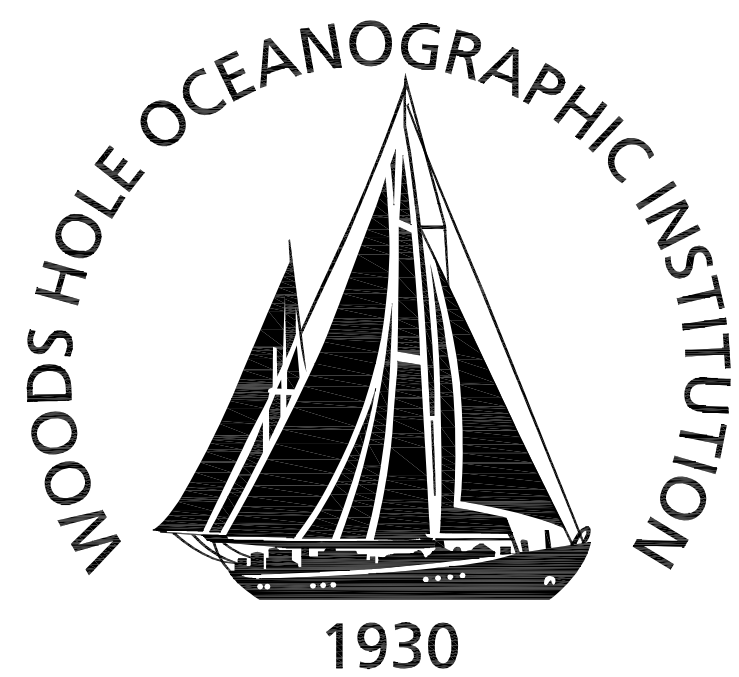




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CONSTRUCTION DOCUMENT SET - 15 APRIL 2011

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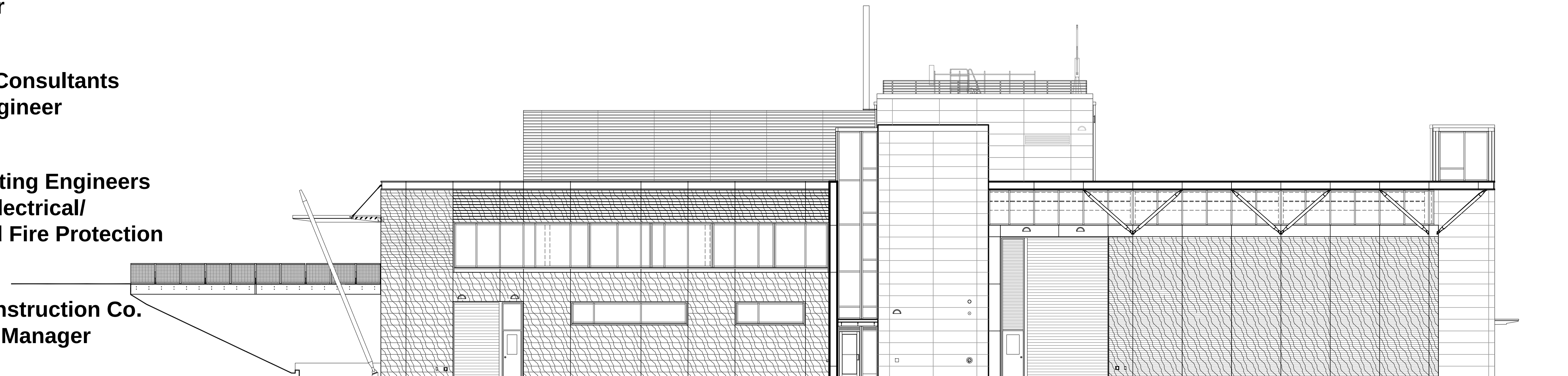
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CODE SUMMARY

1. Introduction:

The following code summary is based on our review of the proposed architectural drawings dated September 16, 2010. The following is a list of applicable codes:

Code Type	Applicable Codes (Model Code Basis)
Building	780 CMR: Massachusetts State Building Code, 8th Edition ¹ (2009 International Building Code)
Fire Prevention	527 CMR: Massachusetts Fire Prevention Regulations
Accessibility	521 CMR: Massachusetts Architectural Access Board Regulations
Electrical	527 CMR 12.00: Massachusetts Electrical Code (2008 National Electrical Code)
Elevators	524 CMR: Massachusetts Elevator Code (2004 ASME A17.1)
Mechanical	2009 International Mechanical Code (IMC)
Plumbing	248 CMR: Massachusetts Plumbing Code
Energy Conservation	2009 International Energy Conservation Code

¹ Massachusetts adopted the 8th edition 780 CMR on August 6, 2010 with a concurrency period until February 6, 2011.

2. Occupancy Classification: B (Offices and Laboratories)

The hazardous materials within the building must be maintained below exempt limits in 780 CMR Section 307.1 such that a high hazard classification will not be triggered for the entire building. Creating control areas with fire separation assemblies in accordance with 780 CMR 414.2 can further increase the allowable quantities. The amounts of hazardous materials allowed per control area are reduced and the number of control areas per floor is limited as follows:

Permitted Control Areas (780 CMR Table 414.2.2)

Floor Level	Hazardous Materials % Exempt Quantity per Fire Area ¹	# of fire areas allowed per floor	Control Area Separation (Walls & Floors)
1st	100%	4	1 hr
2nd	75%	3	1 hr
Future 3rd	50%	2	1 hr

¹ See attached exempt amount tables from 780 CMR. Note the highlighted increases for sprinkler protected buildings and storage in approved containers.

3. Construction Type:

Type IIB (no rating, noncombustible)

4. Height and Area Limitations:

Code Reference	Height	Area
Table 503	3 St. (55 ft)	23,000 ft ²
Section 504.2: Sprinkler Height Increase	1 St. (20 ft)	–
Section 506.2: Street Frontage Increase (100% Open)	–	17,250 ft ²
Section 506.3: Sprinkler Area Increase	–	46,000 ft ²
Total Allowed	4 St. (75 ft)	86,250 ft ²
Actual Height and Area	2 St.	~15,000 ft ²

As shown in the above table, the building complies with the height and area limitations for Type IIB construction even if a 3rd story is added in the future.

5. Fire Resistance Ratings:

The following table summarizes the required fire resistance ratings for various building elements based on 780 CMR Table 601 and other applicable code provisions

Building Element	Fire Resistance Rating (Hrs)	Opening Protectives (Hrs)
Structural Frame	0 ^A	
Exterior Bearing Walls	0 ^A	
Interior Bearing Walls	0 ^A	
Exterior Non–Bearing Walls	0 (see Section 6)	
Interior Non–Bearing Walls	0	
Floor Construction	0 ^A	
Roof Construction	0	
Exit Access Corridors (780 CMR 1018.1)	0	
Stair Shafts (780 CMR 1016.1 & 1022.1)	2 story building	Not required
	3 story building	1
Other Shafts (780 CMR 708.4)	2 story building	Not required ^B
	3 story building	Not required ^{B,C} , 1 if provided
Elevator Machine Room (780 CMR 708.4)	1	1
Control Area Walls, Floors, and Supporting Construction (780 CMR 414.2)	1	1

A. Not less than the rating of the assembly supported.
B. Duct penetrations of the floor must be firestopped at the floor line when connecting only 2 floors (780 CMR 716.6.3).
C. Duct penetrations of the floor must be firestopped and provided with a fire damper at the floor line where connecting all 3 floors (780 CMR 716.6.3).

As a 2 story building, the exit stairs are permitted to be open to both floors as long as the exit access travel distance from the most remote point within the building to an exterior door is less than 300' (780 CMR 1016.1). If a 3rd story is added, the exit stairs must be enclosed on all floors in an 1 hour fire resistance rated shafts per 780 CMR 1022.1.

CODE SUMMARY

6. Exterior Wall Openings & Fire Resistance Rating:

The exterior wall rating requirements and opening limitations are based on the fire separation distance for each wall. The fire separation distance is measured perpendicular to the exterior wall to the centerline of a public street, an interior lot line, or an imaginary lot line between two buildings on the same lot (780 CMR 702.0). Since the building will be at least 40' from any adjacent existing buildings, a lot line can be located between the buildings resulting in a fire separation distance of more than 10 feet for the new building and the exterior walls are not required to be rated (780 CMR Table 602). The allowable area of exterior wall openings also is not limited when the fire separation distance is greater than 10 feet (780 CMR Table 705.8.1 Exc. 2).

Although fire protection is not required for exterior walls or windows, since the building will be located in a wind–borne debris region (as defined by 780 CMR 1609.2) exterior glazing must be designed as impact resistant or protected with an impact resistant covering in accordance with 780 CMR Section 1609.1.2.

7. Finishes:

Interior Finish

Walls & Ceilings (780 CMR Table 803.9)

Use Group	B
Exit Stair	Class B
Exit Access Corridors	Class C
Rooms & Enclosed Spaces	Class C
Floors	DOC FF–1 pill test

8. Means of Egress:

The calculated occupant load for the proposed floor plans, the corresponding required number of exits, the provided number of exits, and the provided egress capacity are summarized below (780 CMR Table 1004.1.2, Table 1018.1, and Table 1005.1).

Means of Egress

Floor	Occupant Load	Number of Exits		Exit Capacity ¹ (persons)
		Required	Provided	
1st	< 500	2	3	4–34" doors = 680
2nd	< 500	2	3	2–34" doors = 340 2–44" stairs = 293 Total = 633

¹ Based on clear widths calculated at 0.2" per person for doors and 0.3" per person for stairs.

- Maximum Exit Access Travel Distance must be less than 300' (780 CMR Table 1016.1).

- Maximum Dead End Corridor Length must be < 50 feet or 2.5 times the least width of space (780 CMR 1018.4).

- All rooms or spaces with an occupant load greater than 50 people must be provided with two egress doors swinging in the direction of egress and illuminated exit signs at each exit (780 CMR Sections 1015.1, 1008.1.2, & 1011.1). Boiler rooms require two means of egress if the room is greater than 500 sqft. and includes individual fuel–fired equipment greater than 400,000 Btuh input capacity.

- Egress doors must swing in the direction of egress travel where serving an occupant load of 50 or more people (780 CMR 1008.1.2).

- All rooms or spaces with a travel distance of over 100 feet must be provided with two egress doors and illuminated exit signs at each exit (780 CMR Sections 1015.1 & 1011.1).

- Remote means of egress must be separated by ¼ of the diagonal dimension of the room or space they serve (780 CMR 1015.2.1 Exc. 2). The distance between exits must be measured in a straight line between exit doors.

9. Required Fire Protection Systems:

- Automatic Sprinkler System (780 CMR Table 903.2 & M.G.L. Chapter 148 Section 26G)
- Manual Fire Alarm Signaling System (780 CMR 907.2.2)
- Fire Extinguishers (780 CMR 906.1).

DRAWING LIST

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FP–1.2 FIRE PROTECTION SECOND FLOOR PLAN
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P–0.0 PLUMBING SCHEDULES, LEGEND & ABBREVIATIONS
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E6.2 ELECTRICAL MISCELLANEOUS DETAILS
E6.3 ELECTRICAL MOTOR AND GROUNDING DETAILS
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E6.5 ELECTRICAL UTILITY DETAILS

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A9.3 DOOR TYPES AND HOLLOW METAL FRAME TYPES
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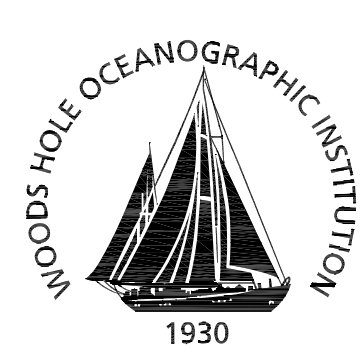
A10.1 CASEWORK SCHEDULES
A10.2 CASEWORK SCHEDULES
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A11.6 INTERIOR DETAILS
A11.7 INTERIOR DETAILS

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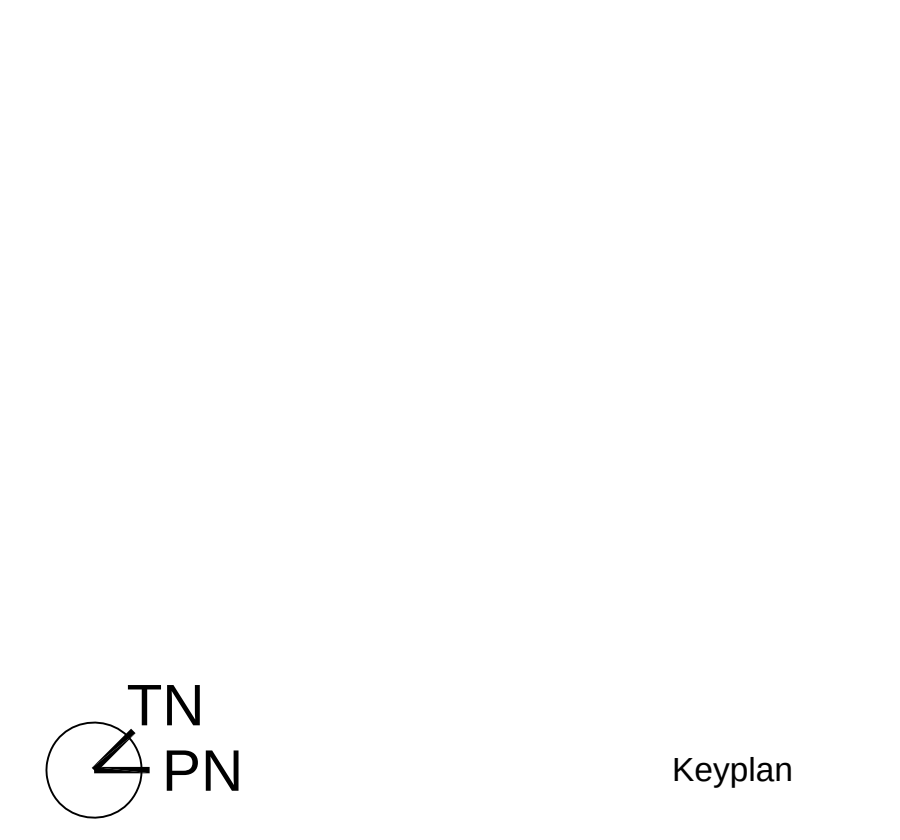
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Notes:



Job Number 31003
Drawing By -
Checked By -
Filename 31003-T0.2
Date 15 APRIL 2011

Revisions

DRAWING LIST AND CODE SUMMARY

CONSTRUCTION DOCUMENTS
Scale: NTS

T0.2

ABBREVIATIONS	
1PH	Single Phase
3PH	Three Phase
A	Air
ABV	Above
AC	Air Conditioning
ACT	Acoustical Ceiling Tile
ACM	Aluminum Composite Metal
ADA	Americans with Disabilities Act
ADDNL	Additional
ADJ	Adjustable
ADO	Automatic Door Opener
AESS	Architecturally Engineered Structural Steel
AFF	Above Finished Floor
AGG	Aggregate
ALT	Alternate
ALUM	Aluminum
AP	Access Panel
AP-F	Acoustic Panel - Fabric Wrapped
APPROX	Approximately
ARCH	Architectural
ARGWB	Abuse Resistant Gypsum Wall Board, Painted
AWC	Atlantic White Cedar
A/V	Audio Visual
BAS	Building Automated System
BC	Bottom of Curb
BD	Board
BIT	Bituminous
BLDG	Building
BLK	Block
BLKG	Blocking
BLW	Below
BM	Beam
BO	Bottom of
BOC	Bottom of Concrete
BOT	Bottom
BOW	Bottom of Wall
BR	Bracket
BRKT	Bracket
BSC	Biological Safety Cabinet
BTW	Between
BUR	Built Up Roofing
CAB	Cabinet(s)
CABO	Council of American Building Officials
CB	Cement Board
CEM	Cement
CFCI	Contractor Furnished, Contractor Installed
CG	Corner Guard
CHB	Chalkboard
CIP	Cast-in-Place
CJ	Control Joint
CL	Closet
CLNG	Ceiling
CLR	Clear(once)
COL	Column
COMP	Compressible
CONC	Concrete
CONT	Continuous
CPT	Carpet
CR	Cold Rolled
CS	Cupsink
CT	Ceramic Tile
CTR	Center
CUH	Cabinet Unit Heater
CW	Cold Water
D	Data
DB	Drainboard
DF	Drinking Fountain
DIA	Diameter
DIF	Diffuser
DIM	Dimension
DN	Down
DP	Dirty Power
DR	Door
DTL	Detail
DW	Dishwasher
DWG	Drawing
DWR	Drawer
EJ	Expansion Joint
EL	Elevation (Topographical)
ELEC	Electric(al)
ELEV	Elevator
EMERG	Emergency
ENCL	Enclosure
EO	Edge of
EOS	Edge of Slab
ELP	Electrical Panel
EP	Epoxy (Seamless)
EQ	Equal
EQUIP	Equipment
ETR	Existing to Remain
ES	Emergency Shower
ESV	Emergency Shower Valve
EW	Emergency Eye Wash
EWG	Electric Water Cooler
EXH	Exhaust
EXPN	Expansion
EXP	Exposed
EXT	Exterior
EXIST	Existing
FCO	Floor Clean Out
FD	Floor Drain
FDN	Foundation
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FEH	Fire Extinguisher Hook
FH	Fume Hood
FHC	Fire Hose Cabinet
FHCE	Fume Hood Ceiling Enclosure
FIN	Finish
FIXT	Fixture
FL	Floor
FLUOR	Fluorescent
F.O.	Face Of
FOC	Face of Concrete
FOP	Face of Precast
FP	Flat Panel Video Monitor, NIC
FRM	Frame
FRT	Fire Retardant Treated
FS	Floor Sink
FS	Firestopping
FT	Feet

ABBREVIATIONS	
FTG	Footing
FTR	Fin Tube Radiation
FV	(Contractor to) Field Verify
FWP	Fabric Wrapped Acoustical Wall Panel
G	Gas
GA	Gauge
GALV	Galvanized
GB	Grab Bar
GC	General Contractor
GFI	Ground Fault Interrupting
GFRG	Glass Fiber Reinforced Gypsum
GL	Glass/Glazing
GRN	Granite
GV	Gas Valve
GWB	Gypsum Wall Board
GYP	Gypsum
HB	Hose-Bib
HBWF	High Build Wall Finish
HC	Handicapped
HCR	Hollow Core
HCP	Handicap
HDW	Hardware
HGT	Height
HM	Hollow Metal
HOR	Horizontal
HP	High Point
HPC	High Performance Coating
HR	Hour
HTR	Heater
HVAC	Heating, Ventilation and Air Conditioning
HW	Hot Water
ID	Inside Diameter
IN	Inch or Inches
INCL	Include ('ing)
INSUL	Insulation / Insulated
INT	Interior
JT	Joint
KS	Knee Space
LAM	Laminated
LAV	Lavatory
LMF	Light Gage Metal Framing
LIN	Linoleum
LP	Low Point
LTG	Lighting
LWG	Linear Wood Grille
MACH	Machine
MAX	Maximum
MB	Markerboard
MDF	Medium Density Fiberboard
MGRH	Mechanical
MEMB	Membrane
MFR	Manufacturer
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MOS	Mosaic
MP	Metal Panel
MR	Moisture Resistant
MTD	Mounted
MTL	Metal
MW	Modular Wall
N	Nitrogen
NA	Not Applicable
NCT	Non-PVC Composition Tile
NER	National Evaluation Report
NIC	Not in Contract
NO	Number
NTS	Not to Scale
OA	Overall
OBL	Oblique
OC	On Center
OD	Outside Diameter
OF	Owner Furnished
OFOI	Owner Furnished & Owner Installed
OFCI	Owner Furnished & Contractor Installed
OH	Opposite Hand
OPNG	Opening
OPP	Opposite
OVHD	Overhead
P	Patch
PB	Pegboard
PC	Precast Concrete
PCWS	Process Chilled Water Supply
PCWS	Process Chilled Water Return
PE	Point Exhaust
PGL	Plate Glass
PL	Plate
PLAM	Plastic Laminare
PLAS	Plaster
PLWD	Plywood
PNL	Panel
PRS	Pressure Reducing Station
PS	Projection Screen
PT	Porcelain Tile
PTD	Painted
PTN	Partition
PVC	Poly Vinyl Chloride
QT	Quarry Tile
QTY	Quantity
R	Radius
RA	Return Air
RB	Rubber Base
RCP	Reflected Ceiling Plan
RD	Roof Drain
RECV	Receiving
REF	Refrigerator
REG	Register
REINF	Reinforcing
REQD	Required
REV	Revision/Reverse
R/F	Ref. or Freezer (by owner)
RI	Radioisotope
RM	Room
RMS	Rooms
RO	Rough Opening
RODI	Reverse Osmosis Deionized Water
RT/R	Rubber Treads & Risers
RWL	Rain Water Leader

ABBREVIATIONS	
S	Sink
SC	Solid Core
SCA	Spray on Cementitious Acoustical
SECT	Section
SG	Special Gas
SH	Shelf
SHT	Sheet
SIM	Similar
SPEC	Specifications
SQ	Square
SPF	Sprayed Polyurethane Foam
SR	Sheet Resilient
SRAB	Sheet Rubberized-Asphalt Barrier
SS	Stainless Steel
STD	Standard
STL	Steel
STN	Stainless
STR	Structural
STOR	Storage
SUSP	Suspended
SV	Special Vacuum
T	Tread
TB	Tackboard
TC	Top of Curb
TD	Trench Drain
TEL	Telephone
TEMP	Tempered (or) Temporary
TG	Tempered Glass
THK	Thickness
TO	Top of
TOC	Top of Concrete
TOF	Top of Footing
TOP	Top of Platform
TOR	Top of Rail
TOS	Top of Steel
TOT	Top of Tunnel
TOW	Top of Wall
TRANS	Transformer
TYP	Typical
UC	Under Counter
UL	Underwriters Laboratory
UNO	Unless Noted Otherwise
V	Vacuum
VERT	Vertical
VIF	Verify in Field
VTR	Vent Through Roof
W/	With
WD	Wood
WF	Wide Flange Steel Beam
WG	Wall Guard (WG-1: One Row, WG-2: Two Rows of Alum Sani-Rail)
WP	Working Point
WPR	Mechanical
WRC	Western Red Cedar
W/O	Without
WWF	Welded Wire Fabric
WS(-#)	Window Shade (and type)- see "Shades and Blinds Designations/Notes" sht T0.3

GENERAL NOTES	
1.	PROVIDE METAL OR PLYWOOD VENEER BLOCKING AT ALL LOCATIONS RECEIVING WALL SHELIVING, TANK RESTRAINTS
2.	ALL SURFACES EXPOSED TO VIEW (INCLUDING BUT NOT LIMITED TO: METAL DECK, STRUCTURAL STEEL, MECHANICAL EQUIPMENT, WALL SURFACES) SHALL RECEIVE PAINT.
3.	ALL GALVANIZED METAL SHALL BE NATURAL FINISH, UNLESS STATED OTHERWISE. IF ANY CONFLICT WITH DESIGN INTENT, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION.
4.	ALL STAINLESS STEEL FOR EXTERIOR USE SHALL BE OF 316 COMPOSITION.
5.	EXTERIOR BUILDING DIMENSIONS, INTERIOR PARTITION DIMENSIONS, INTERIOR PARTITION TYPES, AND EXTERIOR DETAIL KEYING ARE ALL LOCATED ON THE A1-PT SERIES DRAWINGS. INTERIOR DETAIL KEYS ARE LOCATED ON THE RCP PLANS AND ENLARGED FLOOR PLANS.

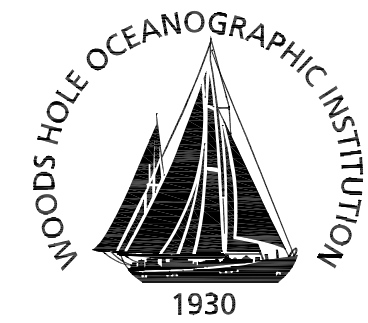
GRAPHIC SYMBOLS	
	1 Hour Rated Wall Assembly
	Location of Structural Brace: Refer to S-Series Drawings
	See Partitions Type Designations on PT-SERIES drawings and partition descriptions on sheet A9.1
	Service Recessed in Floor
	Duplex Outlet, 110 V
	Double Duplex Outlet, 110 V
	Triple Data & Voice
	Double Data
	2'x2' Access Panel
	Wall Phone
	Supply Air Diffuser
	Return Air Diffuser
	Exit Sign

GRAPHIC SYMBOLS	
	Building column centerline
	Plan or vertical detail Example: Detail 2 on Drawing A 6.1
	Building or major section Example: Section A on Drawing A4.1
	Detail Example: Detail 2 on Drawing A5.2
	Room name and number shown on floor plans
	Indicates window type
	Indicates Interior Window Type
	Indicates louver type keyed on elevations.
	Indicates door number shown on floor plans (reference to door schedule).
	Equipment Tag
	Elevation number
	Interior elevation indicator, shown on floor plans
	Sheet Number Where Detailed Elevation is Drawn
	Spot elevation
	Drawing revision. Revision date shown in title block.
	Ceiling Height Above Finished Floor and Ceiling Material
	Indicates control joint.
	Indicates expansion joint.
	Indicates sealant to be applied.
	Indicates backer rod to be installed.
	Indicates caulking to be applied.
	Fire Extinguisher Hook
	Fire Extinguisher Cabinet
	Dot Indicates dimension taken from structural grid line.
	Concealed Sprinkler Head Located in Ceiling
	Card Reader
	Door Operator
	Door Monitoring
	"Exit Package"
	Speaker Located in Ceiling
	Smoke Detector Located in Ceiling
	Electrical Cord Extension Reel Located in Ceiling
	Occupancy Sensor
	Microphone Located in Ceiling
	Power, Data, Audio Video Floor box
	Power and Data Ceiling Service Drop
	Photo Cell Located in Ceiling
	Wall Mounted Fire Extinguishers (by owner)
	Plugmold (Power only)
	Split Compartment Plugmold (Power and Data)
	Roller Window Shade
	Horizontal Louver Shade

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Notes:

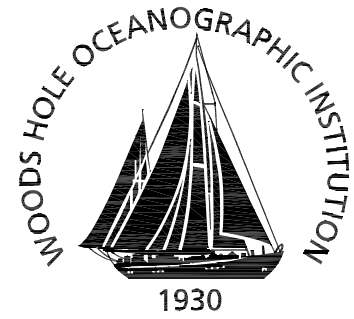
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Job Number	31003
Drawing By	-
Checked By	-
Filename	31003-T0.3
Date	15 APRIL 2011
Revisions	

ABBREVIATIONS	
GENERAL NOTES	
GRAPHIC SYMBOLS	
CONSTRUCTION DOCUMENTS Scale: NTS	

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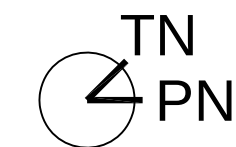
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Notes:



Keyplan

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Drawing By	-
Checked By	-
Filename	31003-T0.4
Date	15 APRIL 2011

Revisions

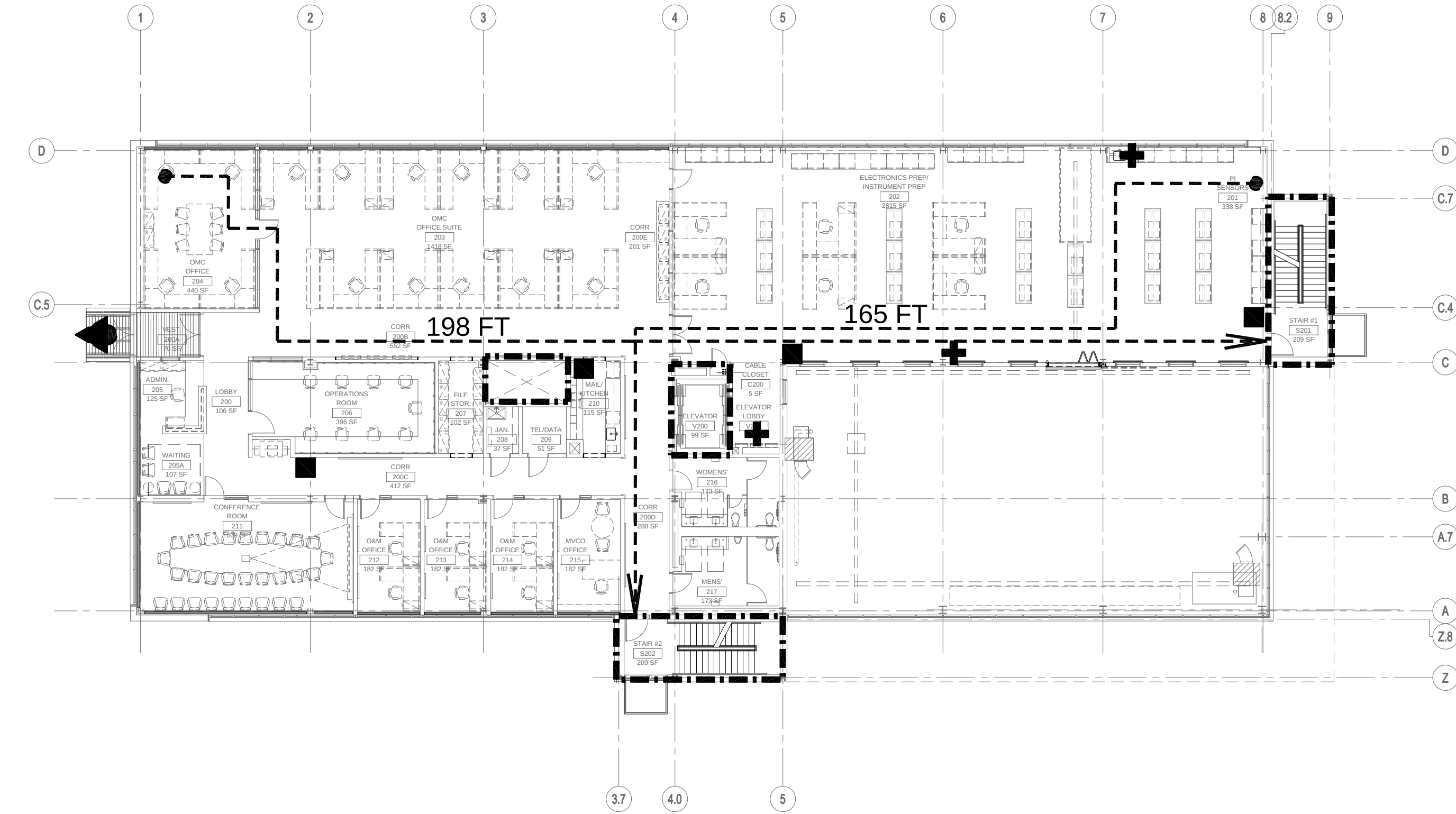
LIFE SAFETY DIAGRAMS

CONSTRUCTION DOCUMENTS
Scale: 1/16" = 1'-0"

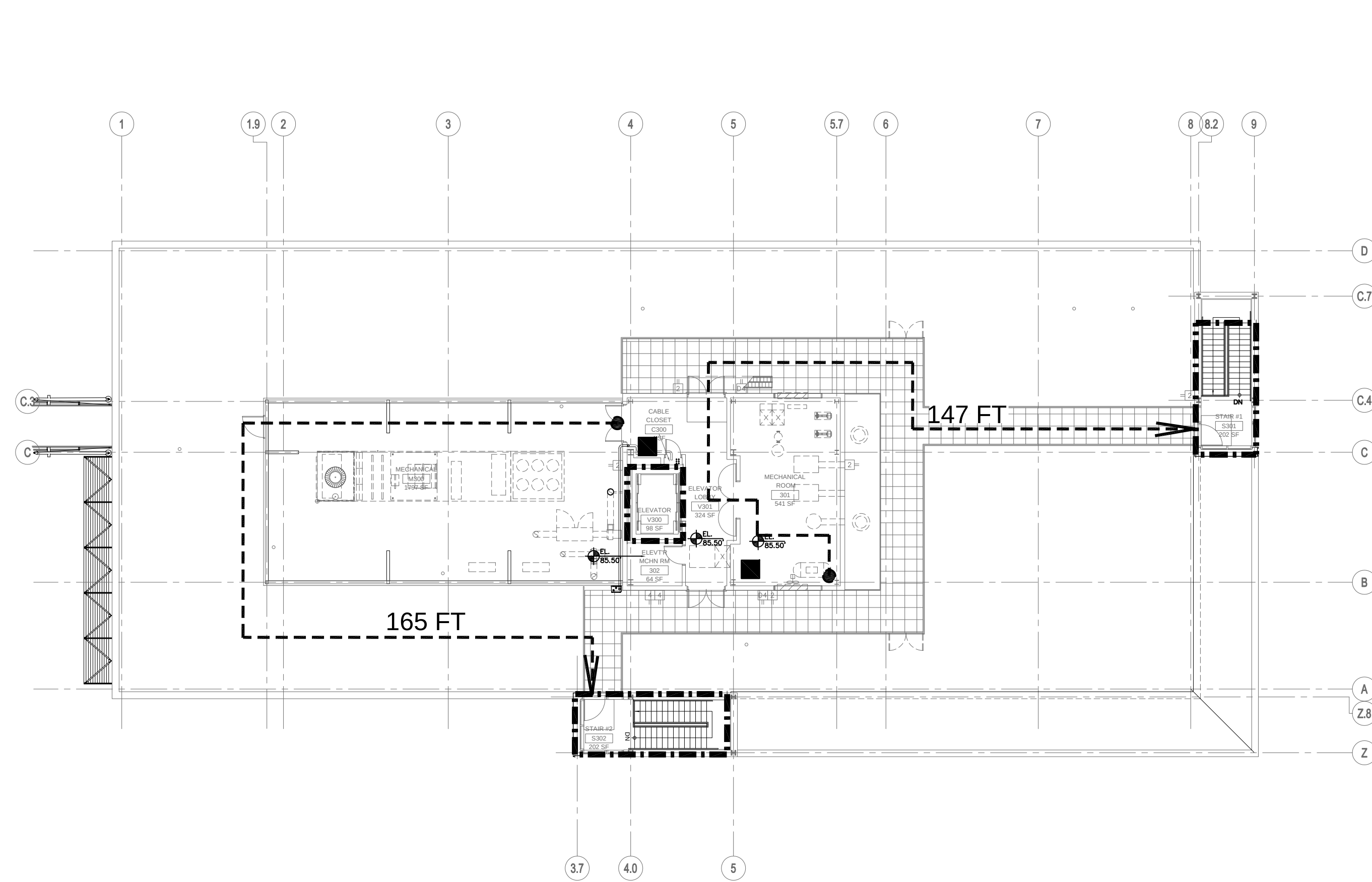
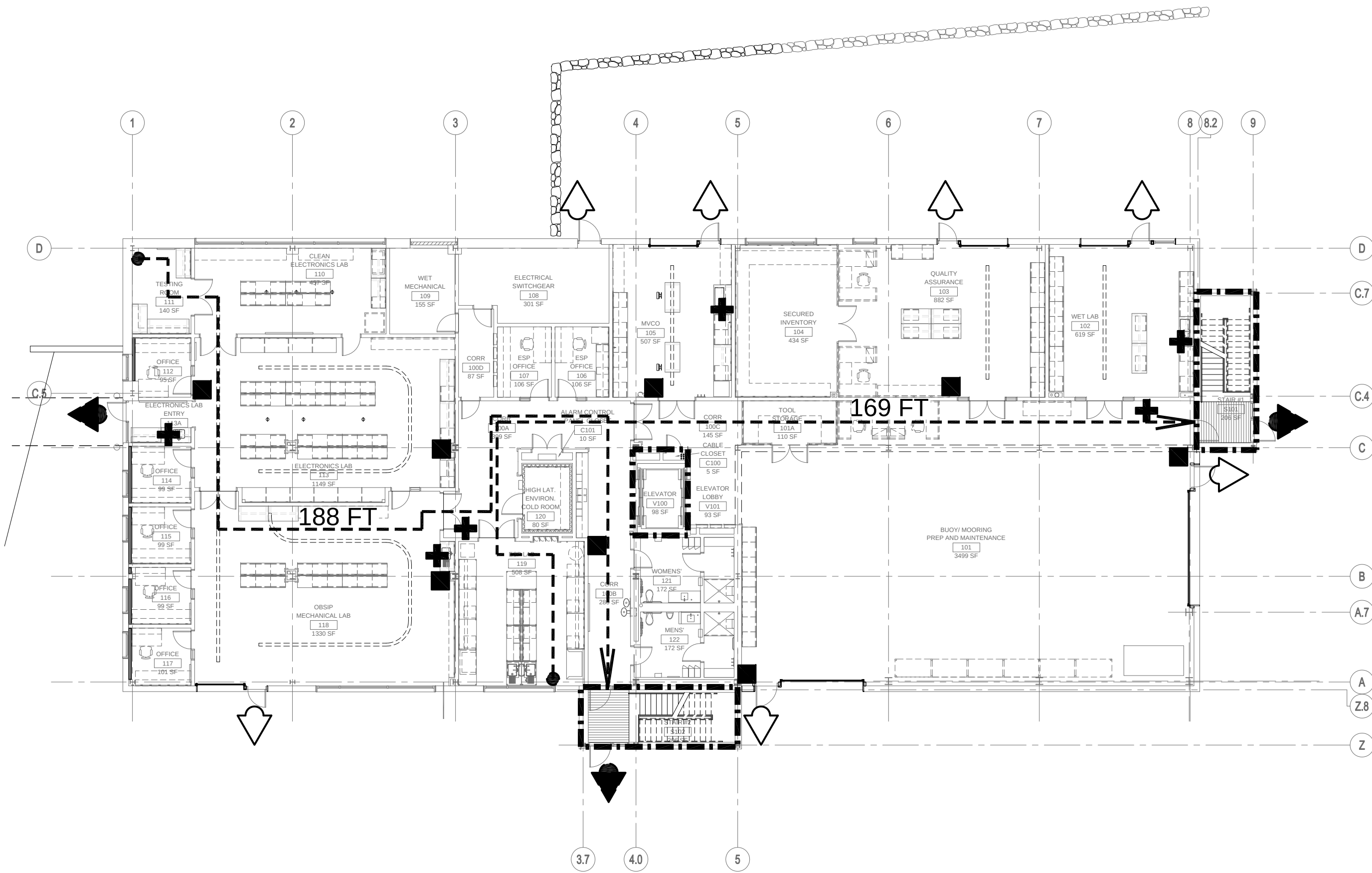
LEGEND

- 1 hr UL Rated Wall
- Maximum Travel Distance
- Egress Door
- Non-Egress Door
- Wall Mounted Fire Extinguisher Locations
- EMERGENCY EYEWASH AND/OR SHOWER-EYEWASH COMBO STATIONS

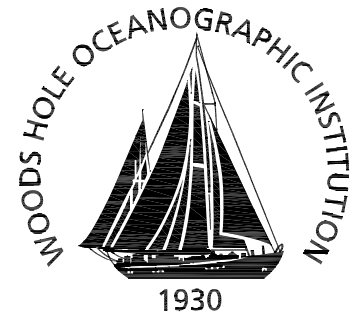
2 SECOND FLOOR EGRESS TRAVEL PATH/ EXITS
1/16" = 1'-0"



1 FIRST FLOOR EGRESS TRAVEL PATH/ EXITS
1/16" = 1'-0"

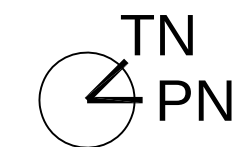


3 PENTHOUSE FLOOR EGRESS TRAVEL PATH/ EXITS
1/16" = 1'-0"



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Notes:



Keyplan

Job Number	31003
Drawing By	-
Checked By	-
Filename	31003-T0.5
Date	15 APRIL 2011

Revisions

STRUCTURAL STEEL FIREPROOFING SCHEDULE

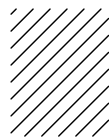
CONSTRUCTION DOCUMENTS
Scale: 1/16" = 1'-0"

T0.5

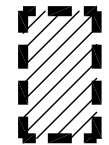
NOTES:

- DUCT SHAFT ENCLOSURES SHALL BE OF 1 HR. FIRE RATED SHAFT WALL SYSTEM WHICH SHALL EXTEND BELOW FLOOR LEVEL AT BOTTOM OF SHAFT (WITH BOTTOM OF SHAFT CLOSED USING HORIZONTAL SHAFT WALL SYSTEM). ALL DUCTS PENETRATING THE SHAFT ENCLOSURE SHALL HAVE FIRE DAMPERS (TYP AT ALL FLOORS).
- ALL VERTICAL PIPES AND DUCTS IN CHASES AND ELSEWHERE WHICH PENETRATE A FIRE RATED FLOOR OR ROOF SLAB SHALL HAVE SLEEVES CAST INTO THE SLAB, WITH U.L. RATED FIRE STOPPING AROUND EACH PIPE AND DUCT AS APPROPRIATE TO ITS MATERIAL AND GROUPING (TYP AT ALL FLOORS).
- ALL HORIZONTAL PIPES AND DUCTS PENETRATING FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH U.L. RATED SYSTEM AROUND EACH PIPE AND DUCT AS APPROPRIATE TO ITS MATERIAL AND GROUPING. (TYP AT ALL FLOORS)
- ALL JOINTS BETWEEN FIRE RATED ASSEMBLIES, AND BETWEEN FIRE RATED FLOOR OR ROOF ASSEMBLIES AND EXTERIOR WALLS SHALL BE FIRE STOPPED WITH U.L. RATED SYSTEMS TO MAINTAIN THE SAME RATING AS THE ASSEMBLY.
- 1 HOUR RATED FLOOR AND STRUCTURAL ASSEMBLIES ARE REQUIRED WHERE PROVIDING SUPPORT FOR 1 HOUR RATED SHAFT ENCLOSURES (MA STATE BUILDING CODE SECTION 704.1)
- ANY REFERENCE TO STRUCTURE SHALL BE ENTIRELY INTENDED FOR FIREPROOFING SCOPE AND INTENT ONLY. REFER TO S-SERIES DRAWINGS FOR ALL STRUCTURAL COORDINATION.

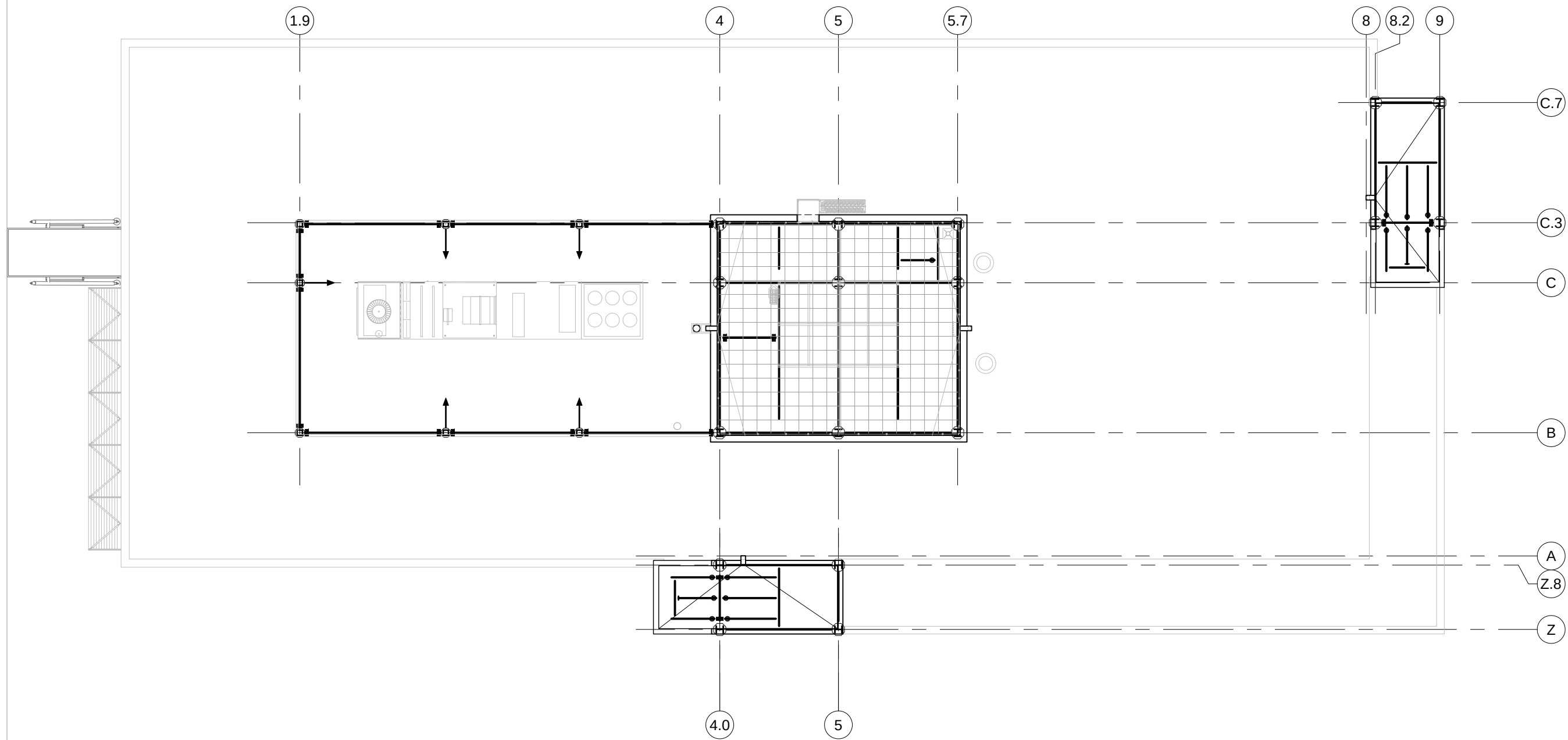
KEY/LEGEND



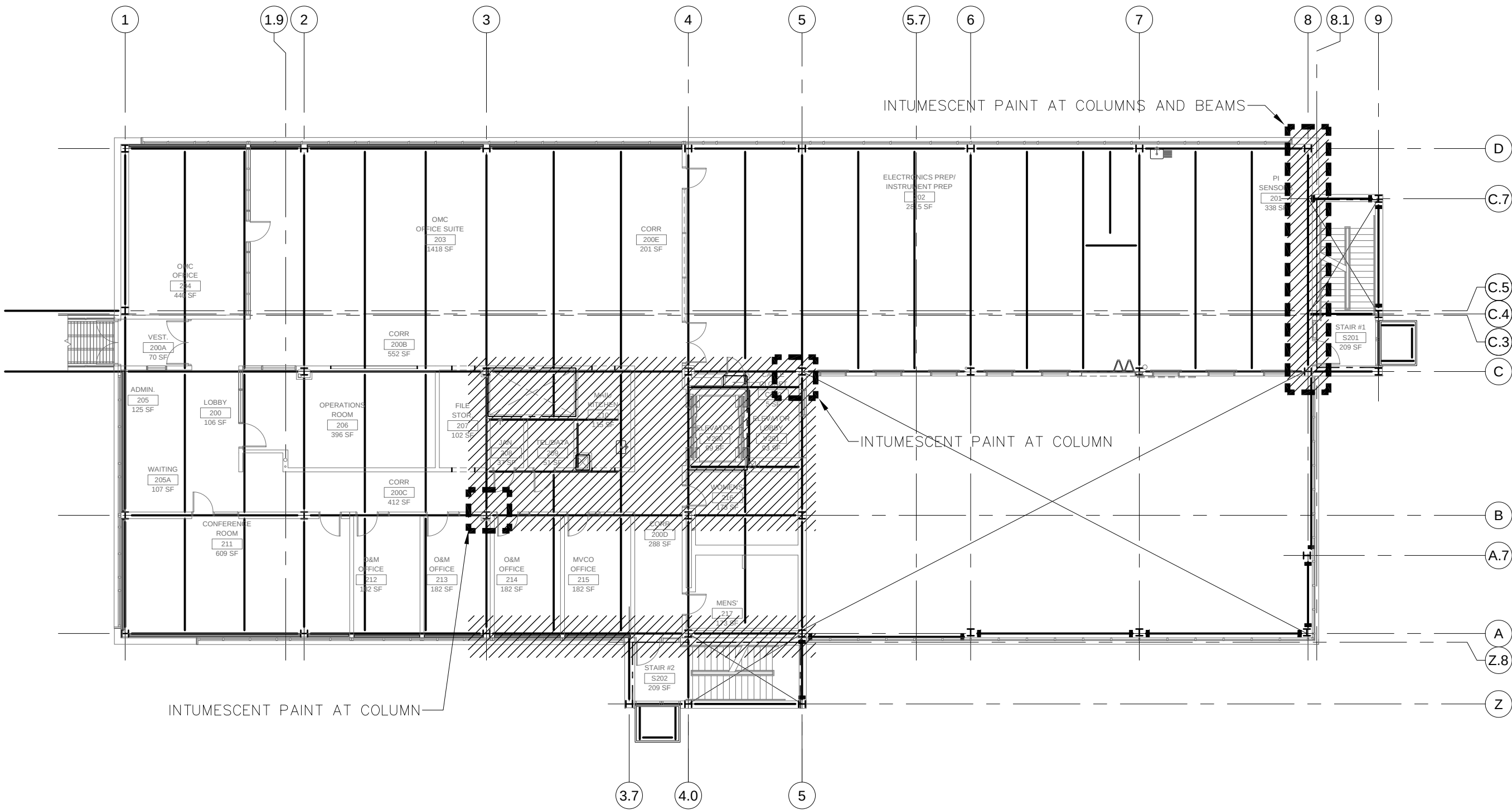
HATCHED AREA INDICATES REQUIRED AREA OF SPRAY-FIREPROOFING



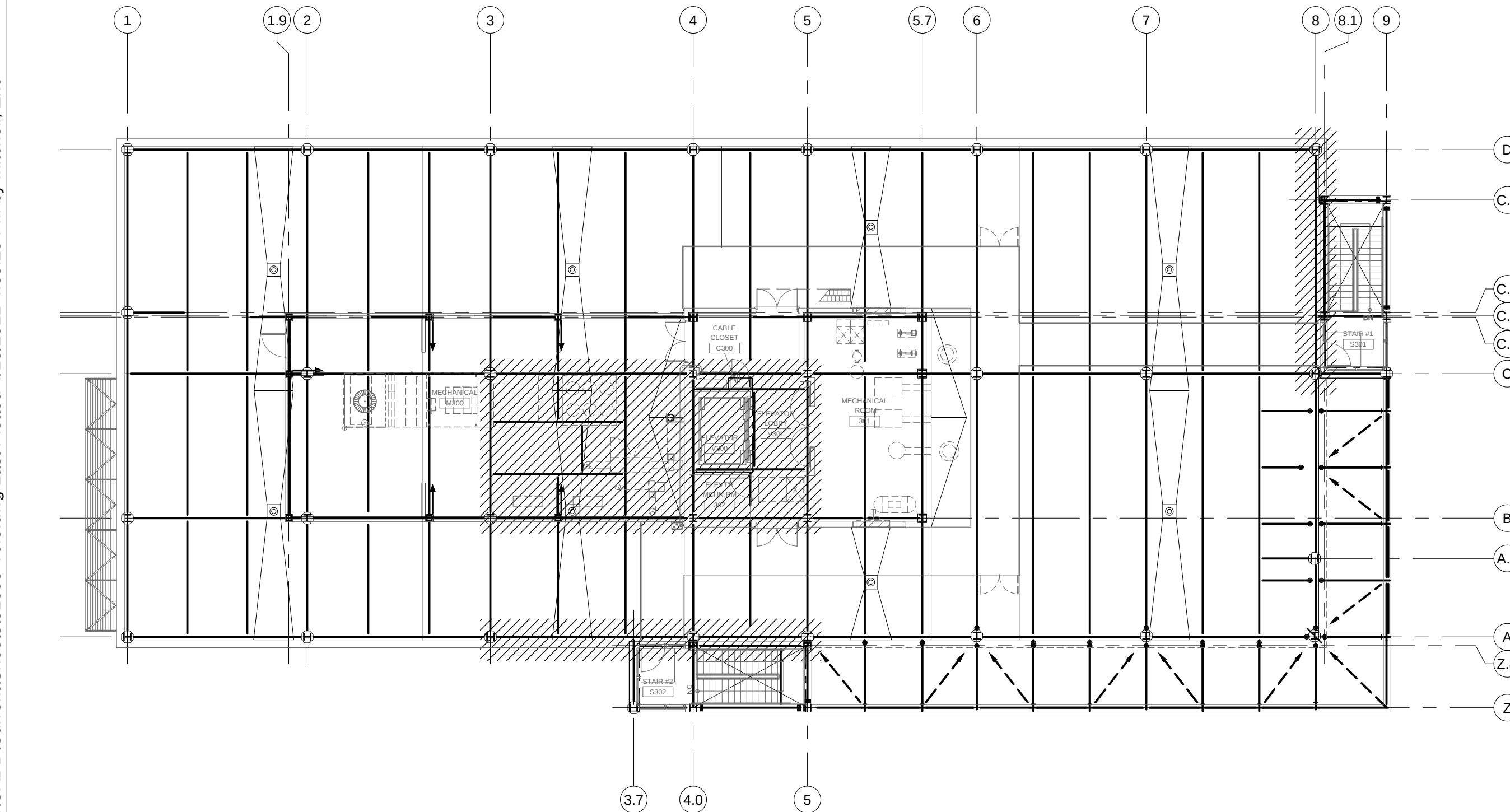
HATCHED AREAS NOTED WITH DASHED BUBBLE INDICATE USE OF INTUMESCENT PAINT AT ALL EXPOSED STEEL.



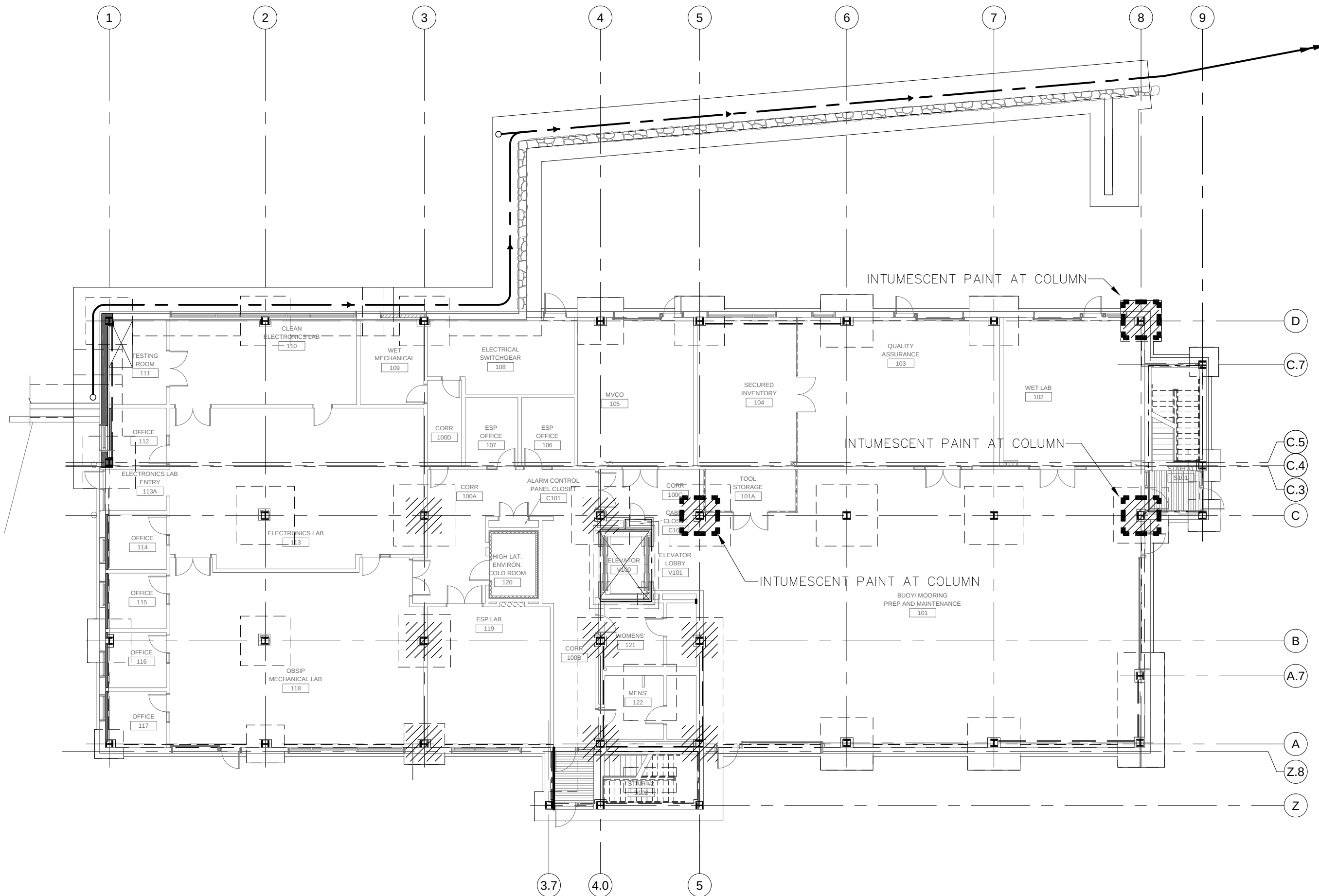
4 PENTHOUSE ROOF FRAMING PLAN
1/16" = 1'-0"



2 LEVEL 2 FRAMING PLAN
1/16" = 1'-0"



3 PENTHOUSE FRAMING PLAN
1/16" = 1'-0"

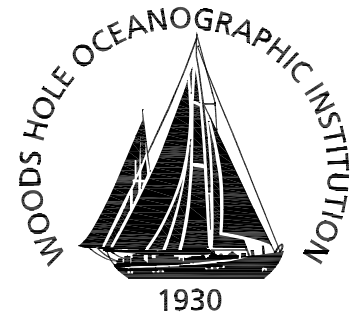


1 LEVEL 1 FRAMING PLAN
1/16" = 1'-0"

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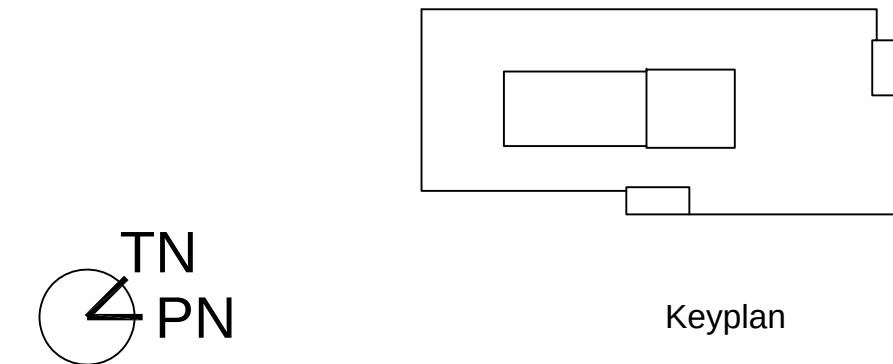
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- Notes:
- FOR EXTERIOR DIMENSIONS, INTERIOR DIMENSIONS, PARTITIONS TYPES, AND EXTERIOR BLDG. SECTION, WALL SECTION AND DETAIL KEYS, REFER TO SHEET A1.1-PT
 - PROVIDE METAL OR PLYWOOD BLOCKING AT ALL LOCATIONS WHERE SHELVING IS INDICATED.



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Drawing By	GC/EM
Checked By	EM/NC
Filename	31003-A1.1
Date	15 APRIL 2011

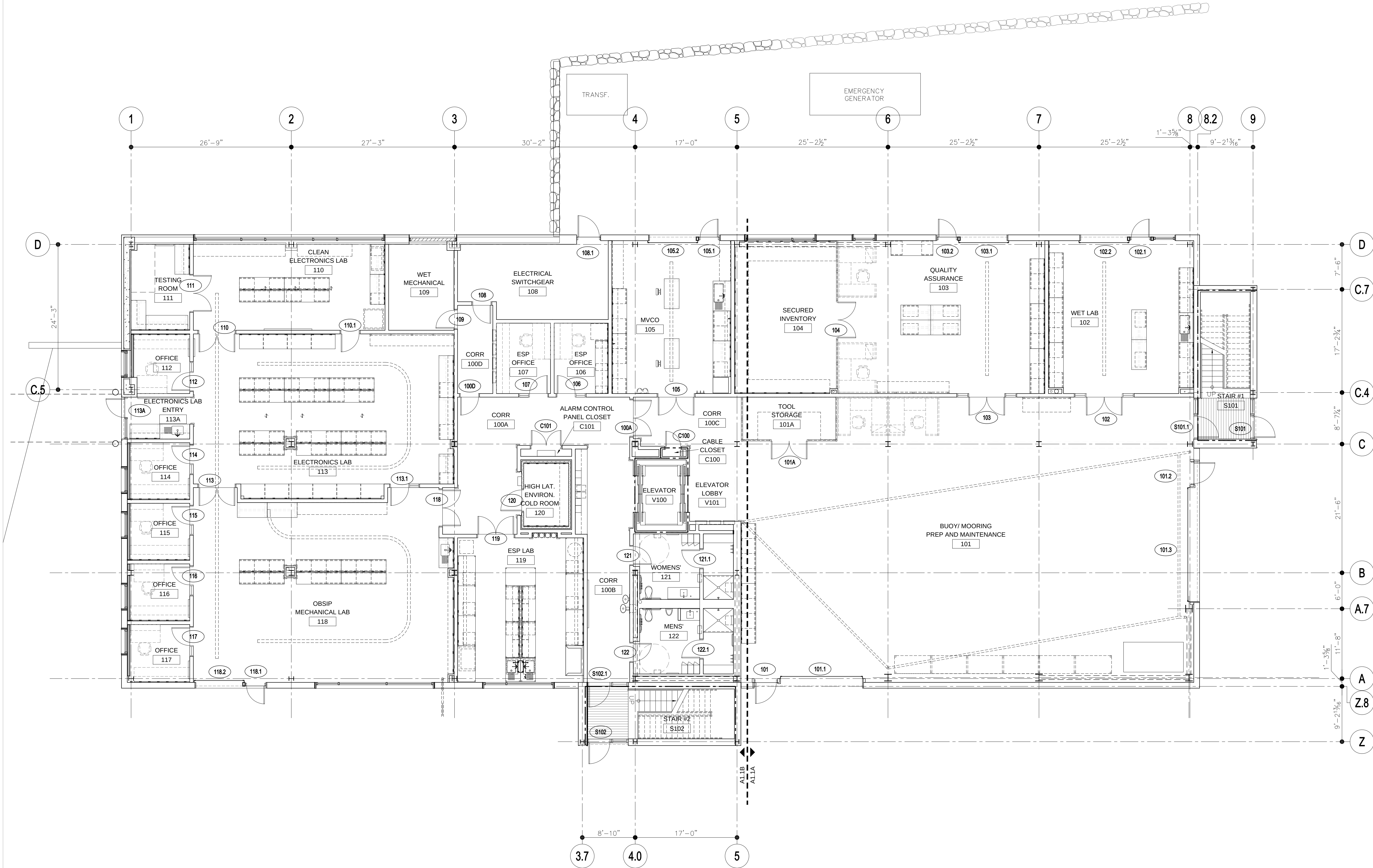
Revisions

FIRST FLOOR PLAN

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A1.1

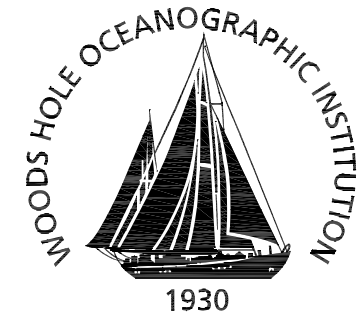
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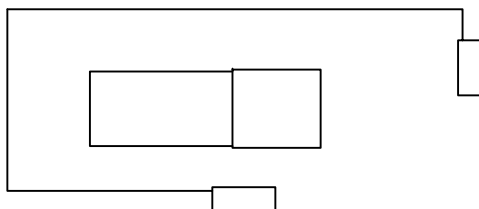
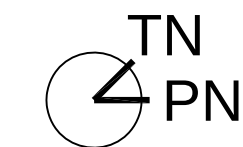
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 - PROVIDE METAL OR PLYWOOD BLOCKING AT ALL LOCATIONS WHERE SHELVING IS INDICATED.



Keyplan

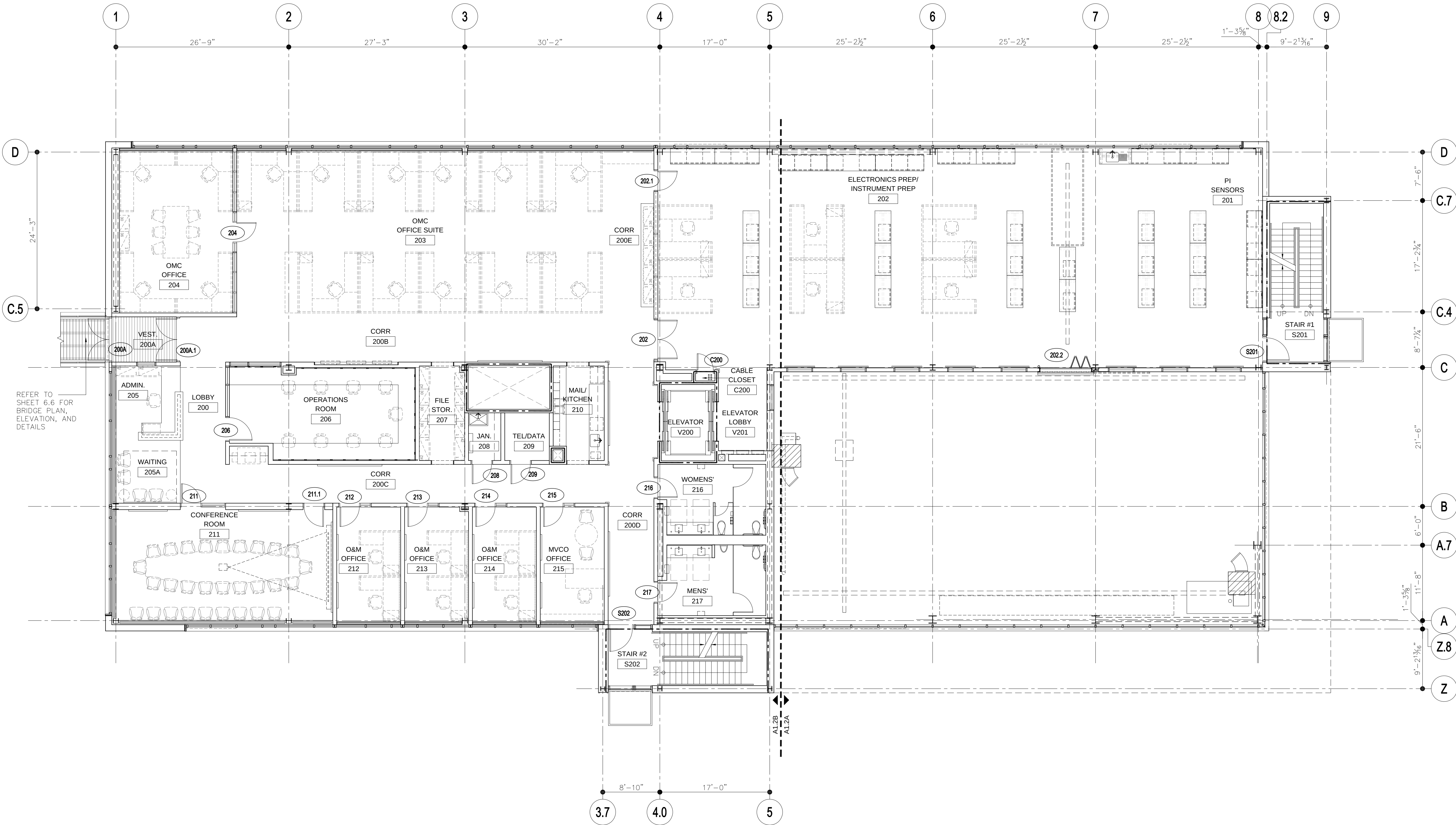
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Checked By	EM/NC
Filename	31003-A1.2
Date	15 APRIL 2011

Revisions

SECOND FLOOR PLAN

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A1.2

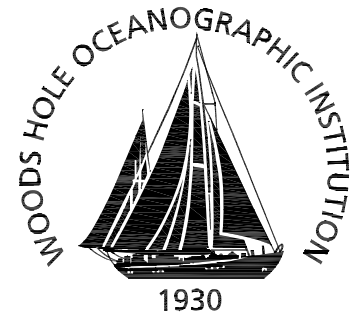


1 SECOND FLOOR PLAN
1/8" = 1'-0"

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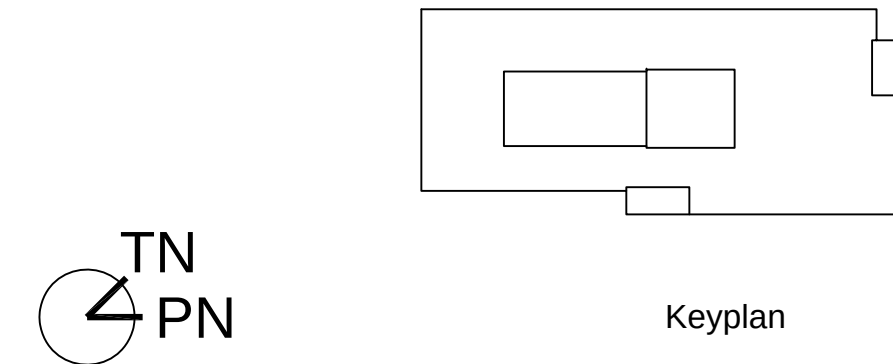
Laboratory of Ocean Sensors and Observing Systems (LOSOS)

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- Notes:
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 - PROVIDE METAL OR PLYWOOD BLOCKING AT ALL LOCATIONS REQUIRED BY MECHANICAL CONTRACTOR.



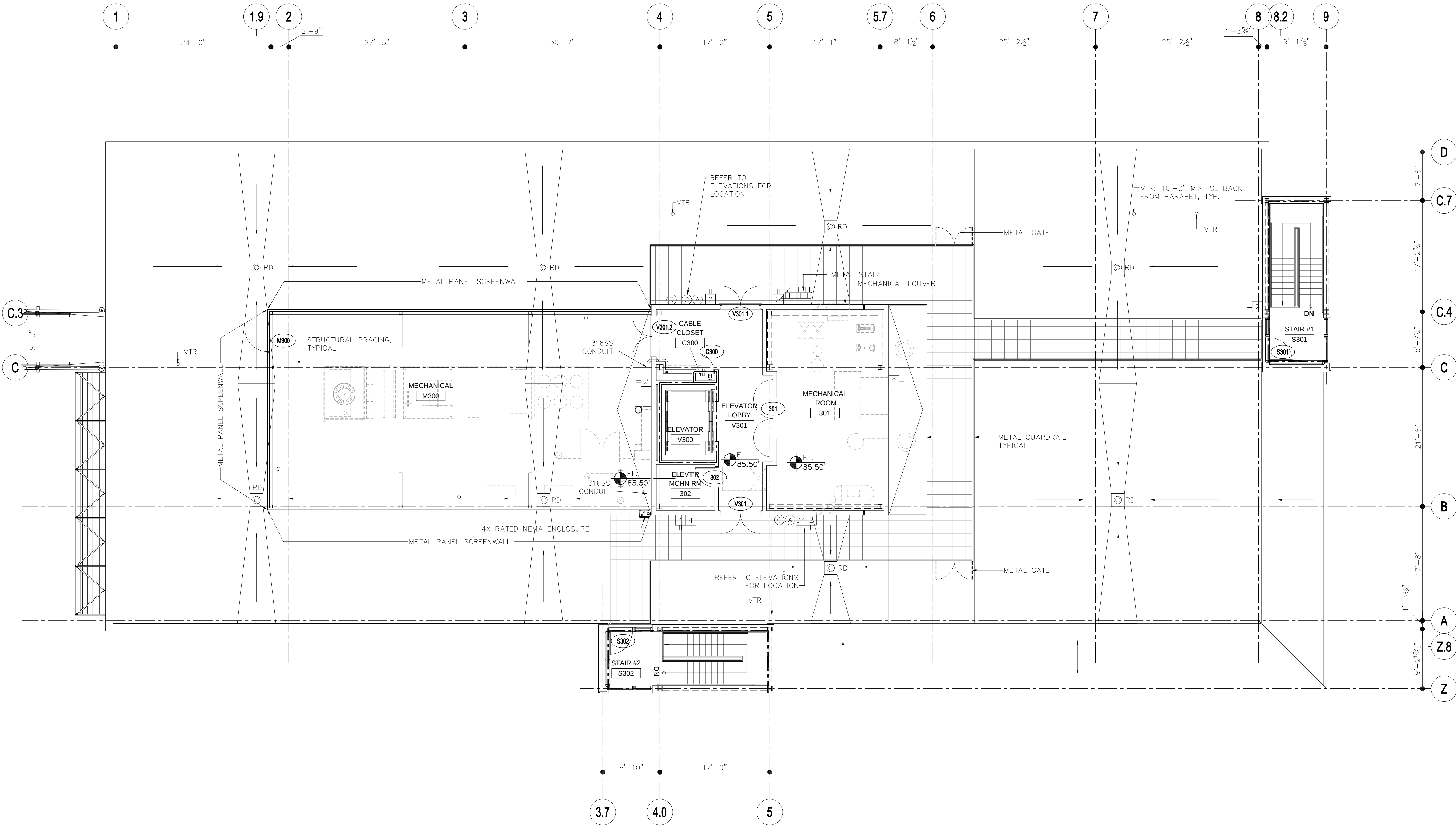
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Drawing By	ESM
Checked By	NC/ML
Filename	31003-A1.3
Date	15 APRIL 2011

Revisions

PENTHOUSE FLOOR PLAN

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

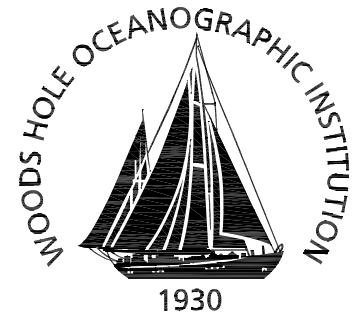
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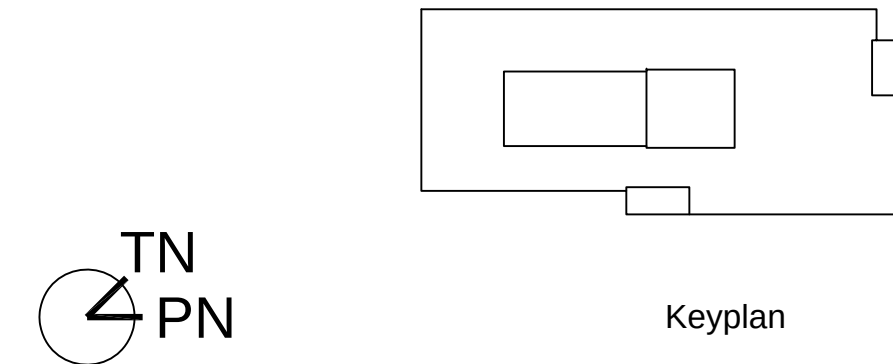
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Notes:



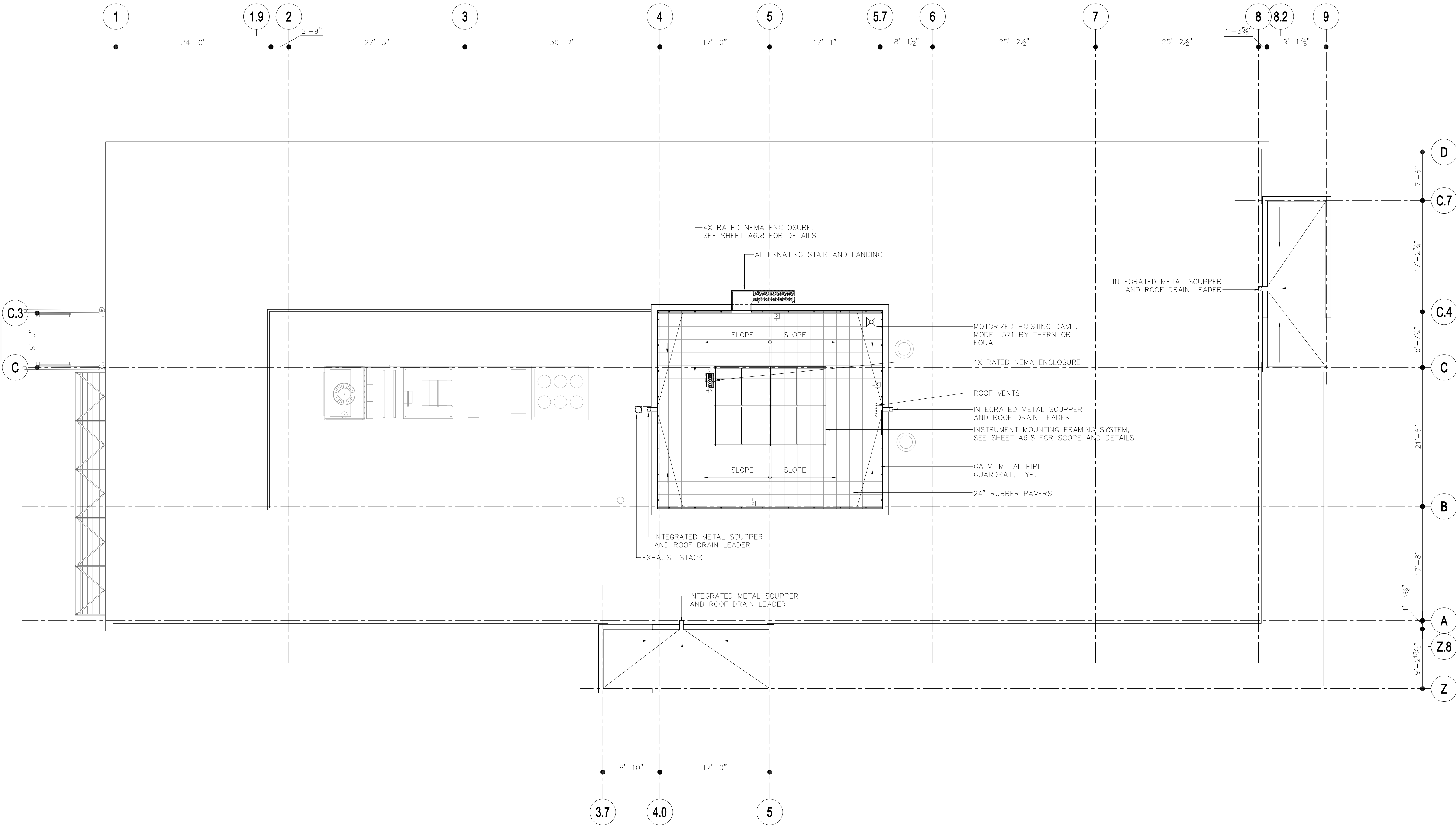
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Checked By	NC/ML
Filename	31003-A1.4
Date	15 APRIL 2011

Revisions

ROOF PLAN

CONSTRUCTION DOCUMENTS
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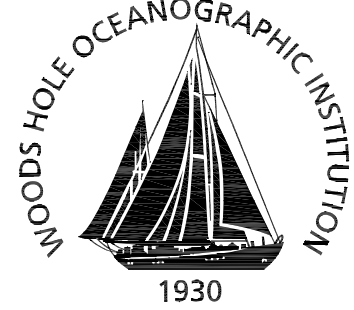
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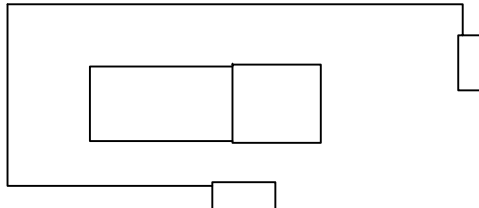
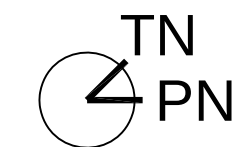
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Notes:



Keyplan

Job Number	31003
Drawing By	-
Checked By	-
Filename	31003-A1.1-PT
Date	15 APRIL 2011

Revisions

FIRST FLOOR PARTITION
TYPES DETAIL KEYS AND
DIMENSIONS

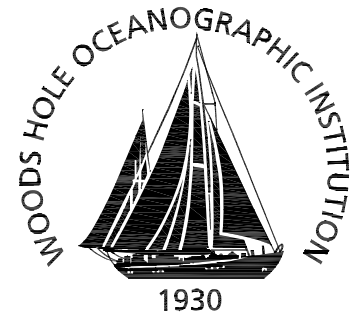
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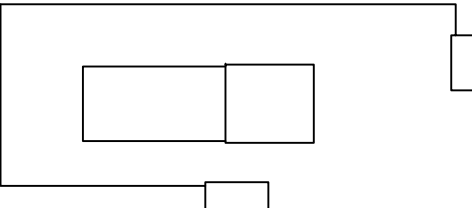
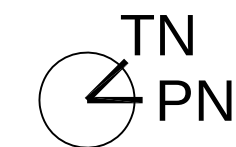
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Notes:



Keyplan

Job Number	31003
Drawing By	-
Checked By	-
Filename	31003-A1.2-PT
Date	15 APRIL 2011

Revisions

SECOND FLOOR
PARTITION TYPES DETAIL
KEYS AND DIMENSIONS

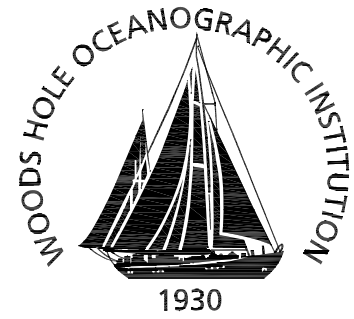
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A1.2-PT

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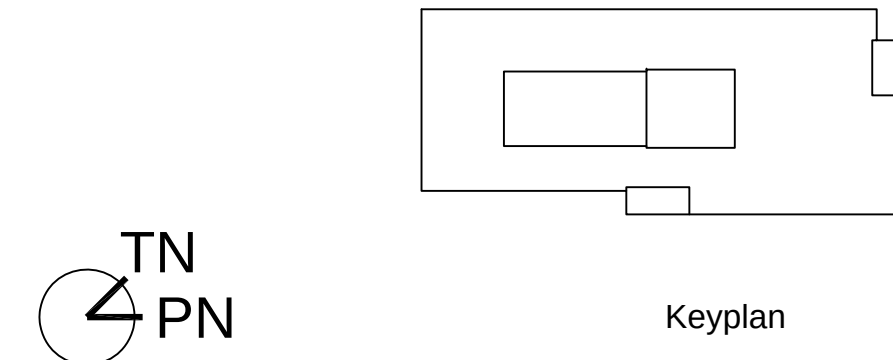
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Notes:



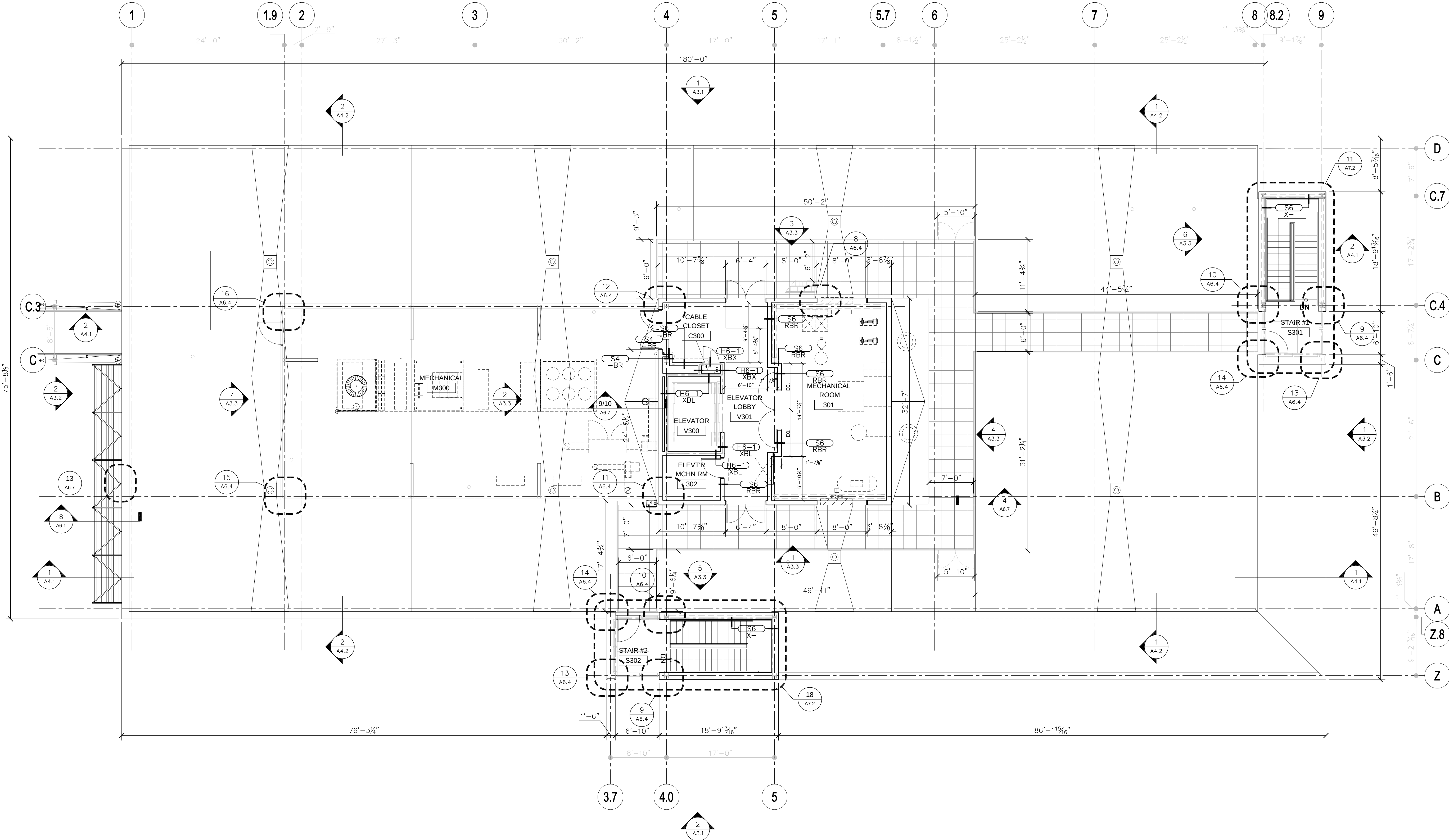
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Drawing By	-
Checked By	-
Filename	31003-A1.3-PT
Date	15 APRIL 2011
Revisions	

PENTHOUSE LEVEL
PARTITION TYPES DETAIL
KEYS AND DIMENSIONS

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A1.3-PT

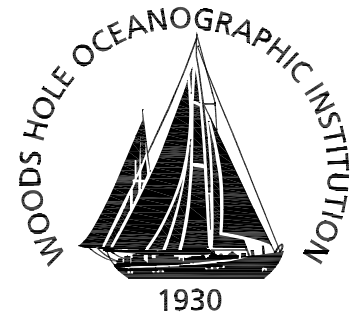
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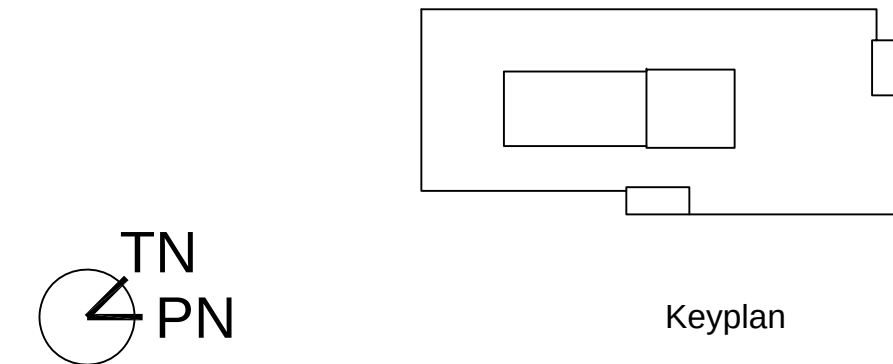
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BR+A Consulting Engineers Mechanical/Electrical/ Plumbing Engineer	The Arsenal on the Charles 311 Arsenal Street Watertown, MA 02472 (617) 254-0016
Columbia Construction Co. Construction Manager	100 Riverpark Drive P.O. Box 220 North Reading, MA 01864 (978) 664-9500

Notes:



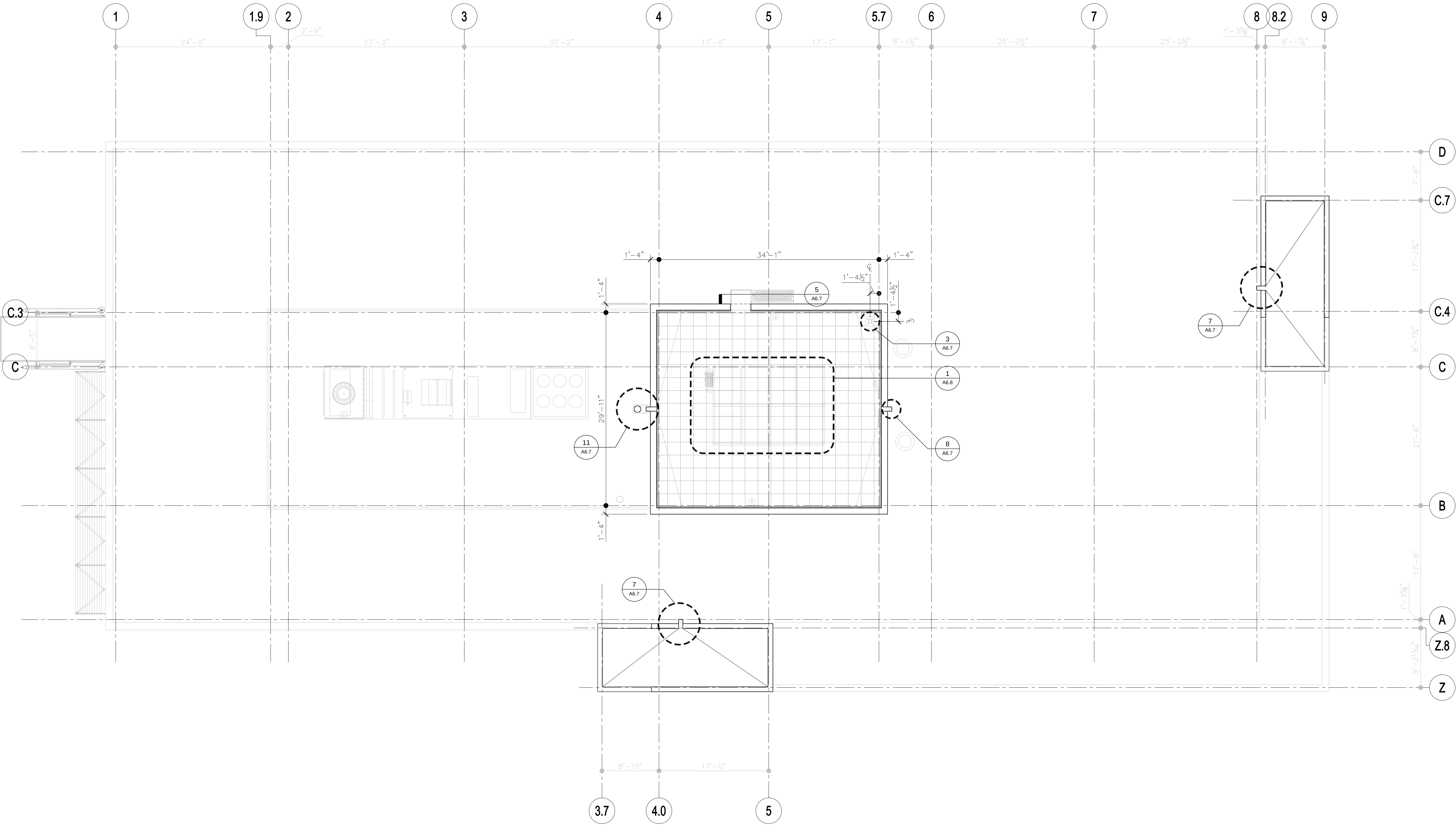
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Drawing By	ESM
Checked By	NC/ML
Filename	31003-A1.4-PT
Date	15 APRIL 2011

Revisions

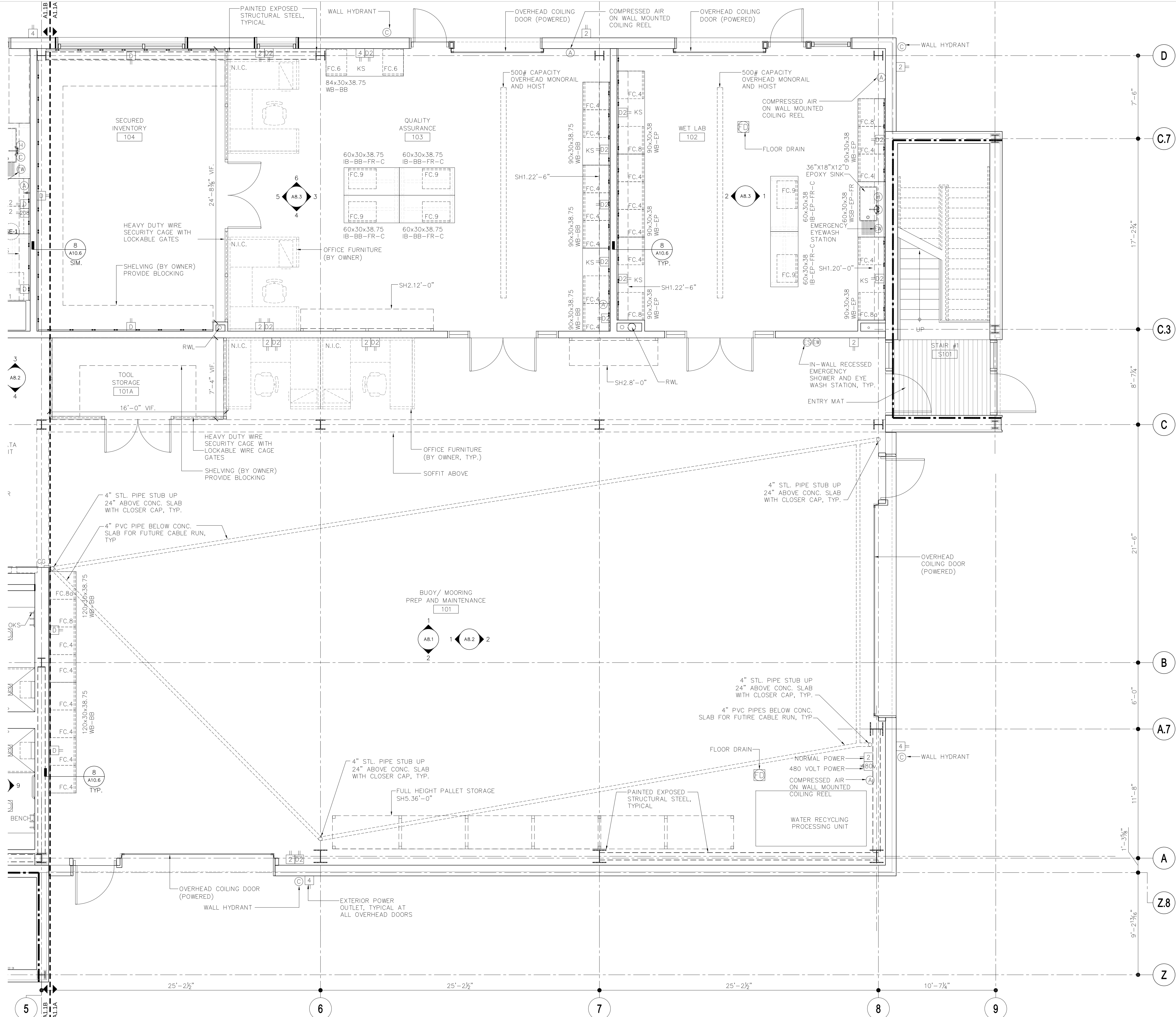
PENTHOUSE ROOF LEVEL
PARTITION TYPES
DETAIL
KEYS AND DIMENSIONS

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A1.4-PT



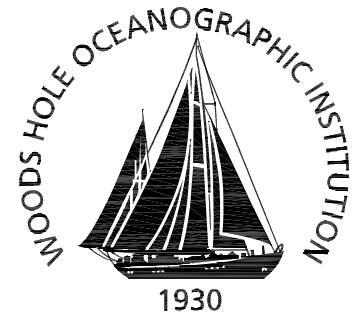
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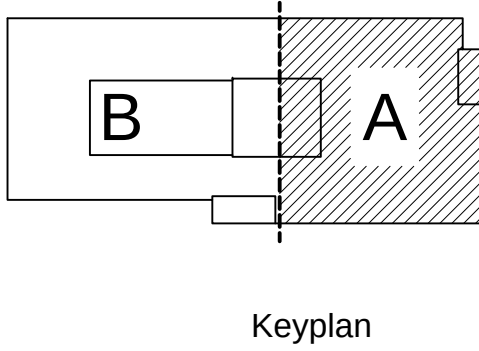
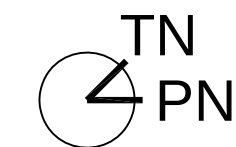
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Ellenzweig	1280 Massachusetts Avenue Cambridge, MA 02138 (617) 491-5575
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Notes:
1. REFER TO A10-SERIES DRAWINGS FOR CASEWORK SCHEDULE AND DETAIL INFORMATION



Job Number 31003
Drawing By ESM/GC
Checked By NC/ML
Filename 31003-A1.1A
Date 15 APRIL 2011

Revisions

ENLARGED FIRST FLOOR PLAN - A

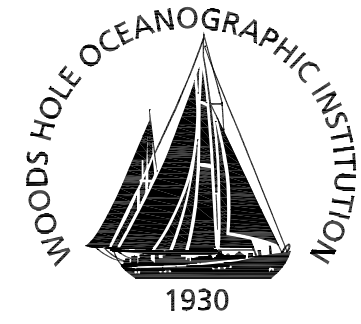
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Scale: 1/4" = 1'-0"

A1.1A

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Notes:
1. REFER TO A10--SERIES DRAWINGS FOR CASEWORK SCHEDULE
AND DETAIL INFORMATION



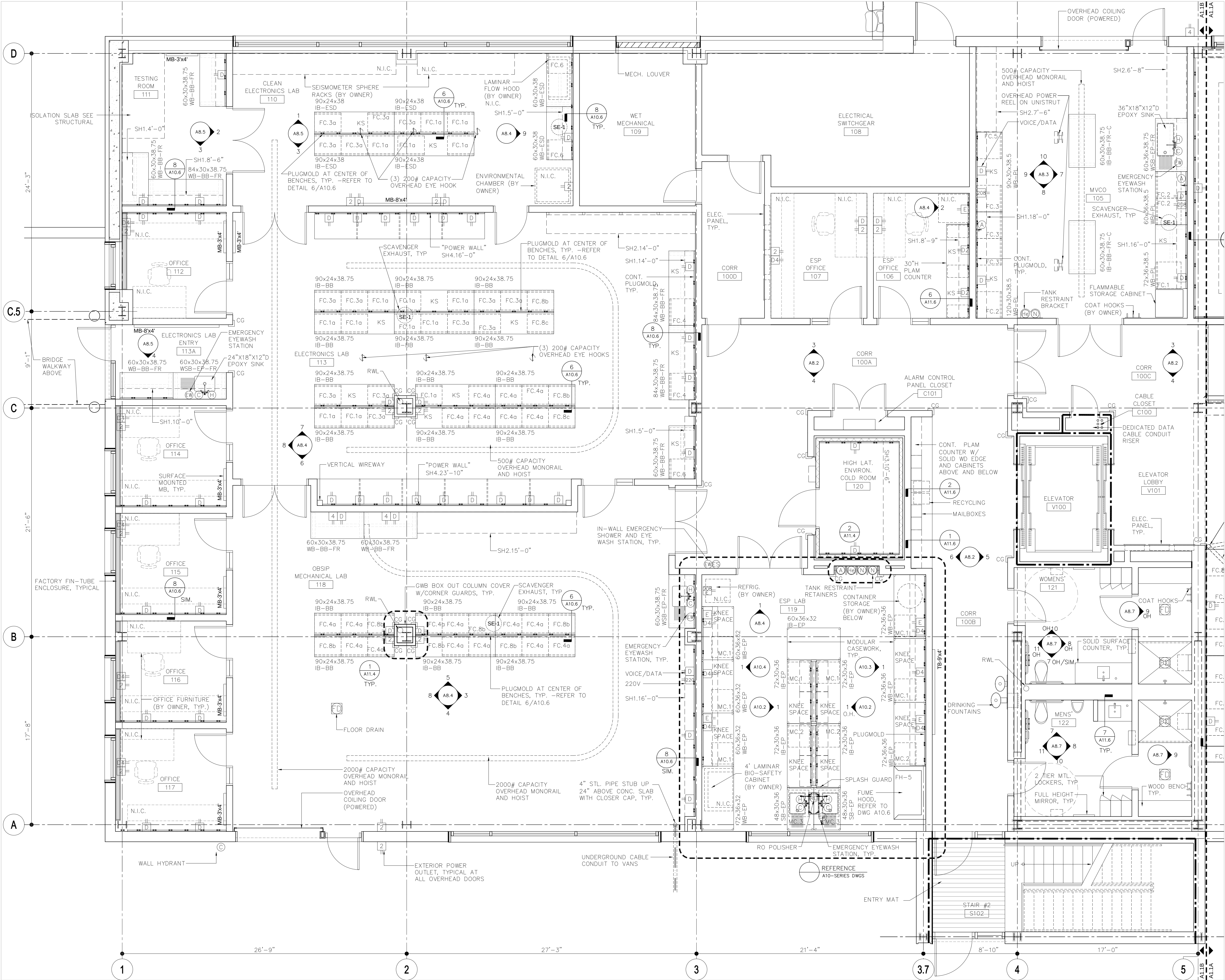
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Date 15 APRIL 2011

Revisions

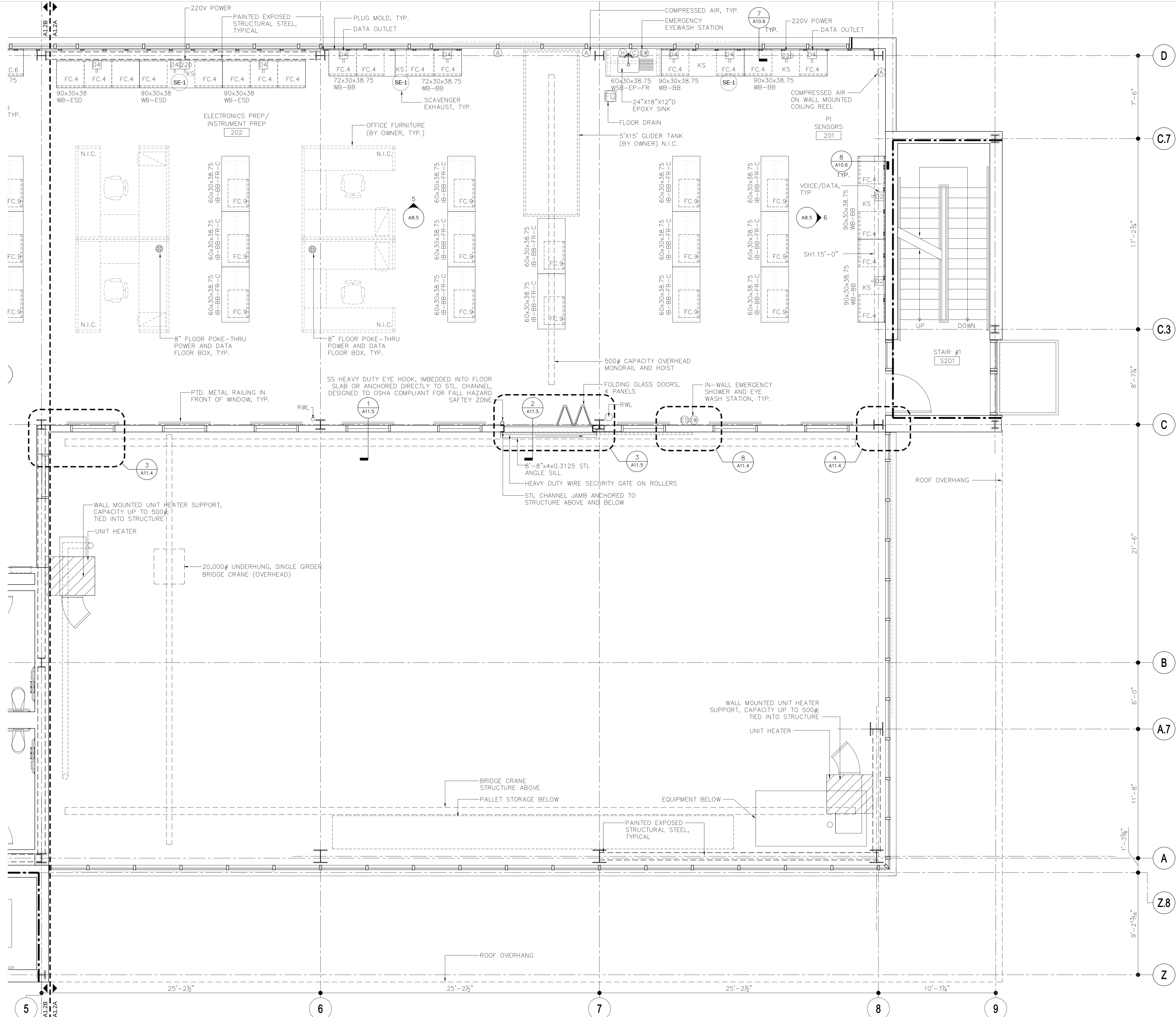
ENLARGED
FIRST FLOOR PLAN - B

CONSTRUCTION DOCUMENTS
Scale: 1/4" = 1'-0"

