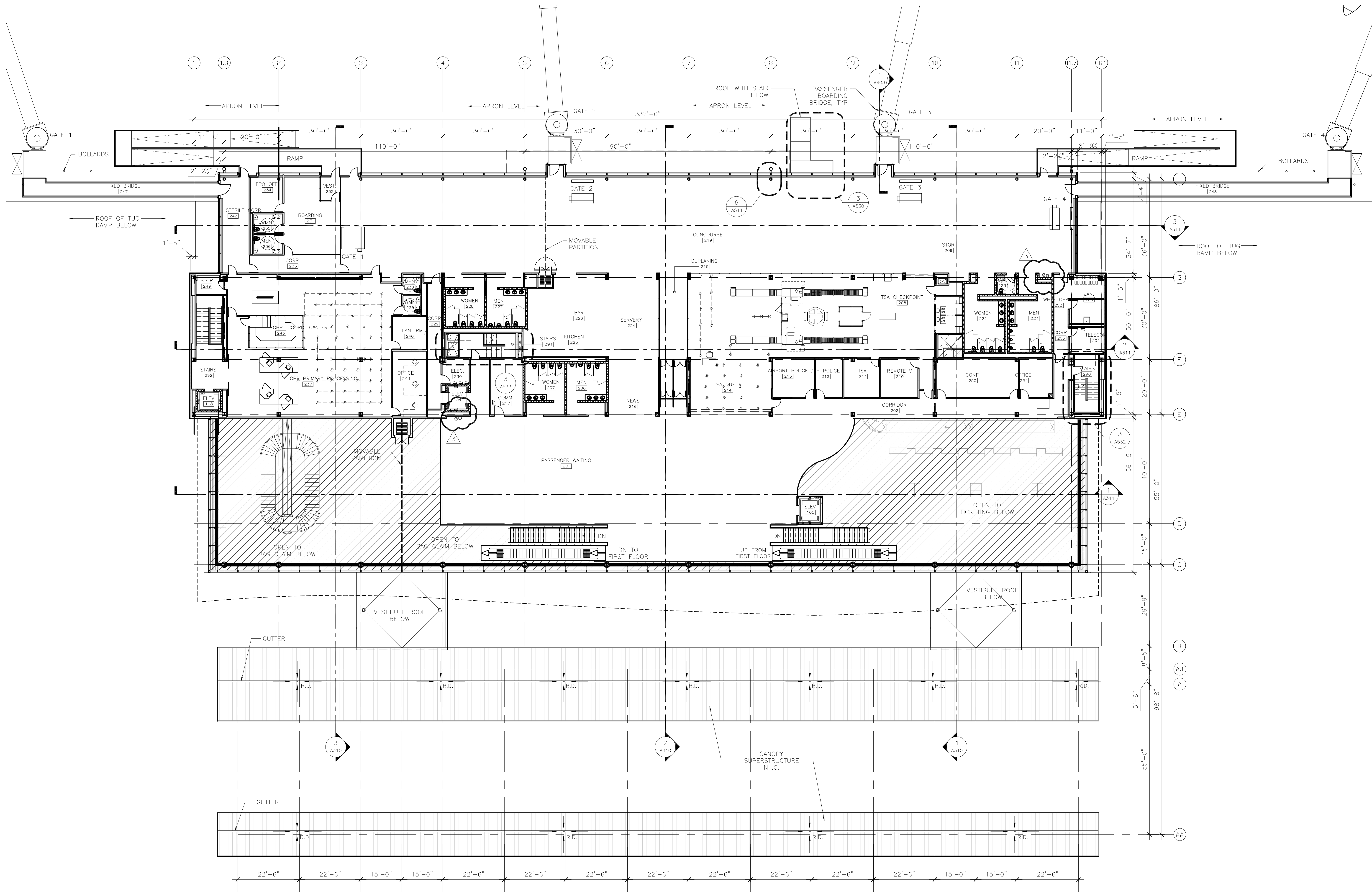
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**BUILDING  
PERMIT**

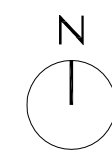


**1** OVERALL FIRST FLOOR PLAN  
1/16" = 1'-0"





NOTE: IN FLOOR AIR  
DISTRIBUTION SYSTEM N.I.C.



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

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SHEET TITLE

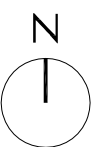
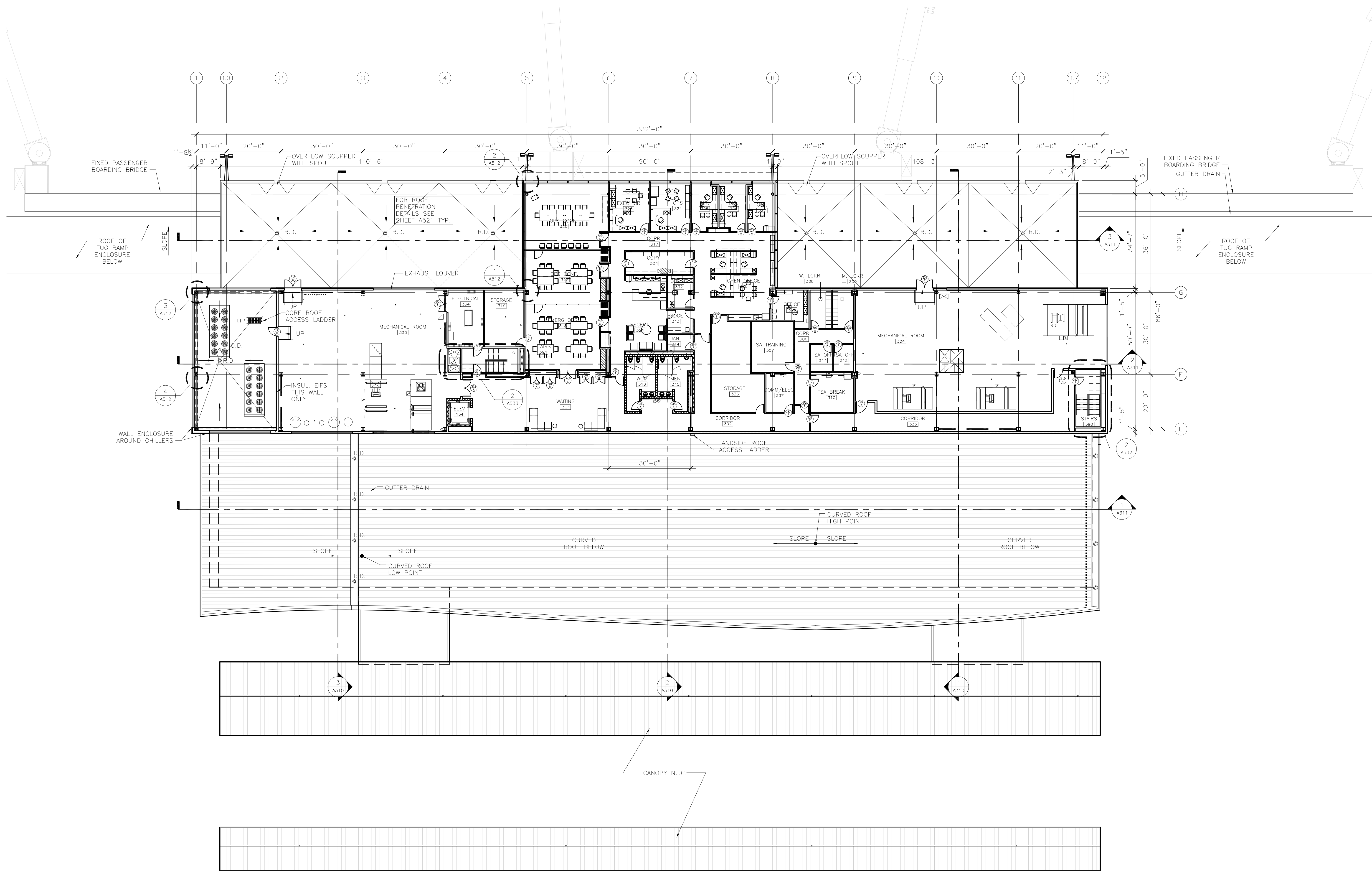
**OVERALL  
SECOND FLOOR  
PLAN**

SHEET NUMBER

**A102**

**BUILDING  
PERMIT**





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



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Structural Engineers:  
**MBJ CONSULTING ENG.**  
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M/E/P/F Engineers:  
**COSENTINI ASSOCIATES INC.**  
1 South Wacker Drive, 37th Floor, Chicago IL 60606  
TEL: (312) 201-7406 / FAX: (312) 201-0031  
  
Baggage Handling Systems Consultants:  
**BNP ASSOCIATES INC.**  
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TEL: (203) 792-3000 / FAX: (203) 792-4900  
  
Landscaping Consultants:  
**APPOLD DESIGN**  
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TEL: (218) 591-5079

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I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip  
Signature:   
Date: 06-03-10 Reg. No.: 46001

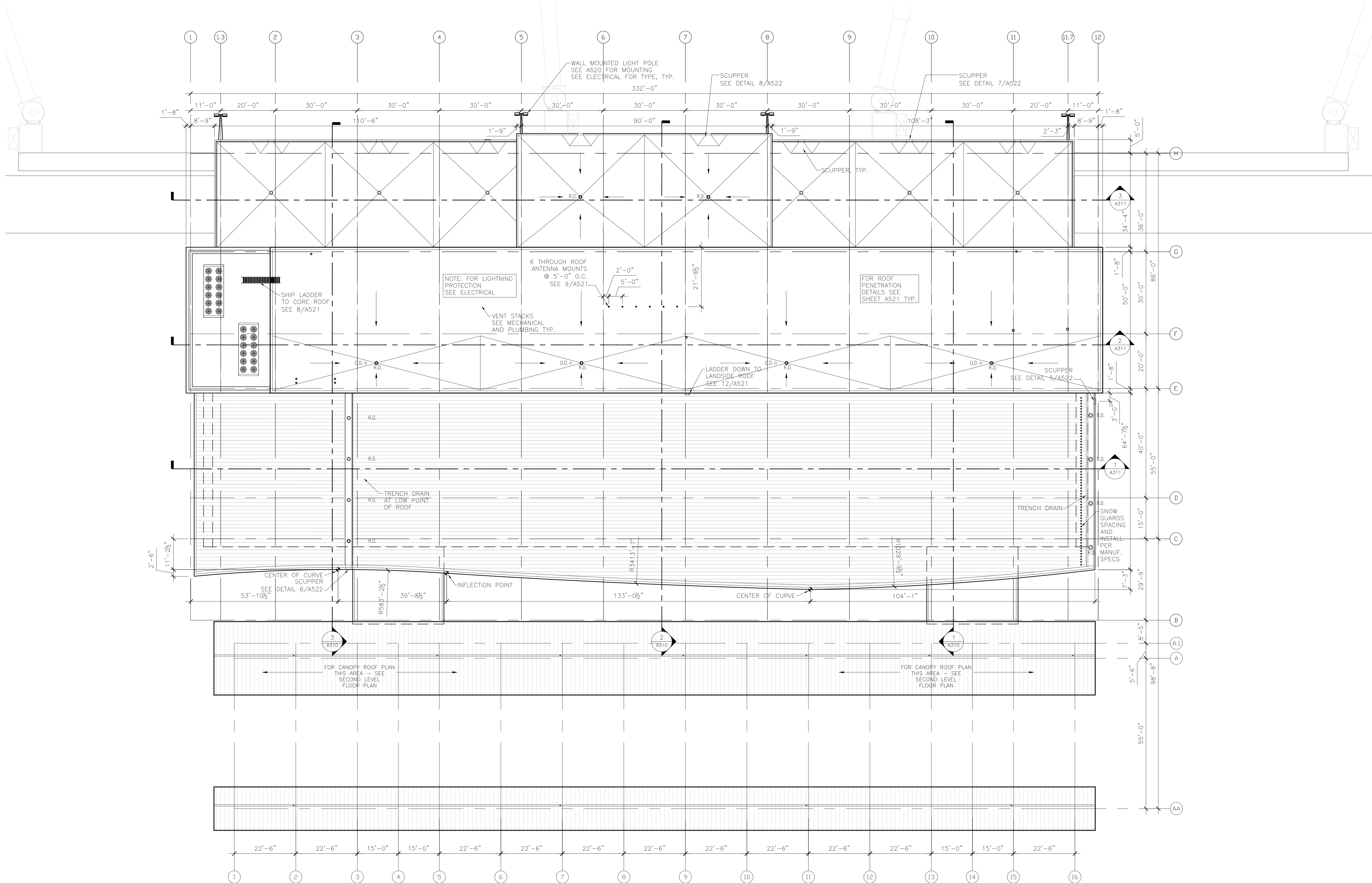
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NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC  
AEP PROJECT NUMBER  
213-1882-091  
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SHEET TITLE  
**OVERALL  
THIRD FLOOR  
PLAN**

SHEET NUMBER  
**A103**  
**BUILDING  
PERMIT**





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

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REVISIONS

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1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

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

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SHEET TITLE  
**OVERALL  
ROOF PLAN**

SHEET NUMBER

**A104**

**BUILDING  
PERMIT**





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Signature:

Date: 06-03-10      Reg. No.: 46001

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	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

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AEP PROJECT NUMBER

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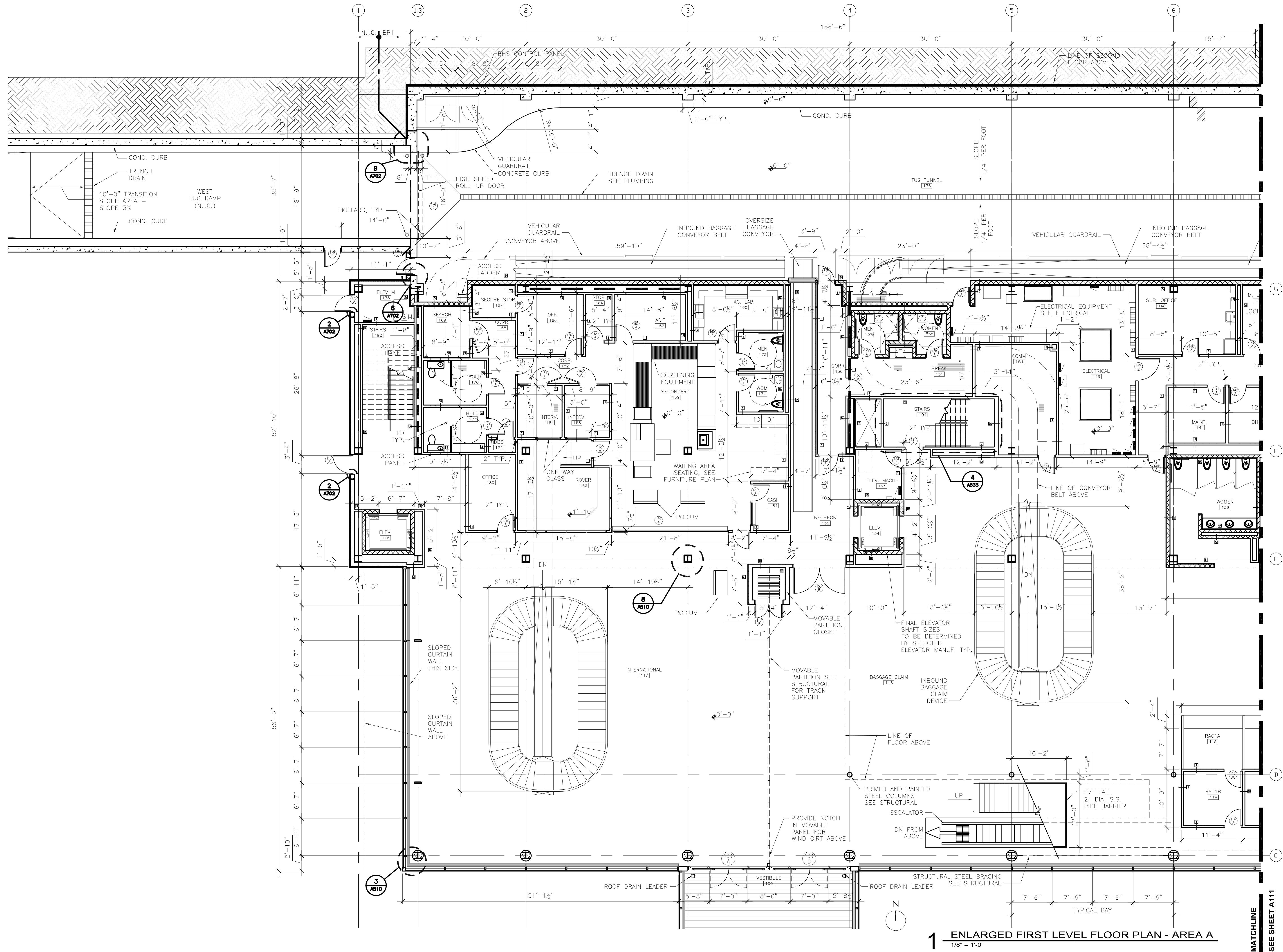
**SHEET TITLE**

**ENLARGED  
FIRST FLOOR  
PLAN AREA A**

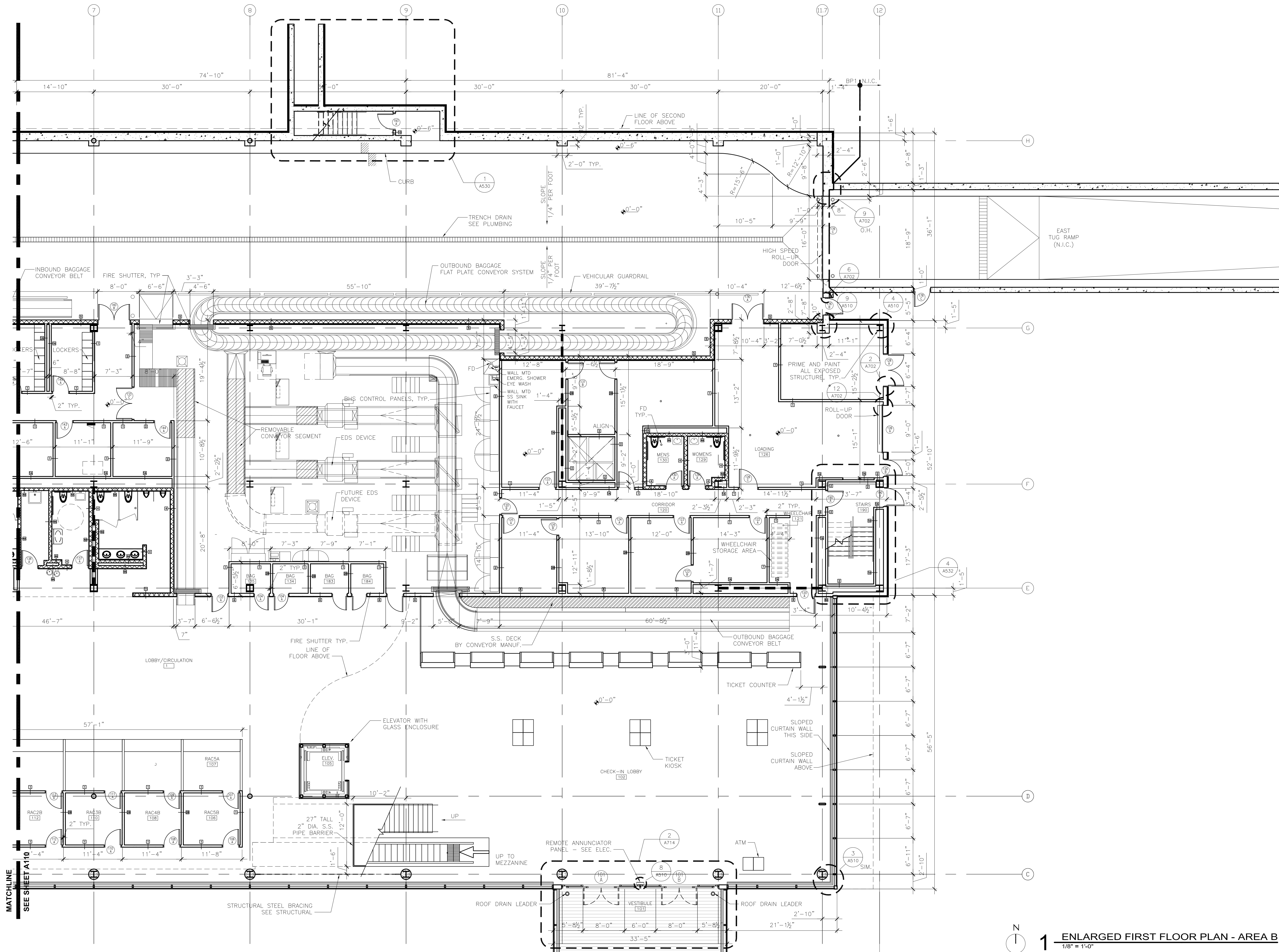
**SHEET NUMBER**

# A110

# BUILDING PERMIT



Drawing: T:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A110 First Floor Area A.dwg Plotted on: 8/13/2010 12:02 PM Plotted by: Godzina, Ma



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DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

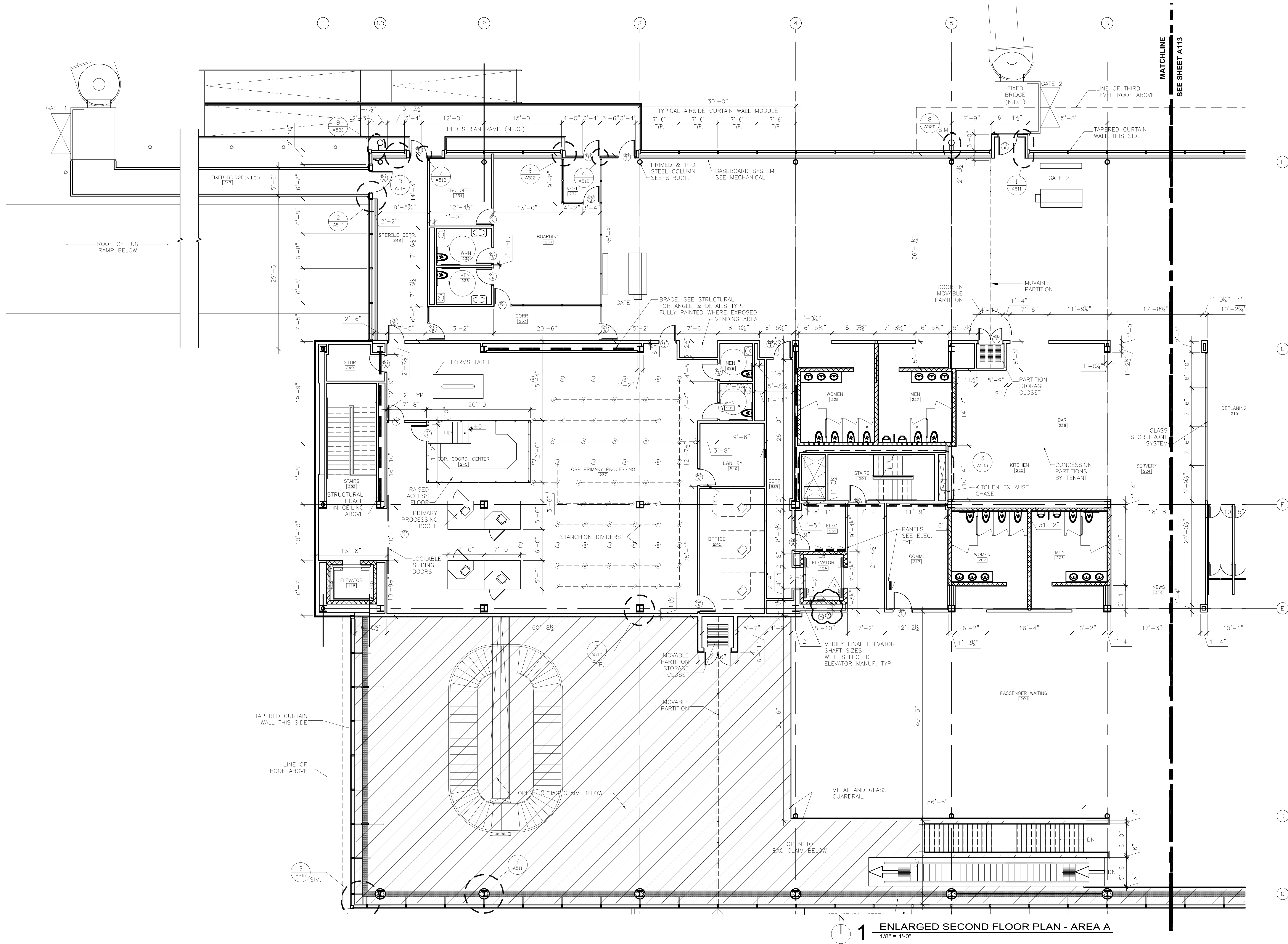
AEP PROJECT NUMBER  
**213-1882-091**  
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SHEET TITLE  
**ENLARGED FIRST FLOOR PLAN AREA B**

SHEET NUMBER

**A111**  
**BUILDING PERMIT**





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DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

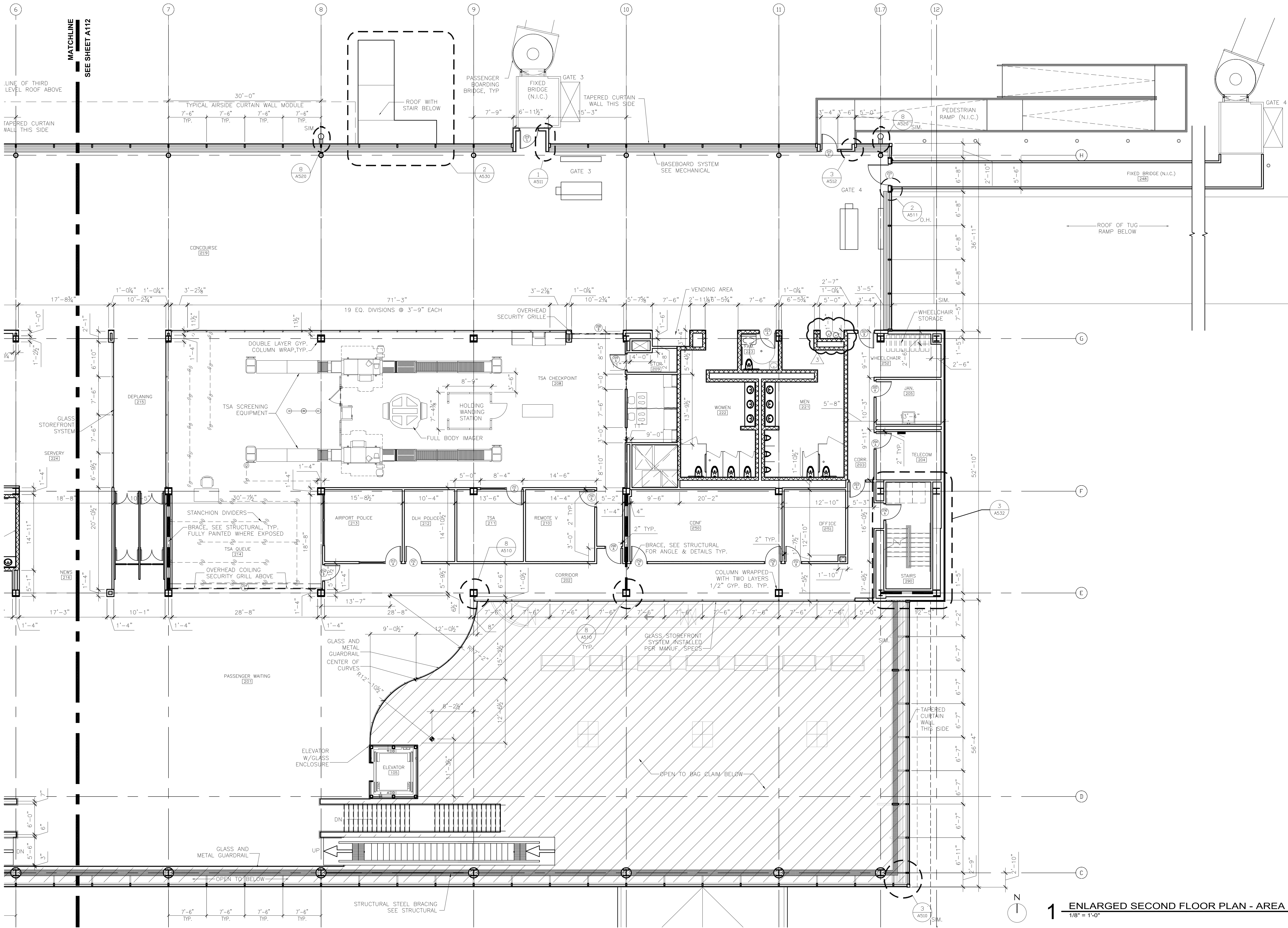
AEP PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**ENLARGED SECOND FLOOR PLAN AREA A**

**SHEET NUMBER**

**A112**

**BUILDING PERMIT**



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4	BUILDING PERMIT	8.16.10

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DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

**ENLARGED SECOND FLOOR PLAN AREA B**

SHEET NUMBER

**A113**

**BUILDING PERMIT**



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Interior Architects:  
**SJA ARCHITECTS**  
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Structural Engineers:  
**MBJ CONSULTING ENG.**  
501 Lake Avenue South, Suite 300, Duluth MN 55802  
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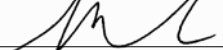
M/E/P/F Engineers:  
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1 South Wacker Drive, 37th Floor, Chicago IL 60606  
TEL: (312) 201-7406 / FAX: (312) 201-0031

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Signature: 

Date: 06-03-10 Reg. No.: 46001

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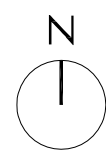
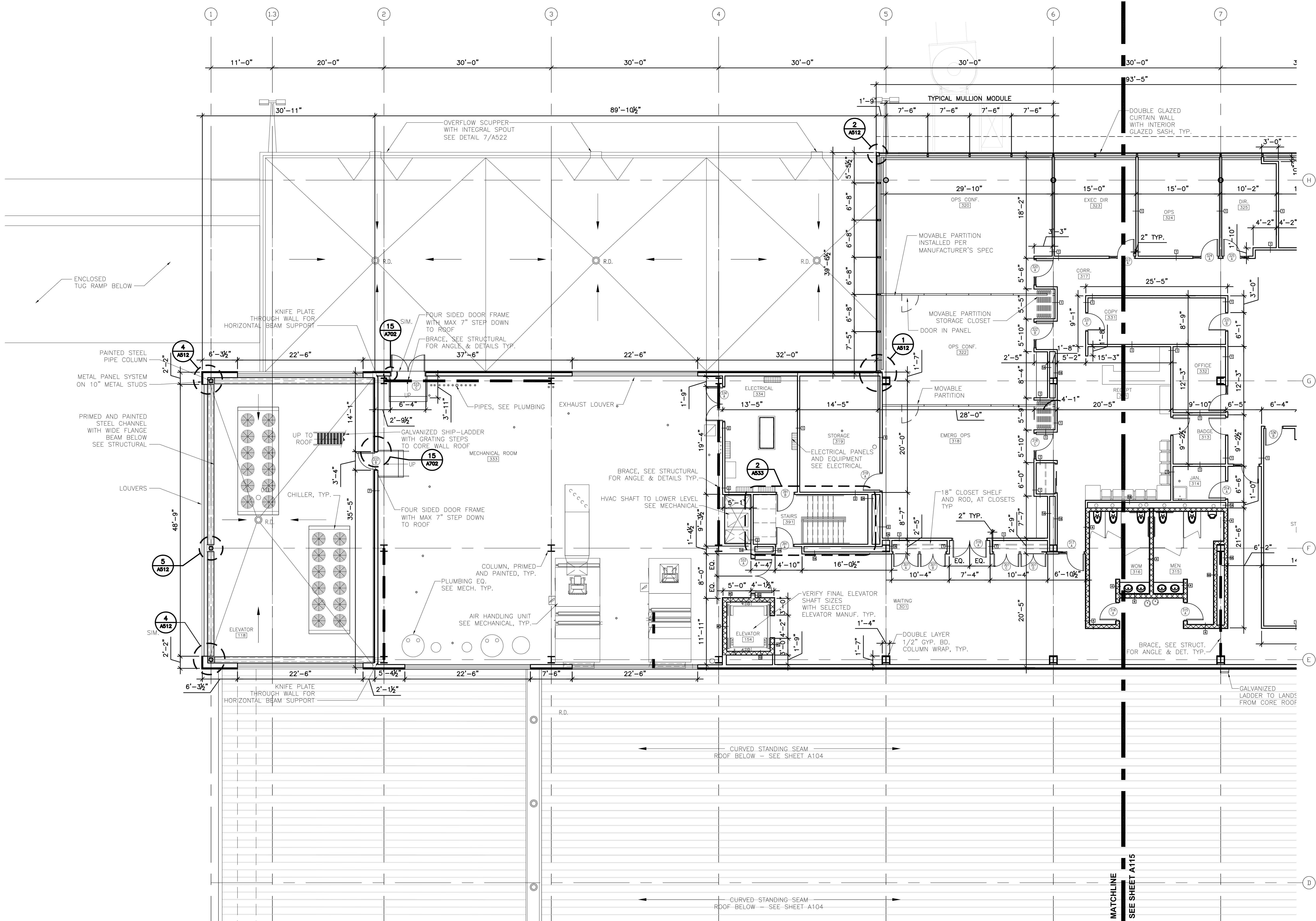
SHEET TITLE

**ENLARGED  
THIRD FLOOR  
PLAN AREA A**

SHEET NUMBER

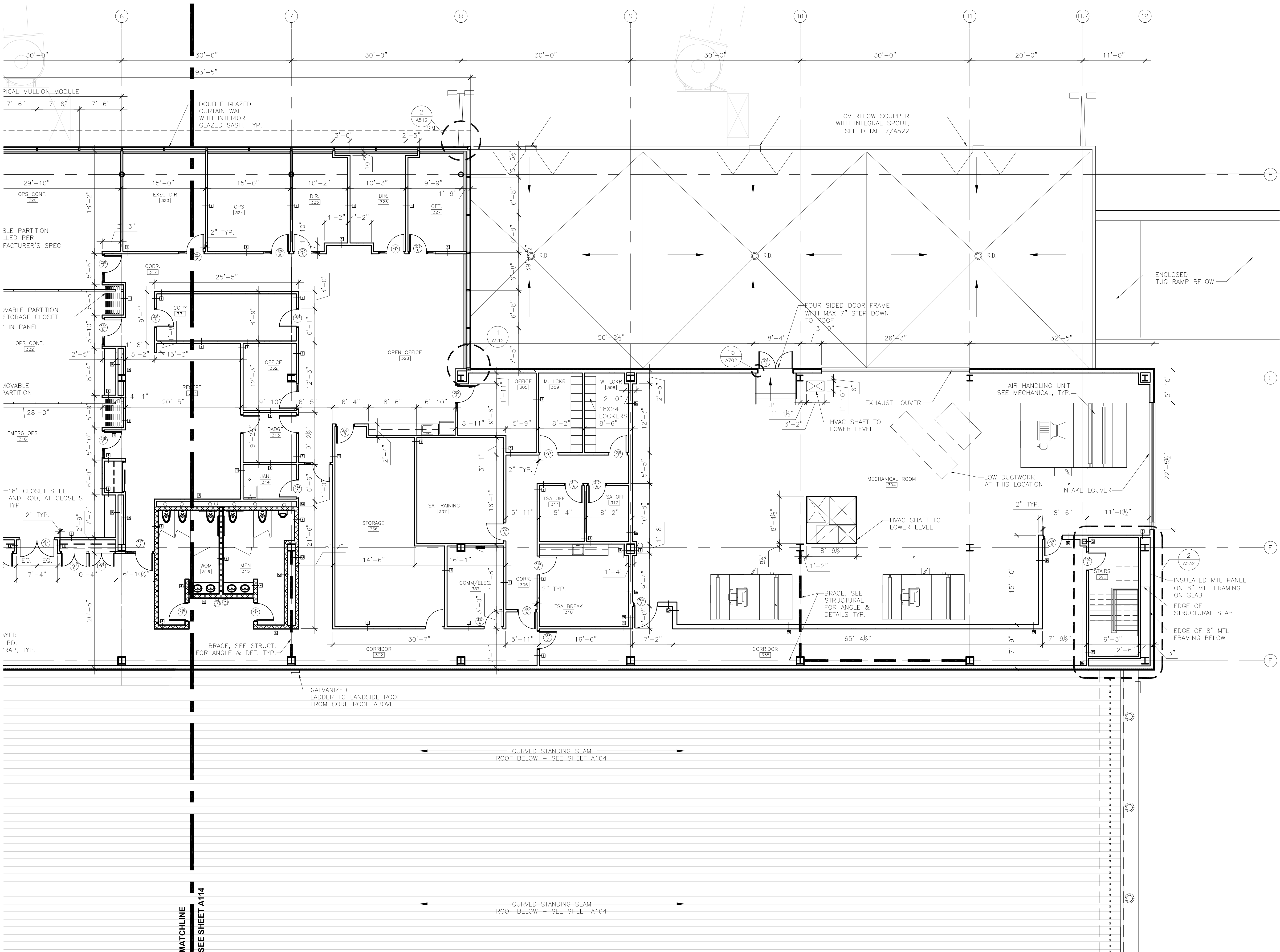
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**BUILDING  
PERMIT**

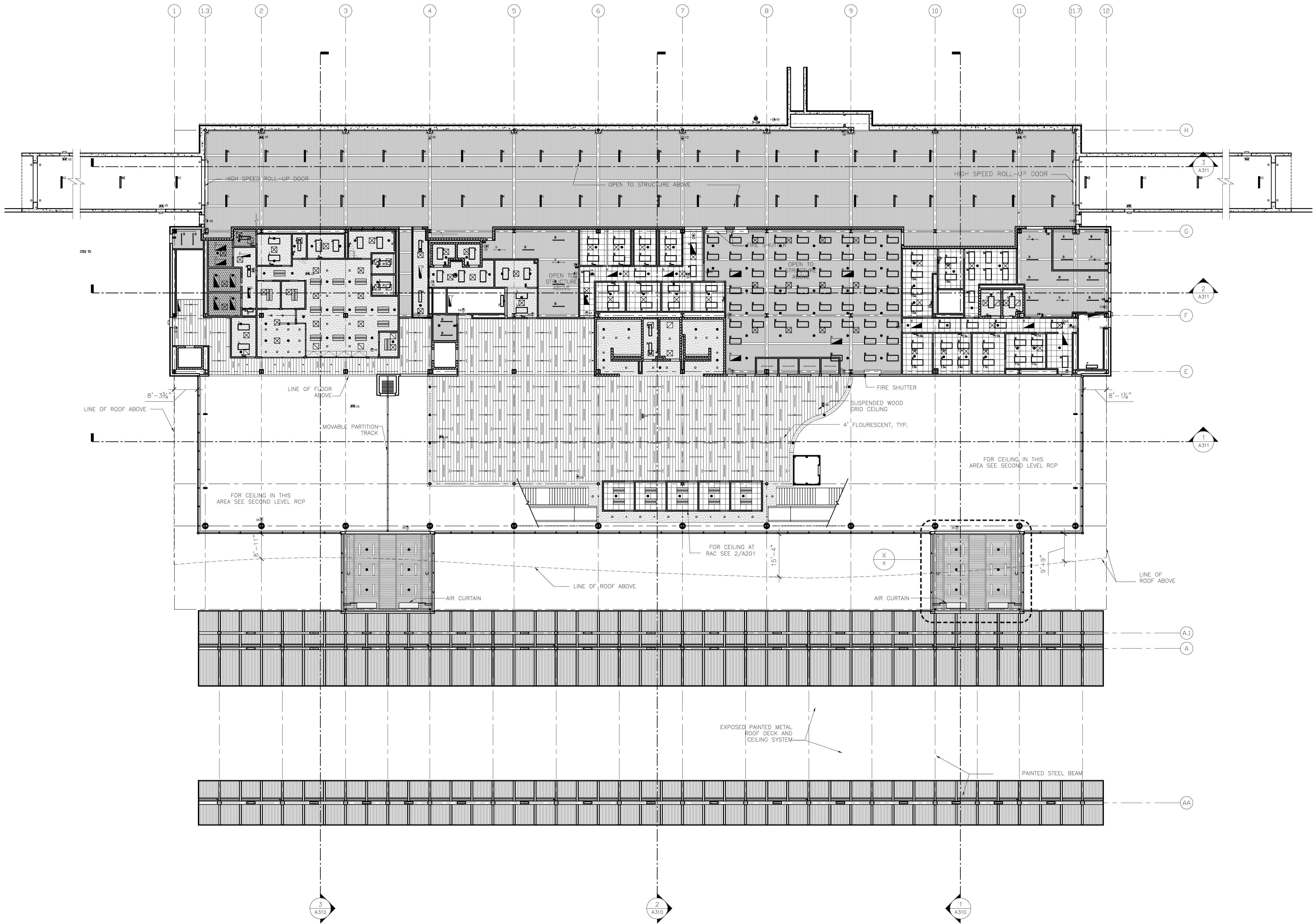


**1** ENLARGED THIRD LEVEL FLOOR PLAN - AREA A  
1/8" = 1'-0"

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10







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

**CONSULTANTS**

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DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

**213-1882-091**

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SHEET TITLE

**OVERALL  
FIRST FLOOR  
RCP**

SHEET NUMBER

**A201**

**BUILDING  
PERMIT**

**CONSULTANTS**

Interior Architects:  
**SJA ARCHITECTS**  
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Structural Engineers:  
**MBJ CONSULTING ENG.**  
501 Lake Avenue South, Suite 300, Duluth MN 55802  
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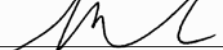
M/E/P/F Engineers:  
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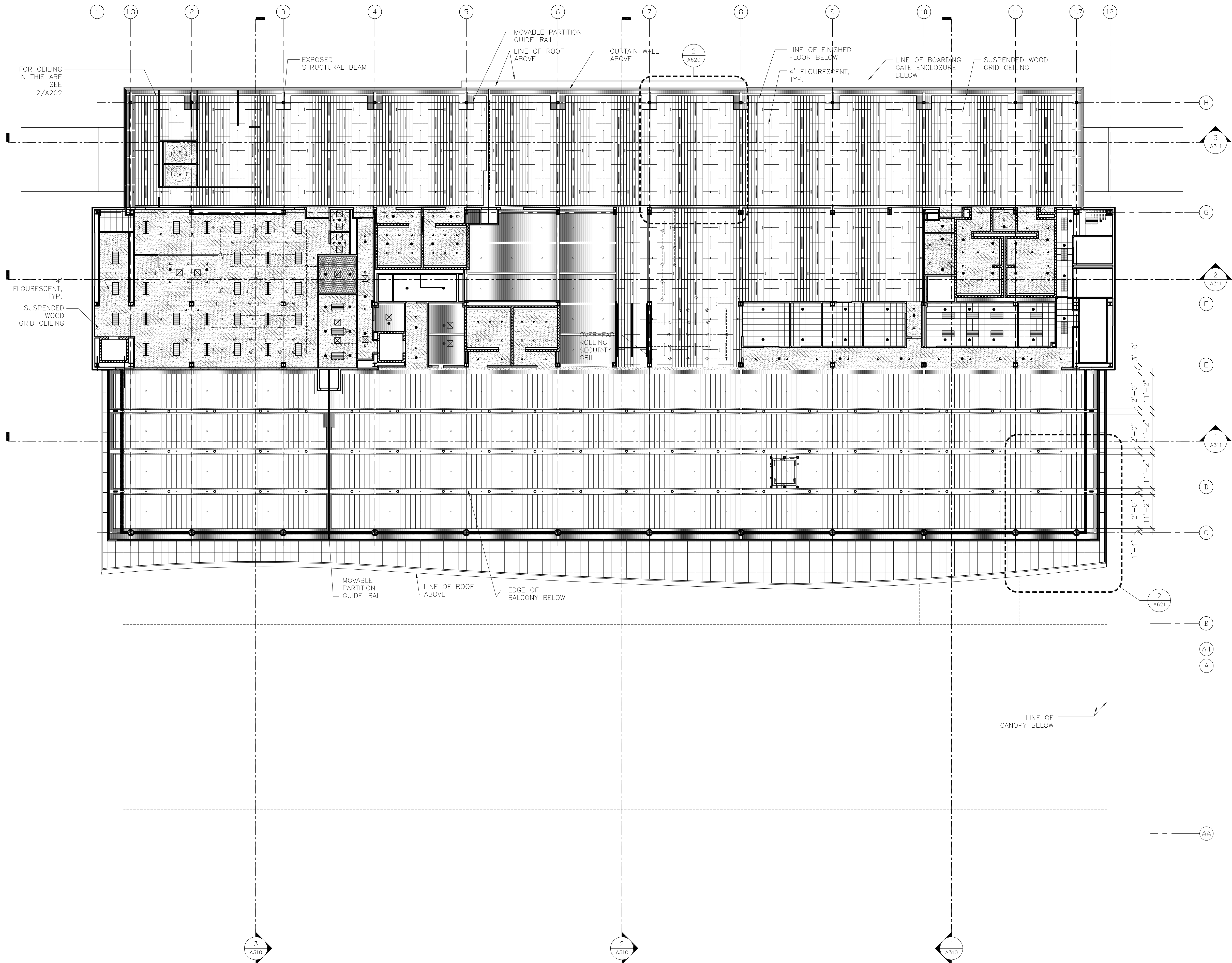
AEP PROJECT NUMBER  
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SHEET TITLE  
**OVERALL  
SECOND FLOOR  
RCP**

SHEET NUMBER

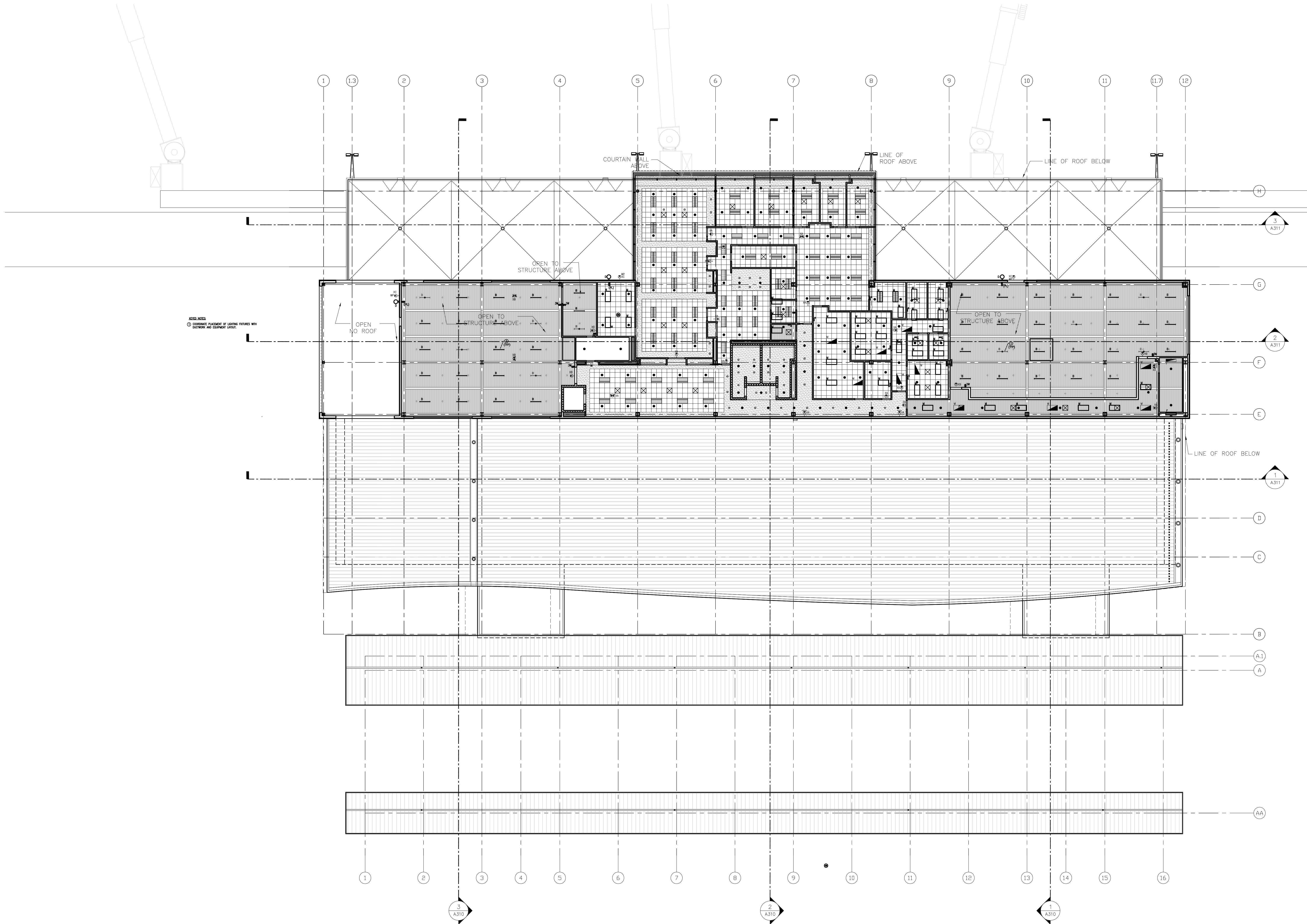
**A202**

**BUILDING  
PERMIT**



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





NOTES:  
1. COORDINATE PLACEMENT OF LIGHTING FIXTURES WITH  
DOCKWORK AND EQUIPMENT LAYOUT.

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

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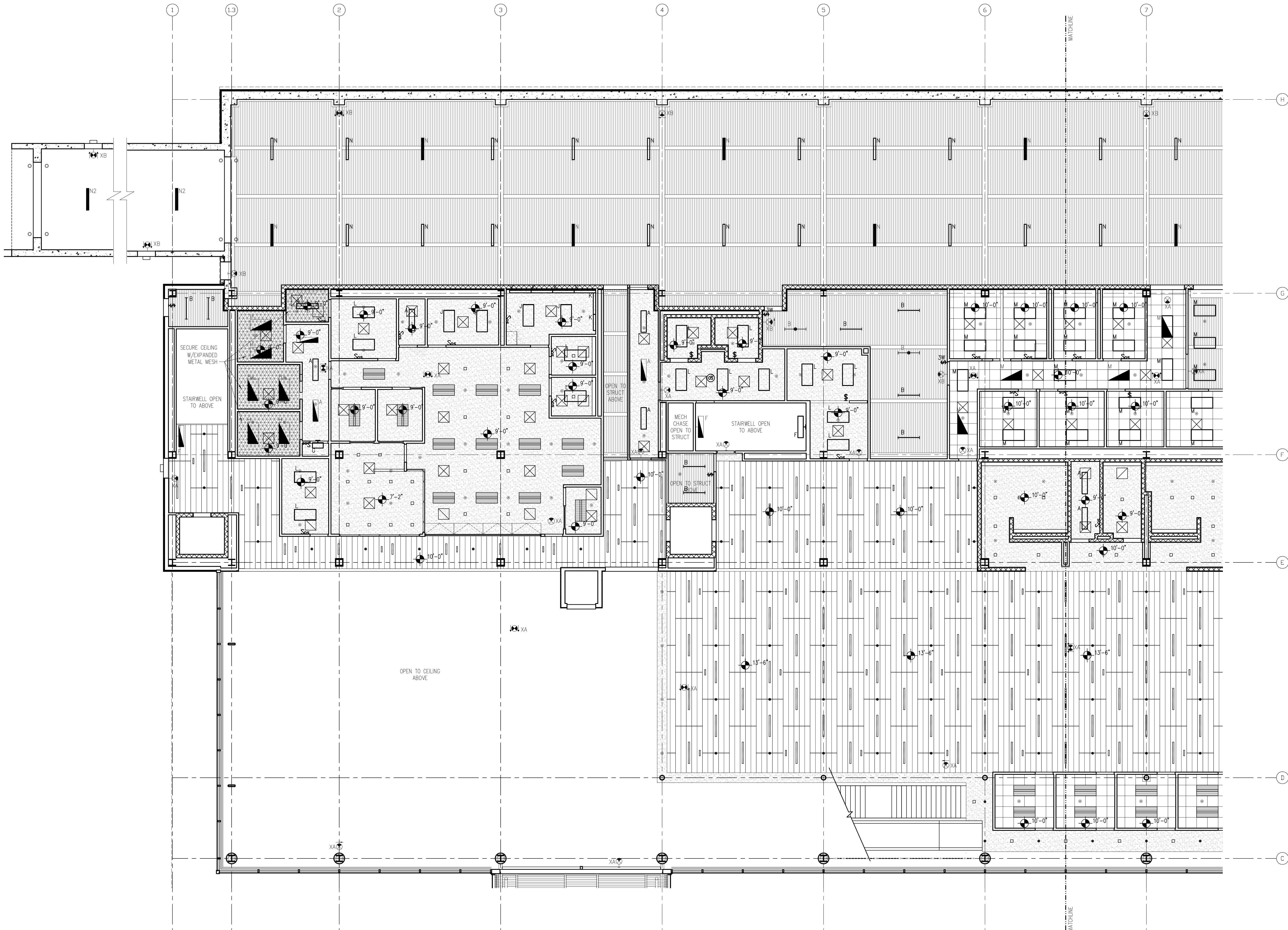
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SHEET TITLE  
**OVERALL  
THIRD FLOOR  
RCP**

SHEET NUMBER  
**A203**  
**BUILDING  
PERMIT**



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

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

**ARCHITECTURAL CERTIFICATION**  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

**DATE ISSUED:** 08-16-10  
**REVIEWED BY:** SBS/TC  
**DRAWN BY:** MKG/MI  
**DESIGNED BY:** SBS/TC

**AEP PROJECT NUMBER**  
**213-1882-091**  
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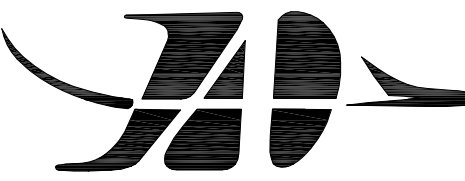
**SHEET TITLE**  
**ENLARGED  
FIRST FLOOR  
REFLECTED CEILING  
PLAN AREA A**

**SHEET NUMBER**  
**A210**  
**BUILDING  
PERMIT**





**Reynolds, Smith and Hills, Inc.**  
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**Duluth, Minnesota 55811**  
**218-722-1227 Fax: 218-722-1052**  
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DULUTH, MN**

## NEW PASSENGER TERMINAL

### CONSULTANTS:

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Structural Engineers:  
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Landscaping Consultants:  
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Print Name: Mark

Signature: 

Date: 06-03-10      Reg. No.: 460

## REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

**DATE ISSUED:** 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

**AEP PROJECT NUMBER**

**213-1882-091**

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**SHEET TITLE**

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

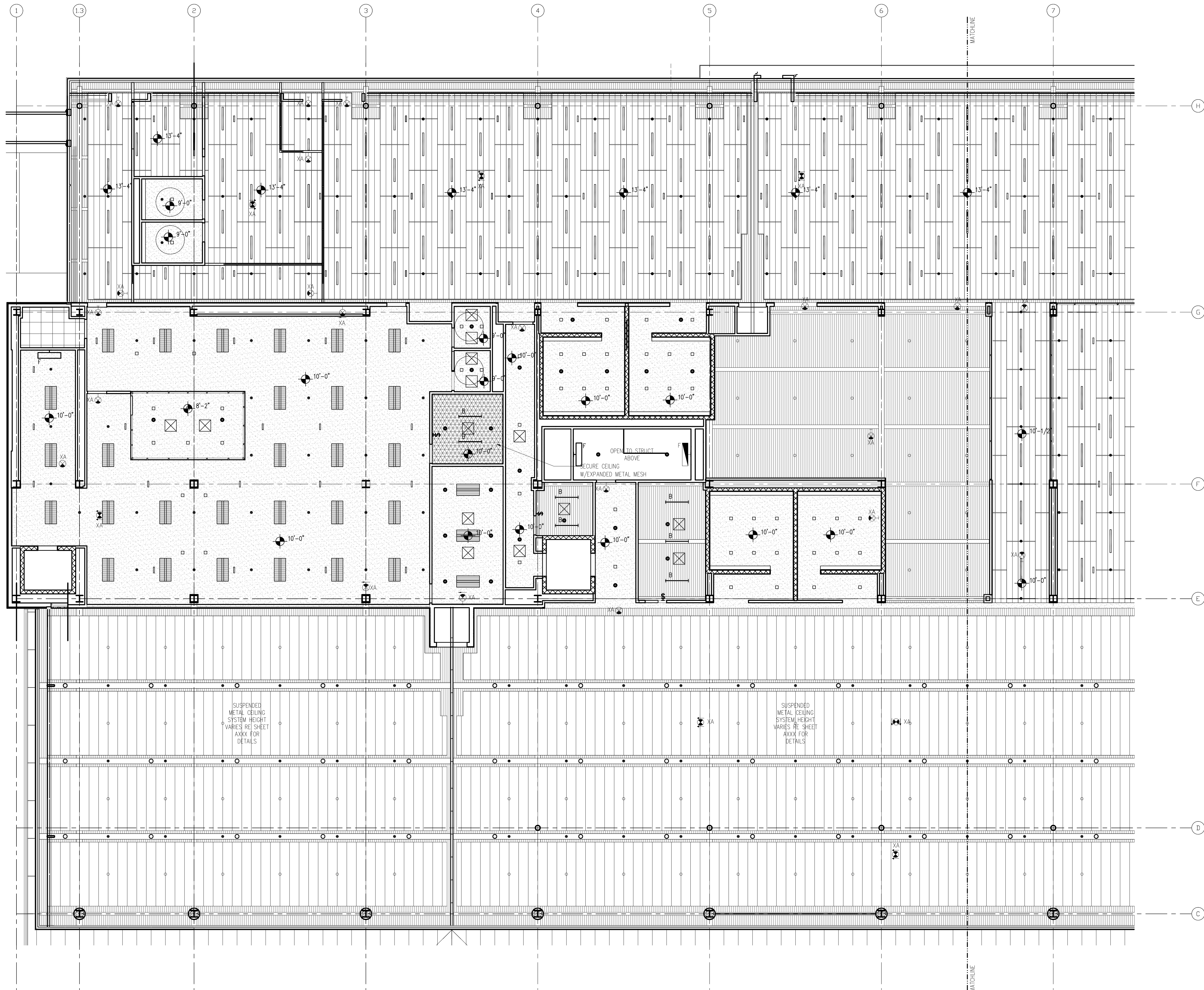
**SHEET NUMBER**

**A21-**

# BUILDING PERMIT



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



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Date: 06-03-10 Reg. No.: 46001

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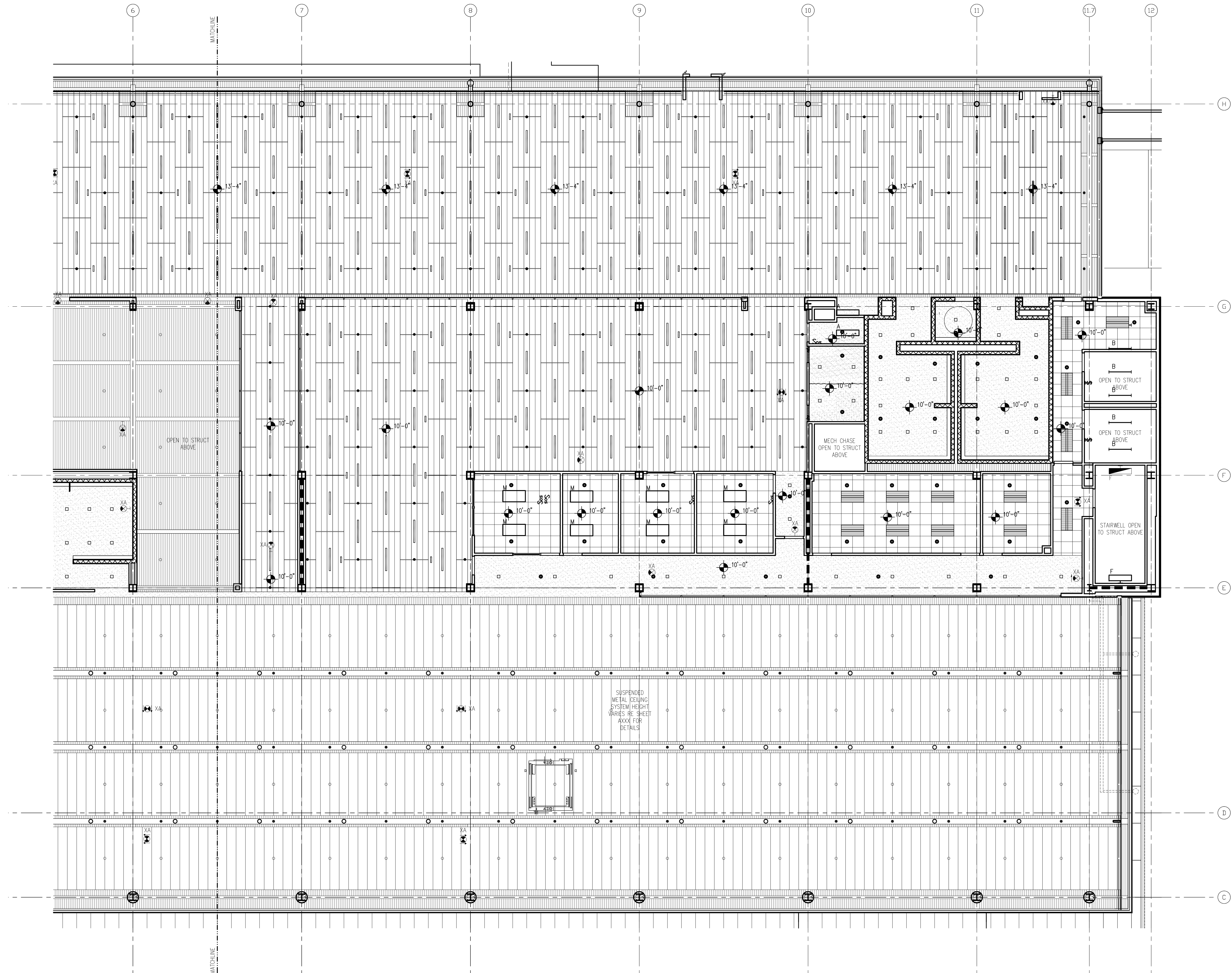
AEP PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**ENLARGED  
SECOND FLOOR  
REFLECTED CEILING  
PLAN AREA A**

**SHEET NUMBER**  
**A212**  
**BUILDING  
PERMIT**

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





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

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TEL: (218) 591-5079

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Date: 06-03-10 Reg. No.: 46001

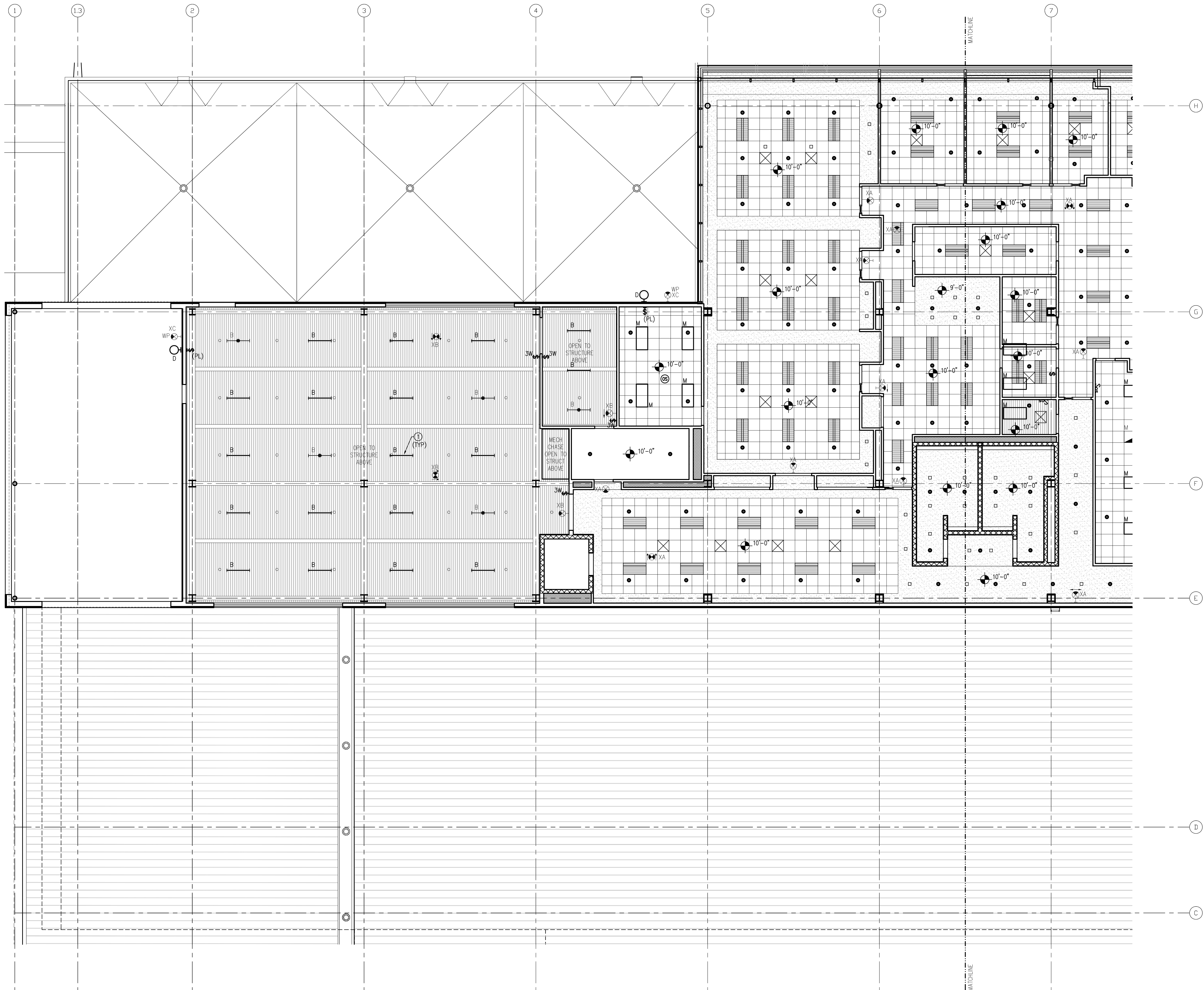
REVISIONS		
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4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**  
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SHEET TITLE  
**ENLARGED  
SECOND FLOOR  
REFLECTED CEILING  
PLAN AREA B**

SHEET NUMBER  
**A213**  
**BUILDING  
PERMIT**



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



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Signature:

Date: 06-03-10 Reg. No.: 46001

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4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
213-1882-091

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SHEET TITLE  
ENLARGED  
THIRD FLOOR  
REFLECTED CEILING  
PLAN AREA A

SHEET NUMBER

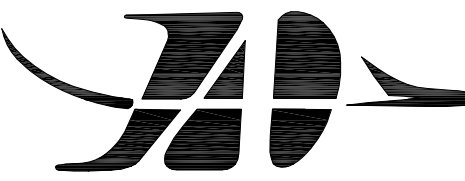
A214

BUILDING  
PERMIT





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## NEW PASSENGER TERMINAL

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---

Print Name: Mark

Signature: ME

Date: 06-03-10      Reg. No.: 460

## REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

**DATE ISSUED:** 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

**AEP PROJECT NUMBER**

**213-1882-001**

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**SHEET TITLE**

**ENLARGED**

### THIRD FLOOR

### THIRD FLOOR REFLECTED CEILING

**REFLECTED CEILING**  
**PLAN AREA 2**

### PLAN AREA B

---

**SHEET NUMBER**

**A 215**

## A213

---

## BUILDING

## PERMIT

## 1. Introduction

Printed on: 8/13/2010 12:12 PM Plotted by: Godzina, M



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



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REVISIONS

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SHEET TITLE

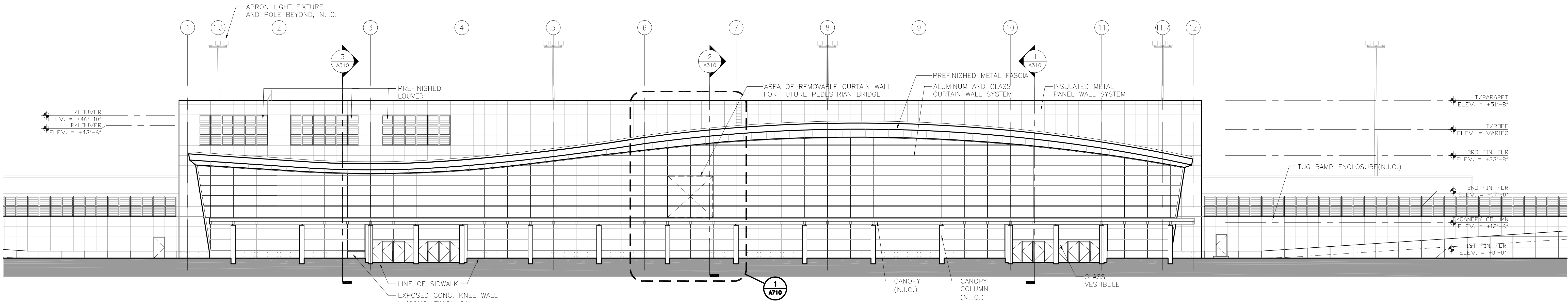
VESTIBULE AND  
RENTAL CAR  
REFLECTED  
CEILING PLANS

SHEET NUMBER

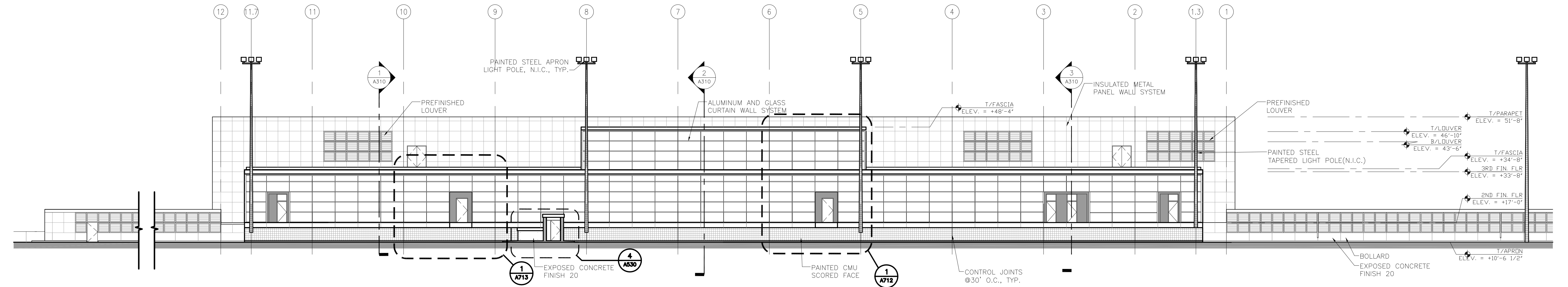
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BUILDING  
PERMIT

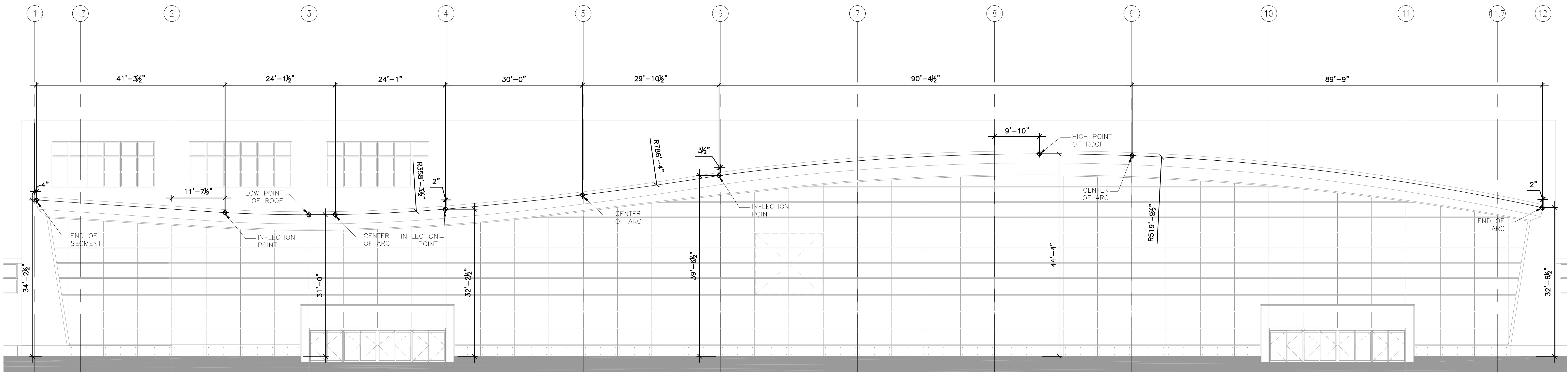




1 SOUTH ELEVATION - LANDSIDE  
1/16" = 1'-0"



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



3 ROOF GEOMETRY  
3/32" = 1'-0"

REVISIONS		
NO.	DESCRIPTION	DATE
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213-1882-091  
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**SHEET TITLE**  
**EXTERIOR  
ELEVATIONS**

**SHEET NUMBER**  
**A301**  
**BUILDING  
PERMIT**

**CONSULTANTS**

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

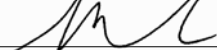
M/E/P/F Engineers:  
**COSENTINI ASSOCIATES INC.**  
1 South Wacker Drive, 37th Floor, Chicago IL 60606  
TEL: (312) 201-7406 / FAX: (312) 201-0031

Baggage Handling Systems Consultants:  
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Landscaping Consultants:  
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Print Name: Mark Ip

Signature: 

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
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DATE ISSUED: 08-16-10

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DRAWN BY: MKG/MI

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AEP PROJECT NUMBER

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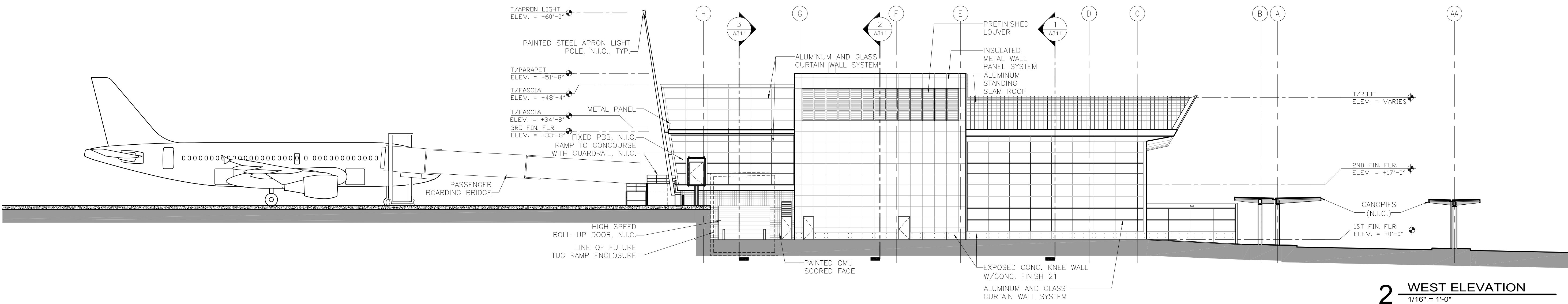
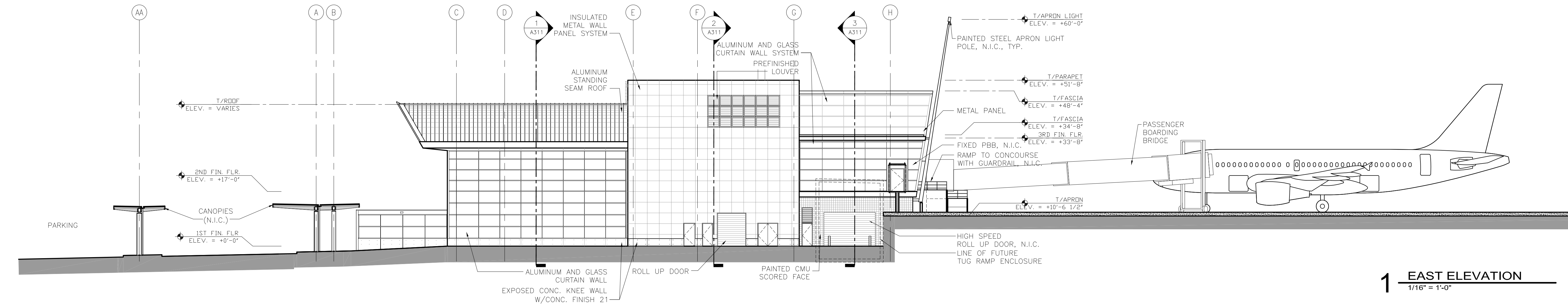
SHEET TITLE

**EXTERIOR  
ELEVATIONS**

SHEET NUMBER

**A302**

**BUILDING  
PERMIT**







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NEW PASSENGER  
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CONSULTANTS

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REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

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SHEET TITLE

CANOPY  
ELEVATIONS

SHEET NUMBER

A303

BUILDING  
PERMIT

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213-1882-091

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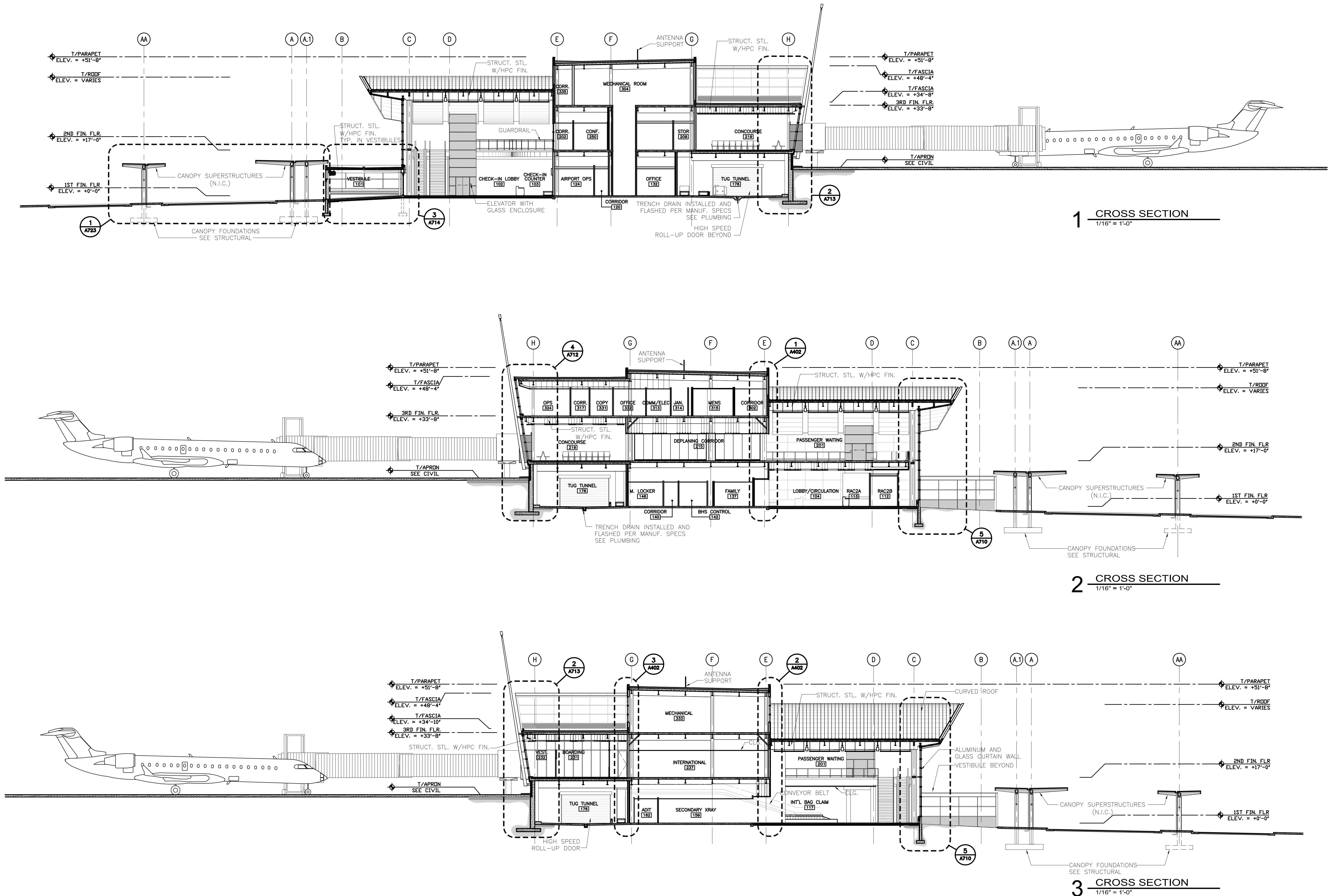
SHEET TITLE

**BUILDING  
SECTIONS**

SHEET NUMBER

**A310**

**BUILDING  
PERMIT**





**CONSULTANTS**

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

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


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

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

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

**ARCHITECTURAL CERTIFICATION**  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature: 

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

213-1882-091

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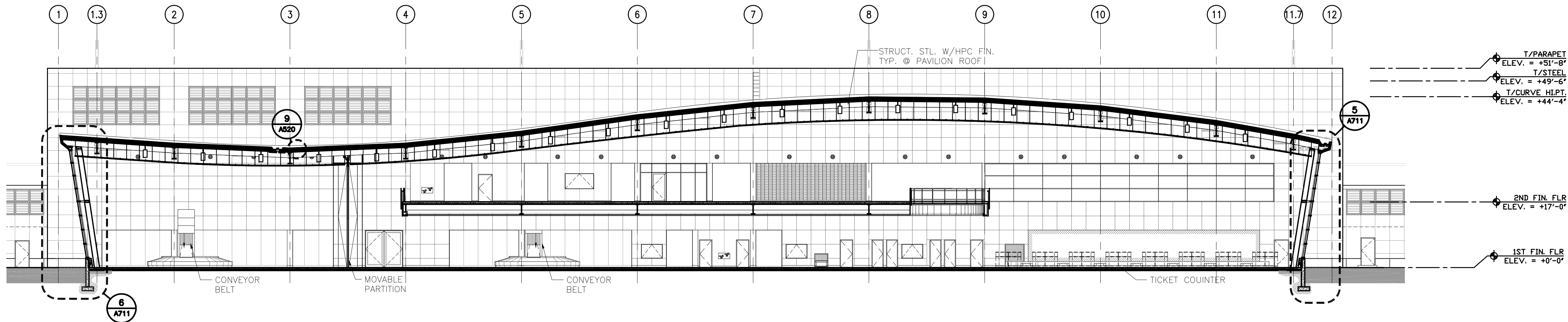
SHEET TITLE

**BUILDING  
SECTIONS**

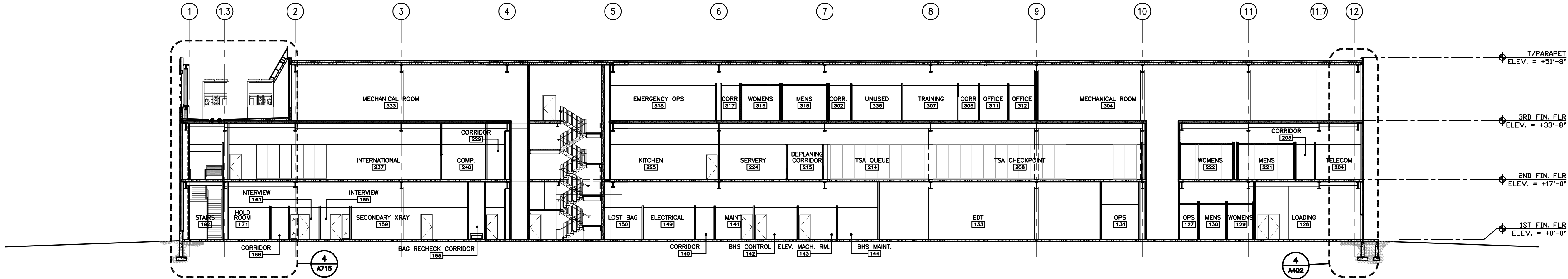
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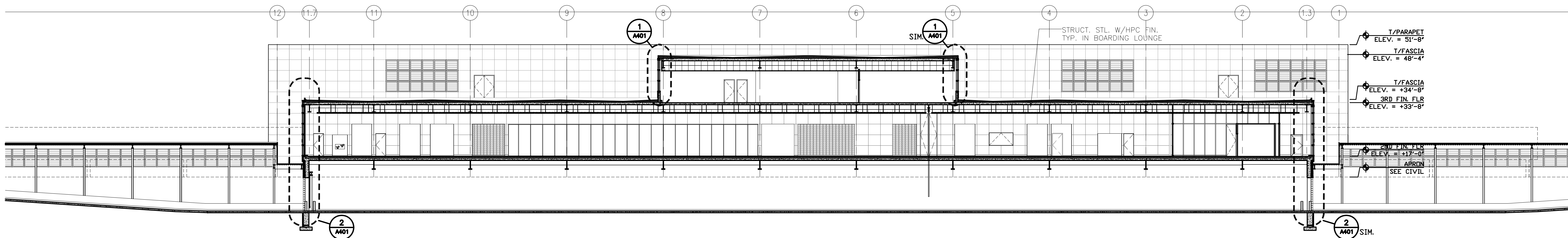
**BUILDING  
PERMIT**



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



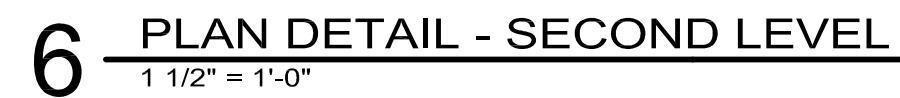
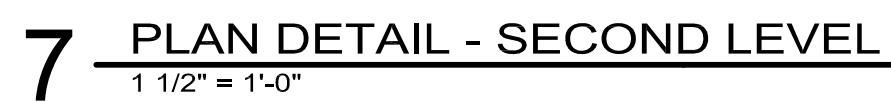
**2 LONGITUDINAL SECTION**  
1/16" = 1'-0"



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







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	BUILDING PERMIT	8.16.10

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REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

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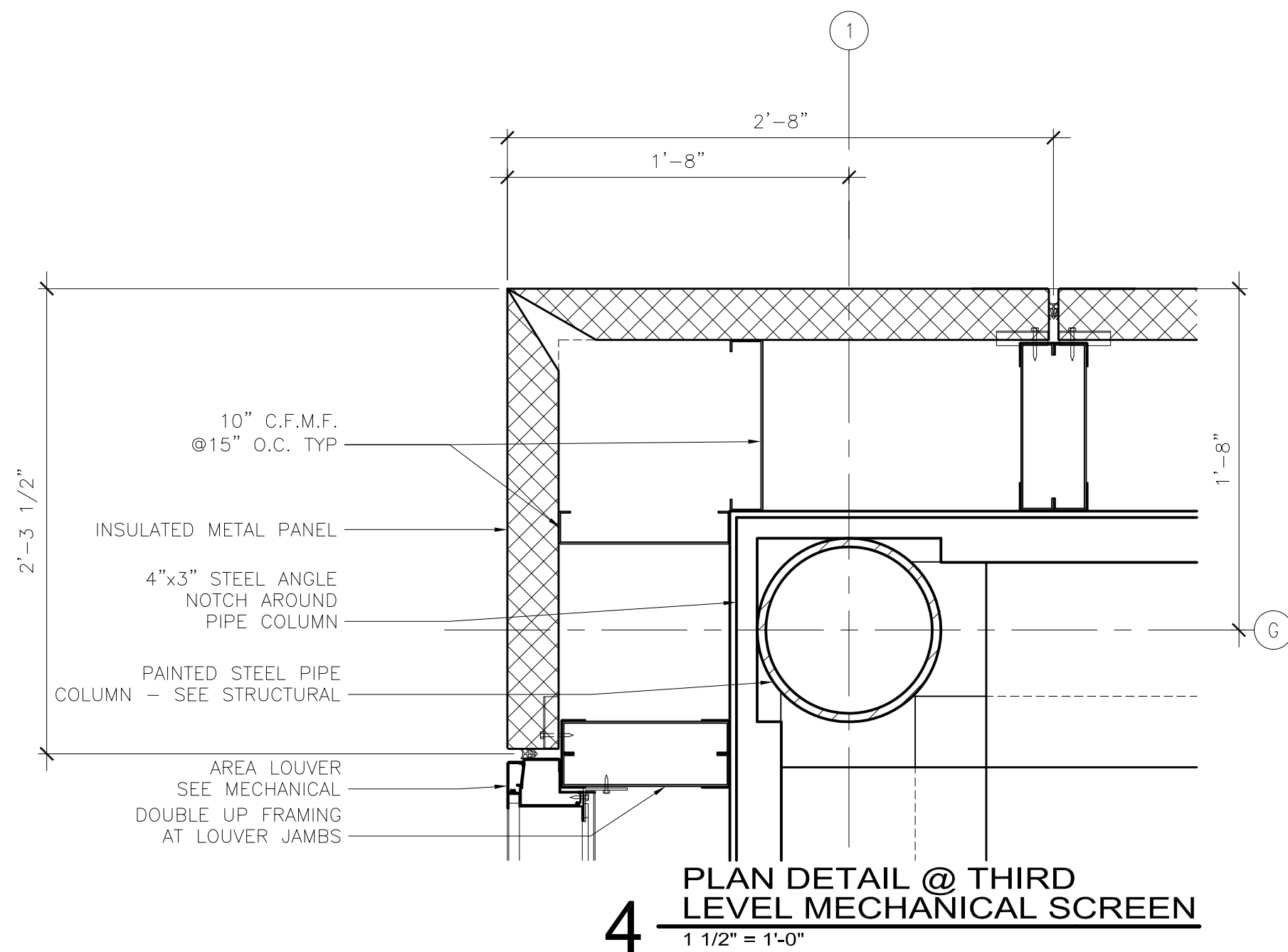
SHEET TITLE

**PLAN DETAILS**

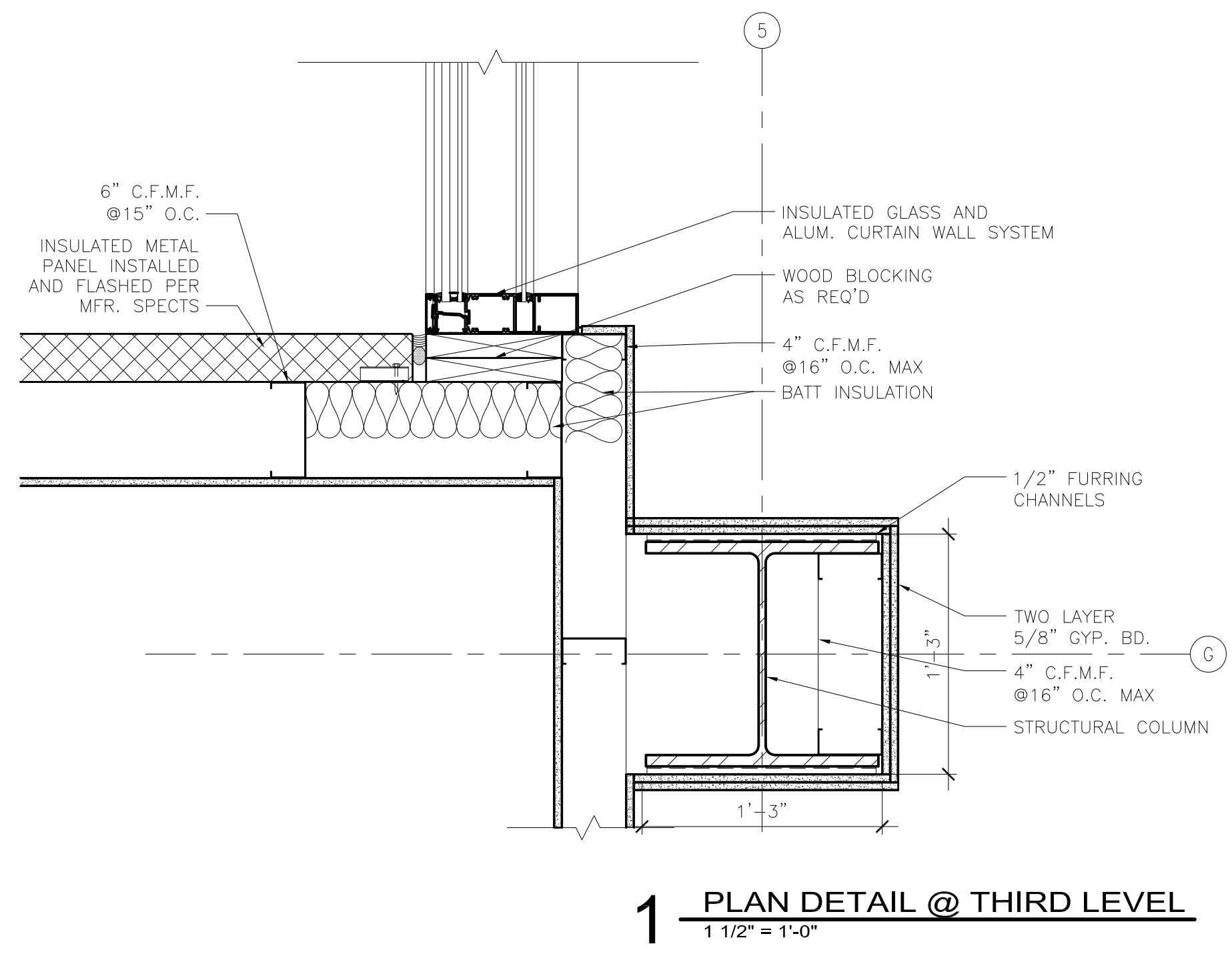
SHEET NUMBER

**A512**

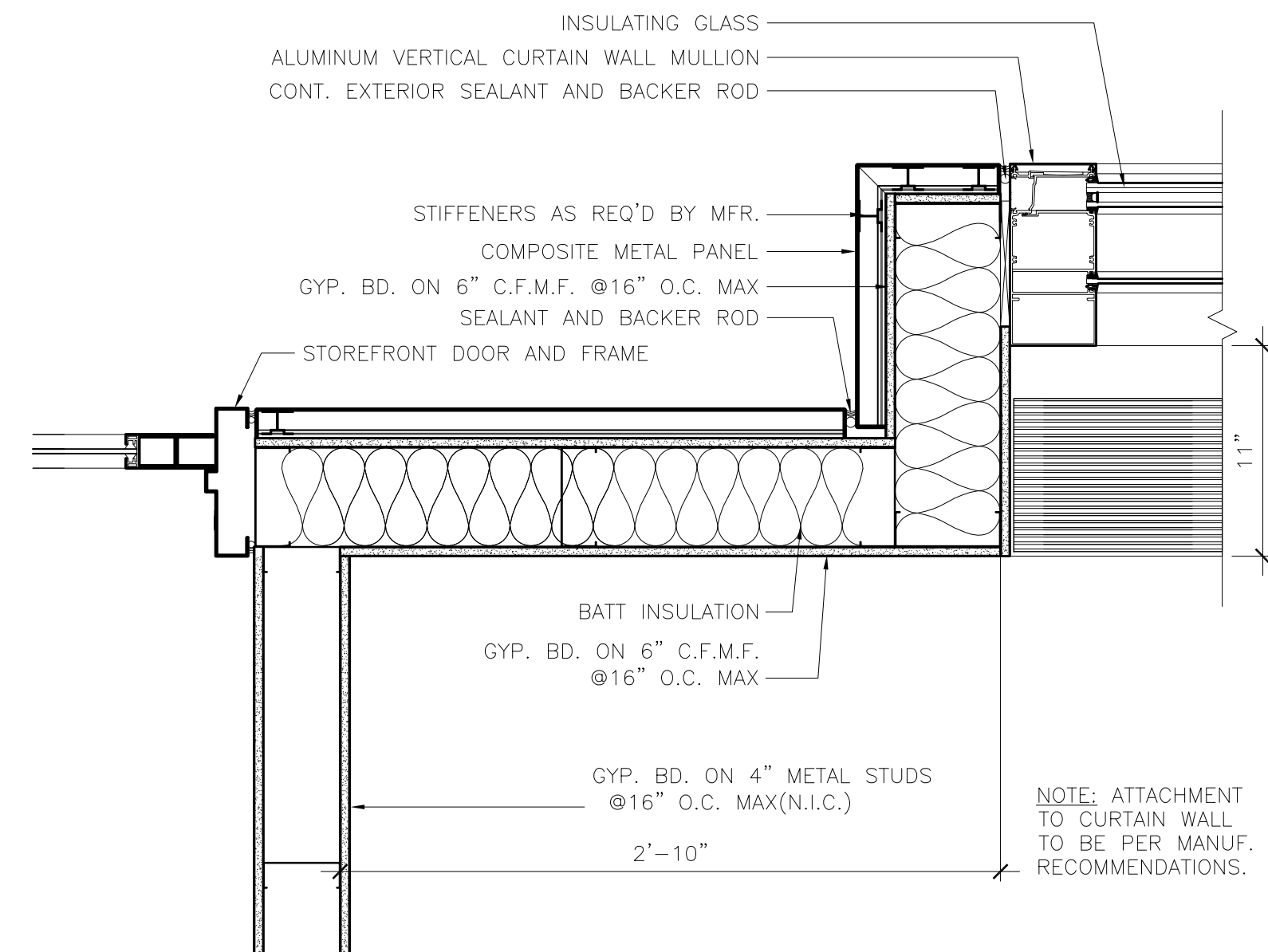
**BUILDING  
PERMIT**



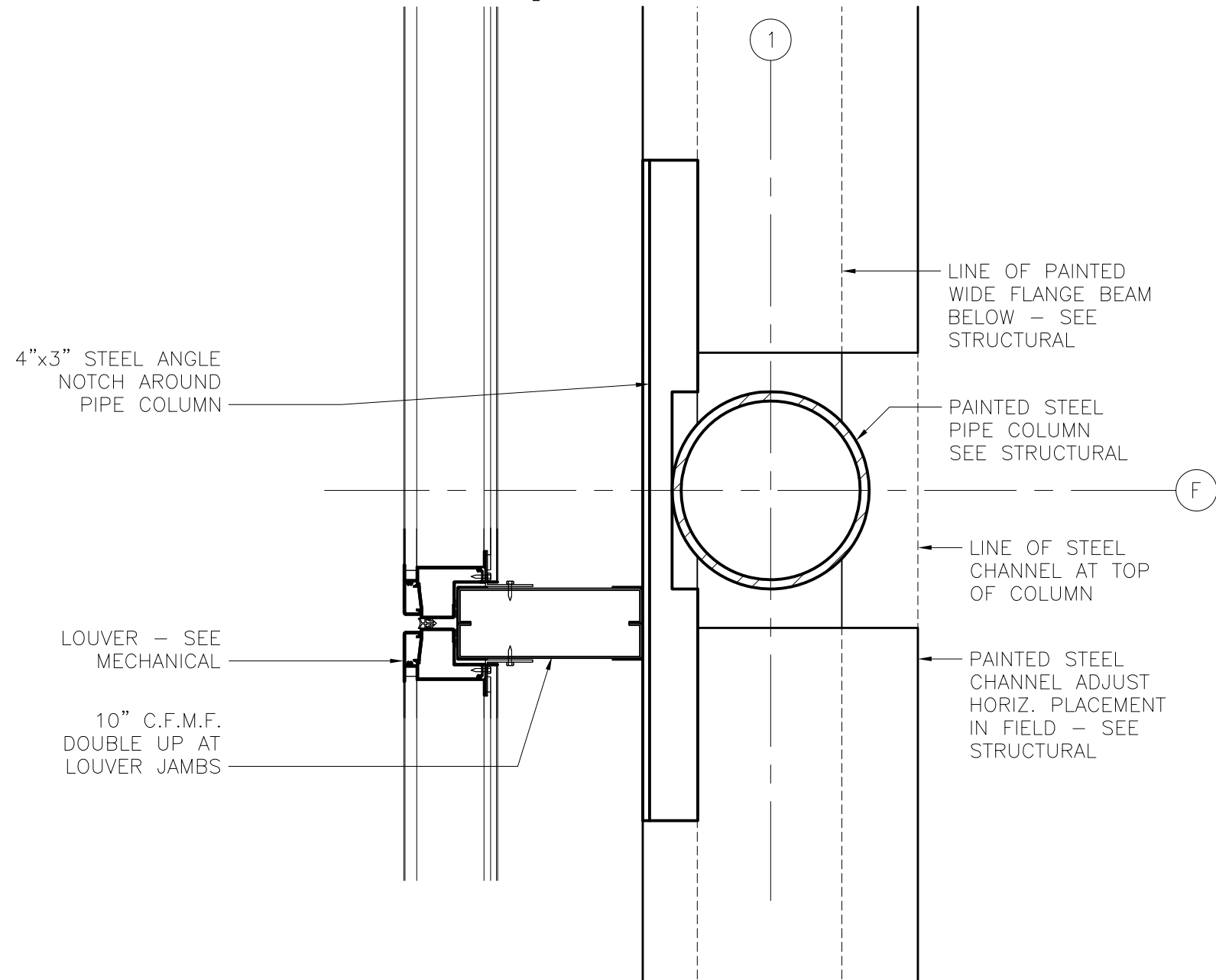
**4 PLAN DETAIL @ THIRD  
LEVEL MECHANICAL SCREEN**  
1 1/2" = 1'-0"



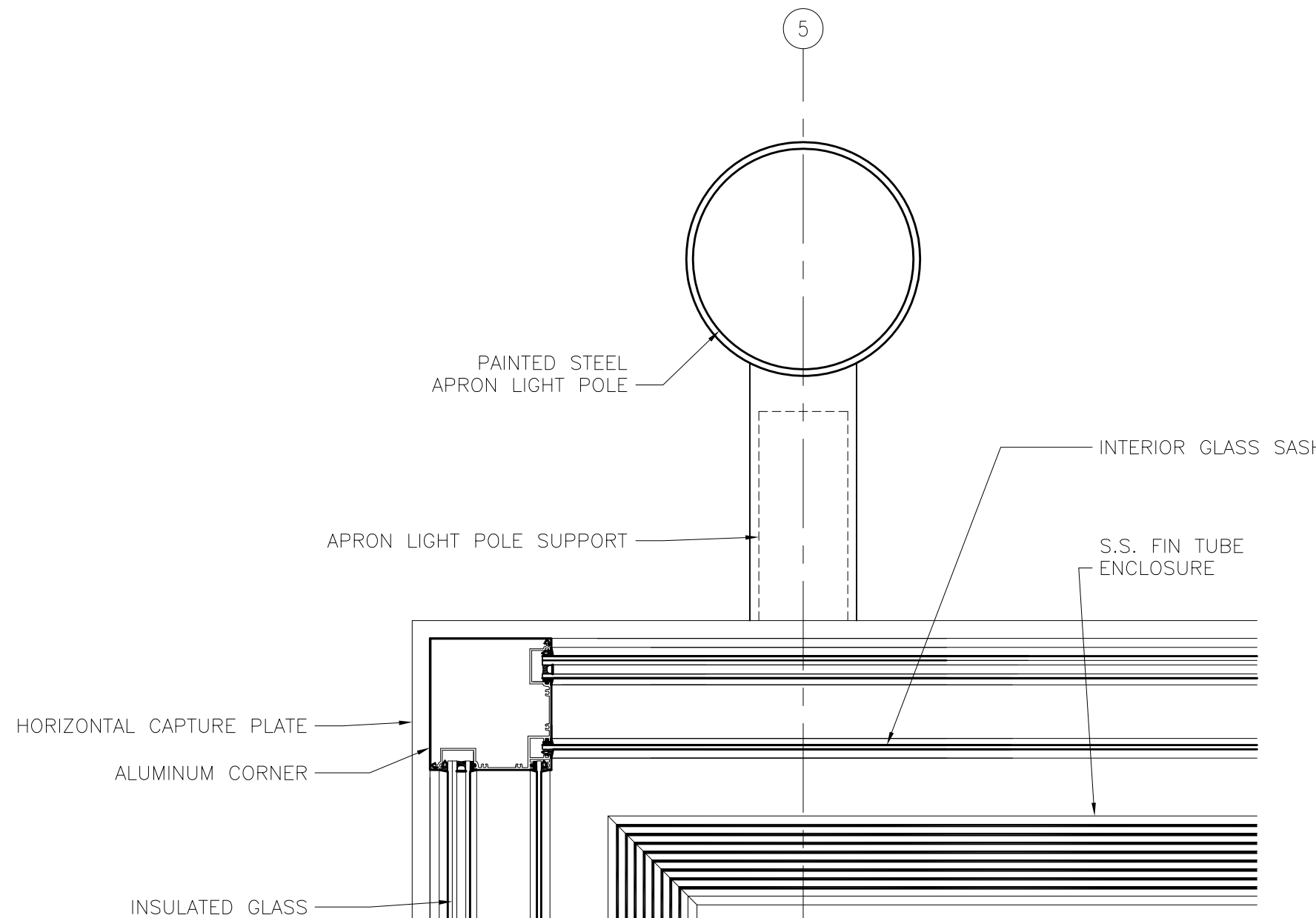
**1 PLAN DETAIL @ THIRD LEVEL**  
1 1/2" = 1'-0"



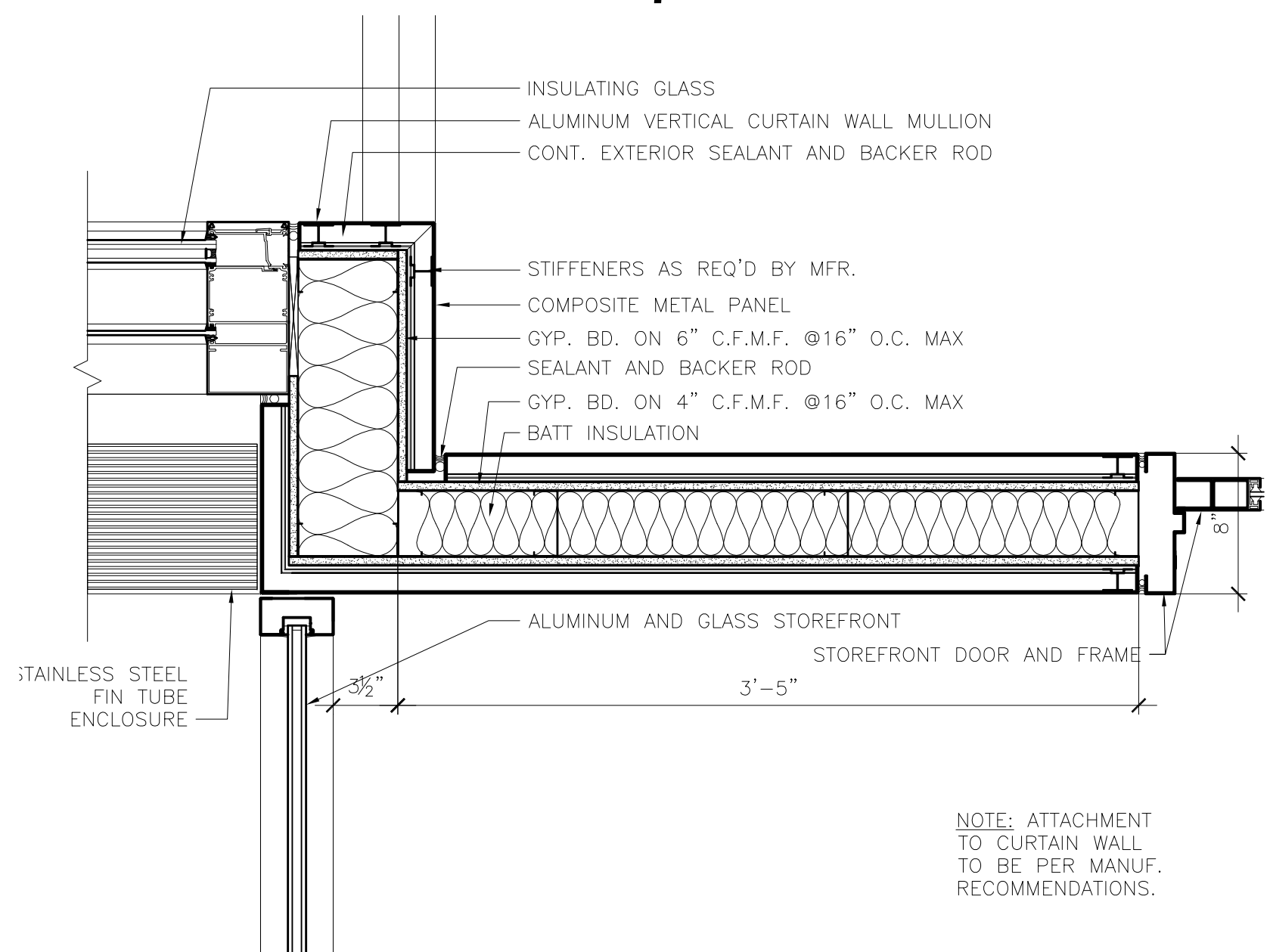
**7 PLAN DETAIL @ SECOND  
LEVEL DOOR PORTAL**  
1 1/2" = 1'-0"



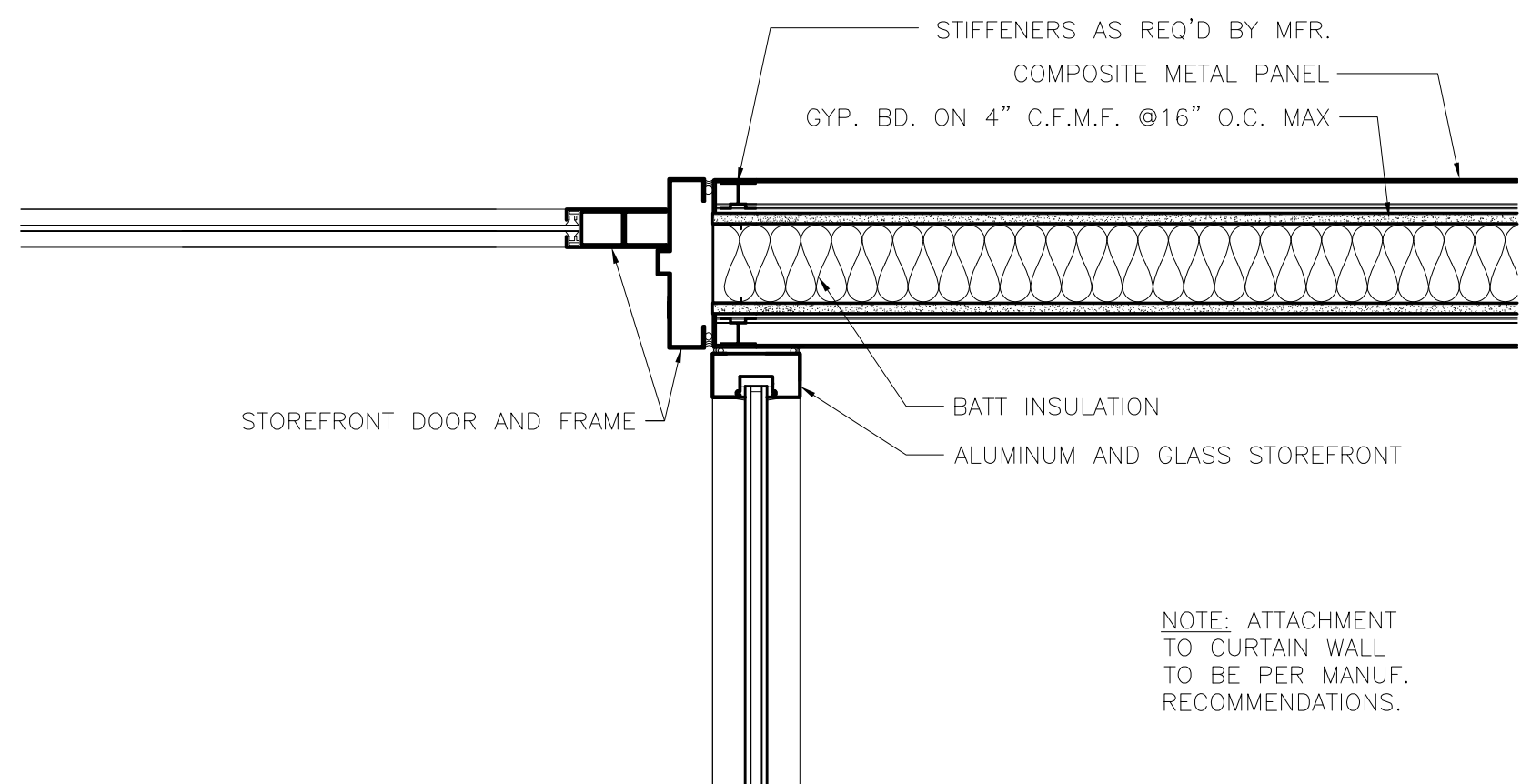
**5 PLAN DETAIL @ THIRD  
LEVEL MECHANICAL SCREEN**  
1 1/2" = 1'-0"



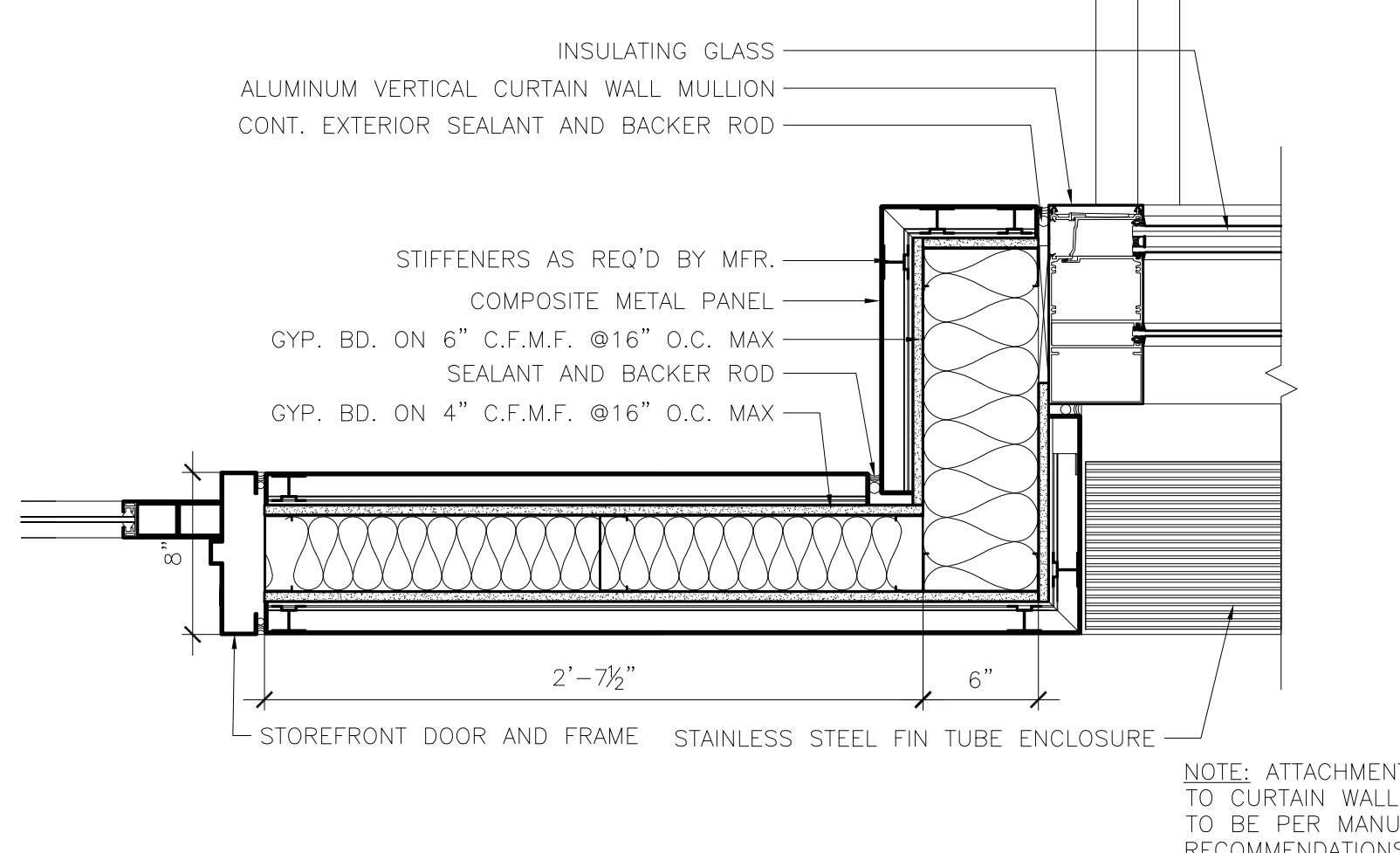
**2 PLAN DETAIL @ THIRD LEVEL**  
1 1/2" = 1'-0"



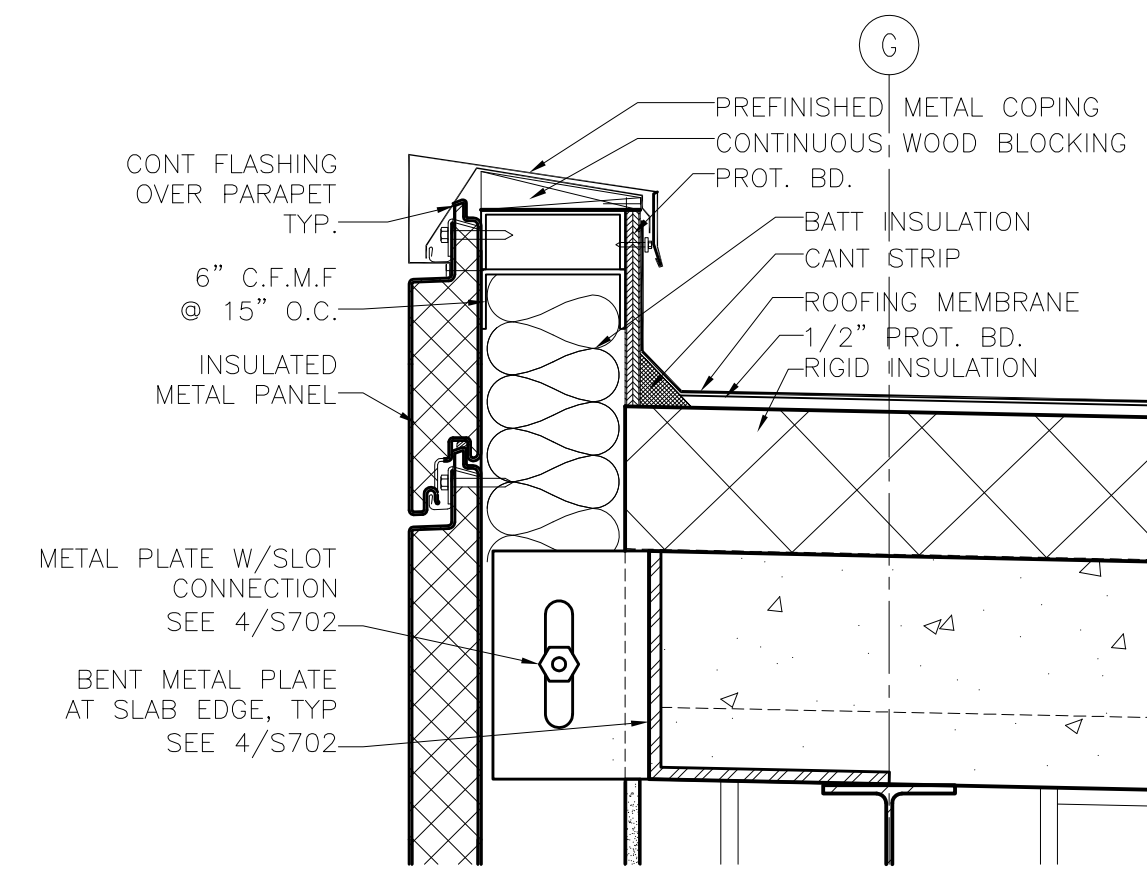
**8 PLAN DETAIL @ SECOND  
LEVEL DOOR PORTAL**  
1 1/2" = 1'-0"



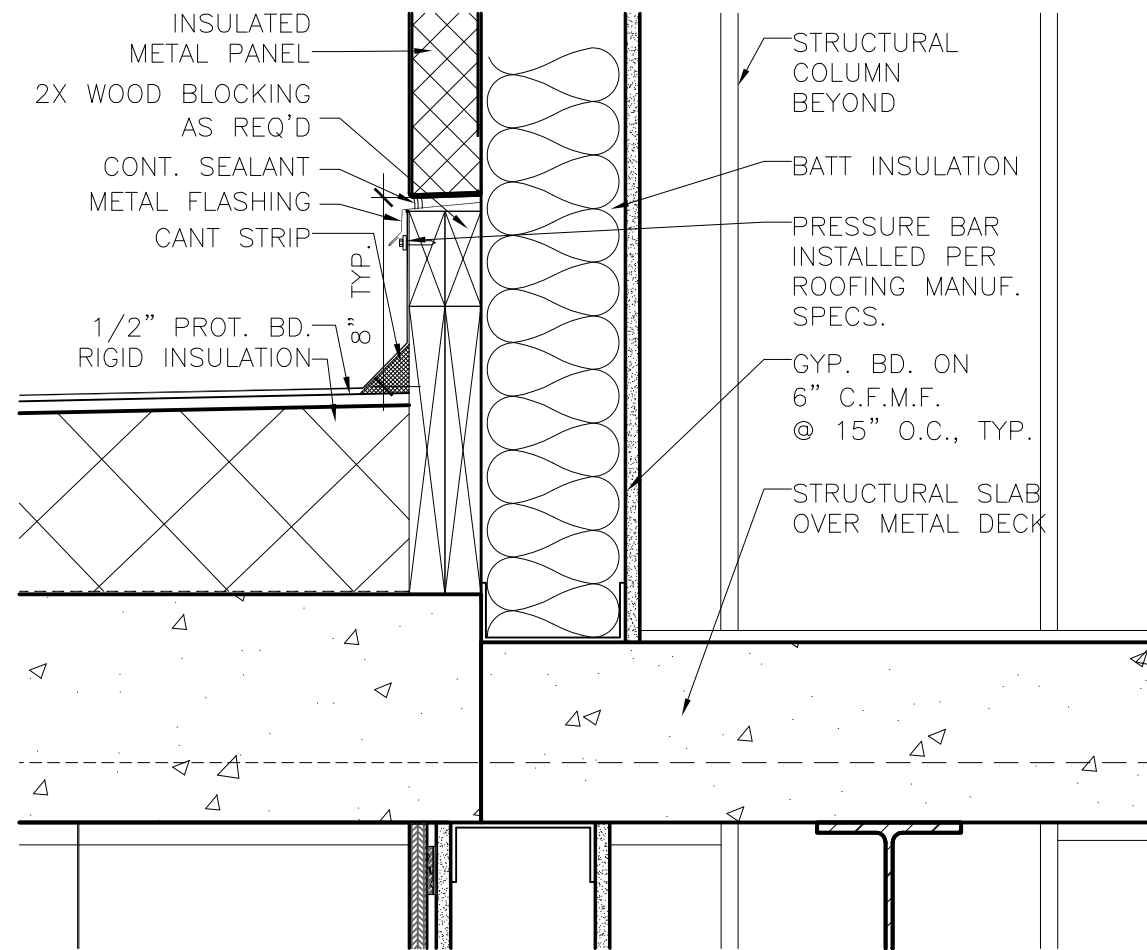
**6 PLAN DETAIL @ SECOND  
LEVEL DOOR PORTAL**  
1 1/2" = 1'-0"