A1.1B



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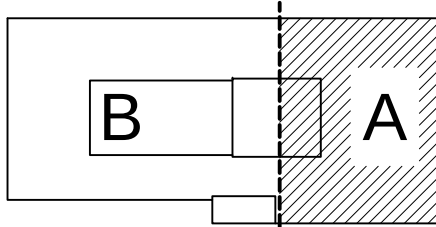
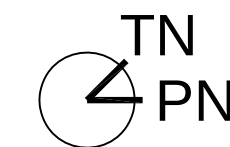
Holmes and McGrath, Inc. 362 Gifford Street
Civil Engineer Falmouth, MA 02540
(508) 548-3564

LeMessurier Consultants 675 Massachusetts Avenue
Structural Engineer Cambridge, MA 02139
(617) 868-1200

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Plumbing Engineer Watertown, MA 02472
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Notes:
1. REFER TO A10-SERIES DRAWINGS FOR CASEWORK SCHEDULE
AND DETAIL INFORMATION



Keyplan

Job Number 31003
Drawing By ESM/GC
Checked By NC/ML
Filename 31003-A1.2A
Date 15 APRIL 2011

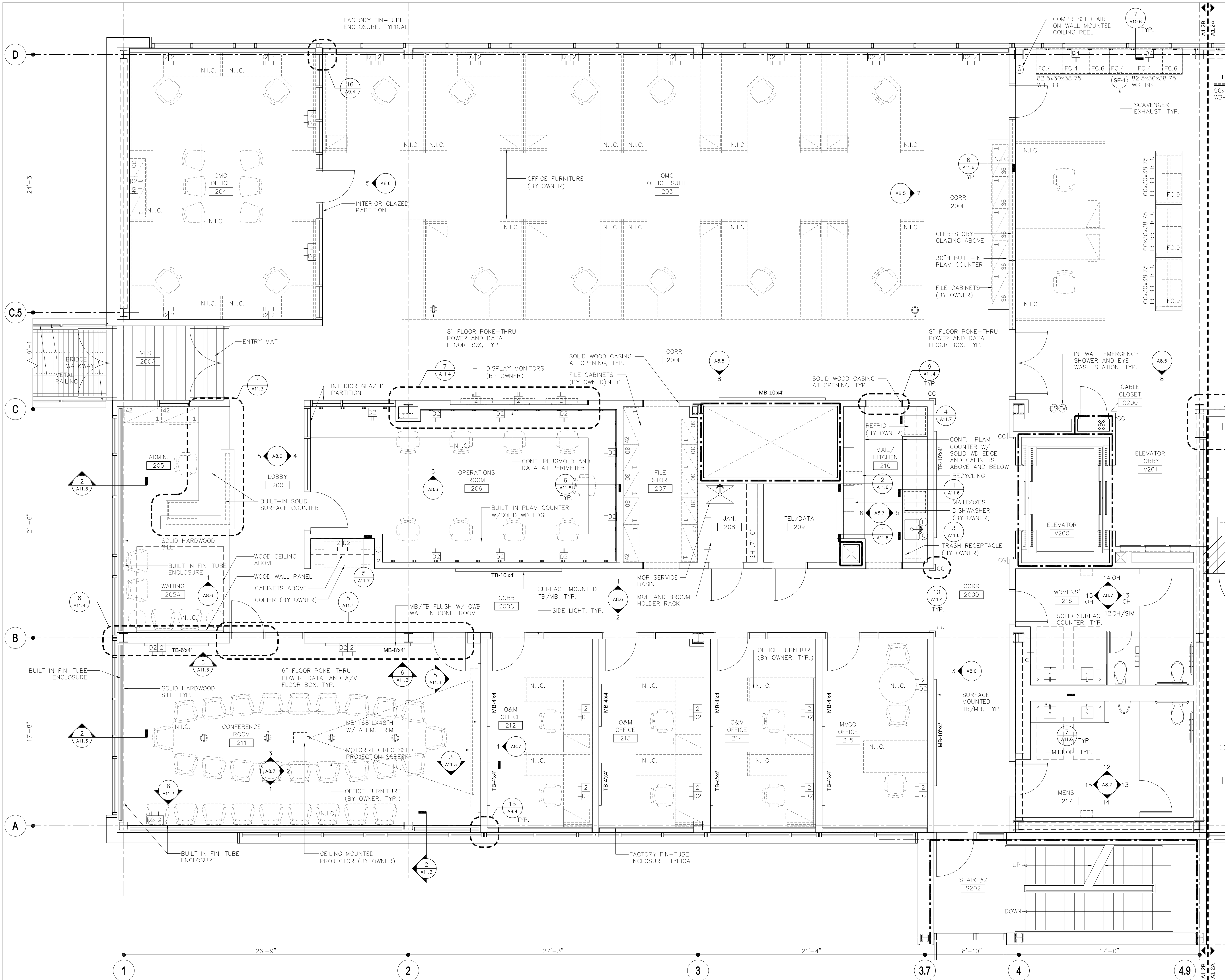
Revisions

ENLARGED SECOND FLOOR PLAN - A

CONSTRUCTION DOCUMENTS
Scale: 1/4" = 1'-0"

A1.2A

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Notes:
1. REFER TO A10--SERIES DRAWINGS FOR CASEWORK SCHEDULE
AND DETAIL INFORMATION



Job Number 31003
Drawing By ESM/GC
Checked By NC/ML
Filename 31003-A1.2B
Date 15 APRIL 2011

Revisions

ENLARGED SECOND FLOOR PLAN - B

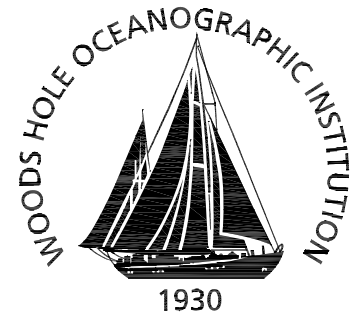
CONSTRUCTION DOCUMENTS
Scale: 1/4" = 1'-0"

A1.2B

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- Notes:
1. PAINT ALL EXPOSED STRUCTURE AND MEP SYSTEMS ABOVE CEILINGS, TYPICAL
 2. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE



Job Number	31003
Drawing By	ESM/GC
Checked By	NC/ML
Filename	31003-A2.1
Date	15 APRIL 2011

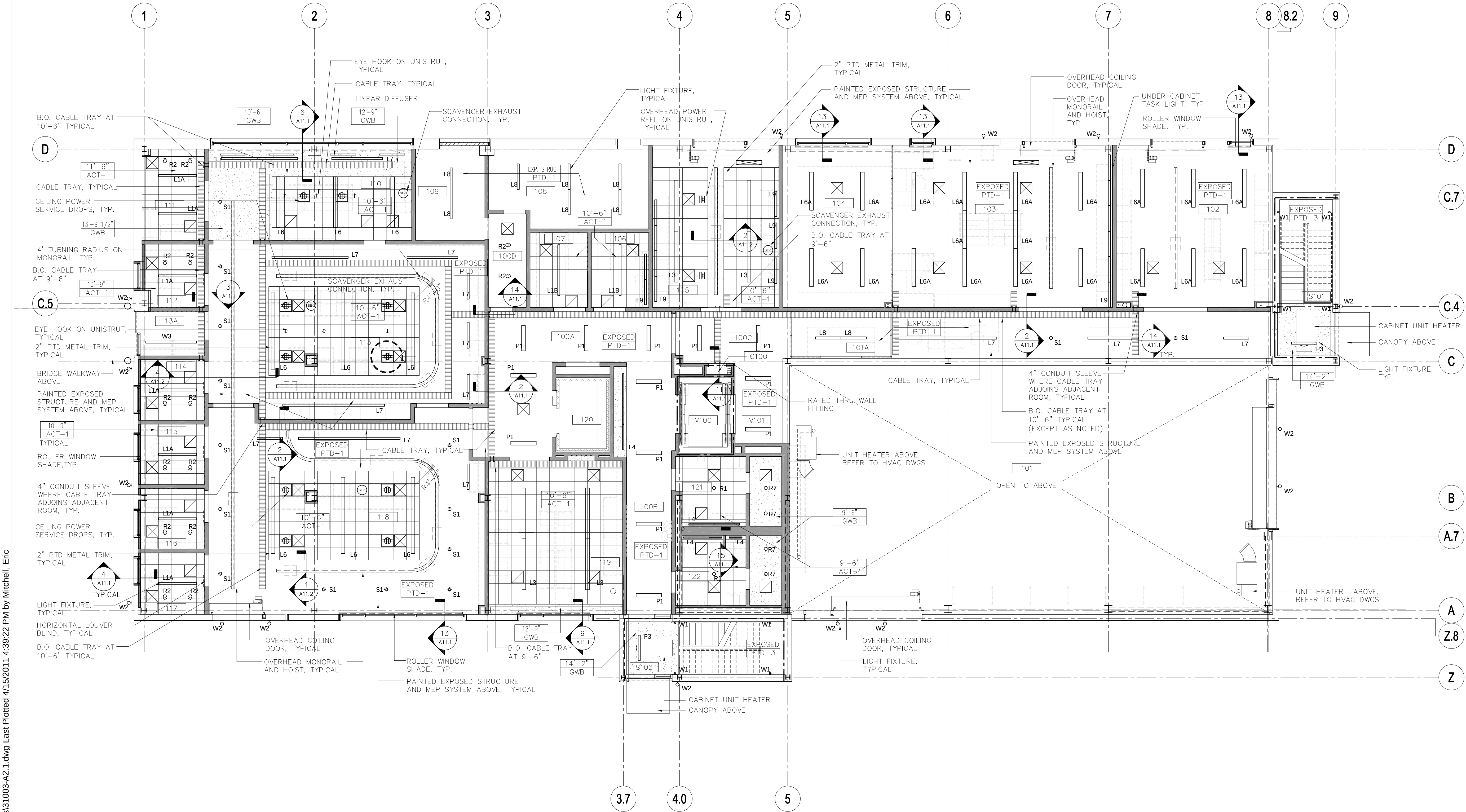
Revisions

FIRST FLOOR REFLECTED CEILING PLAN

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A2.1

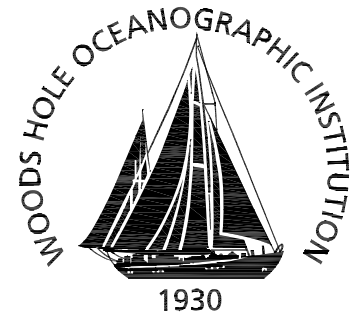
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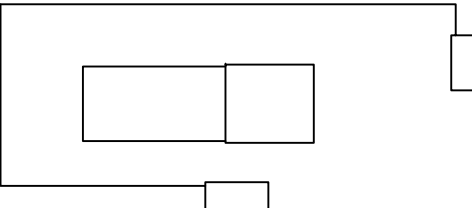
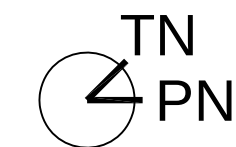
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- Notes:
1. PAINT ALL EXPOSED STRUCTURE AND MEP SYSTEMS ABOVE CEILINGS, TYPICAL
 2. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE



Keyplan

Job Number	31003
Drawing By	ESM/GC
Checked By	NC/ML
Filename	31003-A2.2
Date	15 APRIL 2011

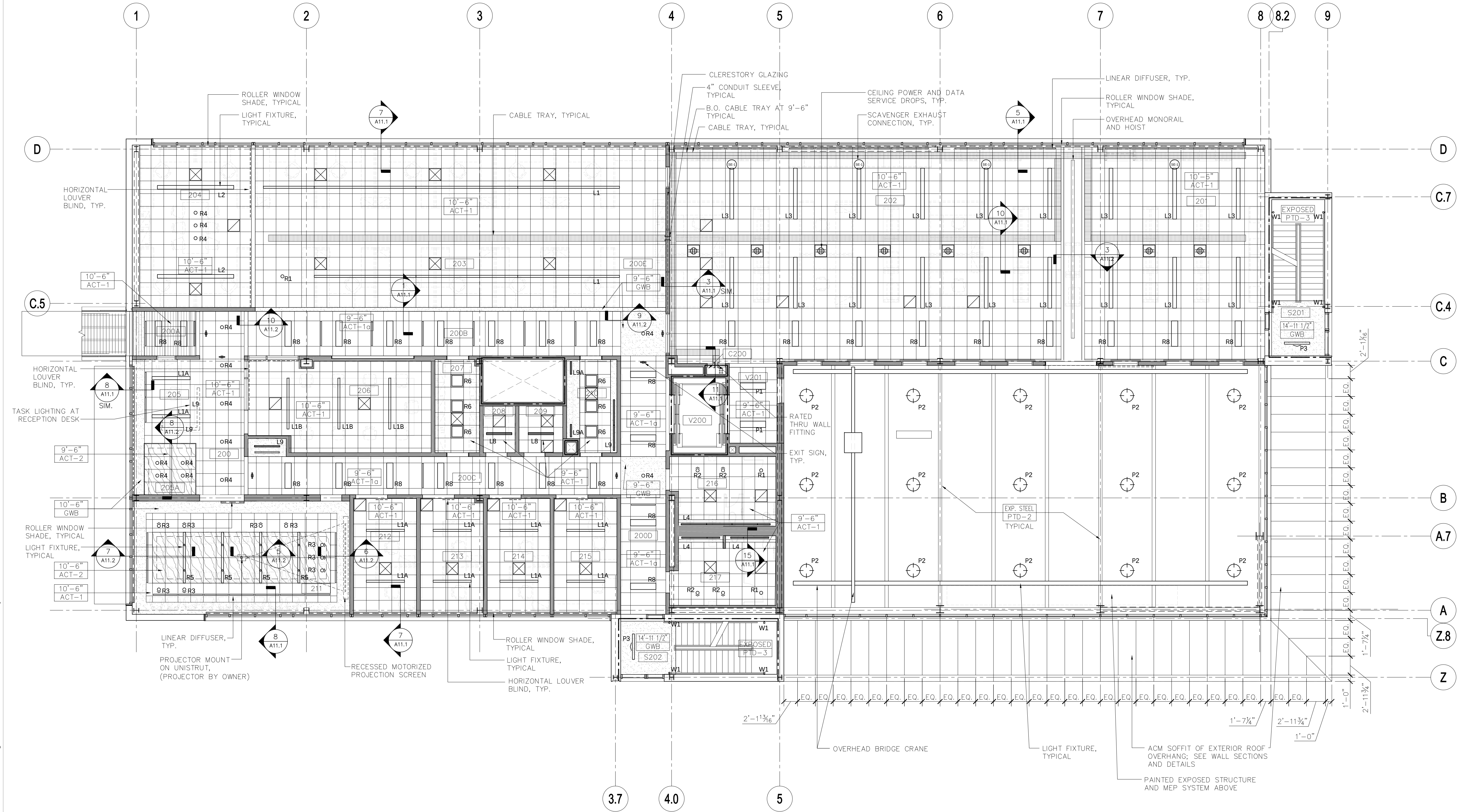
Revisions

SECOND FLOOR
REFLECTED CEILING PLAN

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A2.2

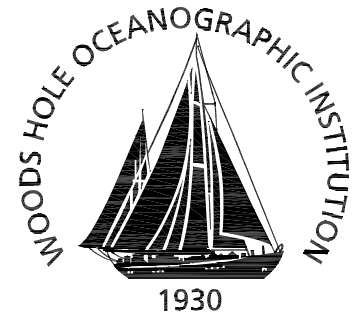
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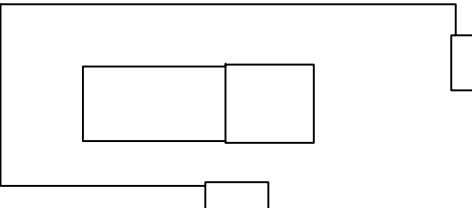
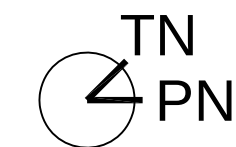
Laboratory of Ocean Sensors and Observing Systems (LOSOS)

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Columbia Construction Co. Construction Manager	100 Riverpark Drive P.O. Box 220 North Reading, MA 01864 (978) 664-9500

- Notes:
1. PAINT ALL EXPOSED STRUCTURE AND MEP SYSTEMS IN ROOM V301
 2. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE



Keyplan

Job Number 31003
Drawing By ESM/GC
Checked By NC/ML
Filename 31003-A2.3
Date 15 APRIL 2011

Revisions

A
Z.8

Z

PENTHOUSE FLOOR
REFLECTED CEILING PLAN

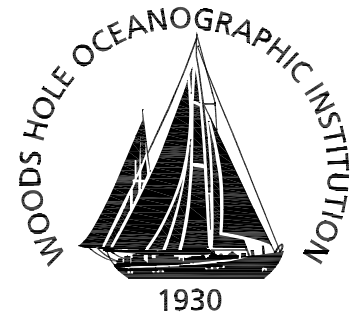
CONSTRUCTION DOCUMENTS
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A2.3

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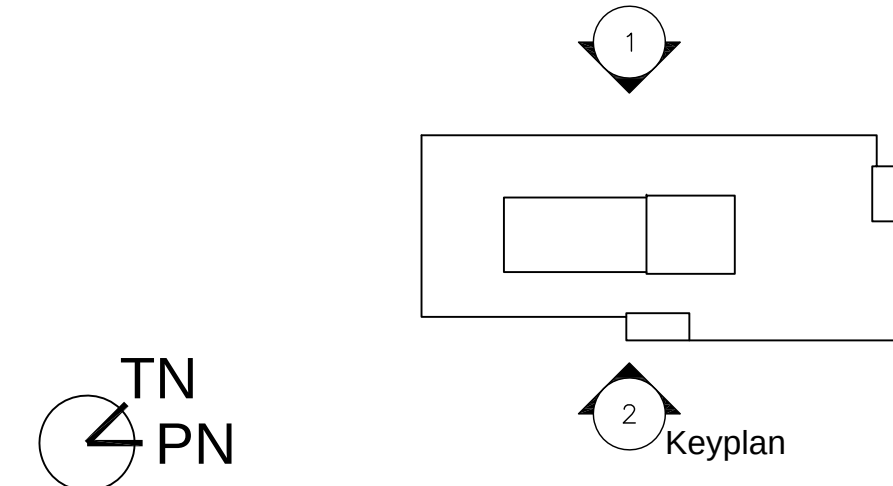
Laboratory of Ocean Sensors and Observing Systems (LOSOS)

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- Notes:
- ALL GALVANIZED METAL SHALL BE NATURAL FINISH UNLESS STATED OTHERWISE.
 - ALIGNMENT OF JOINTS, PANELS, SEAMS, ETC. SHALL BE FABRICATED AND ASSEMBLED PER DESIGN INTENT SHOWN ON BOTH ELEVATIONS AND/OR DETAILS. ANY CONFLICTS SHALL BE DOCUMENTED AND BROUGHT TO THE ATTENTION OF GENERAL CONTRACTOR AND ARCHITECT PRIOR TO FABRICATION/CONSTRUCTION.



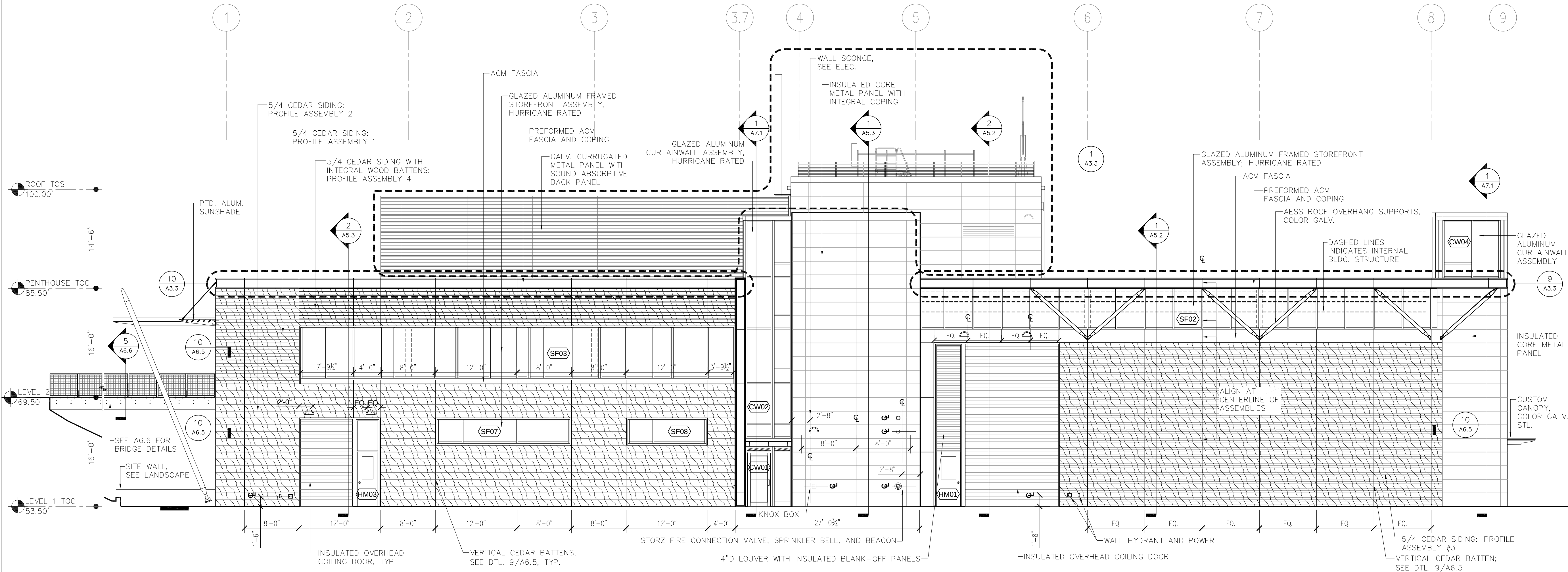
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Drawing By	ESM
Checked By	NC/ML
Filename	31003-A3.1
Date	15 APRIL 2011

Revisions

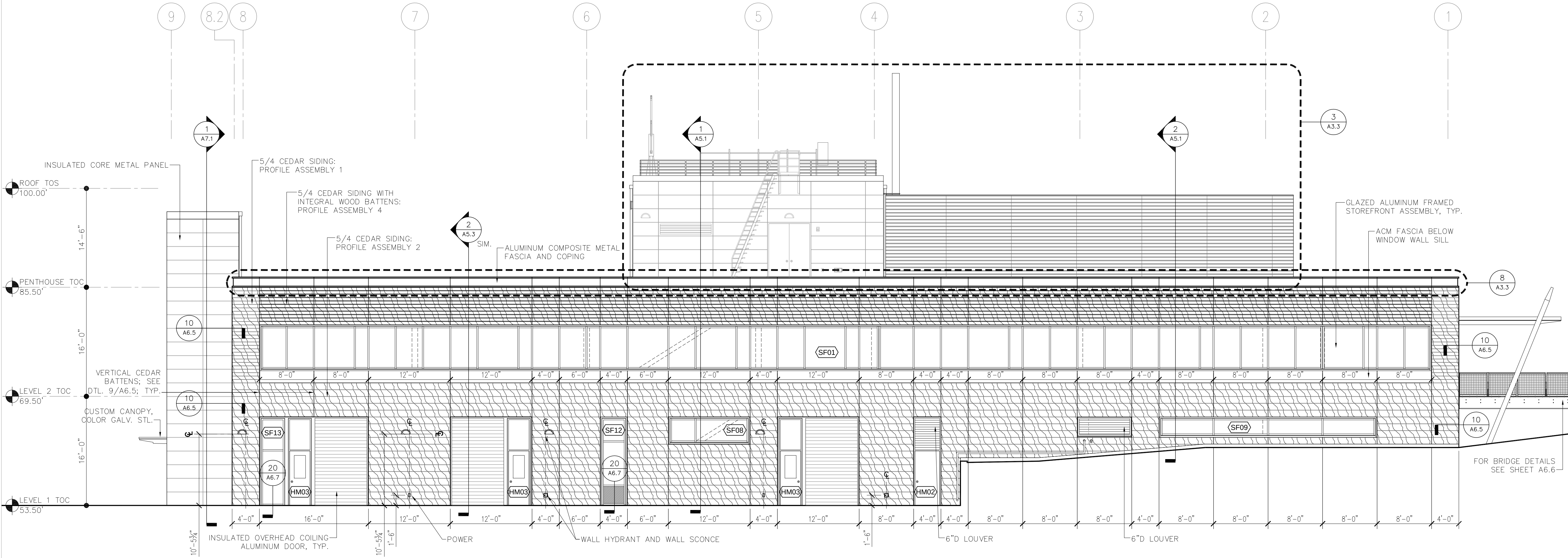
BUILDING ELEVATIONS - EAST AND WEST

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A3.1



2 EAST ELEVATION
1/8" = 1'-0"

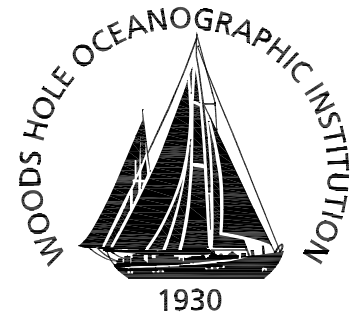


1 WEST ELEVATION
1/8" = 1'-0"

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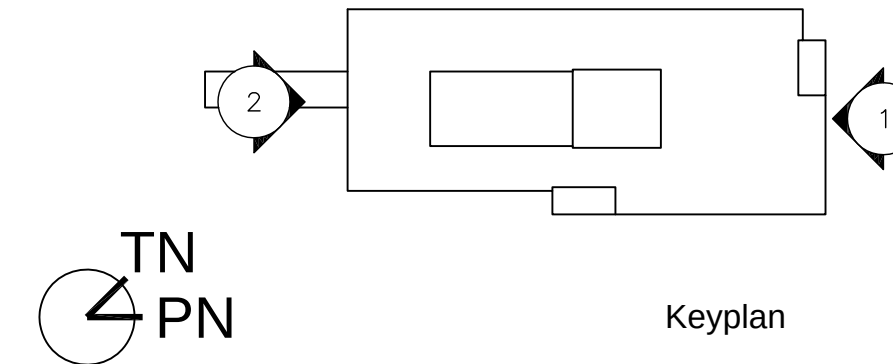
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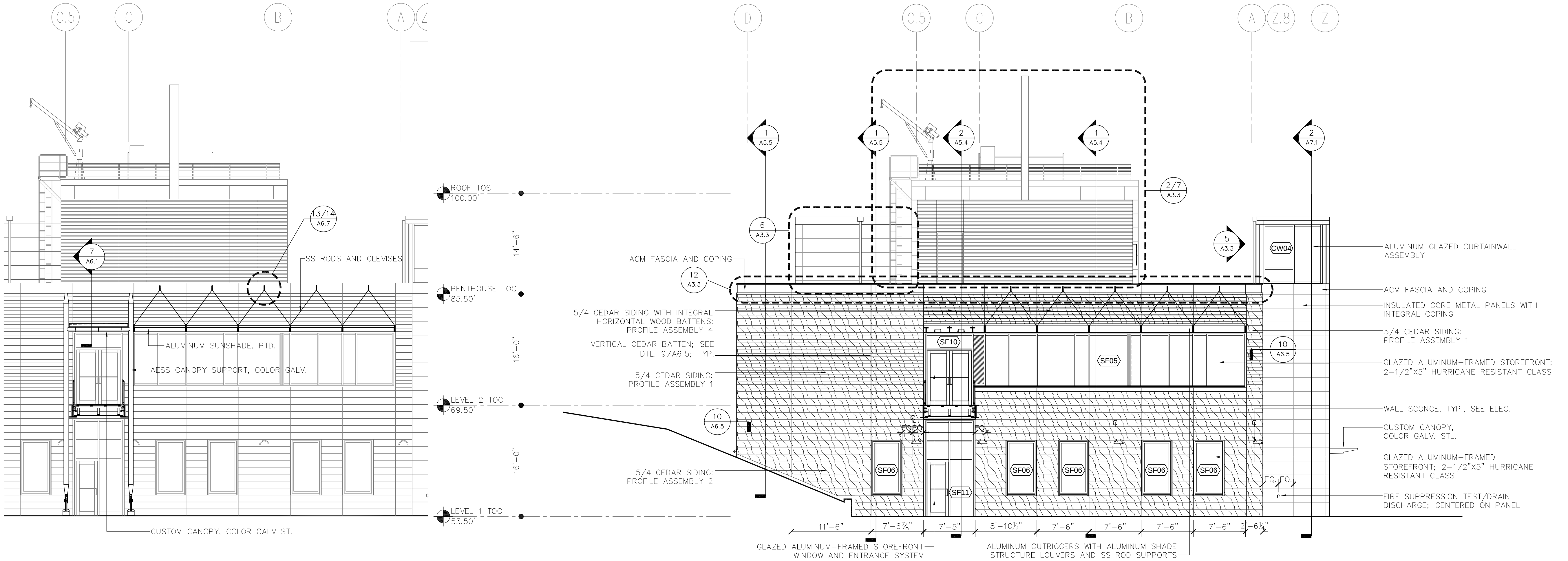
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Drawing By	ESM
Checked By	NC/ML
Filename	31003-A3.2
Date	15 APRIL 2011

Revisions

BUILDING ELEVATIONS - NORTH AND SOUTH

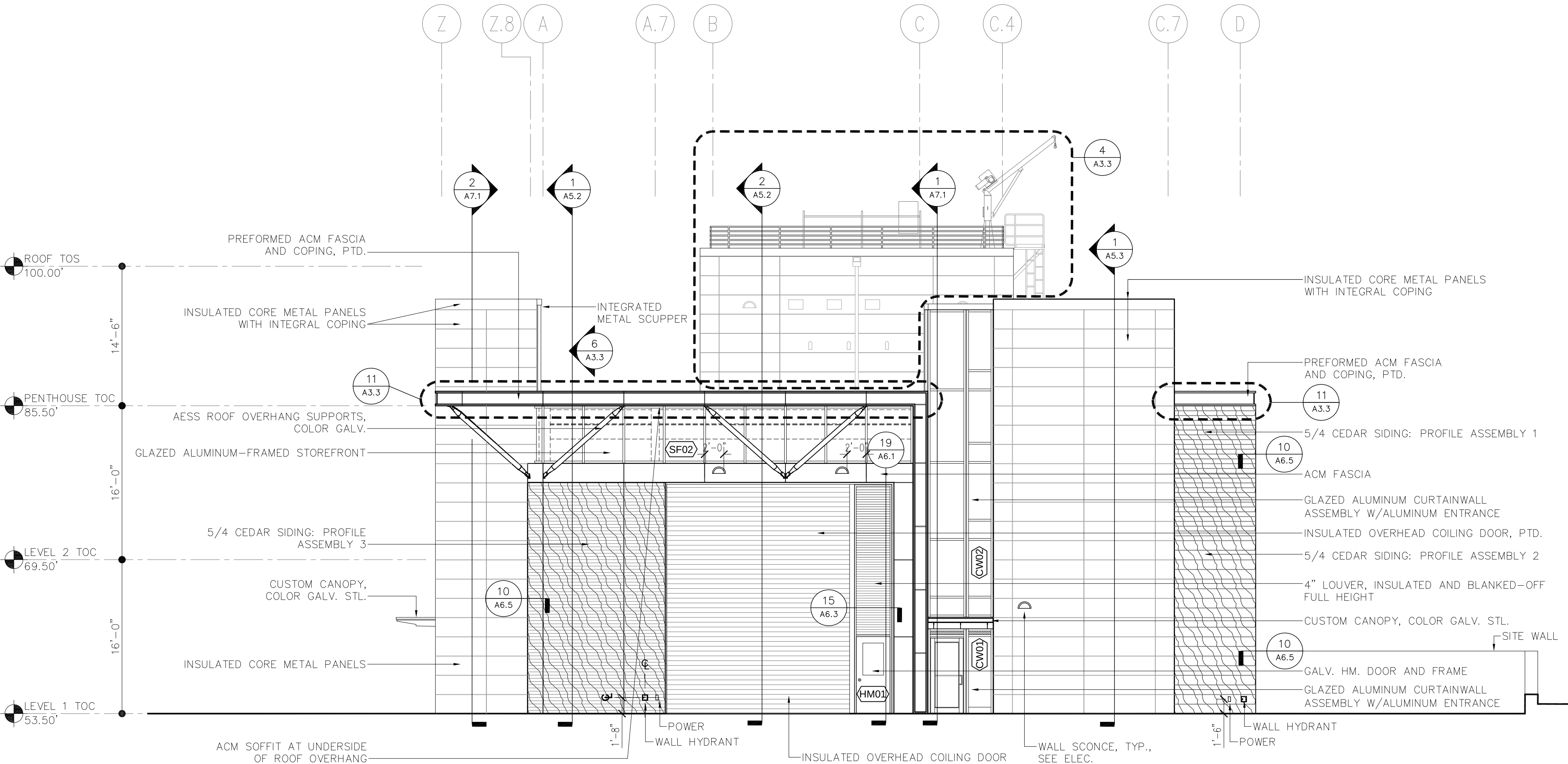
CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A3.2



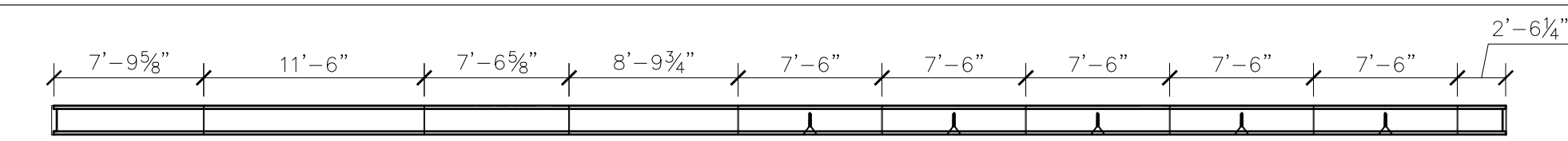
3 SOUTH ELEVATION - CANOPY AND SUNSHADE
1/8" = 1'-0"

2 SOUTH ELEVATION
1/8" = 1'-0"

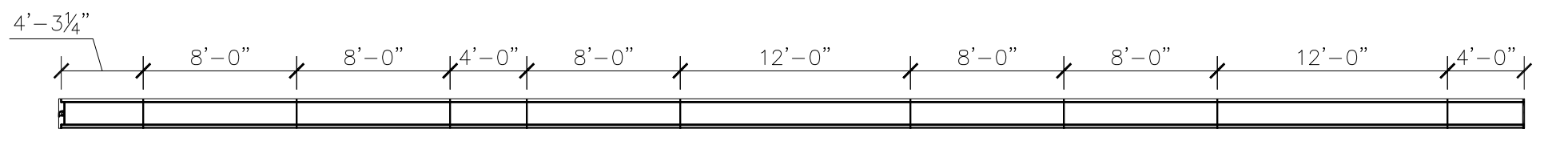


1 NORTH ELEVATION
1/8" = 1'-0"

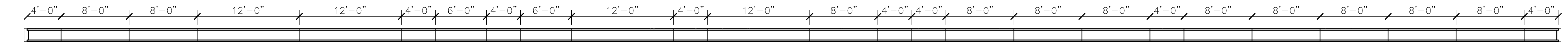
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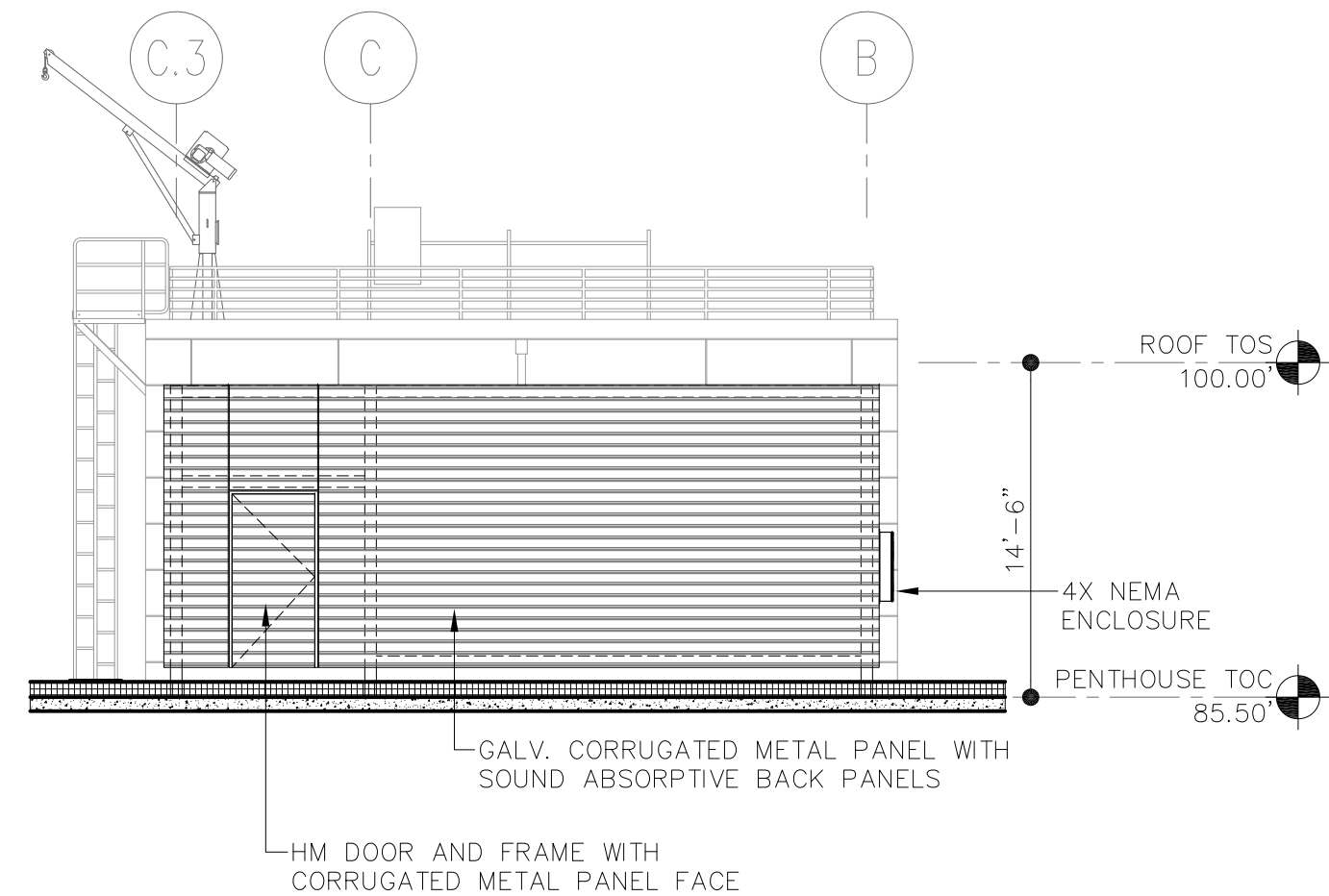
12 SOUTH ELEVATION ACM ROOF FASCIA/COPING
1/8" = 1'-0"



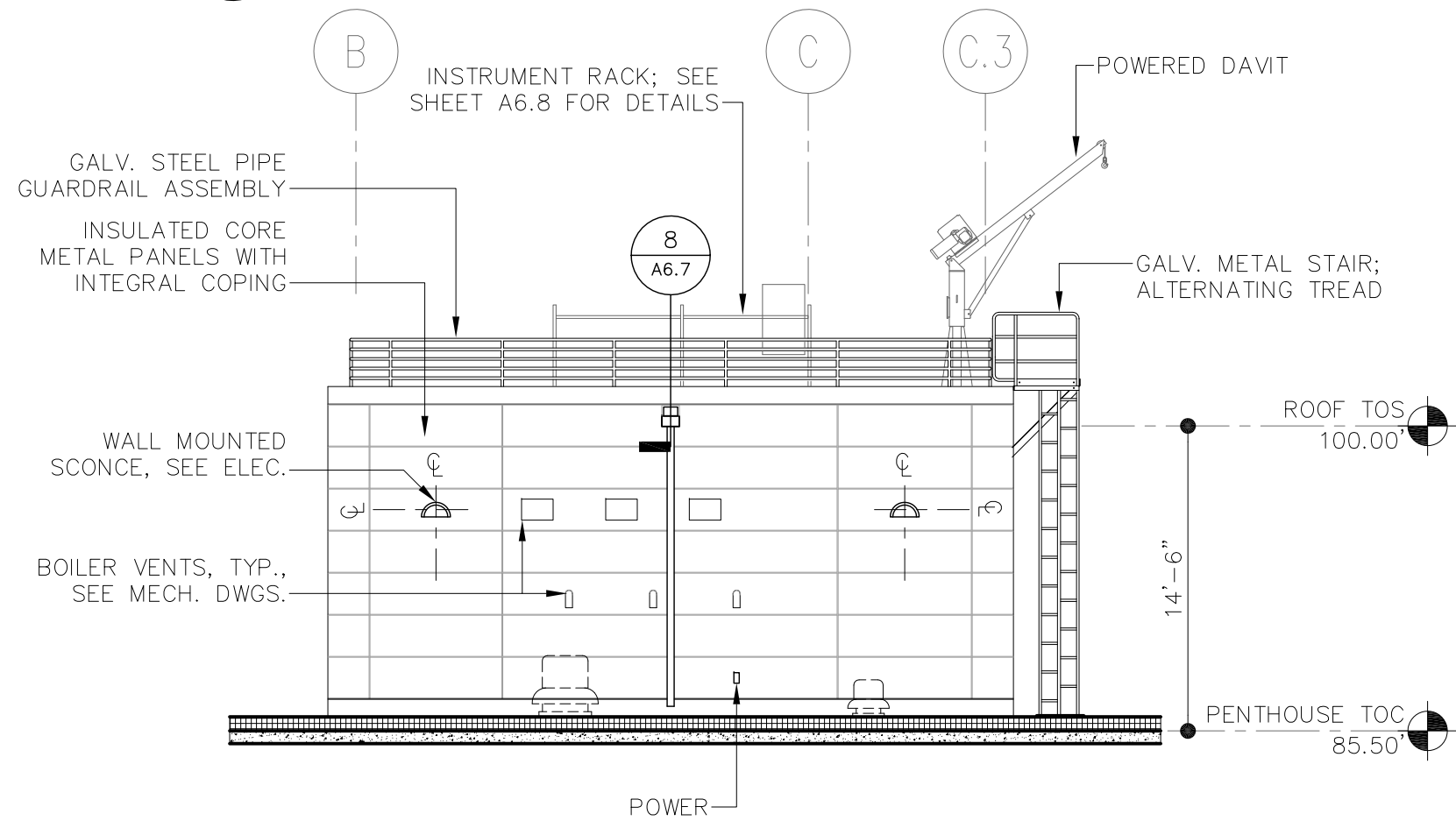
10 EAST ELEVATION ACM ROOF FASCIA/COPING
1/8" = 1'-0"



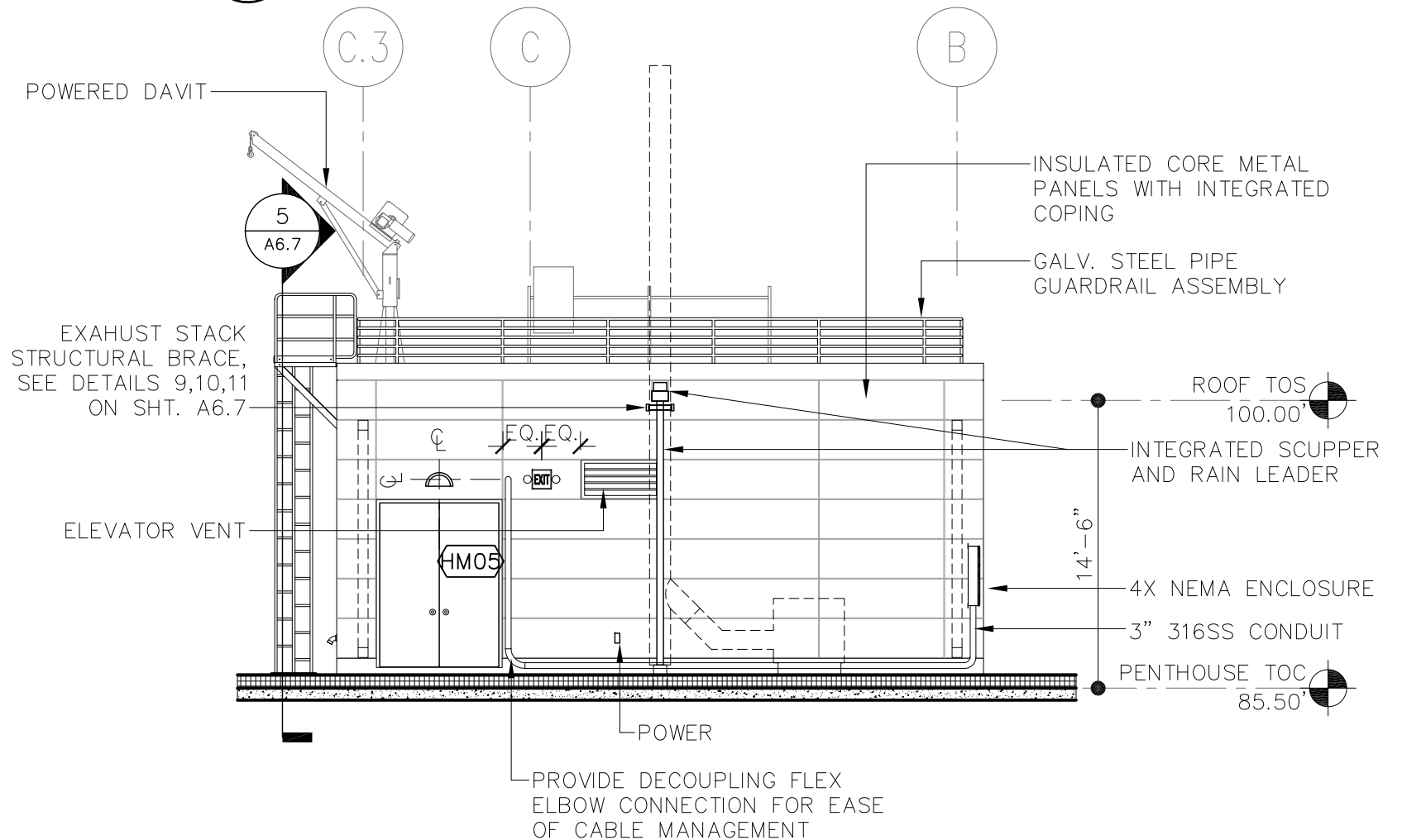
8 WEST ELEVATION ACM ROOF FASCIA/COPING
1/8" = 1'-0"



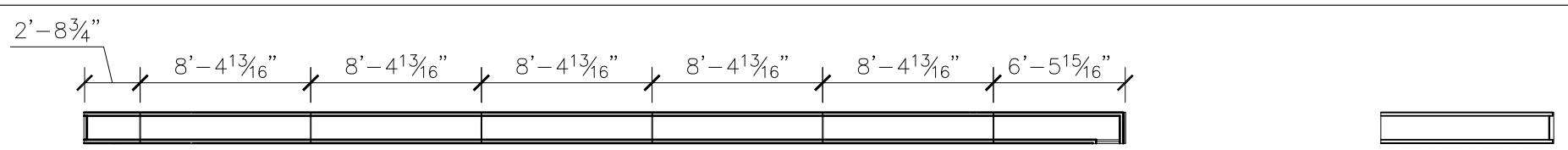
7 NORTH ELEVATION - PENTHOUSE
1/8" = 1'-0"



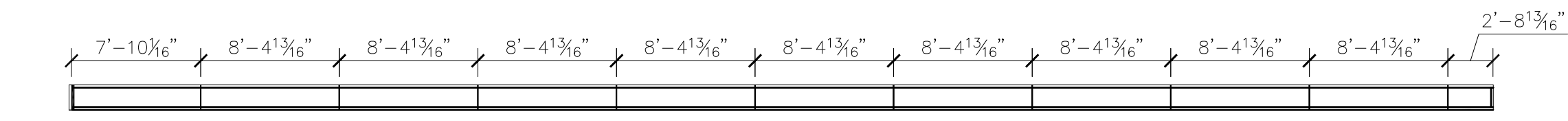
4 NORTH ELEVATION - PENTHOUSE
1/8" = 1'-0"



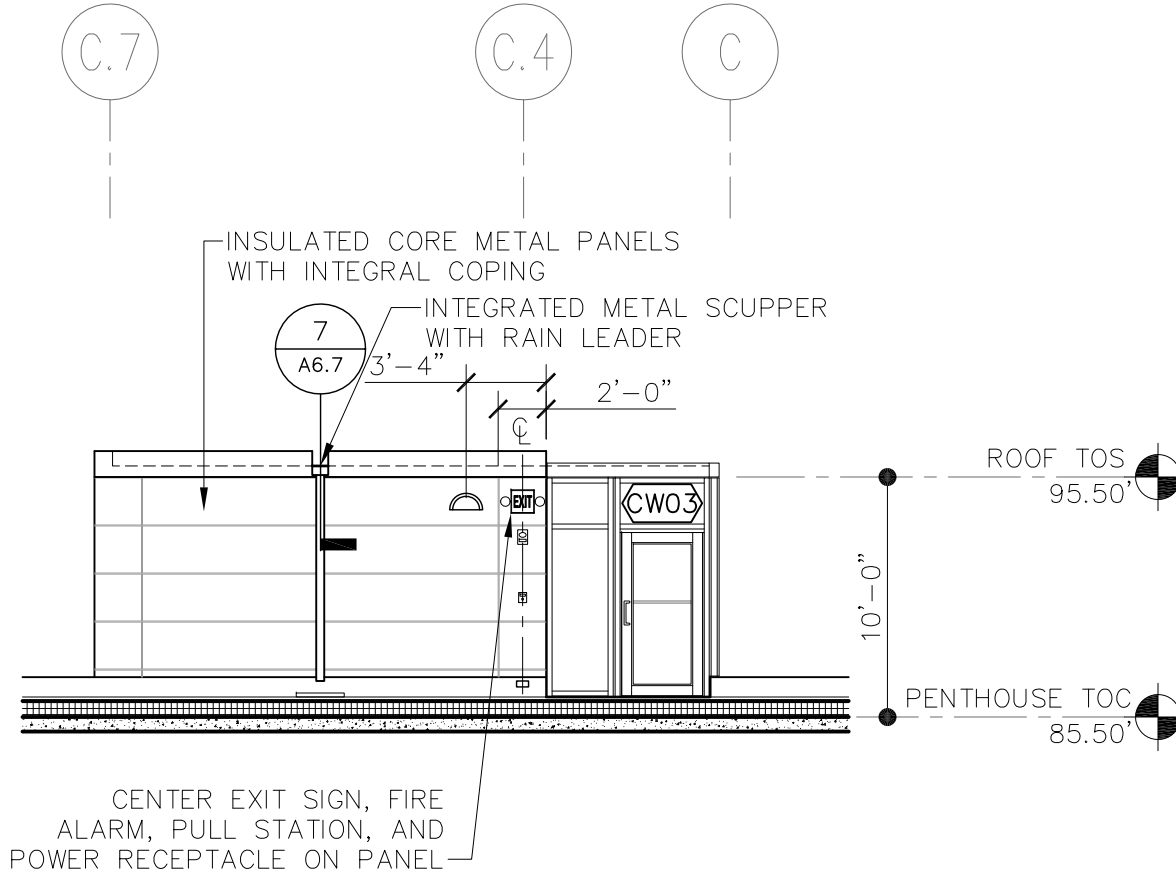
2 SOUTH ELEVATION - PENTHOUSE
1/8" = 1'-0"



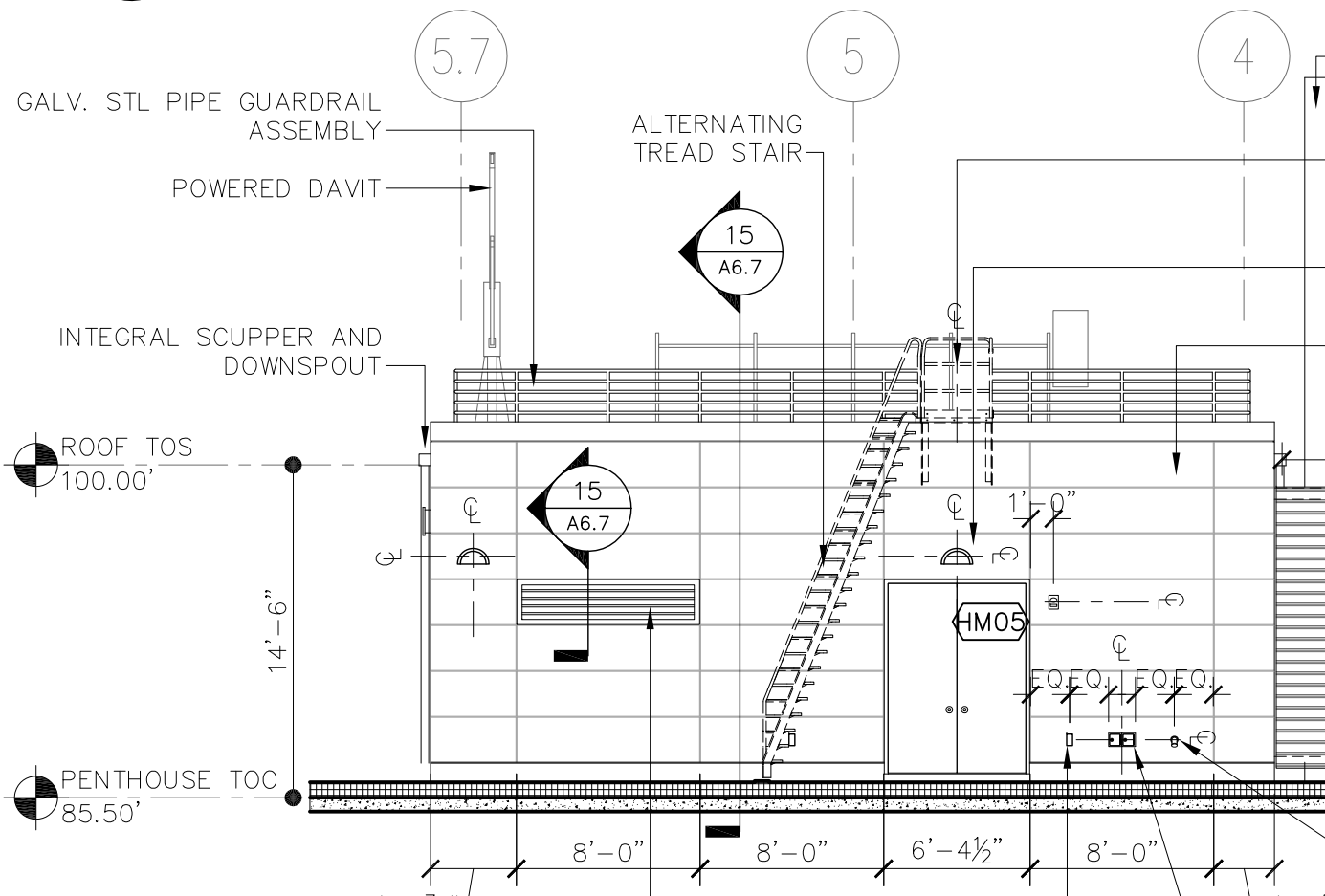
11 NORTH ELEVATION ACM ROOF FASCIA/COPING (AT HIGH BAY AND OPP. STAIR)
1/8" = 1'-0"



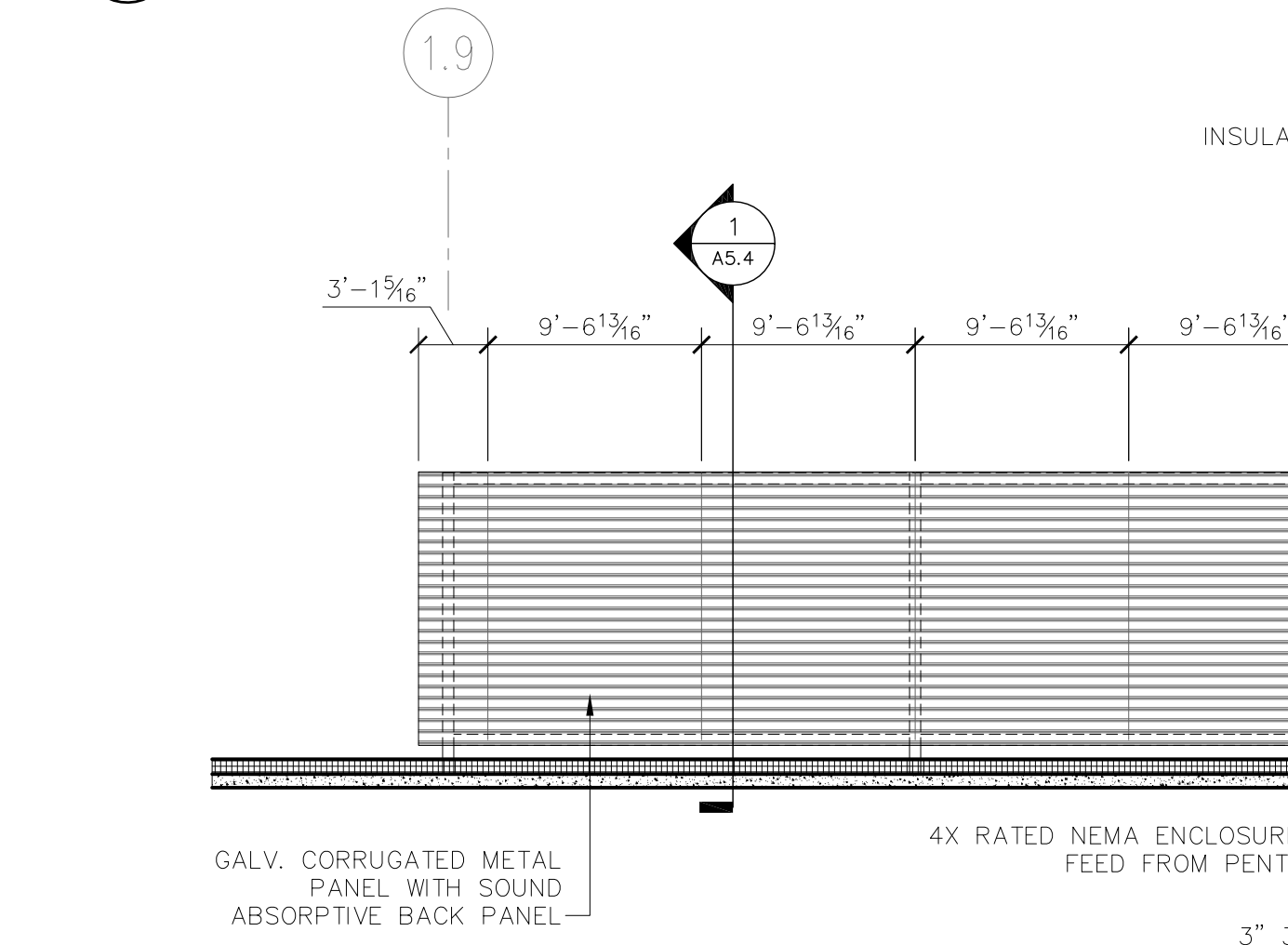
9 EAST ELEVATION ACM ROOF FASCIA/COPING (AT HIGH BAY)
1/8" = 1'-0"



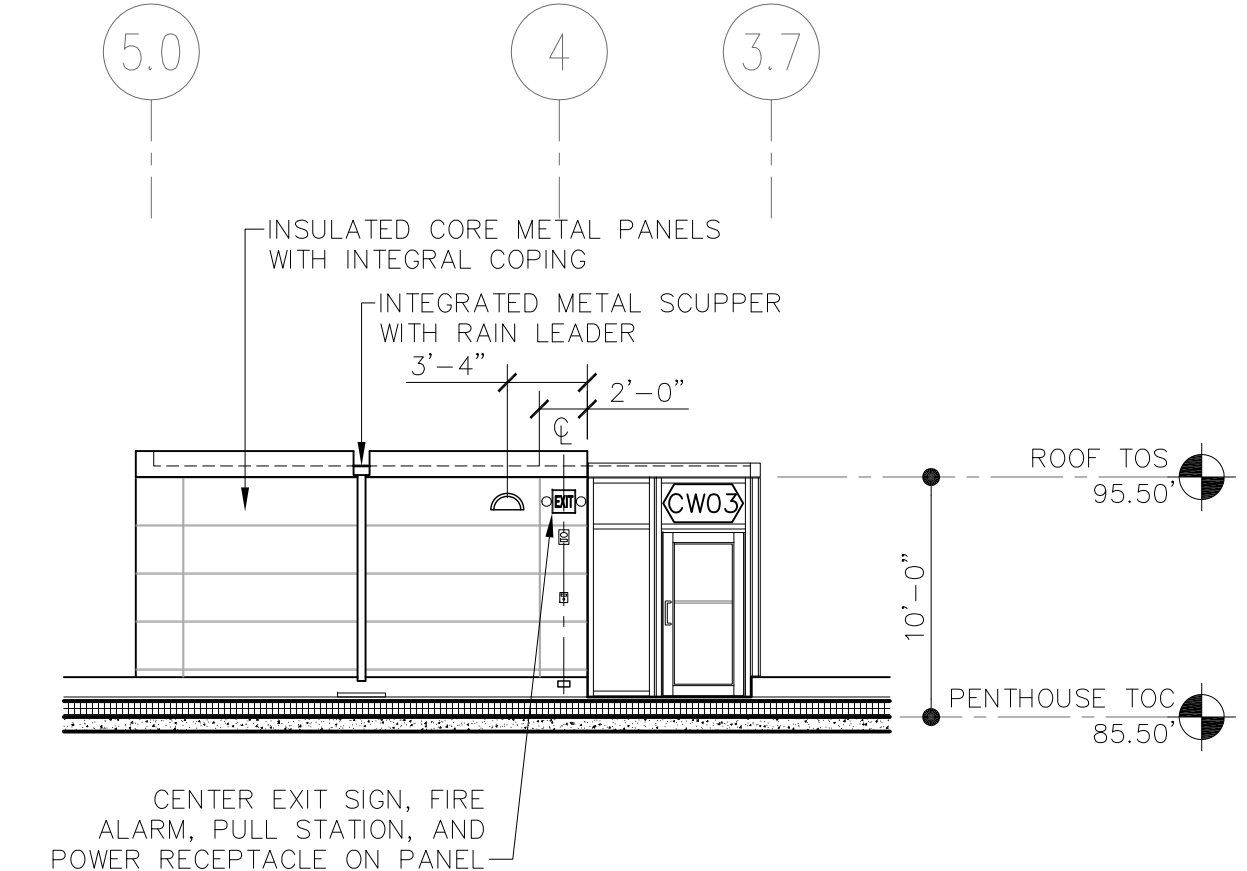
6 SOUTH ELEVATION - STAIR TOWER (ROOF LEVEL)
1/8" = 1'-0"



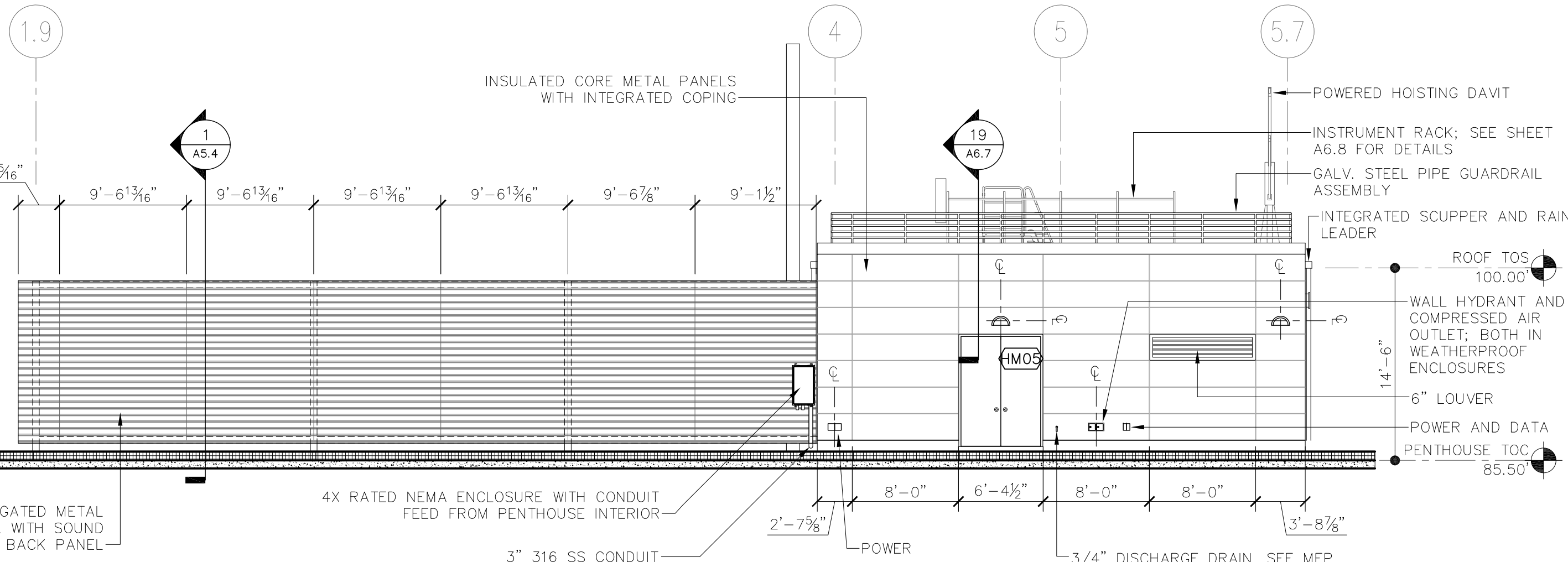
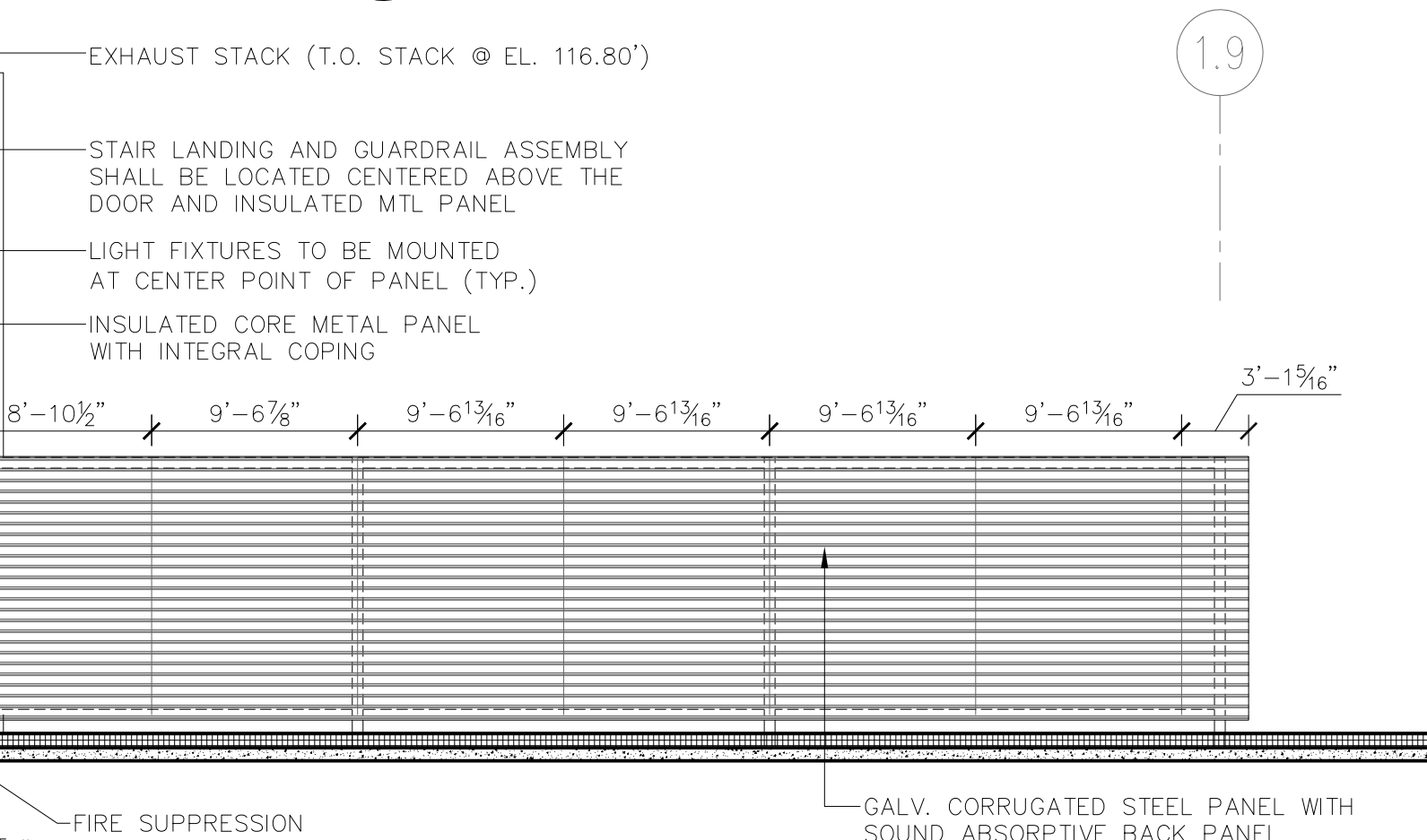
3 WEST ELEVATION - PENTHOUSE AND SCREENWALL
1/8" = 1'-0"



1 EAST ELEVATION - PENTHOUSE AND SCREENWALL
1/8" = 1'-0"



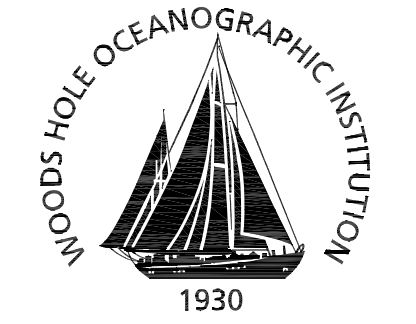
5 WEST ELEVATION - STAIR TOWER (ROOF LEVEL)
1/8" = 1'-0"



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Falmouth, MA 02540
(508) 548-3564

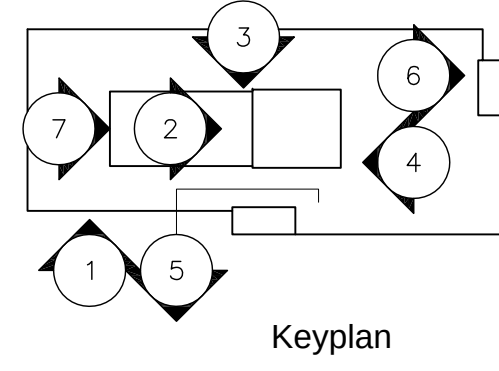
LeMessurier Consultants Structural Engineer 675 Massachusetts Avenue
Cambridge, MA 02139
(617) 868-1200

BR+A Consulting Engineers Mechanical/Electrical/Plumbing Engineer The Arsenal on the Charles
311 Arsenal Street
Watertown, MA 02472
(617) 254-0016

Columbia Construction Co. Construction Manager 100 Riverpark Drive
P.O. Box 220
North Reading, MA 01864
(978) 664-9500

Notes:

- ALL GALVANIZED METAL SHALL BE NATURAL FINISH UNLESS STATED OTHERWISE.
- ALIGNMENT OF JOINTS, PANELS, SEAMS, ETC. SHALL BE FABRICATED AND ASSEMBLED PER DESIGN INTENT SHOWN ON BOTH ELEVATIONS AND/OR DETAILS. ANY CONFLICTS SHALL BE DOCUMENTED AND BROUGHT TO THE ATTENTION OF GENERAL CONTRACTOR AND ARCHITECT PRIOR TO FABRICATION/CONSTRUCTION.



Job Number 31003
Drawing By -
Checked By -
Filename 31003-A3.3
Date 15 APRIL 2011

Revisions

MISCELLANEOUS ELEVATIONS

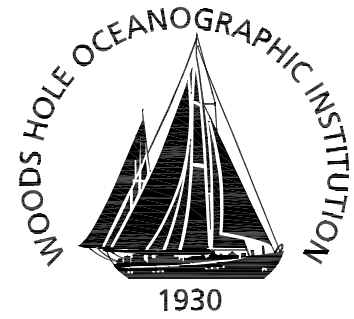
CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A3.3

Woods Hole Oceanographic Institution

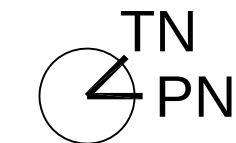
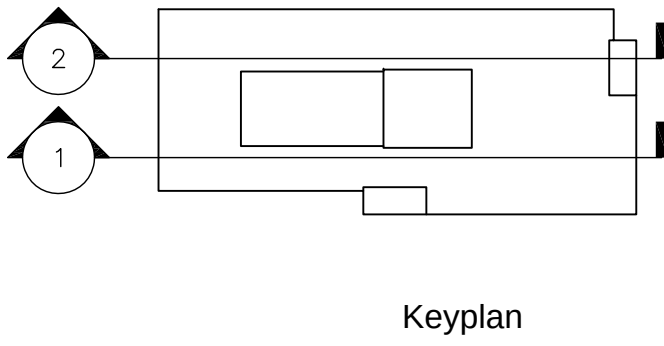
Laboratory of Ocean Sensors and Observing Systems (LOSOS)

Quissett Campus - Woods Hole, MA 02543



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Stephen Stimson Associates Landscape Architect	15 Depot Avenue Falmouth, MA 02540 (508) 548-8119
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Columbia Construction Co. Construction Manager	100 Riverpark Drive P.O. Box 220 North Reading, MA 01864 (978) 664-9500

Notes:



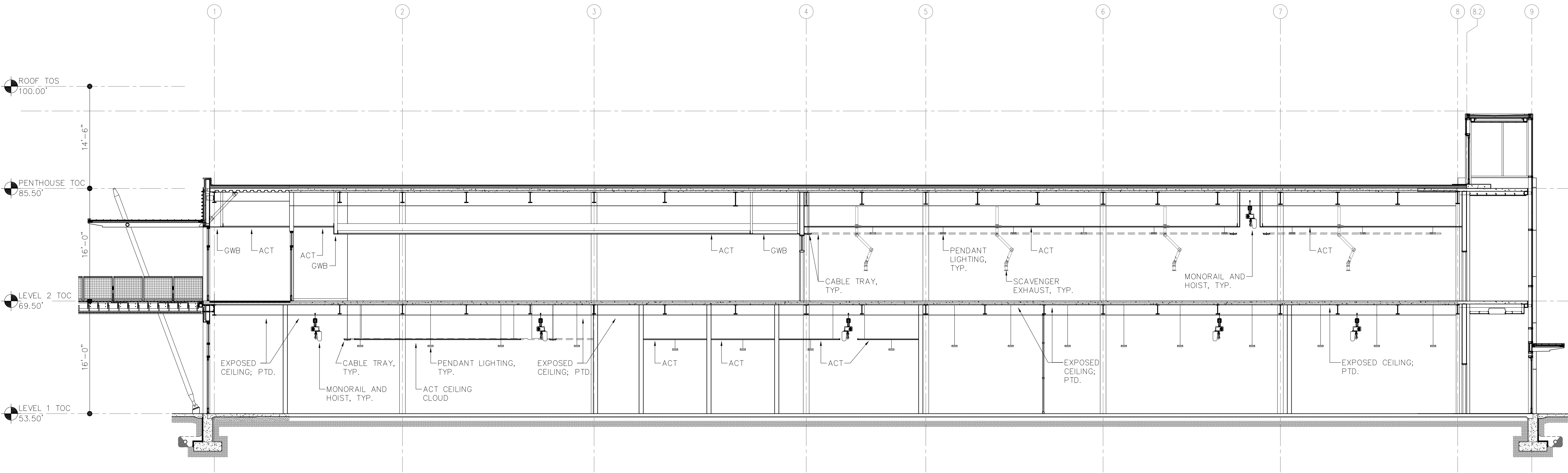
Job Number	31003
Drawing By	ESM
Checked By	NC/ML
Filename	31003-A4.1
Date	15 APRIL 2011

Revisions

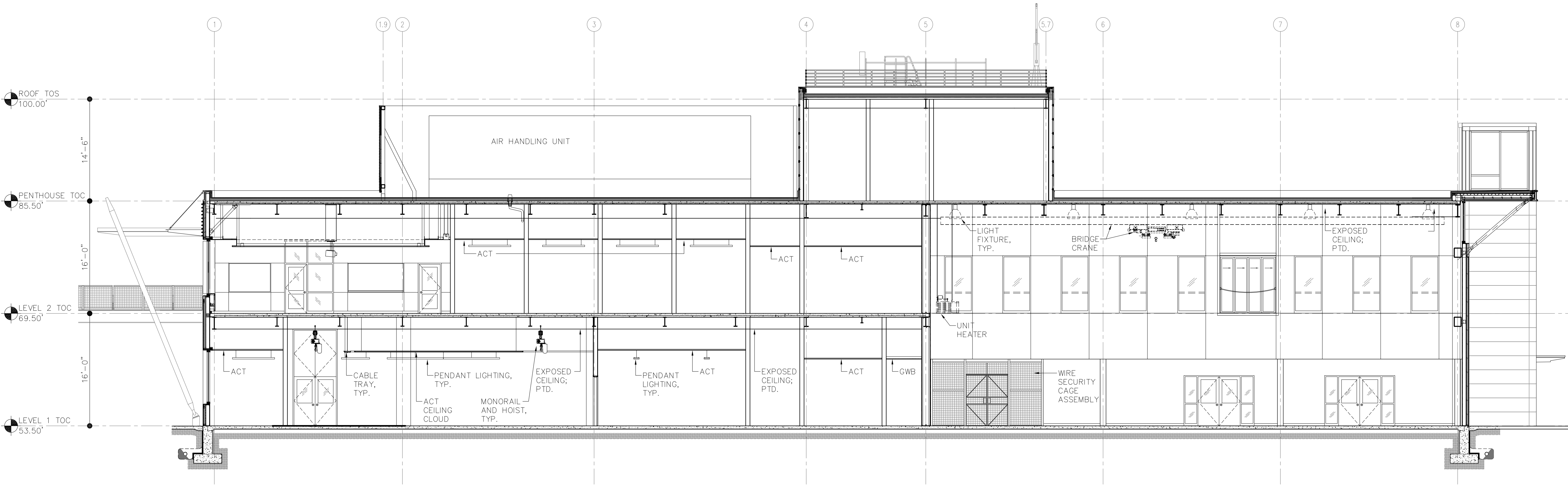
LONGITUDINAL BUILDING SECTIONS

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A4.1



2 LONGITUDINAL BUILDING SECTION
1/8" = 1'-0"

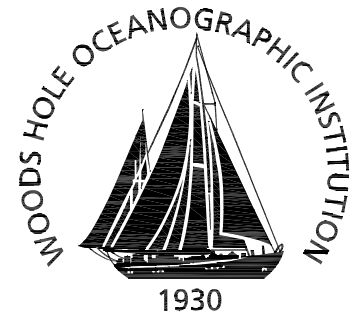


1 LONGITUDINAL BUILDING SECTION THROUGH HIGH BAY
1/8" = 1'-0"

Woods Hole Oceanographic Institution

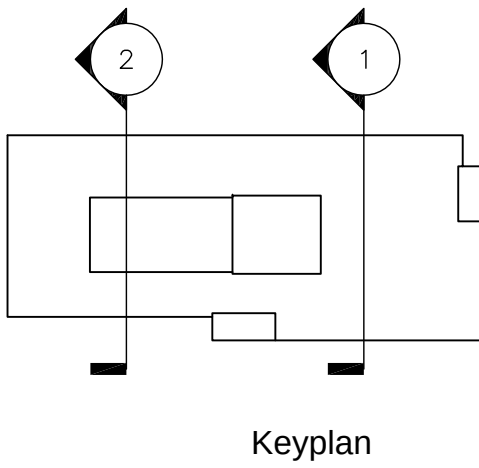
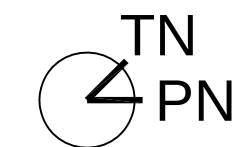
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Notes:



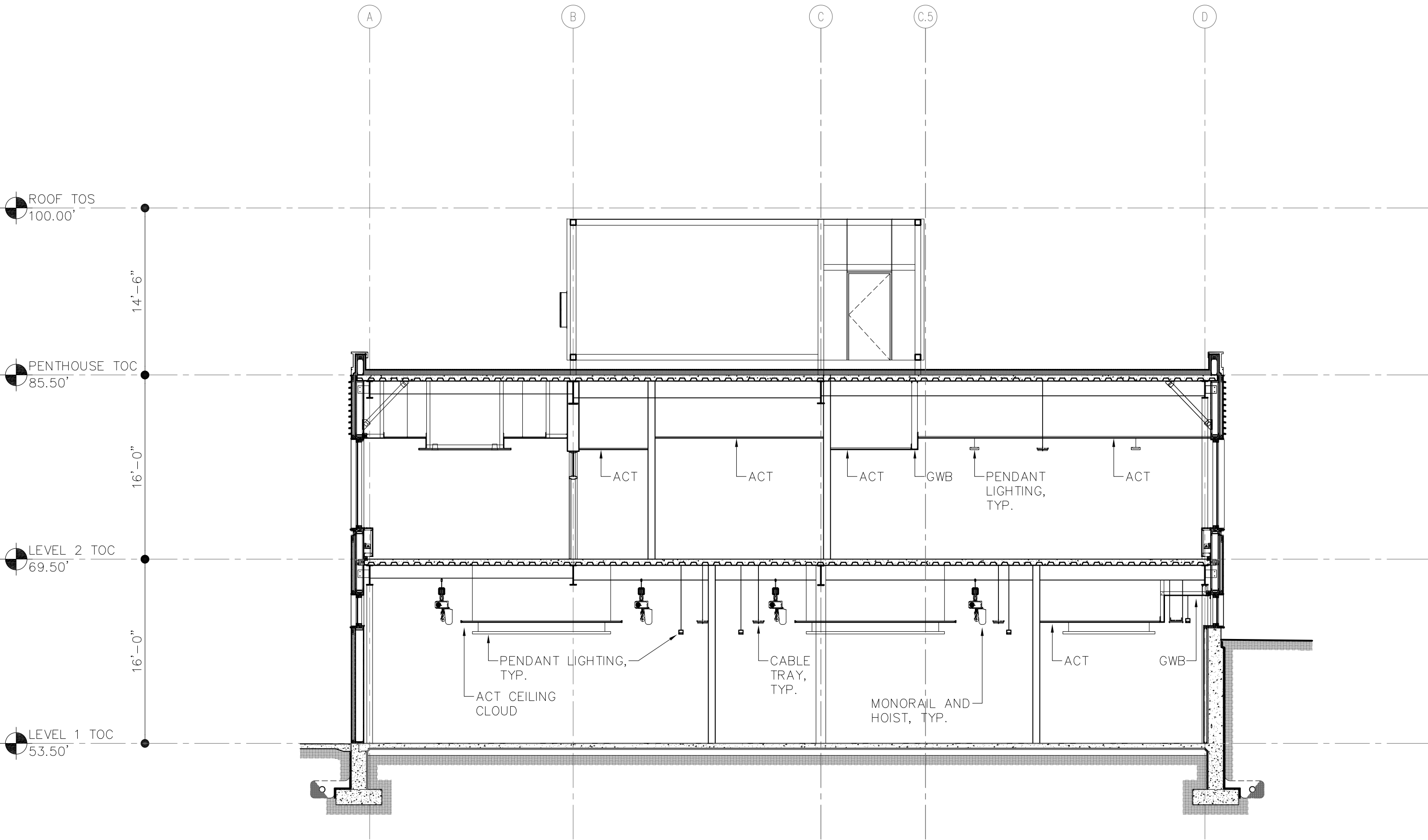
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Checked By	NC/ML
Filename	31003-A4.2
Date	15 APRIL 2011

Revisions

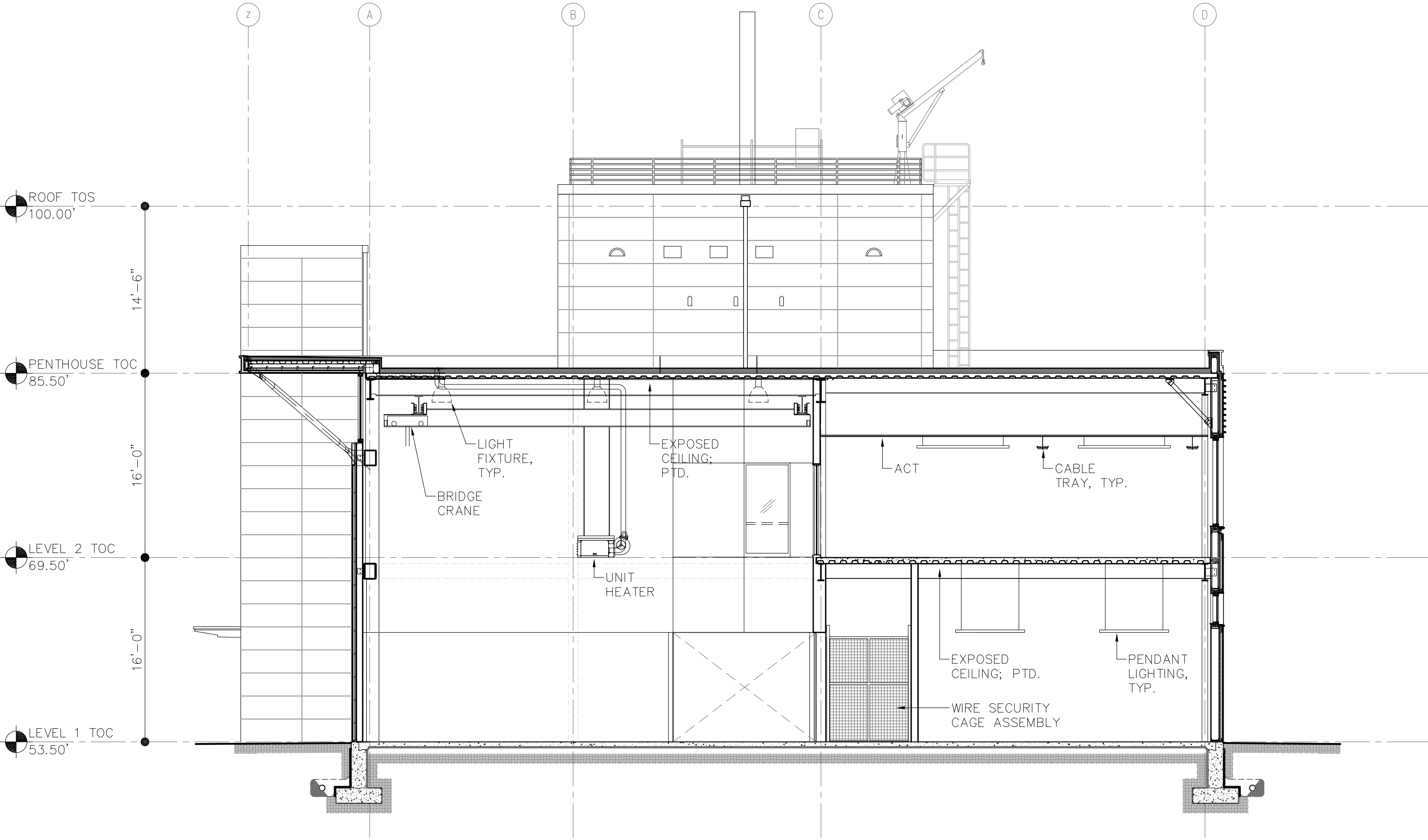
TRANSVERSE
BUILDING SECTIONS

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A4.2



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

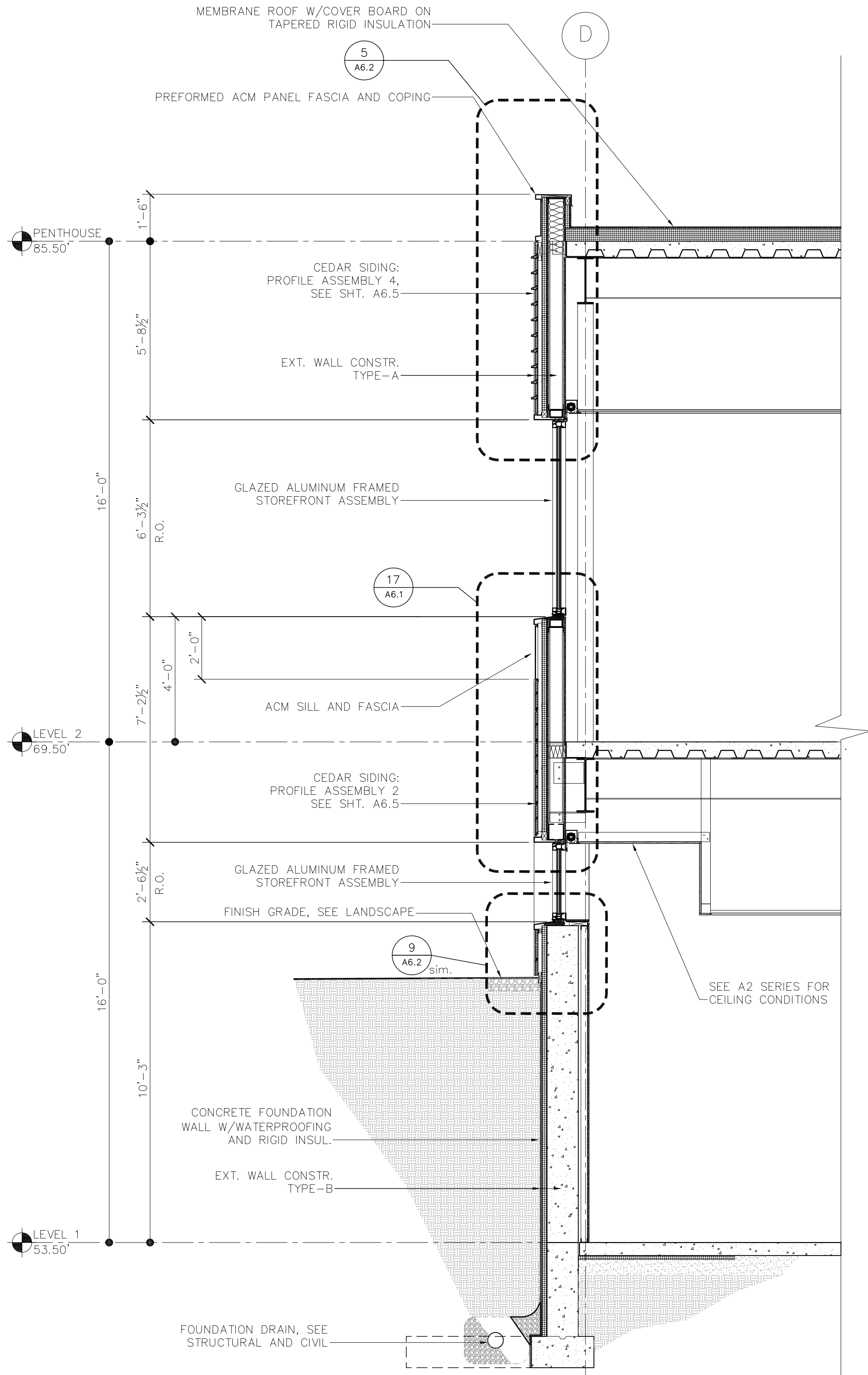


1 BUILDING SECTION
1/8" = 1'-0"

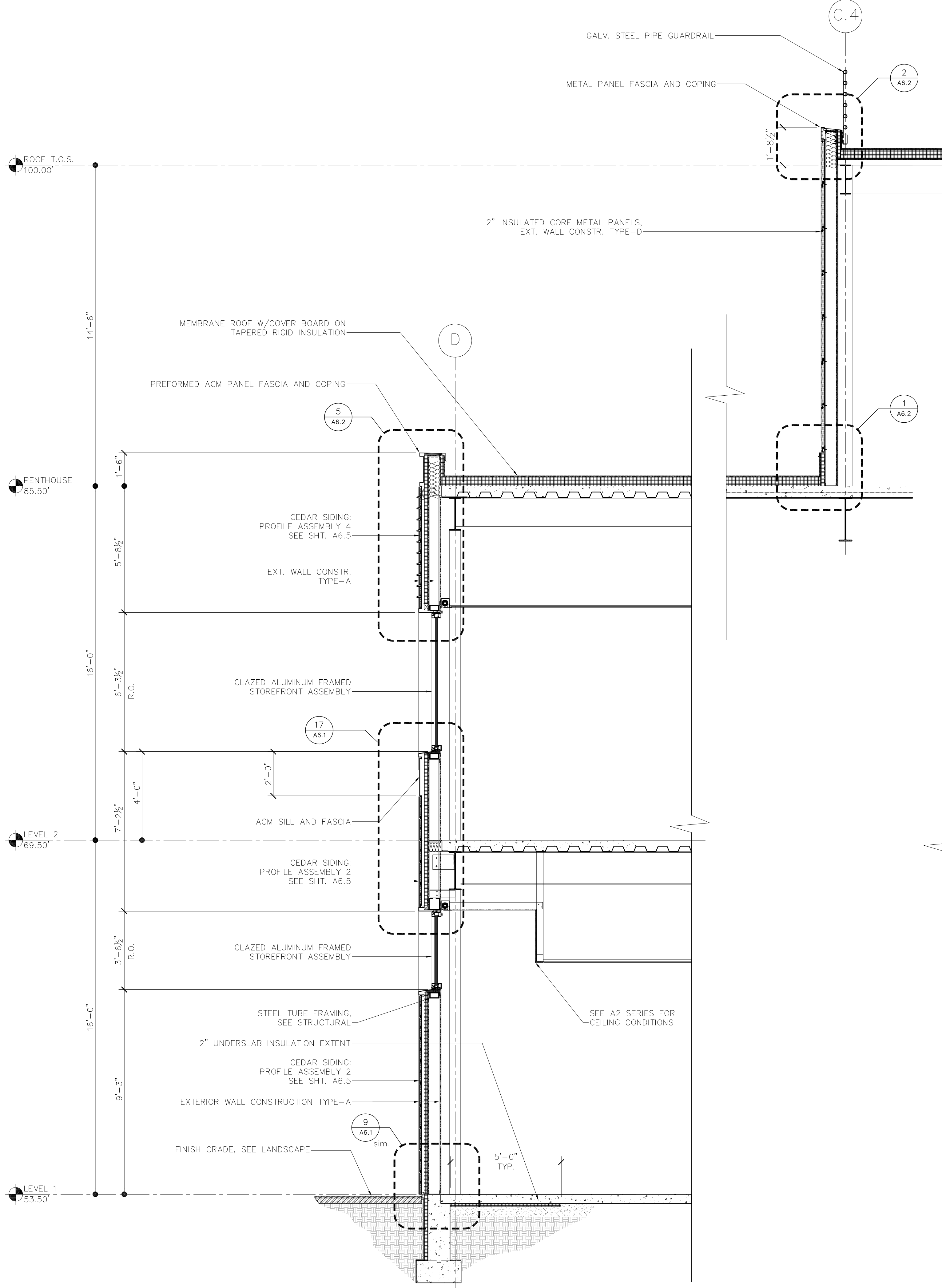
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EXTERIOR WALL ASSEMBLY TYPES:

- A. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
- B. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON CONC. FOUNDATION WALL W/W.P. MEMBRANE.
- C. 2" INSULATED METAL PANELS ON 5/8" TYPE-X GWB SHEATHING ON 6" METAL FRAMING. (1-HR ASSEMBLY)
- D. 2" INSULATED METAL PANELS ON 6" METAL FRAMING.



2 WALL SECTION
3/8" = 1'-0"

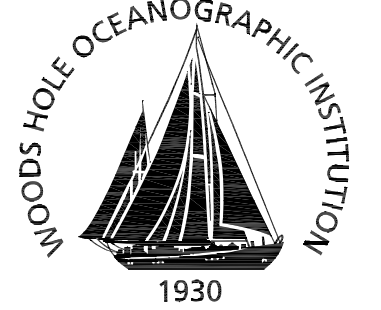


1 WALL SECTION
3/8" = 1'-0"

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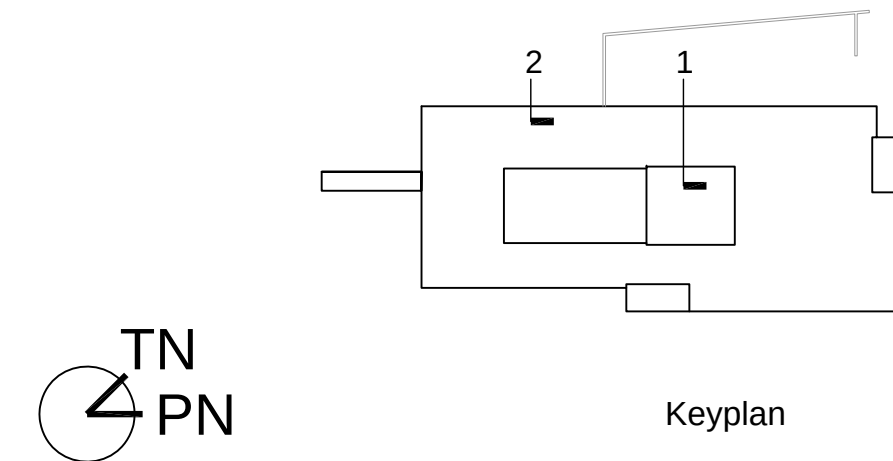
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Notes:

FOR WOOD PROFILE ASSEMBLIES, SEE SHEET A6.5



Job Number 31003
Drawing By TAK
Checked By EM
Filename 31003-A5.1
Date 15 APRIL 2011

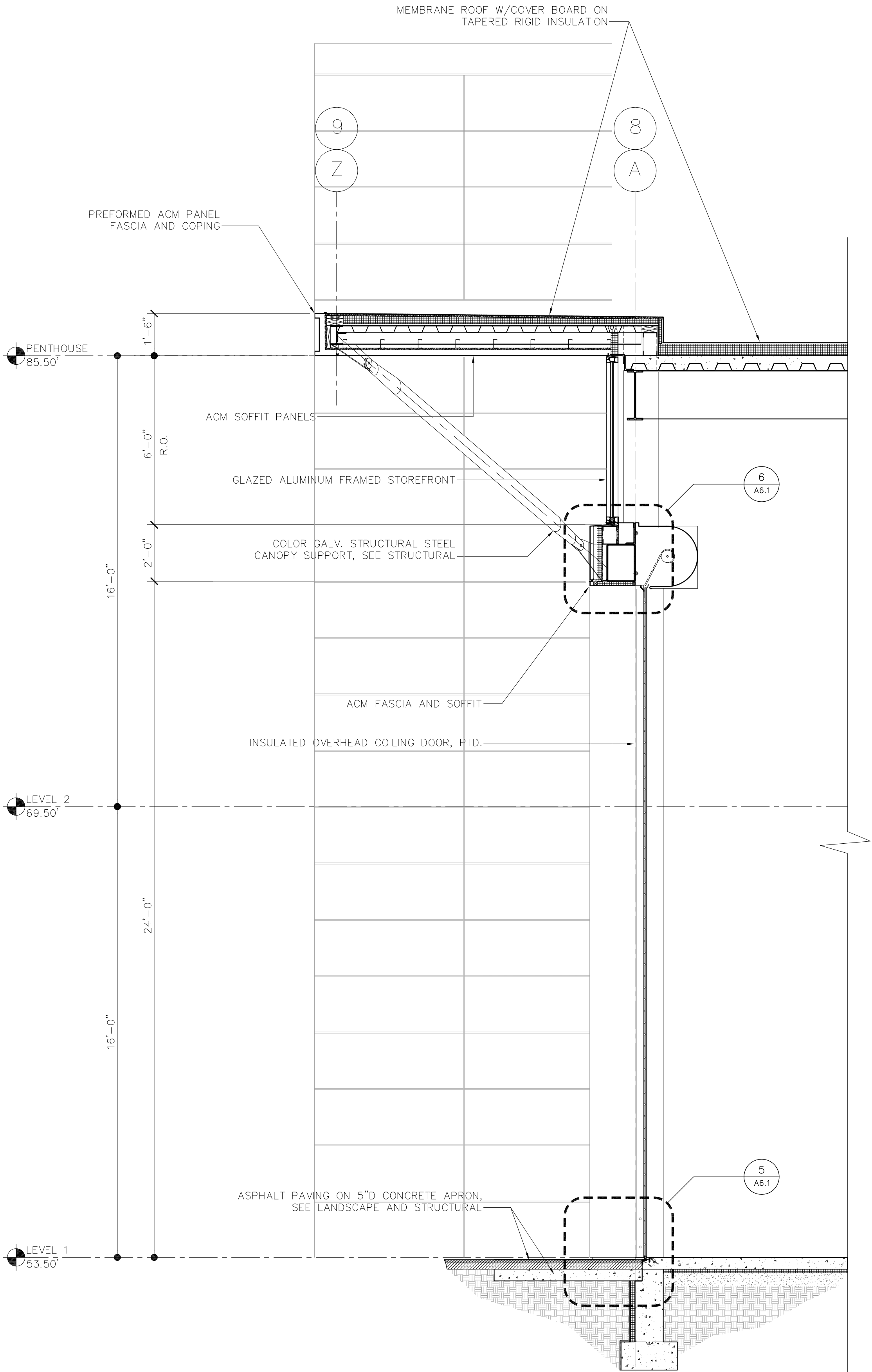
Revisions

WALL SECTIONS

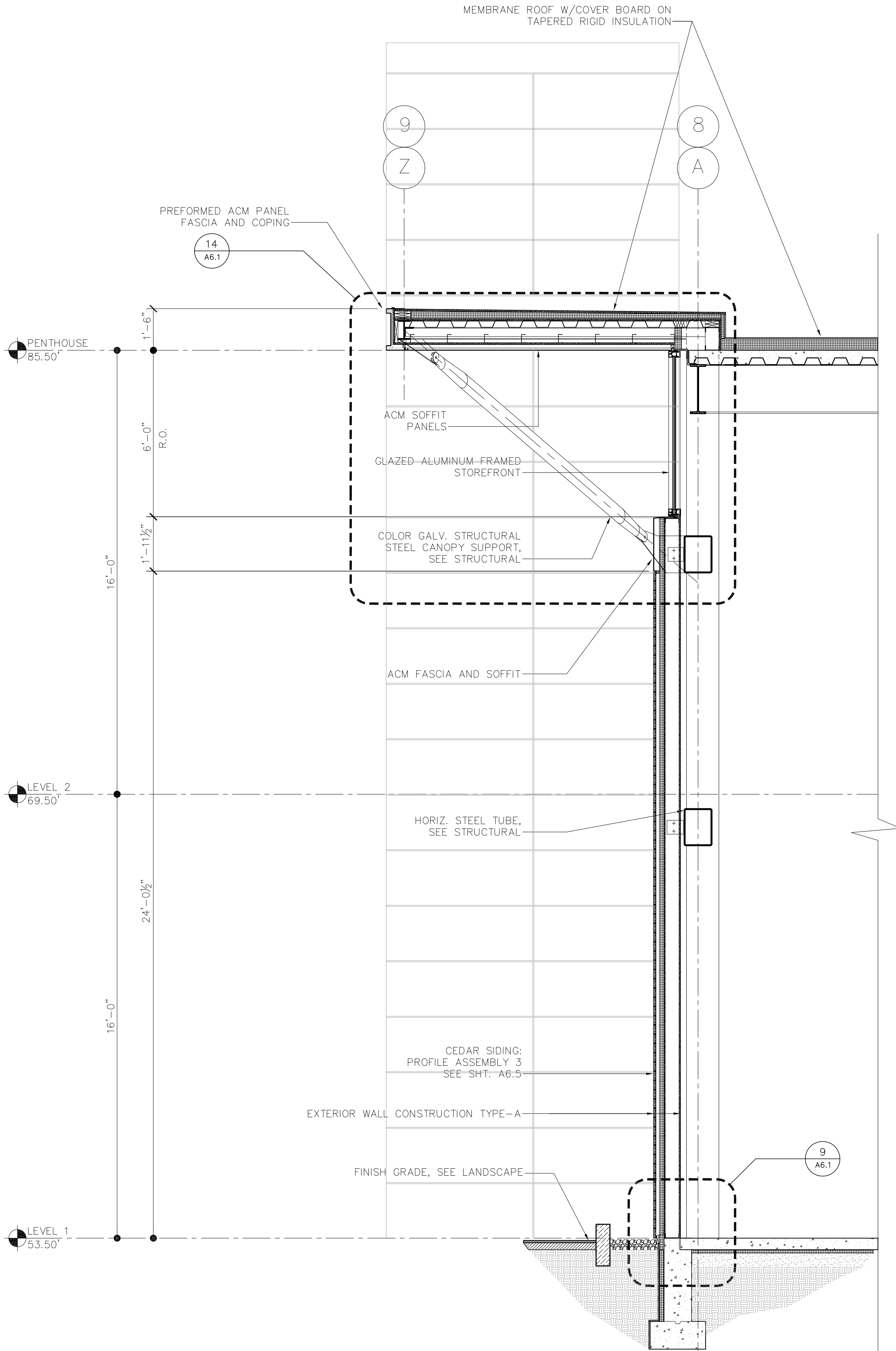
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- EXTERIOR WALL ASSEMBLY TYPES:
- A. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
 - B. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON CONC. FOUNDATION WALL W/W.P. MEMBRANE.
 - C. 2" INSULATED METAL PANELS ON 5/8" TYPE-X GWB SHEATHING ON 6" METAL FRAMING. (1-HR ASSEMBLY)
 - D. 2" INSULATED METAL PANELS ON 6" METAL FRAMING.



2 WALL SECTION
3/8" = 1'-0"

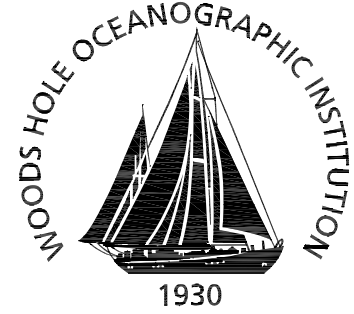


1 WALL SECTION
3/8" = 1'-0"

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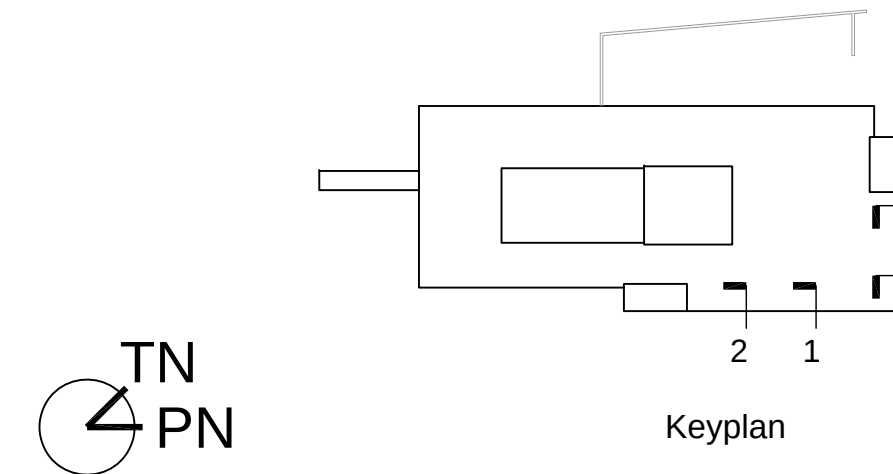
LeMessurier Consultants 675 Massachusetts Avenue
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Notes:

FOR WOOD PROFILE ASSEMBLIES, SEE SHEET A6.5



Job Number 31003
Drawing By TAK
Checked By EM
Filename 31003-A5.2
Date 15 APRIL 2011

Revisions

WALL SECTIONS

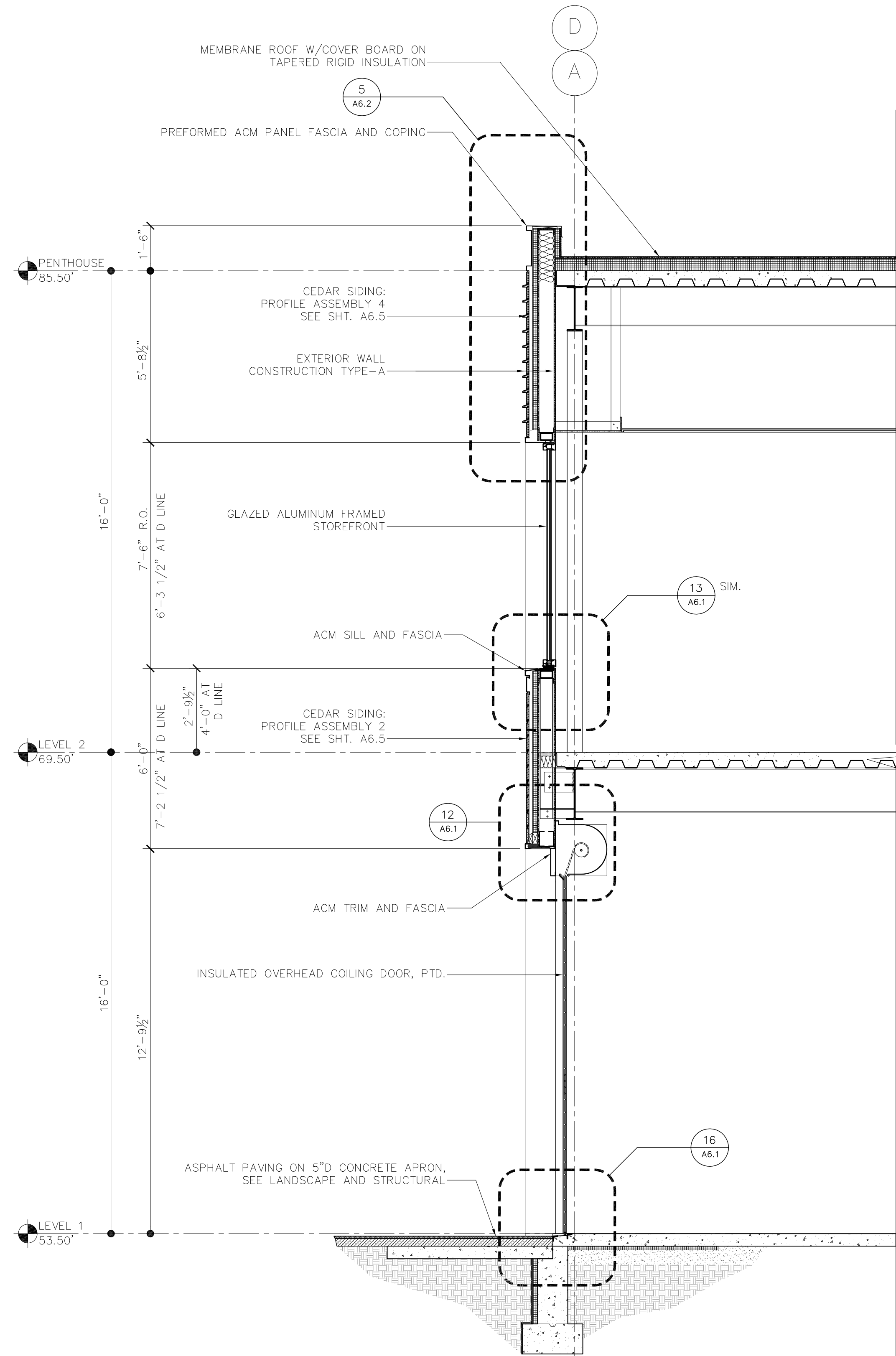
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A5.2

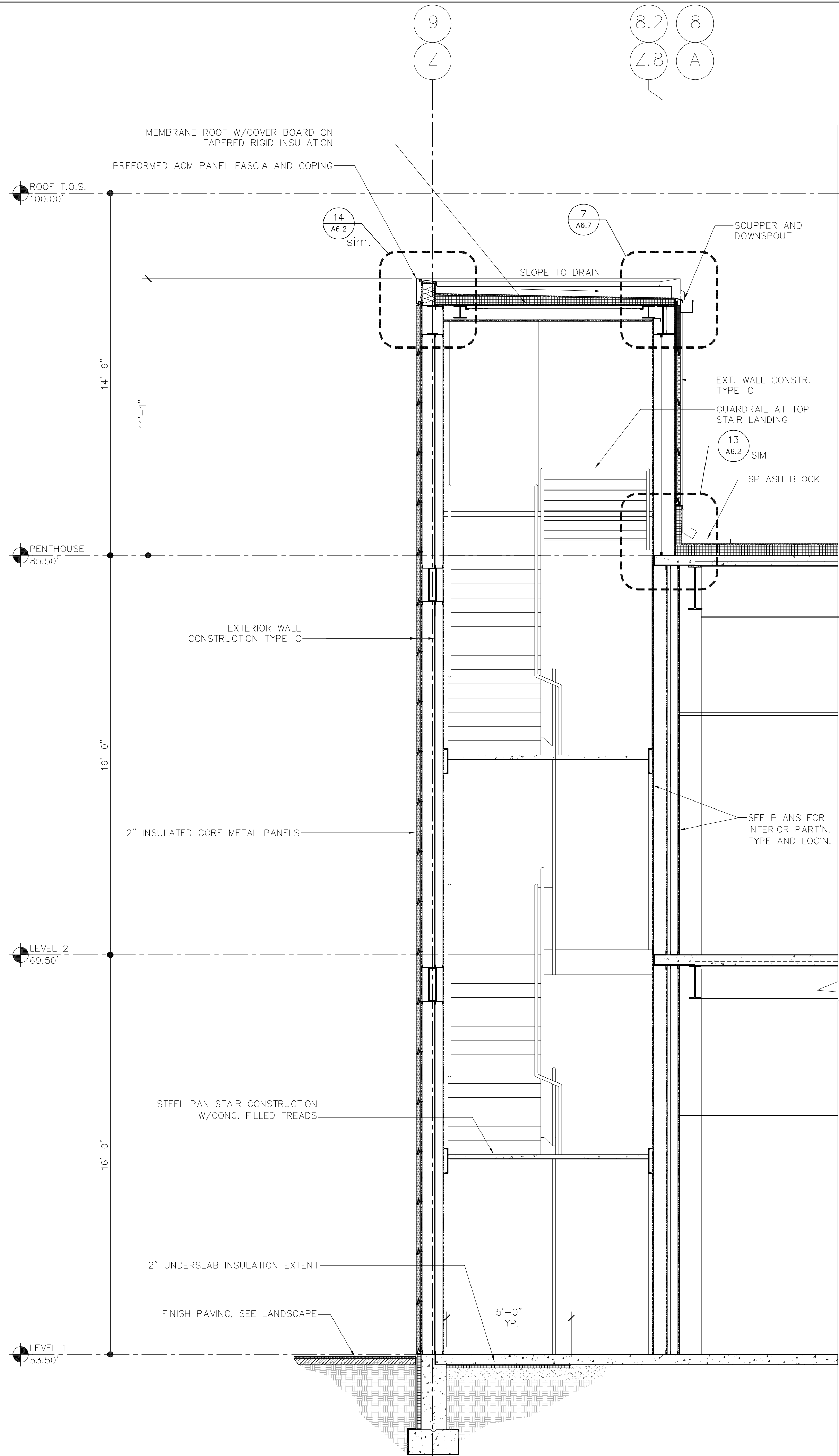
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EXTERIOR WALL ASSEMBLY TYPES:

- A. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
- B. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON CONC. FOUNDATION WALL W/W.P. MEMBRANE.
- C. 2" INSULATED METAL PANELS ON 5/8" TYPE-X GWB SHEATHING ON 6" METAL FRAMING. (1-HR ASSEMBLY)
- D. 2" INSULATED METAL PANELS ON 6" METAL FRAMING.



2 WALL SECTION
3/8" = 1'-0"

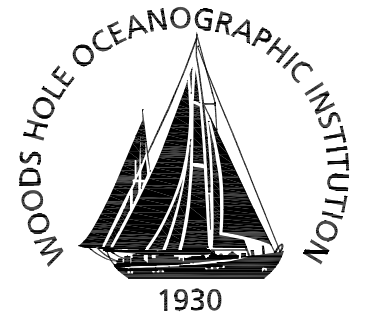


1 WALL SECTION AT STAIR TOWERS
3/8" = 1'-0"

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(508) 548-8119

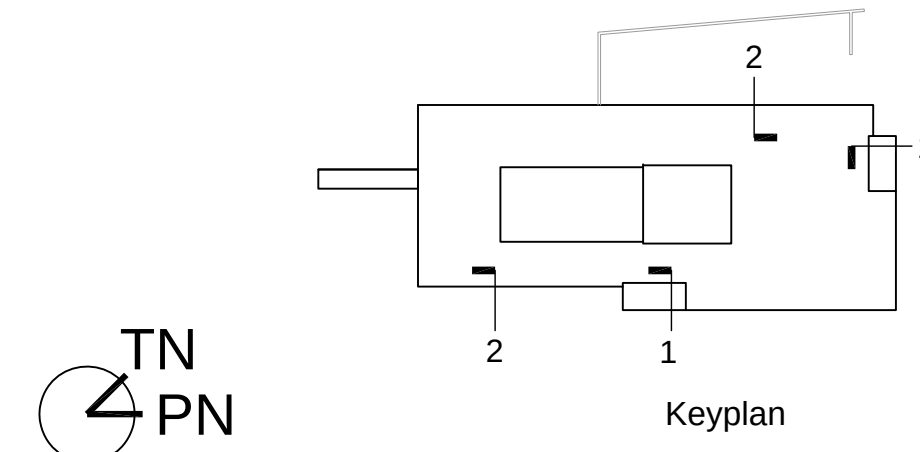
Holmes and McGrath, Inc. Civil Engineer 362 Gifford Street
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Notes:
FOR WOOD PROFILE ASSEMBLIES, SEE SHEET A6.5



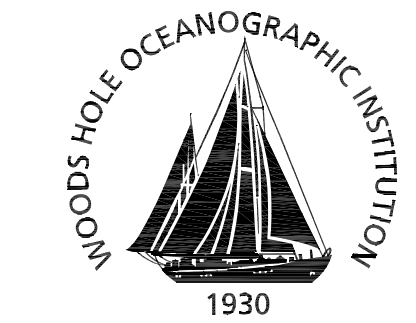
Job Number 31003
Drawing By TAK
Checked By EM
Filename 31003-A5.3
Date 15 APRIL 2011

Revisions

WALL SECTIONS

CONSTRUCTION DOCUMENTS
Scale: 3/8" = 1'-0"

A5.3



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Landscape Architect Falmouth, MA 02540
(508) 548-8119

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Civil Engineer Falmouth, MA 02540
(508) 548-3564

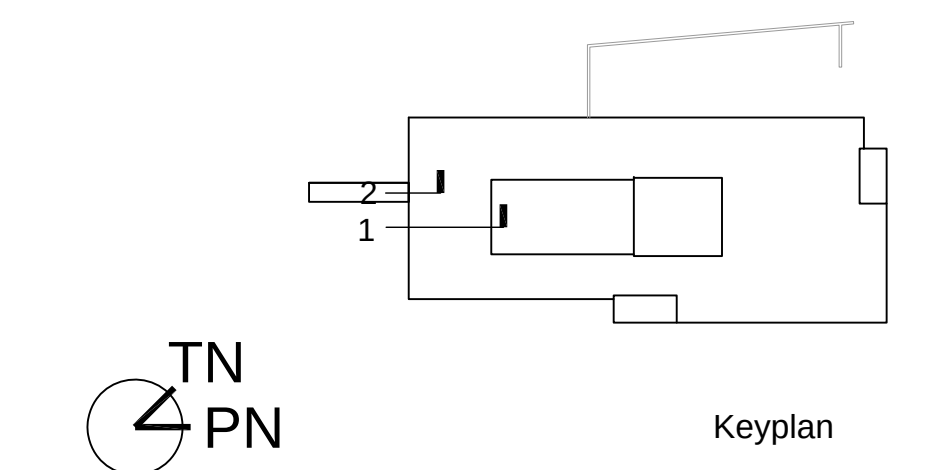
LeMessurier Consultants 675 Massachusetts Avenue
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Notes:

FOR WOOD PROFILE ASSEMBLIES, SEE SHEET A6



Job Number 31003
Drawing By TAK
Checked By EM
Filename 31003-A5.4
Date 15 APRIL 2011

Revisions

WALL SECTIONS

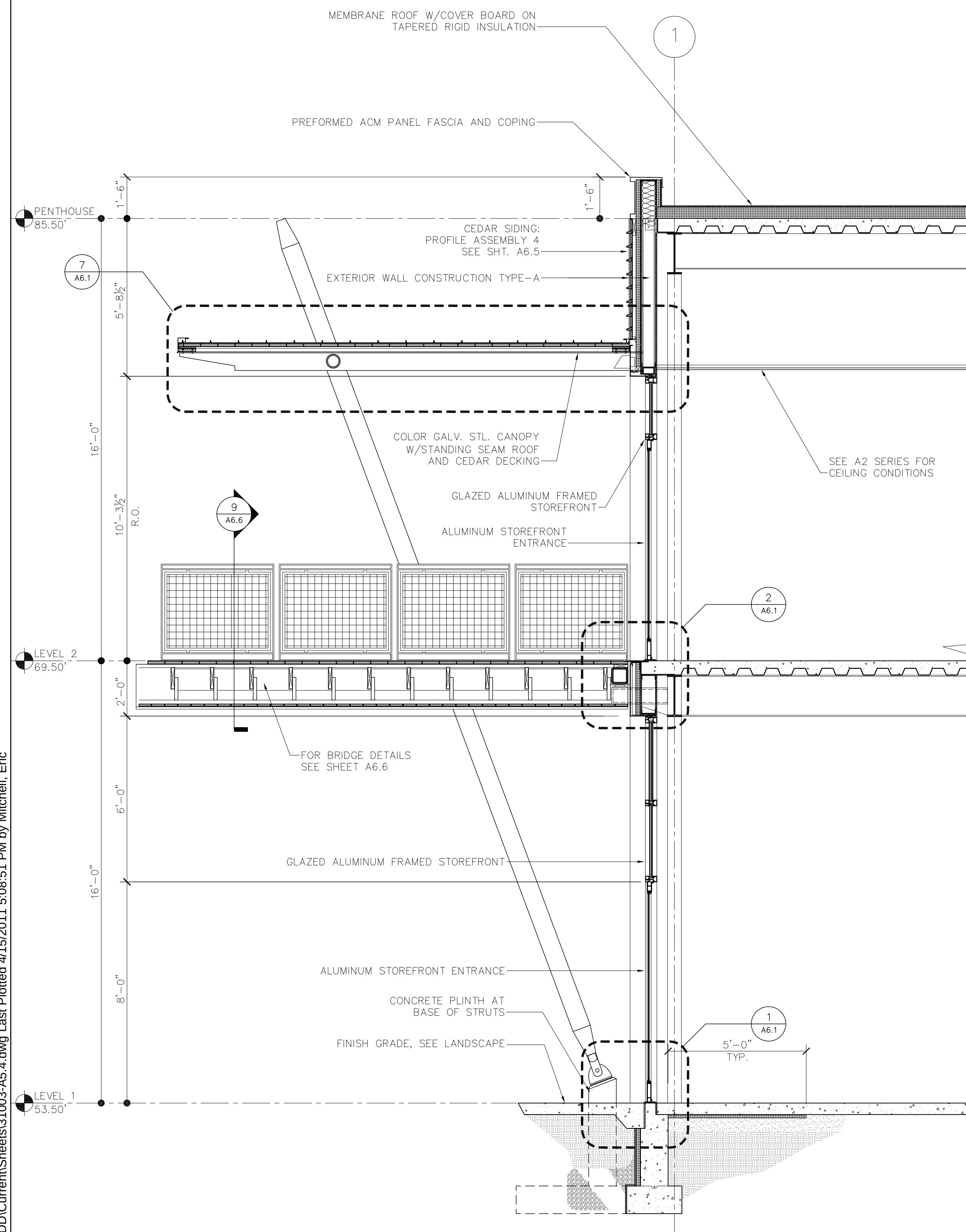
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Scale: 3/8" = 1'-0"

A5.4

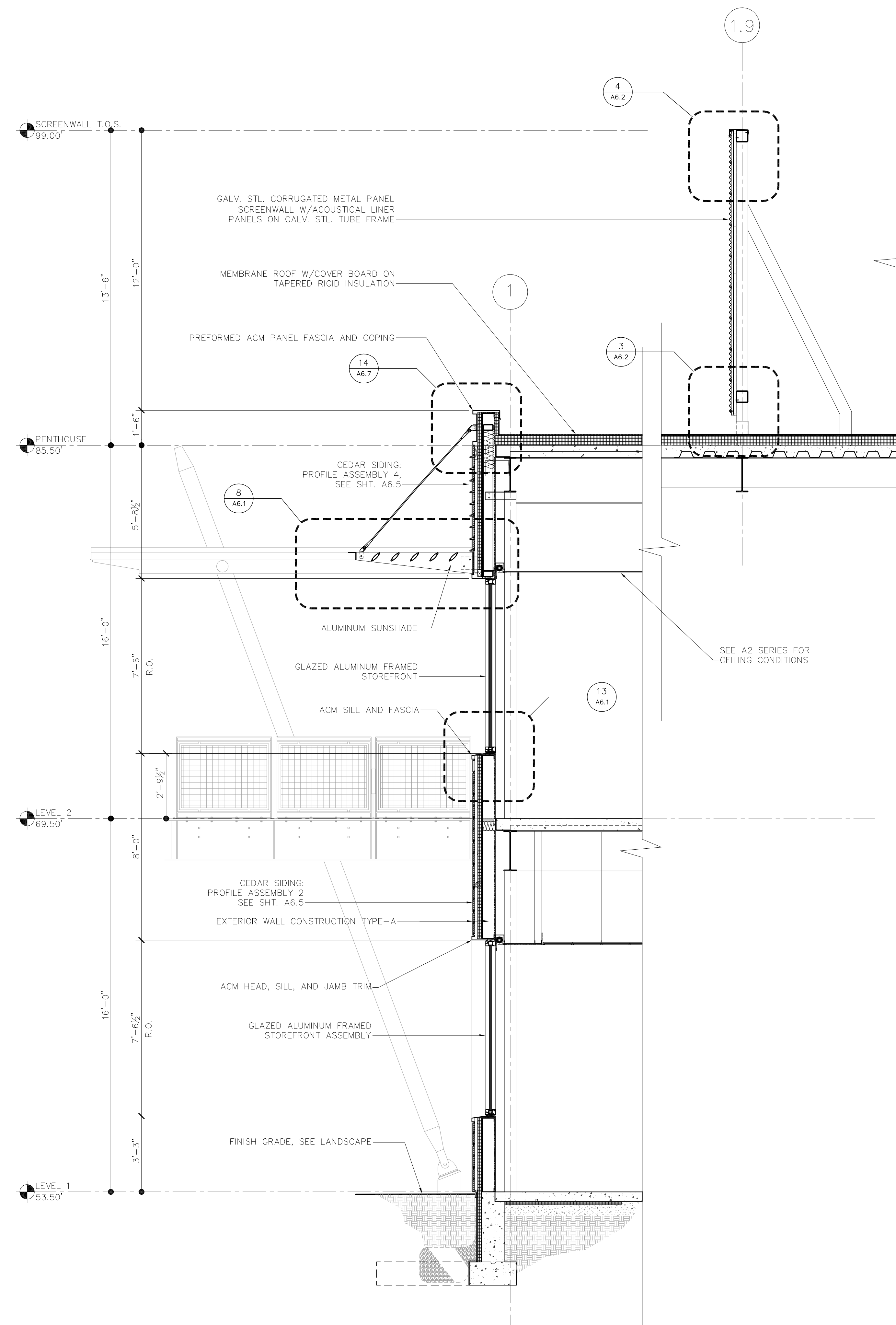
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EXTERIOR WALL ASSEMBLY TYPES:

- A. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
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- D. 2" INSULATED METAL PANELS ON 6" METAL FRAMING.



2 WALL SECTION AT SOUTH BRIDGE
3/8" = 1'-0"



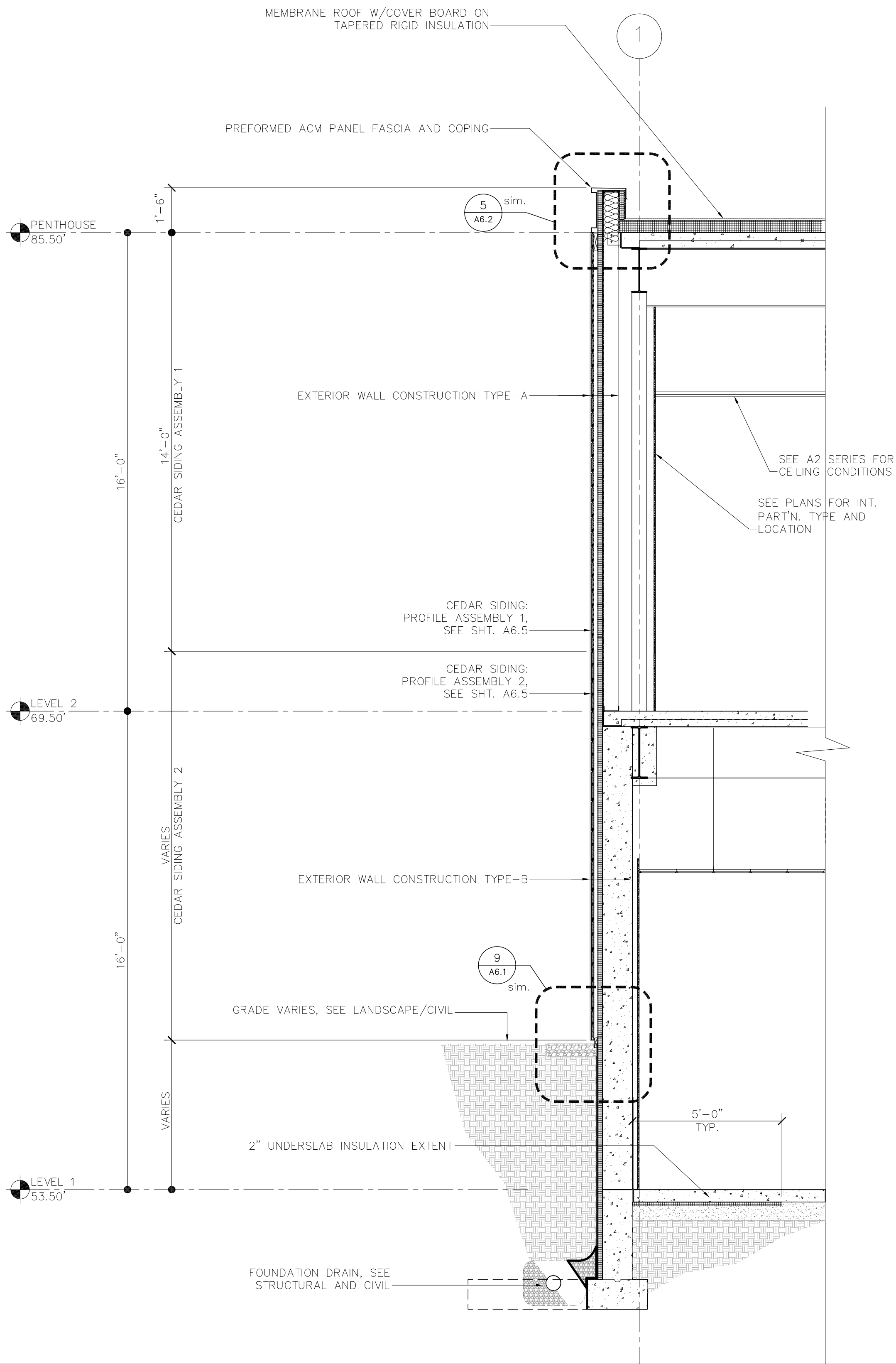
1 WALL SECTION AT SOUTH CANOPY
3/8" = 1'-0"

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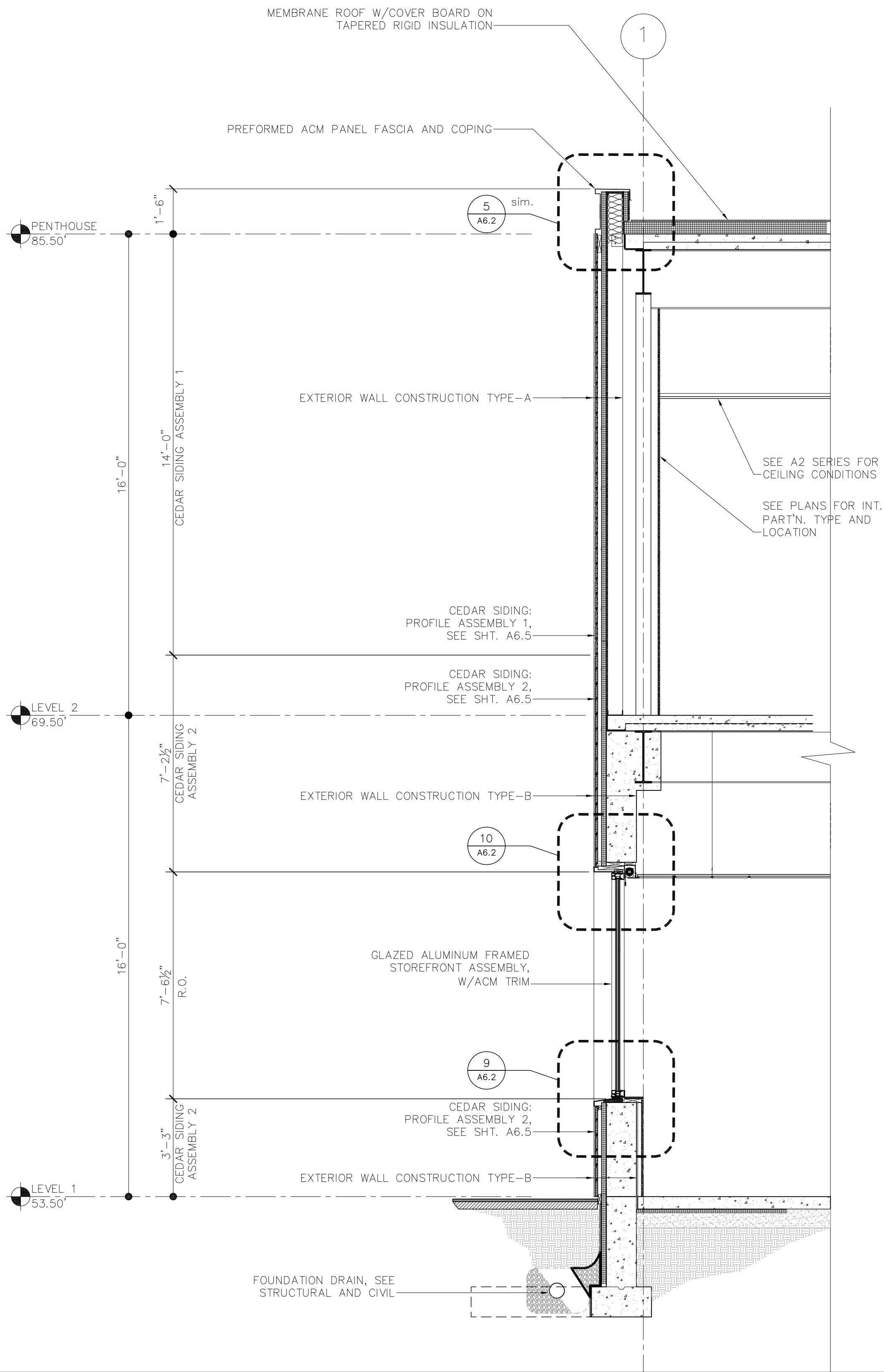
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EXTERIOR WALL ASSEMBLY TYPES:

- A. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
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- D. 2" INSULATED METAL PANELS ON 6" METAL FRAMING.



2 WALL SECTION
3/8" = 1'-0"

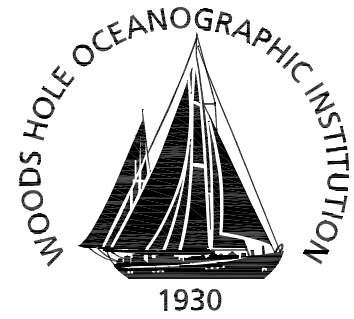


1 WALL SECTION
3/8" = 1'-0"

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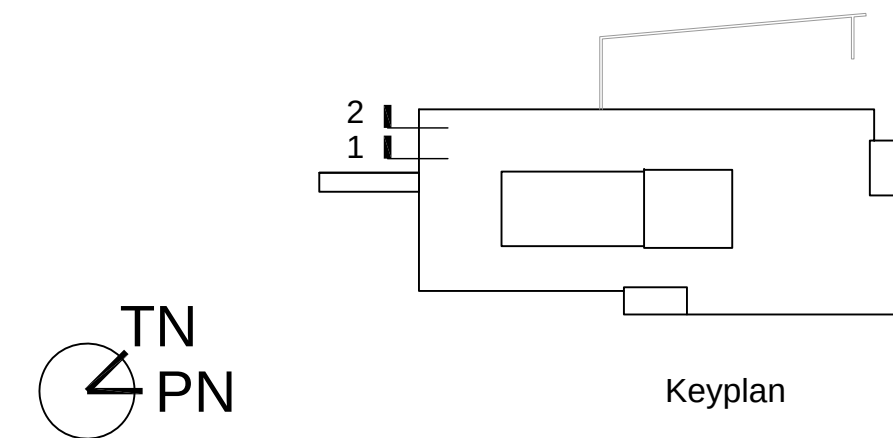
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Notes:
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Job Number 31003
Drawing By TAK
Checked By EM
Filename 31003-A5.5 WALL SECTIONS
Date 15 APRIL 2011

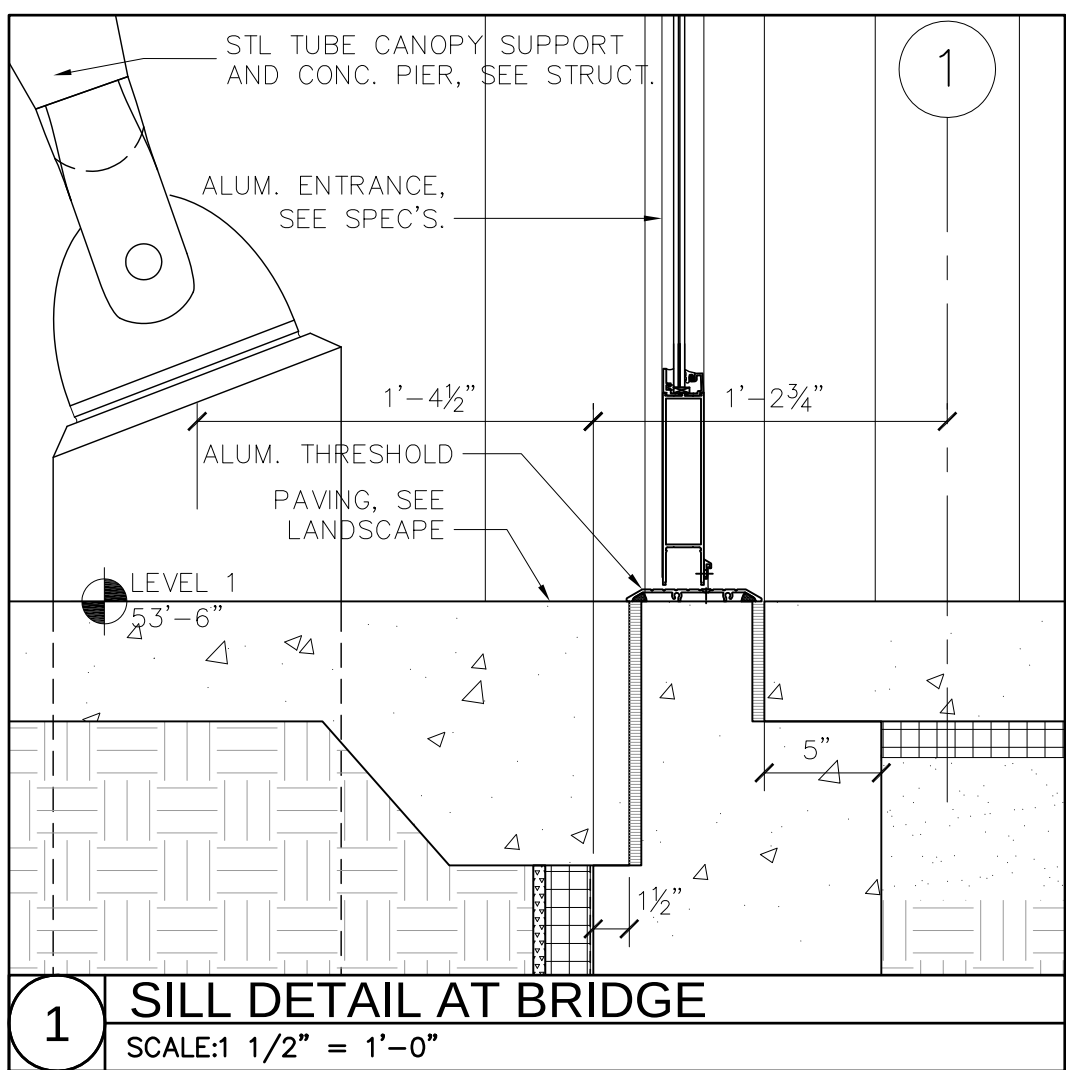
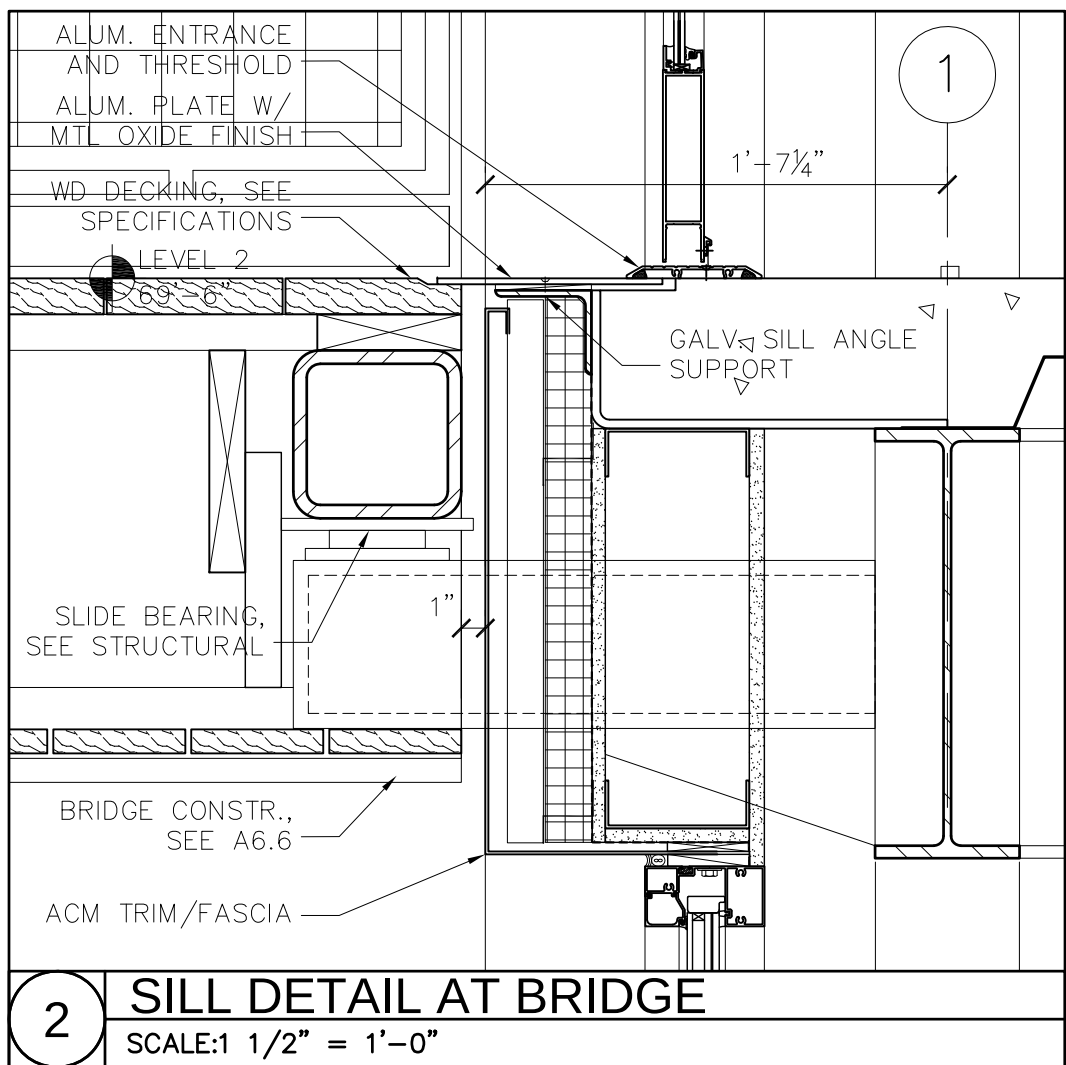
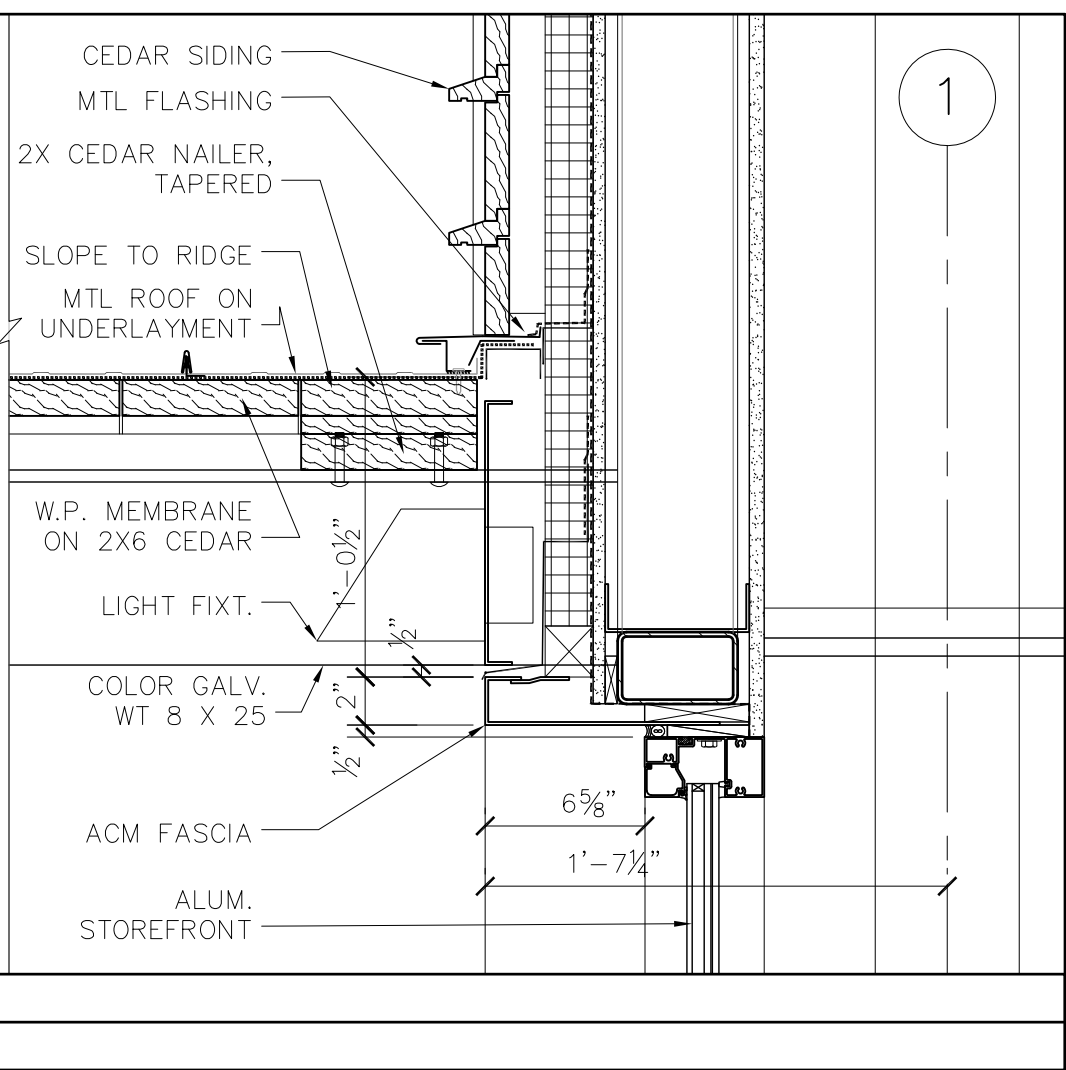
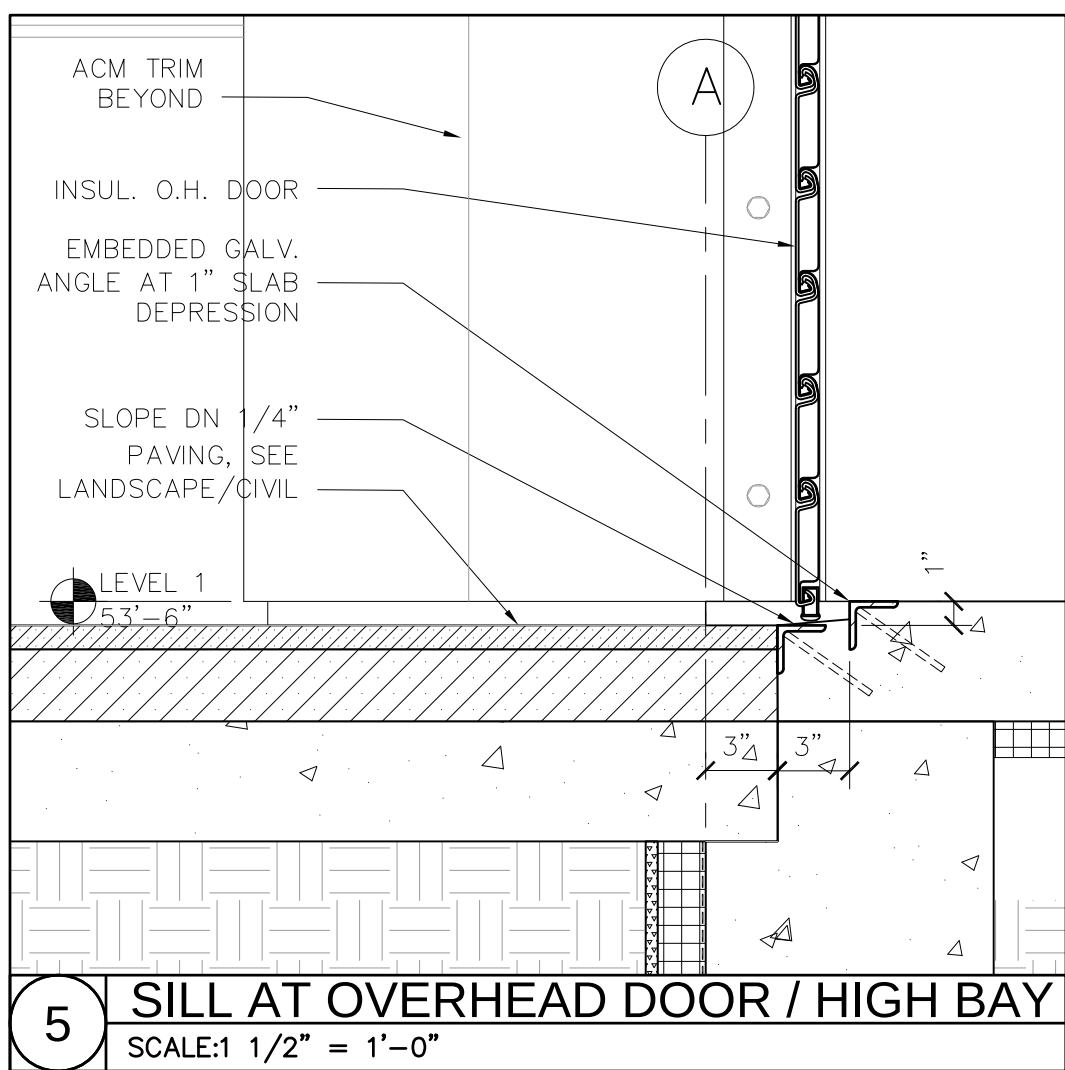
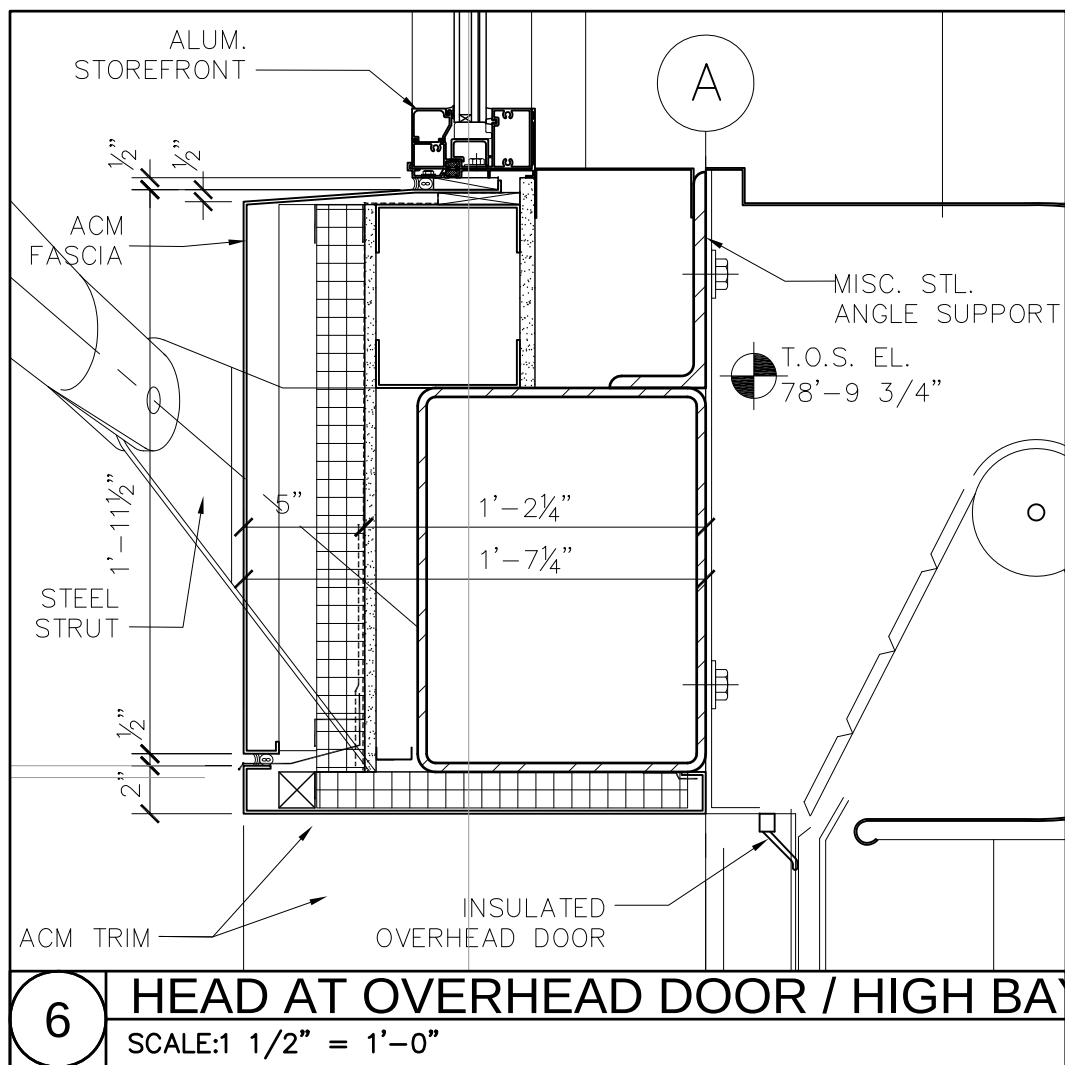
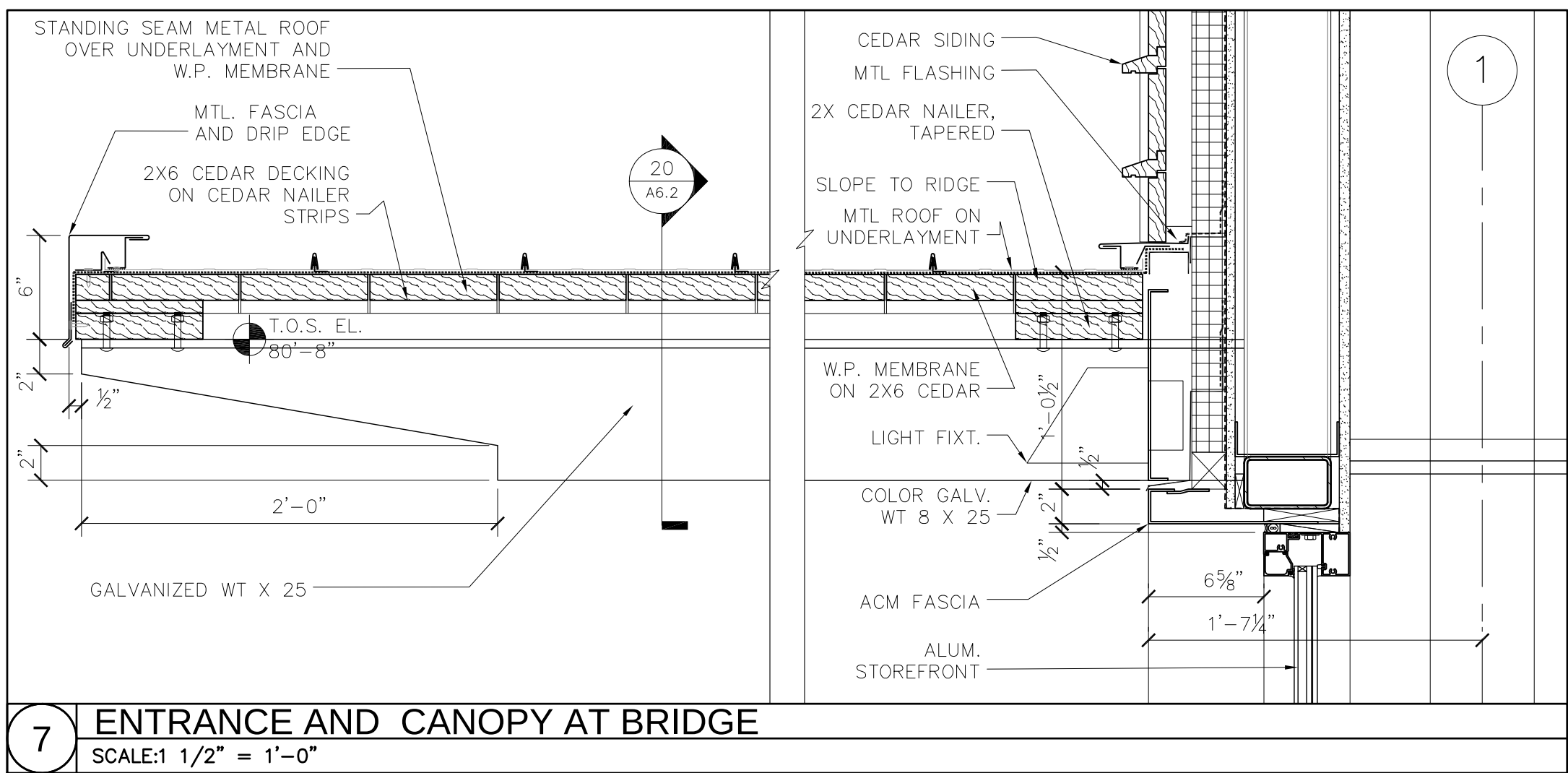
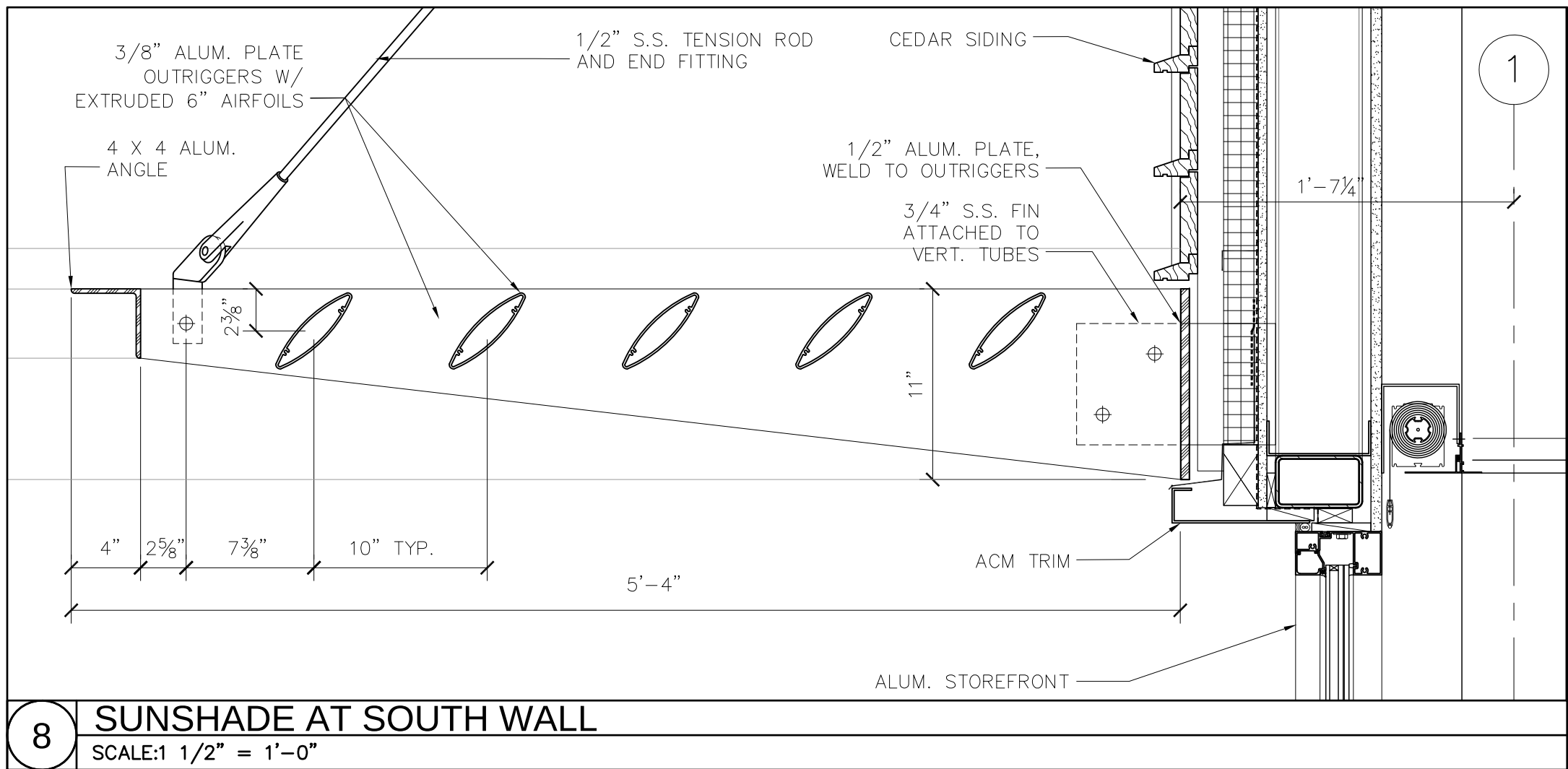
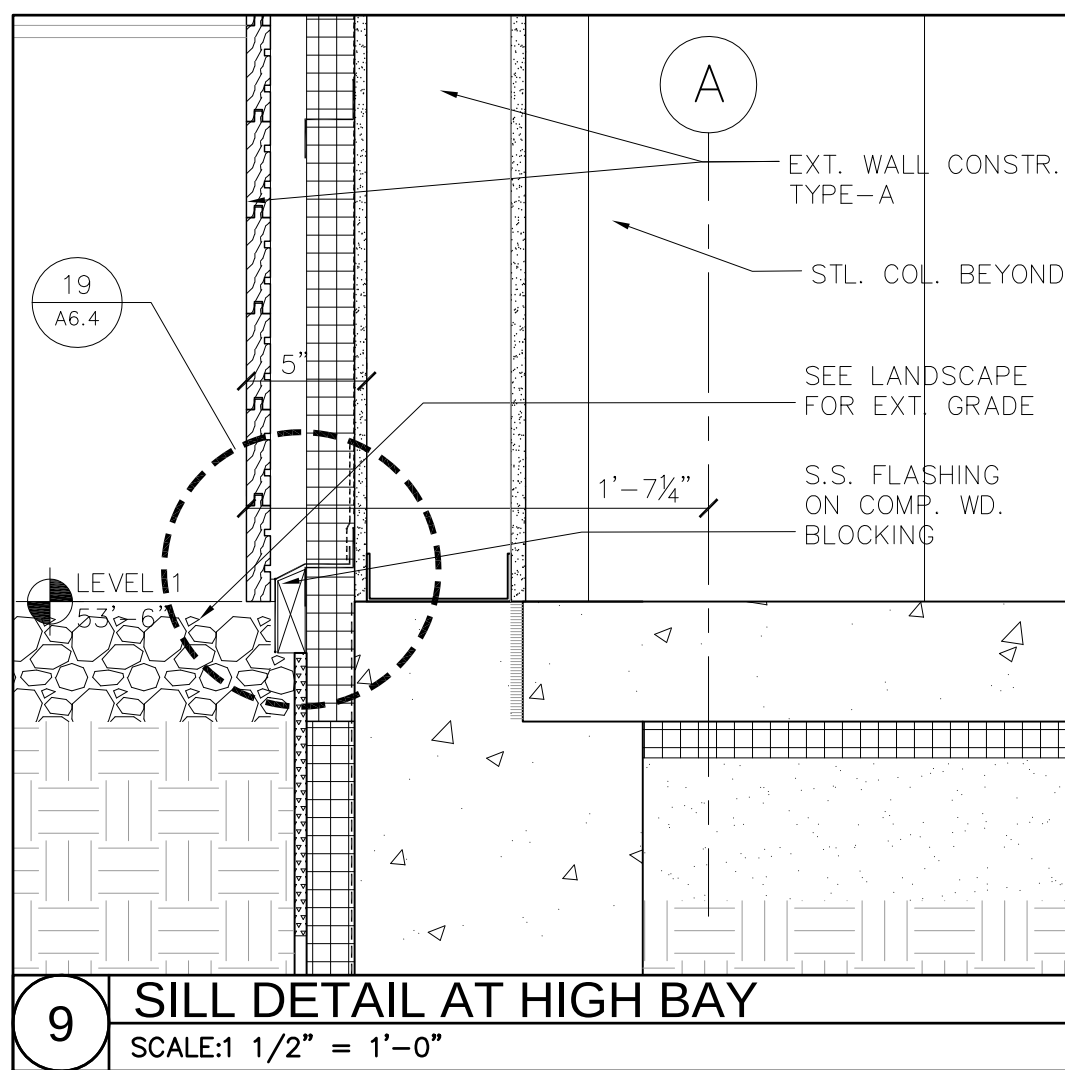
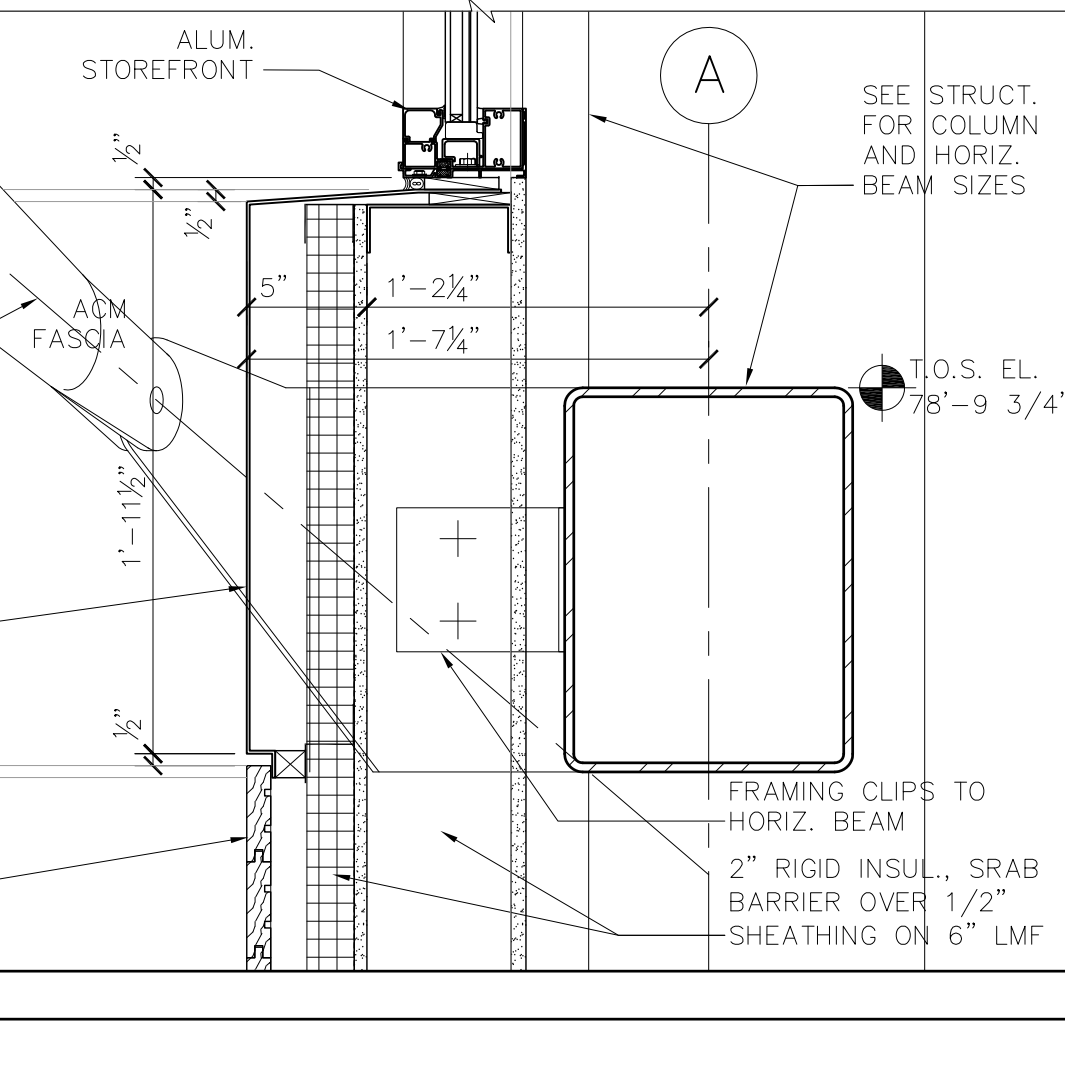
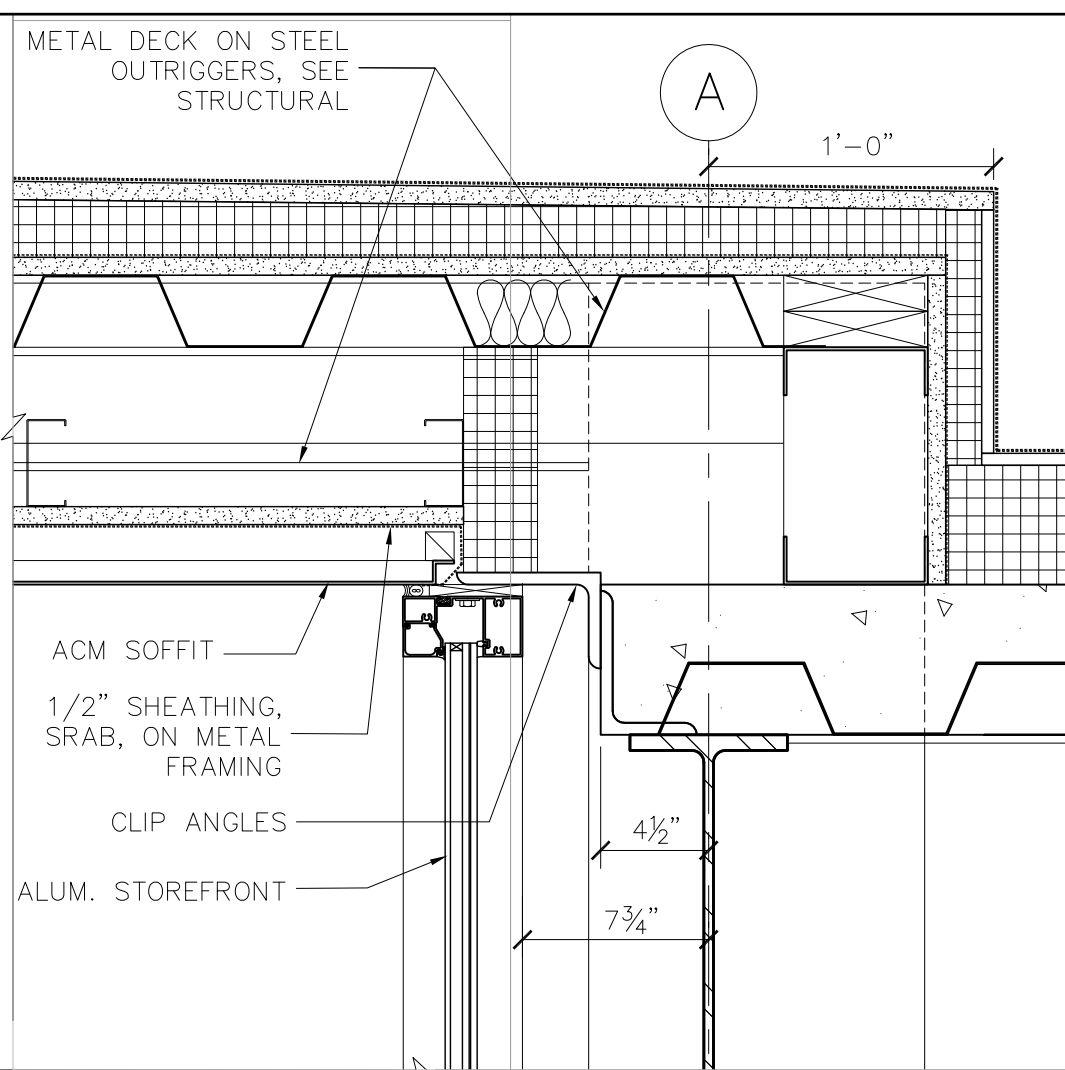
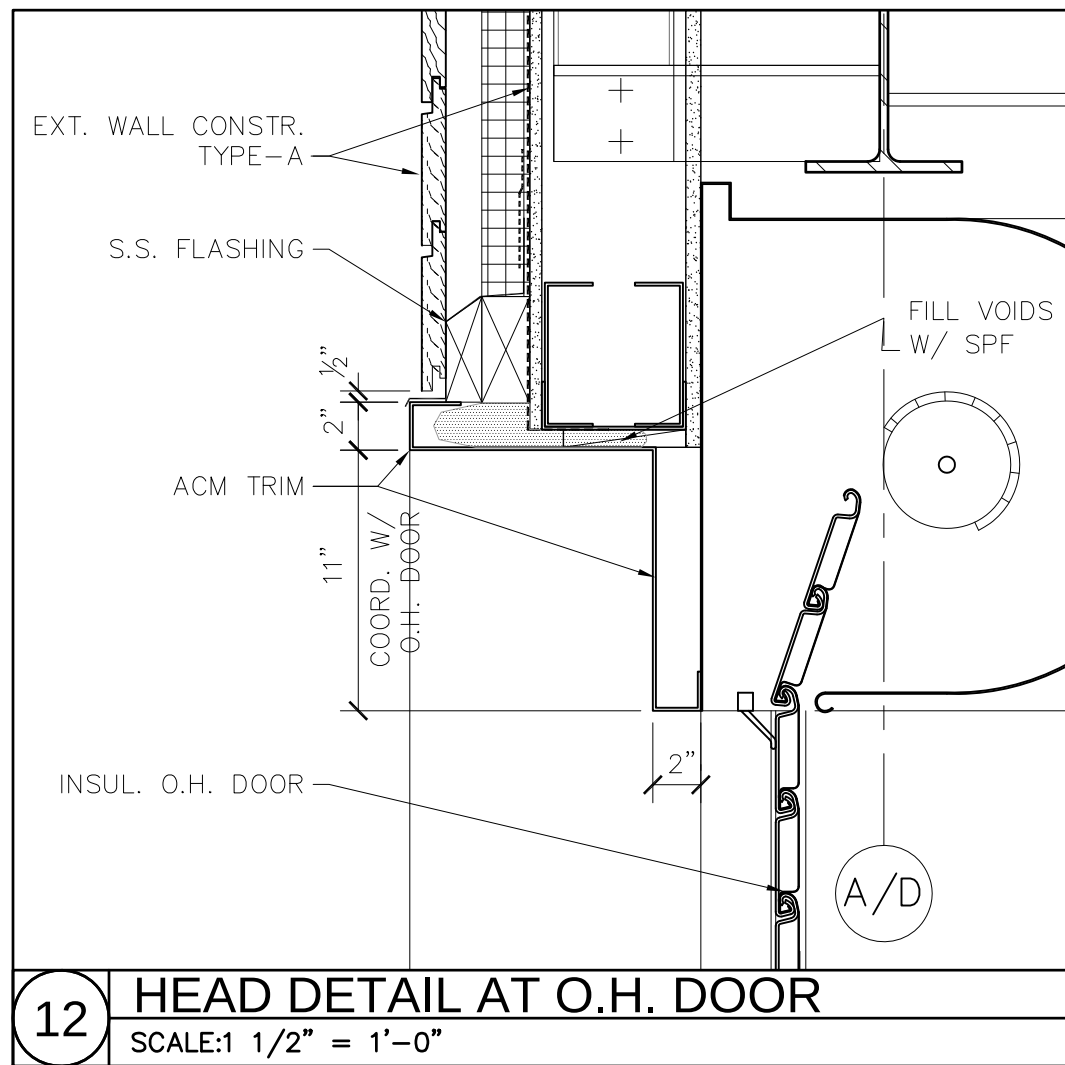
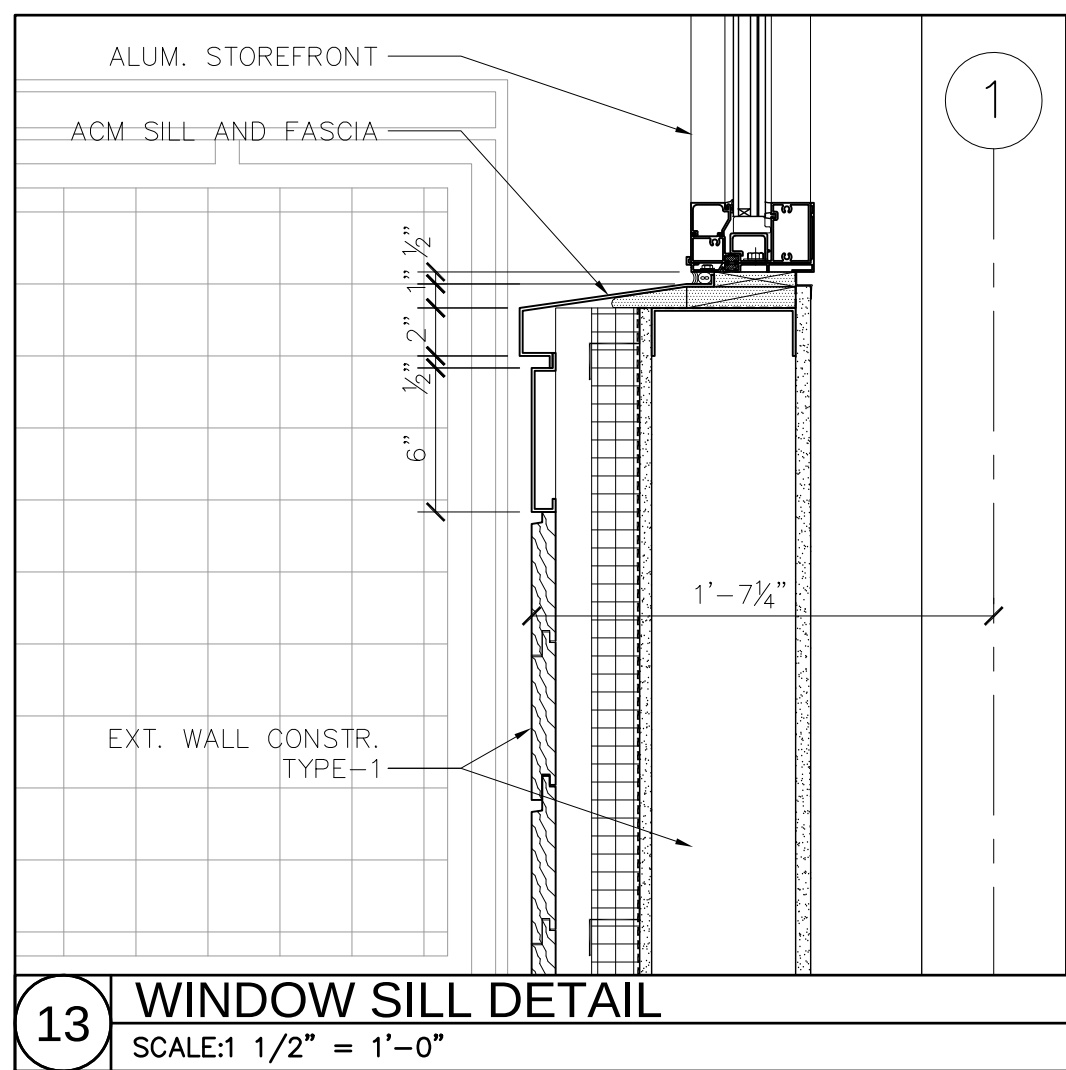
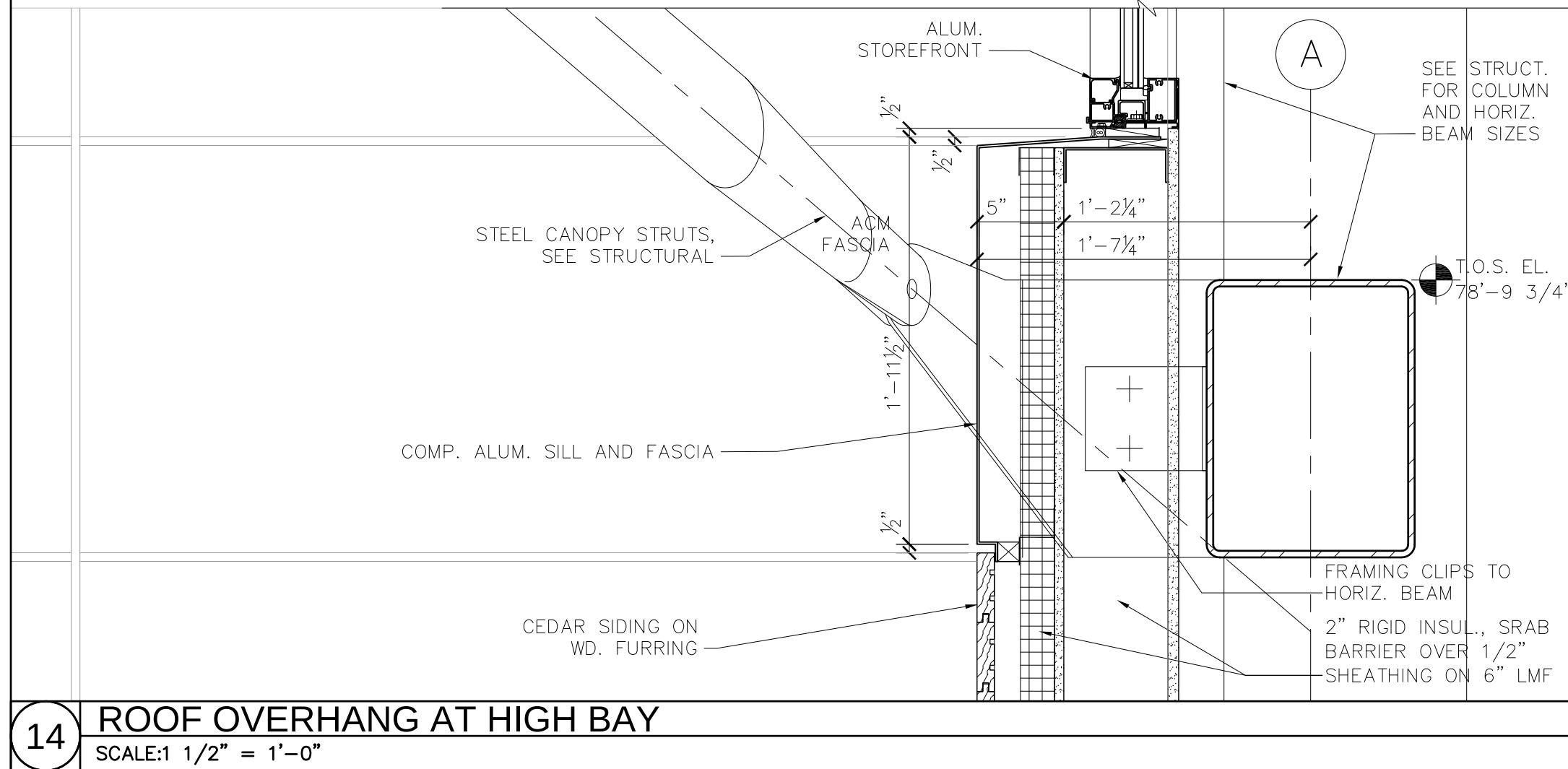
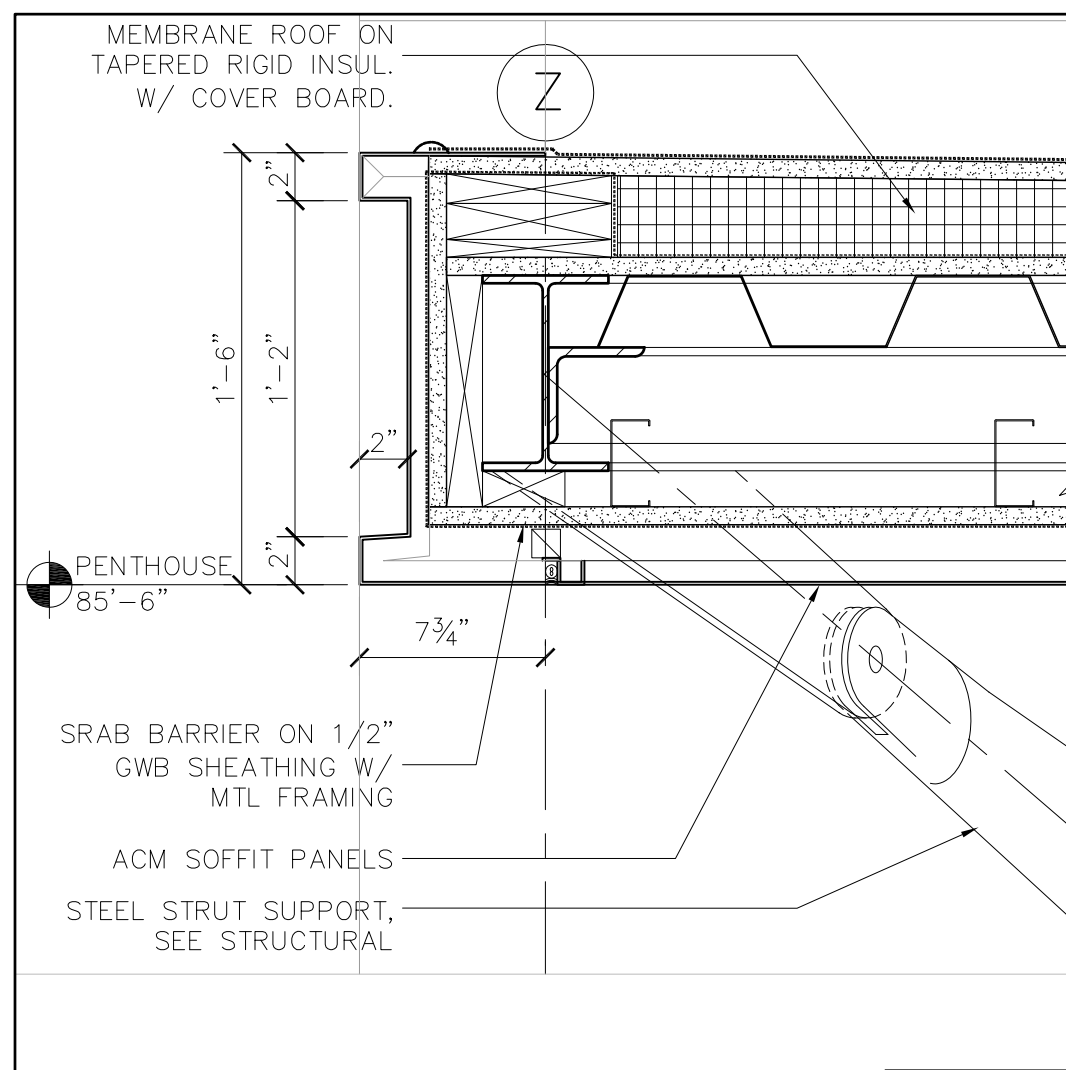
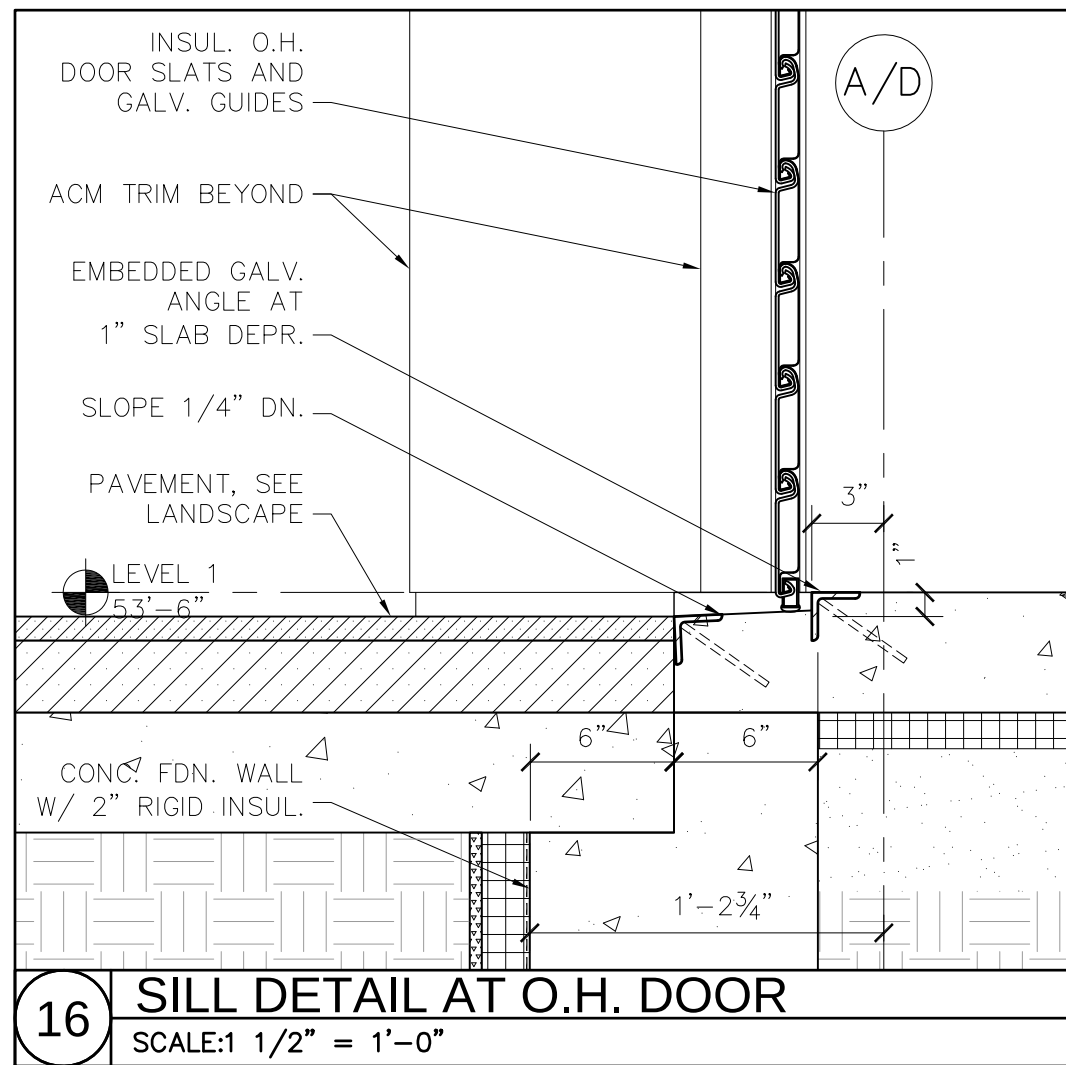
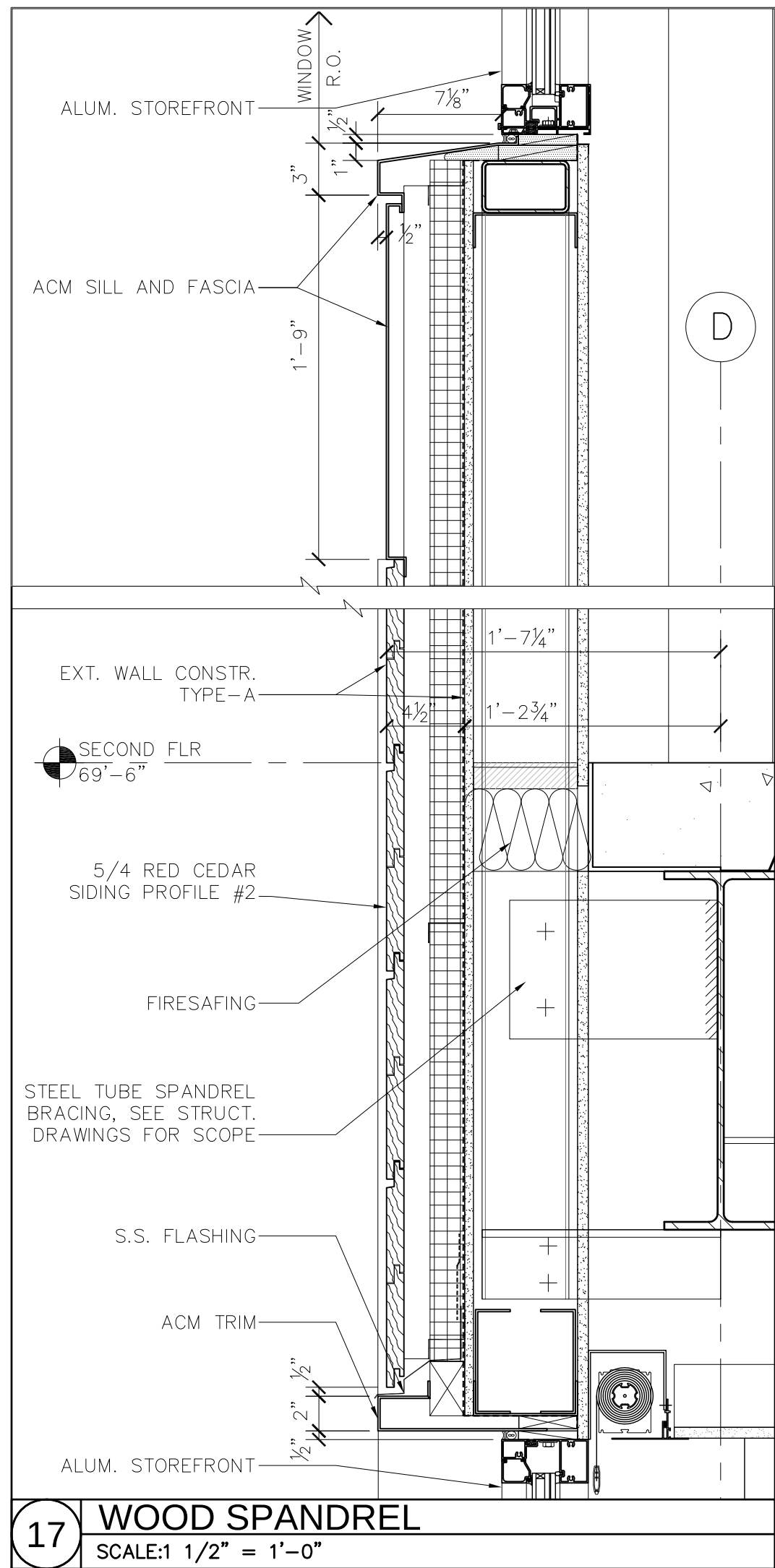
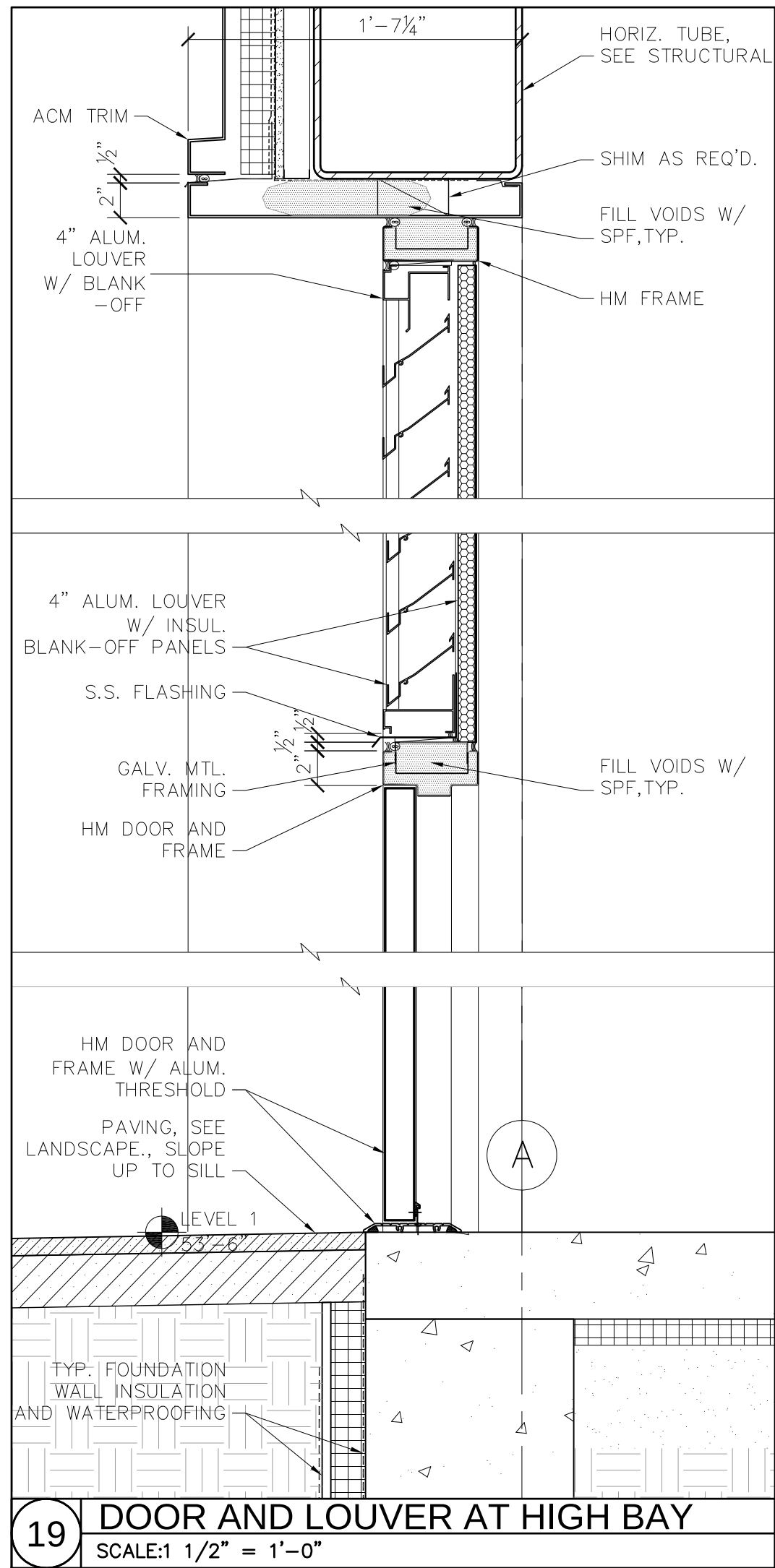
Revisions

WALL SECTIONS

CONSTRUCTION DOCUMENTS
Scale: 3/8" = 1'-0"

A5.5

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Woods Hole Oceanographic Institution

Laboratory of Ocean Sensors and Observing Systems (LOSOS)

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Columbia Construction Co. Construction Manager 100 Riverpark Drive
P.O. Box 220
North Reading, MA 01864
(978) 664-9500

Notes:

EXTERIOR WALL ASSEMBLY TYPES:

- 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
- 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
- 2" INSULATED METAL PANELS ON 5/8" TYPE-X GWB SHEATHING ON 6" METAL FRAMING. (1-HR ASSEMBLY)
- 2" INSULATED METAL PANELS ON 6" METAL FRAMING.

Job Number 31003
Drawing By TAK
Checked By EM
Filename 31003-A6.1
Date 15 APRIL 2011

Revisions

SECTION DETAILS

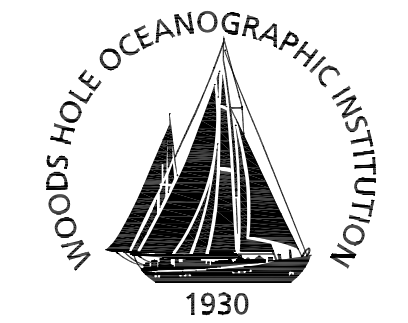
CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A6.1

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Notes:

EXTERIOR WALL ASSEMBLY TYPES:

- A. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
- B. 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON CONC. FOUNDATION WALL W/W.P. MEMBRANE.
- C. 2" INSULATED METAL PANELS ON 5/8" TYPE-X CWB SHEATHING ON 6" METAL FRAMING. (1-HR ASSEMBLY)
- D. 2" INSULATED METAL PANELS ON 6" METAL FRAMING.