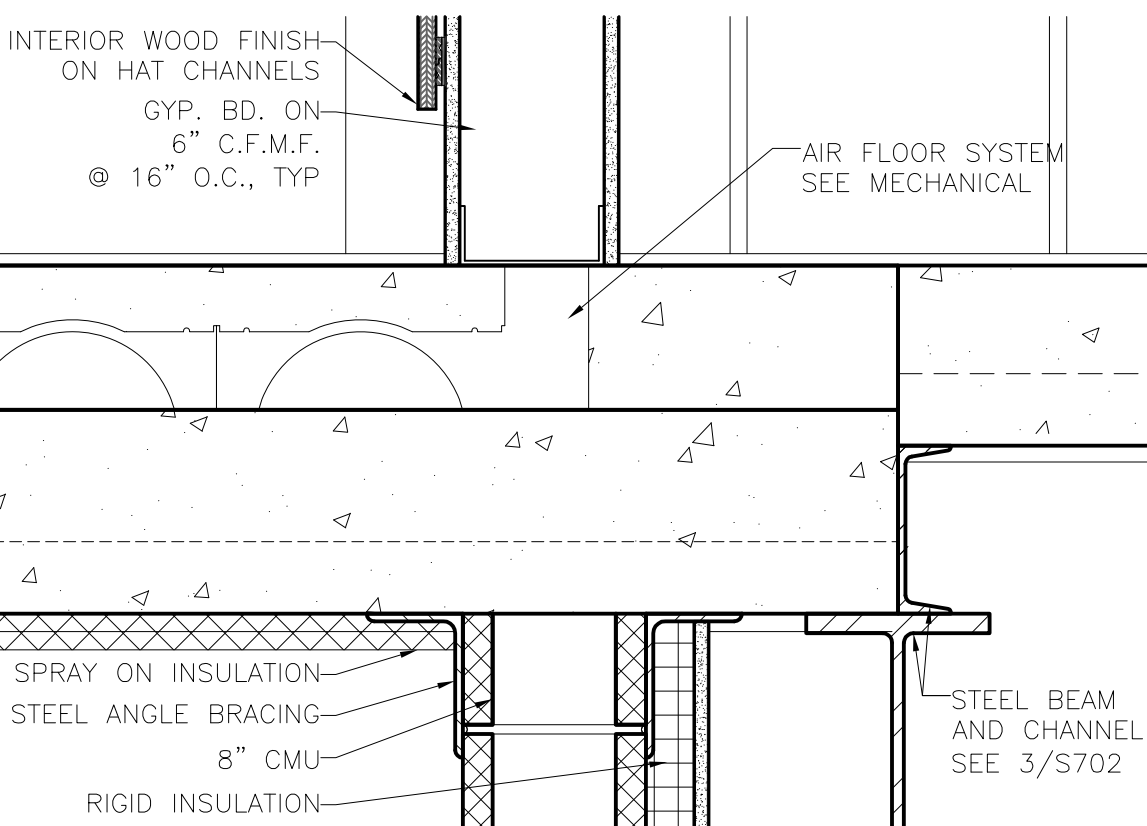
**3 PLAN DETAIL @ SECOND  
LEVEL DOOR PORTAL**  
1 1/2" = 1'-0"



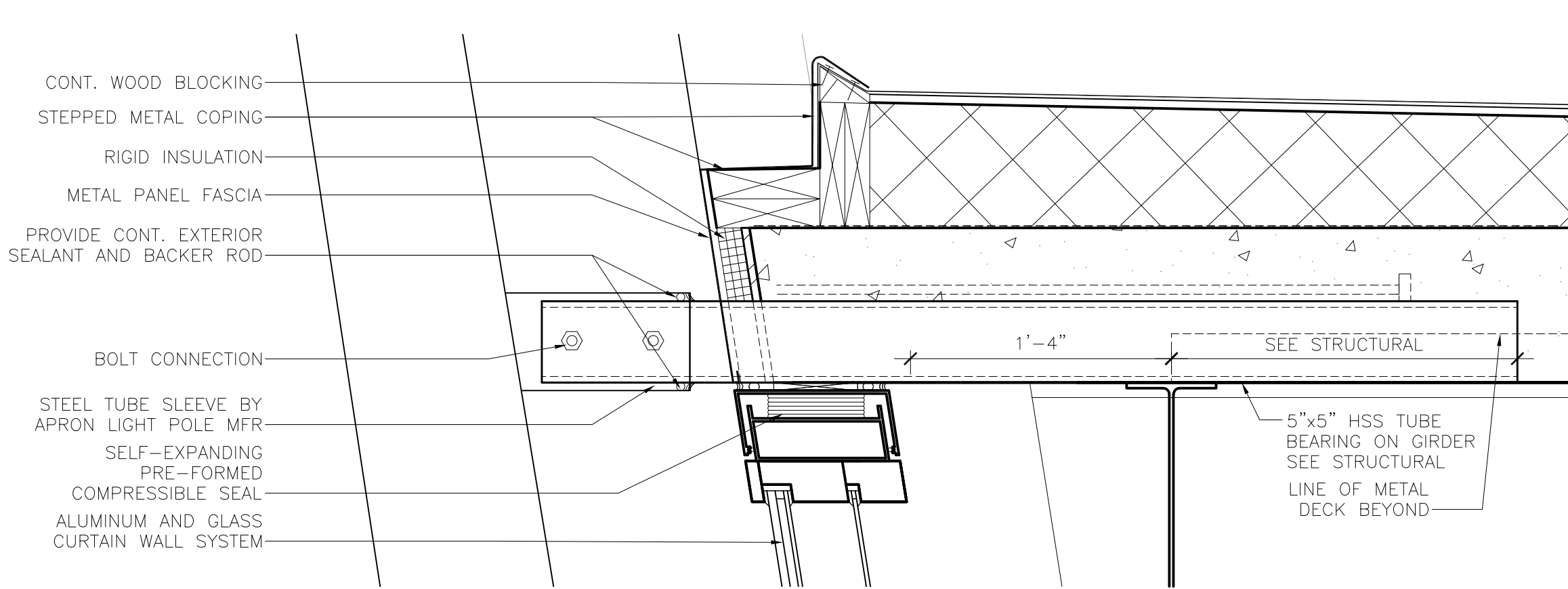
**10 SECTION DETAIL @TYP. CORE ROOF PARAPET**  
1 1/2" = 1'-0"



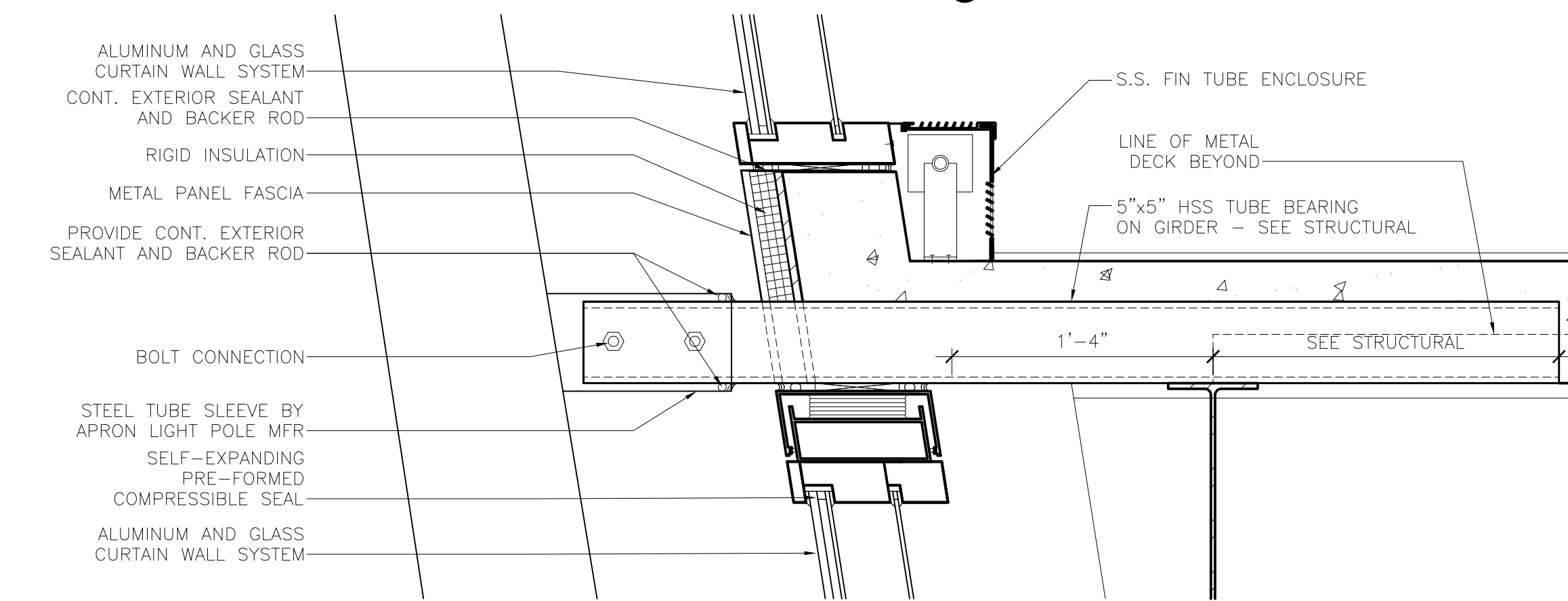
**11 SECTION DETAIL @ CORE WALL TO CONCOURSE ROOF**  
1 1/2" = 1'-0"



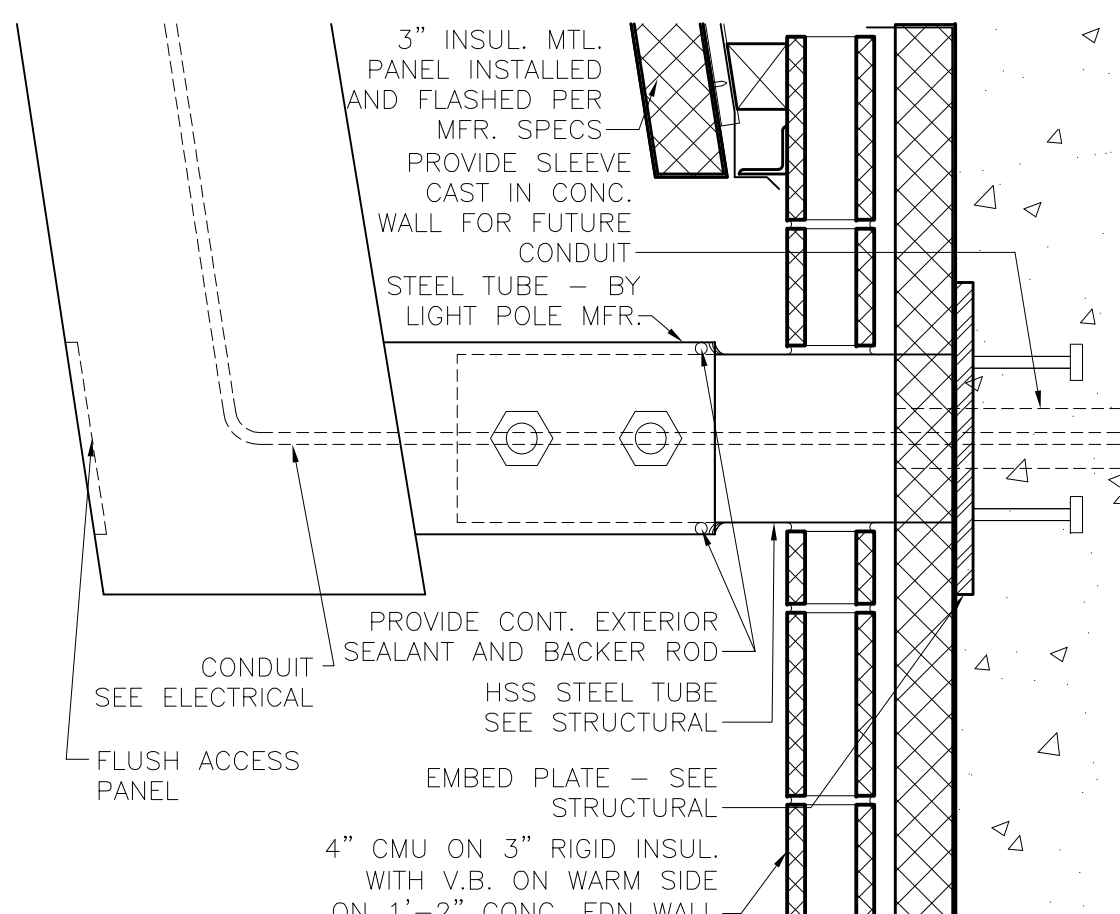
**12 SECTION DETAIL @ SECOND FLOOR SLAB TRANSITION**  
1 1/2" = 1'-0"



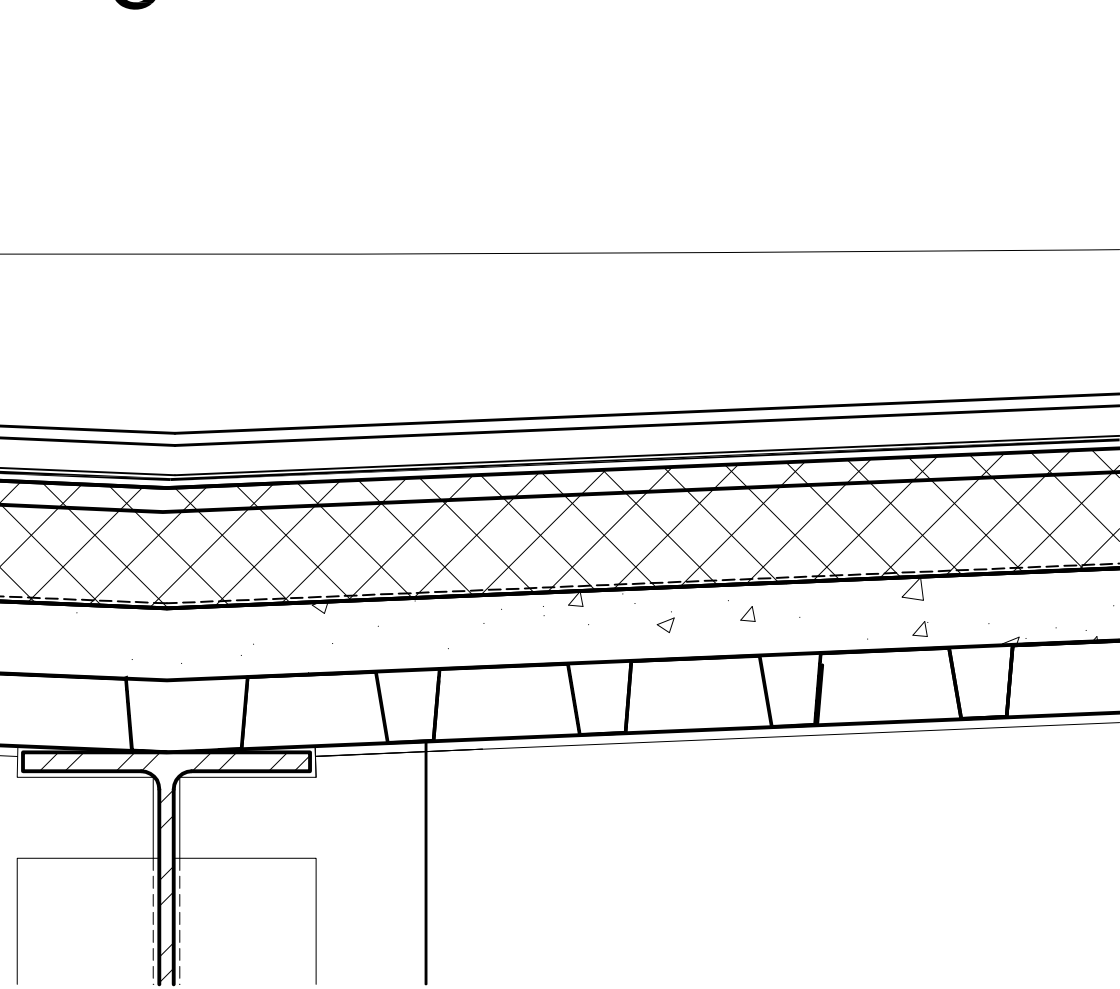
**6 SECTION DETAIL @ APRON LIGHT POLE - CONCOURSE ROOF**  
1 1/2" = 1'-0"



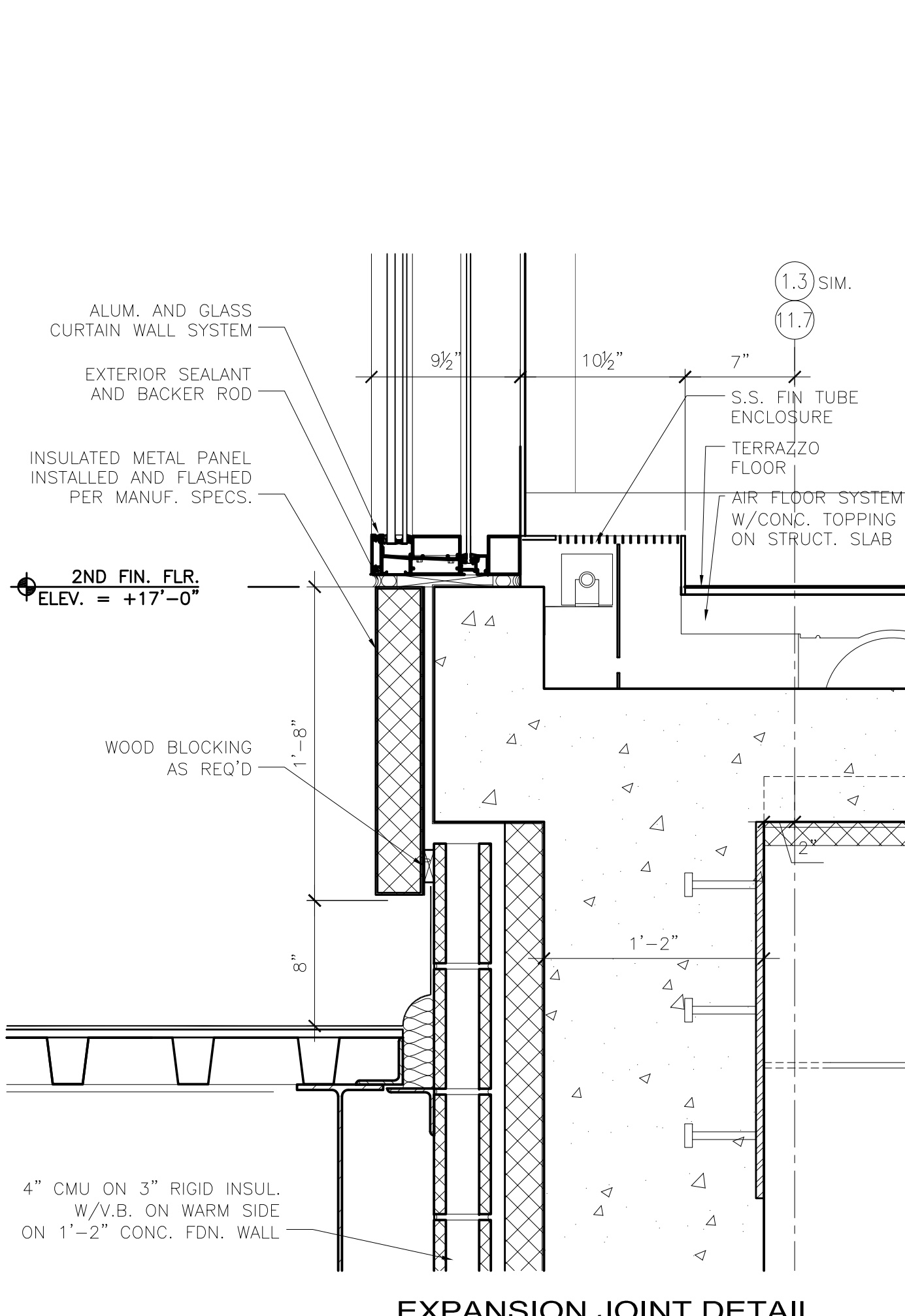
**7 SECTION DETAIL @ APRON LIGHT POLE - THIRD FLOOR**  
1 1/2" = 1'-0"



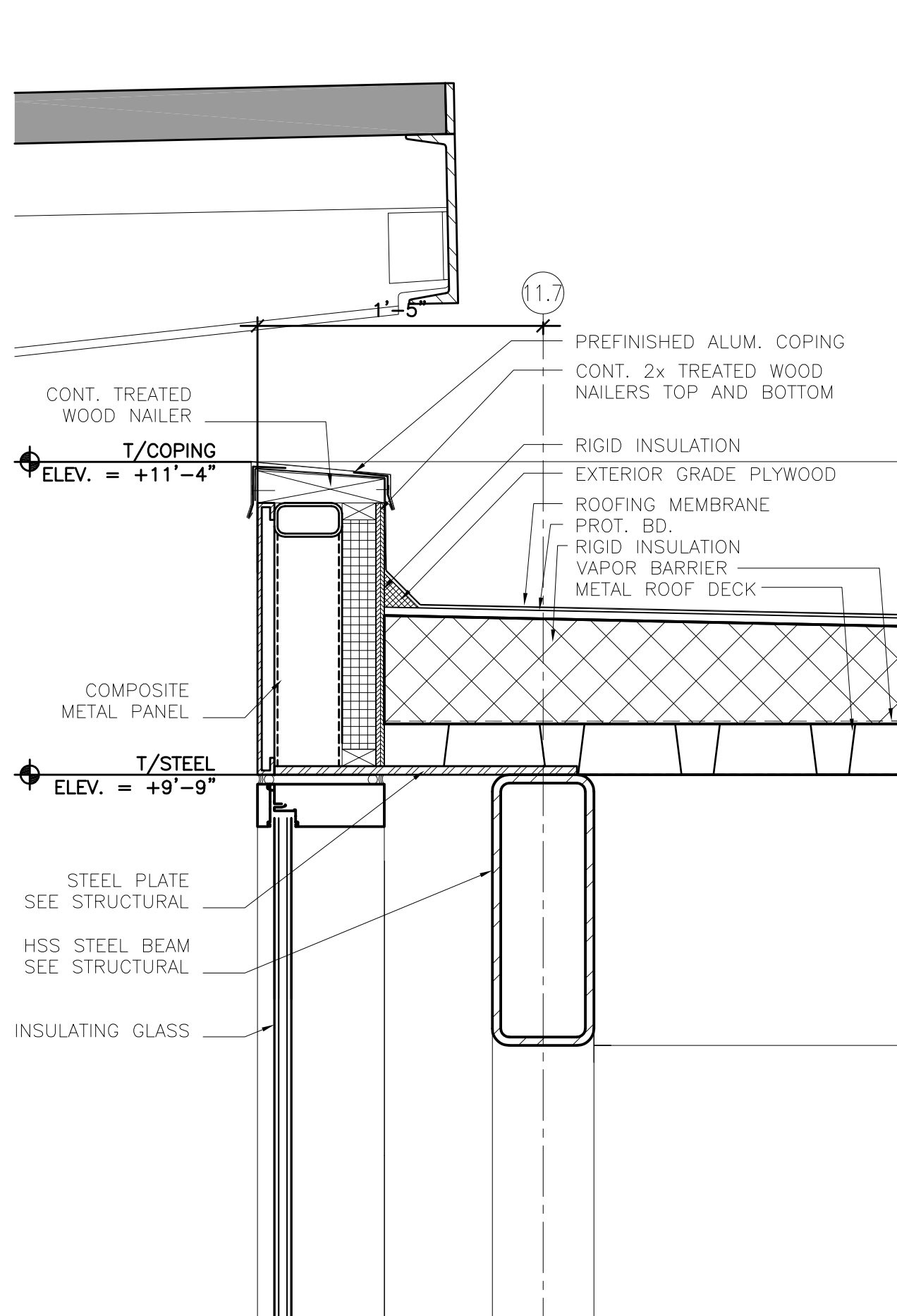
**8 SECTION DETAIL @ APRON LIGHT POLE BASE CONNECTION**  
1 1/2" = 1'-0"



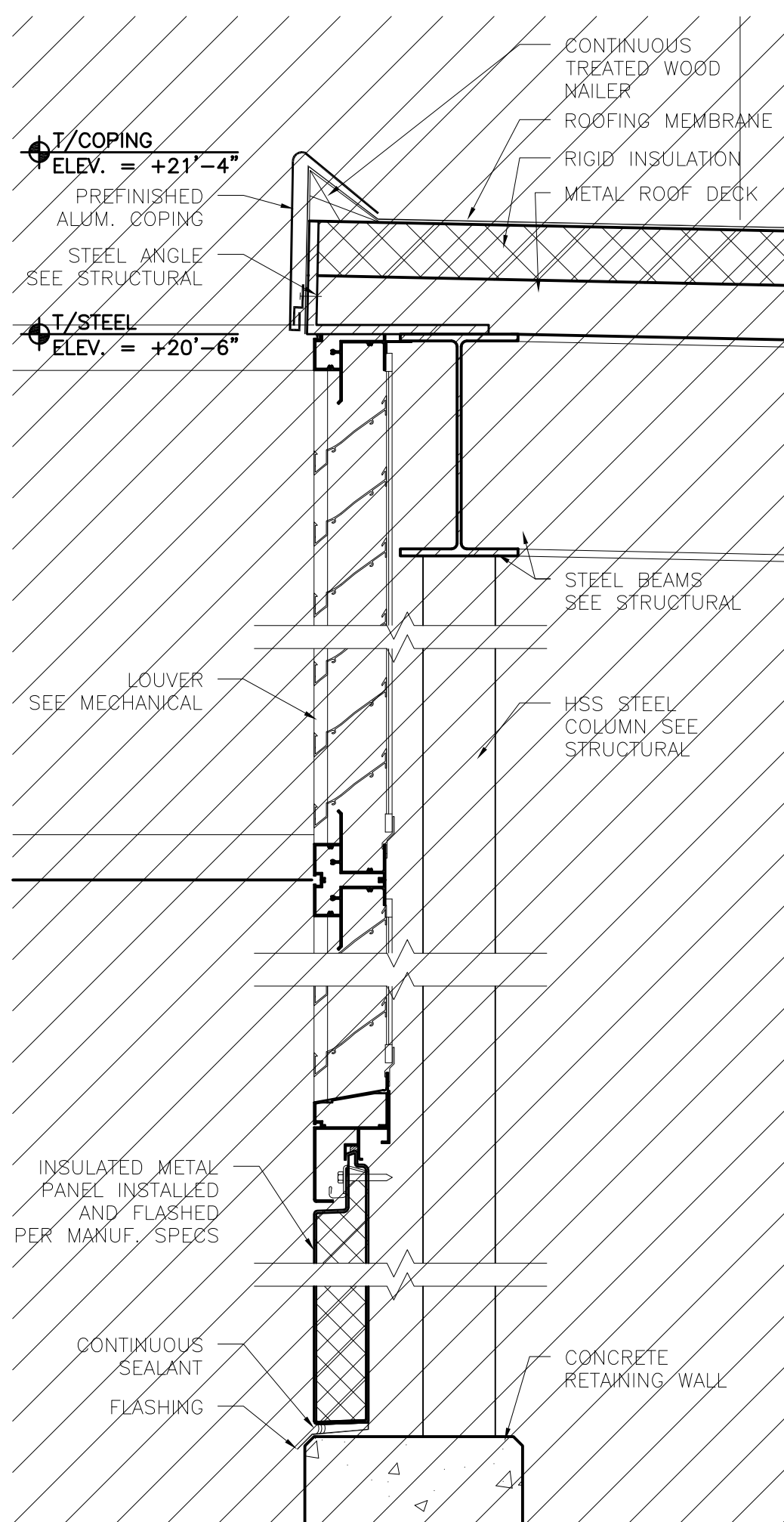
**9 SECTION DETAIL @CURVED ROOF TRENCH DRAIN**  
1 1/2" = 1'-0"



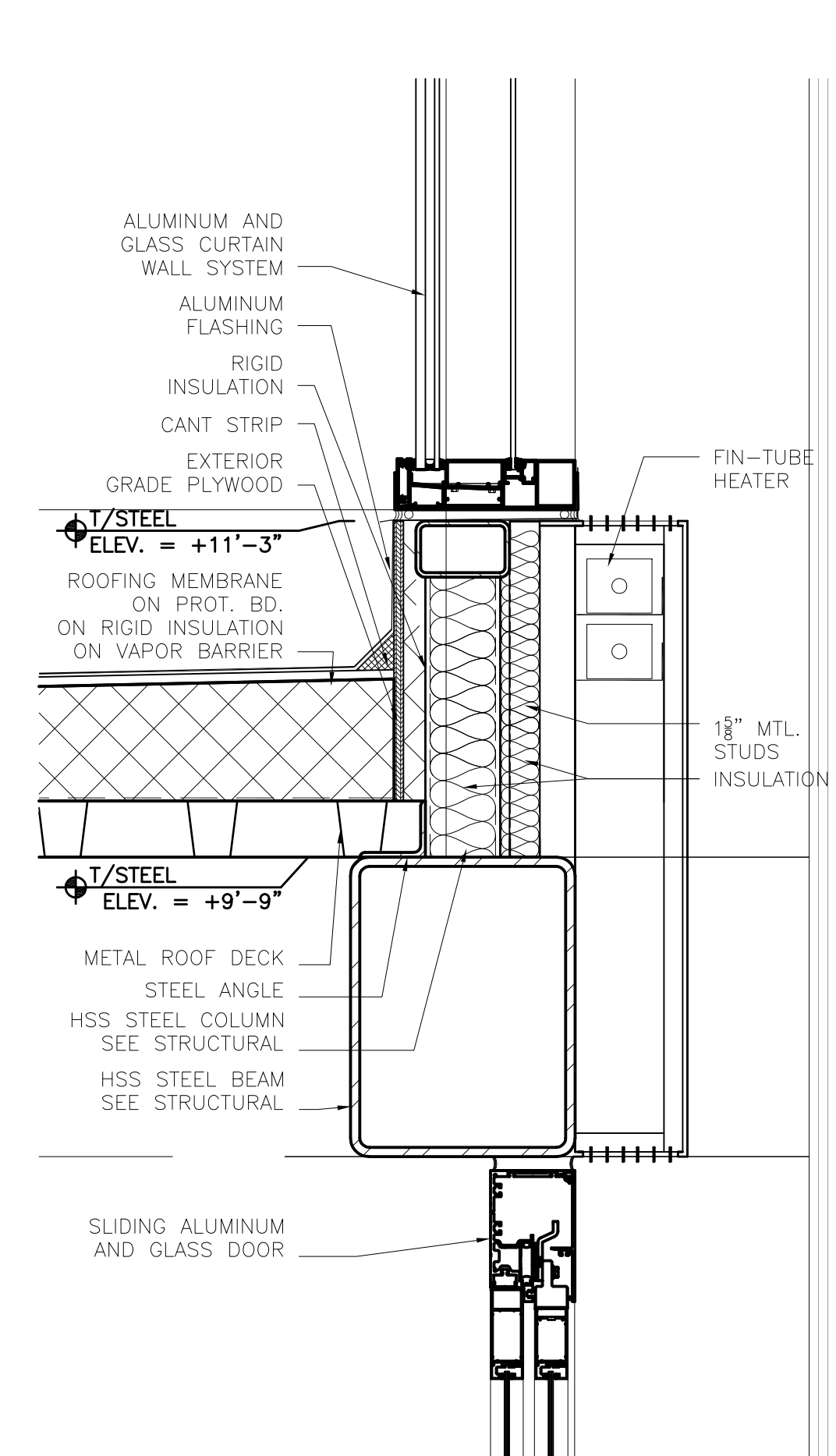
**5 EXPANSION JOINT DETAIL @ TUG DRIVE & CONCOURSE**  
1 1/2" = 1'-0"



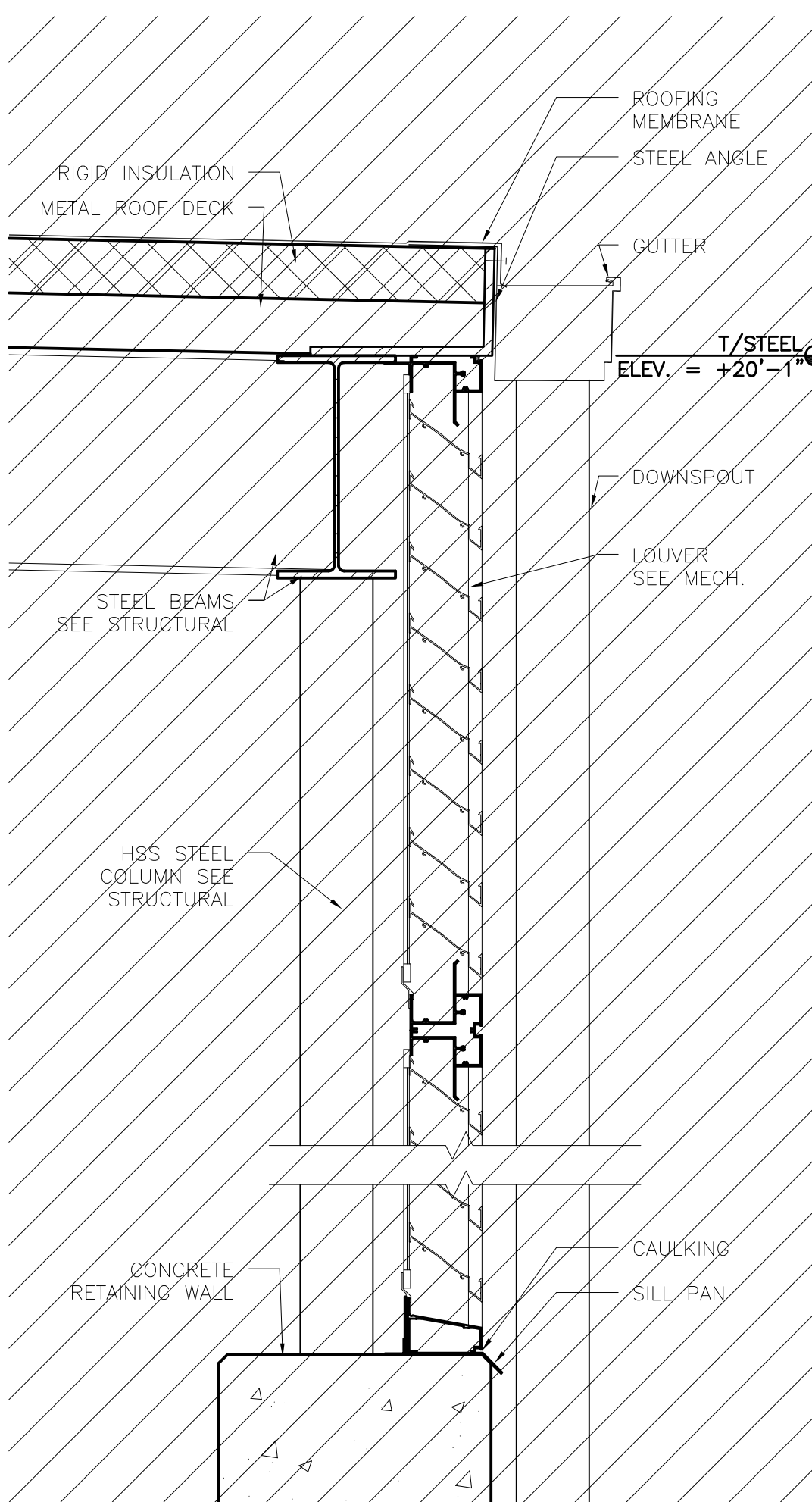
**3 SECTION DETAIL @ VESTIBULE**  
1 1/2" = 1'-0"



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



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



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

**CONSULTANTS**

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

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Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

AEP PROJECT NUMBER  
**213-1882-091**  
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SHEET TITLE  
**SECTION DETAILS**

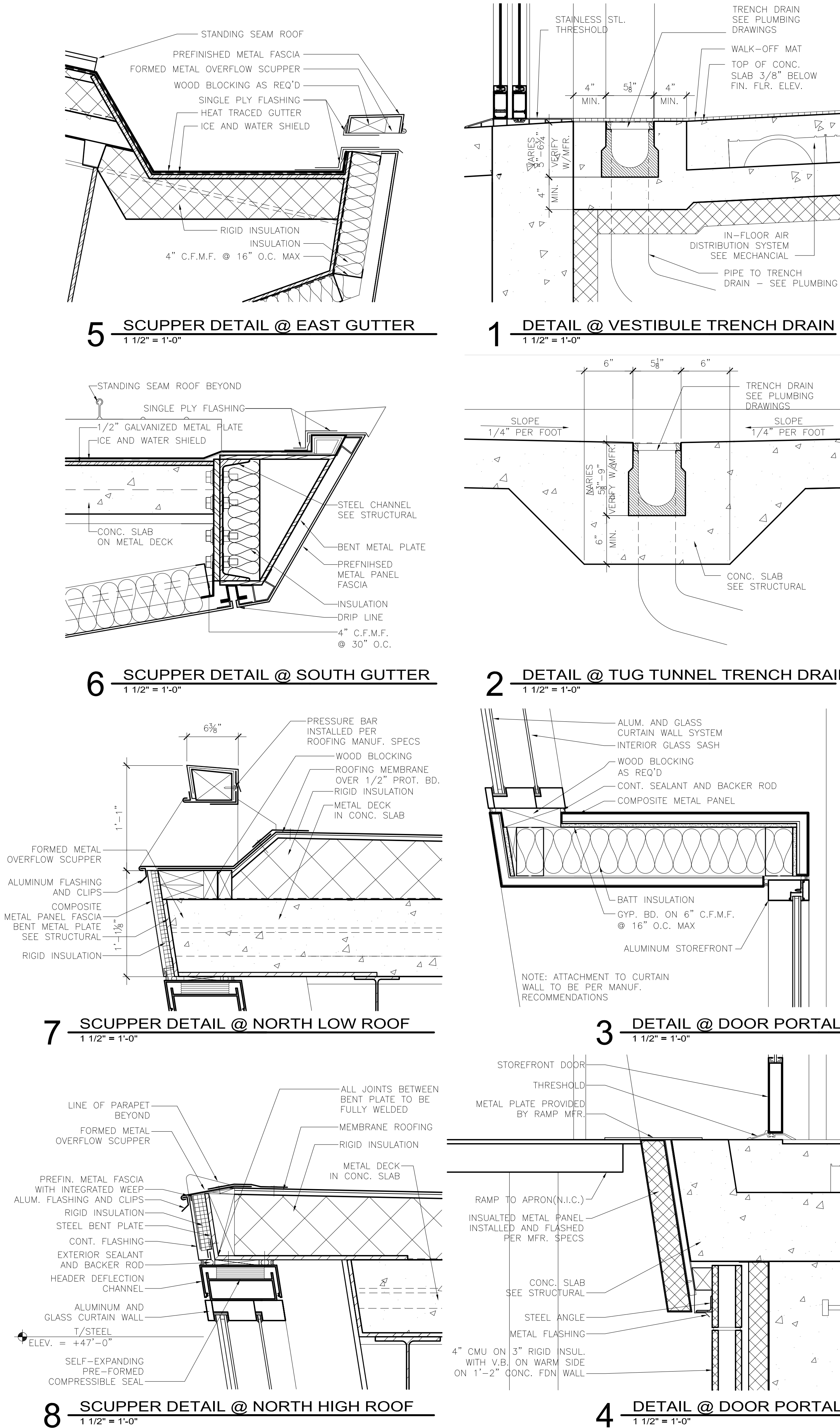
SHEET NUMBER

**A520**

**BUILDING PERMIT**







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AIRPORT  
DULUTH, MN**

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TERMINAL**

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Date: 06-03-10 Reg. No: 46001

REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED: 08-16-10  
REVIEWED BY: TC/SBS  
DRAWN BY: MG/MI  
DESIGNED BY: TC/SBS  
AEP PROJECT NUMBER  
213-1882-091  
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**SHEET TITLE**  
**SECTION  
DETAILS**

**SHEET NUMBER**  
**A522**  
**BUILDING  
PERMIT**

Reynolds, Smith and Hills, Inc.  
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Duluth, Minnesota 55811  
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INTERNATIONAL  
AIRPORT  
DULUTH, MN

NEW PASSENGER  
TERMINAL

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1	ADDENDUM 1	6.11.10
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DATE ISSUED: 08-16-10  
REVIEWED BY: TC/SBS  
DRAWN BY: MG/MI  
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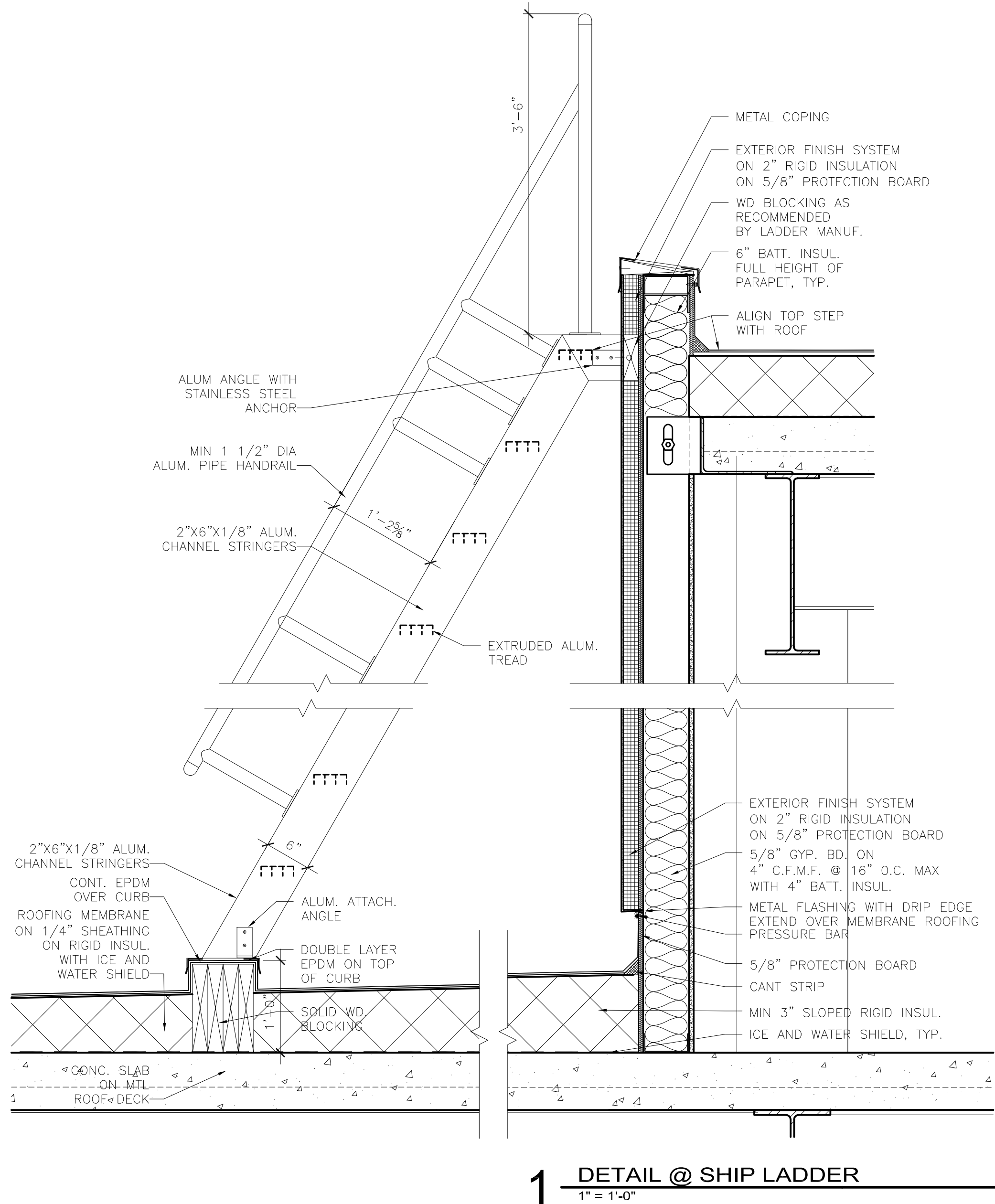
AEP PROJECT NUMBER  
213-1882-091  
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SHEET TITLE  
SECTION  
DETAILS

SHEET NUMBER

A523

BUILDING  
PERMIT

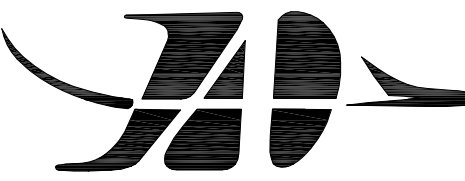


1 DETAIL @ SHIP LADDER  
1" = 1'-0"





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**Duluth, Minnesota 55811**  
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INTERNATIONAL  
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DULUTH, MN**

## NEW PASSENGER TERMINAL

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DRAWN BY: I

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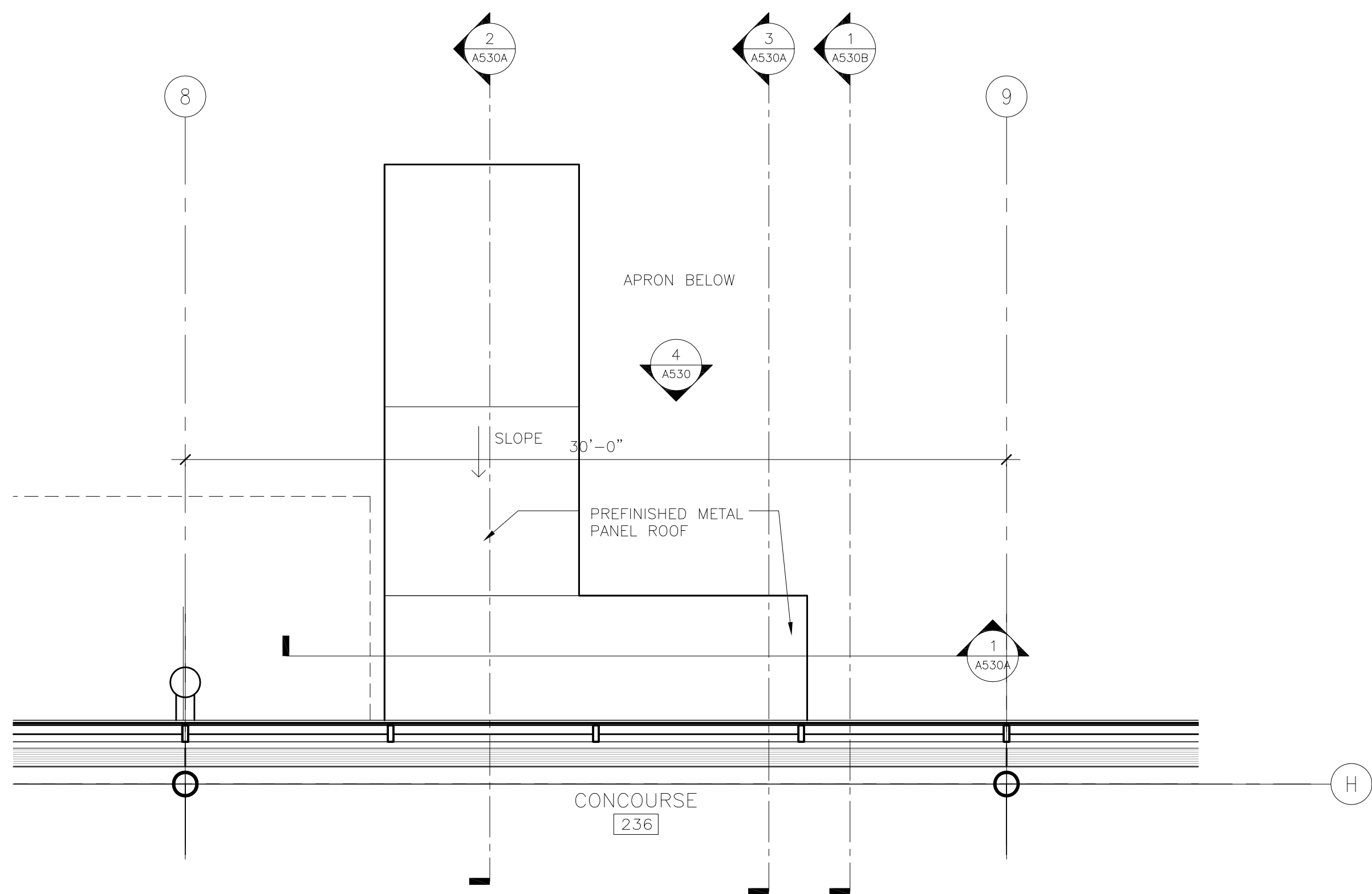
**SHEET TITLE**

## EXTERIOR SYSTEMS VERTICAL CIRCULATION

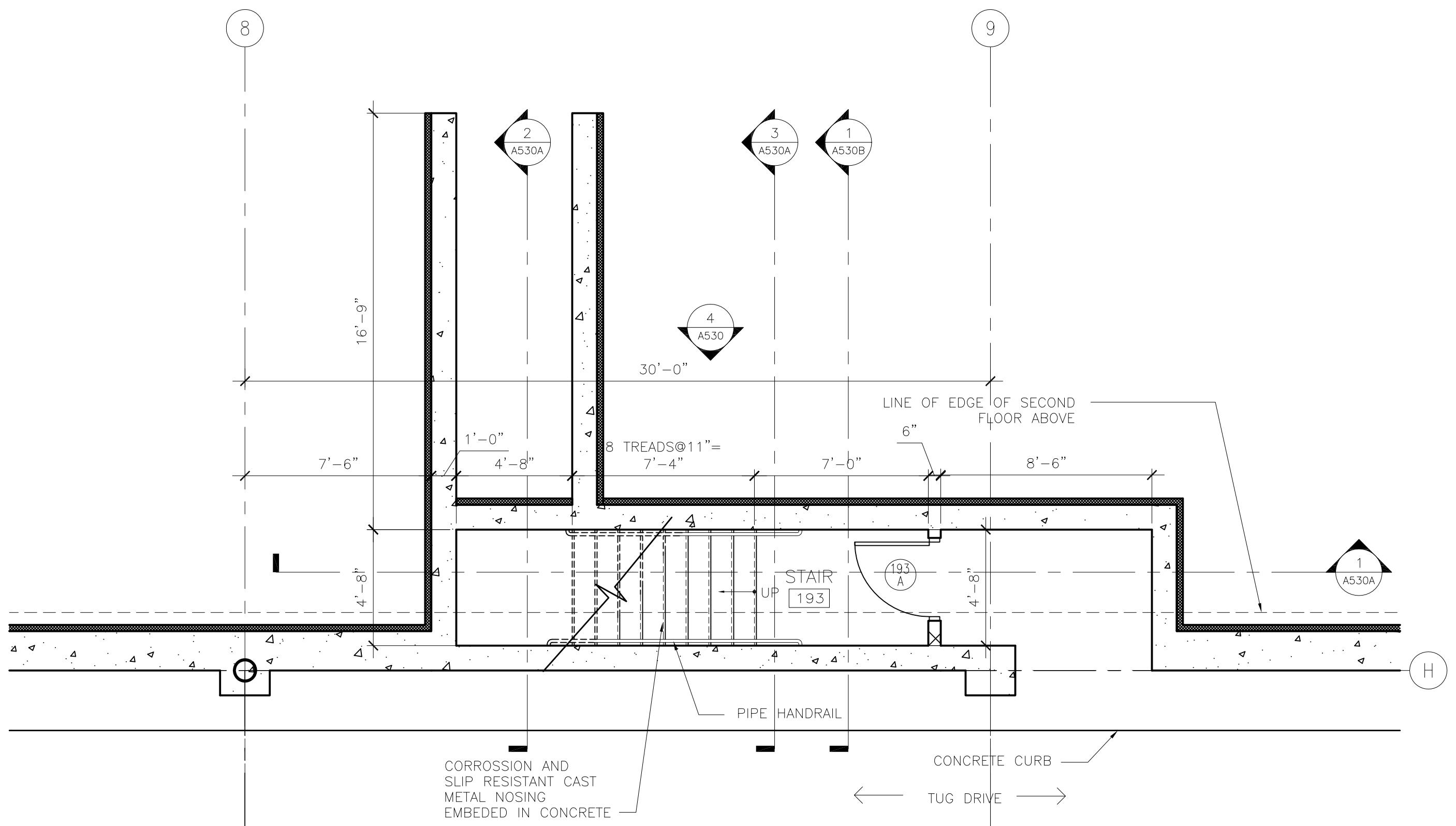
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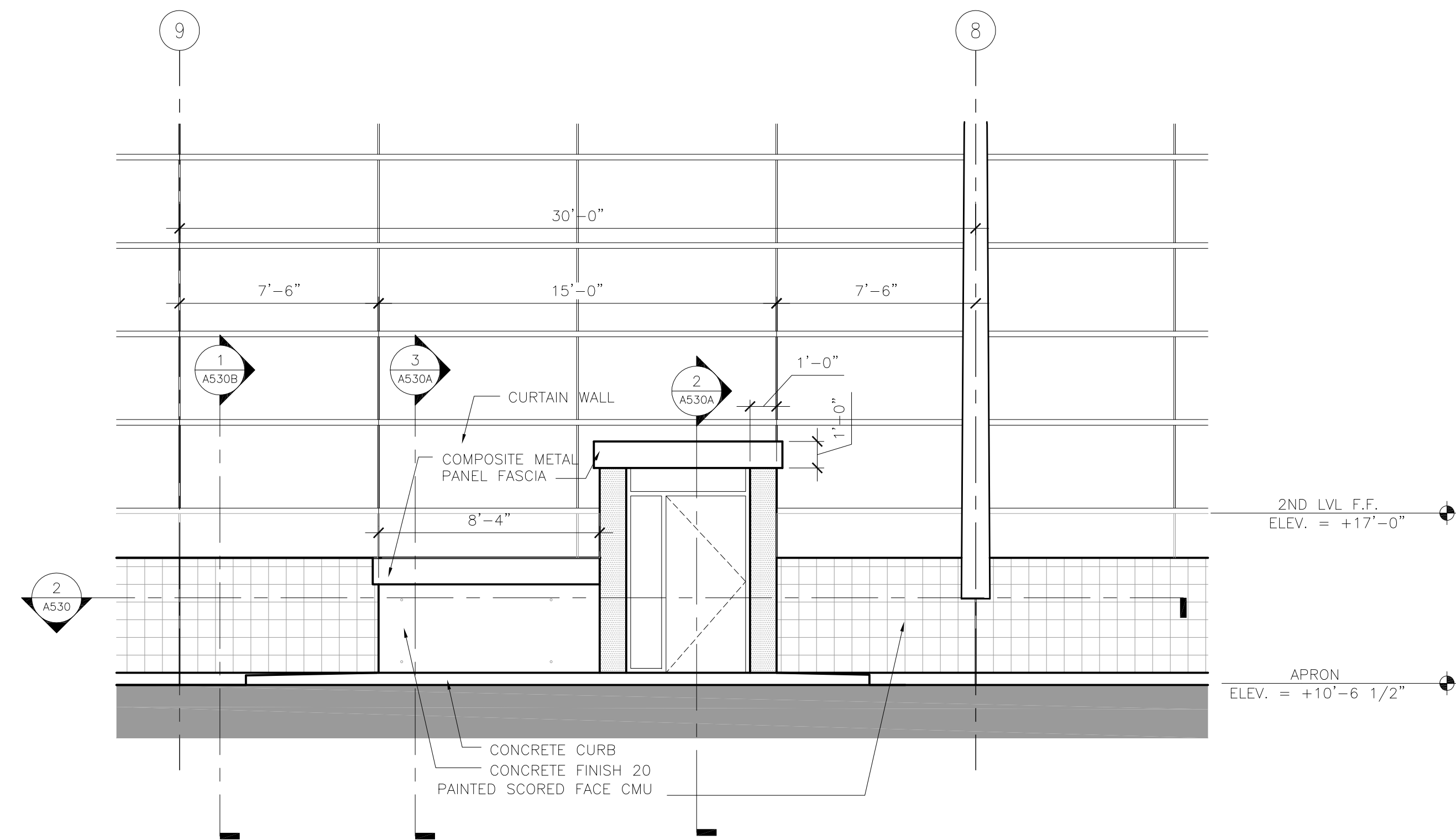
# BUILDING PERMIT



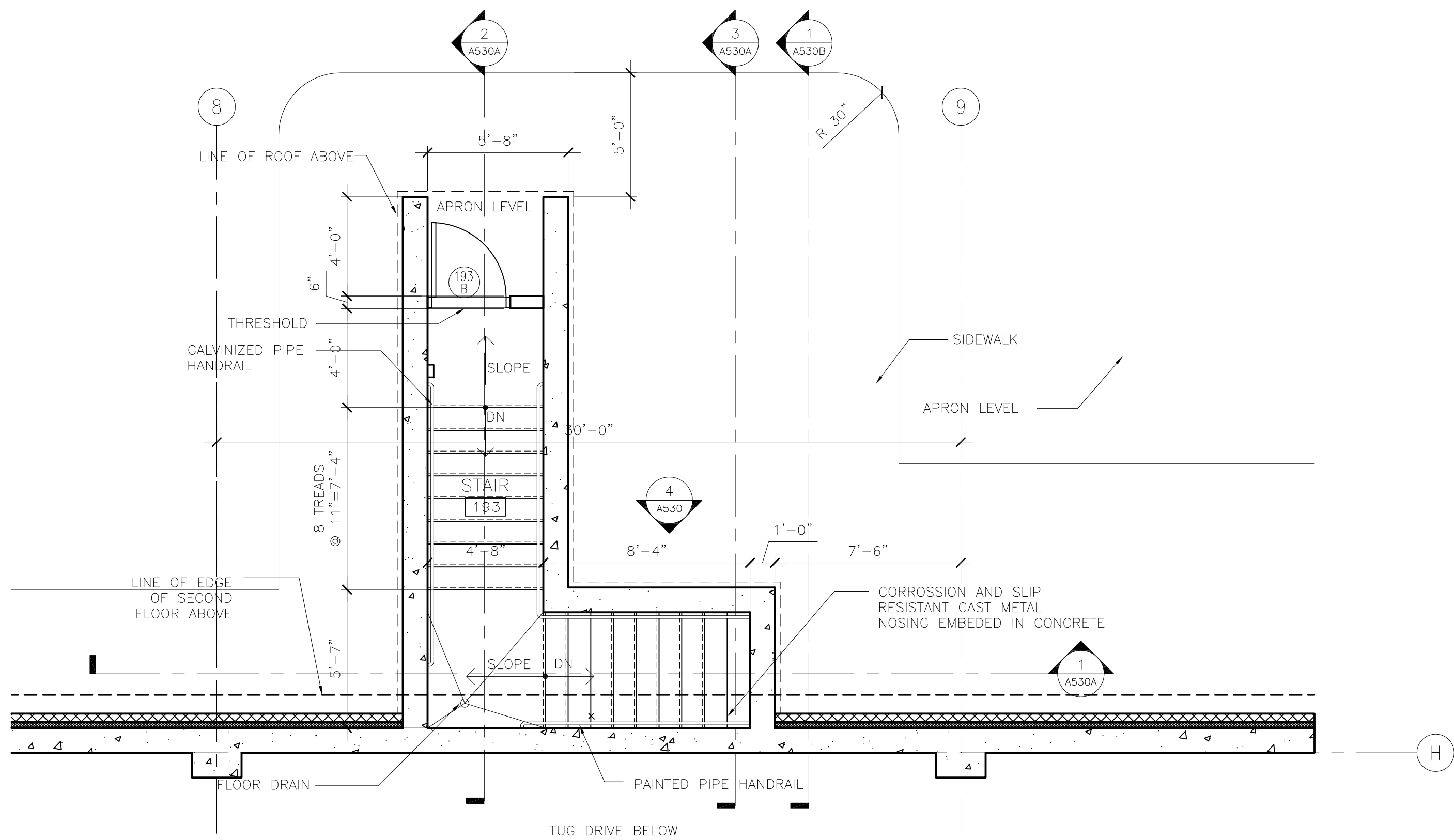
### 3 SECOND LEVEL PARTIAL FLOOR PLAN AND STAIR ROOF PLAN



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



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



## 2 STAIR PLAN @ APRON LEVEL

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DRAWN BY: MK

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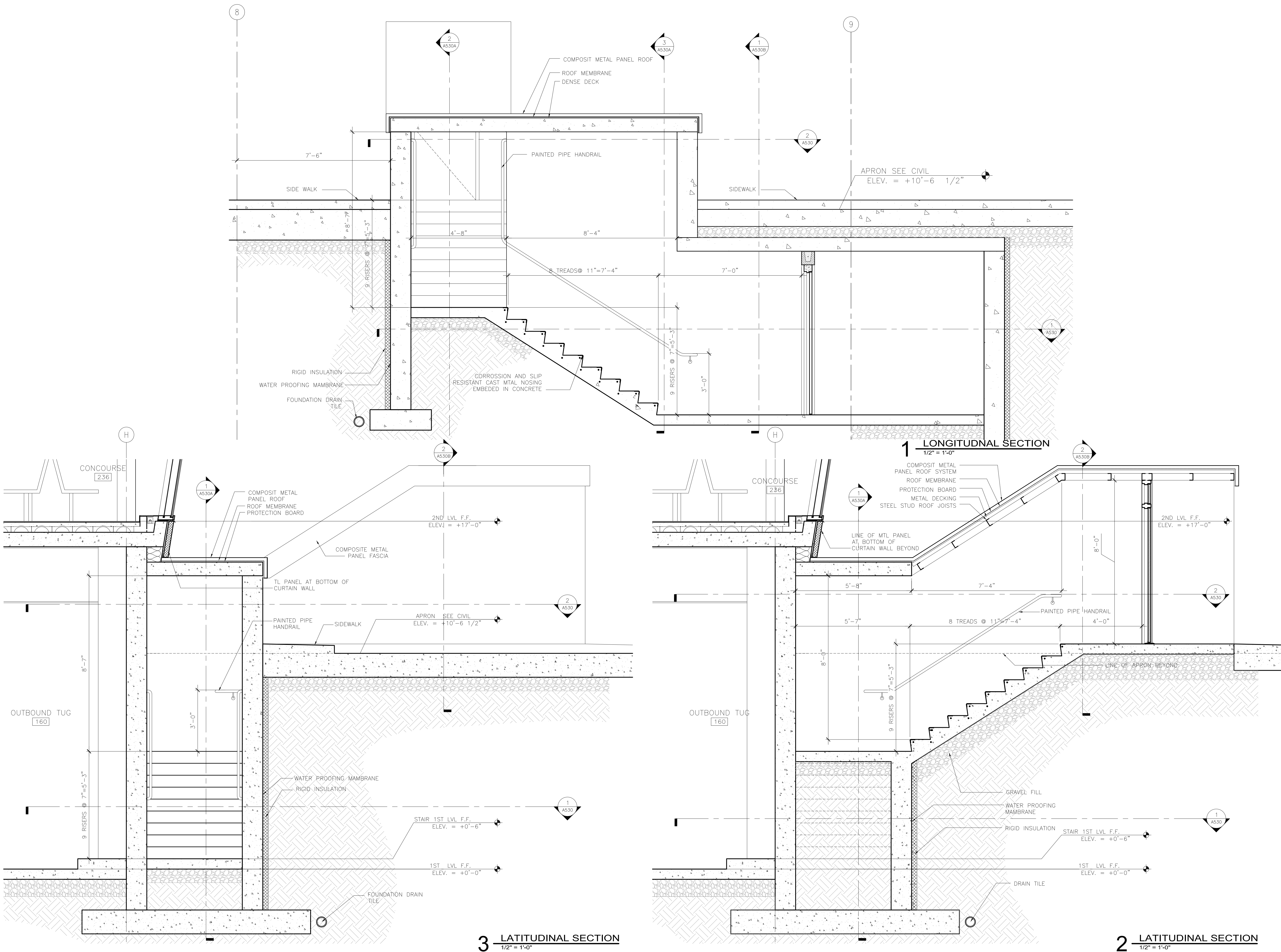
SHEET TITLE

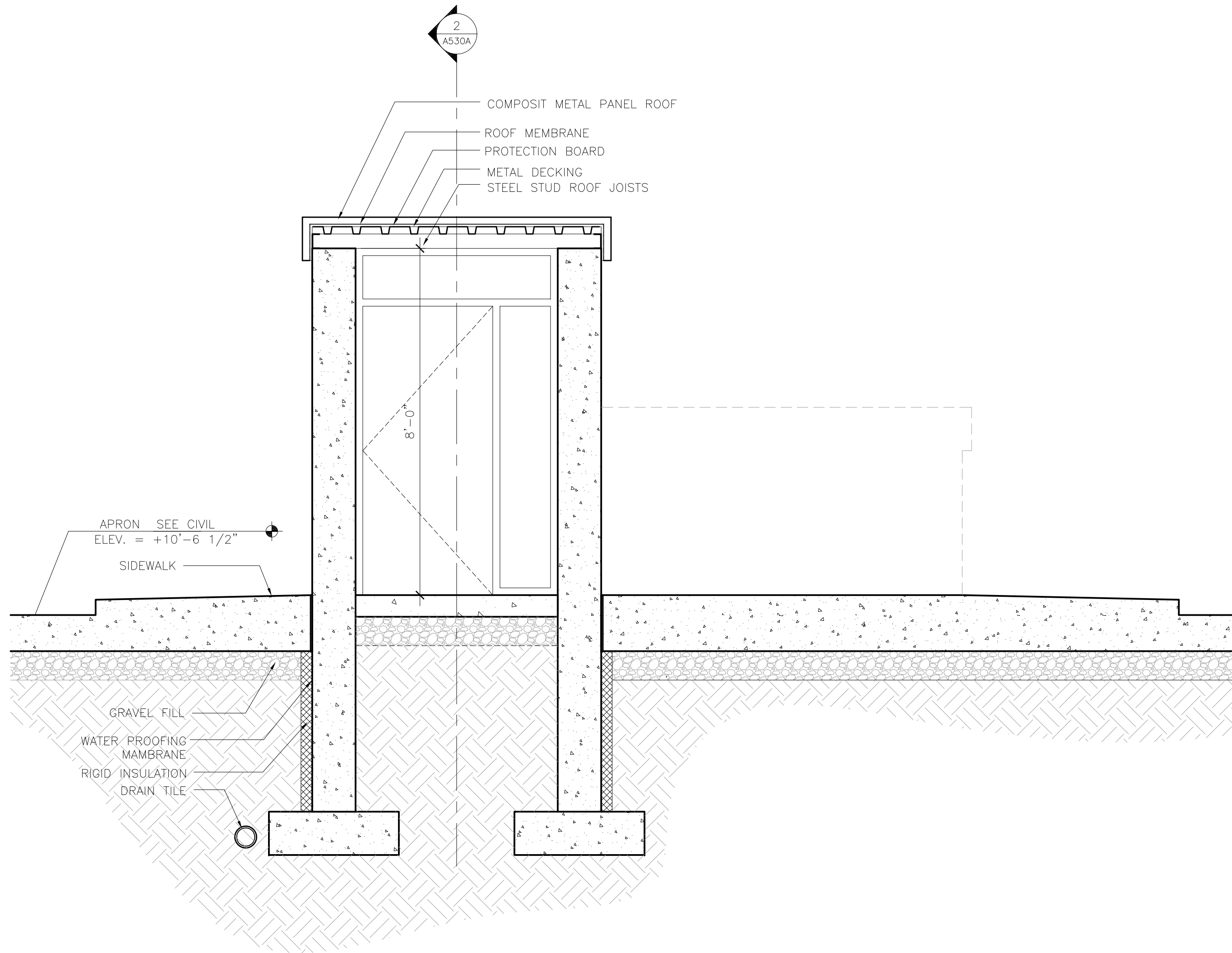
**EXTERIOR SYSTEMS  
VERTICAL  
CIRCULATION**

SHEET NUMBER

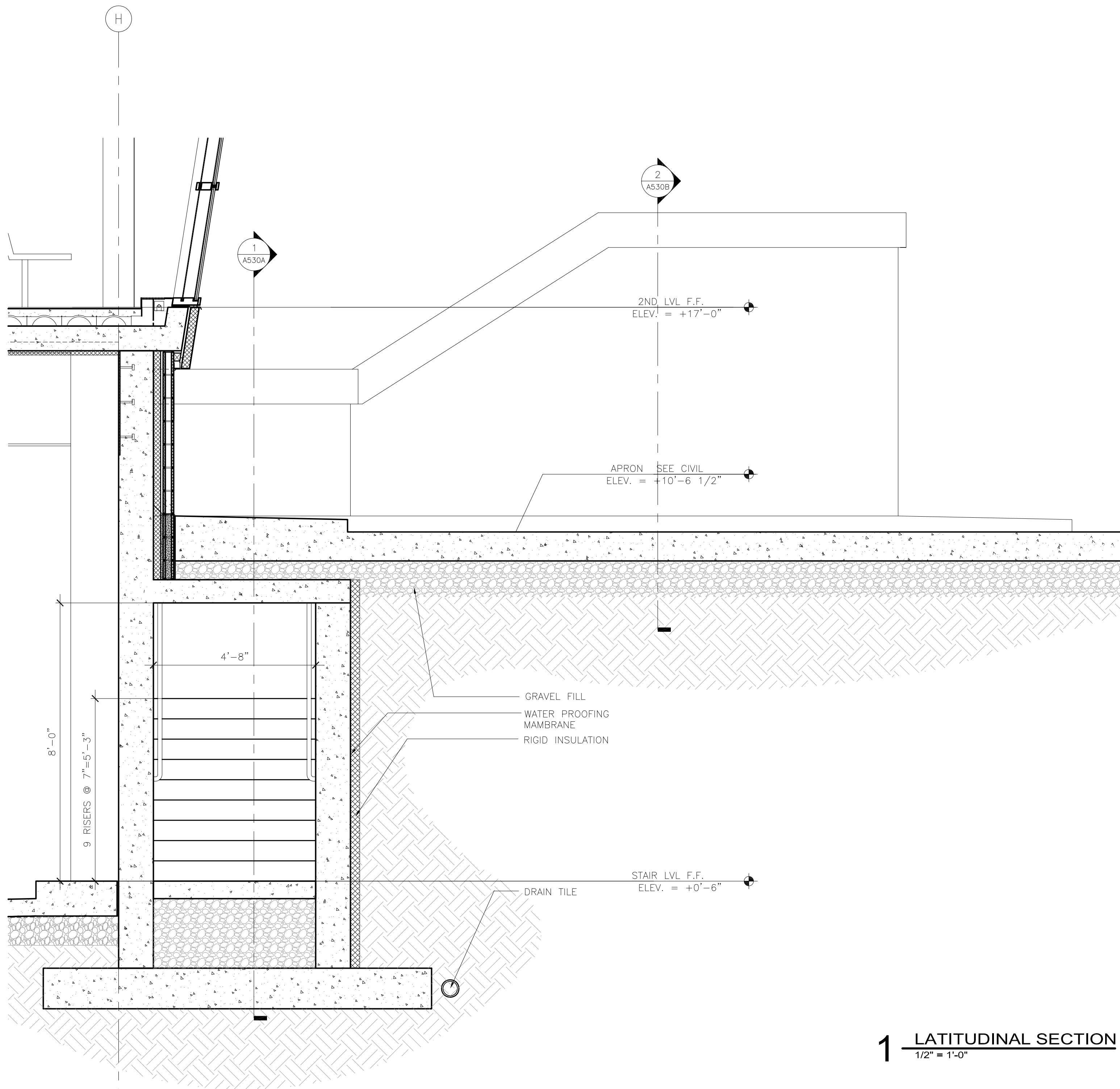
**A530A**

**BUILDING  
PERMIT**





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



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

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DULUTH, MN**

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

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

**ARCHITECTURAL CERTIFICATION**  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: TC

DRAWN BY: MK

DESIGNED BY: SBS

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

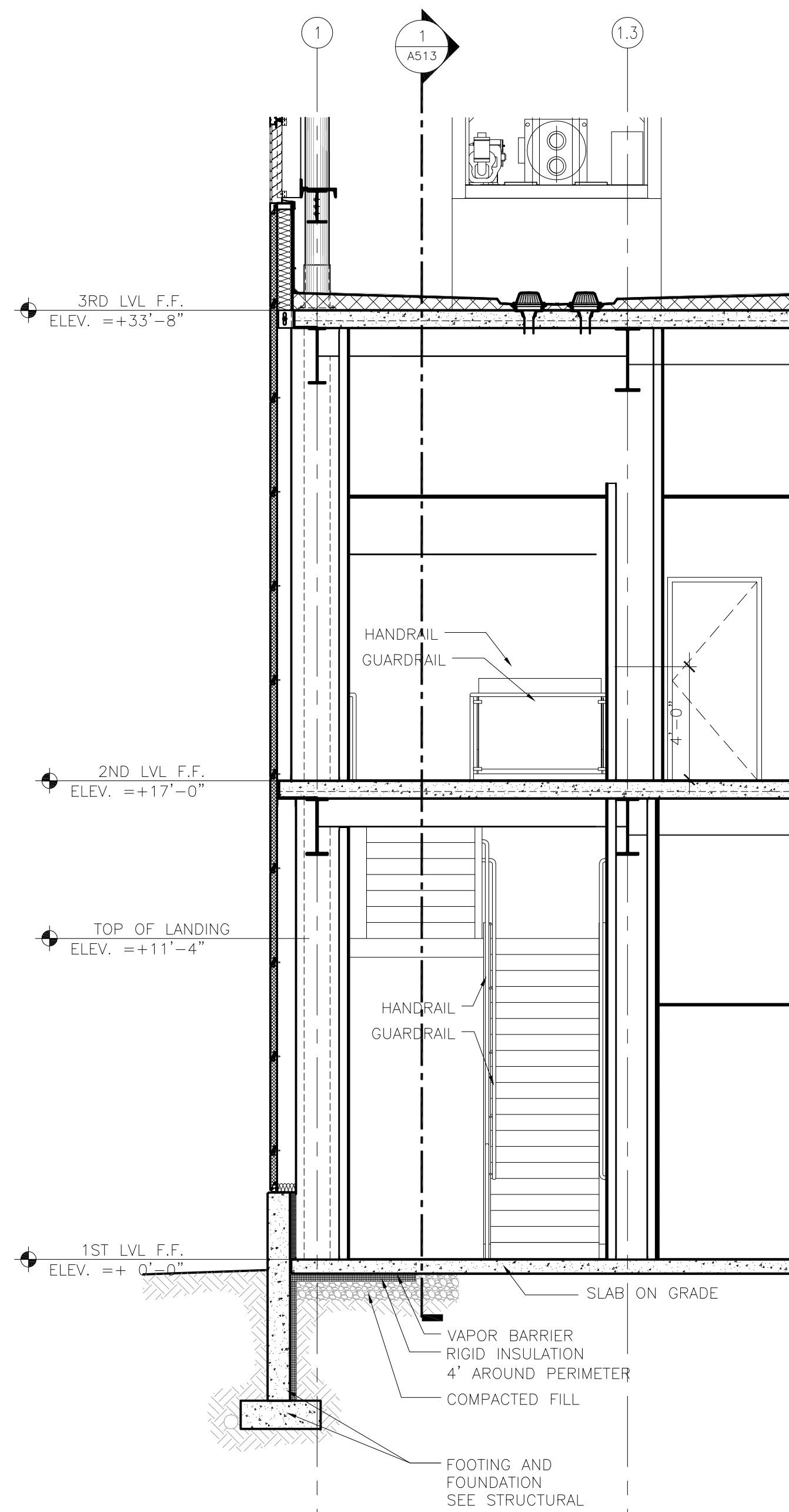
**EXTERIOR SYSTEMS  
VERTICAL  
CIRCULATION**

SHEET NUMBER

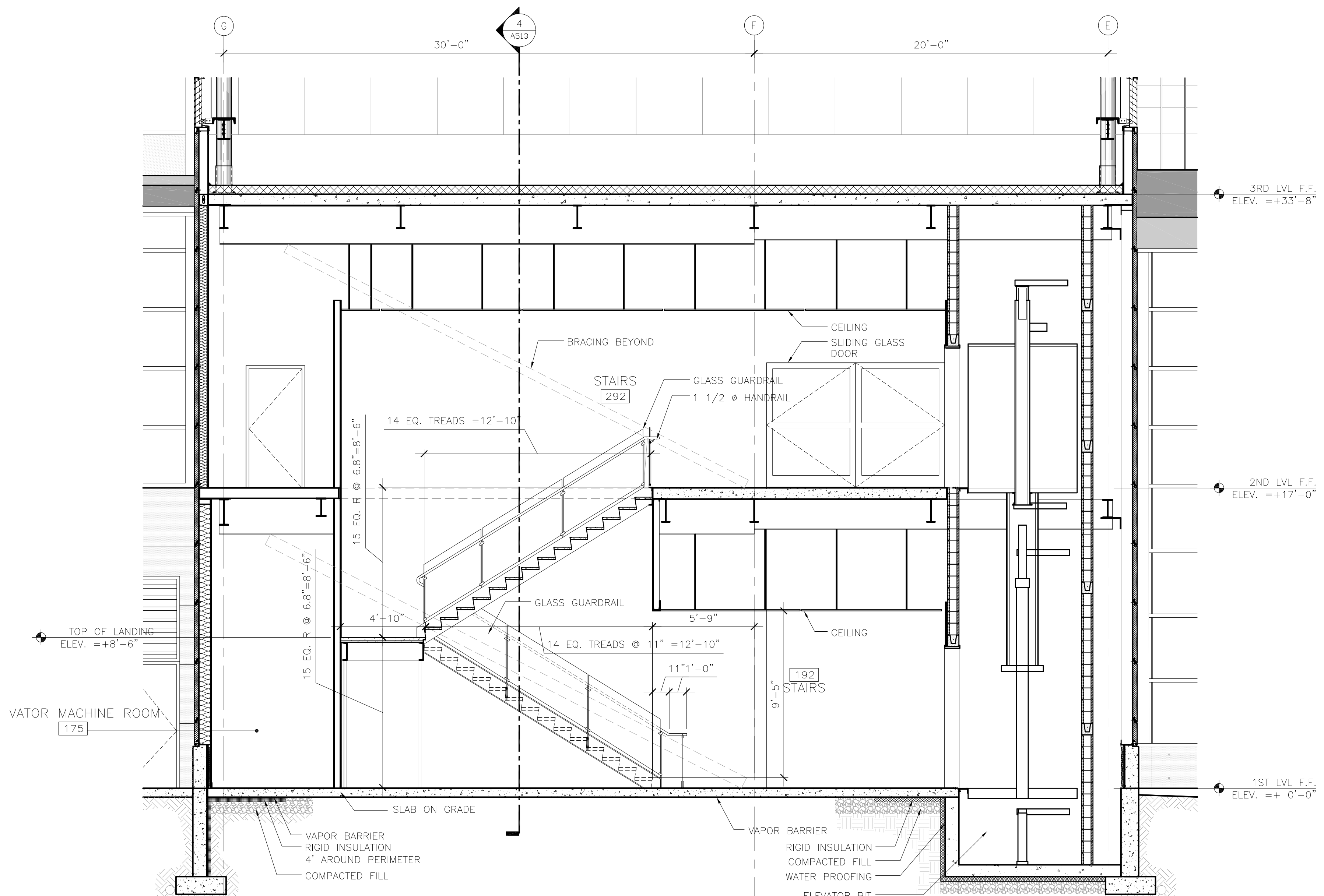
**A530B**

**BUILDING  
PERMIT**

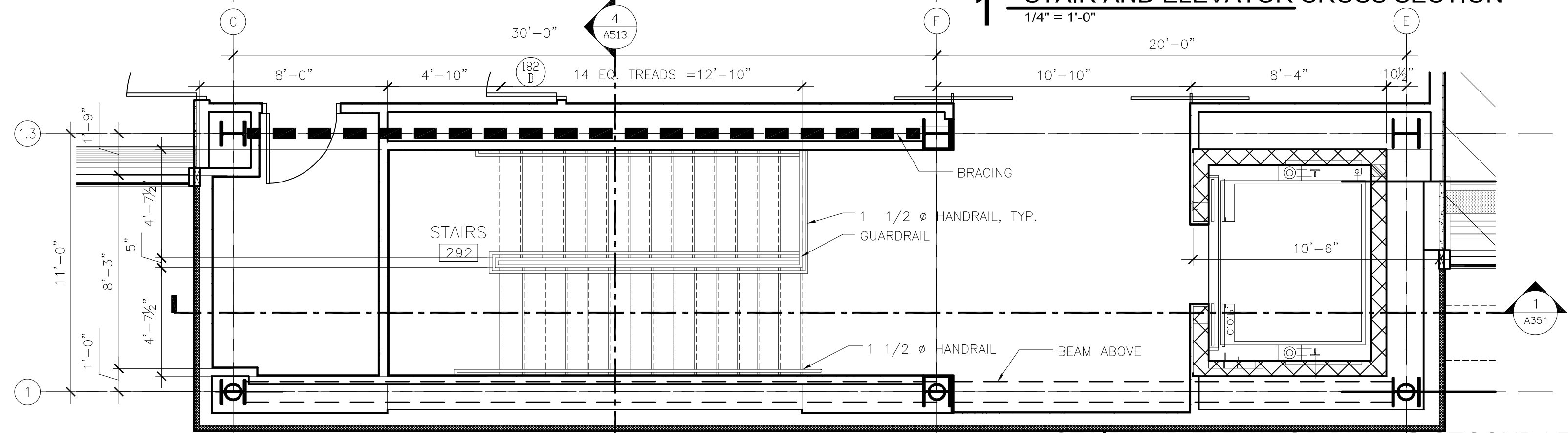




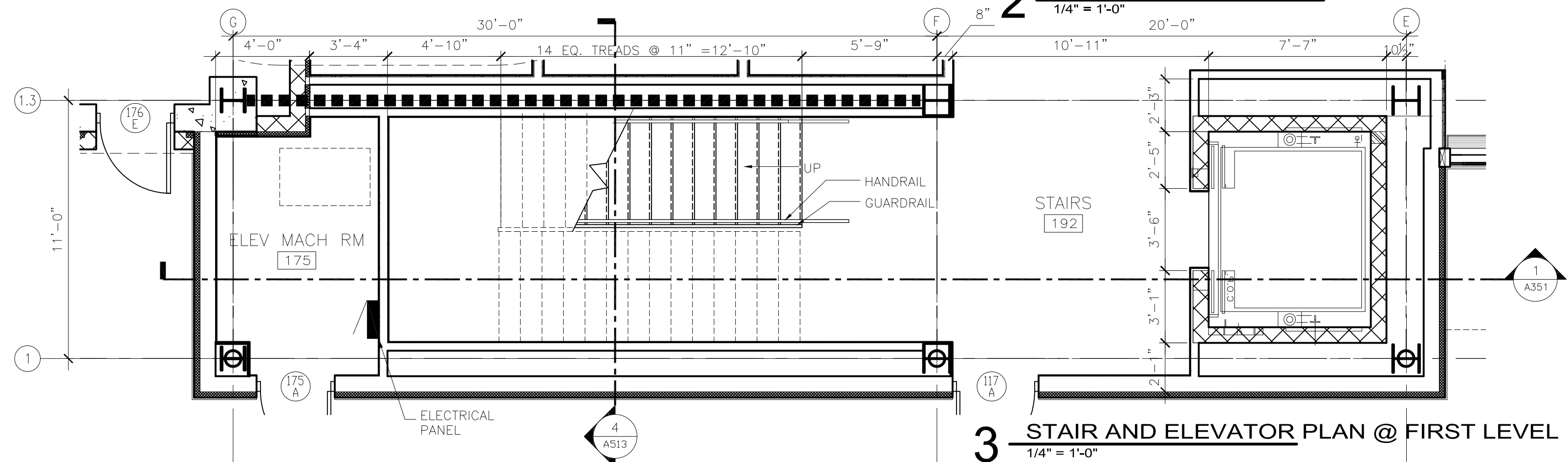
4 STAIR LONGITUDNAL SECTION  
1/4" = 1'-0"



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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Date: 06-03-10 Reg. No.: 46001

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3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: XX

DRAWN BY: XX

DESIGNED BY: XX

A&P PROJECT NUMBER

213-1882-091

XXX.DWG 00 12:00p

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SHEET TITLE

**INTERIOR SYSTEMS  
VERTICAL  
CIRCULATION**

SHEET NUMBER

**A531**

**BUILDING  
PERMIT**

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NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: TC

DRAWN BY: MK/MIP

DESIGNED BY: TC/SBS

AEP PROJECT NUMBER

213-1882-091

XXX.DWG 08-16-10 12:00p

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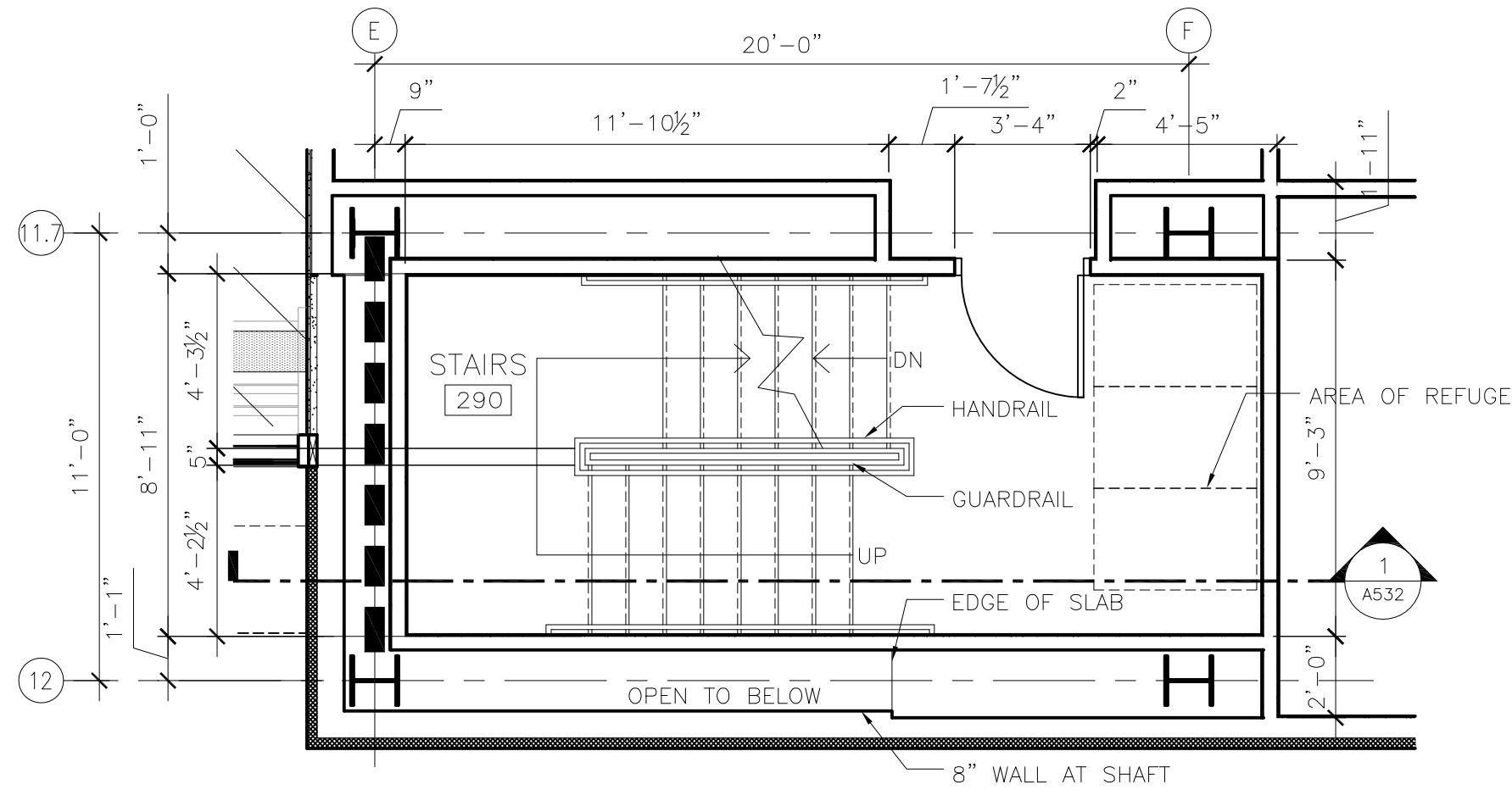
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INTERIOR SYSTEMS  
VERTICAL  
CIRCULATION

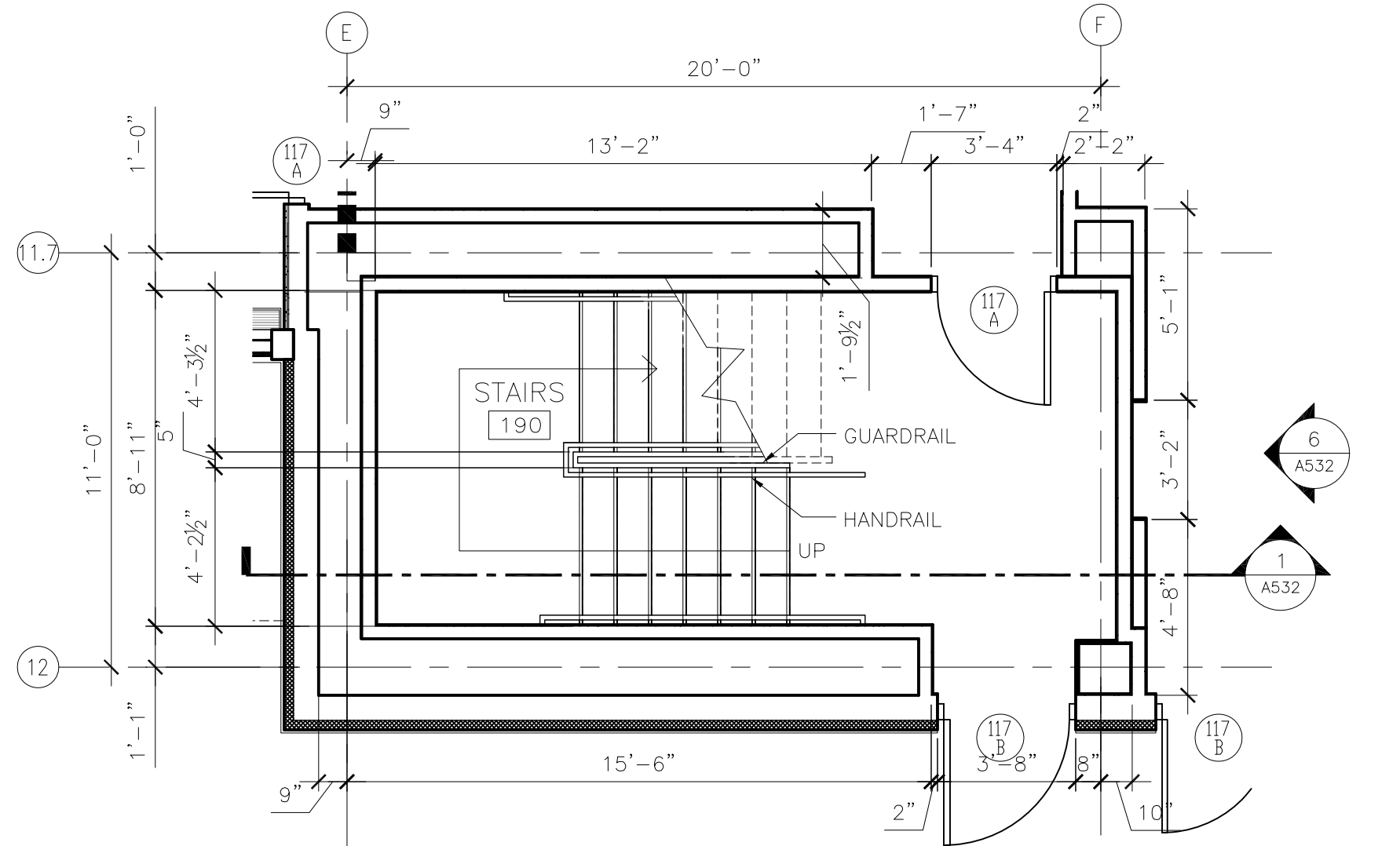
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A532

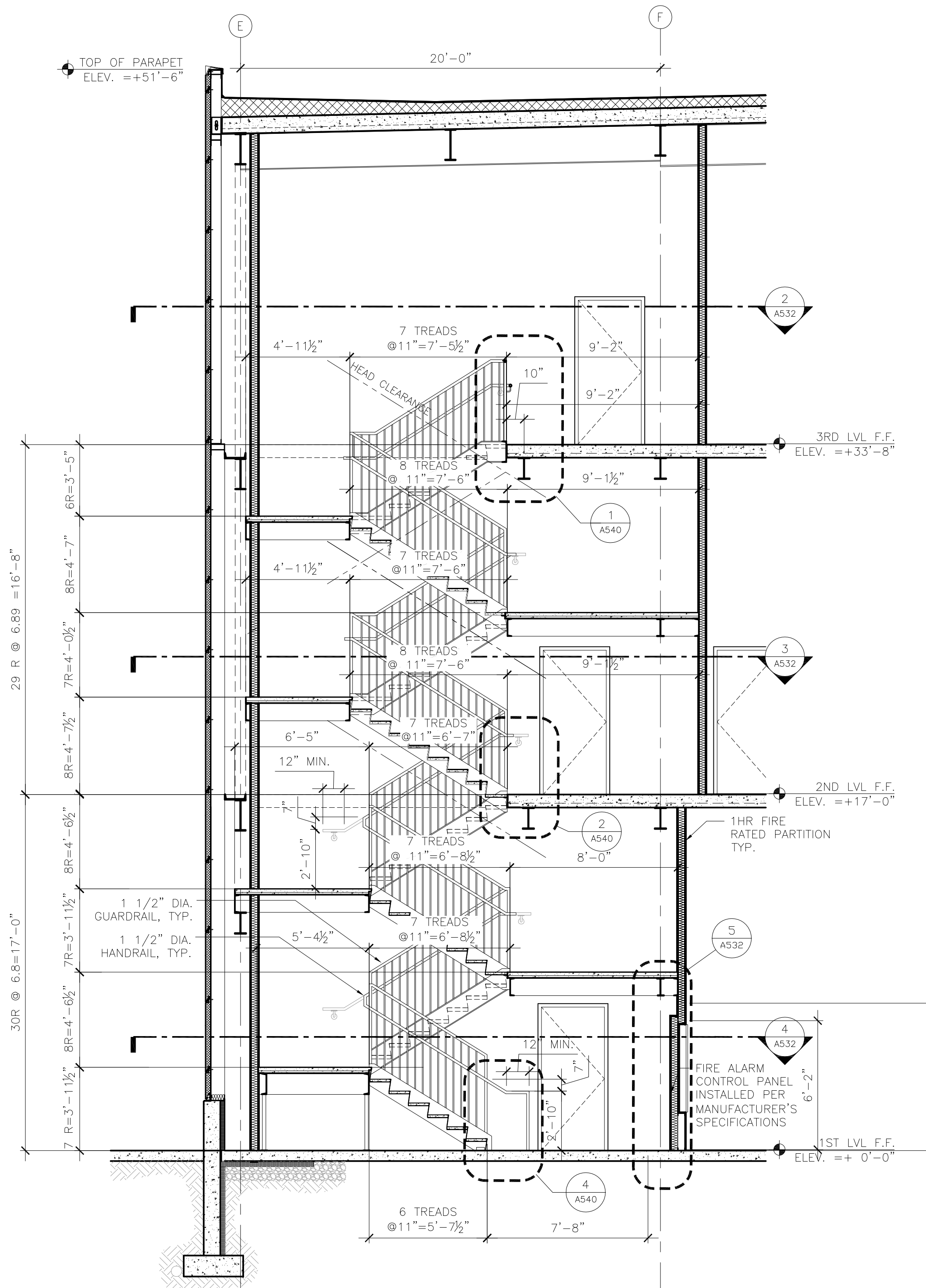
BUILDING  
PERMIT



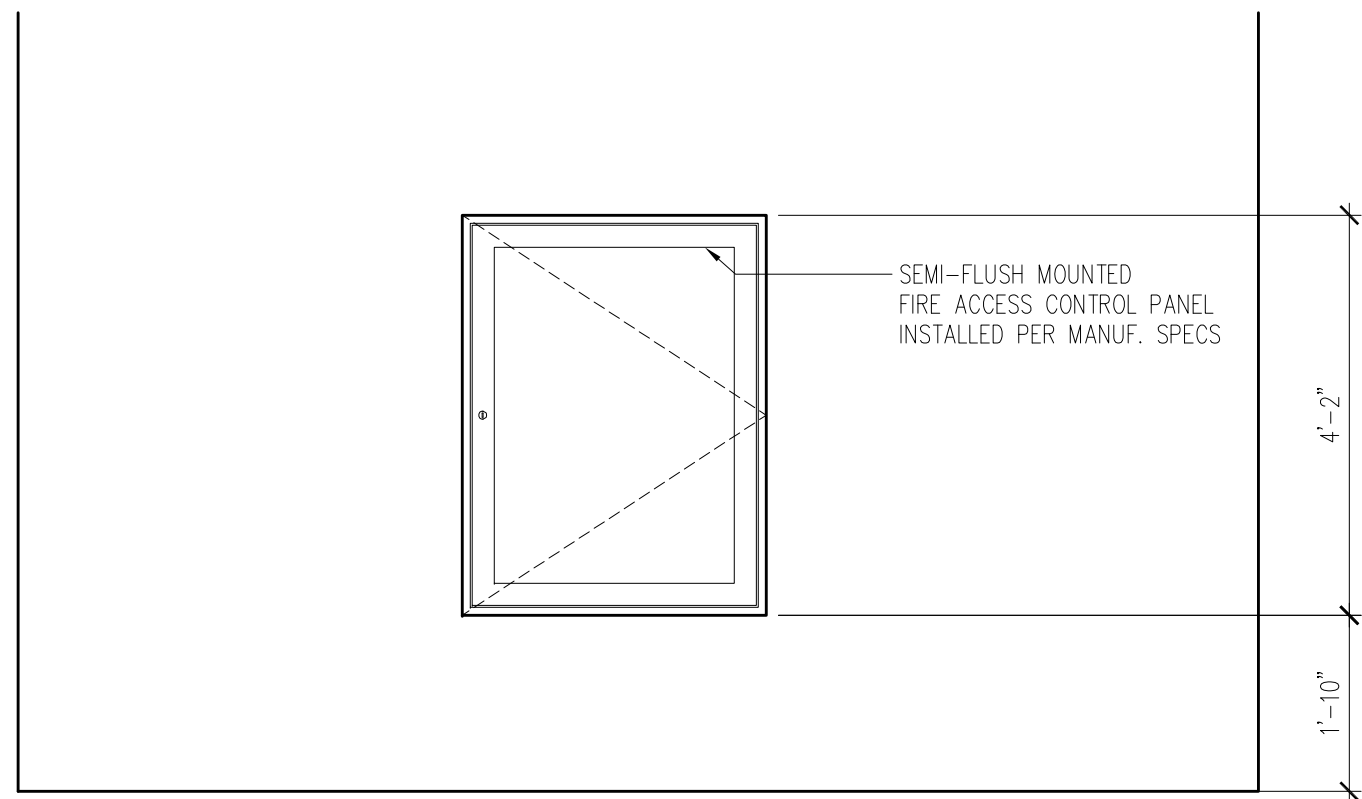
3 STAIR PLAN @ SECOND LEVEL  
1/4" = 1'-0"



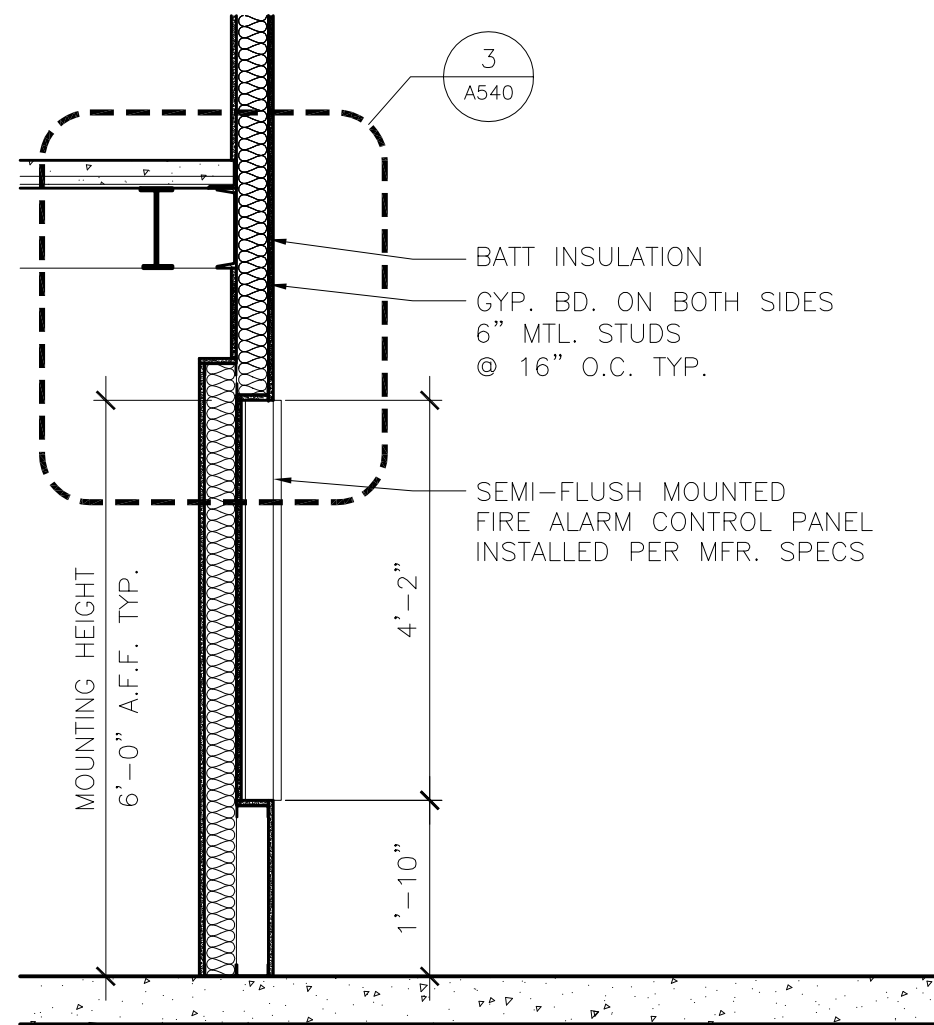
4 STAIR PLAN @ FIRST LEVEL  
1/4" = 1'-0"



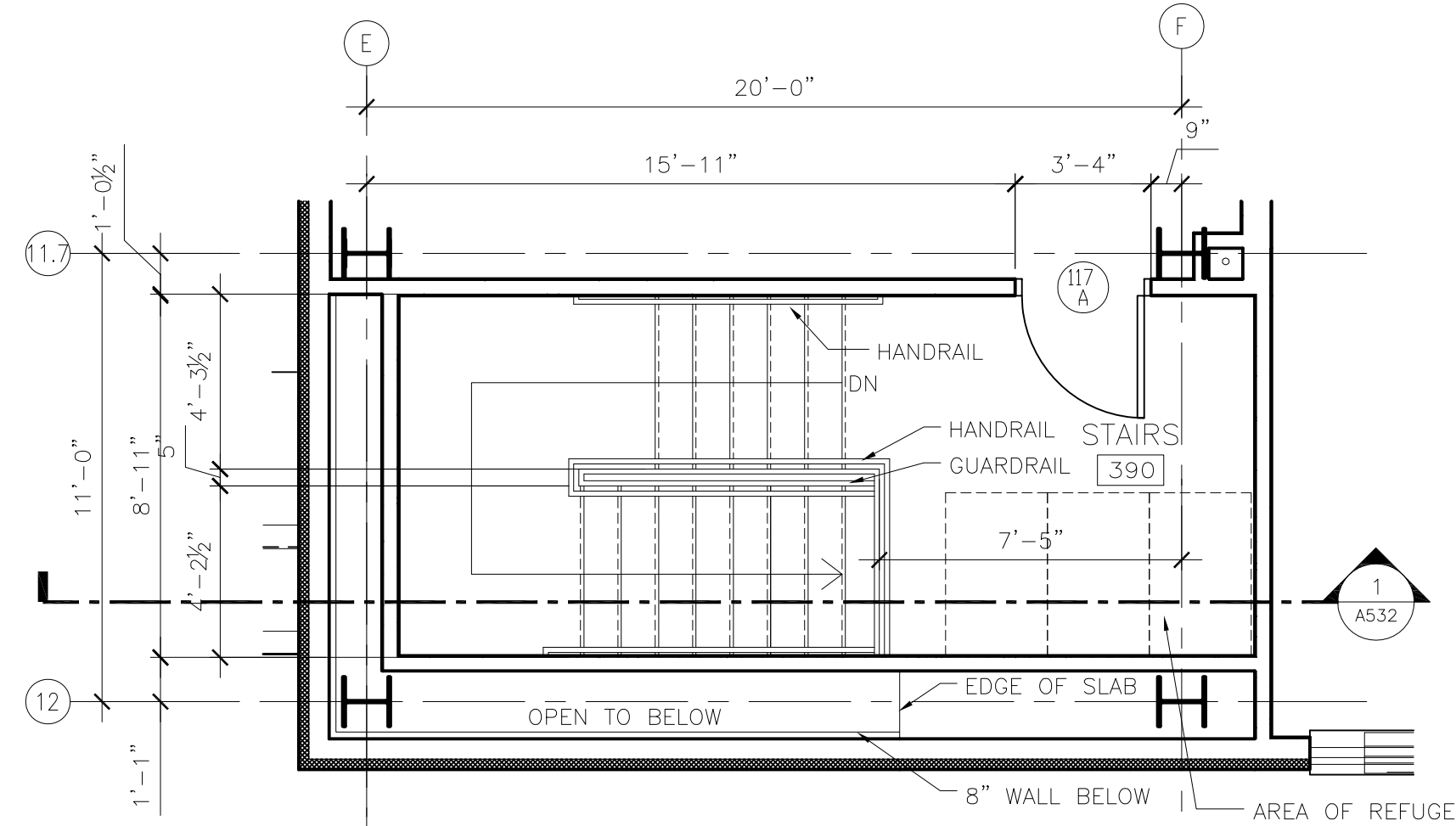
1 STAIR LONGITUDNAL SECTION  
1/4" = 1'-0"



6 INTERIOR ELEVATION  
1/2" = 1'-0"



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



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

**CONSULTANTS**

Interior Architects:  
**SJA ARCHITECTS**  
11 E Superior Street Suite 340, Duluth MN 55802  
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**MBJ CONSULTING ENG.**  
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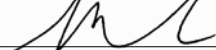
M/E/P/F Engineers:  
**COSENTINI ASSOCIATES INC.**  
1 South Wacker Drive, 37th Floor, Chicago IL 60606  
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Signature: 

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: TC

DRAWN BY: MI/MK

DESIGNED BY: SBC/TC

AEP PROJECT NUMBER

**213-1882-091**

XXX.DWG 08-16-10 12:00p

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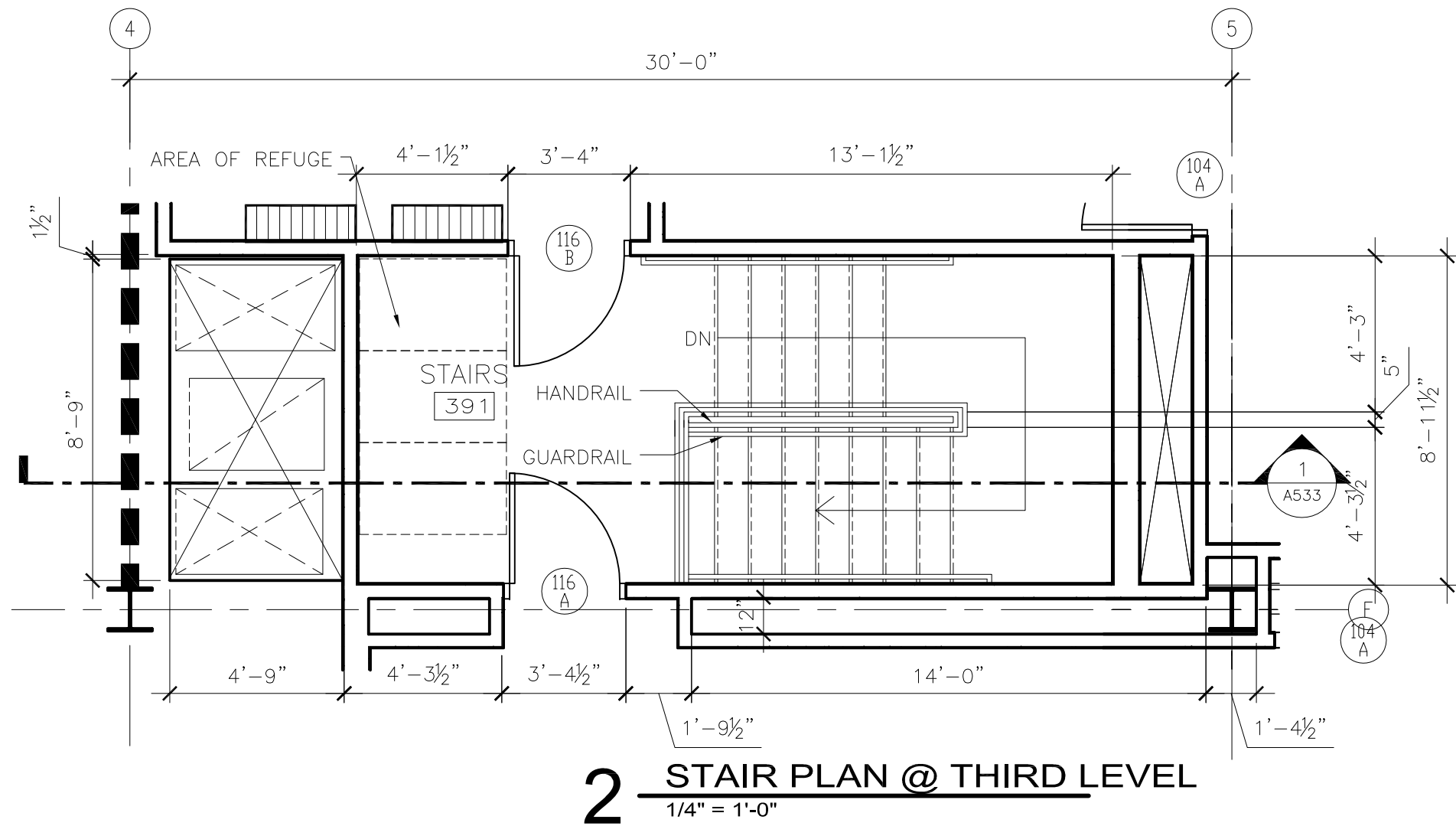
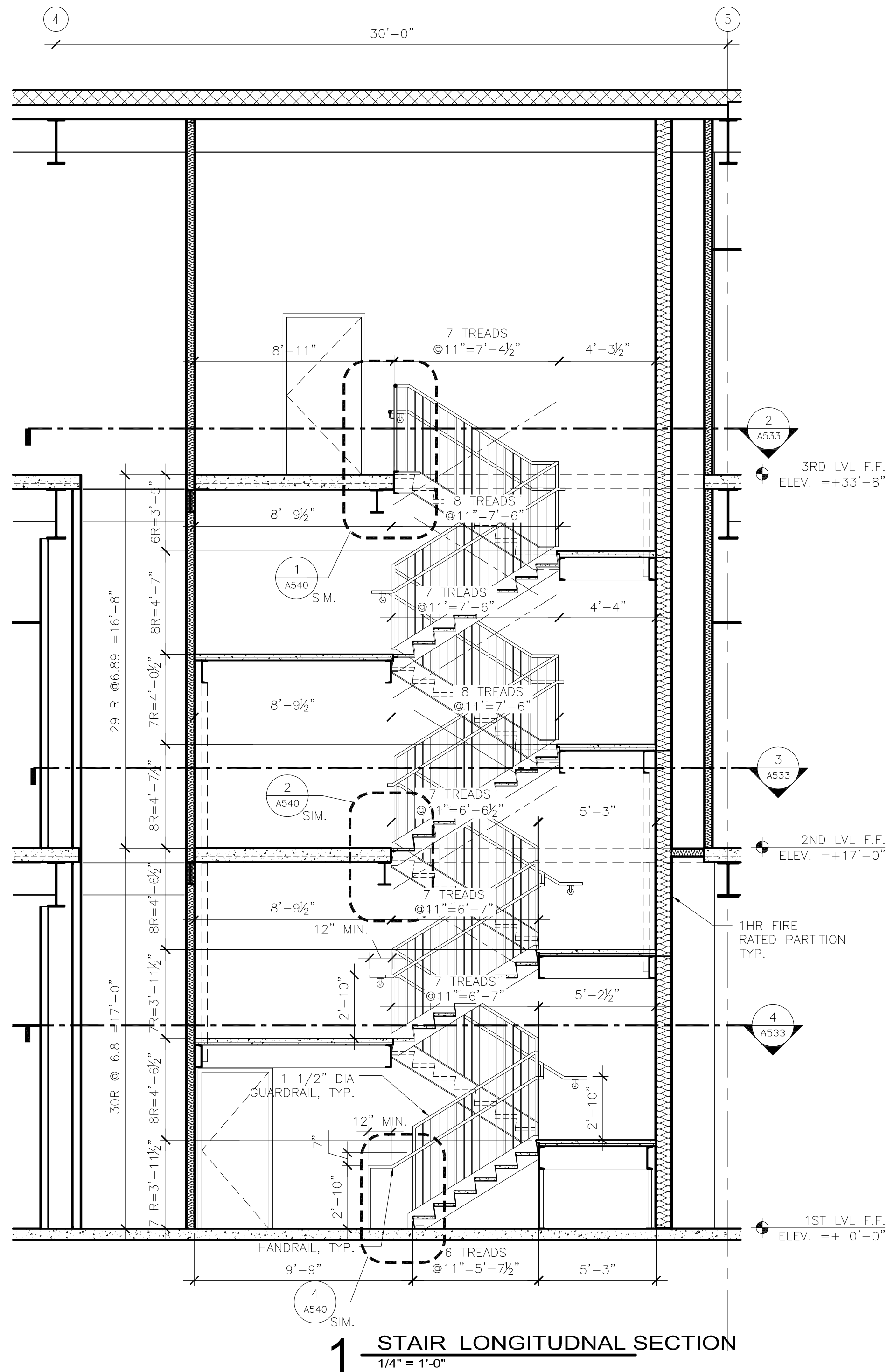
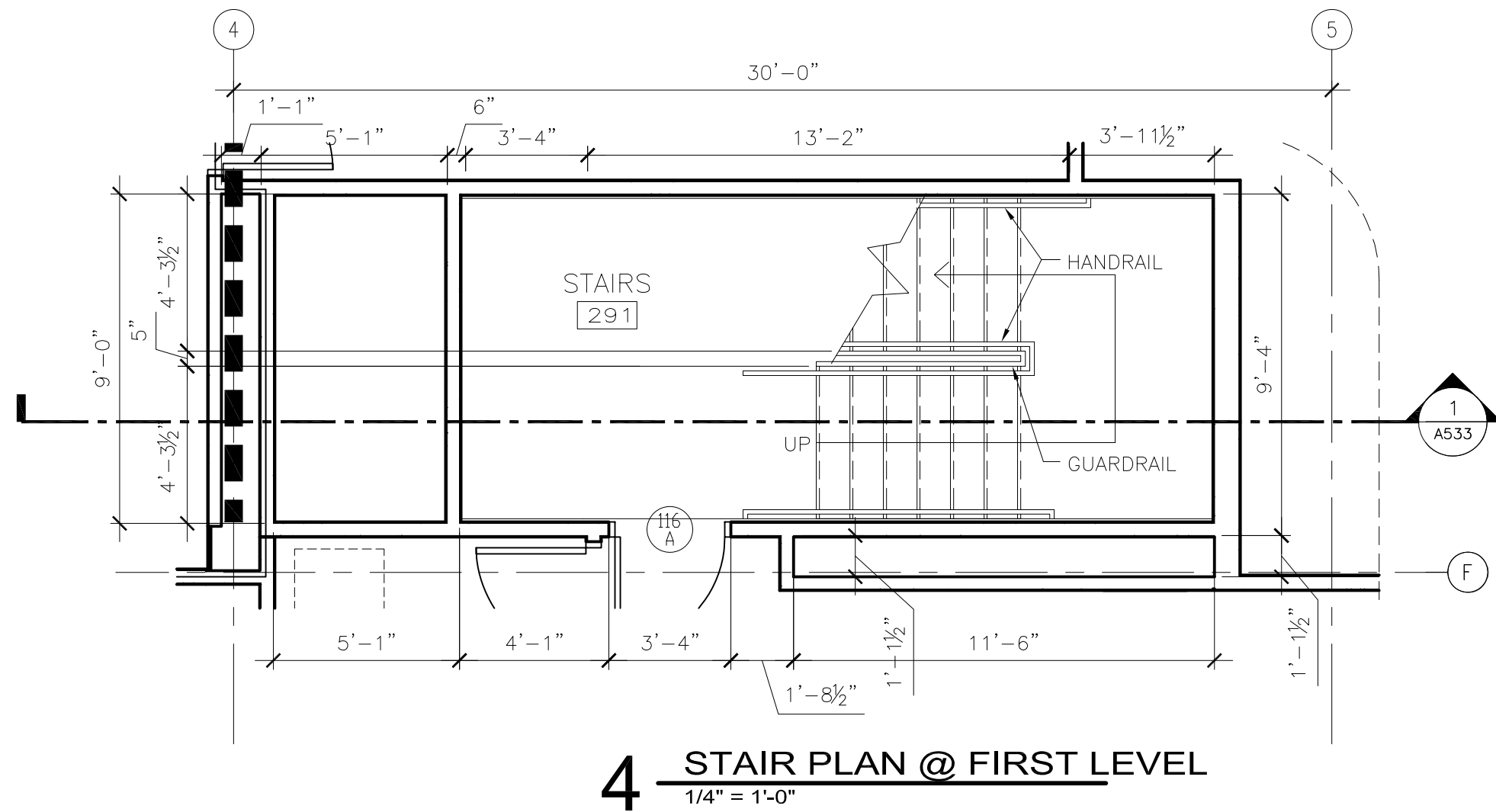
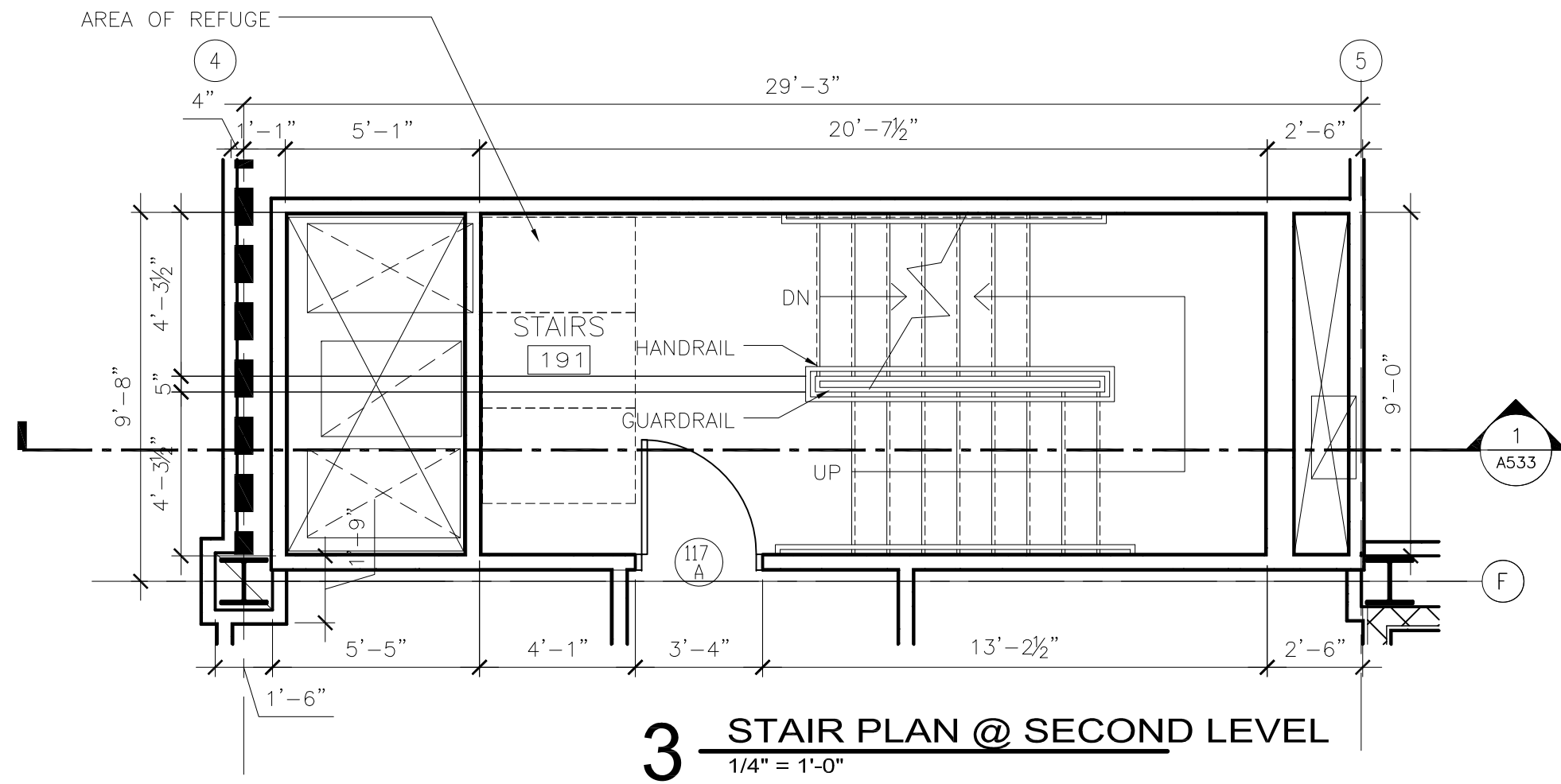
SHEET TITLE

**INTERIOR SYSTEMS  
VERTICAL  
CIRCULATION**

SHEET NUMBER

**A533**

**BUILDING  
PERMIT**





**CONSULTANTS**

Interior Architects:  
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**REVISIONS**

NO.	DESCRIPTION	DATE
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DATE ISSUED: 08-16-10  
REVIEWED BY: TC  
DRAWN BY: MK/MP  
DESIGNED BY: TC

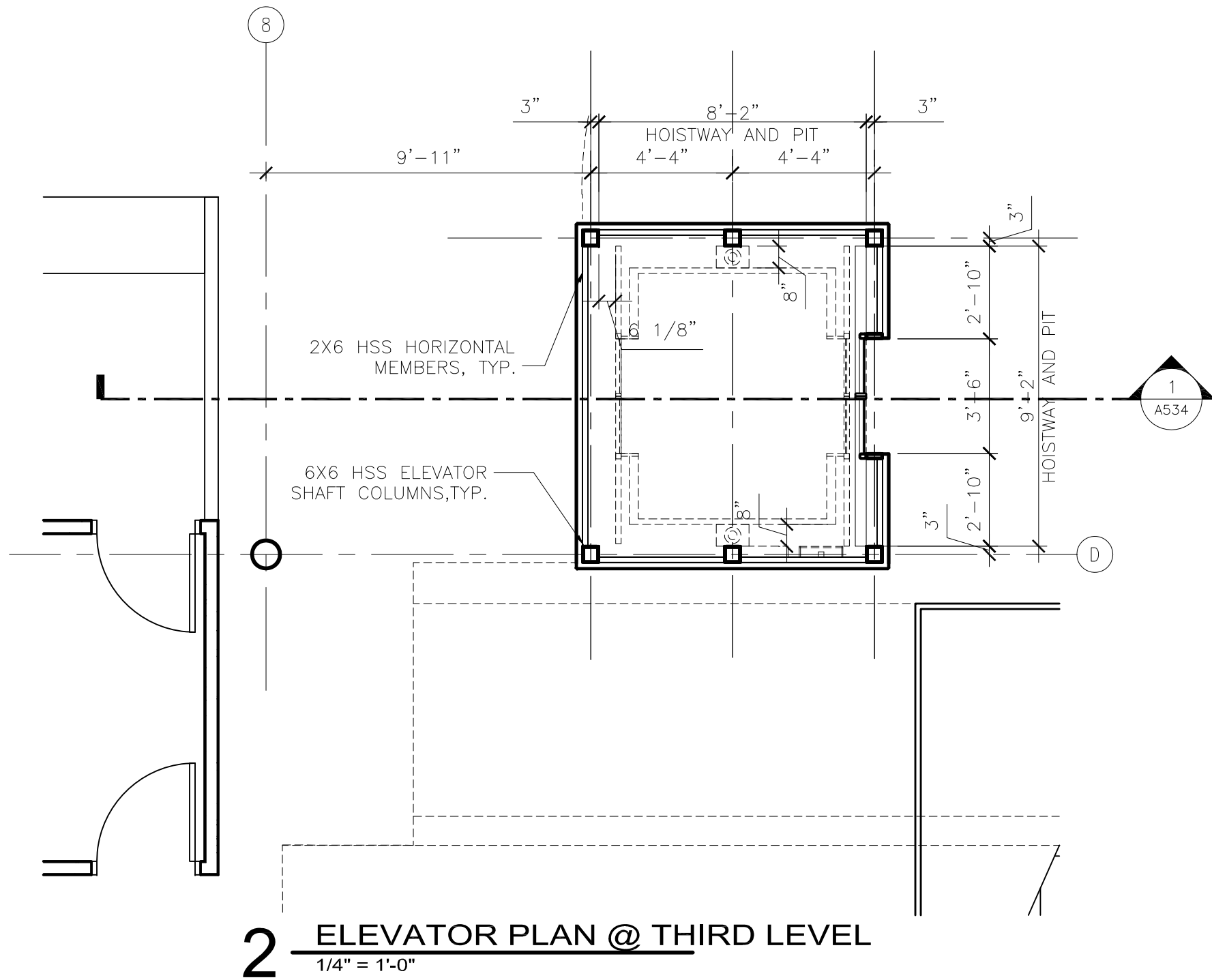
AEP PROJECT NUMBER  
**213-1882-091**  
XXX.DWG 08-16-10 12:00p  
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SHEET TITLE  
**INTERIOR SYSTEM  
SHEET  
MAIN ELEVATOR**

SHEET NUMBER

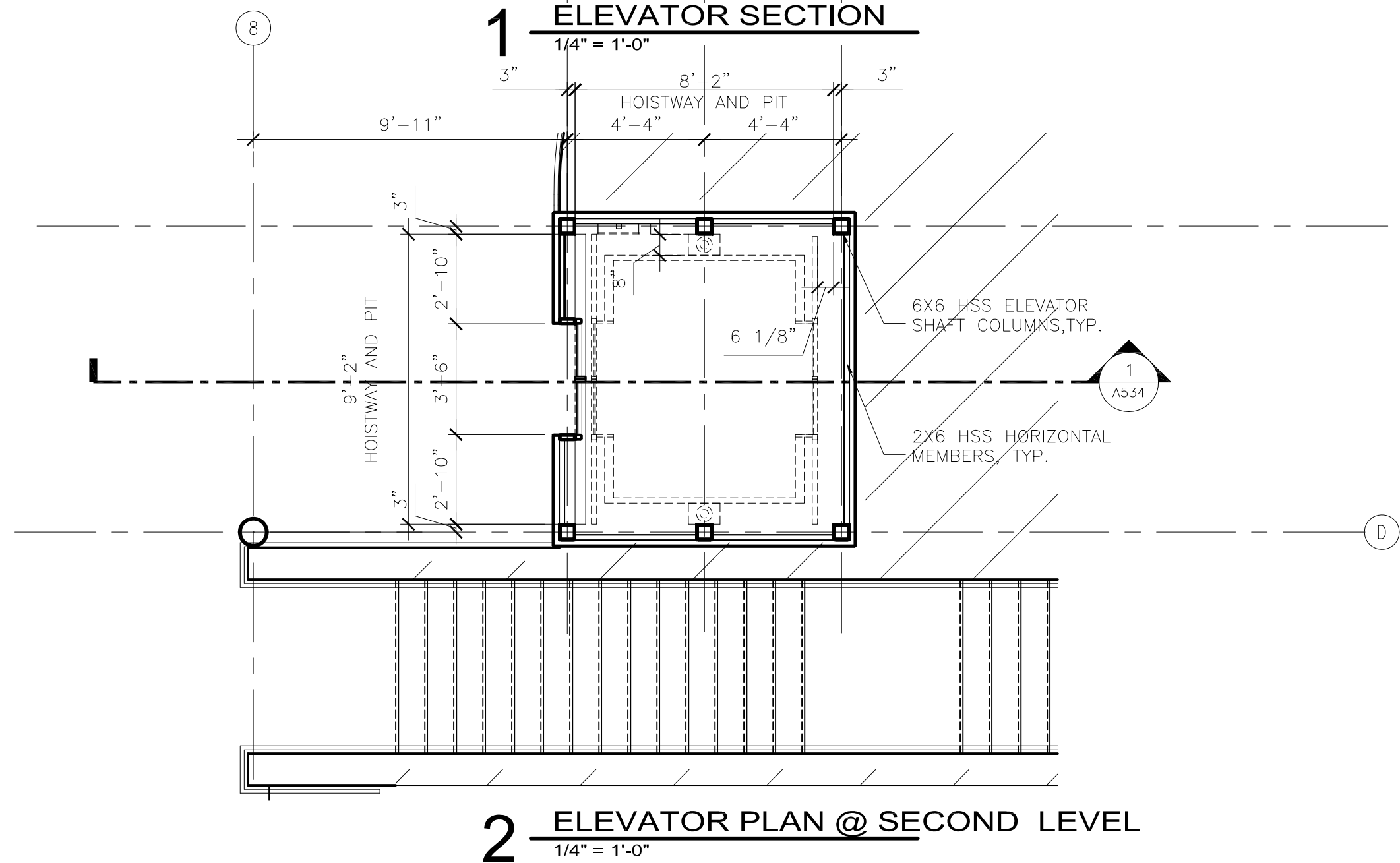
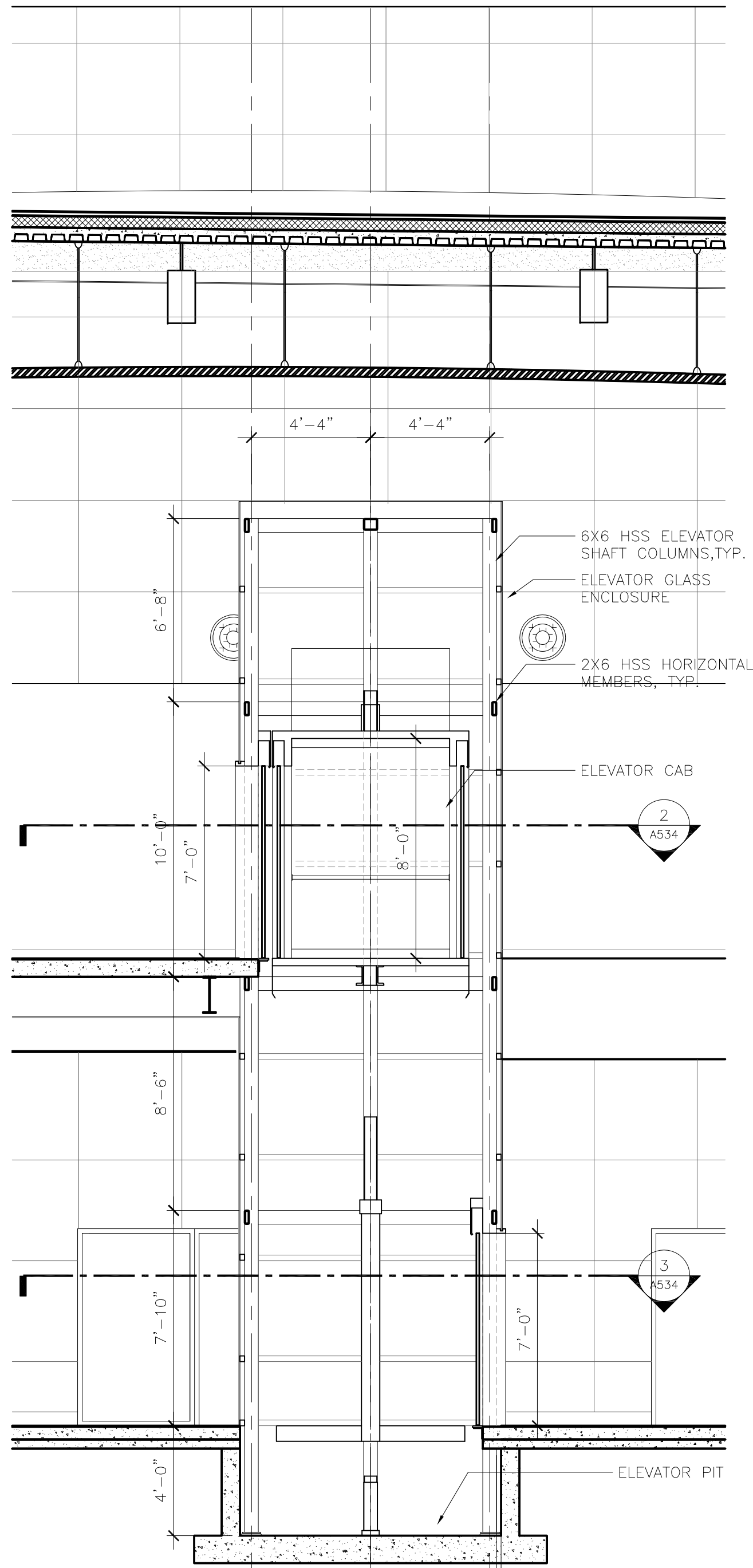
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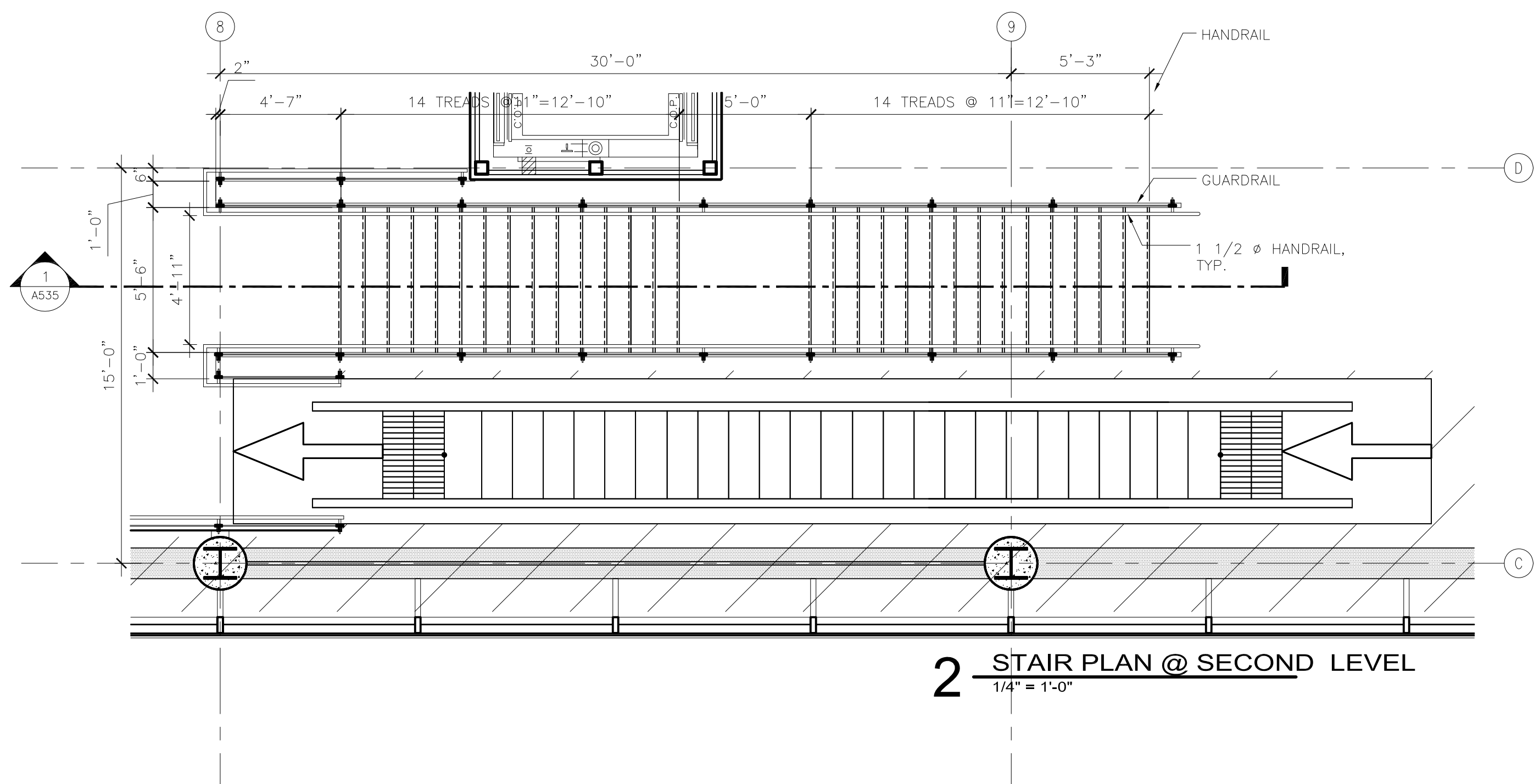
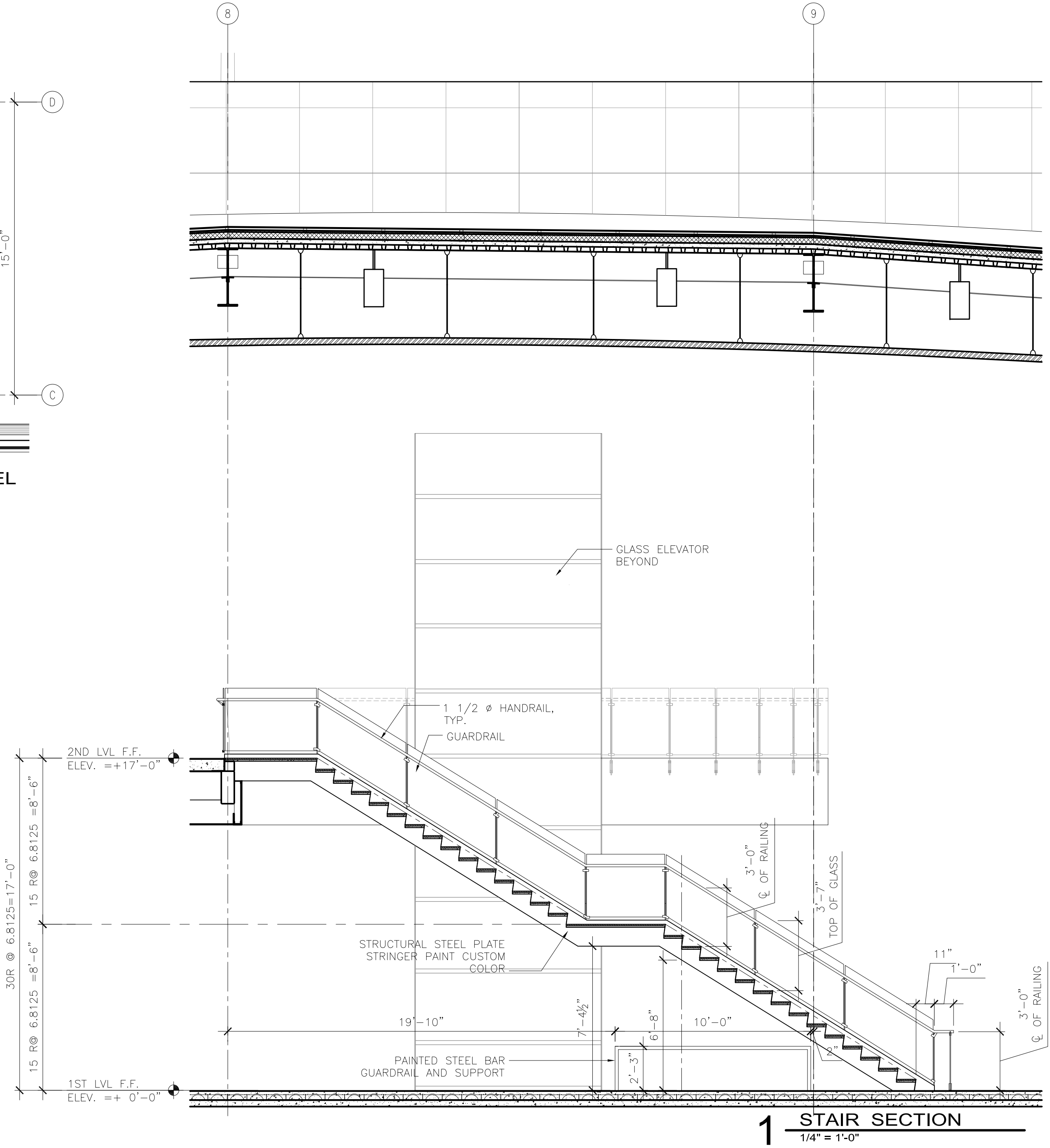
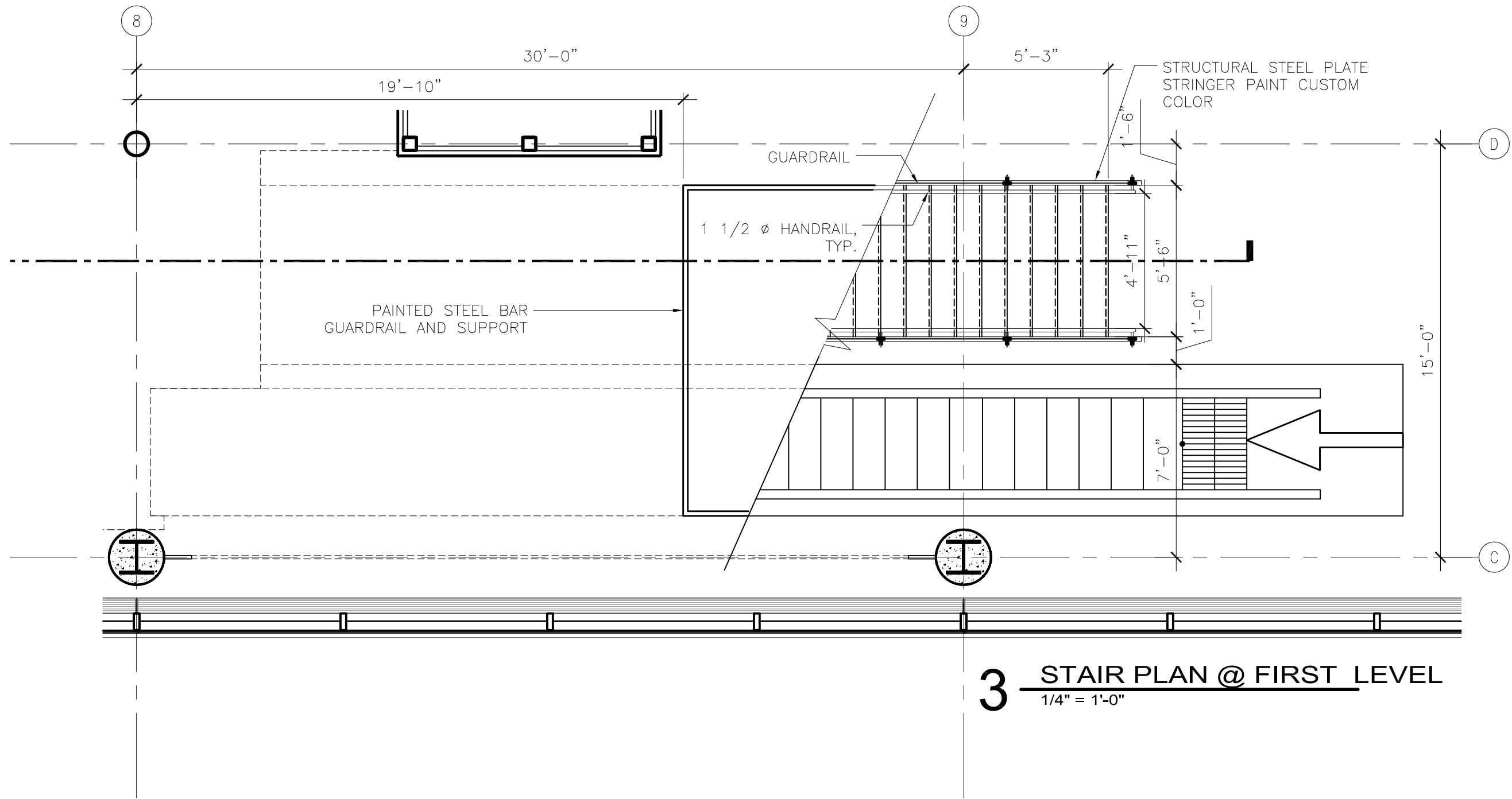
**BUILDING  
PERMIT**



2ND LVL F.F.  
ELEV. = +17'-0\"/>

1ST LVL F.F.  
ELEV. = + 0'-0\"/>





NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
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AEP PROJECT NUMBER

213-1882-091

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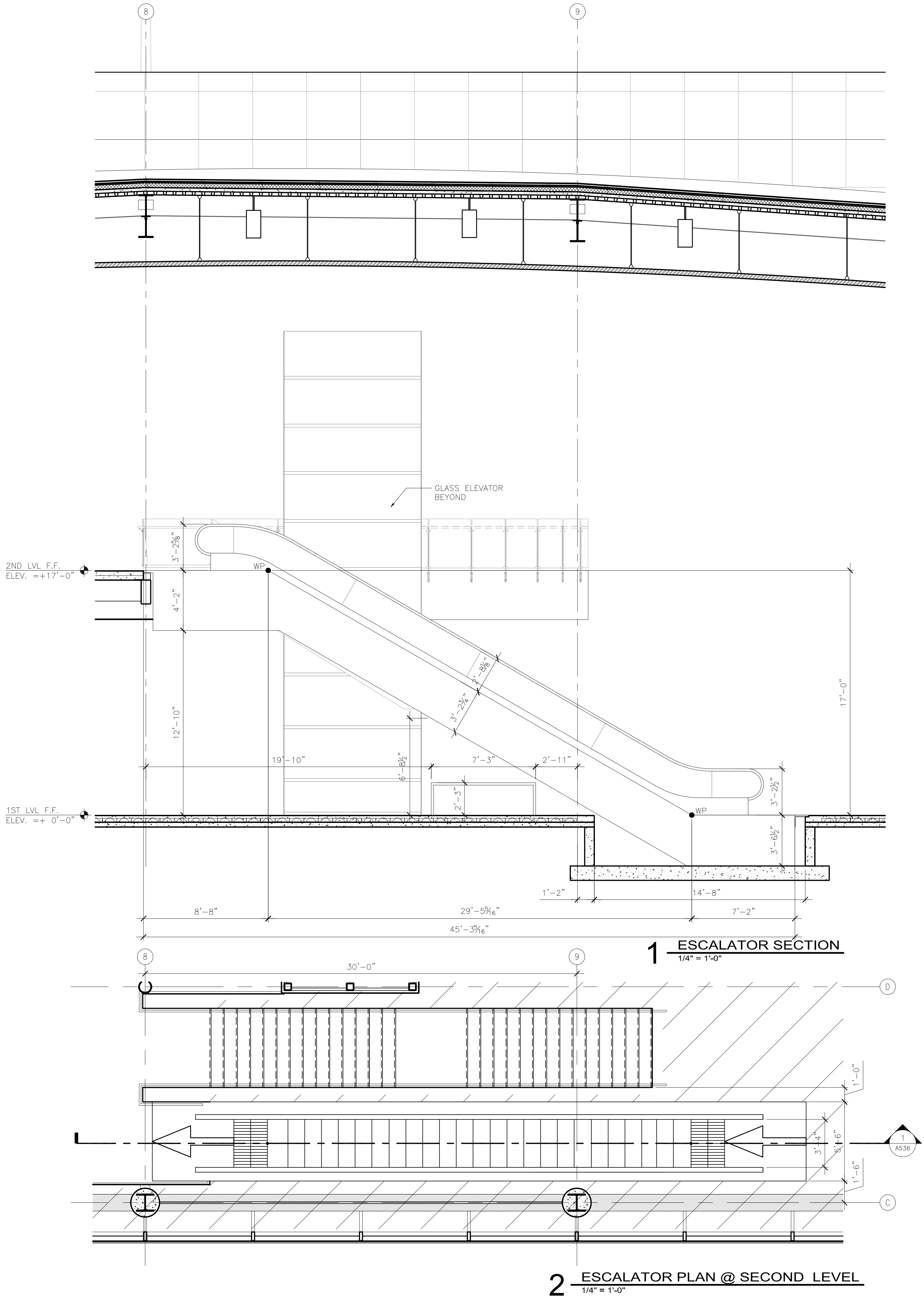
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INTERIOR SYSTEM  
SHEET  
MAIN ESCALATOR

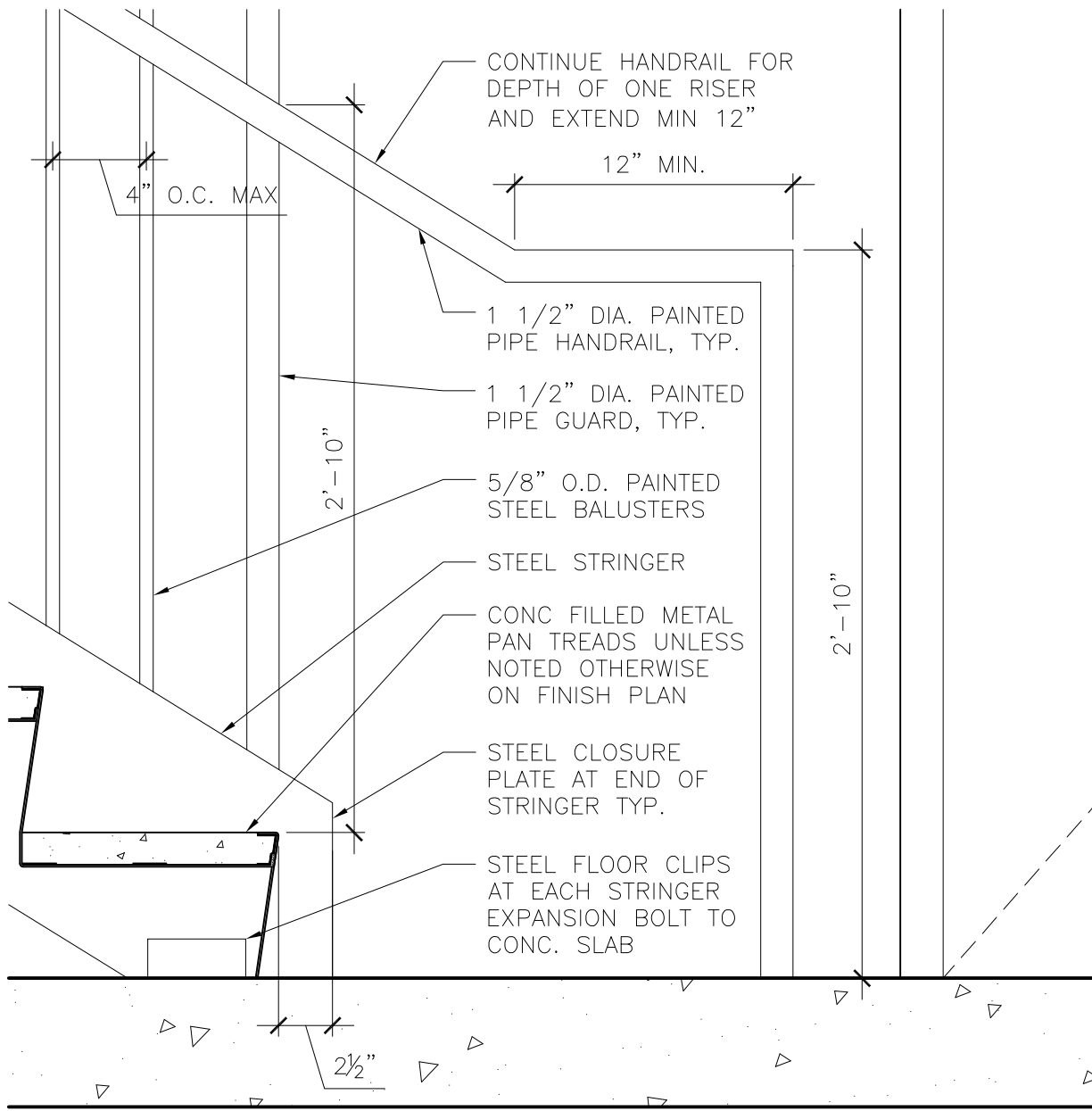
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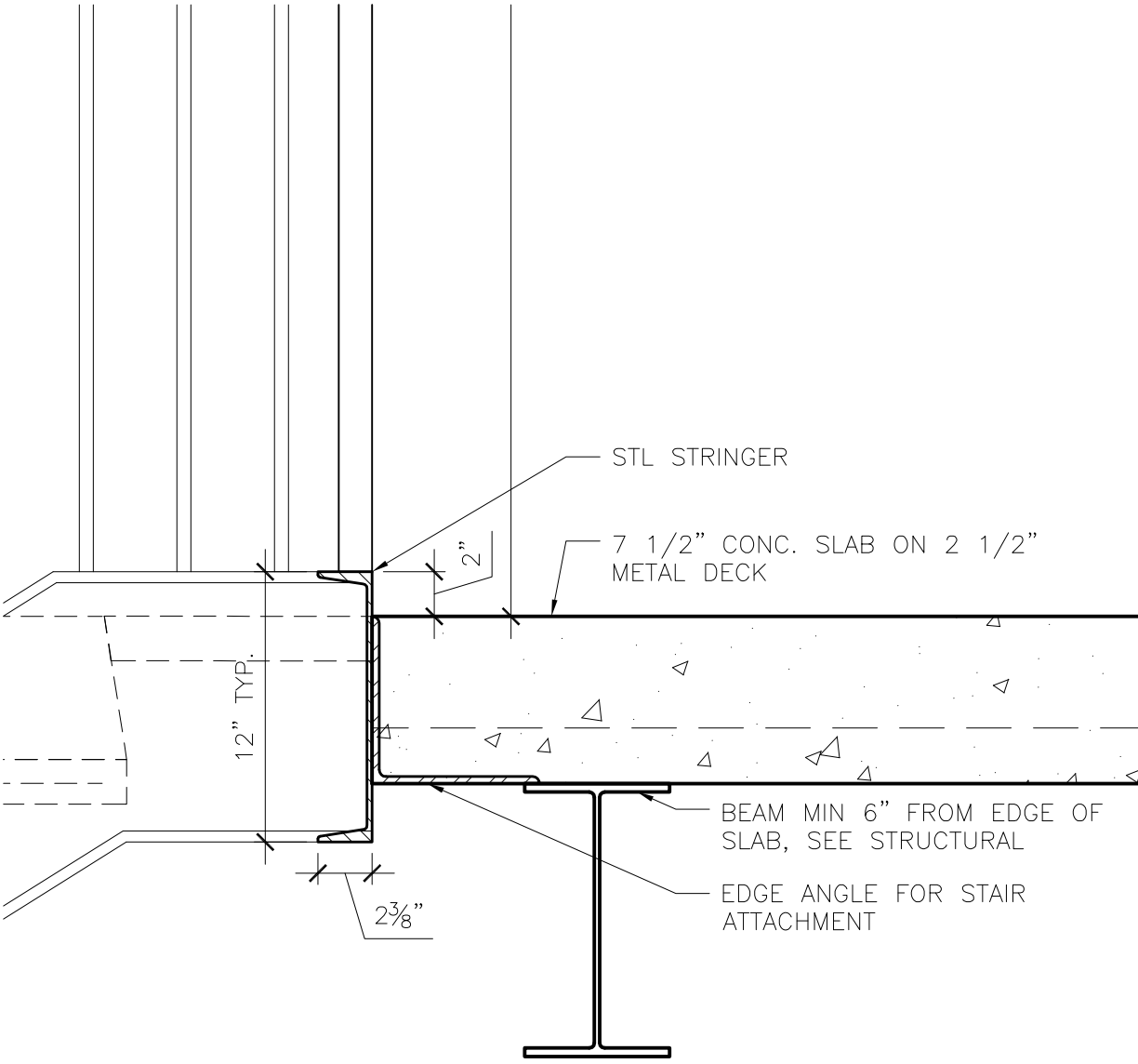
BUILDING  
PERMIT



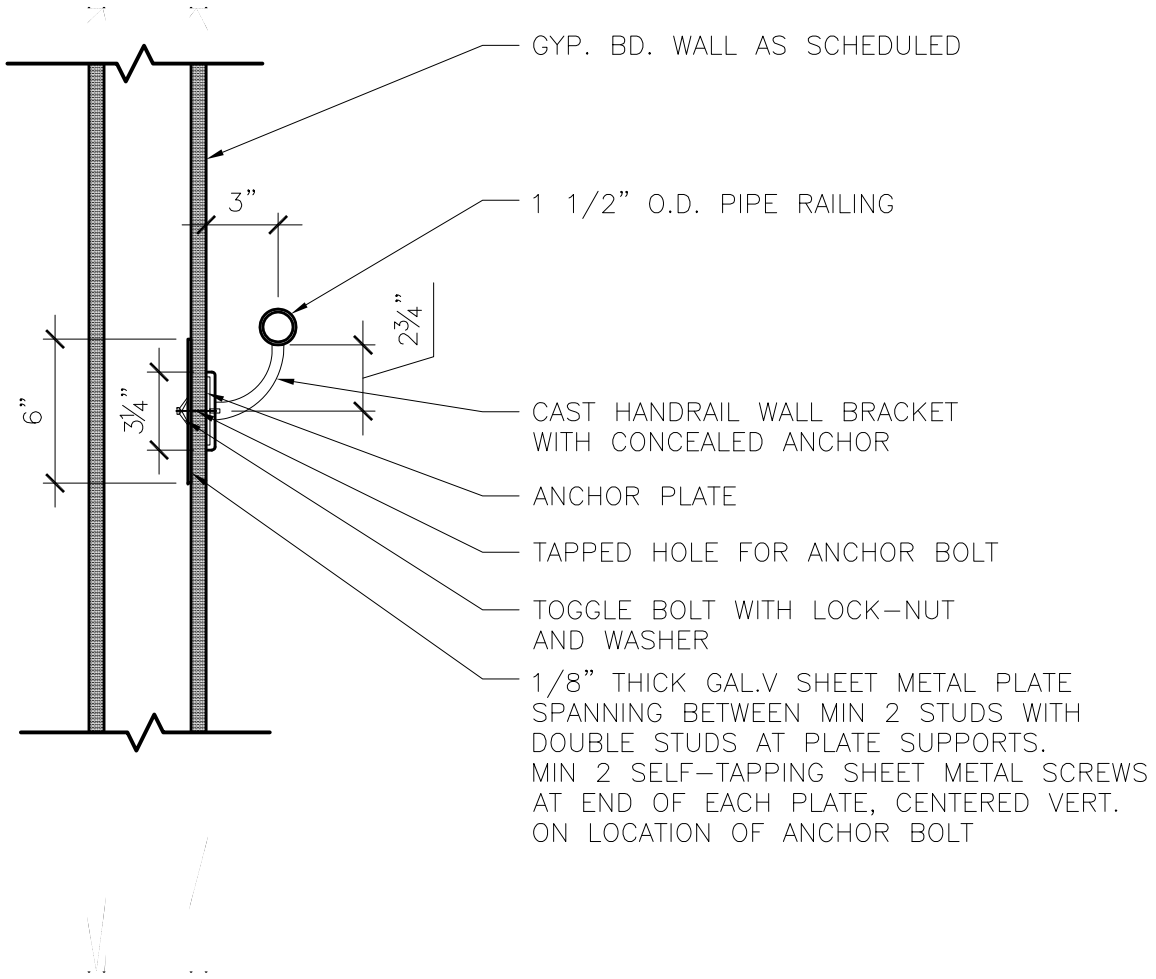




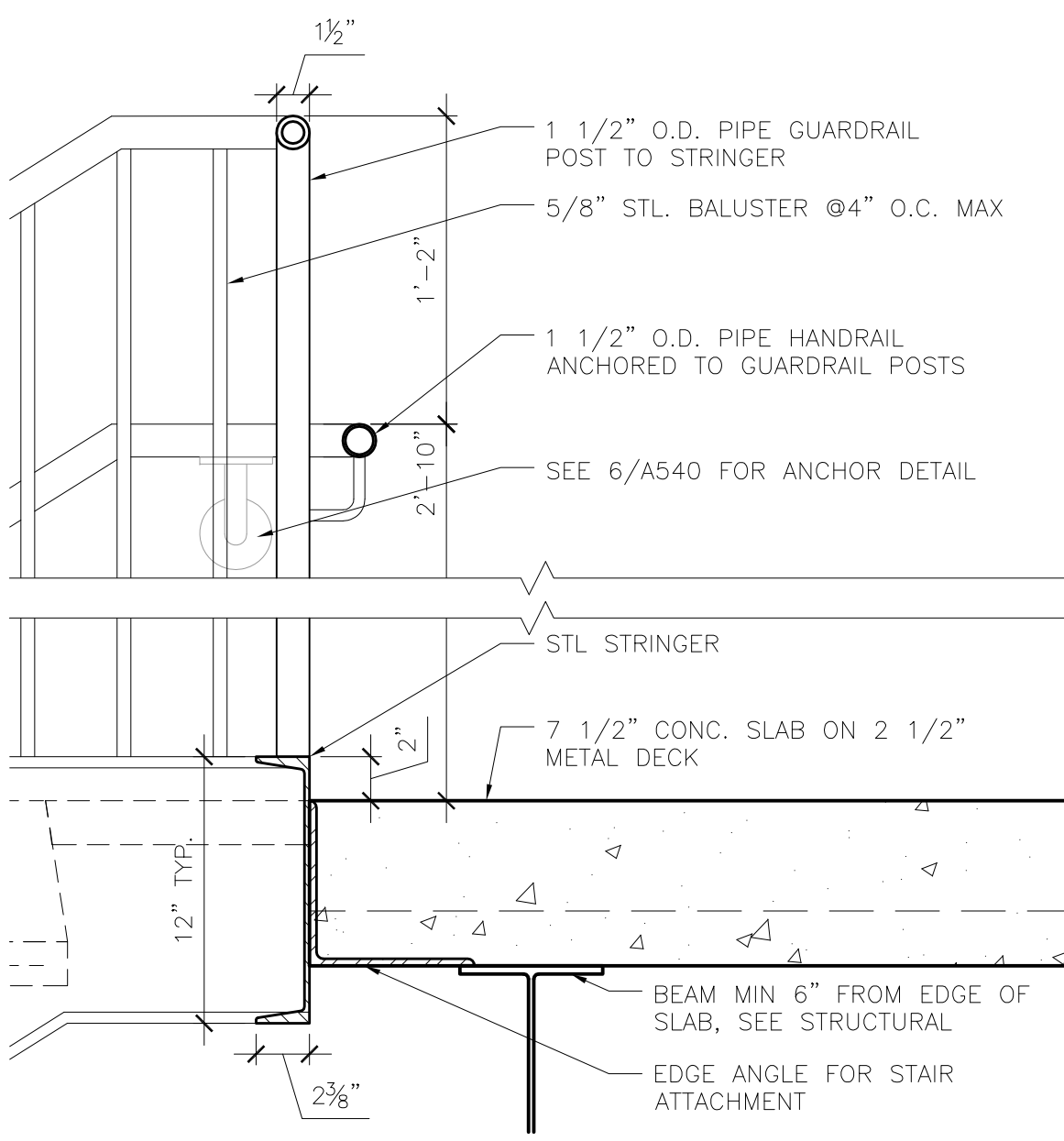
4 STAIR STRINGER @ FIRST LEVEL  
1 1/2" = 1'-0"



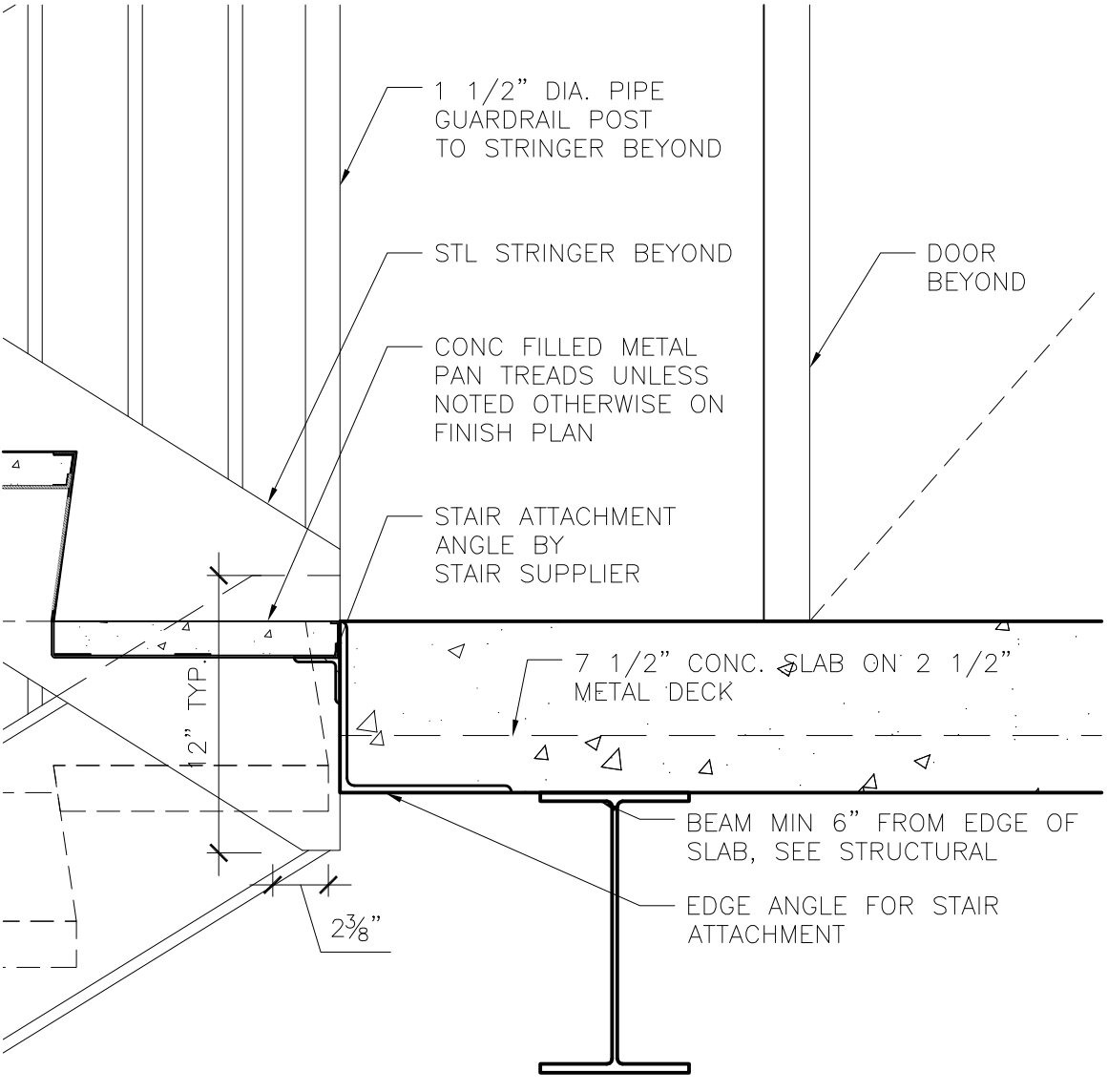
5 RAIL TERMINATION DETAIL  
1 1/2" = 1'-0"



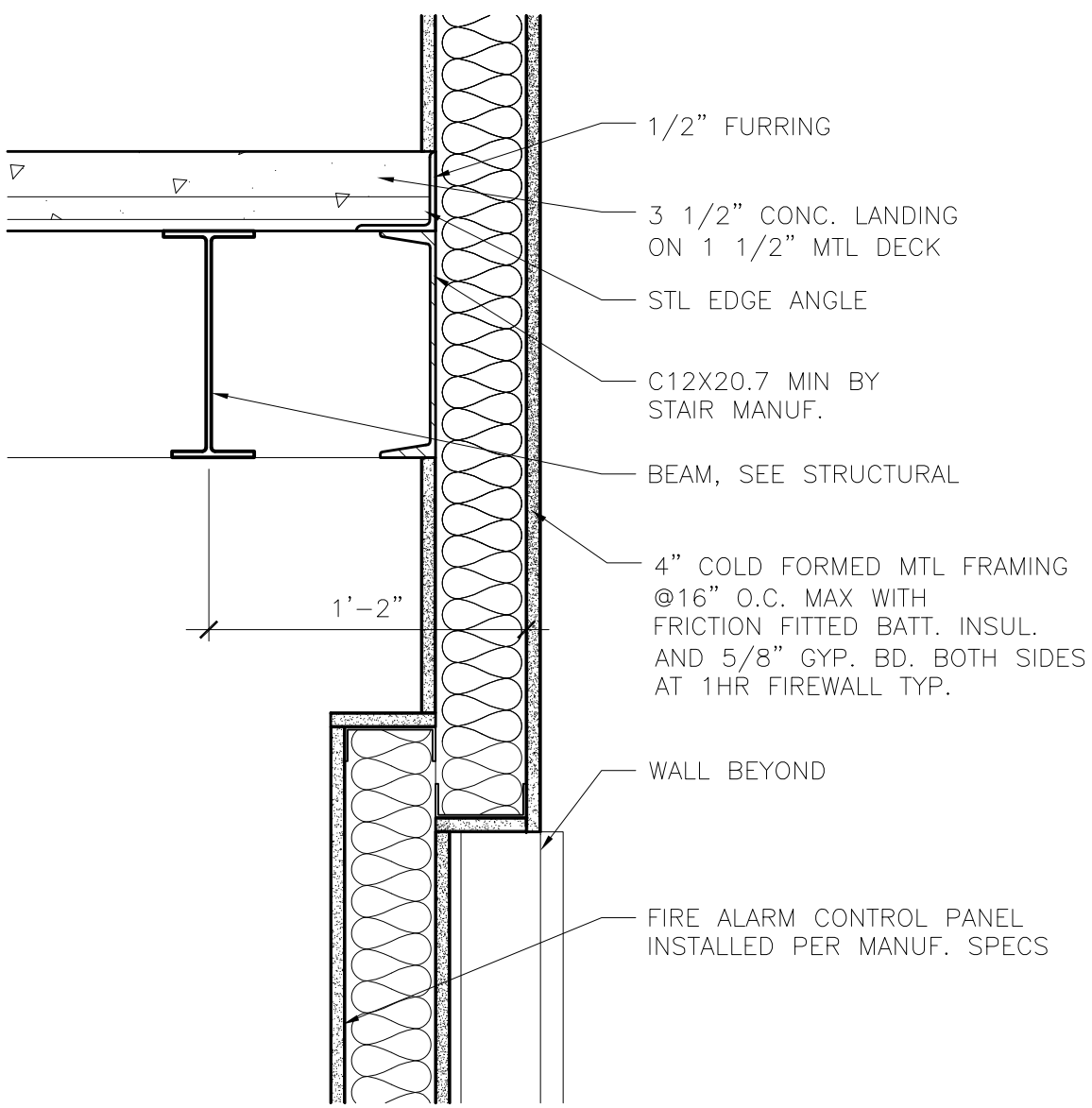
6 HANDRAIL DETAIL AT GYP. BD.  
1 1/2" = 1'-0"



1 DETAIL AT TOP LANDING  
1 1/2" = 1'-0"



2 DETAIL AT INTERMEDIATE LANDING  
1 1/2" = 1'-0"



3 DETAIL AT FIRE ALARM ALCOVE  
1 1/2" = 1'-0"

**CONSULTANTS**

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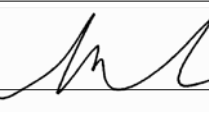
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Signature: 

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

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1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: XX

DRAWN BY: XX

DESIGNED BY: XX

AEP PROJECT NUMBER

213-1882-091

XXX.DWG 08-16-10 12:00p

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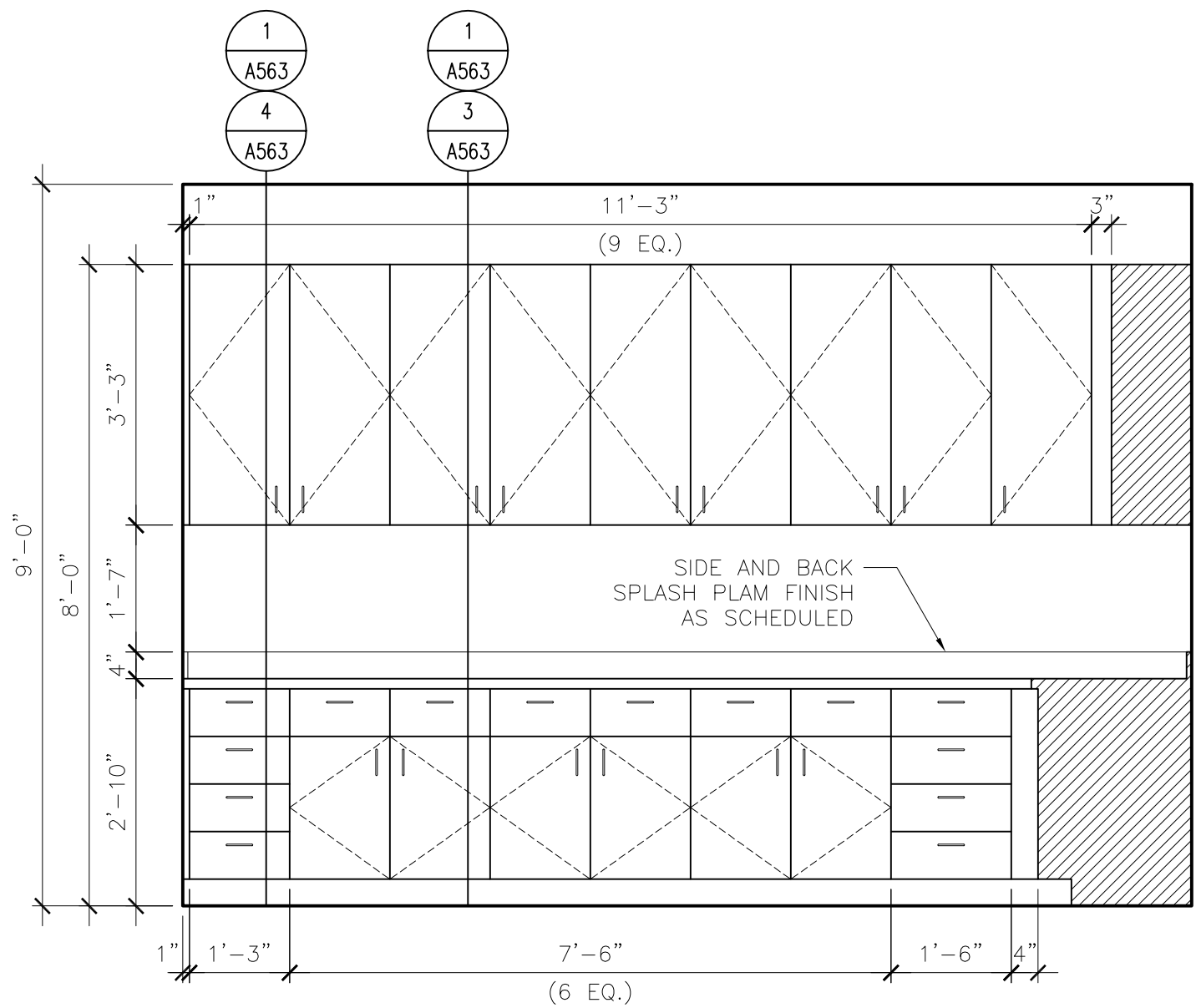
SHEET TITLE

**VERTICAL  
CIRCULATION  
DETAILS**

SHEET NUMBER

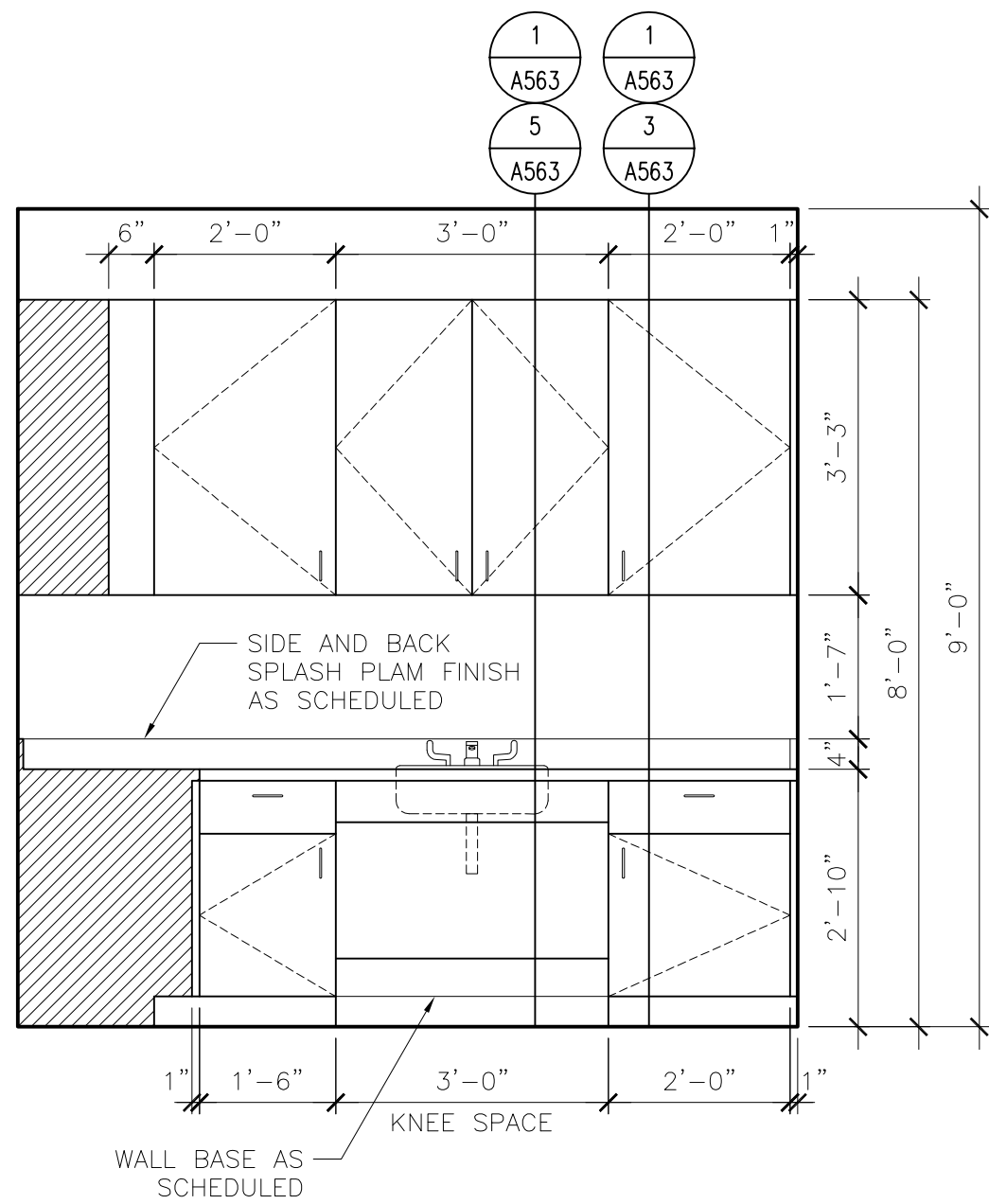
**A540**

**BUILDING  
PERMIT**



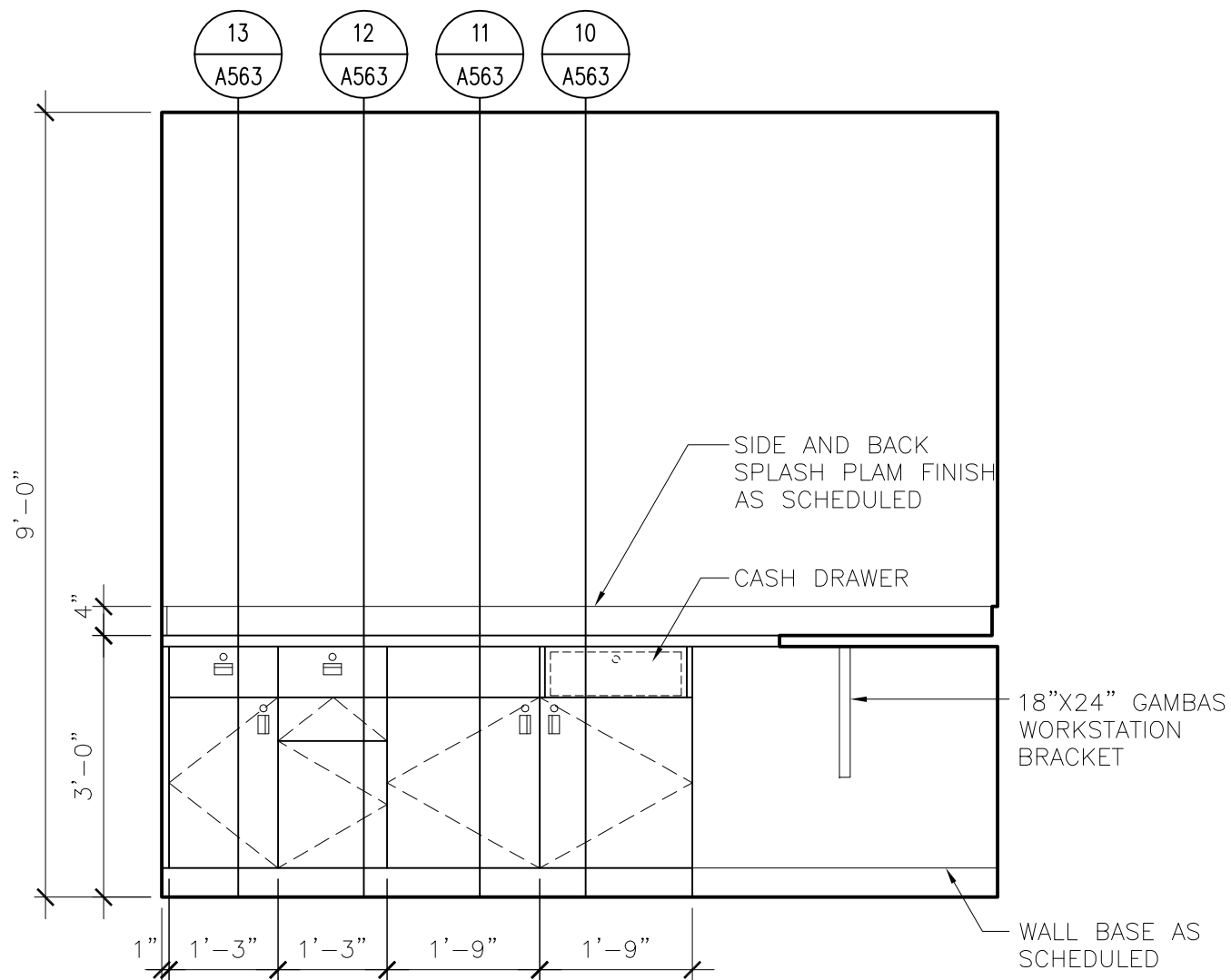
4 AG. LAB ELEVATION (RM 160)

1/2" = 1'-0"



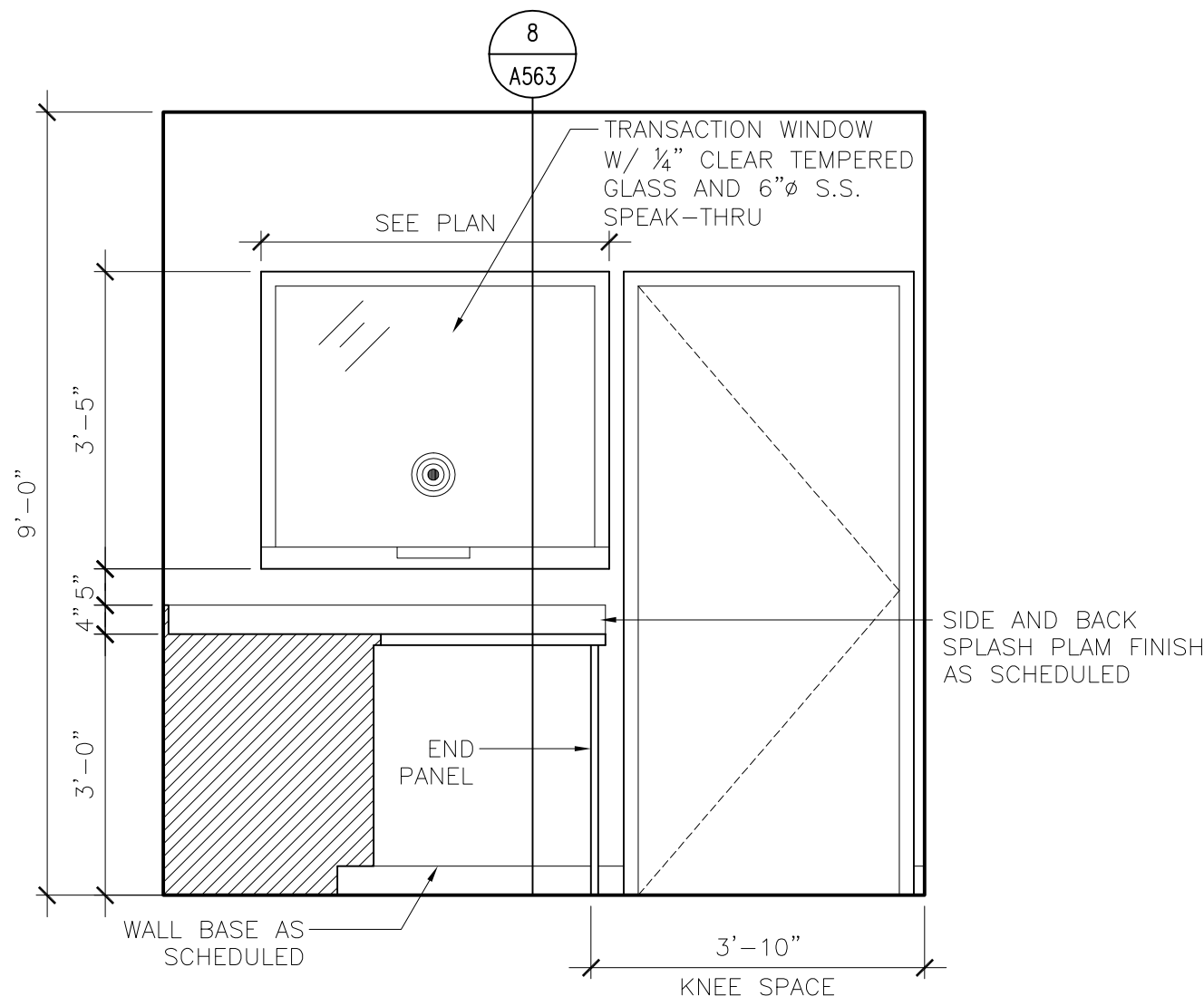
3 AG. LAB ELEVATION (RM 160)

1/2" = 1'-0"



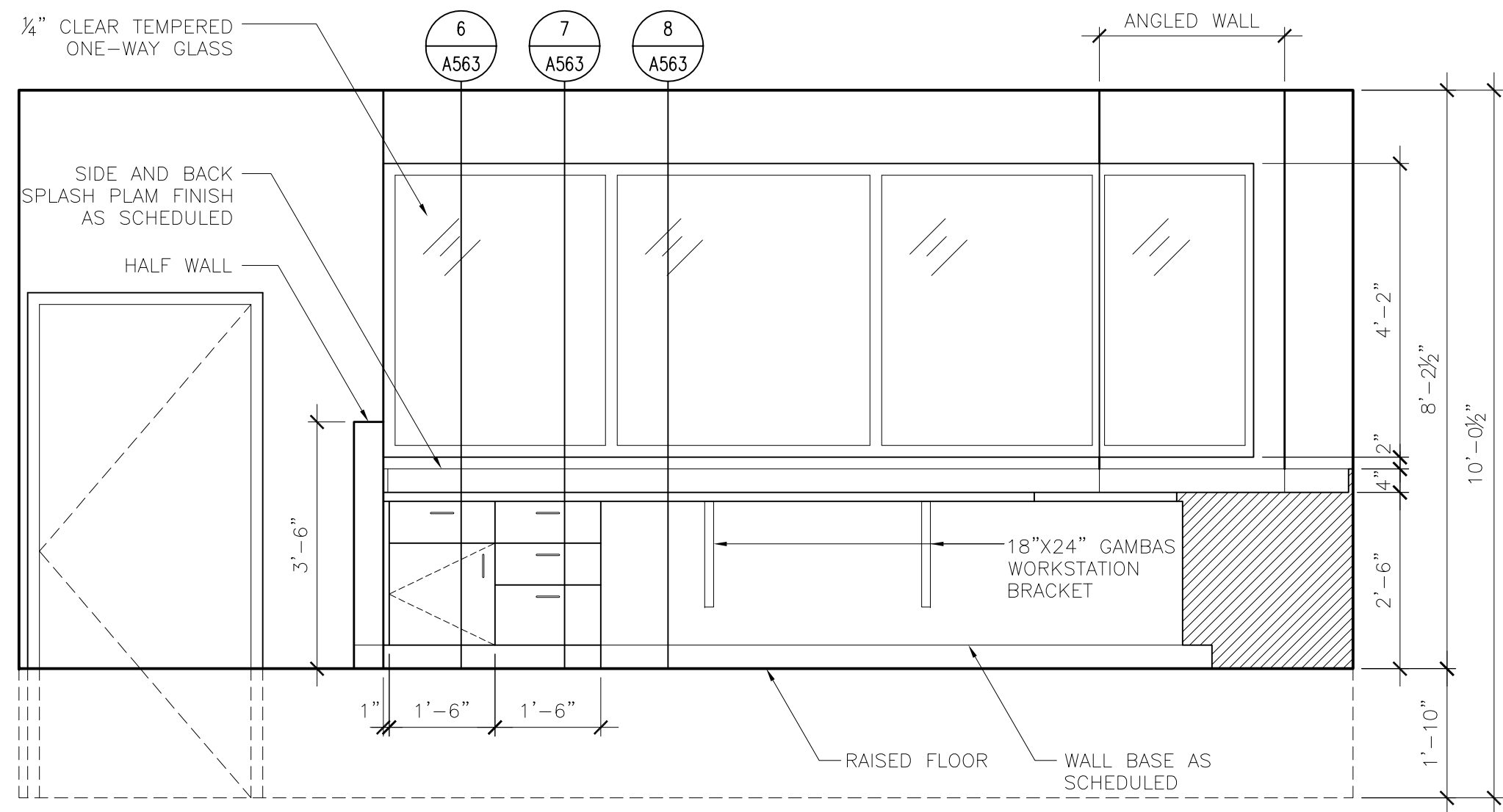
2 CASHIER ELEVATION (RM 181)

1/2" = 1'-0"



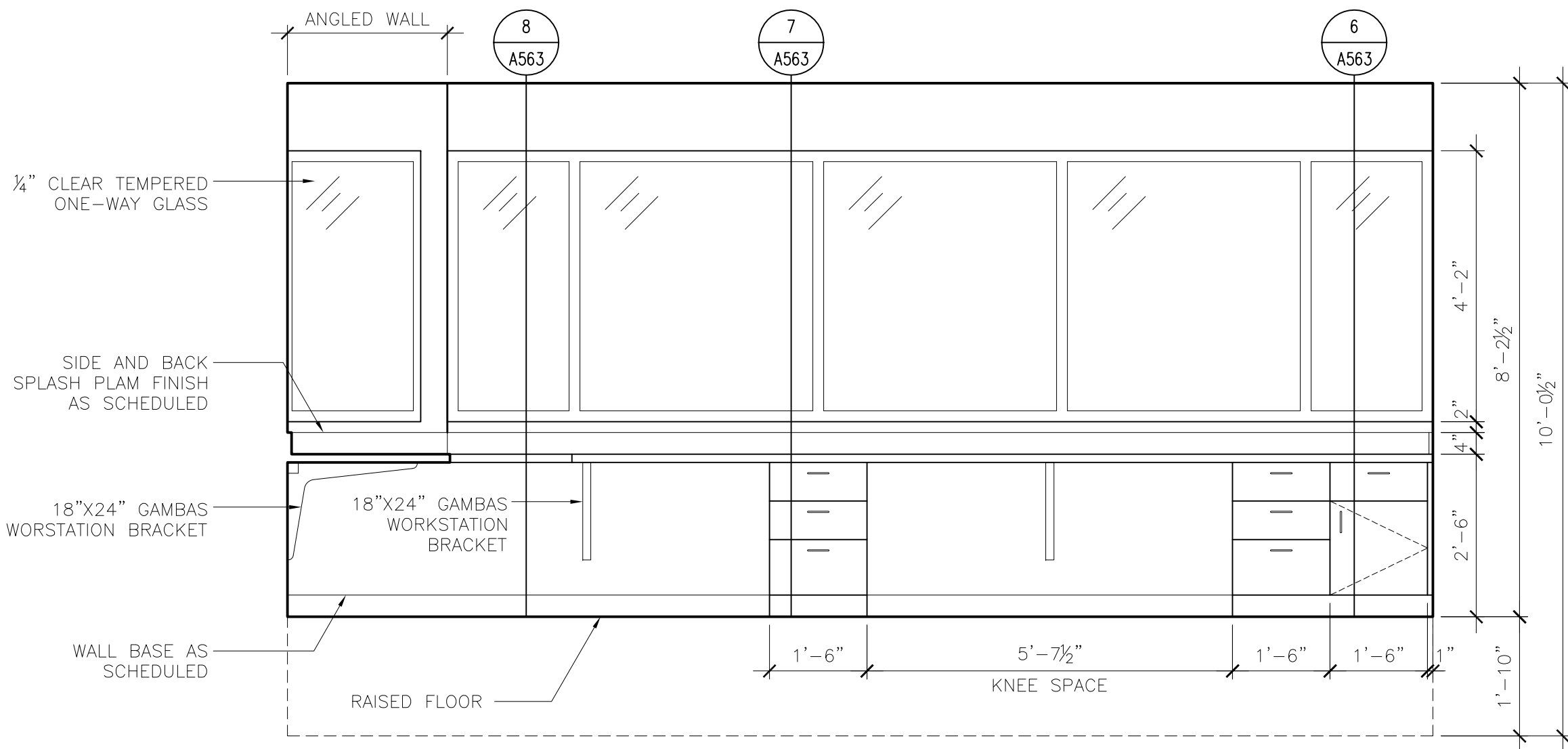
1 CASHIER ELEVATION (RM 181)

1/2" = 1'-0"



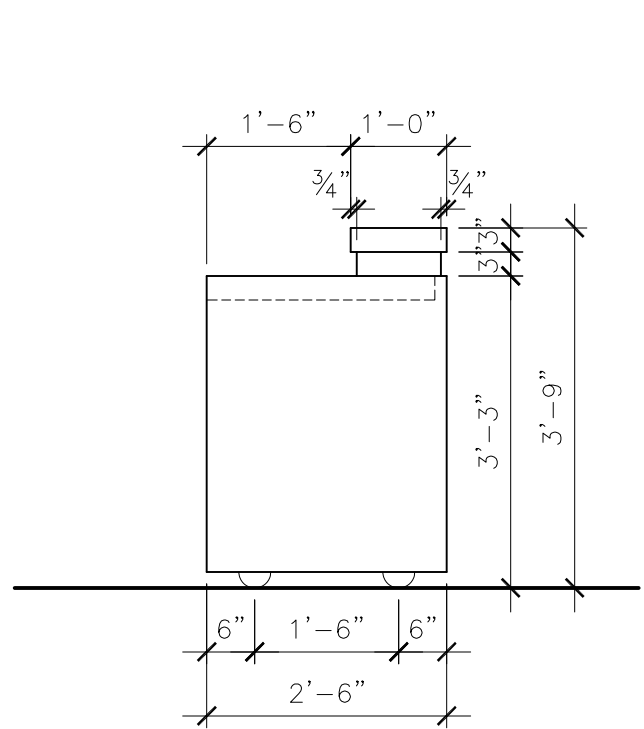
6 ROVER RM ELEVATION (RM 163)

1/2" = 1'-0"



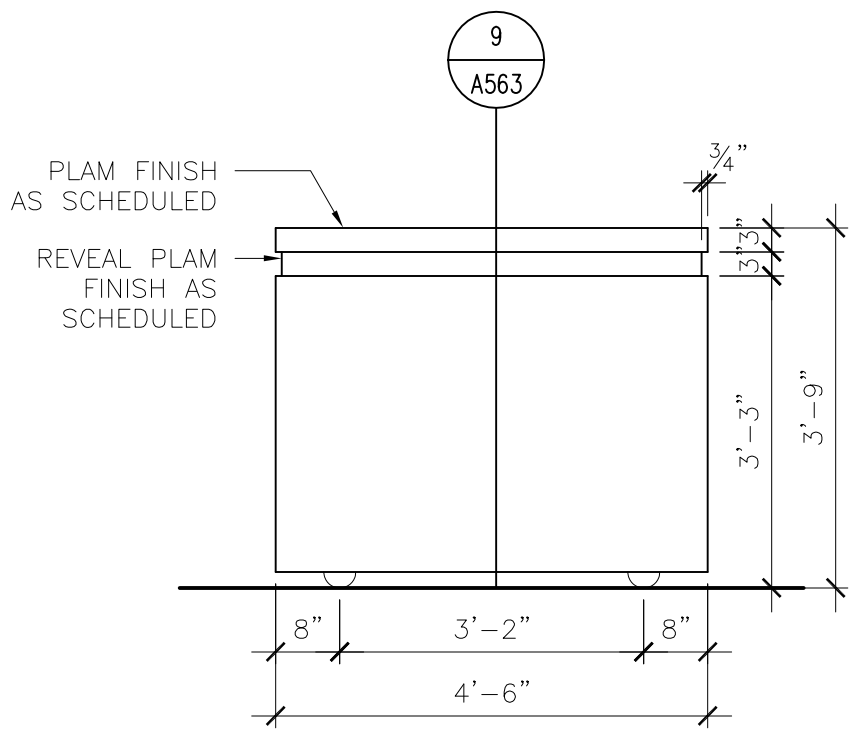
5 ROVER RM ELEVATION (RM 163)

1/2" = 1'-0"



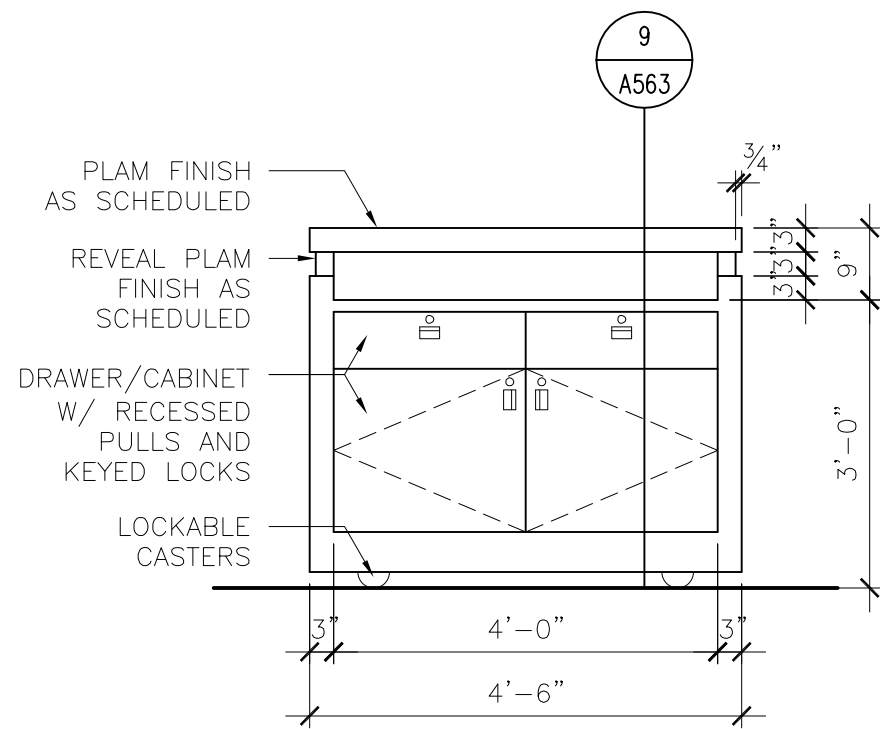
10 MOBILE PODIUM ELEV (RM 159)

1/2" = 1'-0"



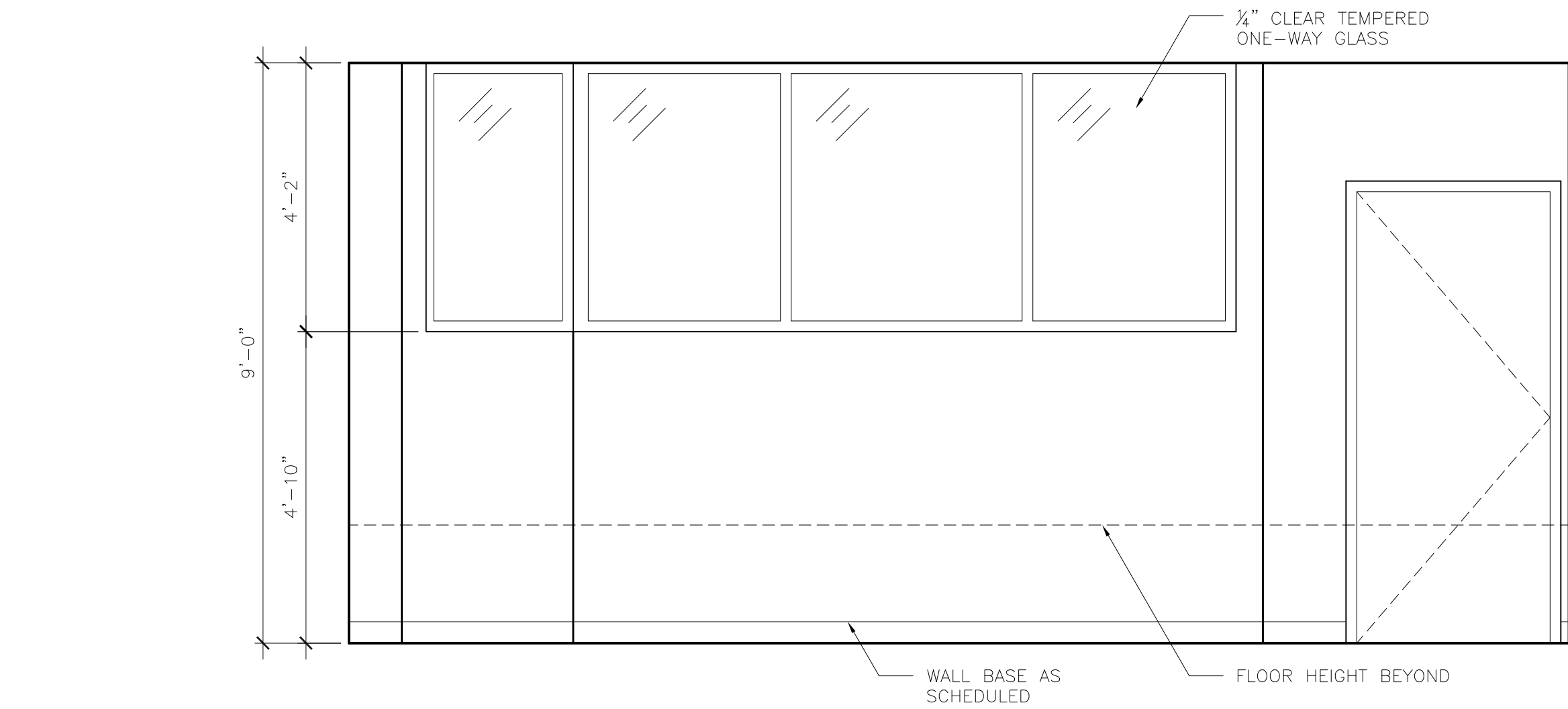
9 MOBILE PODIUM ELEV (RM 159)

1/2" = 1'-0"



8 MOBILE PODIUM ELEV (RM 159)

1/2" = 1'-0"



7 ROVER ENTRY ELEVATION (RM 159)

1/2" = 1'-0"

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TEL: (218) 591-5079

ARCHITECTURAL CERTIFICATION  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: VO  
DESIGNED BY: SBS/TC

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

**MILLWORK  
ELEVATIONS**

**SHEET NUMBER**

**A560**

**BUILDING  
PERMIT**

**CONSULTANTS**

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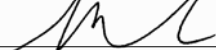
M/E/P/F Engineers:  
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NO.	DESCRIPTION	DATE
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3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: VO  
DESIGNED BY: SBS/TC

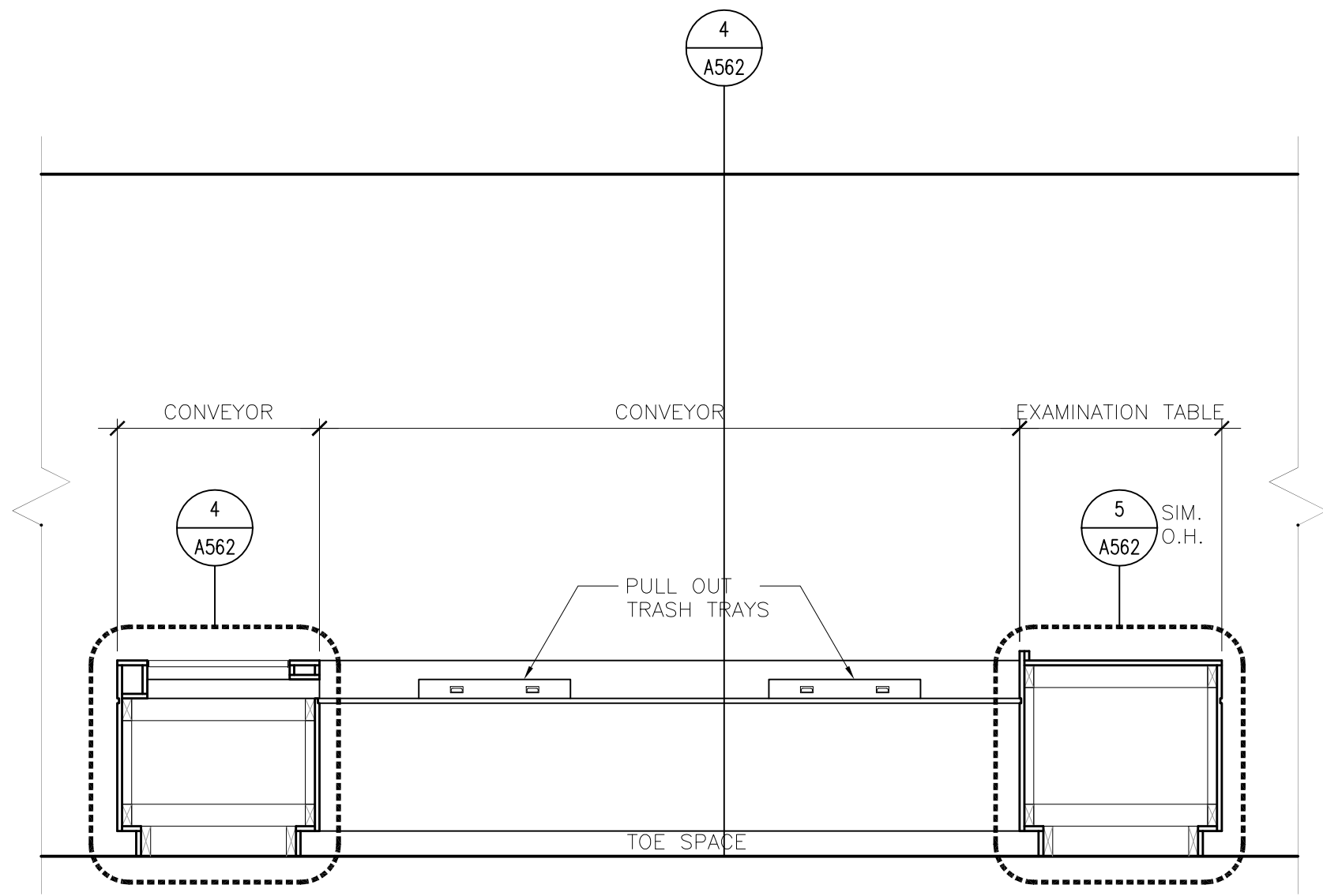
A&P PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**MILLWORK  
ELEVATIONS**

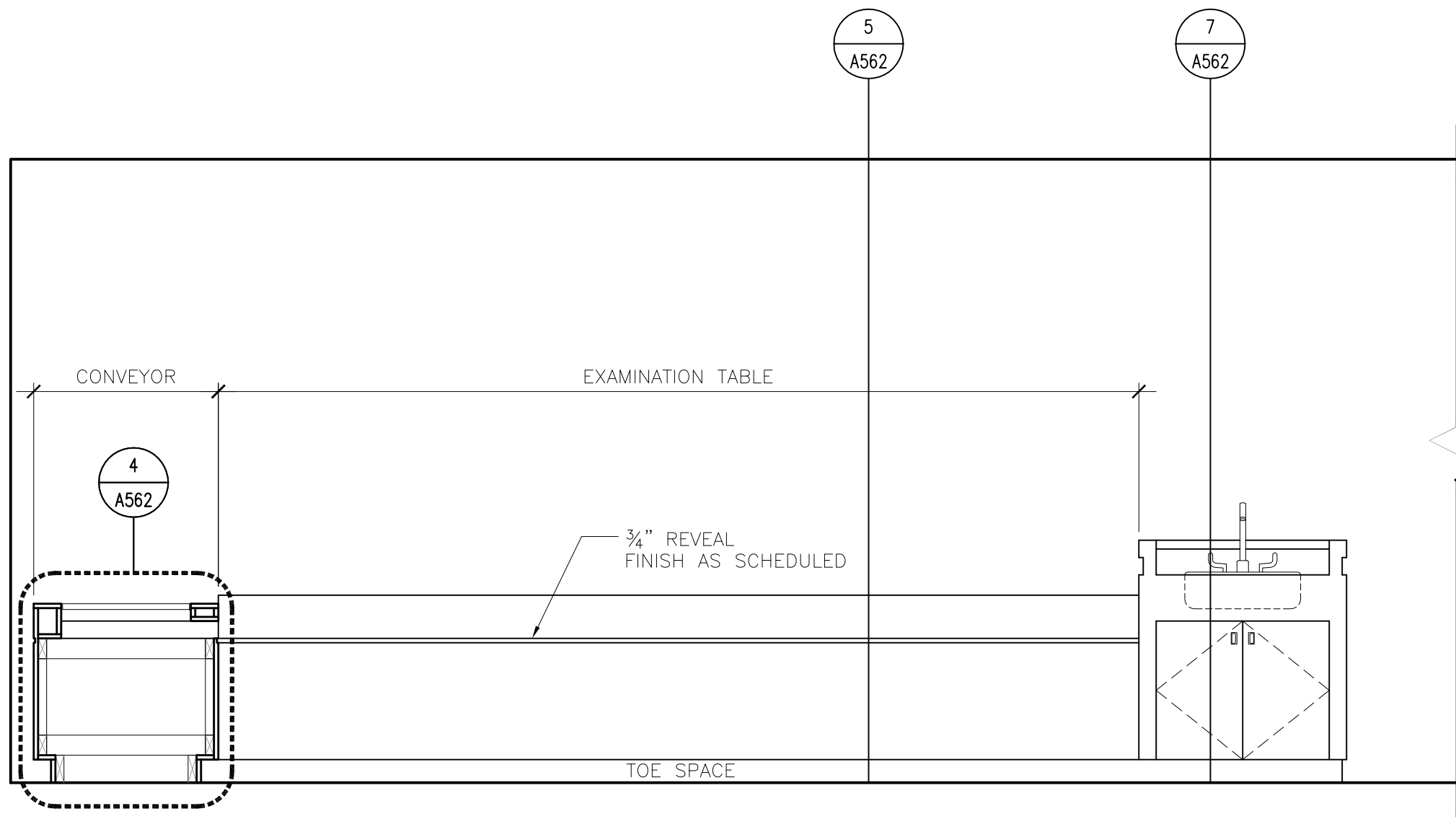
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**A561**

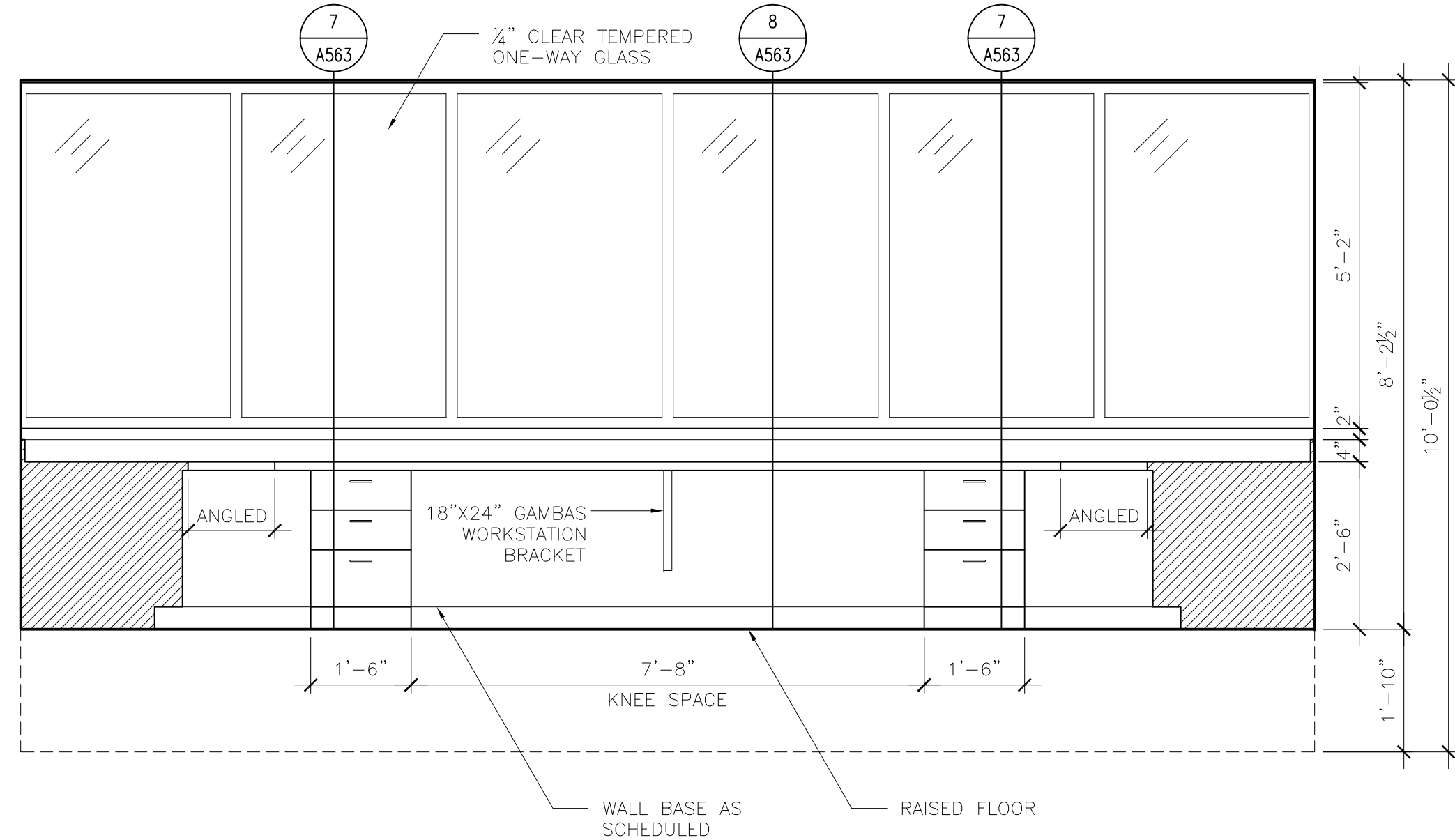
**BUILDING  
PERMIT**



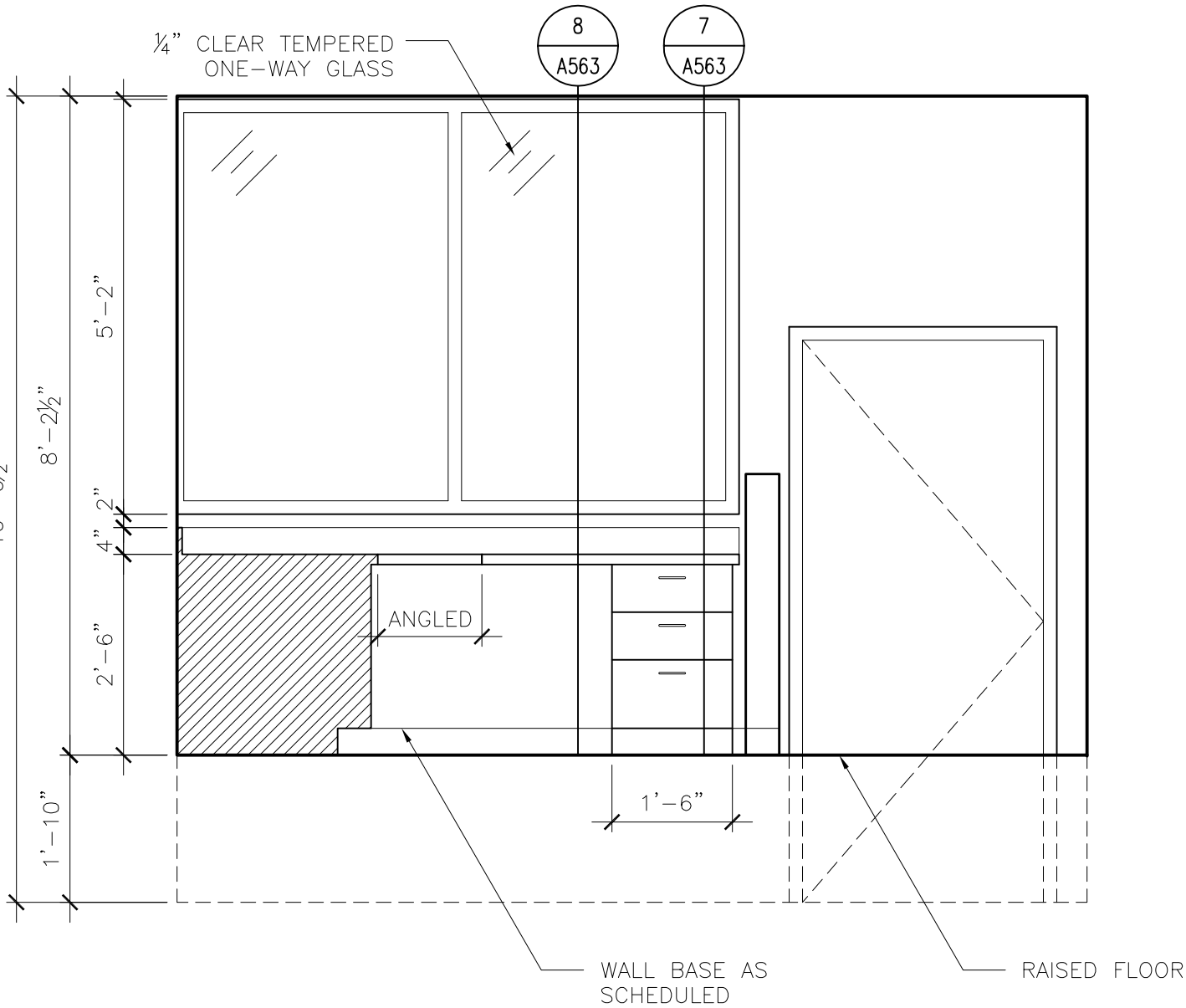
**2 SECONDARY X-RAY ELEVATION (RM 159)**  
1/2" = 1'-0"



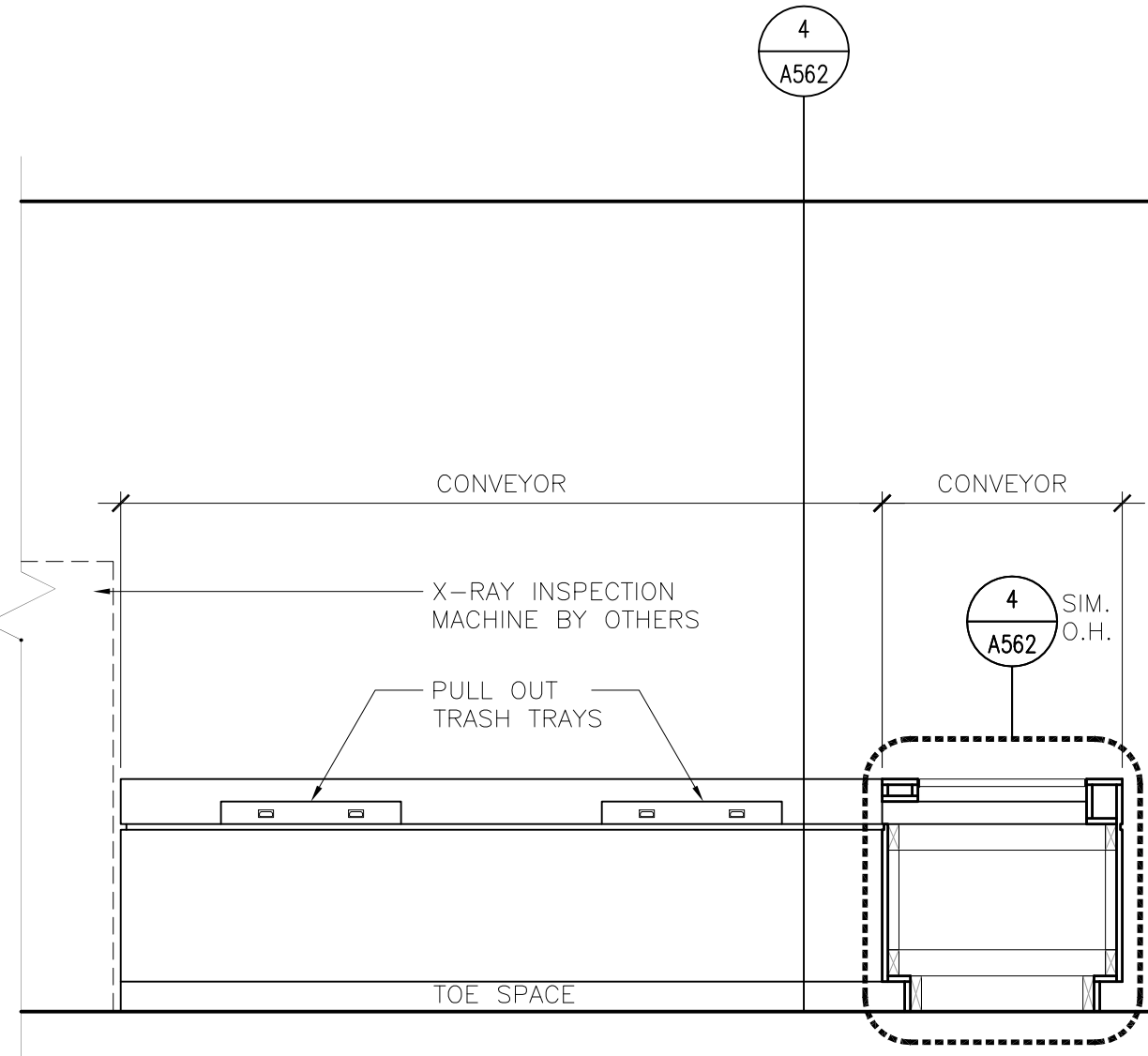
**1 SECONDARY X-RAY ELEVATION (RM 159)**  
1/2" = 1'-0"



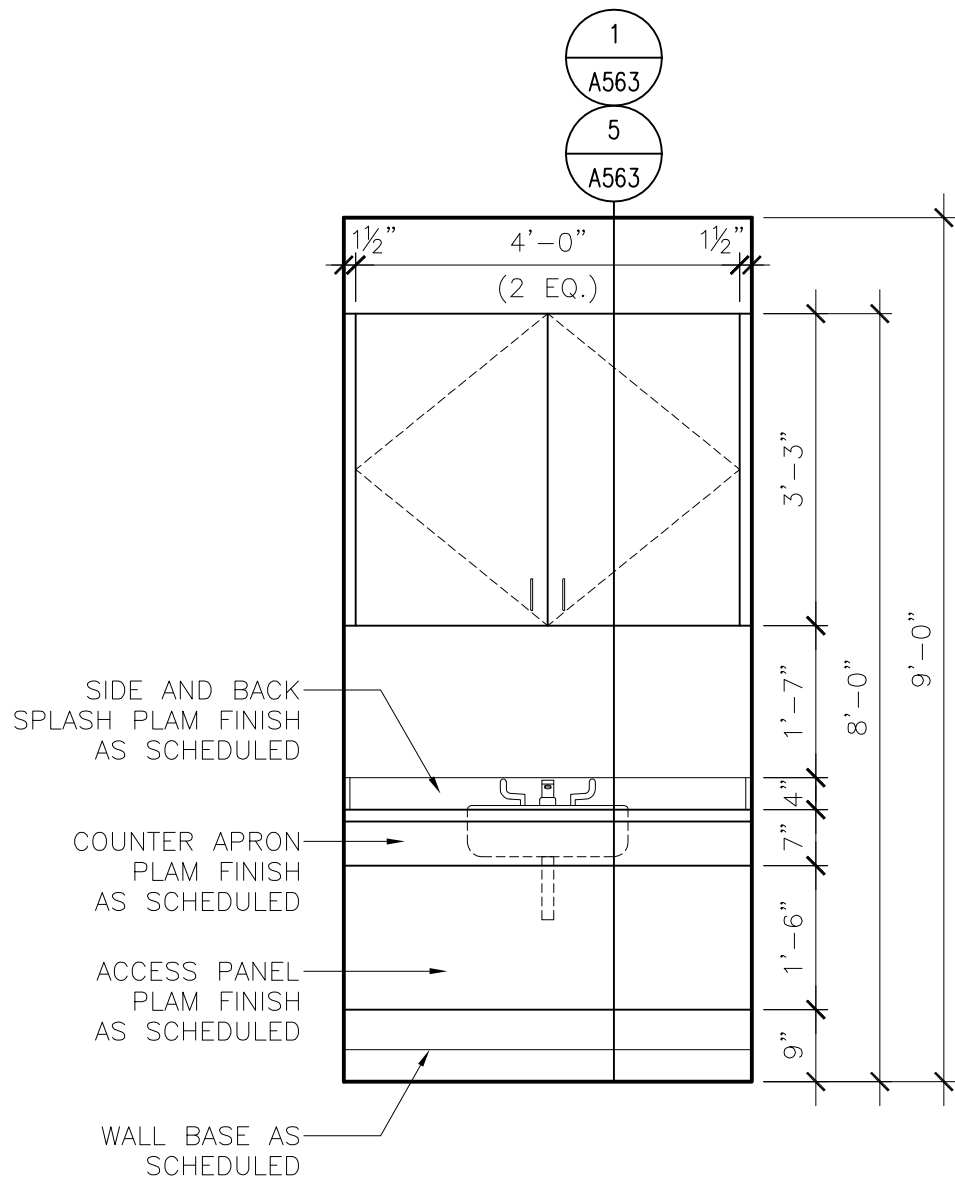
**5 ROVER RM ELEVATION (RM 245)**  
1/2" = 1'-0"



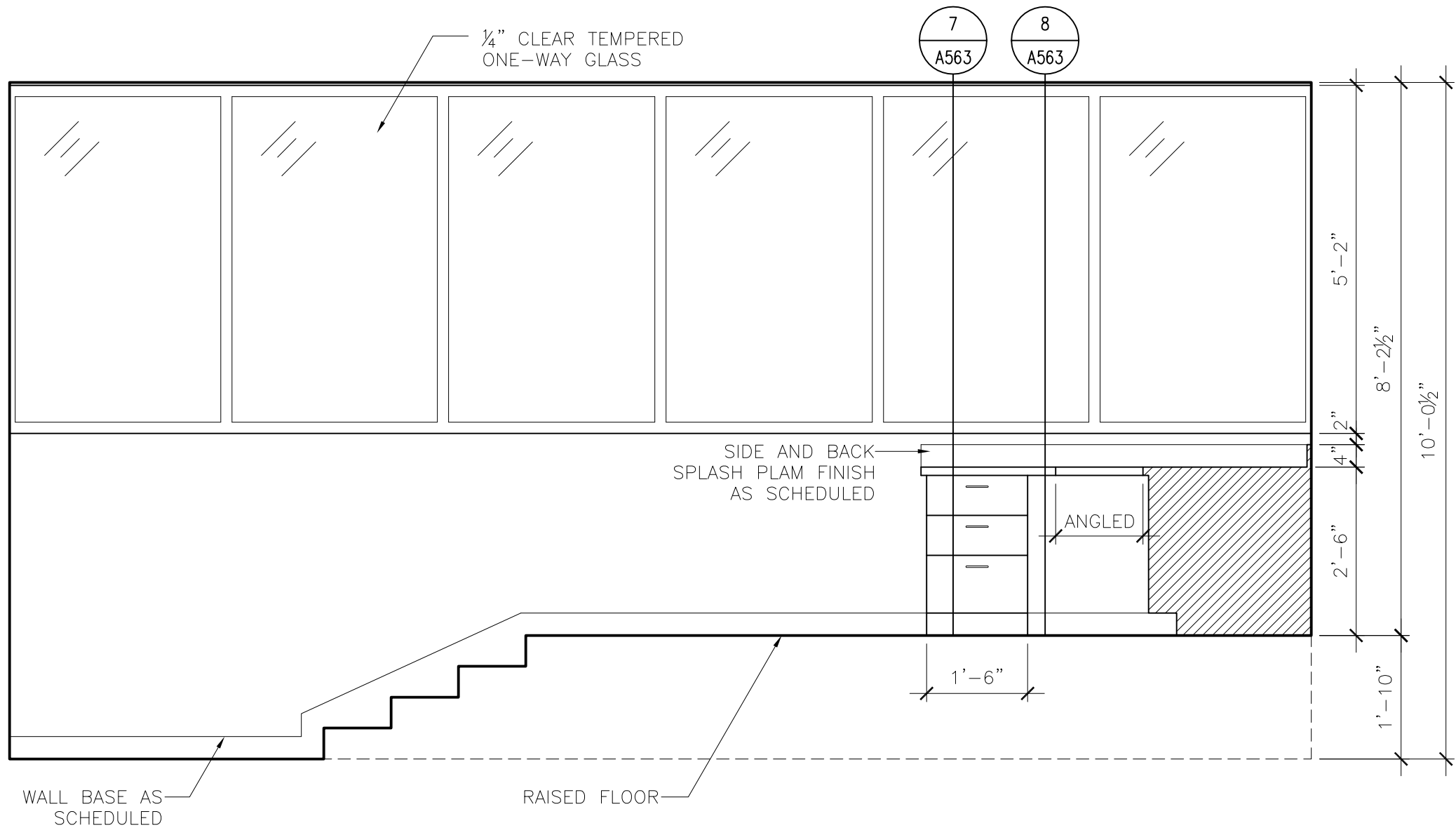
**4 ROVER RM ELEVATION (RM 245)**  
1/2" = 1'-0"



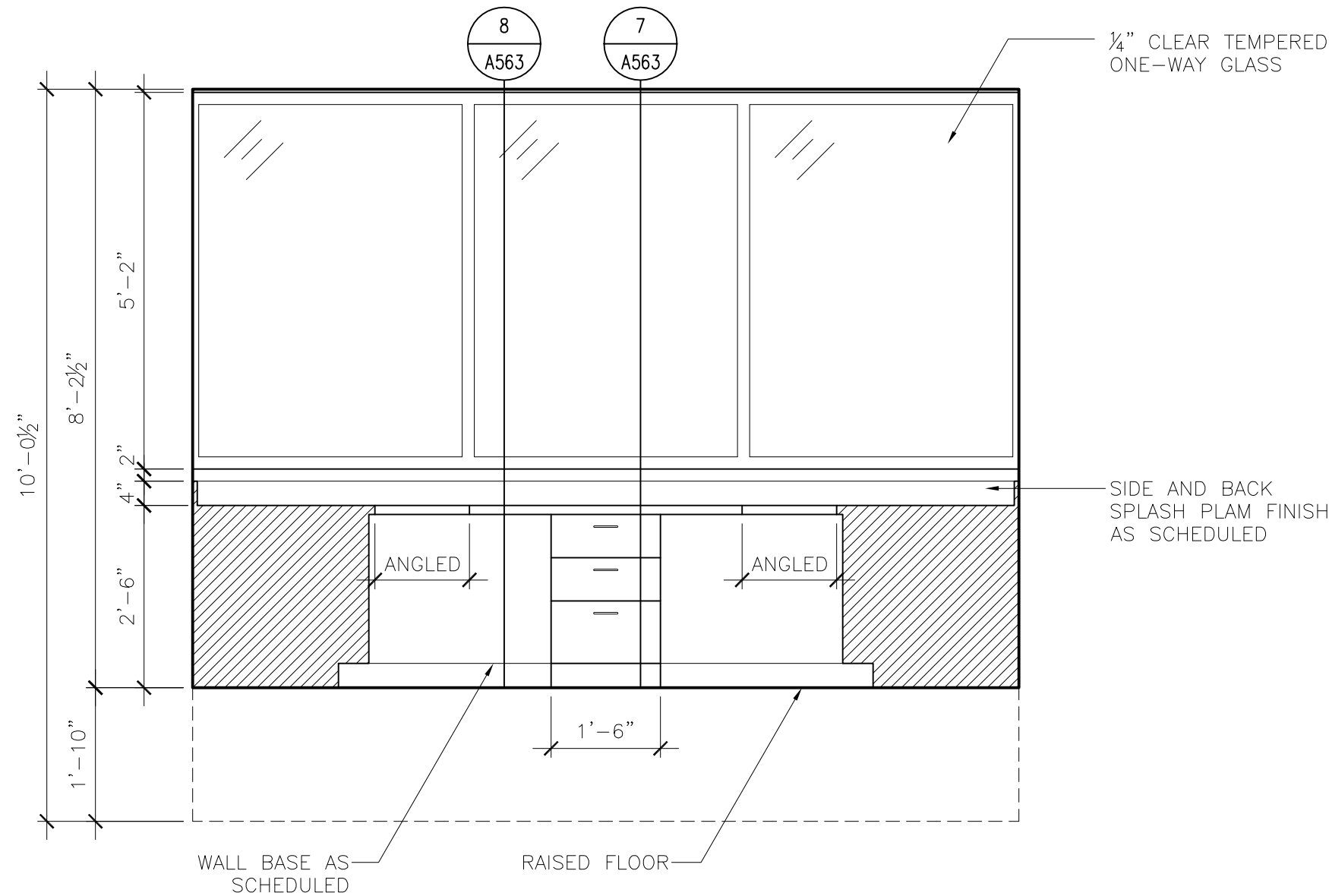
**3 SECONDARY X-RAY ELEVATION (RM 159)**  
1/2" = 1'-0"



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



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



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



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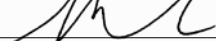
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Print Name: Mark Ip

Signature: 

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: VO

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

**213-1882-091**

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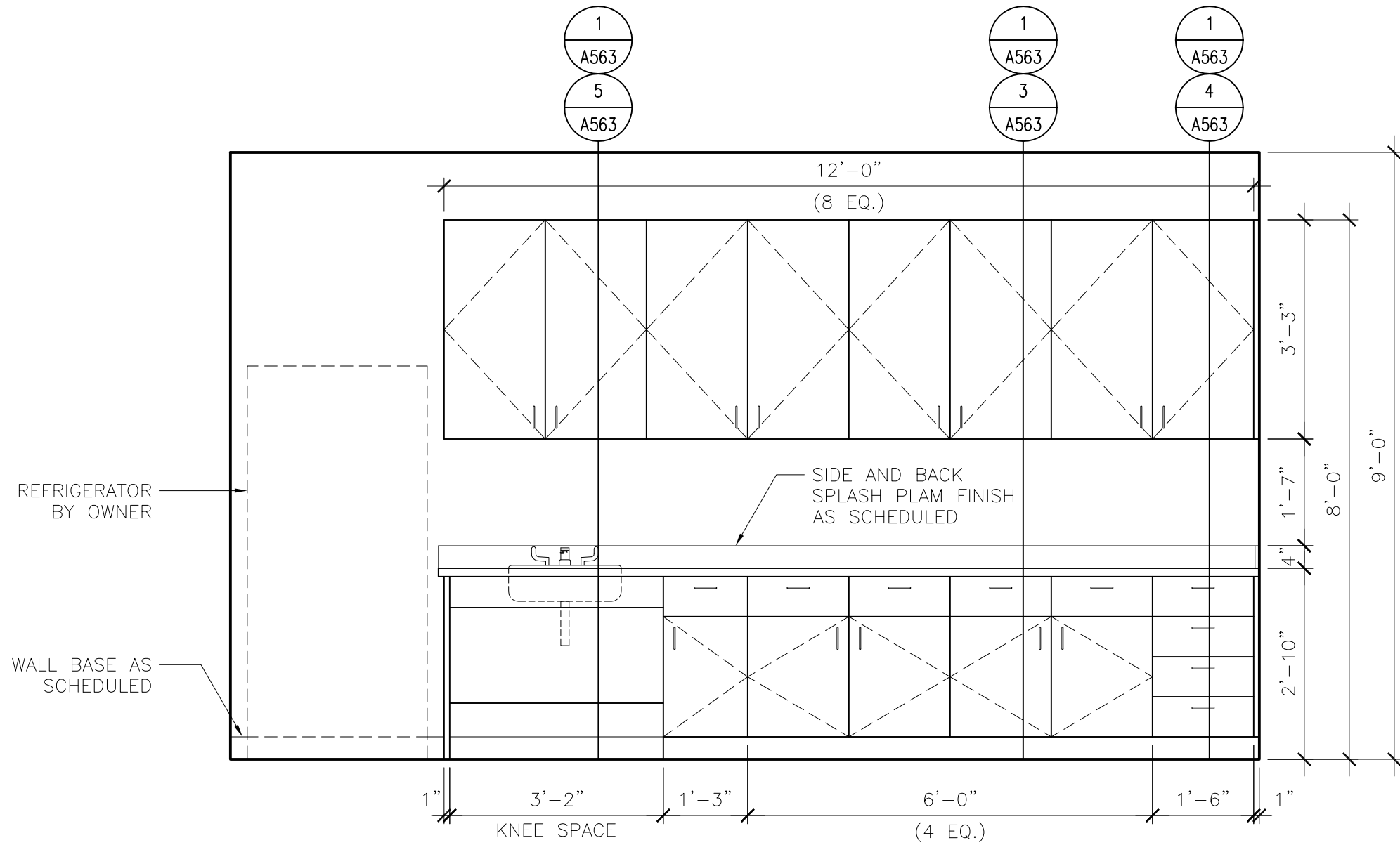
SHEET TITLE

**MILLWORK  
ELEVATIONS  
AND  
DETAILS**

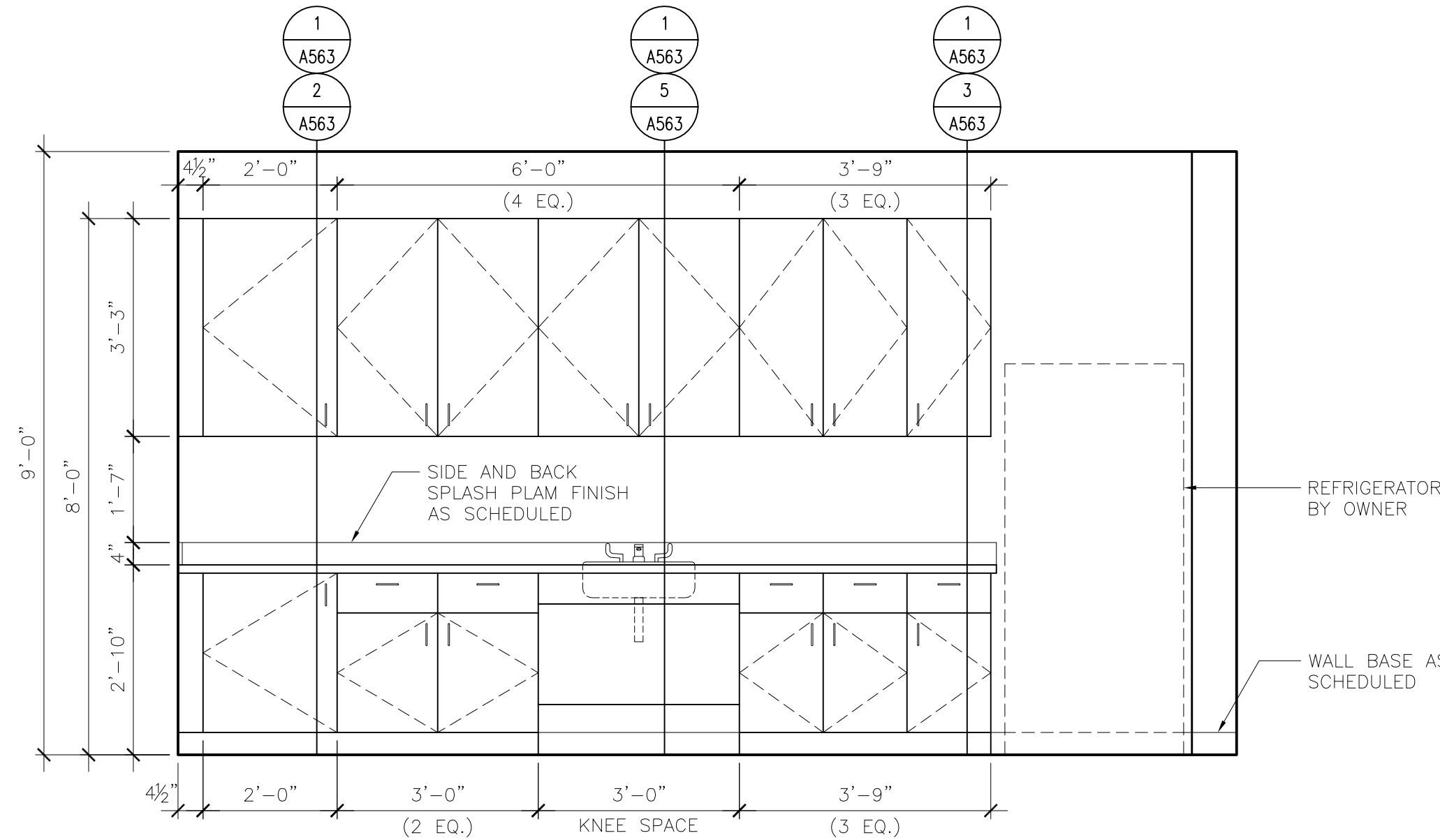
SHEET NUMBER

**A562**

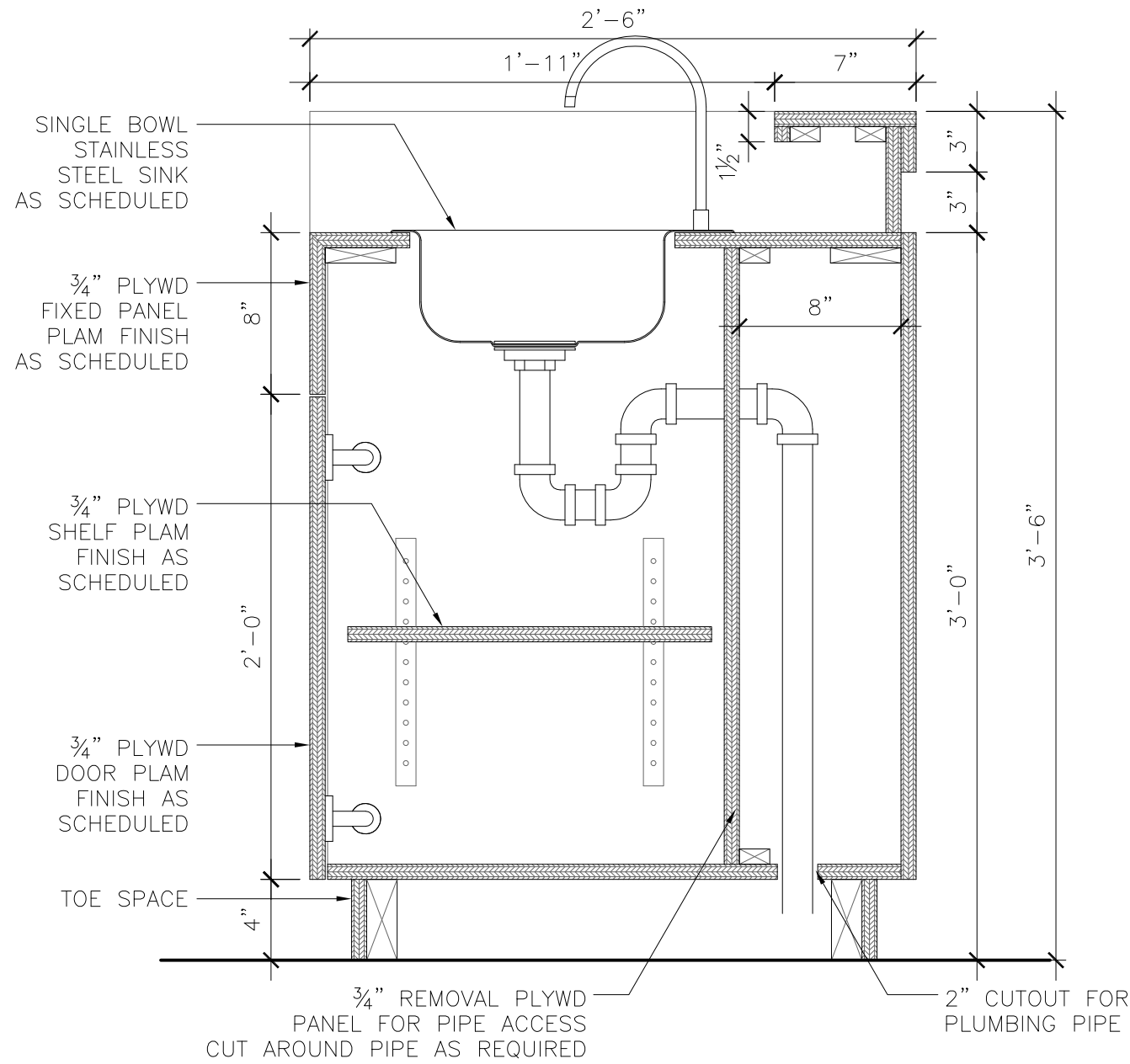
**BUILDING  
PERMIT**



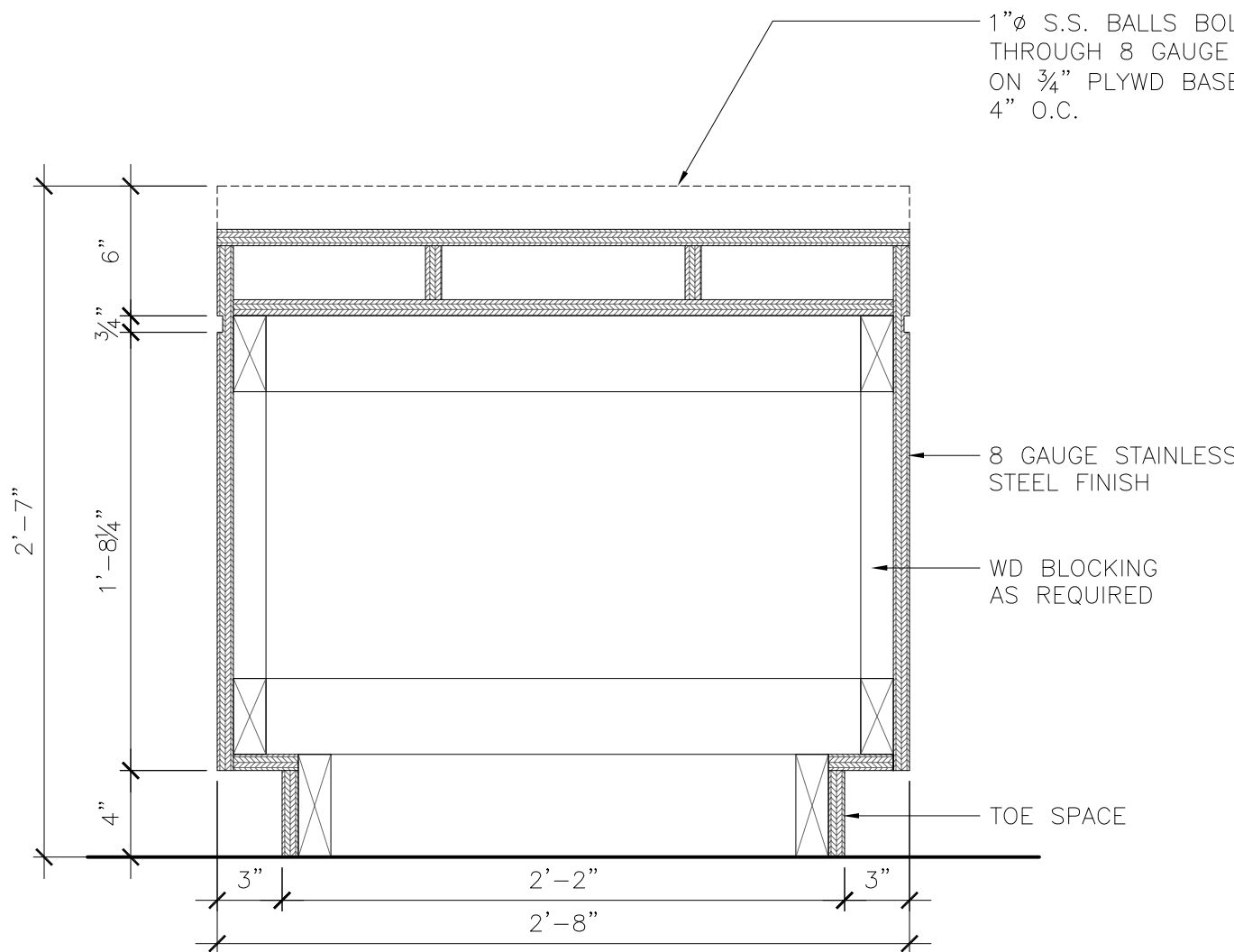
**2 OPEN OFFICE ELEVATION (RM 328)**  
1/2" = 1'-0"