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Drawing By TAK
Checked By EM
Filename 31003-A6.2 SECTION DETAILS
Date 15 APRIL 2011

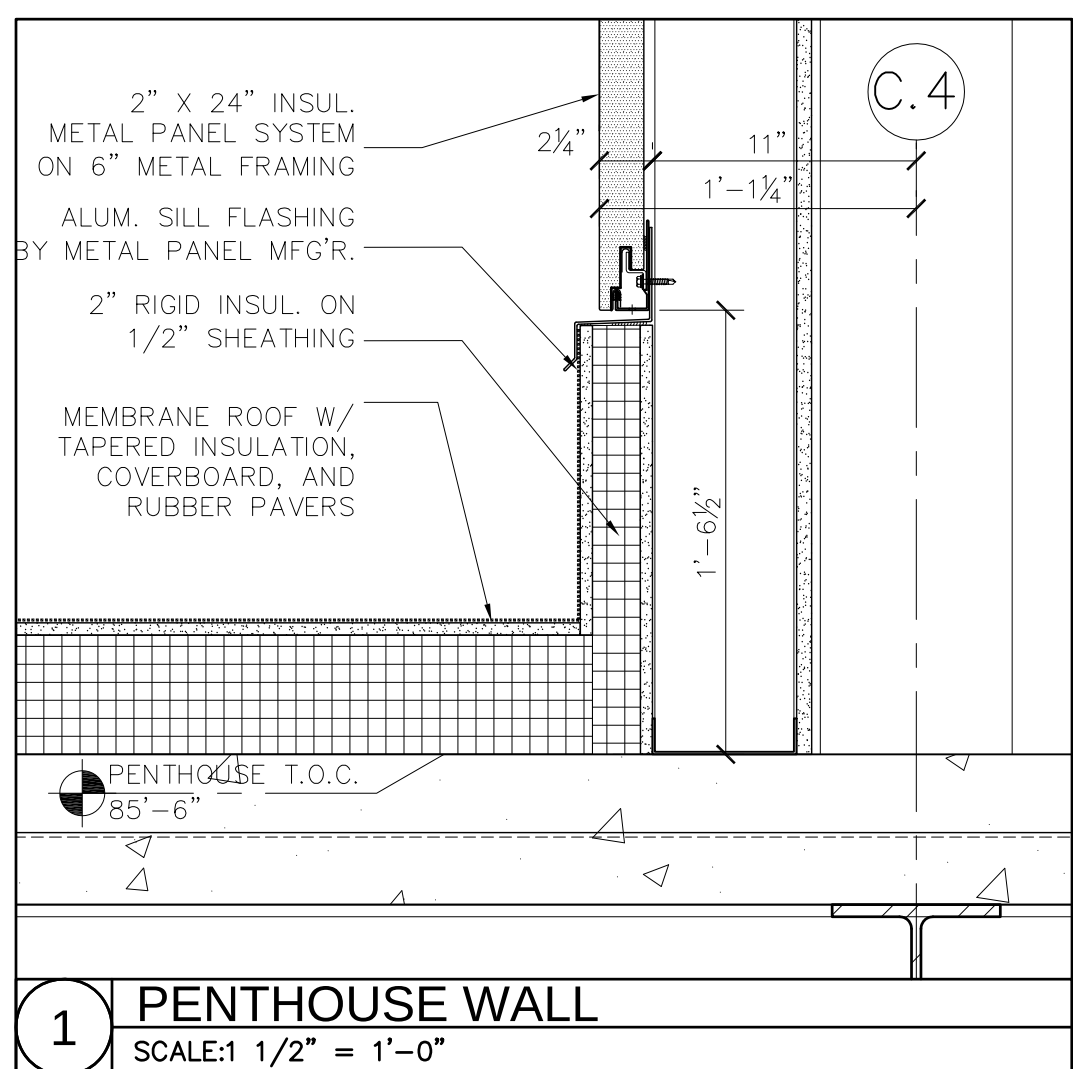
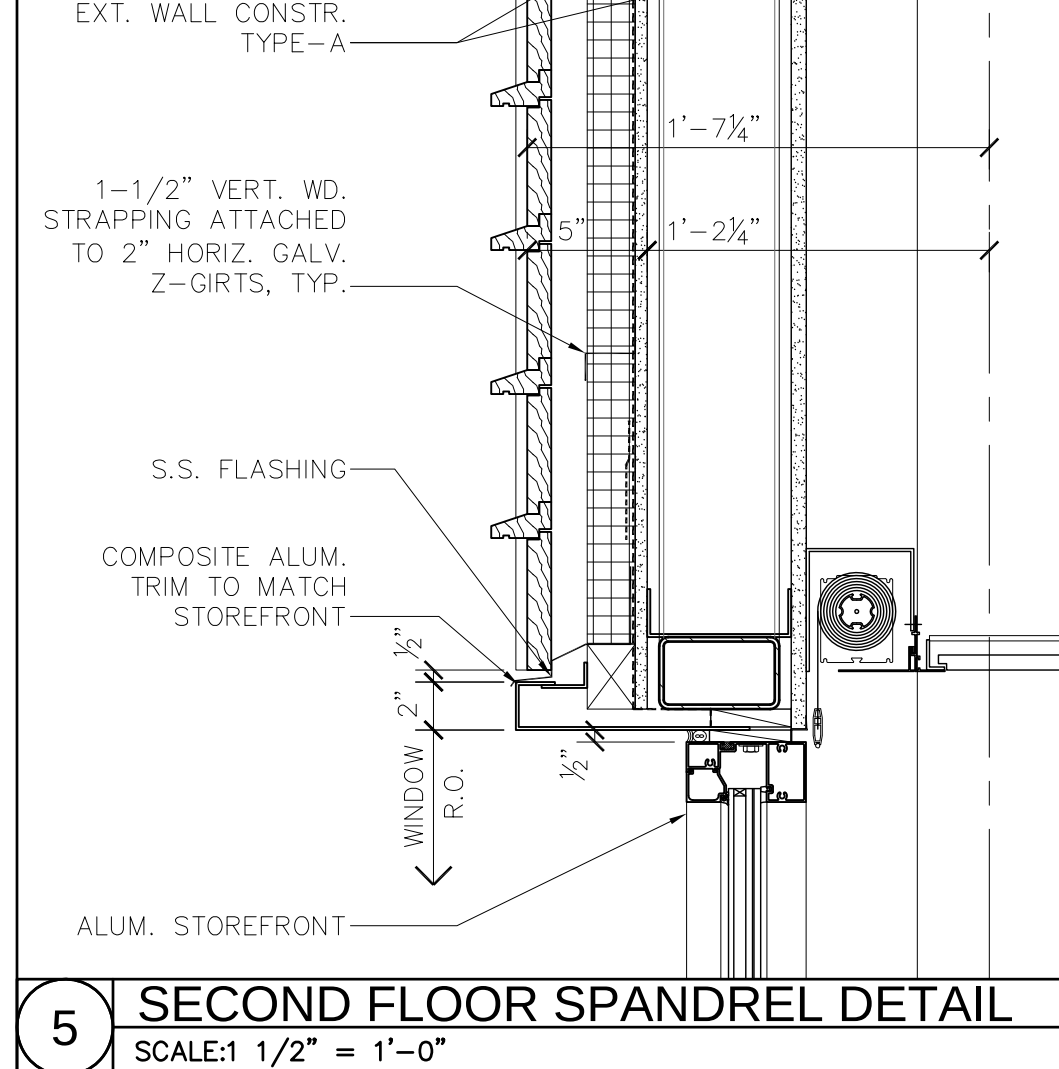
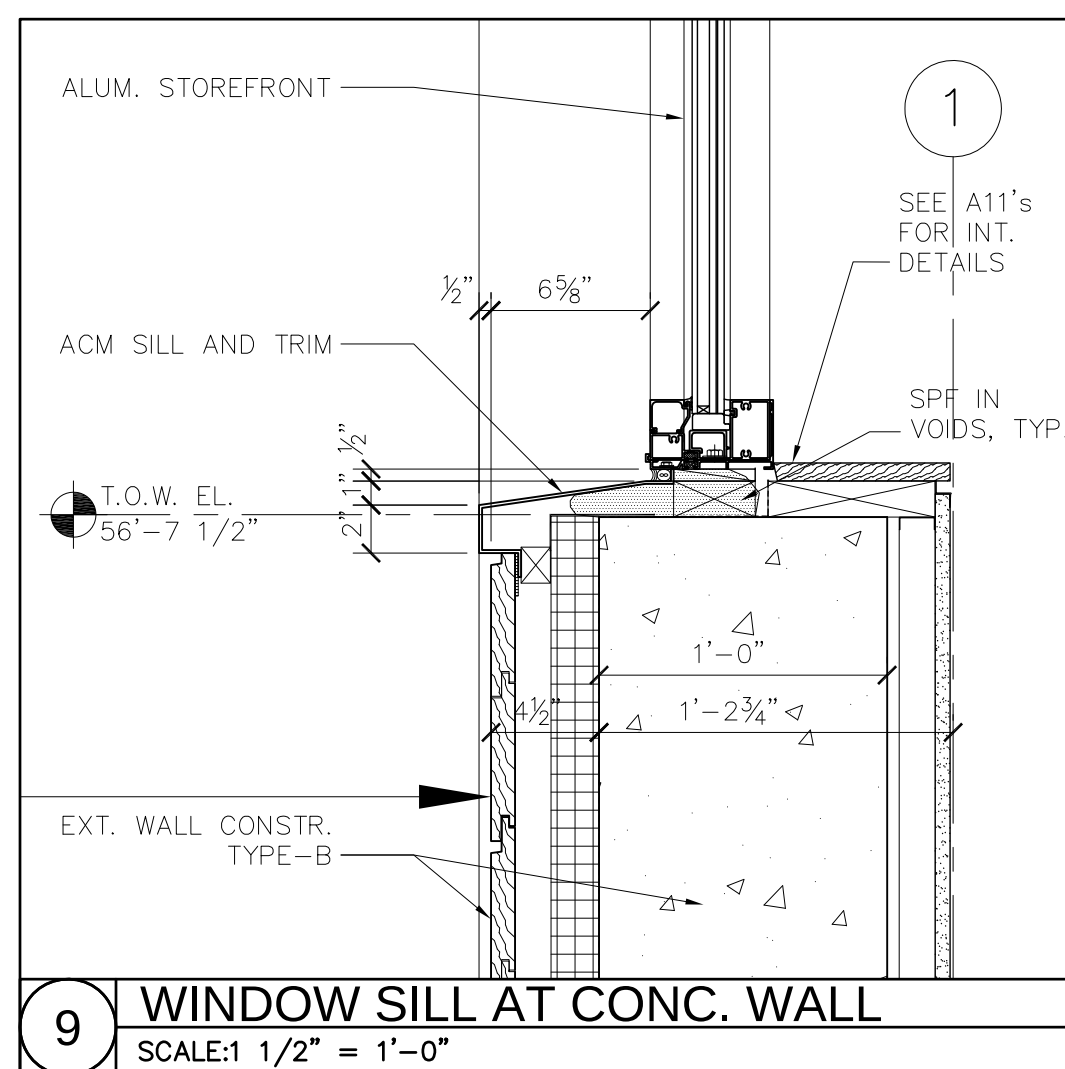
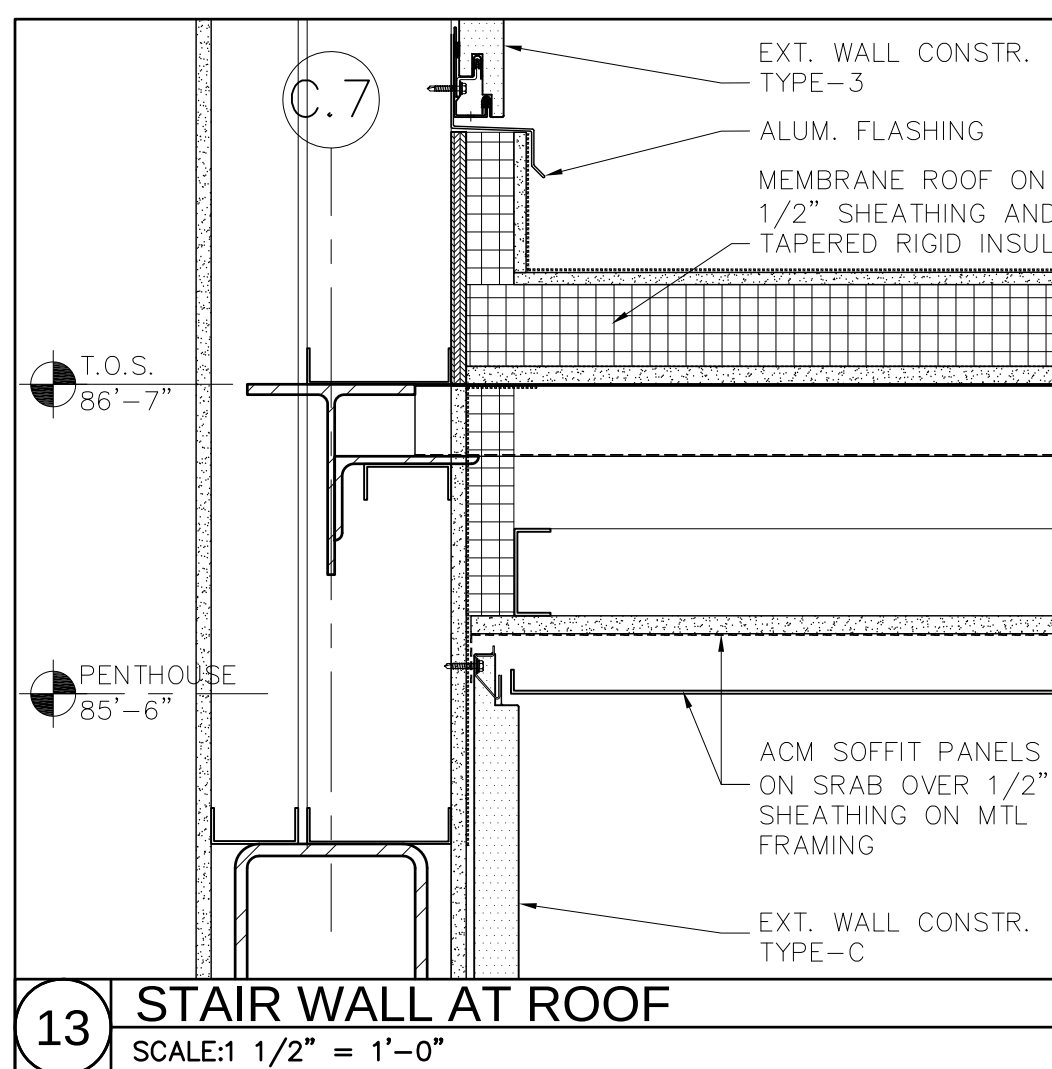
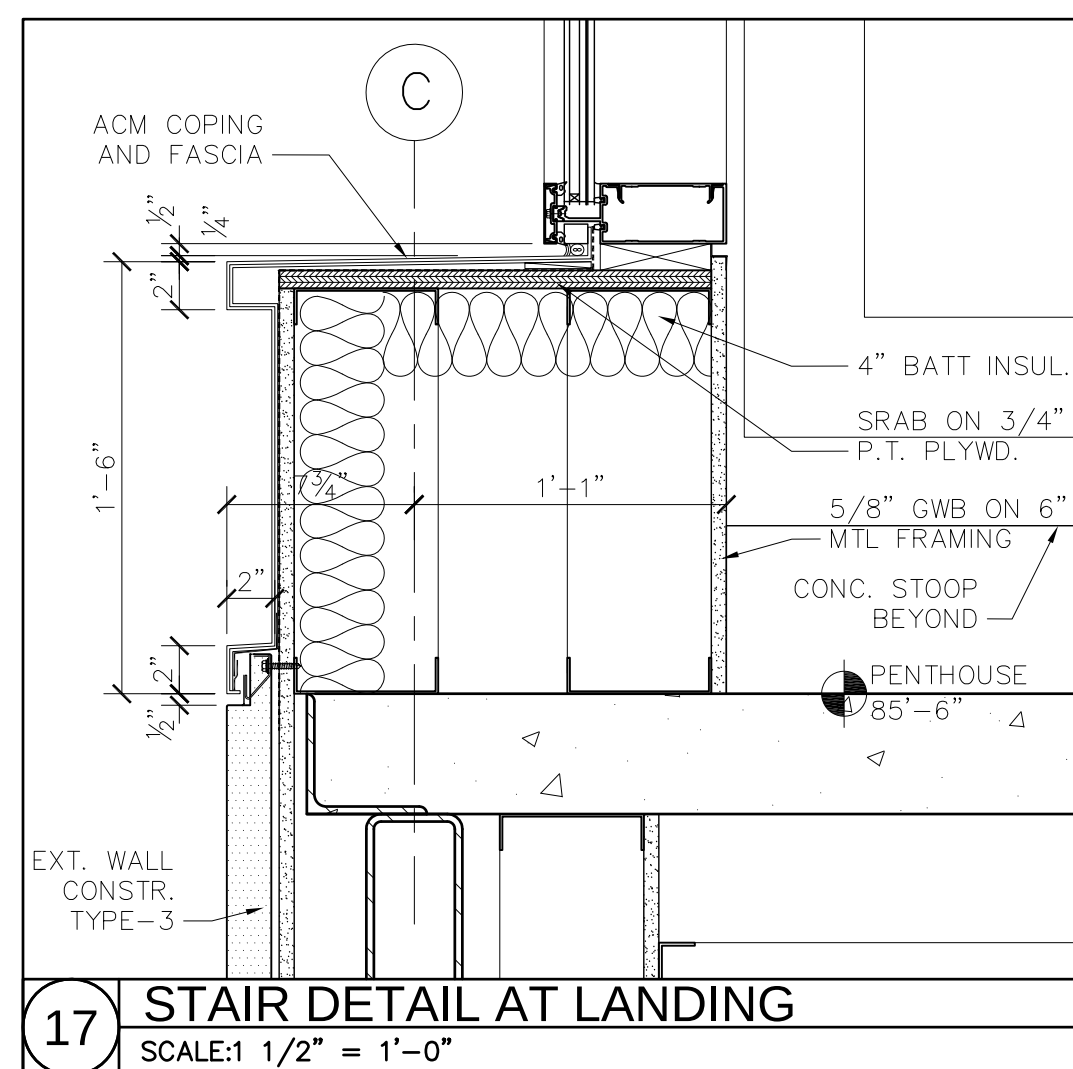
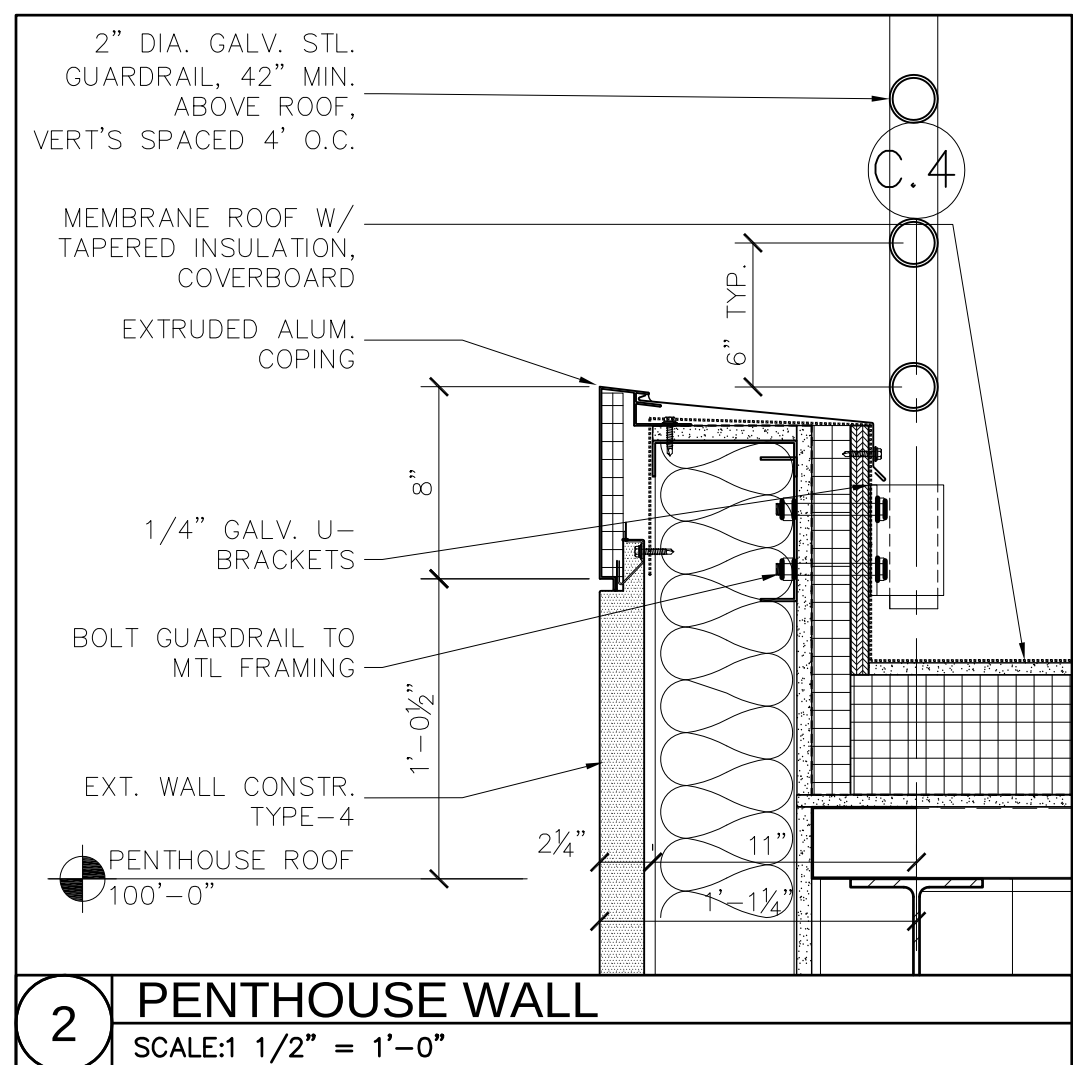
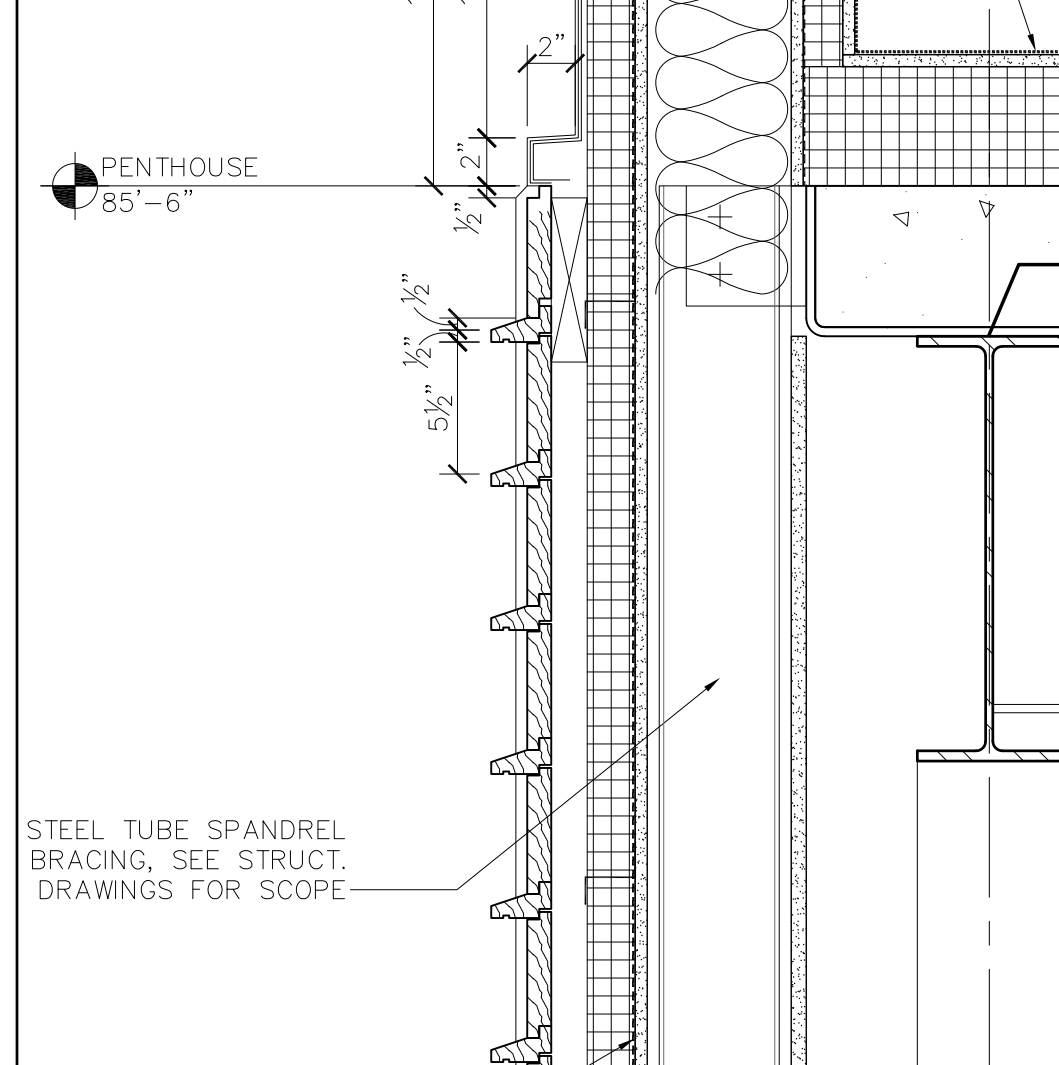
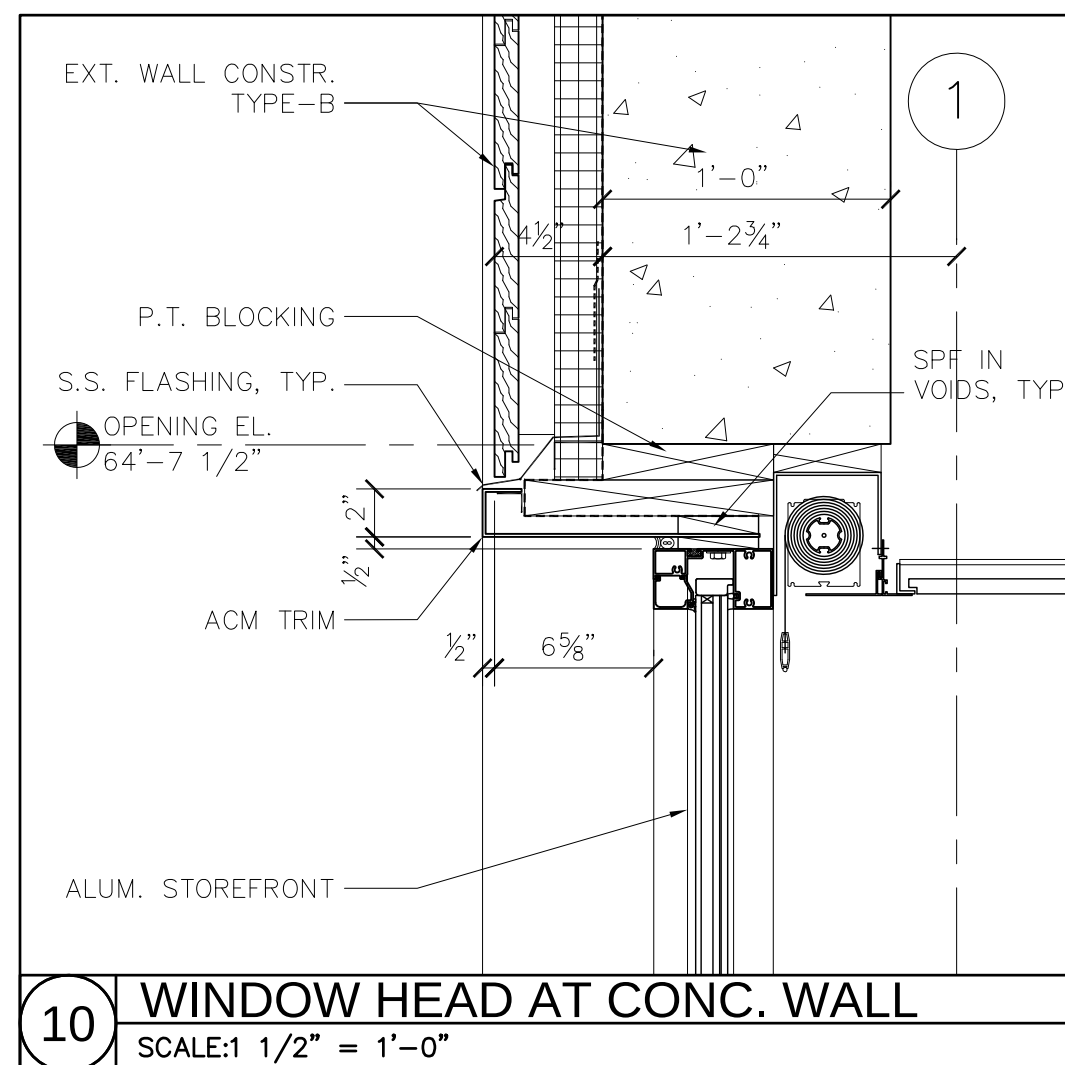
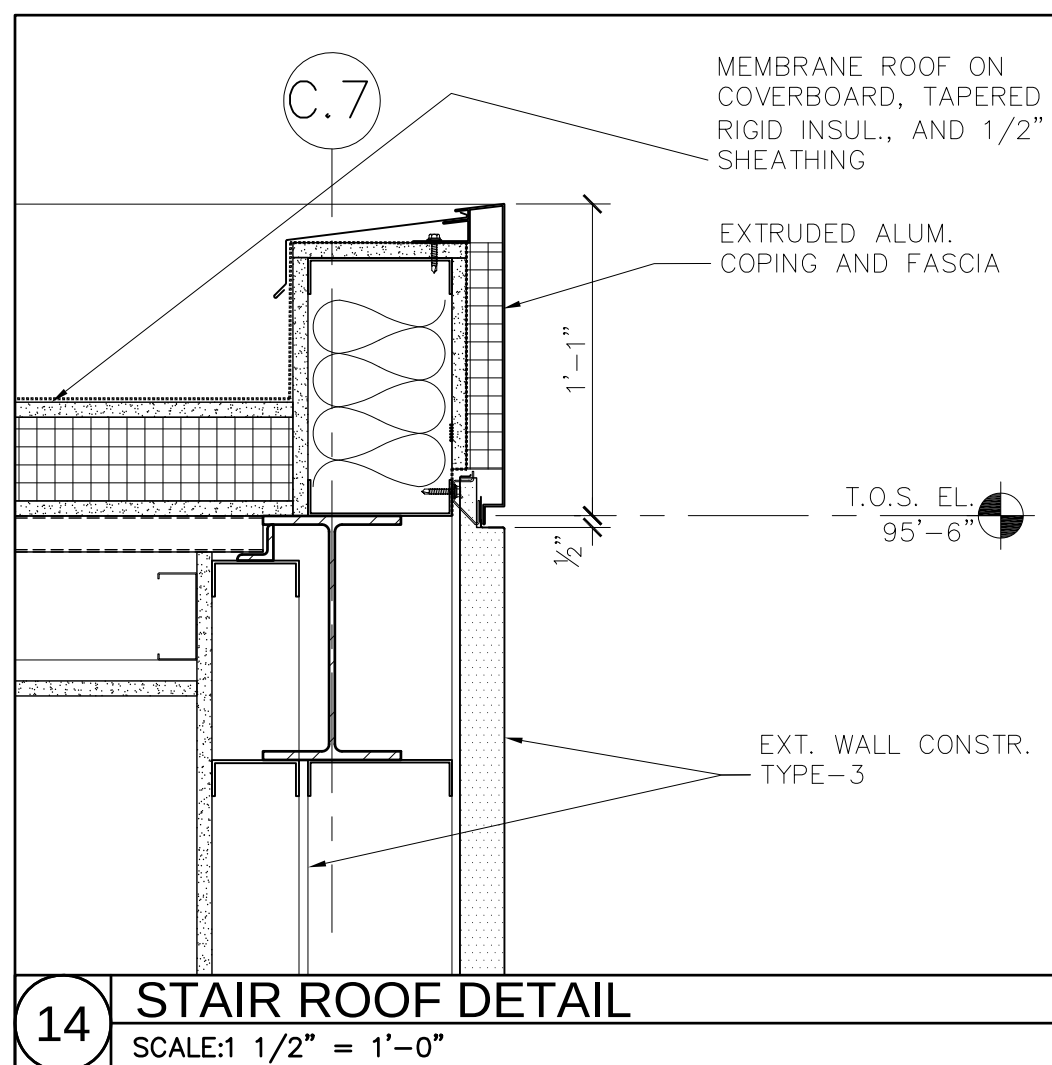
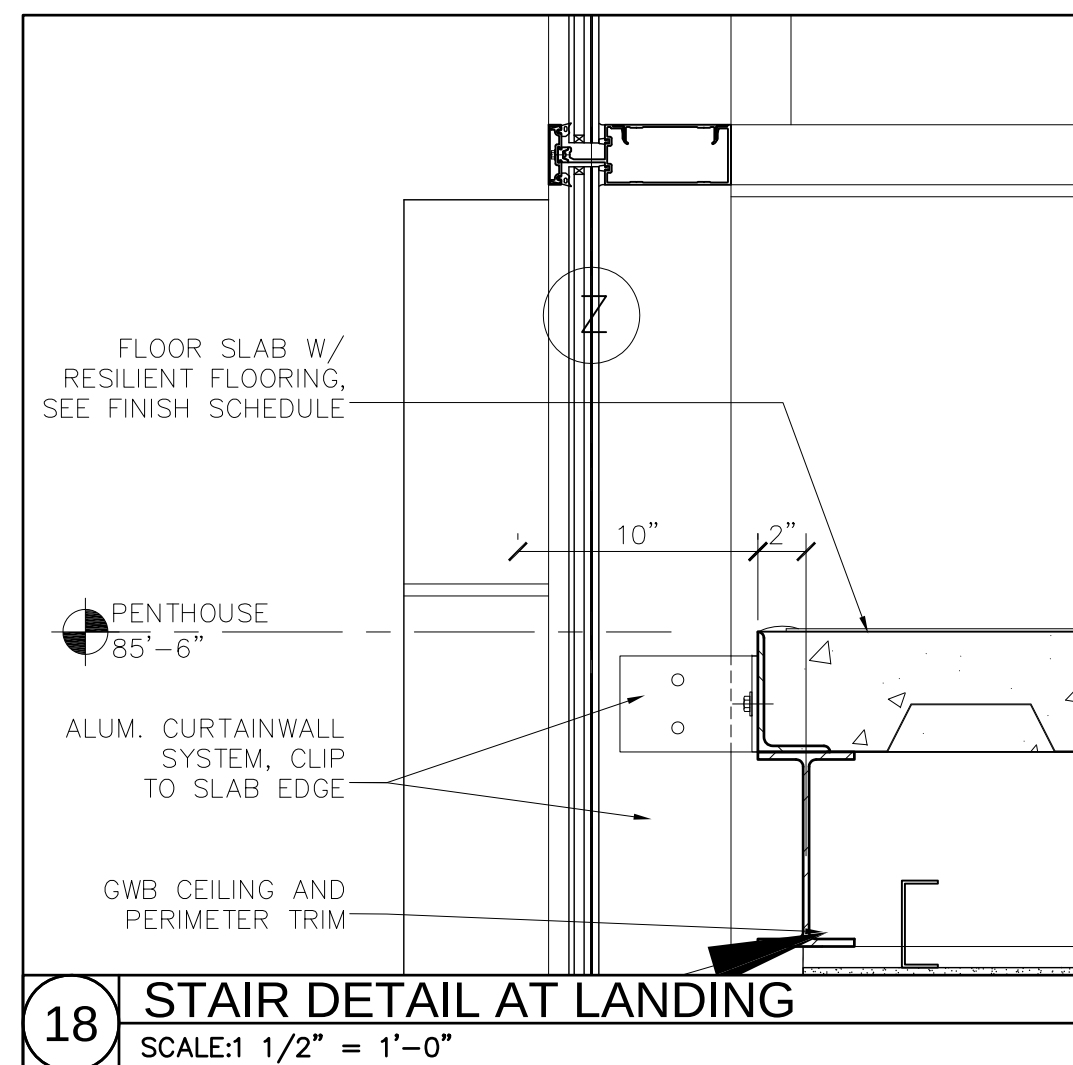
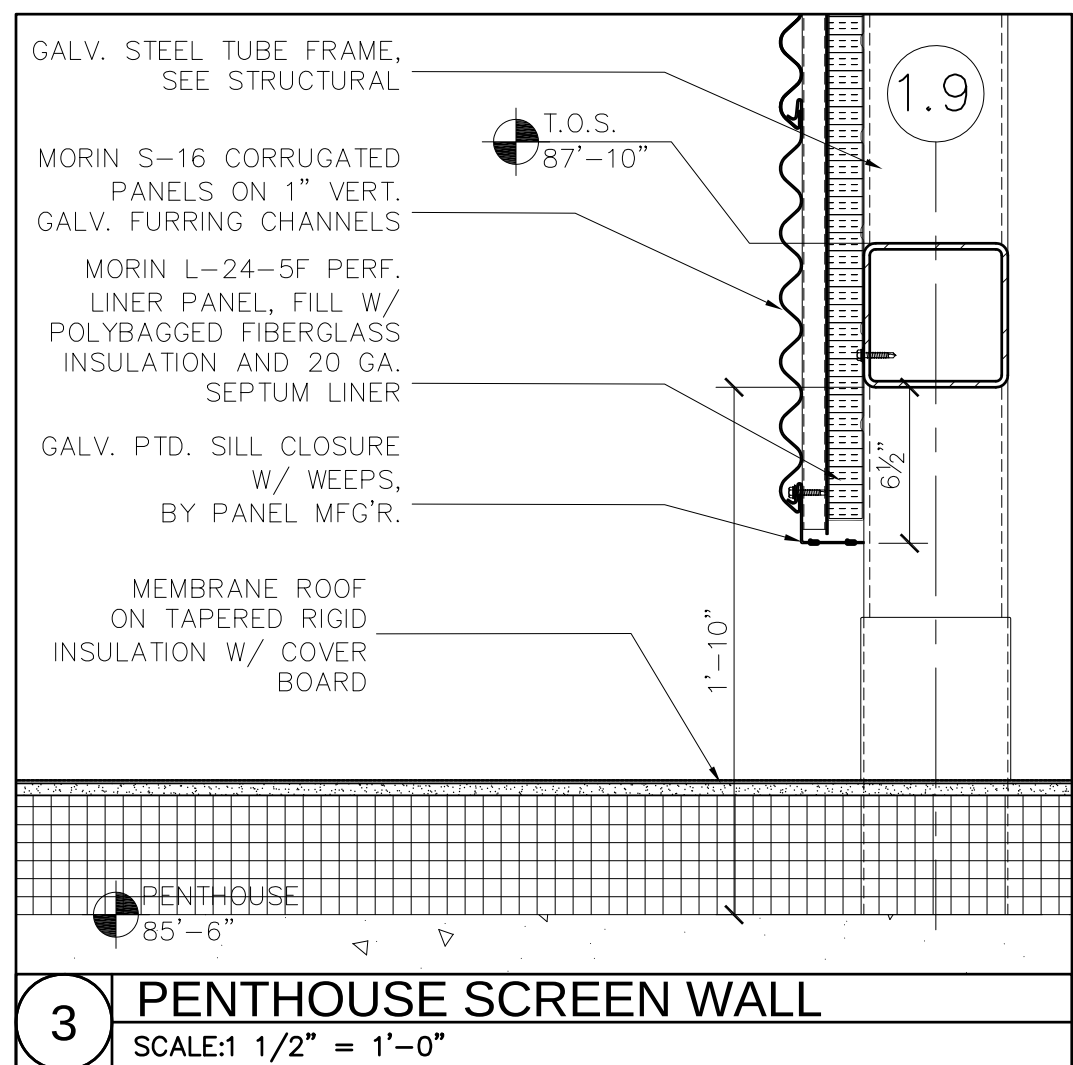
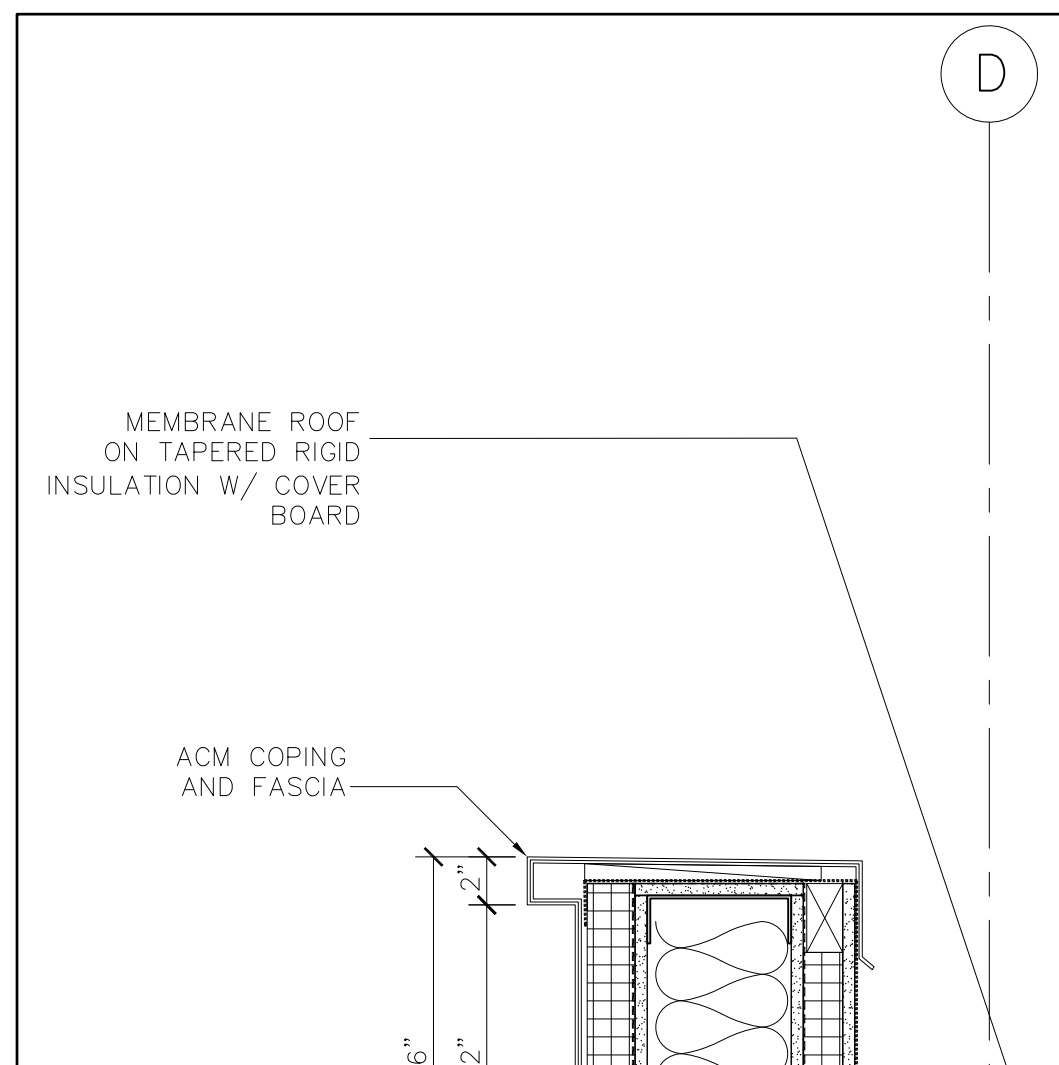
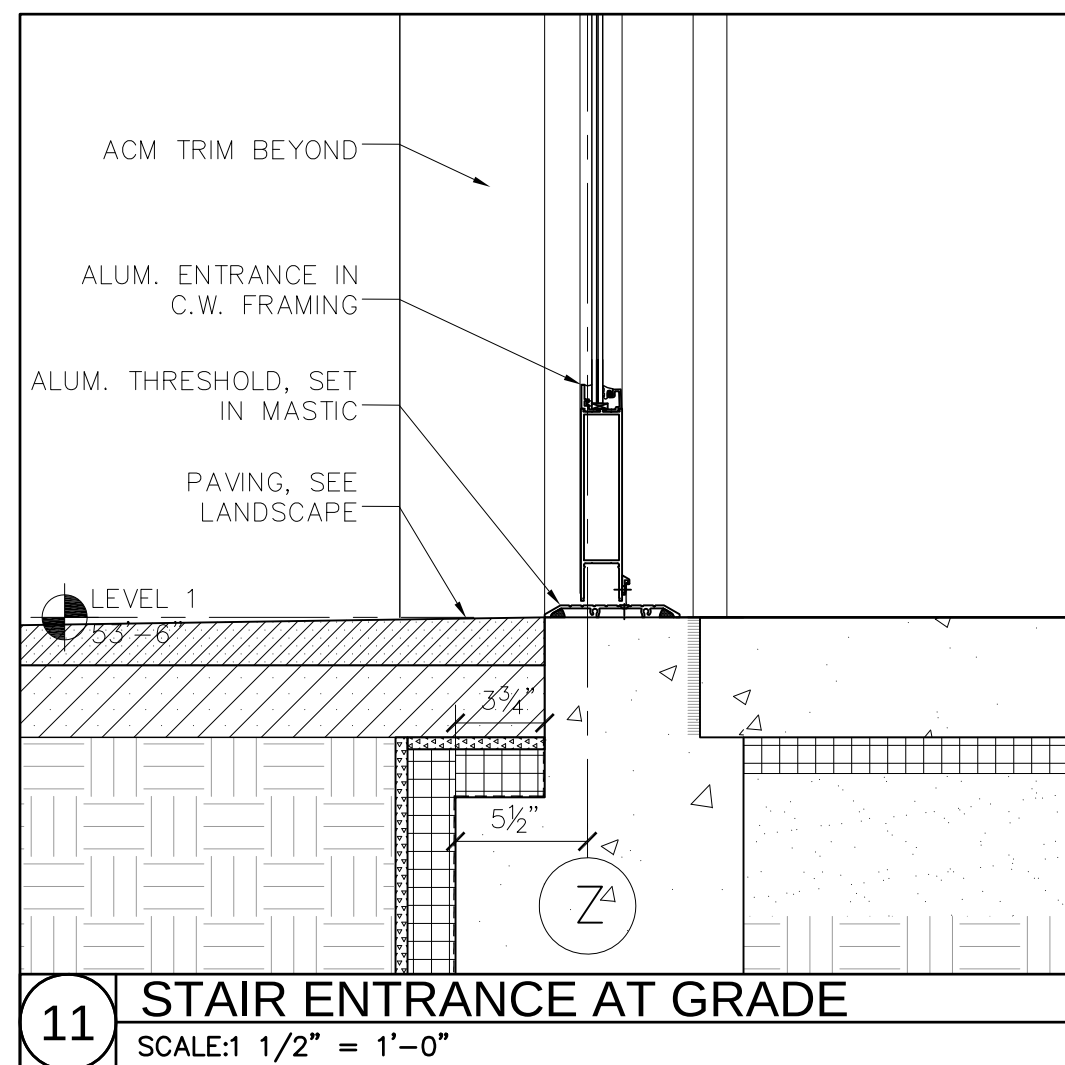
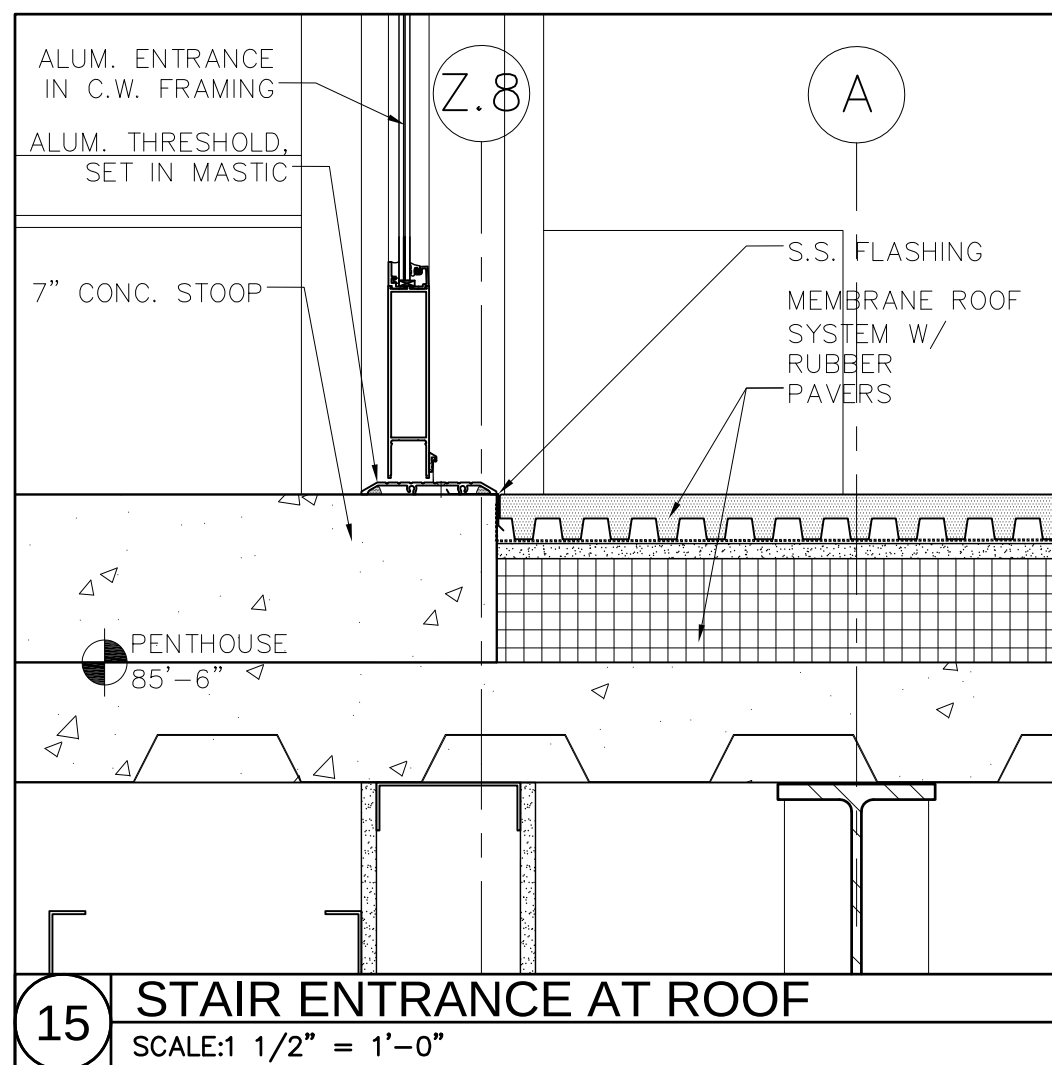
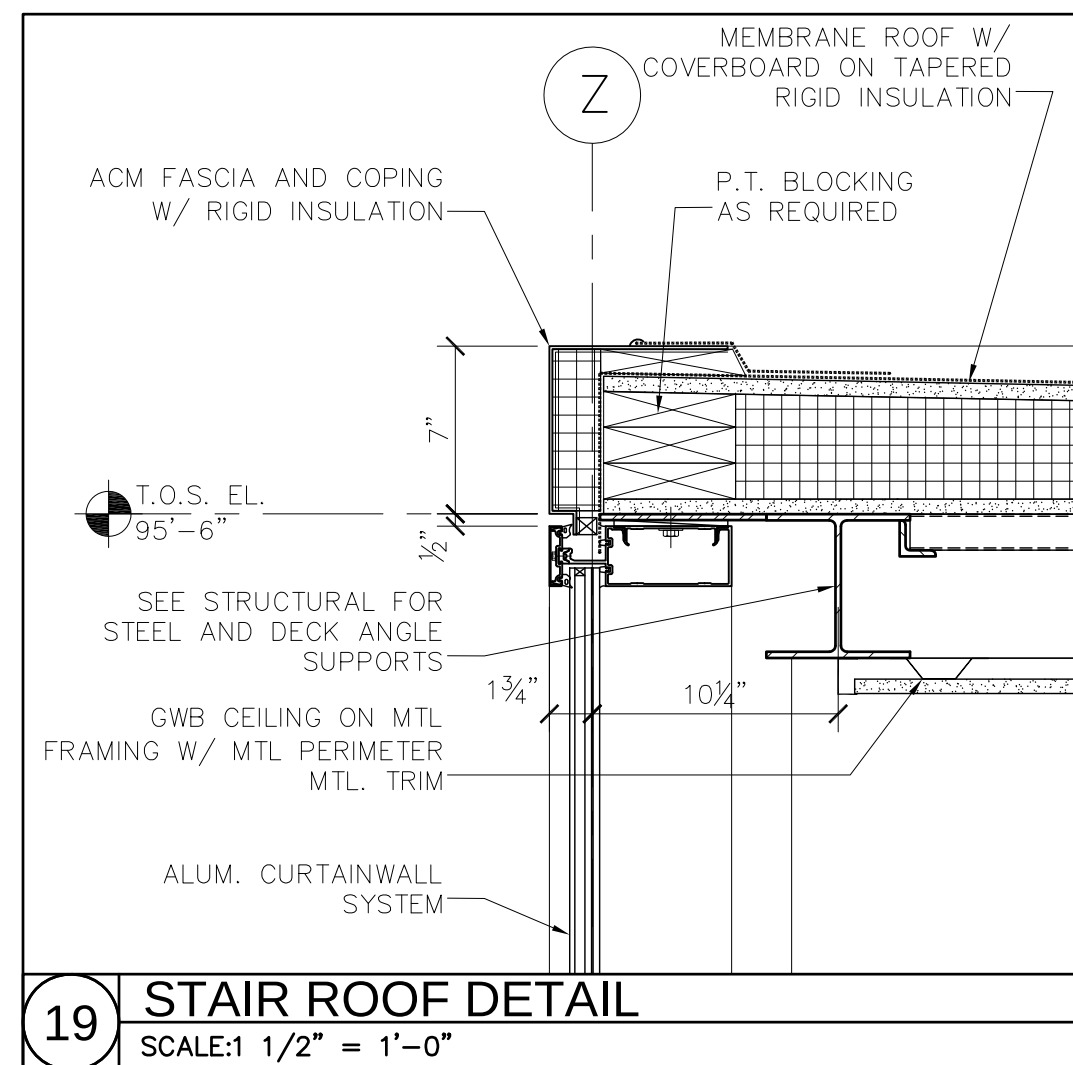
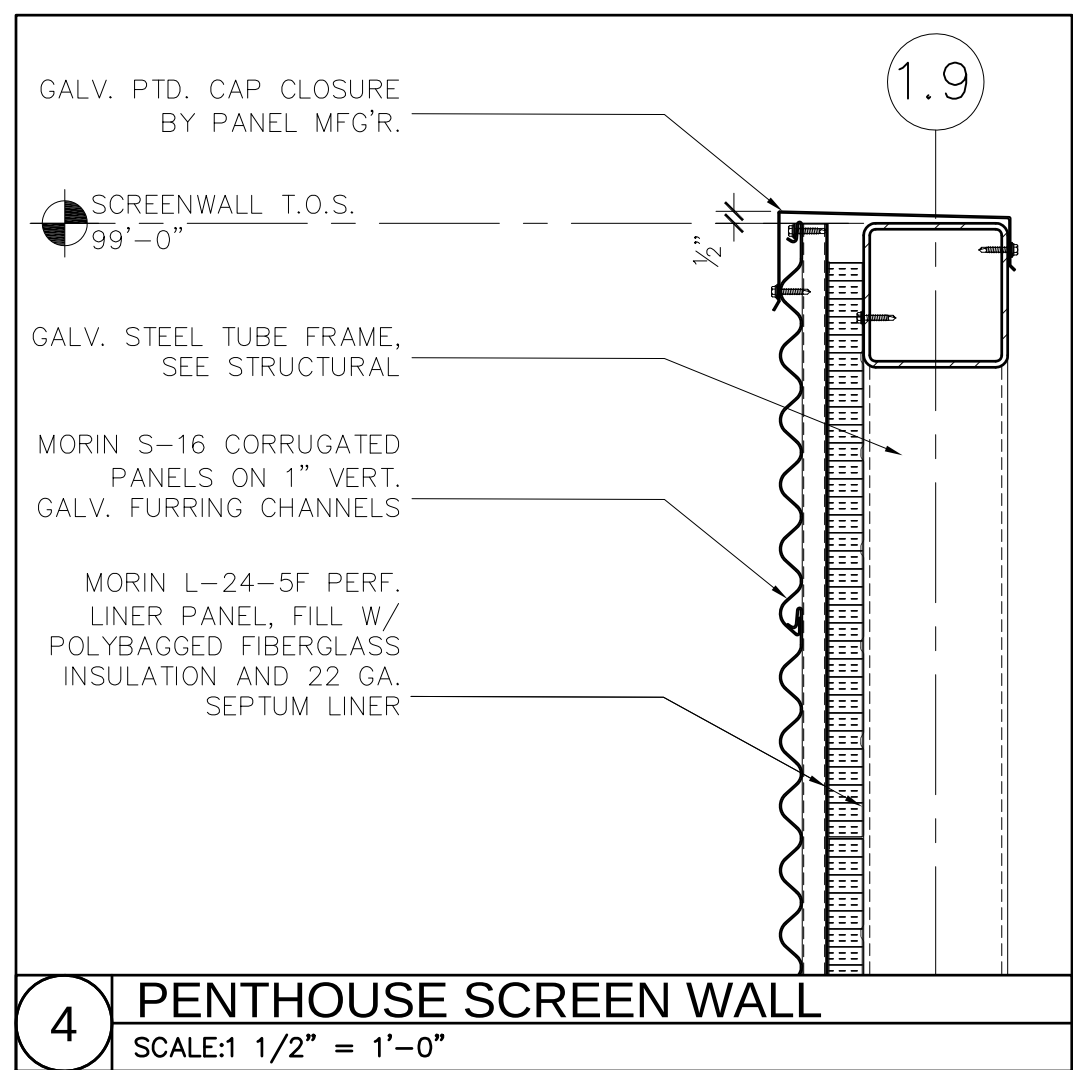
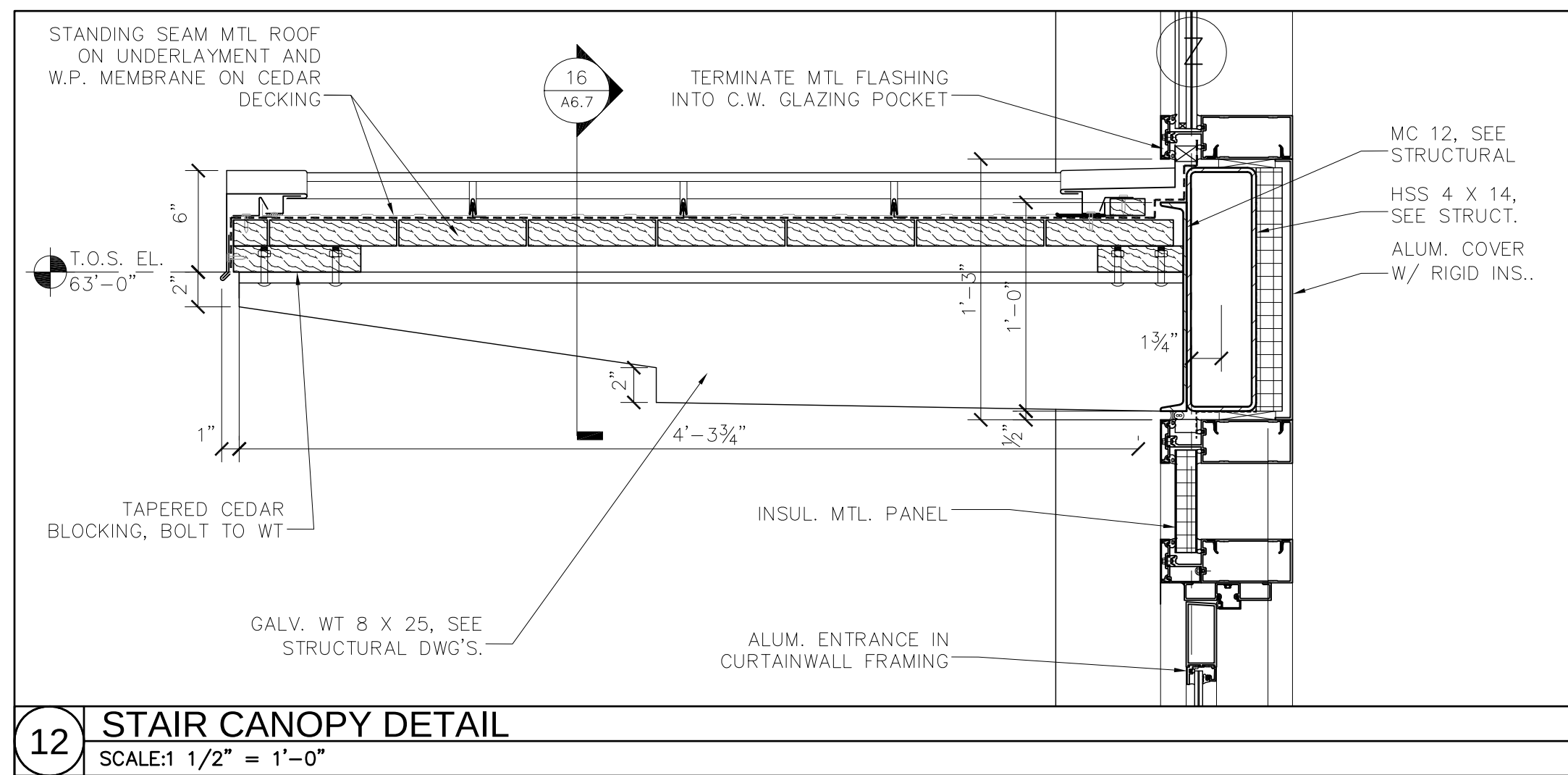
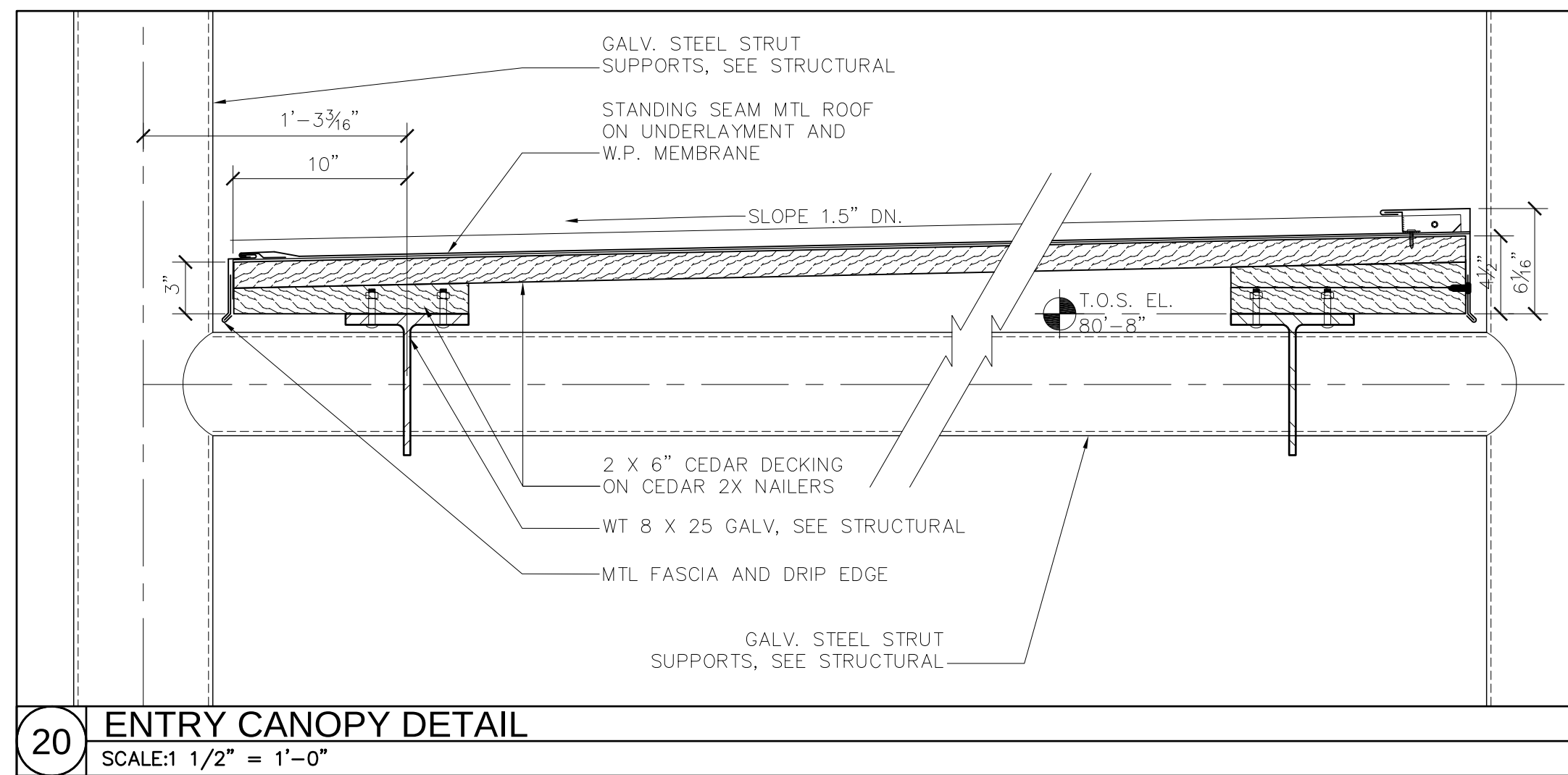
Revisions

SECTION DETAILS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

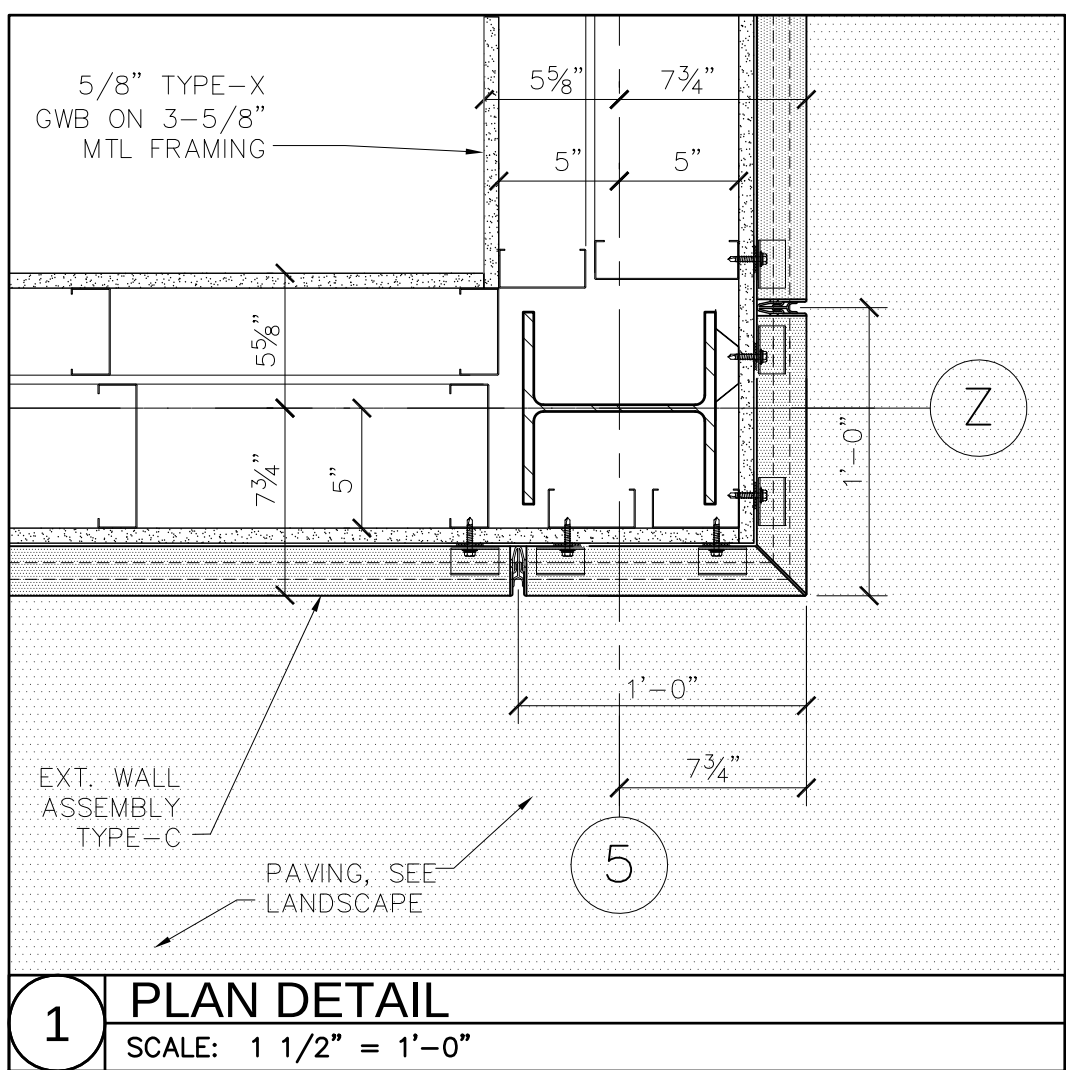
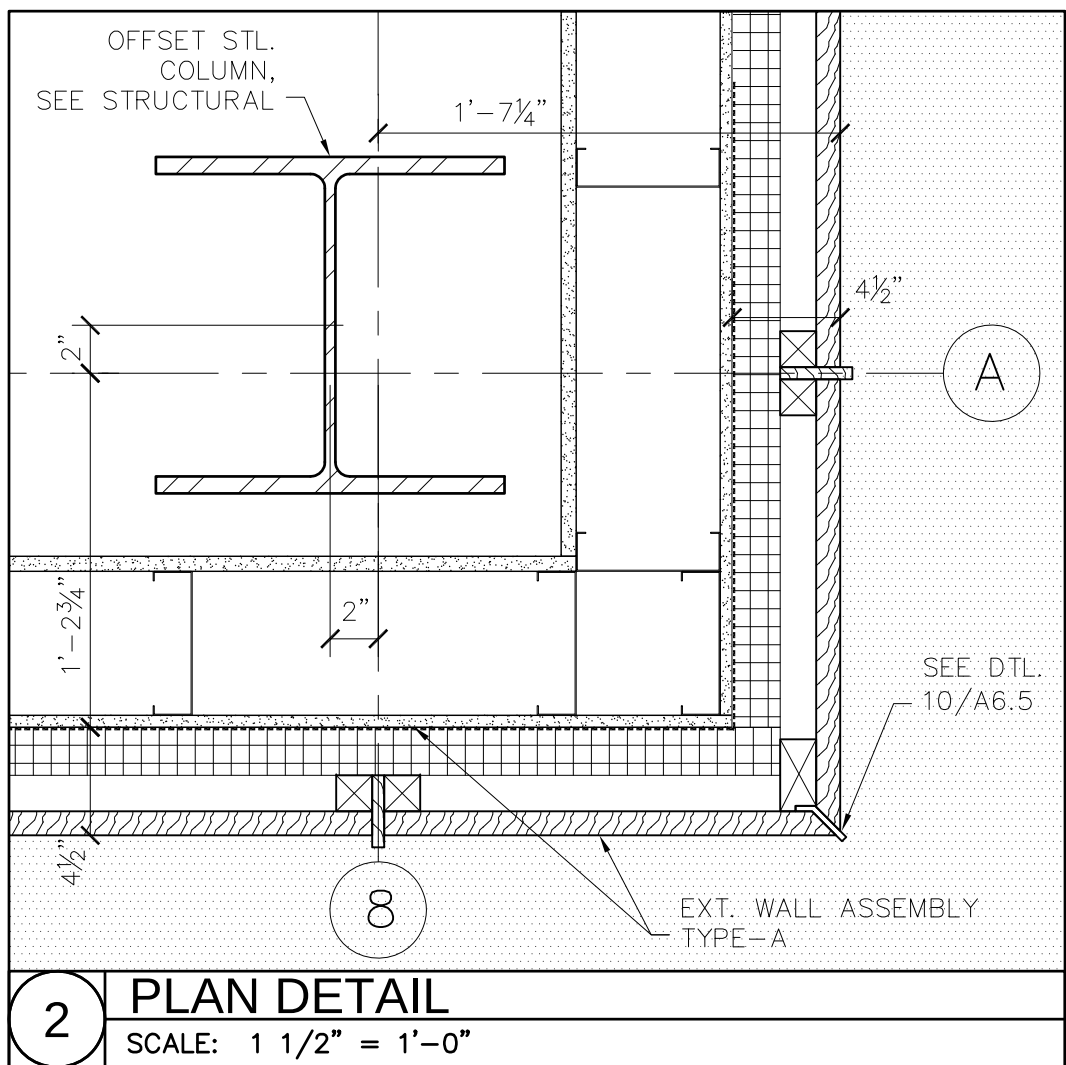
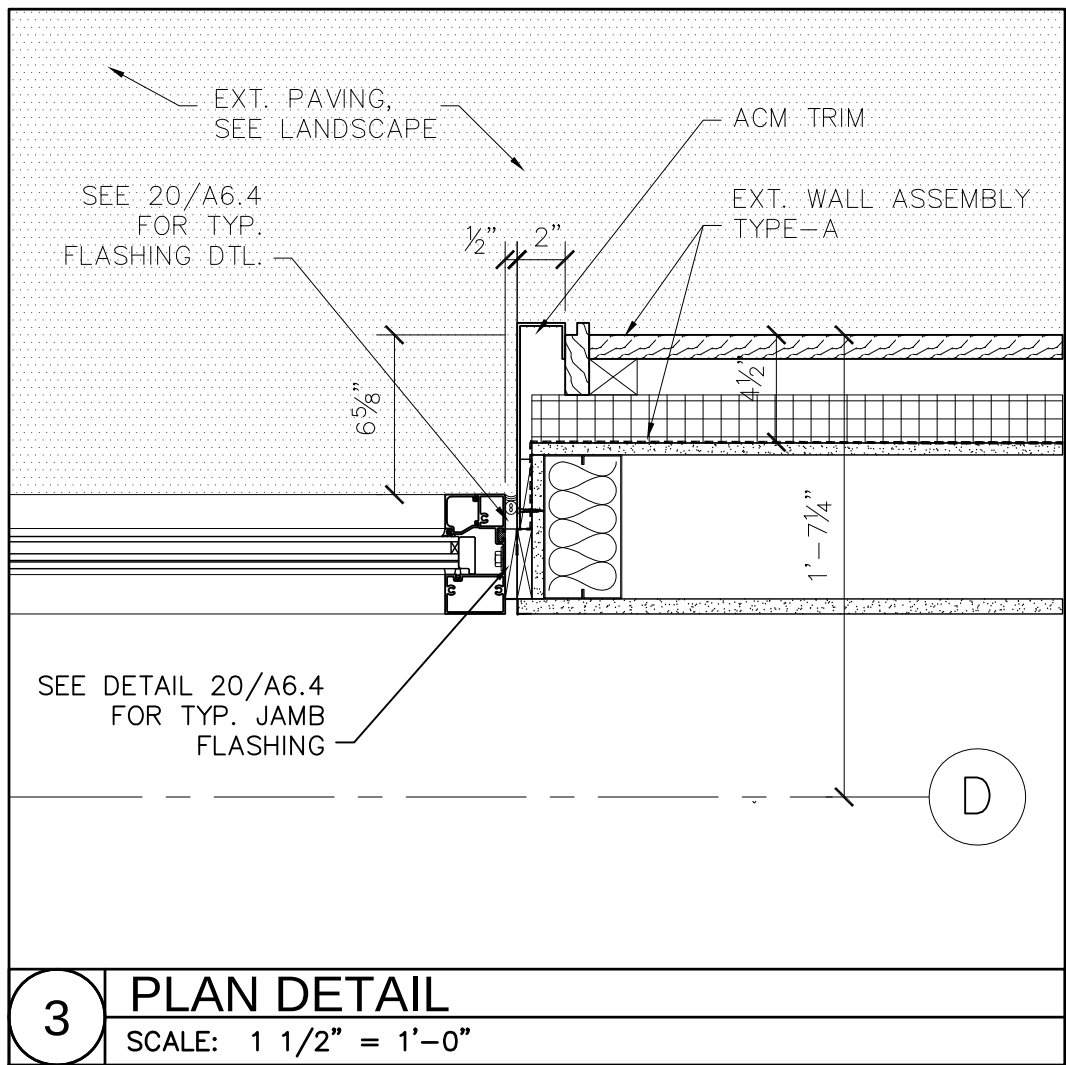
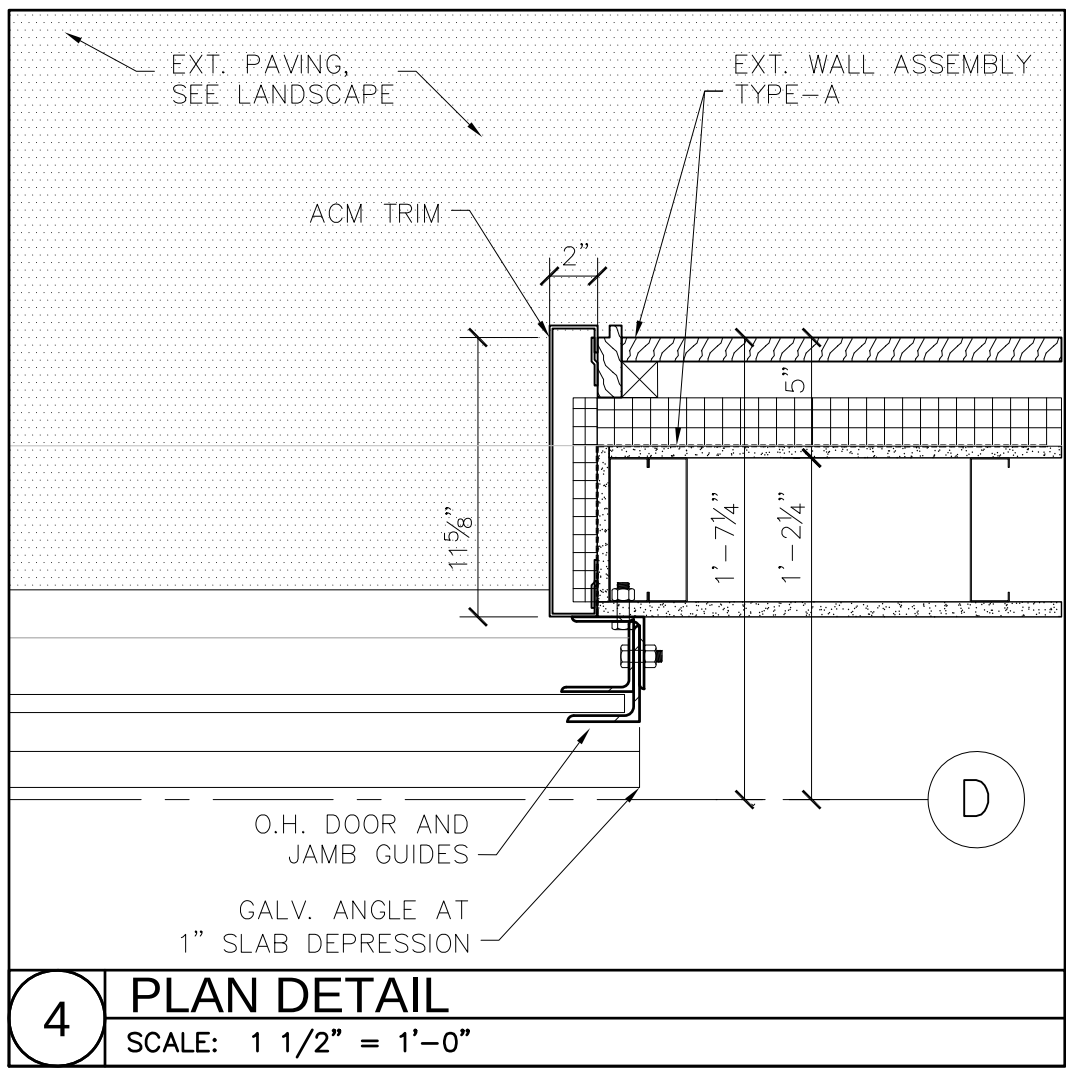
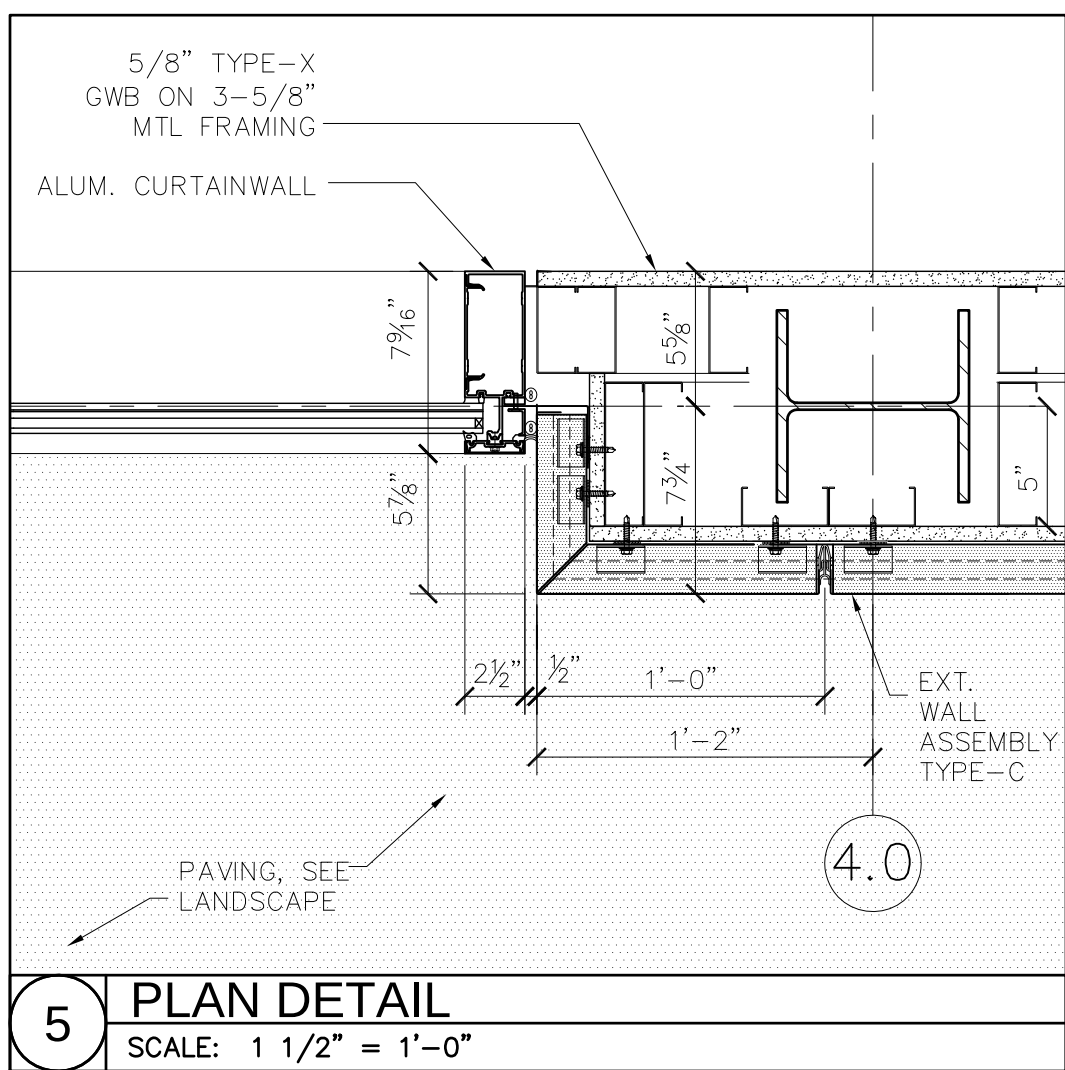
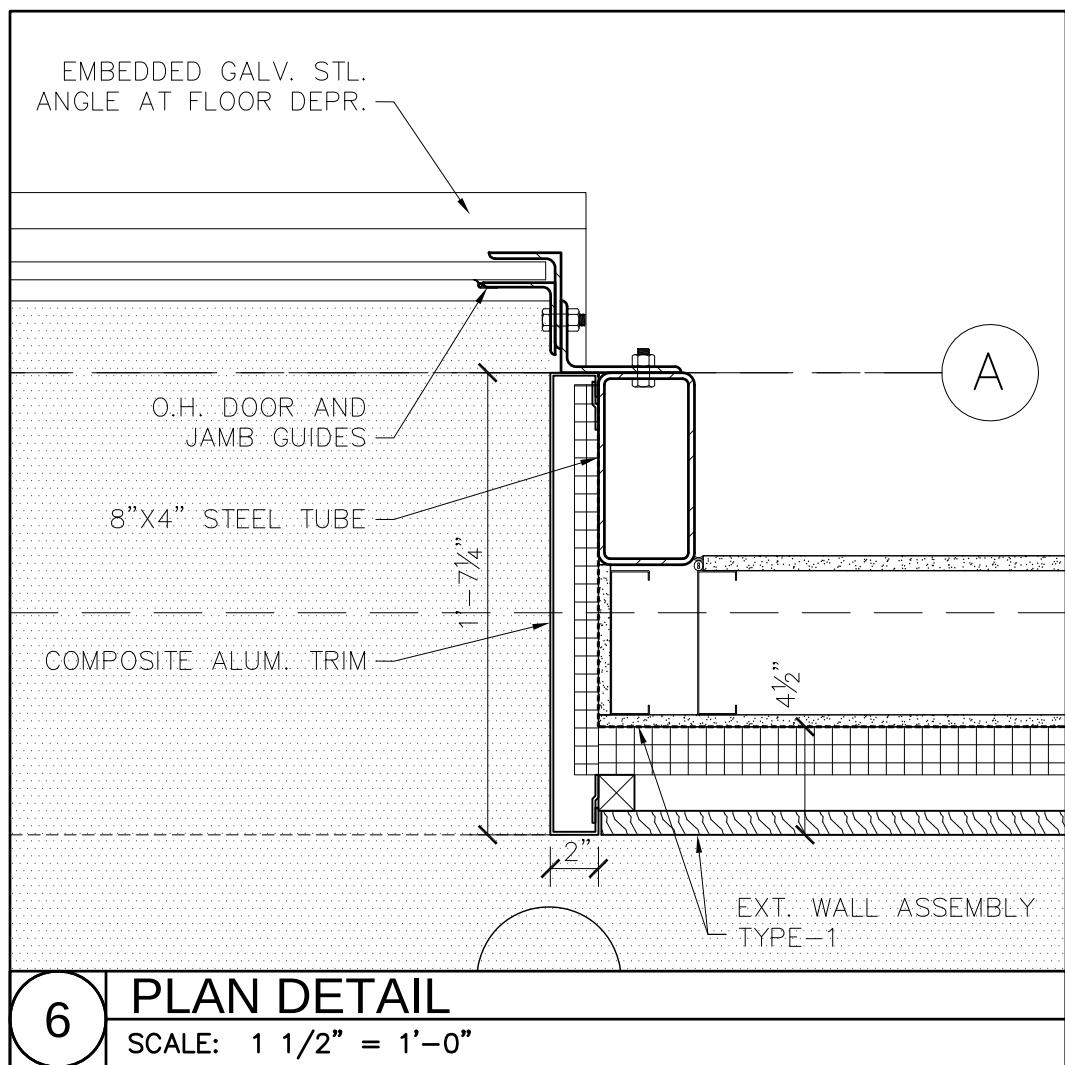
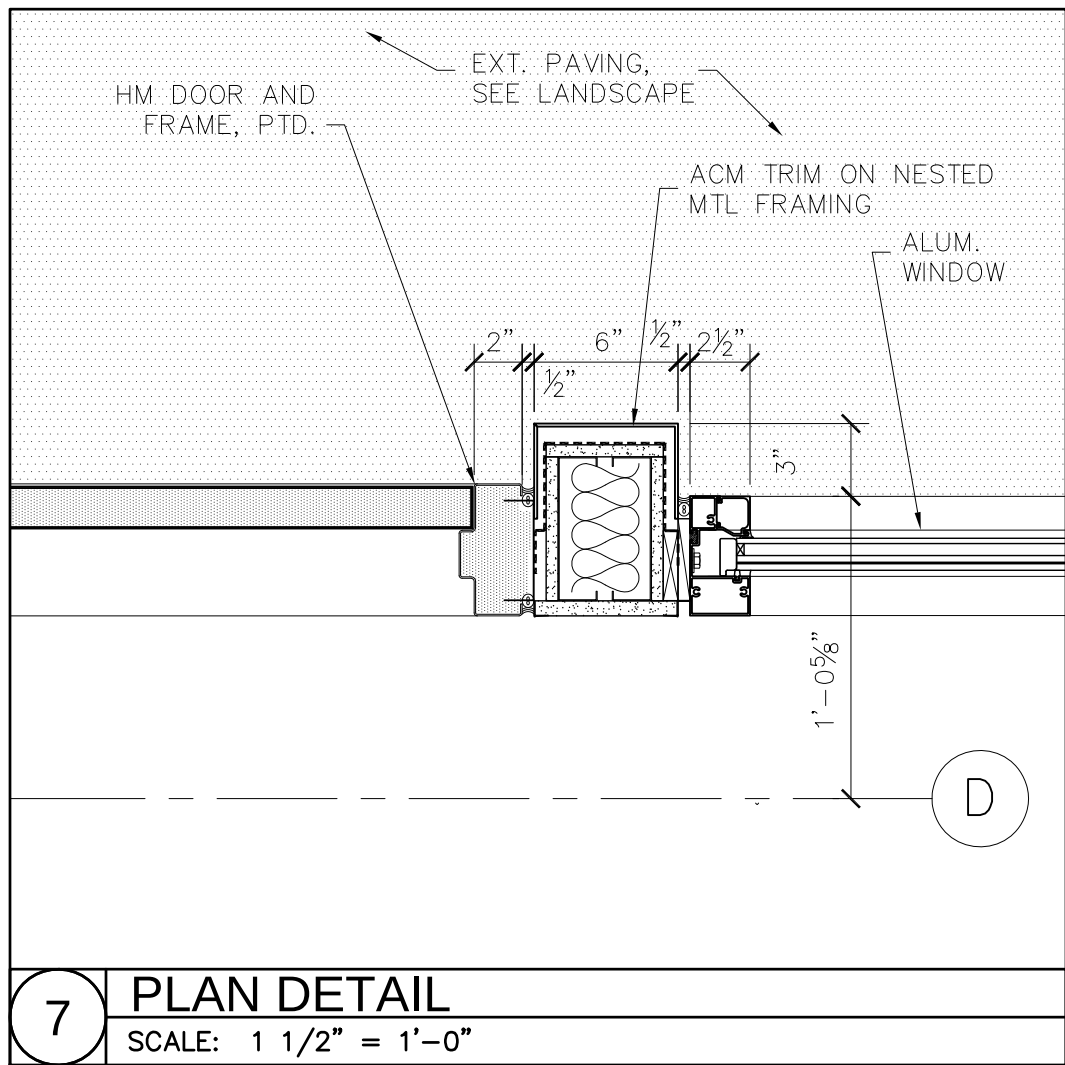
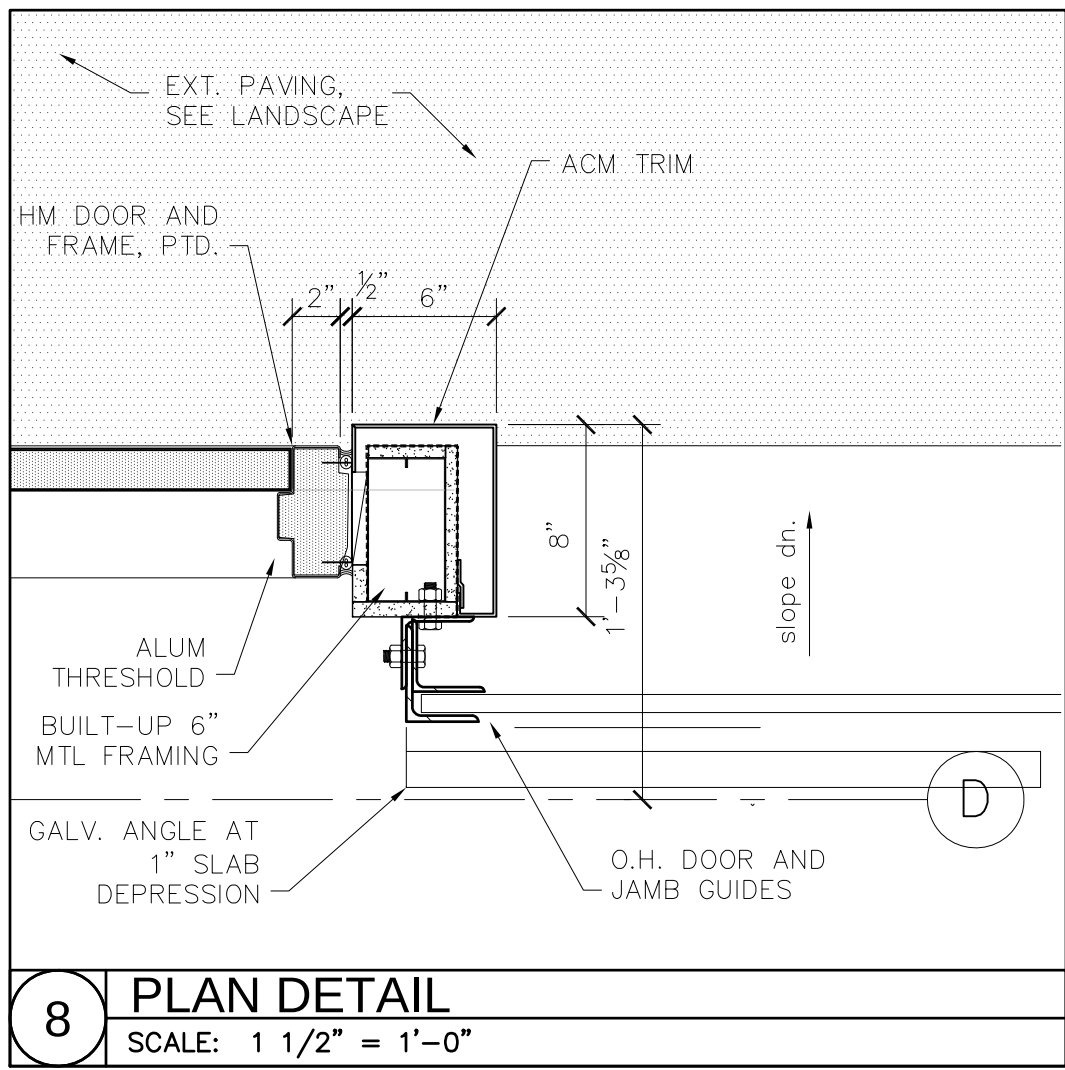
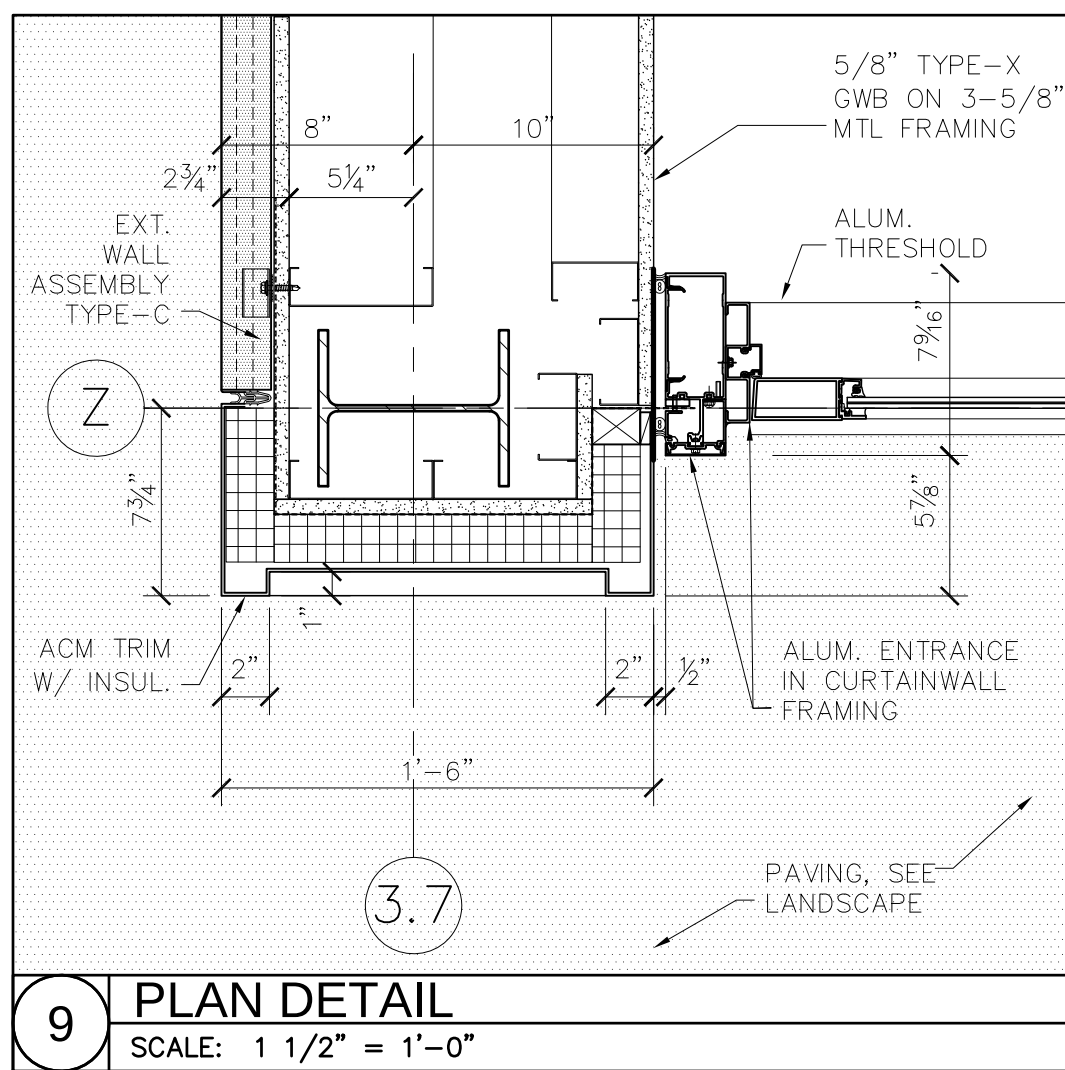
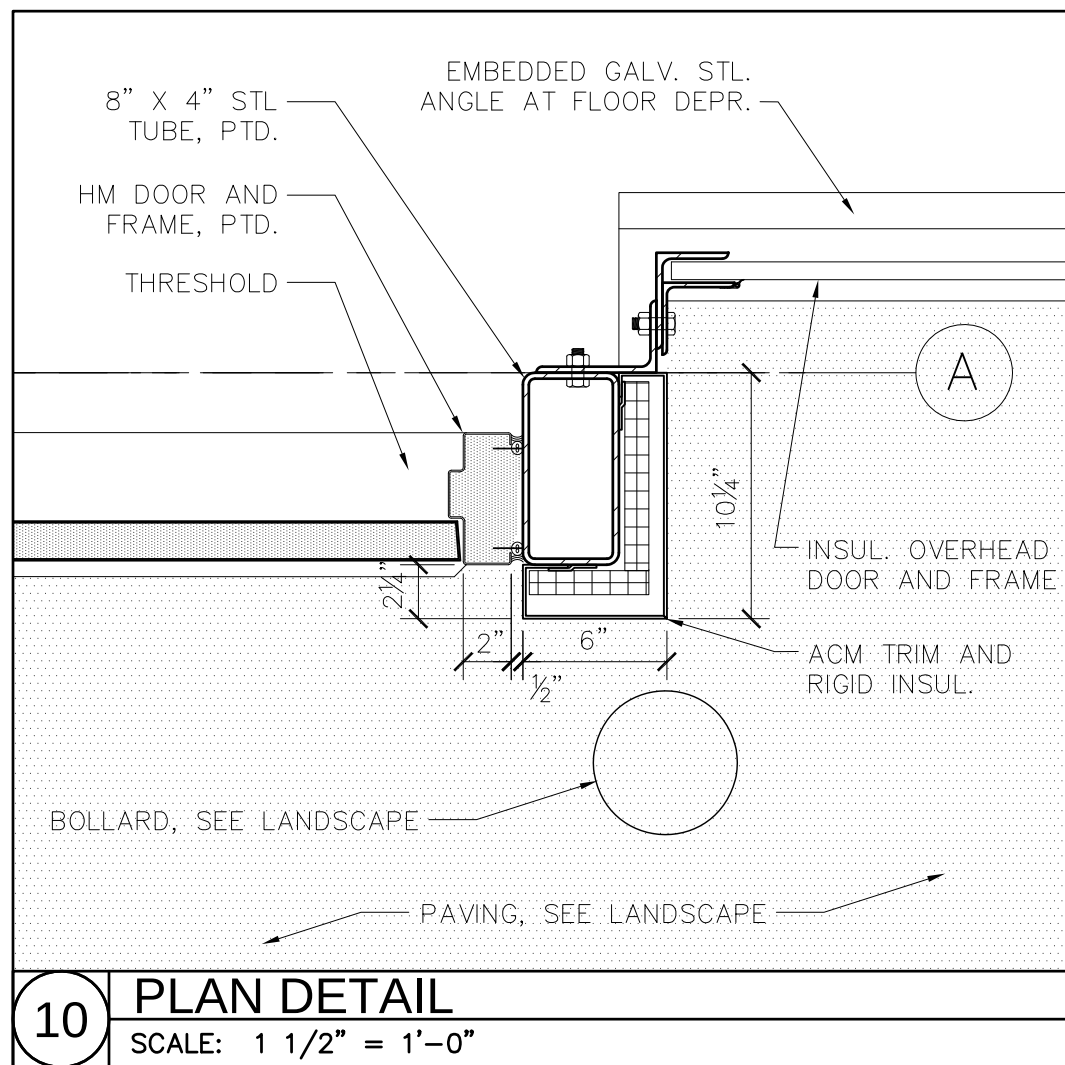
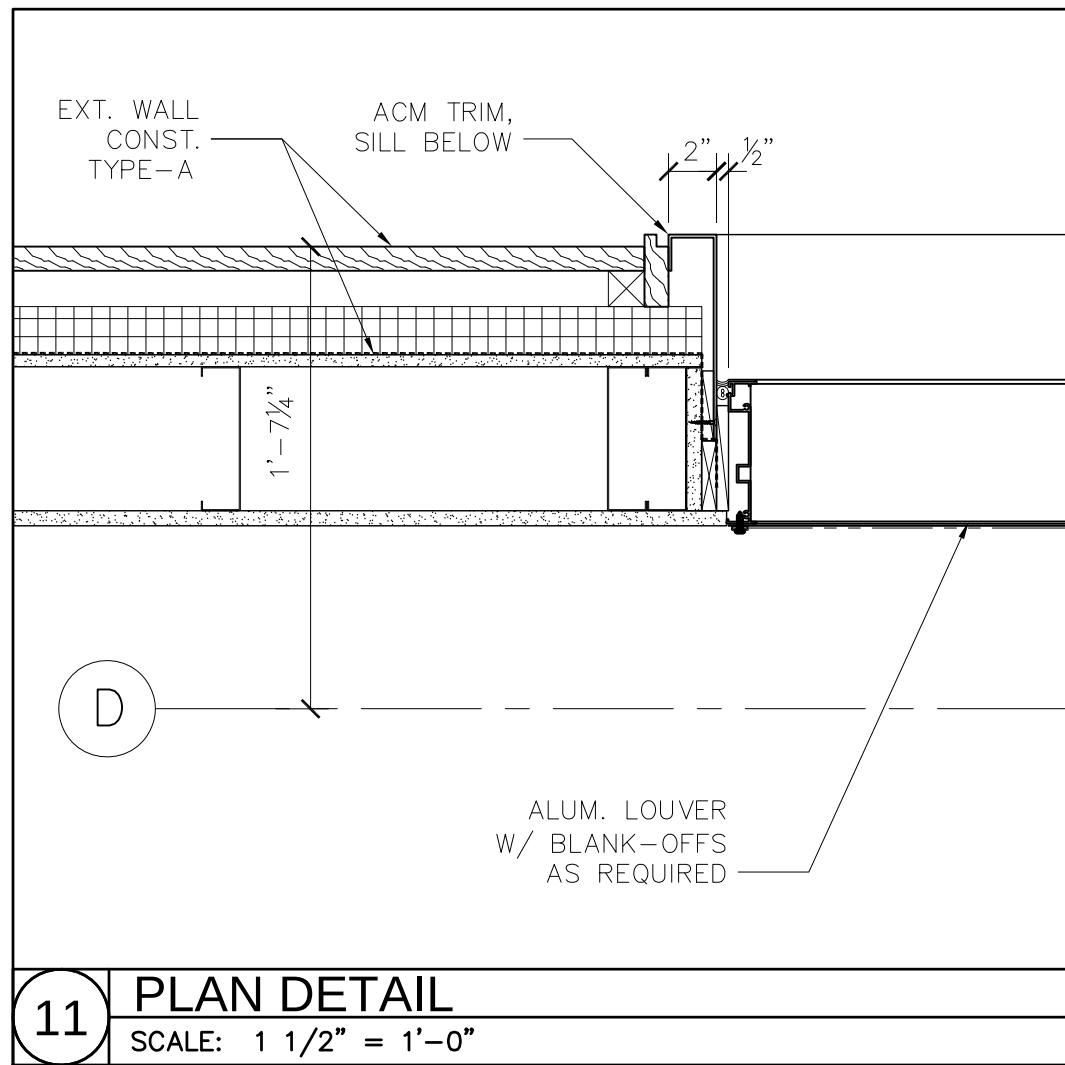
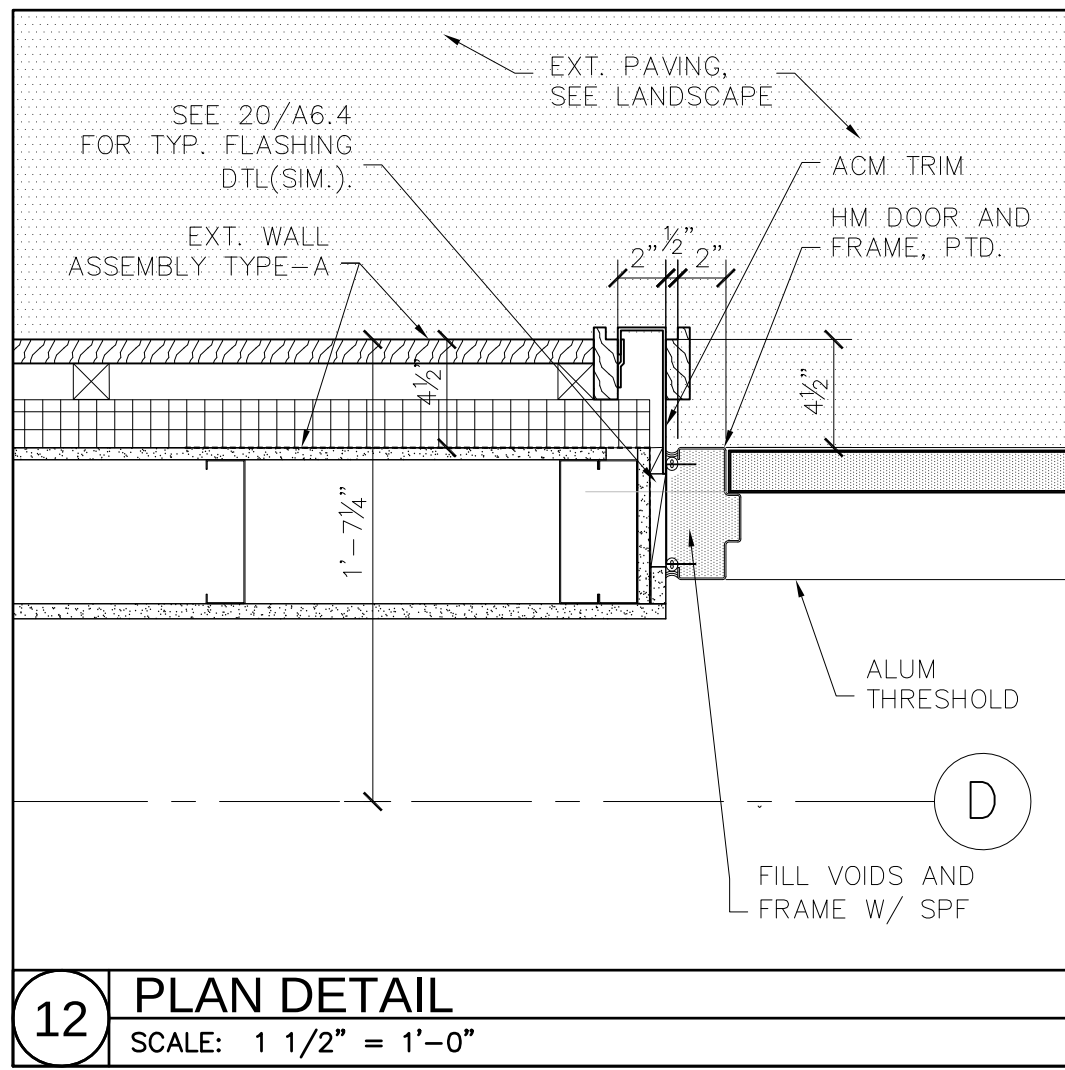
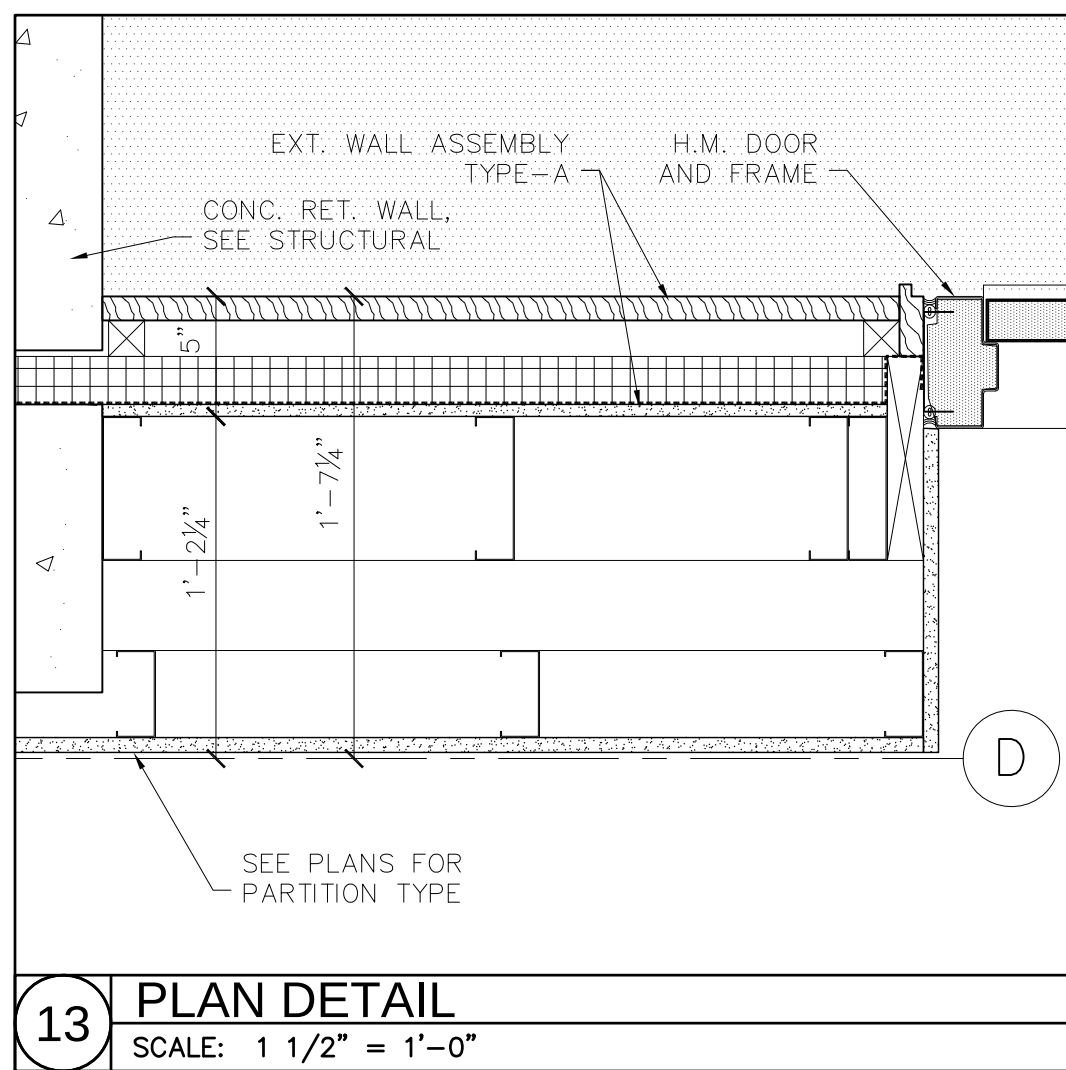
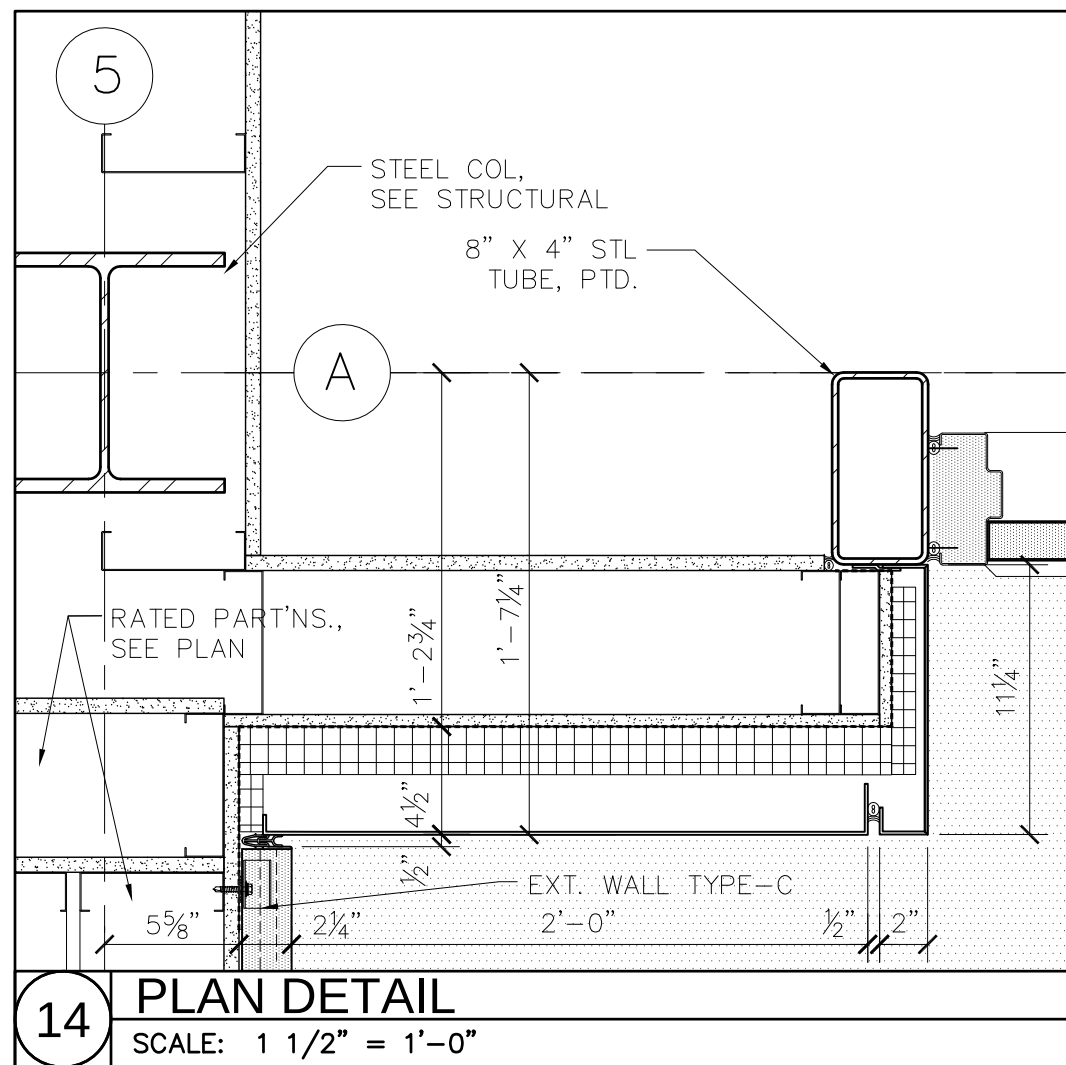
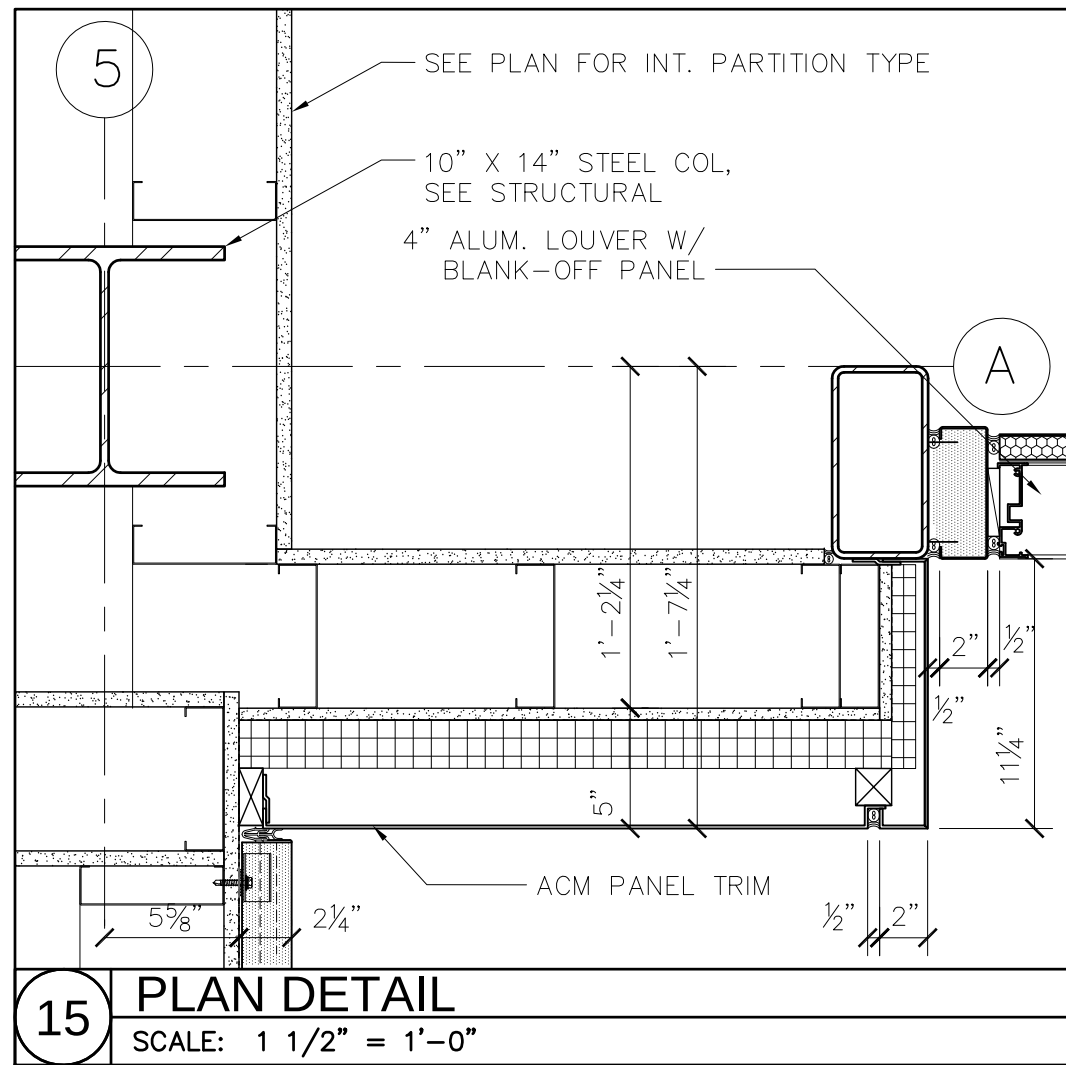
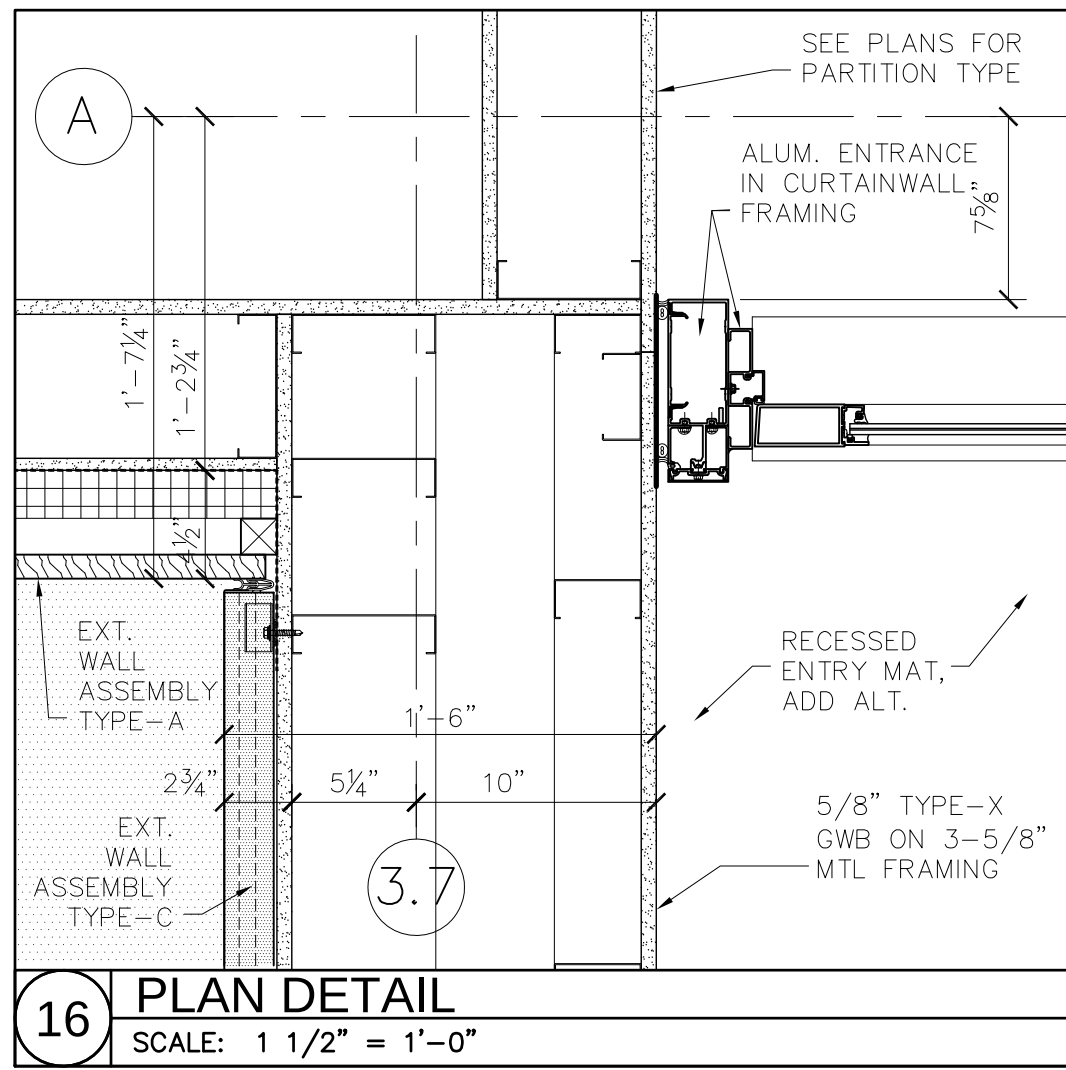
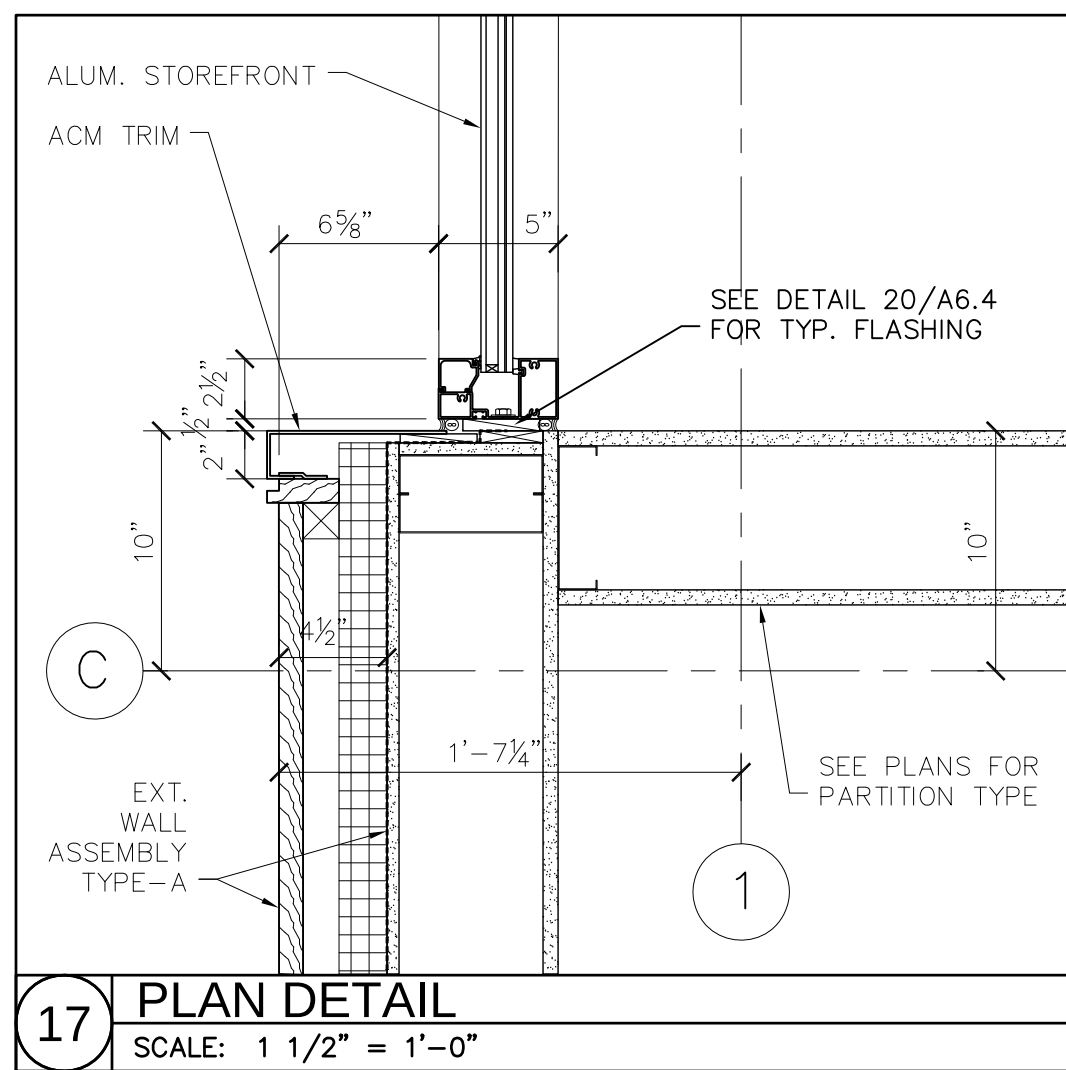
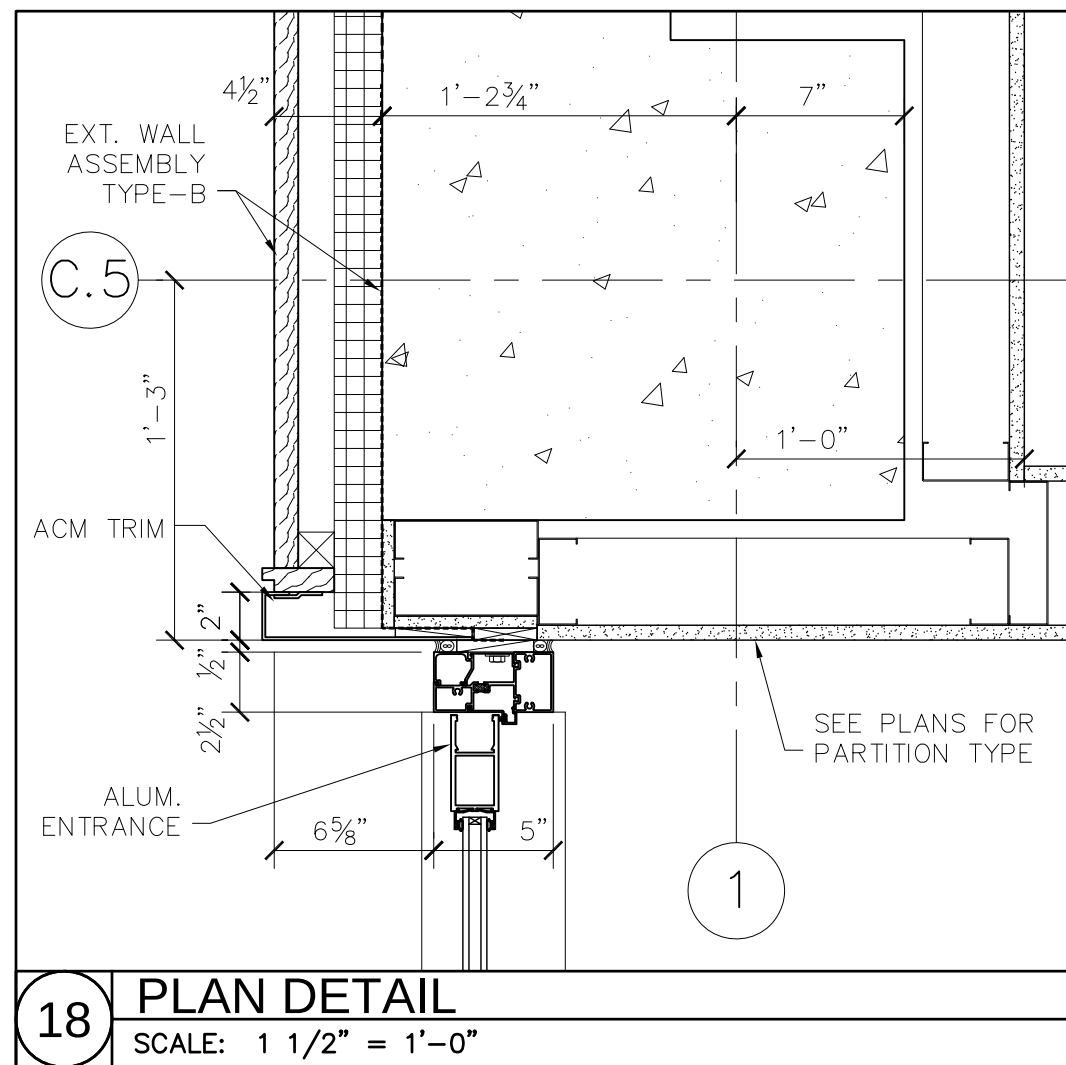
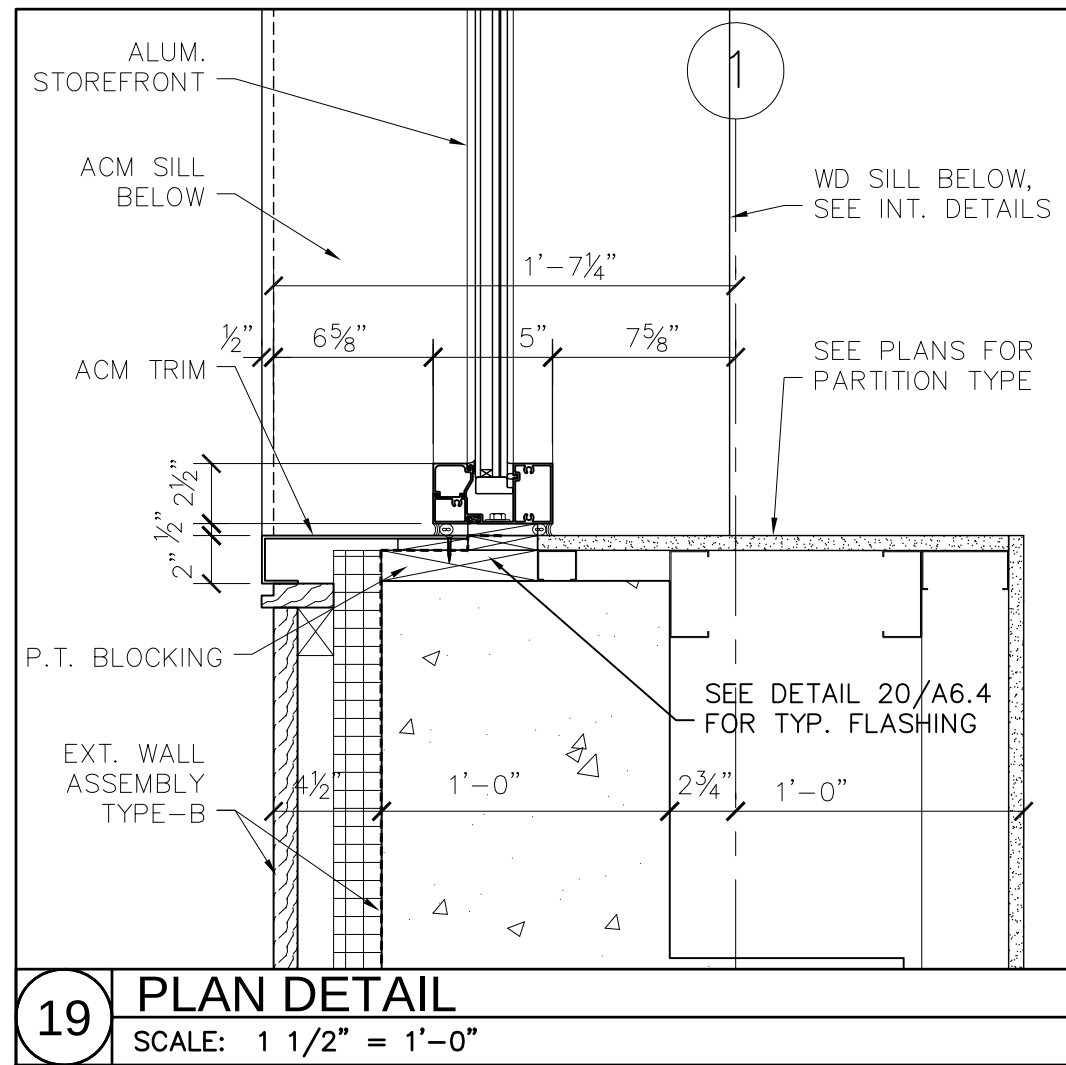
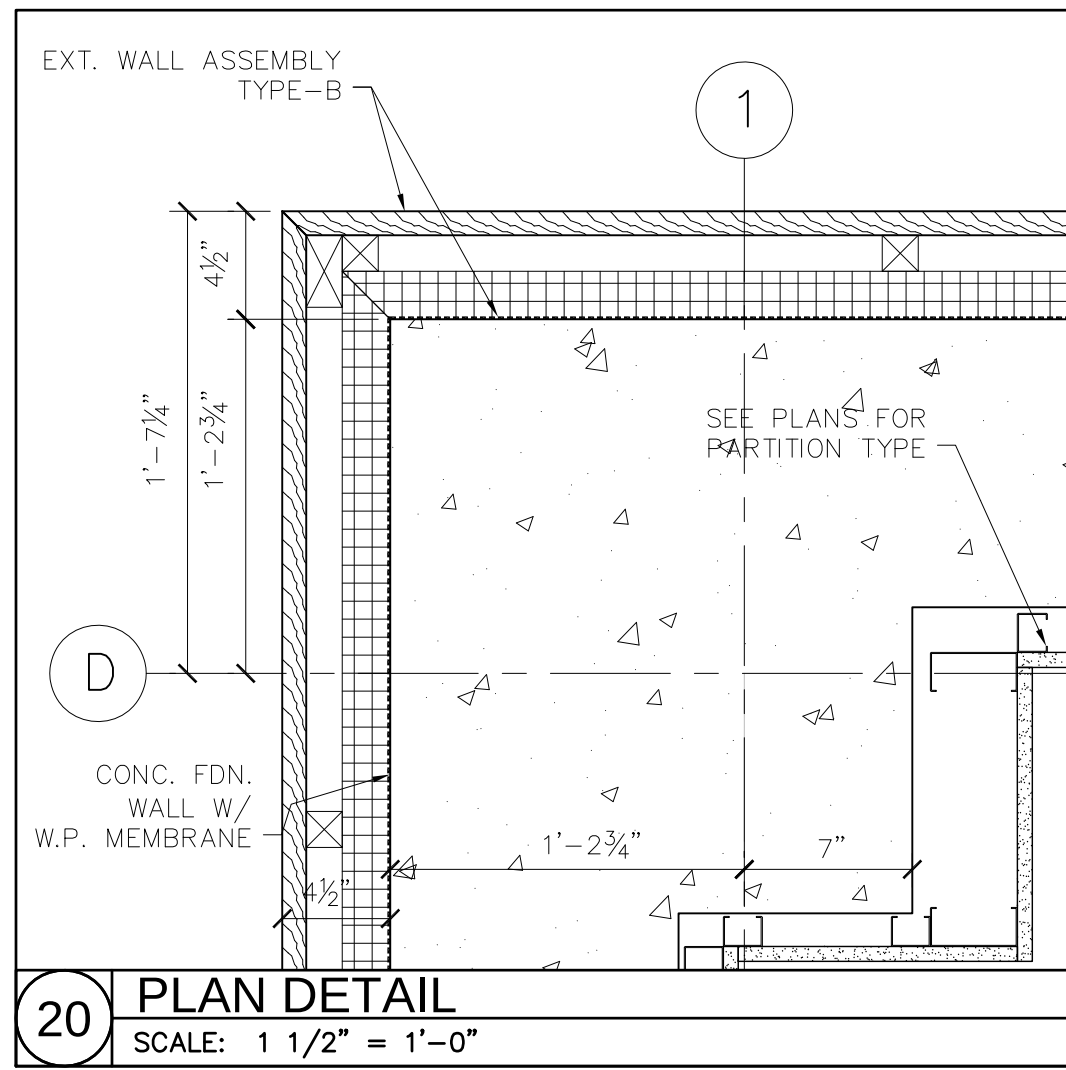
A6.2

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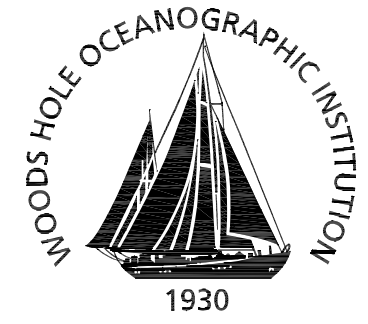
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- Notes:
- EXTERIOR WALL ASSEMBLY TYPES
- 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
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 - 2" INSULATED METAL PANELS ON 5/8" TYPE-X GWB SHEATHING ON 6" METAL FRAMING.
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Job Number 31003
Drawing By TAK
Checked By EM
Filename 31003-A6.3 PLAN DETAILS
Date 15 APRIL 2011

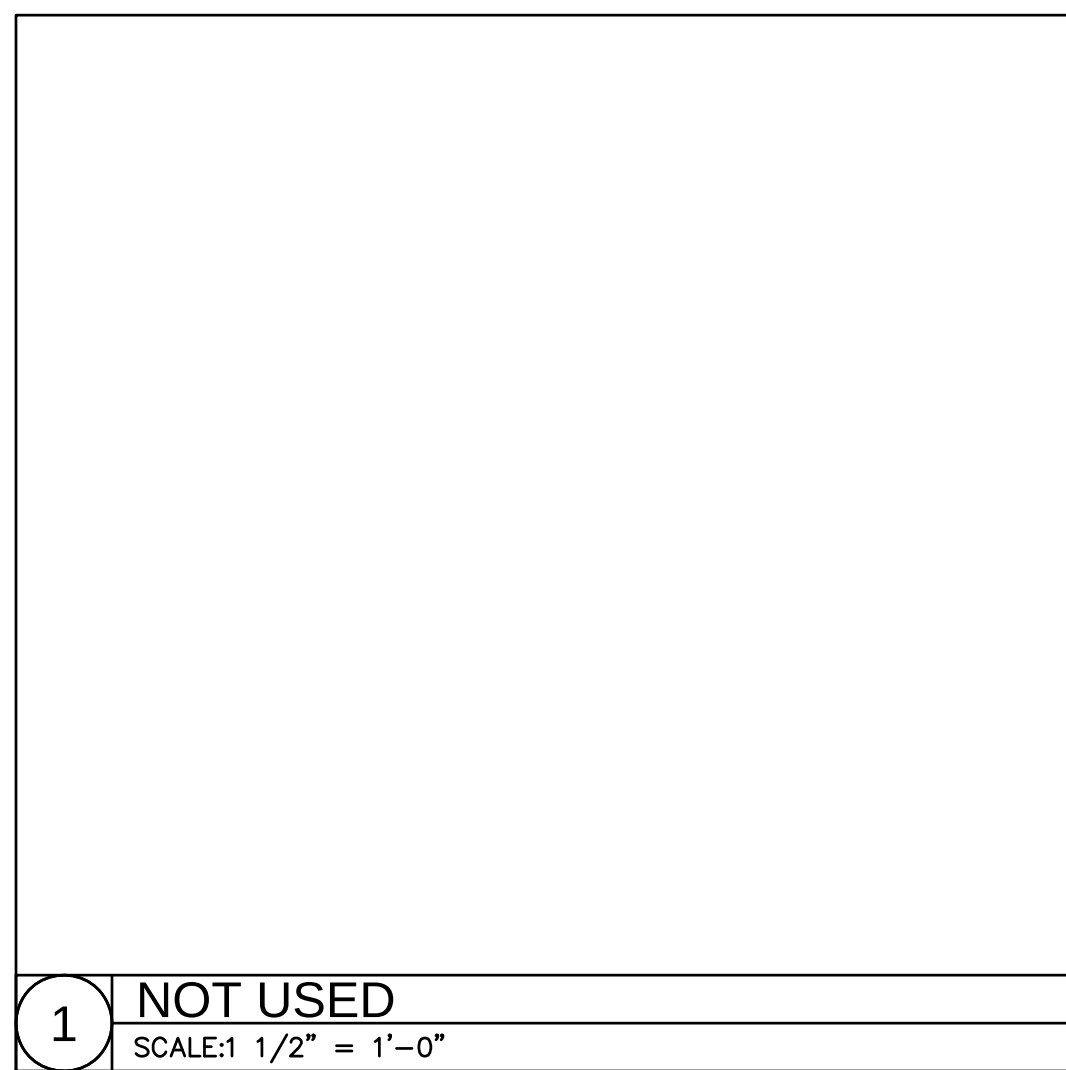
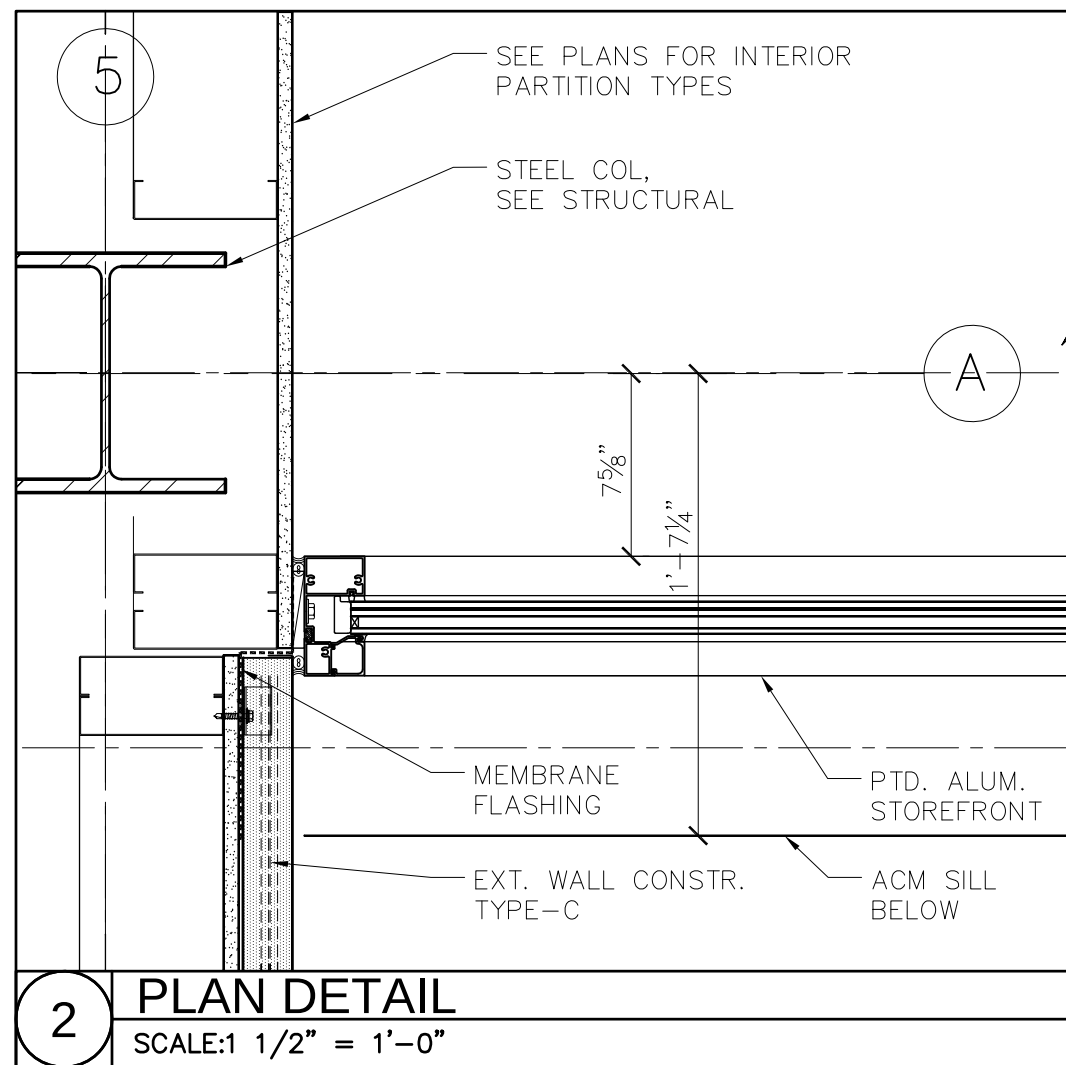
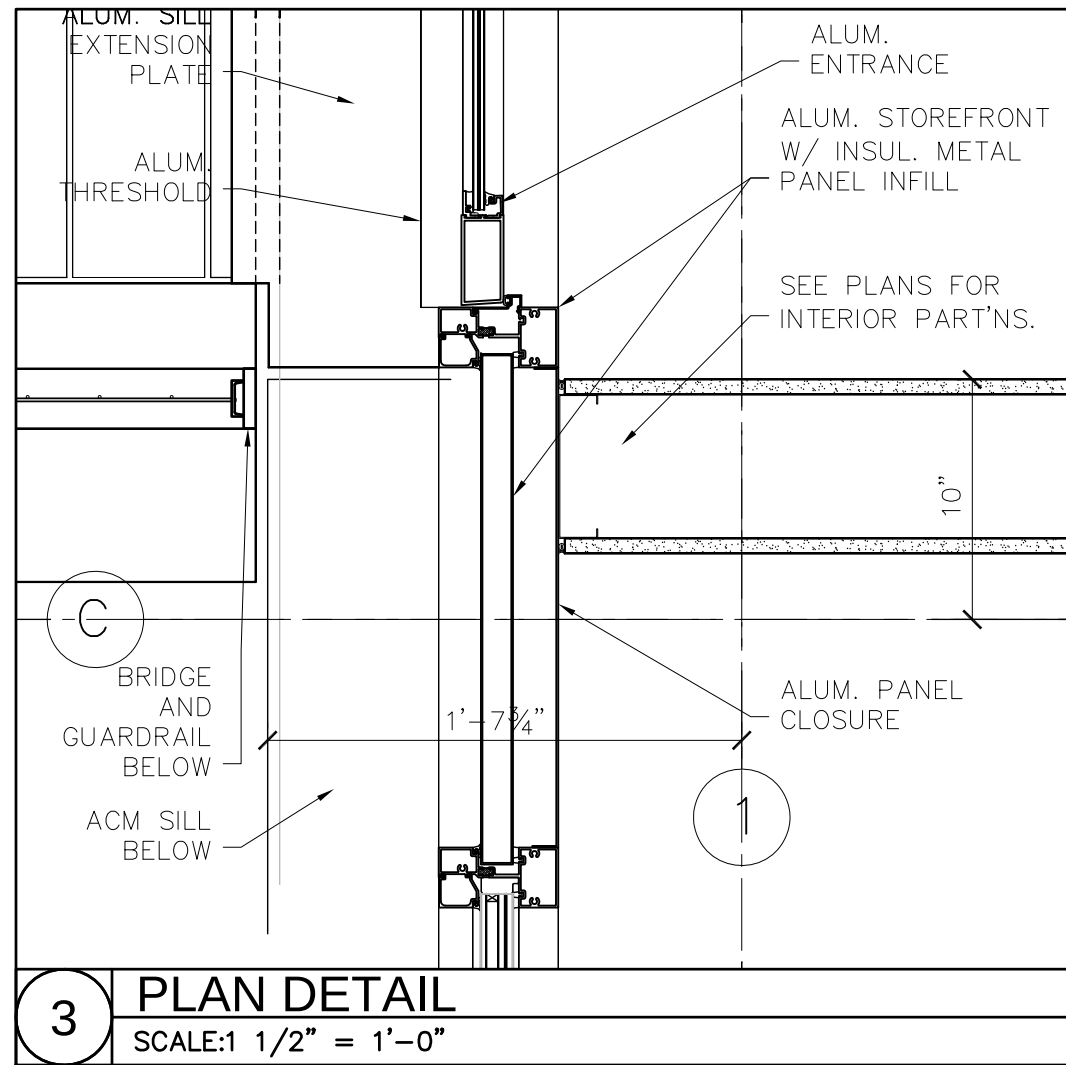
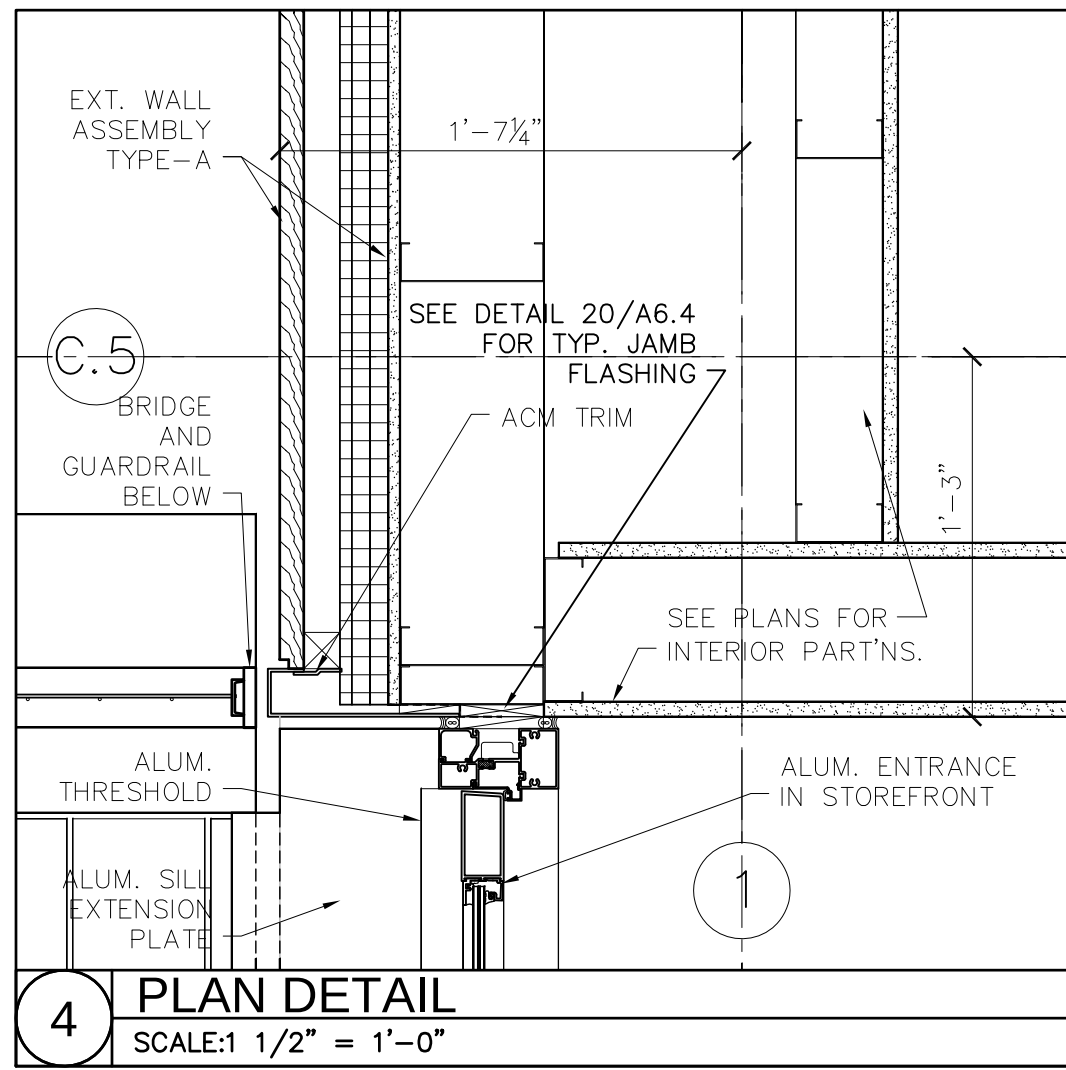
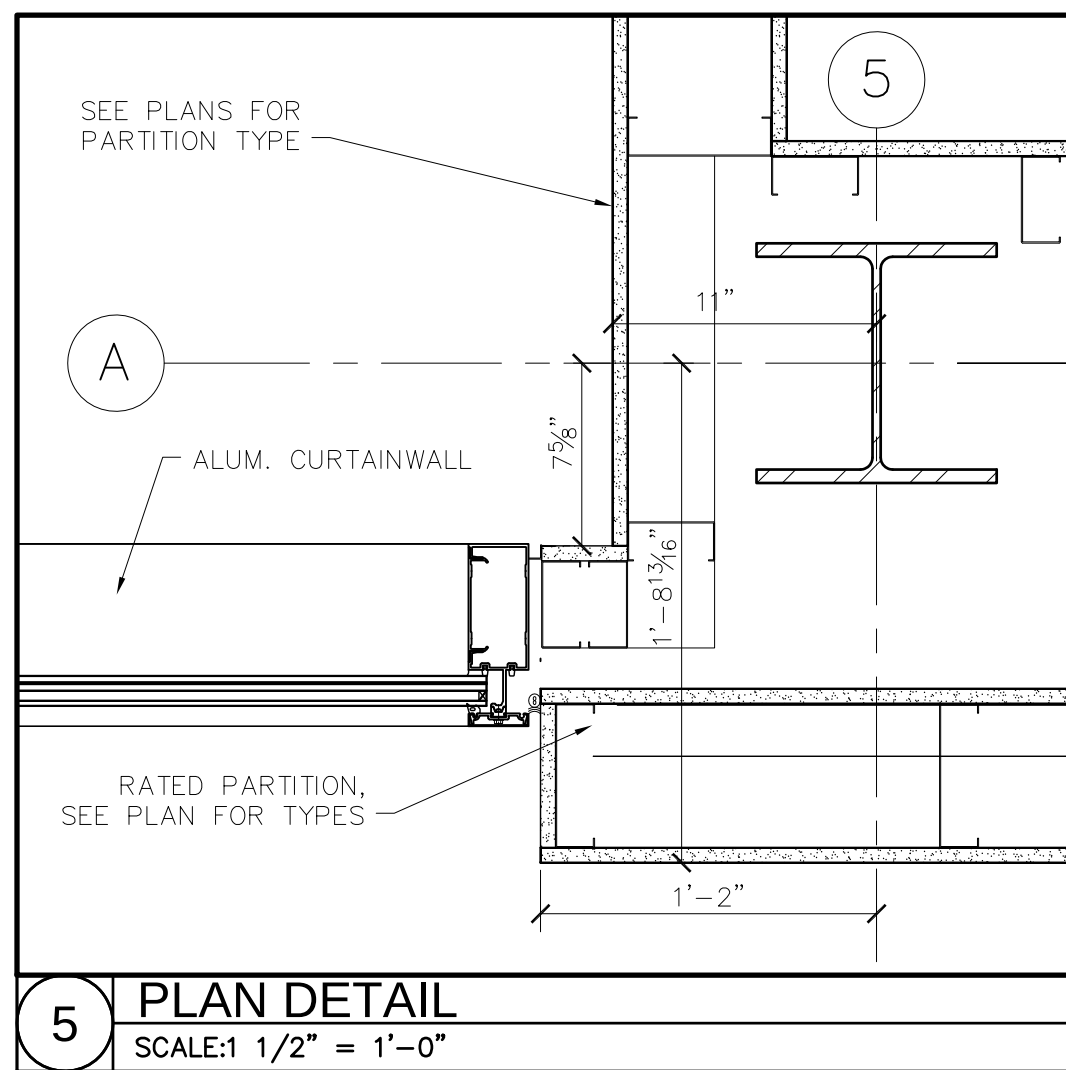
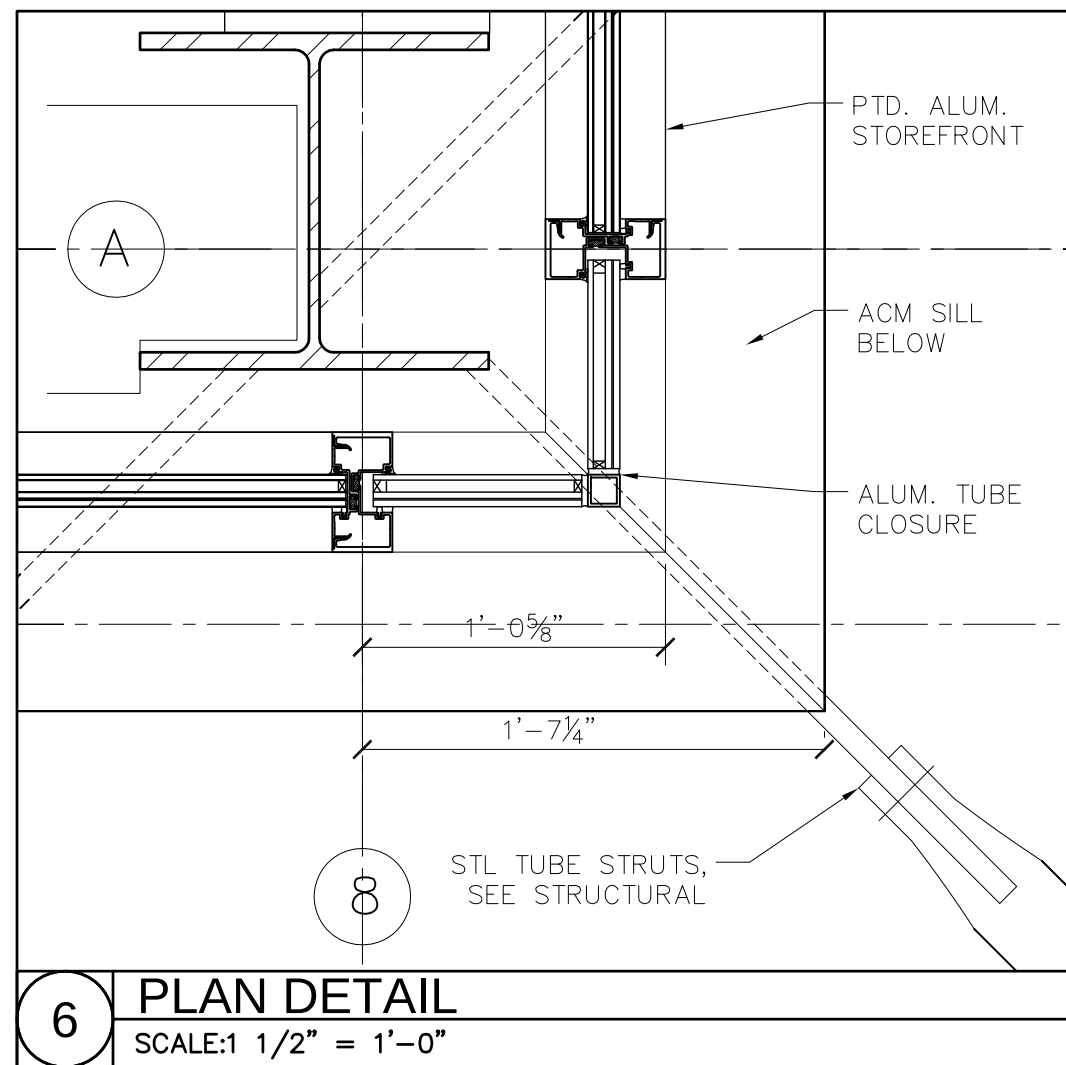
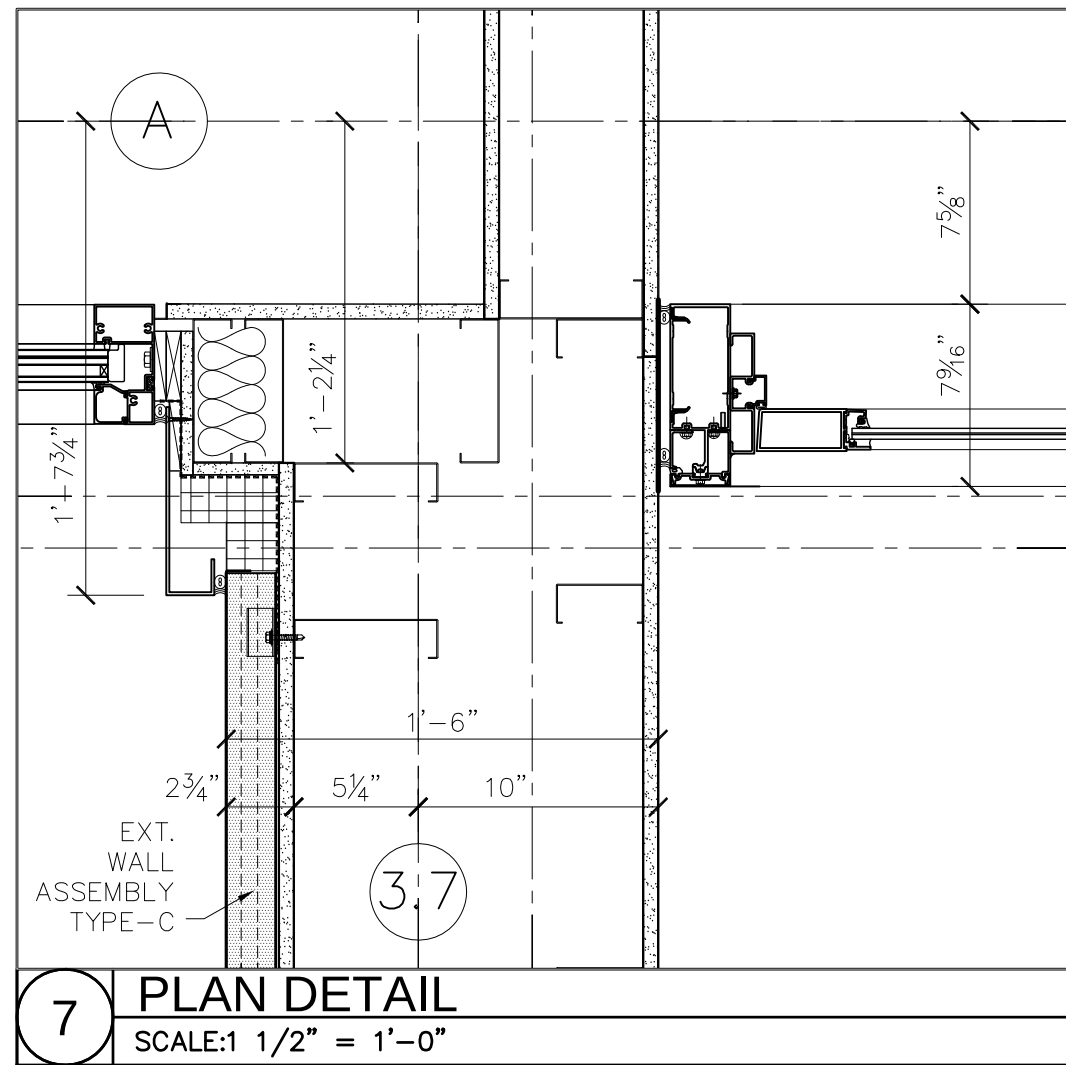
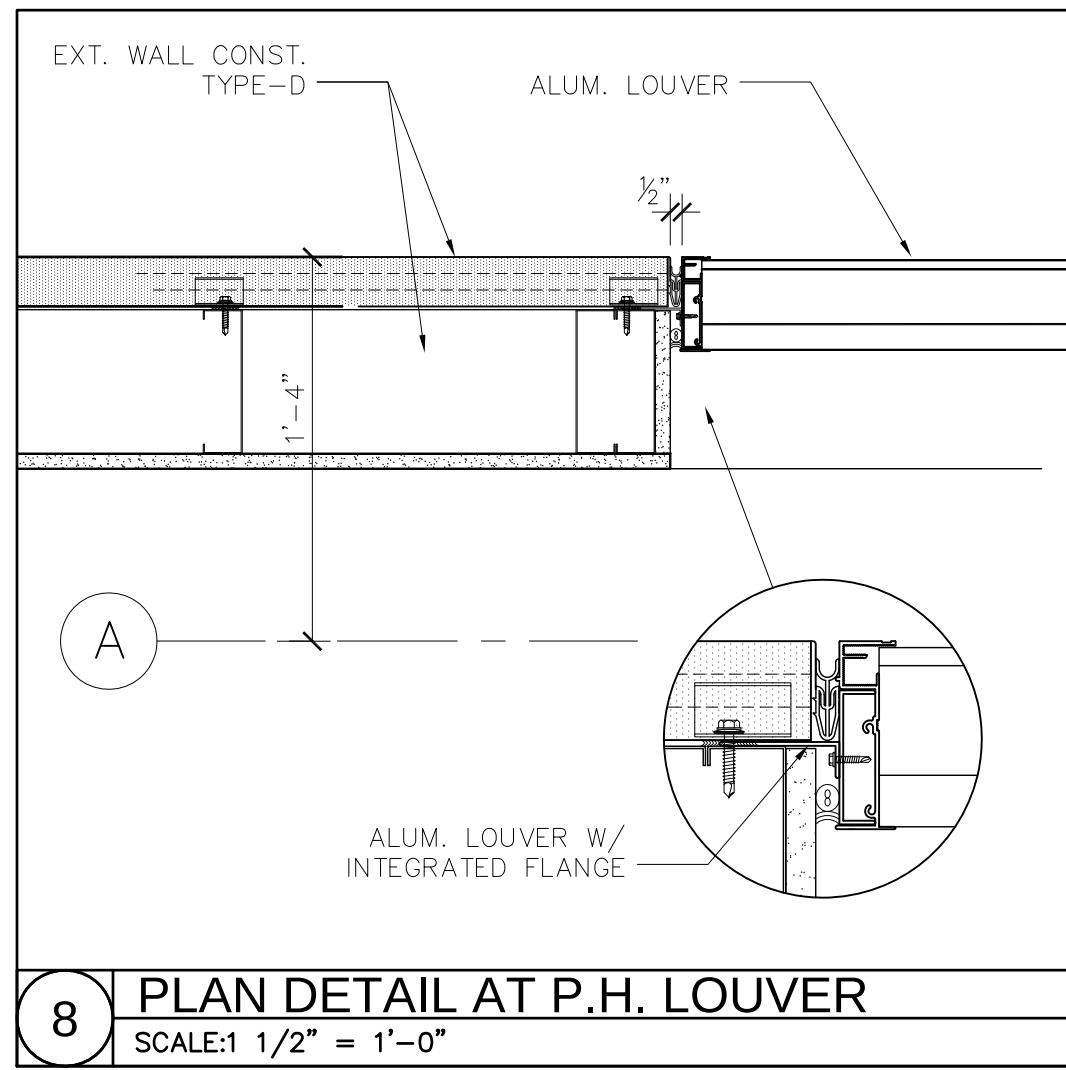
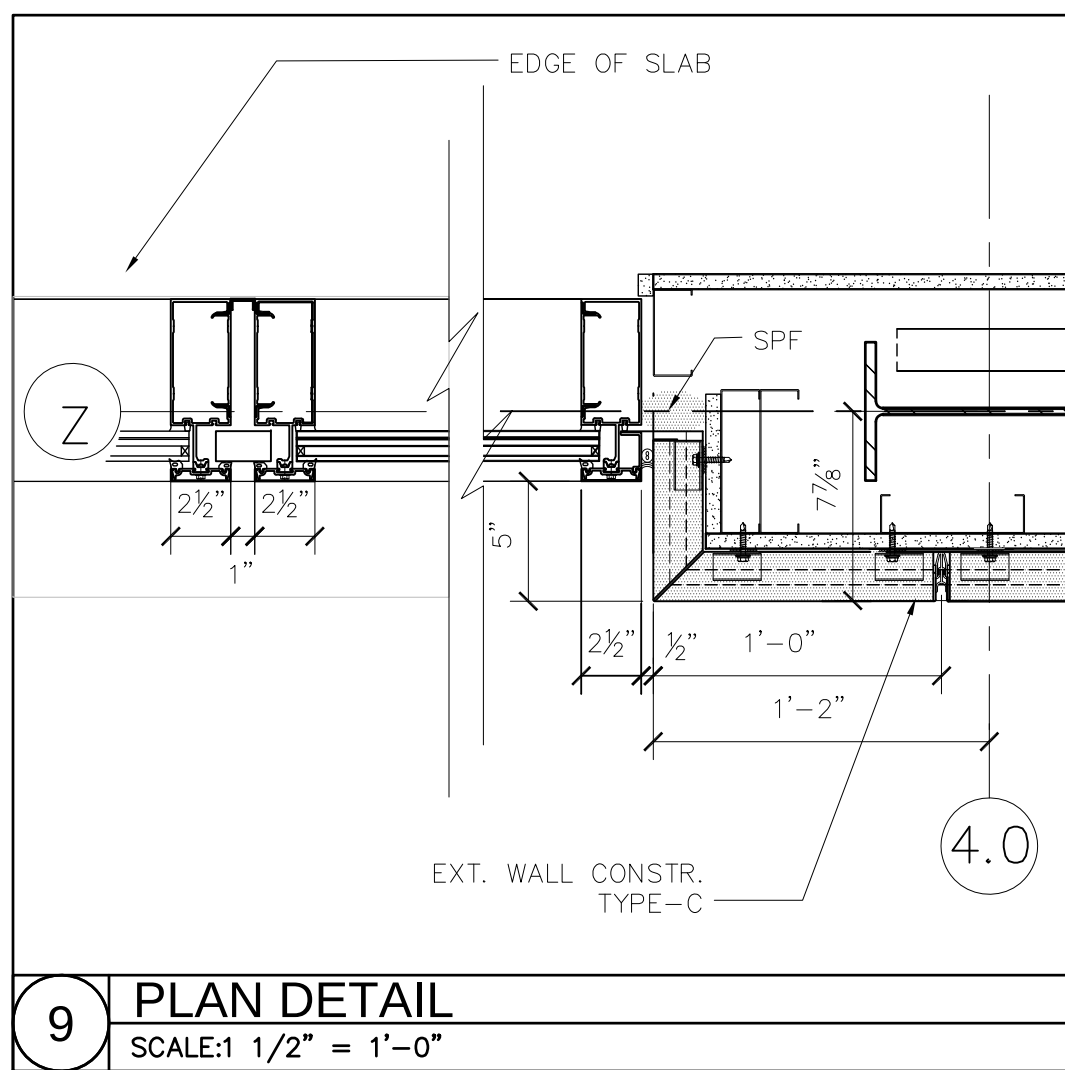
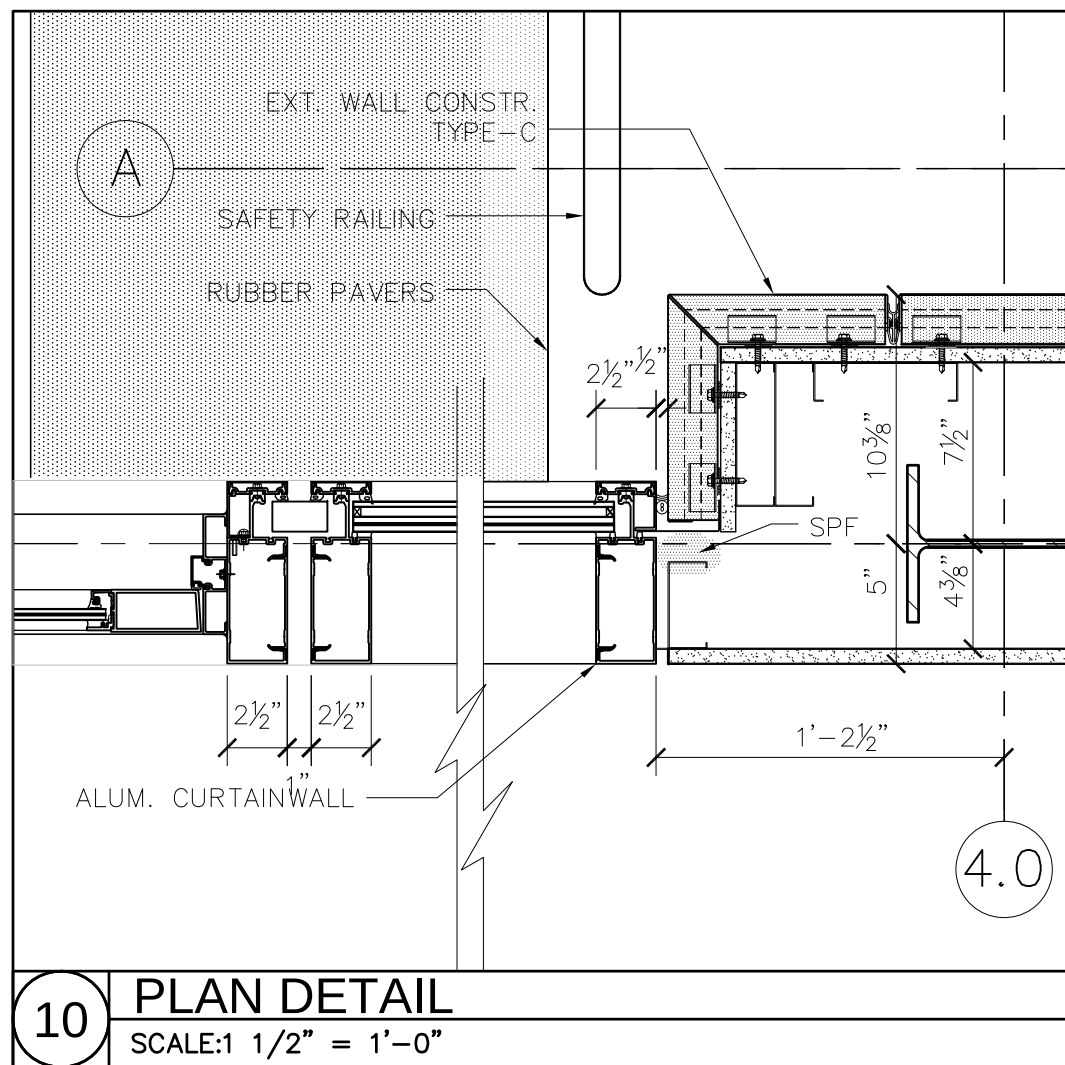
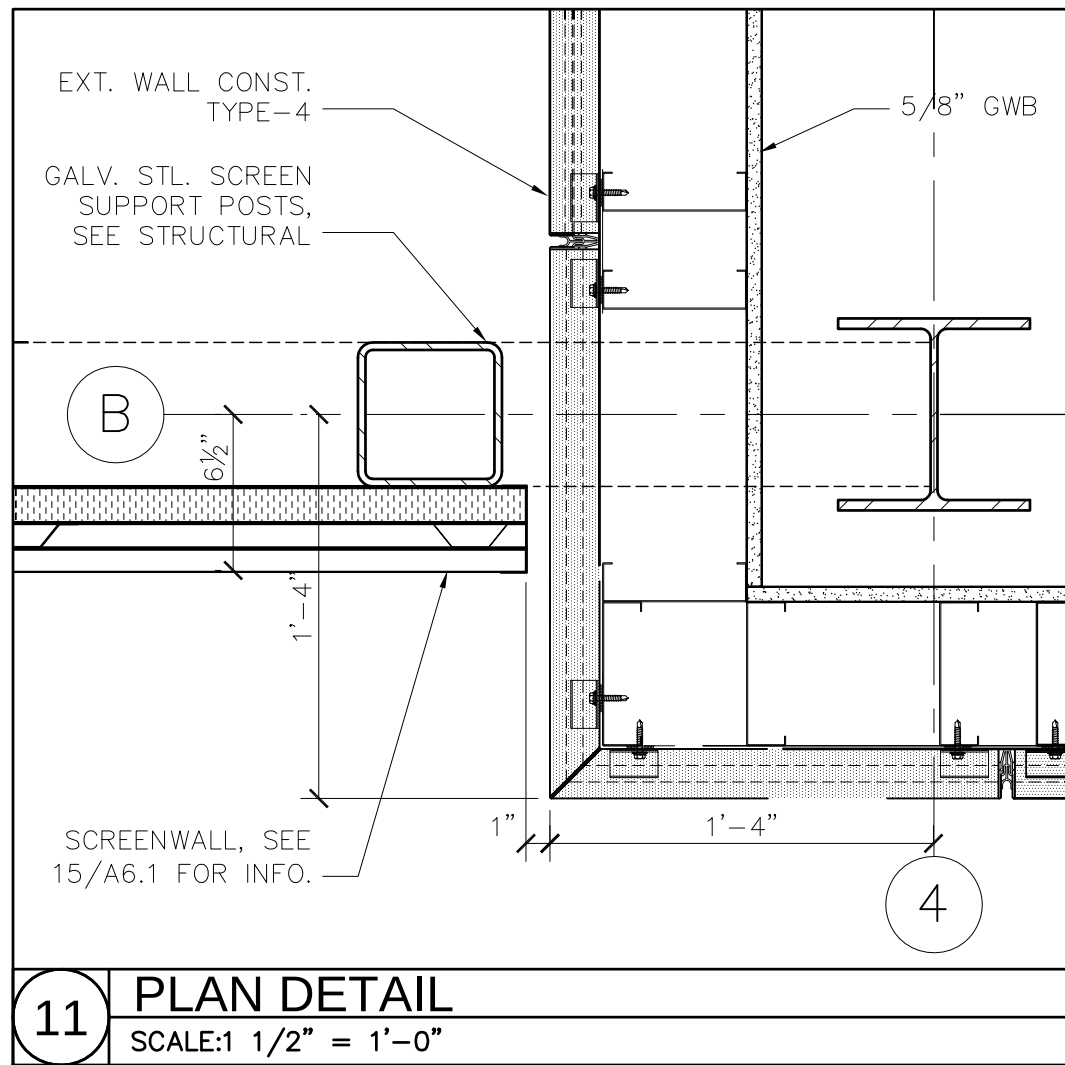
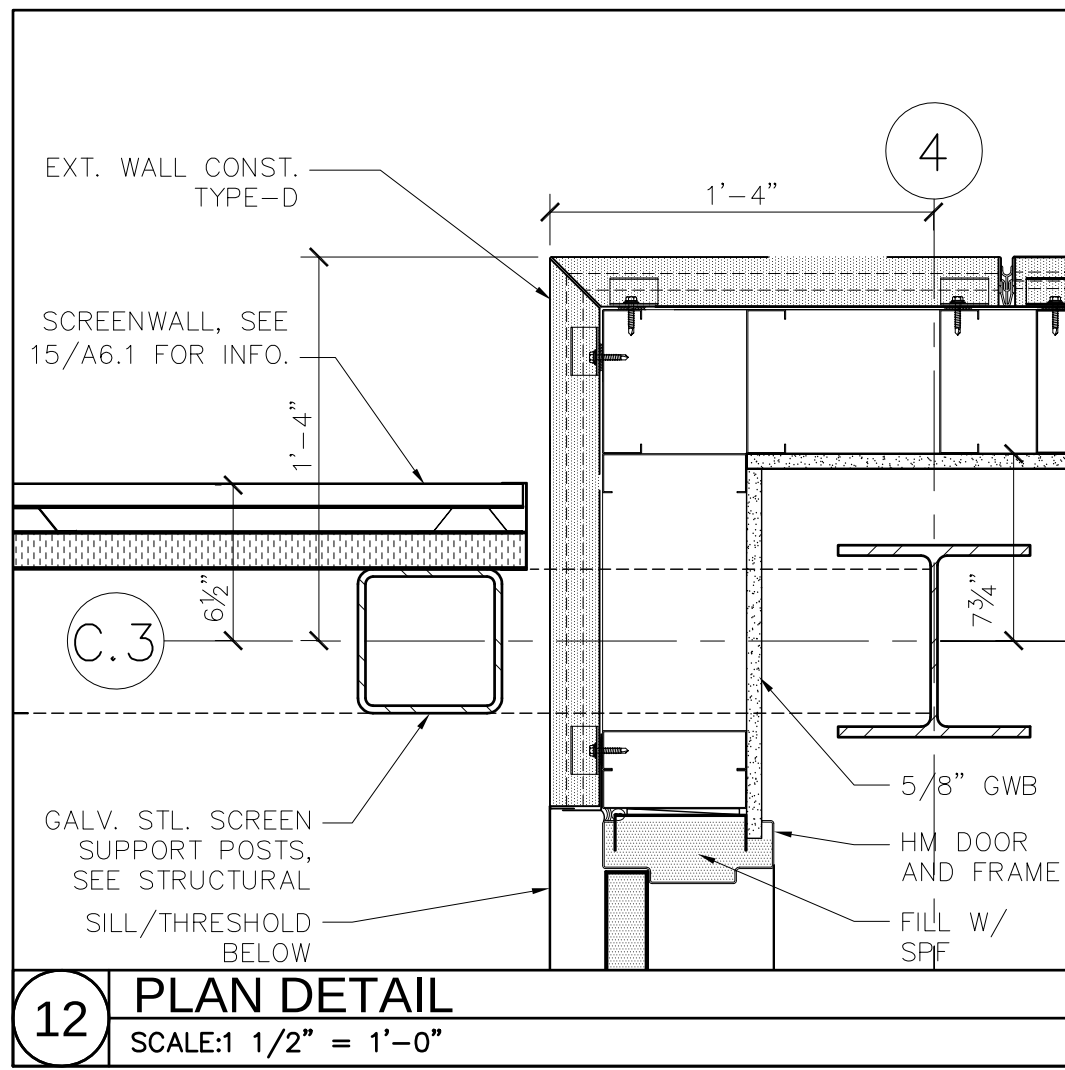
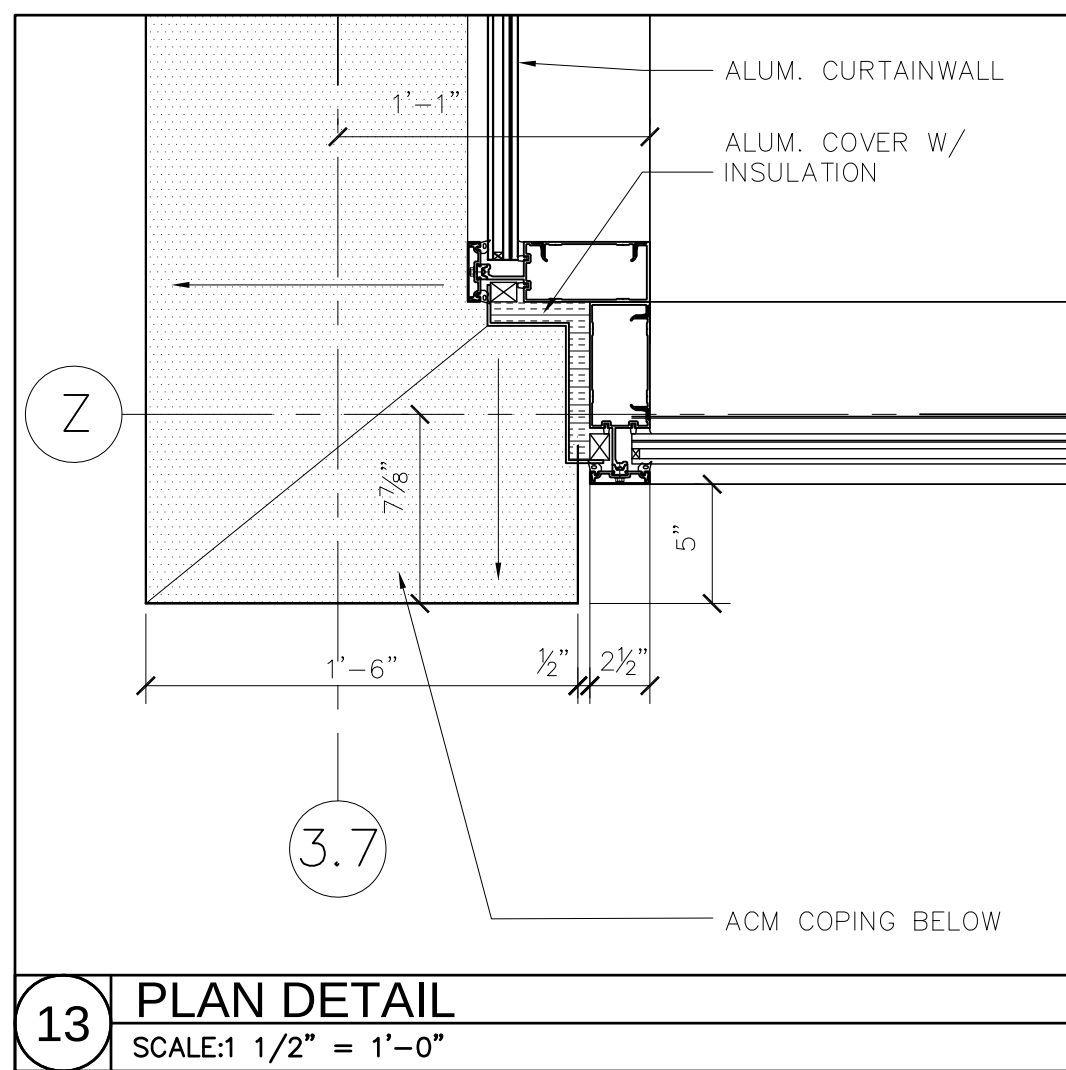
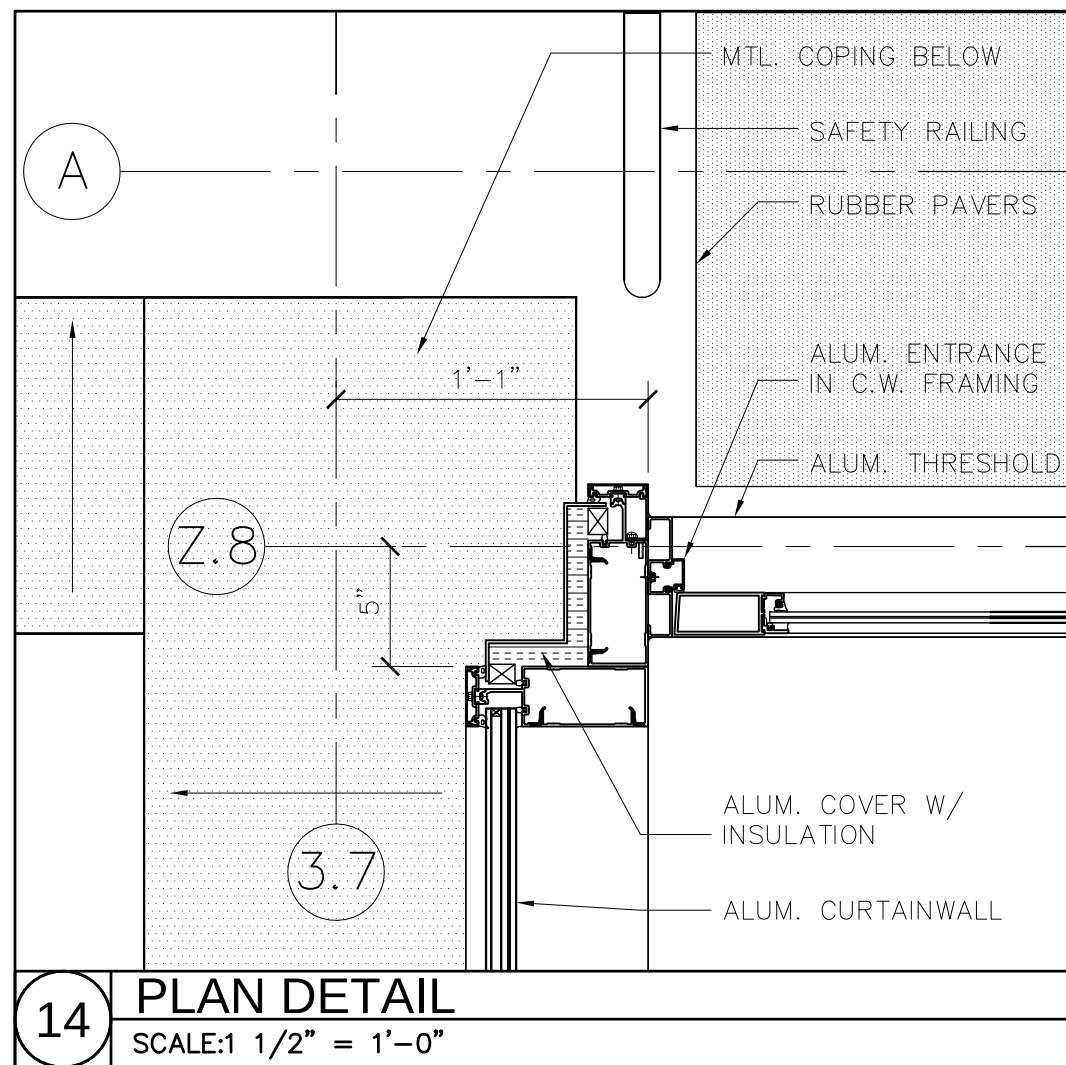
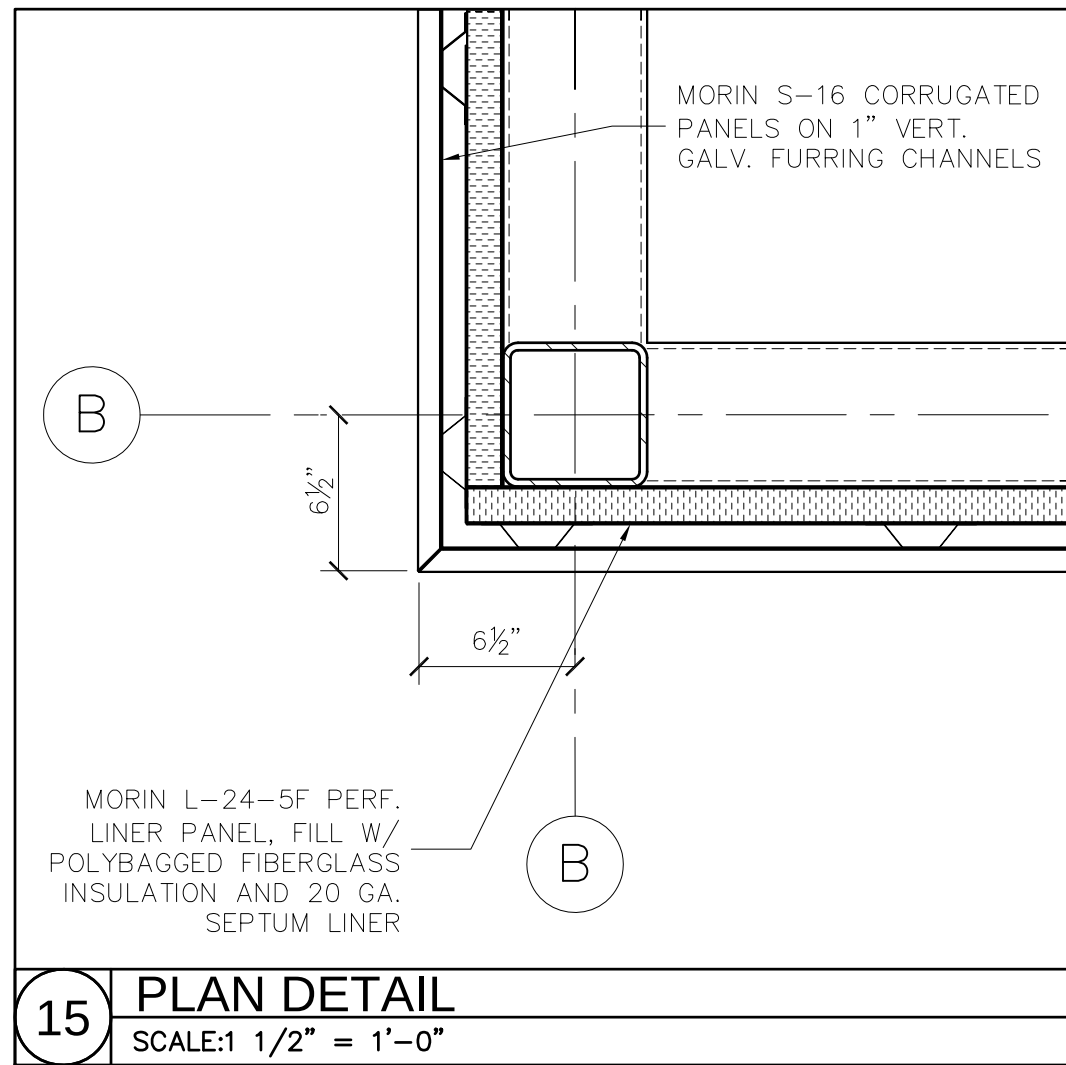
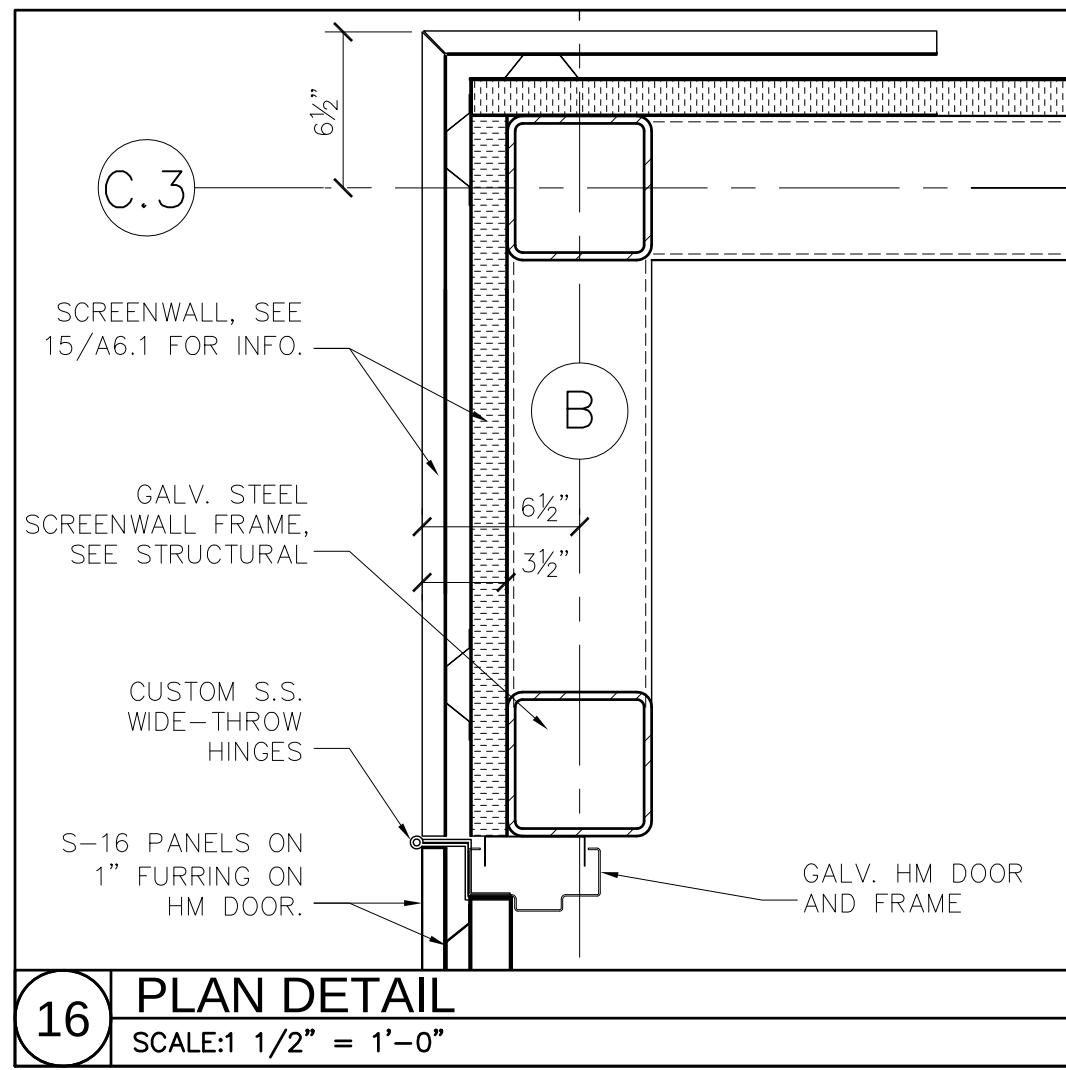
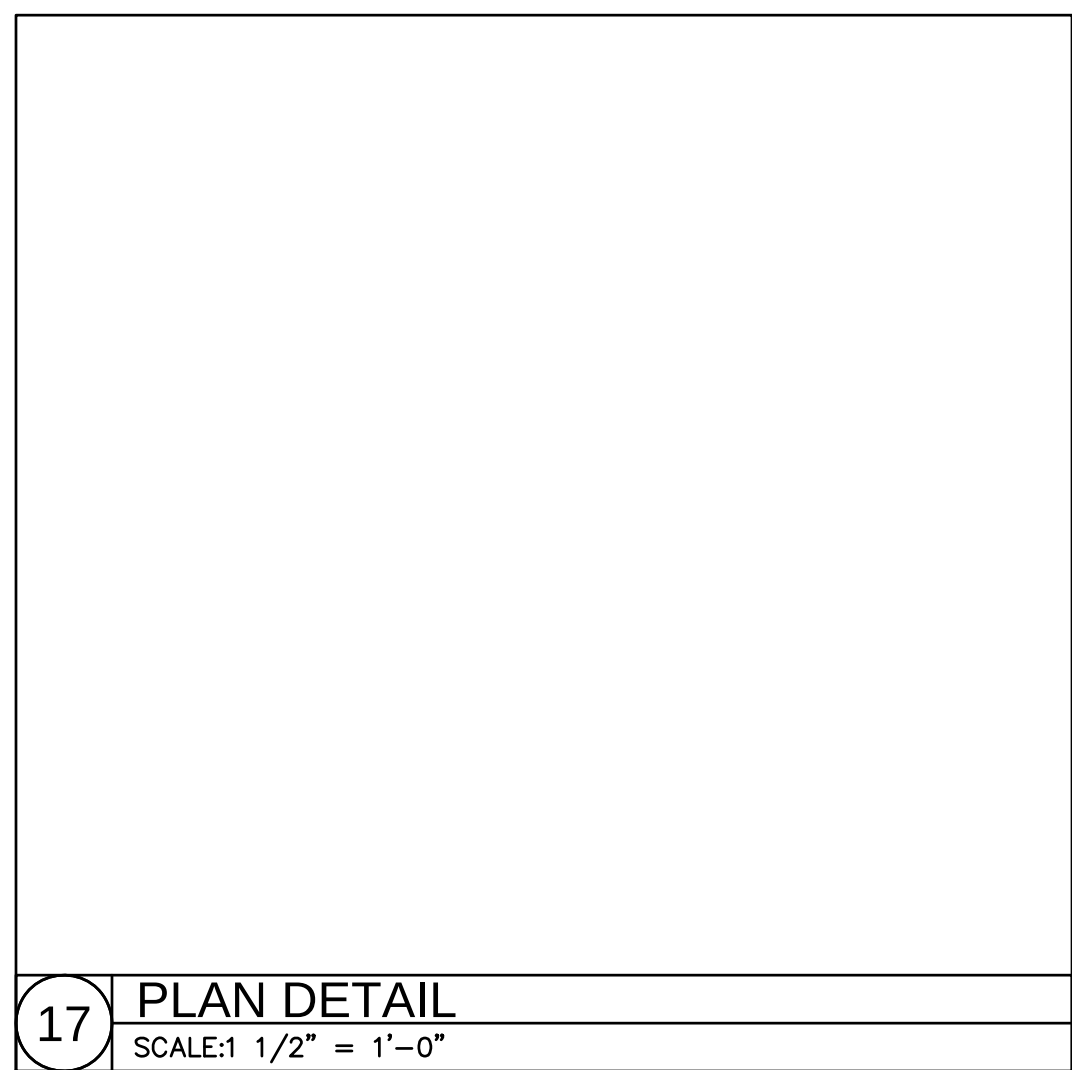
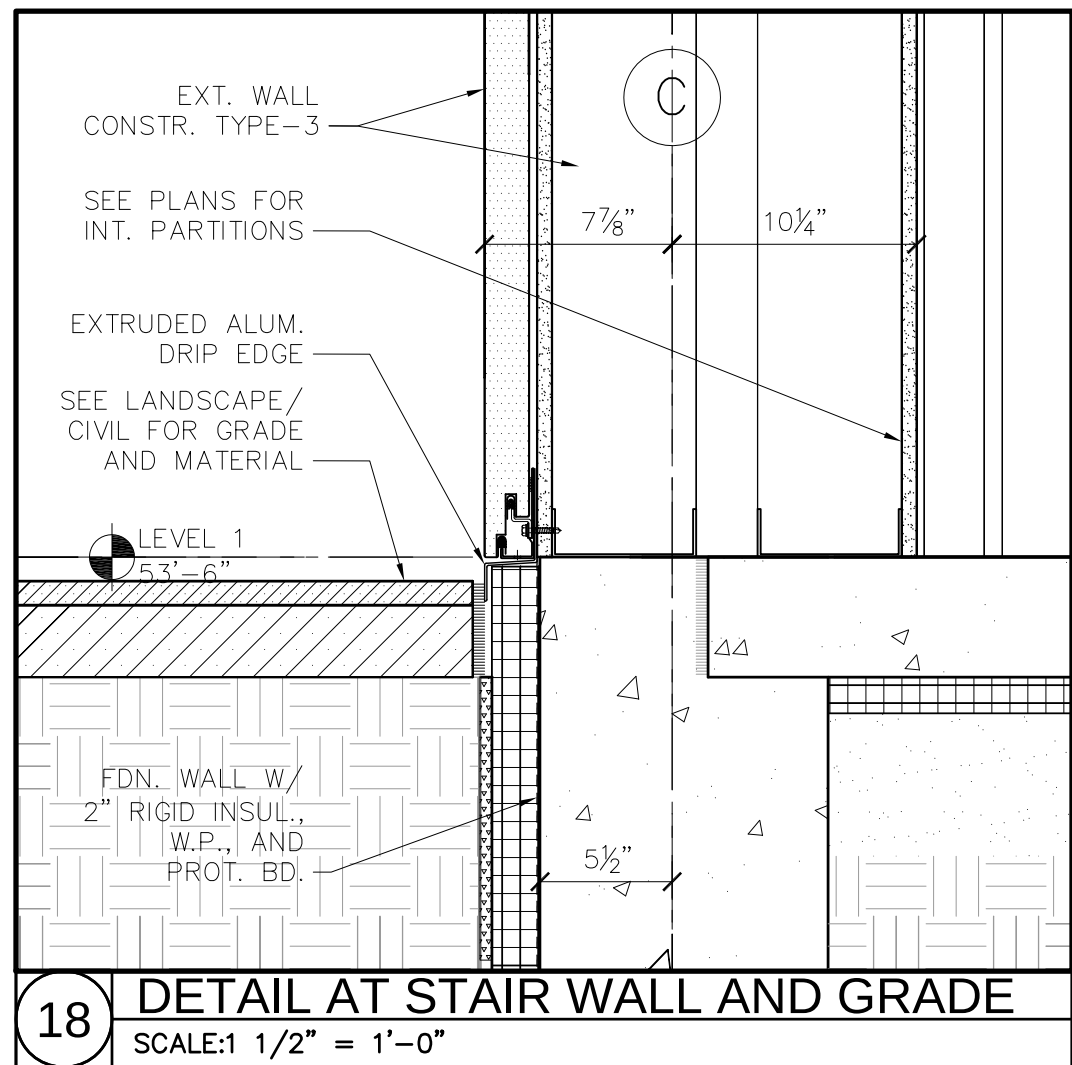
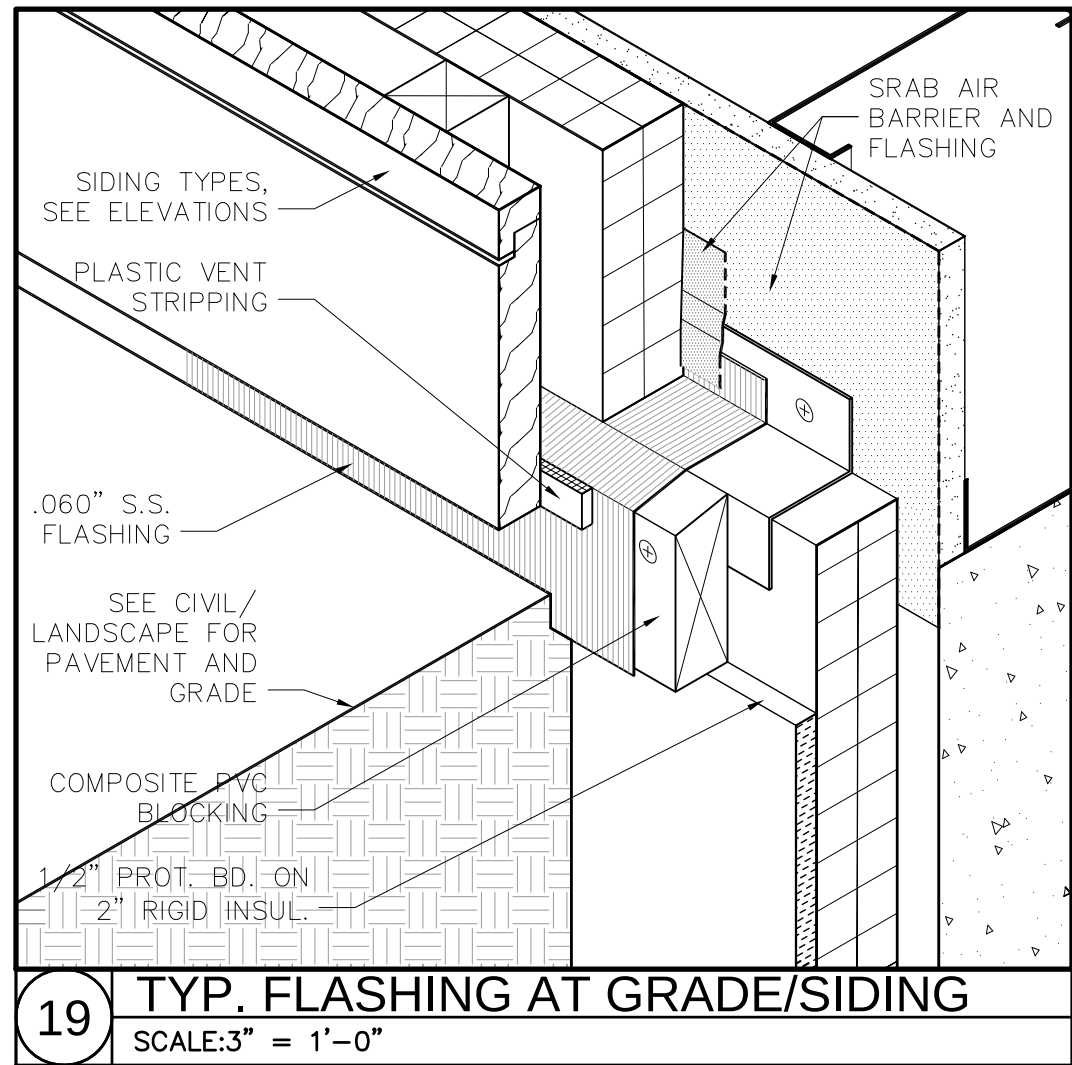
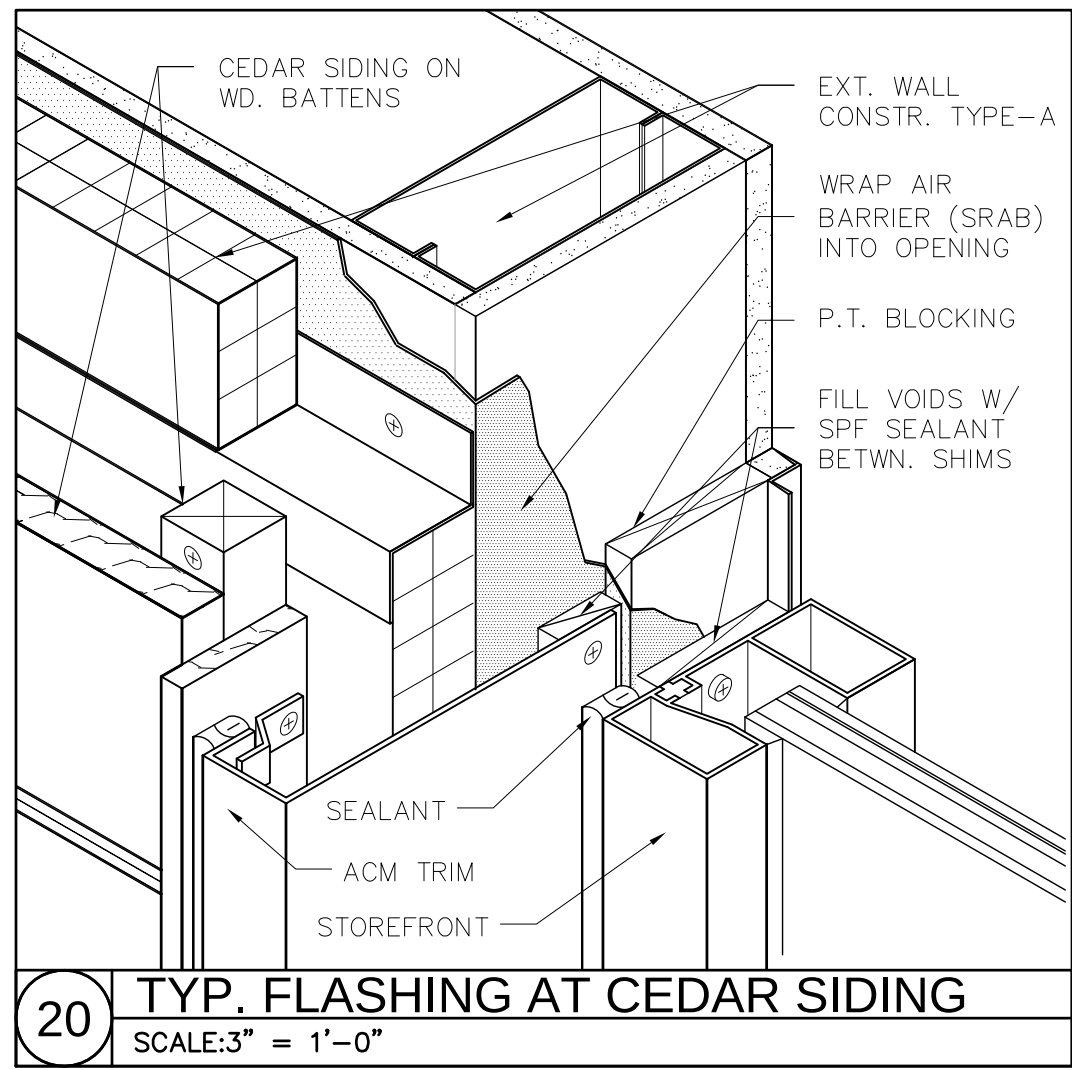
Revisions