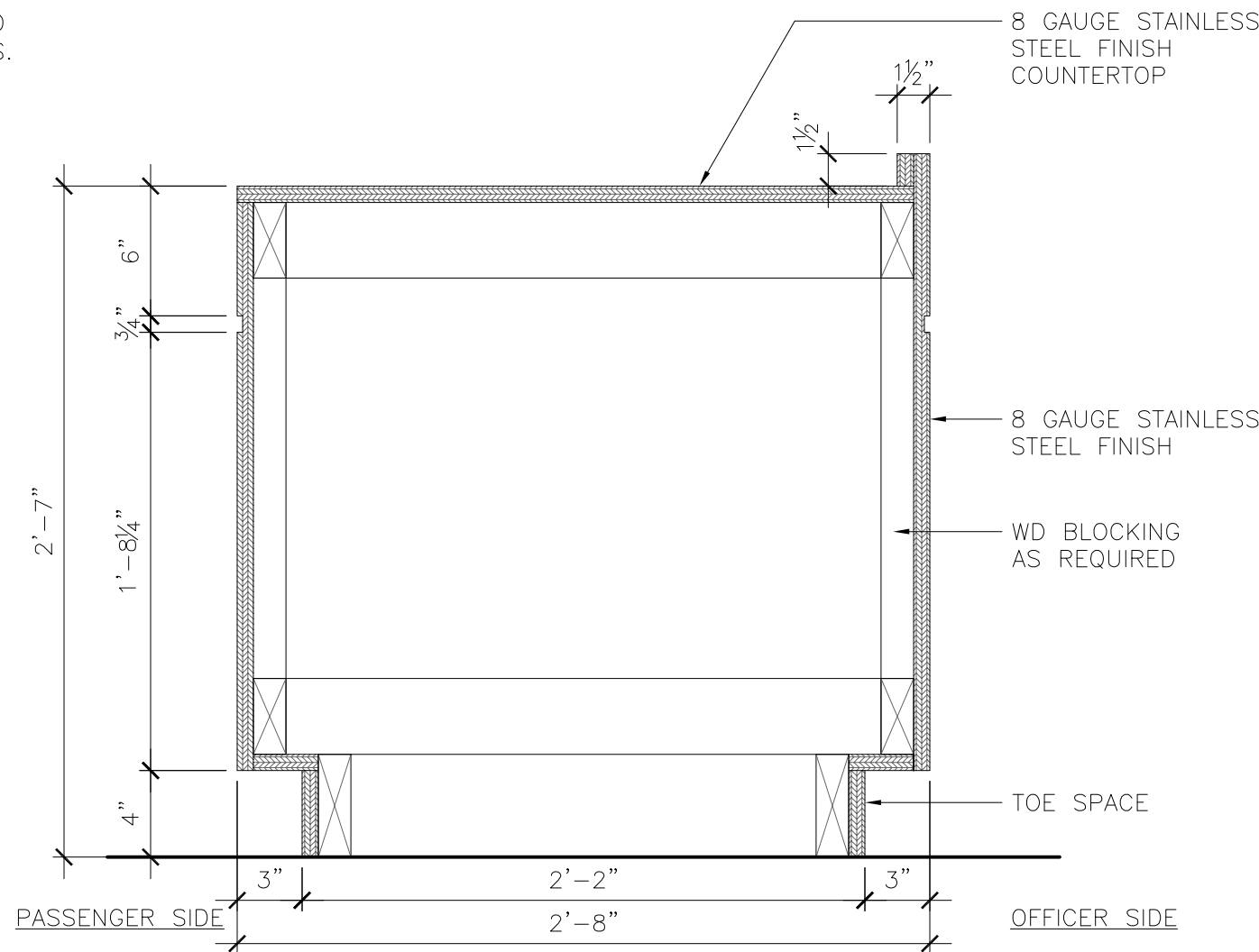
**1 BREAK RM ELEVATION (RM 310)**  
1/2" = 1'-0"



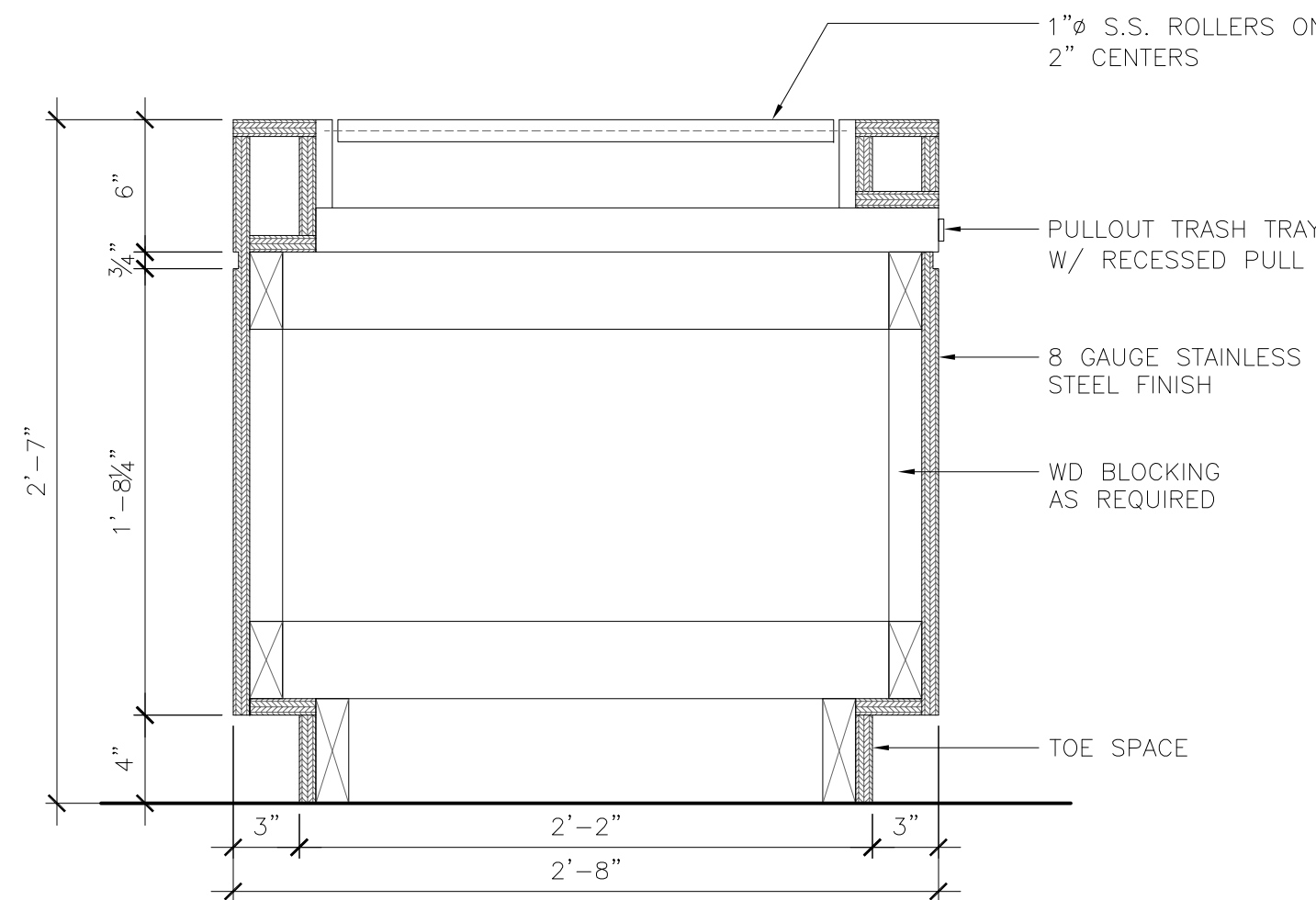
**7 S.S. SINK COUNTER SECTION**  
1-1/2" = 1'-0"



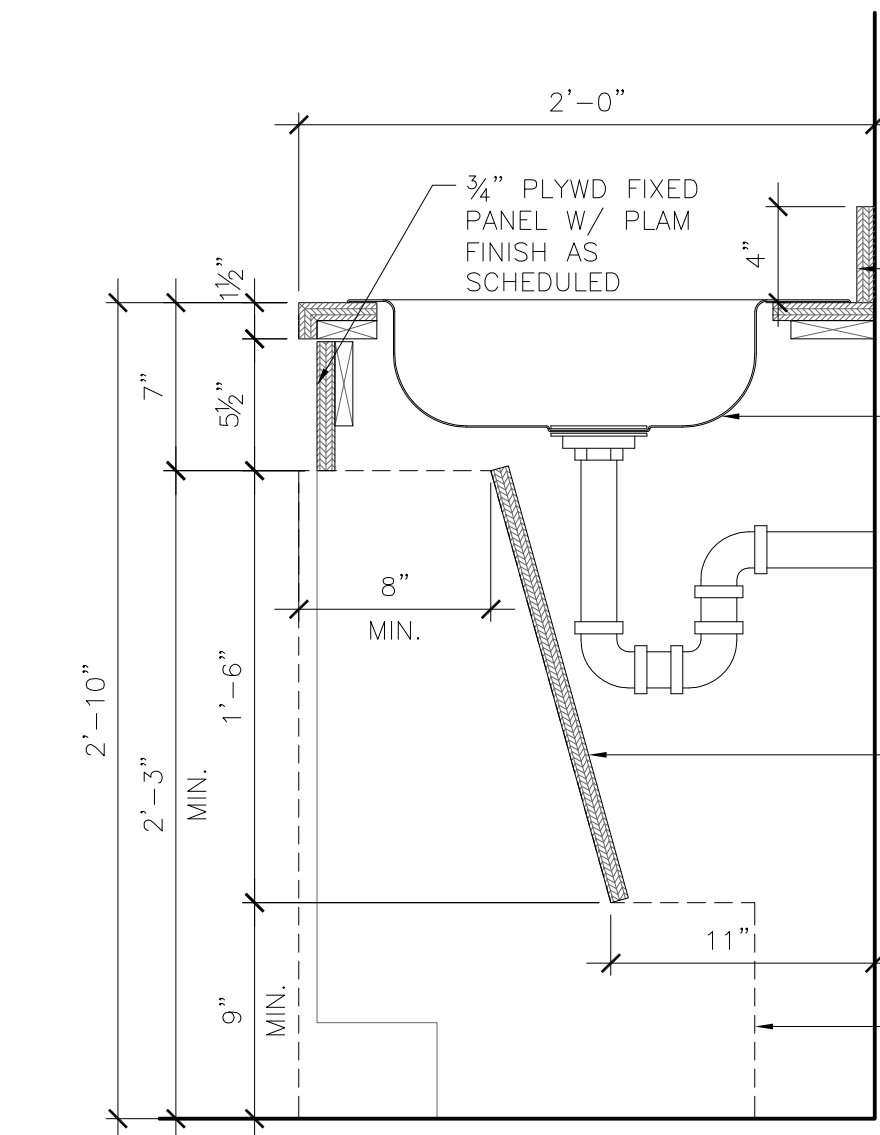
**6 BAGGAGE X-RAY INSPECTION STATION SECTION**  
1-1/2" = 1'-0"



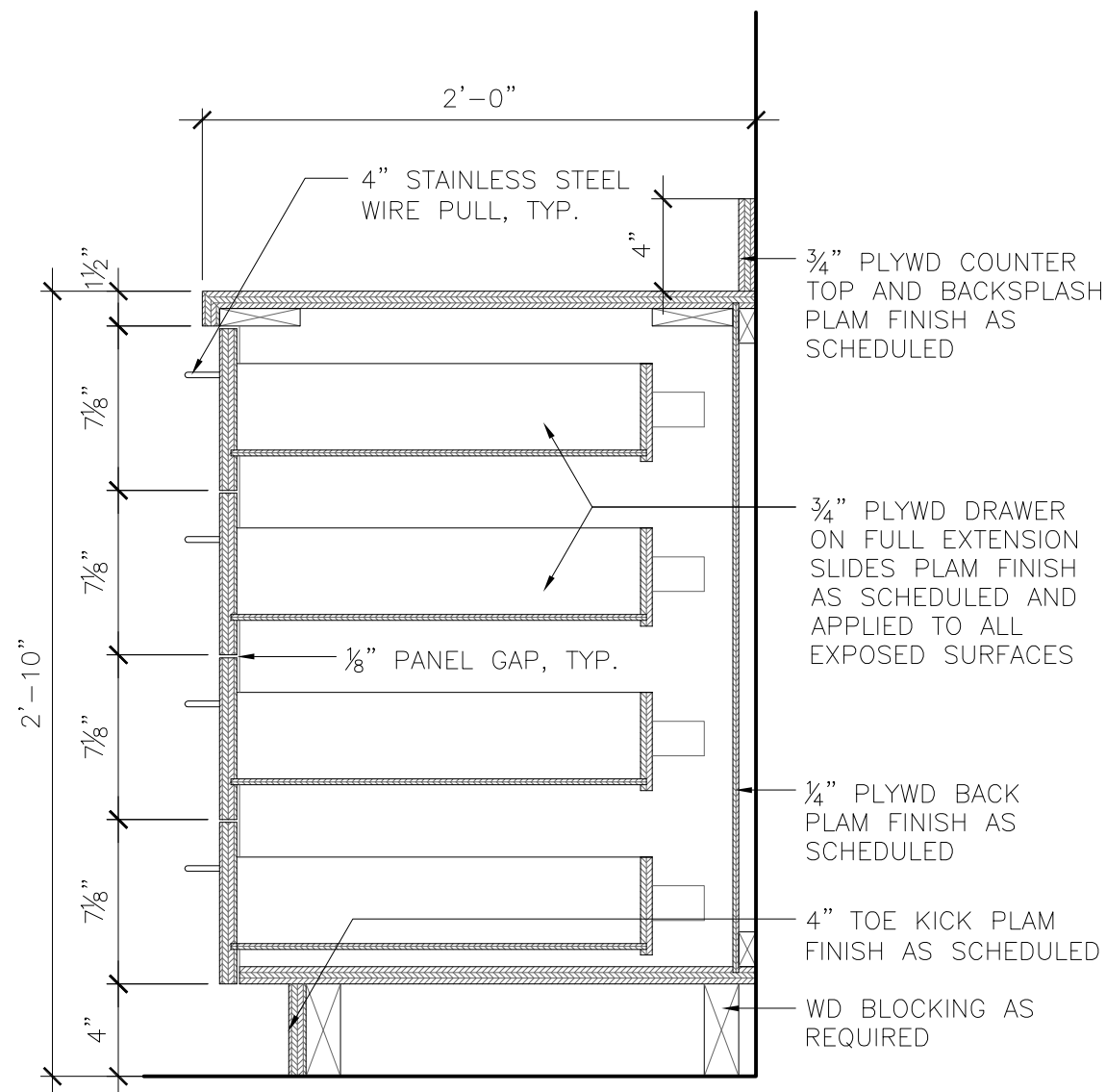
**5 BAGGAGE X-RAY INSPECTION STATION SECTION**  
1-1/2" = 1'-0"



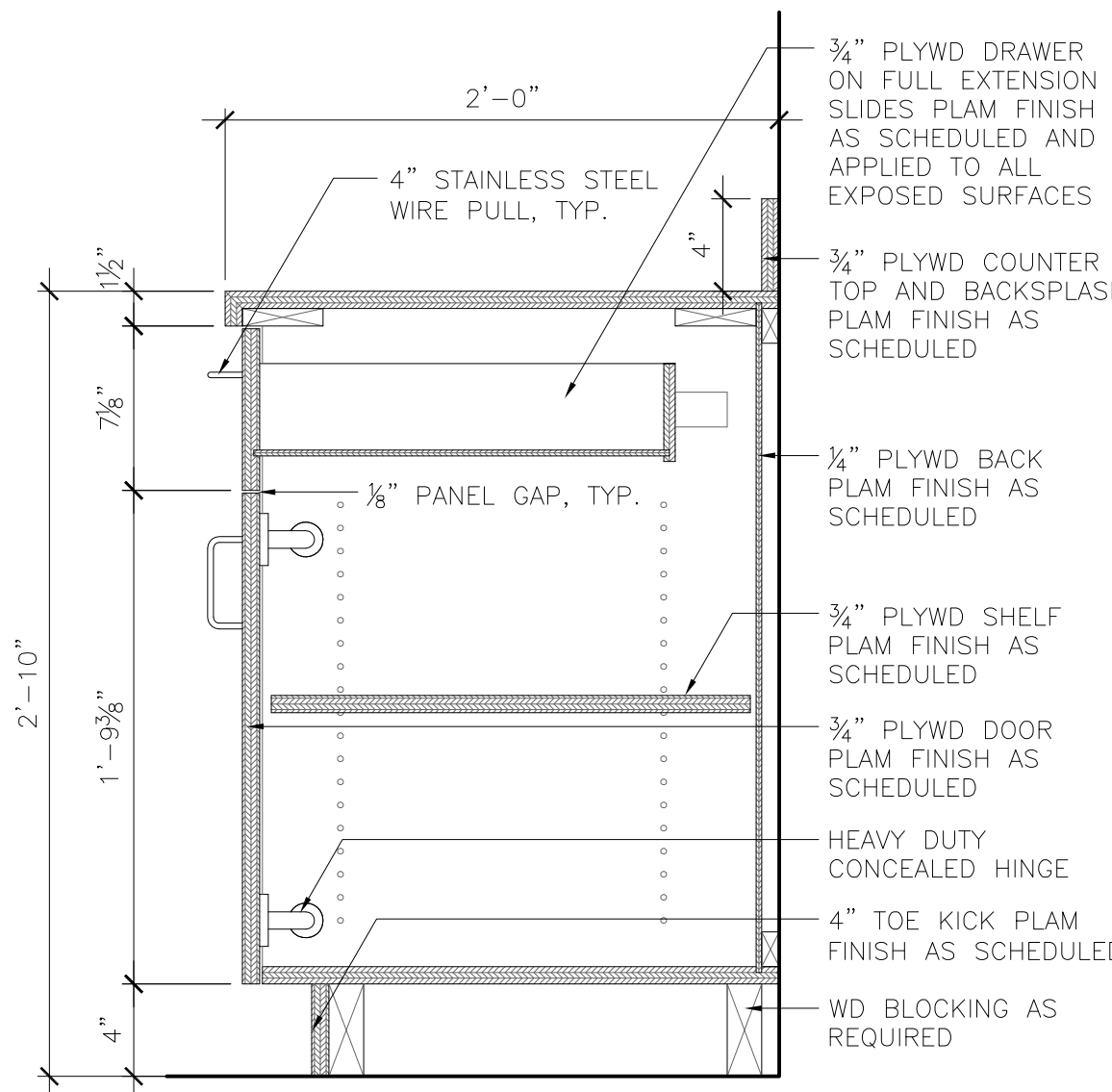
**4 BAGGAGE X-RAY INSPECTION STATION SECTION**  
1-1/2" = 1'-0"



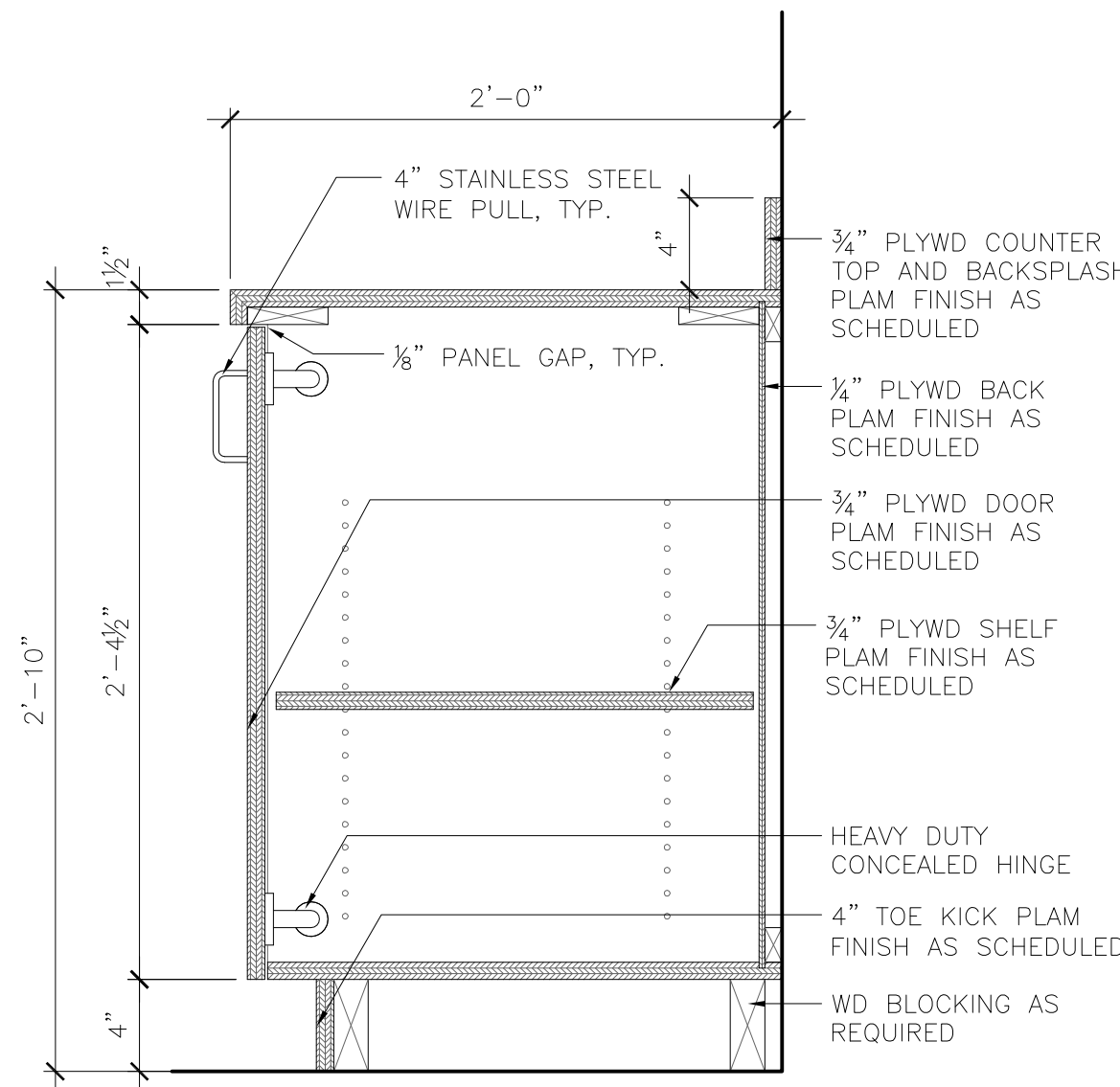
5 BASE CABINET/SINK SECTION  
1-1/2" = 1'-0"



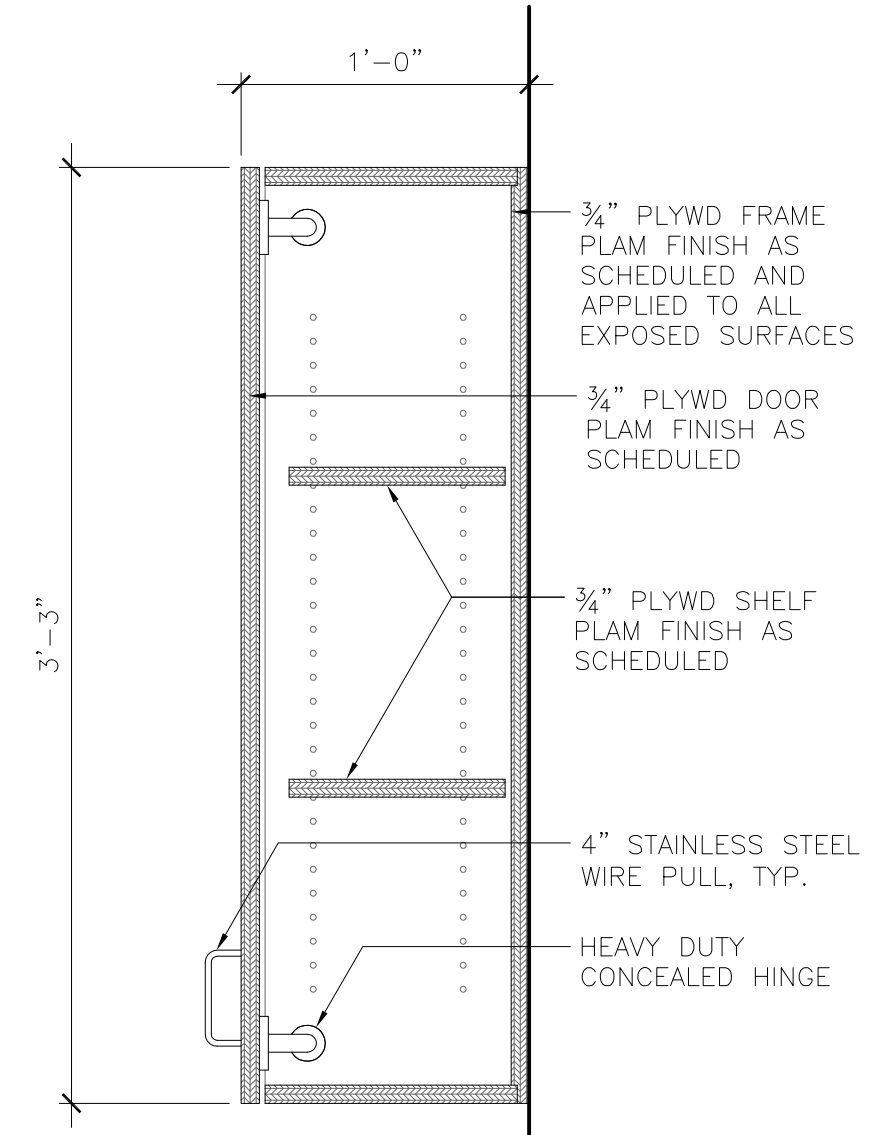
4 BASE CABINET SECTION  
1-1/2" = 1'-0"



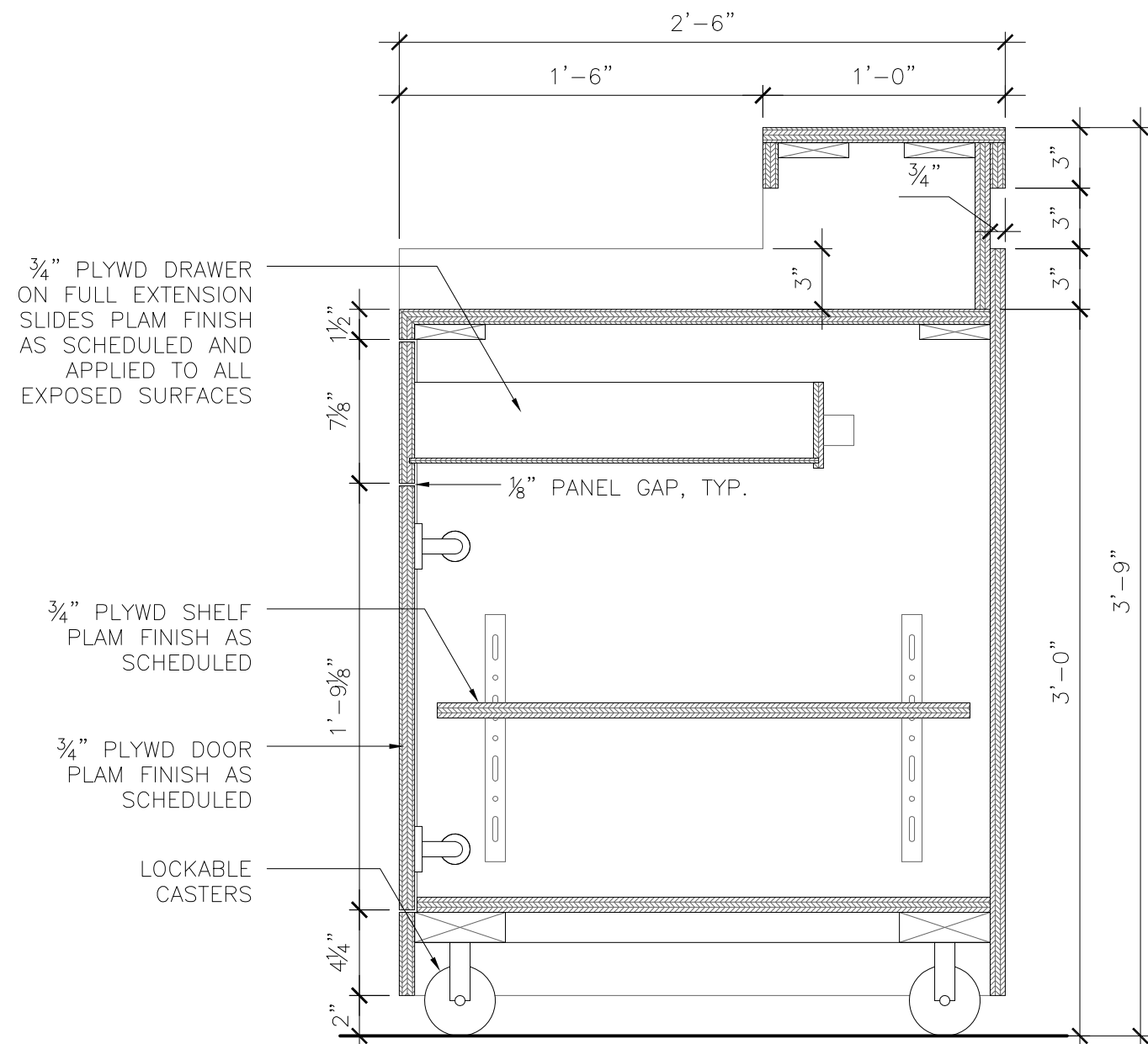
3 BASE CABINET SECTION  
1-1/2" = 1'-0"



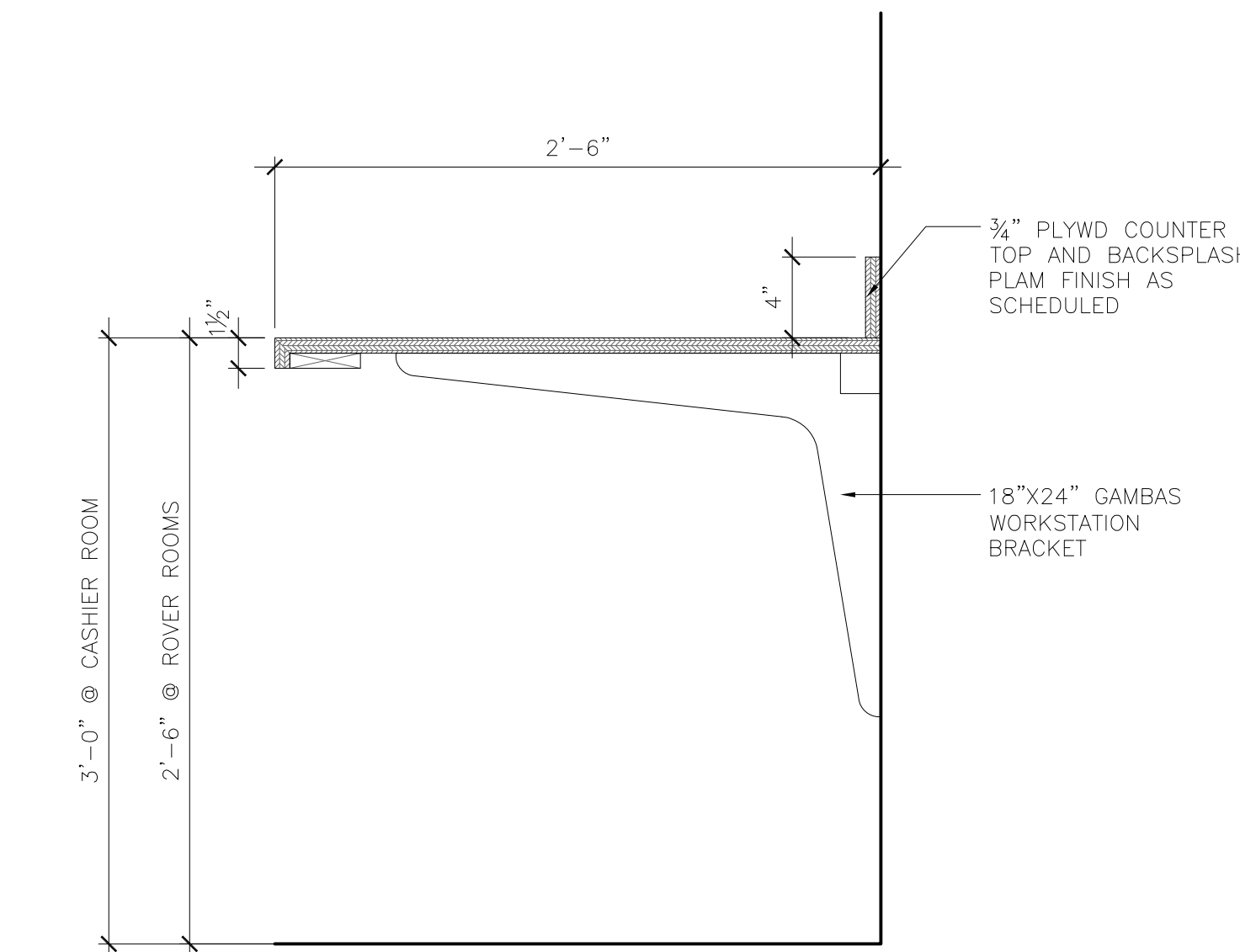
2 BASE CABINET SECTION  
1-1/2" = 1'-0"



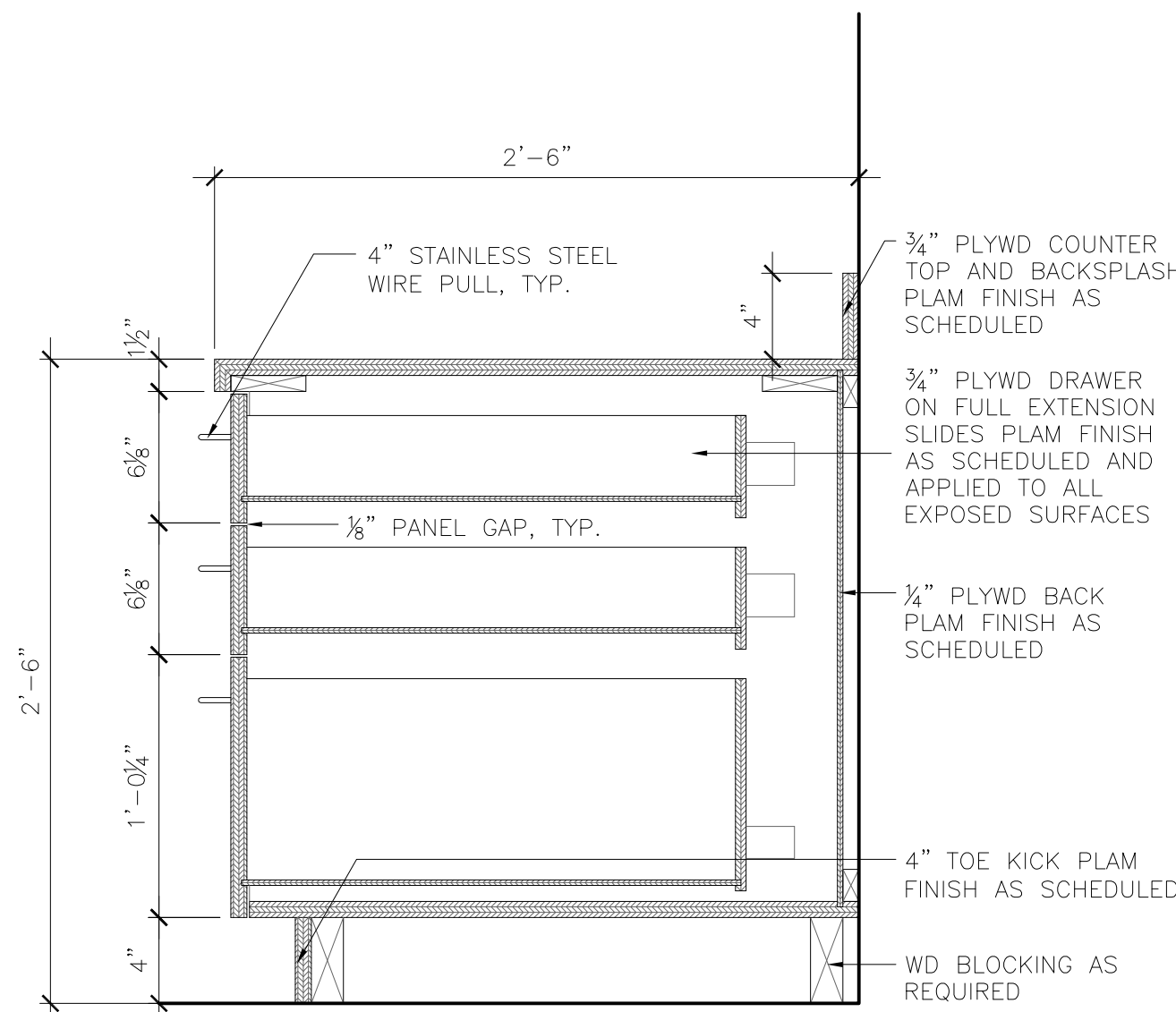
1 UPPER CABINET SECTION  
1-1/2" = 1'-0"



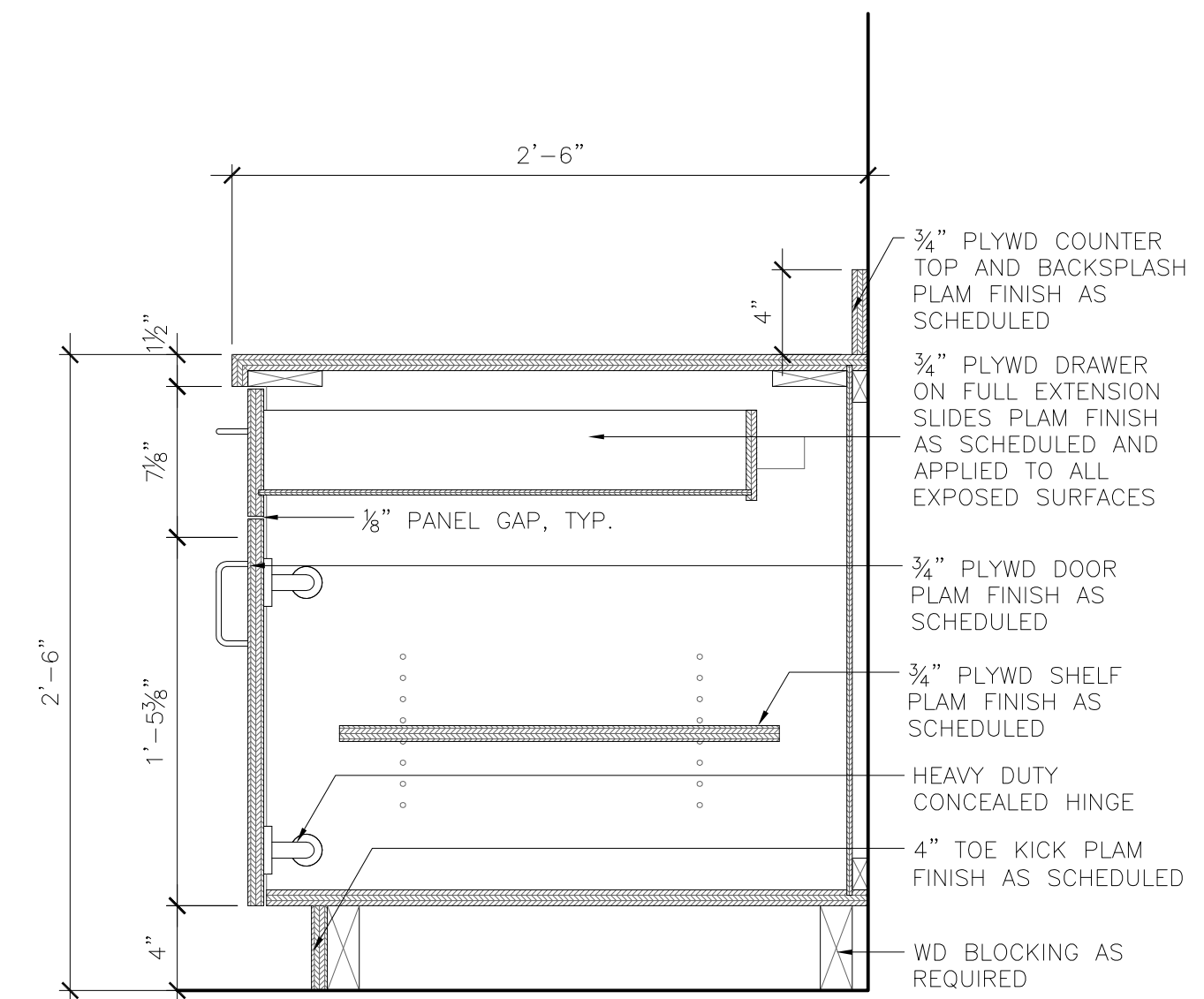
9 MOBILE PODIUM SECTION  
1-1/2" = 1'-0"



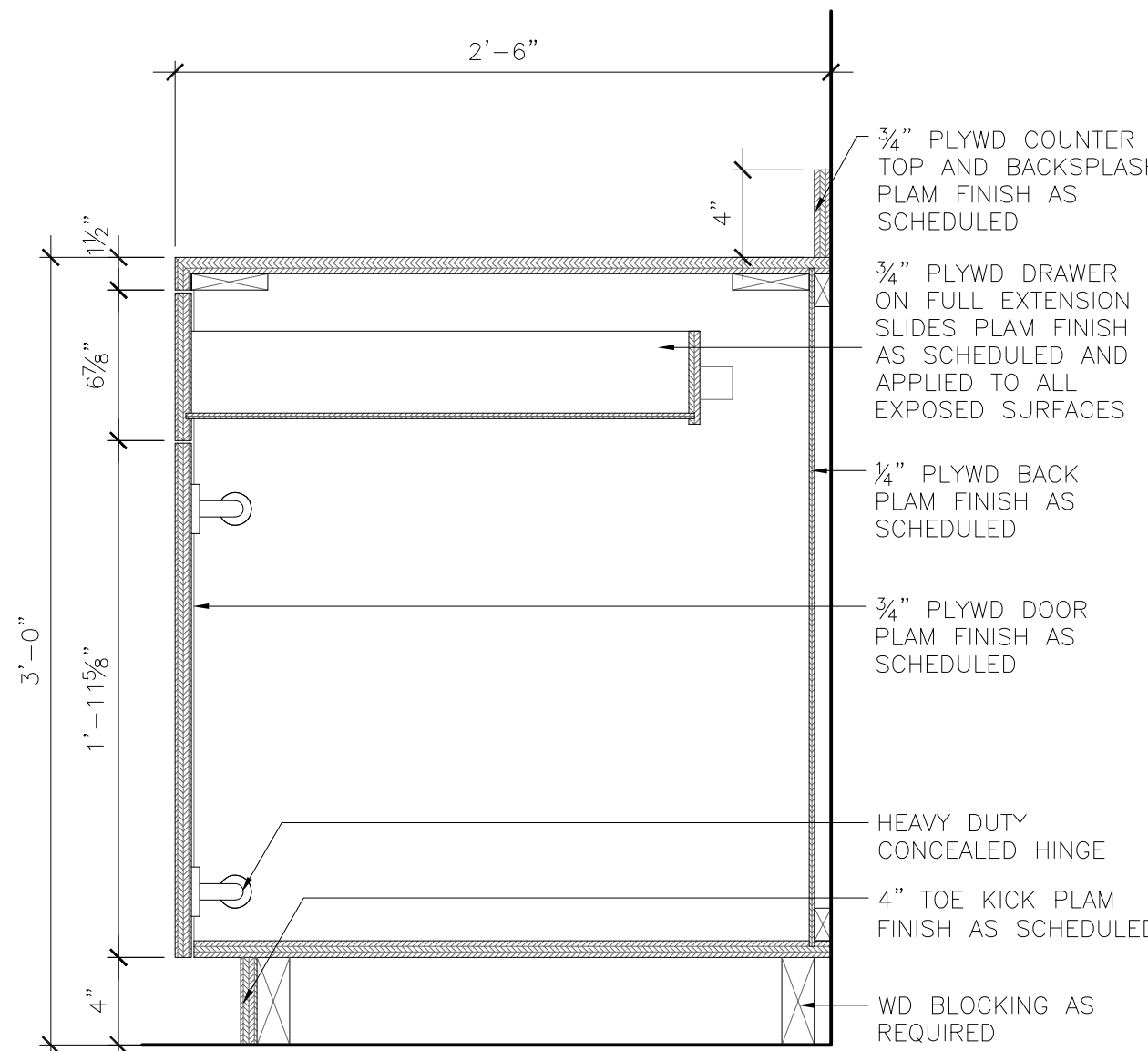
8 COUNTERTOP SECTION  
1-1/2" = 1'-0"



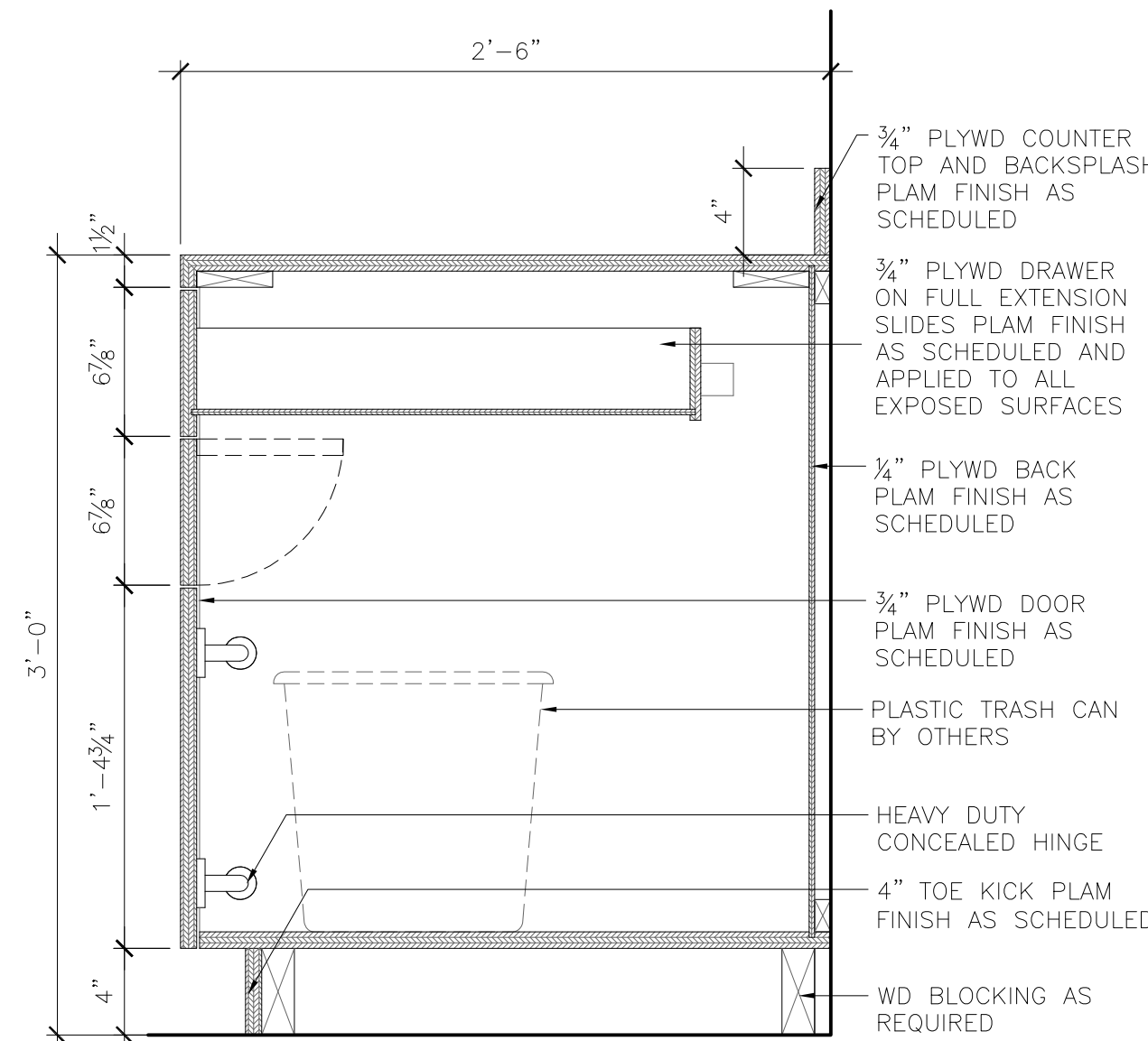
7 BASE CABINET SECTION  
1-1/2" = 1'-0"



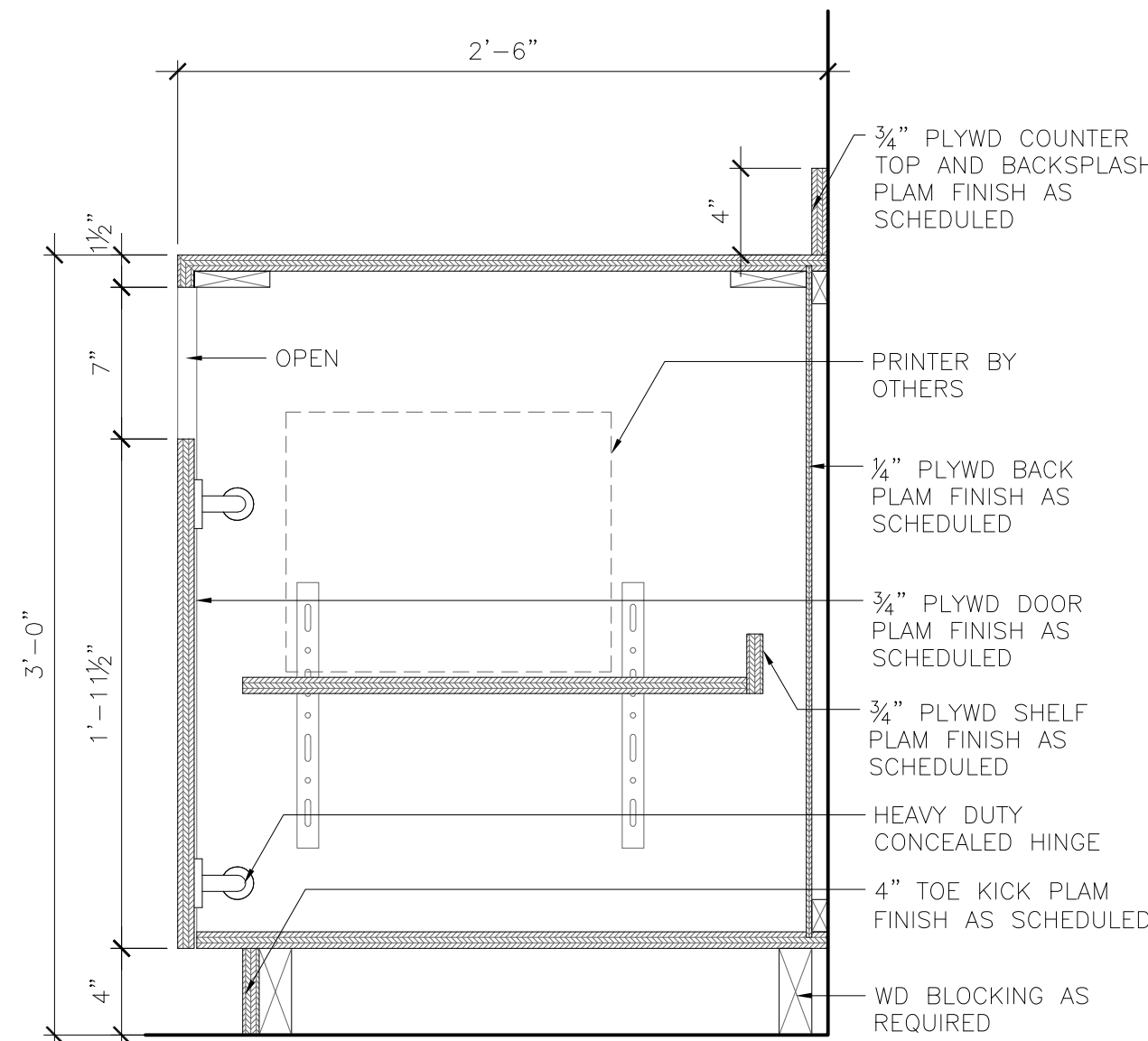
6 BASE CABINET SECTION  
1-1/2" = 1'-0"



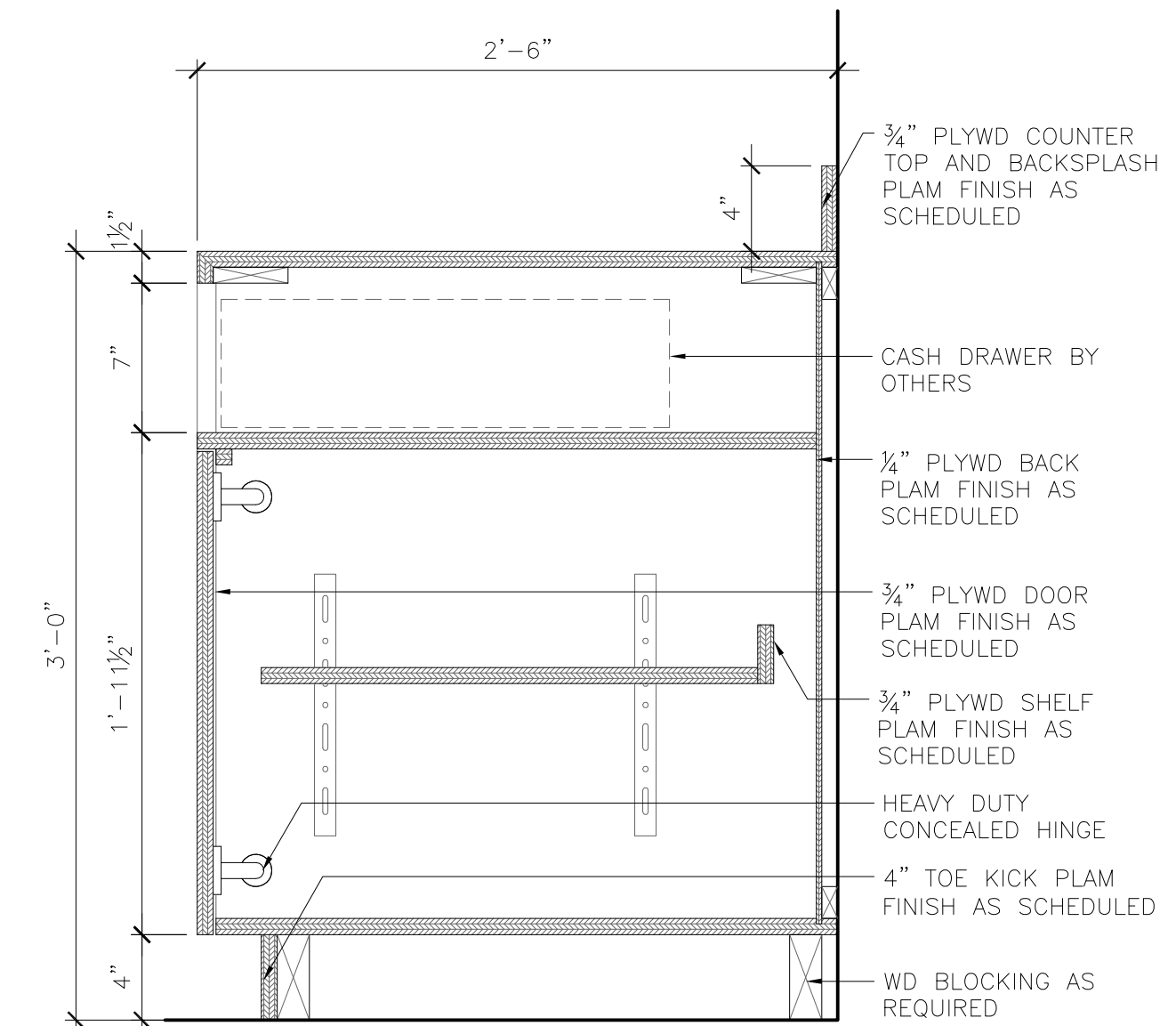
13 CASHIER BASE CABINET SECTION  
1-1/2" = 1'-0"



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



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



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

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Signature:

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

**DATE ISSUED: 08-16-10**  
**REVIEWED BY: SBS/TC**  
**DRAWN BY: VO**  
**DESIGNED BY: SBS/TC**

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

**MILLWORK  
DETAILS**

**SHEET NUMBER**

**A563**

**BUILDING  
PERMIT**

**CONSULTANTS**

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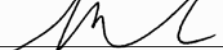
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4	BUILDING PERMIT	8.16.10

**DATE ISSUED:** 08-16-10  
**REVIEWED BY:** SBS/TC  
**DRAWN BY:** MKG/MI  
**DESIGNED BY:** SBS/TC

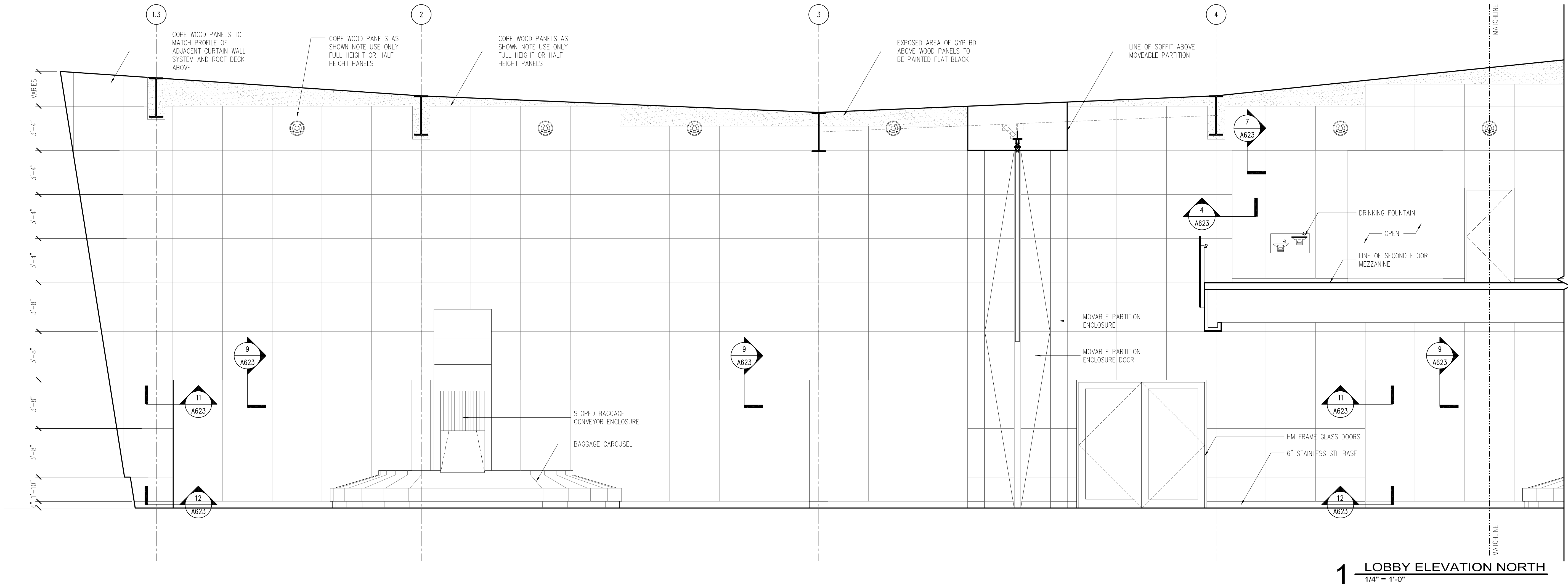
**AEP PROJECT NUMBER**  
**213-1882-091**  
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**SHEET TITLE**  
**INTERIOR  
ELEVATIONS**

**SHEET NUMBER**

**A601**

**BUILDING  
PERMIT**



**1 LOBBY ELEVATION NORTH**  
1/4" = 1'-0"



**CONSULTANTS**

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**SJA ARCHITECTS**  
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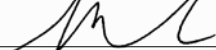
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**REVIEWED BY:** SBS/TC

**DRAWN BY:** MKG/MI

**DESIGNED BY:** SBS/TC

**AEP PROJECT NUMBER**

**213-1882-091**

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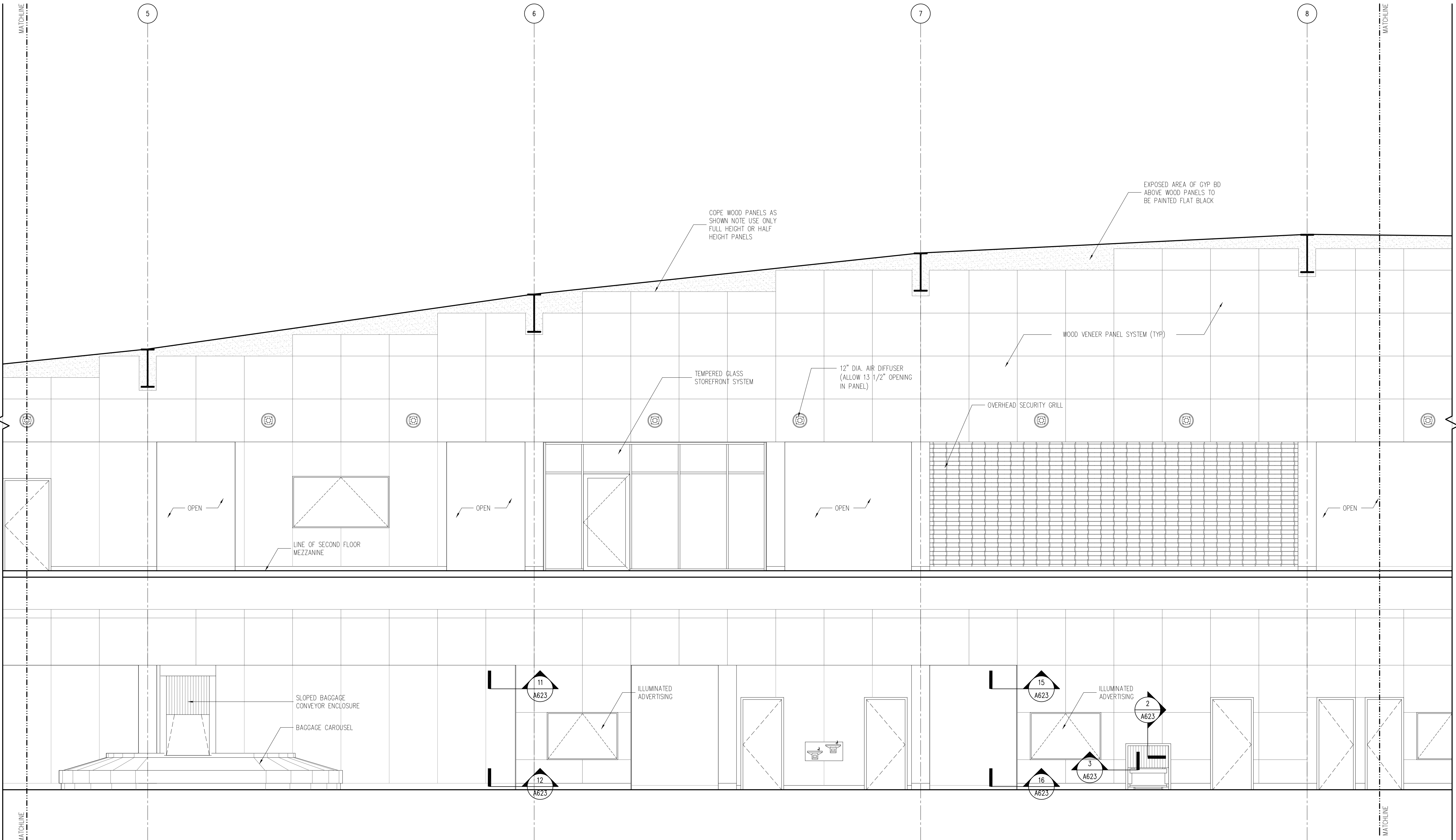
**SHEET TITLE**

**INTERIOR  
ELEVATIONS**

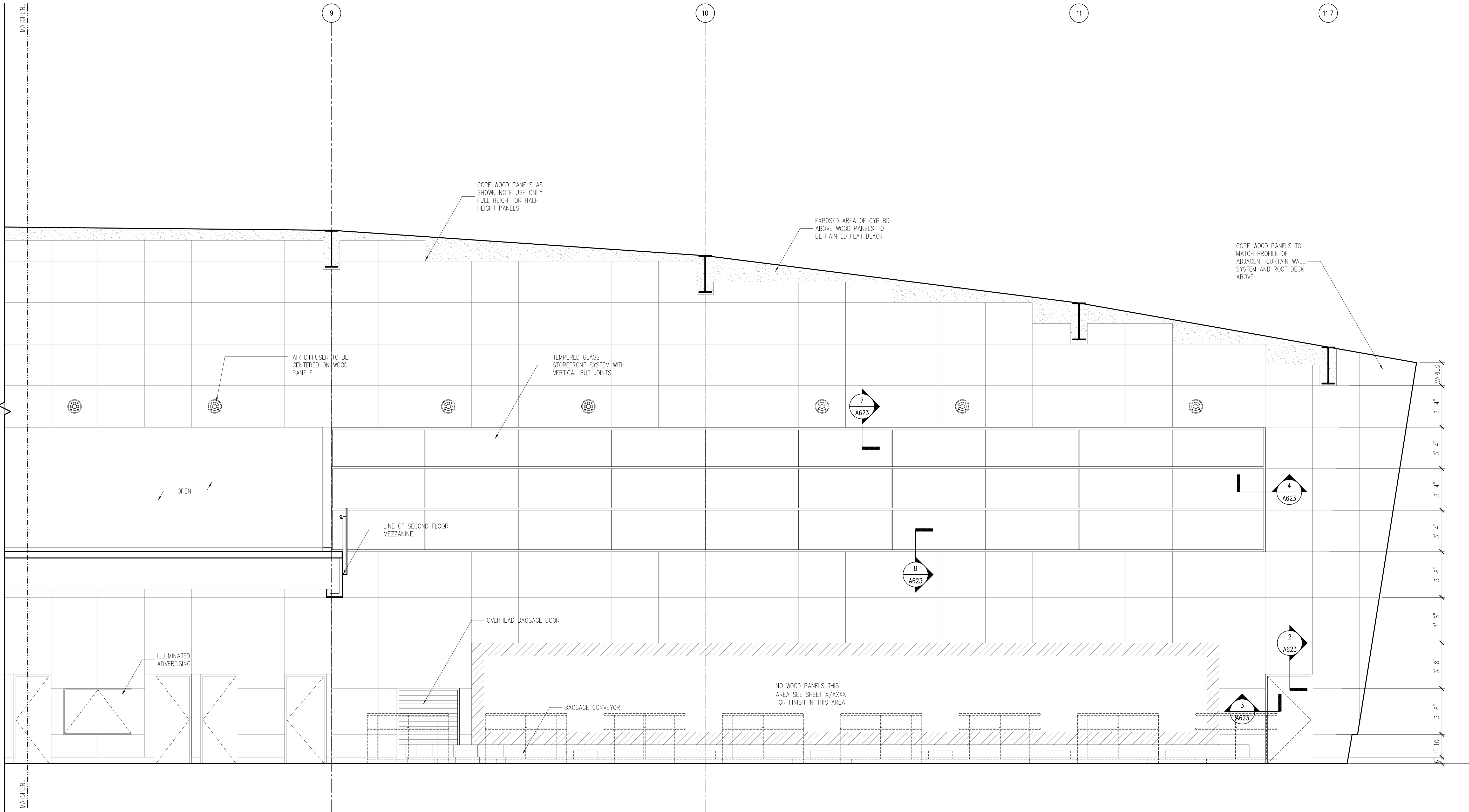
**SHEET NUMBER**

**A602**

**BUILDING  
PERMIT**



**1 LOBBY ELEVATION NORTH**  
1/4" = 1'-0"



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

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Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

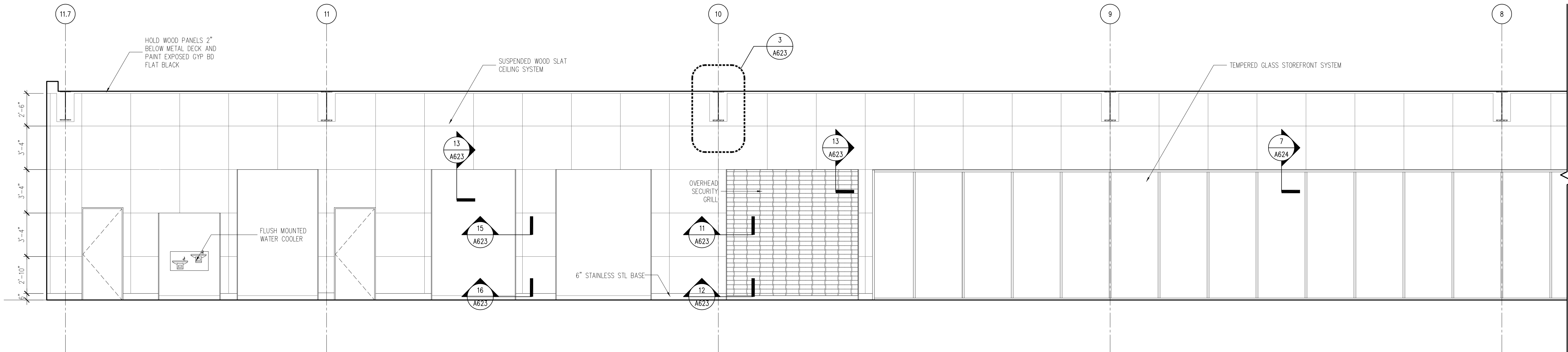
REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

**DATE ISSUED:** 08-16-10  
**REVIEWED BY:** SBS/TC  
**DRAWN BY:** MKG/MI  
**DESIGNED BY:** SBS/TC

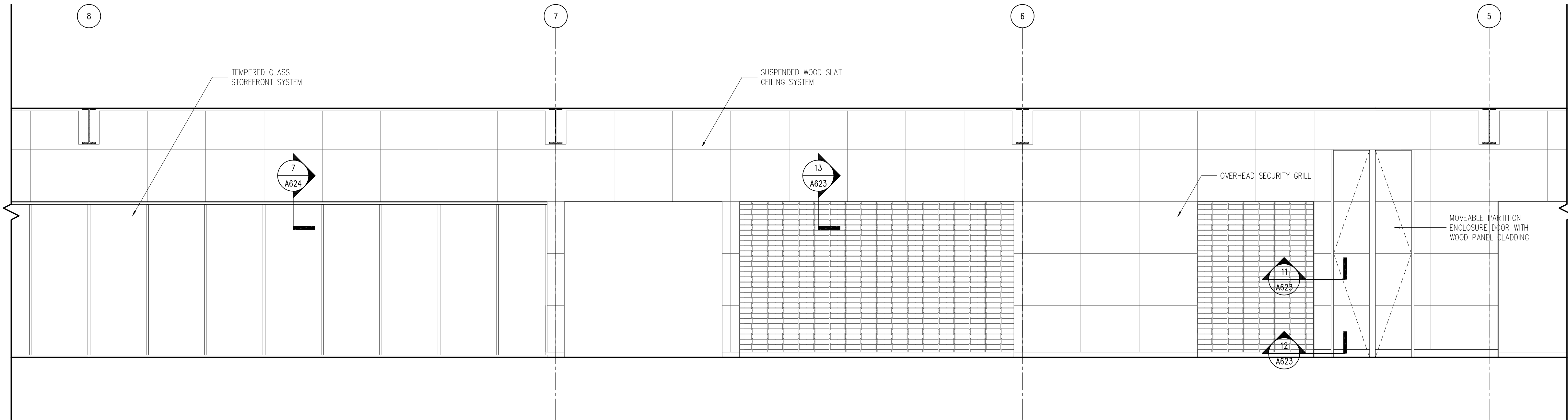
**AEP PROJECT NUMBER**  
**213-1882-091**  
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**SHEET TITLE**  
**INTERIOR  
ELEVATIONS**

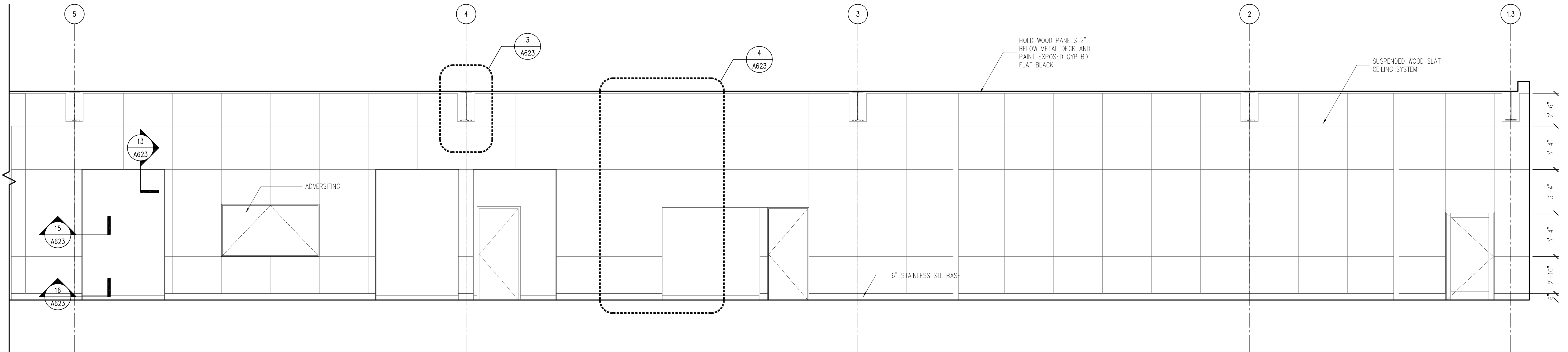
**SHEET NUMBER**  
**A603**  
**BUILDING  
PERMIT**



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



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



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

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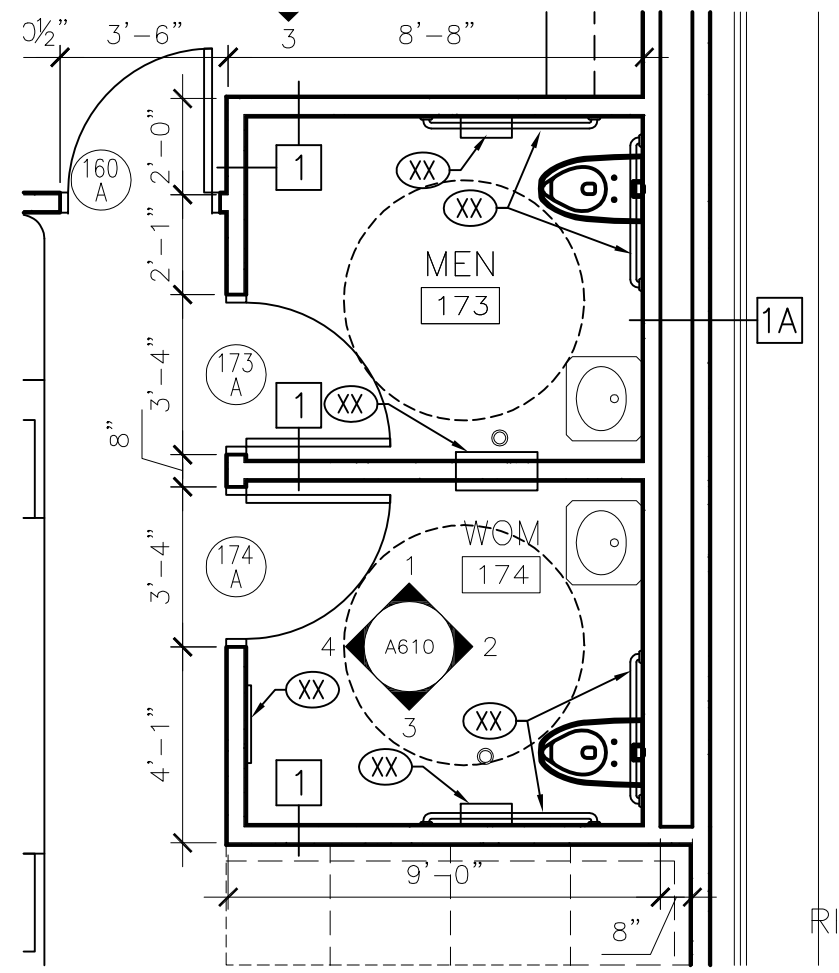
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**INTERIOR  
ELEVATIONS**

**SHEET NUMBER**

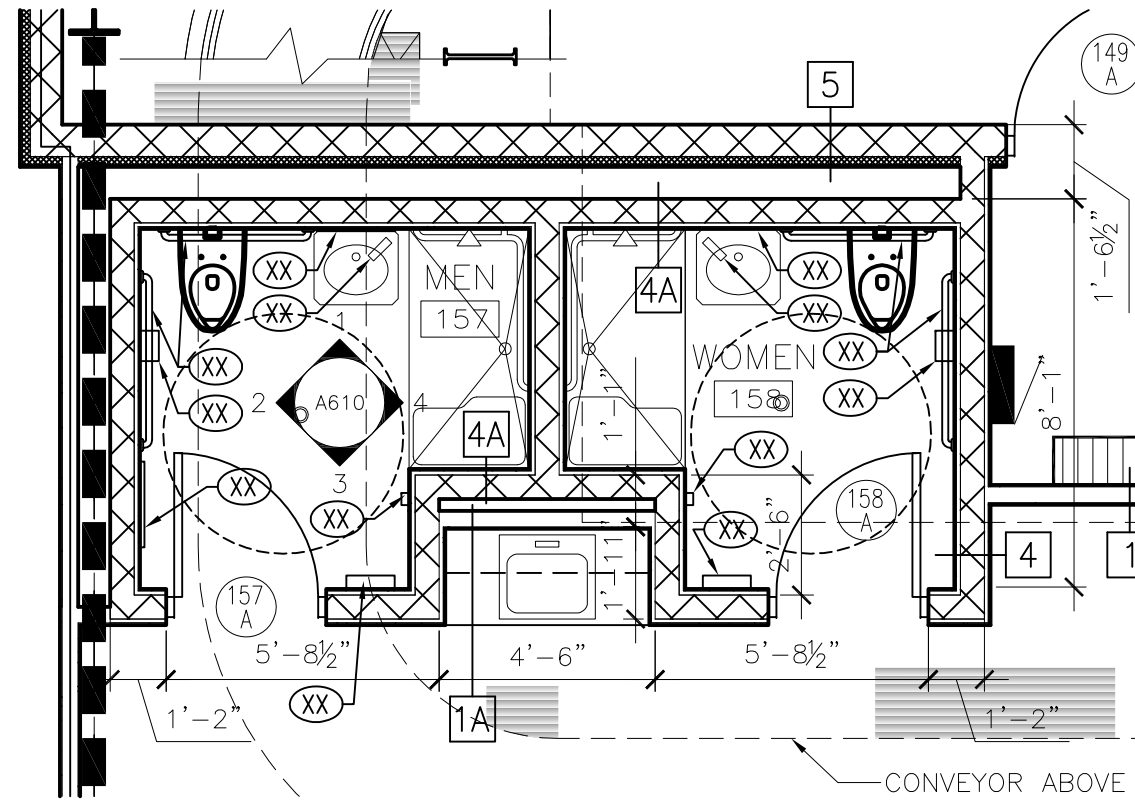
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**BUILDING  
PERMIT**

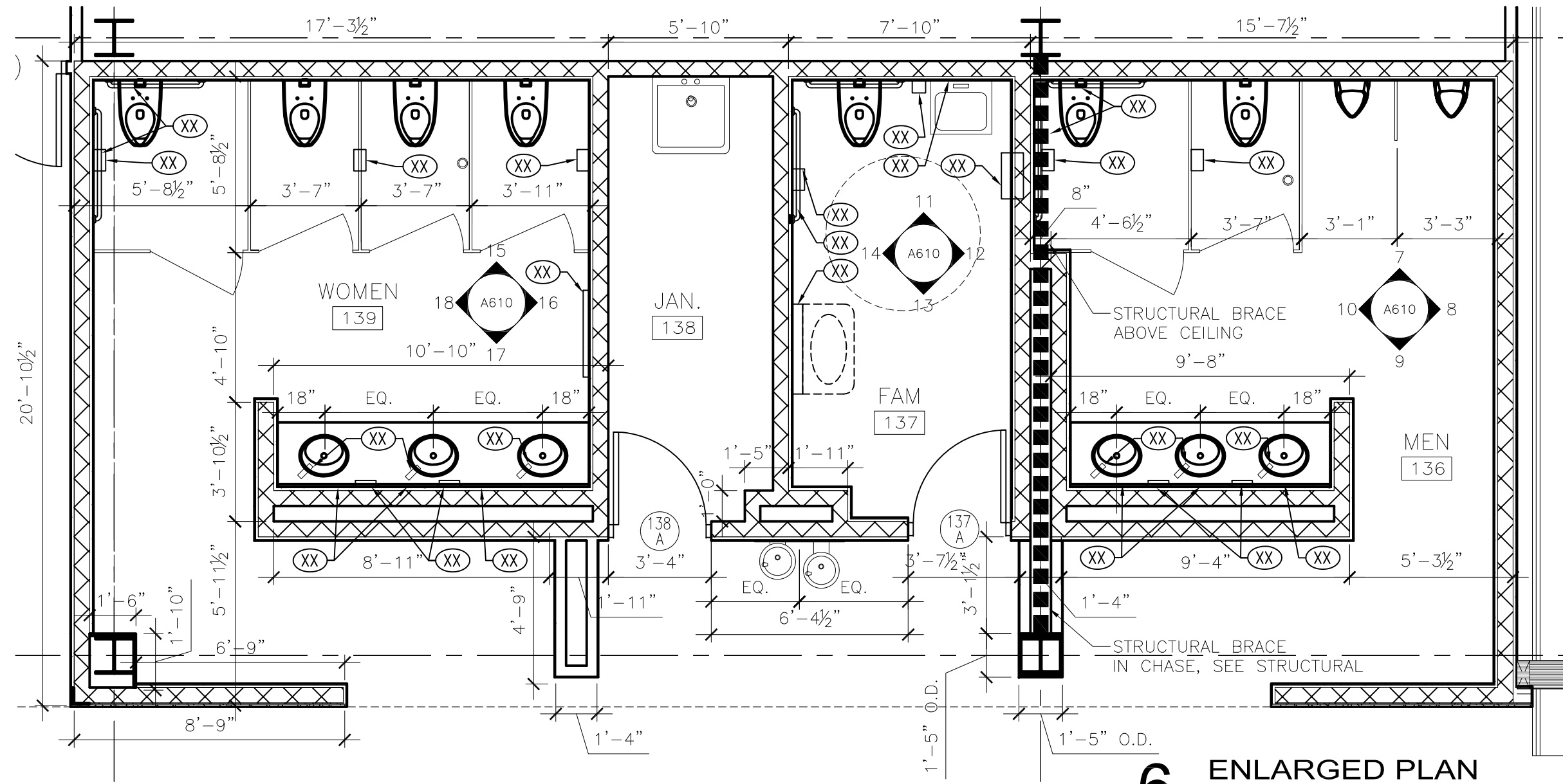




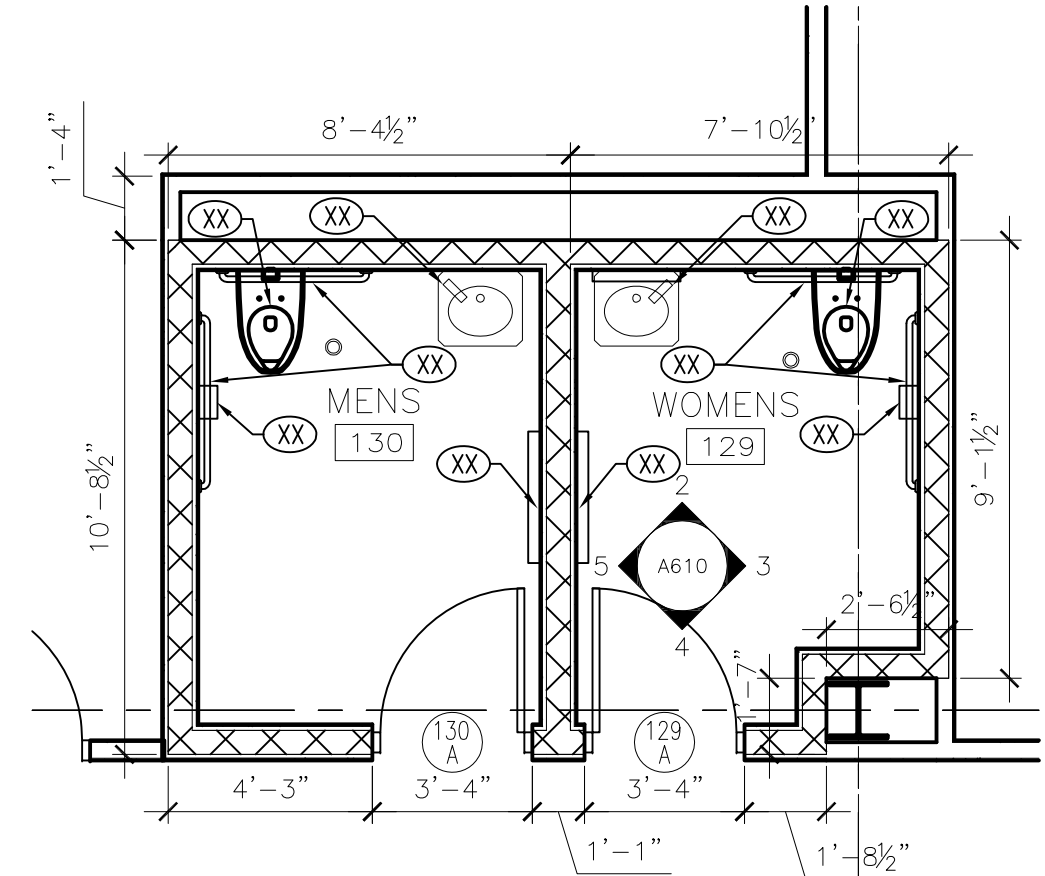
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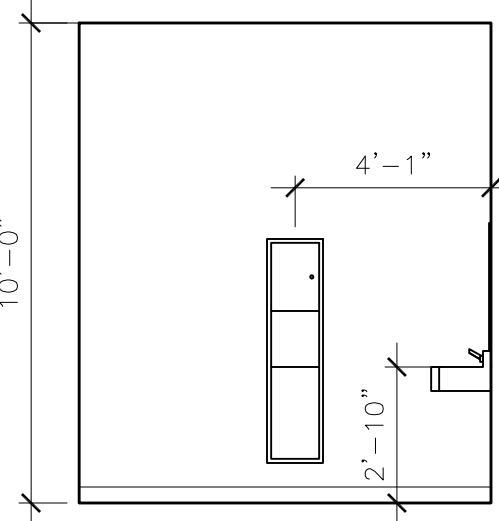
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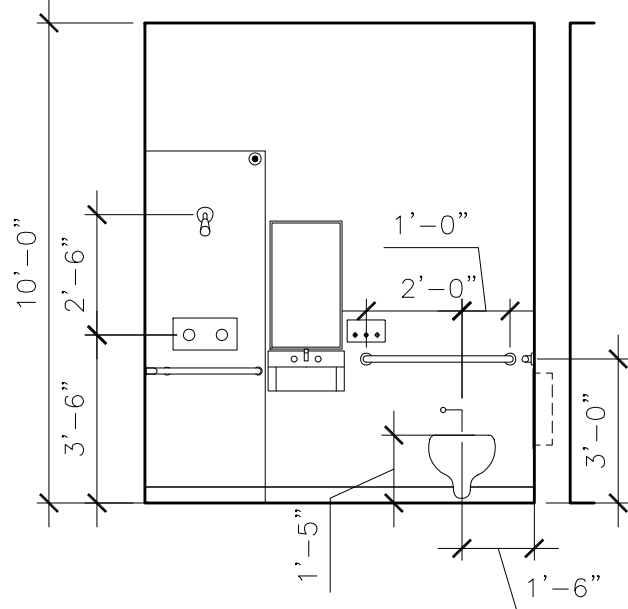
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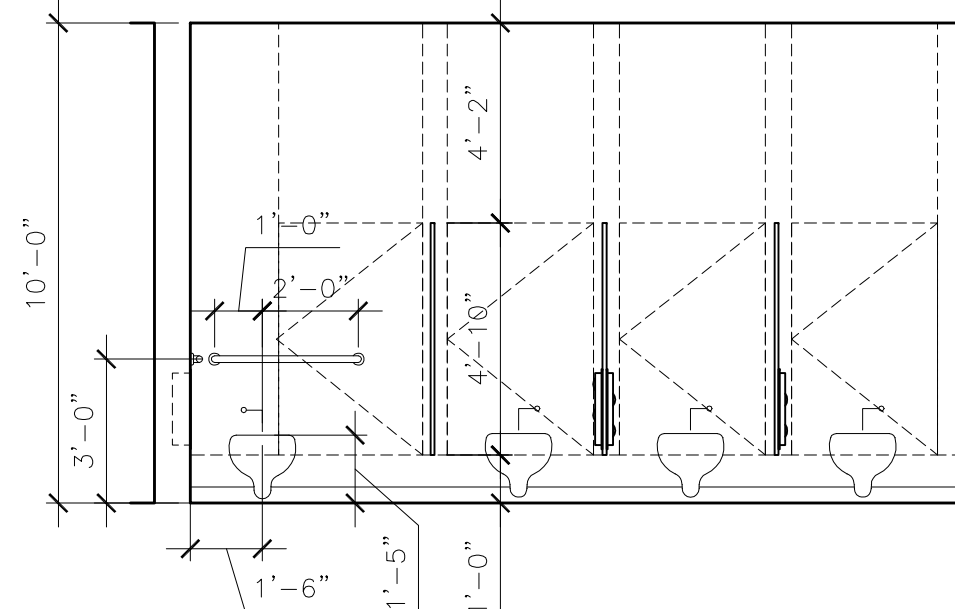
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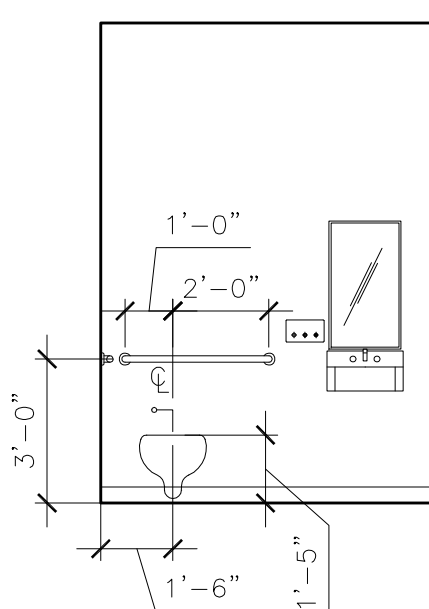
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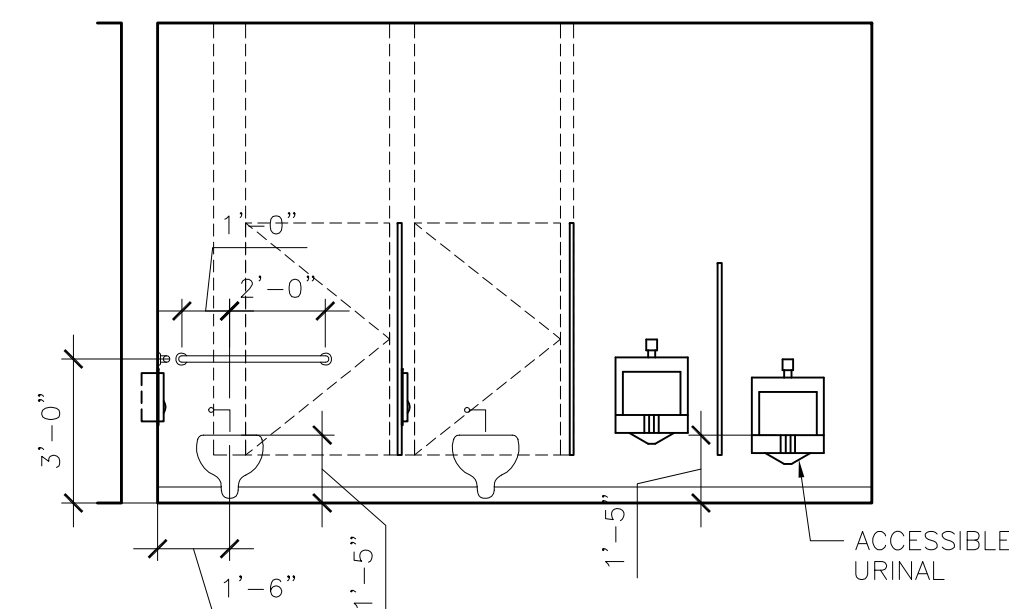
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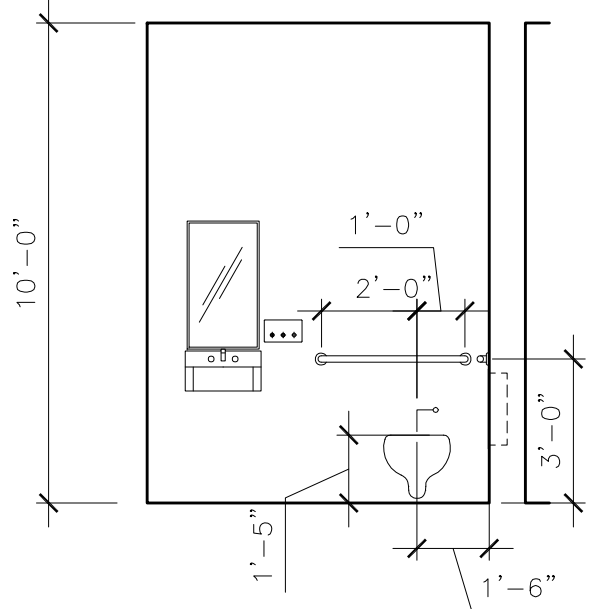
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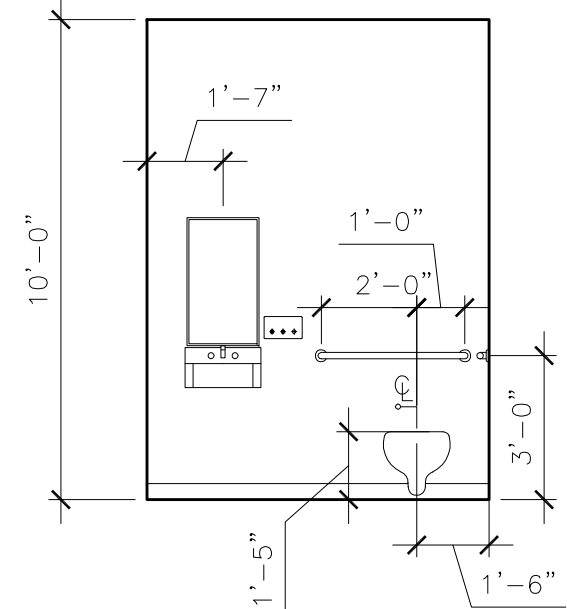
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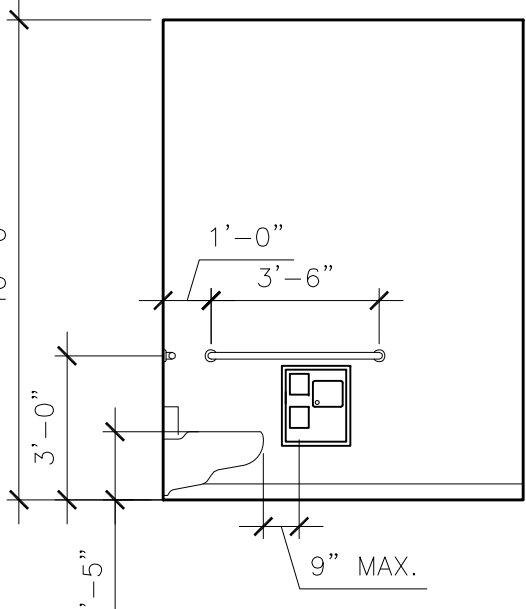
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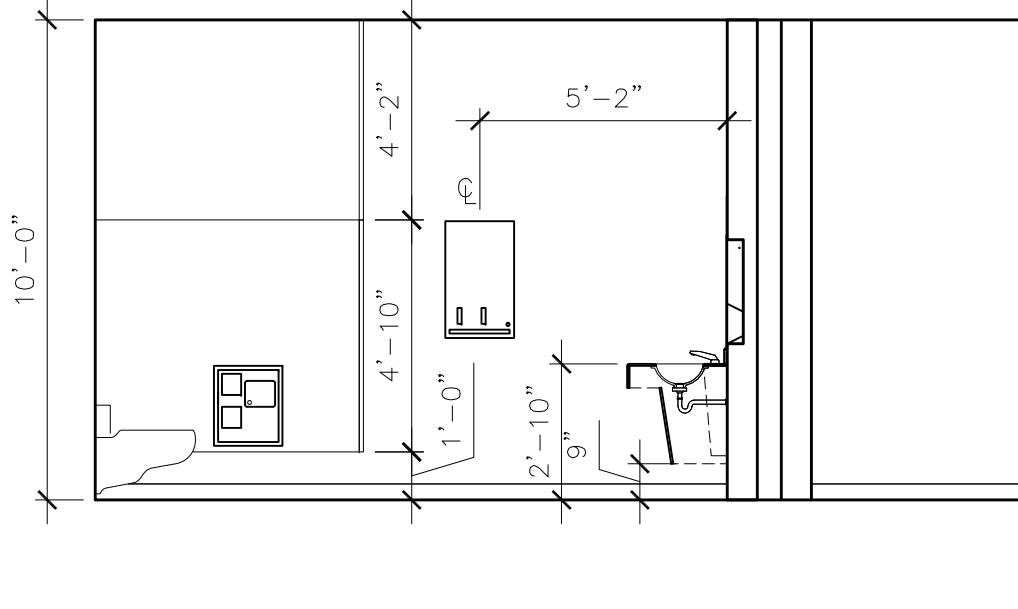
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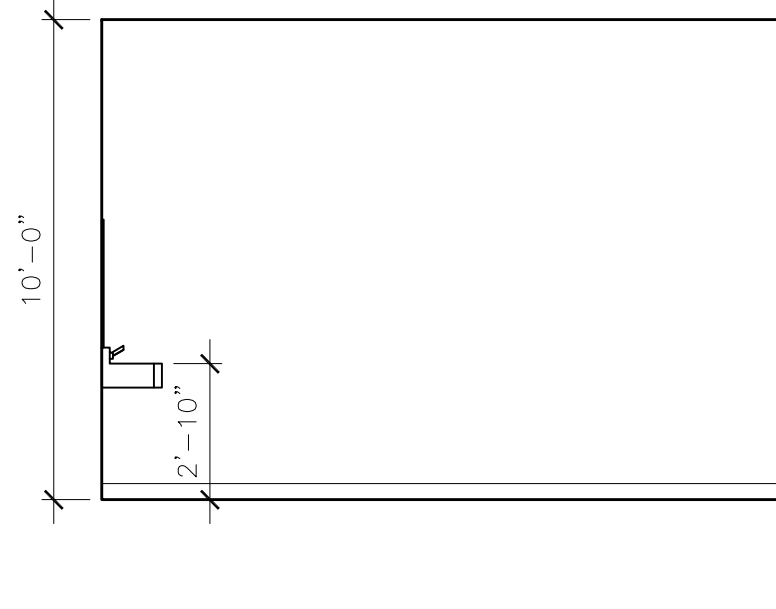
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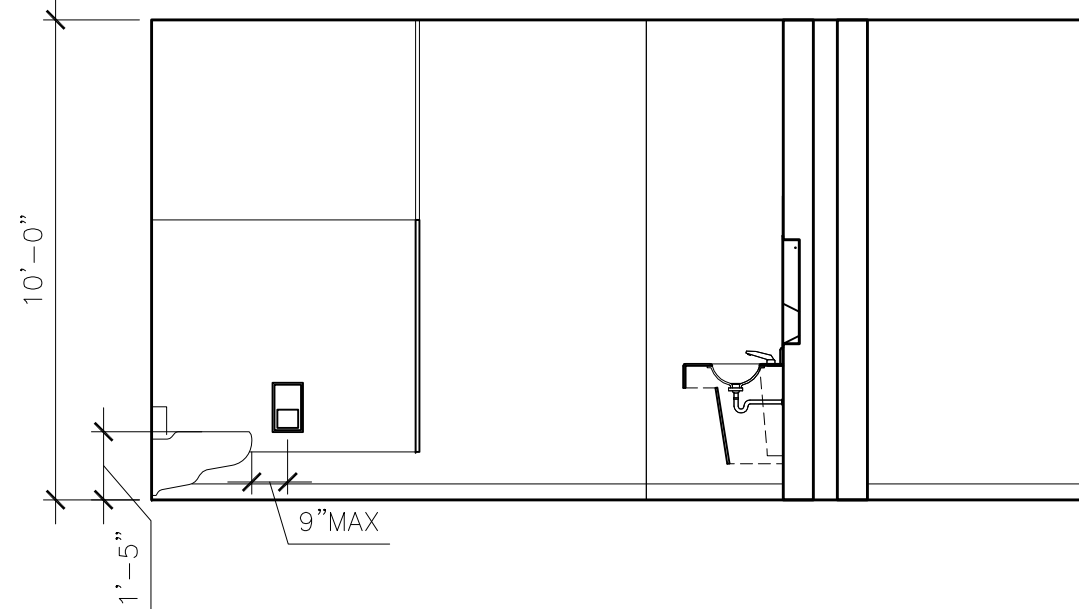
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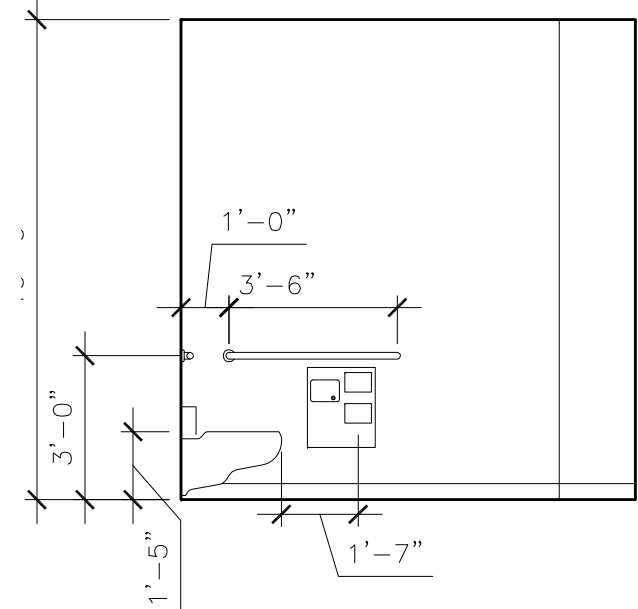
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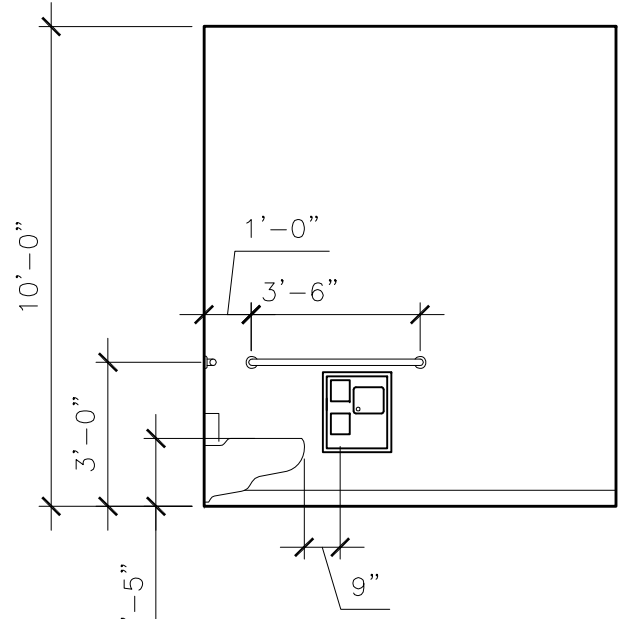
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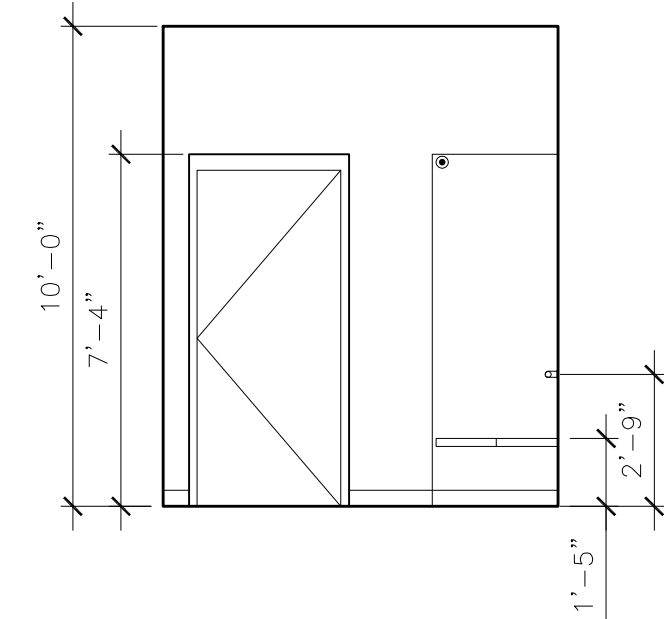
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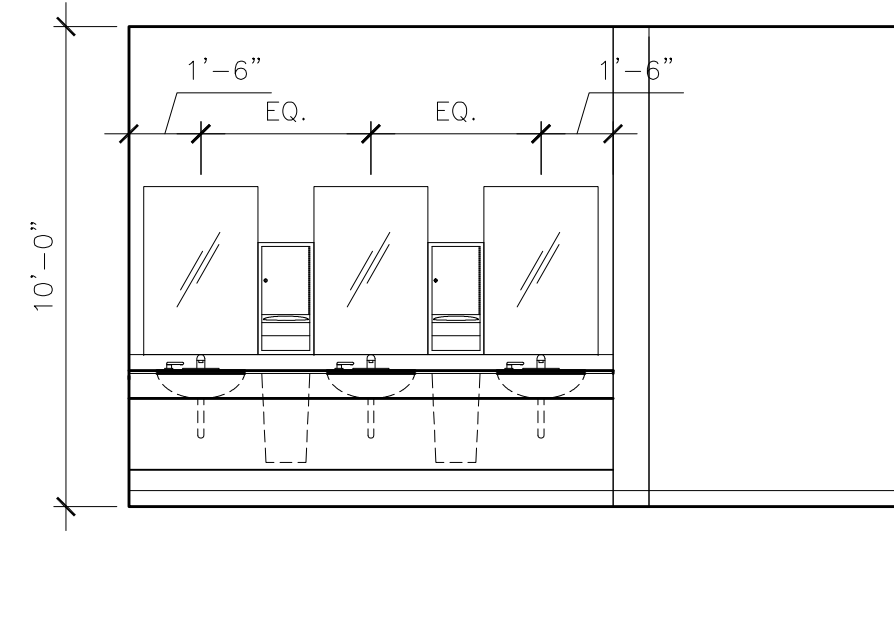
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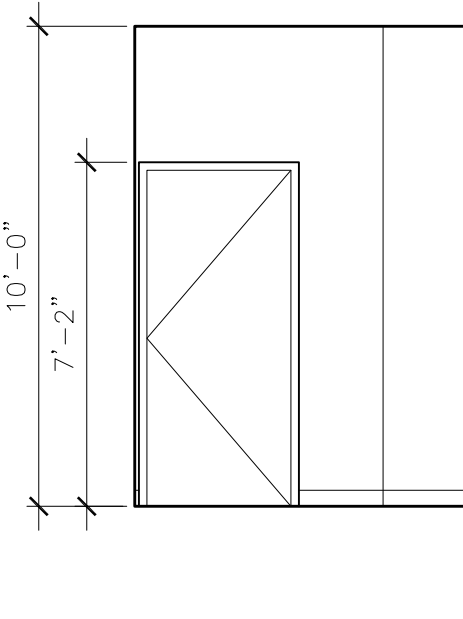
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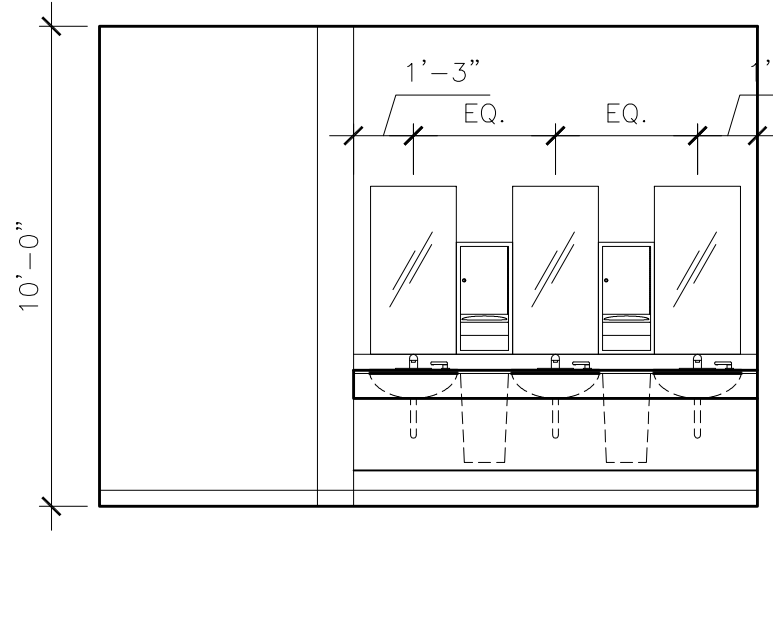
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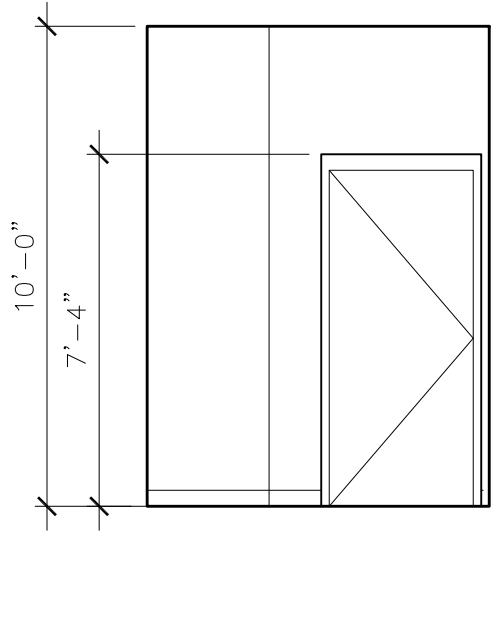
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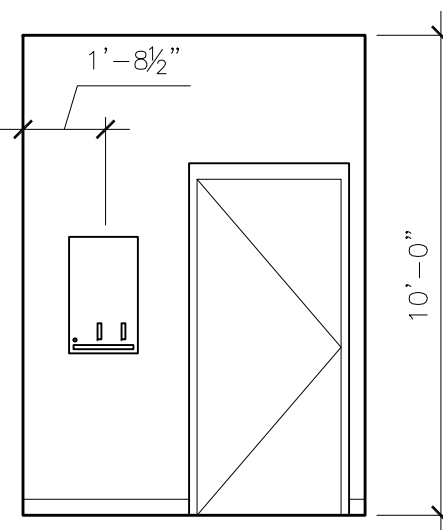
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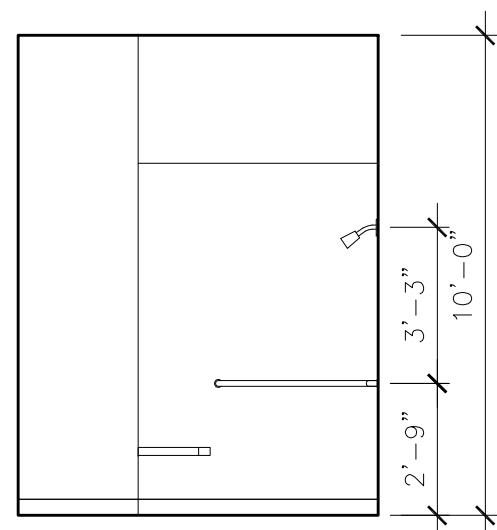
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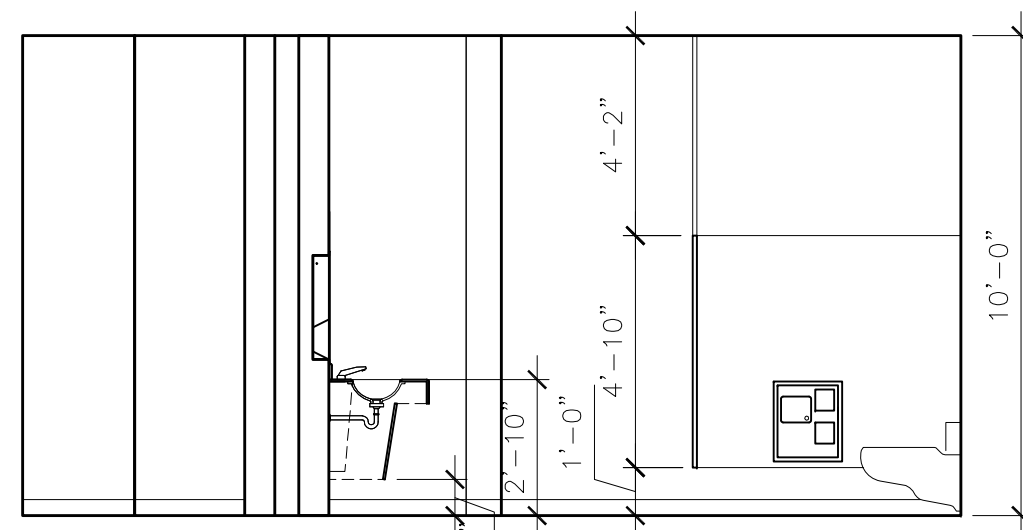
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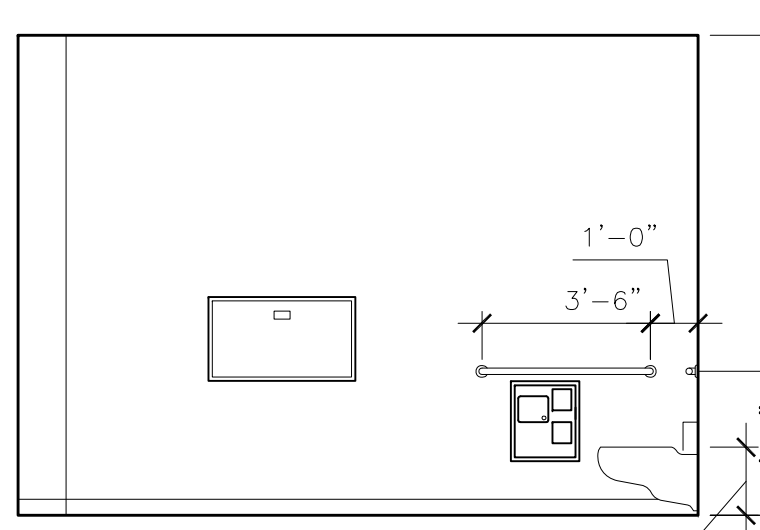
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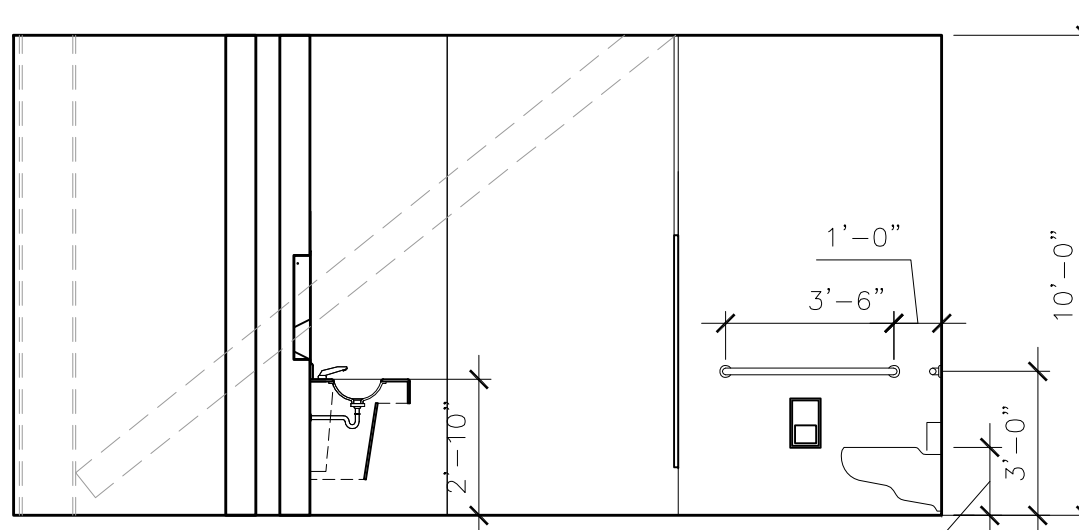
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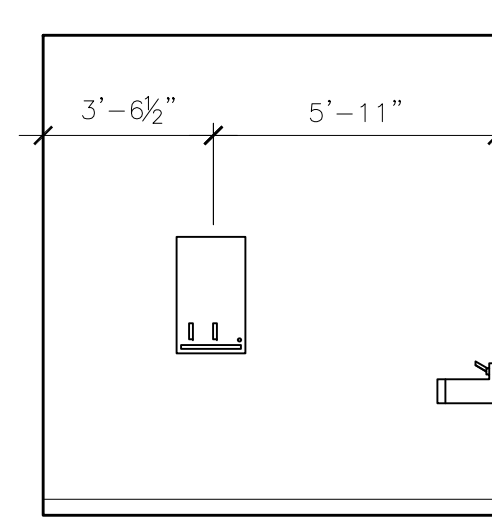
18 RM 139 W ELEV  
1/4" = 1'-0"