PLAN DETAILS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A6.3

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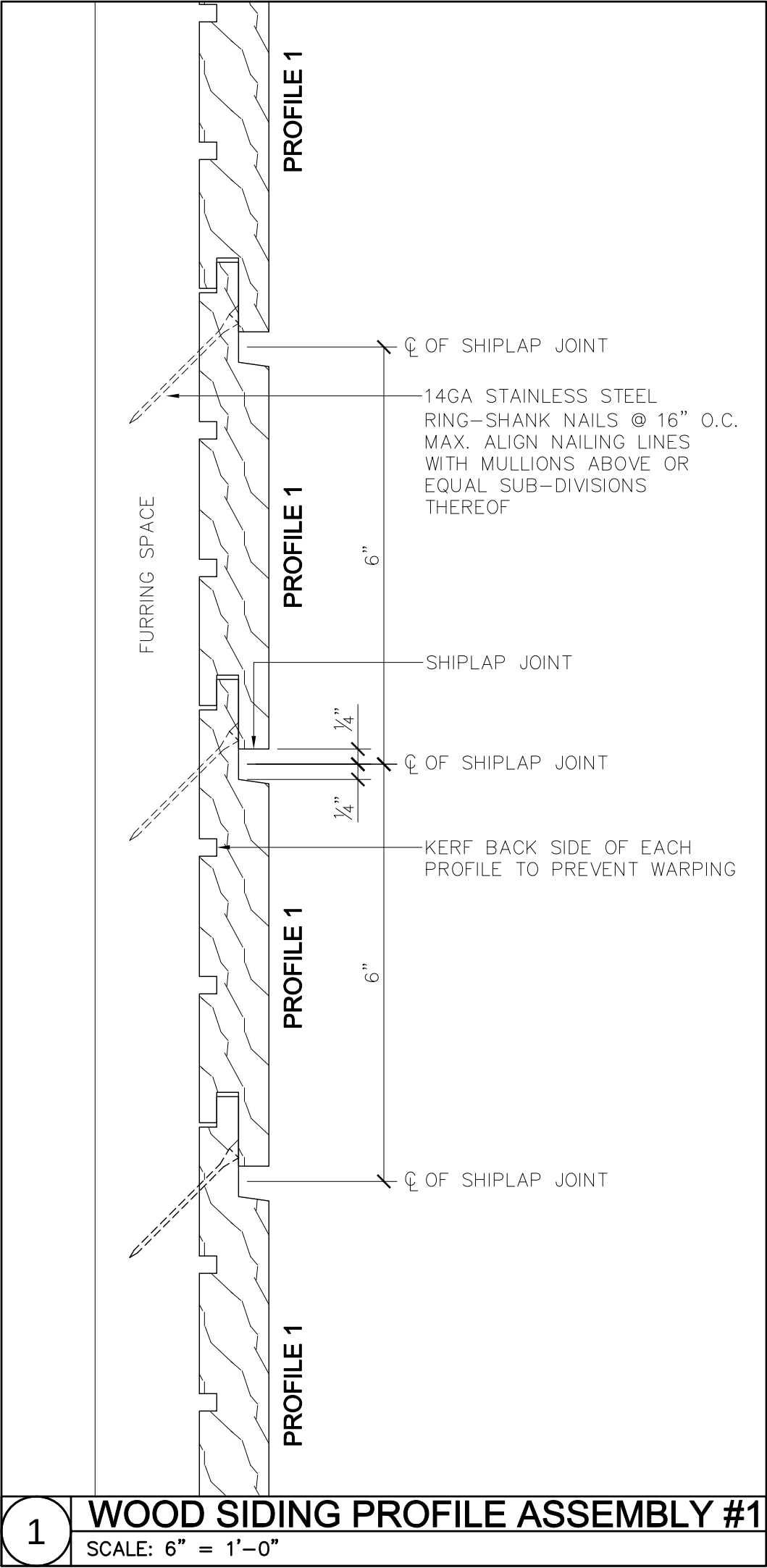
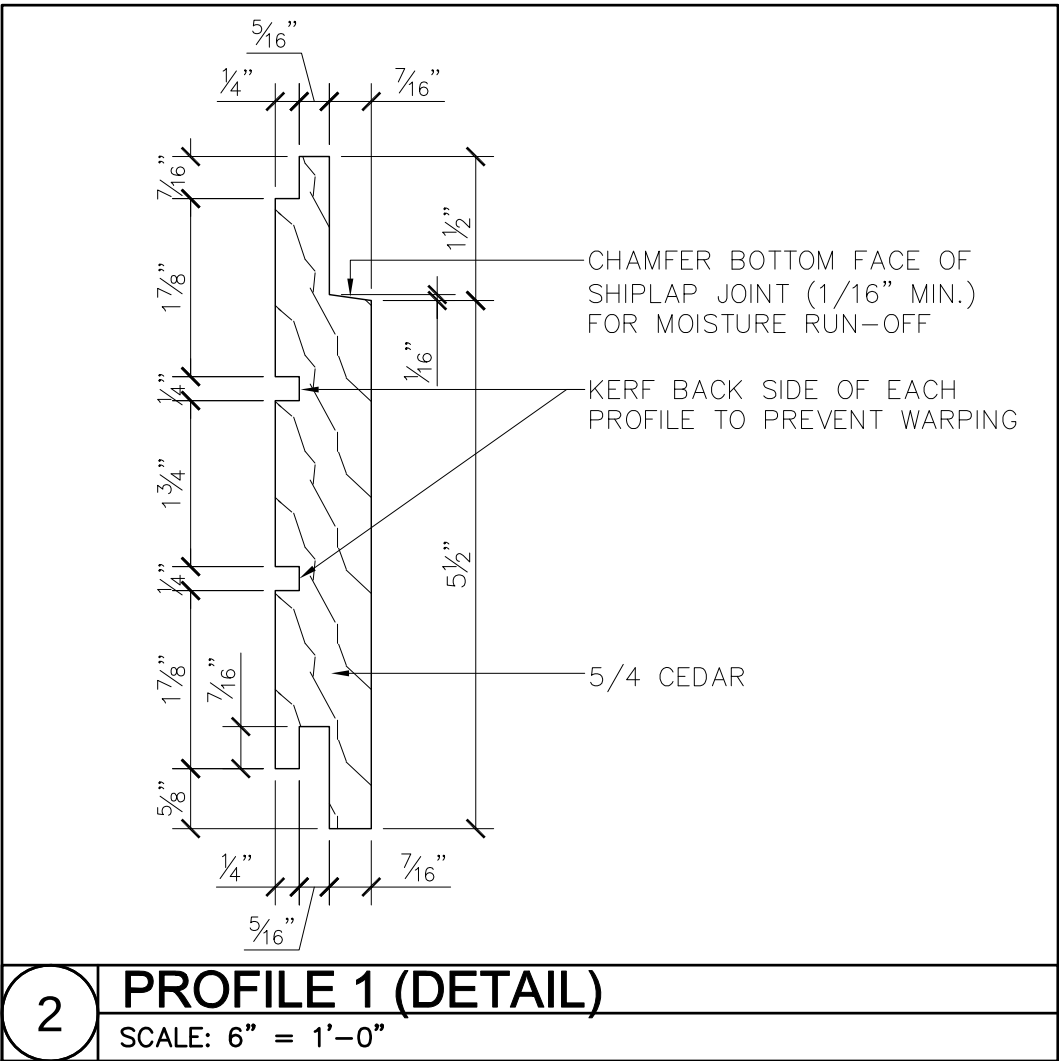
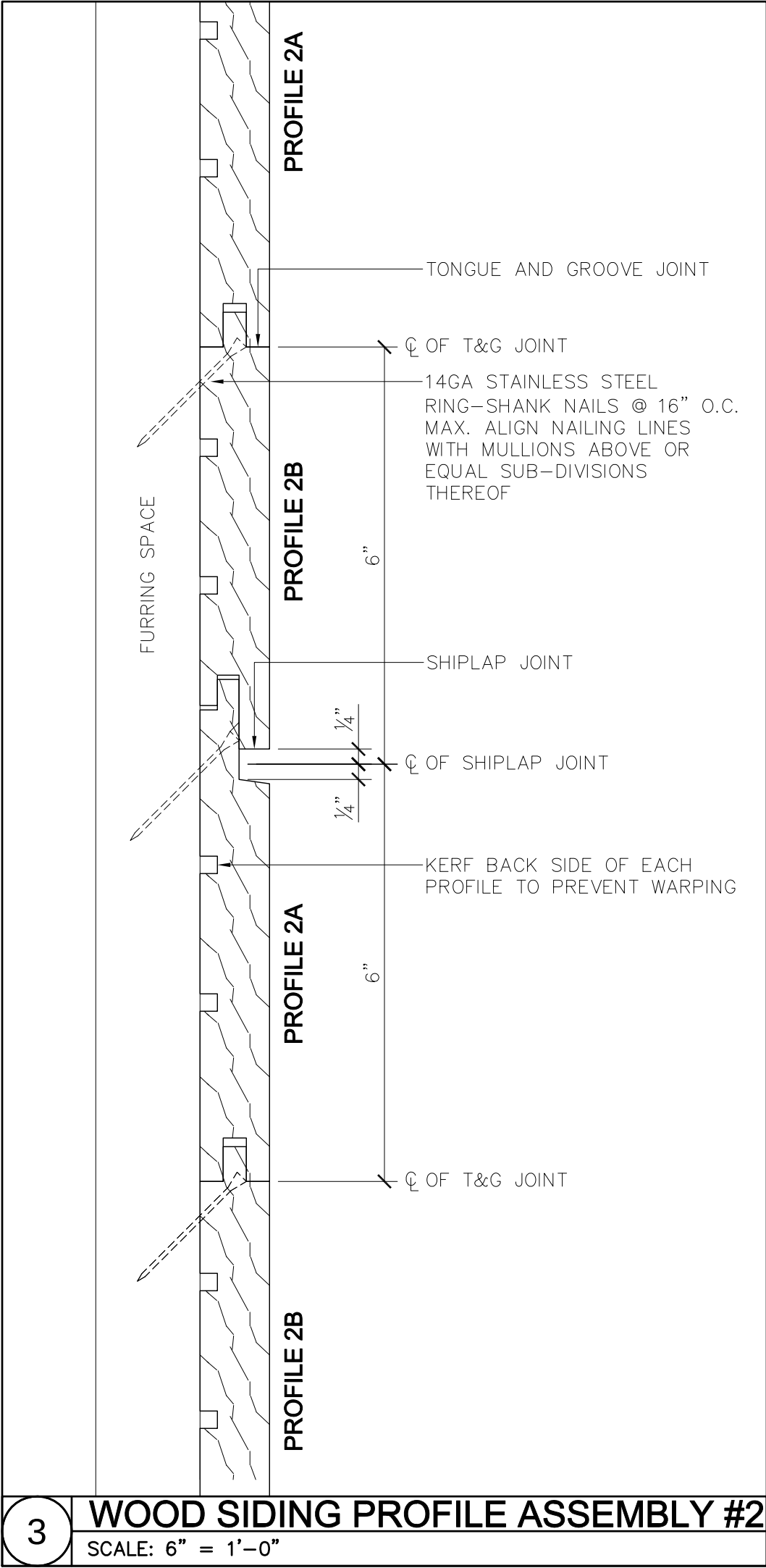
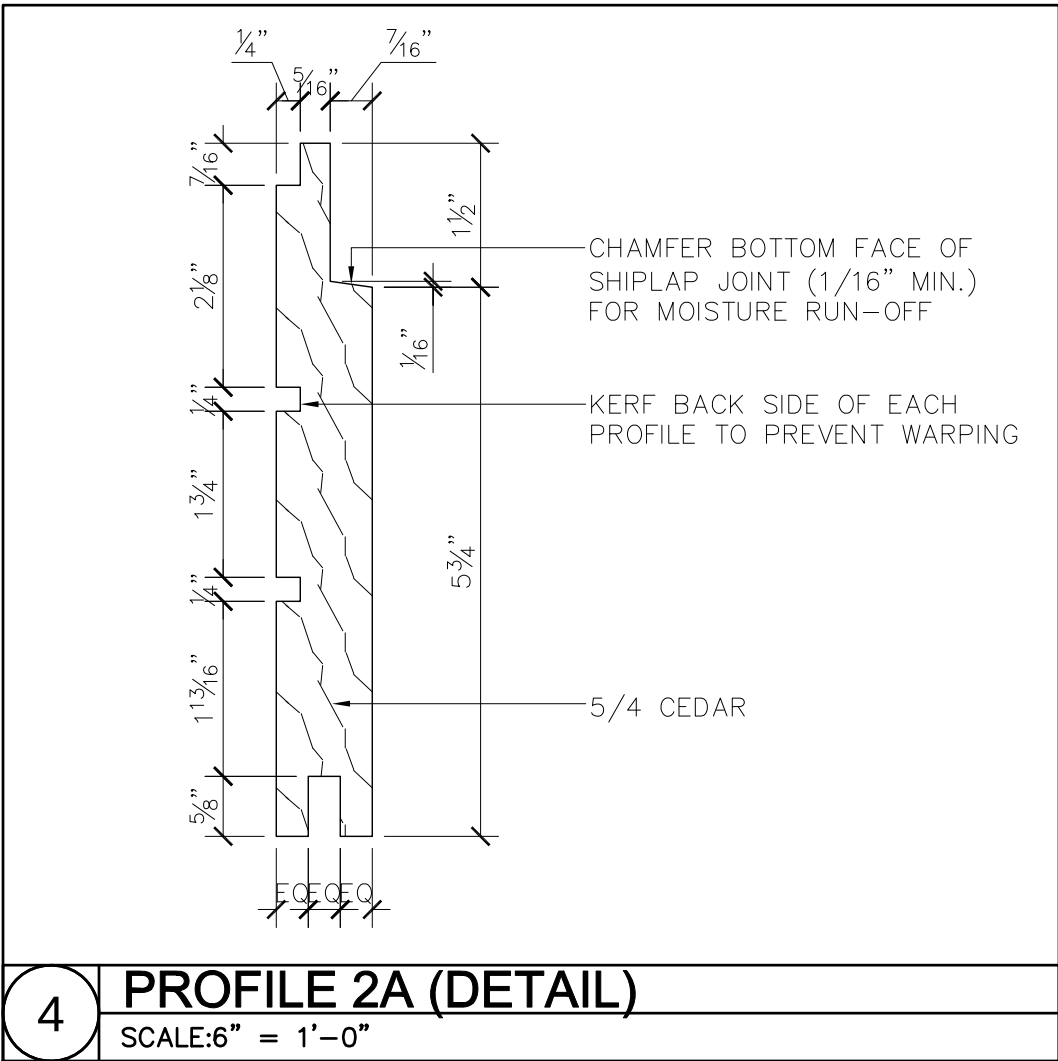
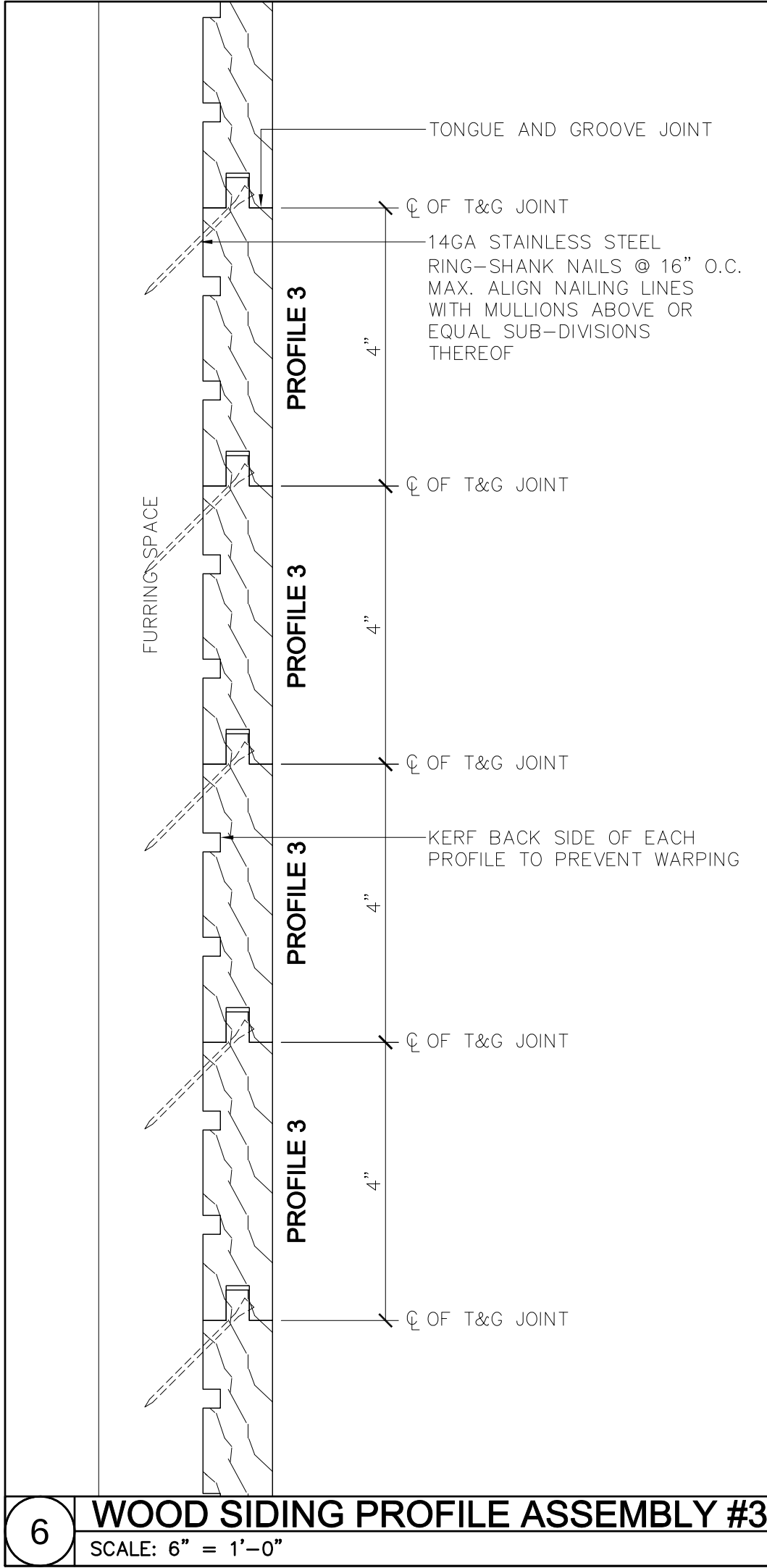
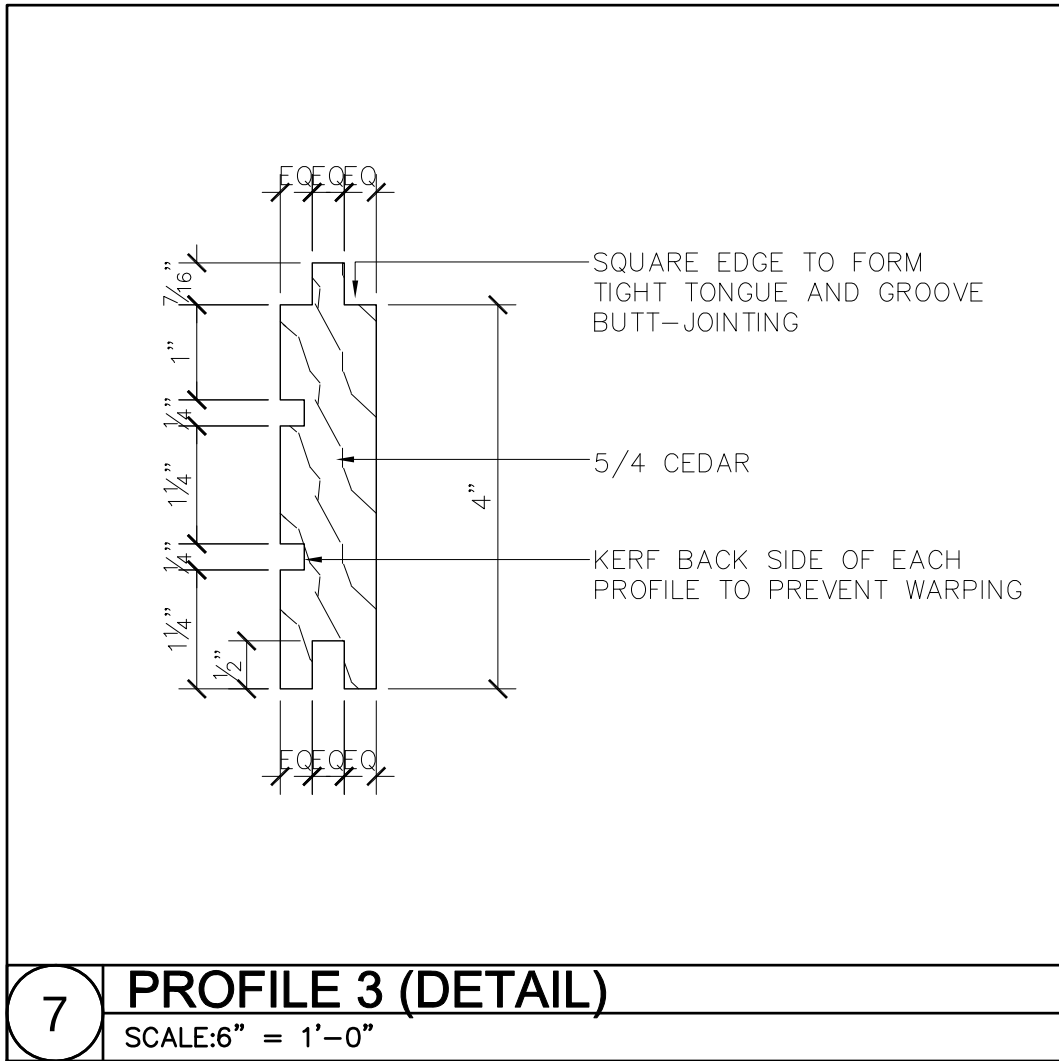
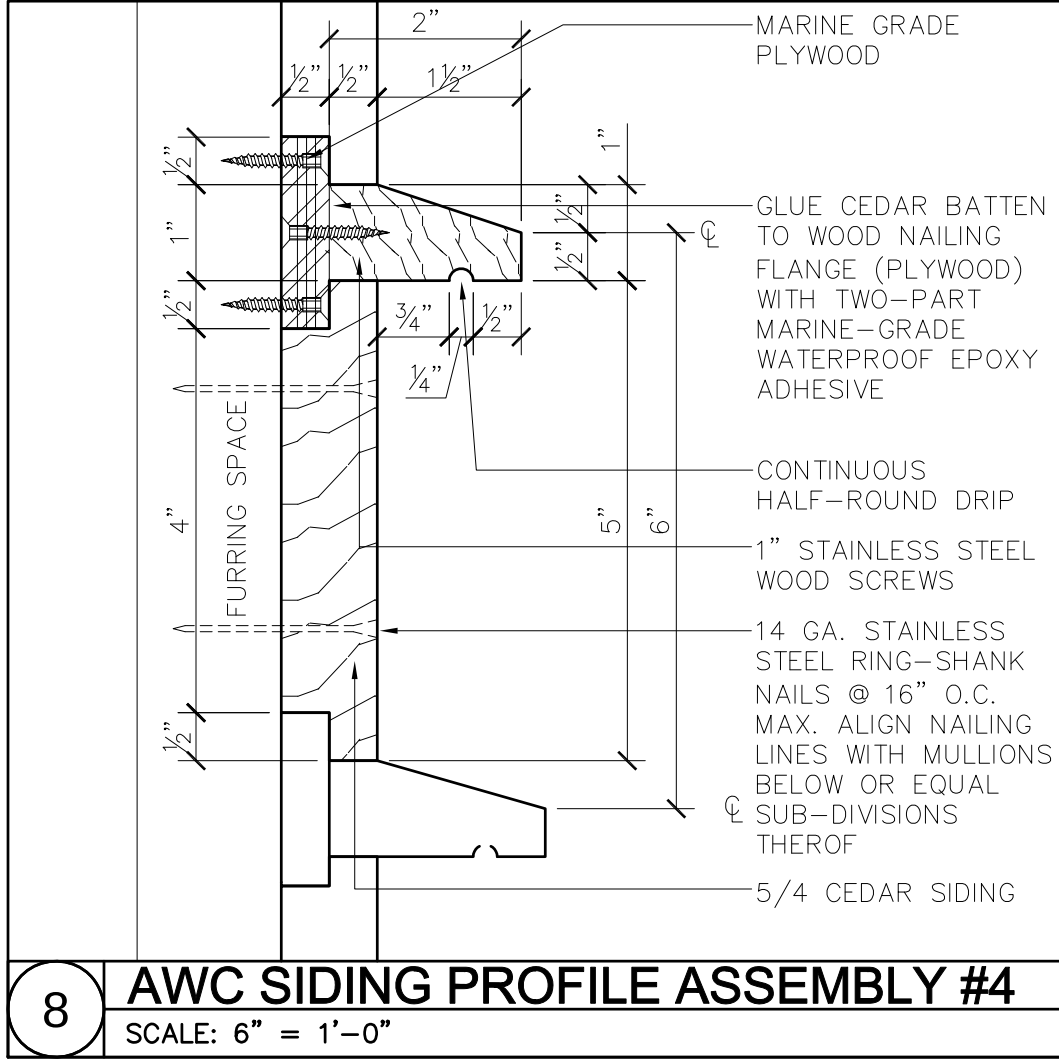
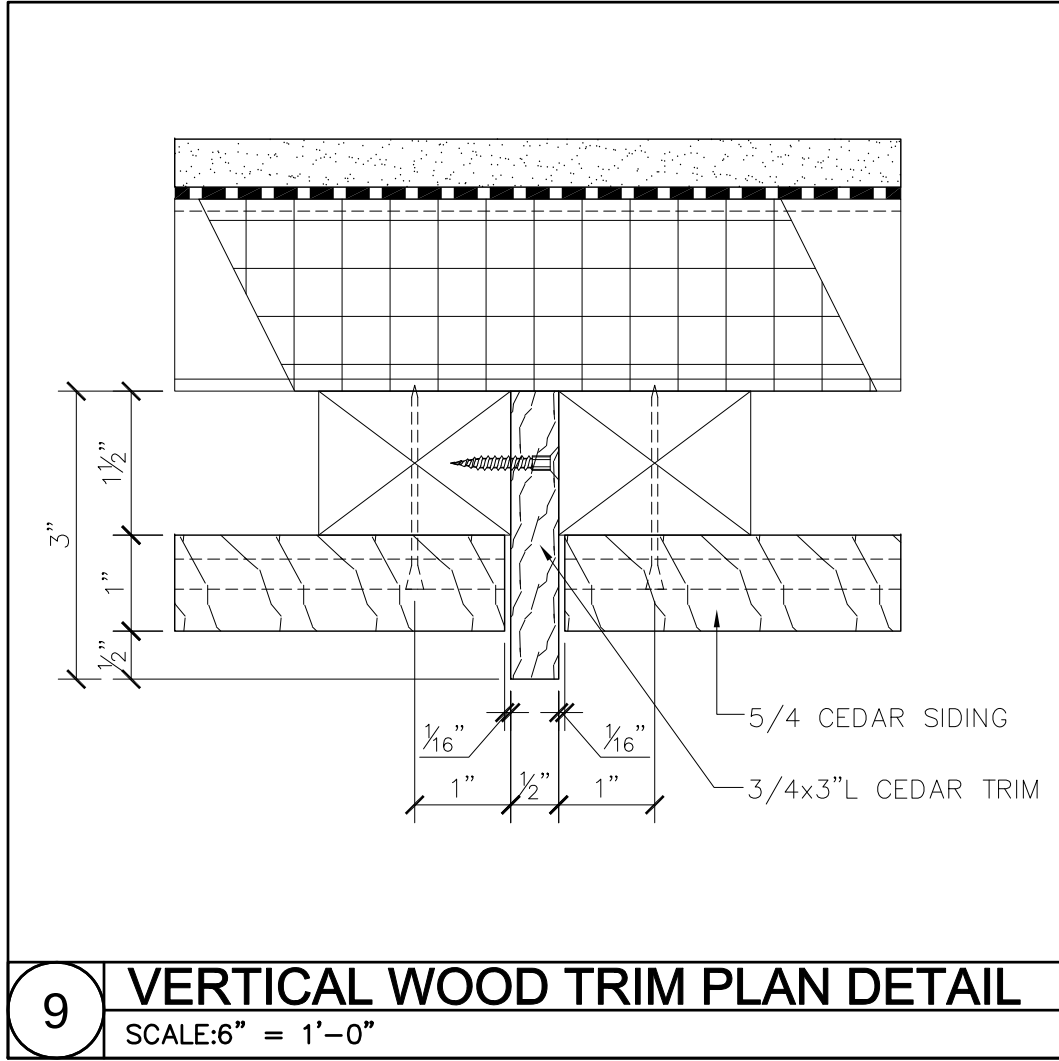
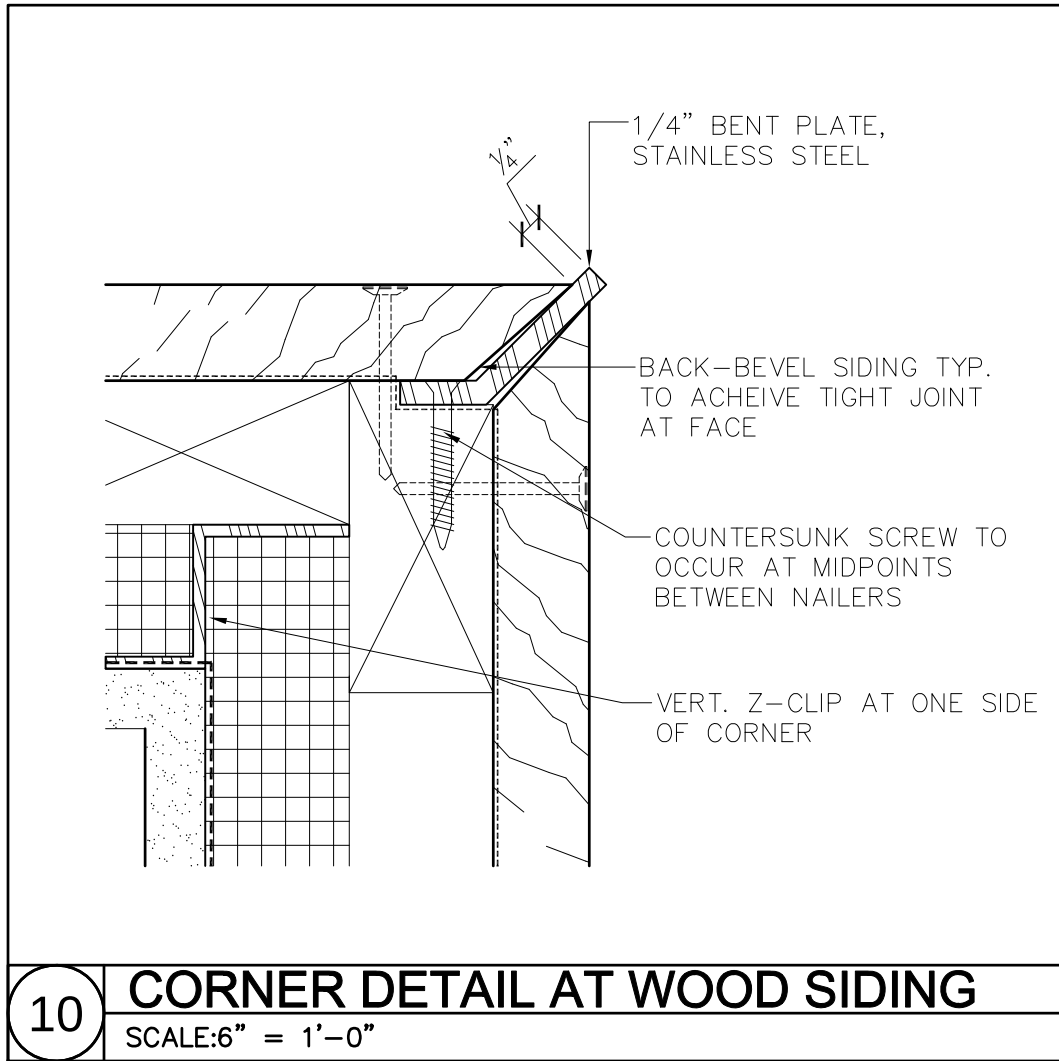
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Drawing By TAK
Checked By EM
Filename 31003-A6.4
Date 15 APRIL 2011

Revisions

PLAN DETAILS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

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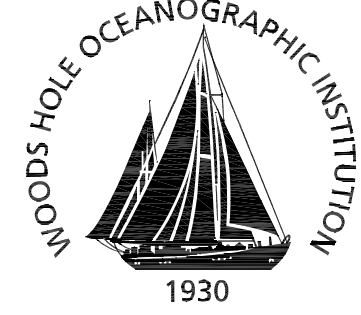


- GENERAL NOTES:
1. CEDAR; GRADE A OR BETTER
 2. 5/4 = 1" ACTUAL THICKNESS OF DIMENSIONAL WOOD
 3. ALL NAILING SHALL BE SHOWN IN SHOP FABRICATION DRAWINGS; AND NAILING PATTERN MUST BE APPROVED PRIOR TO RELEASE.
 4. NAILING PATTERN TO BE UNIFORM; INTEGRAL WITH OTHER ARCHITECTURAL ELEMENTS/SYSTEMS
 5. ALL FASTENERS SHALL BE 316 STAINLESS STEEL

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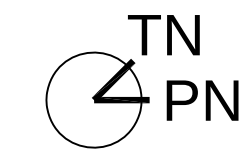
Holmes and McGrath, Inc. 362 Gifford Street
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Notes:



Keyplan

Job Number 31003
Drawing By -
Checked By -
Filename 31003-A6.5
Date 15 APRIL 2011

Revisions

WOOD SIDING PROFILE DETAILS

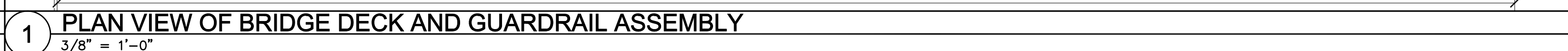
CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A6.5

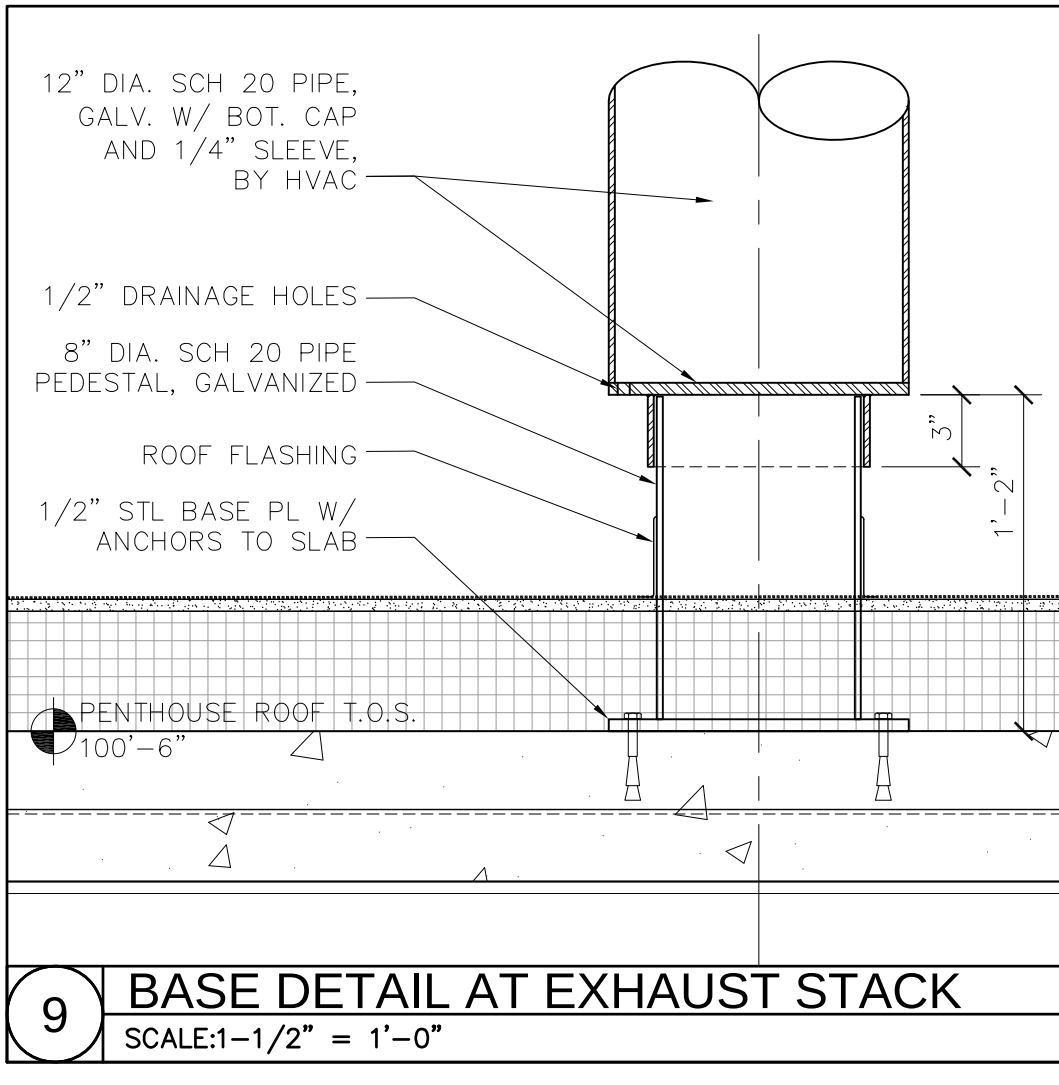
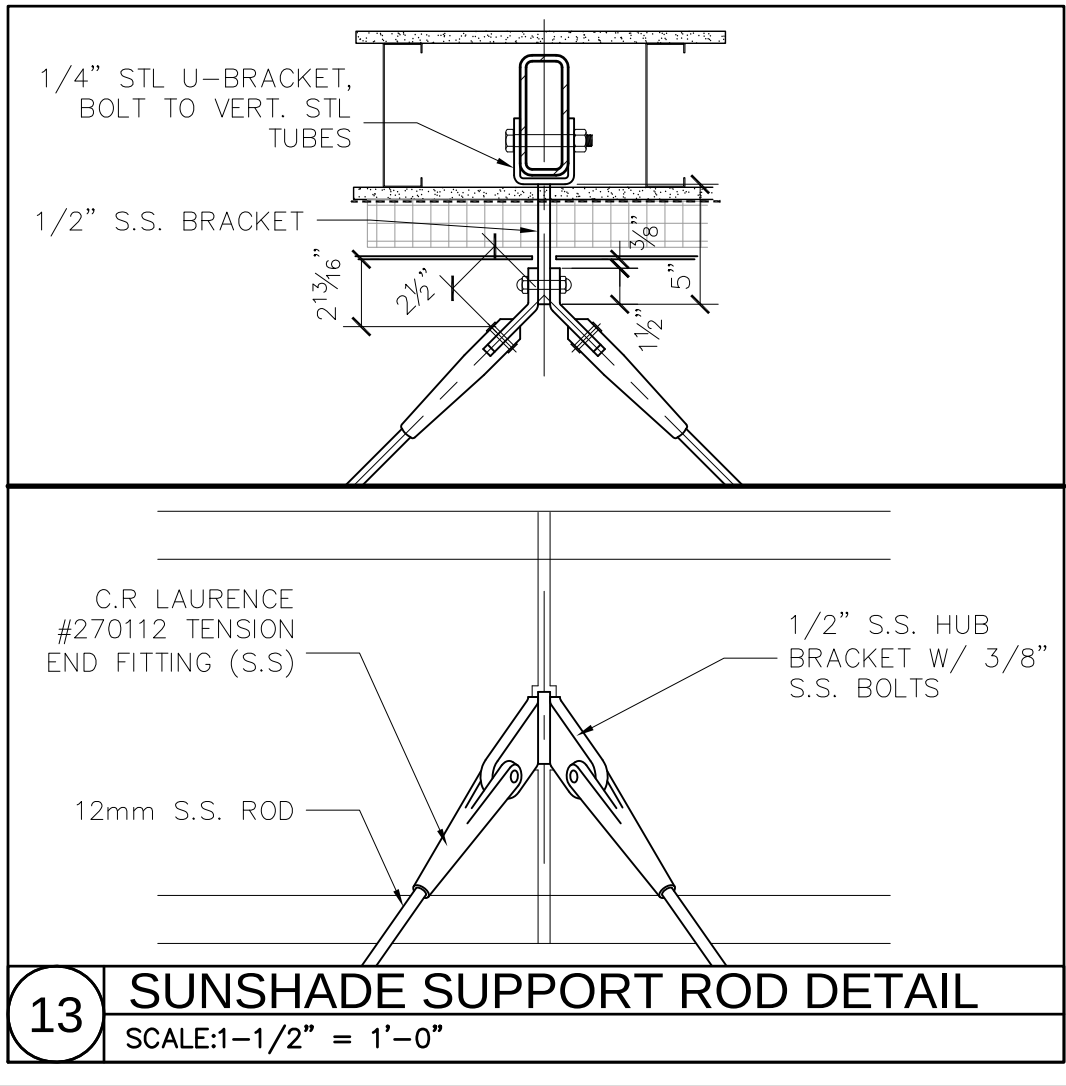
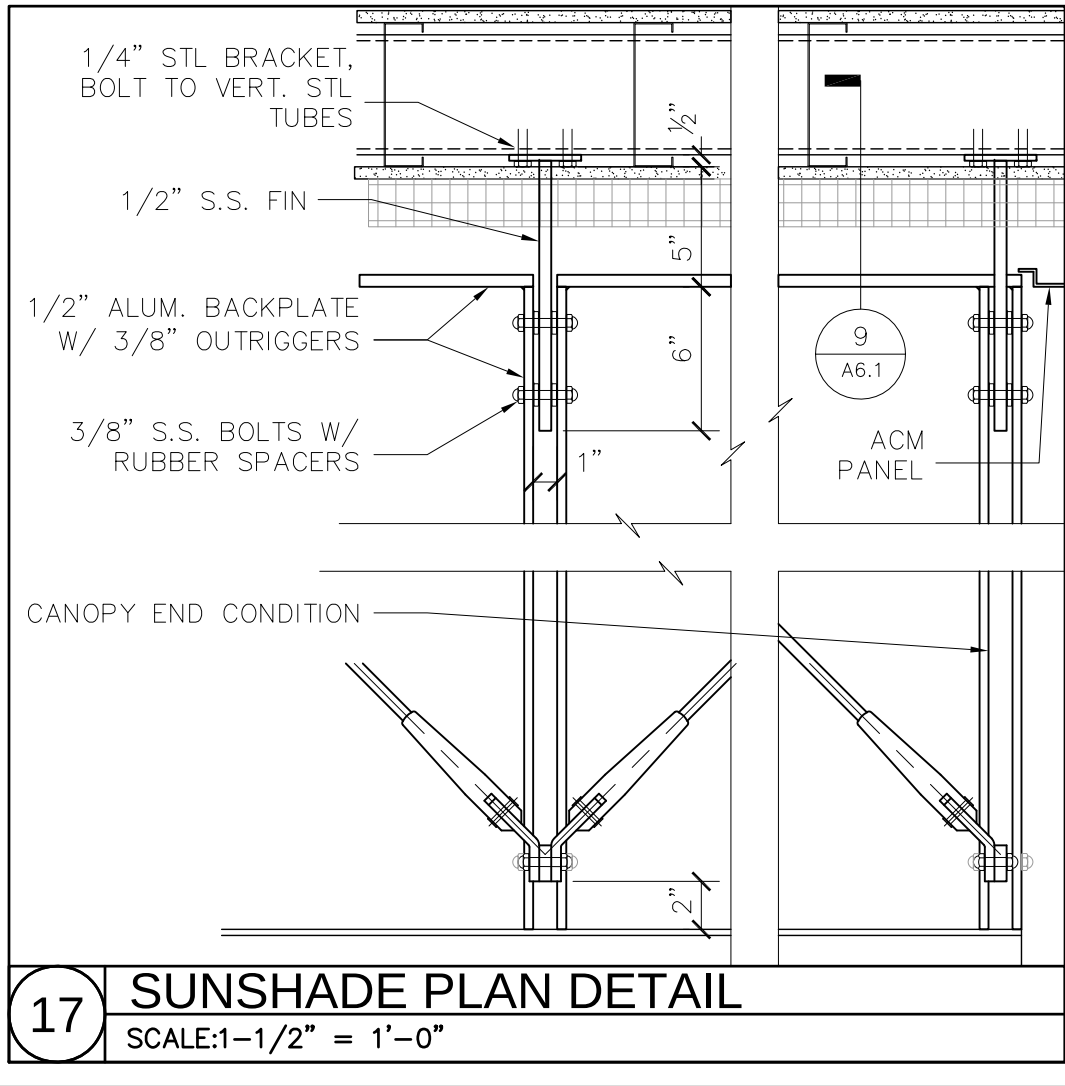
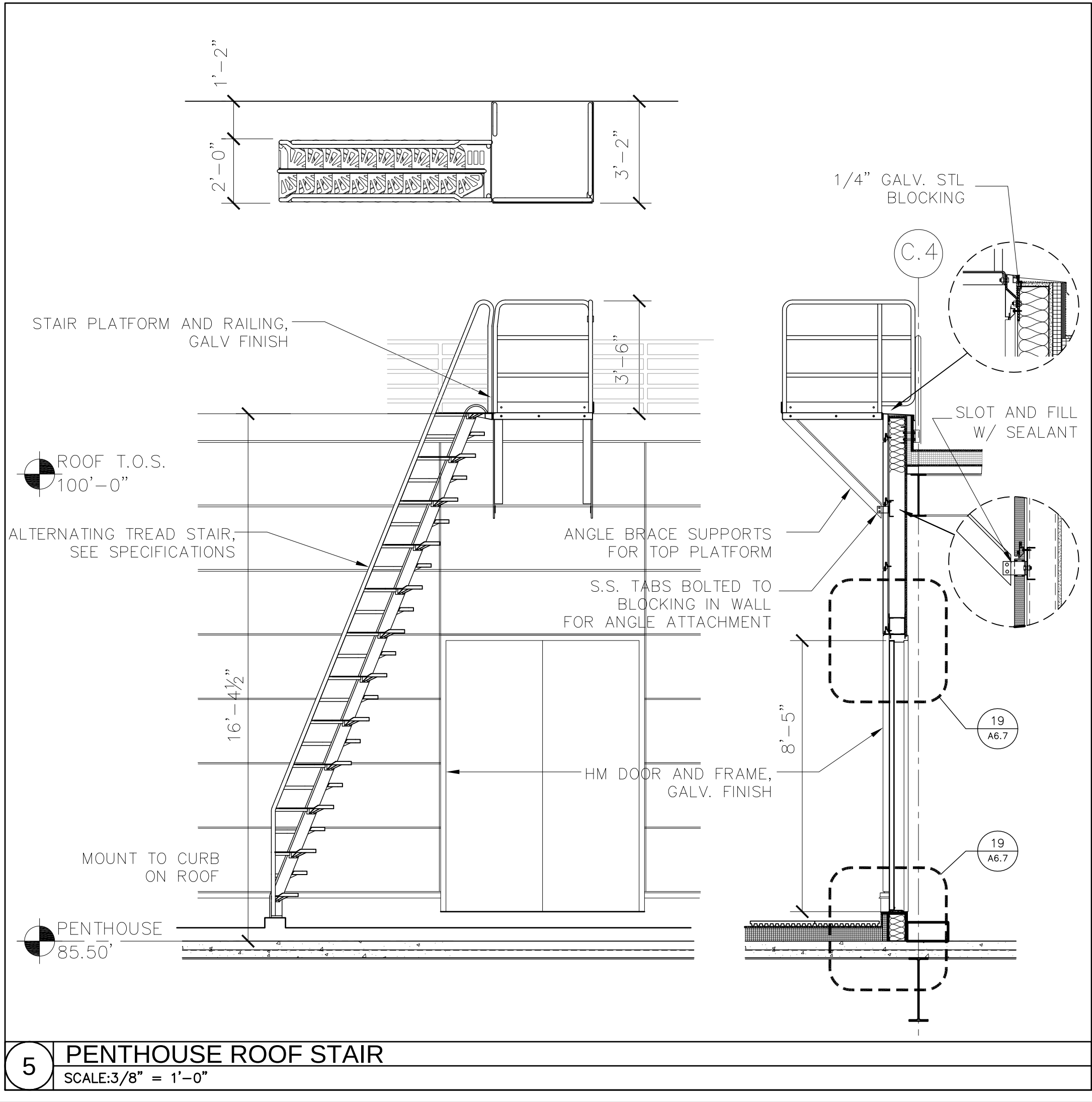
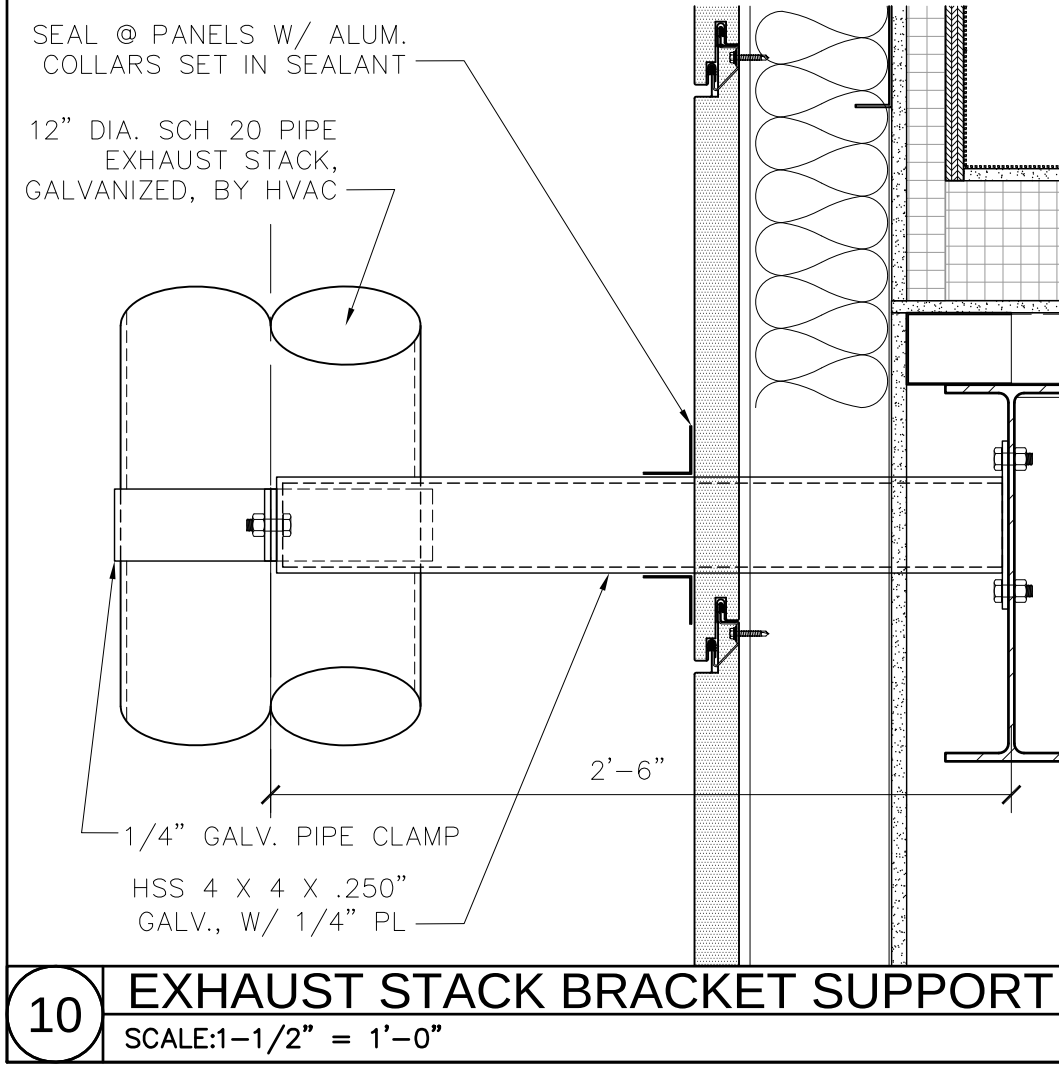
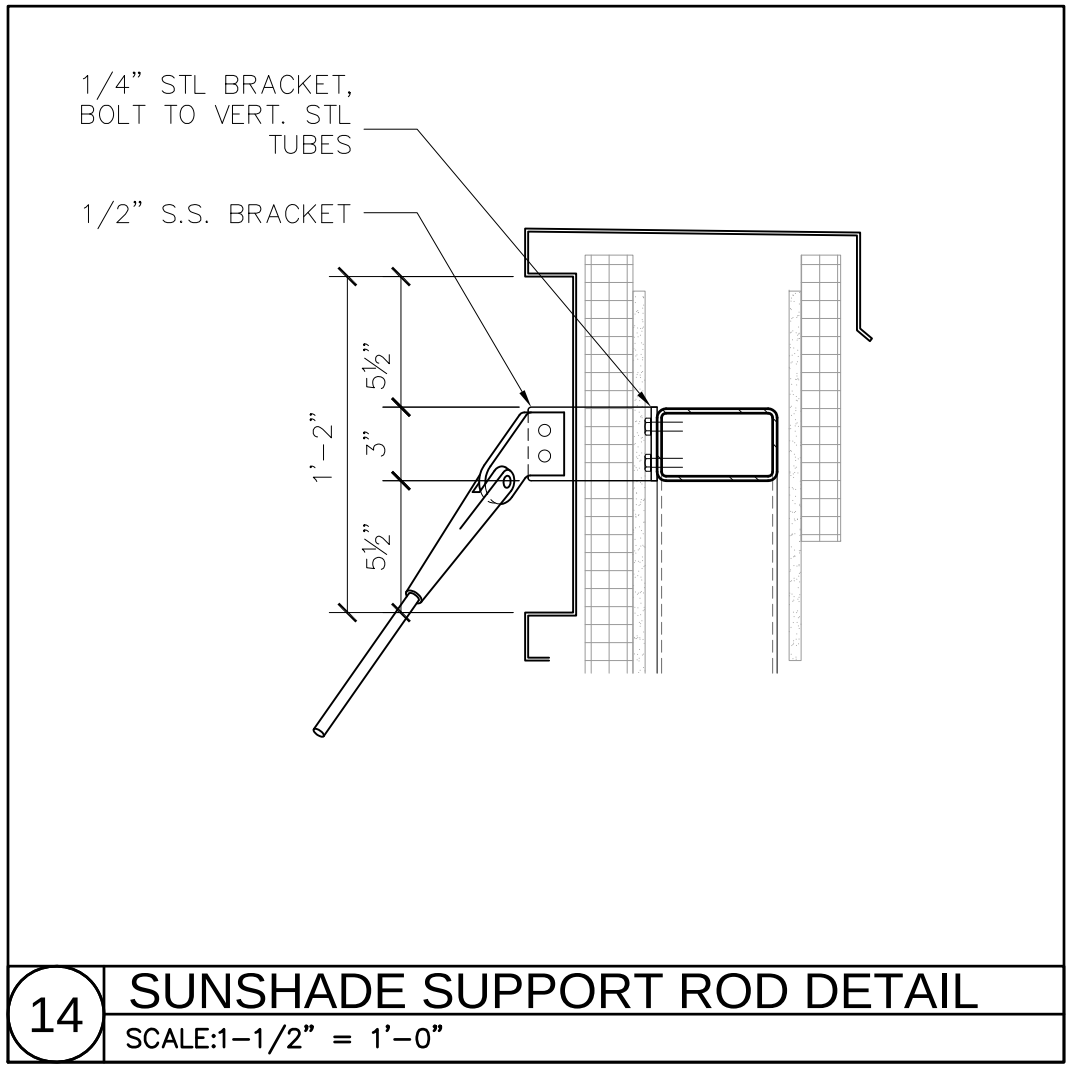
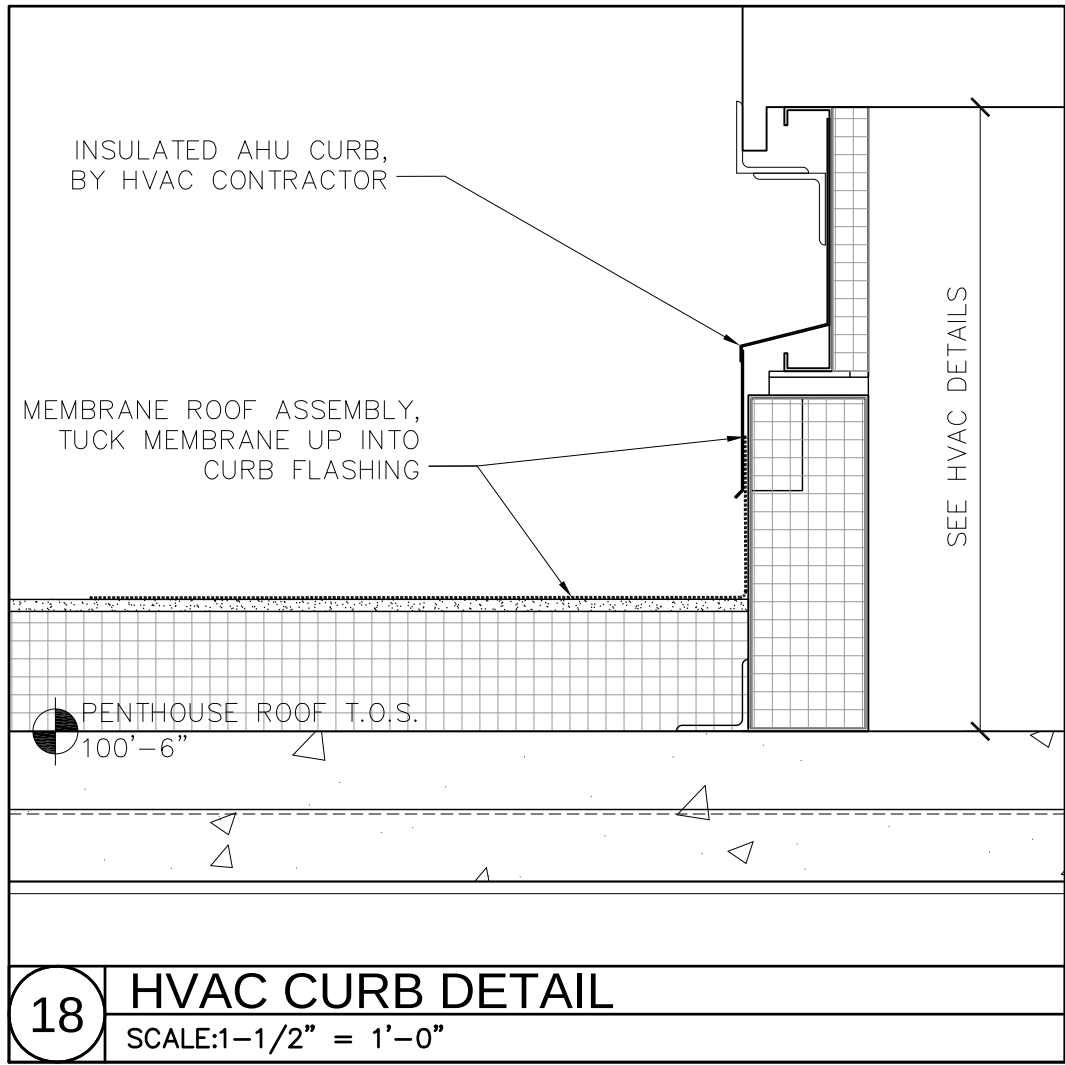
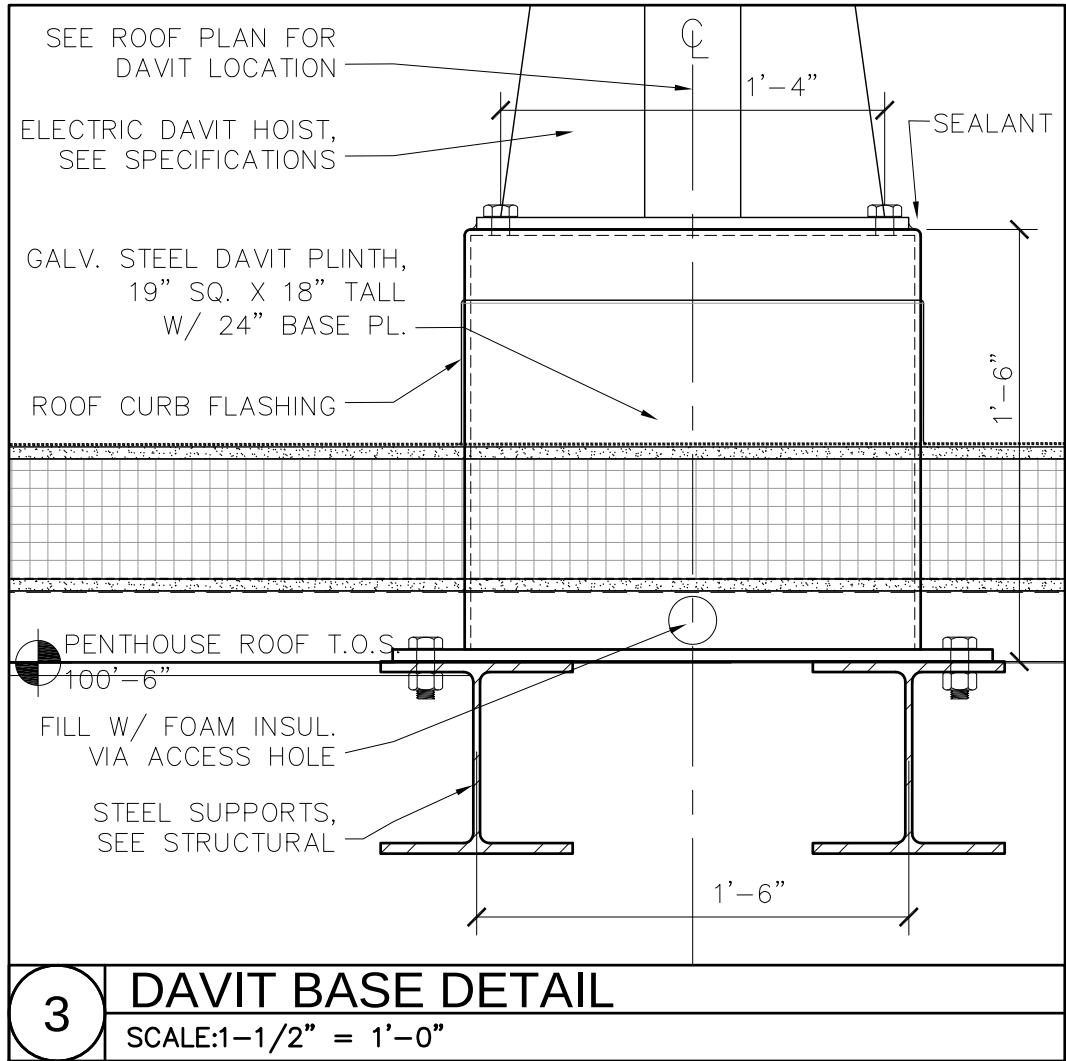
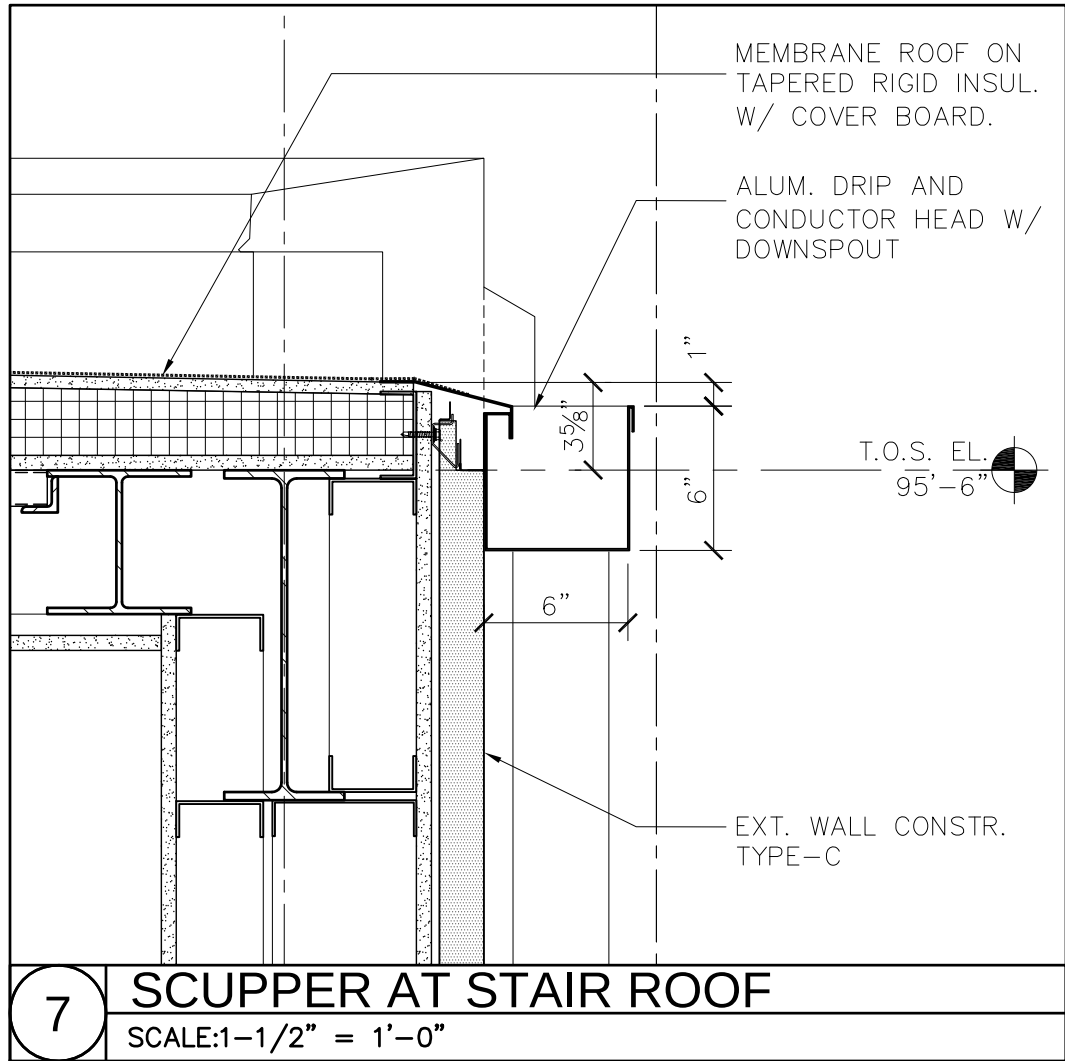
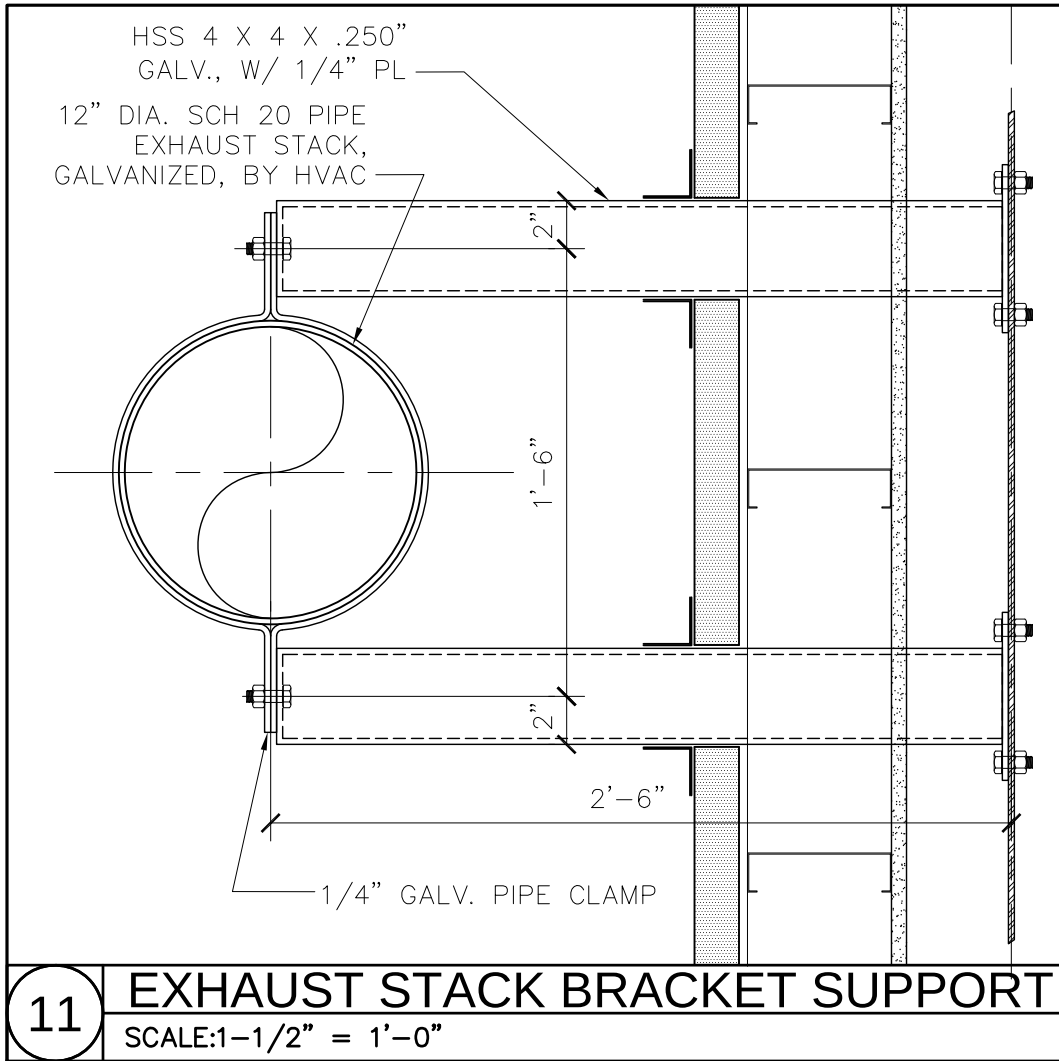
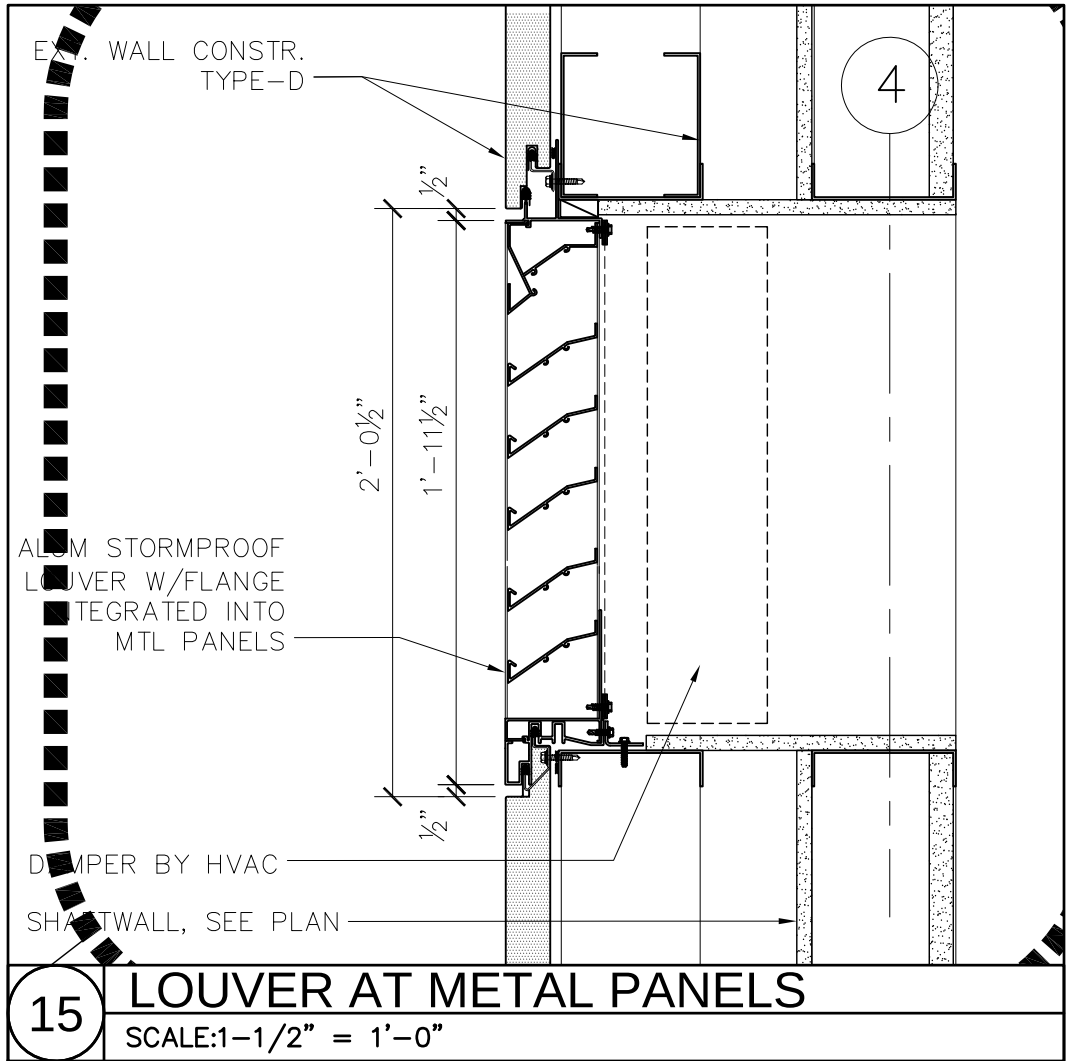
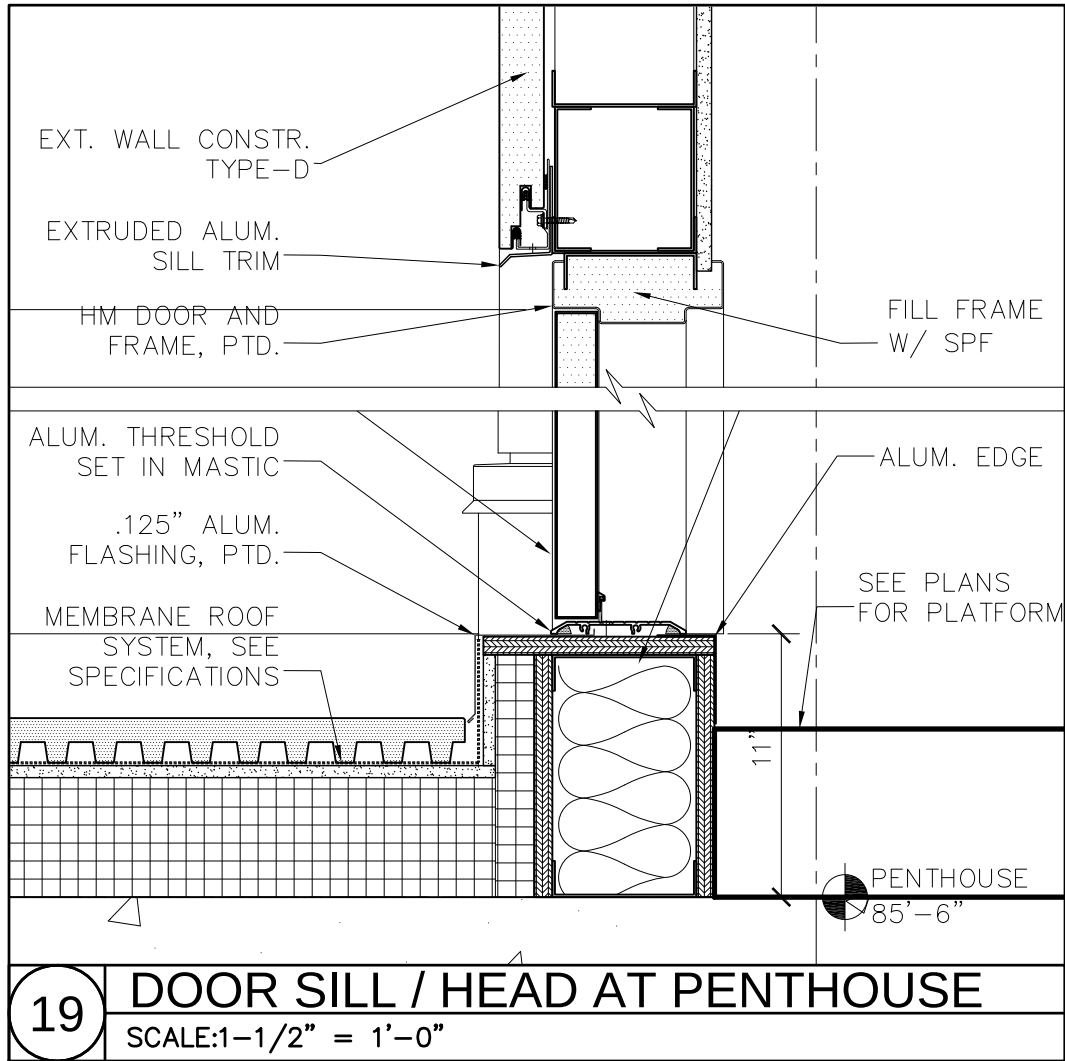
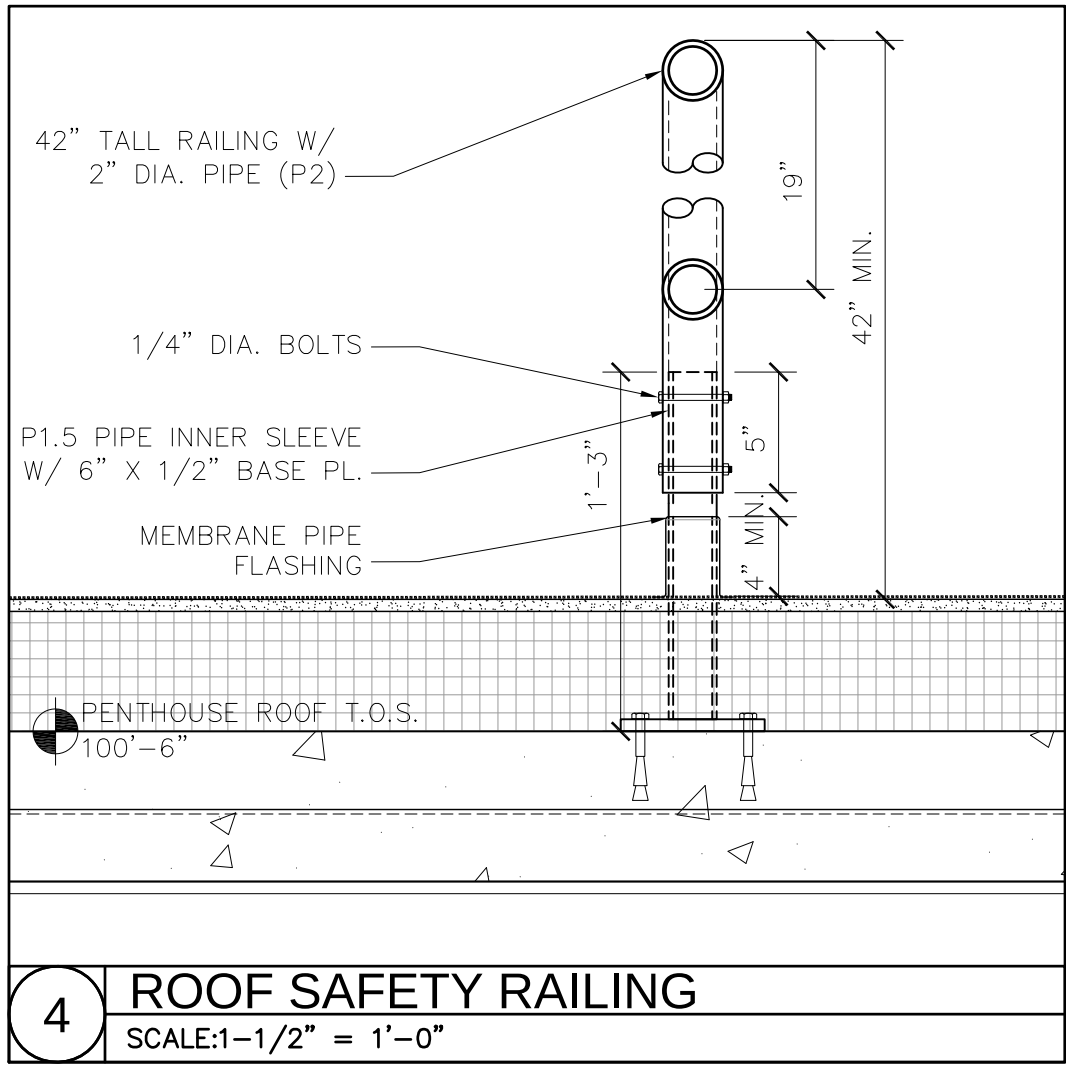
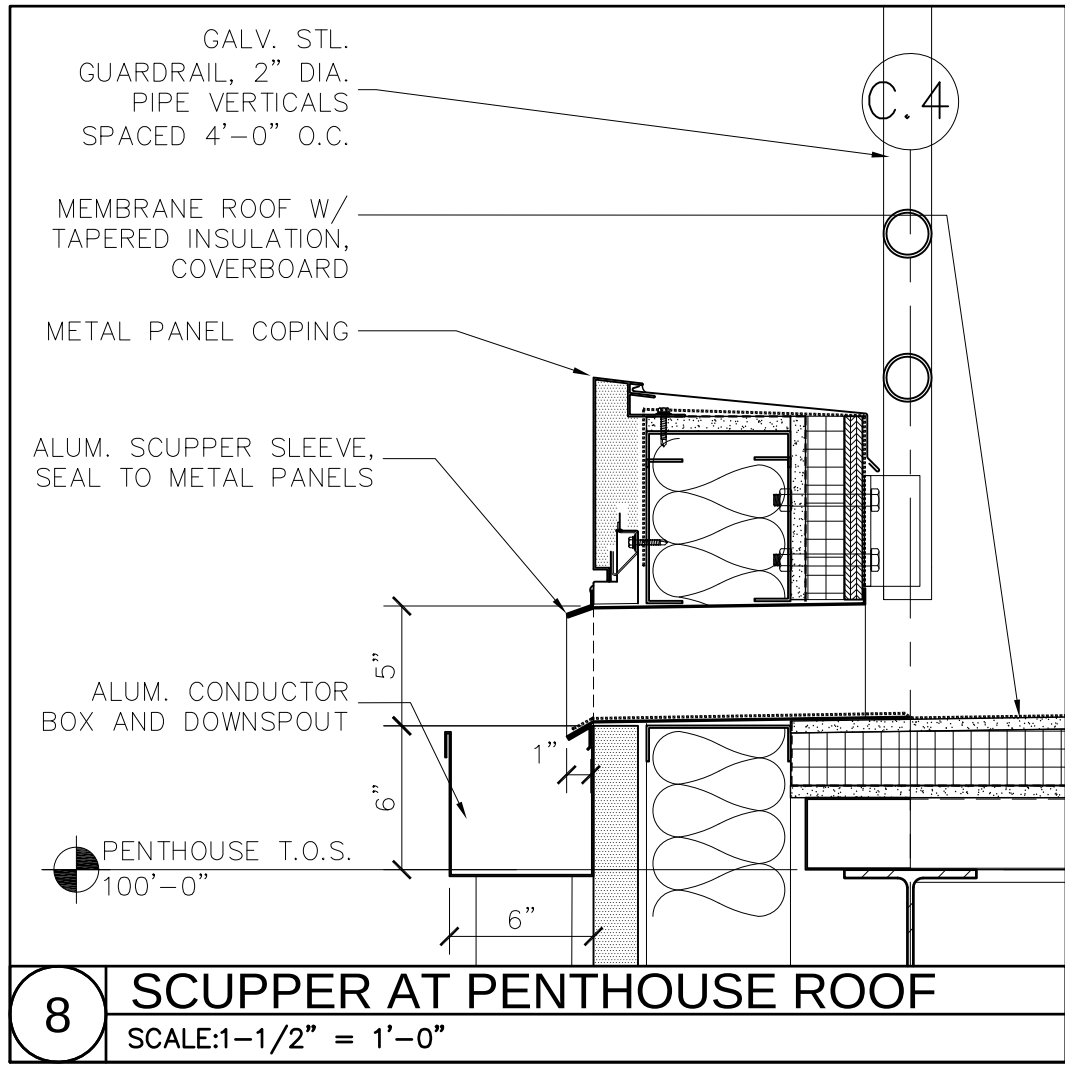
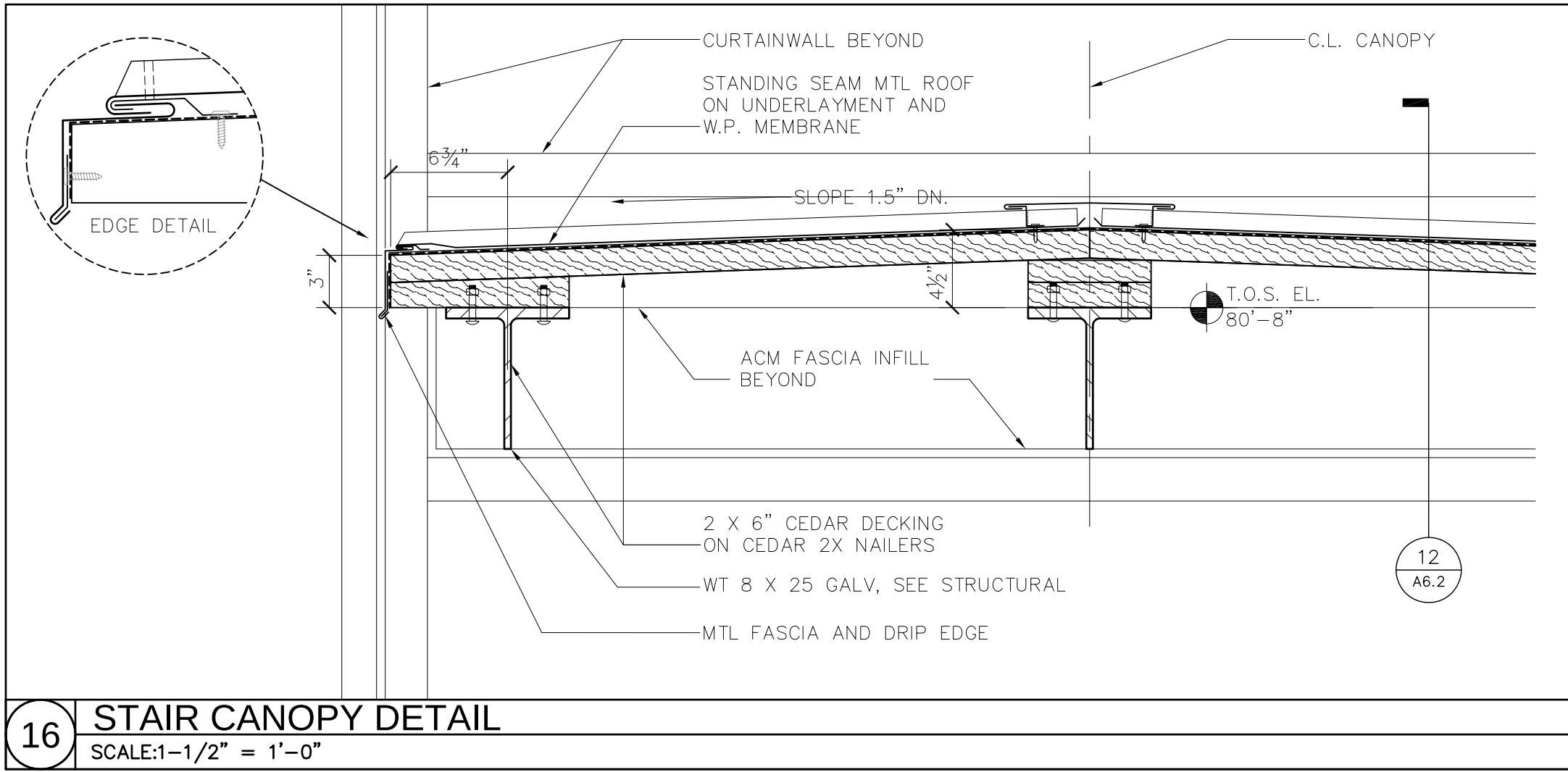
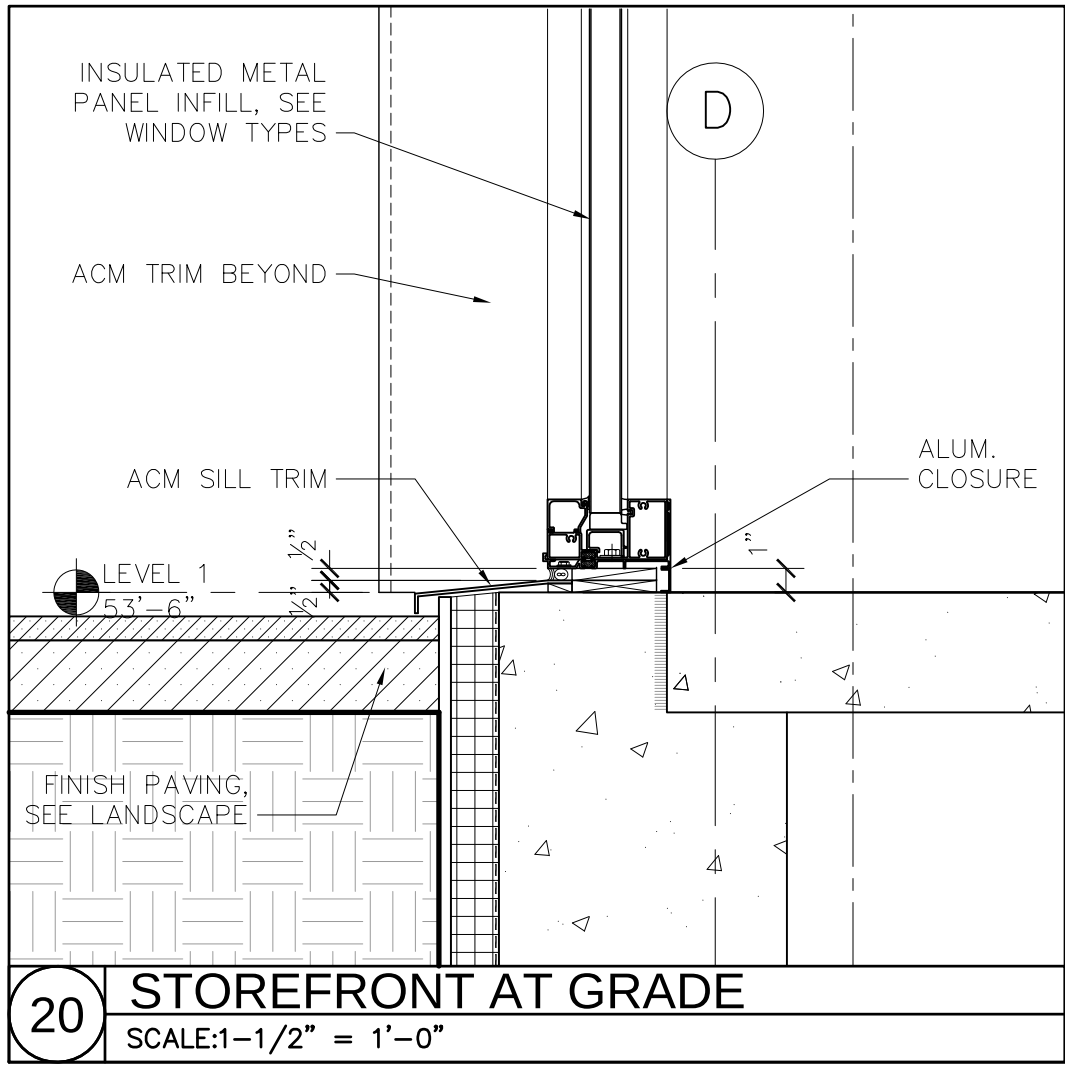
Notes:

1. ALL STAINLESS STEEL SHALL BE 316 MARINE GRADE.
2. ALL STEEL COMPONENTS OTHER THAN STAINLESS STEEL SHALL BE GALVANIZED.
3. ALL STEEL ASSEMBLY REQUIRING WELDING, SHALL BE DONE A SHOP ENVIRONMENT, UNDER CONTROLLED CONDITIONS; FIELD WELDING IS UNACCEPTABLE.
4. ALL FASTENERS SHALL BE SQUARE DRIVE 316 SS
5. ALL BOLTS, WASHERS, NUTS TO BE HIGH STRENGTH 316 SS
6. SHIP ACCORD TO AREA.
7. ALL PRESSURE TREATED WOOD SHALL BE SEPARATED FROM GALVANIZED STEEL BY A BARRIER MEMBRANE; NO EXCEPTIONS.
8. BOTH IPE AND WESTERN RED CEDAR DECKING/ PLANKING SHALL BE AIR DRIED TO A MOISTURE CONTENT OF 12-15% AND STATIONED ON SITE IN A COVERED, EXTERIOR LOCATION A MINIMUM OF THREE WEEKS PRIOR TO INSTALLATION.
9. ALL WOOD DECKING AND SOFFIT PLANKING SHALL BE END SEALED WITH ANCHOR SEAL CLEAR WAX TO PREVENT CHECKING.
10. PRE-DRILLING IPE DECKING IS MANDATORY PRIOR TO INSTALLING SS FASTENERS. ANY SPLITTING OF BOARDS DUE TO FAULTY INSTALLATION WILL RESULT IN THEIR REJECTION.

A6.6



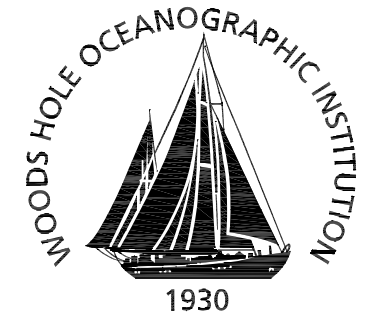
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(978) 664-9500

Notes:

EXTERIOR WALL ASSEMBLY TYPES:

- 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON SRAB MEMBRANE AND 1/2" EXTERIOR SHEATHING ON 6" METAL FRAMING.
- 5/4 CEDAR SIDING ON 1.5" P.T. WD. BATTENS ON 2" GALV Z-FURRING W/ 2" RIGID INSULATION, ON CONC. FOUNDATION WALL W/W.P. MEMBRANE.
- 2" INSULATED METAL PANELS ON 5/8" TYPE-X GWB SHEATHING ON 6" METAL FRAMING. (1-HR ASSEMBLY)
- 2" INSULATED METAL PANELS ON 6" METAL FRAMING.

Job Number 31003
Drawing By -
Checked By -
Filename 31003-A6.7 MISCELLANEOUS DETAILS
Date 15 APRIL 2011

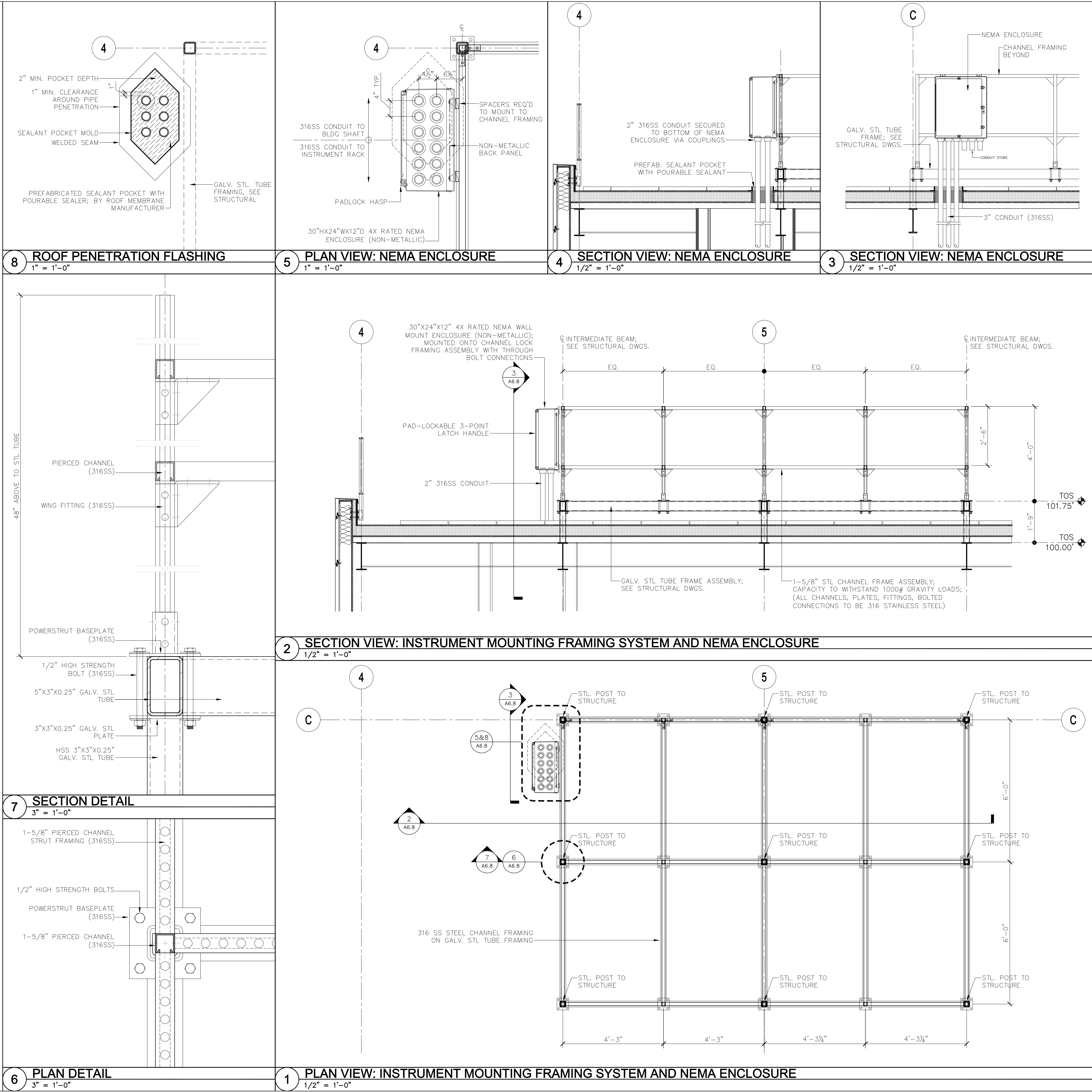
Revisions

MISCELLANEOUS DETAILS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A6.7

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- Notes:
1. ALL STRUCTURAL STEEL FRAMING SHALL BE HOT-DIPPED GALVANIZED WITH THICKEST COATING AVAILABLE.
 2. ALL STEEL CHANNEL FRAMING, FITTINGS, BASEPLATES, FASTENERS, ETC. BY "POWERSTRUT" OR EQUAL.
 3. ALL STEEL CHANNEL FRAMING SHALL WITHSTAND A MIN. GRAVITY LOAD OF 1000#; WITH A WIND LOAD SUBJECT TO LOCAL CODES
 4. ALL STEEL CHANNEL FRAMING AND SUPPLEMENTAL COMPONENTS SHALL BE 316 STAINLESS STEEL; NO EXCEPTIONS
 5. NEMA ENCLOSURE SHALL BE RATED 4X IN NON-METALLIC FINISH; NO EXCEPTIONS.
 6. ALL ELECTRICAL CONDUIT SHALL BE 316 STAINLESS STEEL; NO EXCEPTIONS.



Job Number 31003
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Filename 31003-A6.8
Date 15 APRIL 2011

Revisions

MISCELLANEOUS DETAILS

CONSTRUCTION DOCUMENTS
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A6.8

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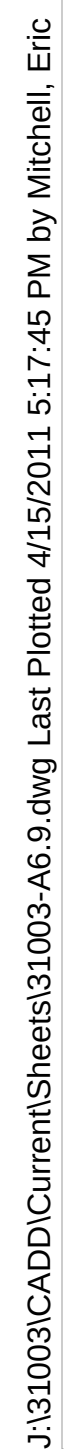

 TN
 PN

Keyplan

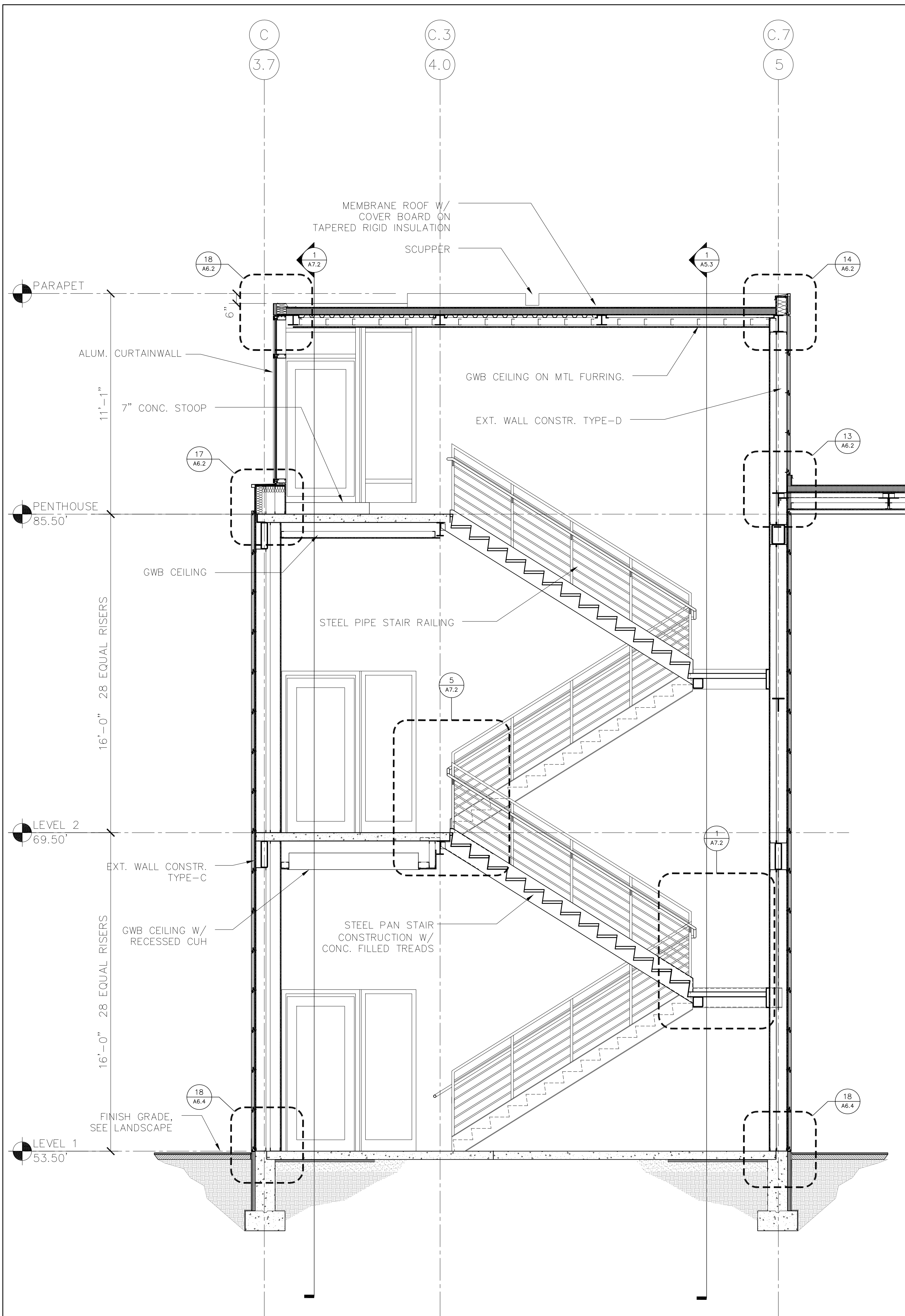
Revisions

CONSTRUCTION DOCUMENTS
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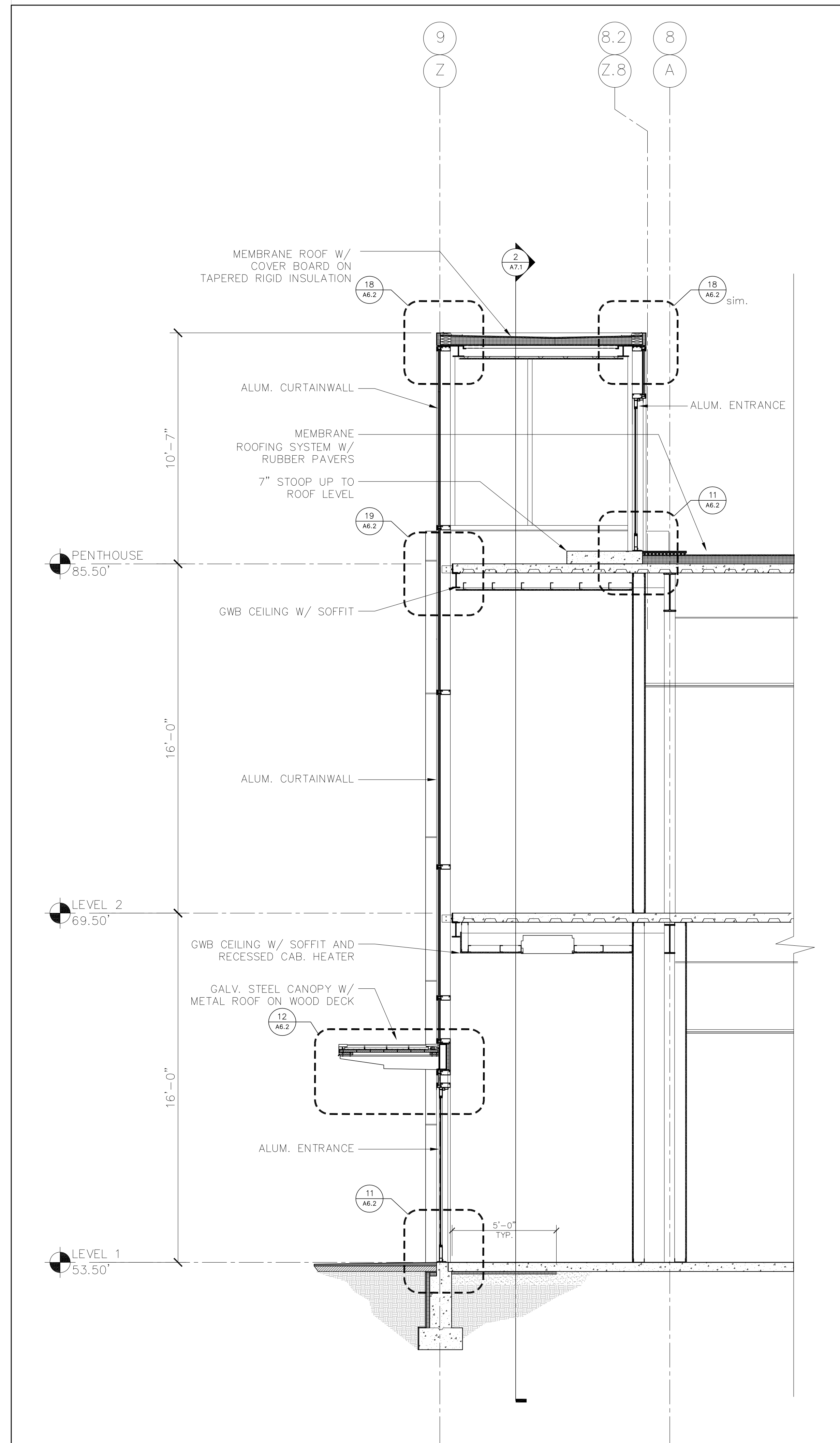
2011 Ellenzweig ©



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2 STAIR 1 SECTION (STAIR 2 SIM.)
SCALE: 3/8" = 1'-0"

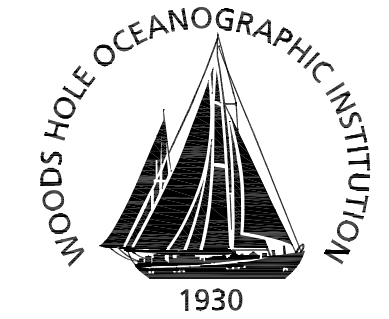


1 STAIR 1 SECTION (STAIR 2 SIM.)
SCALE: 3/8" = 1'-0"

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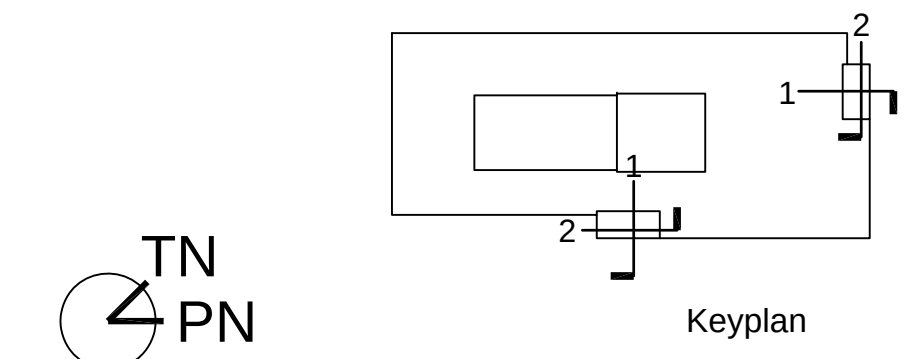
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Notes:



Job Number	31003
Drawing By	TAK
Checked By	EM
Filename	31003-A7.1
Date	15 APRIL 2011

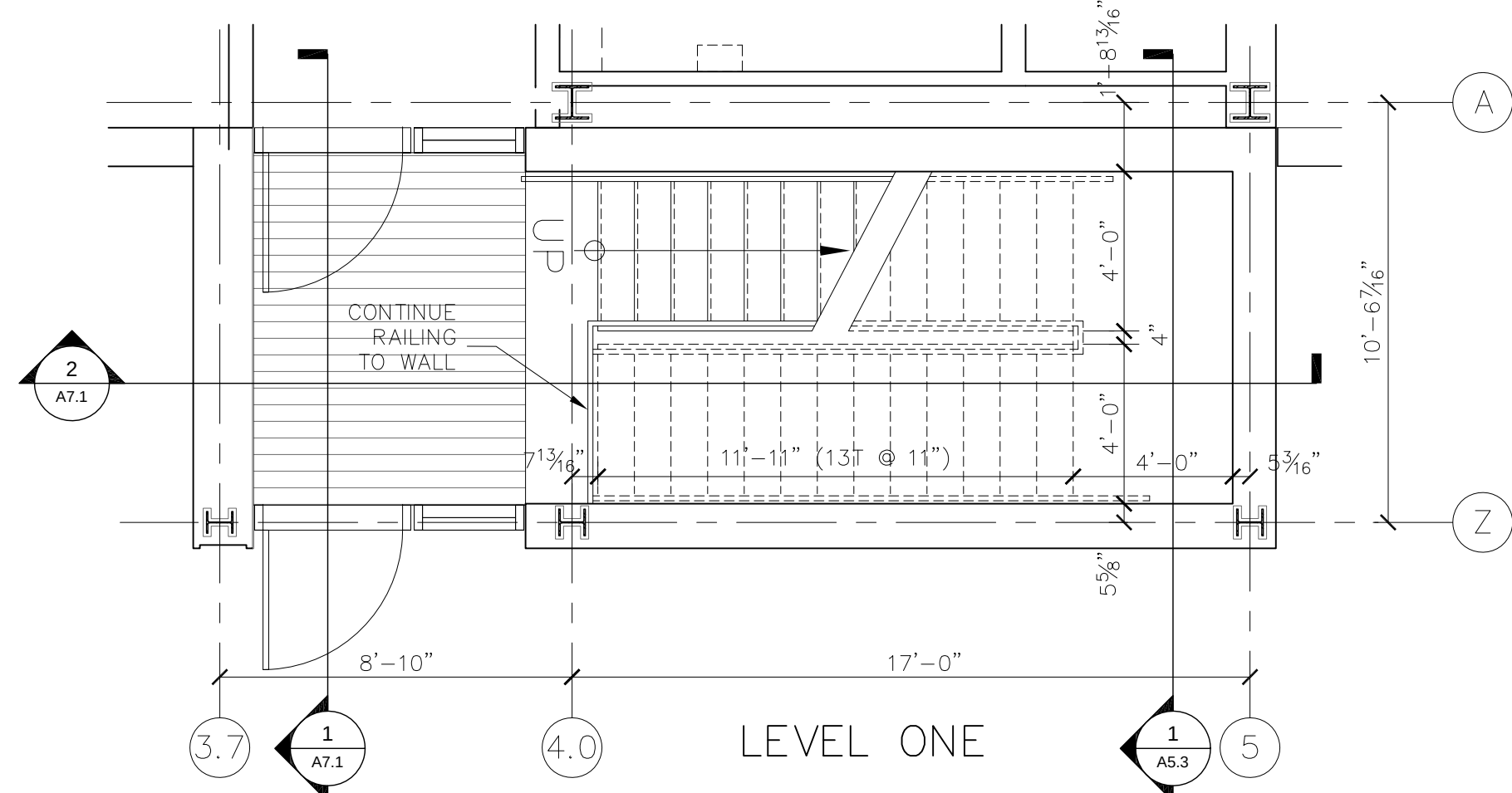
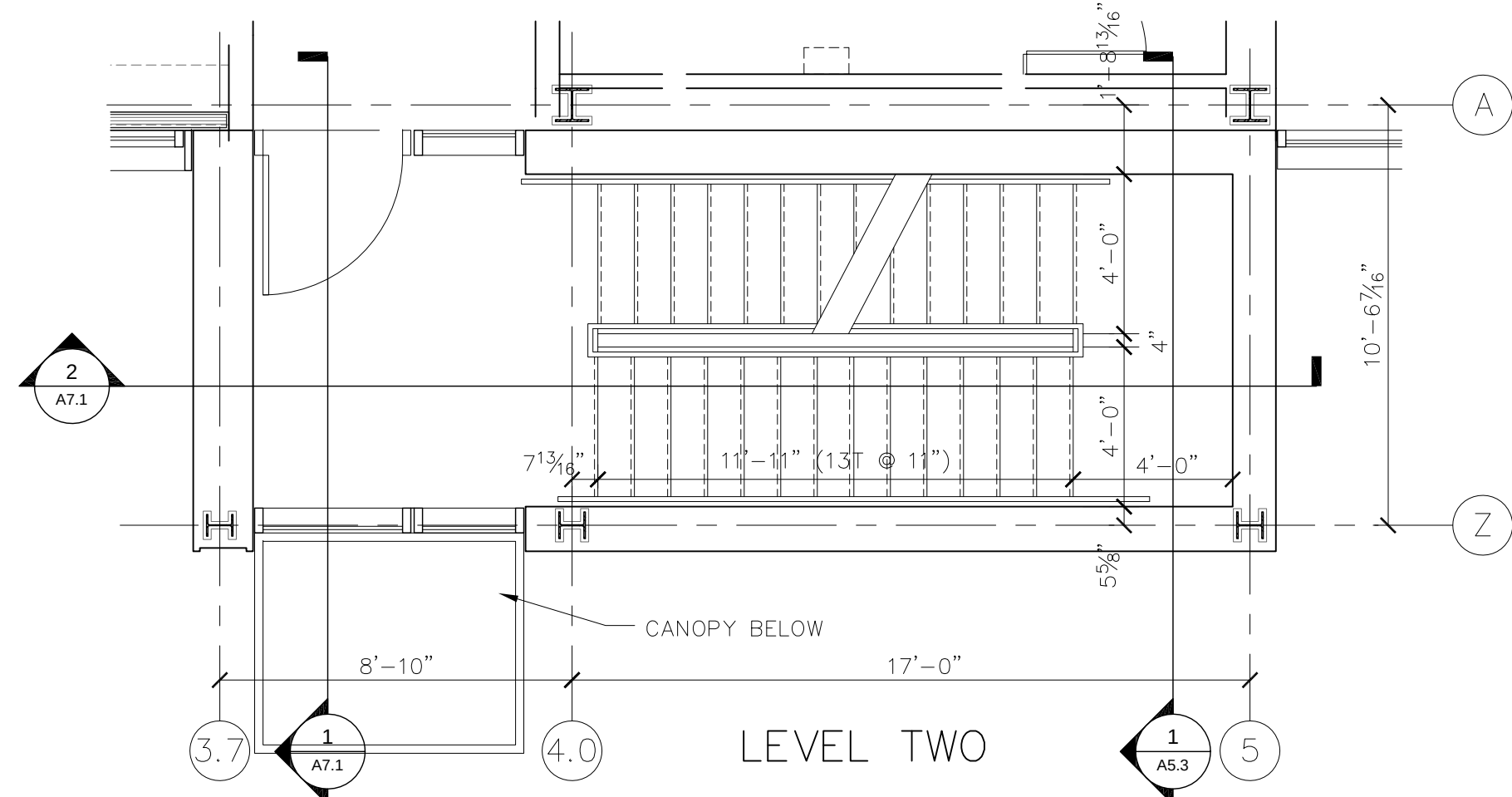
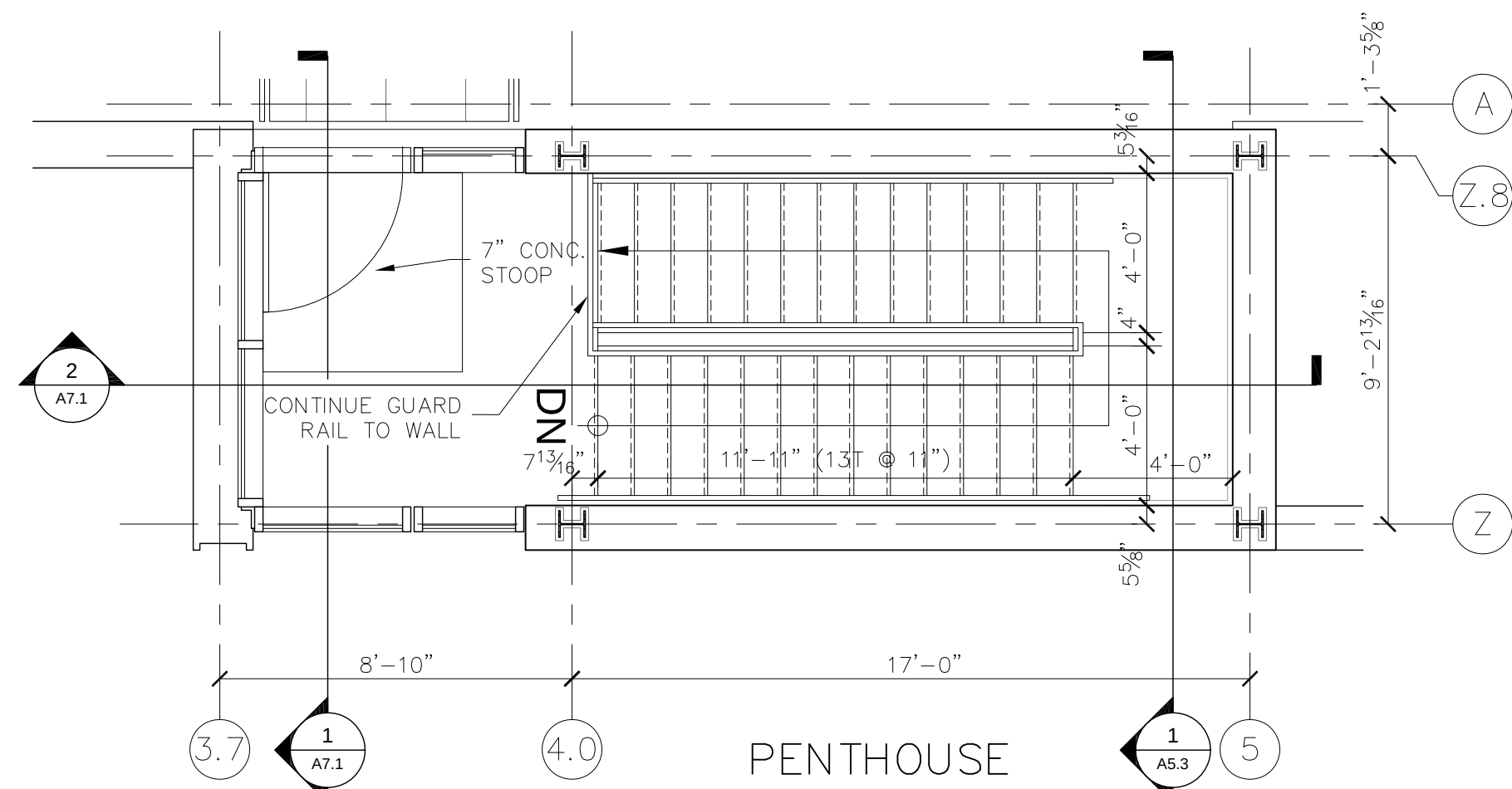
Revisions

STAIR SECTIONS

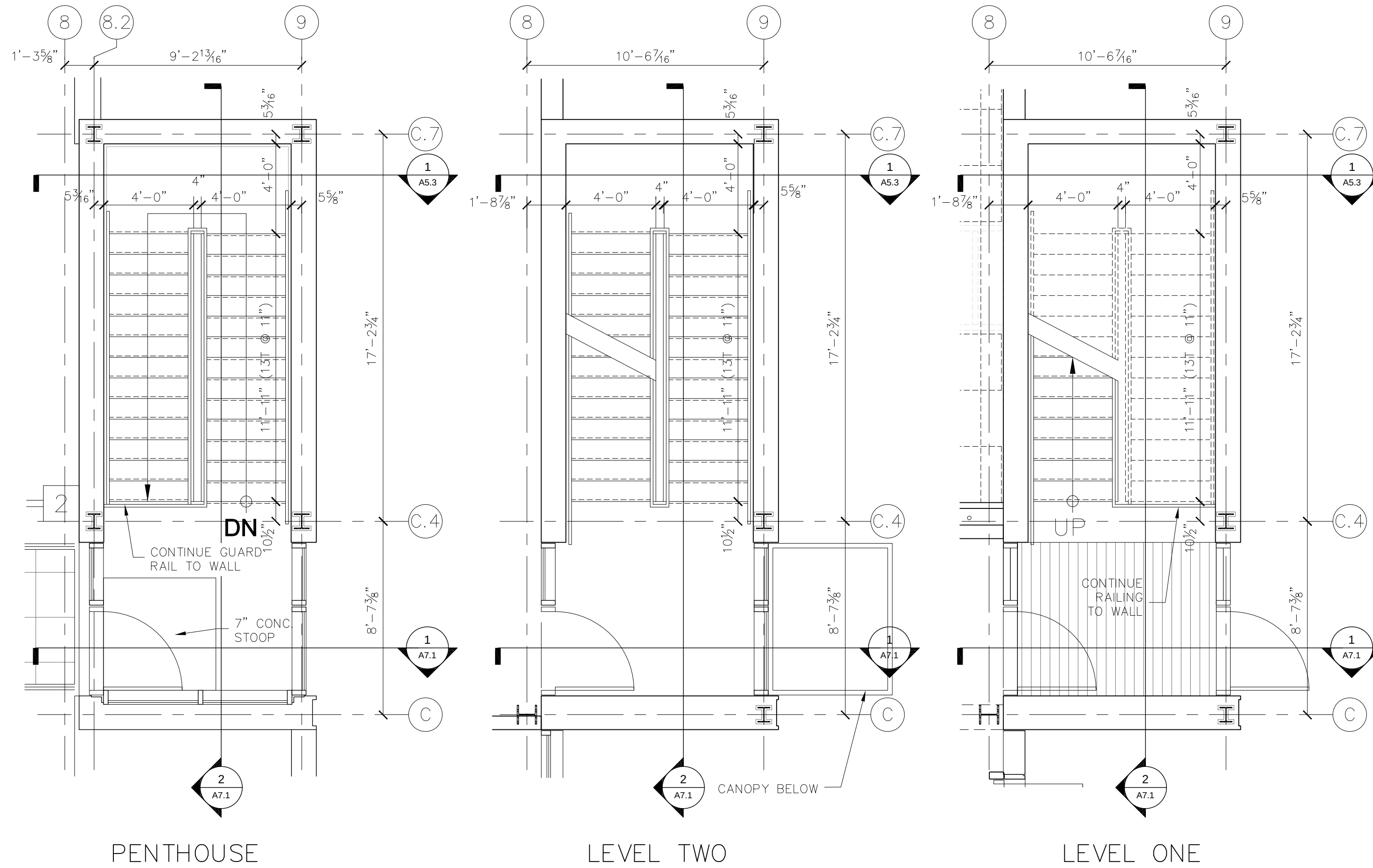
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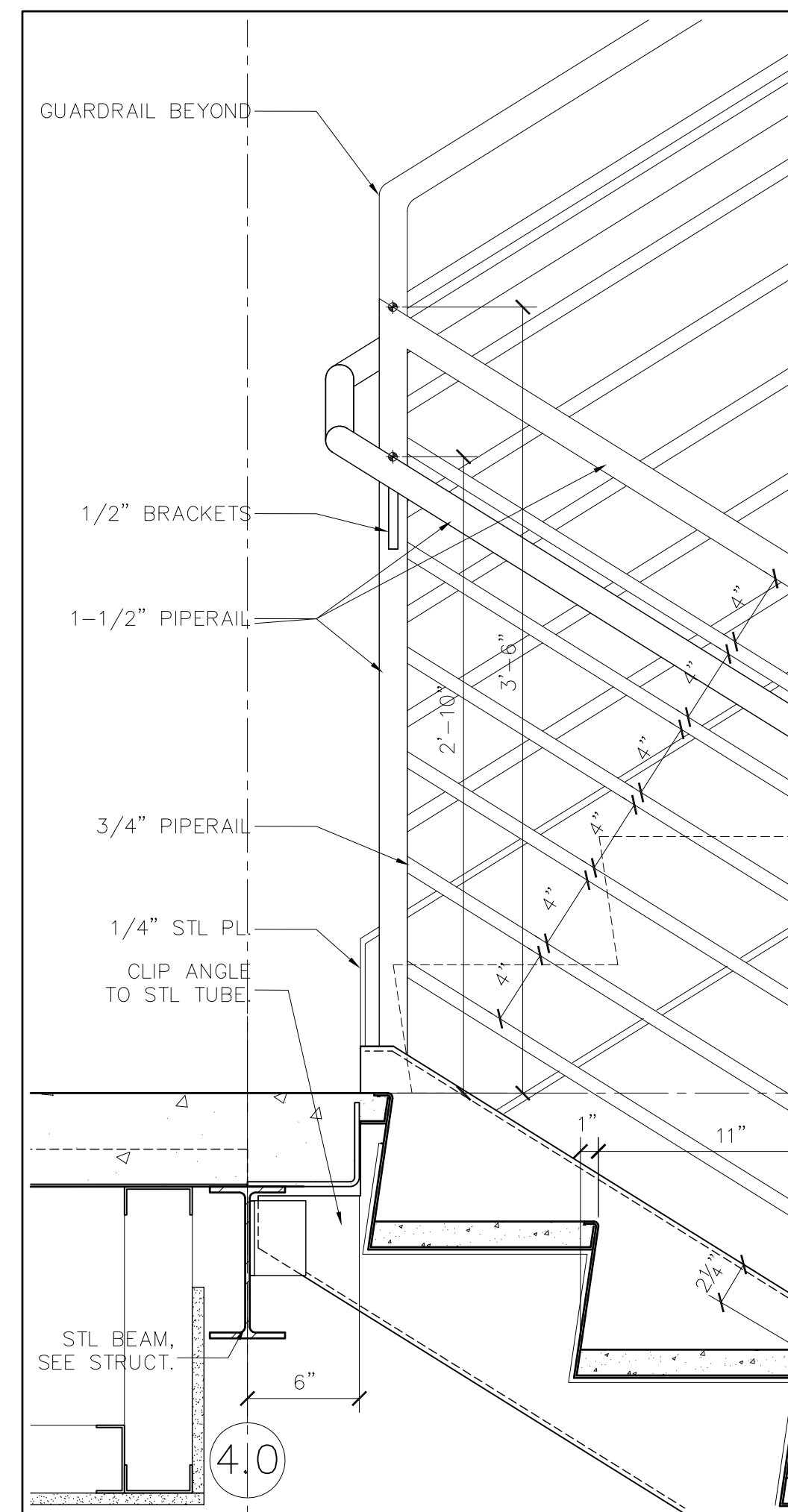
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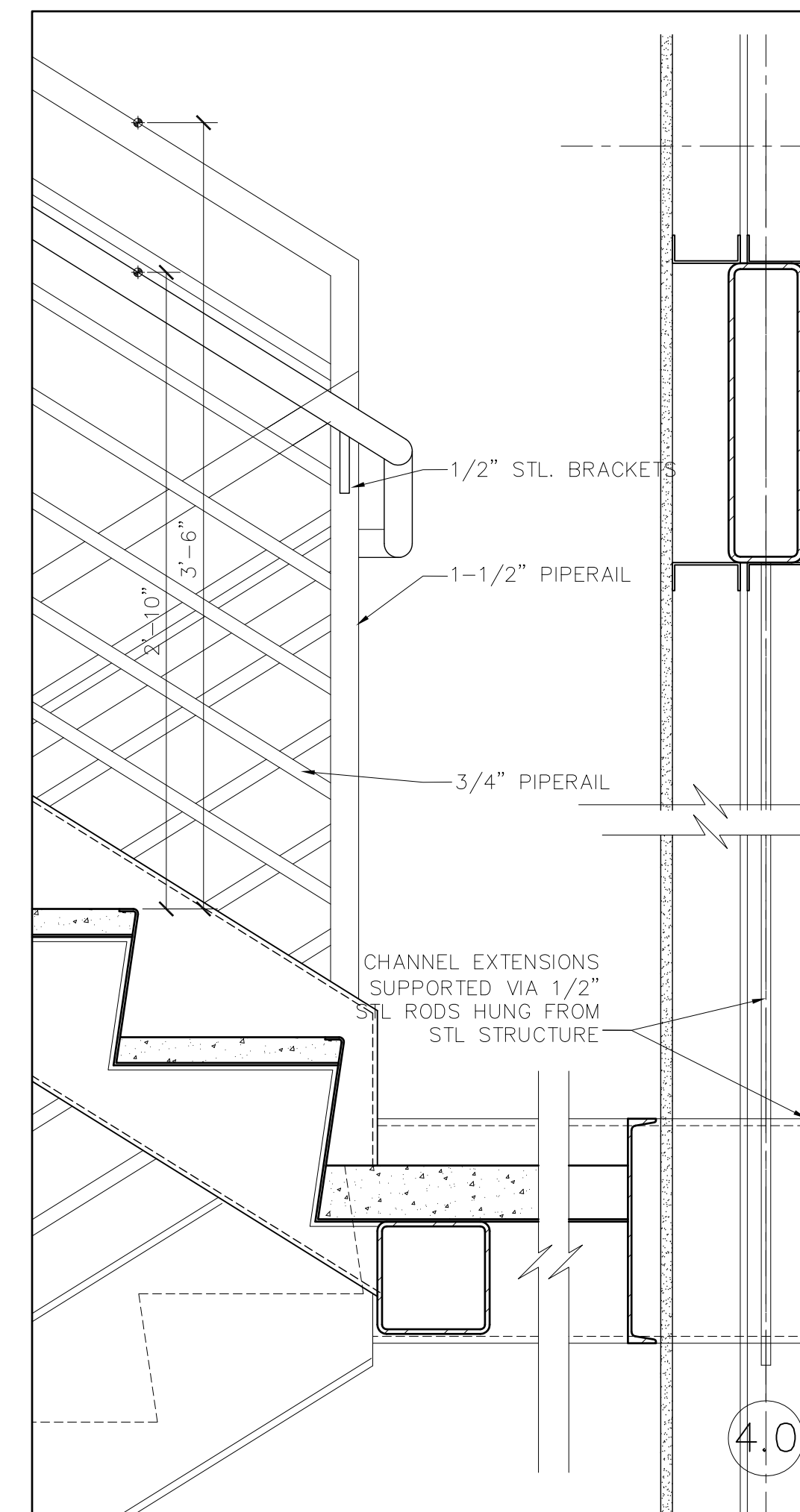
18 STAIR 2 ENLARGED PLANS
SCALE: 1/4" = 1'-0"



11 STAIR 1 ENLARGED PLANS
SCALE: 1/4" = 1'-0"



5 STAIR 1 & 2 DETAIL @ MAIN LANDING
SCALE: 1-1/2" = 1'-0"

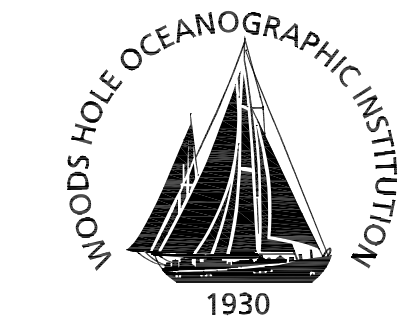


1 STAIR 1 & 2 DETAIL @ MID LANDING
SCALE: 1-1/2" = 1'-0"

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Job Number 31003
Drawing By TAK
Checked By EM
Filename 31003-A7.2
Date 15 APRIL 2011

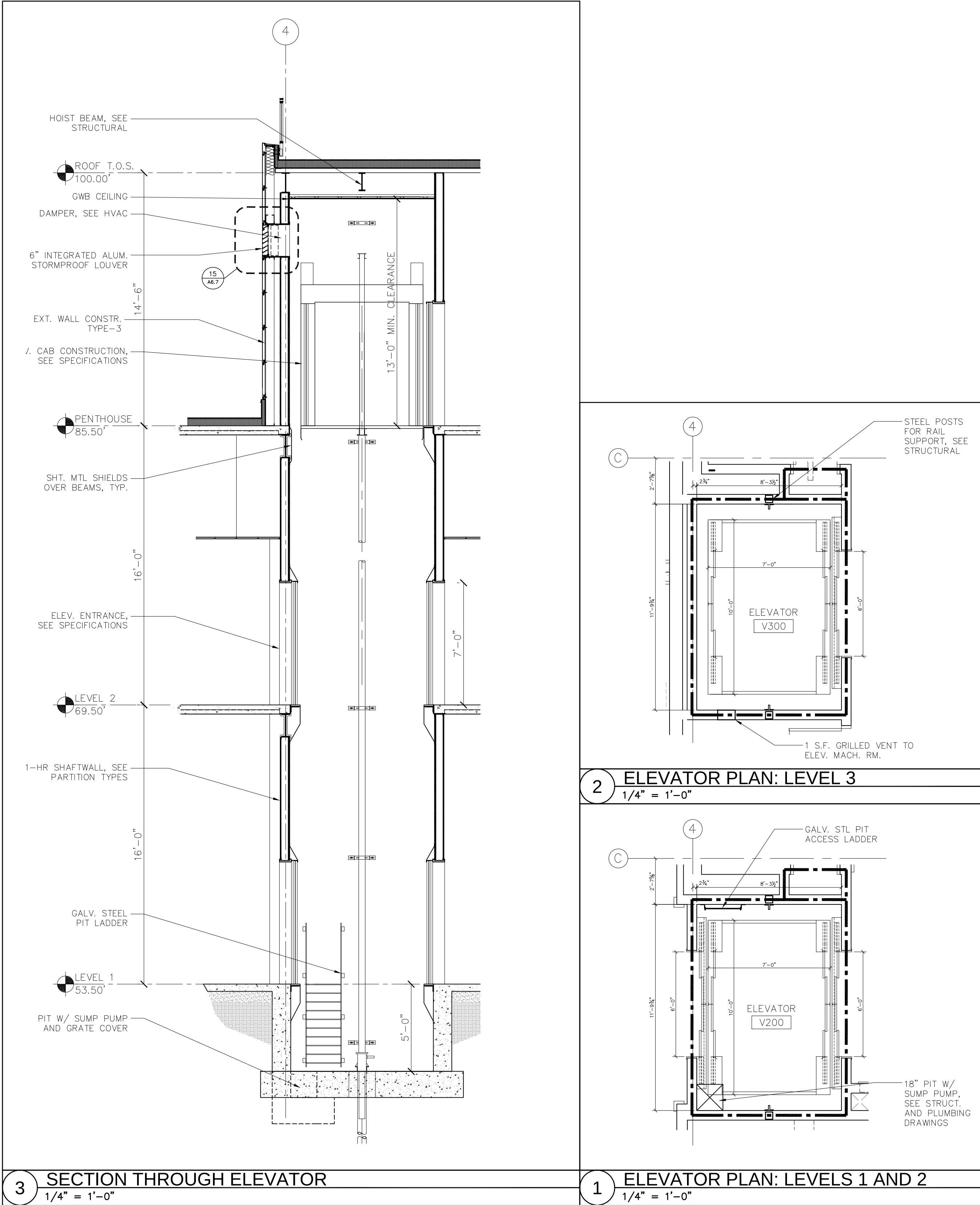
Revisions

STAIR SECTIONS AND PLANS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A7.2

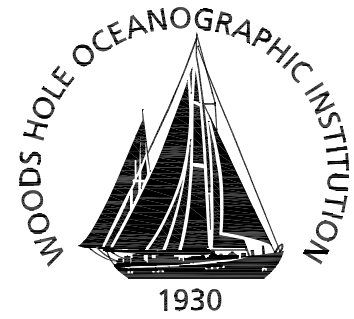
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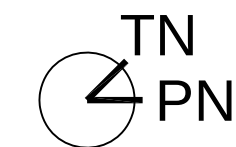
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Notes:



Keyplan

Job Number	31003
Drawing By	TAK
Checked By	EM
Filename	31003-A7.3
Date	15 APRIL 2011

Revisions

ELEVATOR PLANS
SECTIONS AND DETAILS

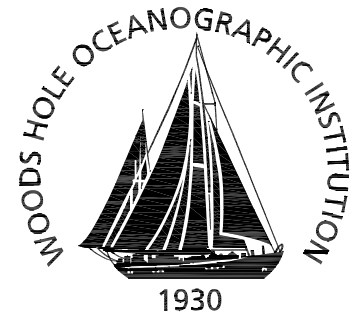
CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A7.3

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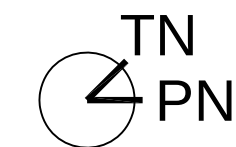
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Notes:



Keyplan

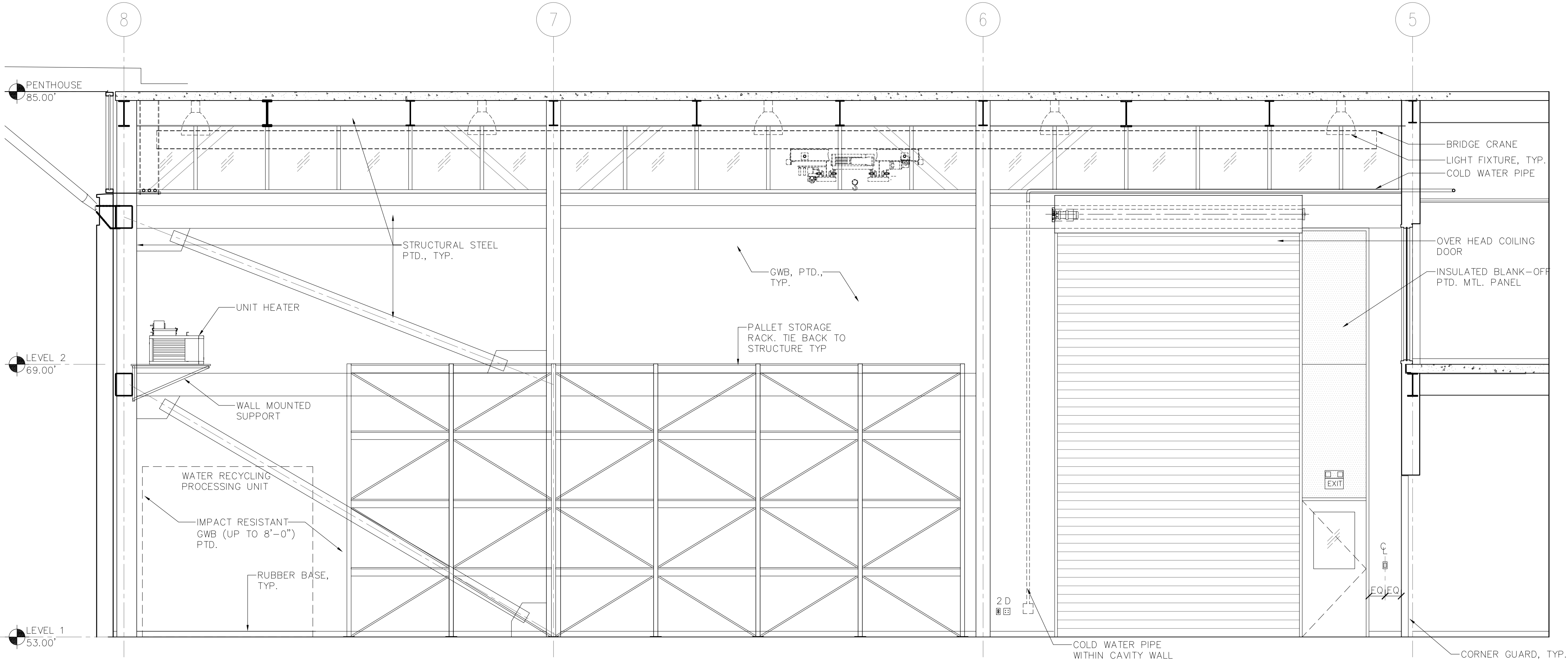
Job Number 31003
Drawing By SR, GC
Checked By NC, ESM
Filename 31003-A8.1
Date 15 APRIL 2011

Revisions

INTERIOR ELEVATIONS

0 2' 4' 8' CONSTRUCTION DOCUMENTS
Scale: 1/4" = 1'-0"
SCALE: 1/4" = 1'-0"

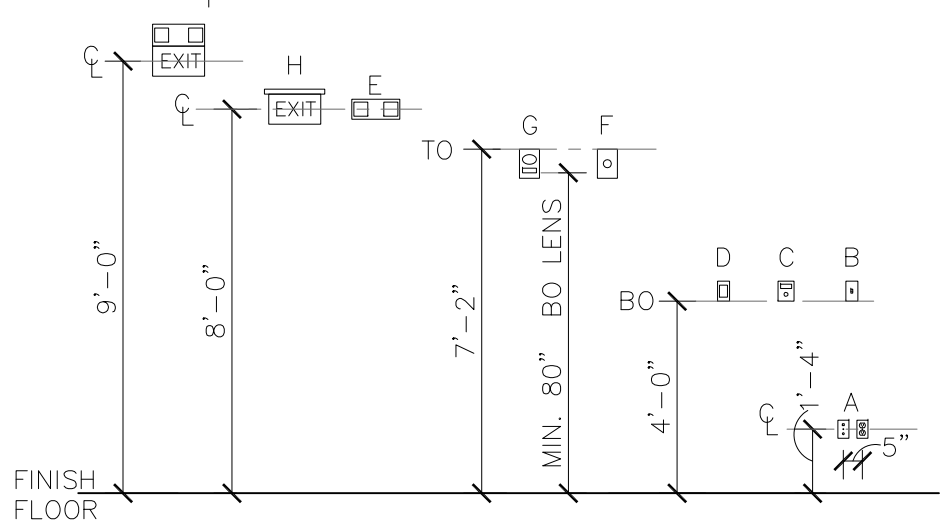
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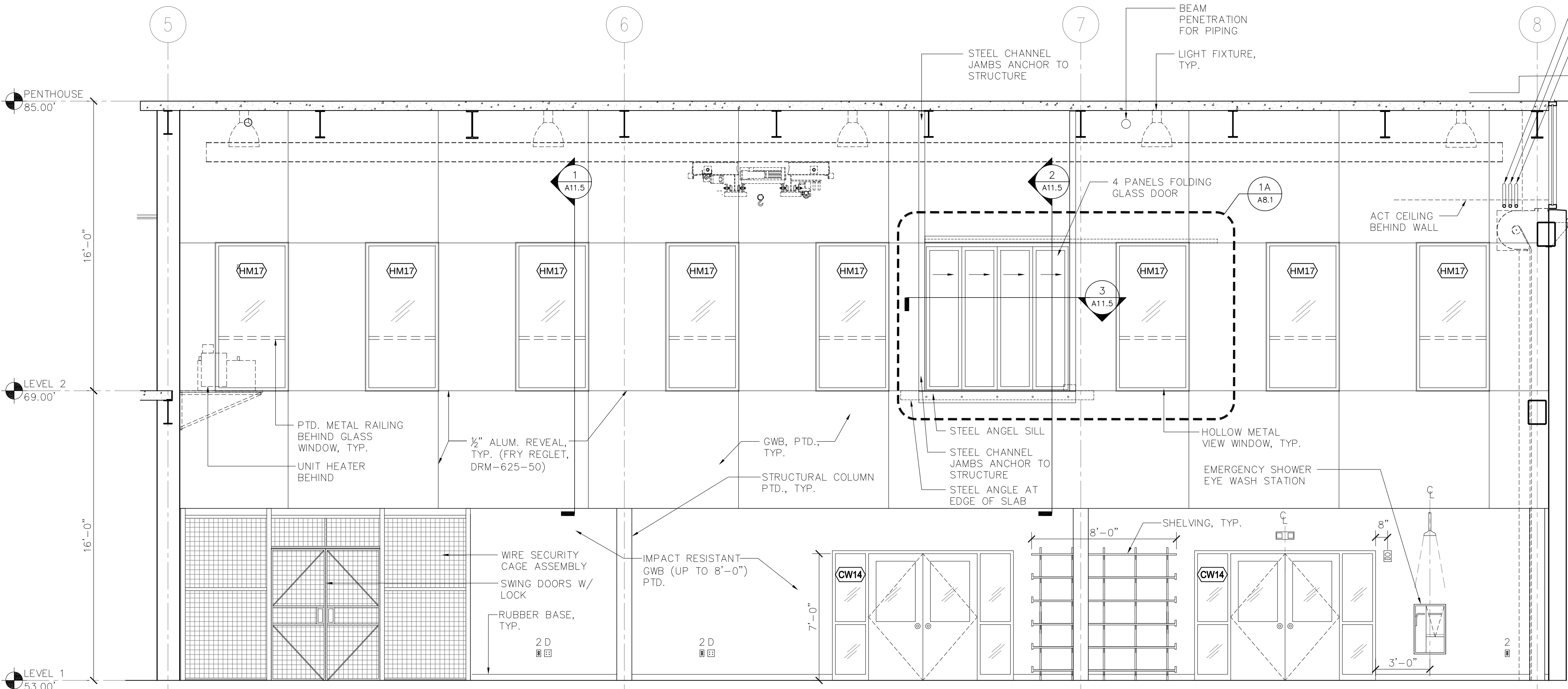
2 BUOY/MOORING PREP AND MAINTENANCE ROOM 101 - EAST ELEVATION
1/4" = 1'-0"

SCHEDULE	
A	POWER AND DATA
B	SWITCH
C	THERMOSTAT
D	MANUAL PULL
E	EMERGENCY BATTER UNIT
F	REMOTE ALARM INDICATOR
G	WALL MOUNTED VISUAL/AUDIO APPLIANCE
H	EXIT SIGN
I	EXIT SIGN W/ EMERGENCY LIGHT

NOTE: TYPICAL MOUNTING HEIGHT
EXCEPT AS NOTED ON INTERIOR ELEVATIONS.



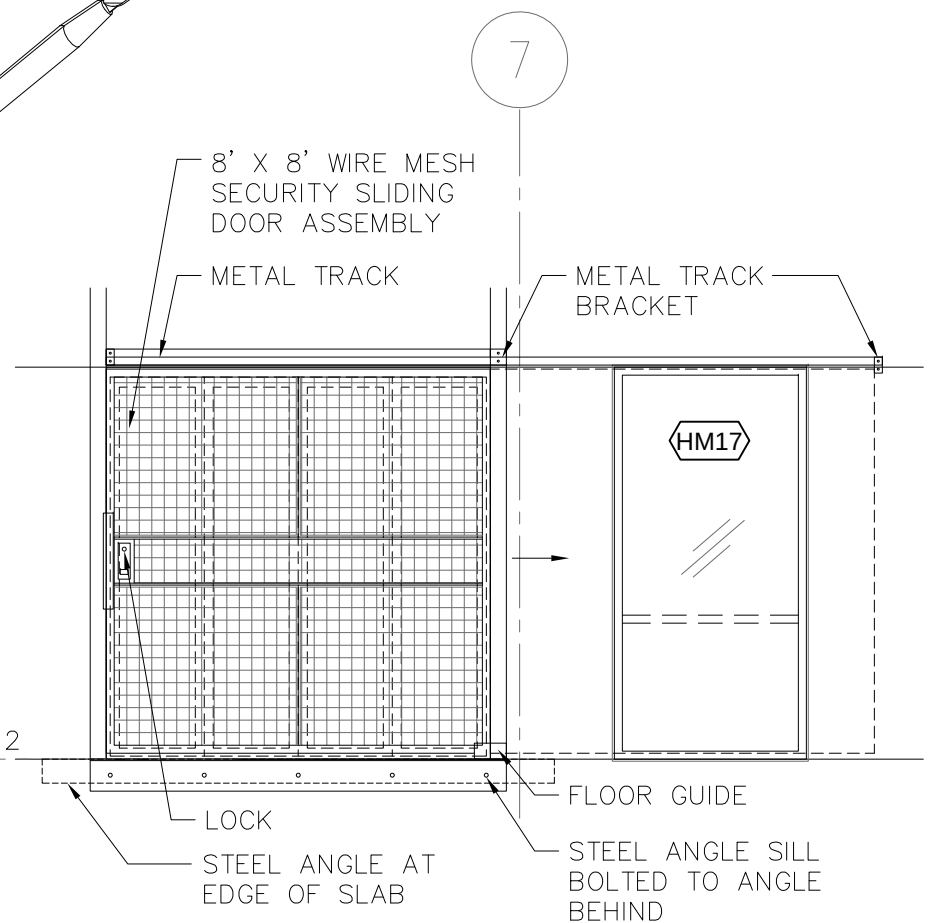
2A TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"



1 BUOY/MOORING PREP AND MAINTENANCE ROOM 101 - WEST ELEVATION
1/4" = 1'-0"

NOTE: SECURITY SLIDING GATE INSTALL IN
FRONT OF 4 PANELS FOLDING GLASS DOOR

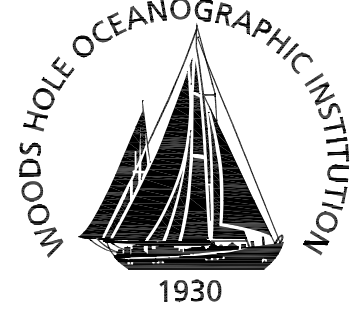
1A SECURITY SLIDING GATE
1/4" = 1'-0"



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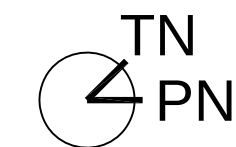
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(978) 664-9500

Notes:



Keyplan

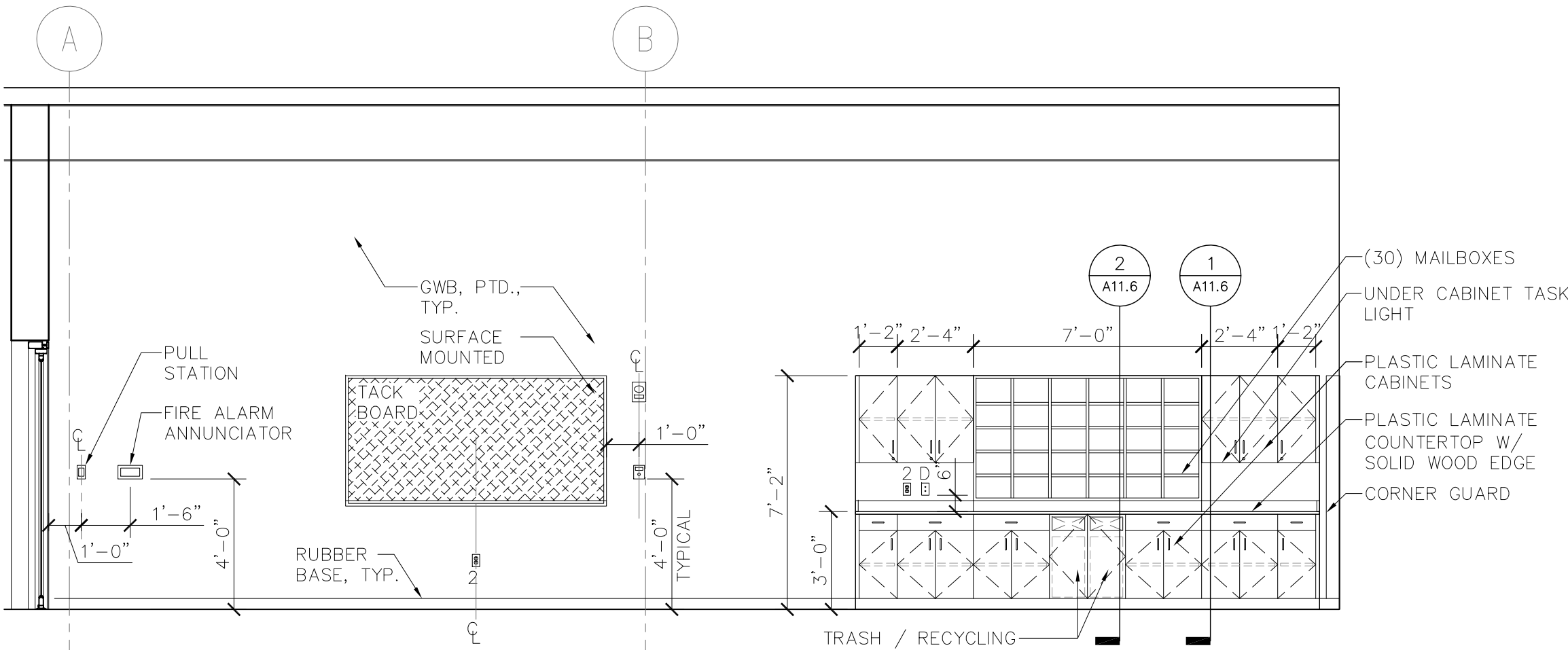
Job Number 31003
Drawing By SR, GC
Checked By NC, ESM
Filename 31003-A8.2
Date 15 APRIL 2011

Revisions

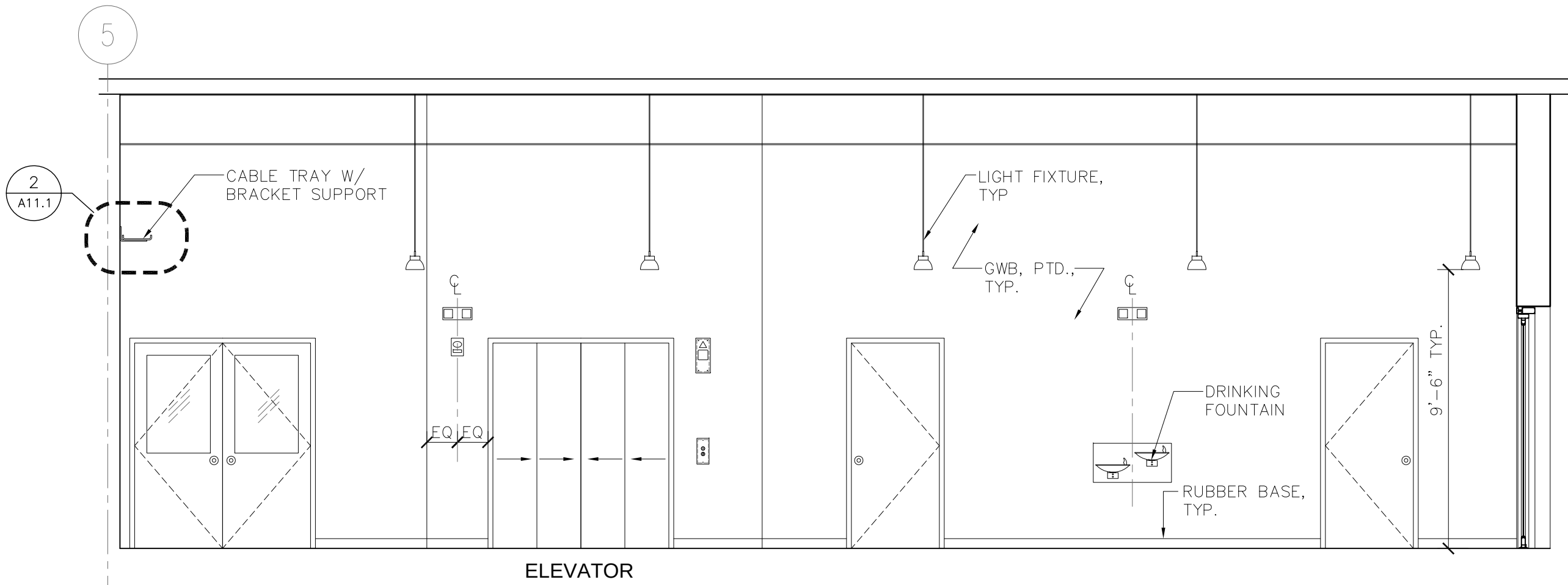
INTERIOR ELEVATIONS

0 2' 4' 8' CONSTRUCTION DOCUMENTS
Scale: 1/4" = 1'-0"
SCALE: 1/4" = 1'-0"

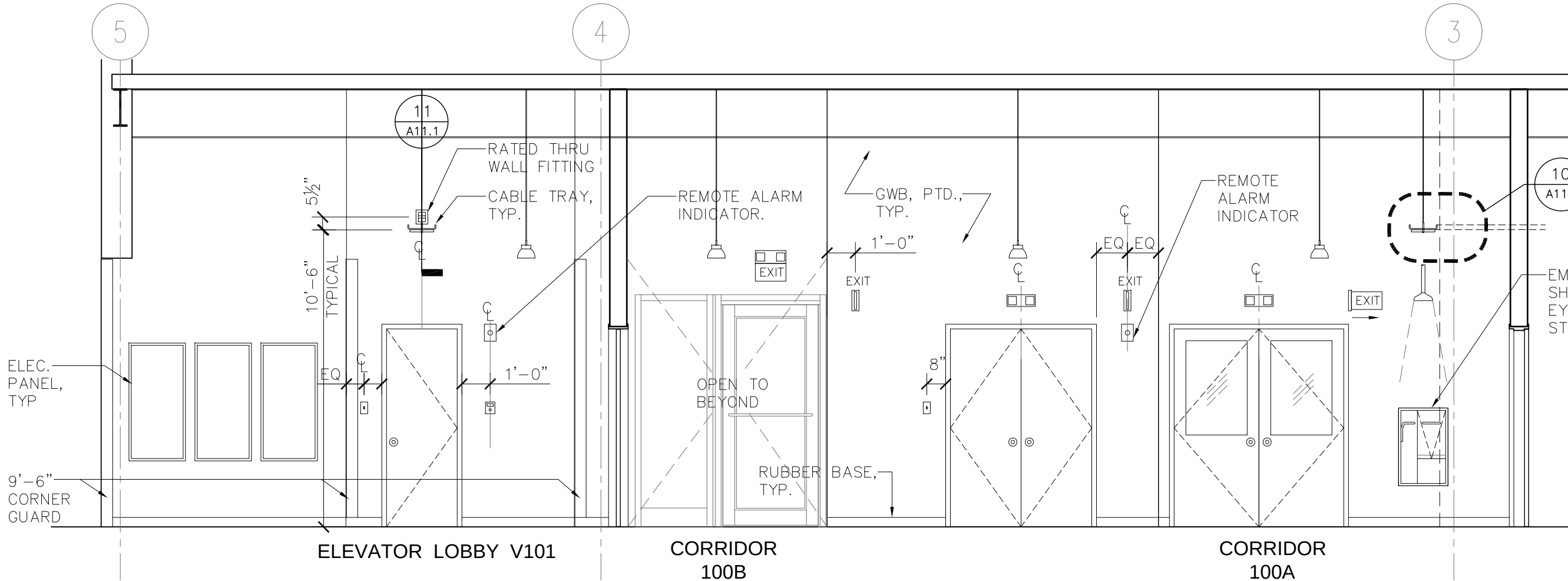
A8.2



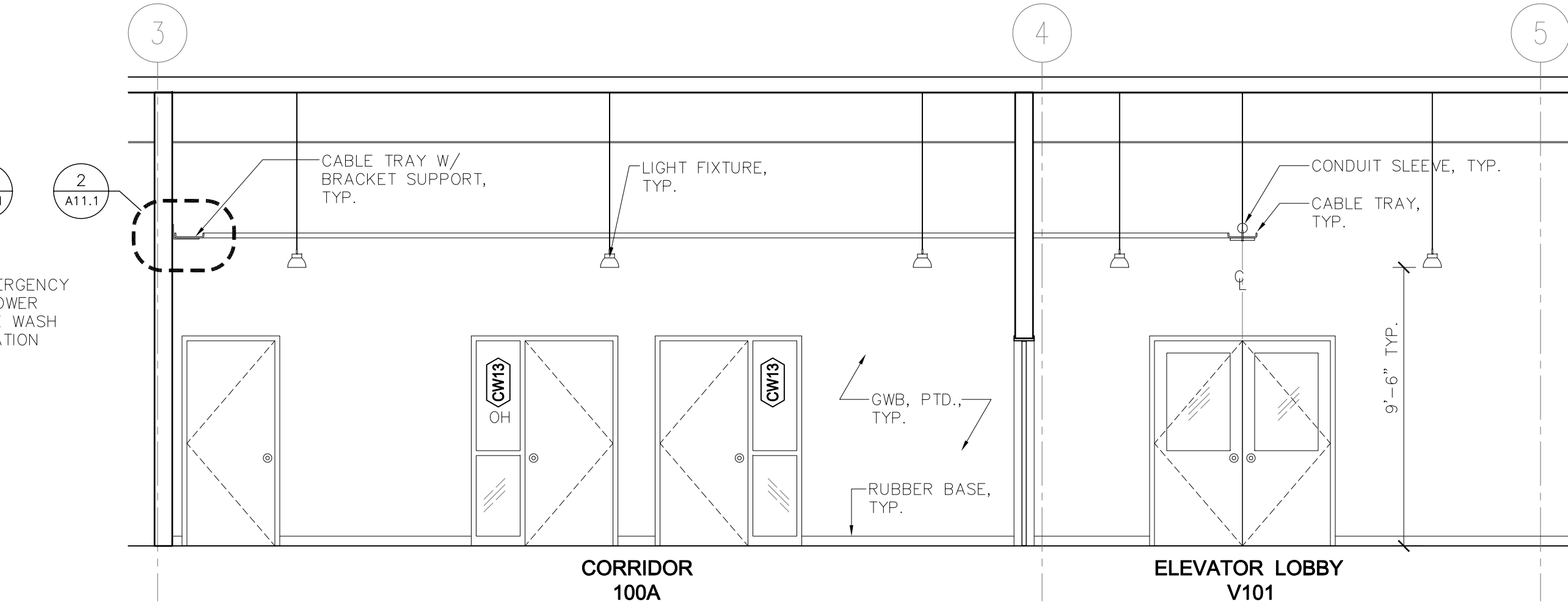
6 CORRIDOR 100B - SOUTH ELEVATION
1/4" = 1'-0"



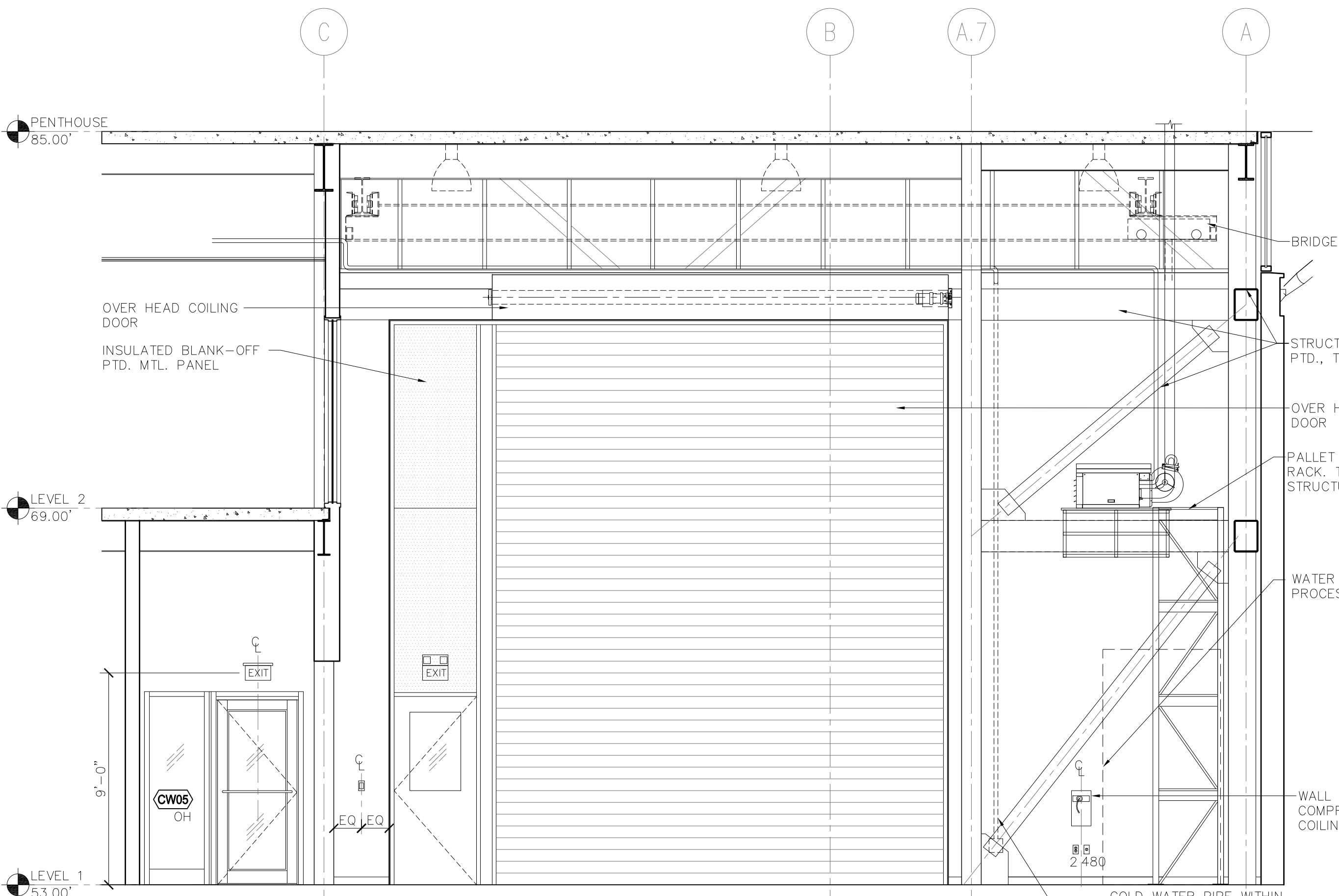
5 CORRIDOR 100B - NORTH ELEVATION
1/4" = 1'-0"



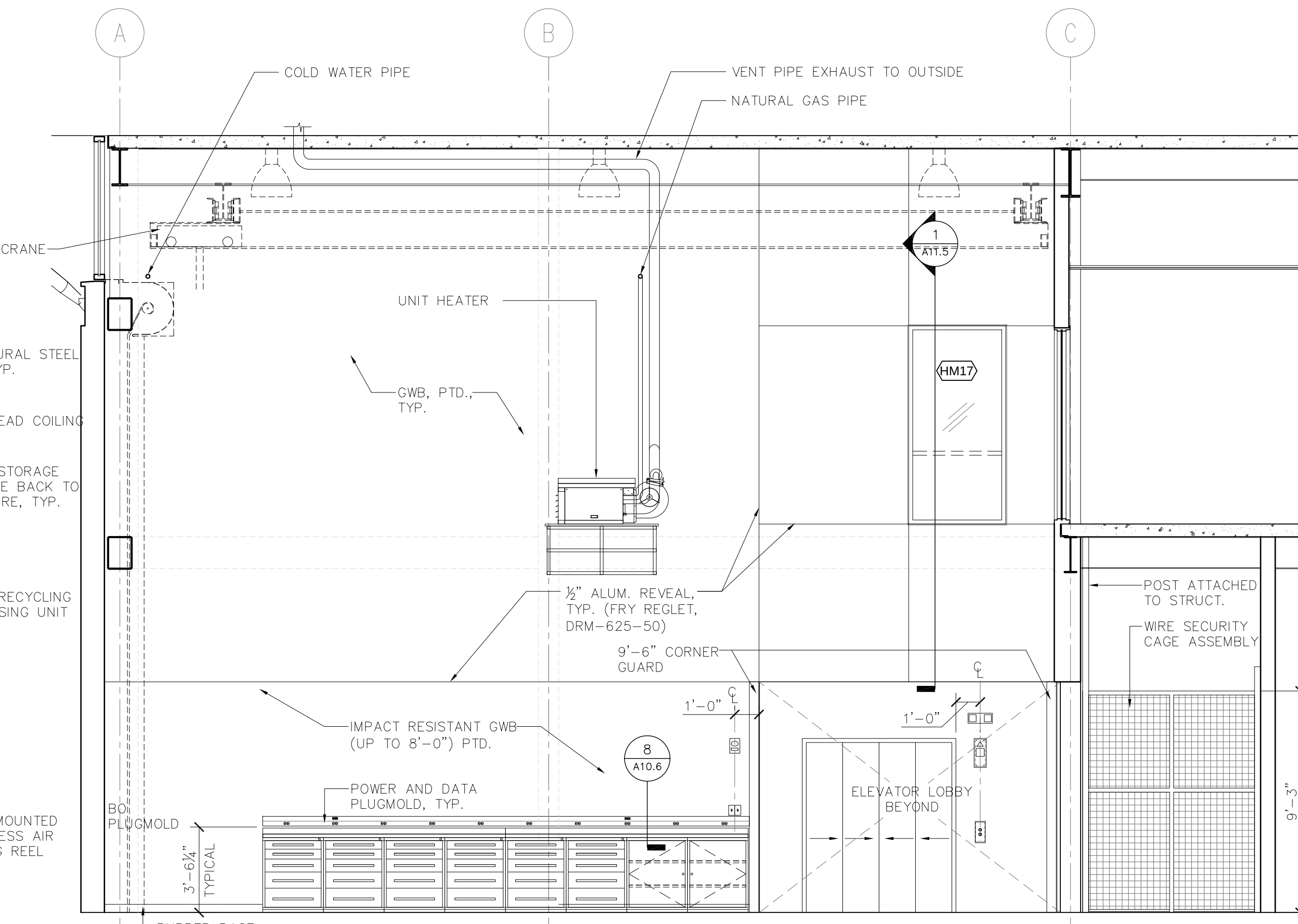
4 CORRIDOR 100A AND 100C - EAST ELEVATION
1/4" = 1'-0"



3 CORRIDOR 100A AND 100C - WEST ELEVATION
1/4" = 1'-0"

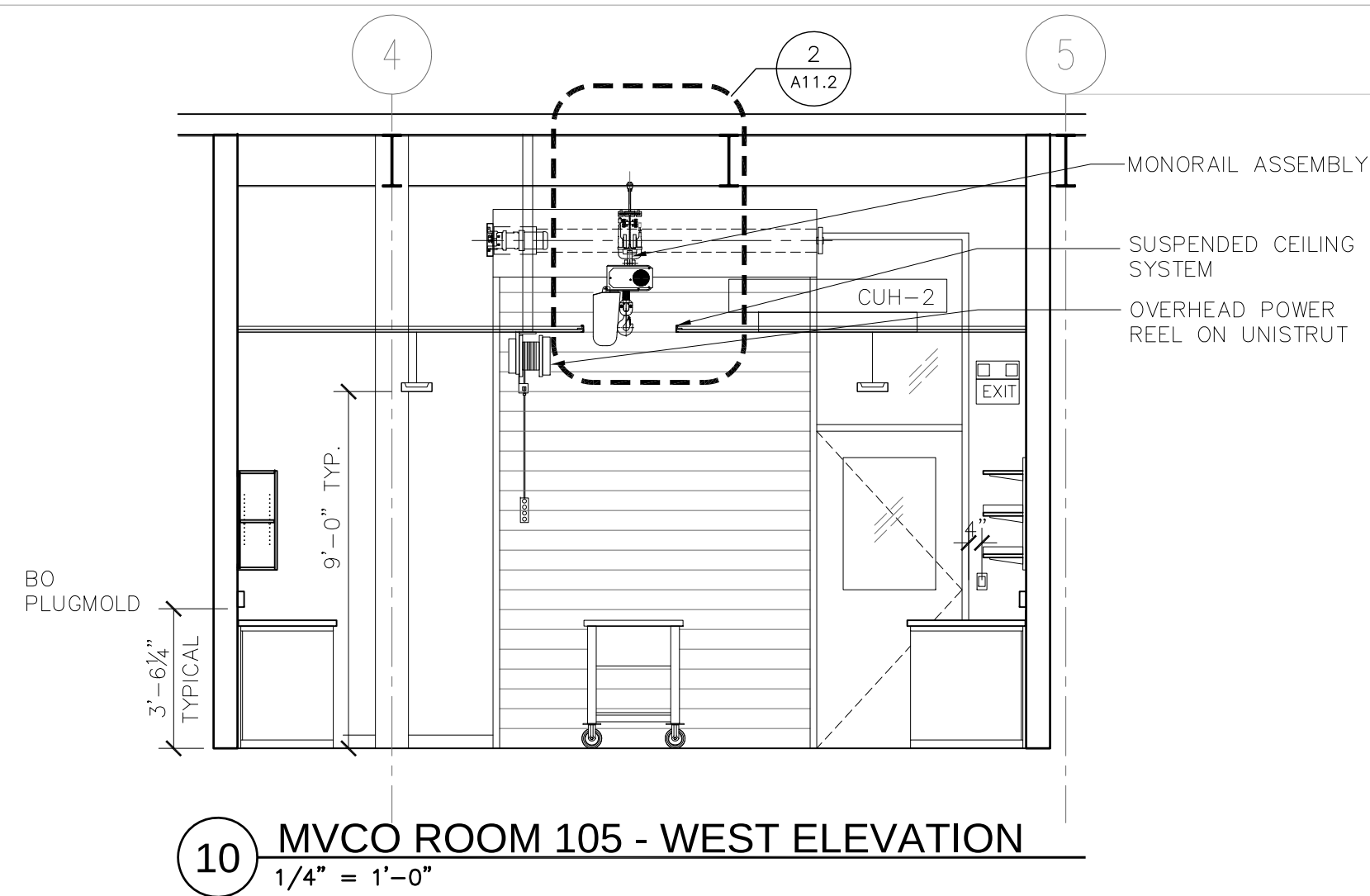


2 BUOY/MOORING PREP AND MAINTENANCE ROOM 101 - NORTH ELEVATION
1/4" = 1'-0"

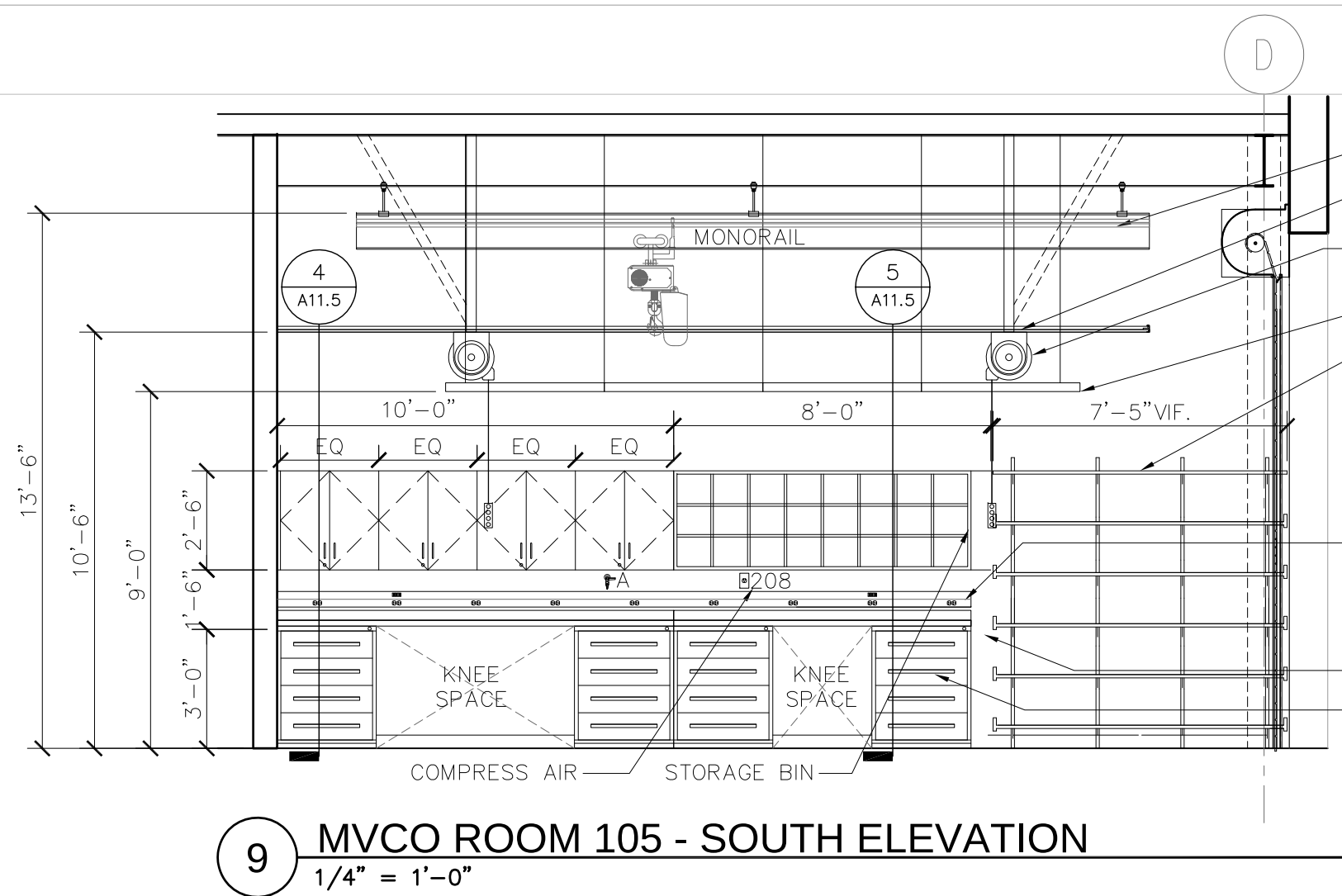


1 BUOY/MOORING PREP AND MAINTENANCE ROOM 101 - SOUTH ELEVATION
1/4" = 1'-0"

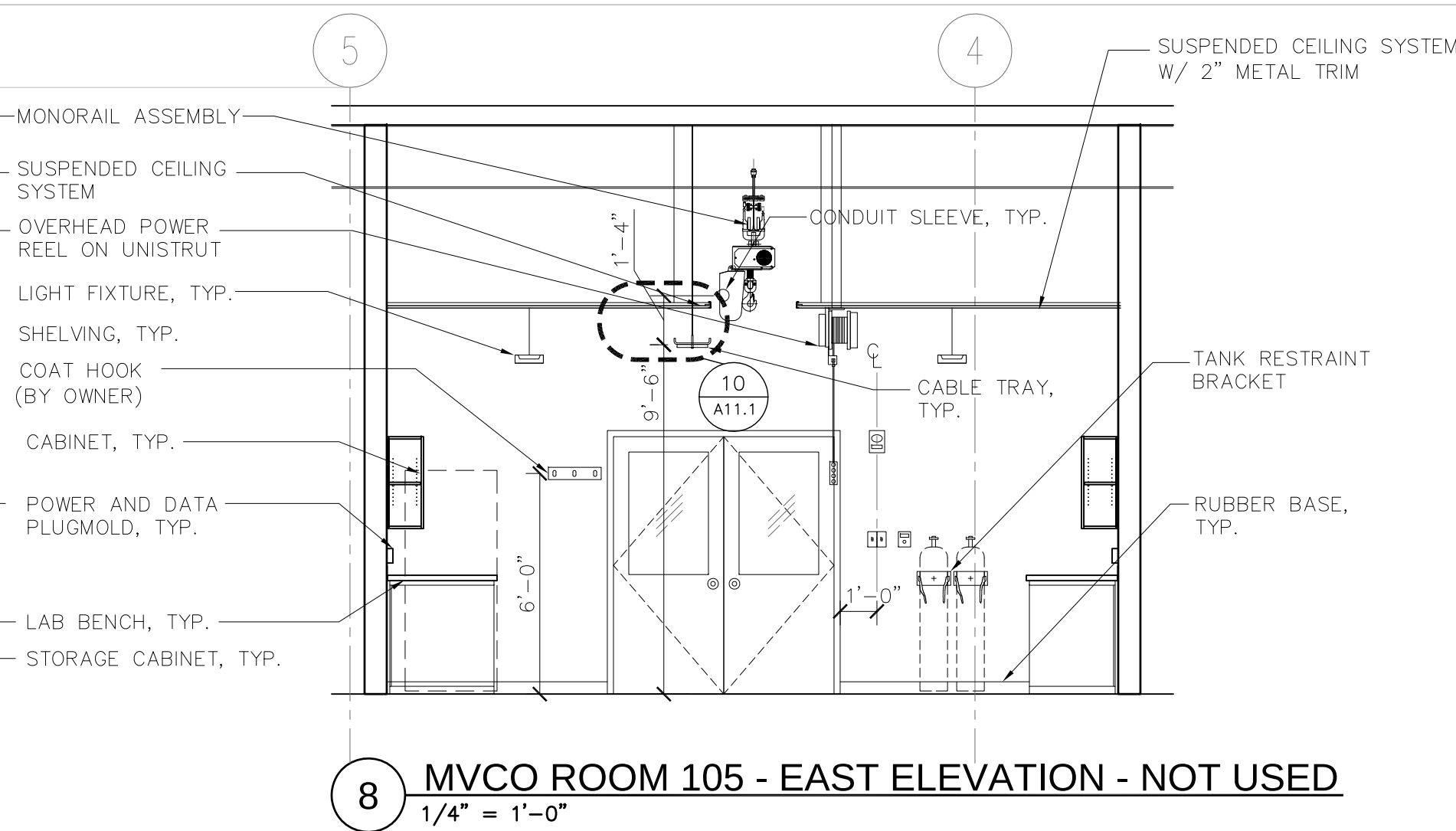
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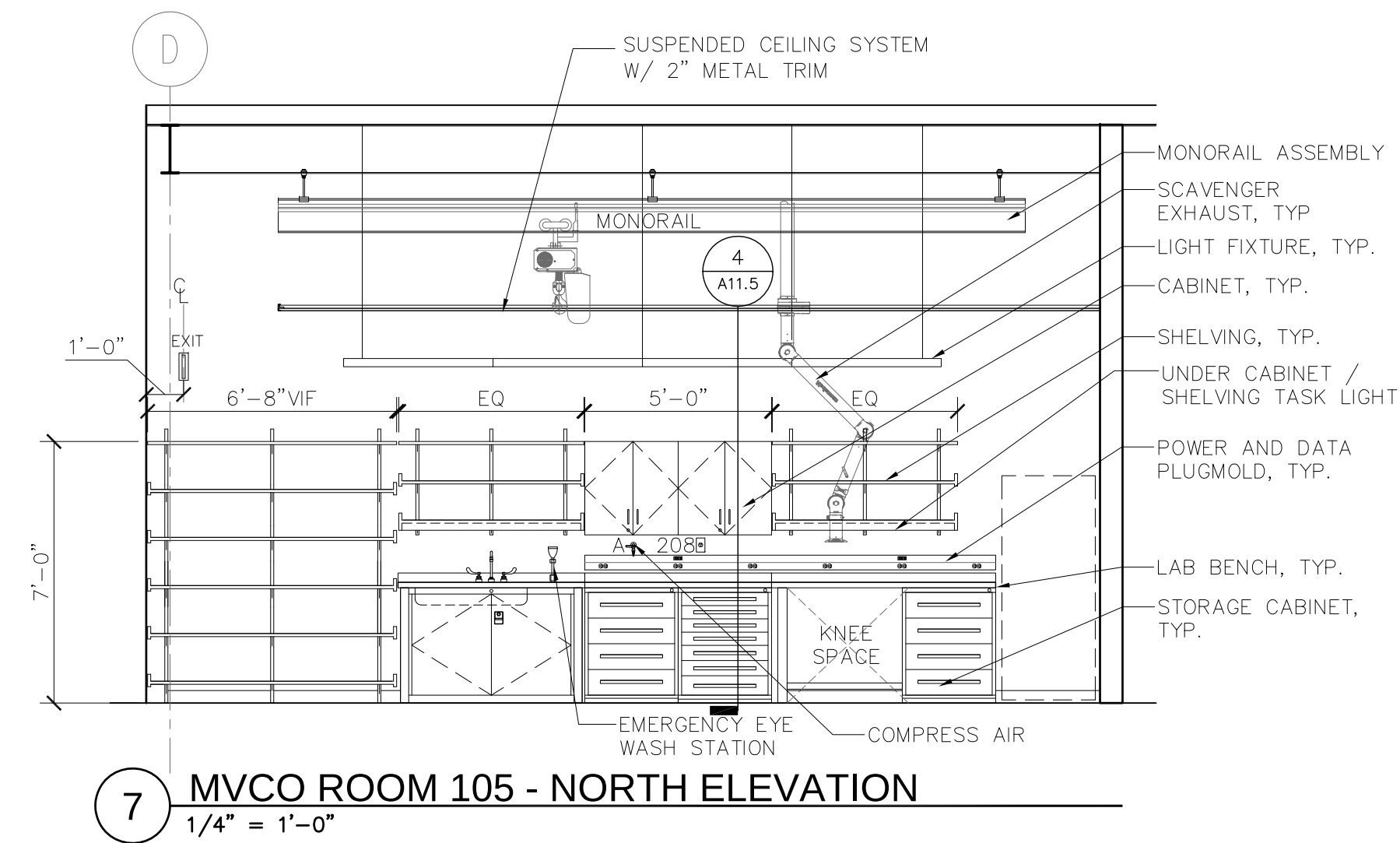
10 MVCO ROOM 105 - WEST ELEVATION
1/4" = 1'-0"



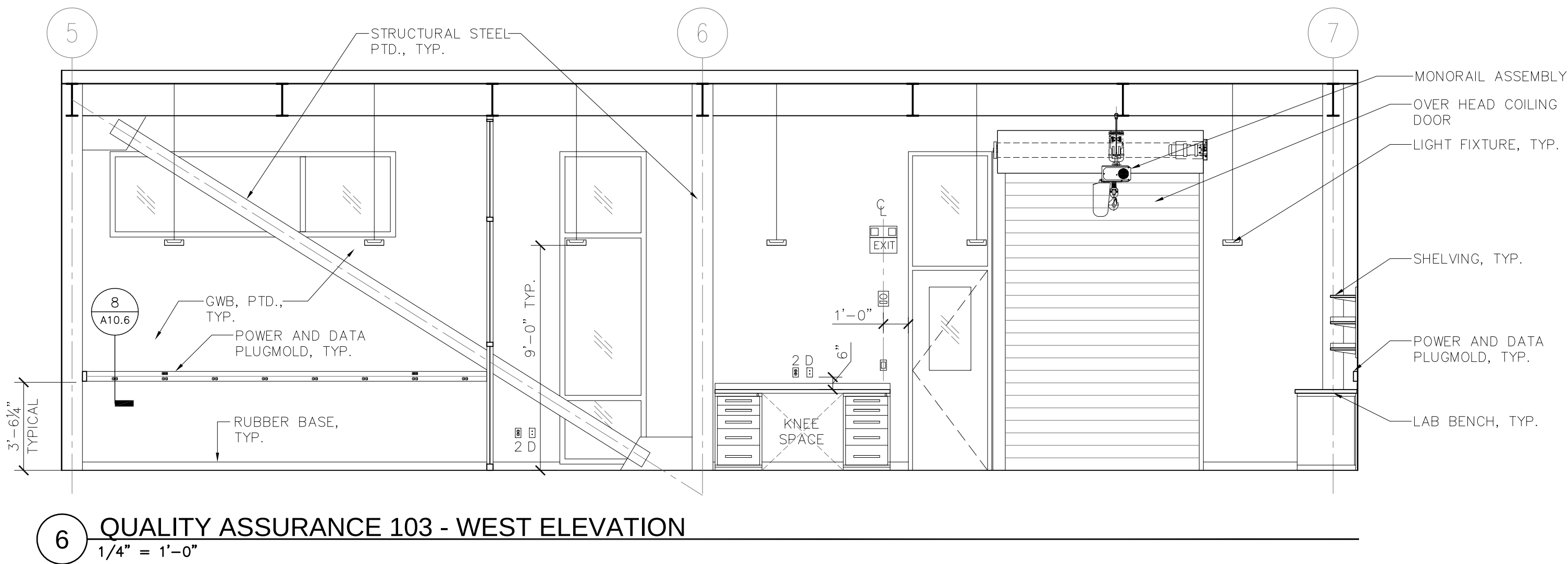
9 MVCO ROOM 105 - SOUTH ELEVATION
1/4" = 1'-0"



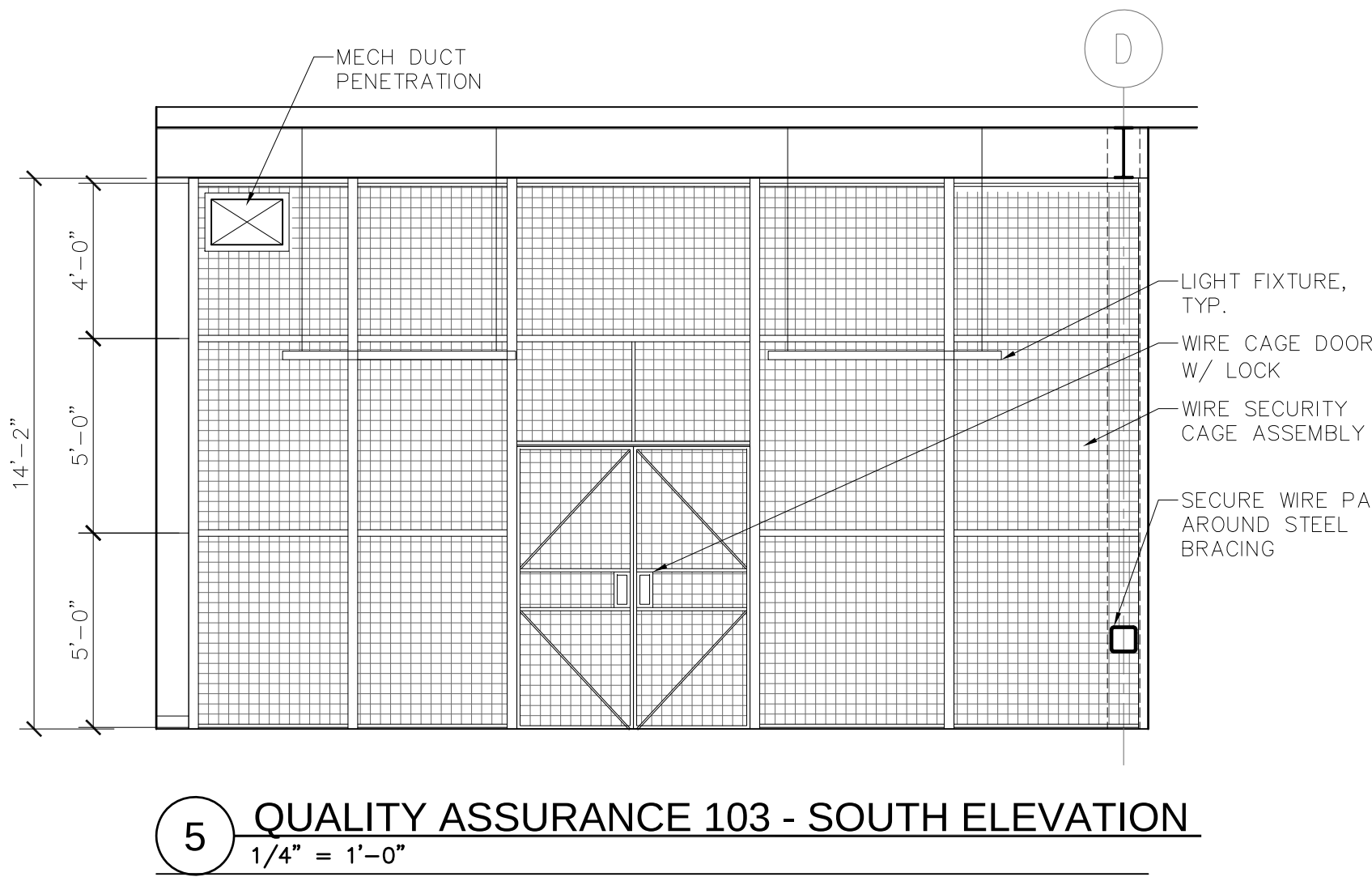
8 MVCO ROOM 105 - EAST ELEVATION - NOT USED
1/4" = 1'-0"



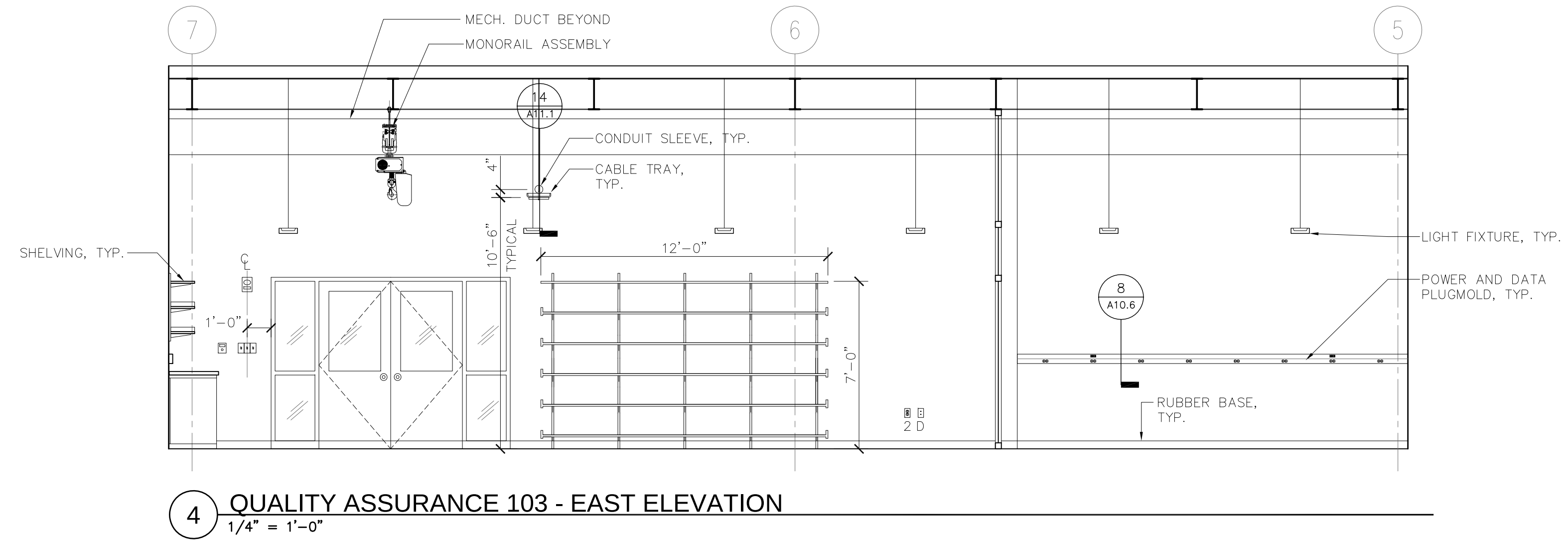
7 MVCO ROOM 105 - NORTH ELEVATION
1/4" = 1'-0"



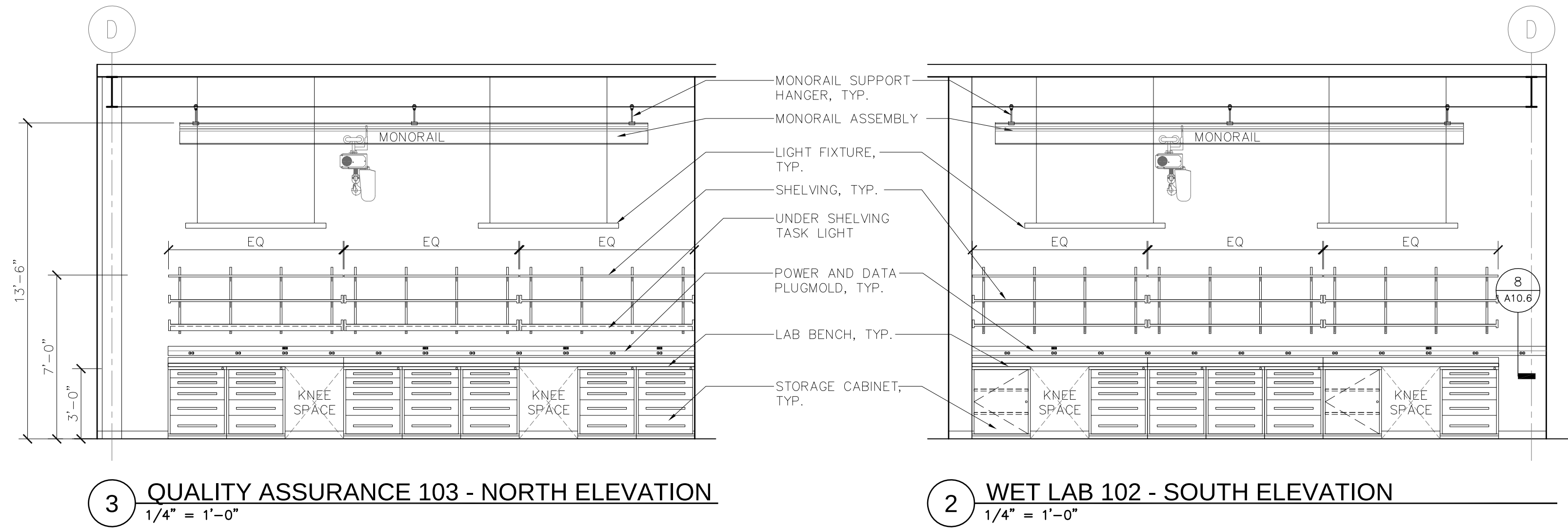
6 QUALITY ASSURANCE 103 - WEST ELEVATION
1/4" = 1'-0"



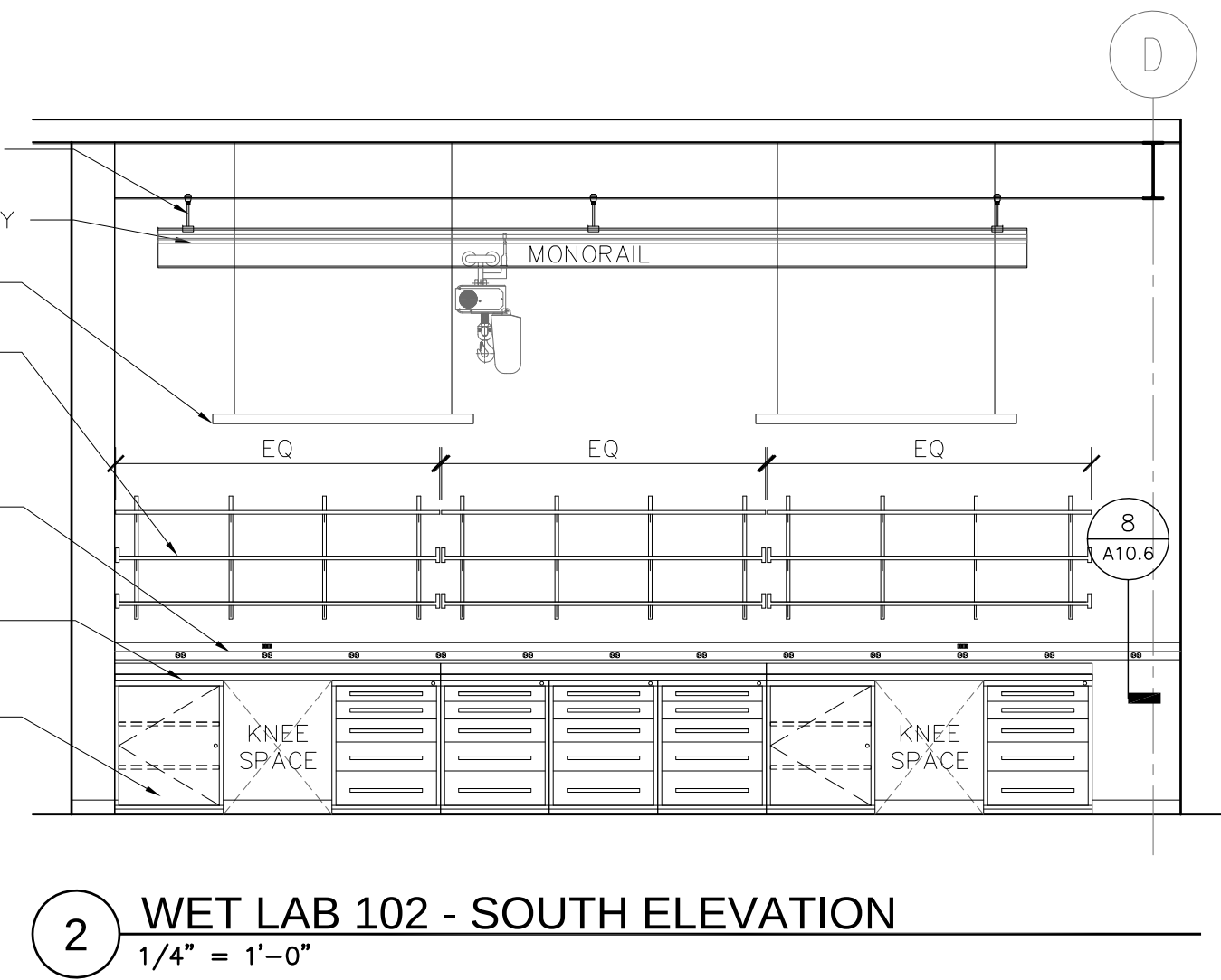
5 QUALITY ASSURANCE 103 - SOUTH ELEVATION
1/4" = 1'-0"



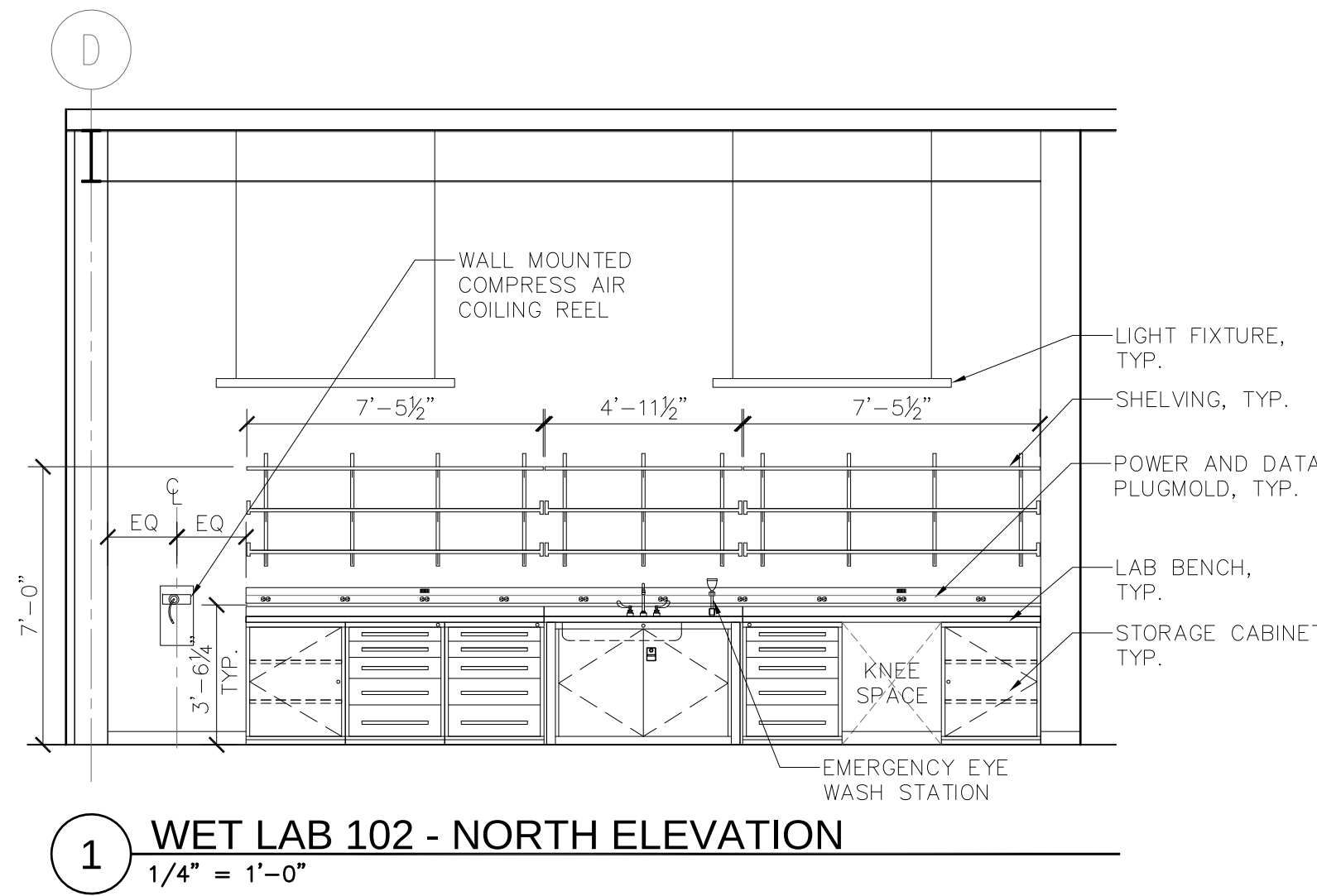
4 QUALITY ASSURANCE 103 - EAST ELEVATION
1/4" = 1'-0"



3 QUALITY ASSURANCE 103 - NORTH ELEVATION
1/4" = 1'-0"



2 WET LAB 102 - SOUTH ELEVATION
1/4" = 1'-0"

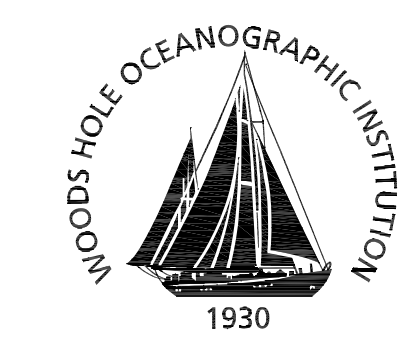


1 WET LAB 102 - NORTH ELEVATION
1/4" = 1'-0"

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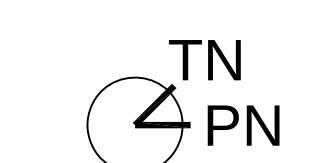
Holmes and McGrath, Inc. Civil Engineer 362 Gifford Street
Falmouth, MA 02540
(508) 548-3564

LeMessurier Consultants Structural Engineer 675 Massachusetts Avenue
Cambridge, MA 02139
(617) 868-1200

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Watertown, MA 02472
(617) 254-0016

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P.O. Box 220
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Notes:



Keyplan

Job Number 31003
Drawing By SR, GC
Checked By NC, ESM
Filename 31003-A8.3
Date 15 APRIL 2011

Revisions

INTERIOR ELEVATIONS

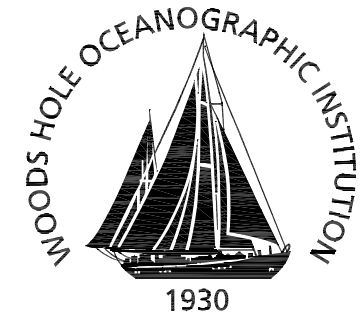
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A8.3

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Notes:



Keyplan

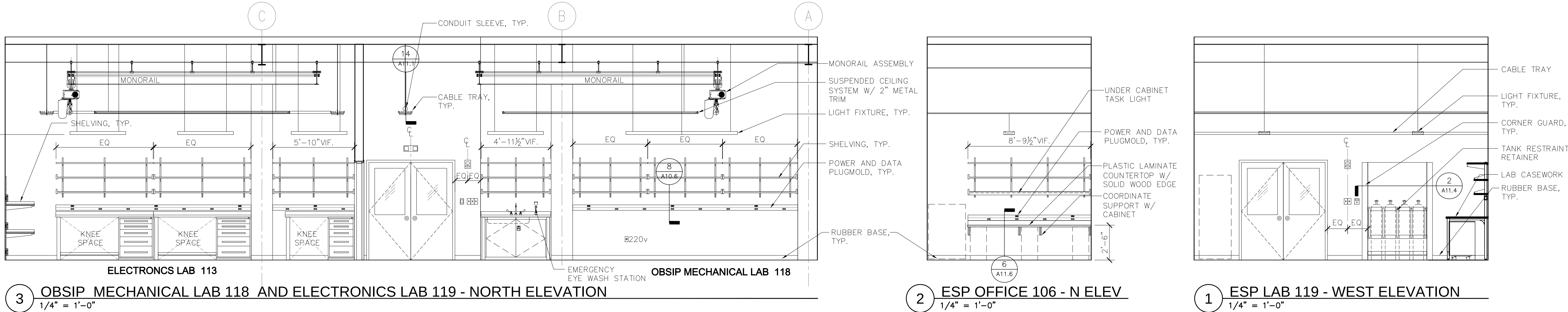
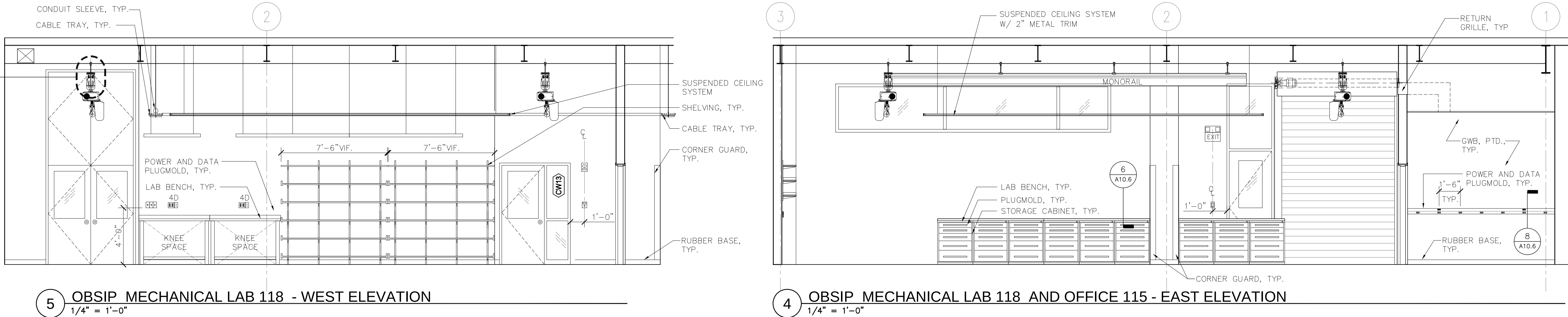
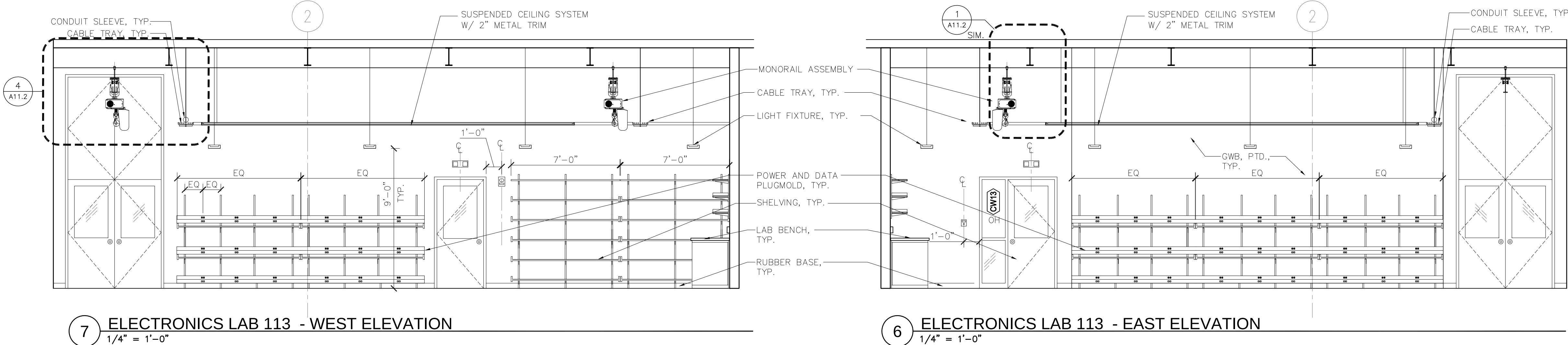
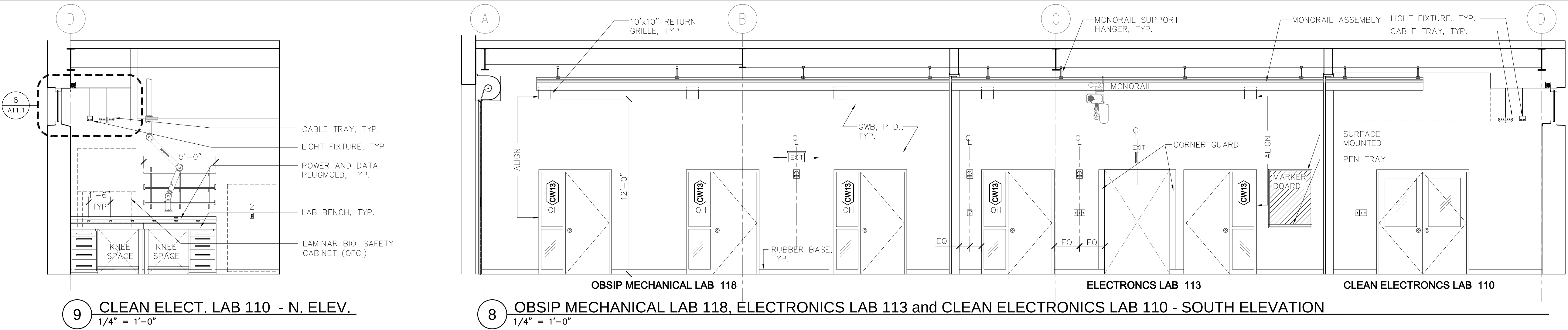
Job Number 31003
Drawing By SR, GC
Checked By NC, ESM
Filename 31003-A8.4
Date 15 APRIL 2011

Revisions

INTERIOR ELEVATIONS

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Scale: 1/4" = 1'-0"
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A8.4



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TN
PN

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0 2' 4' 8'