14 RM 137 W ELEV  
1/4" = 1'-0"



10 RM 138 W ELEV  
1/4" = 1'-0"



5 RM 129 W ELEV  
1/4" = 1'-0"

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REVIEWED BY: SBS/TC  
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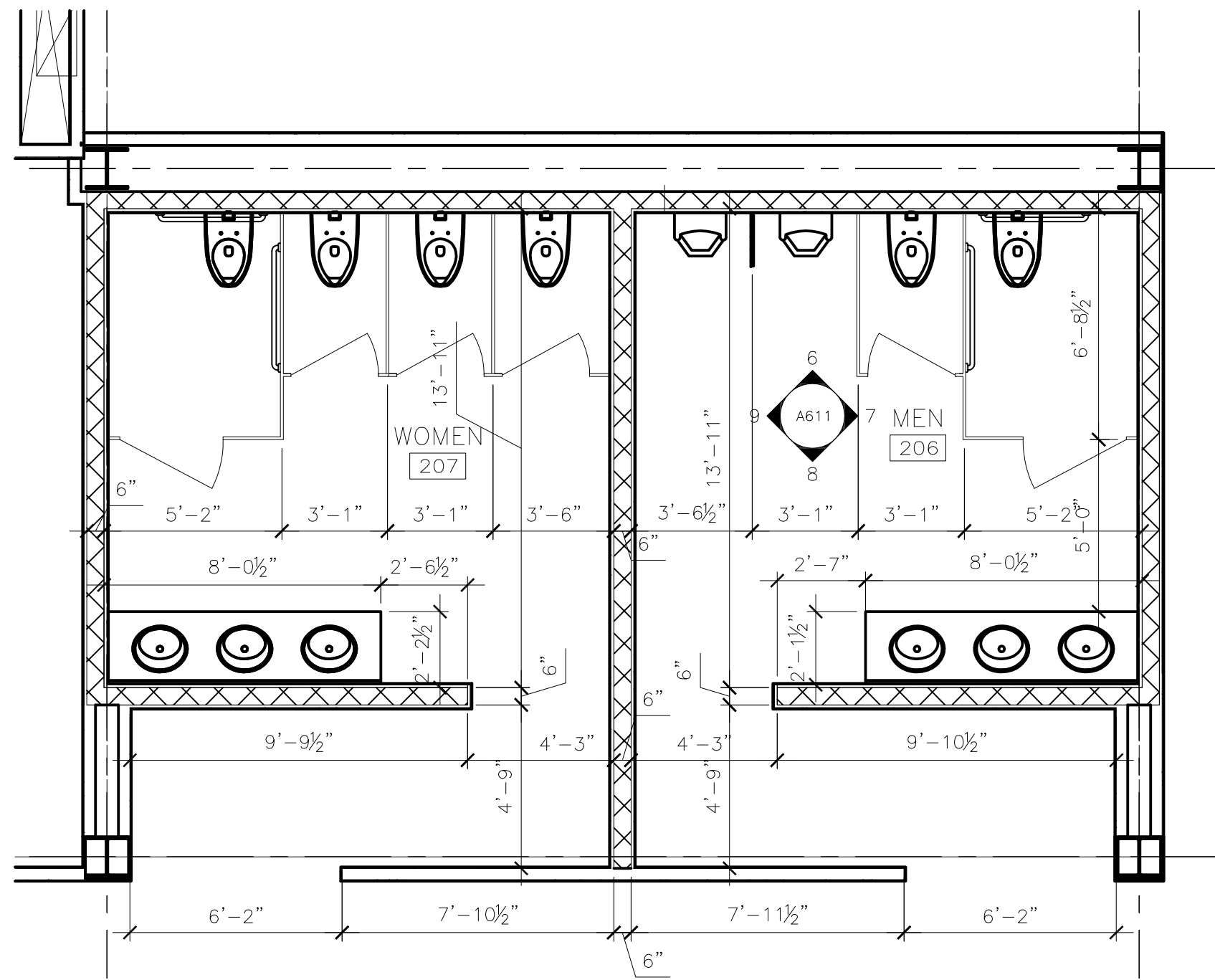
AIP PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**INTERIOR SYSTEMS  
RESTROOMS**

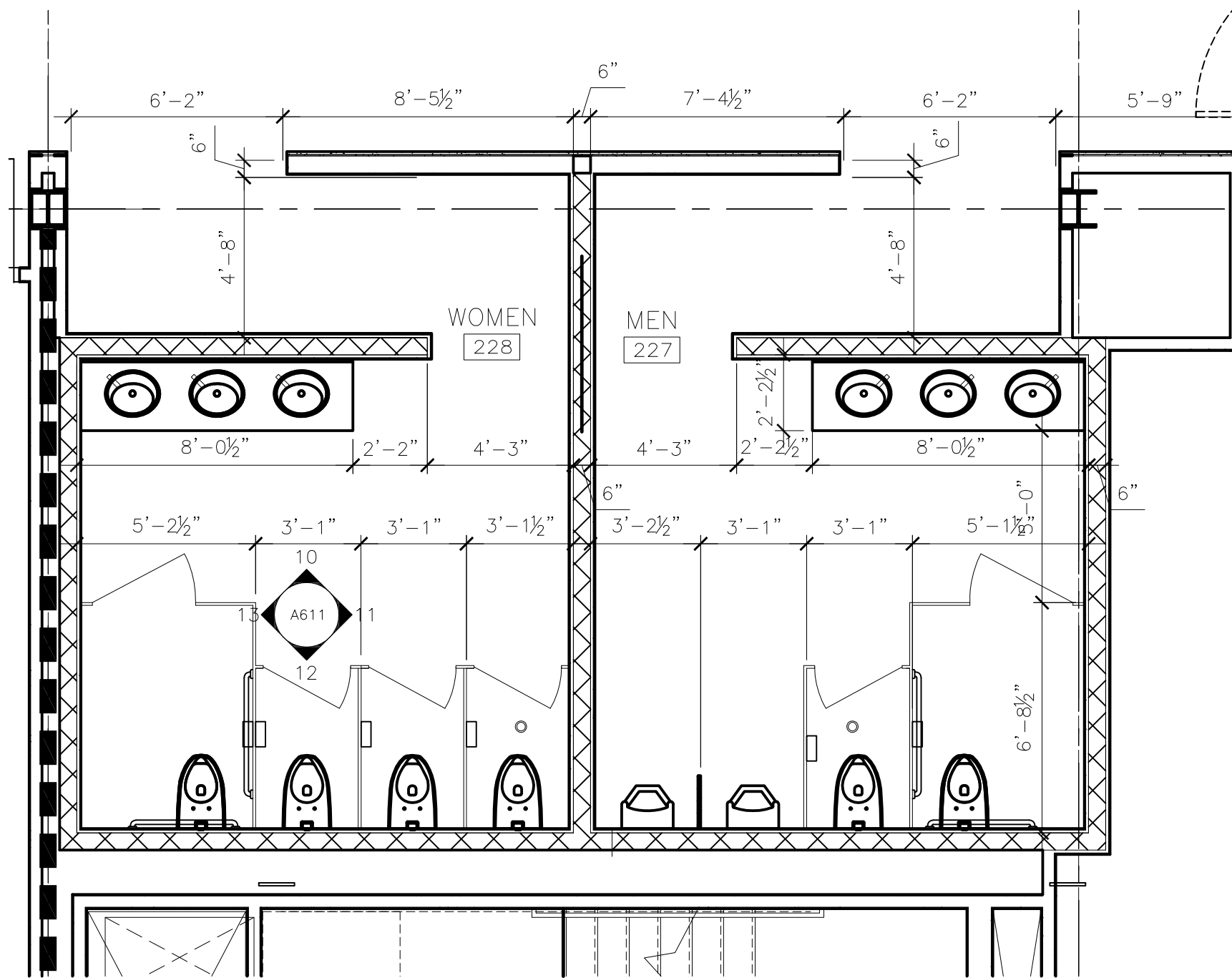
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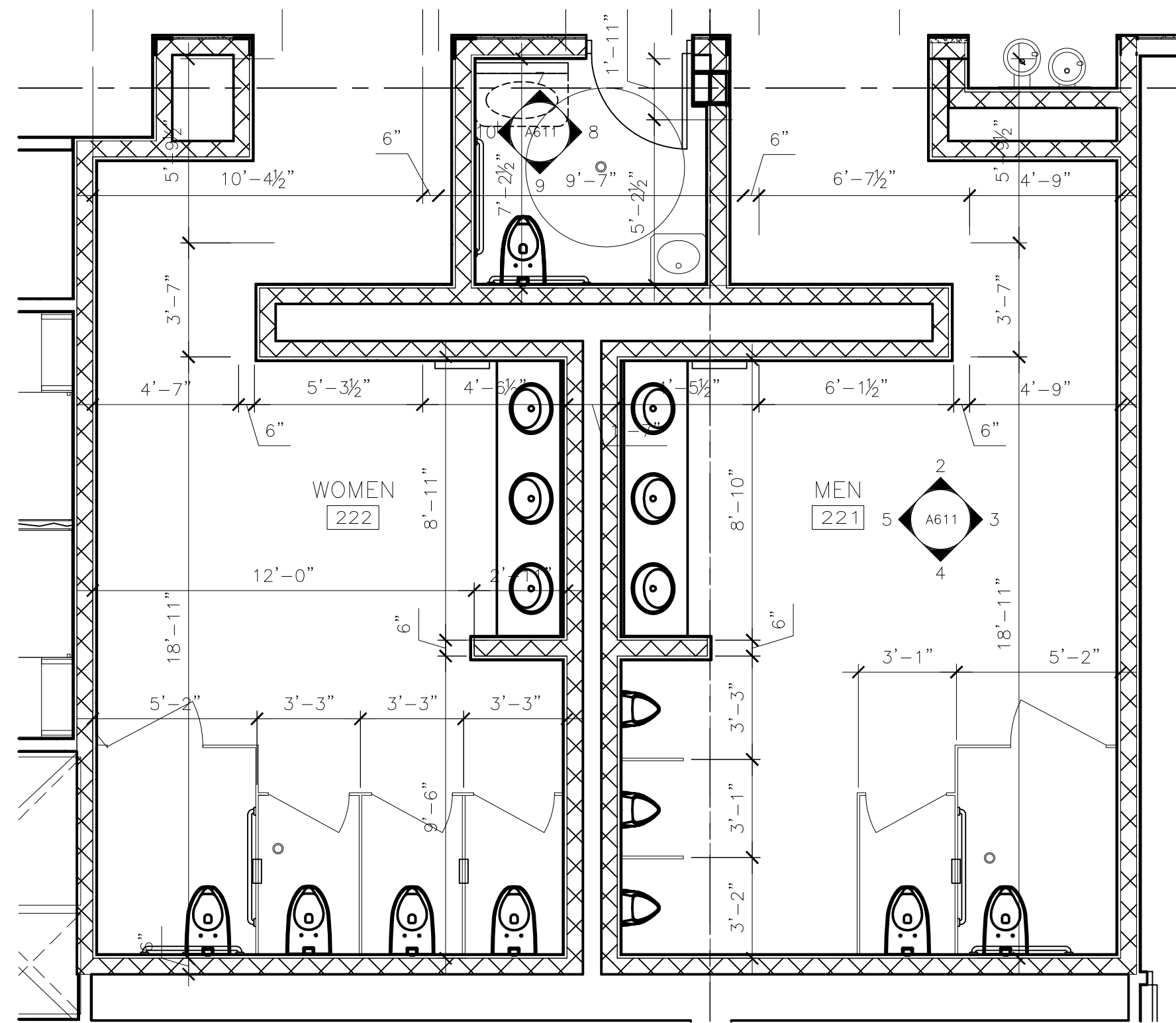
**BUILDING  
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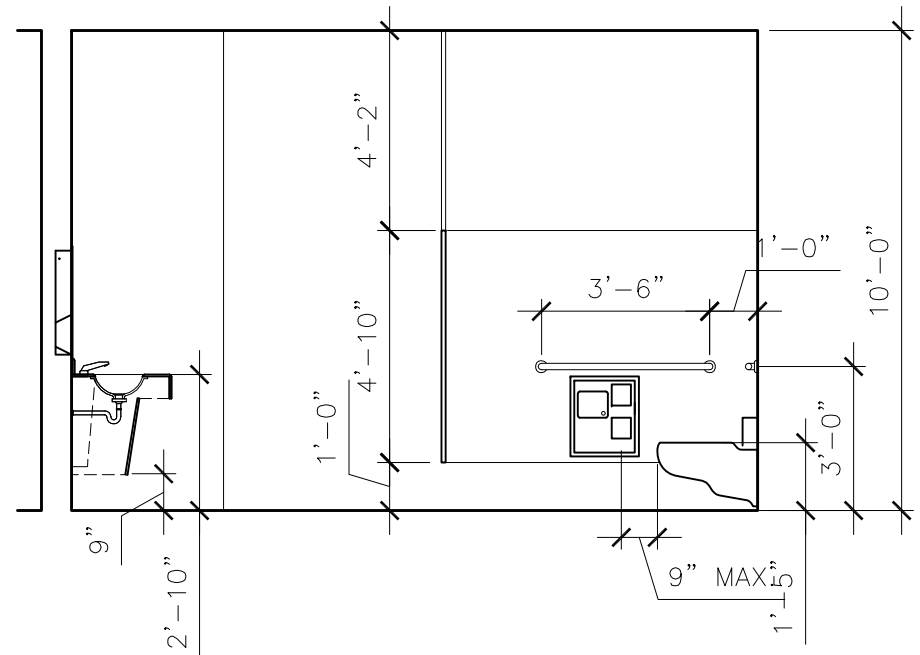
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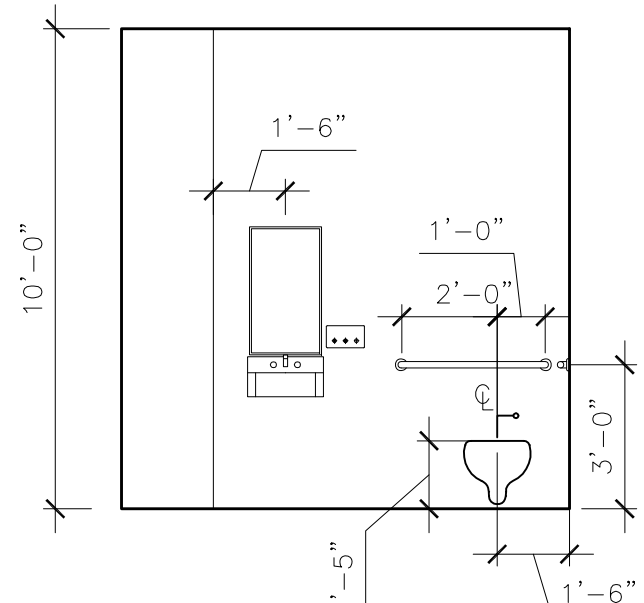
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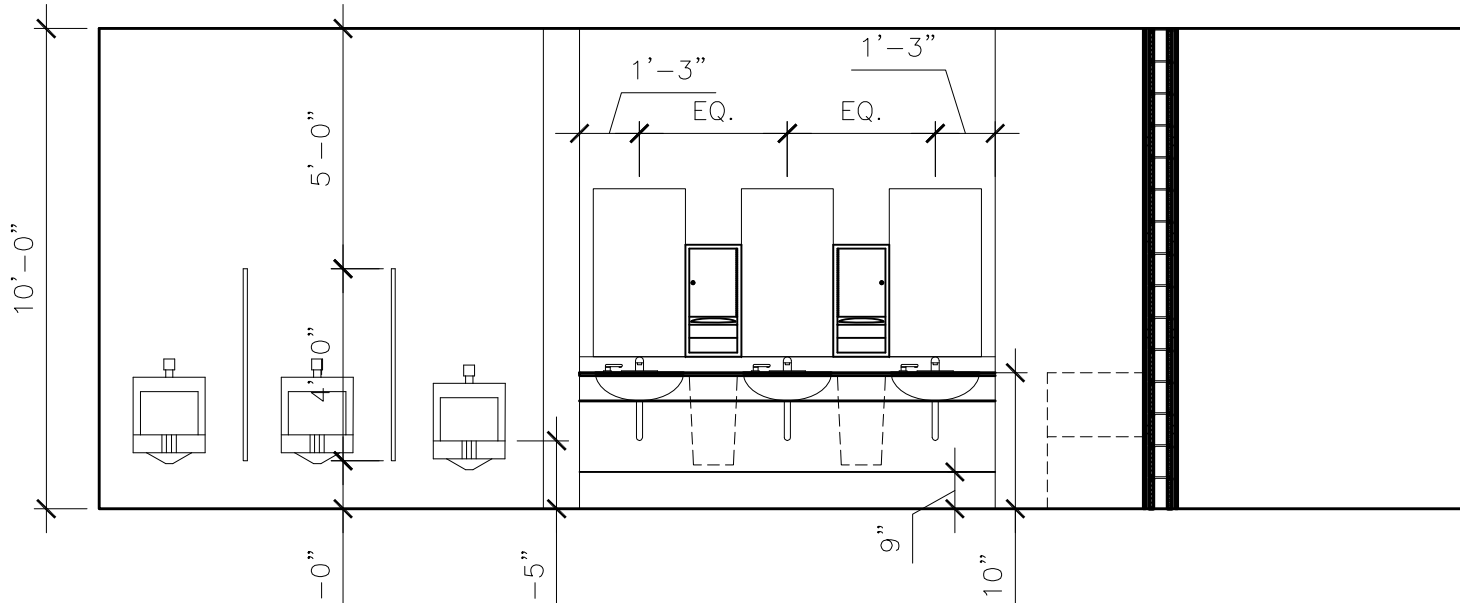
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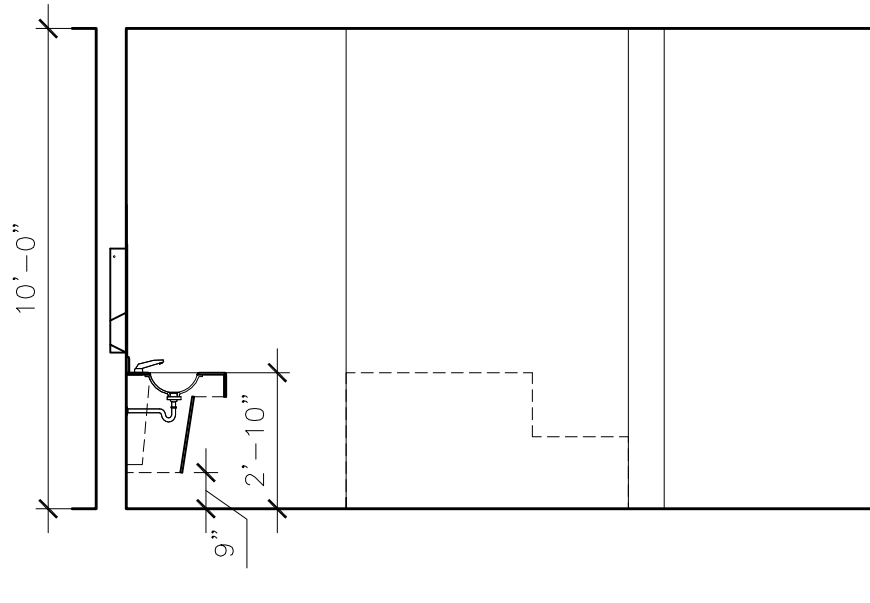
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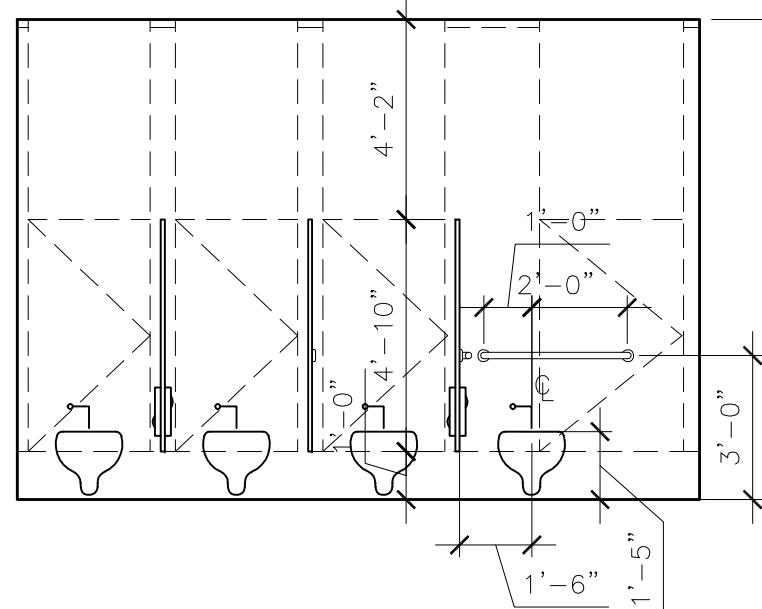
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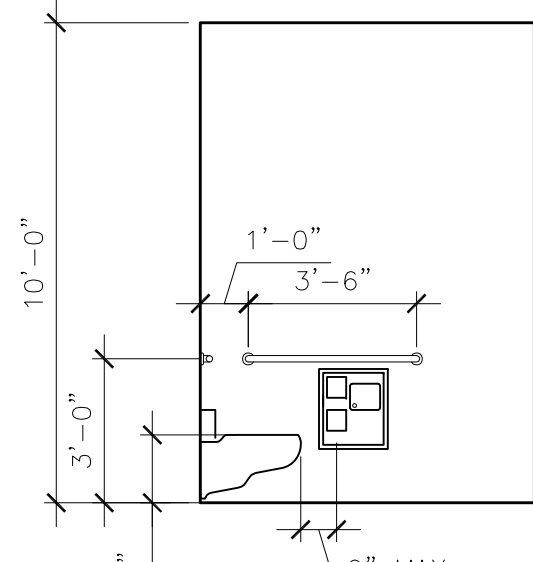
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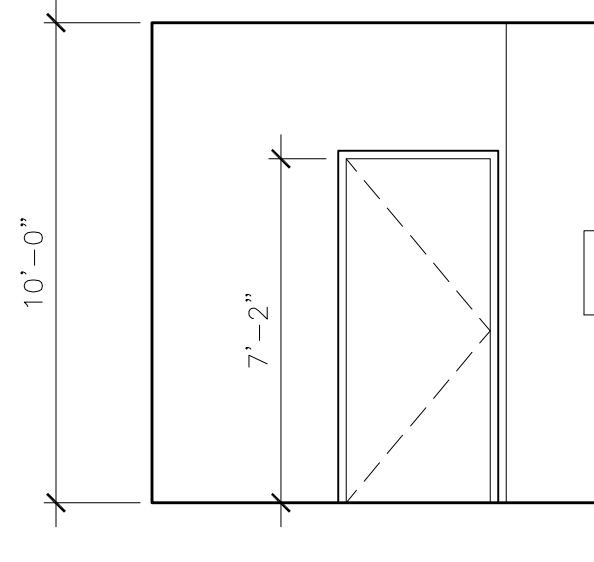
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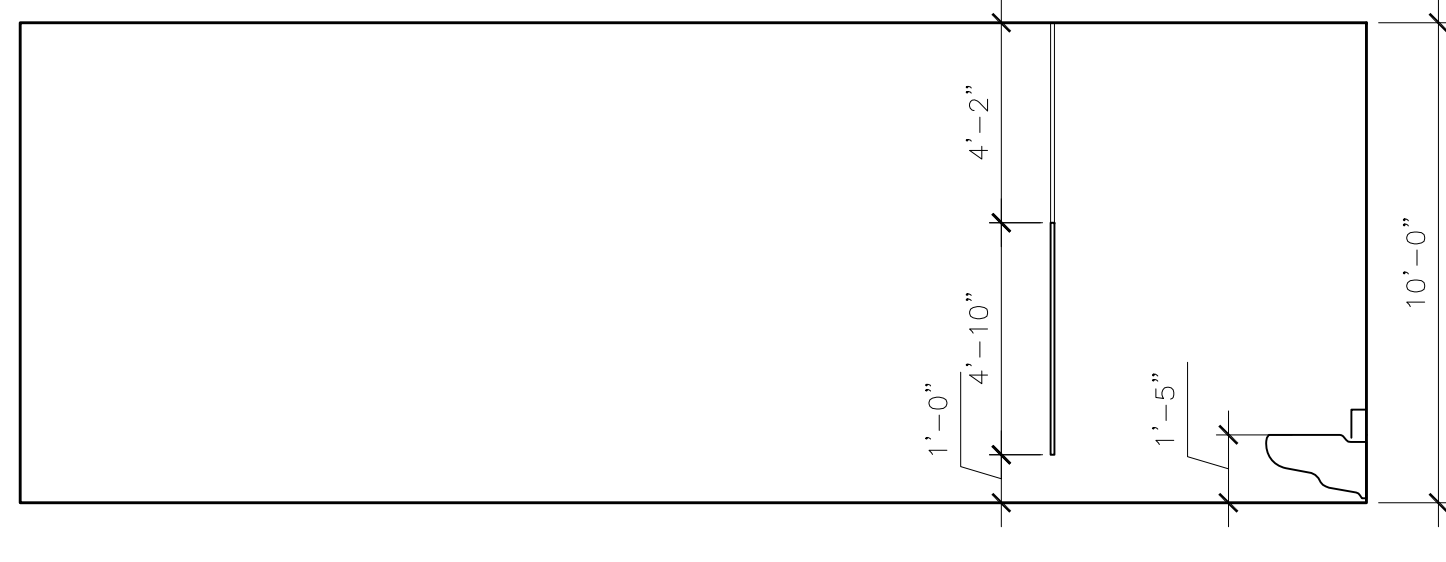
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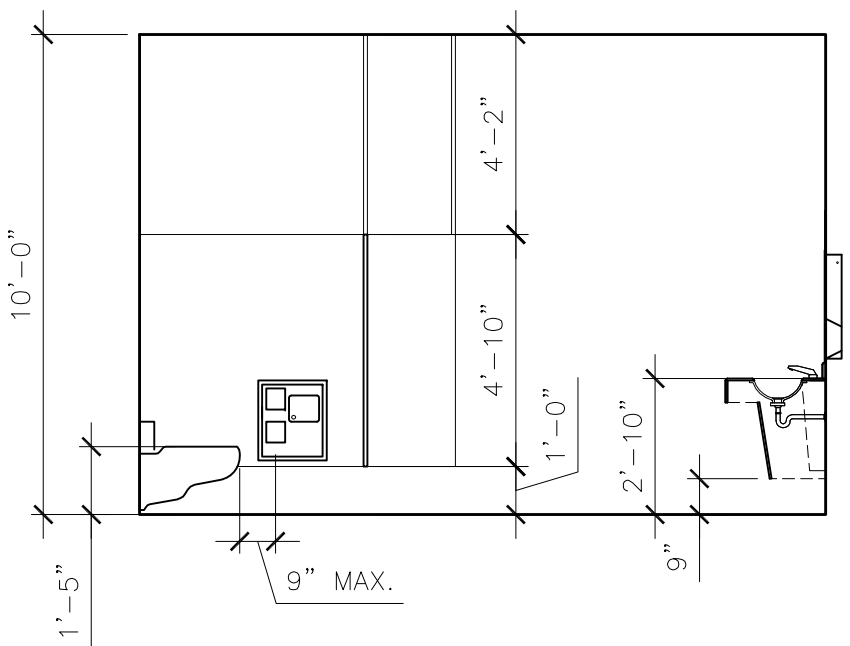
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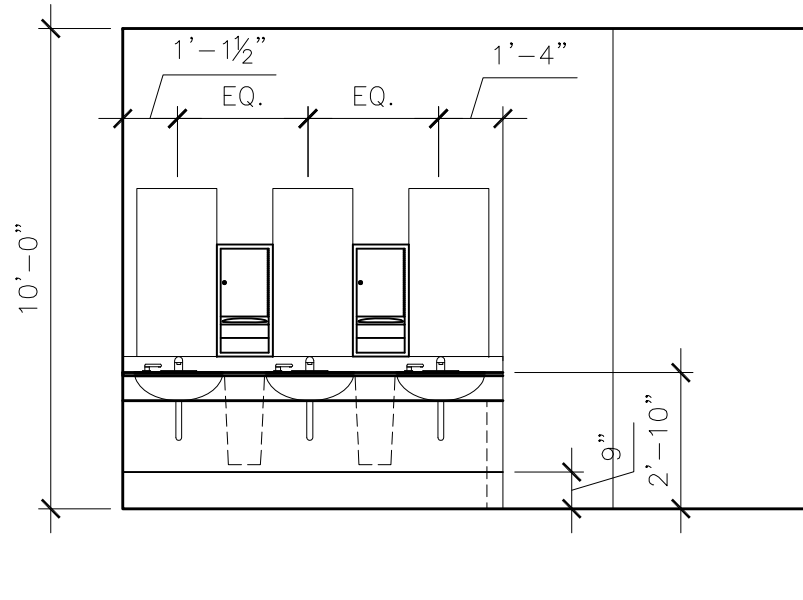
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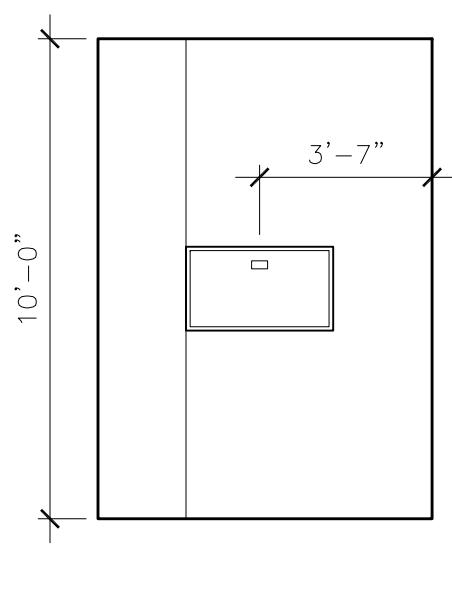
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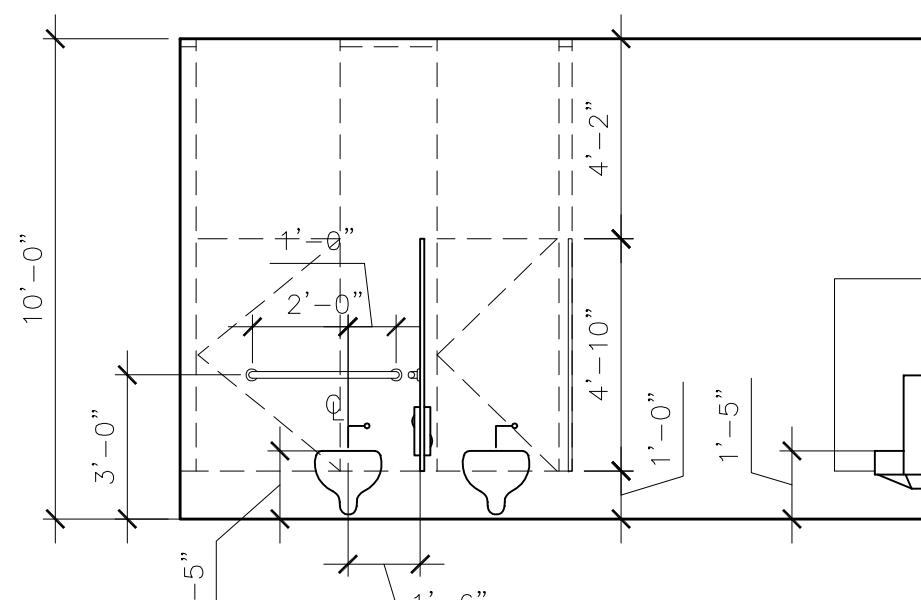
14 ELEVATION  
1/4" = 1'-0"



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



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



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

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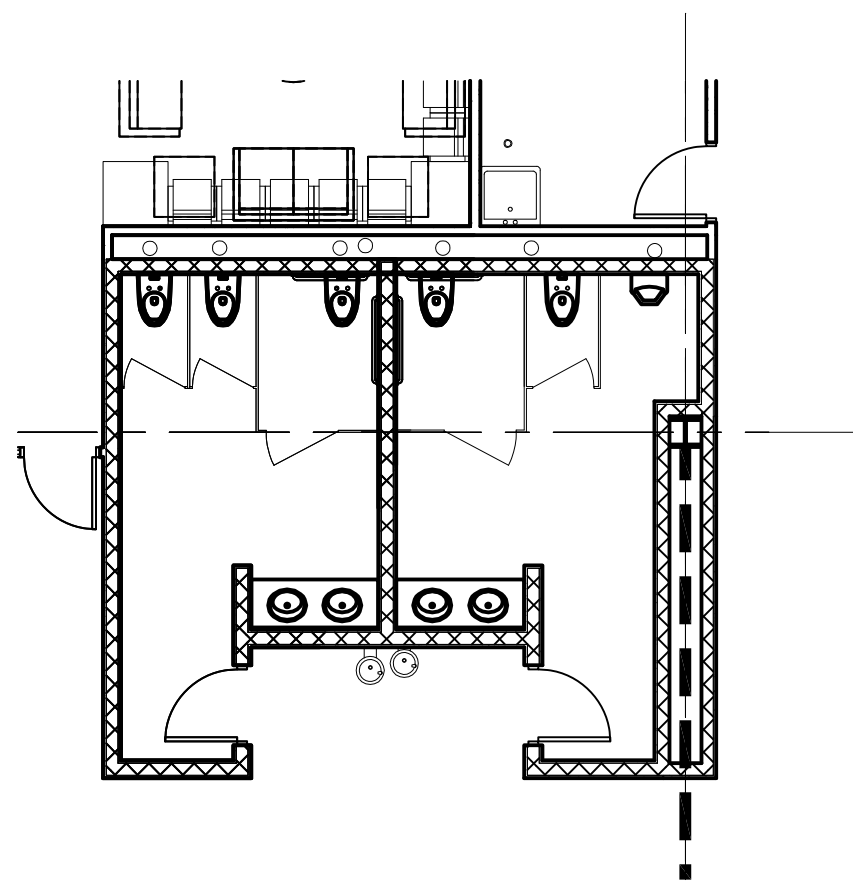
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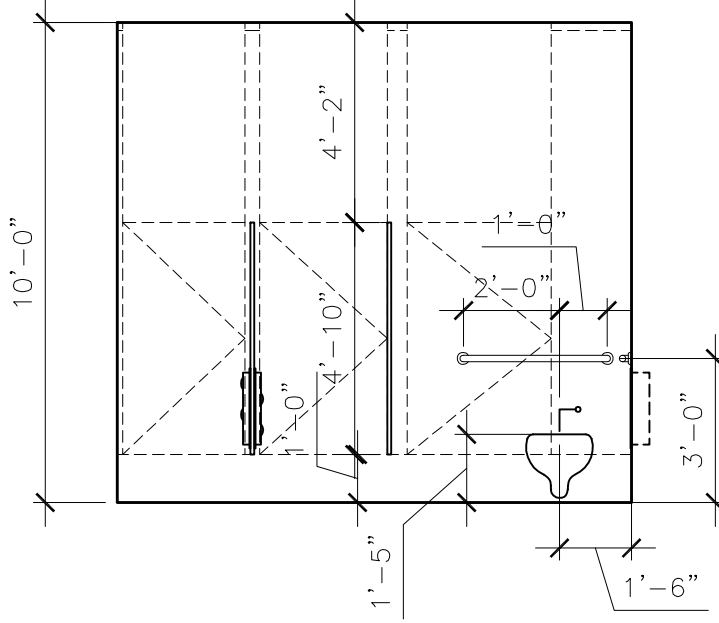
**SHEET TITLE**  
**INTERIOR SYSTEMS  
RESTROOMS**

**SHEET NUMBER**

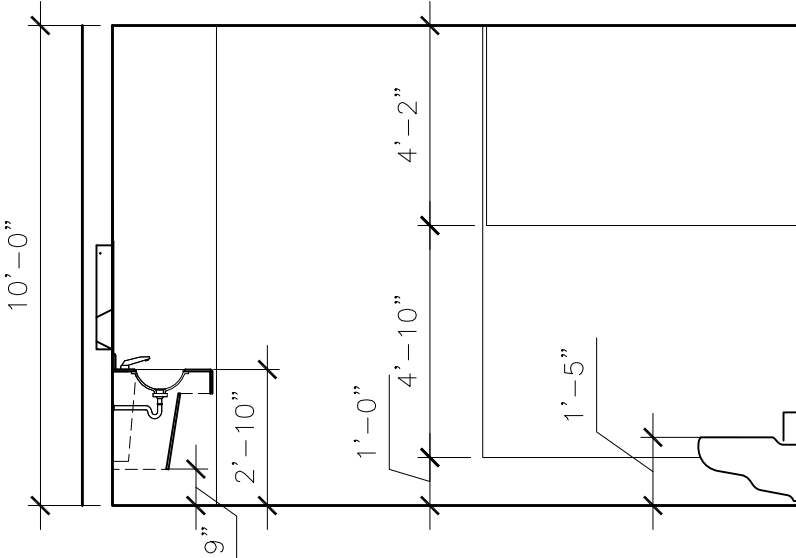
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**BUILDING  
PERMIT**



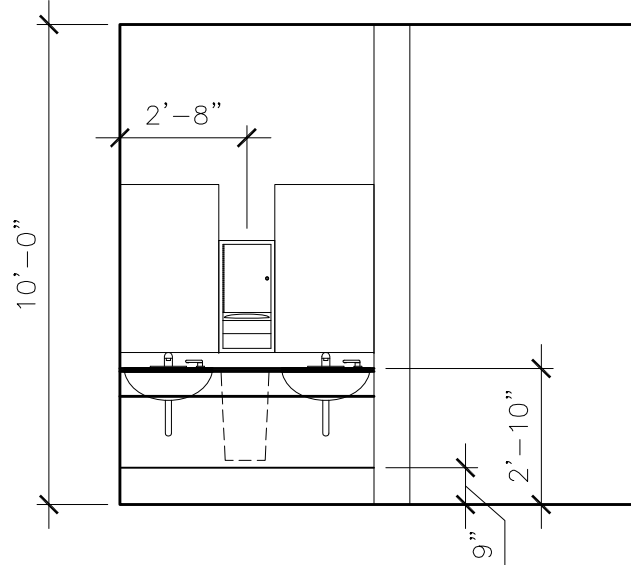
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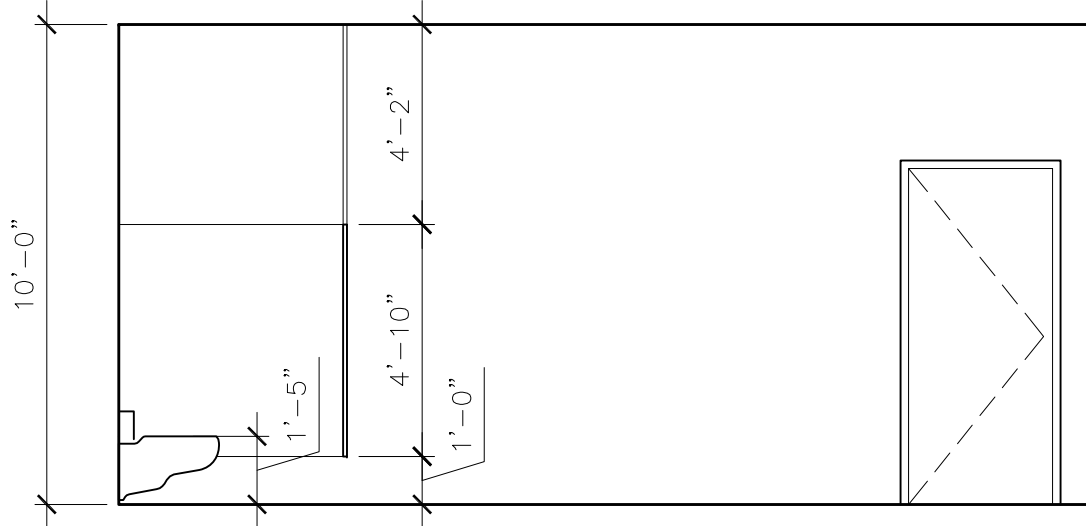
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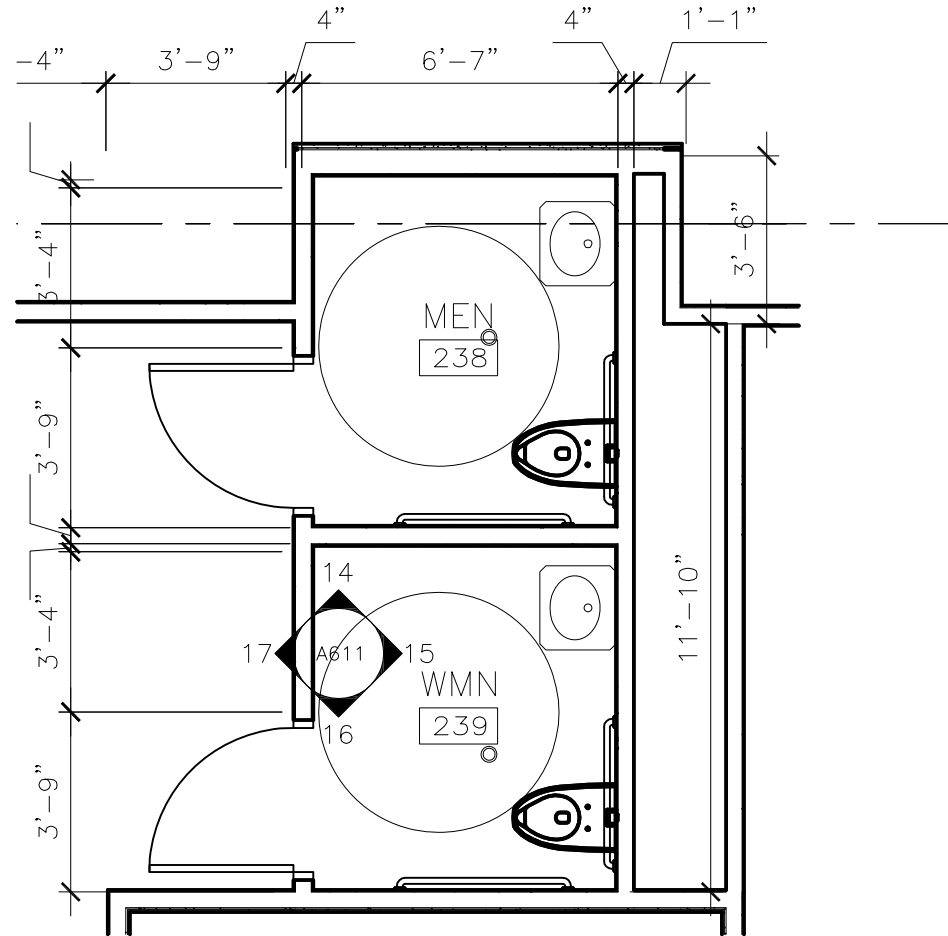
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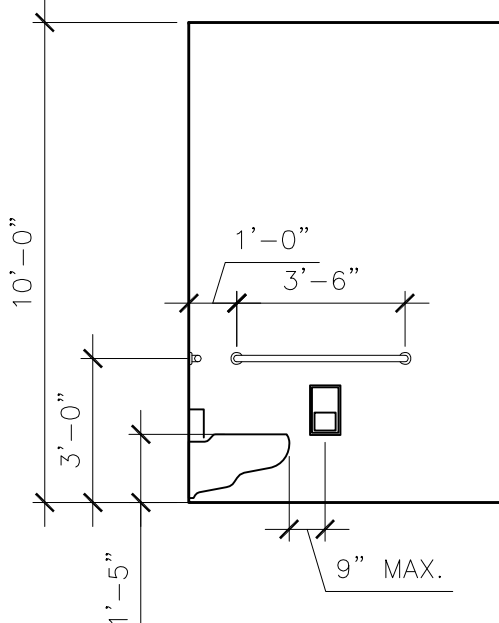
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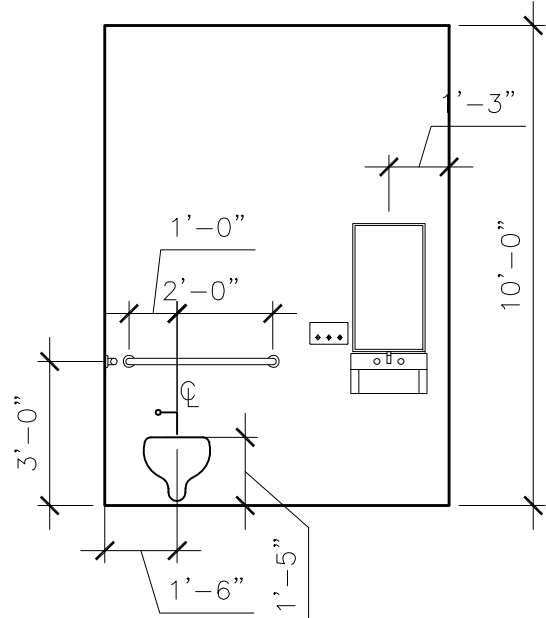
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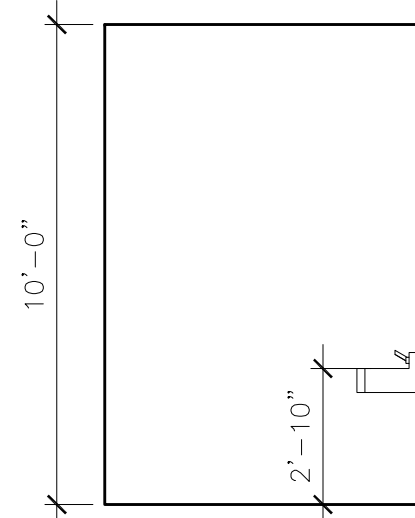
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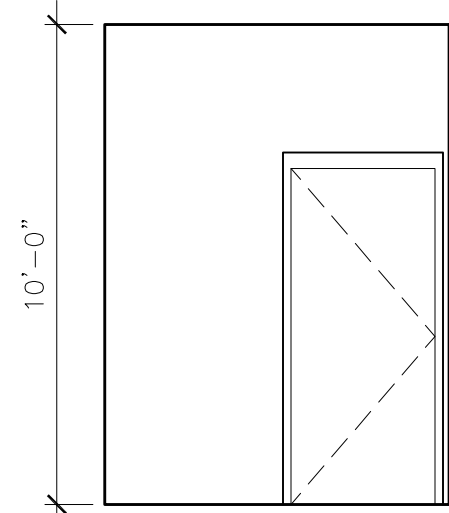
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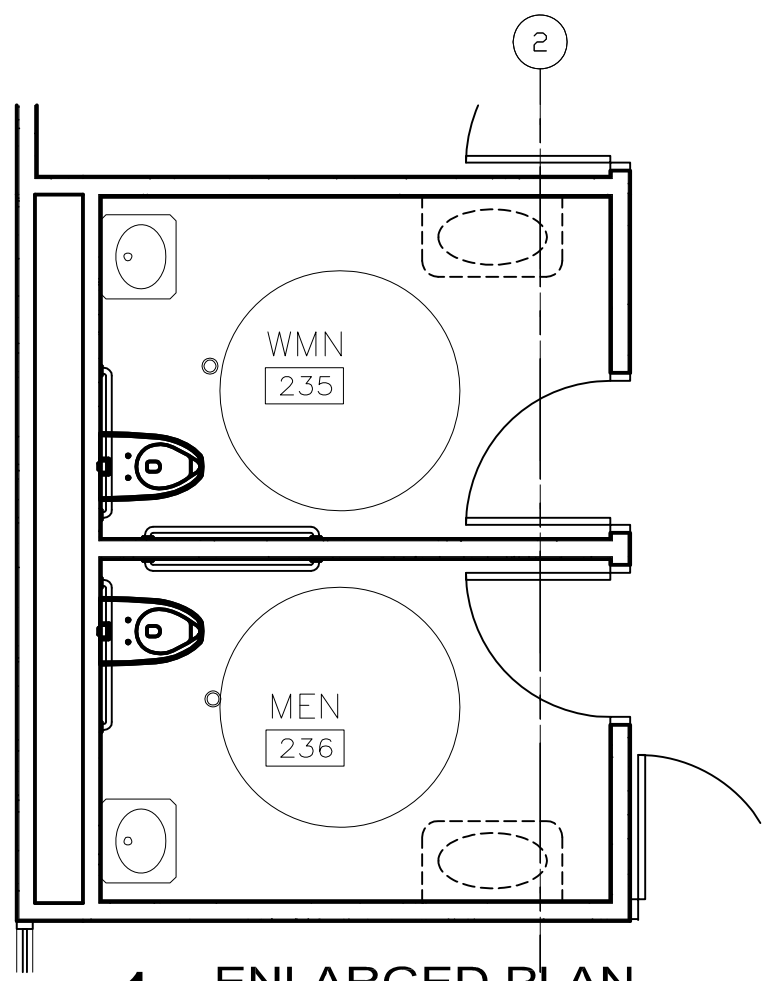
8 ELEVATION  
1/4" = 1'-0"



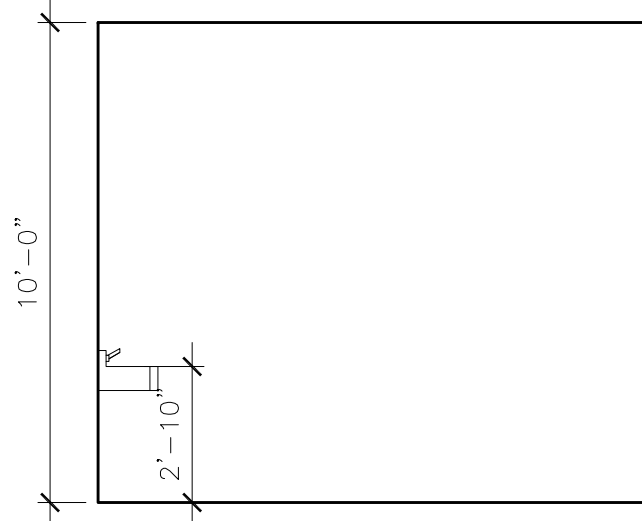
9 ELEVATION  
1/4" = 1'-0"



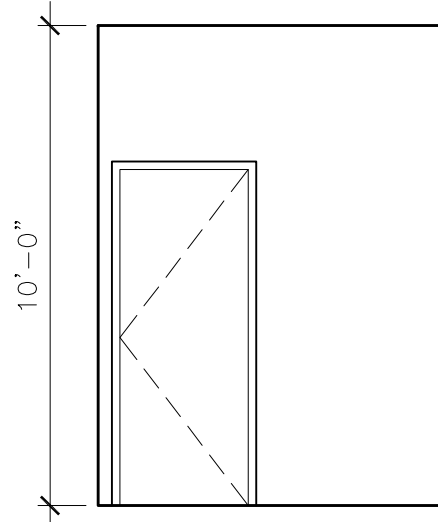
10 ELEVATION  
1/4" = 1'-0"



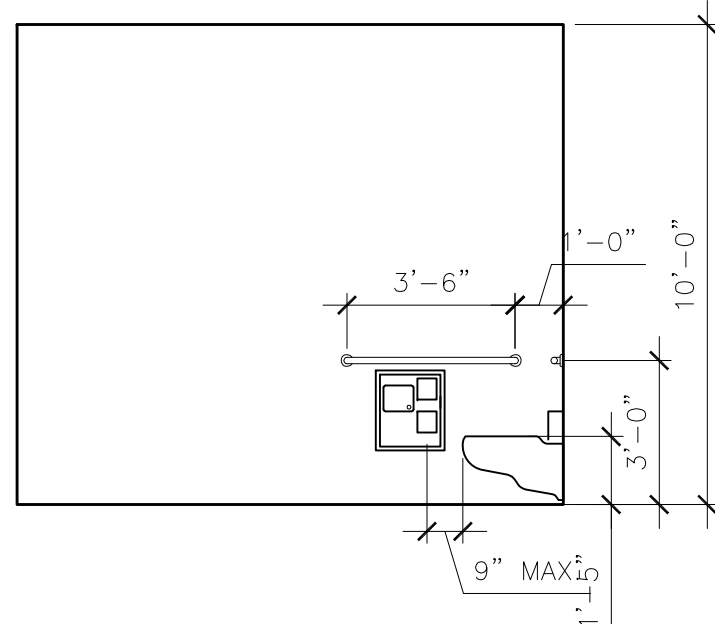
1 ENLARGED PLAN  
1/4" = 1'-0"



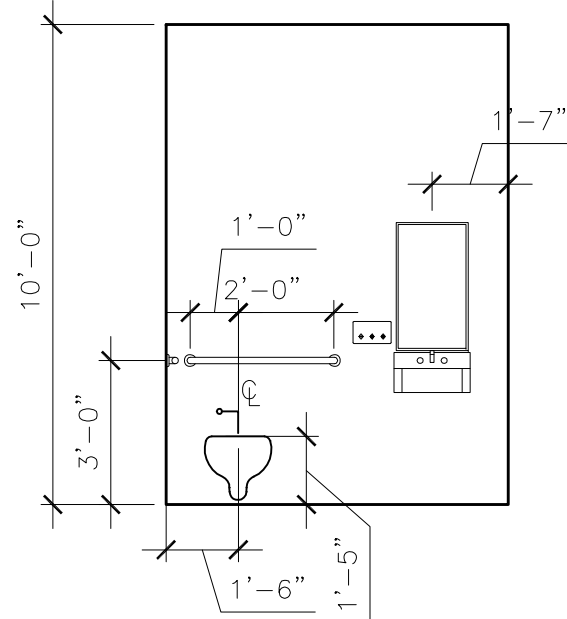
2 ELEVATION  
1/4" = 1'-0"



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



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



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

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

ARCHITECTURAL CERTIFICATION  
I hereby certify that the architectural plans,  
specifications or report was prepared by me  
or under my direct supervision and that I am  
a duly licensed Professional Architect under  
the laws of the State of Minnesota.

Print Name: Mark Ip

Signature: 

Date: 06-03-10 Reg. No.: 46001

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MI/MK  
DESIGNED BY: SBS/TC

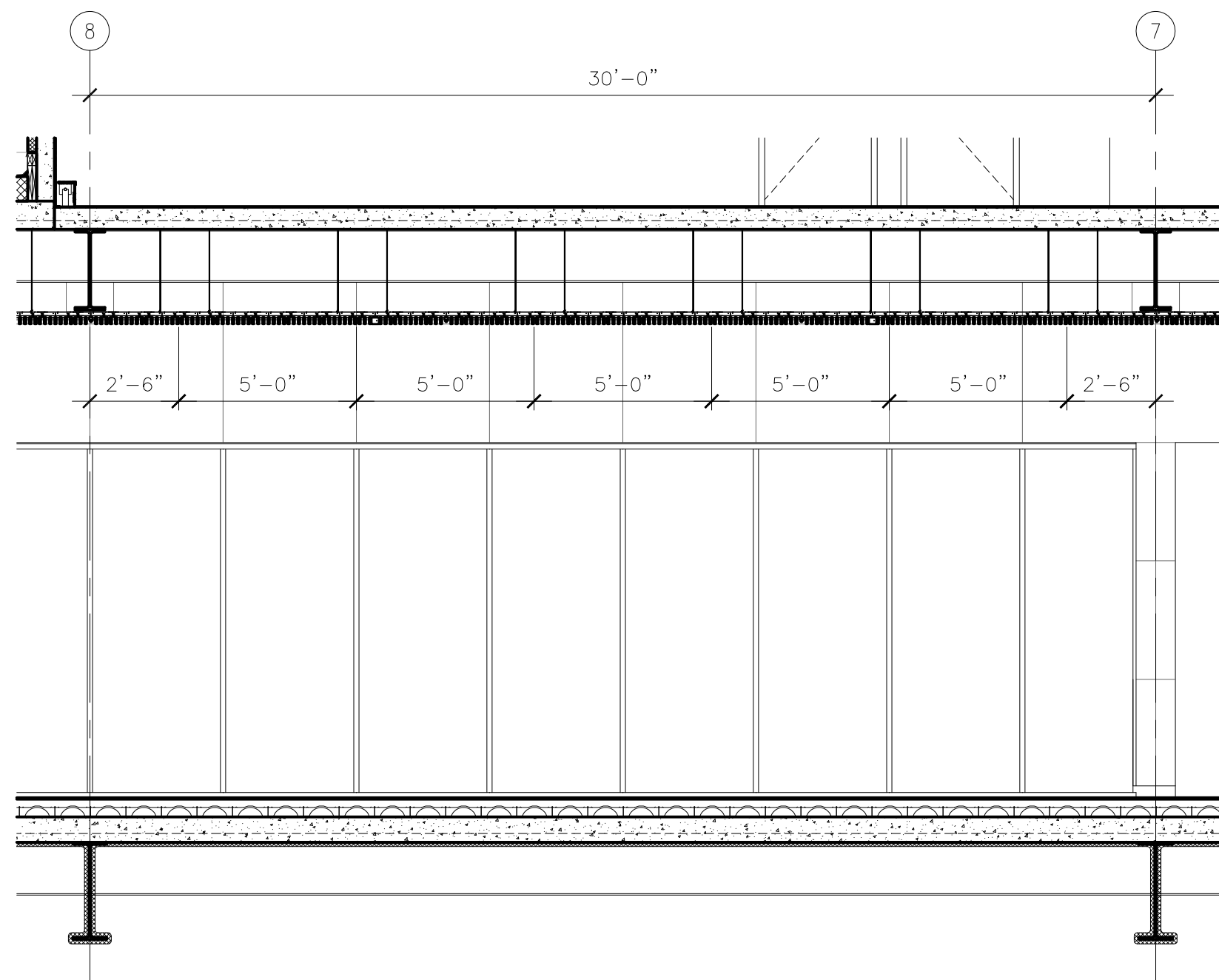
A&P PROJECT NUMBER  
213-1882-091  
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SHEET TITLE  
INTERIOR SYSTEMS  
RESTROOMS

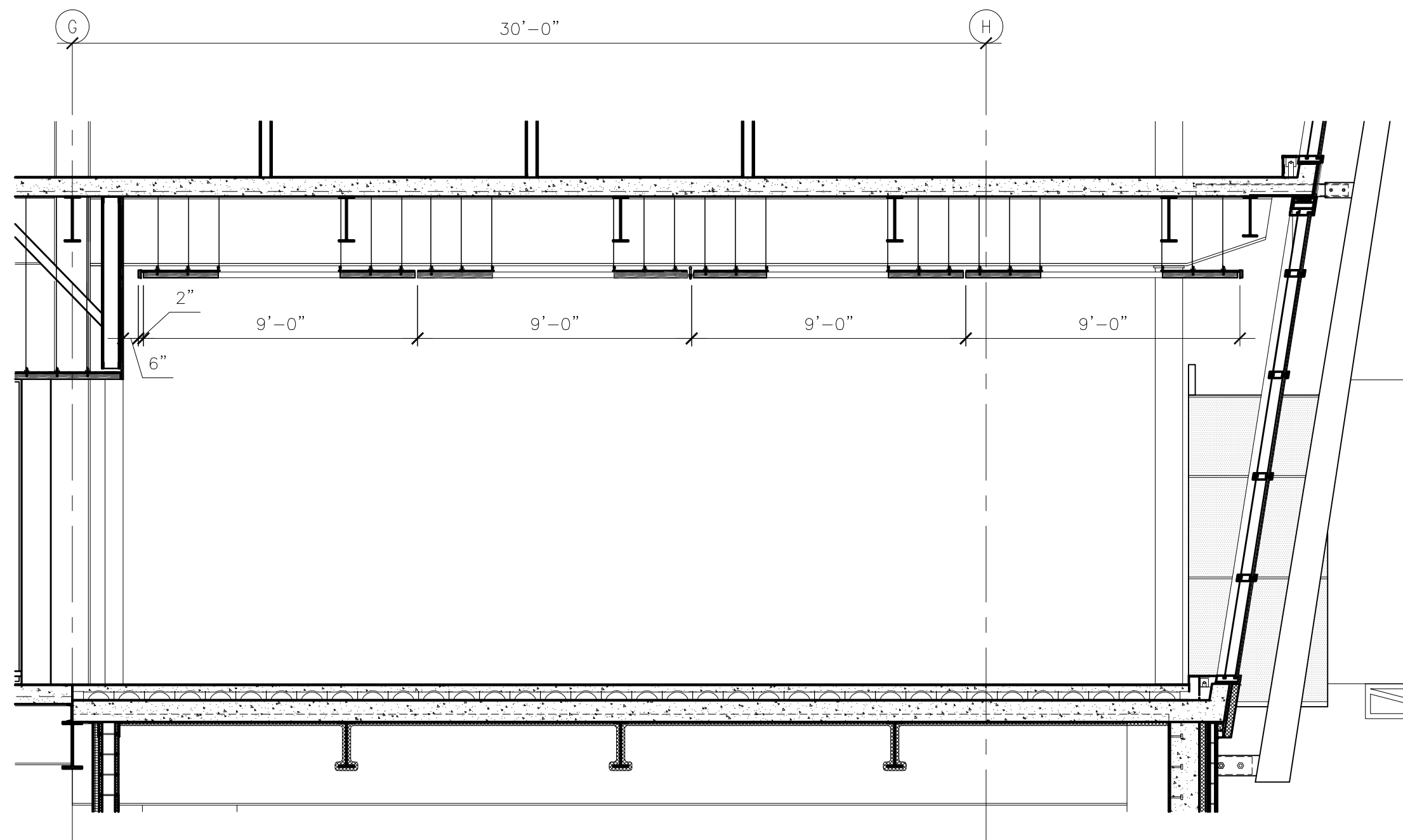
SHEET NUMBER

A612  
BUILDING  
PERMIT

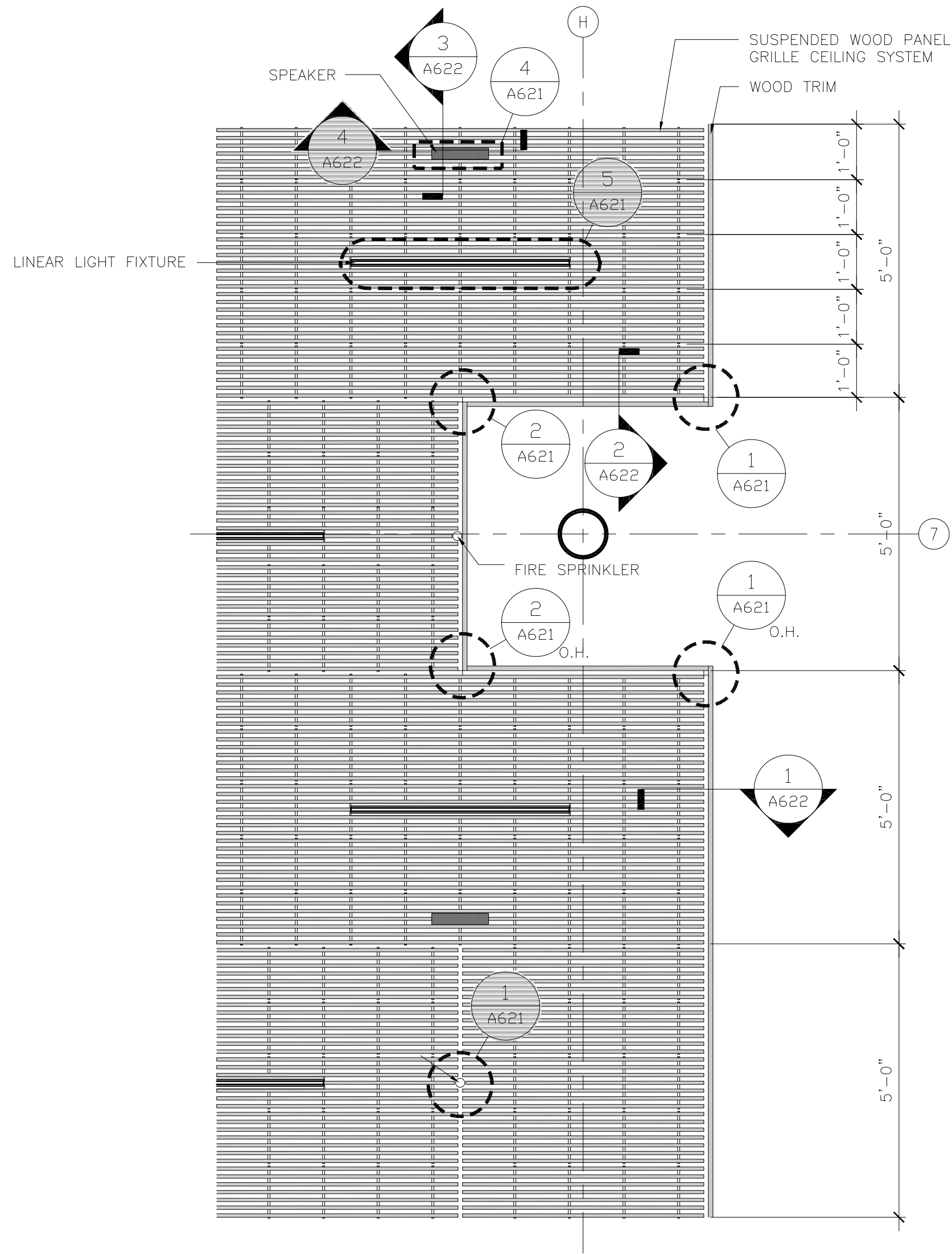




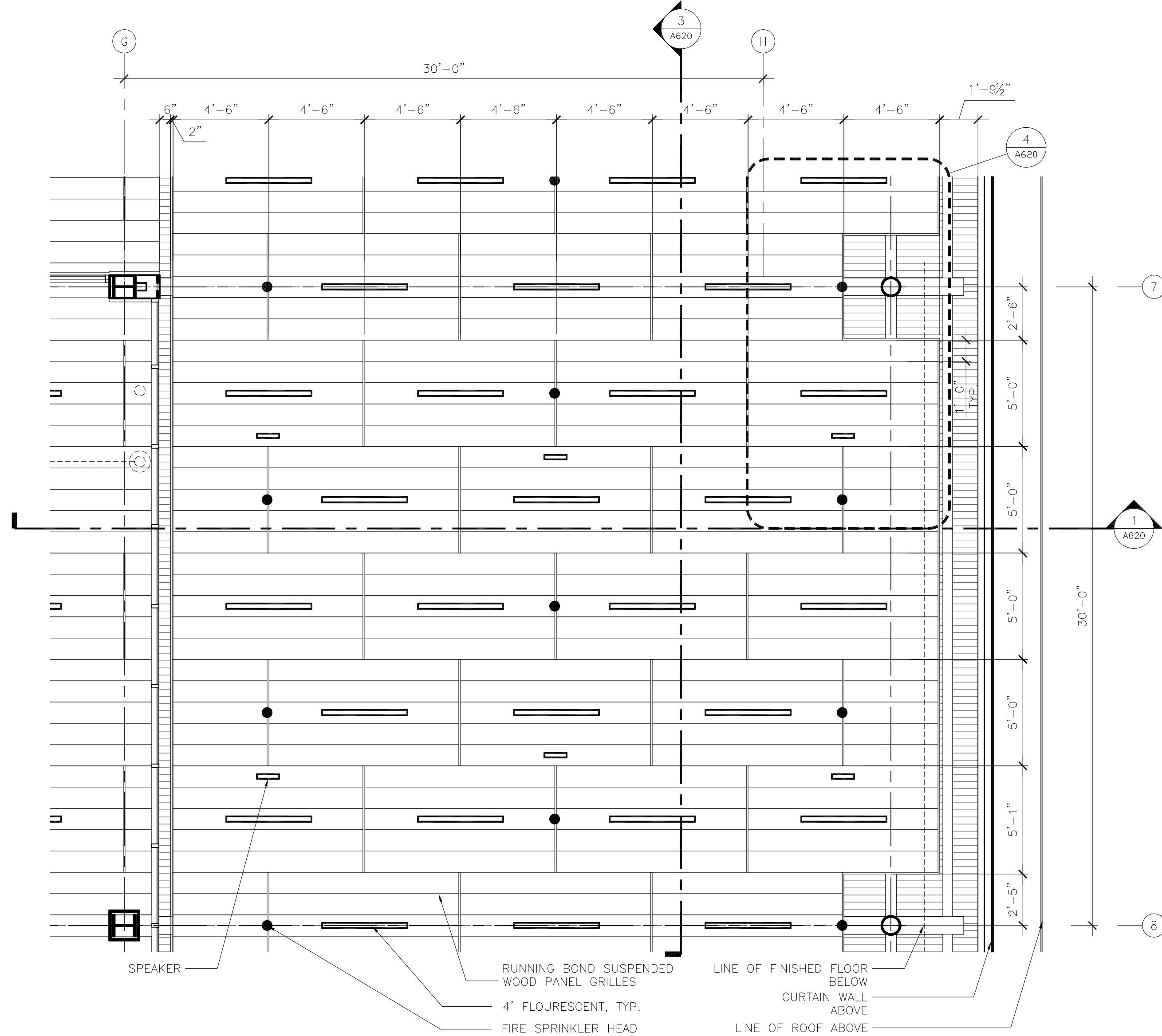
3 PARTIAL LONGITUDINAL SECTION  
1/4" = 1'-0"



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



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



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

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

**ARCHITECTURAL CERTIFICATION**  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

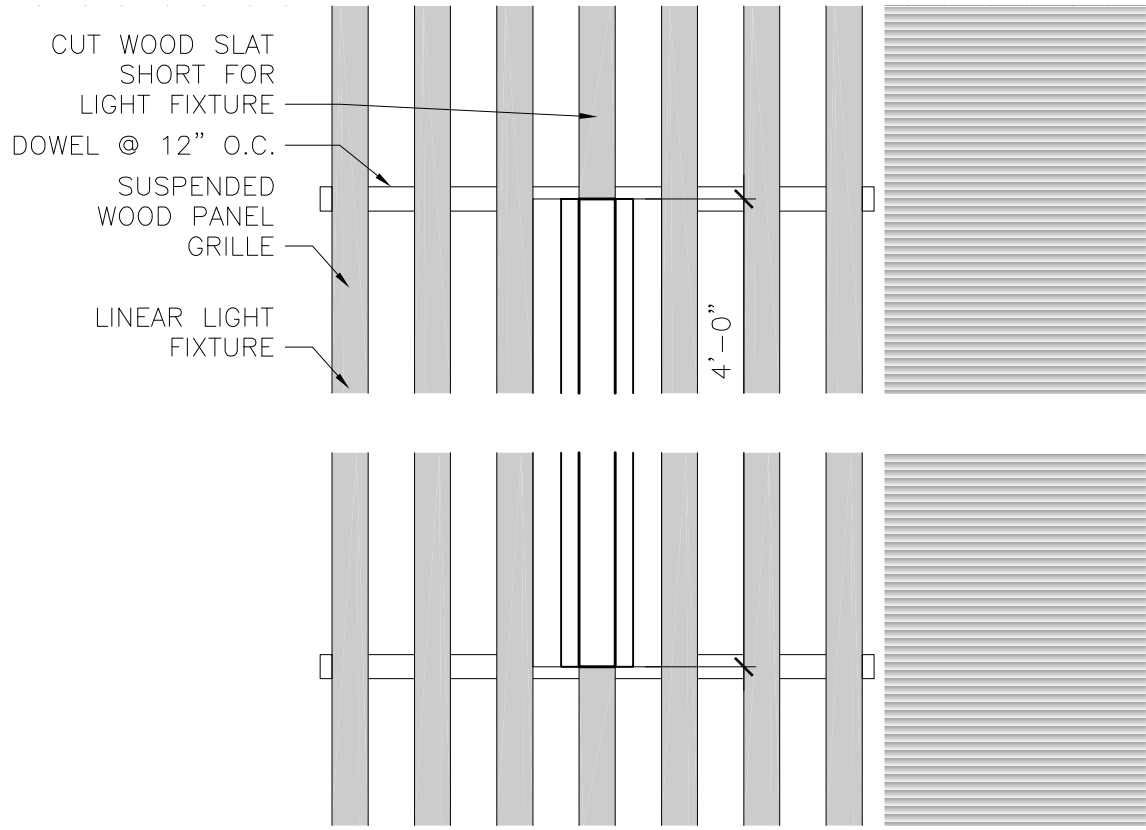
REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

**DATE ISSUED:** 08-16-10  
**REVIEWED BY:** XX  
**DRAWN BY:** MK  
**DESIGNED BY:** TC

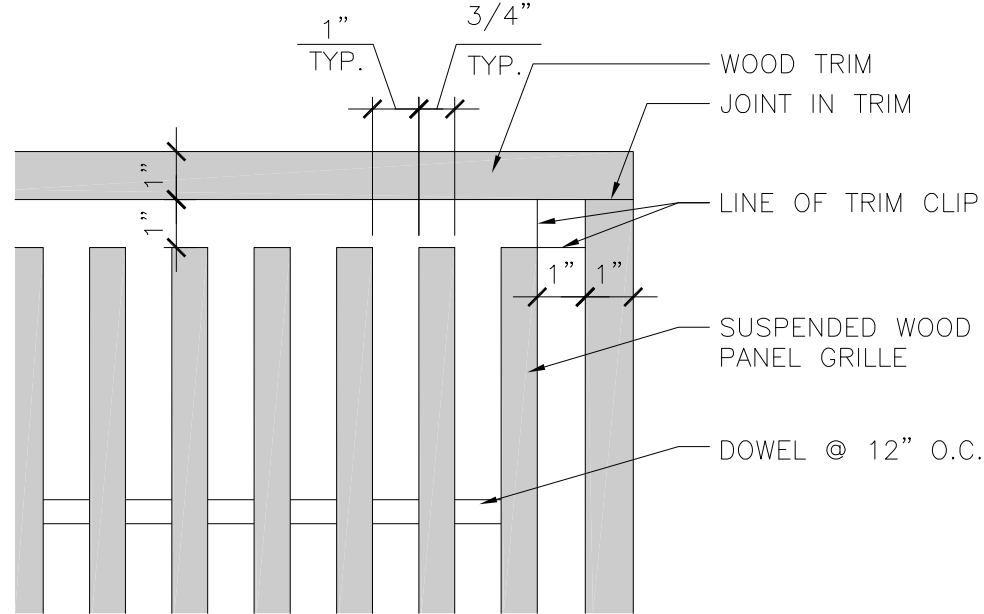
**AEP PROJECT NUMBER**  
**213-1882-091**  
XXX.DWG 00 12:00p  
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**SHEET TITLE**  
**INTERIOR  
SYSTEM SHEET  
CEILINGS**

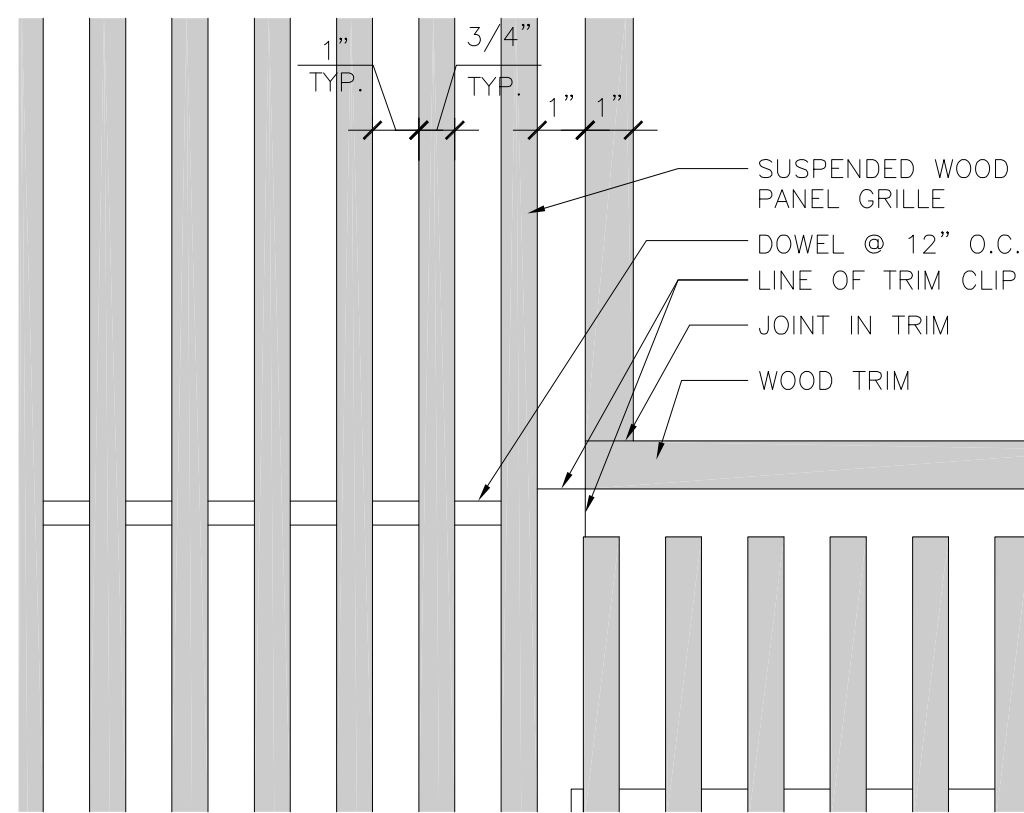
**SHEET NUMBER**  
**A620**  
**BUILDING  
PERMIT**



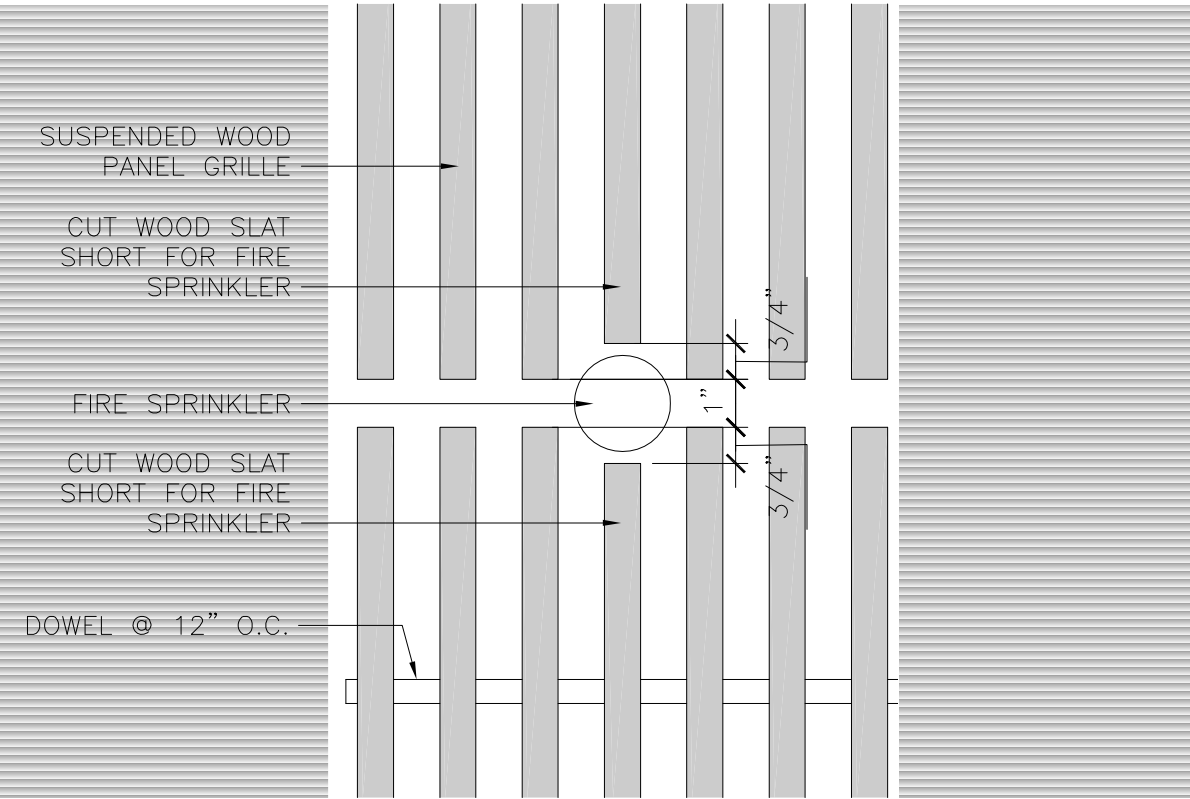
1 PLAN DETAIL - OUTSIDE TRIM CORNER  
3" = 1'-0"



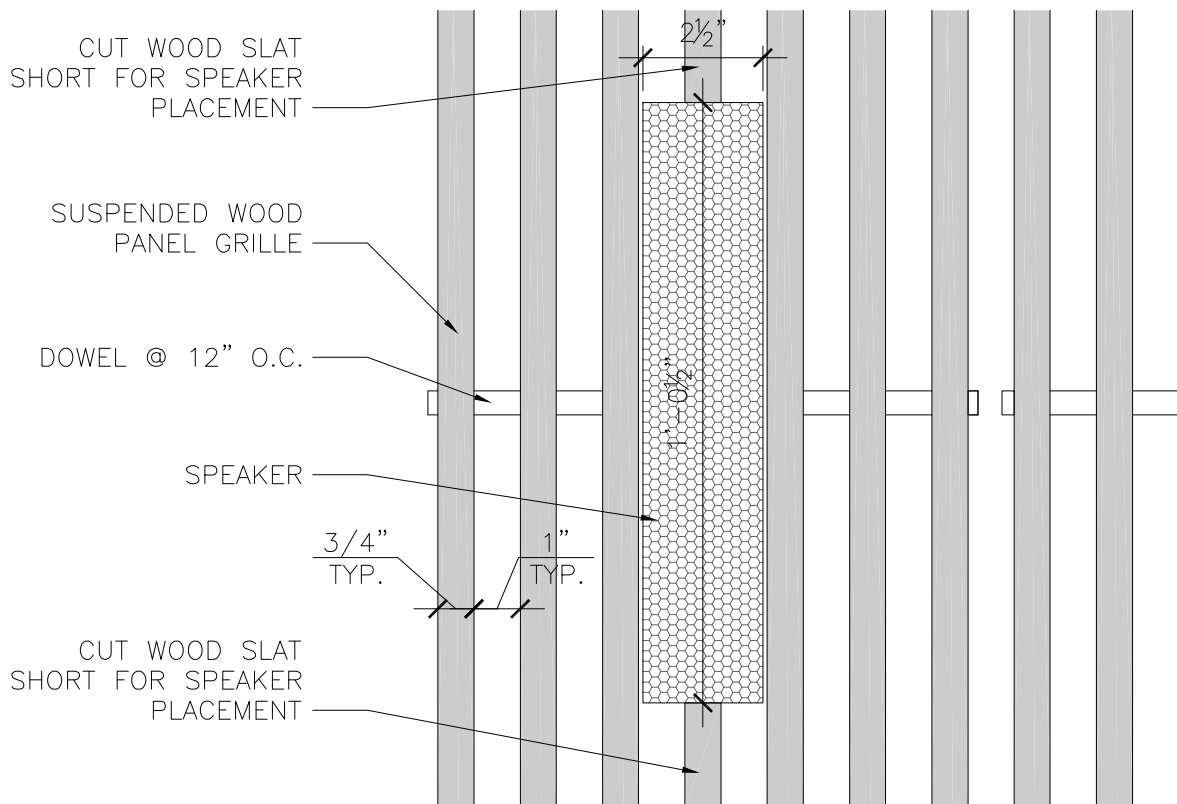
1 PLAN DETAIL - OUTSIDE TRIM CORNER  
3" = 1'-0"



2 PLAN DETAIL - INSIDE TRIM CORNER  
3" = 1'-0"



3 PLAN DETAIL - SPRINKLER HEAD  
3" = 1'-0"



4 PLAN DETAIL - SPEAKER  
3" = 1'-0"

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**REVISIONS**

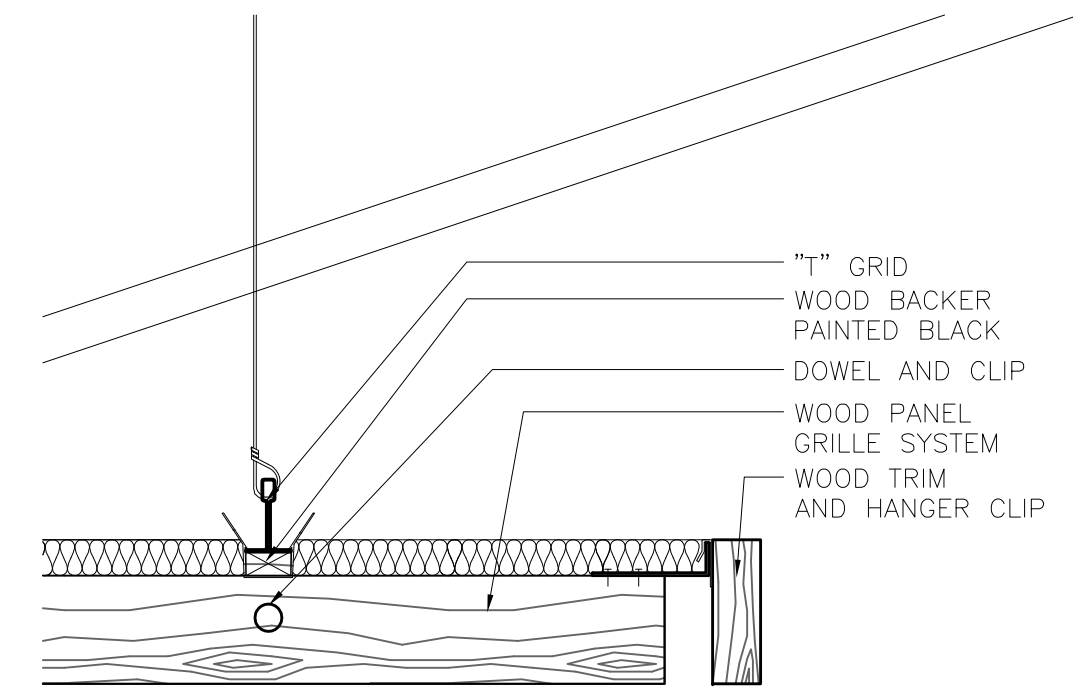
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

**DATE ISSUED:** 08-16-10  
**REVIEWED BY:** XX  
**DRAWN BY:** XX  
**DESIGNED BY:** XX

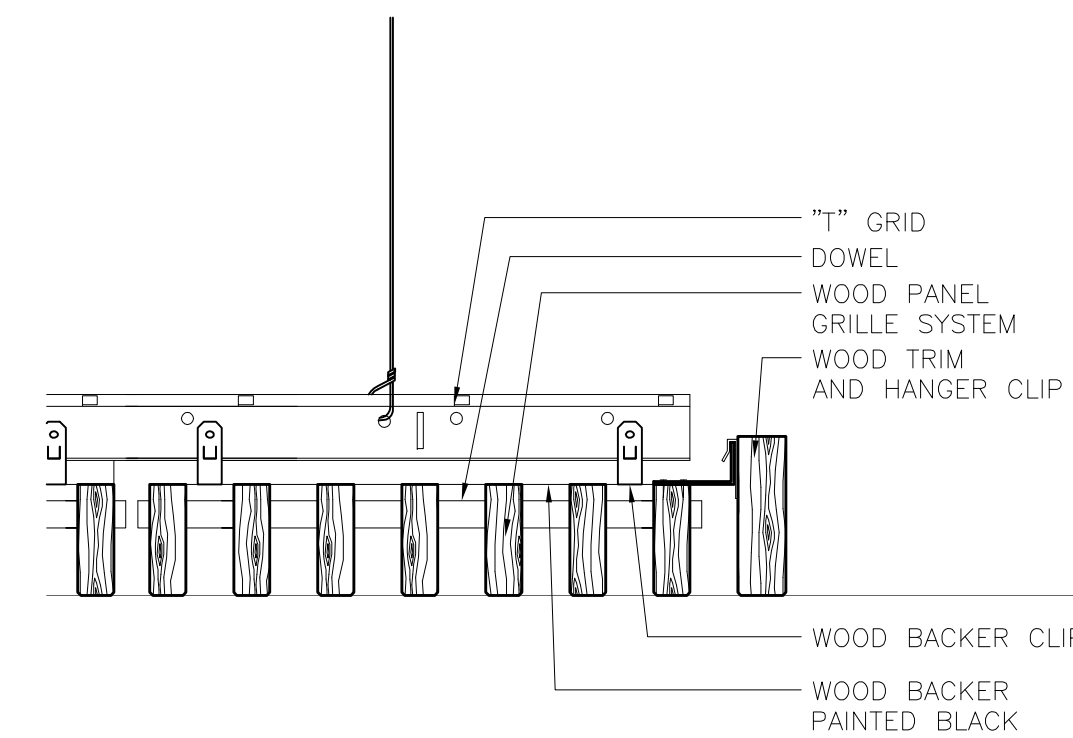
**AEP PROJECT NUMBER**  
**213-1882-091**  
xxx.dwg 8/13/2010 12:00p  
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**SHEET TITLE**  
**CEILING  
PLAN  
DETAILS**

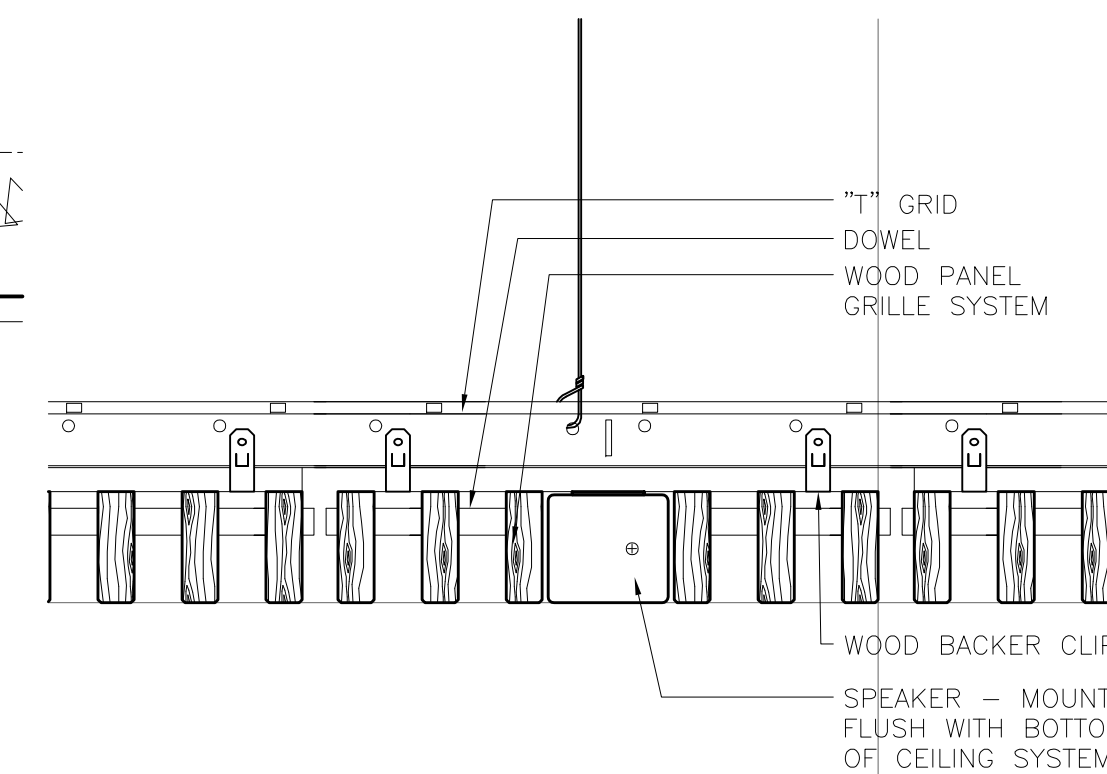
**SHEET NUMBER**  
**A621**  
**BUILDING  
PERMIT**



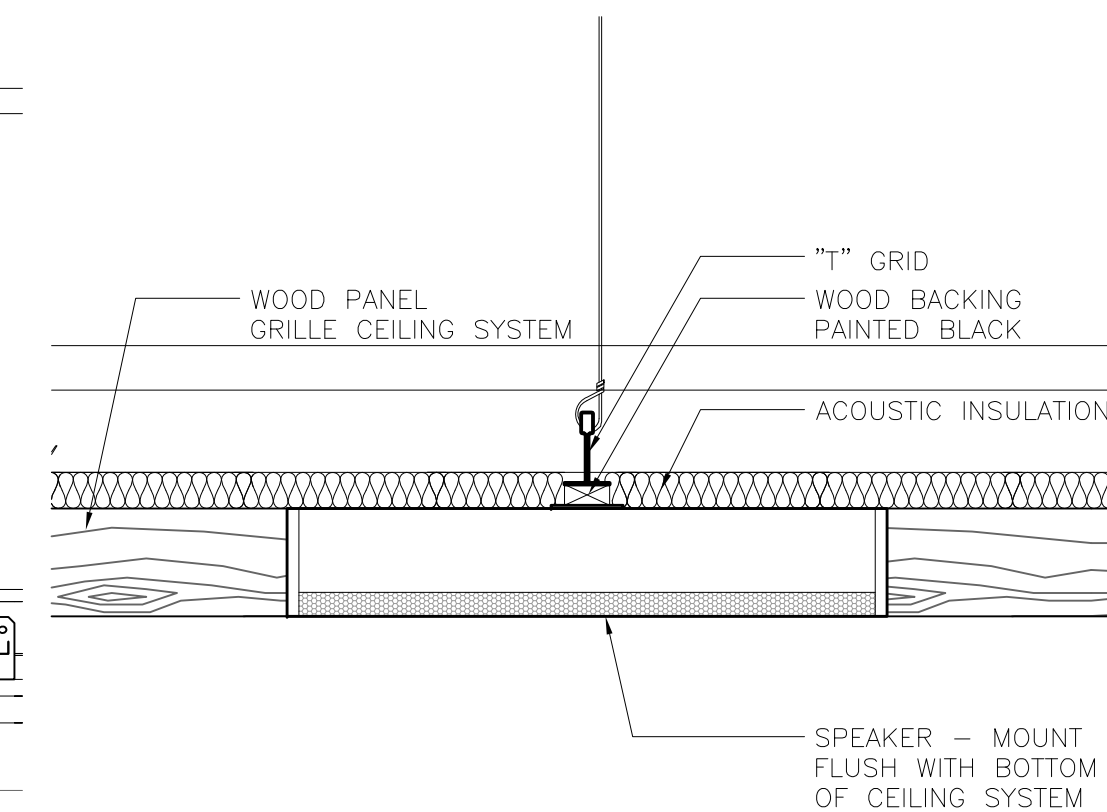
## 1 SECTION DETAIL WOOD CEILING TRIM



## 2 SECTION DETAIL WOOD CEILING TRIM



### 3 SECTION DETAIL SPEAKER AT WOOD CEILING



#### 4 SECTION DETAIL SPEAKER AT WOOD CEILING





DOOR SCHEDULE - FIRST FLOOR													
Door Number	Opening		Door			Frame		Rating	Details			Hdwr. Group	Remarks
	Width	Height	Thick	Type	Mat.	Type	Mat.		Head	Sill	Jamb		
100A	6'-10"	7'-0"	1 3/4"	--	--	--	ALUM	--	--	--	--		2
100B	6'-10"	7'-0"	1 3/4"	--	--	--	ALUM	--	--	--	--		2
100C	6'-10"	7'-0"	1 3/4"	--	--	--	ALUM	--	--	--	--		2
100D	6'-10"	7'-0"	1 3/4"	--	--	--	ALUM	--	--	--	--		2
101A	6'-10"	7'-0"	1 3/4"	--	--	--	ALUM	--	--	--	--		2
101B	6'-10"	7'-0"	1 3/4"	--	--	--	ALUM	--	--	--	--		2
101C	6'-10"	7'-0"	1 3/4"	--	--	--	ALUM	--	--	--	--		2
101D	6'-10"	7'-0"	1 3/4"	--	--	--	ALUM	--	--	--	--		2
106A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
107A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
108A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
109A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
110A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
111A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
112A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
113A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
114A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
115A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
117A	3'-4"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
117B	5'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
120A	3'-4"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
120B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
122A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
123A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
123B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
124A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
125A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
125B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
126A	9'-0"	7'-0"	1"	--	--	--	H.M.	--	--	--	--		
126B	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
126C	3'-6"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
127A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
127B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
128A	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
129A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
130A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
131A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
131B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
133A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
133C	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
133D	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
134A	2'-8"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
135A	2'-8"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
137A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
138A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
140A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
140B	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
141A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
142A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
143A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
144A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
145A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
146A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
146A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
149A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
149B	4'-0"	6'-8"	1 3/4"	--	--	--	H.M.	--	--	--	--		
150A	3'-6"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
151A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
153A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
155B	9'-6"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
156A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
157A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
158A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
159A	21'-3"	7'-0"	1"	--	--	--	H.M.	--	--	--	--		2
159B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
160A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
161A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
162A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
163A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
164A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
165A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
166A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
166A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
168A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
169A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
170A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
171A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
172A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
173A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
174A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
175A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
176A	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
176B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
176C	16'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
176D	16'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
176E	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
176F	3'-0"	7'-0"	2"	--	--	--	H.M.	1	--	--	--		
178A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
178B	14'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
178C	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
179A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
179B	14'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
179C	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
180A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
181A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
183A	2'-8"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
184A	2'-8"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
190A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
190B	3'-4"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
191A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	1	--	--	--		
193A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
Remarks													
1	Provide Panic Hardware per IBC 1008.1.9												
2	Provide Break-Away emergency exit doors												
3													
4													
5													
6													

DOOR SCHEDULE - SECOND FLOOR													
Door Number	Opening		Door			Frame		Rating	Details			Hdwr. Group	Remarks
	Width	Height	Thick	Type	Mat.	Type	Mat.		Head	Sill	Jamb		
203A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
203B	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
204A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
205A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
208A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
208B	9'-9 3/4"	7'-0"	1"	--	--	--	--	H.M.	--	--	--	--	2
209A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
210A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
211A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
212A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
213A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
214A	30'-0"	7'-0"	1"	--	--	--	--	H.M.	--	--	--	--	
214B	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
215A	4'-3"	7'-1"	1 3/4"	--	--	--	--	--	--	--	--	--	2
215B	4'-3"	7'-1"	1 3/4"	--	--	--	--	--	--	--	--	--	2
215C	4'-3"	7'-1"	1 3/4"	--	--	--	--	--	--	--	--	--	2
215D	4'-3"	7'-1"	1 3/4"	--	--	--	--	--	--	--	--	--	2
217A	3'-5"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
219A	3'-0"	7'-0"	1 3/4"	--	--	--	--	ALUM.	--	--	--	--	1
219B	3'-2"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
219C	4'-6"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
219E	4'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
219F	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
219G	3'-6"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
219H	3'-6"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
219I	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
223A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
230A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
231A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
232A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
232B	3'-0"	7'-0"	1 3/4"	--	--	--	--	ALUM.	--	--	--	--	1
233B	3'-0"	7'-0"	1 3/4"	--	--	--	--	ALUM.	--	--	--	--	
234A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
234C	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
235A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
236A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
237A	10'-1"	7'-0"	1 3/8"	--	--	--	--	ALUM.	--	--	--	--	2
237B	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
237C	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
237D	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	1
238A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
239A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
240A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
241A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
242A	4'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
245A	3'-0"	7'-0"	2"	--	--	--	--	H.M.	--	--	--	--	
249A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
250A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
250B	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
251A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	--	--	--	--	
290A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	1	--	--	--	1
291A	3'-0"	7'-0"	1 3/4"	--	--	--	--	H.M.	1	--	--	--	1
Remarks													
1	Provide Panic Hardware per IBC 1008.1.9												
2	Provide Break-Away emergency exit doors												
3													
4													
5													
6													

DOOR SCHEDULE - THIRD FLOOR													
Door Number	Opening		Door			Frame		Details				Hdwr. Group	Remarks
	Width	Height	Thick	Type	Mat.	Type	Mat.	Rating	Head	Sill	Jamb		
301A	4'-6"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
301B	4'-6"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
301C	4'-6"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
301D	4'-6"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
302A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
304A	4'-0"	7'-0"	1 3/4"	--	--	--	H.M.	1	--	--	--		1
304B	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	1	--	--	--		1
304C	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
305A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
306A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
307A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
308A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
309A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
310A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
311A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
312A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
313A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
313B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
314A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
315A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
316A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
317A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
317B	5'-0"	7'-0"	1 1/4"	--	--	--	H.M.	--	--	--	--		
318A	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		1
318C	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
319A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
320A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
322B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		1
323A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
324A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
325A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
326A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
327A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
331A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
331B	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
332A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
333A	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	1	--	--	--		1
333B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
333C	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	--	--	--	--		
334A	6'-0"	7'-0"	1 3/4"	--	--	--	H.M.	1	--	--	--		1
335C	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
336A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
336B	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
337A	3'-0"	7'-0"	2"	--	--	--	H.M.	--	--	--	--		
380A	3'-0"	7'-0"	2"	--	--	--	H.M.	1	--	--	--		1
391A	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	1	--	--	--		1
391B	3'-0"	7'-0"	1 3/4"	--	--	--	H.M.	1	--	--	--		1
Remarks													
1	Provide Panic Hardware per IBC 1008.1.9												
2													
3													
4													
5													
6													

### 3 DOOR SCHEDULE - FIRST FLOOR

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### Structural Engineers:

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01 East Ridge Office Park, Suite 103, Danbury CT 06810  
TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants

**APPOLD DESIGN**

TEL: (218) 591-507

ARCHITECTURAL CERTIFICATION

I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10      Reg. No.: 46001

## REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

**DATE ISSUED:** 08-16-10

REVIEWED BY: SBS/T

**DRAWN BY:** MI

DESIGNED BY **SBC/T**

REG 011 353/10

**P PROJECT NUMBER**

**213-1882-091**

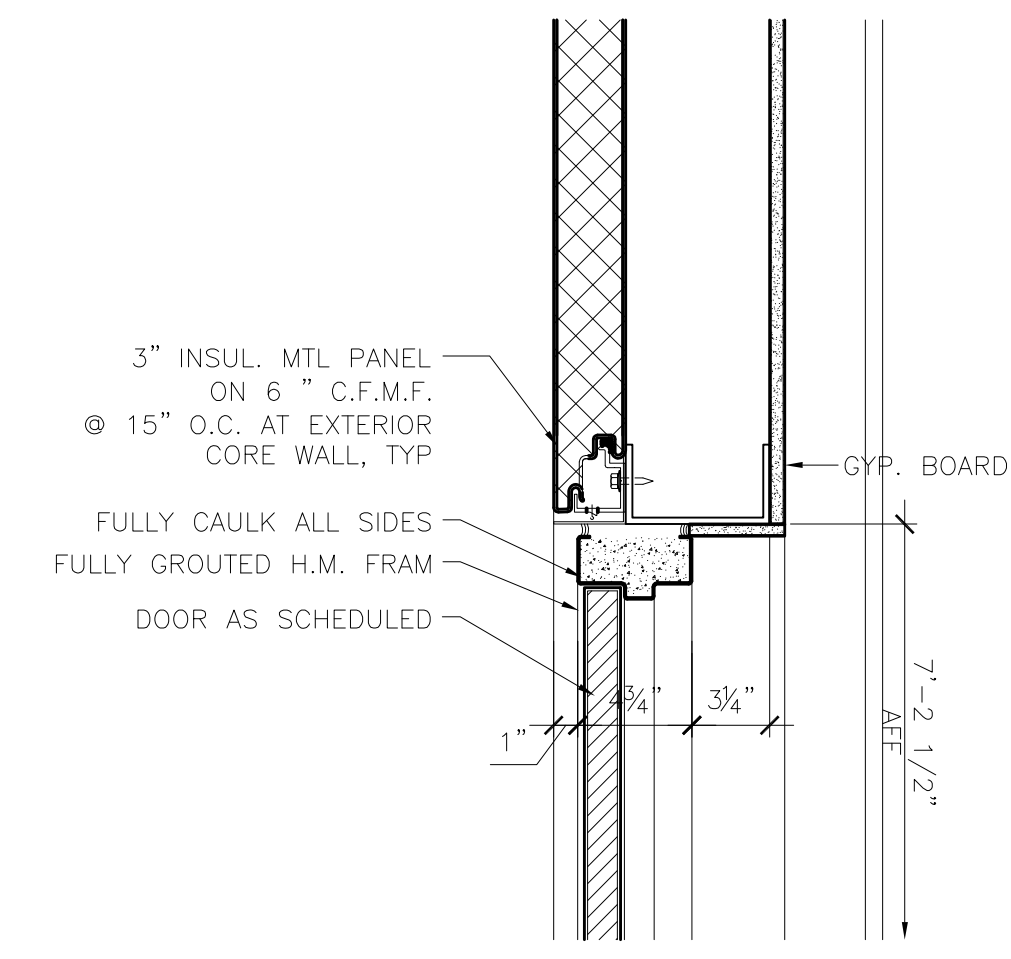
**SHEET TITLE**

## DOOR SCHEDULES

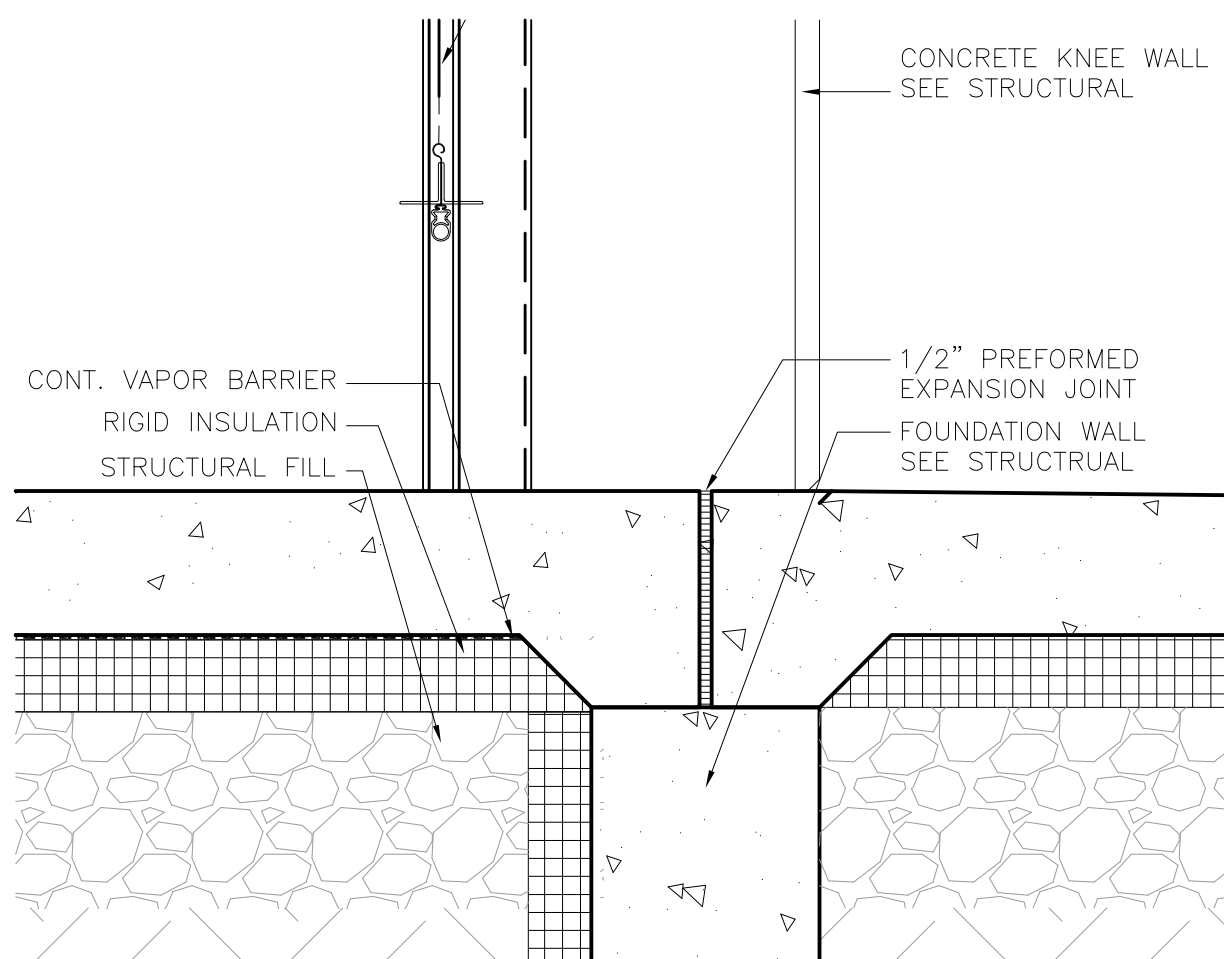
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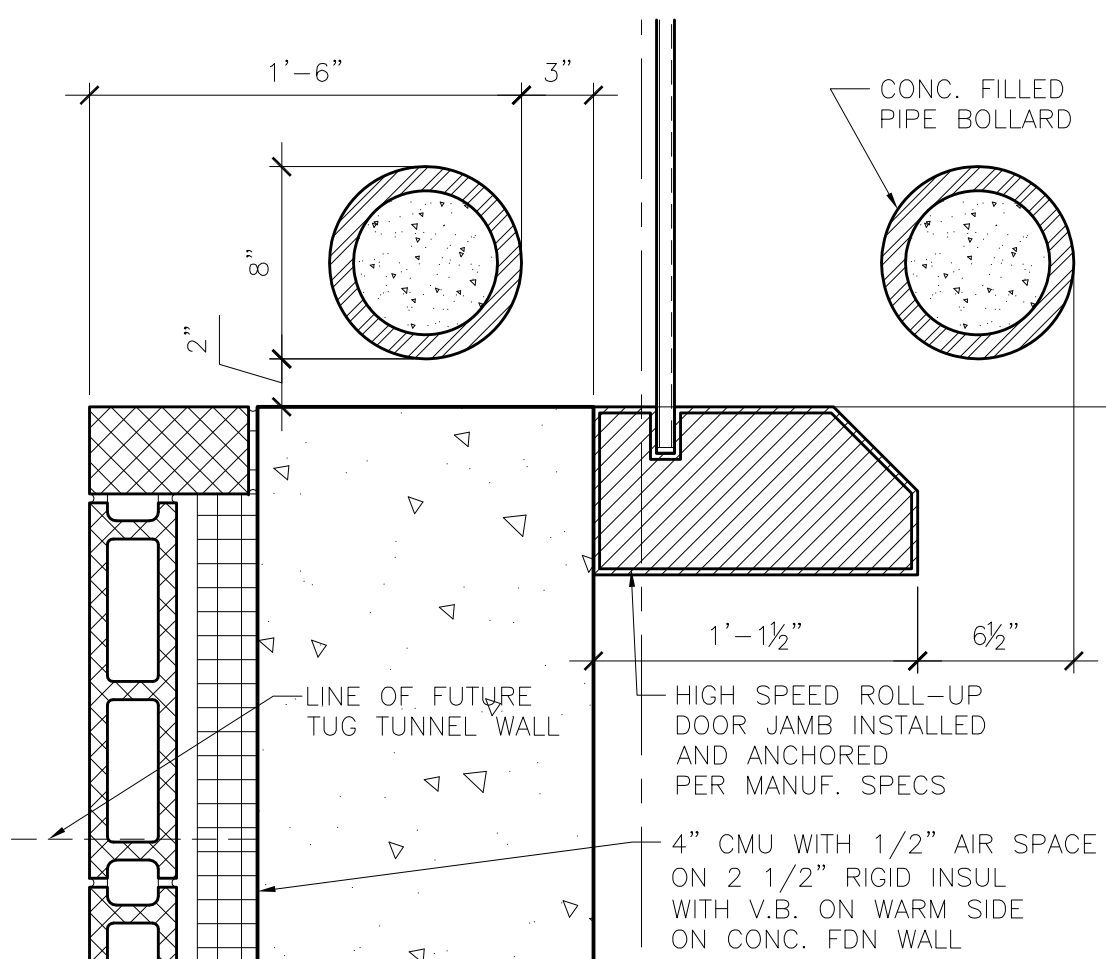
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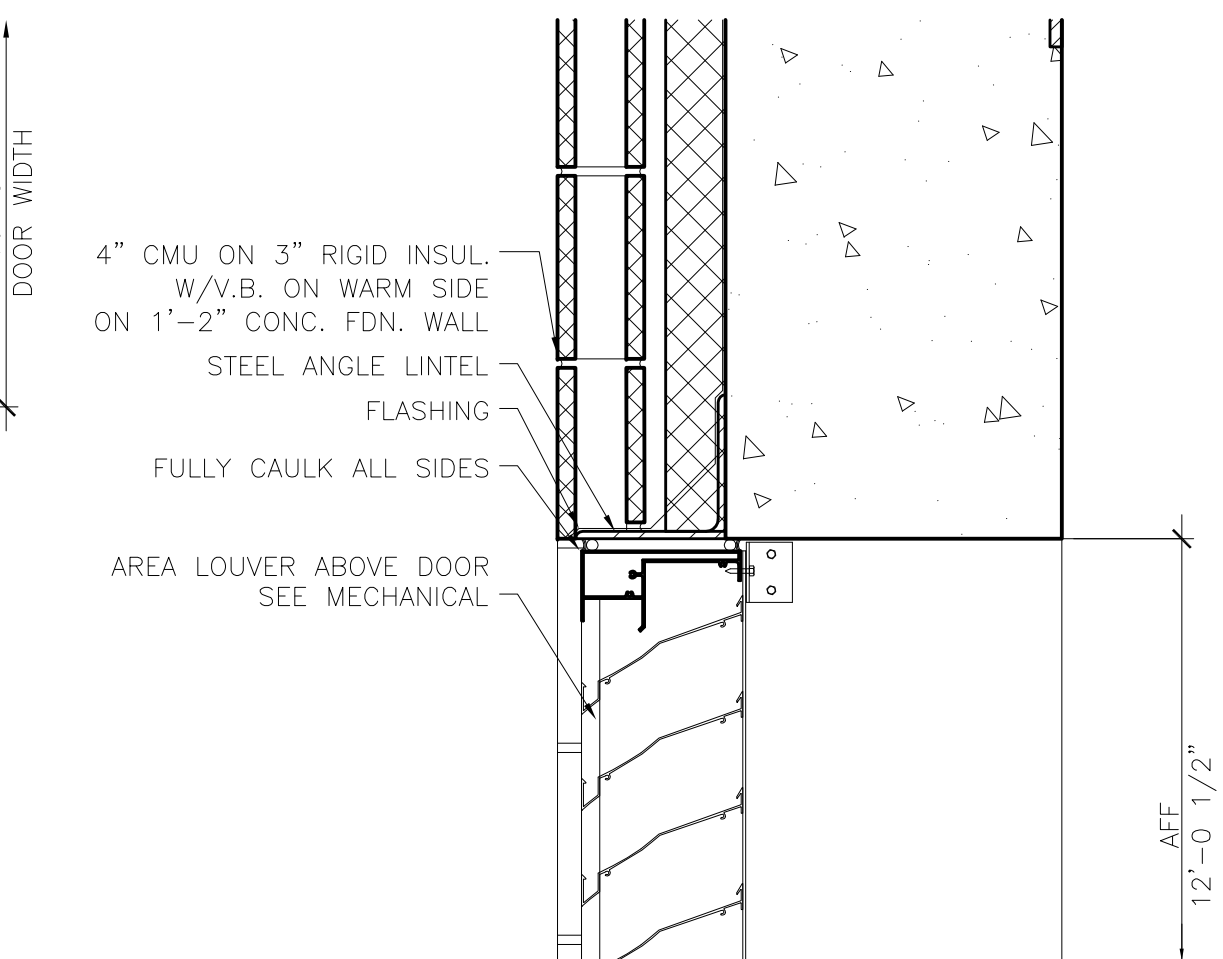
17 TYP. HEAD @ 3RD FLOOR NORTH WALL DOOR  
1 1/2" = 1'-0"



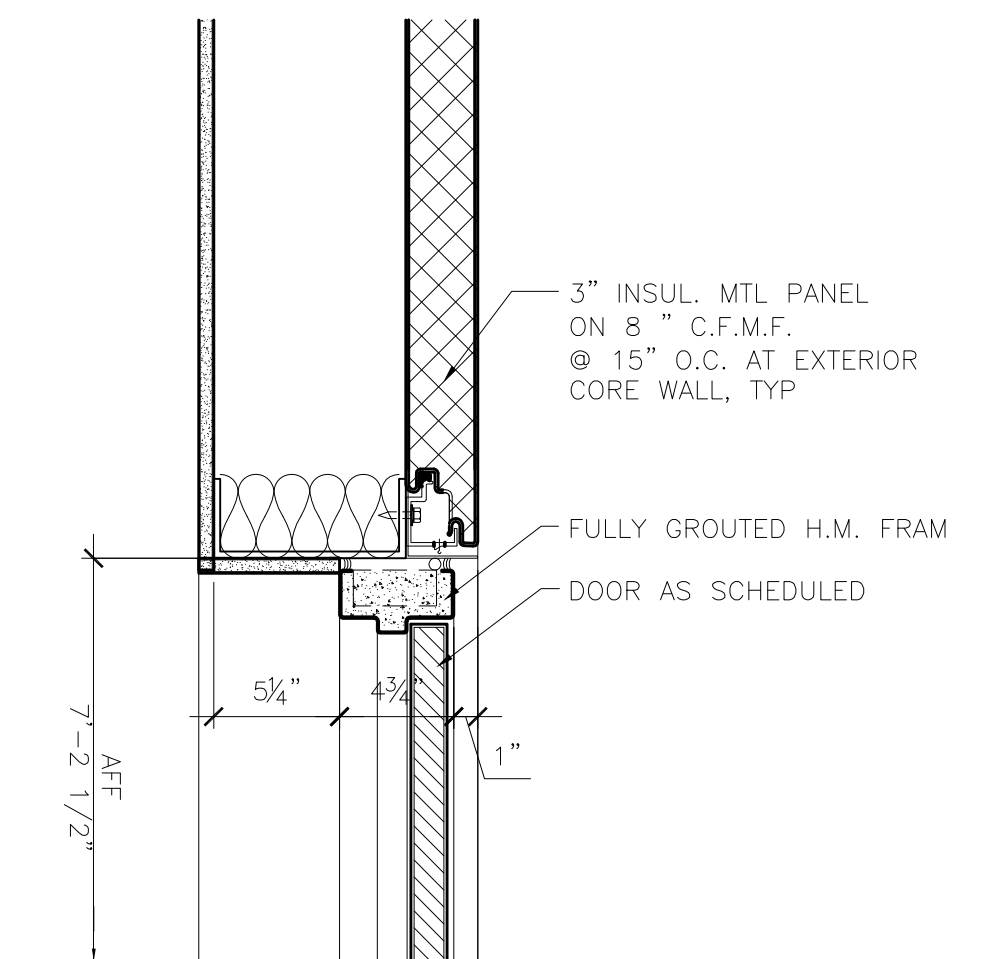
13 TYP. SILL @ EXT. COILING DOOR  
1 1/2" = 1'-0"



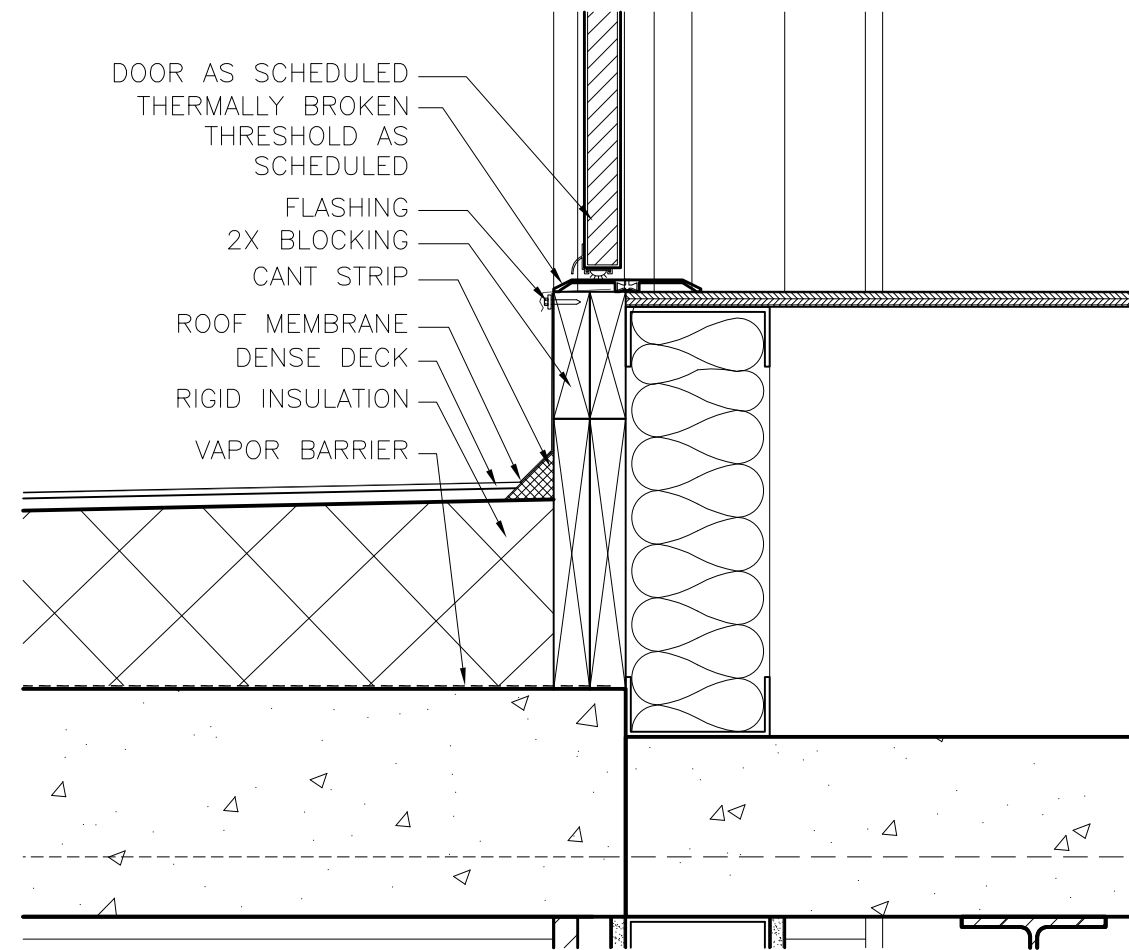
9 TYP. JAMB @ HIGH SPEED O.H. DOOR  
1 1/2" = 1'-0"



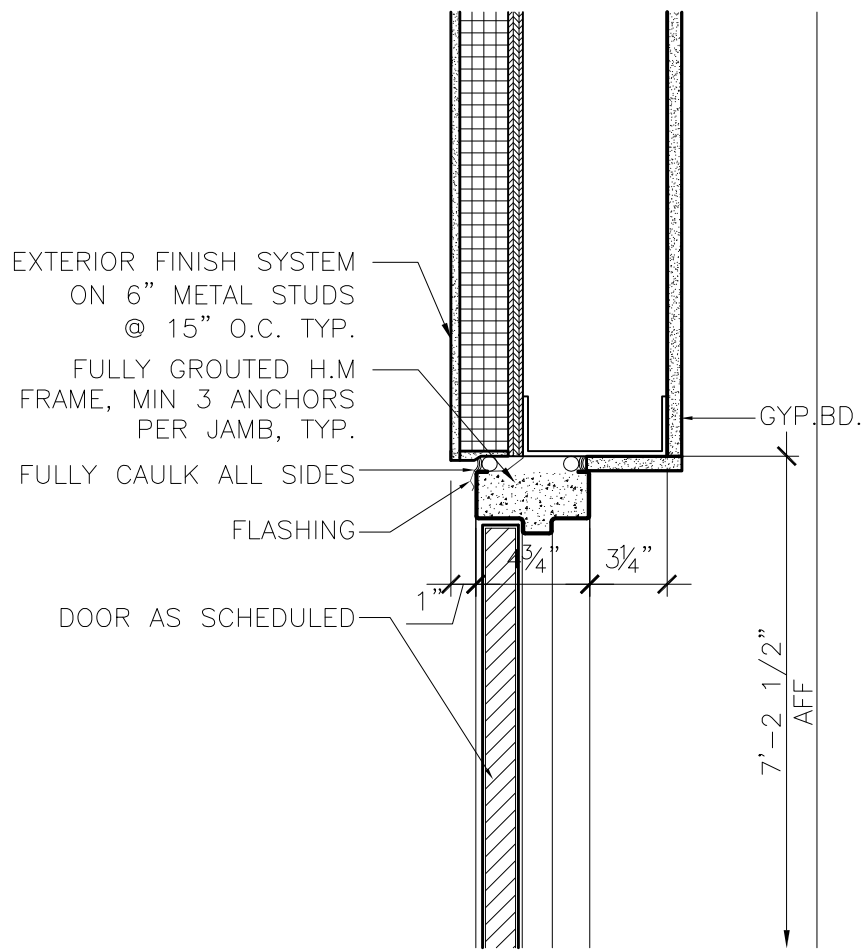
5 TYP. HEAD @ EXT. TUG TUNNEL DOOR LOUVER  
1/16" = 1'-0"



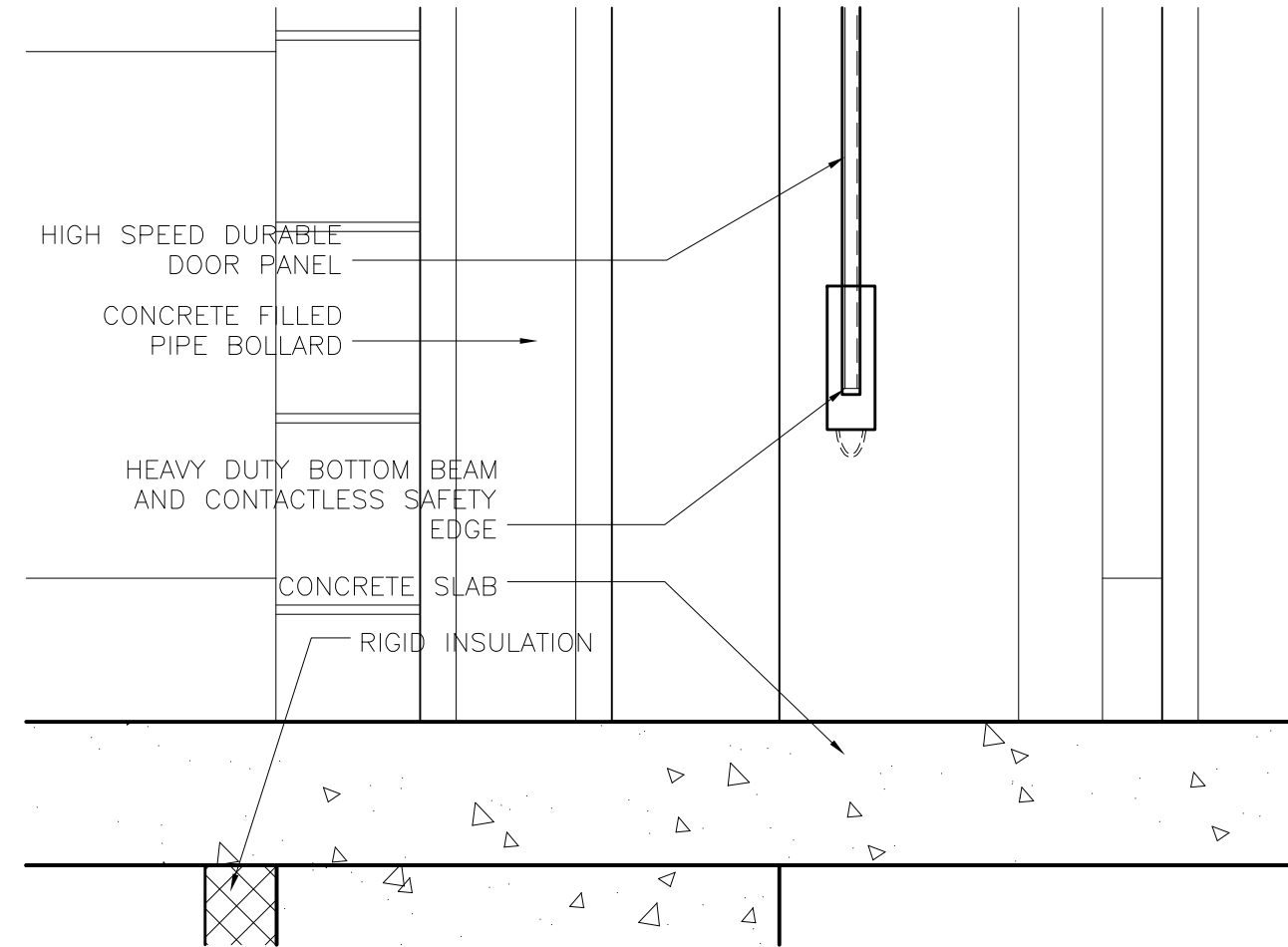
1 TYP. HEAD @ EXT. CORE DOOR  
1 1/2" = 1'-0"



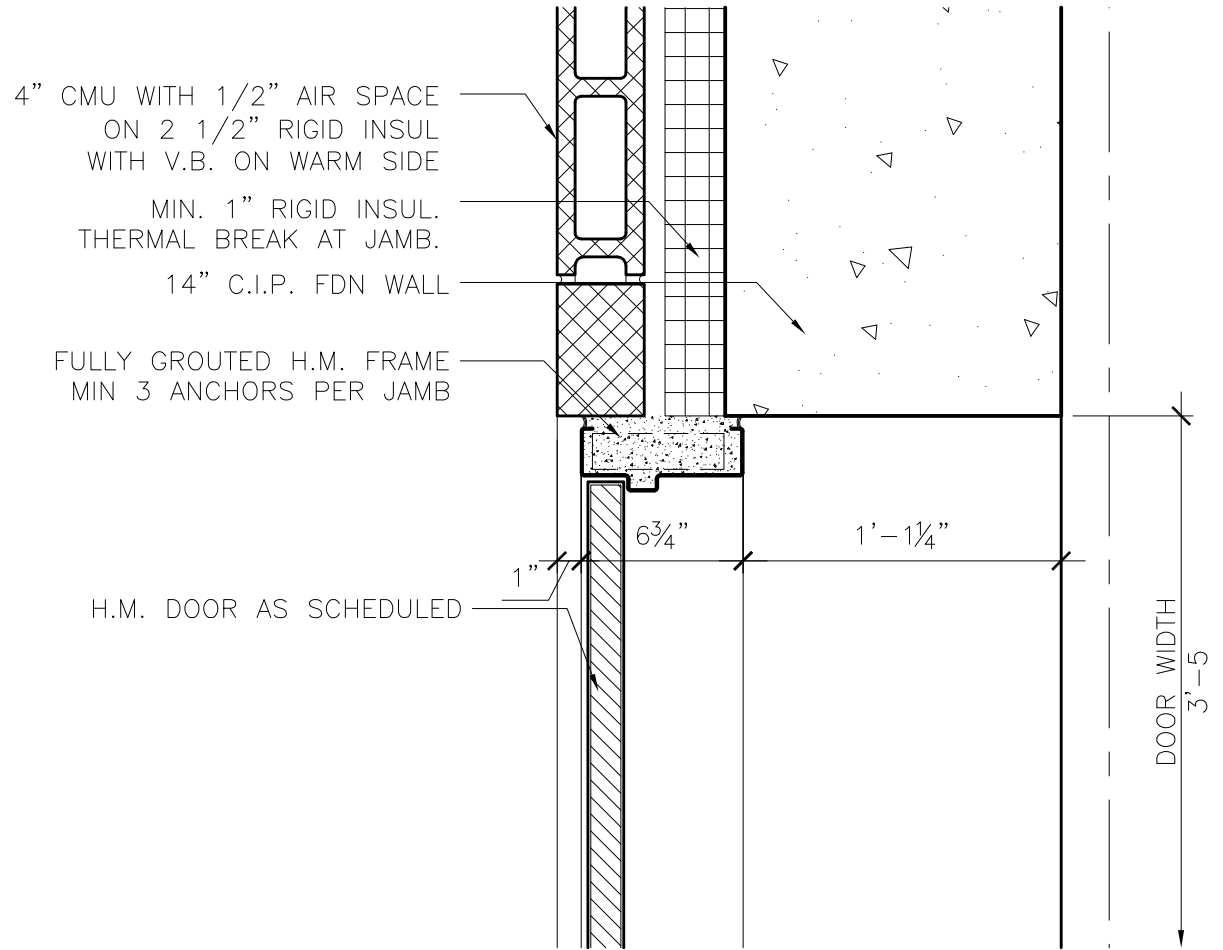
18 TYP. SILL @ 3RD FLOOR NORTH WALL DOOR  
1 1/2" = 1'-0"



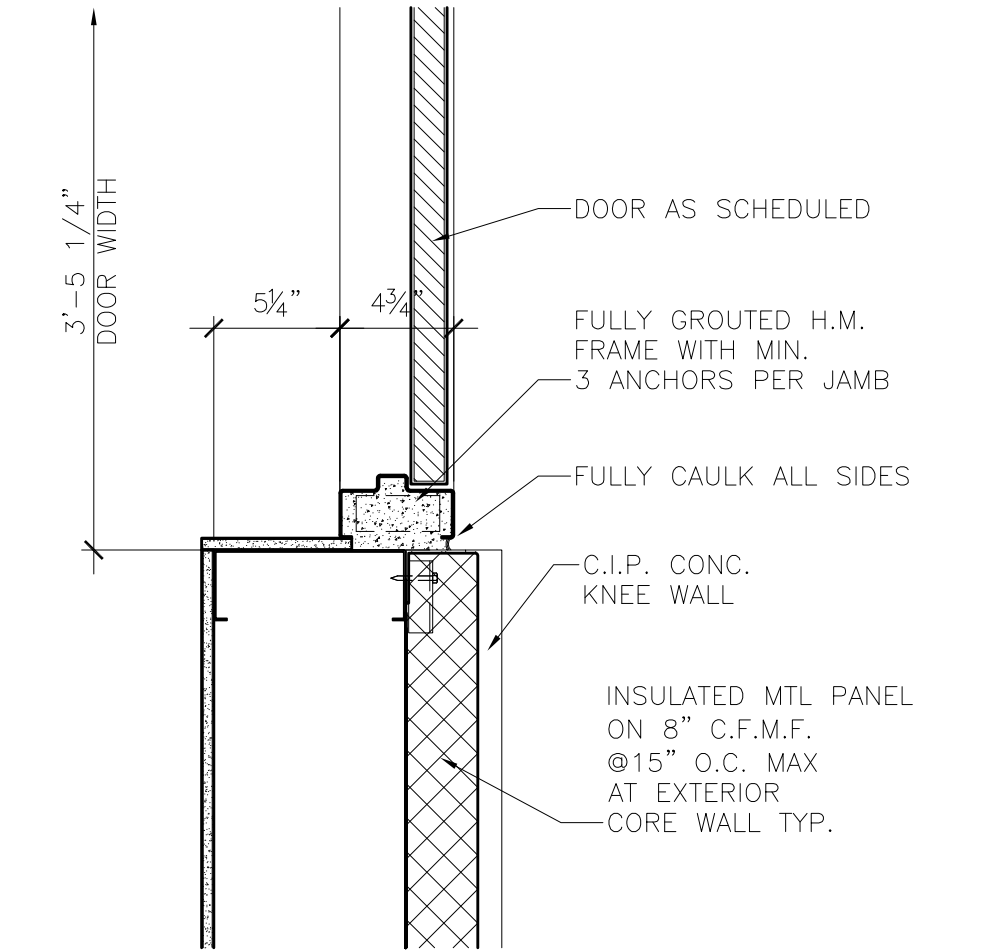
14 HEAD @ CHILLER ENCLOSURE  
1 1/2" = 1'-0"



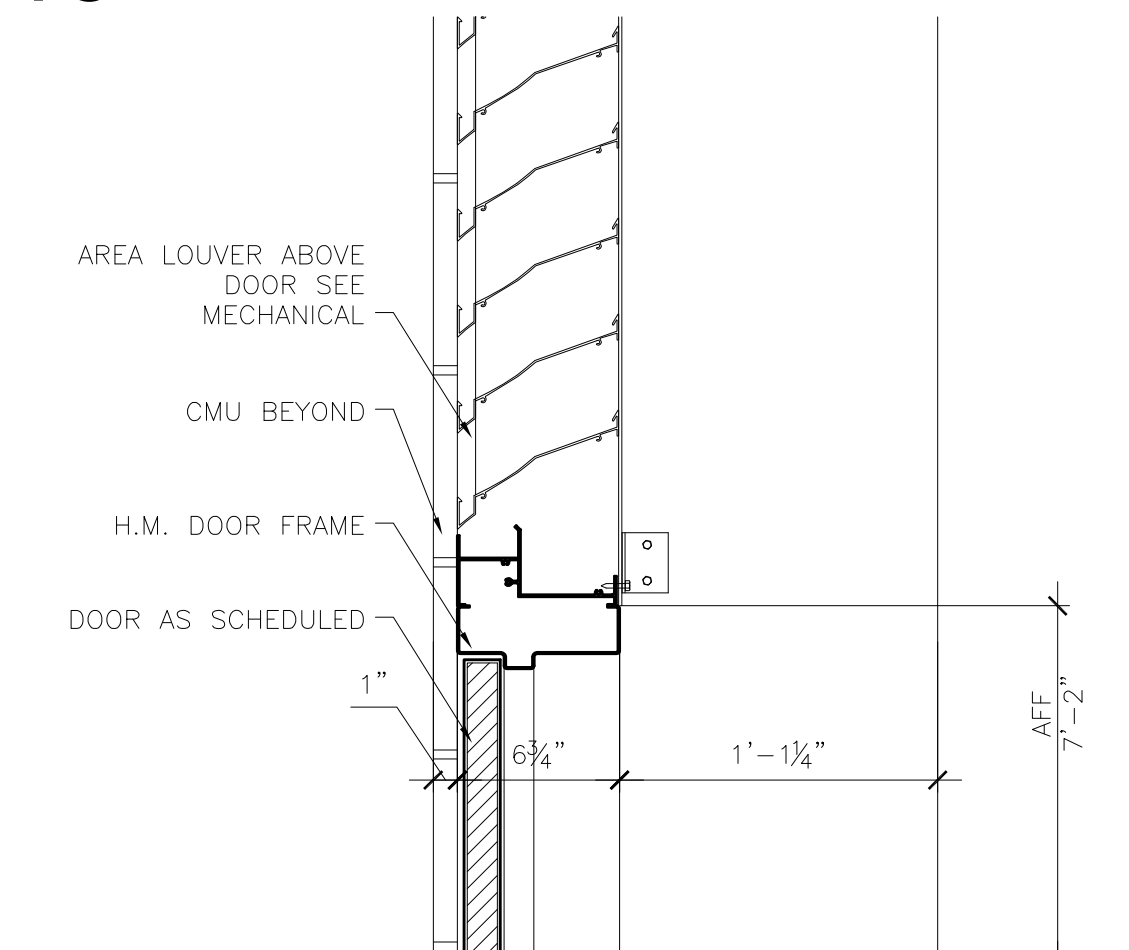
10 TYP. SILL @ HIGH SPEED O.H. DOOR  
1 1/2" = 1'-0"



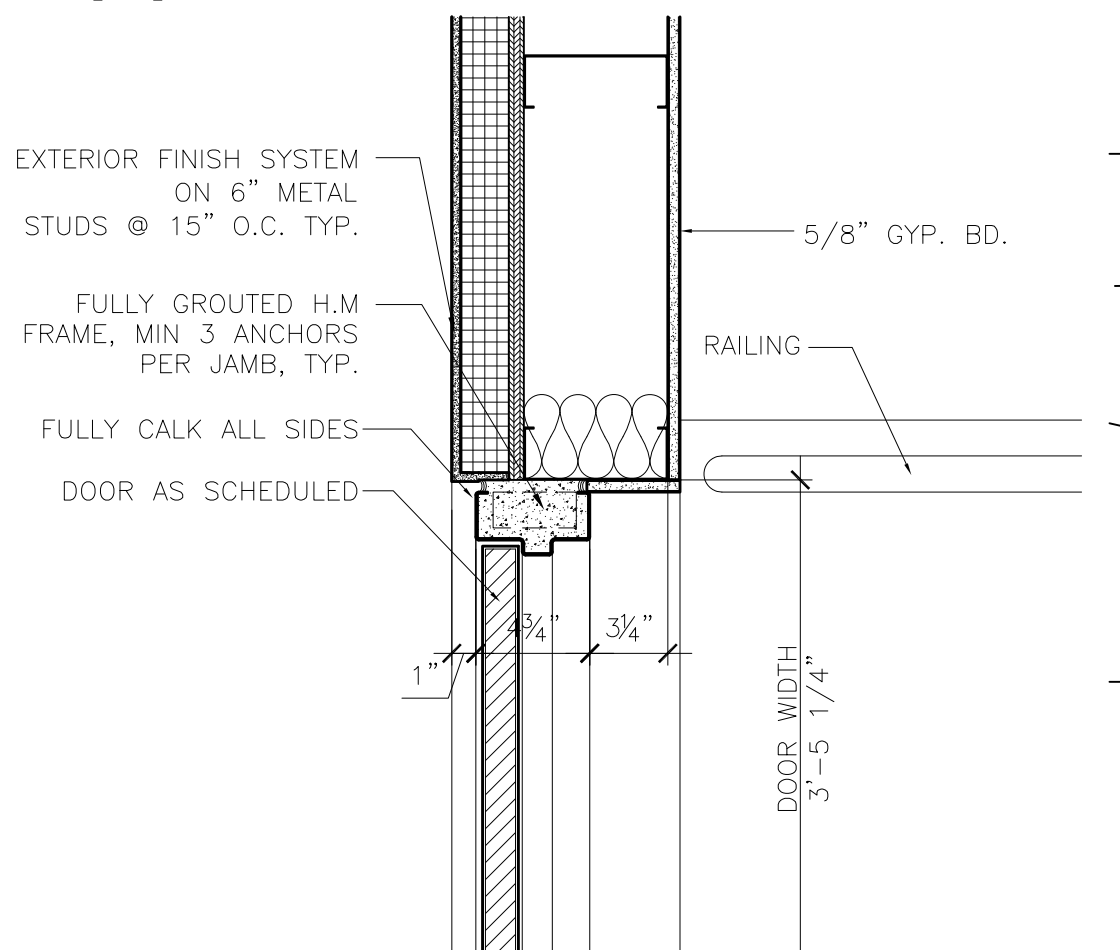
6 TYP. JAMB @ EXT. TUG TUNNEL DOOR  
1 1/2" = 1'-0"



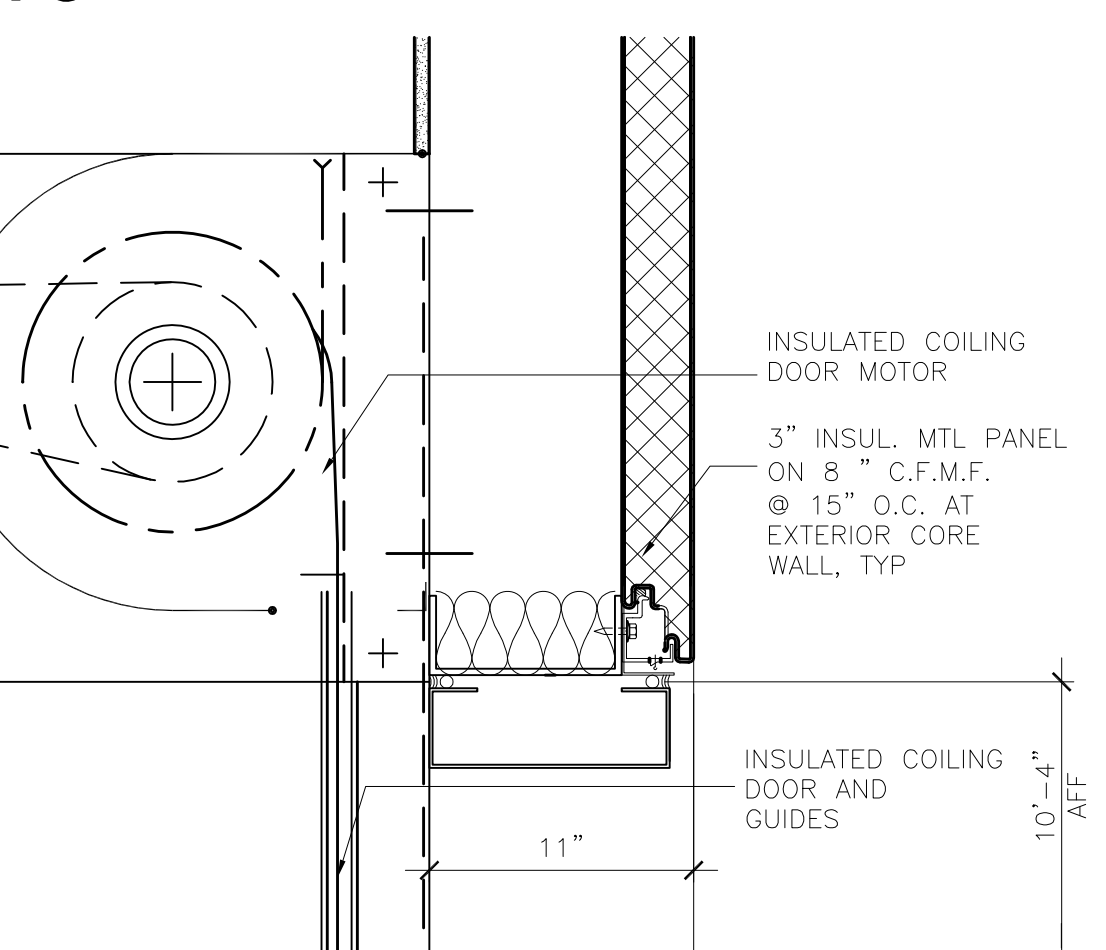
2 TYP. JAMB @ EXT. CORE WALL  
1 1/2" = 1'-0"



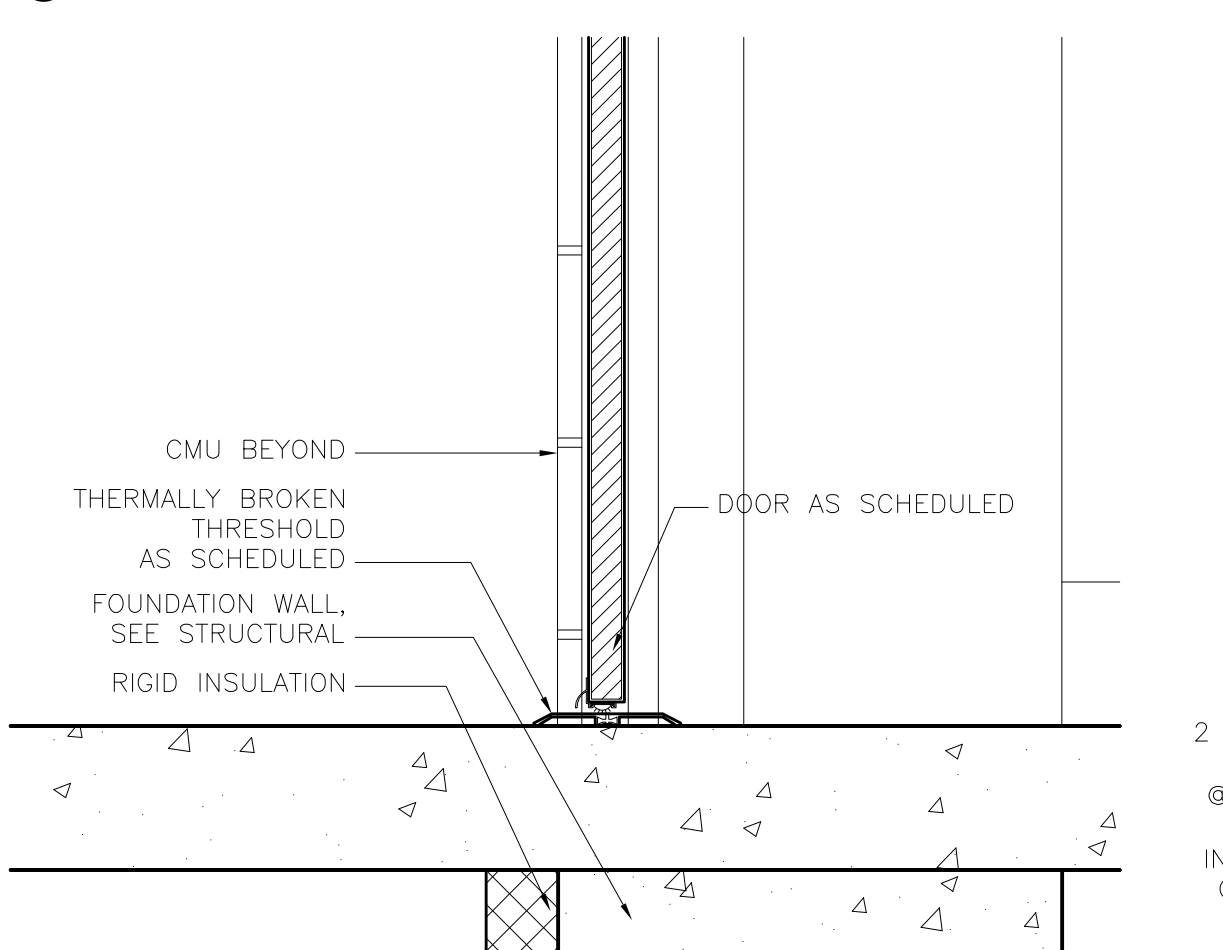
19 TRANSOM @ TUG TUNNEL DOOR  
1 1/2" = 1'-0"



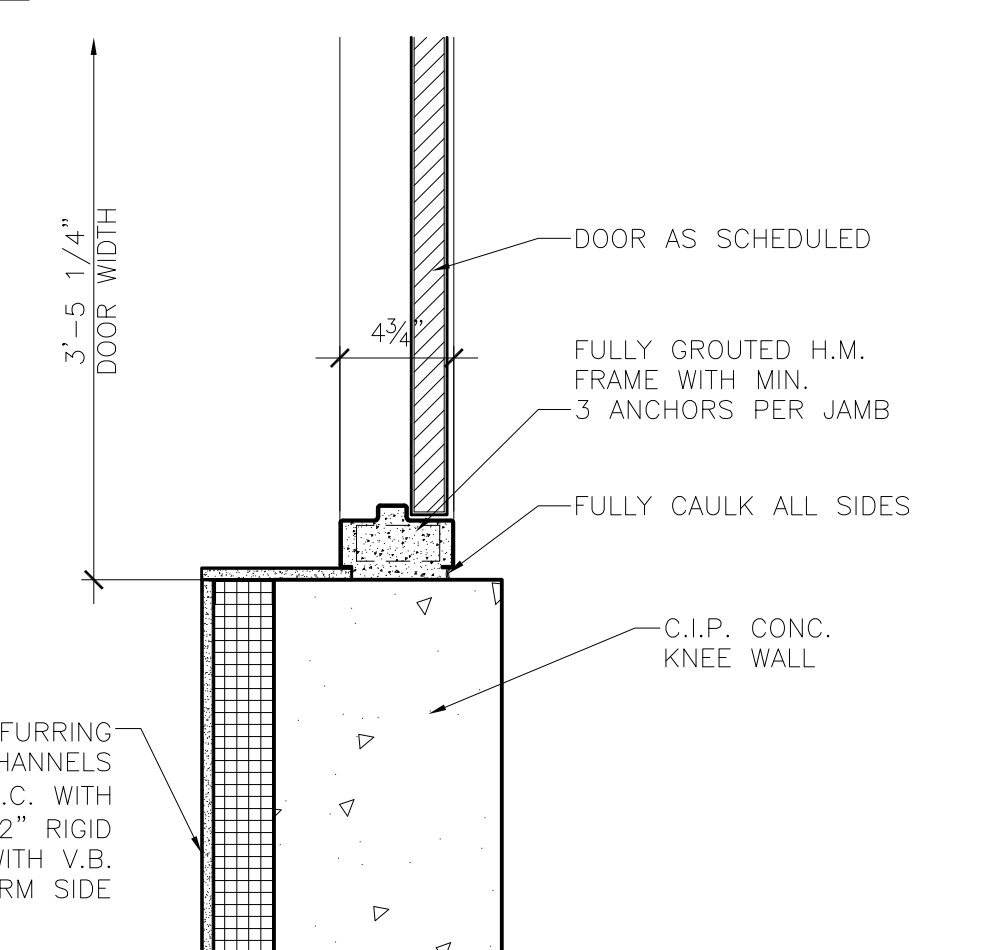
15 JAMB @ CHILLER ENCLOSURE DOOR  
1 1/2" = 1'-0"



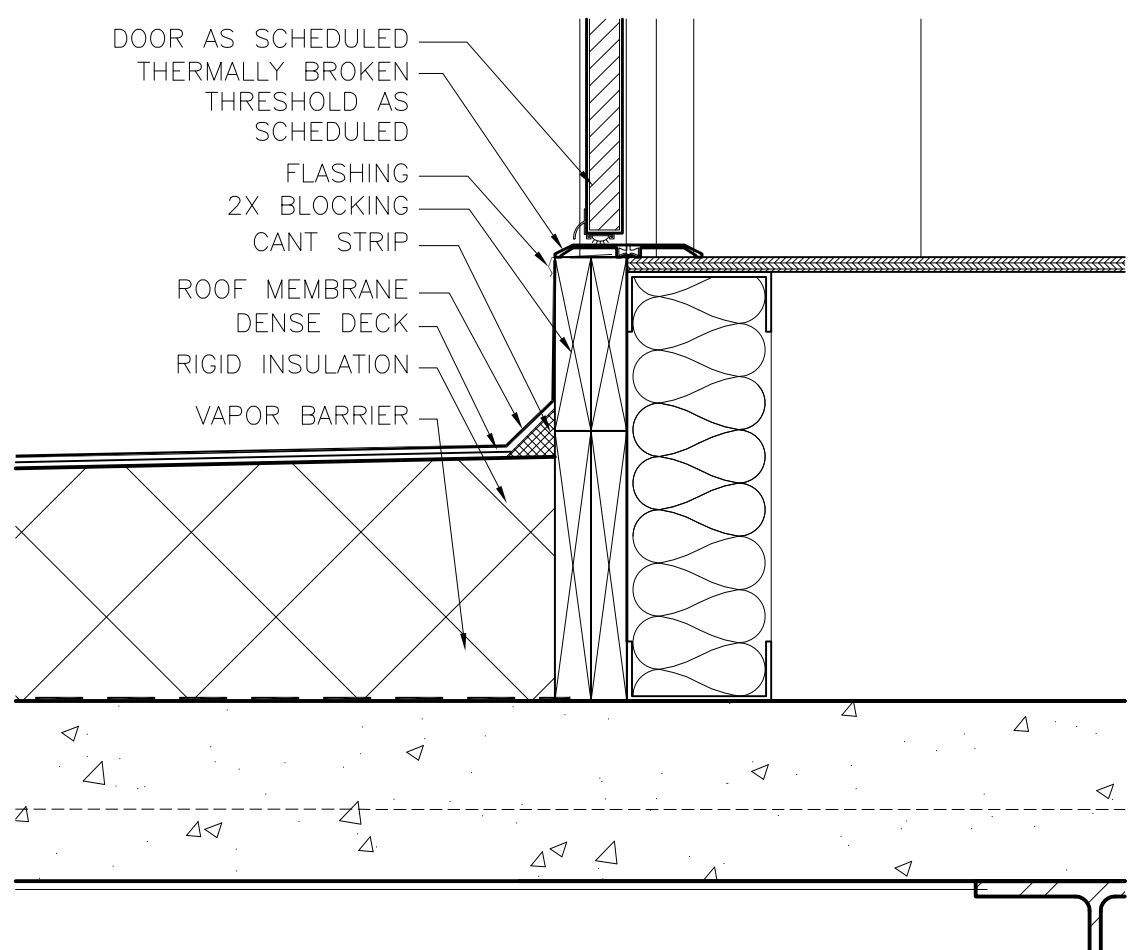
11 TYP. HEAD @ EXT. COILING DOOR  
1 1/2" = 1'-0"



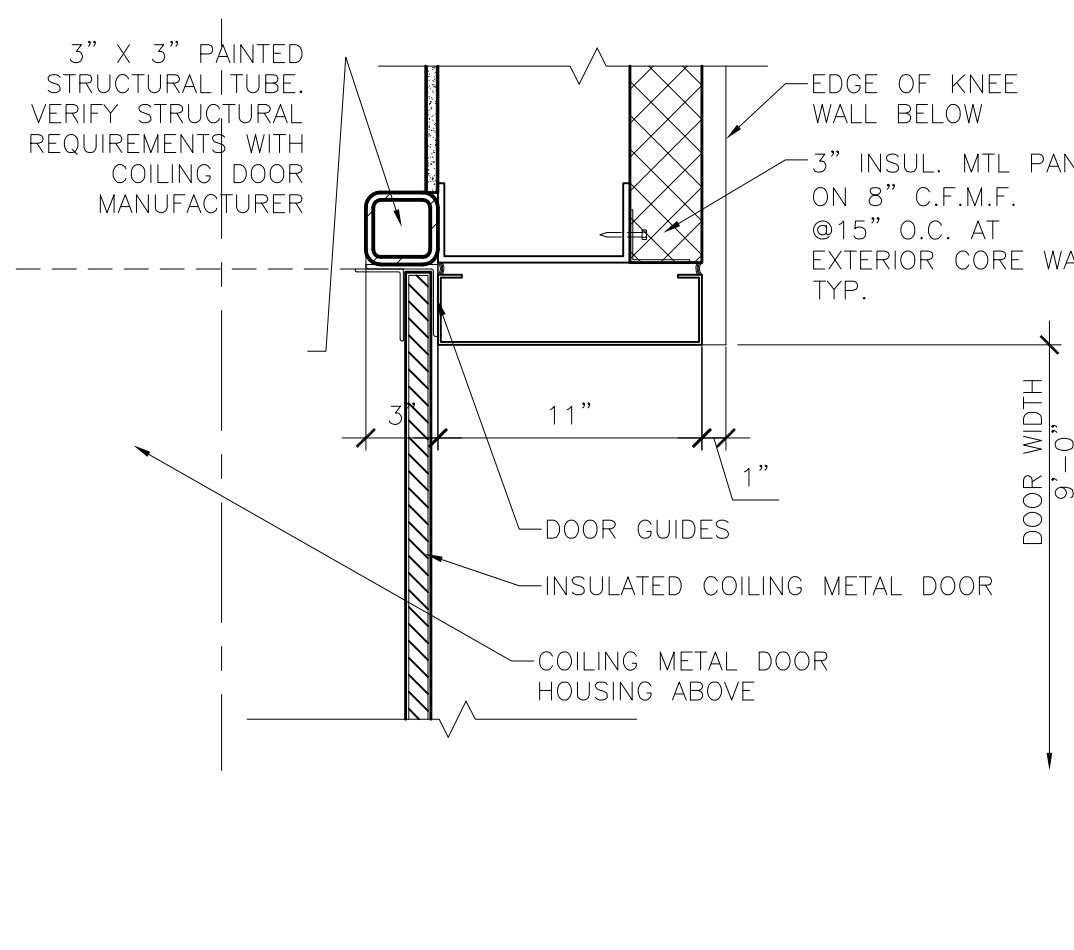
7 TYP. SILL @ EXT. TUG TUNNEL DOOR  
1 1/2" = 1'-0"



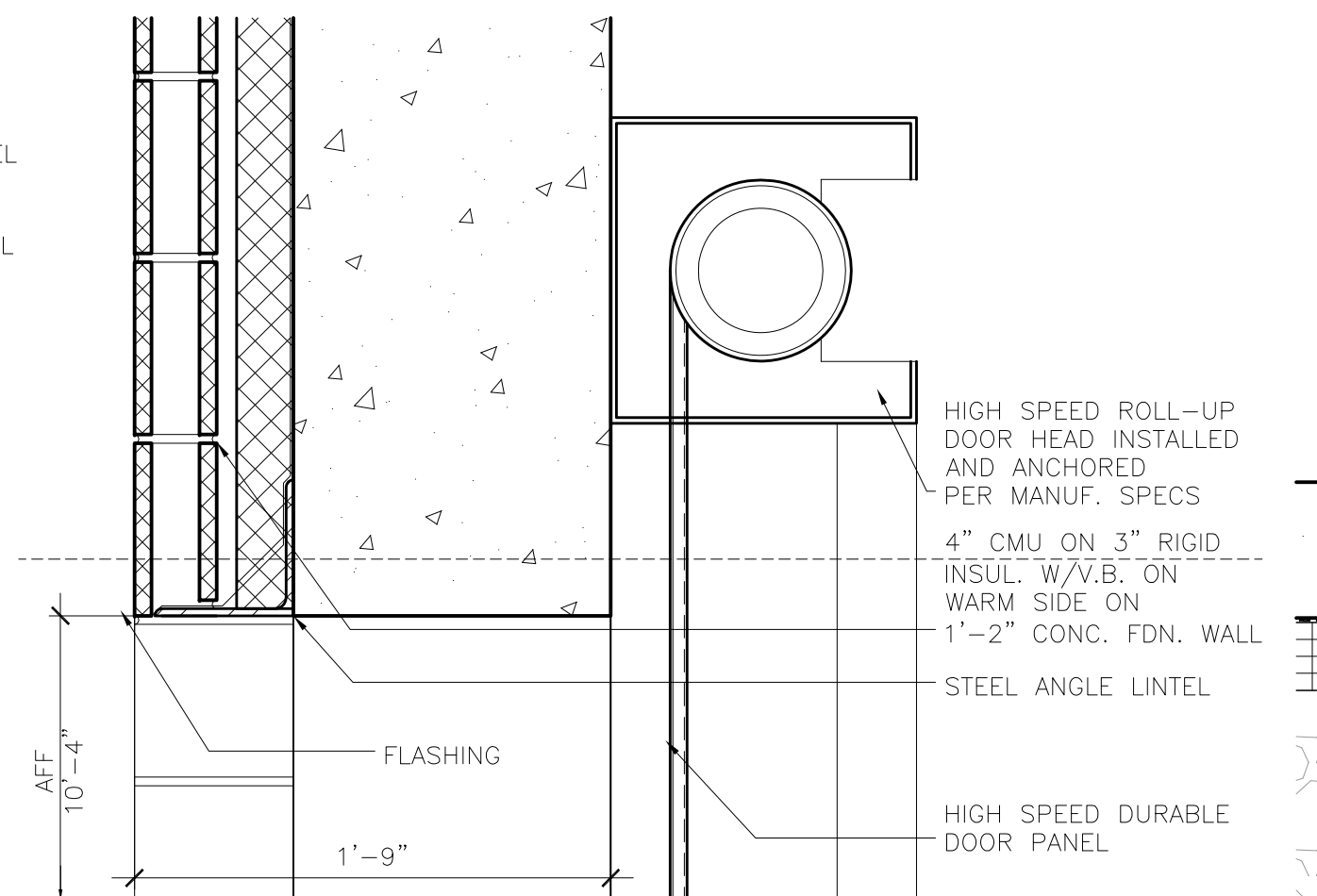
3 TYP. JAMB @ EXT. CORE WALL BASE  
1 1/2" = 1'-0"



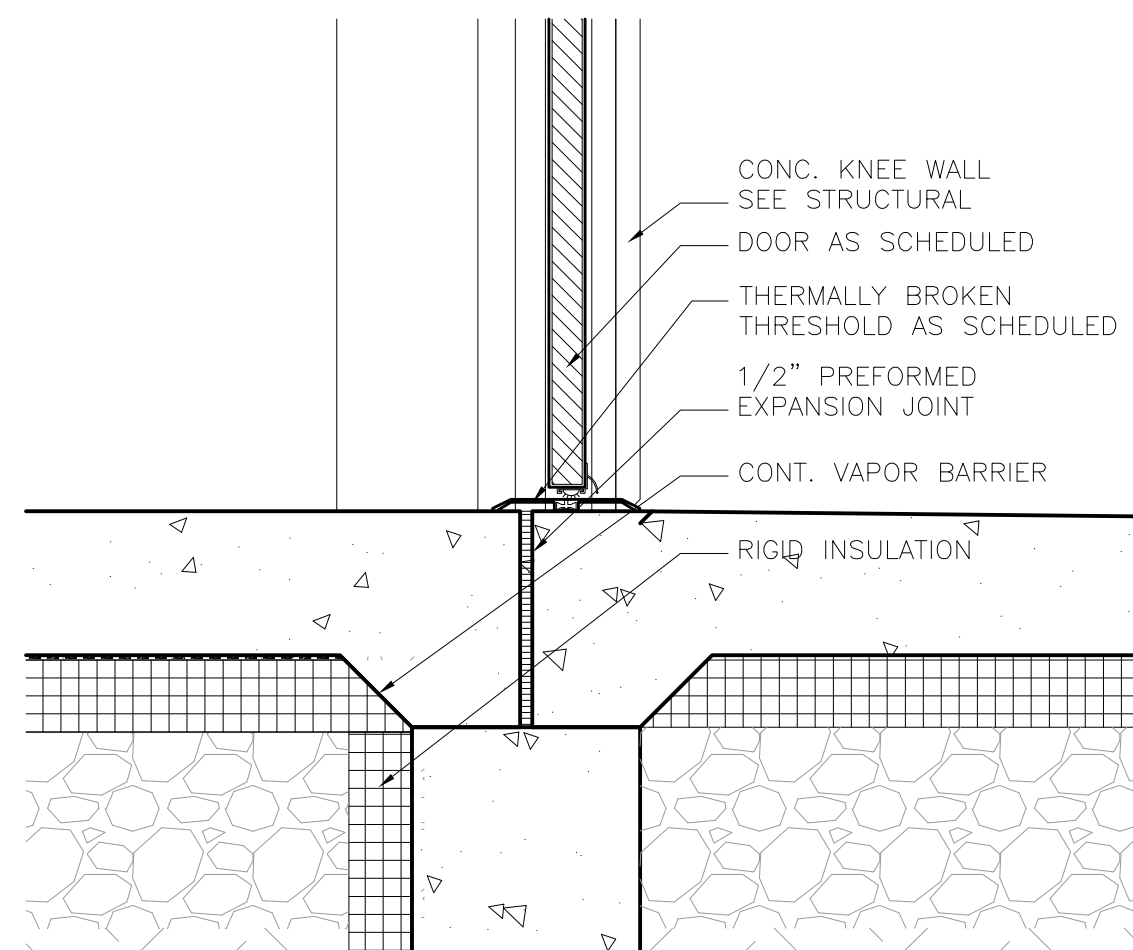
16 SILL @ CHILLER ENCLOSURE DOOR  
1 1/2" = 1'-0"



12 TYP. JAMB @ EXT. COILING DOOR  
1 1/2" = 1'-0"



8 TYP. HEAD @ TUG DRIVE HIGH SPEED O.H. DOOR  
1 1/2" = 1'-0"



4 TYP. SILL @ EXT. CORE  
1 1/2" = 1'-0"

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Structural Engineers:  
**MBJ CONSULTING ENG.**  
501 Lake Avenue South, Suite 300, Duluth MN 55802  
TEL: (218) 722-1056 / FAX: (218) 722-9306  
  
M/E/P/F Engineers:  
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TEL: (312) 201-7406 / FAX: (312) 201-0031  
  
Baggage Handling Systems Consultants:  
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101 East Ridge Office Park, Suite 103, Danbury CT 06810  
TEL: (203) 792-3000 / FAX: (203) 792-4900  
  
Landscaping Consultants:  
**APPOLD DESIGN**  
2432 East First Street, Duluth MN 55812  
TEL: (218) 591-5079

**ARCHITECTURAL CERTIFICATION**  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip  
Signature:

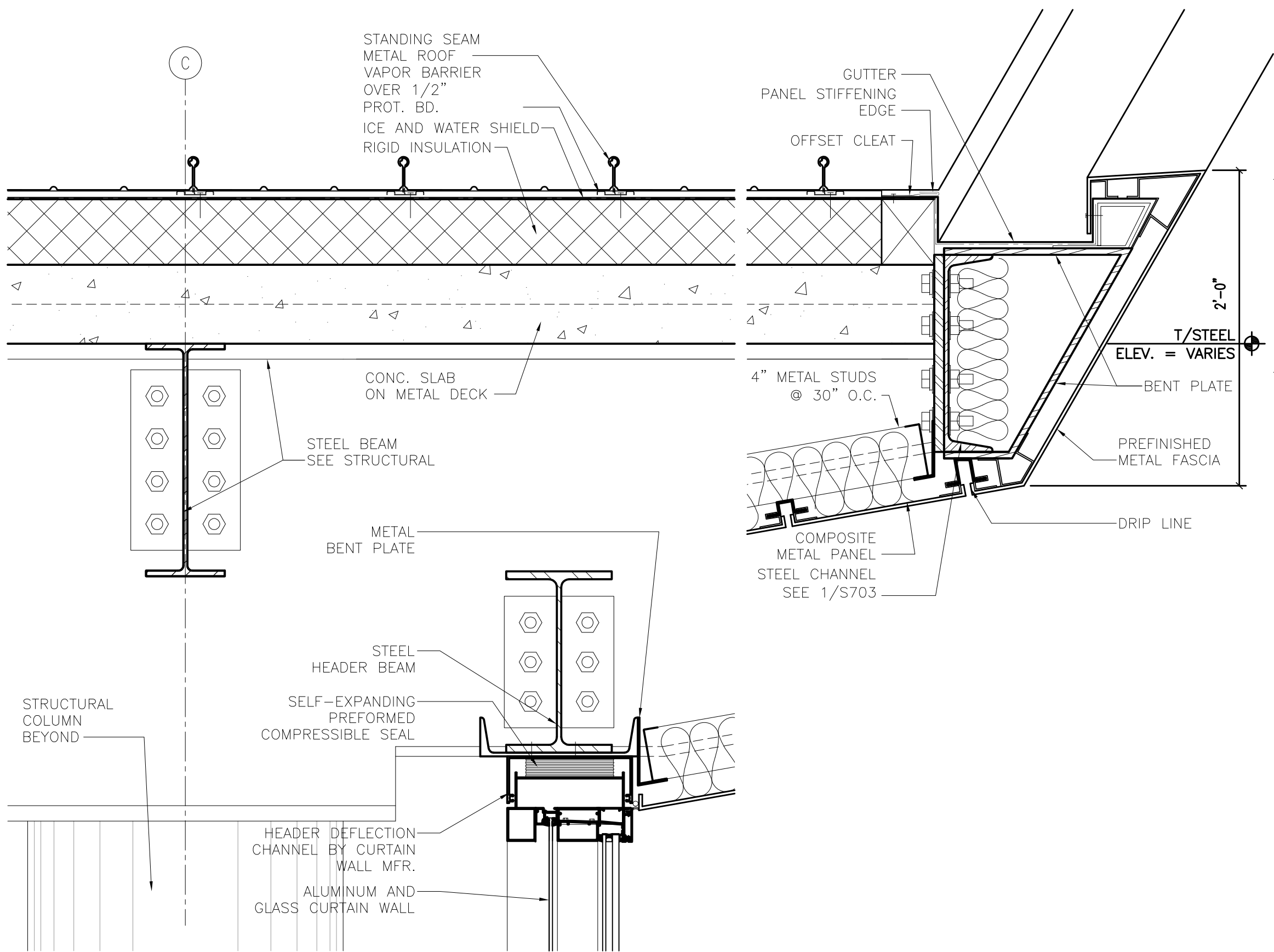
Date: 06-03-10 Reg. No.: 46001

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

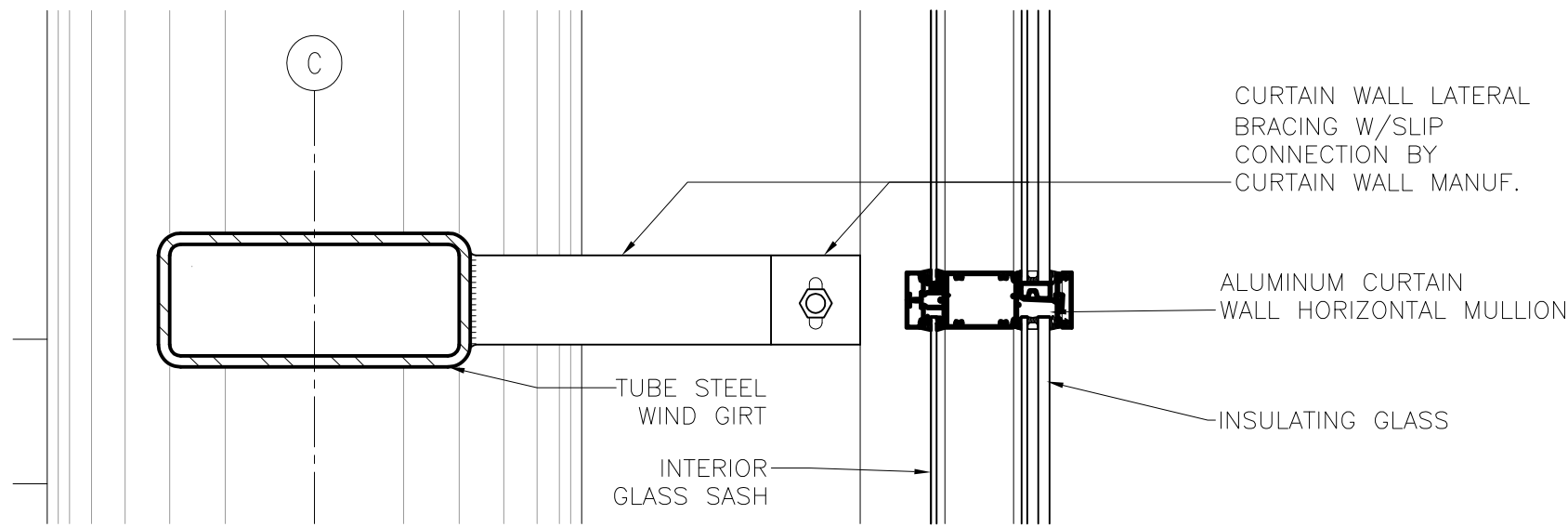
DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC  
AEP PROJECT NUMBER  
213-1882-091  
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SHEET TITLE  
**DOOR DETAILS**

SHEET NUMBER  
**A702**  
BUILDING PERMIT

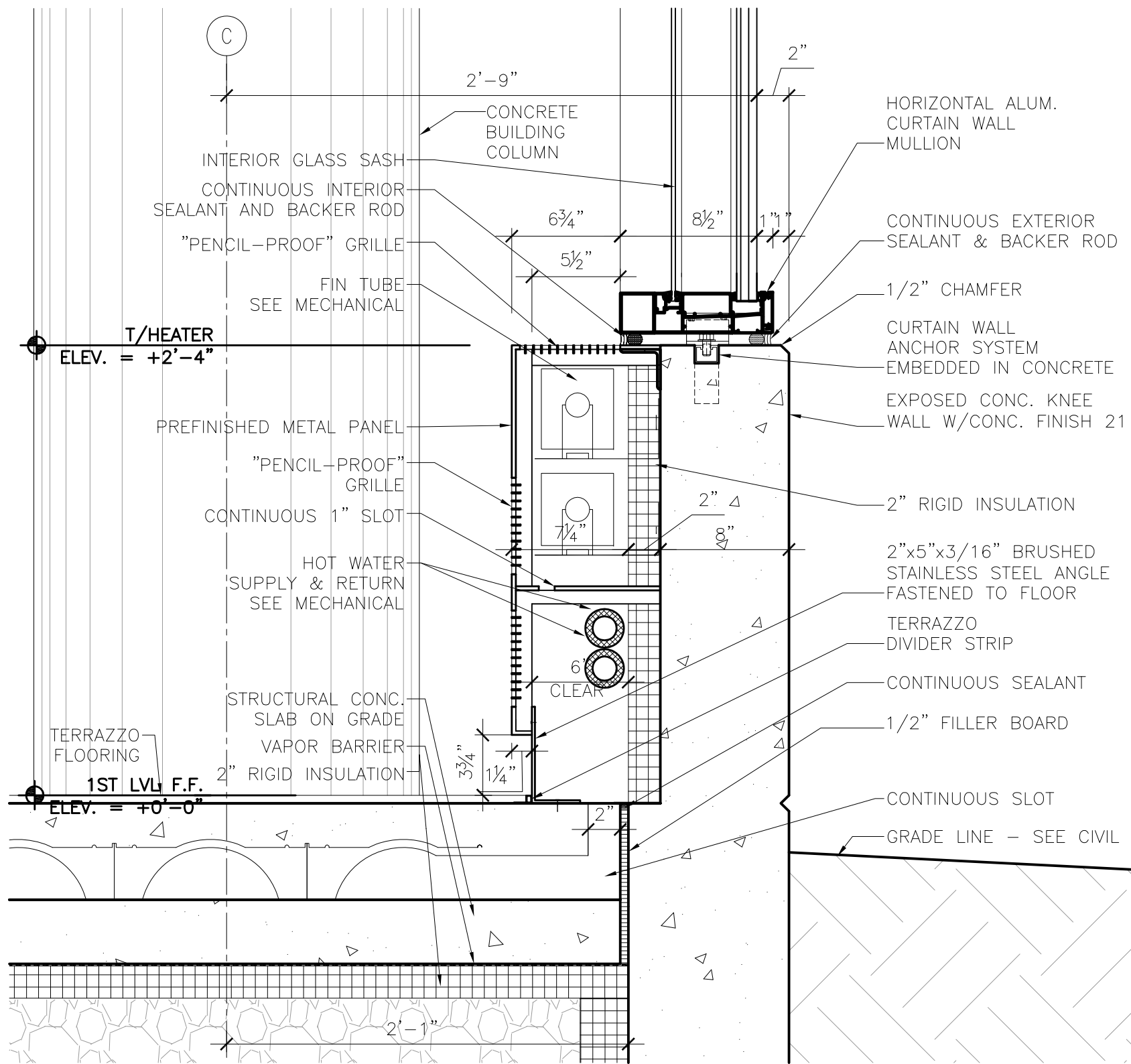




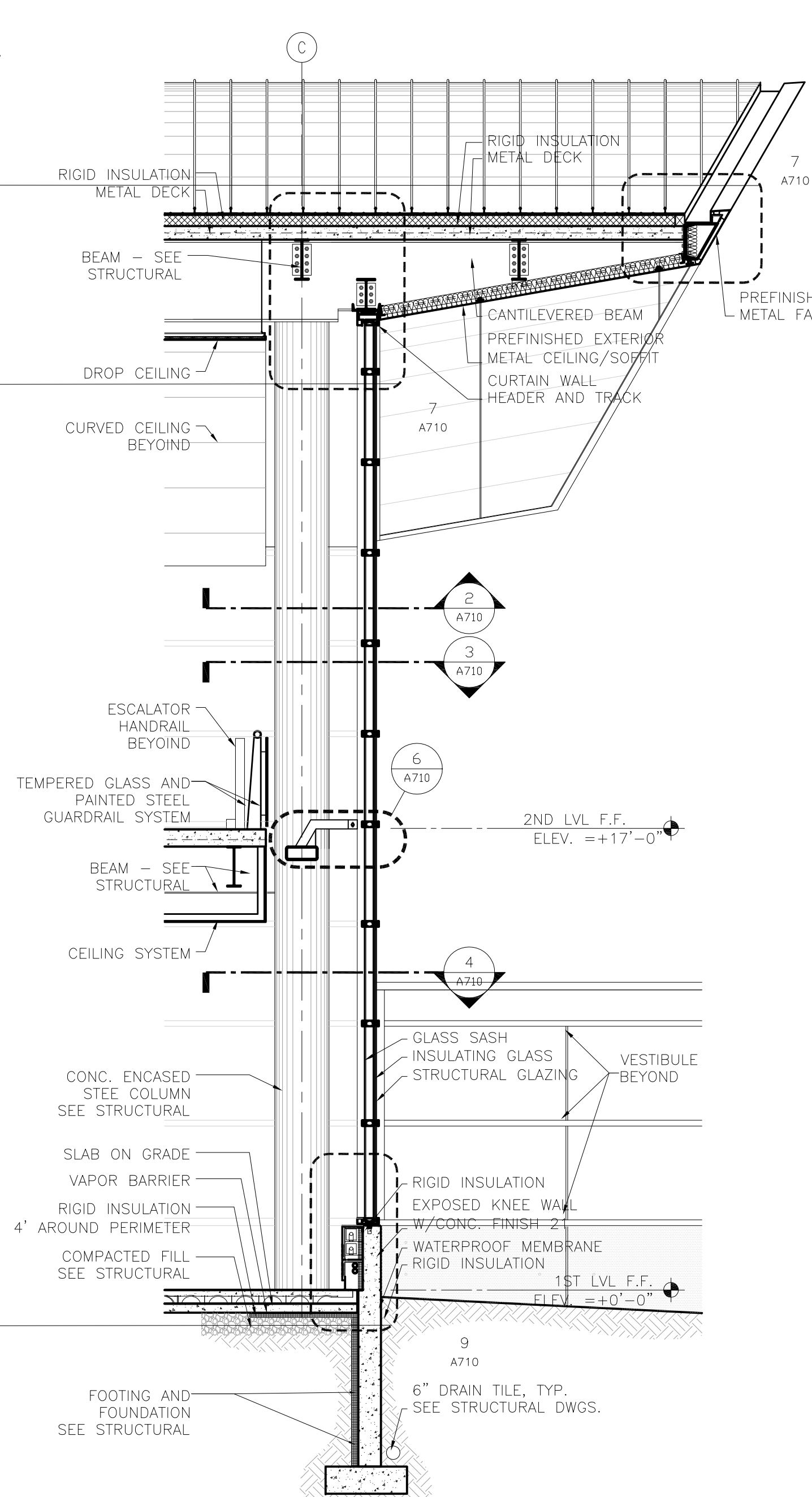
7 CURTAIN WALL HEAD DETAIL  
1-1/2" = 1'-0"



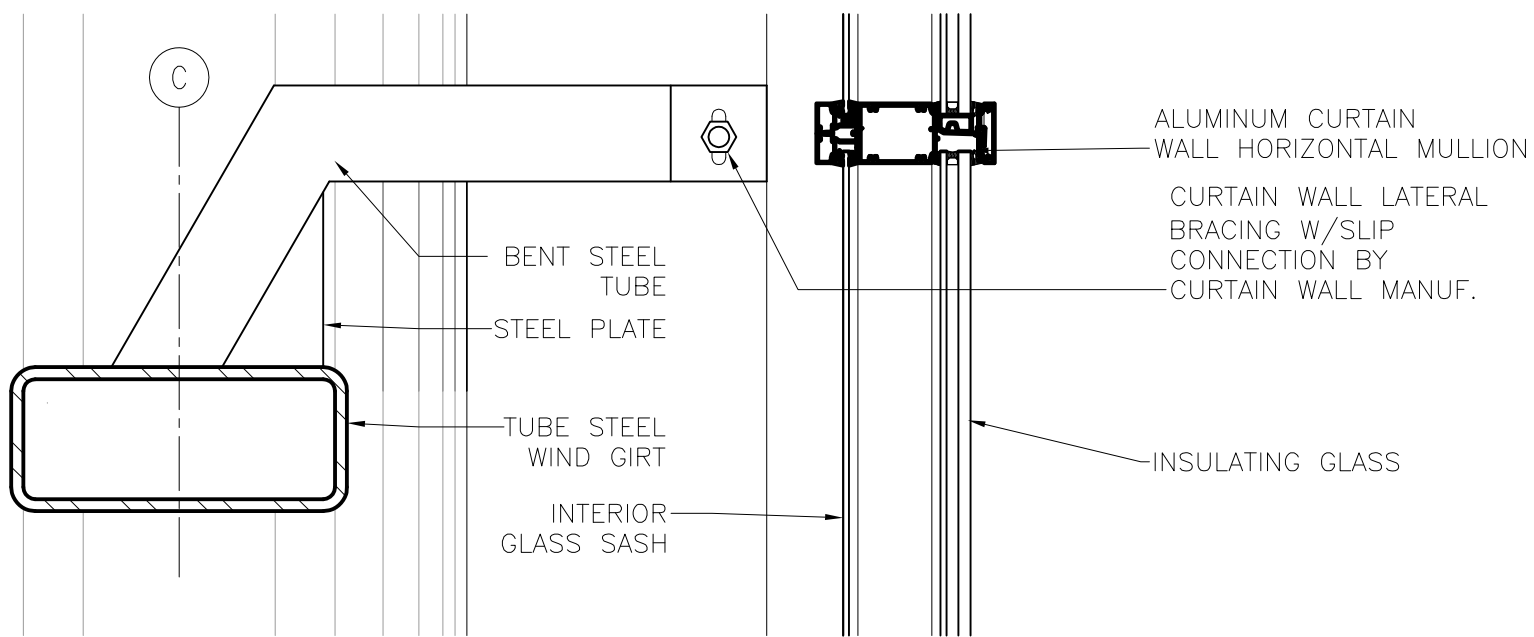
8 CURTAIN WALL WIND BRACE DETAIL - TYP.  
1-1/2" = 1'-0"



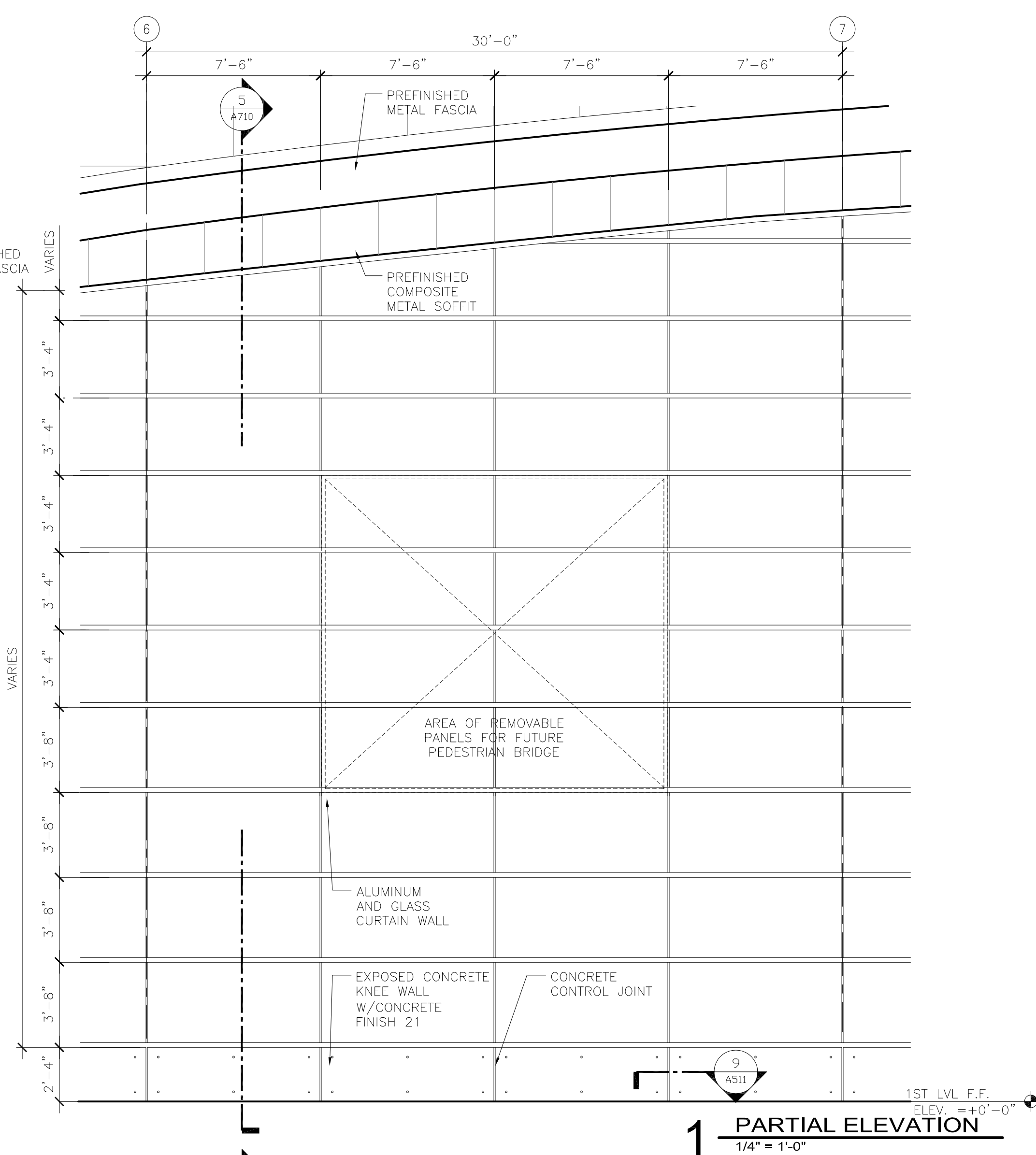
9 CURTAIN WALL SILL DETAIL  
1-1/2" = 1'-0"



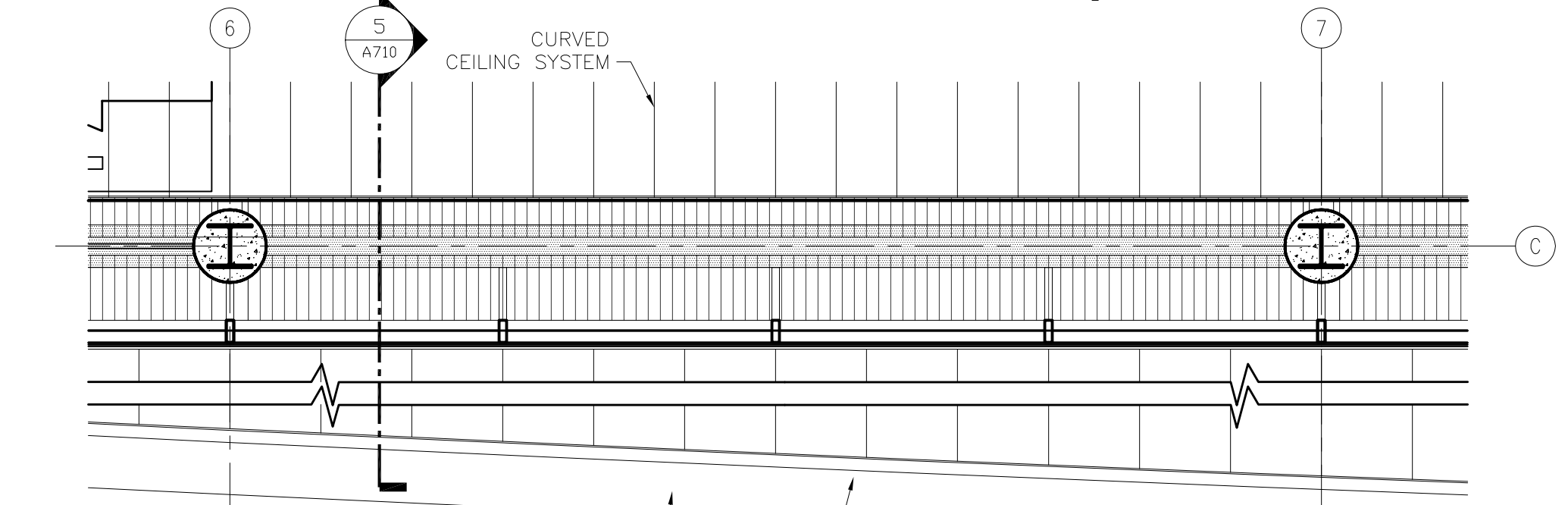
5 WALL SECTION  
1/4" = 1'-0"



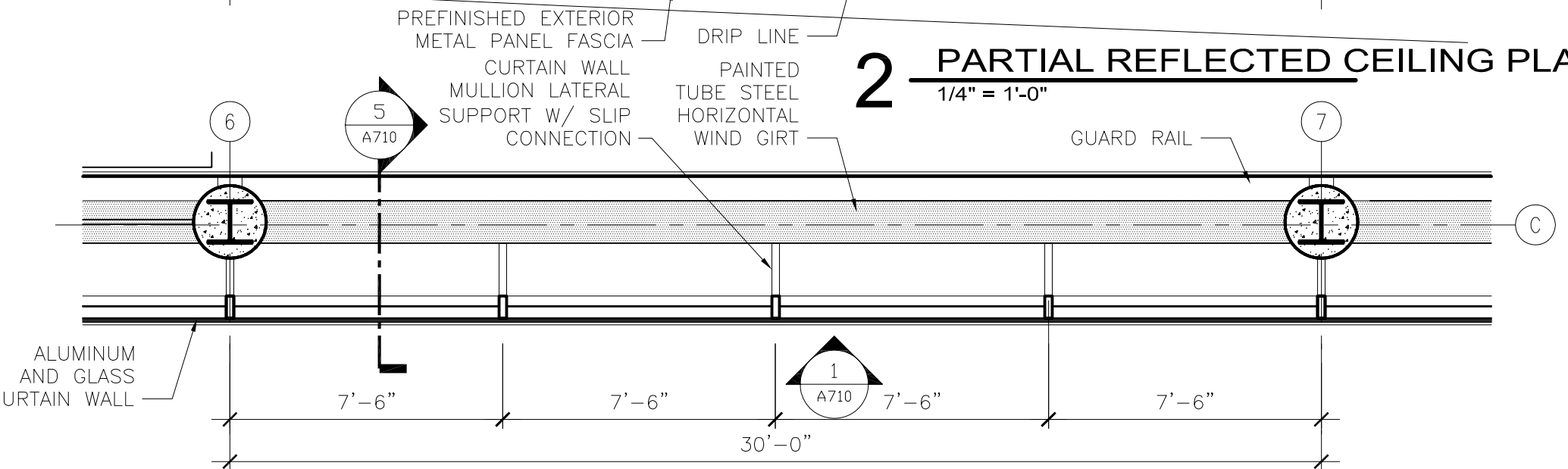
6 WIND BRACE DETAIL  
BETWEEN COL. LINES 6 & 7  
1 1/2" = 1'-0"



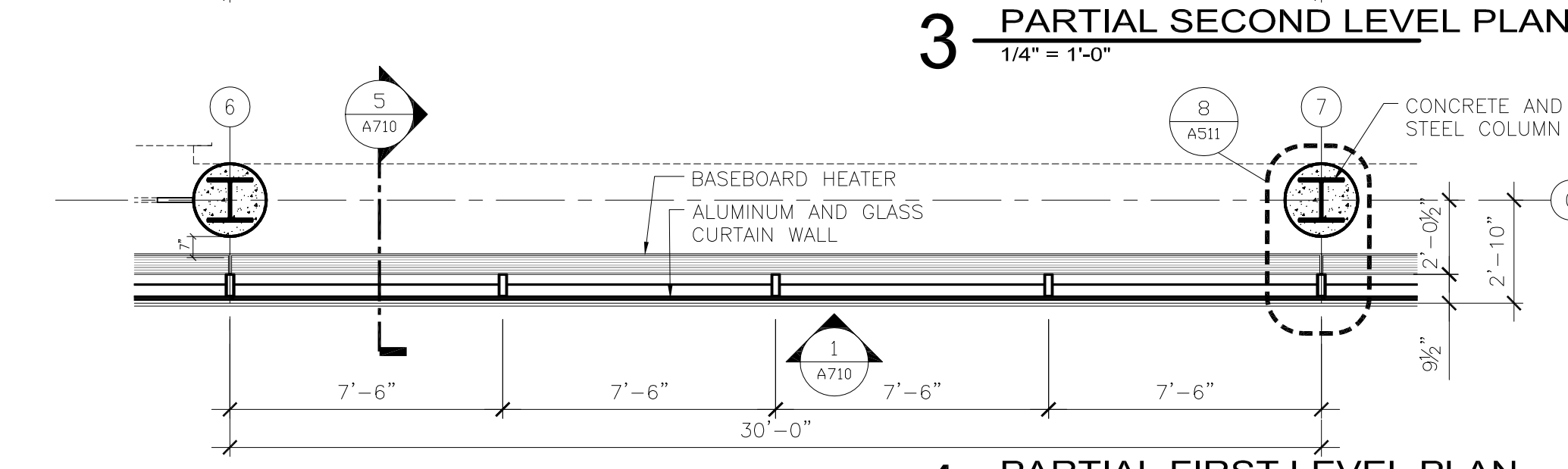
1 PARTIAL ELEVATION  
1/4" = 1'-0"



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"

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TEL: (218) 591-5079

ARCHITECTURAL CERTIFICATION  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.  
Print Name: Mark Ip  
Signature:   
Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC  
AEP PROJECT NUMBER  
213-1882-091  
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SHEET TITLE  
EXTERIOR SYSTEMS  
LANDSIDE  
CURTAIN WALL

SHEET NUMBER  
A710  
BUILDING PERMIT

Drawing: t:\P\2131882\091 Duluth New Terminal\Cad\A\Sheets\A710 Exterior System Sheet - Landside Curtain Wall.dwg Plotted on: 8/16/2010 8:35 AM Plotted by: lp, Mark

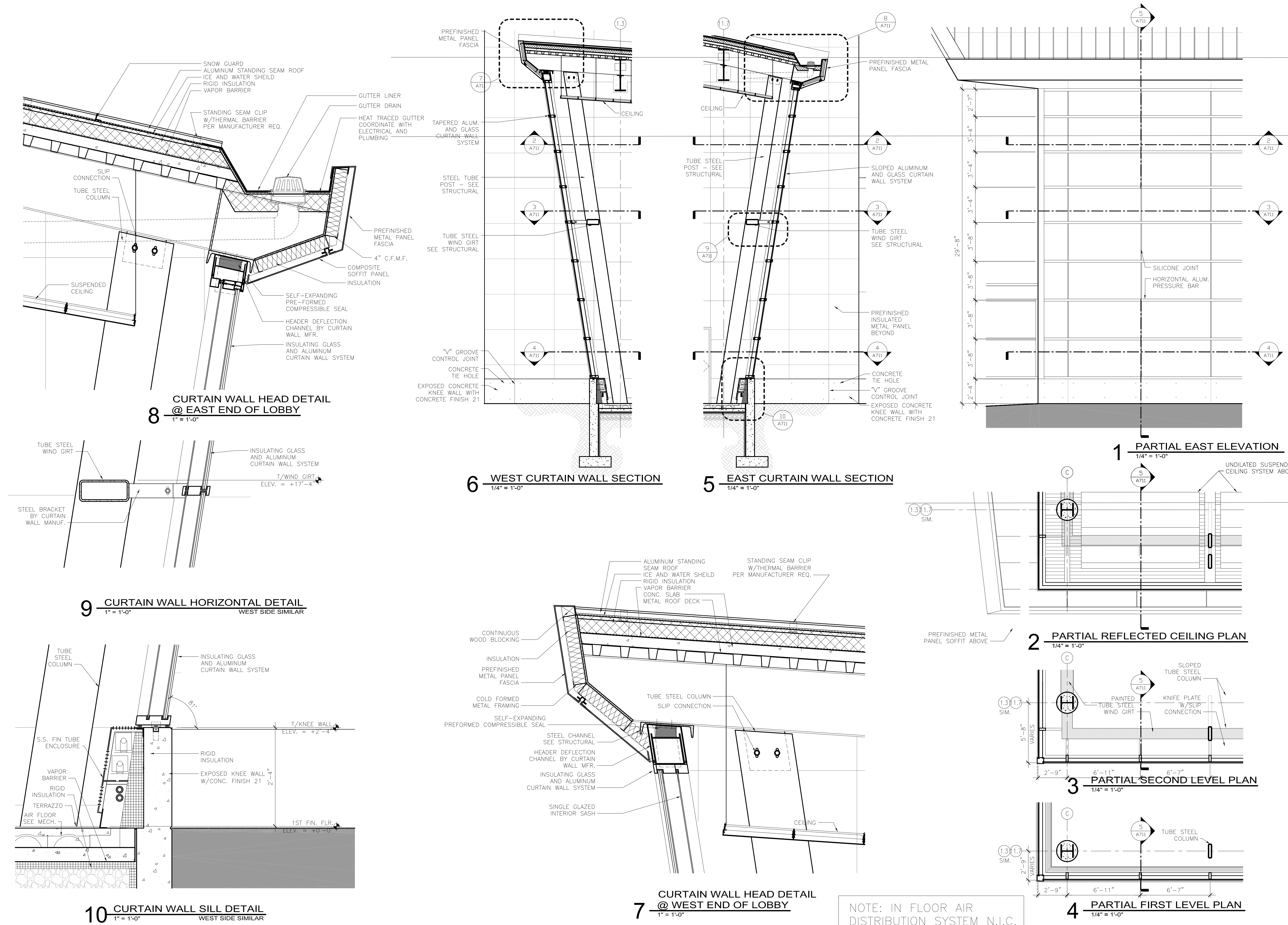


REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
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**SHEET TITLE**  
**EXTERIOR SYSTEMS  
LANDSIDE  
CURTAIN WALL**

**SHEET NUMBER**  
**A711**  
**BUILDING  
PERMIT**





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Landscape Consultant

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Print Name: Mark Ip

Signature: \_\_\_\_\_

Date: 06-03-10      Reg. No.: 4600

## REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

**DATE ISSUED: 08-16-10**

REVIEWED BY: SBS/T

DRAWN BY: MKG/M

DESIGNED BY: SBS/T

AEP PROJECT NUMBER

213-1882-091

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**SHEET TITLE**

## EXTERIOR SYSTEMS AIRSIDE CURTAIN WALL

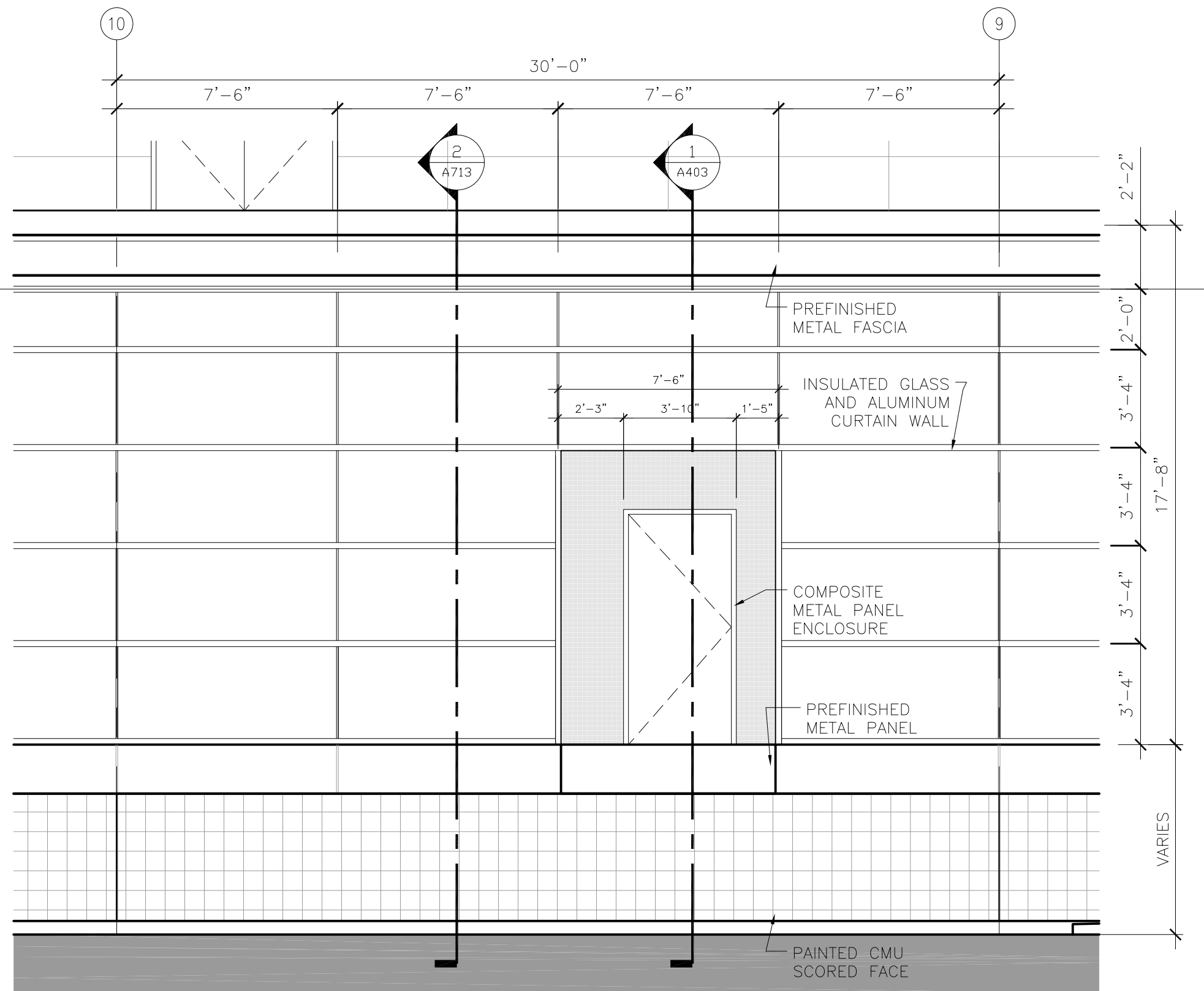
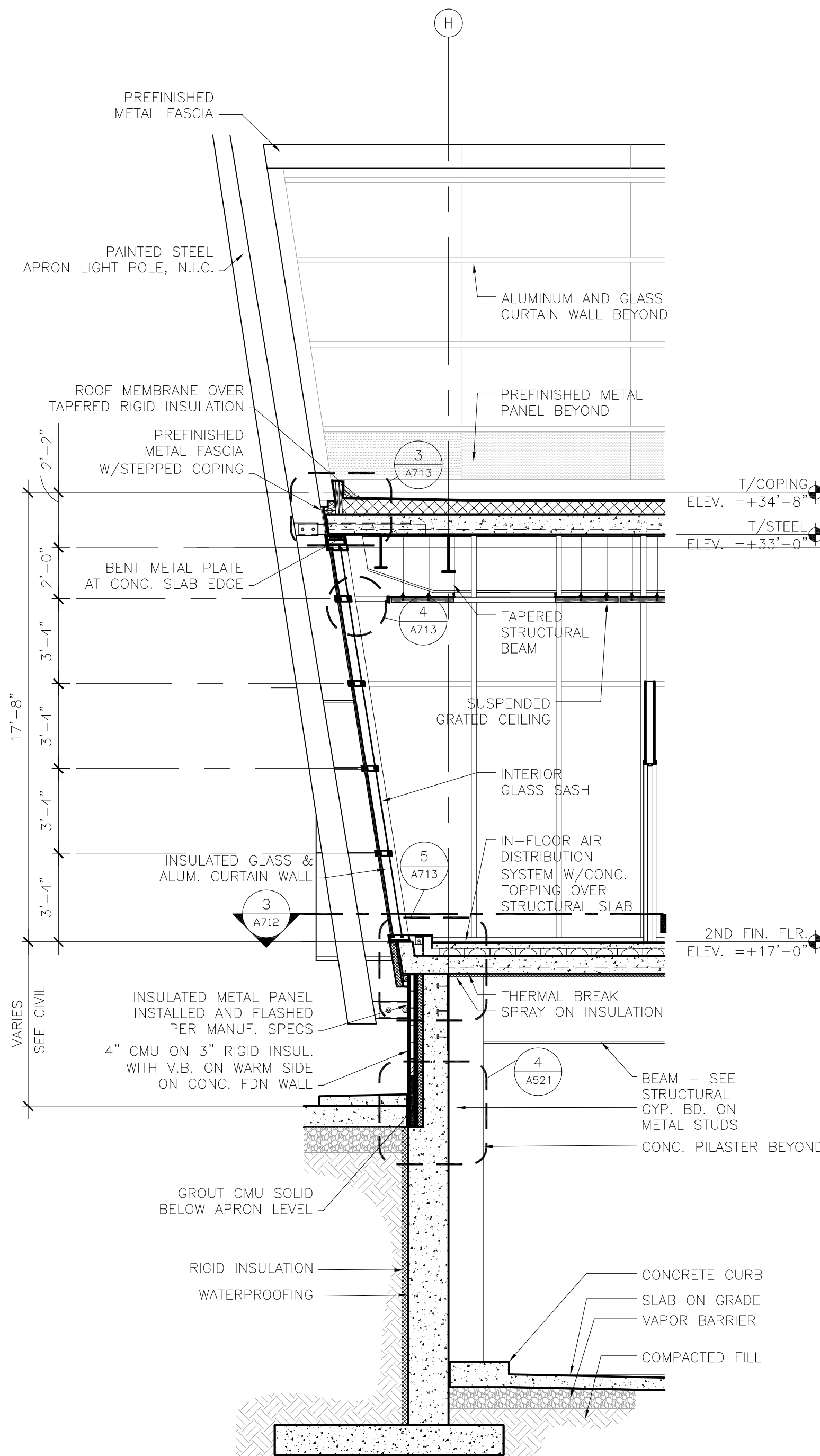
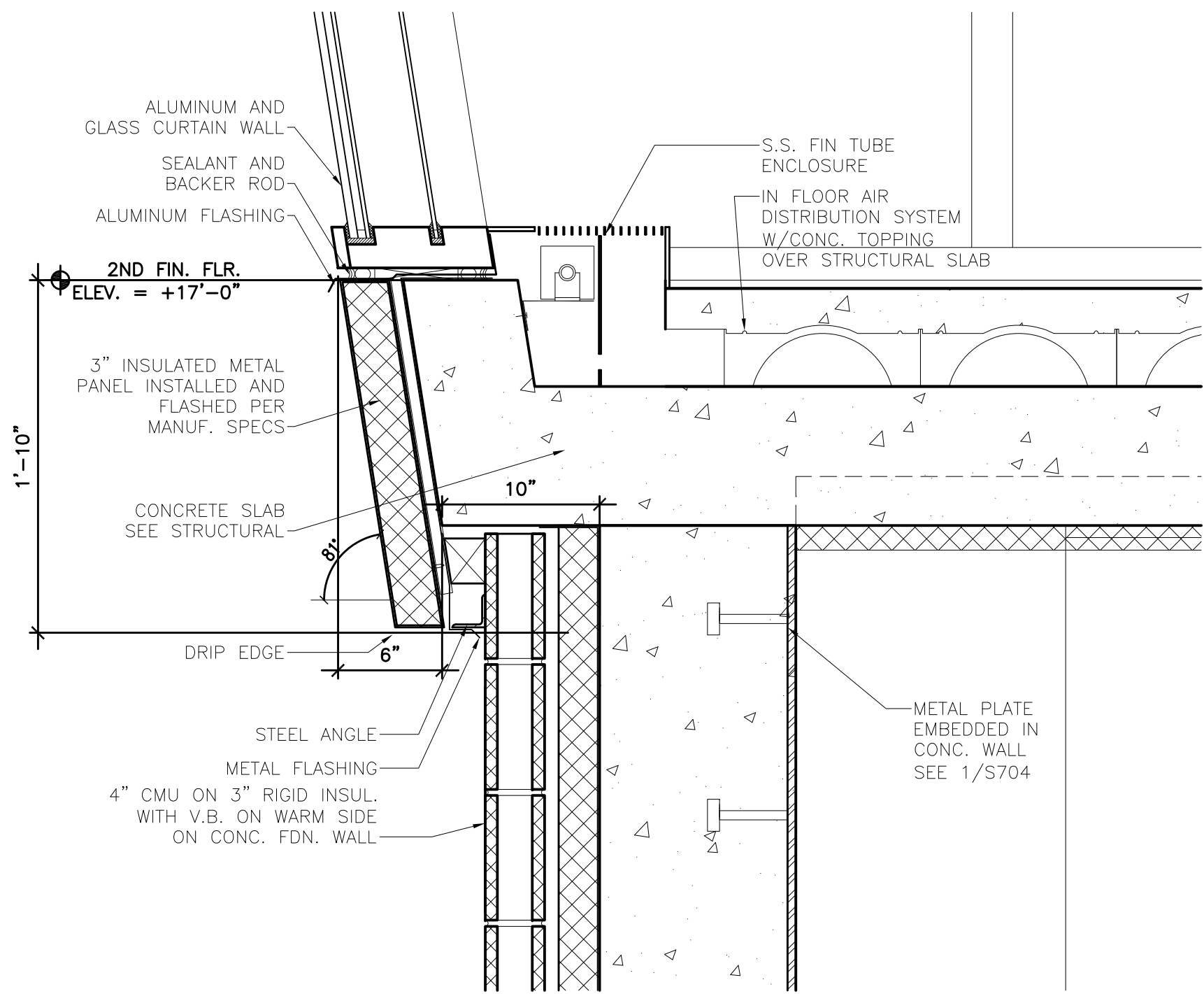
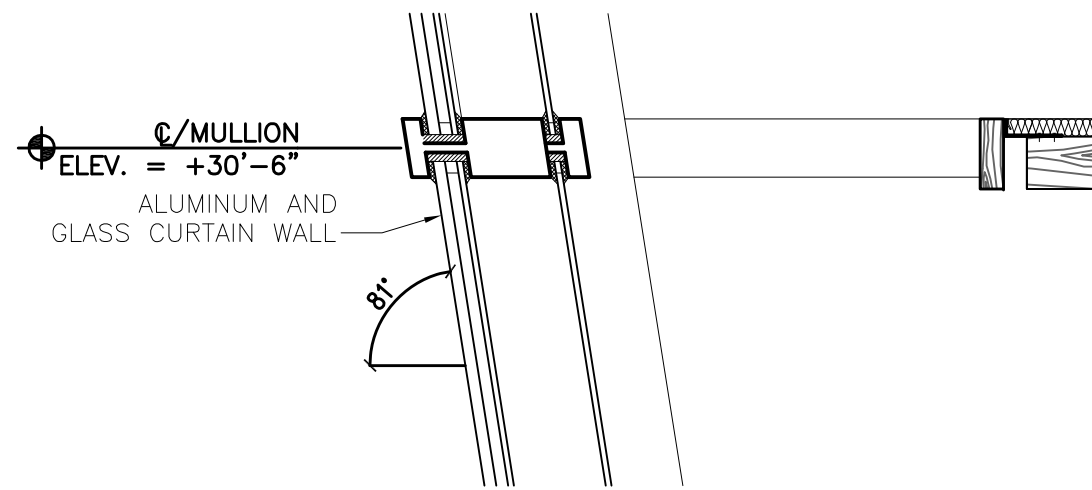
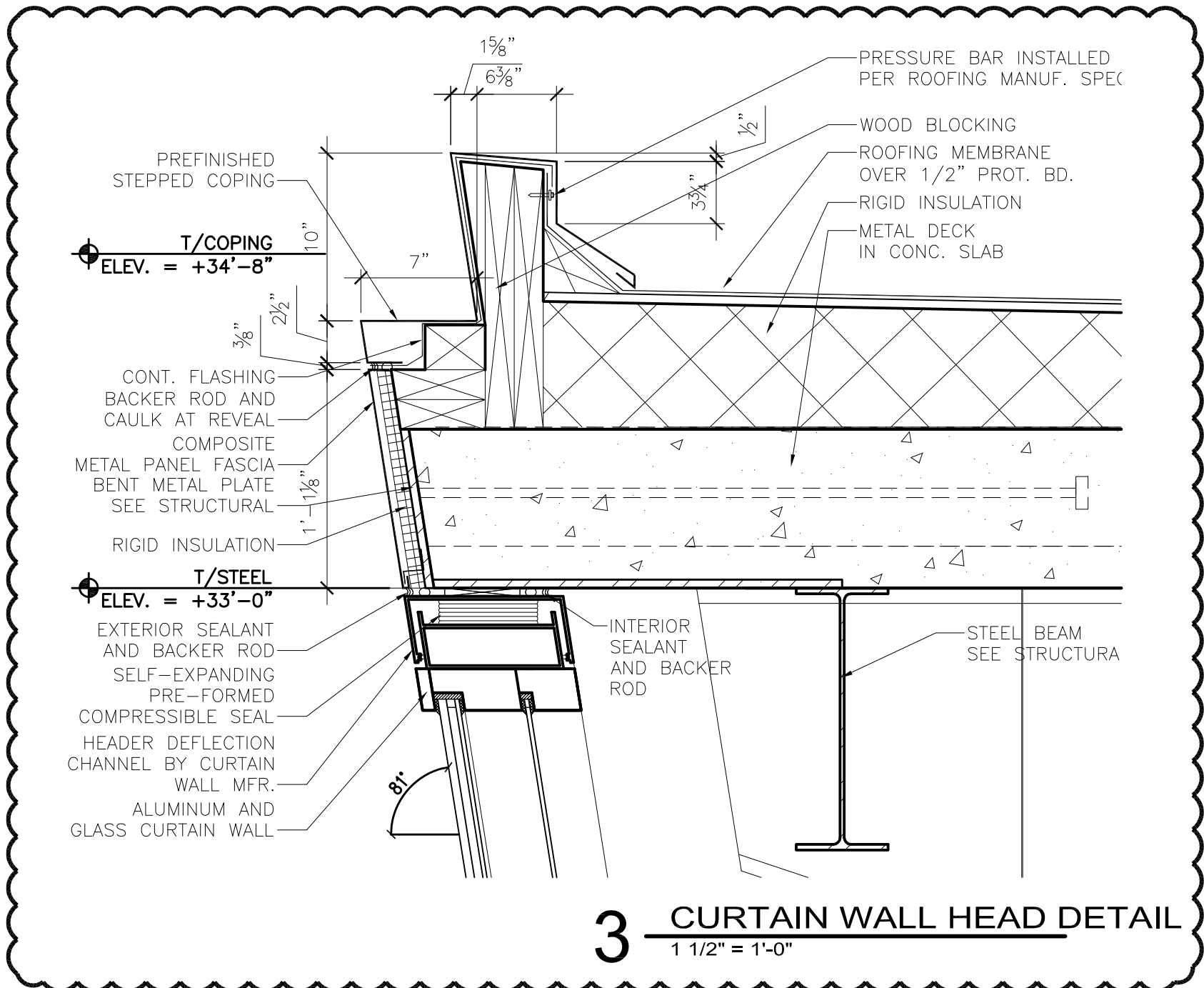
**SHEET NUMBER**

# A712

# BUILDING PERMIT



NOTE: IN FLOOR AIR  
DISTRIBUTION SYSTEM N.I.C.



NOTE: IN FLOOR AIR  
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	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

**EXTERIOR SYSTEMS  
AIRSIDE  
CURTAIN WALL**

SHEET NUMBER

**A713**

**BUILDING  
PERMIT**



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Date: 06-03-10 Reg. No.: 46001

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DATE ISSUED: 08-16-10

REVIEWED BY: SBS/TC

DRAWN BY: MKG/MI

DESIGNED BY: SBS/TC

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

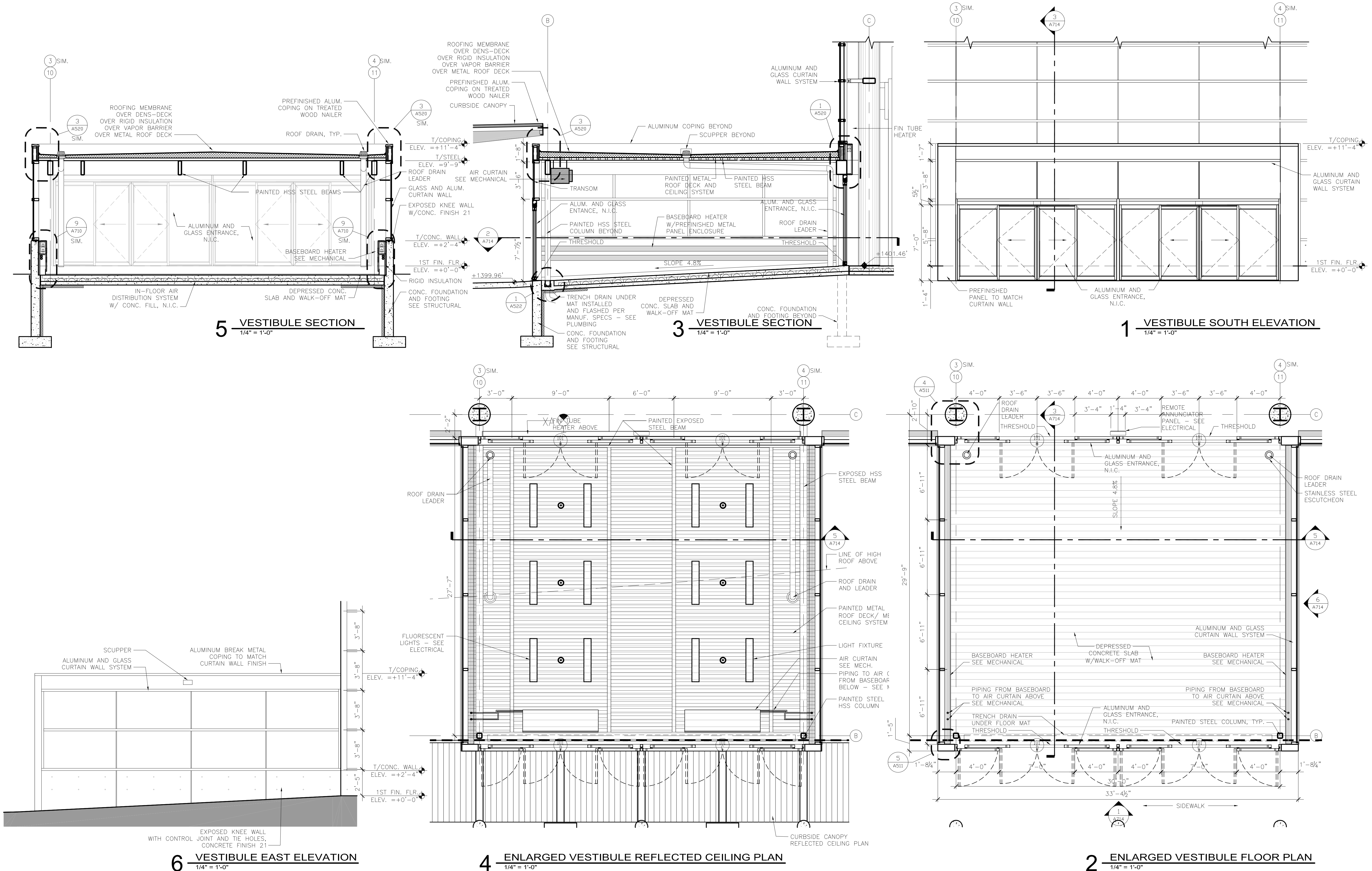
© 2010 REYNOLDS, SMITH AND HILLS INC.

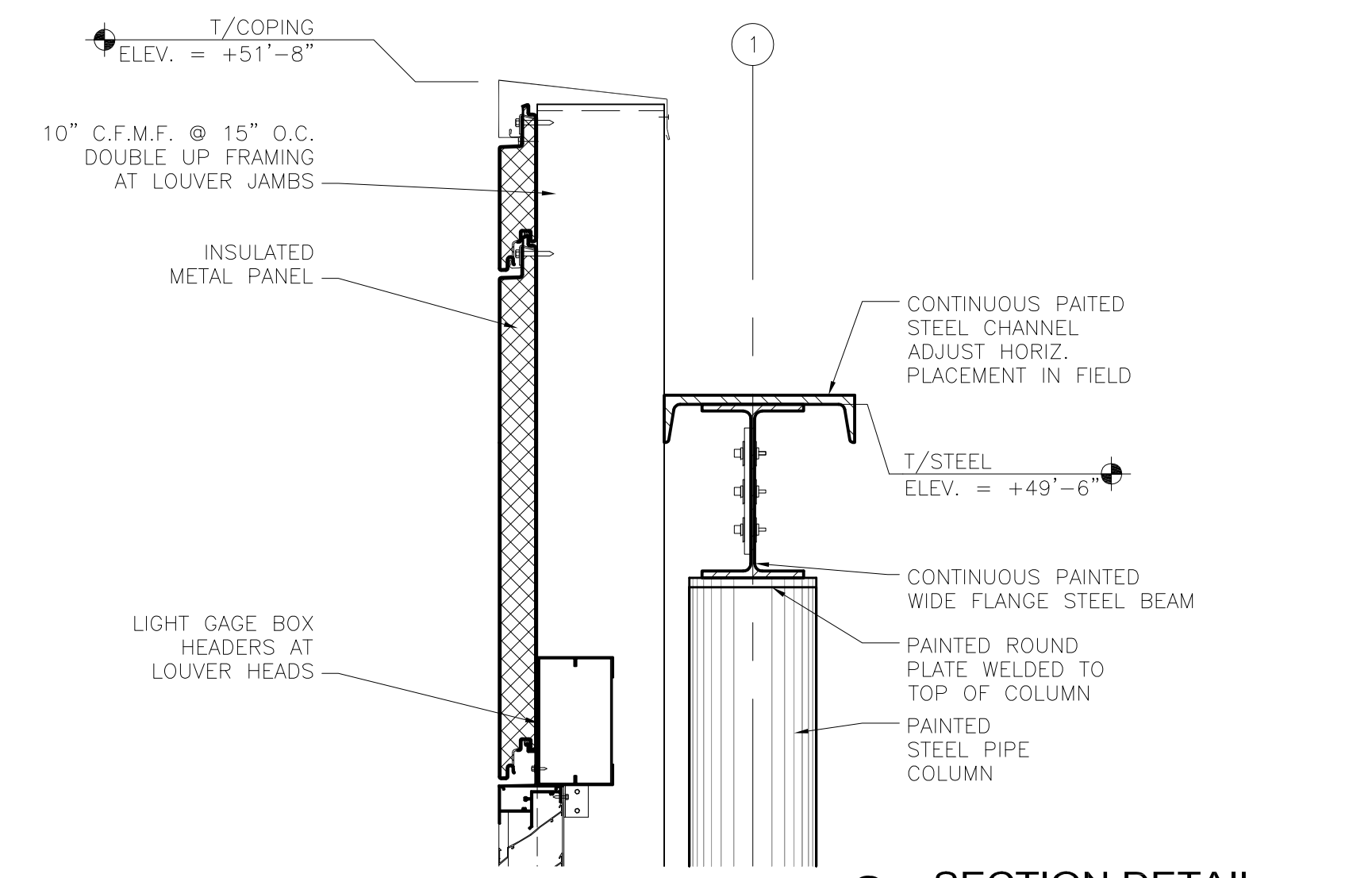
**SHEET TITLE**  
**EXTERIOR SYSTEMS  
ENTRY VESTIBULE**

**SHEET NUMBER**

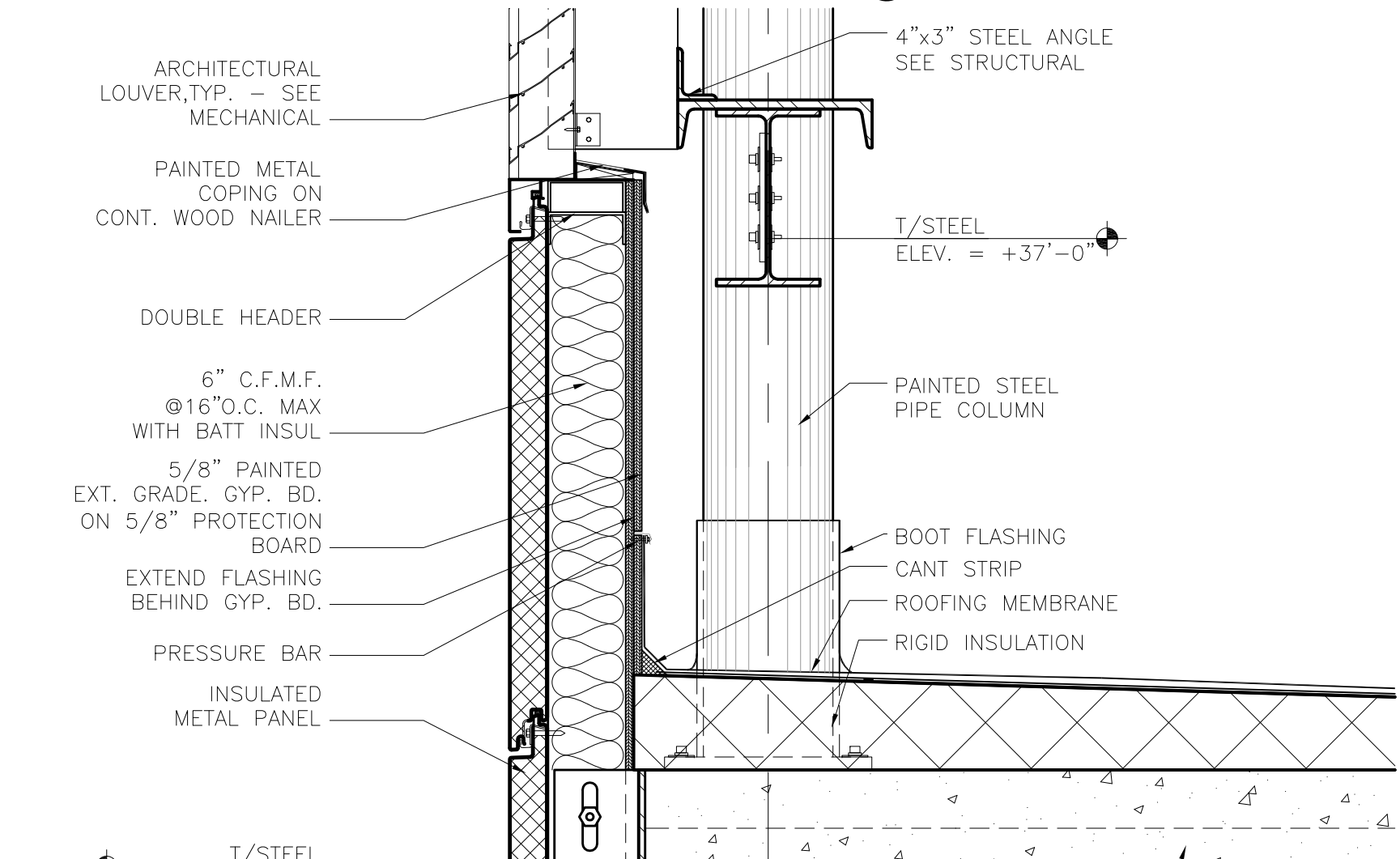
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**BUILDING  
PERMIT**

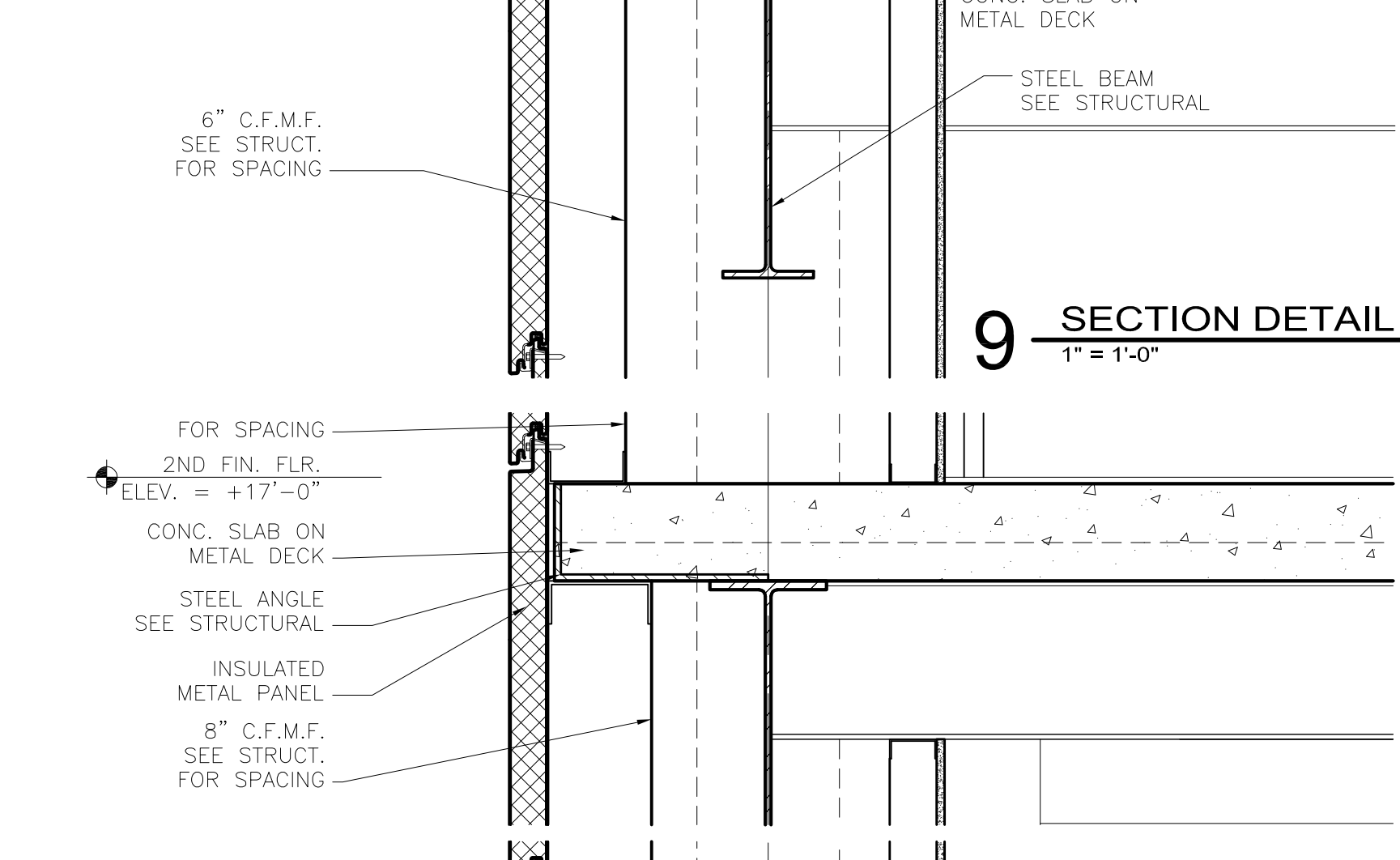




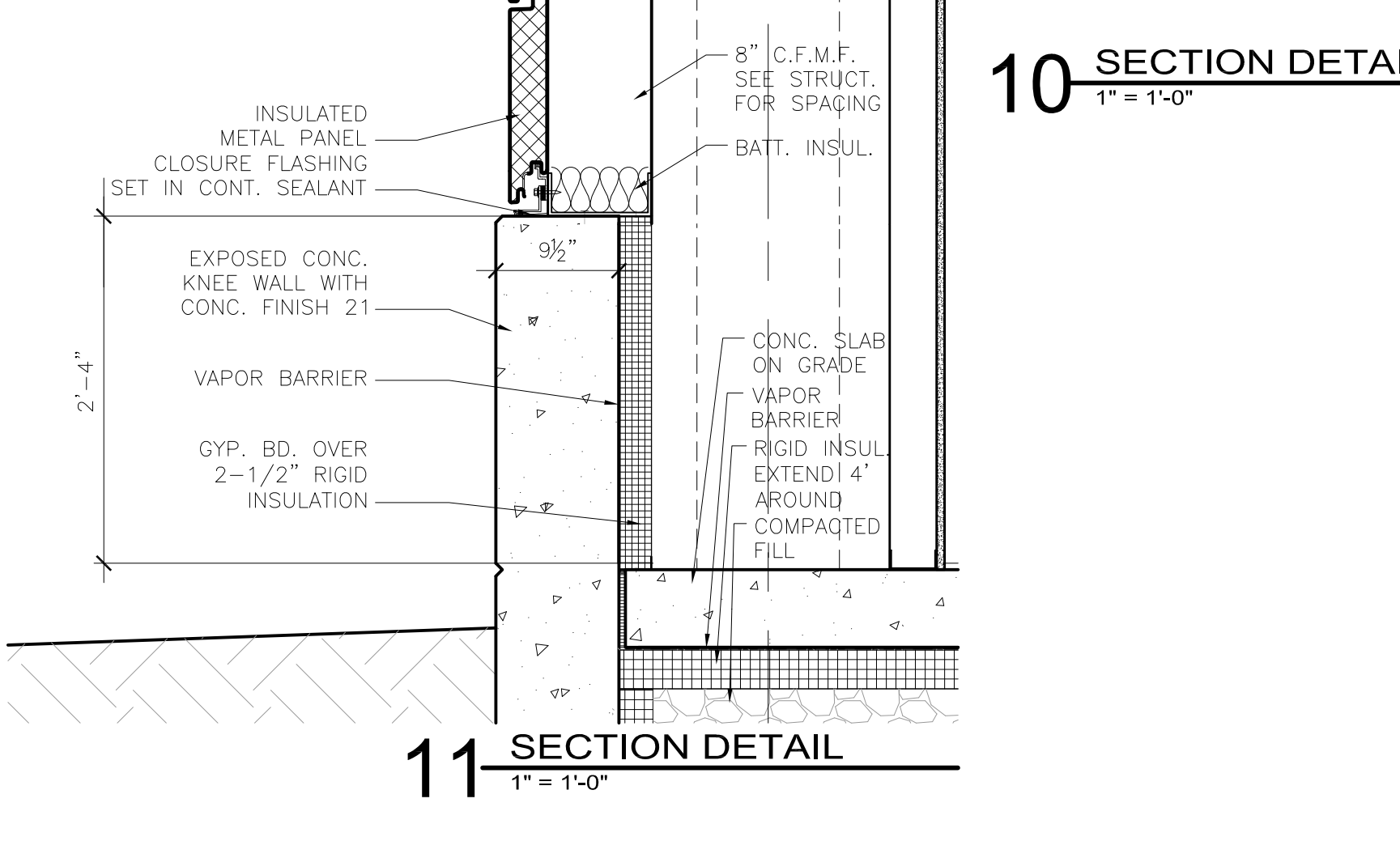
**8 SECTION DETAIL**  
1" = 1'-0"



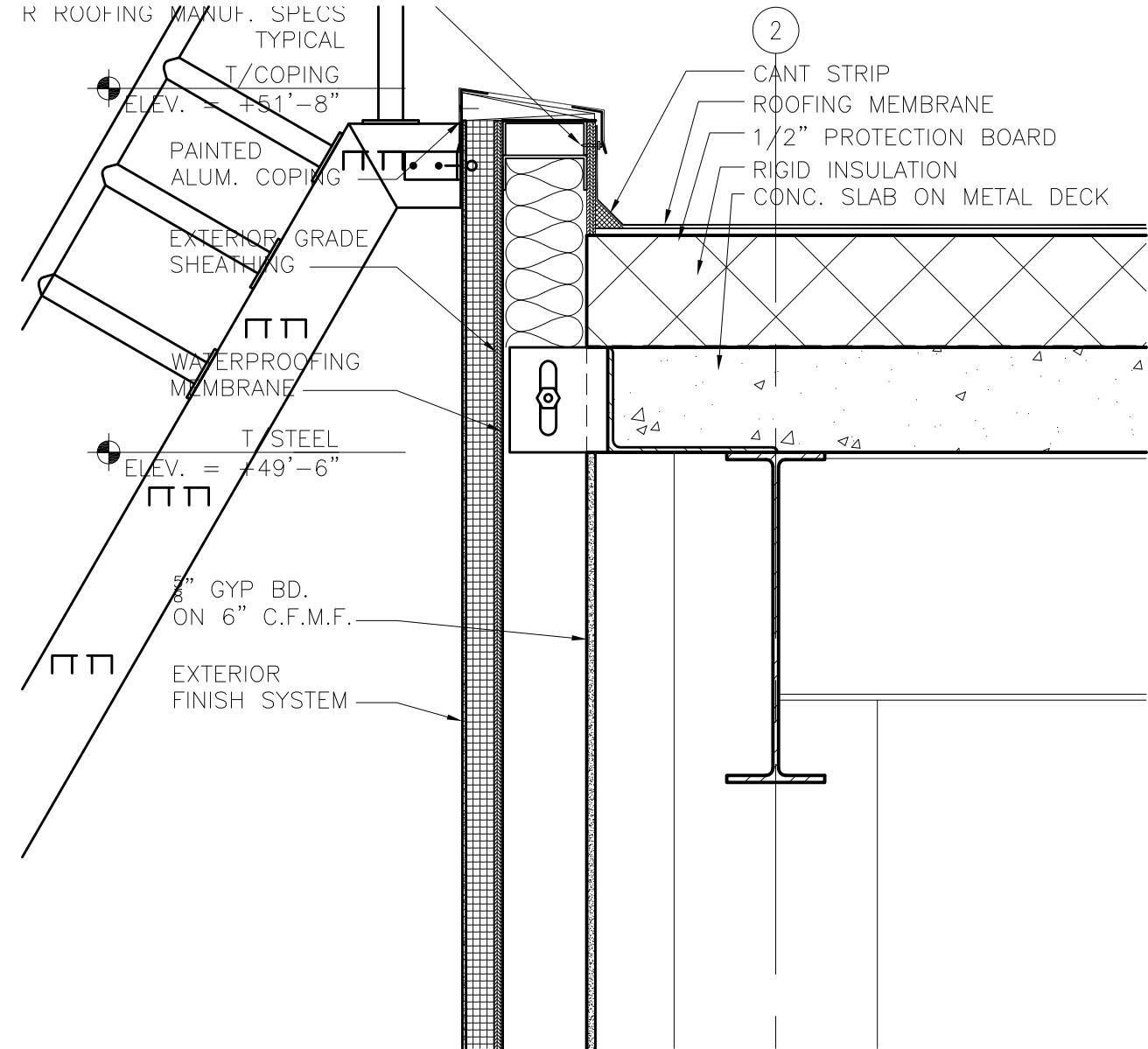
**9 SECTION DETAIL**  
1" = 1'-0"



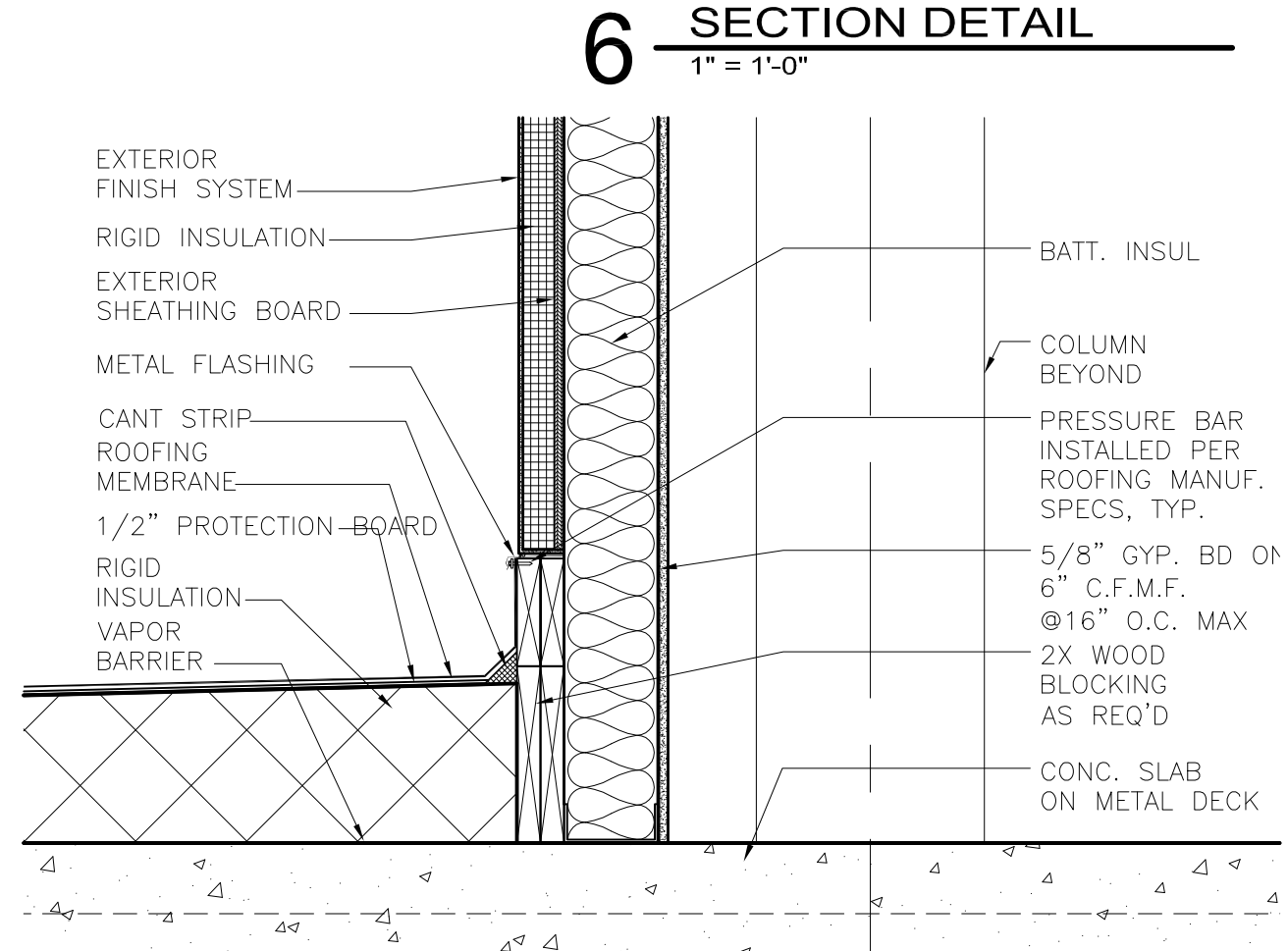
**10 SECTION DETAIL**  
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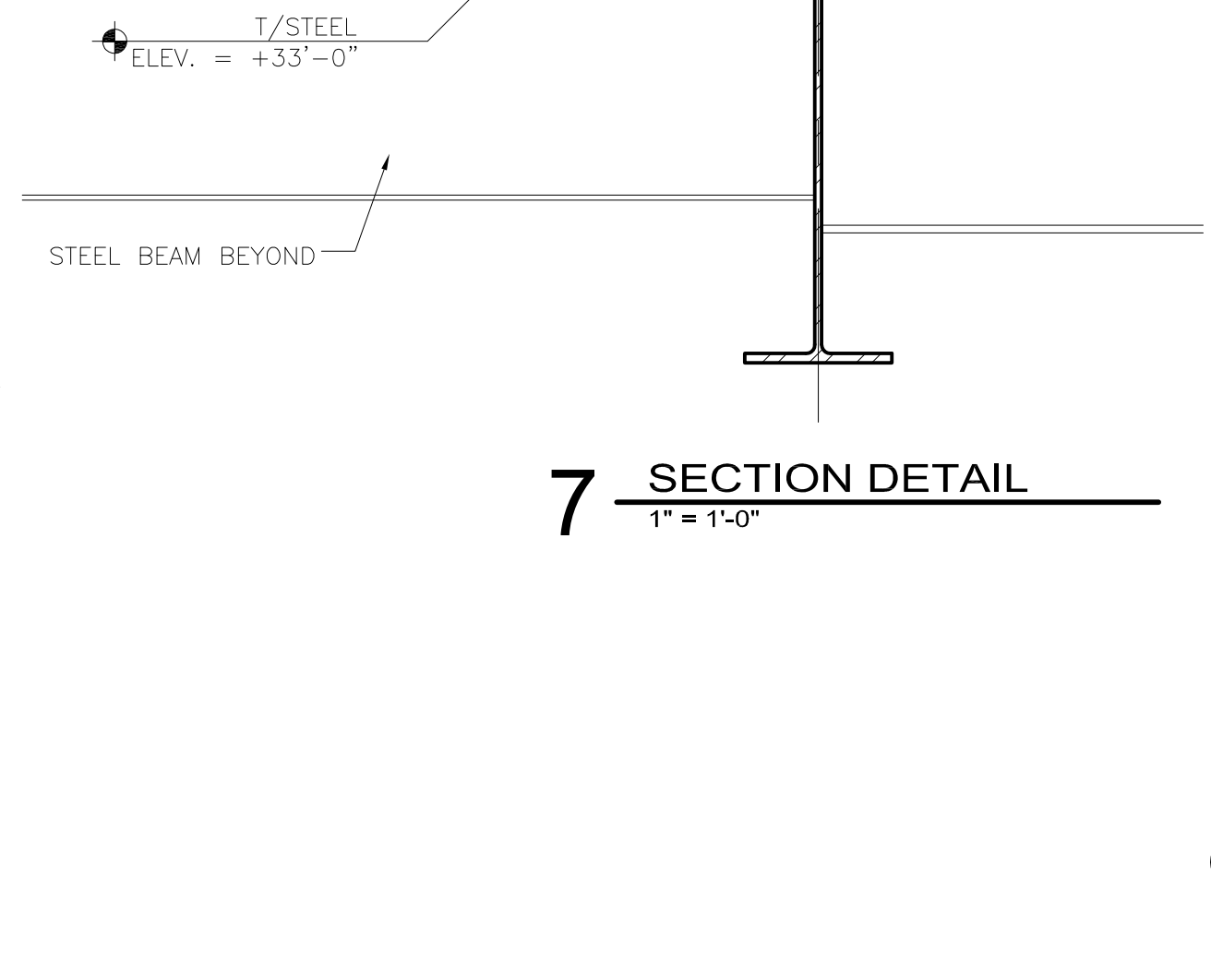
**11 SECTION DETAIL**  
1" = 1'-0"



**6 SECTION DETAIL**  
1" = 1'-0"



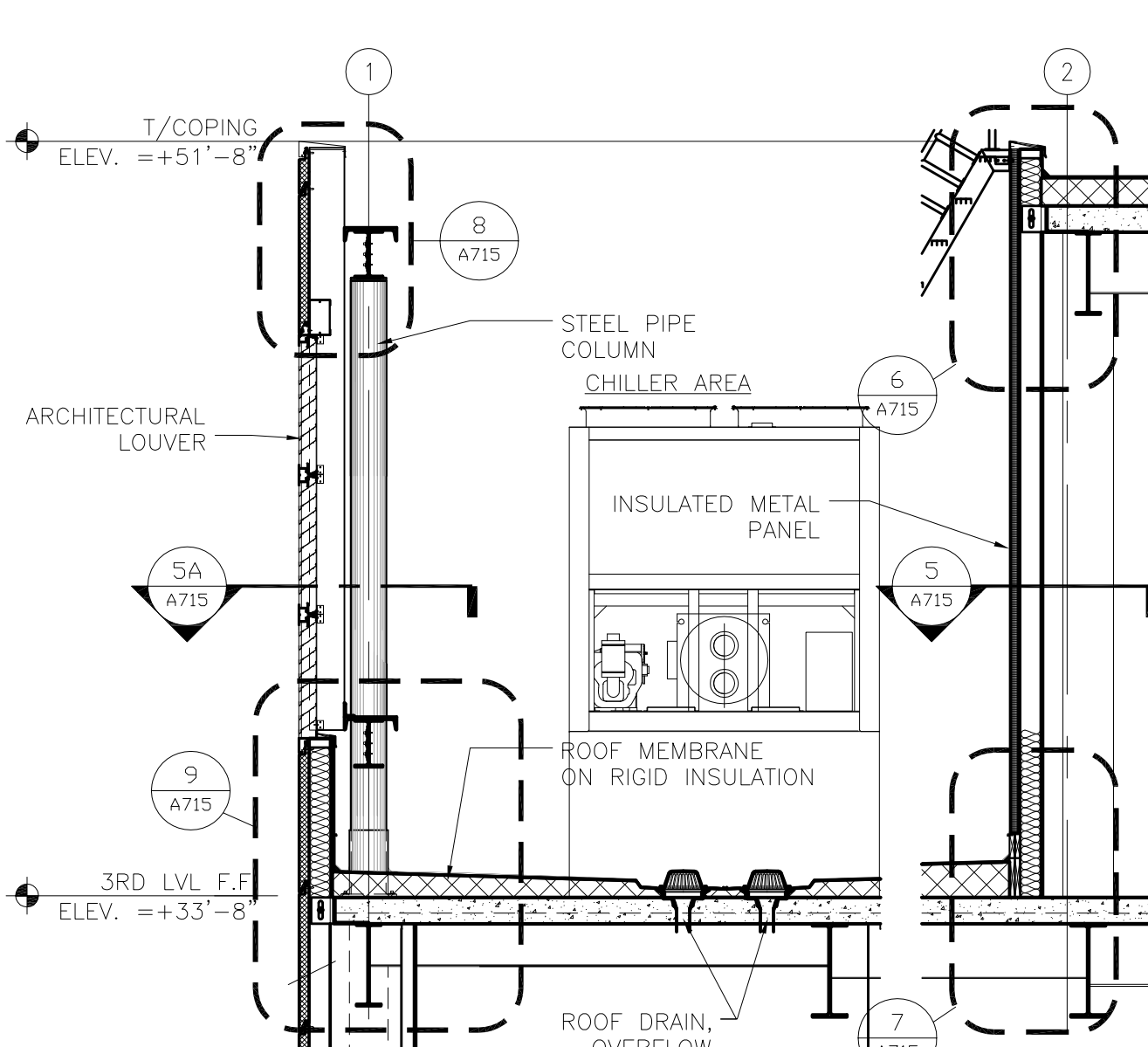
**7 SECTION DETAIL**  
1" = 1'-0"



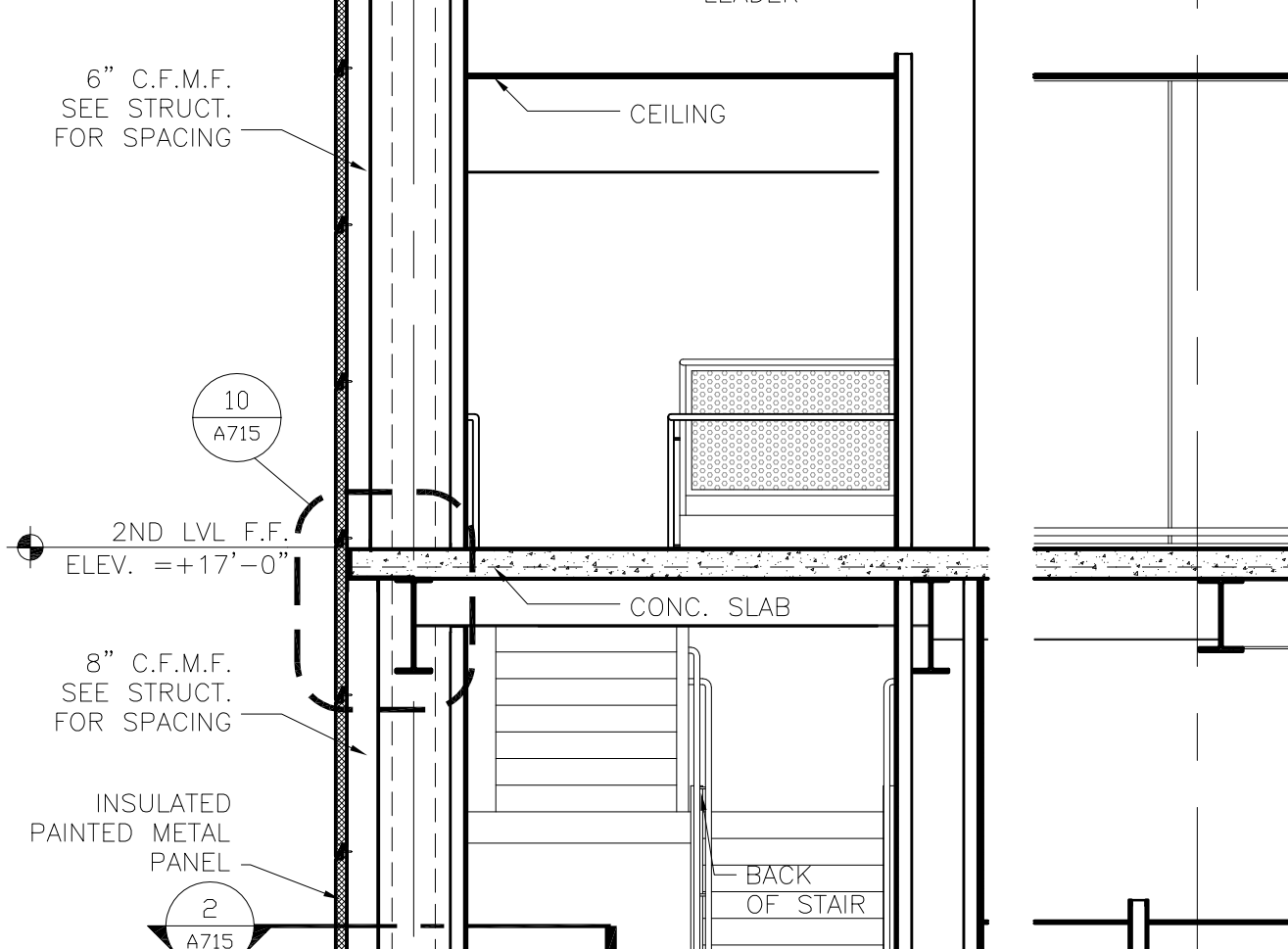
**4 WALL SECTION**  
1/4" = 1'-0"



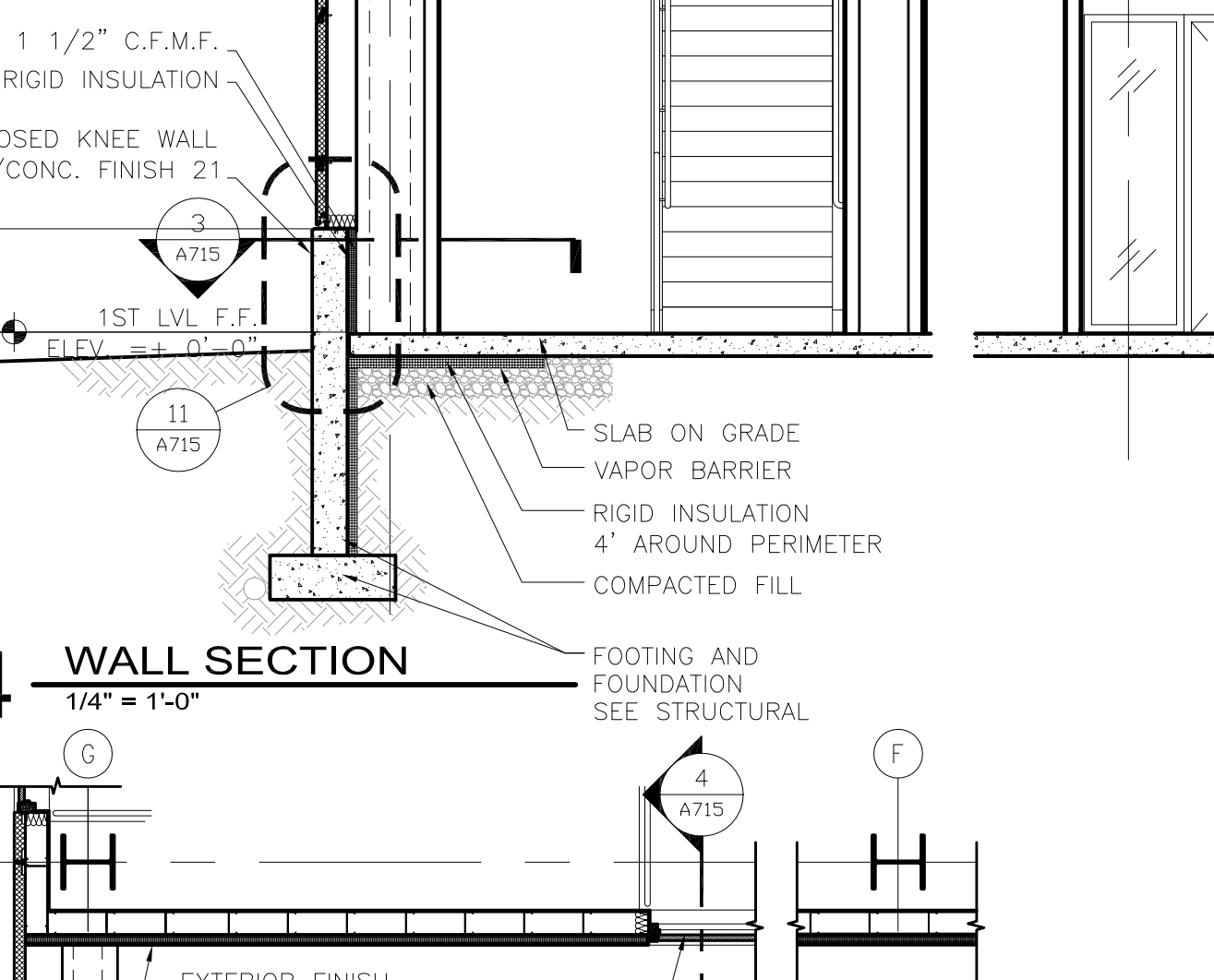
**5A PARTIAL 3RD LEVEL FLOOR PLAN**  
1/4" = 1'-0"



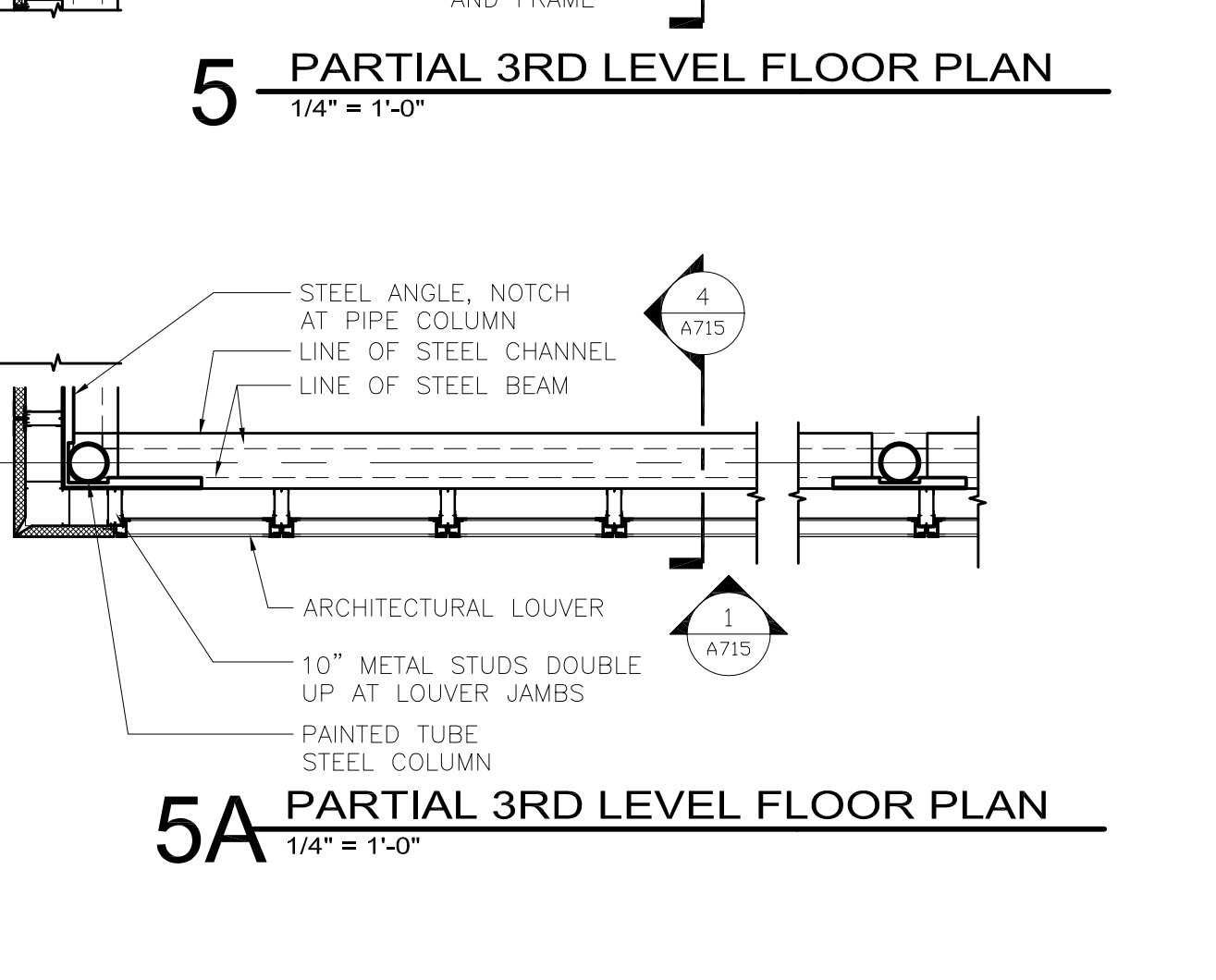
**5 PARTIAL 3RD LEVEL FLOOR PLAN**  
1/4" = 1'-0"



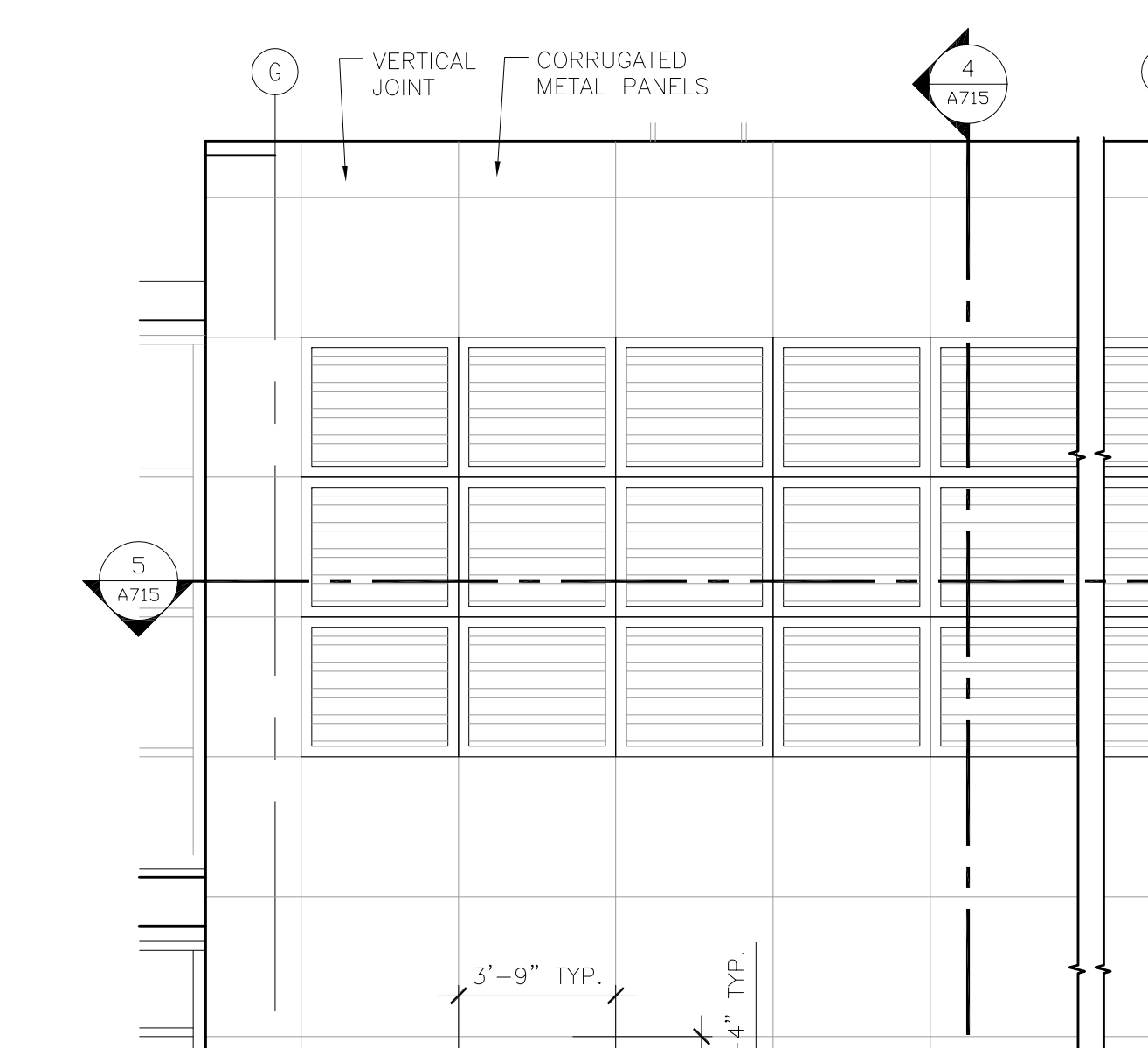
**2 PARTIAL 1ST LEVEL FLOOR PLAN @ INSULATED METAL PANEL**  
1/4" = 1'-0"



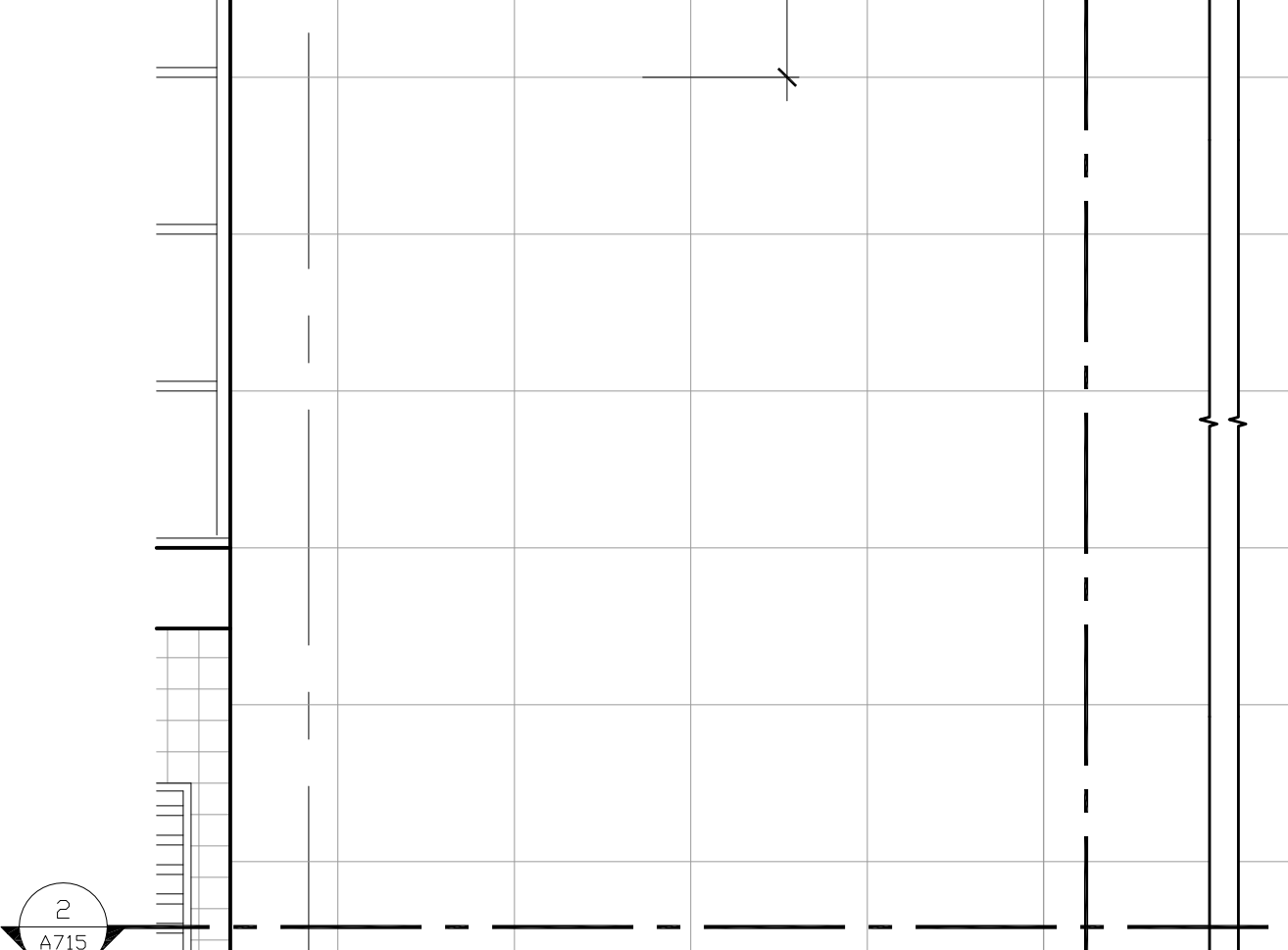
**3 PARTIAL 1ST LEVEL FLOOR PLAN @ STONE**  
1/4" = 1'-0"



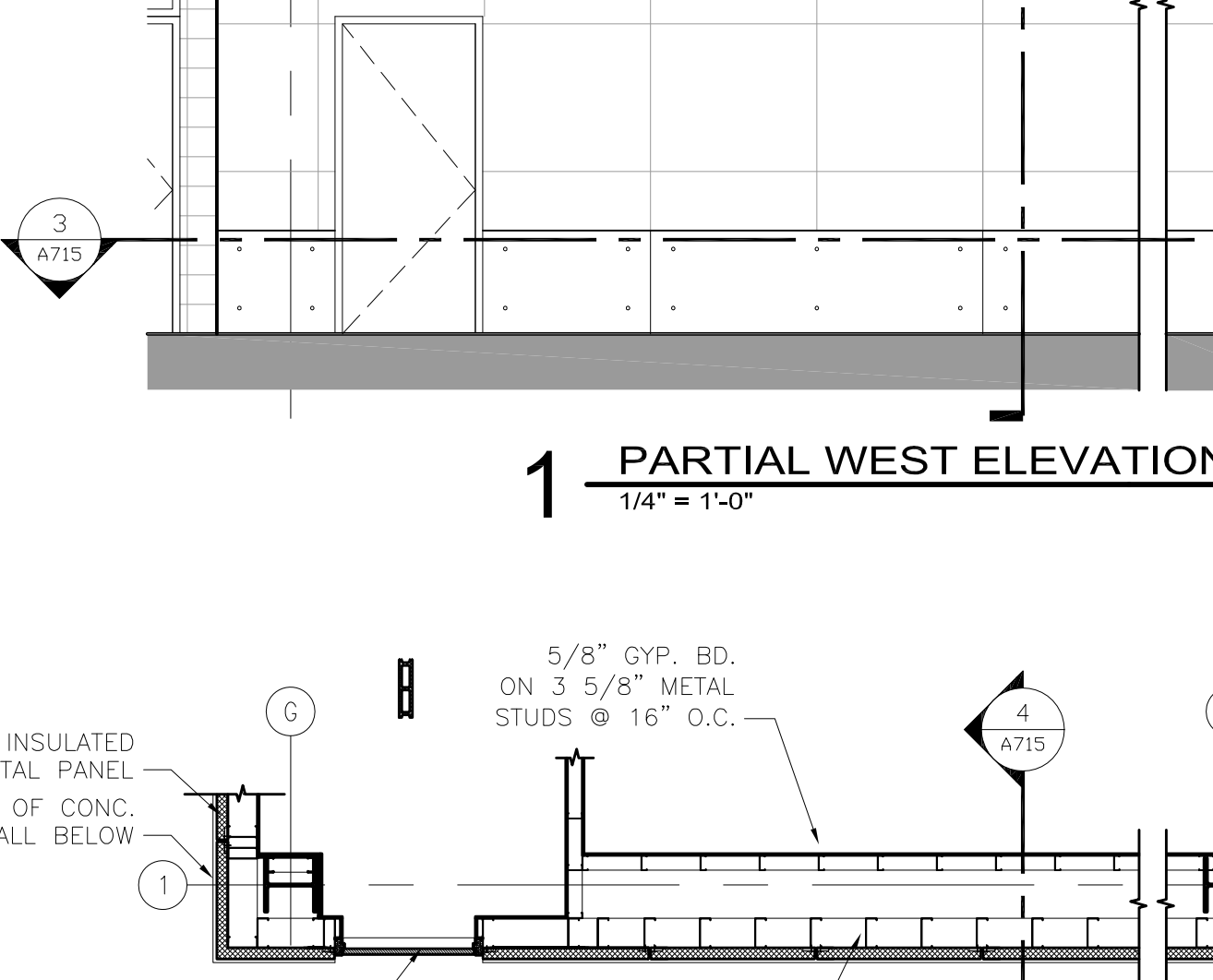
**1 PARTIAL WEST ELEVATION**  
1/4" = 1'-0"



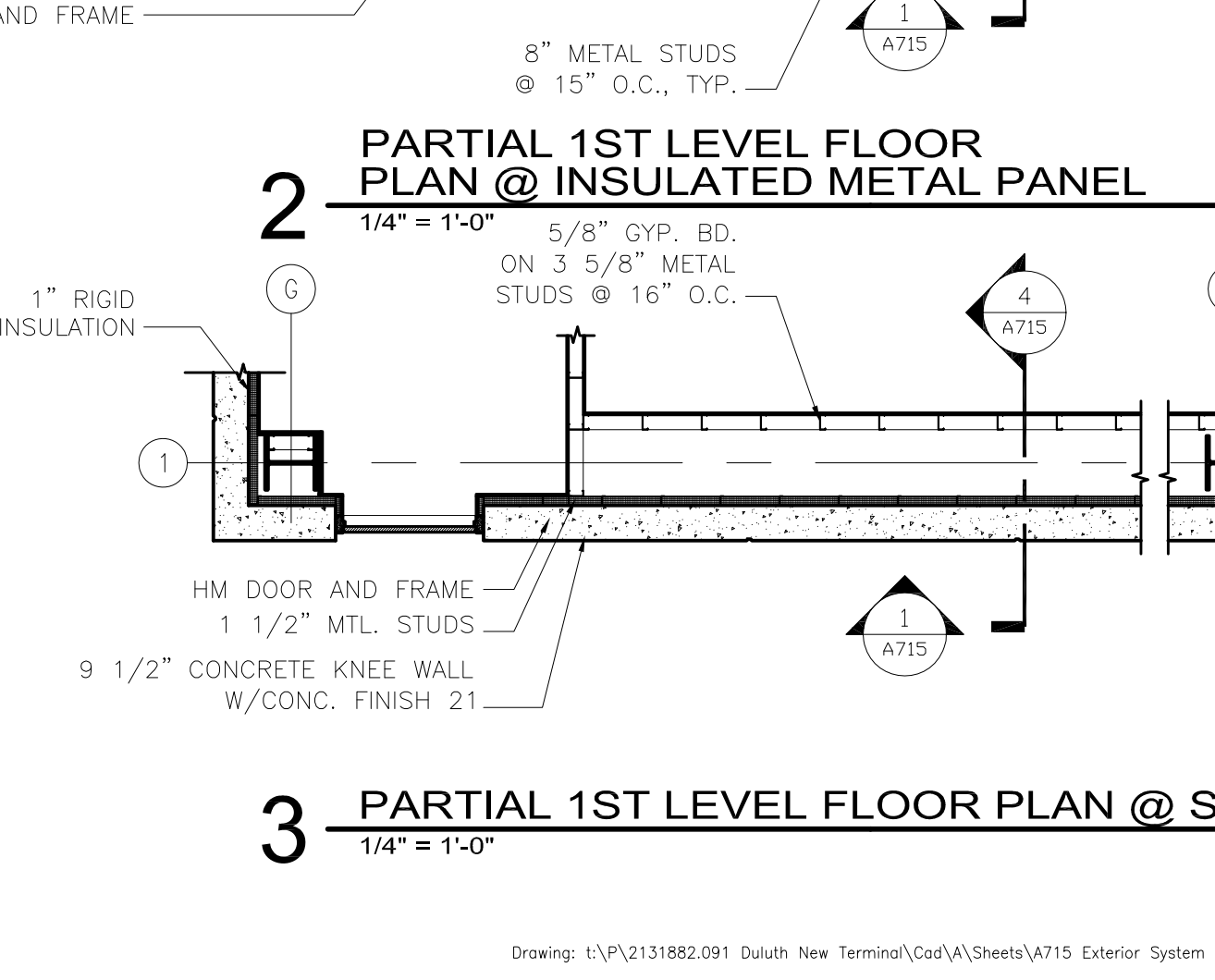
**5 PARTIAL 3RD LEVEL FLOOR PLAN**  
1/4" = 1'-0"



**2 PARTIAL 1ST LEVEL FLOOR PLAN @ INSULATED METAL PANEL**  
1/4" = 1'-0"



**3 PARTIAL 1ST LEVEL FLOOR PLAN @ STONE**  
1/4" = 1'-0"



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

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Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

**DATE ISSUED: 08-16-10**  
**REVIEWED BY: SBS/TC**  
**DRAWN BY: MKG/MI**  
**DESIGNED BY: SBS/TC**

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

**SHEET NUMBER**  
**A715**

**BUILDING PERMIT**



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## TERMINAL

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DATE ISSUED: 08-16-10

REVIEWED BY: SBS/T

DRAWN BY: MKG/M

DESIGNED BY: SBS/T

**AEP PROJECT NUMBER**

**213-1882-09**

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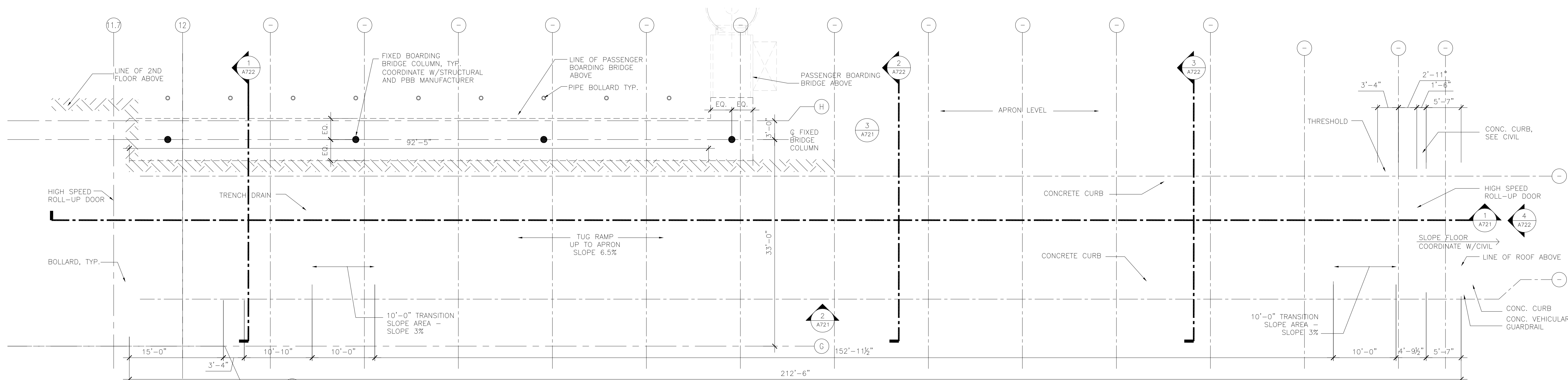
**SHEET TITLE**

## EXTERIOR SYSTEMS TUG TUNNEL

SHEET NUMBER

# A720

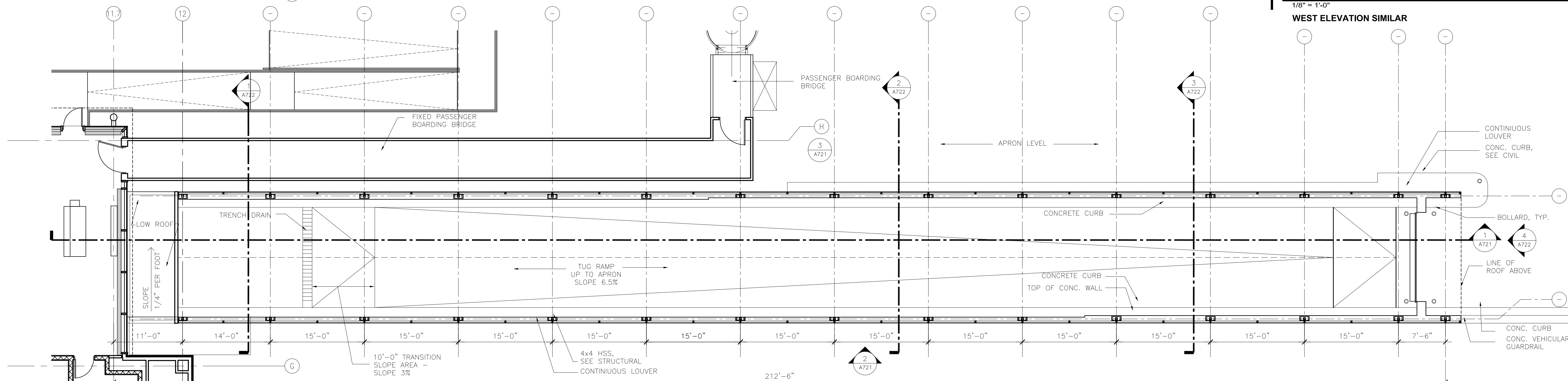
# BUILDING PERMIT



## 1 EAST TUG RAMP FLOOR PLAN

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

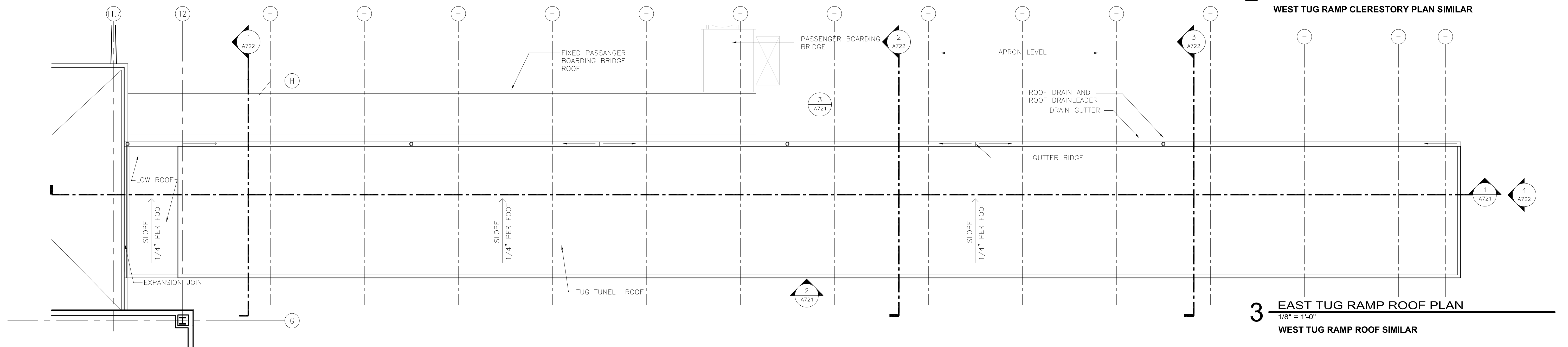
**WEST ELEVATION SIMILAR**



## 2 EAST TUG RAMP CLERESTORY PLAN

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

**WEST TUG RAMP CLERESTORY PLAN SIMILAR**

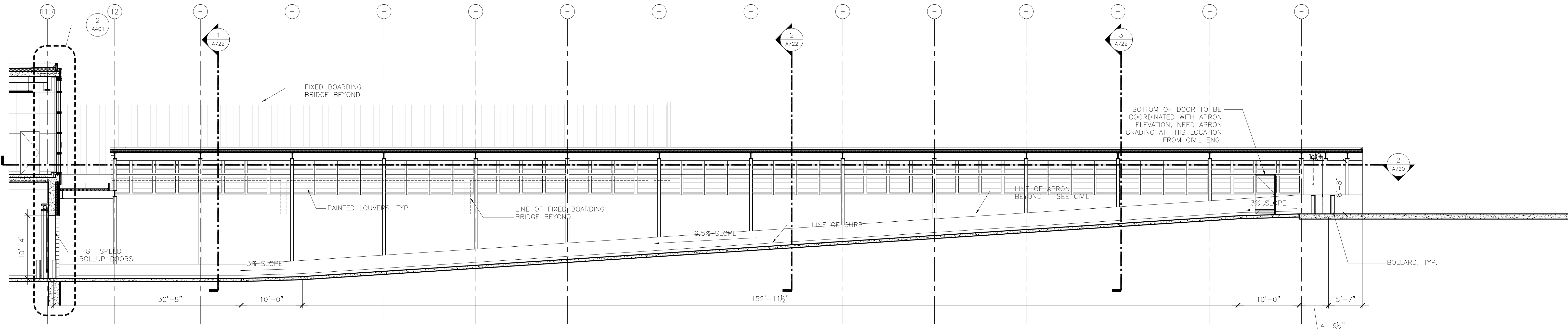


## 2 EAST TUG RAMP ROOF PLAN

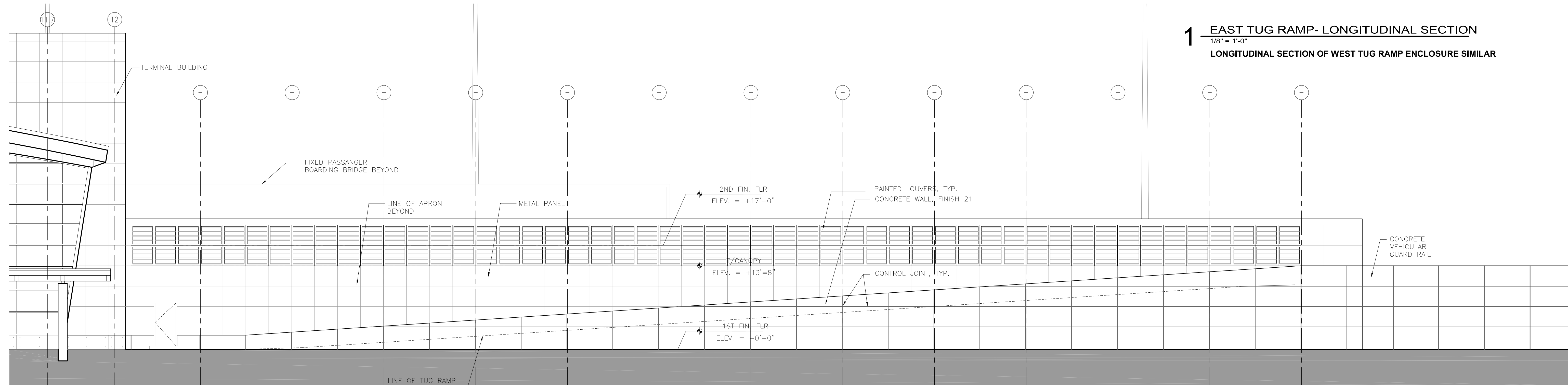
$$\frac{1}{8}'' = 1'-0''$$

**WEST TUG RAMP ROOF SIMILAR**

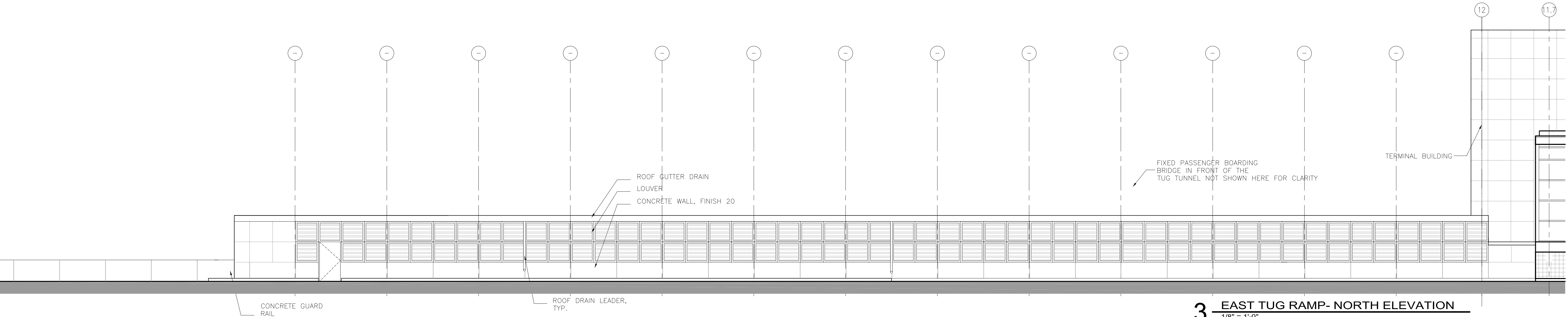




1 EAST TUG RAMP- LONGITUDINAL SECTION  
1/8" = 1'-0"  
LONGITUDINAL SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR



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

REVISIONS		
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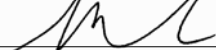
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1 South Wacker Drive, 37th Floor, Chicago IL 60606  
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Baggage Handling Systems Consultants:  
**BNP ASSOCIATES INC.**  
101 East Ridge Office Park, Suite 103, Danbury CT 06810  
TEL: (203) 792-3000 / FAX: (203) 792-4900

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

ARCHITECTURAL CERTIFICATION  
I hereby certify that the architectural plans,  
specifications or report was prepared by me  
or under my direct supervision and that I am  
a duly licensed Professional Architect under  
the laws of the State of Minnesota.

Print Name: Mark Ip

Signature: 

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
4	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: MKG/MI  
DESIGNED BY: SBS/TC

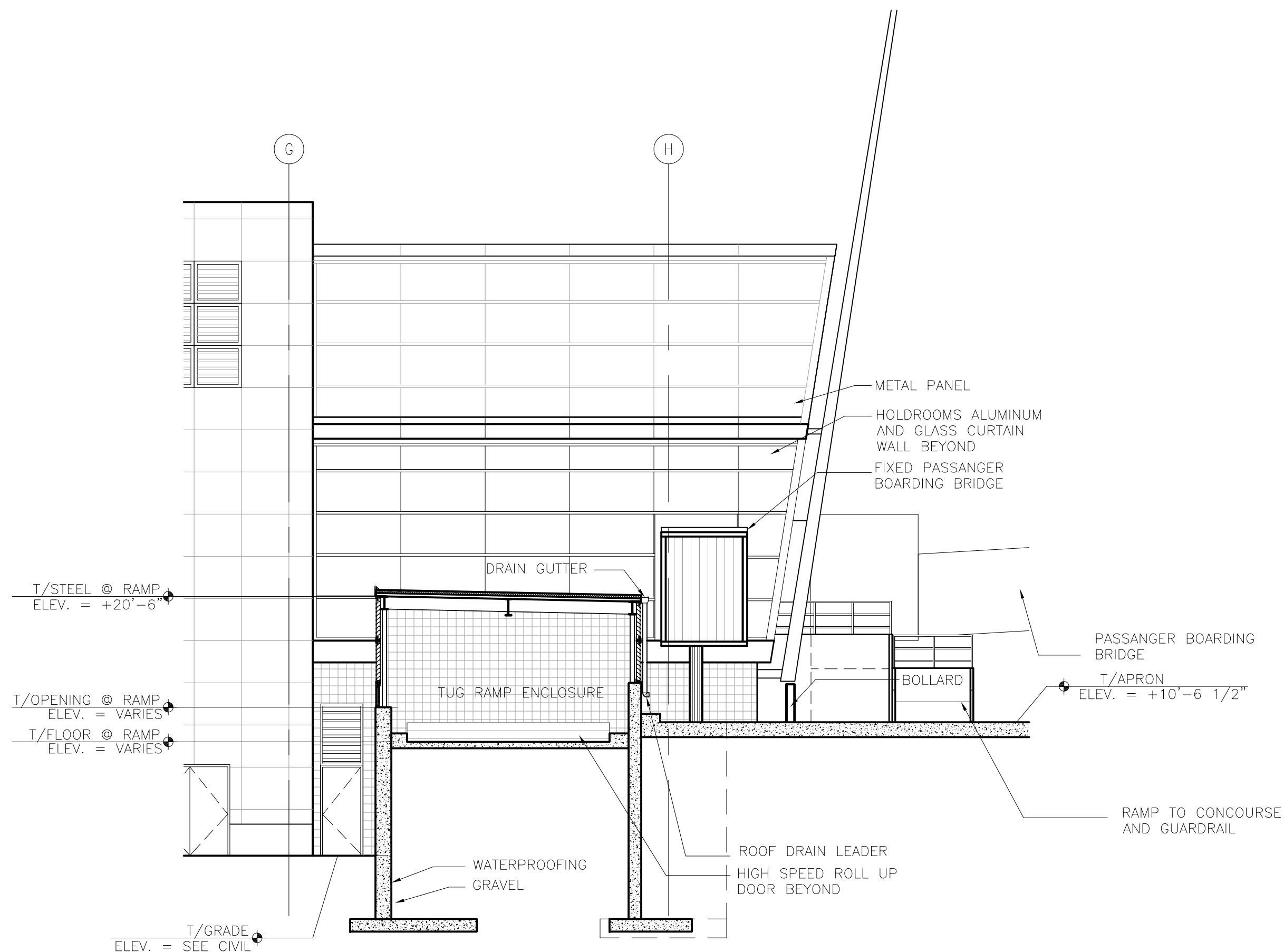
AEP PROJECT NUMBER  
**213-1882-091**  
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**SHEET TITLE**  
**EXTERIOR SYSTEMS  
TUG TUNNEL**

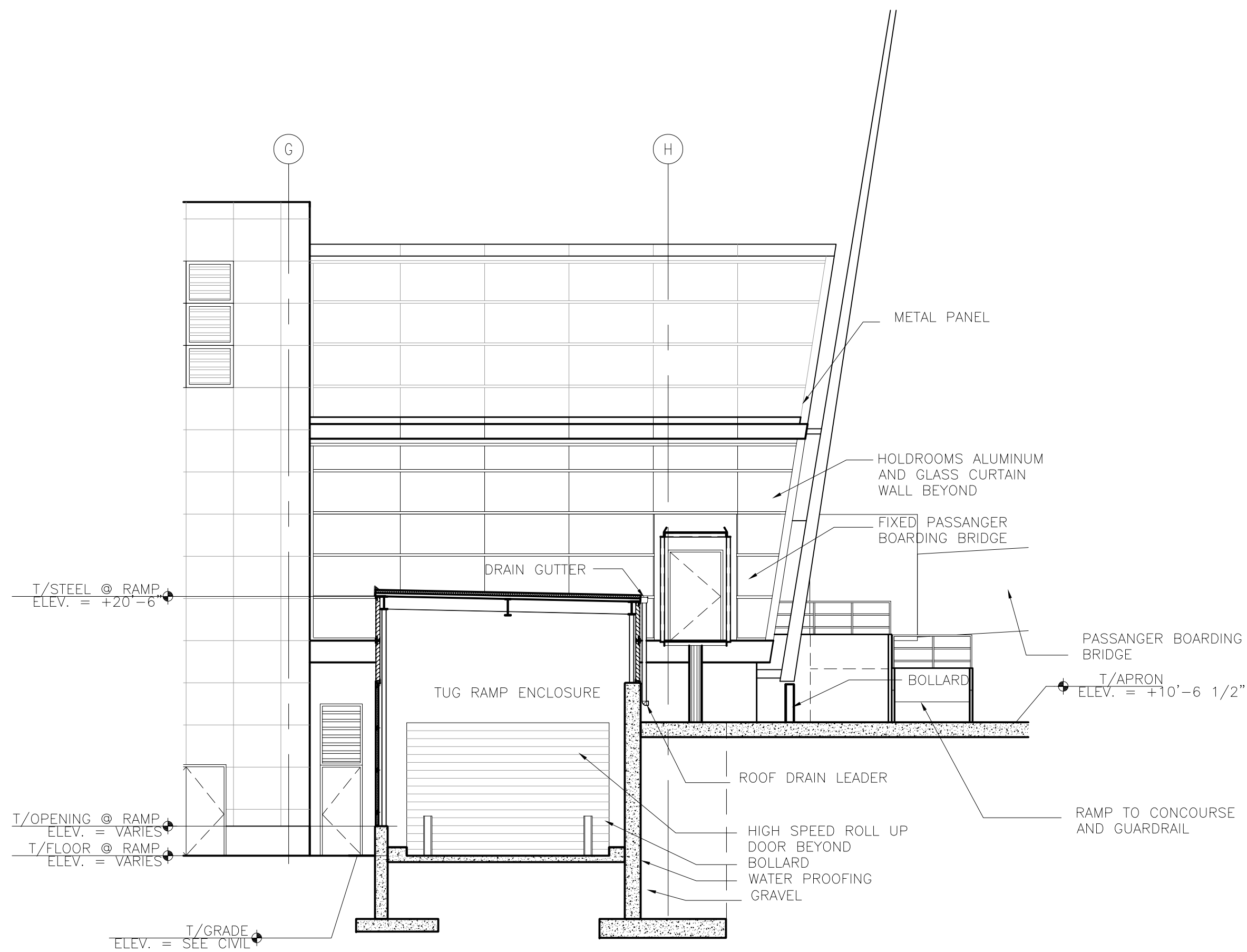
**SHEET NUMBER**

**A722**

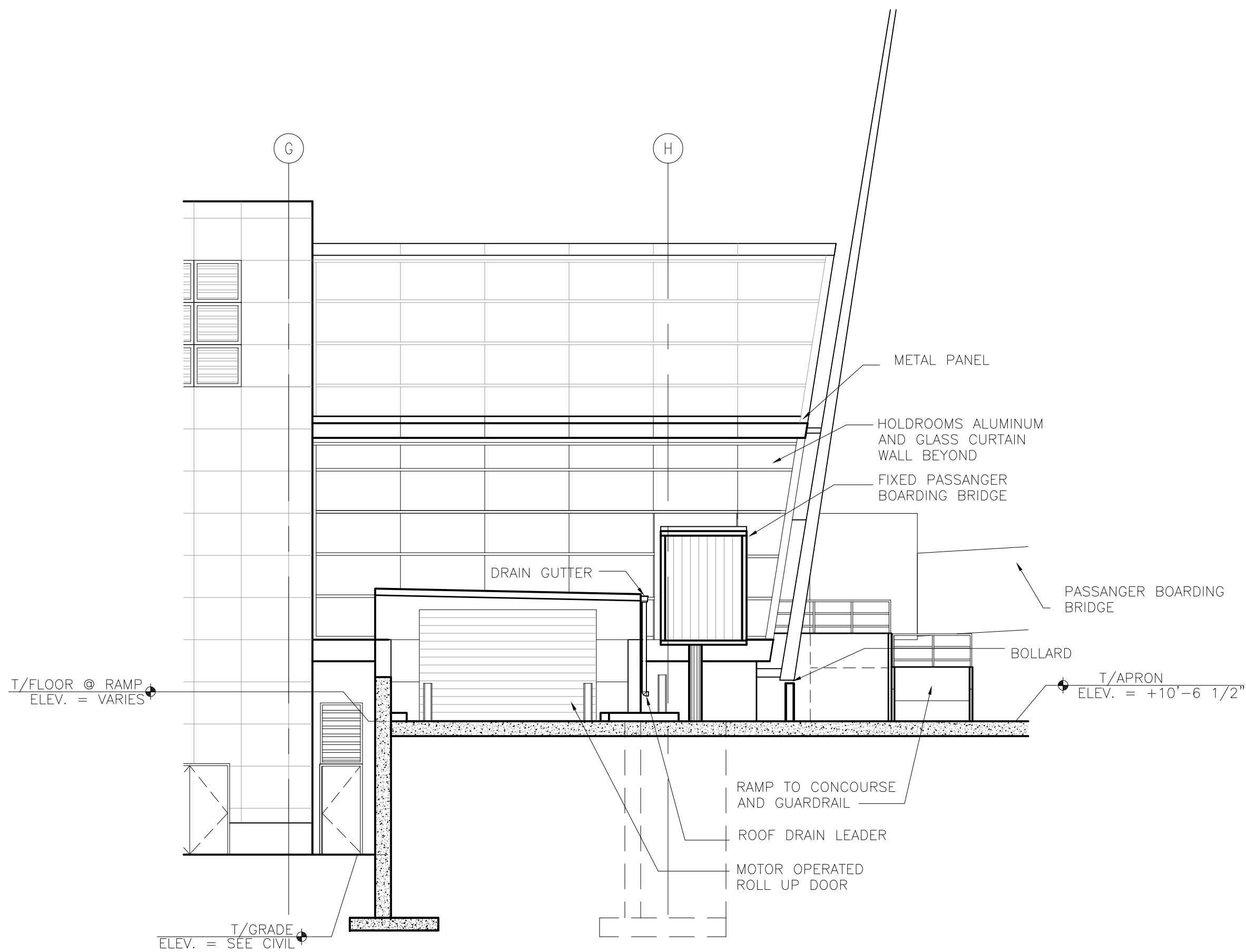
**BUILDING  
PERMIT**



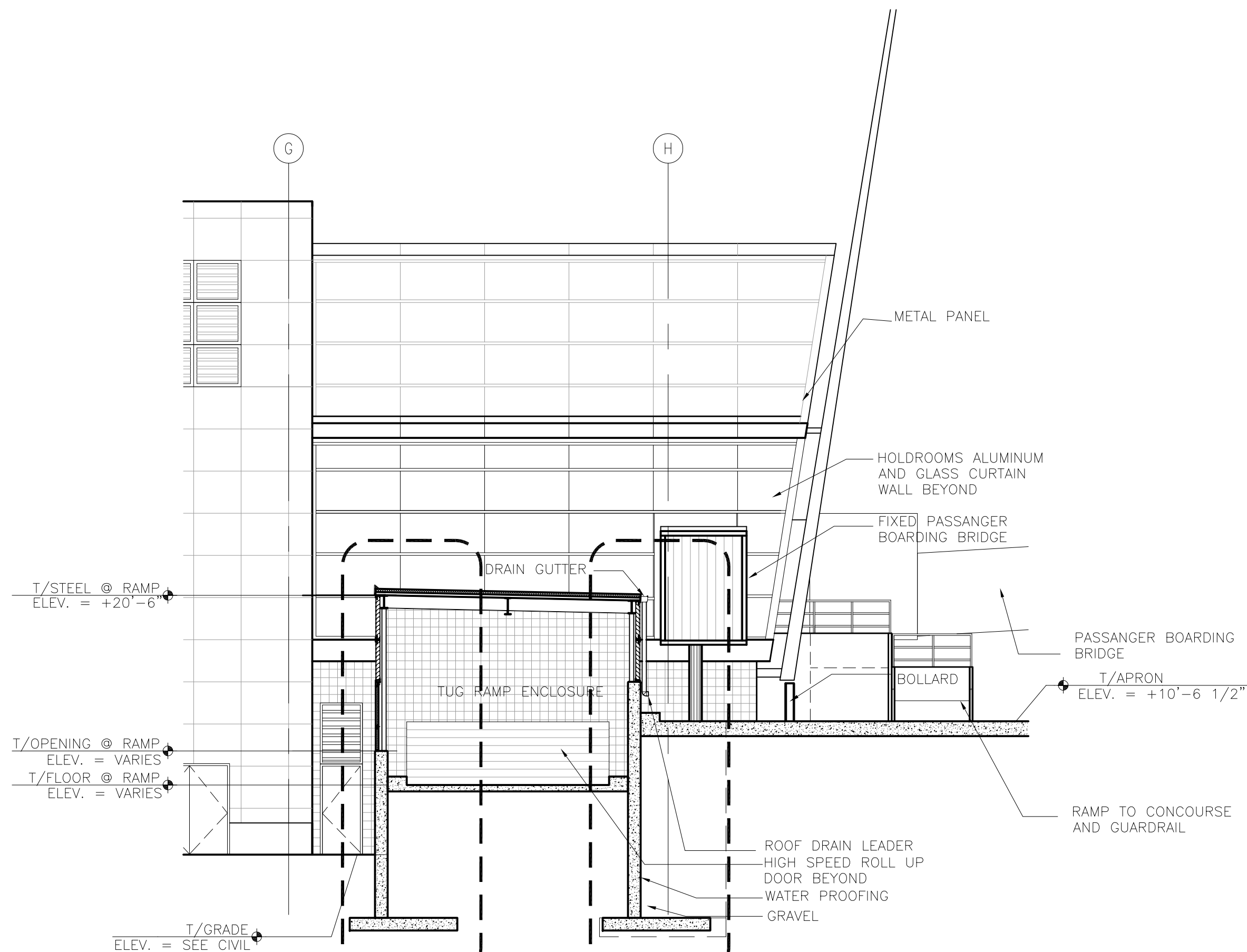
**3 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND**  
1/8" = 1'-0"  
**CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR**



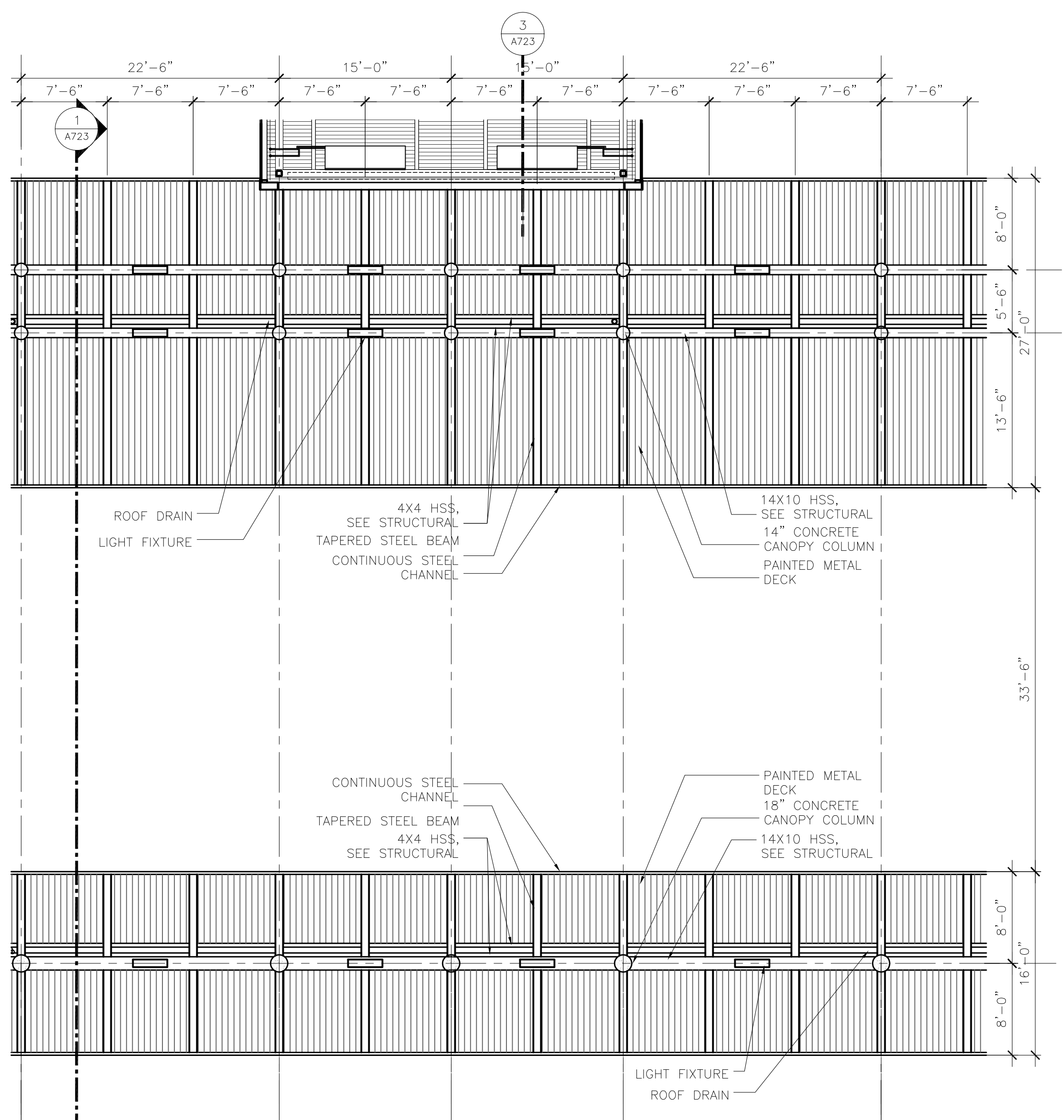
**1 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND**  
1/8" = 1'-0"  
**CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR**



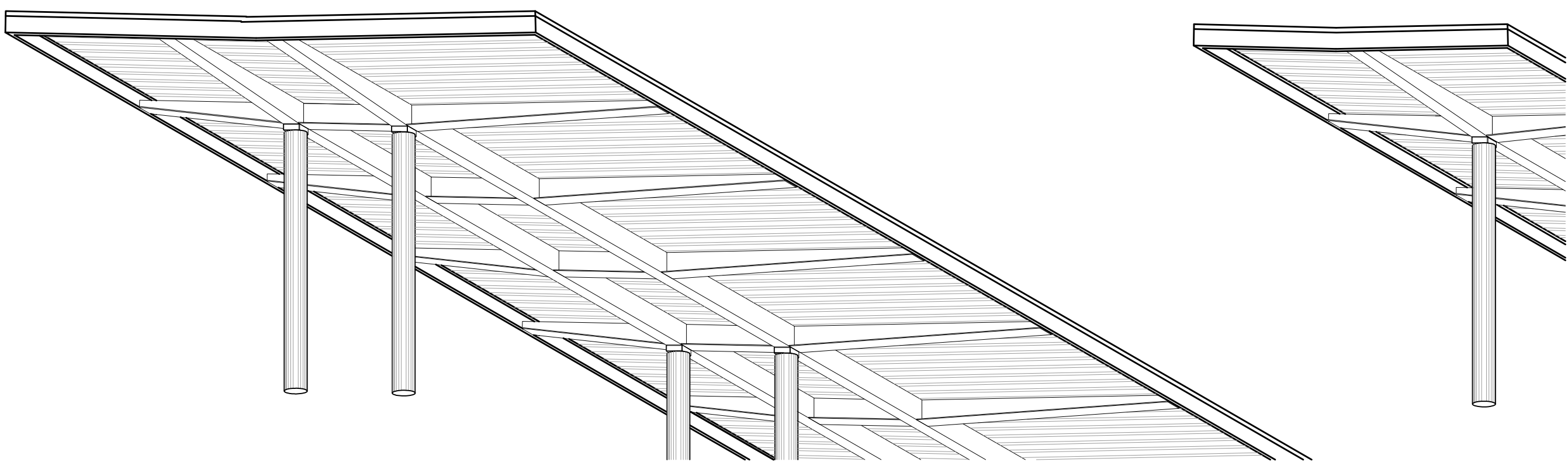
**4 EAST TUG RAMP ENCLOSURE- EAST ELEVATION**  
1/8" = 1'-0"  
**WEST ELEVATION OF WEST TUG RAMP ENCLOSURE SIMILAR**



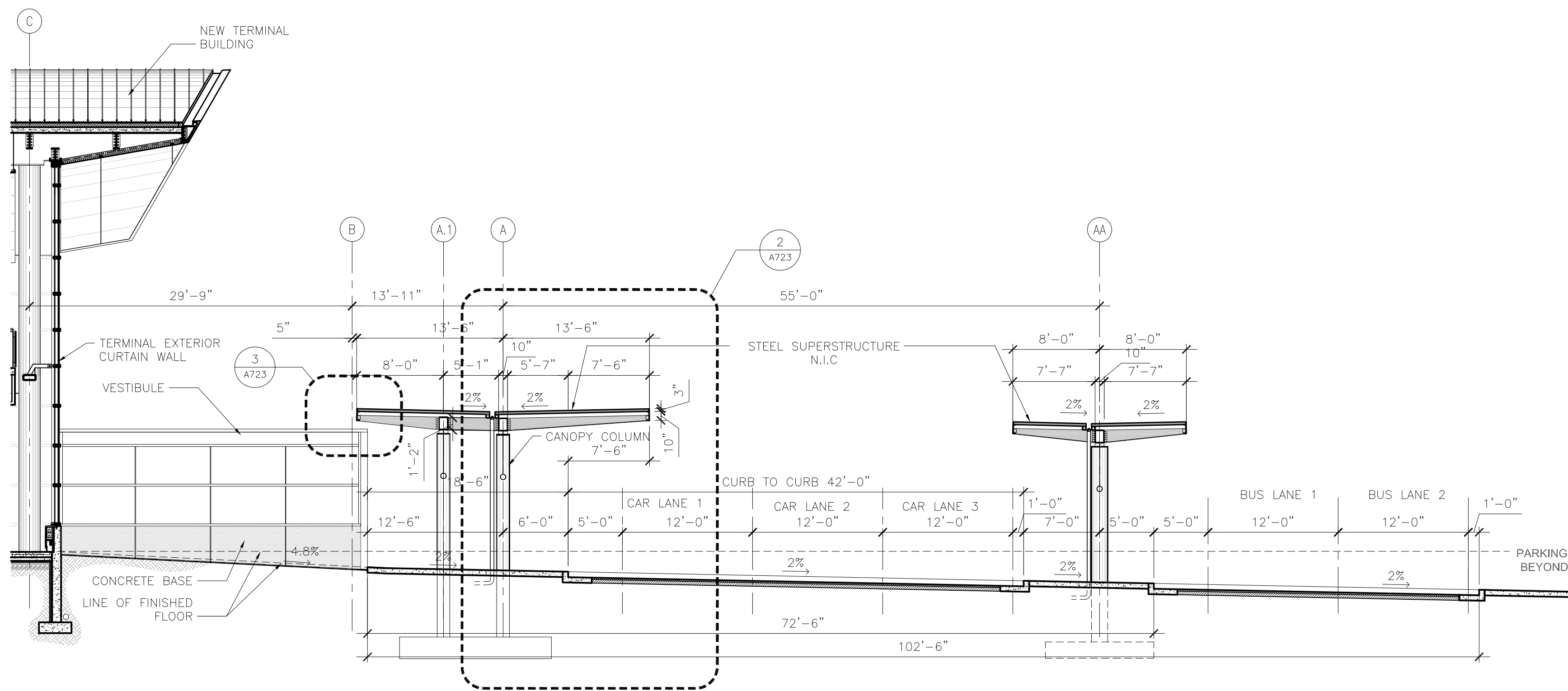
**2 EAST TUG RAMP- CROSS SECTION WITH BUILDING ELEV BEYOND**  
1/8" = 1'-0"  
**CROSS SECTION OF WEST TUG RAMP ENCLOSURE SIMILAR**



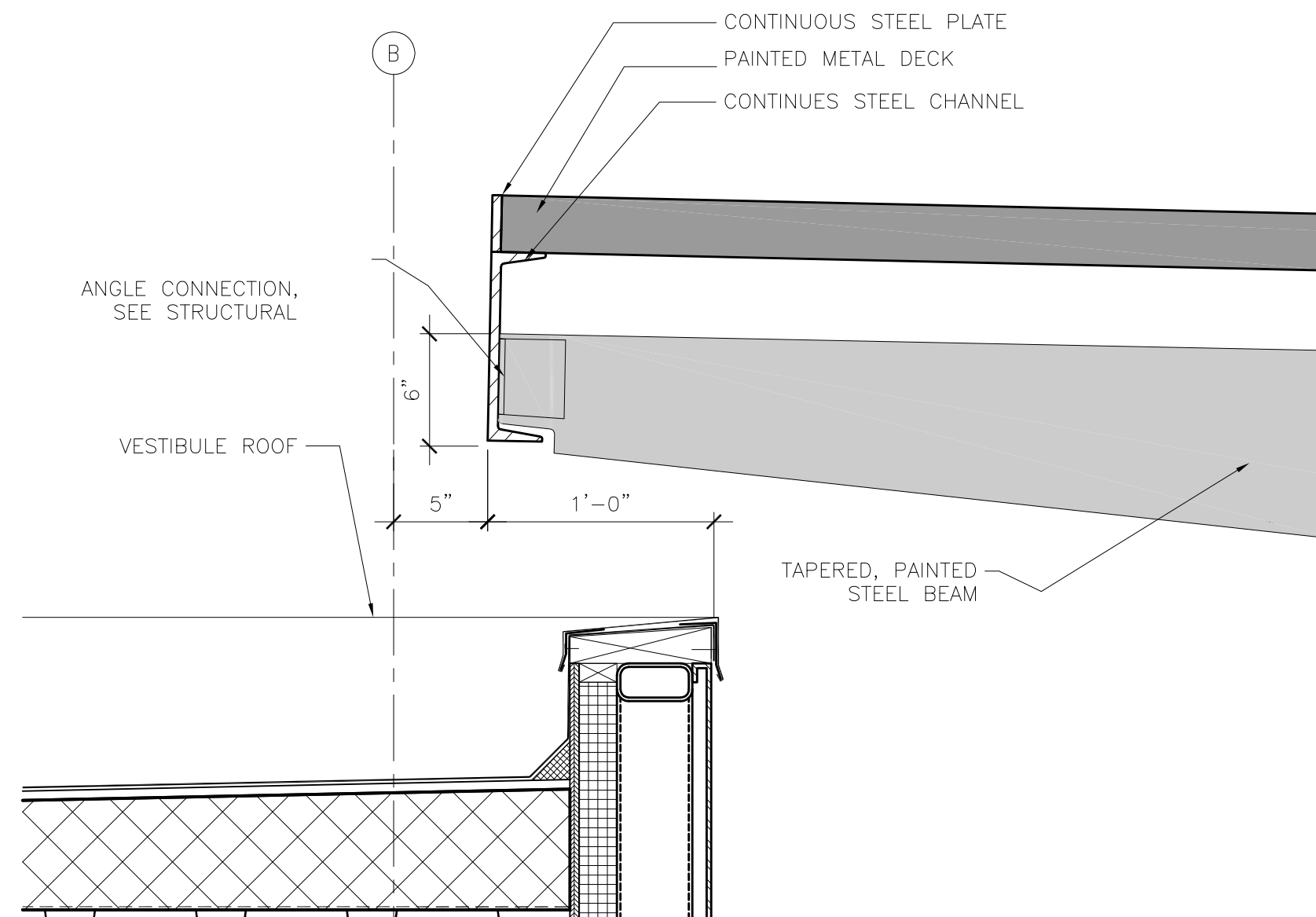
5 PARTIAL REFLECTED CEILING PLAN  
1/8" = 1'-0"



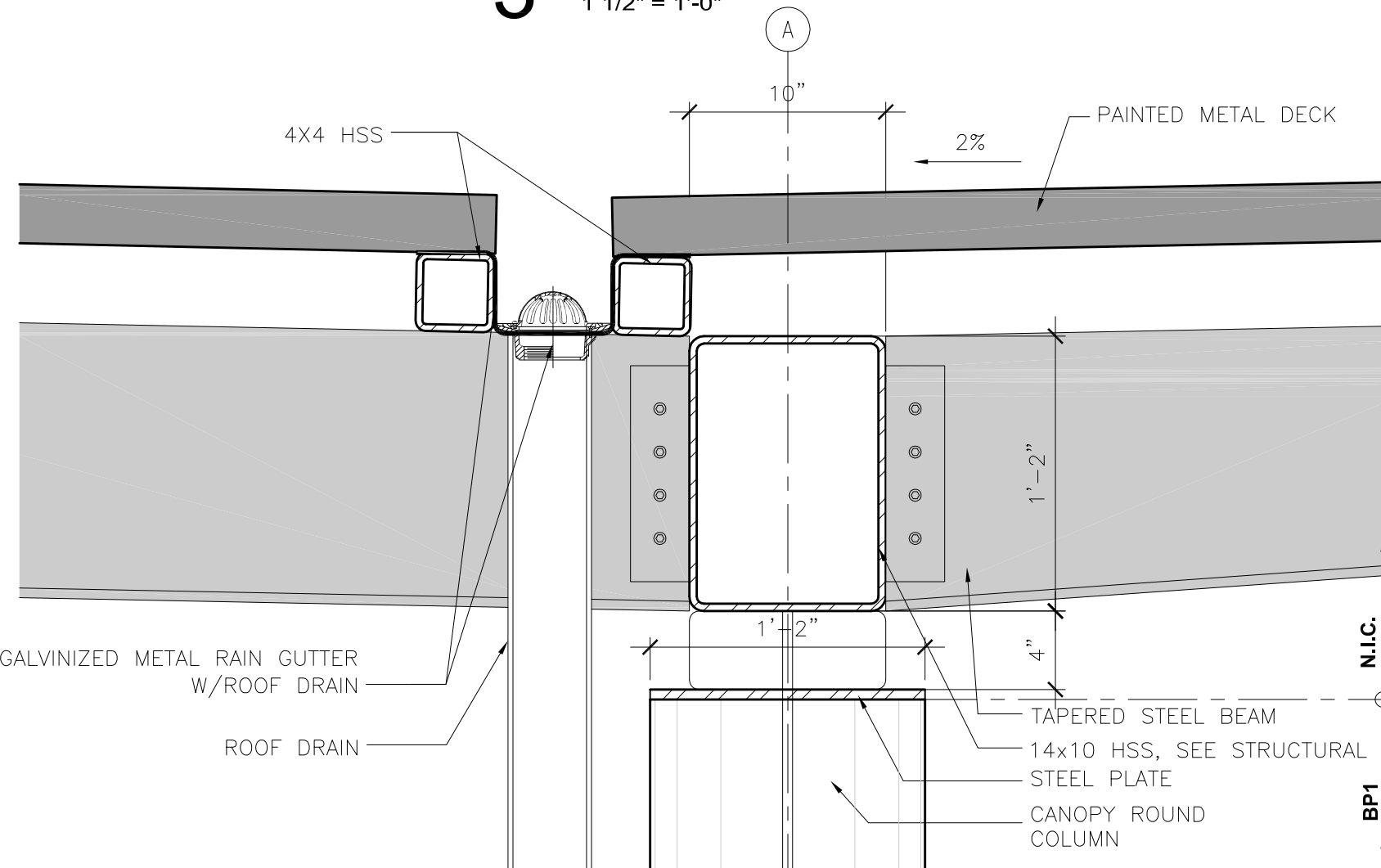
6 CANOPY ISOMETRIC LOOKING UP  
N.T.S.



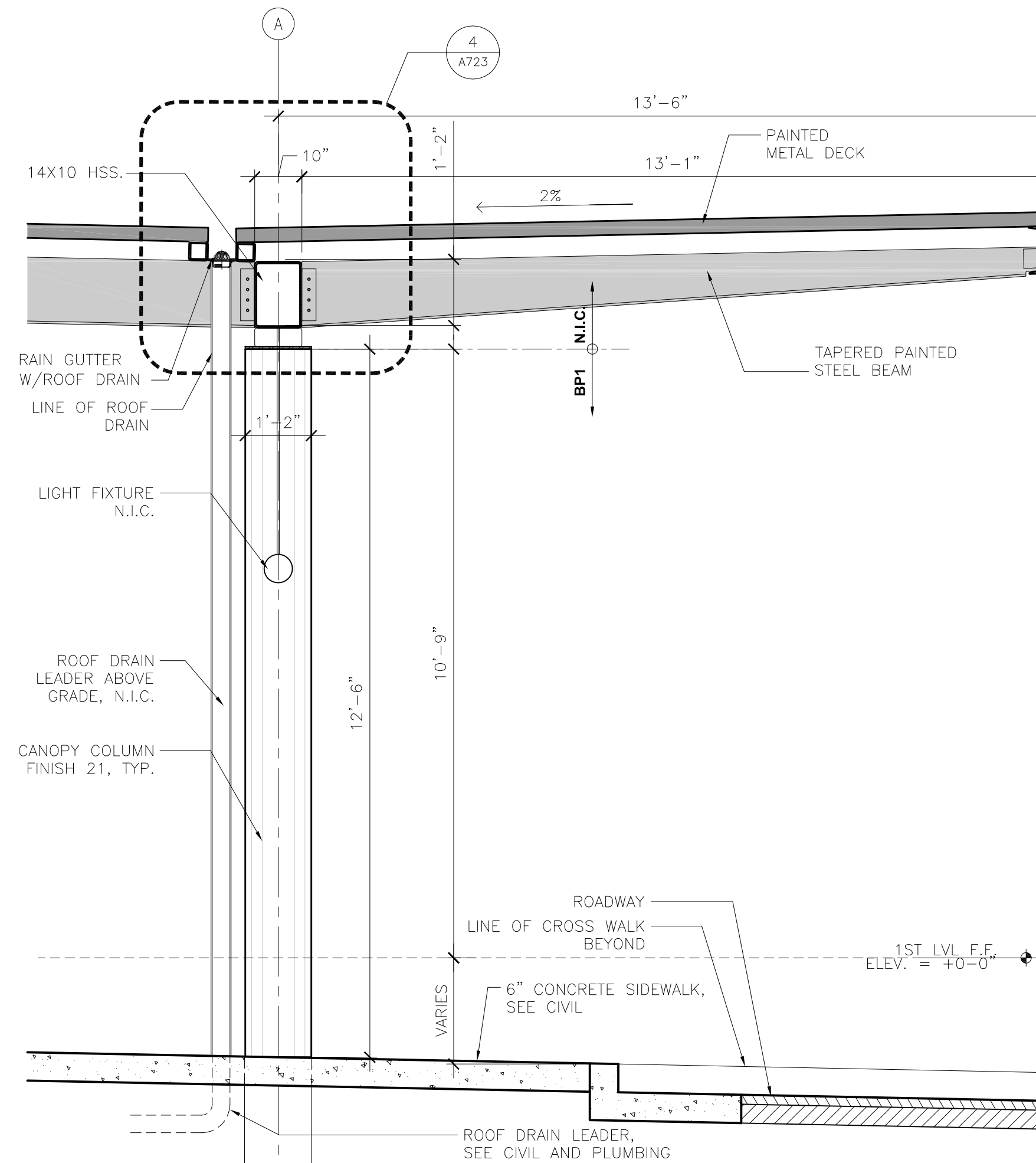
1 OVERALL CANOPY CROSS SECTION  
1/8" = 1'-0"



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



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



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

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

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AUTHORITY**

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AIRPORT  
DULUTH, MN**

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TERMINAL**

**CONSULTANTS**

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

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

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

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**ARCHITECTURAL CERTIFICATION**  
I hereby certify that the architectural plans,  
specifications or report was prepared by me  
or under my direct supervision and that I am  
a duly licensed Professional Architect under  
the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
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	CONFORMANCE SET	7.12.10
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DATE ISSUED: 08-16-10

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**

**BUILDING  
PERMIT**



## SECOND FLOOR FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	WALLS								CEILING		WINDOW COVERING	REMARKS
			NORTH			EAST		SOUTH		WEST				
		FINISH	FINISH	BASE	FINISH	BASE	FINISH	BASE	FINISH	BASE	MATERIAL	HEIGHT		
201	PASSENGER WAITING	TER	DP-1/ DP-2	SST	GL-3	SST	GL-1/ GL-3	SST	GL-3	SST	CL-1			
202	CORRIDOR	TER	DP1 MTL	TER	PT	TER	GL-2	TER	DP-1/ DP-2	TER	CL-6			
203	CORRIDOR	RF-1	WRP PT	RB-1	WRP PT	RB-1	WRP PT	RB-1	WRP PT	RB-1	CL-3			
204	TELECOM	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
205	JAN.	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
206	MEN	T-1/ T-2	T	T	T/ GT	T	T/ GT	T	T	T	CL-4			
207	WOMEN	T-1/ T-2	T	T	T	T	T/ GT	T	T/ GT	T	CL-4			
208	TS&A CHECKPOINT	CPT-2	GL-4	SST	WRP PT	SST	WRP PT	SST	WRP PT	SST	CL-2			
209	STOR.	RF-3	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
210	REMOTE V.	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
211	TS&A	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
212	DUTY POLICE	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
213	AIRPORT POLICE	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
214	TS&A QUEUE	CPT-2	GL-4	SST	WRP PT	SST	--	SST	GL-4	SST	CL-2			
215	DEPLANNING	CPT-3	--	SST	GL-4	SST	--	SST	DP-2	SST	CL-2			
216	VIDEO	TER	PT	SST	PT	SST	PT	SST	PT	SST	CL-6/ PT-2			
217	COMM	RF-3	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
218	NOT USED													
219	CONCOURSE	CPT-3	GL-1	SST	GL-1	SST	GL-4/ DP-2	SST	GL-4	SST	CL-2/ EX-2			
220	NOT USED													
221	MEN	T-1/ T-2	T	T	T/ GT	T	T	T	T/ GT	T	CL-4			
222	WOMEN	T-1/ T-2	T	T	T/ GT	T	T	T	T/ GT	T	CL-4			
223	FAMILY	T-1/ T-2	T	T	T	T	T	T	T	T	CL-4			
224	SERVERY	--	--	--	--	--	--	--	--	--	--			NIC
225	KITCHEN	--	--	--	--	--	--	--	--	--	--			NIC
226	BAR	--	--	--	--	--	--	--	--	--	--			NIC
227	MEN	T-1/ T-2	T	T	T	T	T/ GT	T	T/ GT	T	CL-4			
228	WOMEN	T-1/ T-2	T	T	T/ GT	T	T/ GT	T	T	T	CL-4			
229	CORRIDOR	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
230	ELEC	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
231	BOARDING	CPT-3	GL-1/ PT	SST	GL-4	SST	GL-2	SST	DP-2	SST	CL-2/ EX-2			
232	VEST	CPT-3	GL-1	SST	GL-4	SST	GL-2	SST	GL-2	SST	CL-2/ EX-2			
233	CORR.	CPT-3	GL-2/ PT	SST	GL-4/ PT	SST	DP-2	SST	--	SST	CL-2			
234	FBO OFFICE	CPT-1	GL-1/ PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-2/ EX-2			
235	WOMEN	T-1/ T-2	T	T	T	T	T/ GT	T	T	T	CL-4			
236	MEN	T-1/ T-2	T/ GT	T	T	T	T	T	T	T	CL-4			
237	INTERNATIONAL	TER	GL-5	TER	DP MTL	TER	GL-5	TER	DP MTL/ GL-2	TER	CL-6			
238	MEN	T-1/ T-2	T	T	T/ GT	T	T	T	T	T	CL-4			
239	WOMEN	T-1/ T-2	T	T	T/ GT	T	T	T	T	T	CL-4			
240	COMP	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-7			
241	OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
242	CORR.	CPT-3	GL-1	SST	PT	SST	DP-2	SST	GL-1	SST	CL-2/ EX-2			
243	NOT USED													
244	NOT USED													
245	ROVER	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
247	FIXED BRIDGE	--	--	--	--	--	--	--	--	--	--			Equipment Item
248	FIXED BRIDGE	--	--	--	--	--	--	--	--	--	--			Equipment Item
249	STOR.	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
250	CONF.	CPT-5	WC	WB	PT	WB	PT	WB	PT	WB	CL-5			
251	OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
252	WHEELCHAIR	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
REMARKS														
1														
2														
3														
GENERAL NOTES														
1														
2														
3														

REMARKS
1
2
3
GENERAL NOTES
1
2
3

## THIRD FLOOR FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	WALLS								CEILING		WINDOW COVERING	REMARKS
			NORTH		EAST		SOUTH		WEST					
			FINISH	FINISH	BASE	FINISH	BASE	FINISH	BASE	FINISH	BASE	MATERIAL		
301	WAITING	CPT-3	WC/ PT	WB		WC/ PT	WB		WC/ PT	WB	CL-5/ CL-6			
302	CORRIDOR	CPT-3	WC/ PT	WB		WC/ PT	WB		WC/ PT	WB	CL-6			
303	NOT USED													
304	MECHANICAL ROOM	SC-1	--	--		--	--		--	--	EX-1			
305	OFFICE	CPT-4	PT	RB-2		PT	RB-2		PT	RB-2	CL-5			
306	CORRIDOR	CPT-1	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
307	TS&A TRAINING	CPT-1	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
308	W. LOCKER	RF-2	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
309	M. LOCKER	RF-2	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
310	TS&A BREAK	RF-2	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
311	TS&A OFFICE	CPT-1	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
312	TS&A OFFICE	CPT-1	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
313	BADGE	CPT-4	PT	RB-2		PT	RB-2		PT	RB-2	CL-5			
314	JAN.	RF-1	PT	RB-1		PT	RB-1		PT	RB-1	EX-1			
315	MEN	T-1/ T-2	T	T	T/ GT	T	T/ GT	T	T	T	CL-4			
316	WOMEN	T-1/ T-2	T	T	T	T	T/ GT	T	T/ GT	T	CL-4			
317	CORR.	CPT-4	WC/ PT	RB-2		PT	RB-2		PT	WB	CL-5			
318	EMERG. OPS	CPT-5	GL-1/ PT	WB		WC/ PT	WB		PT	WB	CL-5/ CL-6			
319	STORAGE	RF-1	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
320	OSP CONF.	CPT-5	GL-1/ PT	WB		WC/ PT	WB		PT	WB	CL-5/ CL-6			
321	RECEPTION	CPT-4	PT	RB-2		PT	RB-2		PT	WB	CL-5/ CL-6			
322	OPS CONF.	CPT-5	GL-1/ PT	WB		WC/ PT	WB		PT	WB	CL-5/ CL-6			
323	EXEC DIR	CPT-4	GL-1/ PT	RB-2		PT	RB-2		PT	RB-2	CL-5/ CL-6			
324	OPS	CPT-4	GL-1/ PT	RB-2		PT	RB-2		PT	RB-2	CL-5/ CL-6			
325	DIR.	CPT-4	GL-1/ PT	RB-2		PT	RB-2		PT	RB-2	CL-5/ CL-6			
326	DIR.	CPT-4	GL-1/ PT	RB-2		PT	RB-2		PT	RB-2	CL-5/ CL-6			
327	OFFICE	CPT-4	GL-1/ PT	RB-2		GL-1/ PT	RB-2		PT	RB-2	CL-5/ CL-6			
328	OPEN OFFICE	CPT-4	WC/ PT	RB-2		GL-1/ PT	RB-2		PT	RB-2	CL-5			
229	NOT USED													
330	NOT USED													
331	COPY	RB-3	PT	RB-2		PT	RB-2		PT	RB-2	CL-5			
332	OFFICE	CPT-4	PT	RB-2		PT	RB-2		PT	RB-2	CL-5			
333	MECHANICAL ROOM	SC-1	--	--		--	--		--	--	EX-1			
334	ELECTRICAL	SC-1	--	--		--	--		--	--	EX-1			
335	CORRIDOR	CPT-1	PT	RB-1		PT	RB-1		PT	RB-1	EX-2			
336	STORAGE	RF-1	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
337	COMM ELEC	RF-1	PT	RB-1		PT	RB-1		PT	RB-1	CL-3			
REMARKS														
1														
2														
3														
GENERAL NOTES														
1														
2														
3														

REMARKS
1
2
3
GENERAL NOTES
1
2
3

## FIRST FLOOR FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	WALLS								CEILING		WINDOW COVERING	REMARKS
			NORTH		EAST		SOUTH		WEST		MATERIAL	HEIGHT		
FINISH	FINISH	BASE	FINISH	BASE	FINISH	BASE	FINISH	BASE	FINISH	BASE				
100/ 101	VESTIBULE		GL-1		GL-1		GL-1		GL-1		--		Entrance Floor System- Refer to Specifications	
102	CHECK-IN LOBBY	TER	--	SST	GL-1	SST	GL-1	SST	--	SST	CL-1			
103	CHECK-IN COUNTER	TER	DP-1/ DP-2	SST	GL-1	SST	--	SST	--	SST	CL-1			
104	LOBBY CIRCULATION	TER	DP-1	SST	--	SST	DP-1/ DP-2	SST	--	SST	CL-2/ CL-6			
105	ELEV.												Refer to Elevator Specifications	
106	RAC 5B	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
107	RAC 5A	TER	DP-1/ PT	SST	DP-1/ PT	SST	PT	SST	DP-1/ PT	SST	CL-2			
108	RAC 4B	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
109	RAC 4A	TER	DP-1/ PT	SST	DP-1/ PT	SST	PT	SST	DP-1/ PT	SST	CL-2			
110	RAC 3B	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
111	RAC 3A	TER	DP-1/ PT	SST	DP-1/ PT	SST	PT	SST	DP-1/ PT	SST	CL-2			
112	RAC 2B	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
113	RAC 2A	TER	DP-1/ PT	SST	DP-1/ PT	SST	PT	SST	DP-1/ PT	SST	CL-2			
114	RAC 1B	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
115	RAC 1A	TER	DP-1/ PT	SST	DP-1/ PT	SST	PT	SST	DP-1/ PT	SST	CL-2			
116	BAGGAGE CLAIM	TER	DP-1/ DP-2	SST	DP-1/ DP-2	SST	GL-1	SST	DP-1/ DP-2	SST	CL-2/ CL-6			
117	INTERNATIONAL	TER	DP-1/ DP-2	SST	DP-1/ DP-2	SST	GL-1	SST	GL-1	SST	CL-1/ CL-2			
118	ELEV.												Refer to Elevator Specifications	
119	NOT USED													
120	CORRIDOR	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	CL-3			
121	WHEELCHAIR	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	CL-3			
122	OPS	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
123	OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
124	OPS	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
125	OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
126	LOADING	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
127	OPS	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
128	SPRINKLER	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
129	WOMENS	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	CL-4			
130	MENS	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	CL-4			
131	OPS	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
132	OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
133	CBS ROOM	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
134	BAG	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
135	BAG	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
136	MEN	T-1/ T-2	T	T	T/ GT	T	T/ GT	T	T	T	CL-4			
137	FAMILY	T-1	T	T	T	T	T	T	T	T	CL-4			
138	JAN	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-4			
139	WOMEN	T-1/ T-2	T	T	T	T	T/ GT	T	T/ GT	T	CL-4			
140	CORRIDOR	RF-3	WR/ PT	RB-1	WR/ PT	RB-1	WR/ PT	RB-1	WR/ PT	RB-1	CL-3			
141	MAINT	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
142	BUS CONT	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
143	MCHA	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
144	CBS CONT	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
145	W. LOCKER	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
146	M. LOCKER	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
147	NOT USED													
148	SUB OFFICE	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
149	ELECTRICAL	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
150	CORRIDOR	RF-3	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
151	COMM	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
152	NOT USED													
153	ELEV MACHINE	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
154	ELEV												Refer to Elevator Specifications	
155	REC/HEC	TER	DP-1/ DP-2/ PT	SST	DP-1/ DP-2/ PT	SST	DP-1/ DP-2	SST	DP-1/ DP-2	SST	CL-2			
156	BREAK	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
157	MEN	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	CL-4			
158	WOMEN	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	CL-4			
159	SEC. X-RAY	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
160	AG LAB	FT-2	PT	FT-2	PT	FT-2	PT	FT-2	PT	FT-2	CL-6			
161	INTERV.	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
162	ADIT	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
163	ROVER	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
164	STOR.	RF-2	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
165	INTERV.	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
166	OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
167	STOR.	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-7			
168	CORRIDOR	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	WR/ PT	FT-2	CL-6			
169	SEARCH	FT-1	PT	FT-1	PT	FT-1	PT	FT-1	PT	FT-1	CL-7			
170	HOLD ROOM	FT-1	FRP	FT-1	FRP	FT-1	FRP	FT-1	FRP	FT-1	CL-7			
171	HOLD ROOM	FT-1	FRP	FT-1	FRP	FT-1	FRP	FT-1	FRP	FT-1	CL-7			
172	DES	FT-2	PT	FT-2	PT	FT-2	PT	FT-2	PT	FT-2	CL-6			
173	MEN	FT-1	T	FT-1	T	FT-1	T	FT-1	T	FT-1	CL-4			
174	WOMEN	FT-1	T	FT-1	T	FT-1	T	FT-1	T	FT-1	CL-4			
175	ELEV M.	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-4			
176	TUG TUNNEL	SC-1	--	--	--	--	--	--	--	--	EX-1			
177	NOT USED													
178	TUG RAMP	SC-1	--	--	--	--	--	--	--	--	EX-1			
179	TUG RAMP	SC-1	--	--	--	--	--	--	--	--	EX-1			
180	OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
181	CASHER	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
182	CORRIDOR	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
183	BAG	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
184	BAG	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
REMARKS														
1														
2														
3														
GENERAL NOTES														
1														
2														
3														

INTERIOR MATERIAL SCHEDULE						
CODE TAG	MATERIAL	MANUFACTURER	SERIES	COLOR	DIMENSIONS	REMARKS
MILLWORK						
MLT-1	STAINLESS STEEL					
PL-1	PLASTIC LAMINATE					
PL-2	PLASTIC LAMINATE					
PL-3	PLASTIC LAMINATE					
PL-4	PLASTIC LAMINATE					
QS-1	QUARTZ SURFACING					
QS-2	QUARTZ SURFACING					
SSM-1	SOLID SURFACE					
SSM-2	SOLID SURFACE					
WD	WOOD					

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

FINISH NOTES FOR ALL AREAS RECEIVING NEW CONSTRUCTION:

1. ALL WALLS AND COLUMN ENCLOSURES TO BE PAINTED (PT-1) SATIN FINISH, UNLESS OTHERWISE NOTED.
2. ALL WALLS TO RECEIVE (VB-1) VINYL BASE, UNLESS OTHERWISE NOTED.
3. STEEL DOORS AND FRAMES TO BE PAINTED WITH A SEMI"GLOSS FINISH. ALL PAINTED DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL OTHERWISE NOTED. WOOD FRAMES TO BE STAINED AND VARNISHED. WOOD DOORS ARE TO BE FACTORY PRE-FINISHED TO MATCH (WD-1).
4. ALL FLOOR FINISH TO BE CARPET (CPT-1) UNLESS OTHERWISE NOTED.
5. GENERAL CONTRACTOR AND SUB-CONTRACTOR MUST NOTIFY ARCHITECT OF ANY MATERIALS REQUIRING LONG LEAD TIMES SO THAT THESE MATERIALS MAY BE ORDERED OR PRE-ORDERED TO ENSURE A TIMELY COMPLETION WITHIN THE OWNER'S CONSTRUCTION SCHEDULE.
6. NEW RESILIENT BASE TO BE 4" HIGH UNLESS OTHERWISE NOTED. RESILIENT BASE TO BE FURNISHED FROM A CONTINUOUS ROLL, AND INSTALLED WITH NO JOINTS. IF LENGTH TO BE INSTALLED IS GREATER THAN THE LENGTH OF OF THE LARGEST ROLL, PLACE JOINTS EQUAL DISTANCE FROM EACH OTHER. EXTERIOR CORNERS ARE TO BE FORMED CONTINUOUS WITH SAME COIL STOCK. NO PREFORMED CORNERS AND BACKREST.
7. RESILIENT BASE AT CARPET AREAS TO BE FLAT BASE. RESILIENT BASE AT HARD SURFACE FLOORS TO BE COVERED BASE.
8. PARTITIONS CONCEALED WITH MILLWORK CABINETRY TO BE TAPED, DRYWALL COMPOUND APPLIED, SANDED, SMOOTHED, AND PRIMED.
9. PROVIDE FINISH COAT OF PAINT AT ALL EXPOSED WALL SURFACE AREAS BEHIND APPLIED MILLWORK, FILE CABINETS, PANELS, ETC. DUE TO REVEALS, JOINTS, OPENINGS, END CONDITIONS, ETC. REVEAL COLOR TO BE FLAT BLACK UNLESS OTHERWISE NOTED.
10. ALL ACCESS PLATES, PANELS, BOXES, COVERS, MECH, CUH, BASEBOARD COVERS AND SUPPORTS TO BE FACTORY PRE-FINISHED AND TO RECEIVE SEMI- GLOSS FINISH TO MATCH WALL COLOR.
11. PRIOR TO APPLICATION OF PAINT, ALL SURFACES SHOULD BE PROPERLY PREPARED, TAPED, AND SANDED.
12. ALL GYPSUM REVEALS, CORNERS,AND TRANSITIONS TO BE FORMED WITH PVC FINISH BEADS. ALL BEADS ARE TO BE TAPED, DRYWALL COMPOUND APPLIED, AND SANDED SMOOTH.
13. FINISH FLOOR MATERIAL TO BE INSTALLED UNDER ALL MILLWORK. FLOOR FINISH TO RUN UP TO CABINET AND BUT INTO KNEE SPACES. BASE OF ROOM TO BE APPLIED TO CABINET AND EXPOSED CABINET AND SHALL BE FINISHED SAME AS CABINET BODY.
14. TRANSITIONS BETWEEN DISSIMILAR FLOOR FINISHES TO ALIGN UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED FLOOR LEVELING REQUIRED TO COMPLETE A QUALITY INSTALLATION. THE FLOORING CONTRACTOR IS RESPONSIBLE FOR LEVELING.
15. TRANSITIONS OCCURRING IN A DOOR OPENING SHALL BE INSTALLED SO THE TRANSITION OCCURS UNDER THE CENTER LINE OF OF THE DOOR IN THE CLOSED POSITION.
16. PROVIDE RESILIENT TRANSITION STRIPS AT ALL CARPET/ HARD SURFACE TRANSITIONS. FLOORING CONTRACTOR TO SUBMIT MANUFACTURER'S FULL LINE OF AVAILABLE COLORS FOR ARCHITECTS APPROVAL.
17. FLOORING CONTRACTOR TO PROVIDE CARPET SEAMING DIAGRAM TO ARCHITECT FOR REVIEW PRIOR TO CUTTING OR INSTALLATION.
18. REFER TO REFLECTED CEILING DRAWINGS FOR CEILING FINISHES AND LOCATIONS, HEIGHTS, ETC.
19. ALL EXISTING DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL BOTH INTERIOR AND EXTERIOR SIDES. EXISTING STAINED DOORS ARE TO BE TOUCH STAINED AND REVARNISHED.
20. PAINT ALL EXPOSED DUCTWORK, CONDUIT, PIPES, AND MECHANICAL ELECTRICAL EQUIPMENT.
21. STAIRS: PAINT ALL EXPOSED METAL INCLUDING, BUT NOT LIMITED TO STRINGERS, RISERS, AND TREAD PANS.

INTERIOR MATERIAL SCHEDULE						
CODE TAG	MATERIAL	MANUFACTURER	SERIES	COLOR	DIMENSIONS	REMARKS
FLOOR						
CPT-1	BROADLOOM					GENERAL AREAS
CPT-2	CARPET TILE					PUBLIC AREAS
CPT-3	CARPET TILE					PUBLIC AREAS
CPT-4	BROADLOOM					ADMIN LEVEL - OFFICES
CPT-5	BROADLOOM					ADMIN LEVEL - CONF ROOMS
FT-1	FLOOR TOPPING- FLAKE COATING SYSTEM					ANCILLARY SPACES
FT-2	FLOOR TOPPING- FLAKE COATING SYSTEM					ANCILLARY SPACES
RF-1	RESILIENT FLOORING					
RF-2	RESILIENT FLOORING					
RF-3	RESILIENT FLOORING					
SC-1	SEALED CONCRETE - NO STAIN					
SC-2	SEALED CONCRETE - STAINED					
TER-1	TERRAZZO FLOORING					
TER-2	TERRAZZO FLOORING					
TER-3	TERRAZZO FLOORING					
TER-4	TERRAZZO FLOORING					
T-1	PORCELAIN TILE- FLOOR					
T-2	PORCELAIN TILE- FLOOR					
BASE						
RB-1	RUBBER BASE- STANDARD PROFILE					
RB-2	RUBBER BASE- UPGRADED PROFILE					
SST	STAINLESS STEEL BASE					
WB	WOOD BASE					
WALLS						
DP-1	DECORATIVE PANELS- WOOD					
DP-2	DECORATIVE PANELS- WOOD					
DP-3	DECORATIVE PANELS- METAL					
DP-4	DECORATIVE PANELS- METAL					
FRP-1	FIBERGLASS REINFORCED PANEL					
GL-1	EXTERIOR GLAZING SYSTEM					
GL-2	INTERIOR GLAZING- NO PATTERN					
GL-3	GUARDRAIL GLASS					
GL-4	LAMINATED DECORATIVE GLASS W/ DOUBLE LAYER CUSTOM GRAPHIC					
GT-1	GLASS MOSAIC TILE					
GT-2	GLASS MOSAIC TILE					
PT	PAINT (NOT TO EXCEED 20 COLORS)					
T-3	PORCELAIN TILE- WALL					
T-4	PORCELAIN TILE- WALL					
T-5	PORCELAIN TILE- WALL					
T-6	PORCELAIN TILE- WALL					
WC	WALL COVERING					
WP	WALL PROTECTION - RIGID SHEET VINYL					
CEILING						
CL-1	SUSPENDED LINEAR METAL CEILING					
CL-2	WOOD GRILLE CEILING SYSTEM					
CL-3	MINERAL FIBER CEILING TILE					ANCILLARY SPACES
CL-4	WATERPROOF GYP BD- PAINTED					
CL-5	MINERAL FIBER CEILING TILE					ADMIN LEVEL
CL-6	GYP BD. - PAINTED					
CL-7	REINFORCED GYP BD.- PAINTED					
EX-1	EXPOSED CEILING - UNFINISHED					
EX-2	EXPOSED CEILING - PAINTED					



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Landscaping Consultants:  
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TEL: (218) 591-5079

ARCHITECTURAL CERTIFICATION  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 06-03-10 Reg. No.: 46001

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10  
REVIEWED BY: SBS/TC  
DRAWN BY: VO/MKI  
DESIGNED BY: SBS/TC

A&P PROJECT NUMBER  
213-1882-091  
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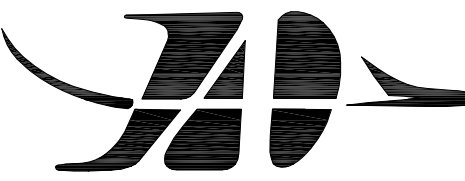
SHEET TITLE  
INTERIOR  
MATERIALS  
AND  
EQUIPMENT  
SCHEDULE  
SHEET NUMBER

A802

BUILDING  
PERMIT



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	BUILDING PERMIT	8.16.10

**DATE ISSUED: 08-16-10**

REVIEWED BY: SBS/TO

DRAWN BY: MKG/M

DESIGNED BY: SBS/TC

AEP PROJECT NUMBER

**213-1882-091**

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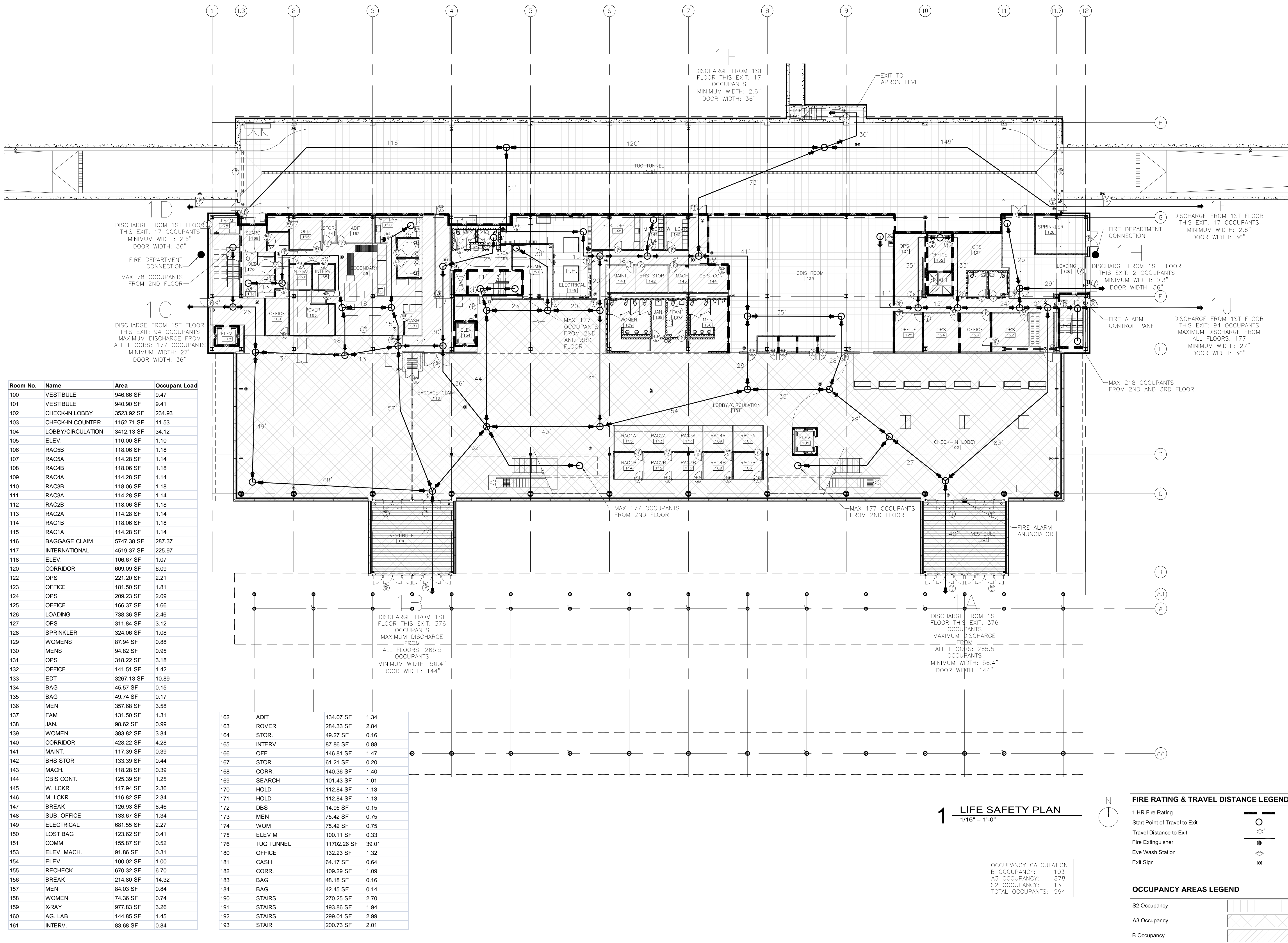
**SHEET TITLE**

# FIRST FLOOR LIFE SAFETY PLAN

SHEET NUMBER

# LS101

# BUILDING PERMIT







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3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

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REVIEWED BY: SBS/T

DRAWN BY: MKG/M

DESIGNED BY: SBS/T

AEP PROJECT NUMBER

**213-1882-09-**

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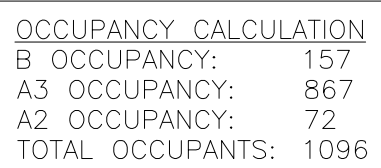
SHEET TITLE

## SECOND FLOOR LIFE SAFETY PLAN

SHEET NUMBER

# LS102

# BUILDING PERMIT



### FIRE RATING & TRAVEL DISTANCE LEGEND

1 HR Fire Rating  
Start Point of Travel to Exit  
Travel Distance to Exit  
Fire Extinguisher  
Eye Wash Station  
Exit Sign

### OCCUPANCY AREAS LEGEND

### B Occupancy

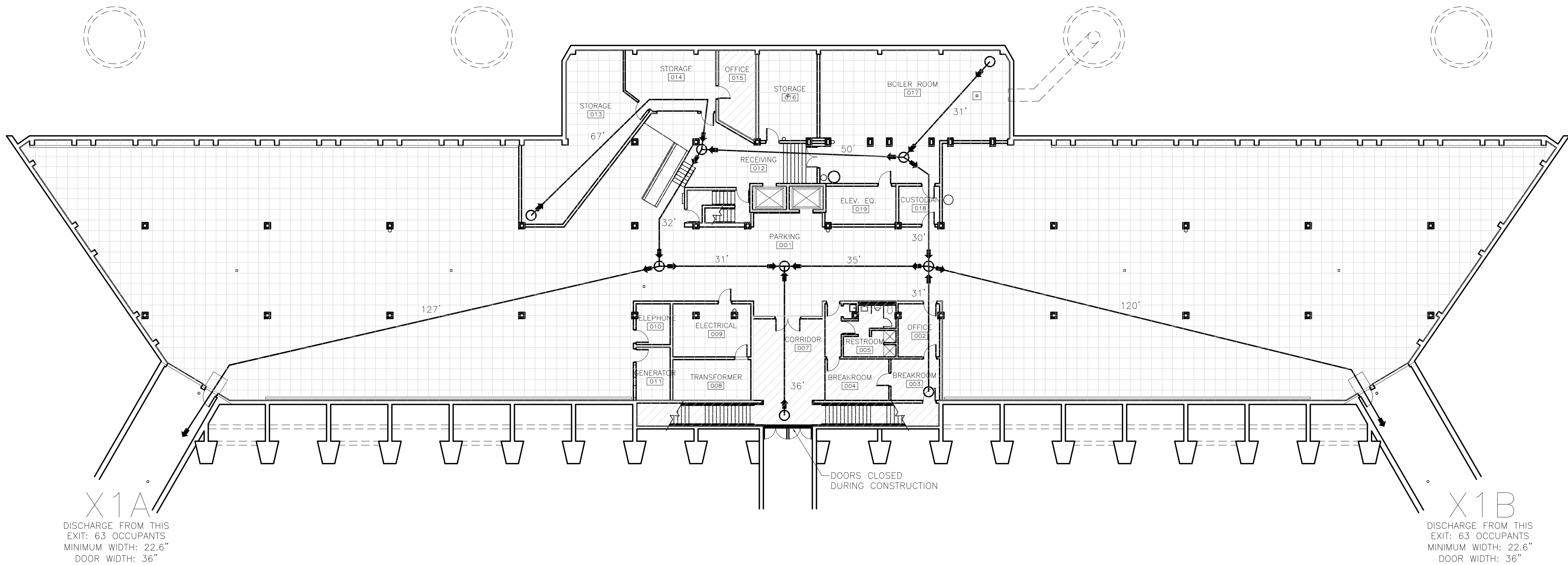
A2 Occupancy

### A3 Occupancy









X1A  
DISCHARGE FROM THIS  
EXIT: 63 OCCUPANTS  
MINIMUM WIDTH: 22.6"  
DOOR WIDTH: 36"

X1B  
DISCHARGE FROM THIS  
EXIT: 63 OCCUPANTS  
MINIMUM WIDTH: 22.6"  
DOOR WIDTH: 36"

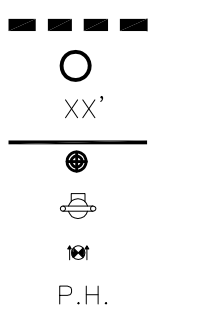
## 1 LIFE SAFETY PLAN

1/16" = 1'-0"

Room No.	Name	Area	Occupant Load
1	PARKING	18067.60 SF	90.34
2	MAINT. OFFICE	145.39 SF	1.45
3	BREAK ROOM	135.11 SF	1.35
4	BREAKROOM	175.65 SF	1.76
5	RESTROOM	165.93 SF	1.66
6	CORRIDOR	61.92 SF	0.62
7	CORRIDOR	867.67 SF	8.68
8	TRANSFORMER	210.67 SF	0.70
9	ELECTRICAL	269.92 SF	0.90
10	TELEPHONE	96.00 SF	0.32
11	GENERATOR	123.00 SF	0.41
12	RECIEIVING	972.84 SF	3.24
13	STORAGE	795.22 SF	2.65
14	STORAGE	355.21 SF	1.18
15	JAN.	15.58 SF	0.05
15	OFFICE	209.14 SF	2.09
16	STORAGE	355.00 SF	1.18
17	BOILER ROOM	1441.93 SF	4.81
18	CUSTODIAN	106.78 SF	0.36
19	ELEV. E.Q.	179.42 SF	0.60
20	ELEV	115.50 SF	1.15
21	STAIRS	144.90 SF	1.45

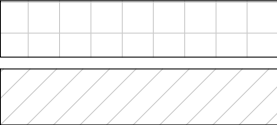
### FIRE RATING & TRAVEL DISTANCE LEGEND

1 HR Fire Rating  
Start Point of Travel to Exit  
Travel Distance to Exit  
Fire Extinguisher  
Eye Wash Station  
Exit Sign  
Panic Hardware



### OCCUPANCY AREAS LEGEND

S2 Occupancy  
B Occupancy



OCCUPANCY CALCULATION  
B OCCUPANCY: 20  
S2 OCCUPANCY: 106  
TOTAL OCCUPANTS: 126

NOTE:  
HORIZONTAL ACCESSIBLE EXITS  
TO EXTERIOR ACCOMMODATE  
MINIMUM EXIT REQUIREMENTS.  
ADDITIONAL ACCESSIBLE EXITS  
TO FIRST FLOOR ALSO  
AVAILABLE.

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Signature:

Date: 07-23-10 Reg. No.: 46001

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NO.	DESCRIPTION	DATE
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3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: TC

DRAWN BY: MI

DESIGNED BY: TC

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

**EXISTING  
BASEMENT  
LIFE SAFETY  
PLAN**

SHEET NUMBER

3

**LS110**

**BUILDING  
PERMIT**



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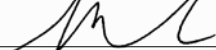
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**APPOLD DESIGN**  
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TEL: (218) 591-5079

**ARCHITECTURAL CERTIFICATION**  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature: 

Date: 08-16-10 Reg. No.: 46001

**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
2	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

REVIEWED BY: TC

DRAWN BY: MKI

DESIGNED BY: MKI

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

**FIRST FLOOR  
INTERIM  
LIFE SAFETY PLAN**

SHEET NUMBER

**LS111**

**BUILDING  
PERMIT**

Room No.	Name	Area	Occupant Load
100	VESTIBULE	946.66 SF	9.47
101	VESTIBULE	940.90 SF	9.41
102	CHECK-IN LOBBY	3523.92 SF	234.93
103	CHECK-IN COUNTER	1152.71 SF	11.53
104	LOBBY/CIRCULATION	3412.13 SF	34.12
105	ELEV.	110.00 SF	1.10
106	RAC5B	118.06 SF	1.18
107	RAC5A	114.28 SF	1.14
108	RAC4B	118.06 SF	1.18
109	RAC4A	114.28 SF	1.14
110	RAC3B	118.06 SF	1.18
111	RAC3A	114.28 SF	1.14
112	RAC2B	118.06 SF	1.18
113	RAC2A	114.28 SF	1.14
114	RAC1B	118.06 SF	1.18
115	RAC1A	114.28 SF	1.14
116	BAGGAGE CLAIM	5747.38 SF	287.37
117	INTERNATIONAL	4519.37 SF	225.97
118	ELEV.	106.67 SF	1.07
120	CORRIDOR	609.09 SF	6.09
122	OPS	221.20 SF	2.21
123	OFFICE	181.50 SF	1.81
124	OPS	209.23 SF	2.09
125	OFFICE	166.37 SF	1.66
126	LOADING	738.36 SF	2.46
127	OPS	311.84 SF	3.12
128	SPRINKLER	324.06 SF	1.08
129	WOMENS	87.94 SF	0.88
130	MENS	94.82 SF	0.95
131	OPS	318.22 SF	3.18
132	OFFICE	141.51 SF	1.42
133	EDT	3267.13 SF	10.89
134	BAG	45.57 SF	0.15
135	BAG	49.74 SF	0.17
136	MEN	357.68 SF	3.58
137	FAM	131.50 SF	1.31
138	JAN	98.62 SF	0.99
139	WOMEN	383.82 SF	3.84
140	CORRIDOR	428.22 SF	4.28
141	MAINT.	117.39 SF	0.39
142	BHS STOR	133.39 SF	0.44
143	MACH.	118.28 SF	0.39
144	CBIS CONT.	125.39 SF	1.25
145	W. LCKR	117.94 SF	2.36
146	M. LCKR	116.82 SF	2.34
147	BREAK	126.93 SF	8.46
148	SUB. OFFICE	133.67 SF	1.34
149	ELECTRICAL	681.55 SF	2.27
150	LOST BAG	123.62 SF	0.41
151	COMM	155.87 SF	0.52
153	ELEV. MACH.	91.86 SF	0.31
154	ELEV.	100.02 SF	1.00
155	RECHECK	670.32 SF	6.70
156	BREAK	214.80 SF	14.32
157	MEN	84.03 SF	0.84
158	WOMEN	74.36 SF	0.74
159	X-RAY	977.83 SF	3.26
160	AG. LAB	144.85 SF	1.45
161	INTERV.	83.68 SF	0.84

162	ADIT	134.07 SF	1.34
163	ROVER	284.33 SF	2.84
164	STOR.	49.27 SF	0.16
165	INTERV.	87.86 SF	0.88
166	OFF.	146.81 SF	1.47
167	STOR.	61.21 SF	0.20
168	CORR.	140.36 SF	1.40
169	SEARCH	101.43 SF	1.01
170	HOLD	112.84 SF	1.13
171	HOLD	112.84 SF	1.13
172	DBS	14.95 SF	0.15
173	MEN	75.42 SF	0.75
174	WOM	75.42 SF	0.75
175	ELEV M	100.11 SF	0.33
176	TUG TUNNEL	11702.26 SF	39.01
180	OFFICE	132.23 SF	1.32
181	CASH	64.17 SF	0.64
182	CORR.	109.29 SF	1.09
183	BAG	48.18 SF	0.16
184	BAG	42.45 SF	0.14
190	STAIRS	270.25 SF	2.70
191	STAIRS	193.86 SF	1.94
192	STAIRS	299.01 SF	2.99
193	STAIR	200.73 SF	2.01

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

**FIRE RATING & TRAVEL DISTANCE LEGEND**

1 HR Fire Rating  
Start Point of Travel to Exit  
Travel Distance to Exit  
Fire Extinguisher  
Eye Wash Station  
Exit Sign

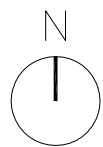
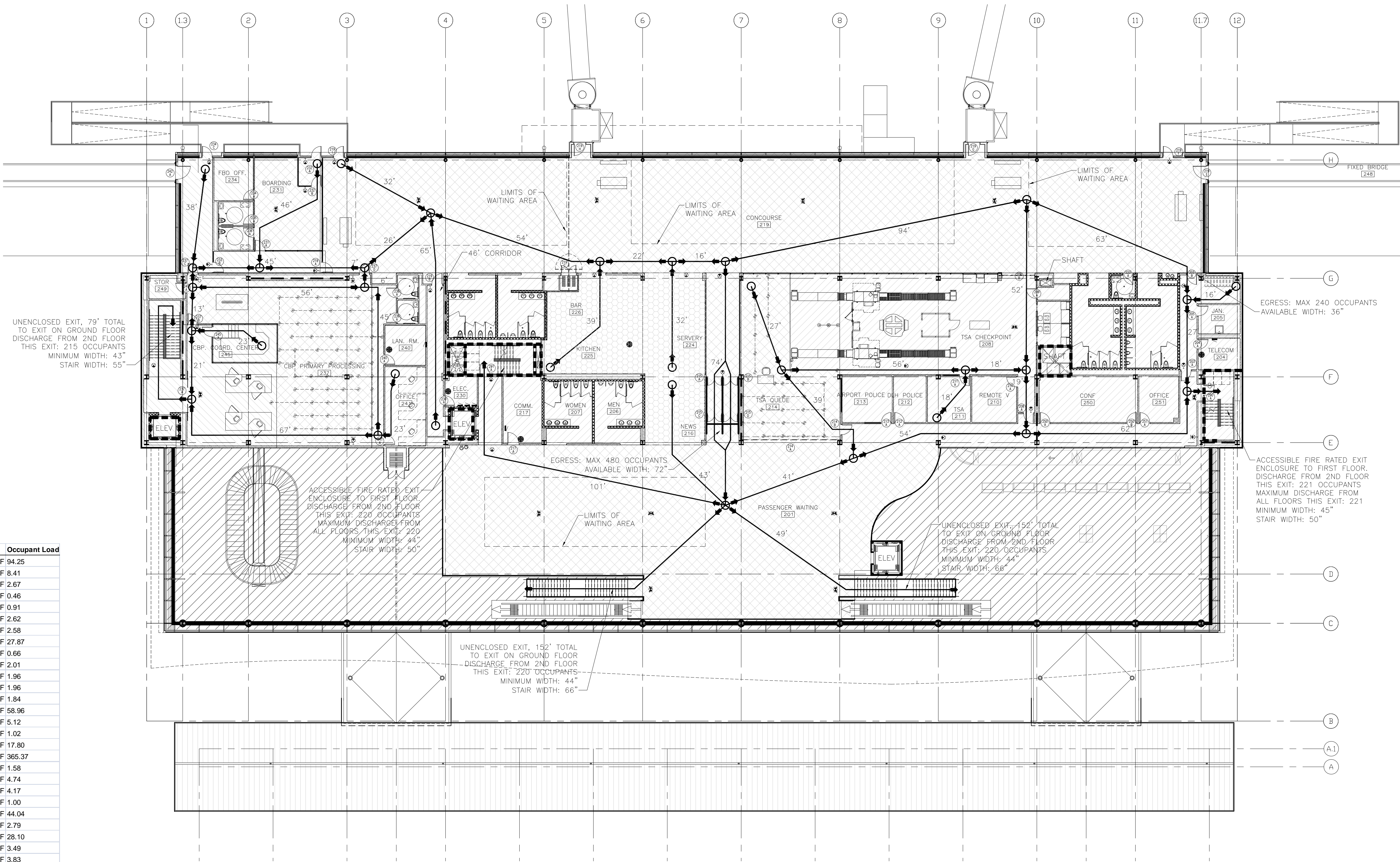
**OCCUPANCY AREAS LEGEND**

S2 Occupancy  
A3 Occupancy  
B Occupancy

OCCUPANCY CALCULATION  
B OCCUPANCY: 103  
A3 OCCUPANCY: 878  
S2 OCCUPANCY: 13  
TOTAL OCCUPANTS: 994



Room No.	Name	Area	Occupant Load
201	PAX WAITING - WAITING	1413.80 SF 94.25	
202	CORRIDOR	841.14 SF 8.41	
203	CORR.	267.39 SF 2.67	
204	TELECOM	136.94 SF 0.46	
205	ELEC.	273.28 SF 0.91	
206	MEN	262.31 SF 2.62	
207	WOMEN	257.82 SF 2.58	
208	TSA CHECKPOINT	2786.82 SF 27.87	
209	STOR	65.67 SF 0.66	
210	REMOTE V	201.16 SF 2.01	
211	TSA	196.31 SF 1.96	
212	AIRPORT POLICE	196.31 SF 1.96	
213	DLH POLICE	184.19 SF 1.84	
214	TSA QUEUE	884.39 SF 58.96	
215	DEPLANING	512.44 SF 5.12	
216	VEND	101.50 SF 1.02	
217	COMM.	266.97 SF 17.80	
219	CONCOURSE - WAITING	5480.50 SF 365.37	
220	VEND	158.26 SF 1.58	
221	MEN	474.15 SF 4.74	
222	WOMEN	416.75 SF 4.17	
223	FAM.	100.16 SF 1.00	
224	SERVERY	660.66 SF 44.04	
225	KITCHEN	557.46 SF 2.79	
226	BAR	421.45 SF 28.10	
227	MEN	348.89 SF 3.49	
228	WOMEN	382.55 SF 3.83	
229	CORR	317.67 SF 3.18	
230	ELEC.	97.18 SF 0.32	
231	BOARDING	529.11 SF 35.27	
232	VEST.	68.33 SF 0.68	
233	CORR.	623.57 SF 6.24	
234	FBO OFF.	195.22 SF 1.95	
235	WMN	99.01 SF 0.99	
236	MEN	99.02 SF 0.99	
237	INTERNATIONAL	3233.53 SF 215.57	
238	MEN	53.60 SF 0.54	
239	WMN	52.45 SF 0.52	
240	COMP.	161.76 SF 0.54	
241	OFFICE	315.88 SF 3.16	
245	ROVER	229.44 SF 2.29	
249	STOR	104.25 SF 0.35	
250	CONF	395.19 SF 26.35	
251	OFFICE	144.56 SF 1.45	
252	STOR.	49.33 SF 0.16	
253	WHLCHR	34.99 SF 0.12	
290	STAIRS	259.86 SF 2.60	
291	STAIRS	196.09 SF 1.96	
292	STAIRS	314.47 SF 3.14	
293	JAN	41.41 SF 0.14	
201A	PAX WAITING - CIRCULATION	5222.44 SF 52.22	
219A	CONCOURSE - CIRCULATION	4528.81 SF 45.29	



# 1 LIFE SAFETY PLAN

1/16" = 1'-0"

## FIRE RATING & TRAVEL DISTANCE LEGEND

1 HR Fire Rating  
Start Point of Travel to Exit  
Travel Distance to Exit  
Fire Extinguisher  
Eye Wash Station  
Exit Sign

## OCCUPANCY AREAS LEGEND

B Occupancy  
A2 Occupancy  
A3 Occupancy

OCCUPANCY CALCULATION  
B OCCUPANCY: 157  
A3 OCCUPANCY: 867  
A2 OCCUPANCY: 72  
TOTAL OCCUPANTS: 1096

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Reynolds, Smith and Hills, Inc.  
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Duluth, Minnesota 55811  
218-722-1227 Fax: 218-722-1052  
www.rsandh.com

**DULUTH INTERNATIONAL AIRPORT**  
DULUTH, MN

**DULUTH INTERNATIONAL AIRPORT**  
DULUTH, MN

**NEW PASSENGER TERMINAL**

## CONSULTANTS

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

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

M/E/P/F Engineers:  
**COSENTINI ASSOCIATES INC.**  
1 South Wacker Drive, 37th Floor, Chicago IL 60606  
TEL: (312) 201-7408 / FAX: (312) 201-0031

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

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

ARCHITECTURAL CERTIFICATION  
I hereby certify that the architectural plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Architect under the laws of the State of Minnesota.

Print Name: Mark Ip

Signature:

Date: 08-16-10 Reg. No.: 46001

## REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
	CONFORMANCE SET	7.12.10
3	PERMIT REVISIONS	7.23.10
	BUILDING PERMIT	8.16.10

DATE ISSUED: 08-16-10

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DRAWN BY: MKI

DESIGNED BY: MKI

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

**SECOND FLOOR INTERIM LIFE SAFETY PLAN**

SHEET NUMBER

**LS112**

**BUILDING PERMIT**







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

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

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

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

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

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

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

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

The special inspectors shall be provided and shall only use approved shop drawings.

Special inspection reports are to be submitted immediately to the SER, Architect, and Contractor daily when inspections are performed.

The general contractor shall provide timely notice to the special inspector and sufficient time for the inspector to perform their inspection.

SHOP DRAWINGS:  
All engineering design provided by others and submitted for review shall bear the certification stamp and signature of a qualified professional engineer who is licensed in the state of Minnesota.

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

DEFERRED SUBMITTALS:  
The following items shall be issued as deferred submittals per IBC: Steel Connections

Light gage metal framing

All items issued as deferred submittals shall be issued a minimum of 30 days prior to installation and shall not be installed until their design and submittal documents have been reviewed for general conformance to the drawings by the general contractor, the engineer of record and the building official. A copy of the deferred submittal shall be forwarded to the city after the engineer of record has reviewed the documents and prior to erection of the deferred submittal items.

DESIGN CODES AND STANDARDS:  
Minnesota State Building Code, MSBC 2007

2006 International Building Code, as amended and adopted by the MSBC 2007

ACI 318-05 Building Code Requirements for Reinforced Concrete

ACI 530-05 Building Code Requirements for Masonry Structures, Allowable Stress Design

ACI 530.1-05 Masonry Structures

AISC 360-05 Specification for Structural Steel Buildings

AISI NAS-01 North American Specification for the design of Cold-Formed Steel Structural Members including 2004 supplement.

ASCE 7-05 Minimum design loads for buildings and other structures including supplement NO. 1 and excluding Chapter 14 and Appendix 11A.

ASCE 3-01 Structural Design of Composite Slabs

MATERIAL PROPERTIES:  
Reinforcing Steel (Fy):  
Typical 60,000 psi  
Weldable 60,000 psi  
ATSM A615 Grade 60  
ASTM A706 Grade 60

Cast-in-Place Concrete (f'c) at 28 days, UNO:

Controlled Low Strength Material (CLSM)	1,200 psi (at 5 days)	Maximum
Footings	500 psi (at 5 days)	Minimum
Piers and Walls	4,000 psi	
Columns	4,000 psi	
Concrete placed over Metal Floor Deck	4,000 psi	
Slabs on Grade	4,000 psi	
Exterior Concrete	4,000 psi	
Masonry Corefill Concrete	3,000 psi	
All Concrete not otherwise noted	4,000 psi	

Concrete Masonry- Prism (f'm):  
Typical Units: 2,000 psi

Structural Steel (Fy):	50,000 psi	ASTM A992
Wide Flanges	36,000 psi	ASTM A36
Angles, Channels	46,000 psi	ASTM A500
Grade B Rectangular HSS	42,000 psi	ASTM A500
Grade B Round HSS	35,000 psi	ASTM A53
Grade B Steel Pipe	50,000 psi	ASTM A572 or A36 as indicated
Plates, Bars		

Structural Fasteners:  
Typical High-Strength Bolts 92,000 psi  
High-Strength Bolts as noted on plan 150,000 psi  
Grade 36 Anchor Rods, UNO 36,000 psi  
Threaded Rods 36,000 psi  
Direct-Tension Indicator Washers as noted on plan ASTM A325  
ASTM A490  
ASTM F1554  
ASTM A36  
ASTM F959

Cold-Formed Light Gauge Metal Framing (Fy):  
Studs, Joists, Braces-16 ga. and heavier 50,000 psi  
Studs, Joists, Braces-18 ga. and lighter 33,000 psi  
Track, Channels and Accessories 33,000 psi  
ASTM A653  
ASTM A653  
ASTM A653

DESIGN LOADS:  
LATERAL LOADS:  
Primary Frame Wind Data:  
Basic Wind Speed: 90 mph  
Wind Importance Factor: 1.15  
Exposure: C  
Primary Seismic Data: No design required

Component Loads:  
Exterior Component/Cladding: Supplier to develop based on MSBC 2007 and to indicate on shop drawings.

GRAVITY LOADS:  
Roof Snow Load:  
Ground Snow Load, Pg: 60 psf  
Flat-Roof Snow Load, Pf: 46 psf  
Snow Exposure Factor, Ce: 0.70  
Snow Load Importance Factor, I: 1.1  
Unbalanced/Drift Snow Load: As required by ASCE 7

Floor Loads:  
Live Load: 100 psf (not reducible)  
Hanging loads at underside of 2nd floor: 40 psf superimposed

Stairs, Corridors and Lobbies: 100 psf (not reducible)  
Stair Tread Concentrated Load: 300 lbs

Mechanical Rooms: 150 psf (not reducible)

Exterior Site Surcharge Loads:  
Fire Trucks: 250 psf  
Sidewalk: 250 psf  
North terminal retaining wall and north tug tunnel retaining wall: HS20-44 axle load as defined by IBC 2006 table 1607.6 at a distance of 5 feet from the north wall edge.

Provisions For Future Expansion:  
Design for additional 30' bay (3 story) between grids "E" and "G", east of grid 12 and west of grid 1.

Design for one story expansion of 3rd floor office space north of grid "G".

FOUNDATIONS:  
Refer to Geotechnical report number AET #07-04216.2 by American Engineering Testing, Inc., dated October 14, 2009 and the subsequent addendum (AET project #07-04216.3) dated January 29, 2010.

The contractor shall verify the location of all existing and new underground utilities and tanks prior to beginning excavation and contact Gopher State One Call.

The minimum dimension from exterior grade to bottom of footing and foundation shall be 72" in unheated areas.

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

See geotechnical report for water table elevations. Contractor to make adequate provisions for dewatering as required.

CONVENTIONAL FOOTINGS:  
Footings are designed for a maximum allowable soil bearing pressure of 8000 pounds per square foot on undisturbed native soil or lean mix concrete/controlled low strength material fill. Soil bearing pressure is to be verified in the field during construction by a qualified Geotechnical Engineer.

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

All excavations shall be observed by a qualified geotechnical engineer to verify removal of unsuitable material and confirm the proper preparation of bearing conditions.

For footings that do not bear on natural undisturbed soil, extend engineered fill laterally beyond bottom edge of footing for a distance equal to the depth of engineered fill. Reference drawings for details.

Foundation and retaining walls shall be back filled with free draining fill approved by the Geotechnical Engineer. Provide drain tile required by the contract documents and verify with architect and civil engineer.

Backfill equally on both sides of foundation walls to prevent overturning or lateral wall movement, or temporarily brace as necessary until permanent bracing elements are complete and cured to design strength.

All temporary bracing, cribbing, shoring or underpinning not fully designed or detailed on these drawings shall be designed by a licensed specialty engineer engaged directly by the contractor.

For stepping of wall footings reference drawings for detail.

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

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

Provide suitable wire spacers, chairs, etc. for support of reinforcing steel in proper position while placing concrete. All bars shall be tied to prevent displacement while placing concrete. All chairs and slab bolsters shall be plastic or steel with plastic tips. When reinforcing steel is epoxy coated or p/t tendons are fully encapsulated, all chairs and slab bolsters shall be epoxy coated or plastic and all support bars shall be epoxy coated. Chairs are to be stable and resist tipping. Acceptable products are GTI or approved equal.

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

No horizontal construction joints shall be placed in beams, joists, or slabs, unless shown on drawings.

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

Refer to drawings and ACI 318 Chapter 6 for placement guidelines of embedded pipes, sleeves, and conduits. Conduits are not permitted in slabs 3 inches or less in thickness. The maximum size of conduits within any slab shall be 1 1/4" outside diameter and shall be spaced no closer (to each other or any reinforcing steel) than 4" unless prior approval is obtained from the structural engineer. Additional reinforcing steel and chairs may be required to support embedded conduit. All conduit shall be placed in the middle 1/3 of the slab thickness above the metal deck, typical. Conduit may not be tied to parallel reinforcing steel. Conduit may not be placed in deck flutes. Conduit may not cross within slabs 5" or less in thickness. Conduit placement drawings may be required in areas of high conduit concentration.

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

The general contractor shall notify the Special Inspector a sufficient period in advance of placing concrete to allow required inspections and testing to occur in a timely fashion.

Formwork and all shoring for flatwork shall be left in place until the concrete reaches at least 75 percent of the 28-day compressive strength. Design of shoring and reshoring is the responsibility of the contractor and shall conform to ACI 347R-88.

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

Exterior concrete to have 6% +/- 1% entrained air.

Calcium chloride is not permitted as a concrete additive.

Concrete Cover on Reinforcing:

Topping Slab: 3/4" clear top. See drawings for cover at composite slabs  
Slab on Grade: 3" bottom

Footings: 3" clear bottom and sides  
2" clear top  
Walls: #5 and smaller 1 1/2" clear earth or weather face  
#6 and greater 2" clear earth or weather face  
3/4" interior face  
Columns and Beams: 1 1/2" clear to ties or stirrups

CONCRETE SLABS ON GRADE:

Slabs on grade shall be placed in lane fashion.

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

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

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

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

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

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

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

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

Refer to the specification for slab on grade pre-placement meeting.

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

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

REINFORCED MASONRY:  
All masonry units are placed in running bond fashion. Corners shall have a standard bond by overlapping units.

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

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

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

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

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

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

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

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

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

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

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

Masonry cement mortar is not allowed.

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

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

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

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

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

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

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

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

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

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

Extend horizontal reinforcing full length.

Grout masonry beams solid. Mechanically vibrate grout in place.

EXPANSION AND ADHESIVE ANCHORS:

Anchor in concrete or concrete masonry when not exposed to earth, weather, or corrosive environment shall be as noted below:

Expansion anchors shall be stud type with a single piece three section wedge and zinc plated in accordance with ASTM B633.

Threaded anchor rod for adhesive anchors in concrete shall be ASTM A193, Grade B7, or ASTM A36, as noted in the drawings. The adhesive used for anchors shall be a structural grade, two part epoxy or acrylic material that meets the requirement of ASTM C-881 Types I, II, IV, and V, Grade 3, Classes B and C as noted on plans.

Holes shall be drilled with a bit and cleaned using a method that complies with the manufacturer's guidelines, and specifications. Do not cut or damage reinforcing steel or P-T tendons.

Upon the request of the structural engineer the anchors shall be proof tested by the manufacturer to verify capacity of anchors that do not meet the conditions in the construction documents.

Minimum embedment depths in concrete and concrete masonry for expansion and adhesive anchors shall be as noted below:

Concrete base material:  
For 1/2", 5/8", and 3/4" diameter expansion anchors provide 4 3/4" embed, UNO on plan.

For 1/2" and 5/8" diameter adhesive anchors provide 5" embed. For 3/4" diameter adhesive anchors provide 7" embed, UNO on plan.

Grouted solid concrete masonry unit material:  
For 1/2", 5/8", and 3/4" diameter expansion anchors provide 4 3/4" embed, UNO on plan.

For adhesive anchors refer to the product's ICBO Report.

Pre-approved manufacturer are as follows: HILTI, ITW/Ramse/Redhead, Powers Fasteners, and Simpson Strong-Tie. For review of alternate products, submit manufacture's product data and product's current ICBO report prior to construction.

Anchor in concrete or concrete masonry when exposed to earth, weather, or corrosive environment shall be manufactured from AISI 304/316 Stainless Steel.

STRUCTURAL STEEL:  
Structural steel shall be detailed, fabricated and erected in compliance with AISC Specification for the design, fabrication, erection of structural steel for building, and Code of standard practices, and OSHA steel erection standards.

All beams and girders shall be cambered at mid-span as indicated on the structural drawings. The cambers indicated shall be present in the beam in its erected position after completion of the end connections and shall be verified prior to placing concrete. Cambering tolerances shall be (-0", +1/4"). No center point cambering allowed.

Splicing structural members where not detailed on the drawings is prohibited without prior approval of the structural engineer.

Modification of structural steel members in the field is not allowed without written approval by the structural engineer.

All composite beams using the concrete slab as a compression flange are designed for unshored construction unless noted otherwise.

Anchor rods shall be minimum 3/4" diameter or as detailed in drawings.

STRUCTURAL STEEL CONNECTIONS:  
All steel connections shall be designed by the steel fabricator for the criteria indicated on the drawings unless noted or detailed otherwise. Connection design shall conform to the requirements of the AISC Specifications for the design, fabrication, erection of structural and OSHA regulations. Submit calculations certified by a Professional Engineer who is licensed in the state of Minnesota. All loads indicated on the drawings are unfactored, working loads.

Non-composite beams: Unless noted otherwise, design simple beam shear connections per the AISC Manual connection tables. The required end reaction shall be based on the reactions indicated on the plans. Design connections for the reactions indicated on plan or for the minimum connection requirements indicated in the Connection Schedule, whichever provides the greater capacity.

Composite beams: Design simple composite beam shear connections per the AISC Manual connection tables UNO. Design connections for the reactions indicated on the plans or the minimum connection requirements indicated in the Connection Schedule, whichever provides the greater capacity.

Unless detailed otherwise, beam shop connections may be welded or bolted and field connections are to be bolted. Bolts shall be a minimum 3/4" diameter for connections specified or detailed in the drawings. The fabricator may submit an alternate connection with the calculations that is certified by a professional engineer who is licensed in the state of Minnesota.

All beam web copes must be made to a 1 inch minimum radius.

Welded connections shall be made in accordance with ANSI/AWS D1.1 Structural Welding Code using E70XX electrodes unless noted otherwise. Weld sizes not shown or controlled by the required forces shall be AWS code minimum size. Welds shall be visually inspected for compliance with the AWS code visual inspection criteria. Welders shall be qualified in accordance with ANSI/AWS D1.1 and shall be experienced in weld in structural steel.

Full penetration welds shall be tested using NDT methods such as ultrasonic, magnetic particle or other methods referenced in the AWS code. Welds subject to NDT methods shall also have been found compliant with the AWS visual inspection criteria.

STRUCTURAL STEEL STAIRS:  
Structural steel stair stringers, components, railings, posts, hangers, and connections to be designed by the fabricator's Qualified Professional Engineer for the loads indicated in the specifications. Configuration of stringers and railings shall be as indicated on the architectural drawings. Channel stringers to have a minimum 12" depth and a minimum 1 1/2" flange width.

STEEL ROOF DECK:  
Manufacturer shall be a current member of the Steel Deck Institute (SDI).

Detail, manufacture and install steel roof deck and accessories in accordance with the SDI specifications and codes and OSHA requirements.

Steel roof deck shall be as noted on plan.

Welding shall be in accordance with AWS D1.3. Welders shall be qualified in accordance with AWS D1.3.

Where spray-on fireproofing of the deck is required, the contractor shall verify that the deck finish is compatible with the proposed fireproofing material to ensure proper bonding of the fireproofing. Coordinate fireproofing locations and requirements with the architect.

All steel deck shall span a minimum of three spans, unless otherwise approved by the engineer. Deck ends are to be lapped over supports.

Contractor shall verify the location and extent of acoustical steel deck with the architectural drawings.

Reference drawings for detail on steel roof deck fastening requirements unless noted otherwise. Powder actuated or pneumatically driven fasteners are not allowed.

Provide reinforcement or frames for deck openings as indicated on the drawings.

LIMITATIONS ON M/E SUPPORT FROM PRIMARY STRUCTURE:  
All M/E systems shall be supported from the primary structural frame, unless noted otherwise. Do not connect to roof deck, floor slabs, or secondary members unless specifically allowed on the structural construction documents.

All M/E support systems, hangers, brackets and connections to the primary structural frame shall be designed, provided and installed by the M/E contractor, unless noted otherwise on the structural construction documents.

All M/E supports and connections for loads in excess of 300 lbs shall be designed by a structural engineer licensed in the state of Minnesota and engaged by the M/E contractor.

COMPOSITE STEEL FLOOR DECK:  
Manufacturer shall be a current member of the Steel Deck Institute (SDI). Composite steel floor deck shall be as noted on plan.

Detail, manufacture and install composite steel floor deck and accessories in accordance with the SDI specifications, codes and OSHA steel erection standards.

Refer to drawings for composite steel floor deck fastening requirements unless noted otherwise. Powder actuated or pneumatically driven fasteners are not allowed.

Provide and install pour stops, column closures, end closures, cover plates and girder fillers and other accessories as required by the SDI unless otherwise indicated or detailed.

Where spray-on fireproofing of the deck is required, the contractor shall verify that the deck finish is compatible with the proposed fireproofing material to ensure proper bonding of the fireproofing. Coordinate fireproofing locations and requirements with the architect.

Provide reinforcement or frames for deck openings as indicated on the drawings.

Do not cut control joints in structural slabs on metal deck.

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TEL: (218) 591-5079

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Paul A. Johnson

Signature: *Paul A. Johnson*

Date: June 3, 2010 Reg. No.: 20379

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum 1	06-10-10
	Conformance Set	07-12-10
	Building Permit	08-16-10

DATE ISSUED: 08-16-10

REVIEWED BY: PAJ / CWB

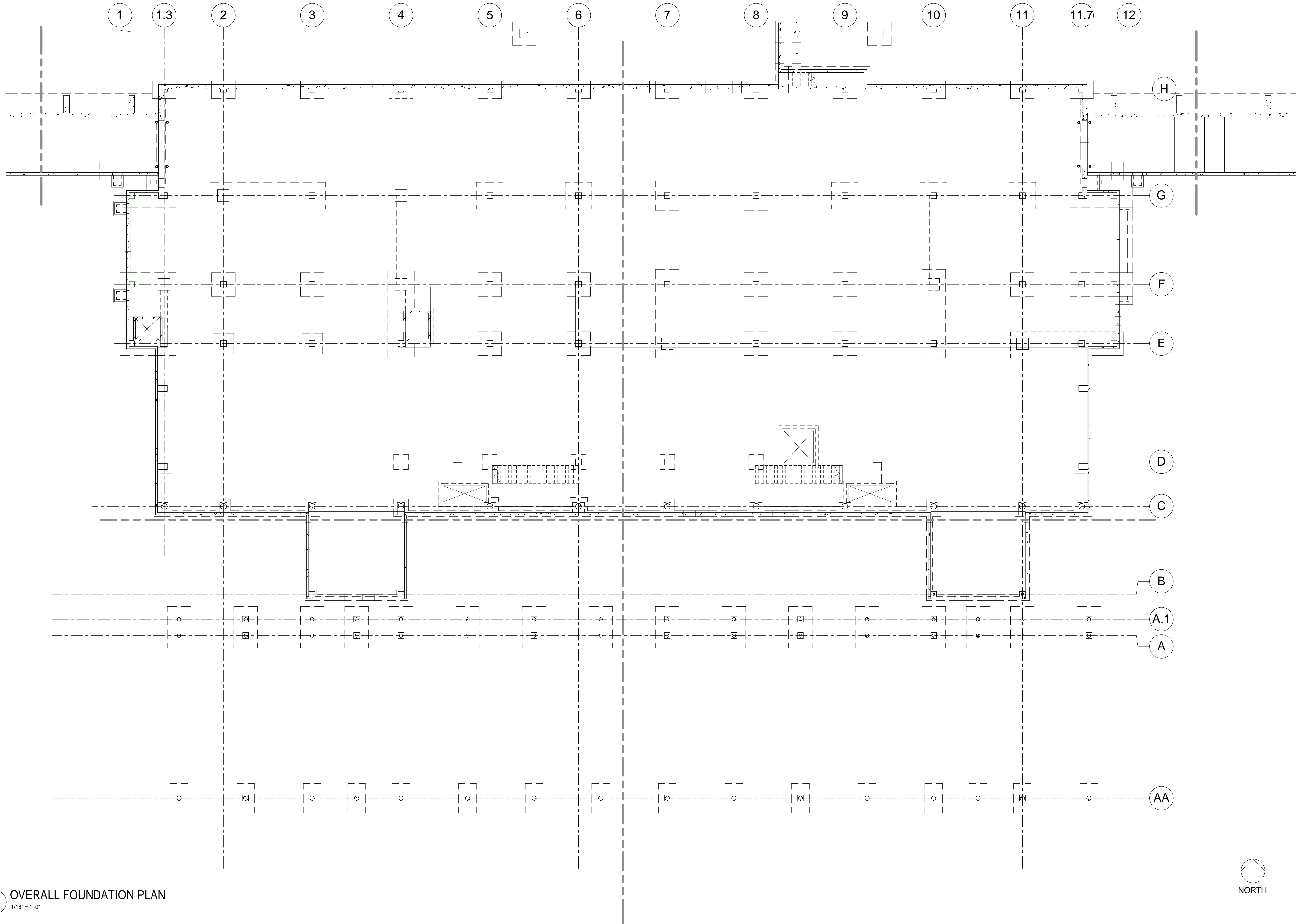
DRAWN BY: SJL

DESIGNED BY: CWB

AEP PROJECT NUMBER



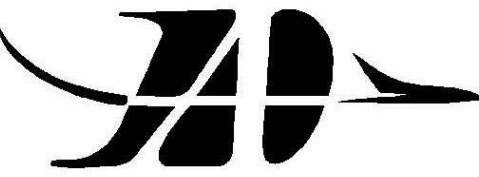




1 OVERALL FOUNDATION PLAN  
1/16" = 1'-0"



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DATE ISSUED: 08-16-10

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DRAWN BY: SJL

DESIGNED BY: CWB

AEP PROJECT NUMBER

213-1882-091

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SHEET TITLE

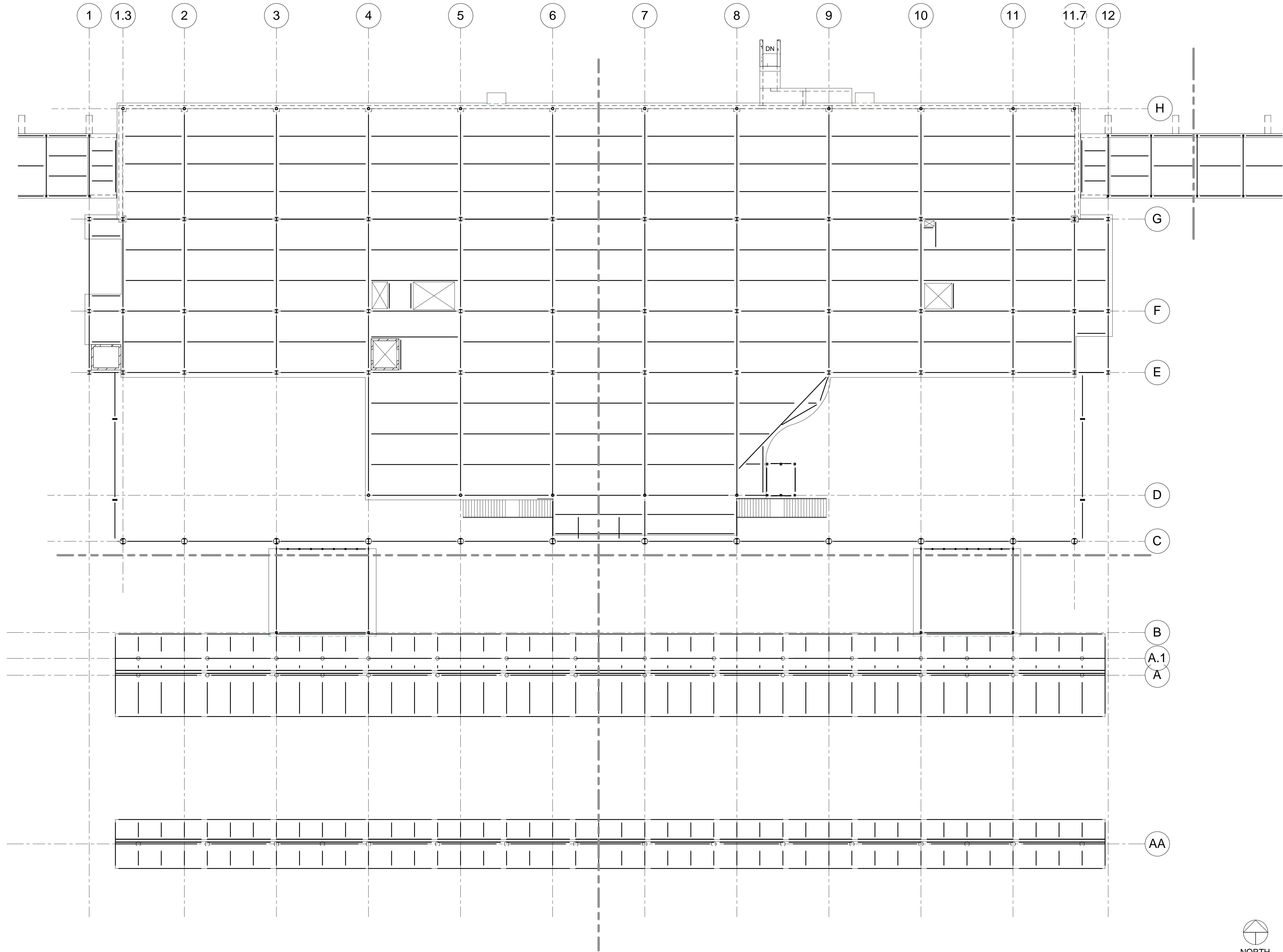
OVERALL FIRST  
LEVEL FLOOR  
PLAN

SHEET NUMBER

S101

BUILDING  
PERMIT





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



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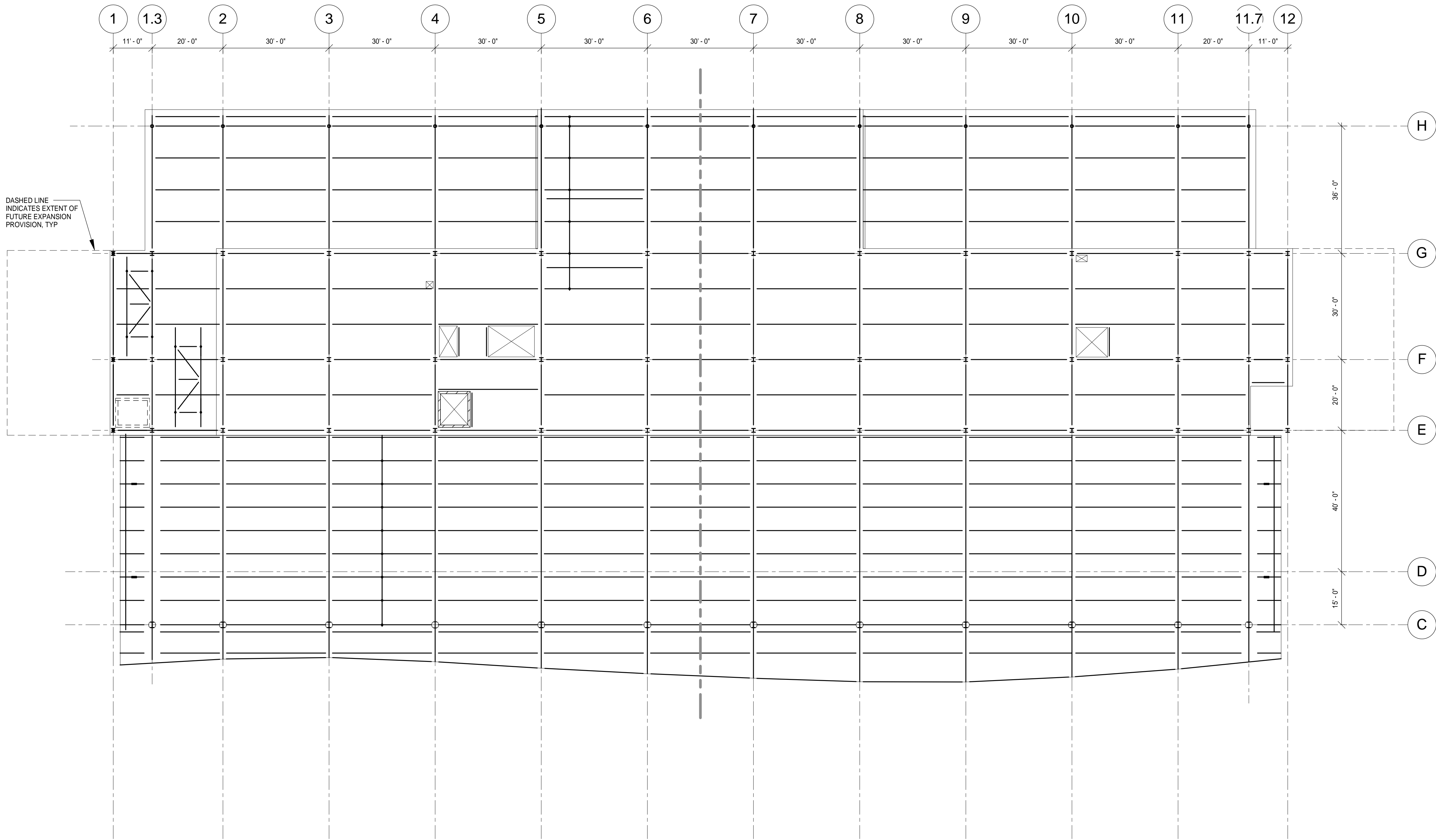
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SHEET TITLE  
**OVERALL  
SECOND LEVEL  
FLOOR PLAN**

SHEET NUMBER

**S102**

**BUILDING  
PERMIT**



1 OVERALL THIRD LEVEL FLOOR PLAN  
1/16" = 1'-0"



**CONSULTANTS**

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DRAWN BY: SJL

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**SHEET TITLE**  
**OVERALL THIRD  
LEVEL FLOOR  
PLAN**

**SHEET NUMBER**

**S103**

**BUILDING  
PERMIT**

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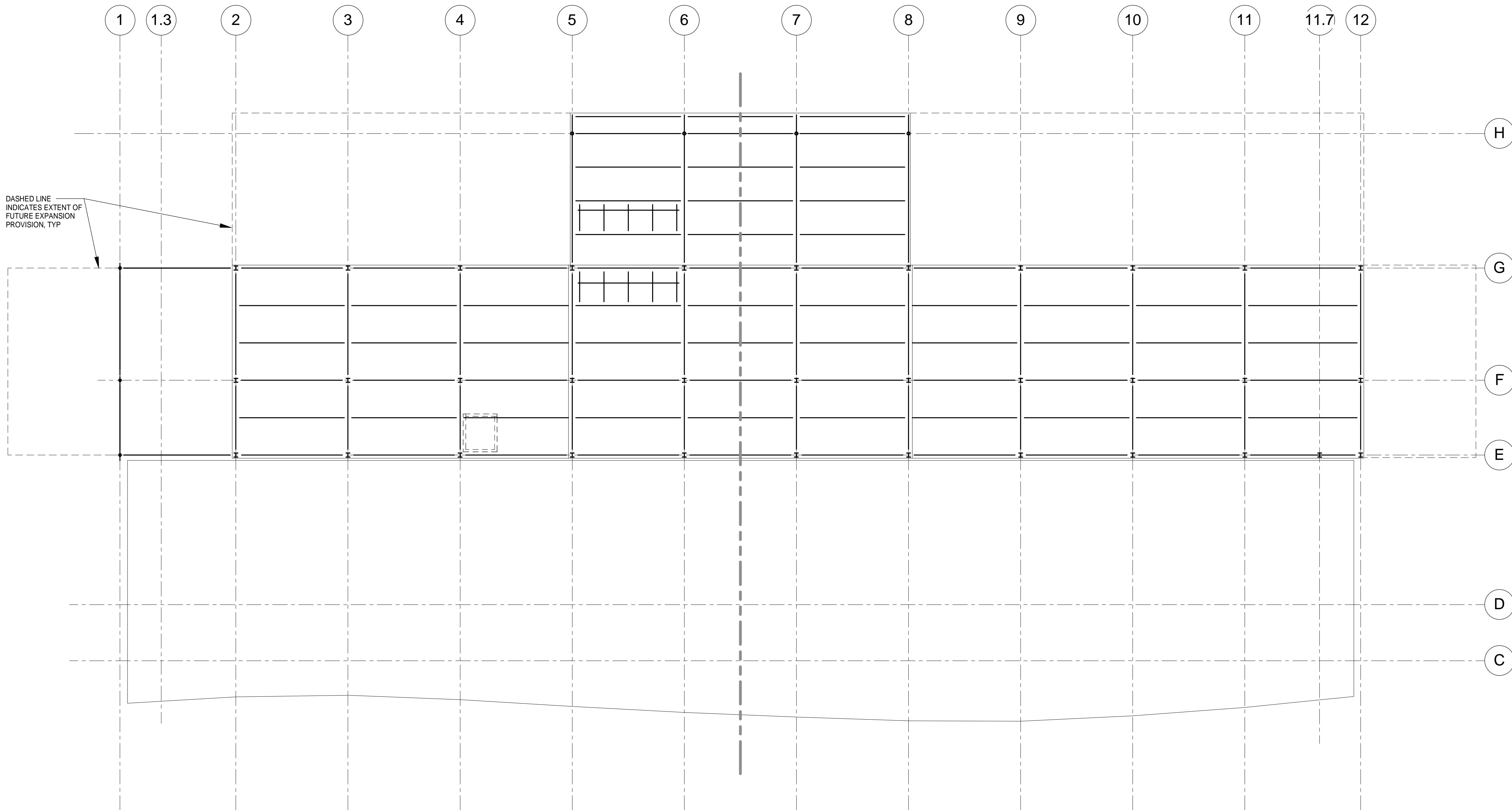
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**SHEET TITLE**  
**OVERALL ROOF  
LEVEL PLAN**

**SHEET NUMBER**

**S104**

**BUILDING  
PERMIT**



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



# BUILDING PERMIT



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Print Name: Paul A. Johnson

Signature: Todd Johnson

Date: June 3, 2010      Reg. No.: 20379

## REVISIONS

[illegible]

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DESIGNED BY: CWB

AEP PROJECT NUMBER

213-1882-091

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**SHEET TITLE**

SHEET TITLE  
**CANOPY**

## CANOPY

## FOUNDATION

## PLAN - AREA B

### PLAN - AREA B

\_\_\_\_\_

\_\_\_\_\_

SHEET NUMBER

**SHEET NUMBER**  
**S107**

3107

\_\_\_\_\_

## BUILDING

## BUILDING PERMIT

## PERMIT

\_\_\_\_\_

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



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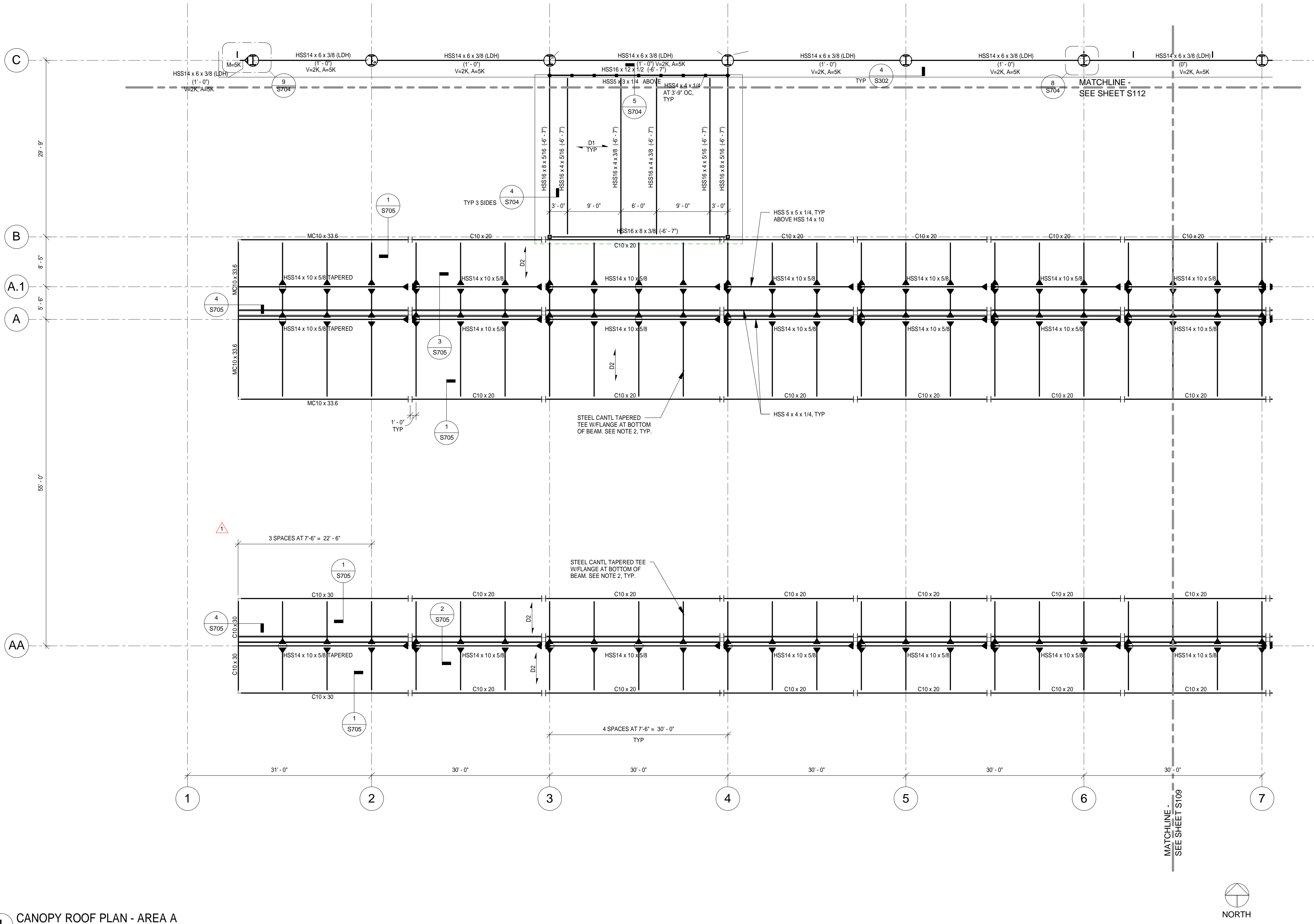
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**SHEET TITLE**  
**CANOPY ROOF  
FRAMING PLAN -  
AREA A**

**SHEET NUMBER**

**S108**

**BUILDING  
PERMIT**



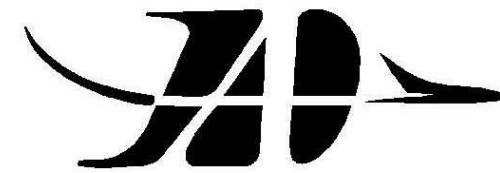
**1 CANOPY ROOF PLAN - AREA A**

1/8" = 1'-0"

**NOTES:**

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

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



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INTERNATIONAL  
AIRPORT  
DULUTH, MN

NEW TERMINAL  
DESIGN

CONSULTANTS

Interior Architects:

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DESIGNED BY: CWB

AEP PROJECT NUMBER

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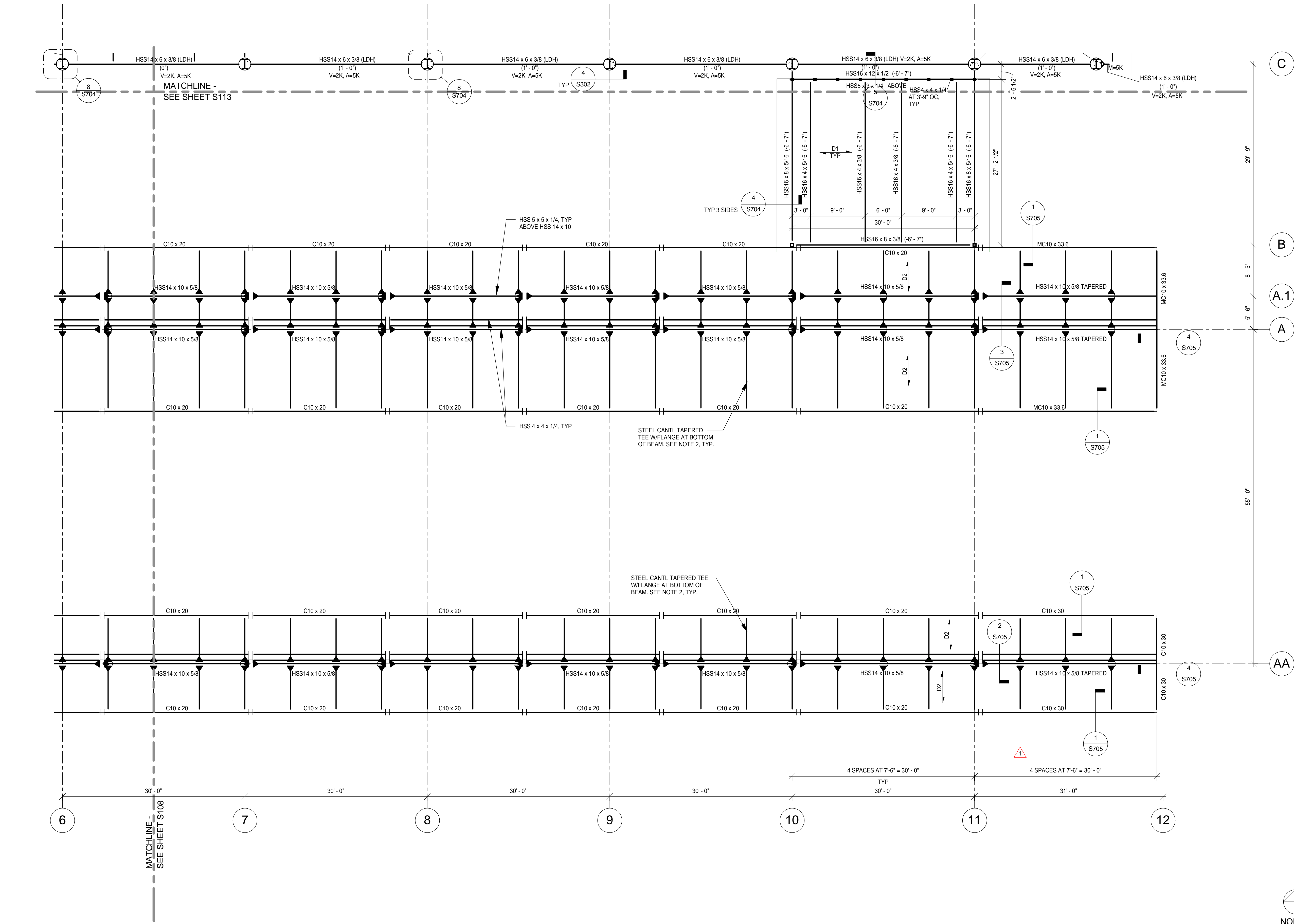
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SHEET TITLE  
**CANOPY ROOF  
FRAMING PLAN -  
AREA B**

SHEET NUMBER

**S109**

**BUILDING  
PERMIT**



**1 CANOPY ROOF PLAN - AREA B**

1/8" = 1'-0"

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

d max = 14"

d min = 6"

bf = 12"

tf = 1 3/8"

tw = 3/4"

Fy = 50 ksi



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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Paul A. Johnso

Signature: Tad A Johnson

Date: June 3, 2010      Reg. No.: 2037

## REVISIONS

[illegible]

**DATE ISSUED:** 08-16-10

REVIEWED BY: DAJ / CMB

REVIEWED BY: PAJ / CWB

**DRAWN BY:** SJL

AFP PROJECT NUMBER

LET PROJECT ROOM

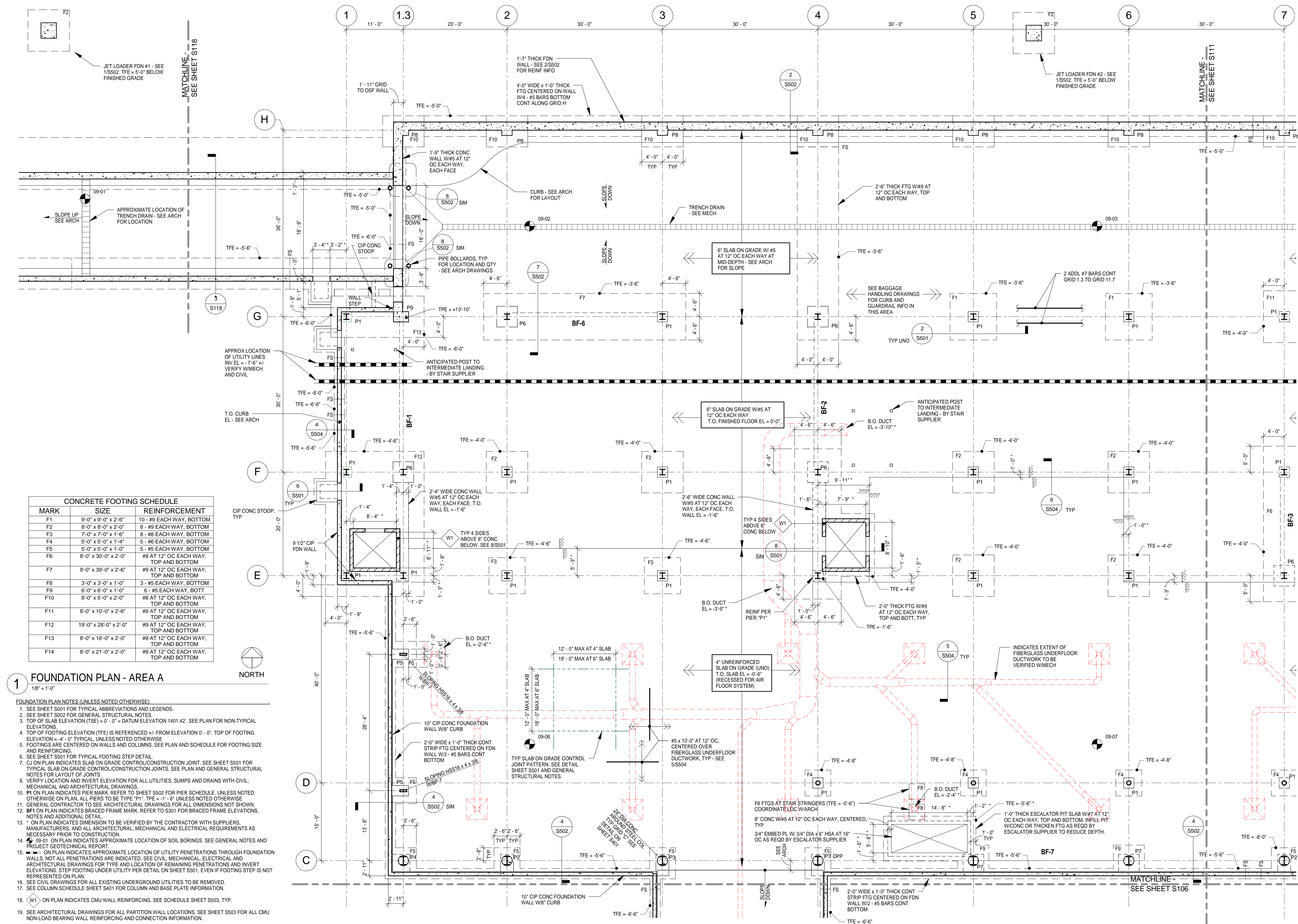
213-1882-091

SHEET TITLE  
**FOUNDATION  
PLAN - AREA A**

SHEET NUMBER

**S110**

# BUILDING PERMIT







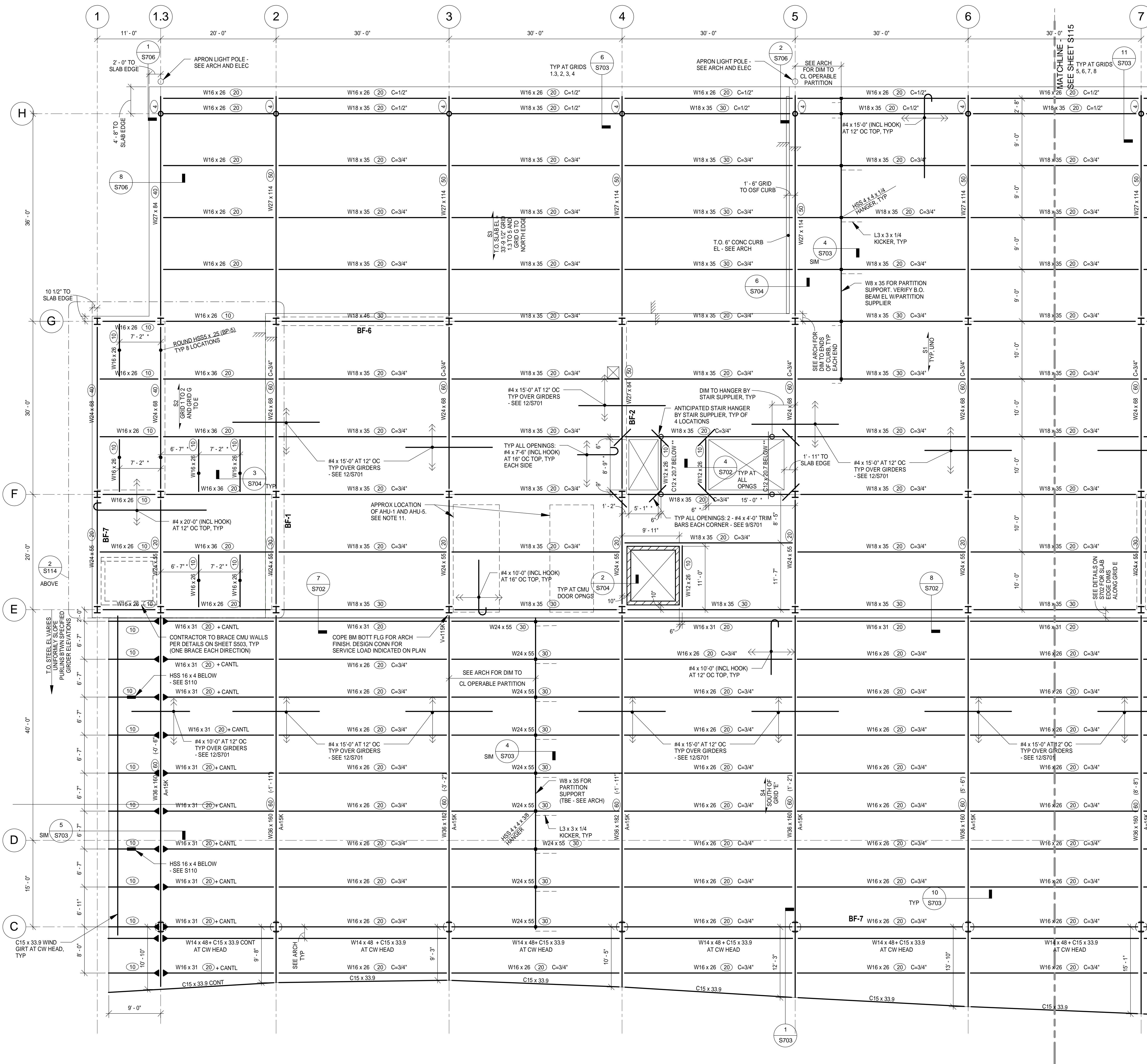














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Structural Engineers

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Print Name: Paul A. Johnson

Signature: T. A. Johnson

Date: June 3, 2010      Reg. No.: 20379

## REVISIONS

[illegible]

DATE ISSUED: 08-16-10

REVIEWED BY: PAJ / CWB

DRAWN BY: SJL

DESIGNED BY: CWB

AEP PROJECT NUMBER

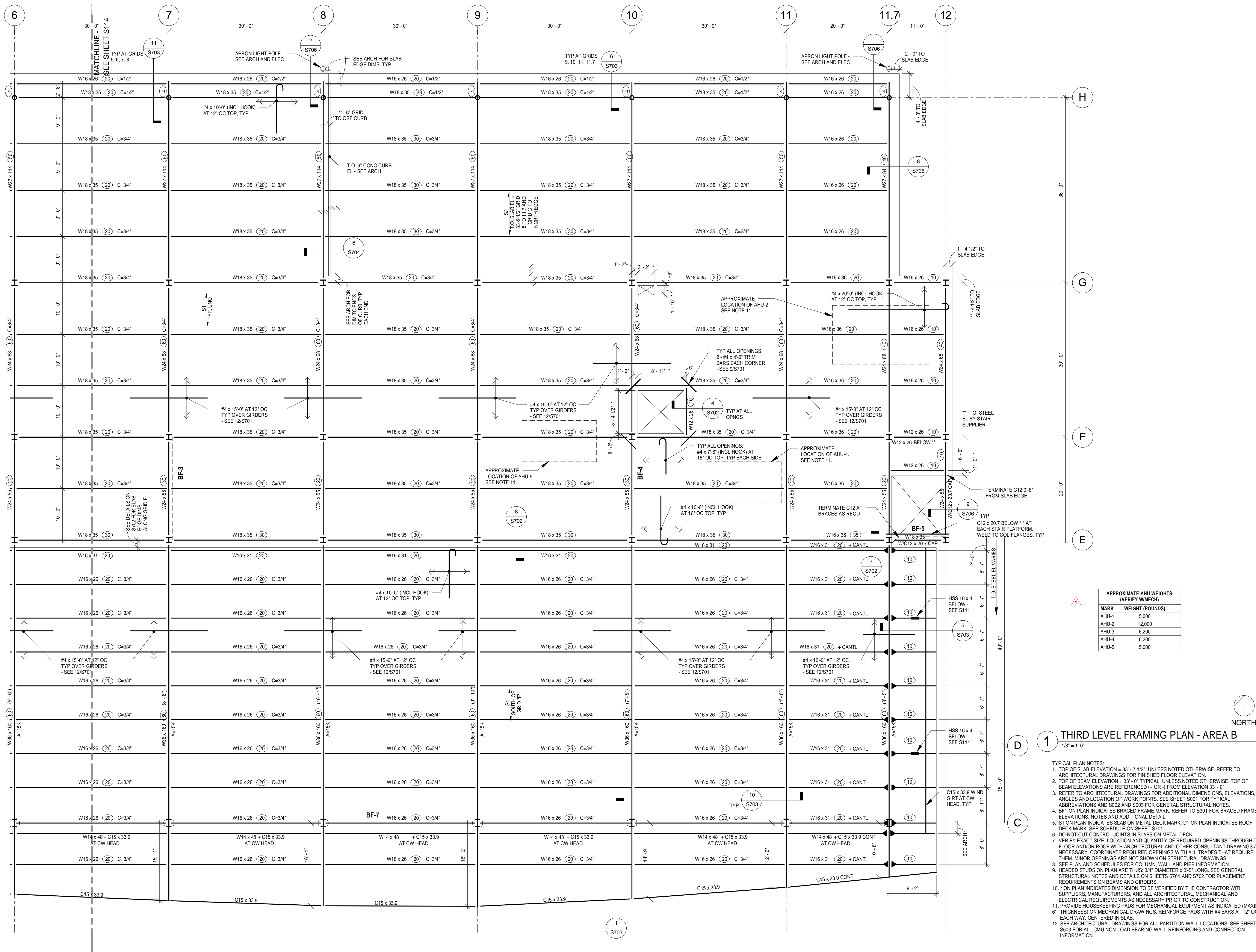
213-1882-091

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

SHEET NUMBER

**S115**

# BUILDING PERMIT









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Signature: Todd Johnson

Date: June 3, 2010      Reg. No.: 20379

[illegible]

<b>DATE ISSUED:</b>	08-16-10
<b>REVIEWED BY:</b>	PAJ / CWB
<b>DRAWN BY:</b>	SJL
<b>DESIGNED BY:</b>	CWB

AEP PROJECT NUMBER  
213-1882-091

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

SHEET NUMBER  
**S117**

# BUILDING PERMIT


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

**TYPICAL PLAN NOTES:**

- 1. TOP OF STEEL BEAM ELEVATION IS REFERENCED (± OR -) FROM ELEVATION 49'-6".
- 2. TOP OF STEEL BEAM ± 49'-6", UNLESS NOTED OTHERWISE.
- 3. TOP OF SLAB ELEVATION VARIATIONS, SEE PLAN.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS, ANGLES AND LOCATION OF WORK POINTS. SEE SHEET S001 FOR TYPICAL ABBREVIATIONS AND S002 AND S003 FOR GENERAL STRUCTURAL NOTES.
- 5. BFI ON PLAN INDICATES BRACED FRAME MARK. REFER TO S301 FOR BRACED FRAME DETAILS, NOTES AND ADDITIONAL DIMENSIONS.
- 6. S1 ON PLAN INDICATES SLAB ON METAL DECK MARK. S1 ON PLAN INDICATES ROOF DECK MARK. SEE SCHEDULE ON SHEET S701.
- 7. DO NOT CUT CONTROL JOINTS IN SLABS ON METAL DECK.
- 8. VARY EXACT SIZE, LOCATION AND NUMBER OF REQUIRED OPENINGS THROUGH THE FLOOR OR ROOF WITH ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS AS NECESSARY. COORDINATE REQUIRED OPENINGS WITH ALL TRADES THAT REQUIRE THEM. MINOR OPENINGS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
- 9. SEE PLAN AND SCHEDULES FOR COLUMN, WALL AND PIER INFORMATION.
- 10. THIS INCLUDES ON PLAN DETAILS OF DIMENSIONER X 6" LONG. SEE GENERAL STRUCTURAL NOTES AND DETAILS ON SHEETS S701 AND S702 FOR PLACEMENT REQUIREMENTS ON BEAMS AND GIRDER.
- 11. "ON PLAN" INDICATES DIMENSION TO BE VERIFIED BY THE CONTRACTOR WITH SUPPLEMENTARY MANUFACTURING AND ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.









2 TUG ROAD ROOF FRAMING PLAN - AREA B

3 SECTION



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Date: June 3, 2010      Reg. No.: 20379

## REVISIONS

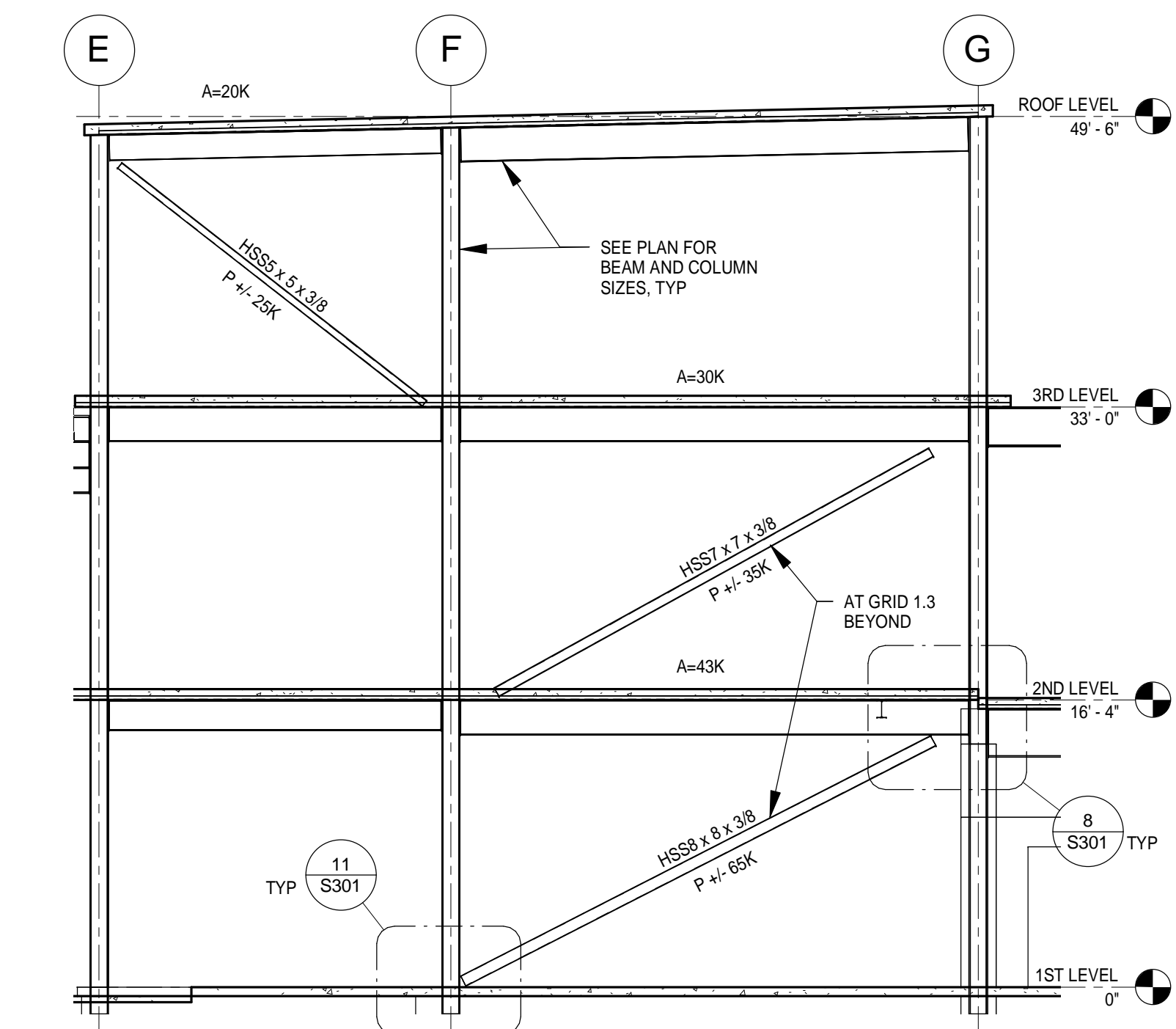
SHEET TITLE  
**TUG ROAD ROOF  
FRAMING PLAN**

SHEET NUMBER

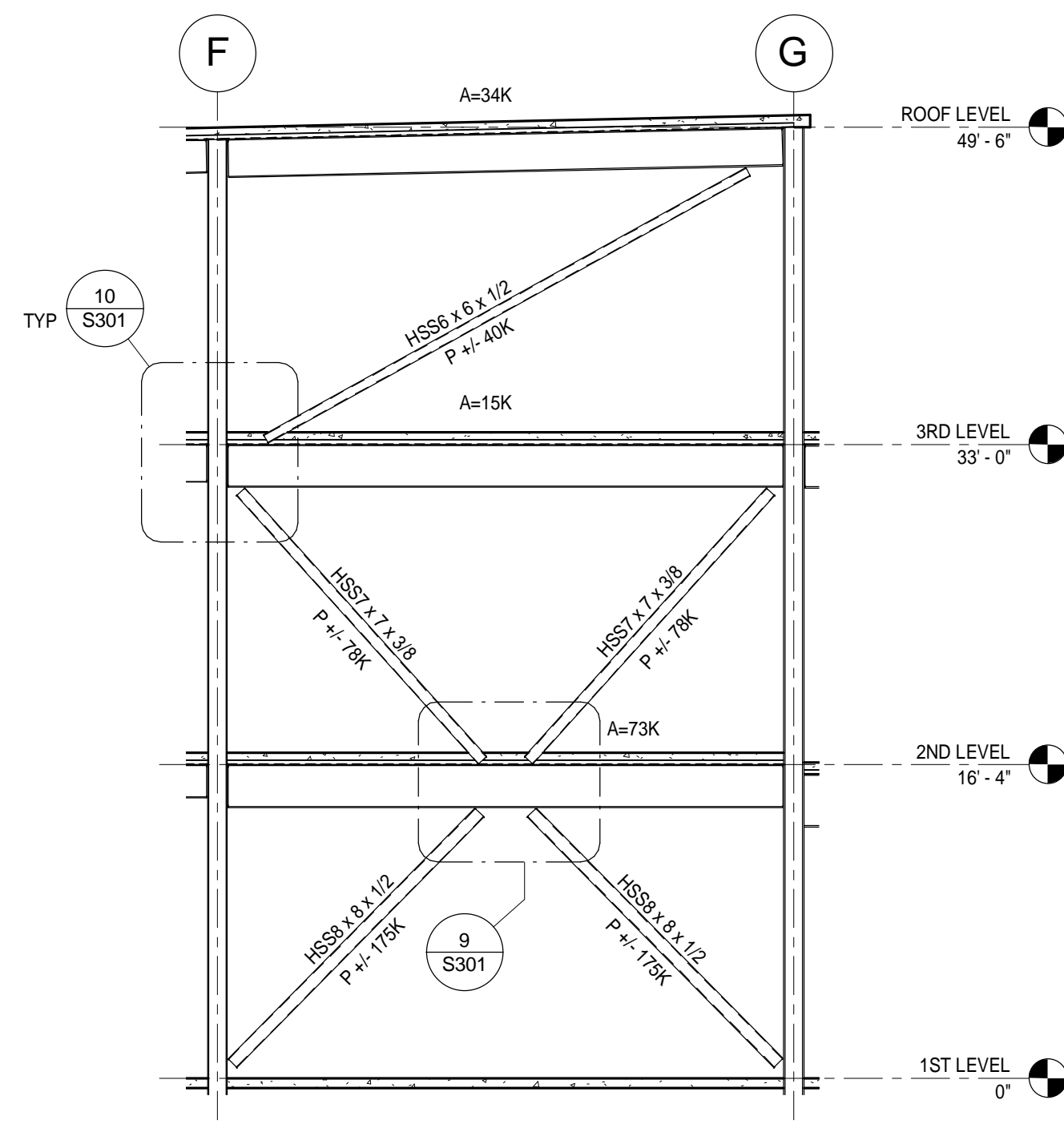
**S119**

# BUILDING PERMIT

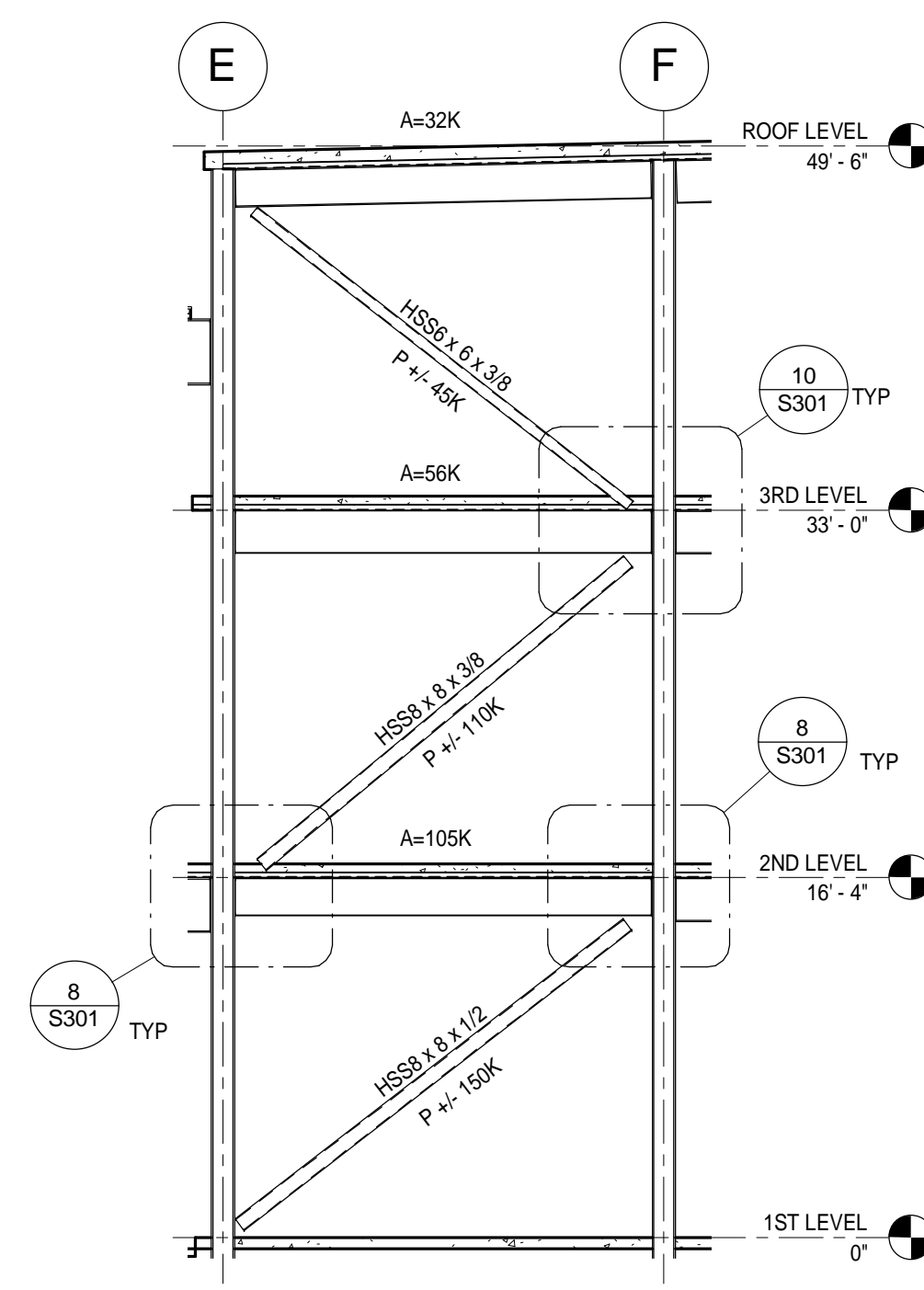




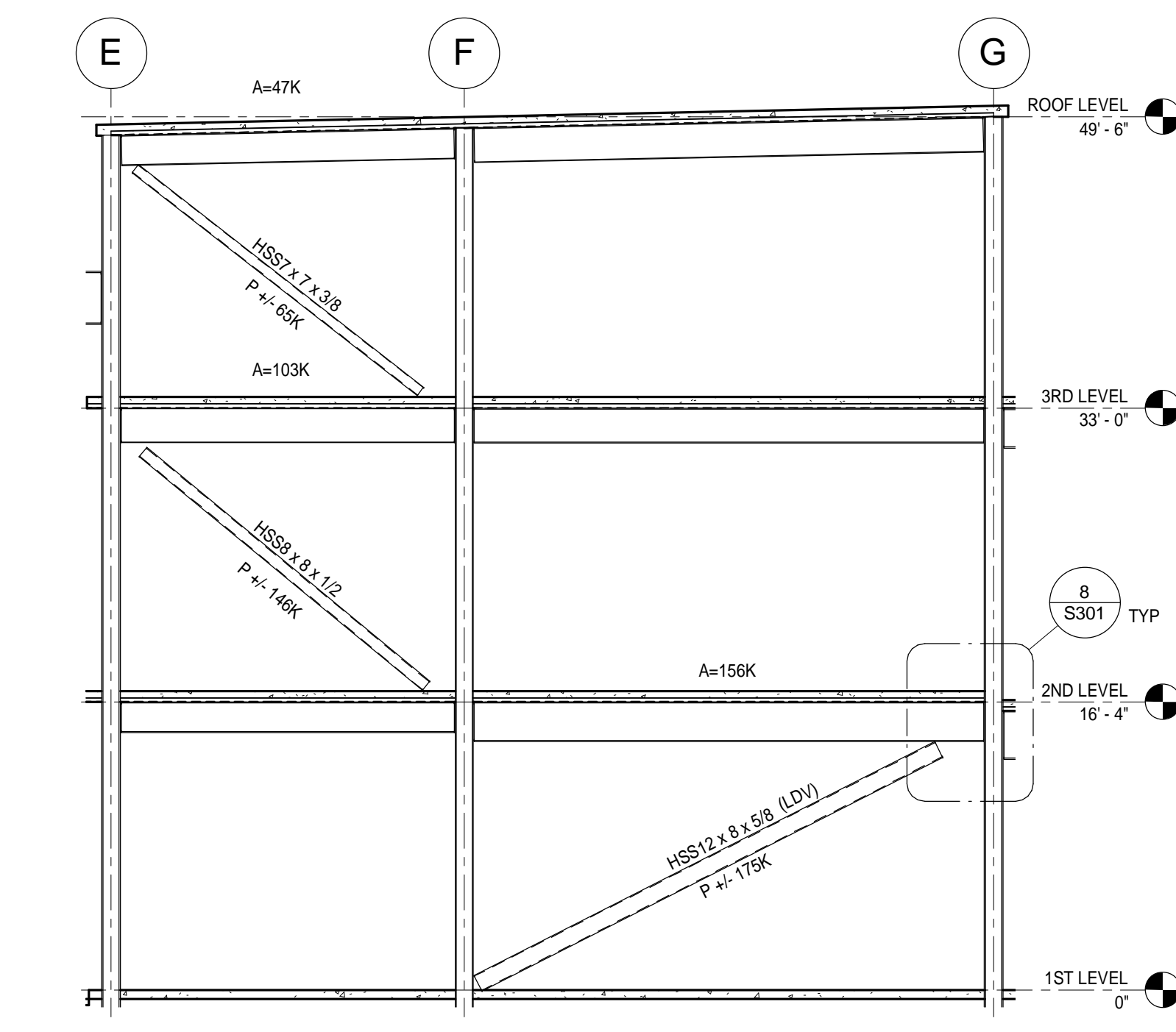
1 BF1 - BRACING AT GRID 2 AND 1.3  
1/8" = 1'-0"



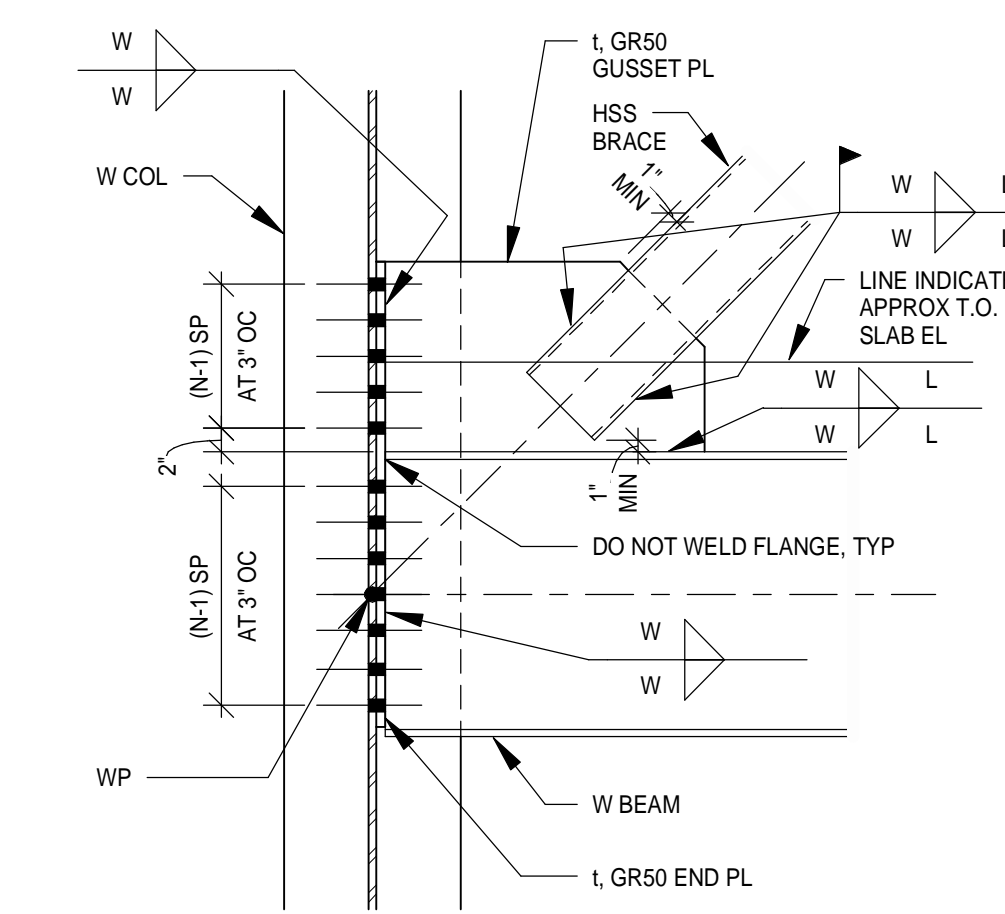
2 BF2 - BRACING AT GRID 4  
1/8" = 1'-0"



3 BF3 - BRACING AT GRID 7  
1/8" = 1'-0"

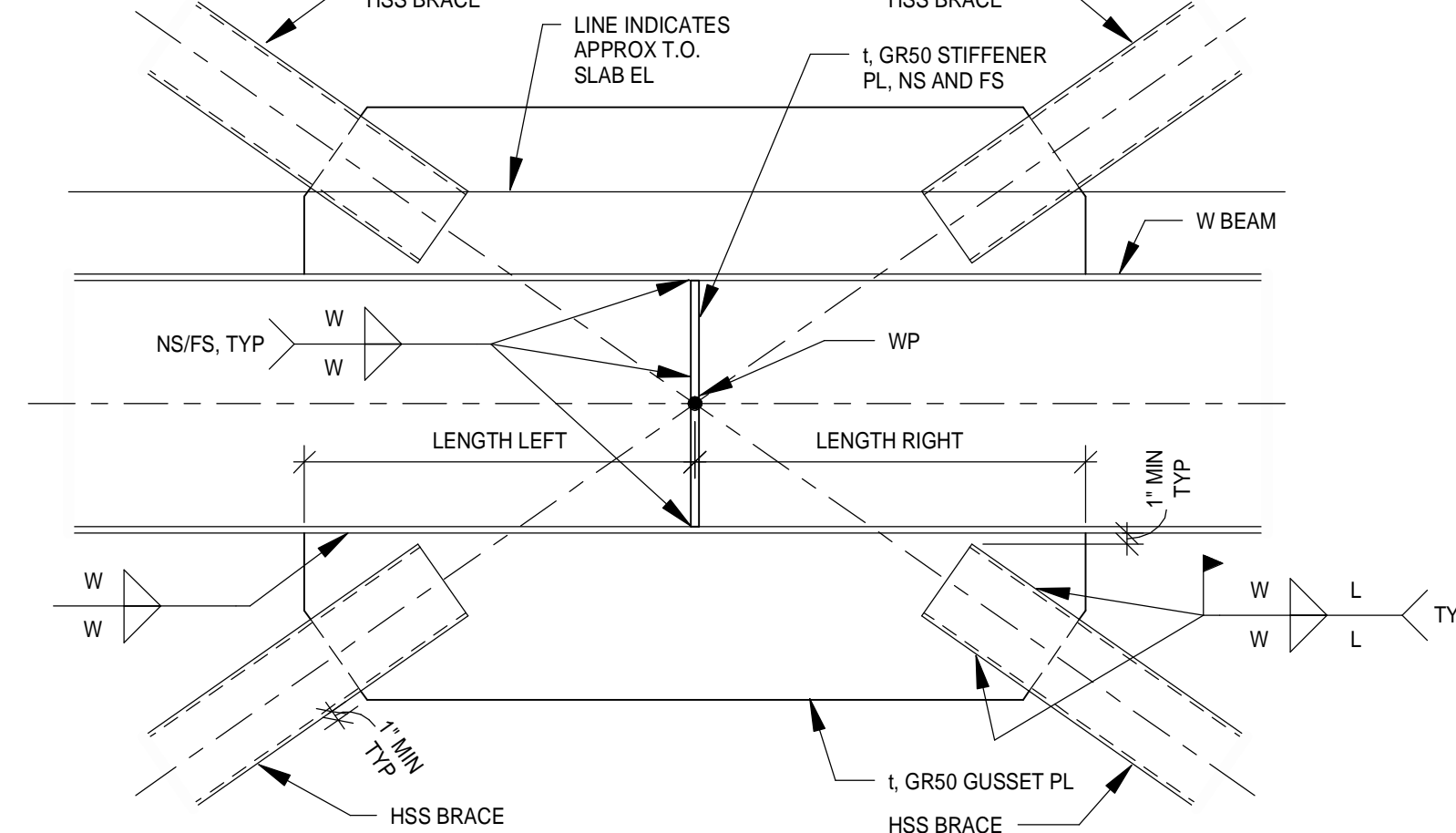


4 BF4 - BRACING AT GRID 10  
1/8" = 1'-0"



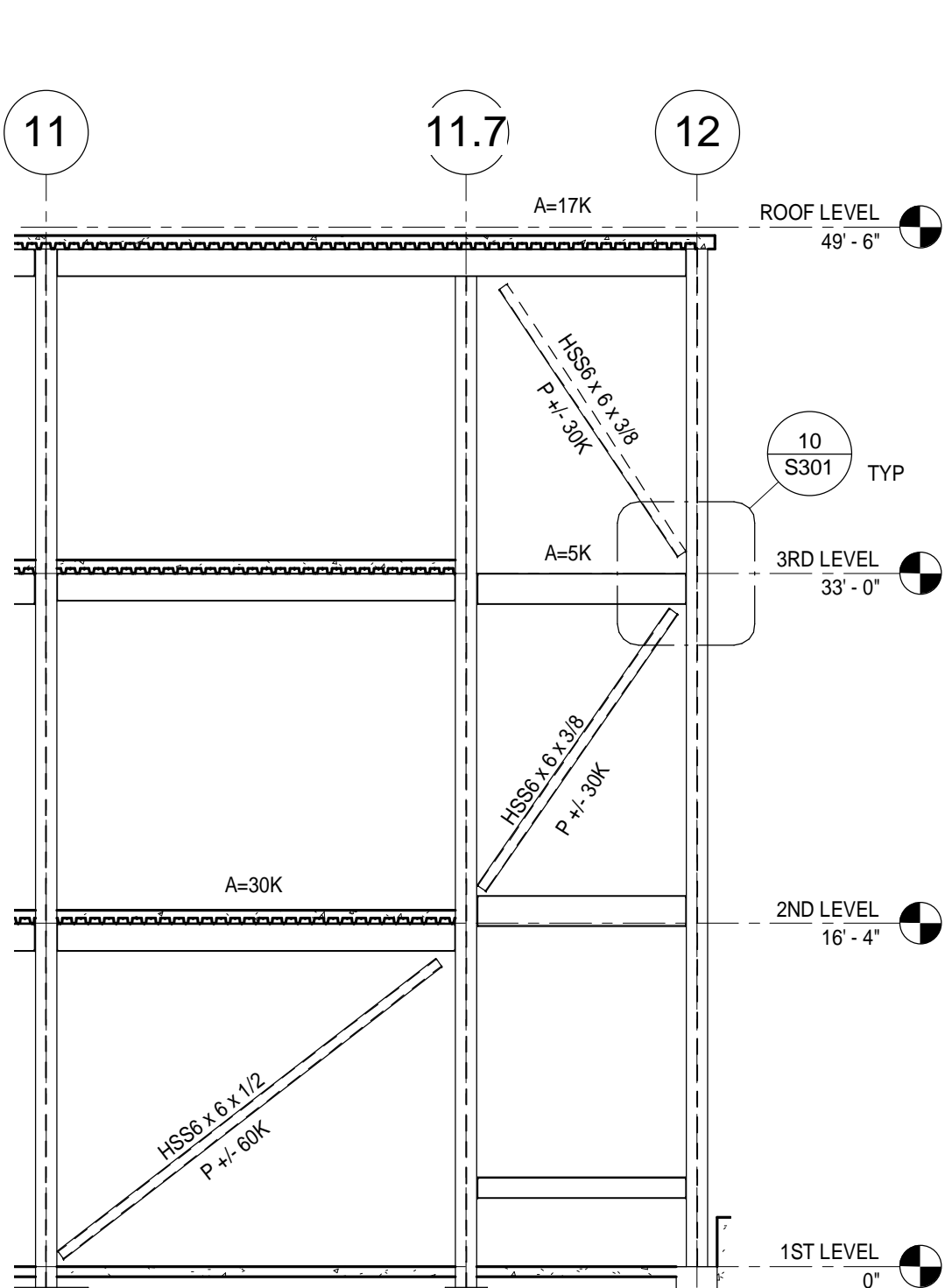
NOTES:  
1. SEE GENERAL BRACED FRAME CONNECTION NOTES.

8 DETAIL  
NO SCALE

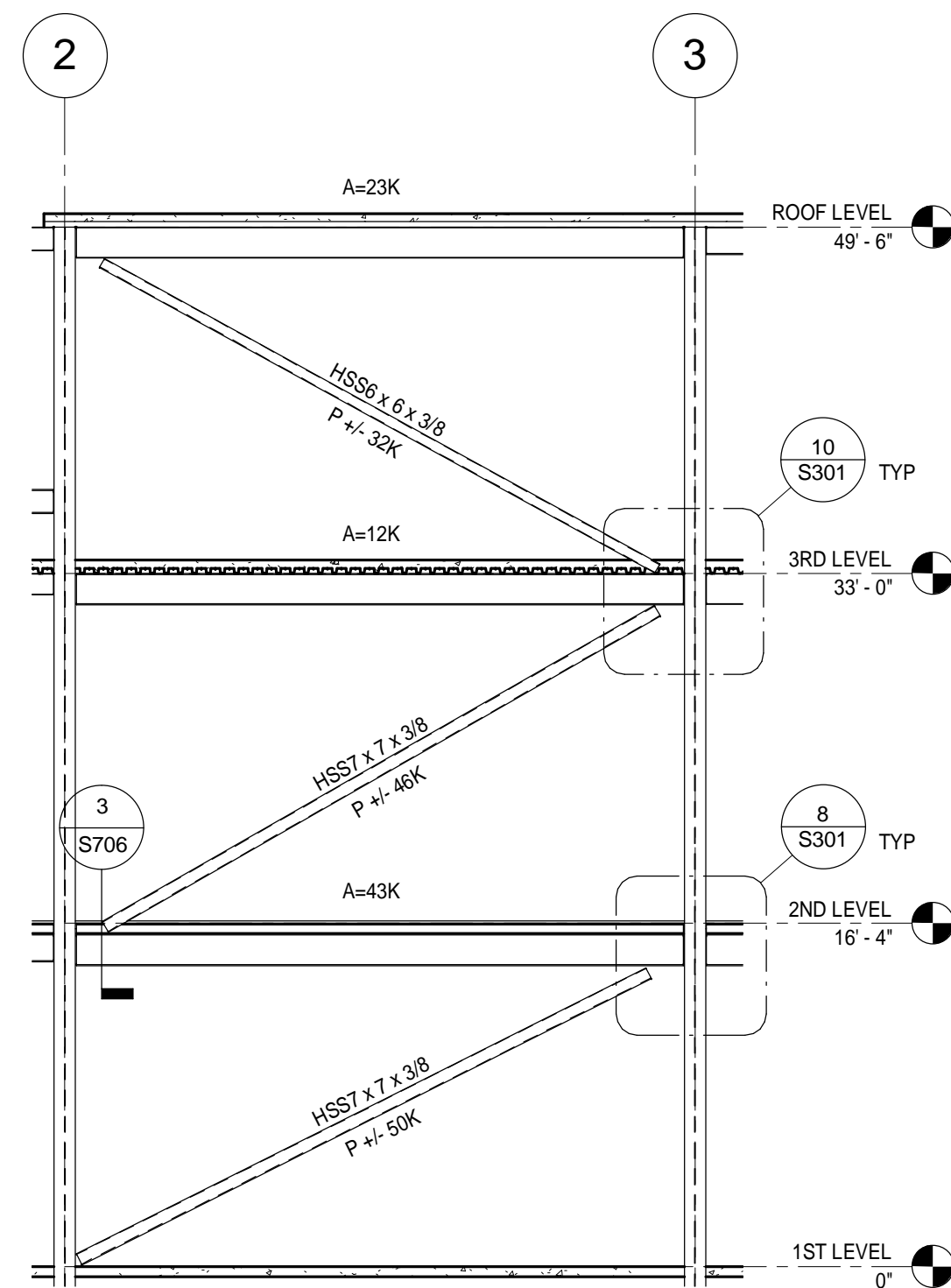


NOTES:  
1. SEE GENERAL BRACED FRAME CONNECTION NOTES.

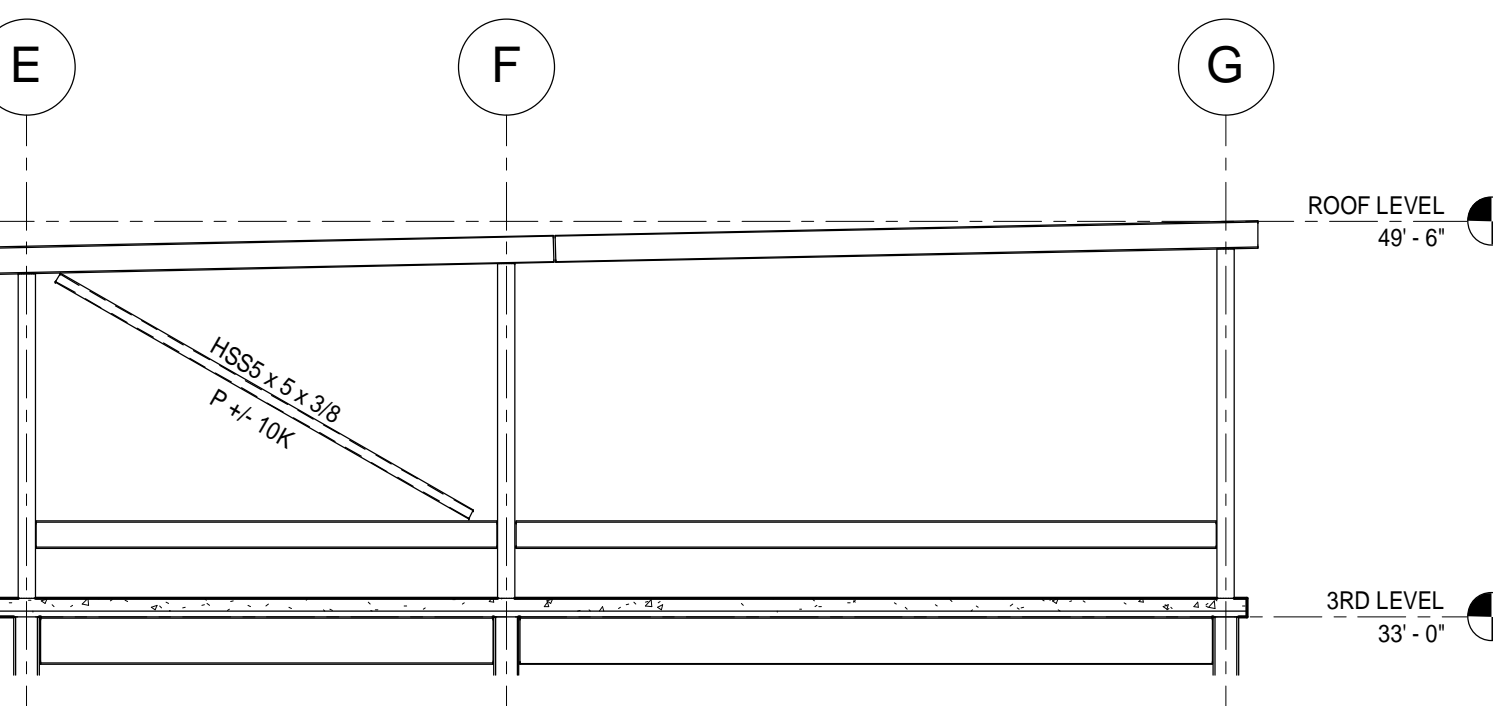
9 DETAIL  
NO SCALE



5 BF5 - BRACING AT GRID E  
1/8" = 1'-0"

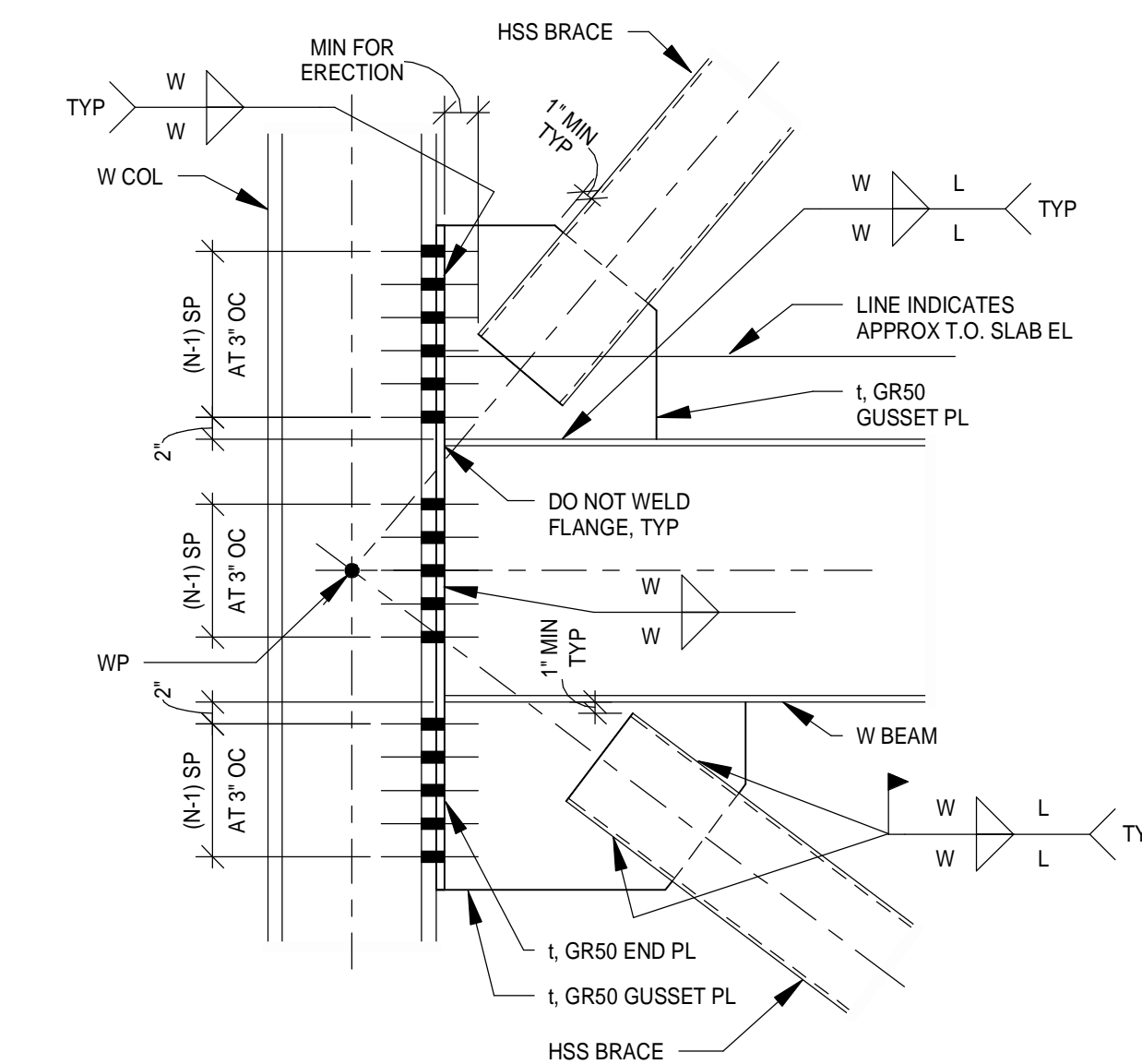


6 BF6 - BRACING AT GRID G  
1/8" = 1'-0"



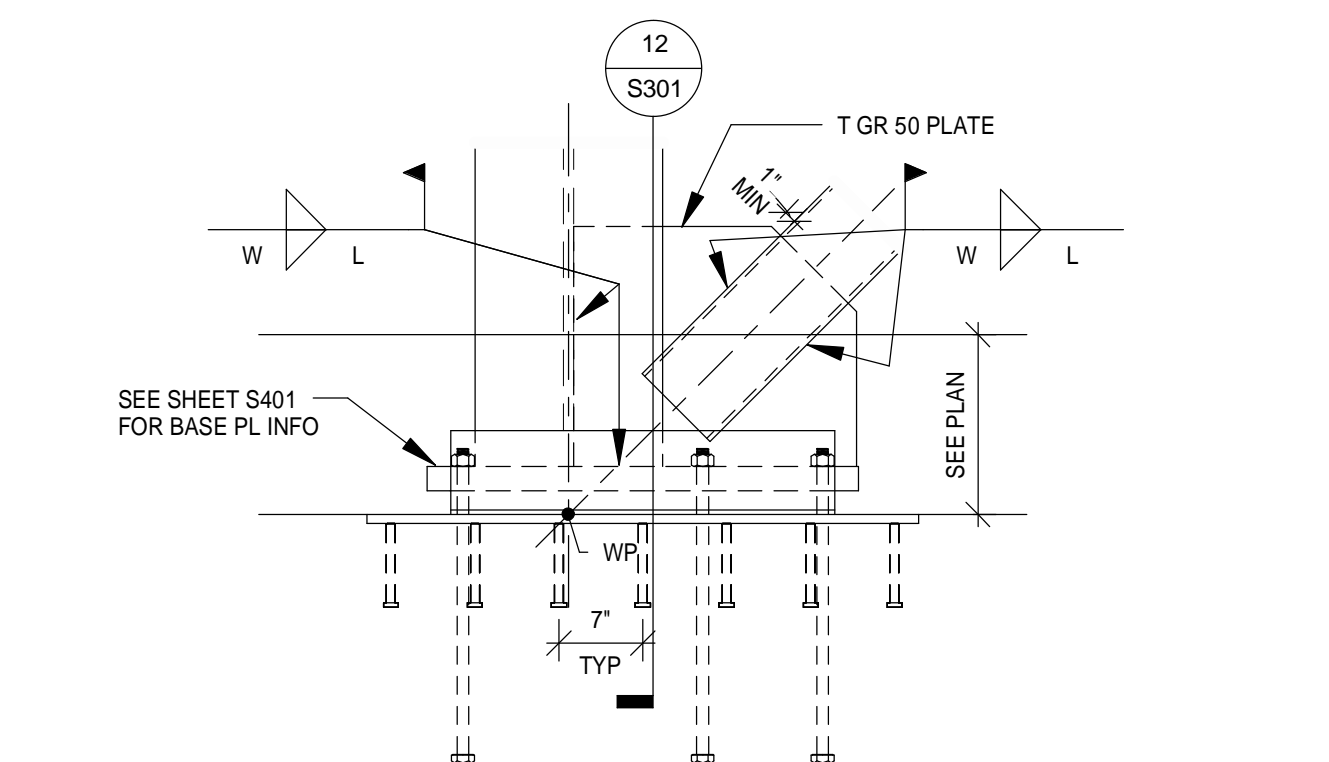
7 BF7 - BRACING AT GRID 1  
1/8" = 1'-0"

**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" A490N BOLTS, UNLESS NOTED OTHERWISE. ALL BOLTS IN BRACED FRAME CONNECTIONS SHALL BE FULLY TENSIONED.  
4. ALL BOLTS ARE IN STANDARD HOLES, UNLESS NOTED OTHERWISE. FABRICATOR MAY OPT TO PROVIDE SHORT SLOTTED HOLES NORMAL TO LOAD DIRECTION IN GIRDER/BRAVE END PLATES.  
5. 1 1/2" MINIMUM EDGE DISTANCE.  
6. 6" MAXIMUM EDGE DISTANCE.  
7. 2" MINIMUM PITCH.  
8. E70XX WELDING ELECTRODES.  
9. CONNECTIONS SHOWN ARE CONCEPTUAL DETAILS ONLY. WELD LENGTHS, NUMBER OF BOLTS AND PLATE SIZES WILL VARY AS REQUIRED FOR DESIGN FORCES INDICATED.  
10. PROVIDE A SLOTTED ERECTION 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 BASED ON THE DESIGN FORCES INDICATED.

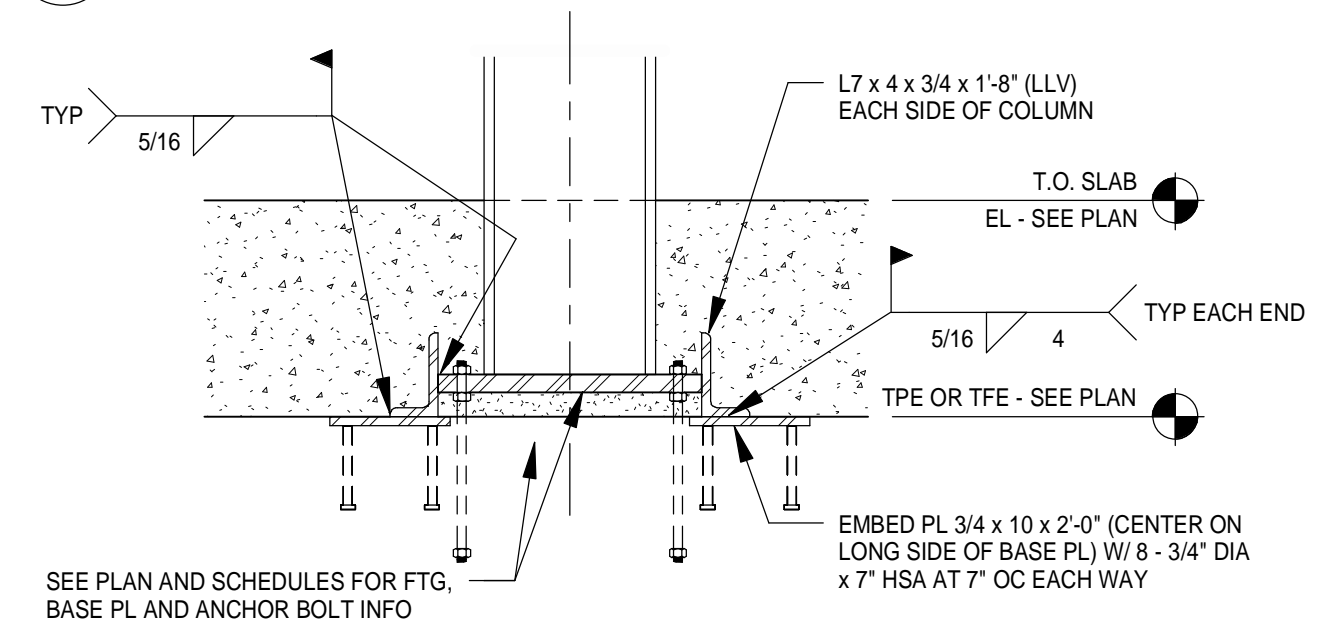


NOTES:  
1. SEE GENERAL BRACED FRAME CONNECTION NOTES.

10 DETAIL  
NO SCALE



11 TYPICAL FOUNDATION DETAIL AT BRACED FRAMES  
NO SCALE



12 SECTION  
NO SCALE

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Print Name: Paul A. Johnson

Signature: *Paul A. Johnson*

Date: June 3, 2010 Reg. No.: 20379

REVISIONS		
NO.	DESCRIPTION	DATE
1	Conformance Set	07-12-10
2	Building Permit	08-16-10

DATE ISSUED: 08-16-10  
REVIEWED BY: PAJ / CWB  
DRAWN BY: SJL  
DESIGNED BY: CWB

AEP PROJECT NUMBER  
213-1882-091

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**SHEET TITLE**  
**BRACING ELEVATIONS AND DETAILS**

**SHEET NUMBER**  
**S301**

**BUILDING PERMIT**









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Signature: *Tall Johnson*

Date: June 3, 2010      Reg. No.: 20379

## REVISIONS

[illegible]

**DATE ISSUED:** 08-16-10

REVIEWED BY: PAJ / CWB

DRAWN BY: SJL

DESIGNED BY: CWE

AEP PROJECT NUMBER

213-1882-091

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**SHEET TITLE**

## COLUMN SCHEDULE AND DETAILS

SHEET NUMBER

**S401**

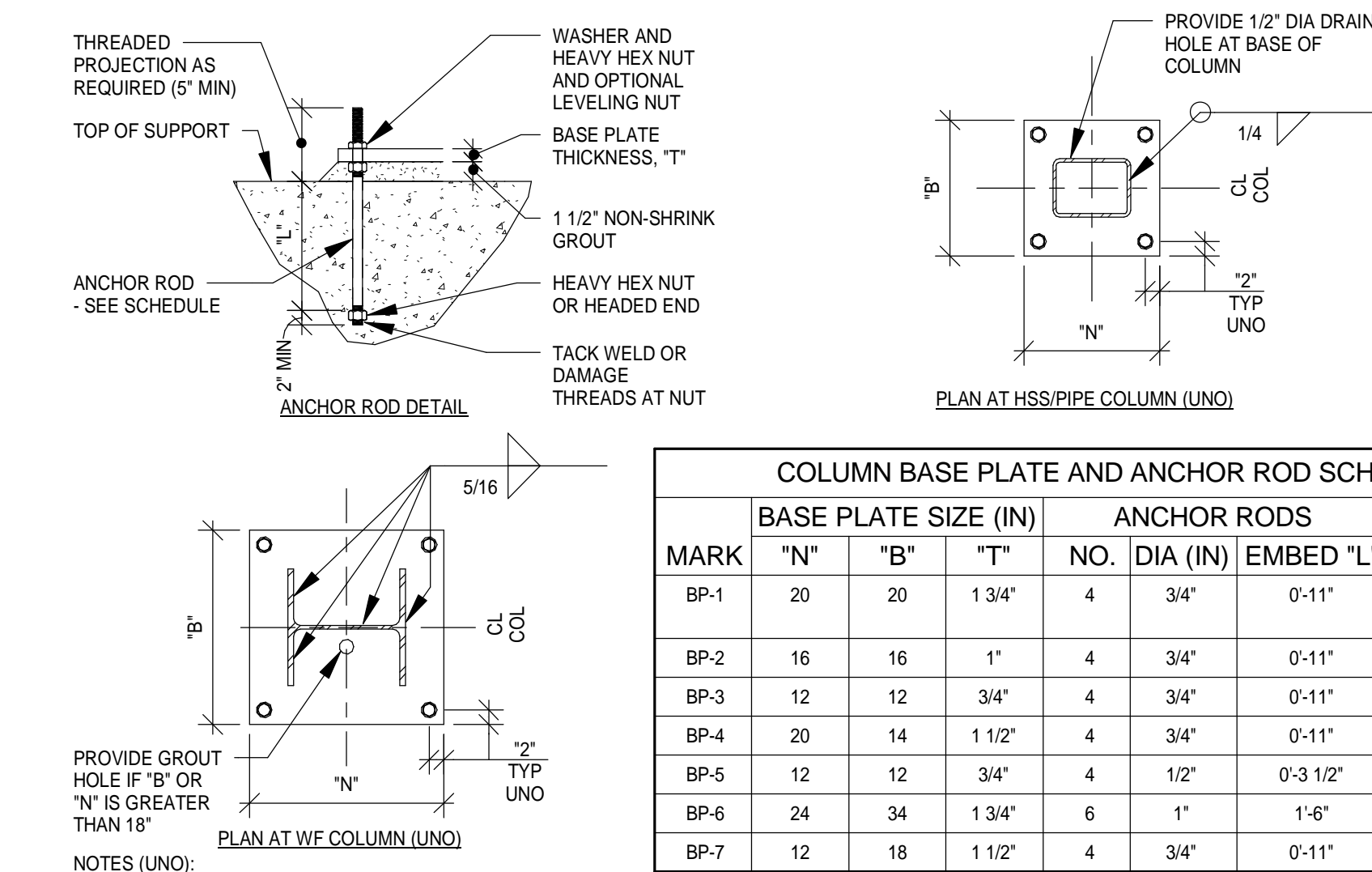
# BUILDING PERMIT

Column Locations	G-3, G-4, G-5, G-6, G-7, G-8, G-9, G-10, G-11	G-12	H-1.3, H-11.7	H-2, H-3, H-4, H-9, H-10, H-11	H-5, H-6, H-7, H-8	X1-X4, X2-X4, X3-X4	X1-X5, X2-X5, X3-X5	
1ST LEVEL	0"	0"						1ST LEVEL
2ND LEVEL	16' - 4"		BP-2	BP-2	BP-2			2ND LEVEL
3RD LEVEL	33' - 0"							3RD LEVEL
ROOF LEVEL	49' - 6"							ROOF LEVEL

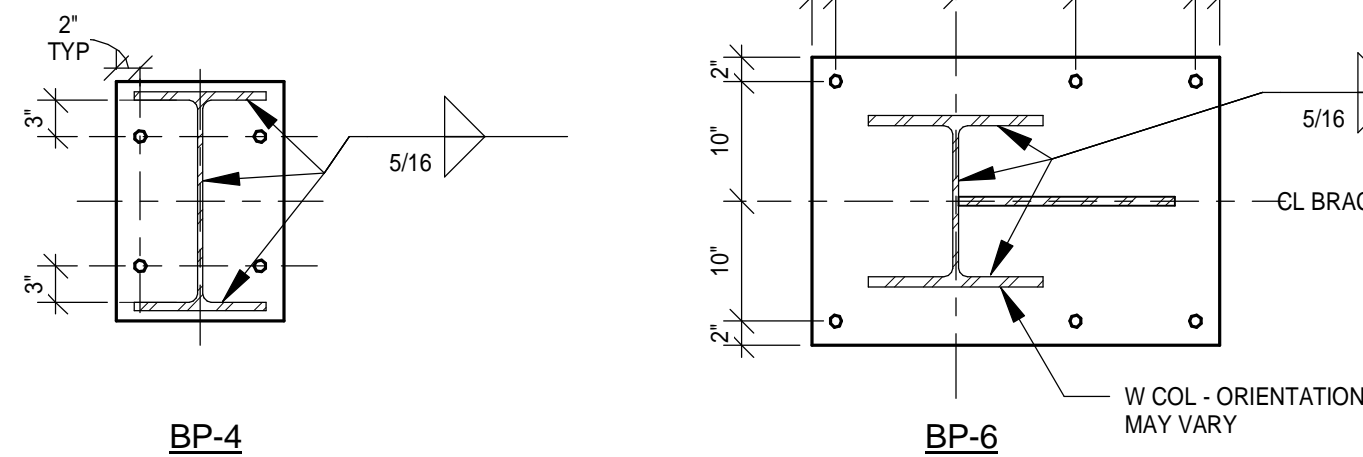
## NOTES

1. FOR BASE PLATE AND ANCHOR BOLT INFORMATION, SEE COLUMN BASE PLATE SCHEDULE THIS SHEET.
2. AT HSS ROUND COLUMNS, FABRICATOR MAY OPT TO SUBMIT EQUIVALENT PIPE SECTION TO A/E FOR REVIEW IN LIEU OF HSS ROUND COLUMN SHOWN.

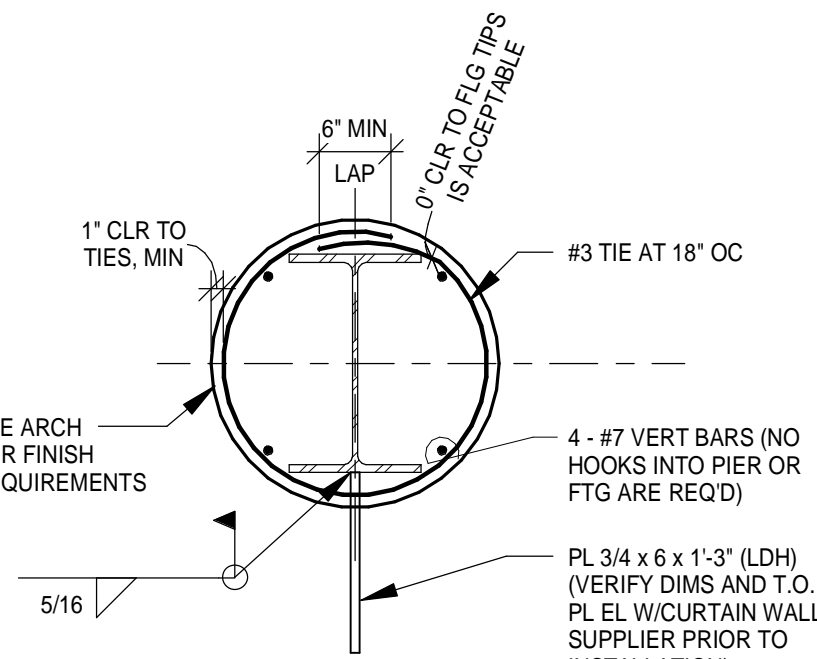
## NO SCALE



## NO SCALE



## NO SCALE



NOTES:

1. SEE PLAN FOR LOCATIONS

## NO SCALE









Architectural section drawing showing a wall and floor assembly. The drawing includes the following callouts and details:

- SEE ARCH FOR ANGLE** (top center)
- 7" MIN** (top left, indicating a gap or thickness)
- SEE ARCHMECH FOR EXTENT OF AIRFLOOR** (top right)
- SLAB REINF - SEE PLAN** (middle right)
- T.O. CURB** (left side, top)
- EL - SEE ARCH** (left side, top)
- T.O. FF** (right side, top)
- EL - SEE ARCH** (right side, top)
- T.O. SLAB** (right side, middle)
- EL - SEE PLAN** (right side, middle)
- DBE - SEE PLAN** (right side, bottom)
- #3 CLOSED TIES AT 12" OC W/2 - #4 BARS TOP AND BOTT** (left side, middle)
- #5 BARS CONT** (left side, middle)
- SEE ARCH FOR FINISH INFO** (left side, bottom)
- SHORE AS REQD UNTIL CONC REACHES ITS FULL SPECIFIED 28-DAY COMPRESSIVE STRENGTH** (left side, bottom)
- #5 U-BAR W/CLASS B LAP AT 4'-0" OC** (left side, bottom)
- SEE 2/S502 FOR WALL REINF INFO** (left side, bottom)
- L5 x 3 x CONT (LLV) - SEE PLAN** (middle right)
- 1/4"** (middle right, indicating a gap or thickness)
- EMBED PL 1/2 x 10 x 0'-10" AT 4'-0" OC W/ 4 - 3/4" DIA x 6" HSA THUS.** (middle right)
- SEE ARCH FOR FINISH INFO** (bottom right)
- 2" TYP** (bottom right, indicating a typical dimension)

AT SIM: CURTAIN WALL SLOPE VARIES  
 T.O. FF EL = 0'-0"  
 T.O. SLAB EL - SEE PLAN  
 INSULATION - SEE ARCH  
 2"  
 8"  
 SEE ARCH FOR CHAMFER AND REVEAL INFO  
 TRANSITION TO 8" CURB EL - SEE ARCH  
 T.O. GRADE EL - SEE CIVIL  
 #5 AT 12" OC EACH WAY, CENTERED IN 8" CURB WALL  
 DOWEL TO MATCH VERT W/CLASS "B" LAP + STD HOOK  
 TFE - SEE PLAN  
 3/4"

GRID

SEE PLAN

SEE PLAN OR ARCH

OPENING BEYOND

DO NOT CARRY STEEL REINF THRU JOINT

SEE ARCH FOR WATERSTOP INFO

TUG ROAD WALL

SEE PLAN AND DETAILS FOR REINF STEEL INFO TYP

[illegible]

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

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Signature: Todd A Johnson

Date: June 3, 2010      Reg. No.: 20379

[illegible]

DATE ISSUED: 08-16-10

REVIEWED BY: PAJ / CWB

DRAWN BY: SJL

DESIGNED BY: CWB

AEP PROJECT NUMBER

213-1882-091

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**SHEET TITLE**

## STRUCTURAL

## STRUCTURAL DETAILS

SHEET NUMBER

**S502**

# BUILDING PERMIT

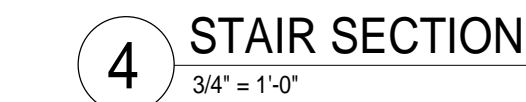
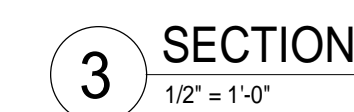
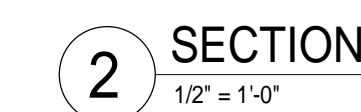
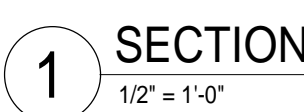












## PERMIT





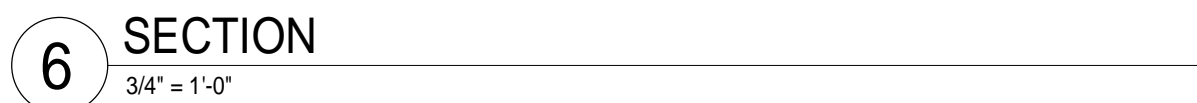




















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[illegible]

DATE ISSUED: 08-16-10

REVIEWED BY: PAJ / CWB

DRAWN BY: SJL

DESIGNED BY: CWE

AEP PROJECT NUMBER

213-1882-091

## SHEET NUMBER

**S706**

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