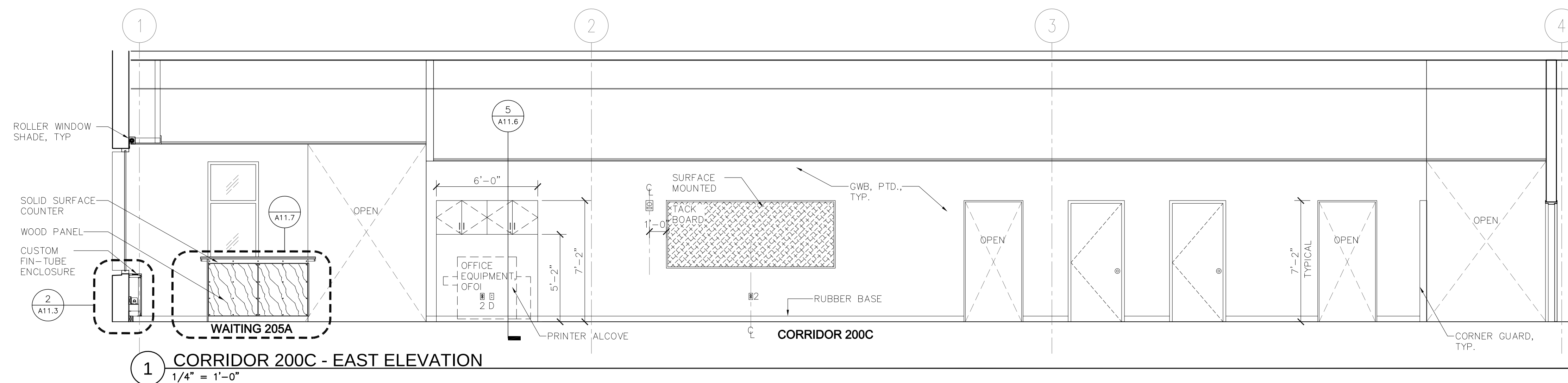
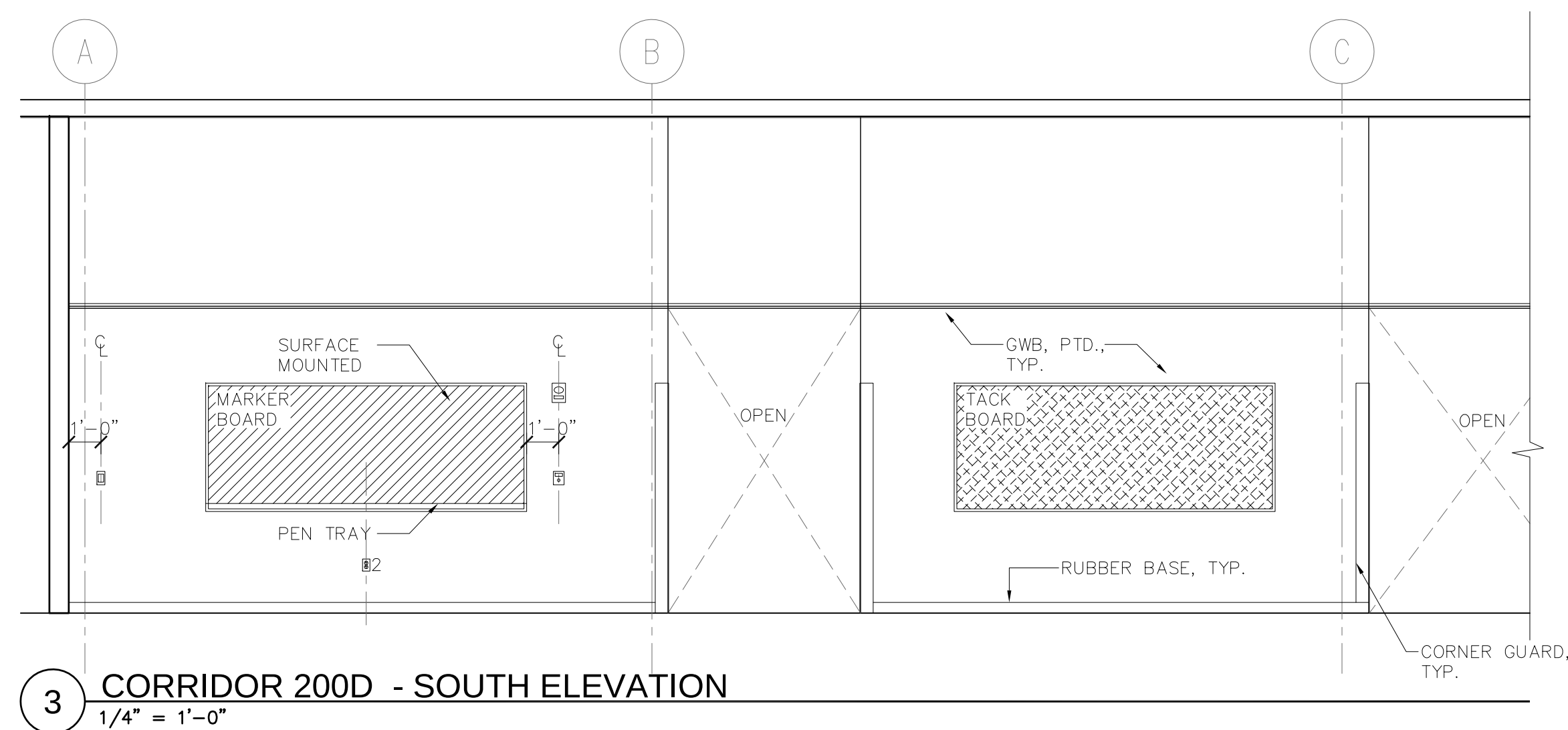
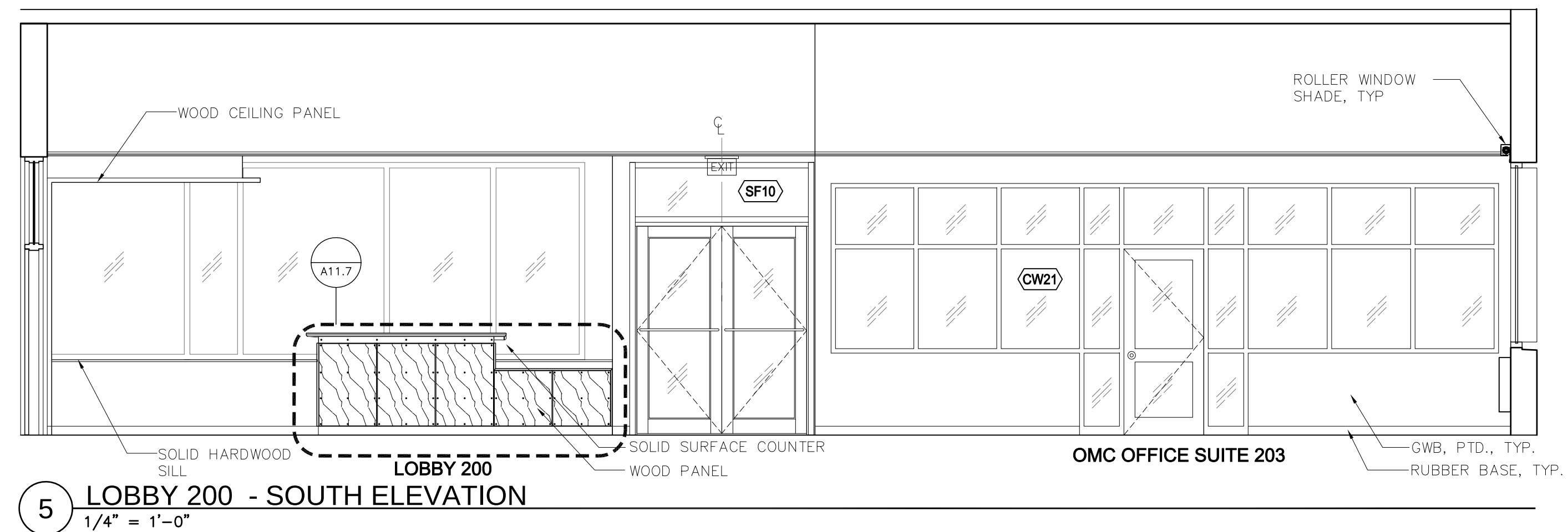
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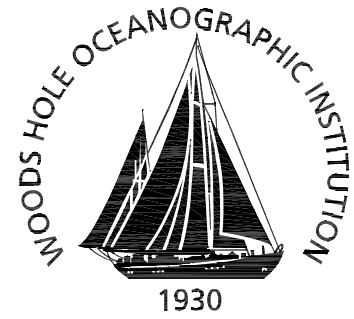
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SCALE: 1/4" = 1'-0"

A8.6

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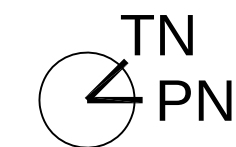
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Notes:



Keyplan

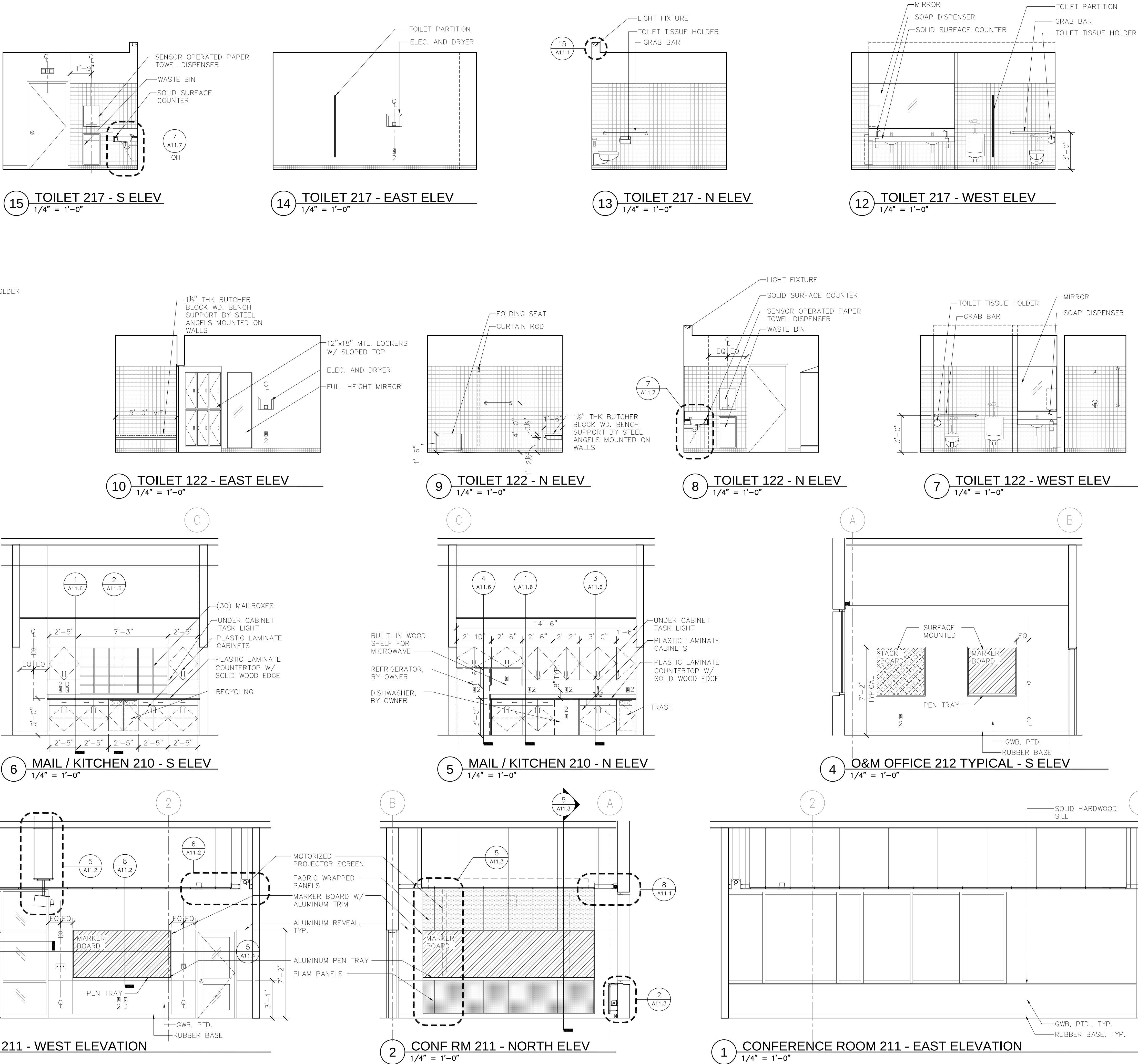
Job Number 31003
Drawing By GC
Checked By NC, ESM
Filename 31003-A8.7
Date 15 APRIL 2011

Revisions

INTERIOR ELEVATIONS

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Scale: 1/4" = 1'-0"
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A8.7

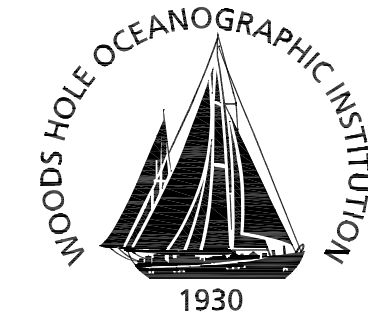


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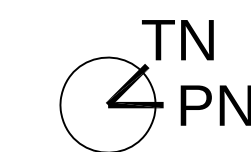
Laboratory of Ocean Sensors and Observing Systems (LOSOS)

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Columbia Construction Co. Construction Manager	100 Riverpark Drive P.O. Box 220 North Reading, MA 01864 (978) 664-9500

Notes:



Keyplan

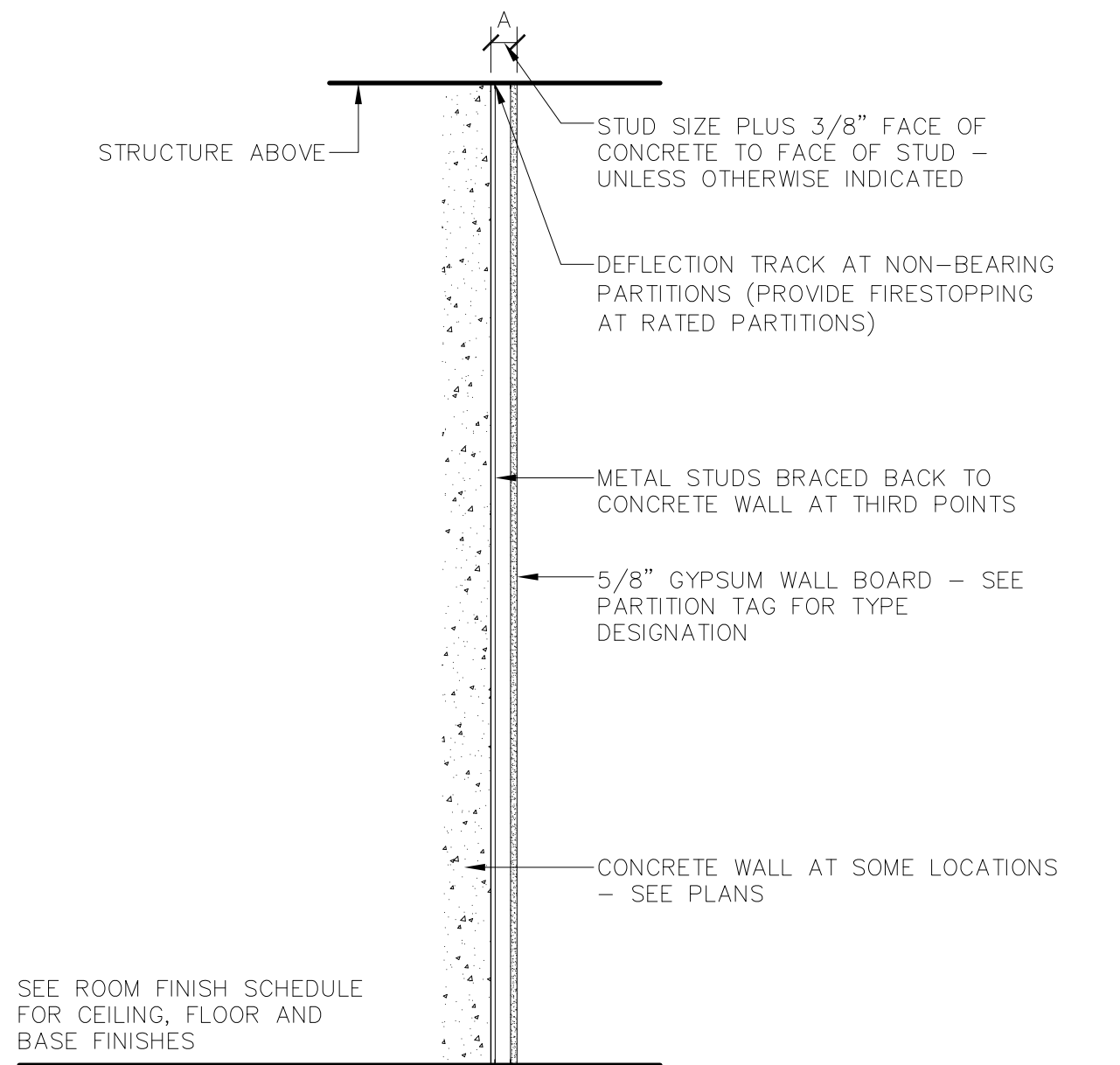
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Drawing By	-
Checked By	-
Filename	31003-A9.1
Date	15 APRIL 2011

Revisions

PARTITION TYPES

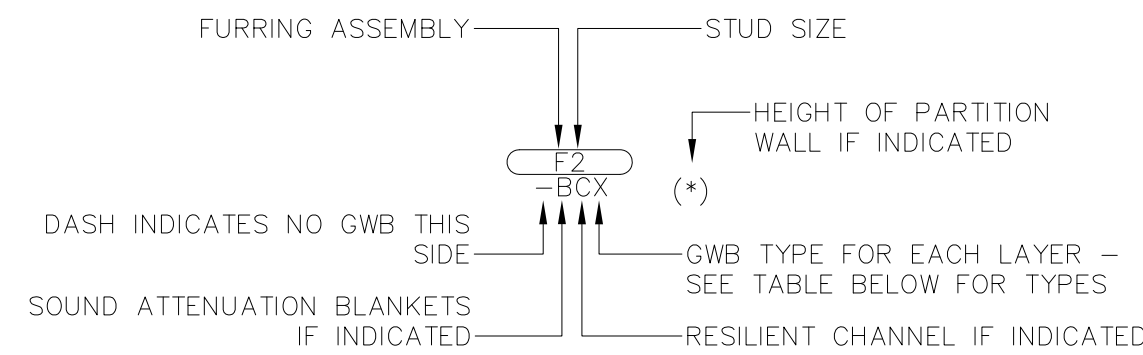
CONSTRUCTION DOCUMENTS
Scale: NTS

A9.1



PARTITION TYPE F

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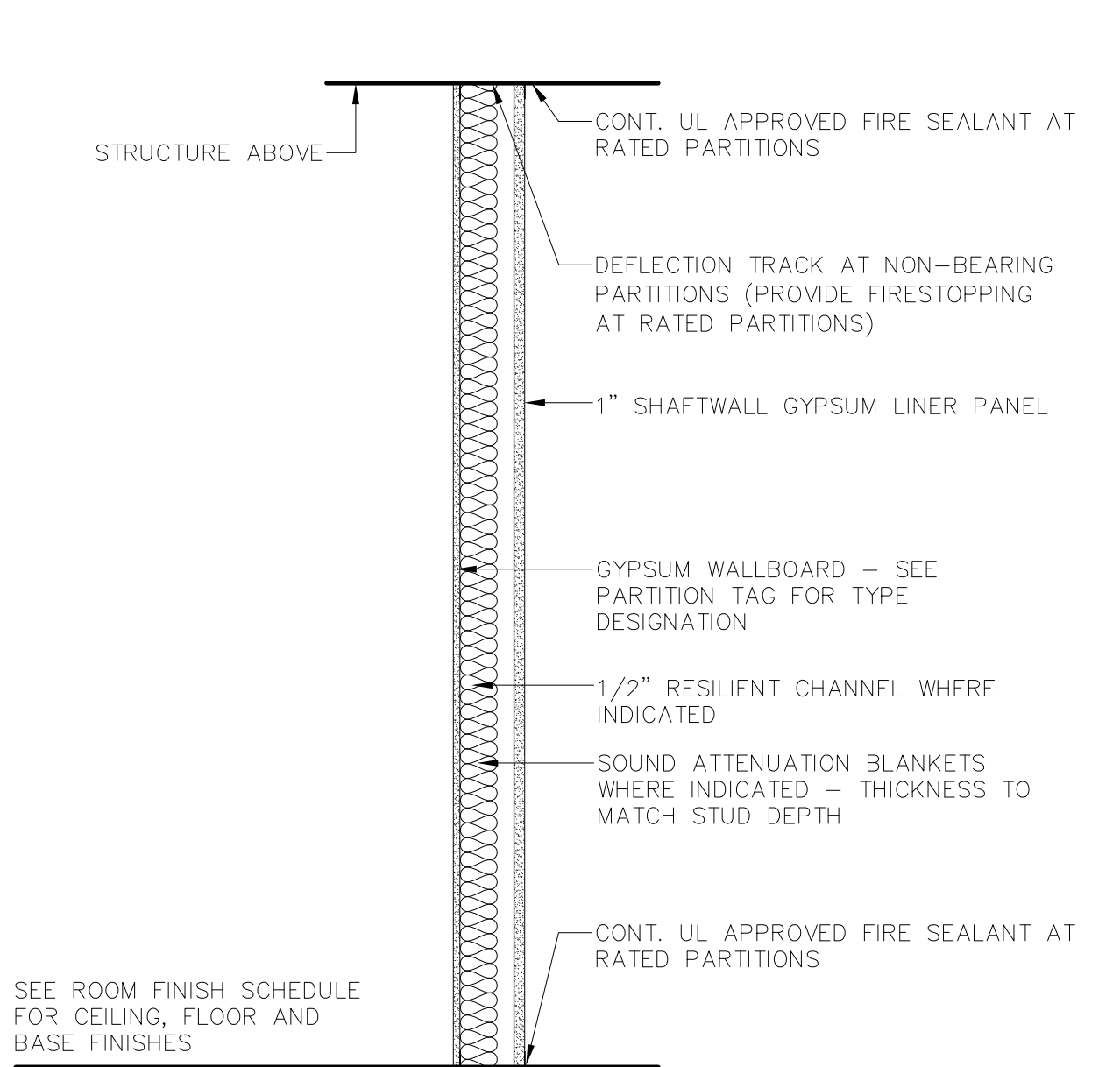


PARTITION MODIFIERS

GWB TYPE DESIGNATIONS	
- = NO GWB; CHASE WALL	L = TYPE "X" LINER BOARD
A = TYPE "X" ABUSE RESISTANT	M = MOISTURE AND MOLD RESISTANT
C = TILE BACKER CEMENTITIOUS	R = REGULAR
F = FOIL BACK	T = TILE BACKER ABUSE RESISTANT
G = MOISTURE RESISTANT TYPE "X"	X = TYPE "X"
STUD SIZES	
1 = 1 5/8"	2 = 2 1/2"
3 = 3 5/8"	4 = 4"
6 = 6"	8 = 8"
OPTIONAL DESIGNATIONS	
B = SOUND ATTENUATION BLANKET	C = 1/2" RESILIENT CHANNEL (RC-1)

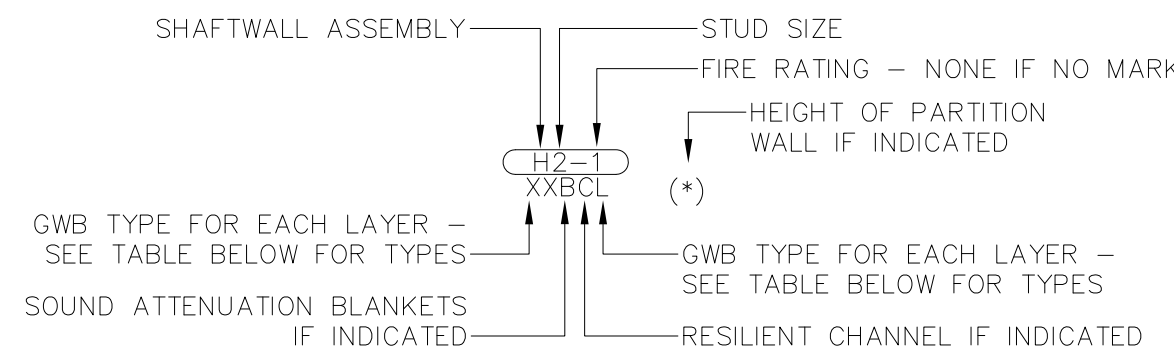
NOTES:

- IF THE INSTALLATION OF GYPSUM BOARD BEGINS PRIOR TO COMPLETION OF "CLOSING-IN" THE BUILDING, GYPSUM PANELS SHALL BE MOISTURE AND MOLD RESISTANT.



PARTITION TYPE H

3/4" = 1'-0"

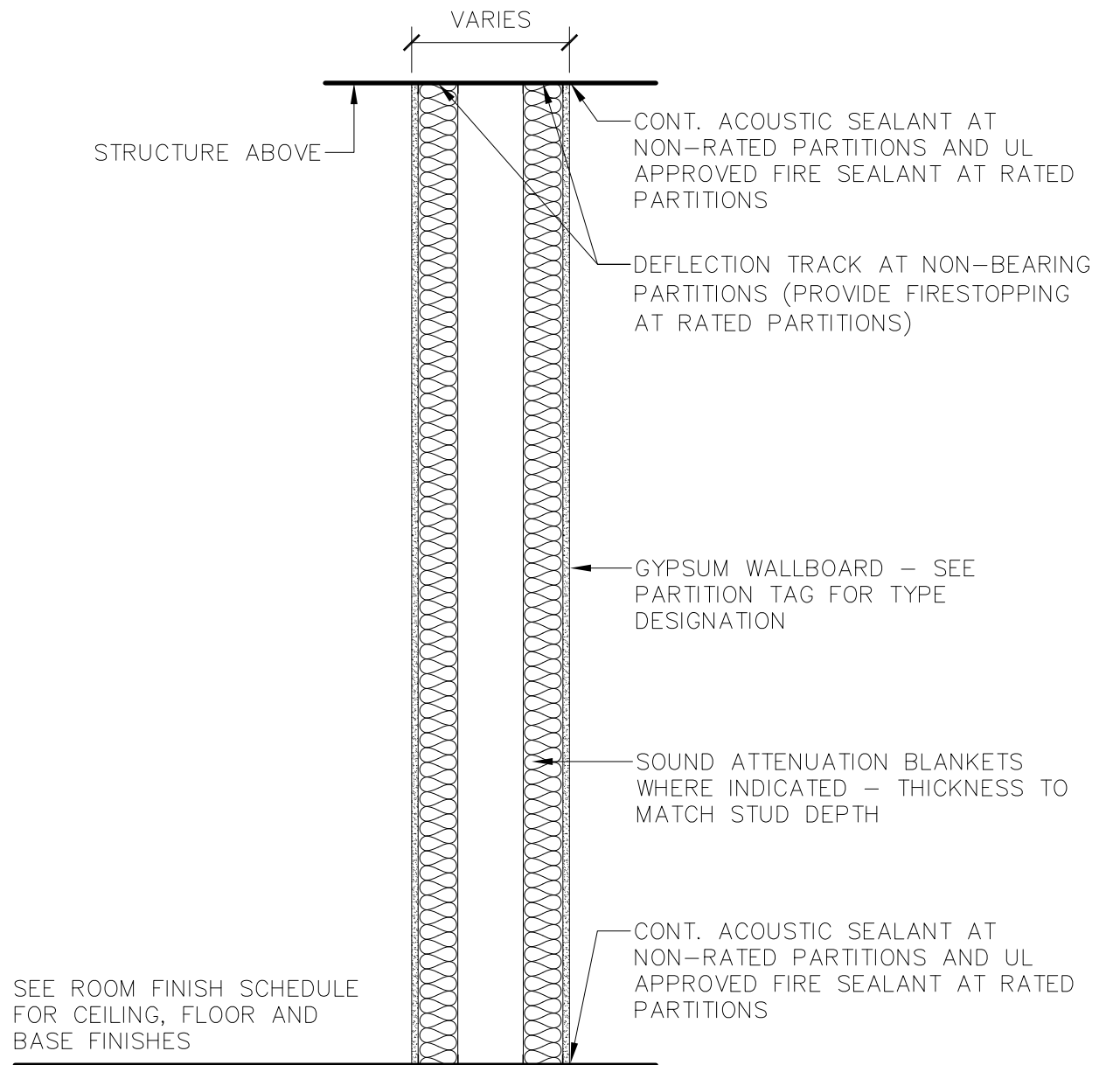


PARTITION MODIFIERS

GWB TYPE DESIGNATIONS	
- = NO GWB; CHASE WALL	L = TYPE "X" LINER BOARD
A = TYPE "X" ABUSE RESISTANT	M = MOISTURE AND MOLD RESISTANT
C = TILE BACKER CEMENTITIOUS	R = REGULAR
F = FOIL BACK	T = TILE BACKER ABUSE RESISTANT
G = MOISTURE RESISTANT TYPE "X"	X = TYPE "X"
STUD SIZES	
1 = 1 5/8"	2 = 2 1/2"
3 = 3 5/8"	4 = 4"
6 = 6"	8 = 8"
OPTIONAL DESIGNATIONS	
B = SOUND ATTENUATION BLANKET	C = 1/2" RESILIENT CHANNEL (RC-1)

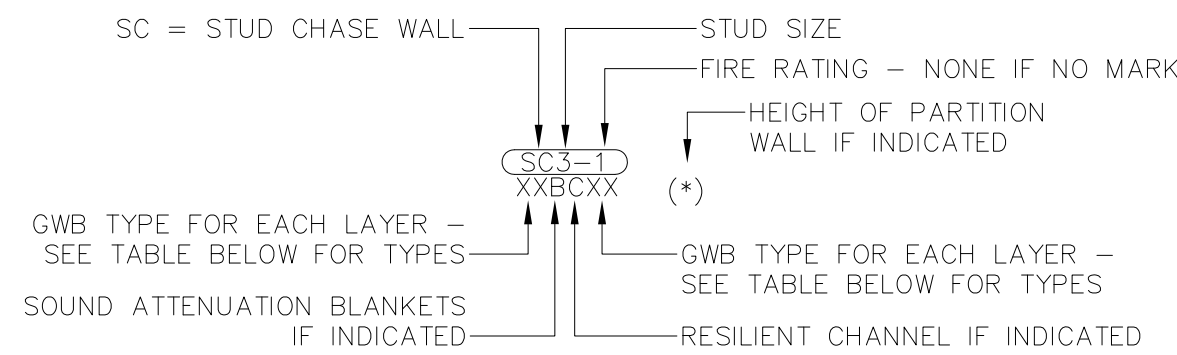
NOTES:

- WHERE SOUND BATTS ARE INDICATED FOR NON-RATED PARTITIONS, PROVIDE ACOUSTICAL SEAL AT TOP OF PARTITION TO ROOF/ FLOOR DECK ABOVE (COMPLETELY FILL FLUTES AT METAL DECKING).
- IF THE INSTALLATION OF GYPSUM BOARD BEGINS PRIOR TO COMPLETION OF "CLOSING-IN" THE BUILDING, GYPSUM PANELS SHALL BE MOISTURE AND MOLD RESISTANT.



PARTITION TYPE SC

3/4" = 1'-0"

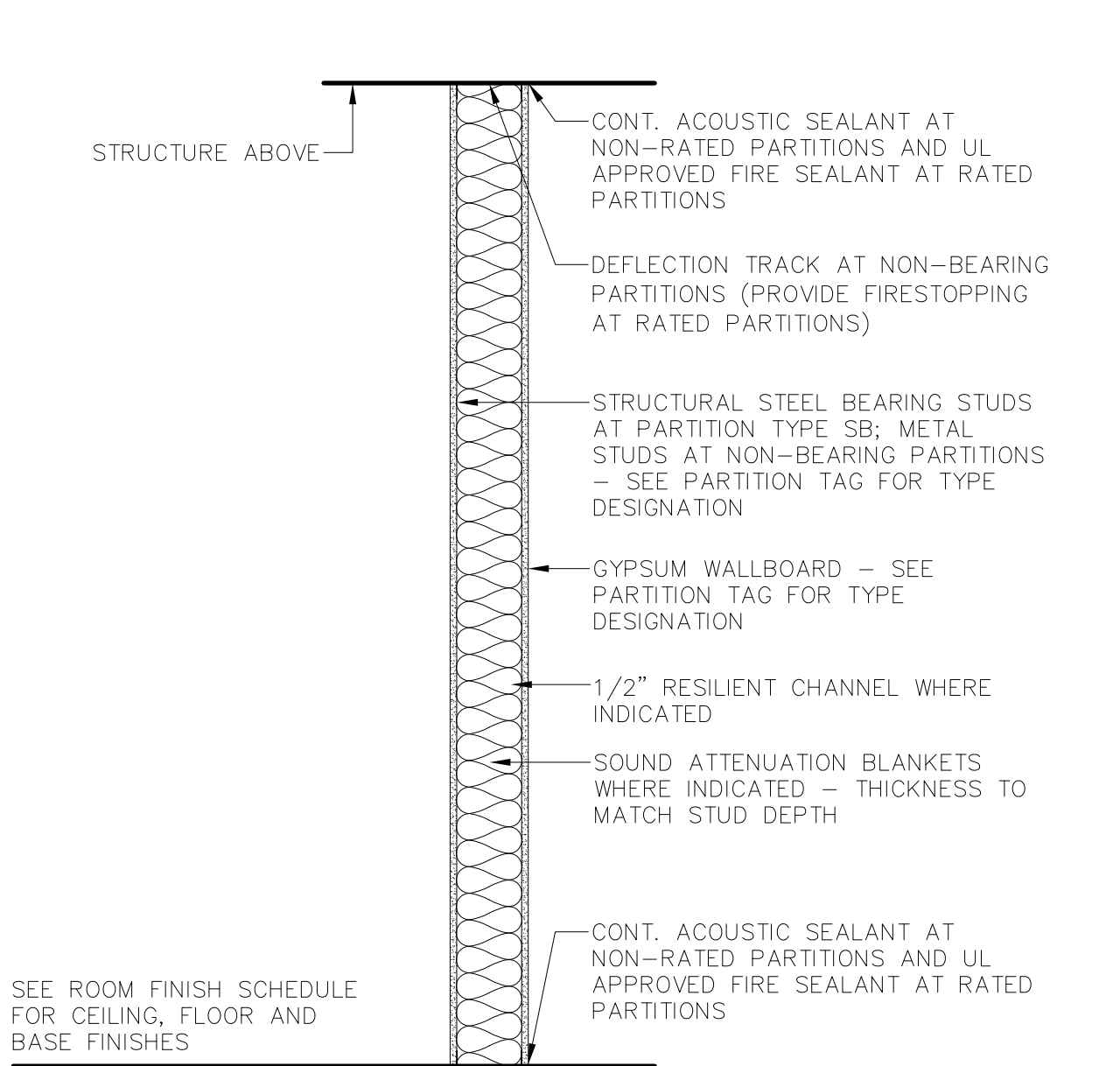


PARTITION MODIFIERS

GWB TYPE DESIGNATIONS	
- = NO GWB; CHASE WALL	L = TYPE "X" LINER BOARD
A = TYPE "X" ABUSE RESISTANT	M = MOISTURE AND MOLD RESISTANT
C = TILE BACKER CEMENTITIOUS	R = REGULAR
F = FOIL BACK	T = TILE BACKER ABUSE RESISTANT
G = MOISTURE RESISTANT TYPE "X"	X = TYPE "X"
STUD SIZES	
1 = 1 5/8"	2 = 2 1/2"
3 = 3 5/8"	4 = 4"
6 = 6"	8 = 8"
OPTIONAL DESIGNATIONS	
B = SOUND ATTENUATION BLANKET	

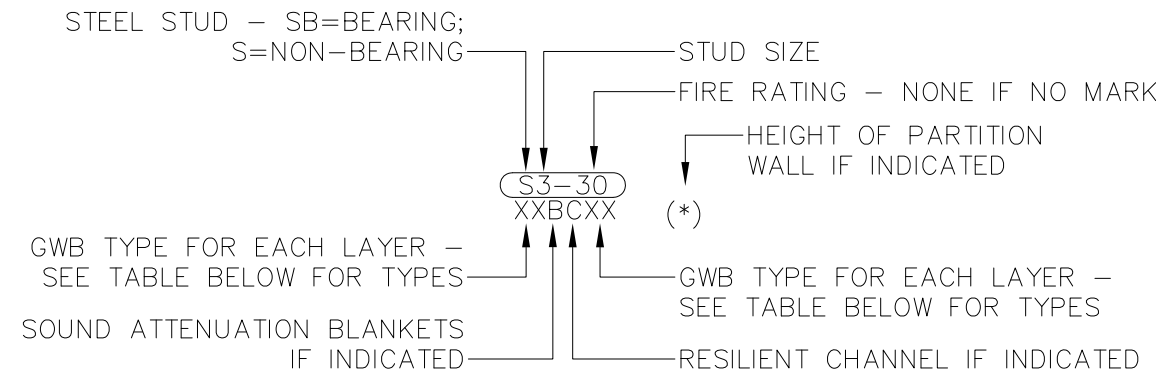
NOTES:

- WHERE SOUND BATTS ARE INDICATED FOR NON-RATED PARTITIONS, PROVIDE ACOUSTICAL SEAL AT TOP OF PARTITION TO ROOF/ FLOOR DECK ABOVE (COMPLETELY FILL FLUTES AT METAL DECKING).
- IF THE INSTALLATION OF GYPSUM BOARD BEGINS PRIOR TO COMPLETION OF "CLOSING-IN" THE BUILDING, GYPSUM PANELS SHALL BE MOISTURE AND MOLD RESISTANT.



PARTITION TYPE S & SB

3/4" = 1'-0"



PARTITION MODIFIERS

GWB TYPE DESIGNATIONS	
- = NO GWB; CHASE WALL	L = TYPE "X" LINER BOARD
A = TYPE "X" ABUSE RESISTANT	M = MOISTURE AND MOLD RESISTANT
C = TILE BACKER CEMENTITIOUS	R = REGULAR
F = FOIL BACK	T = TILE BACKER ABUSE RESISTANT
G = MOISTURE RESISTANT TYPE "X"	X = TYPE "X"
STUD SIZES	
1 = 1 5/8"	2 = 2 1/2"
3 = 3 5/8"	4 = 4"
6 = 6"	8 = 8"
OPTIONAL DESIGNATIONS	
B = SOUND ATTENUATION BLANKET	C = 1/2" RESILIENT CHANNEL (RC-1)
	P = PARTIAL HEIGHT GWB; 6" ABOVE CEILING ONE SIDE OF PARTITION

NOTES:

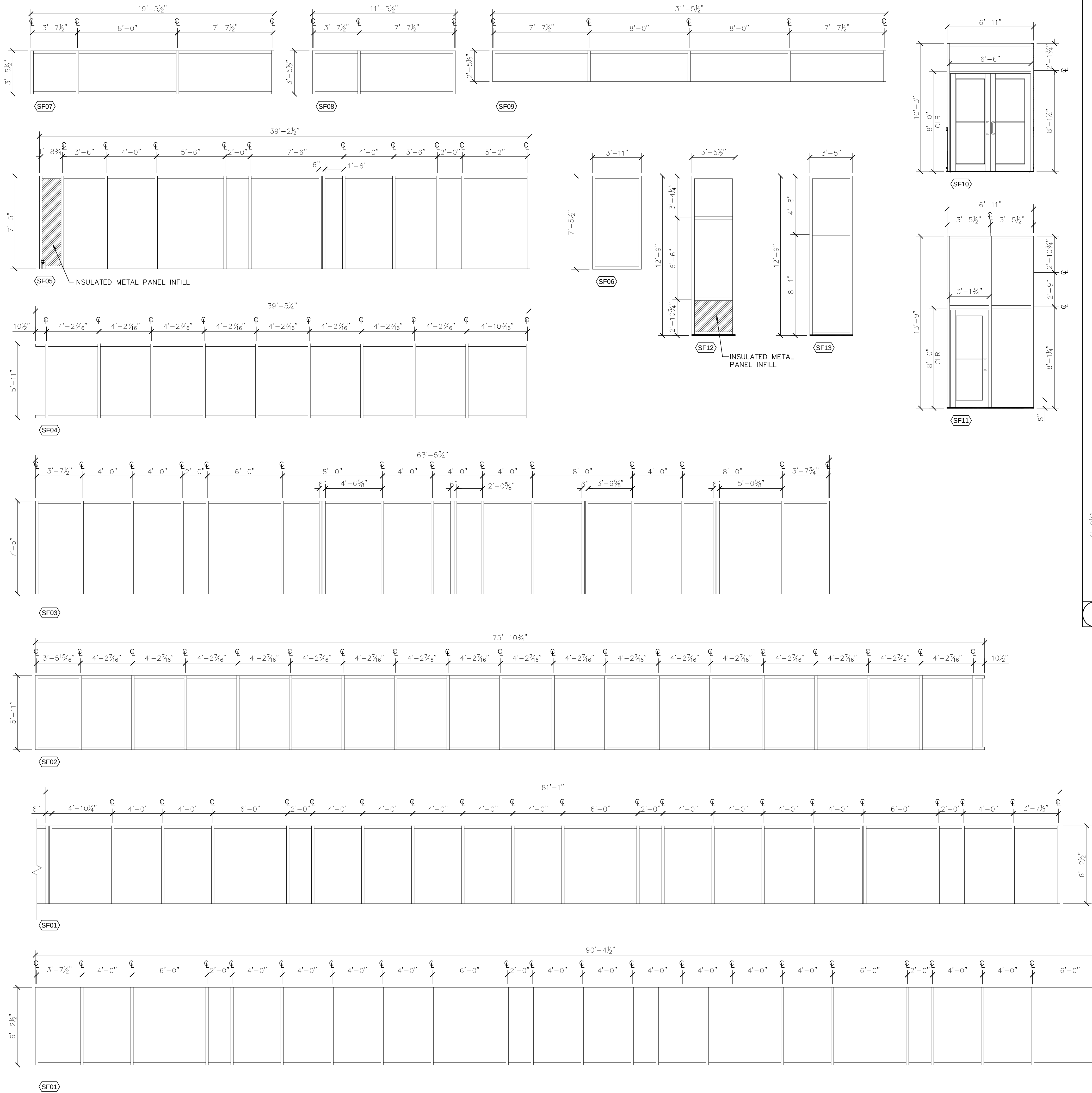
- WHERE NOTED ON THE PLAN - RC INDICATES THE SIDE OF THE PARTITION FOR THE RESILIENT CHANNEL.
- WHERE SOUND BATTS ARE INDICATED FOR NON-RATED PARTITIONS, PROVIDE ACOUSTICAL SEAL AT TOP OF PARTITION TO ROOF/ FLOOR DECK ABOVE (COMPLETELY FILL FLUTES AT METAL DECKING).
- WHERE SHEET METAL BLOCKING IS INDICATED, PROVIDE CONTINUOUS 16 GA SHEET METAL BLOCKING FROM 2'-0" TO 8'-0" ABOVE FLOOR, UNLESS INDICATED OTHERWISE.
- IF THE INSTALLATION OF GYPSUM BOARD BEGINS PRIOR TO COMPLETION OF "CLOSING-IN" THE BUILDING, GYPSUM PANELS SHALL BE MOISTURE AND MOLD RESISTANT.
- WHERE TYPE "T" TILE BACKER ABUSE RESISTANT GYPSUM BOARD IS DESIGNATED FOR USE IN A RATED ASSEMBLY, PROVIDE "FIBEROCK AQUA TOUGH TILE BACKERBOARD" BY USG OR EQUAL WITH UL CLASSIFIED FRX-G FOR 5/8" THICKNESS.

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1

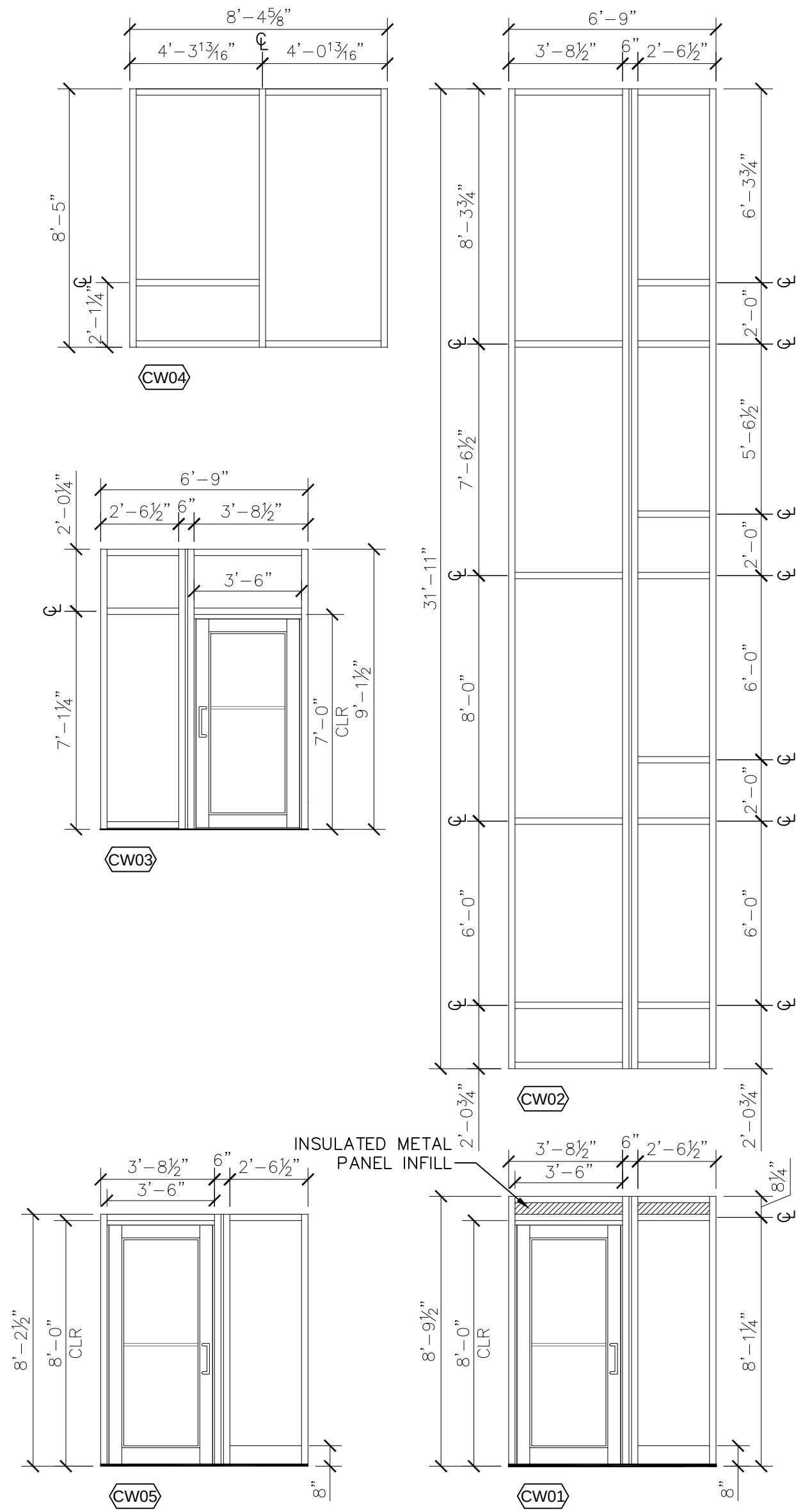
STOREFRONT FRAMING SCHEDULE AND DIMENSIONS

1/4" = 1'-0"



CURTAINWALL SCHEDULE AND DIMENSIONS

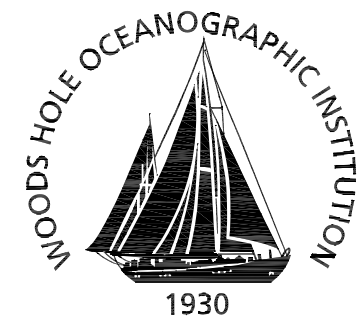
1/4" = 1'-0"



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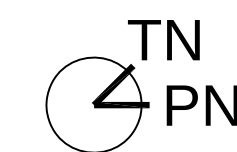
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Notes:



Keyplan

Job Number	31003
Drawing By	ESM
Checked By	NC
Filename	
Date	15 APRIL 2011

Revisions

ALUMINUM CURTAINWALL AND STOREFRONT ASSEMBLIES

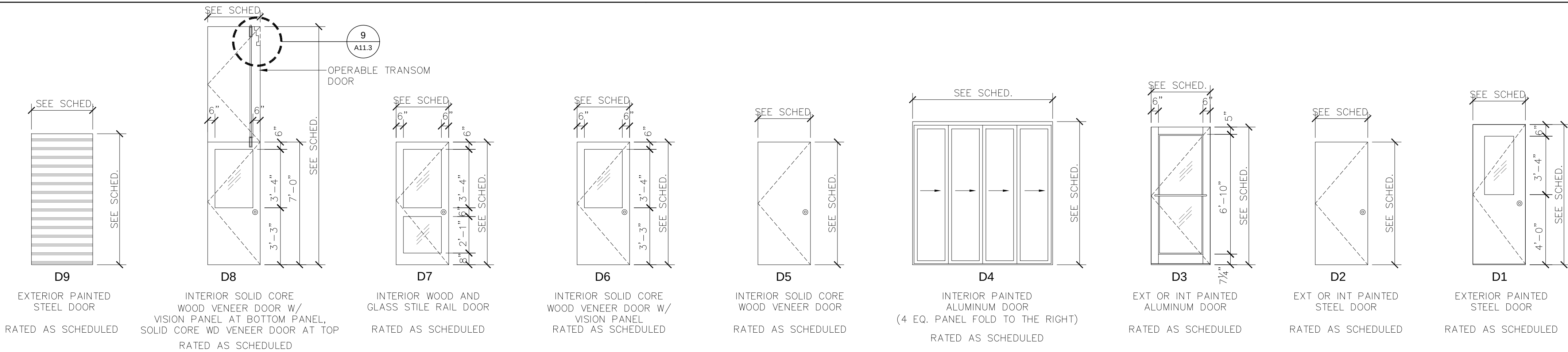
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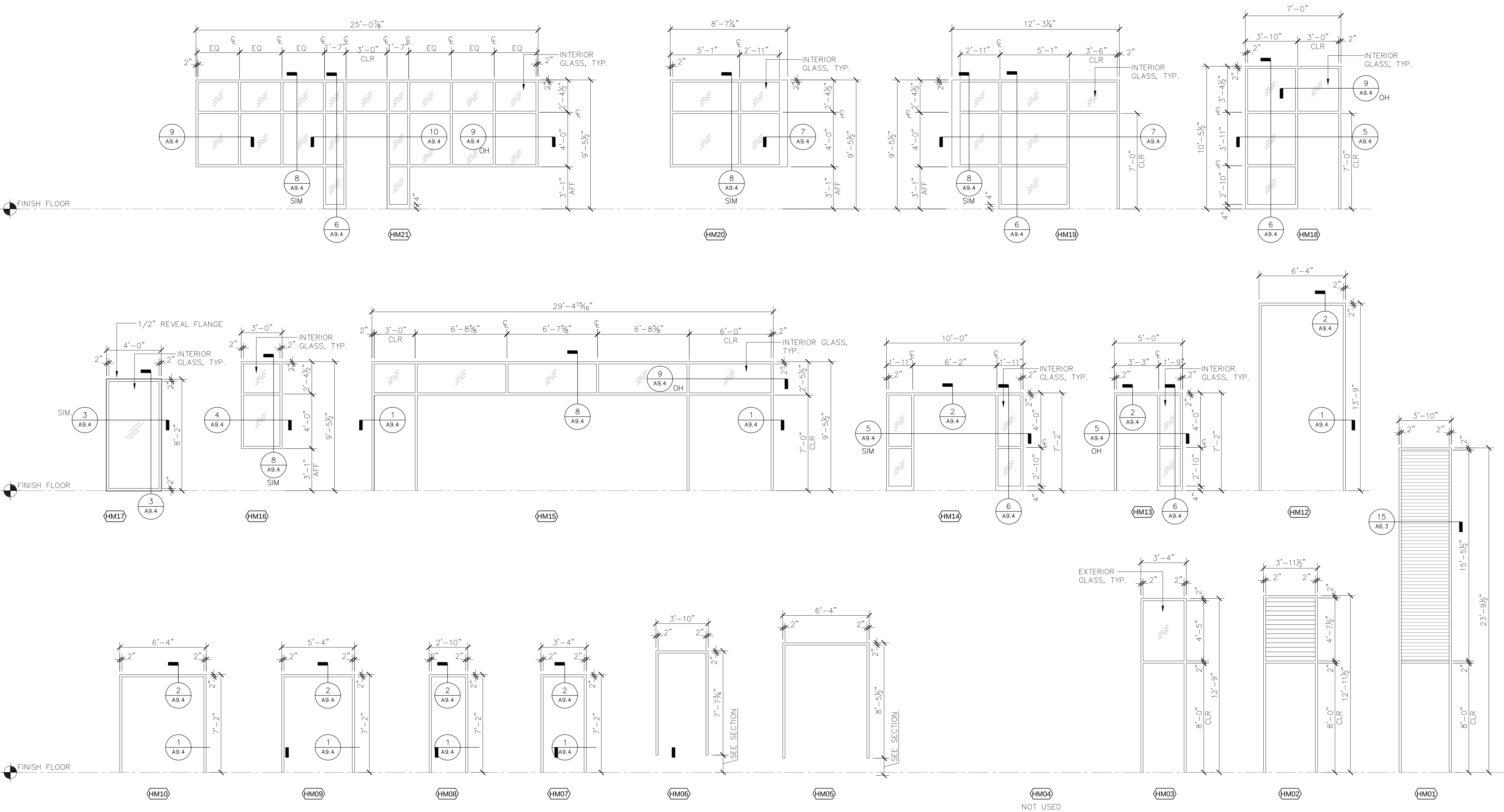
1 DOOR TYPES

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



2 HOLLOW METAL FRAME TYPES AND DIMENSIONS

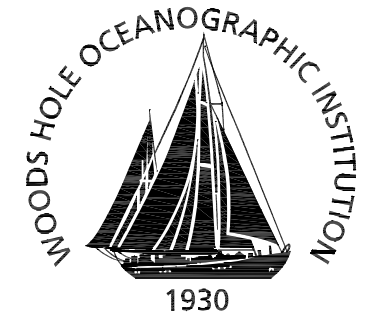
SCALE: 1/4" = 1'-0"



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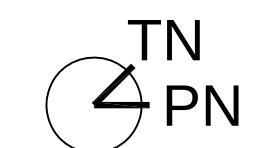
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(617) 254-0016

Columbia Construction Co. Construction Manager 100 Riverpark Drive
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Notes:



Keyplan

Job Number 31003
Drawing By GC
Checked By NC
Filename
Date 15 APRIL 2011

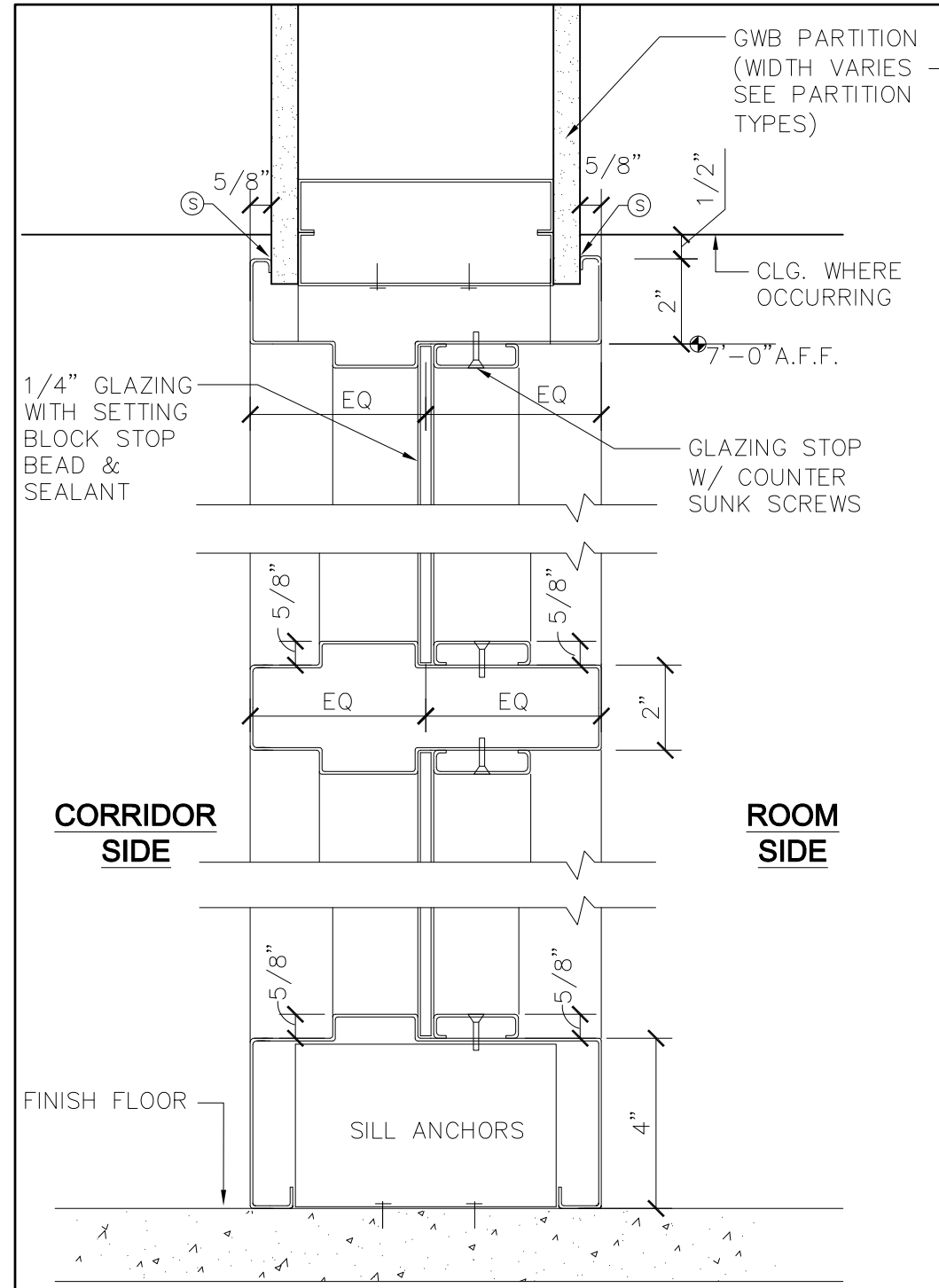
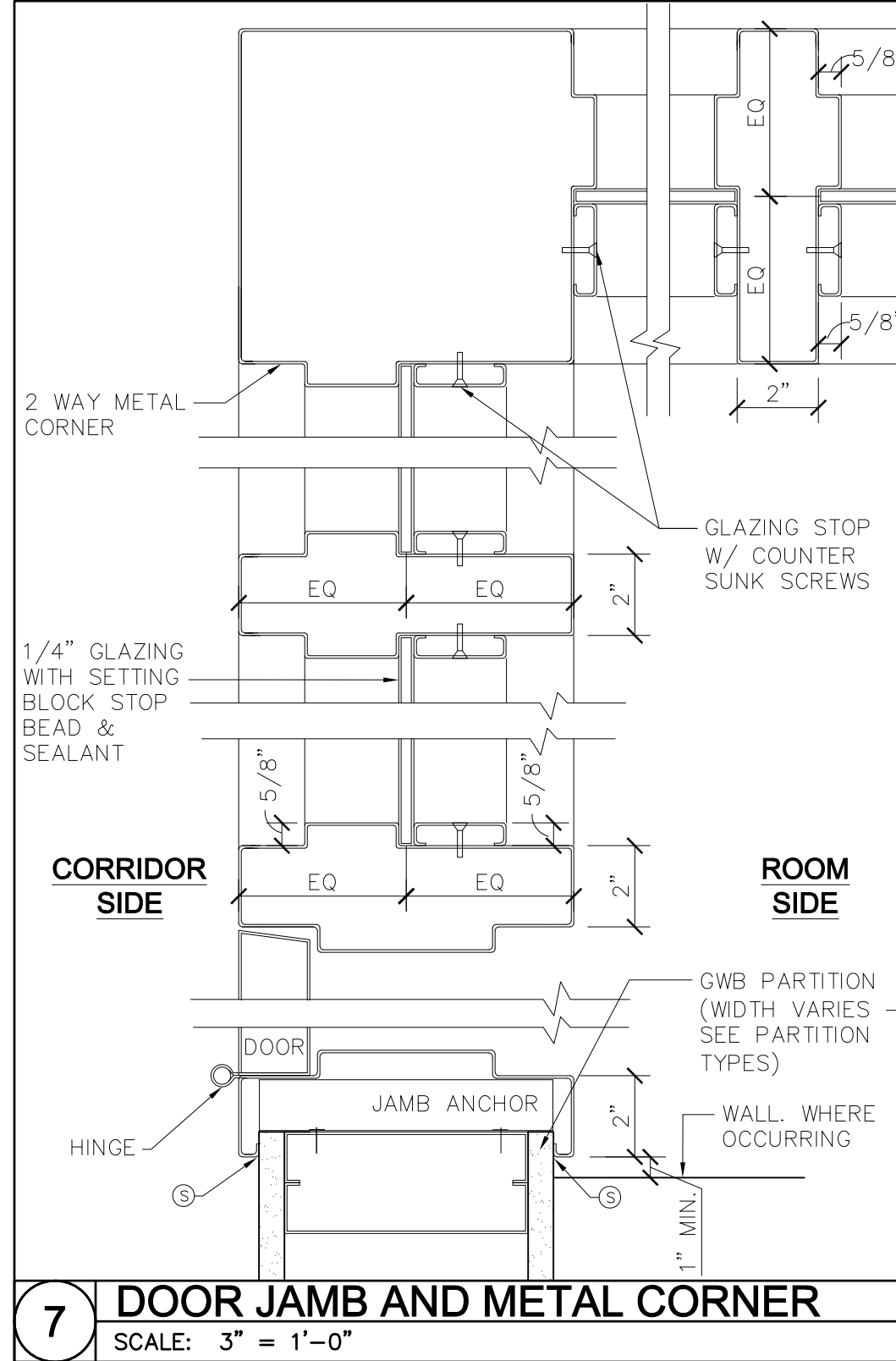
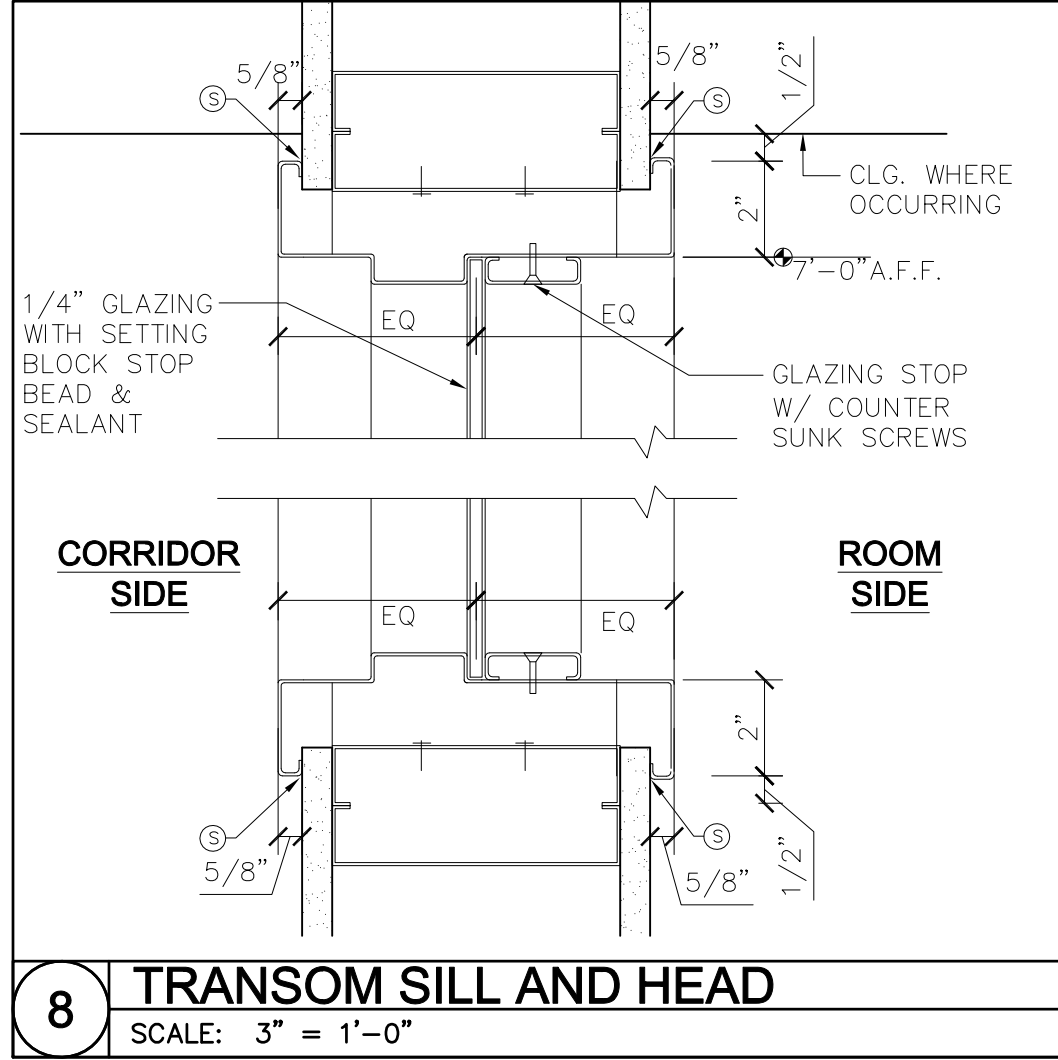
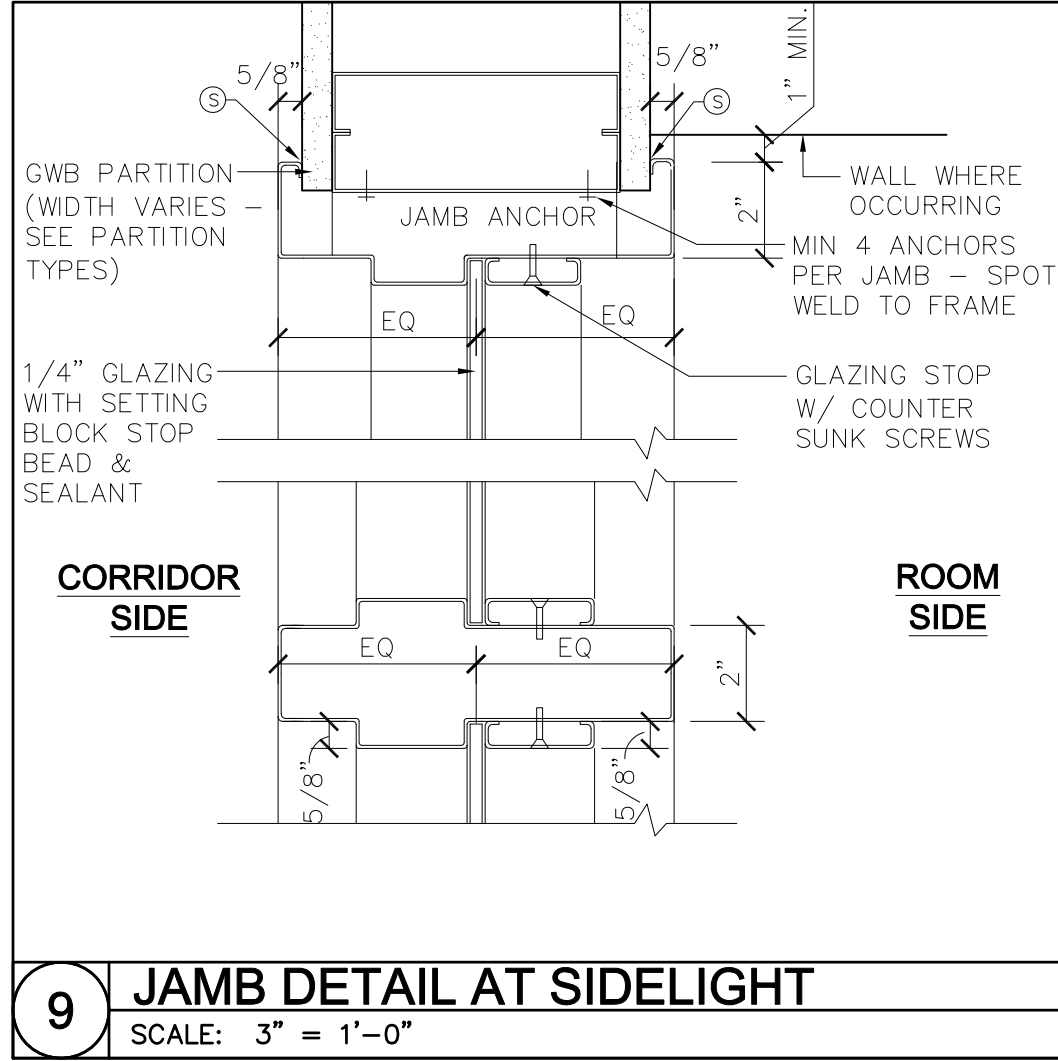
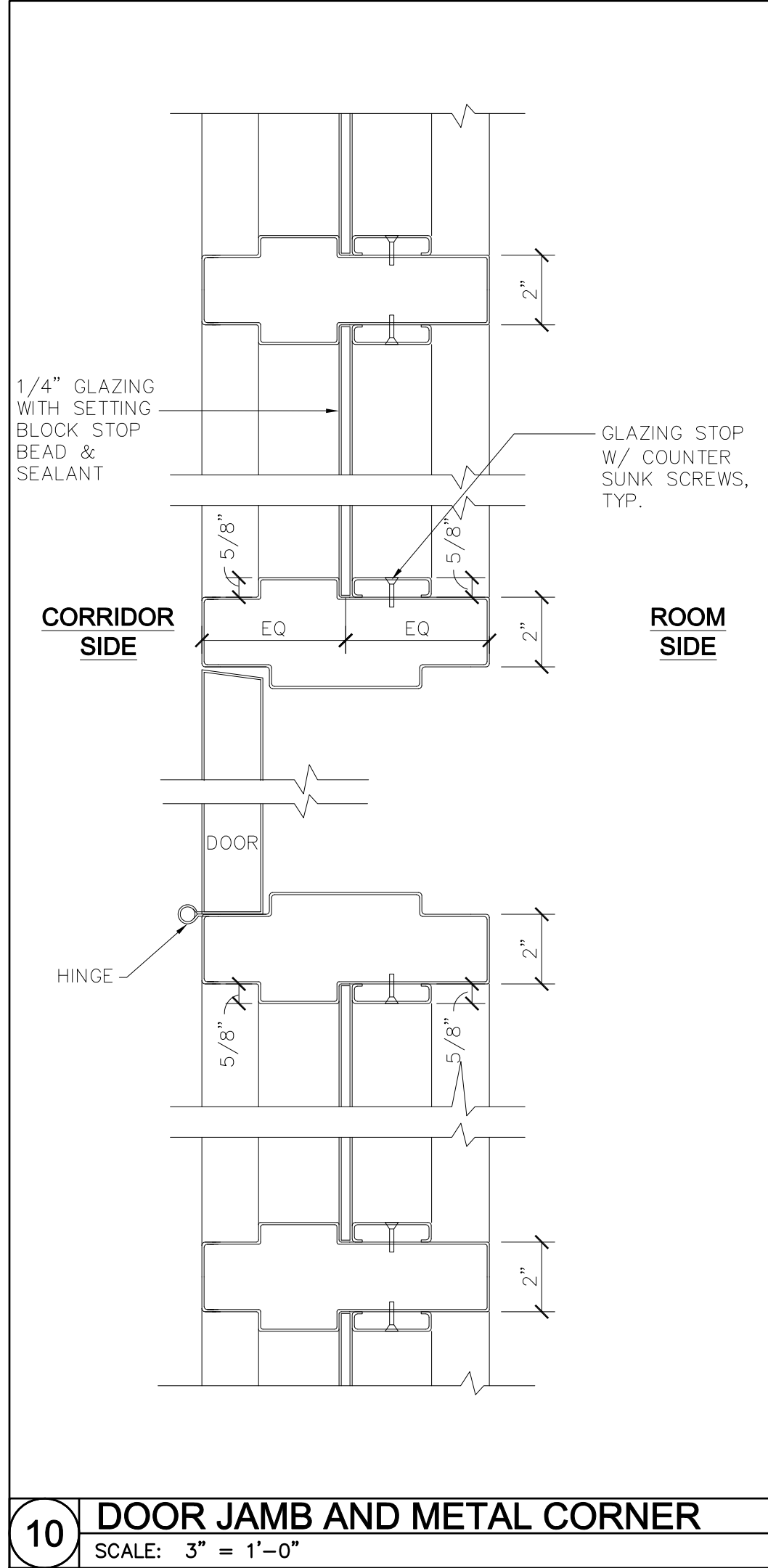
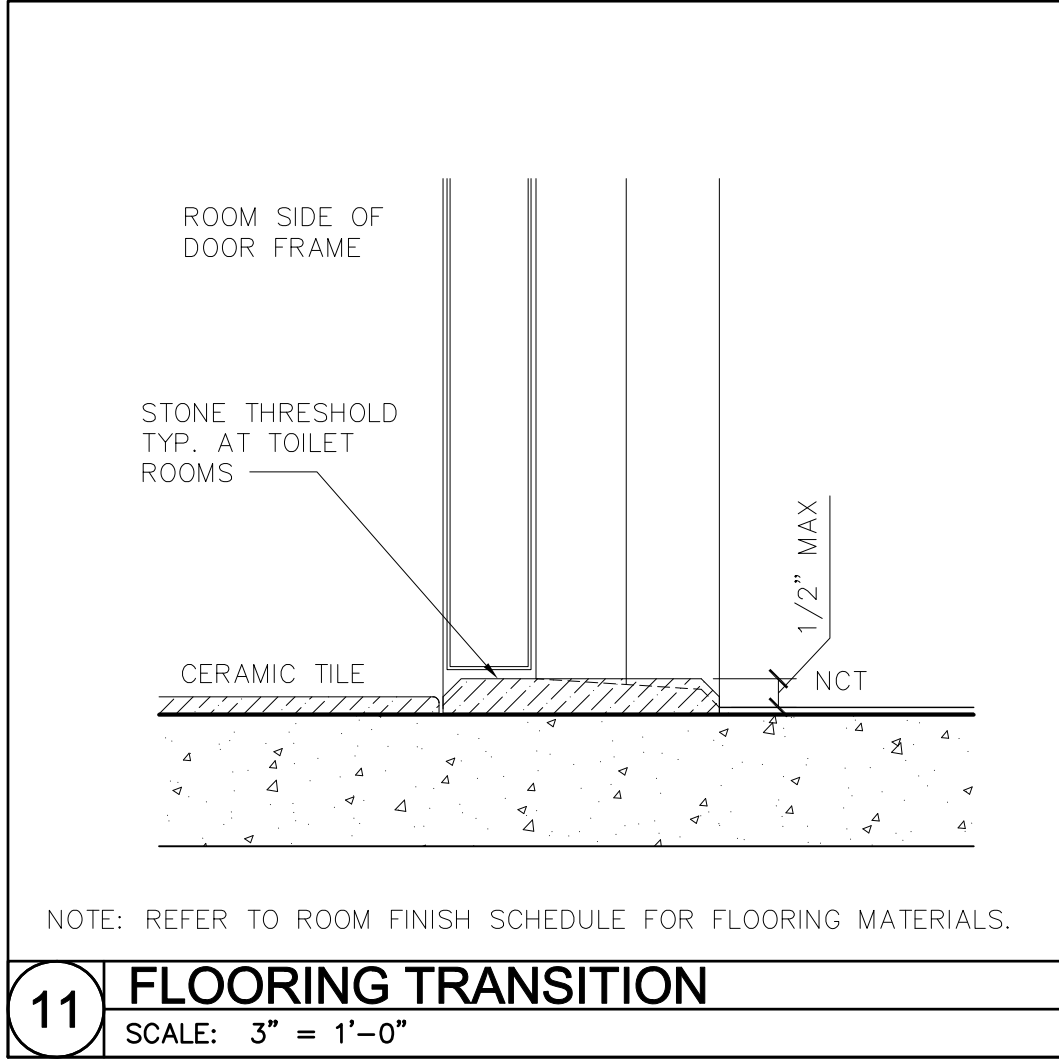
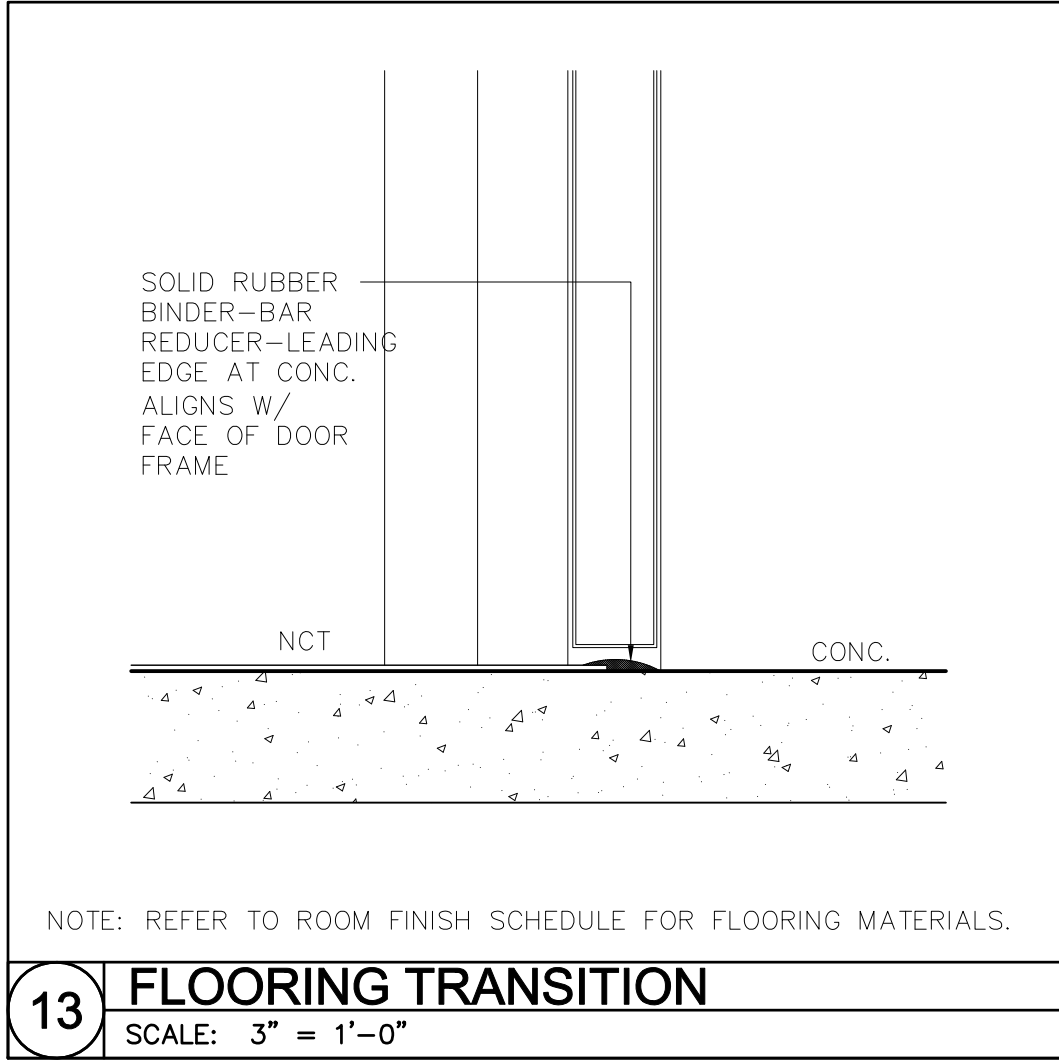
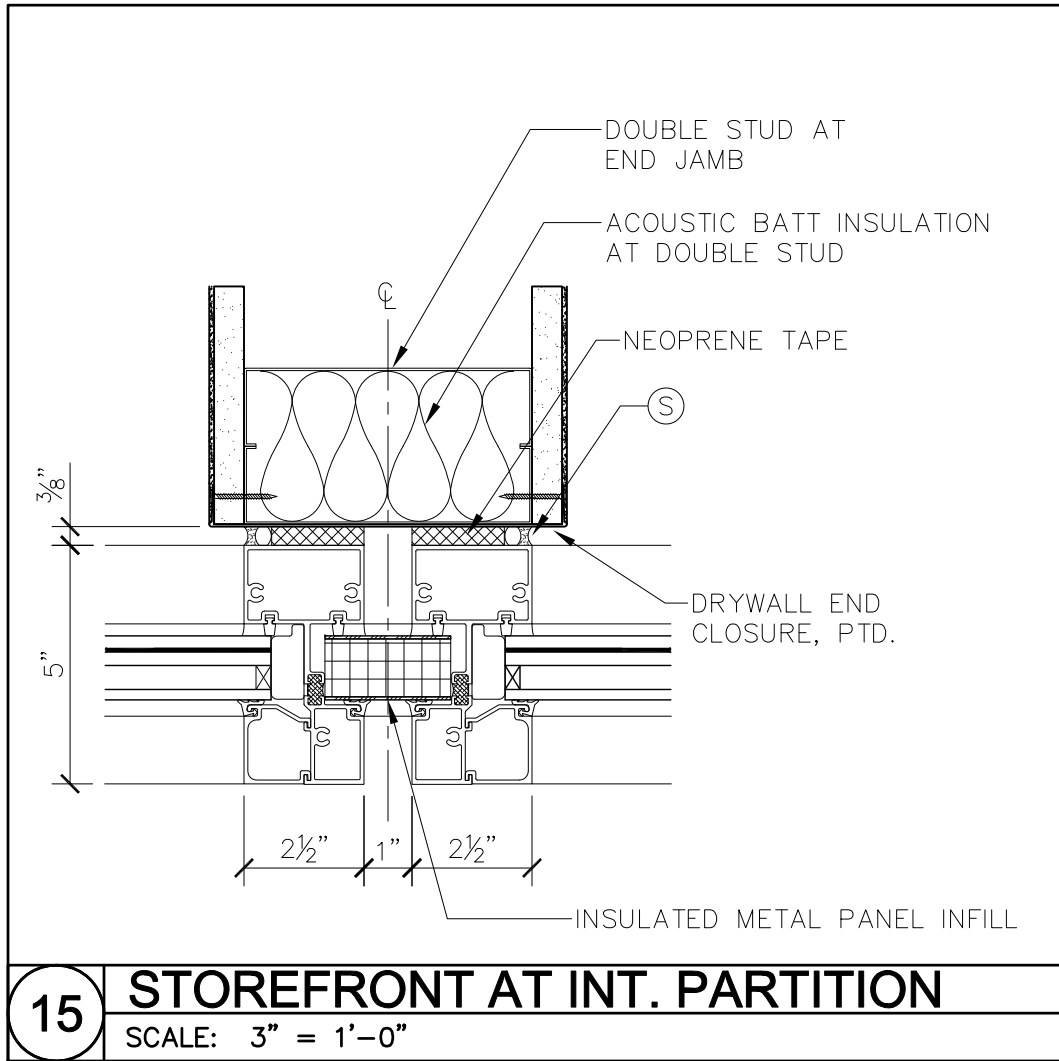
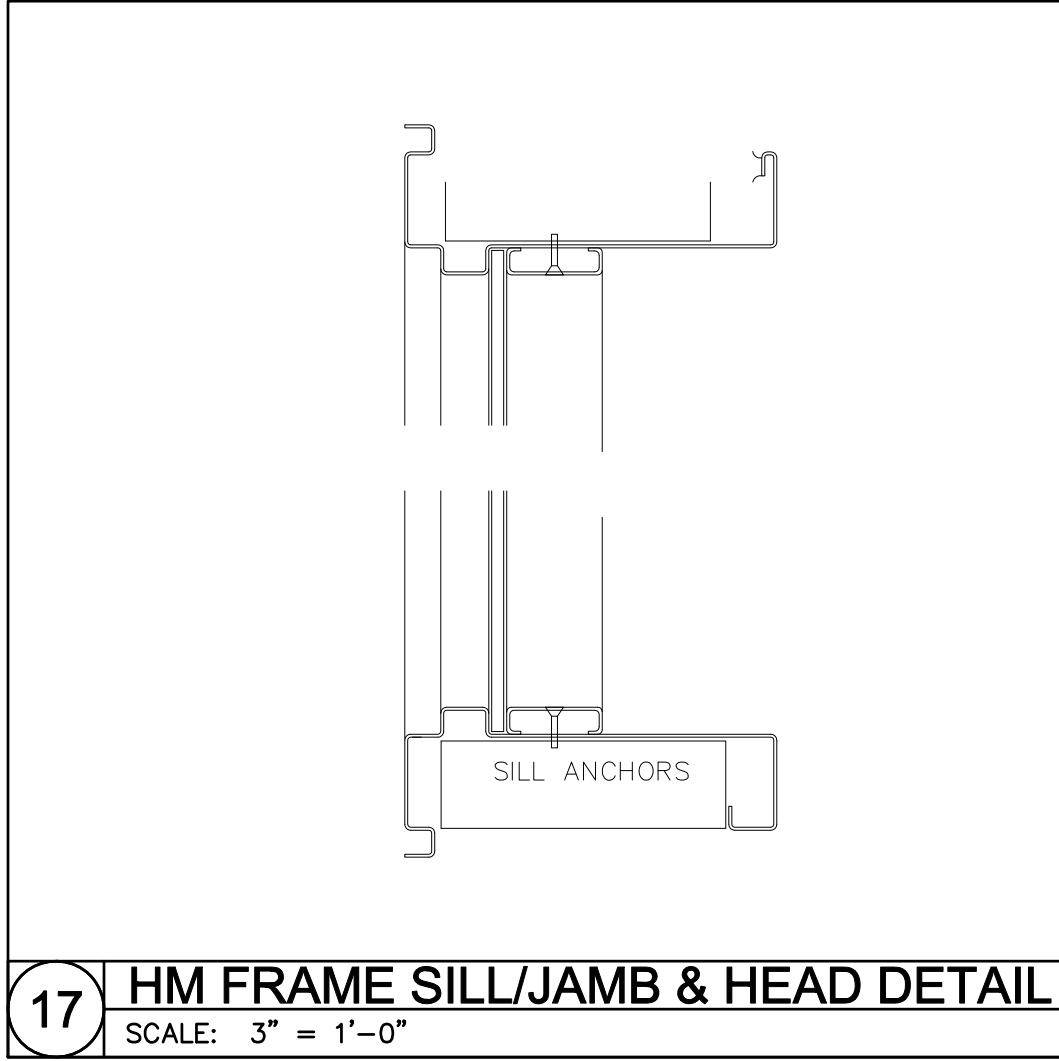
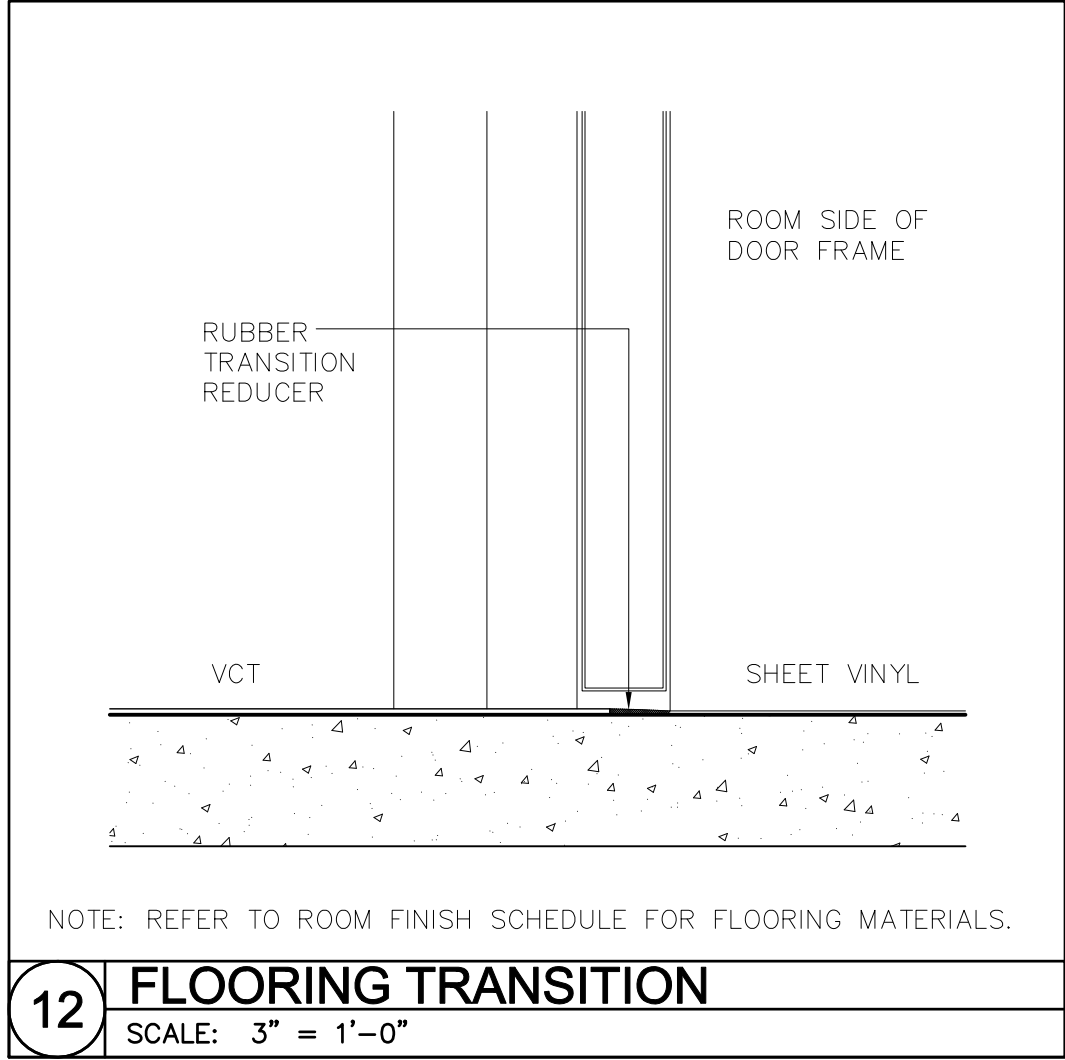
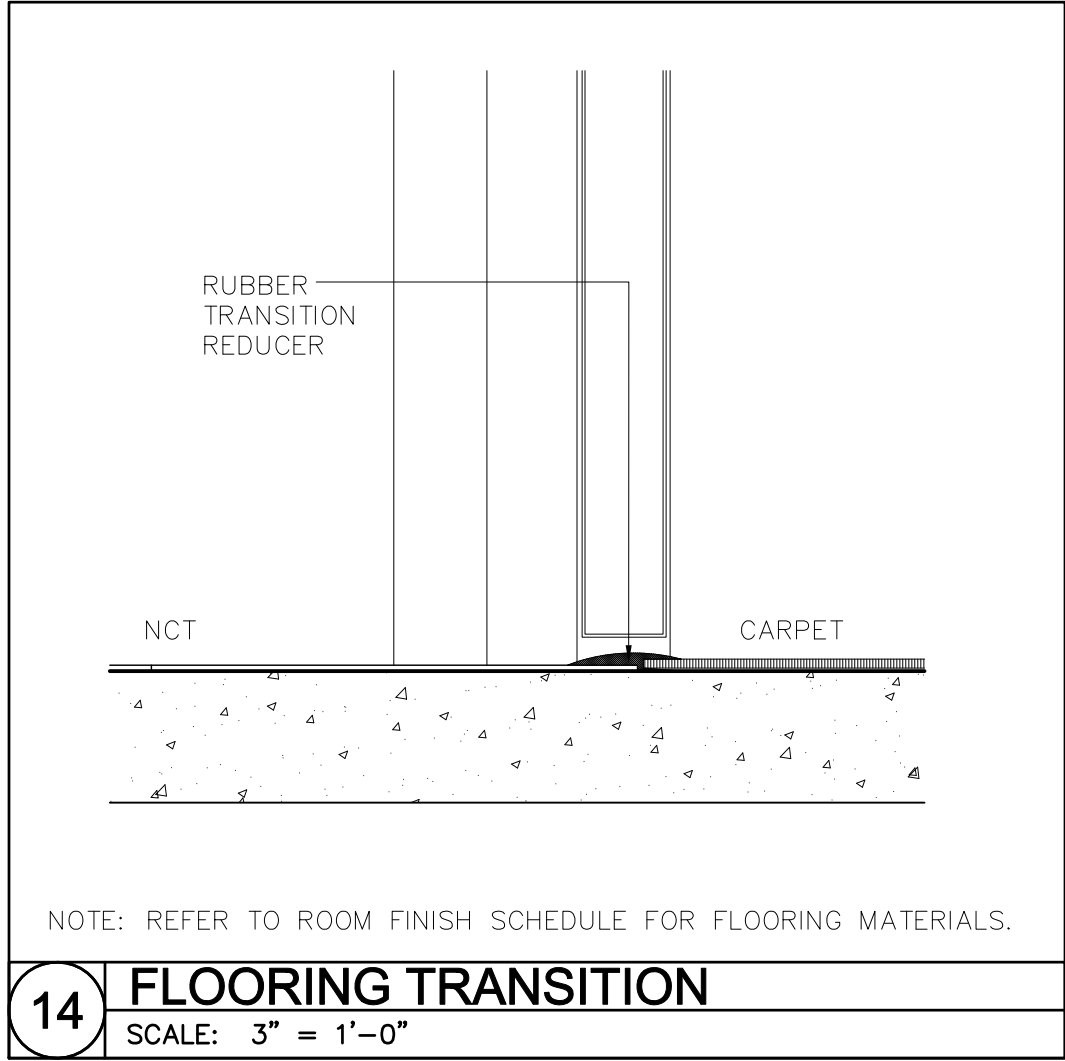
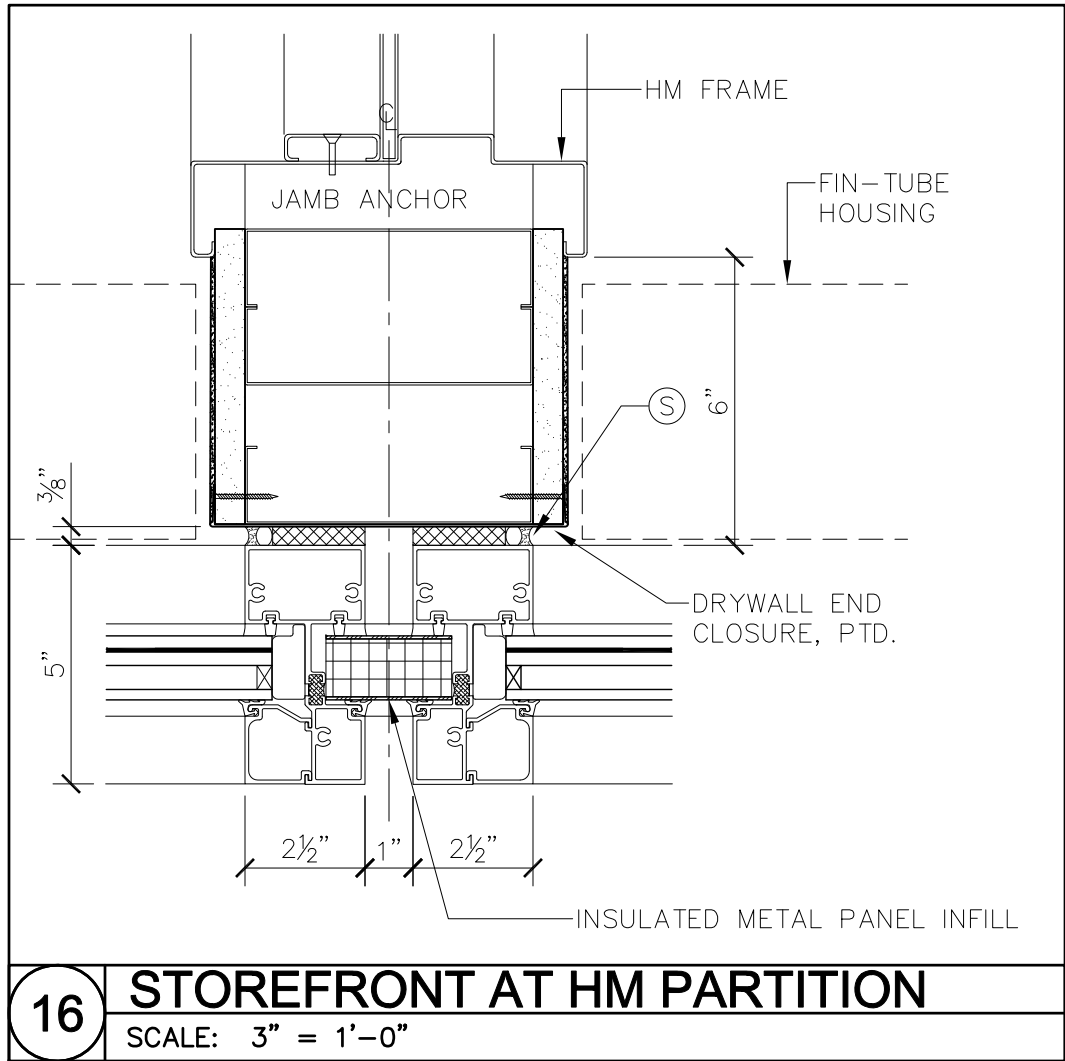
Revisions

DOOR TYPES AND HOLLOW METAL FRAME TYPES

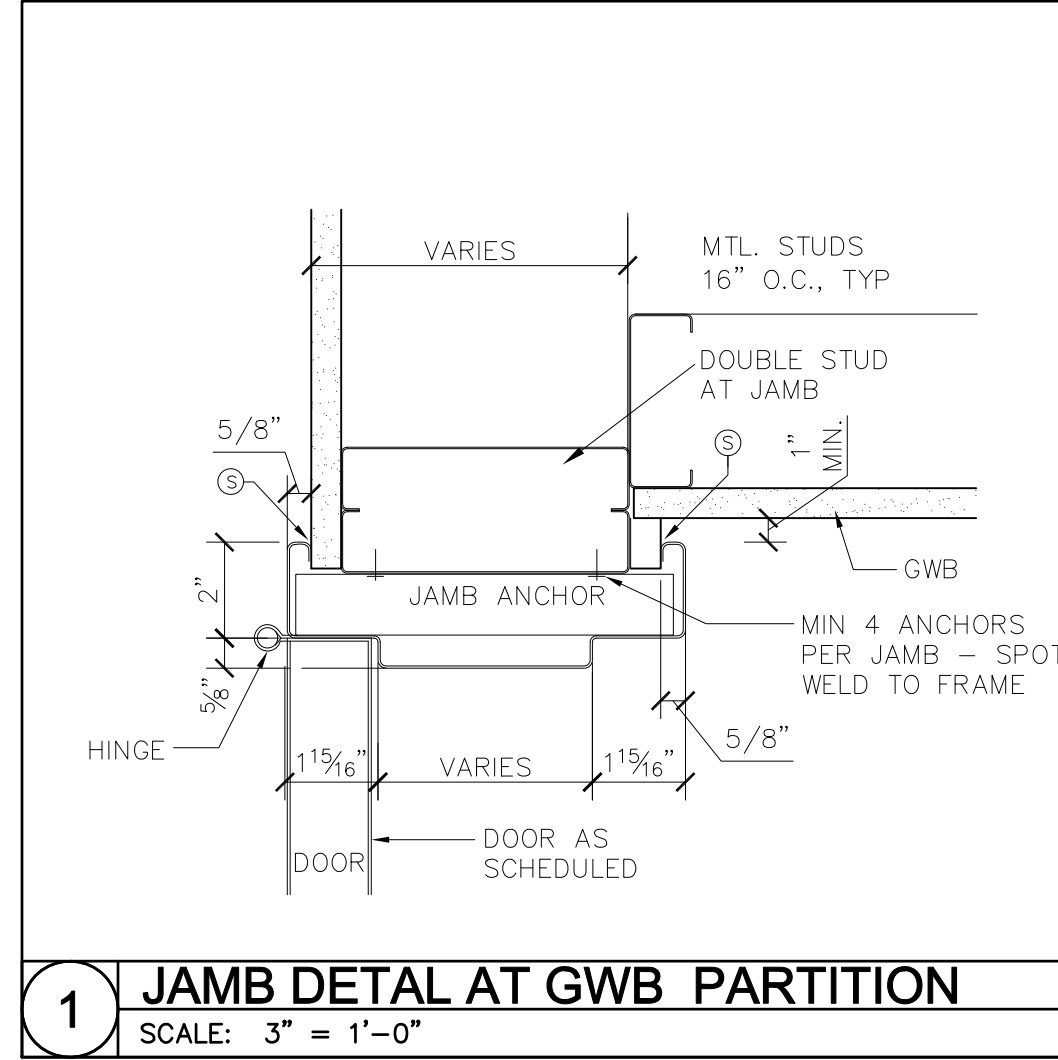
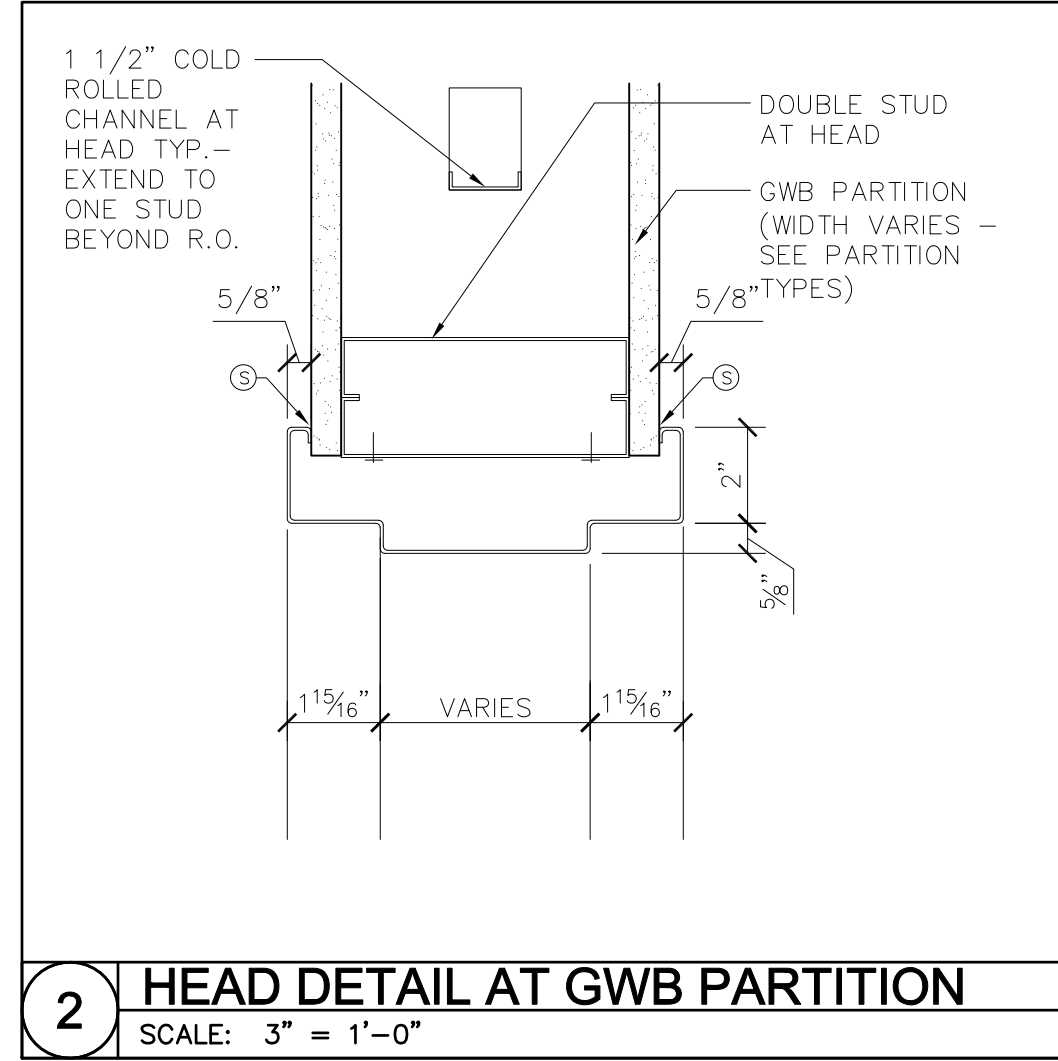
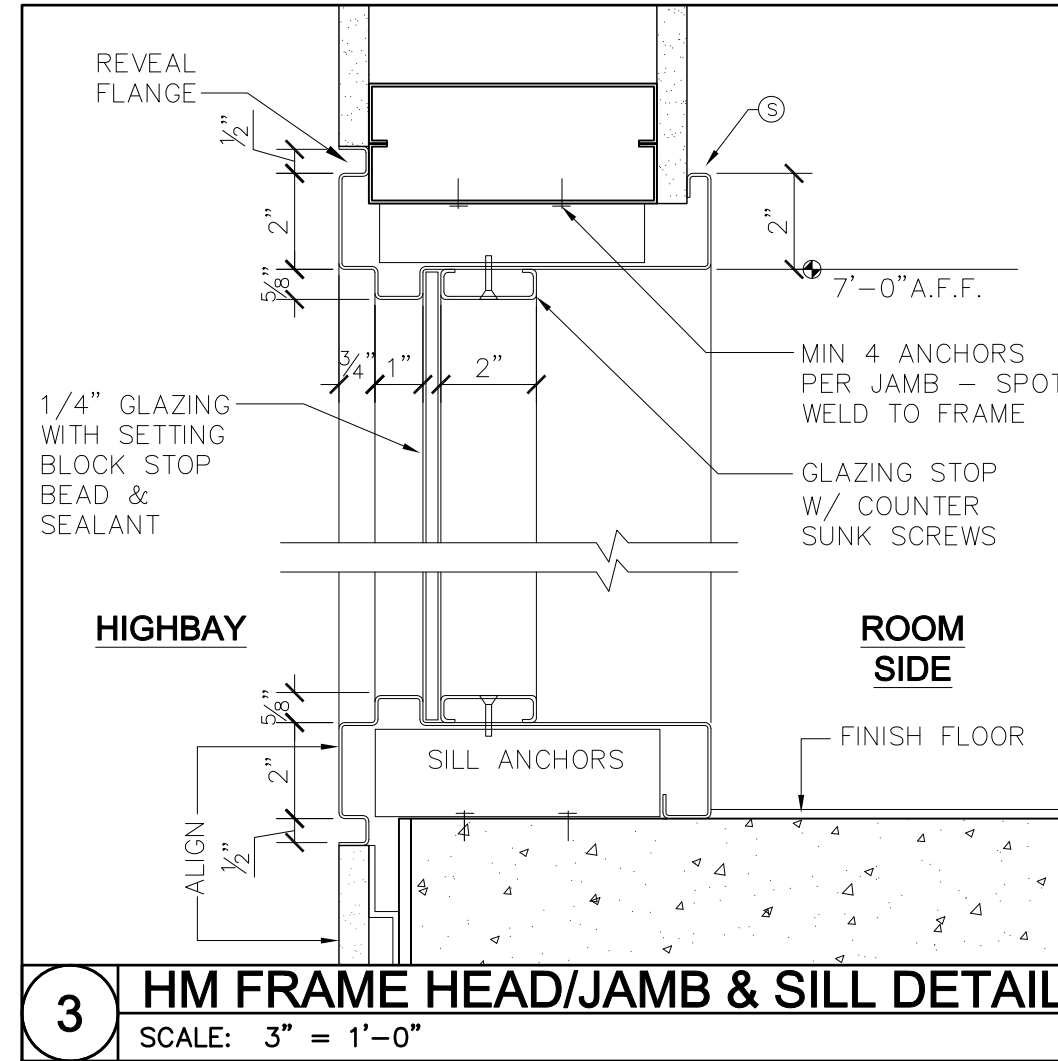
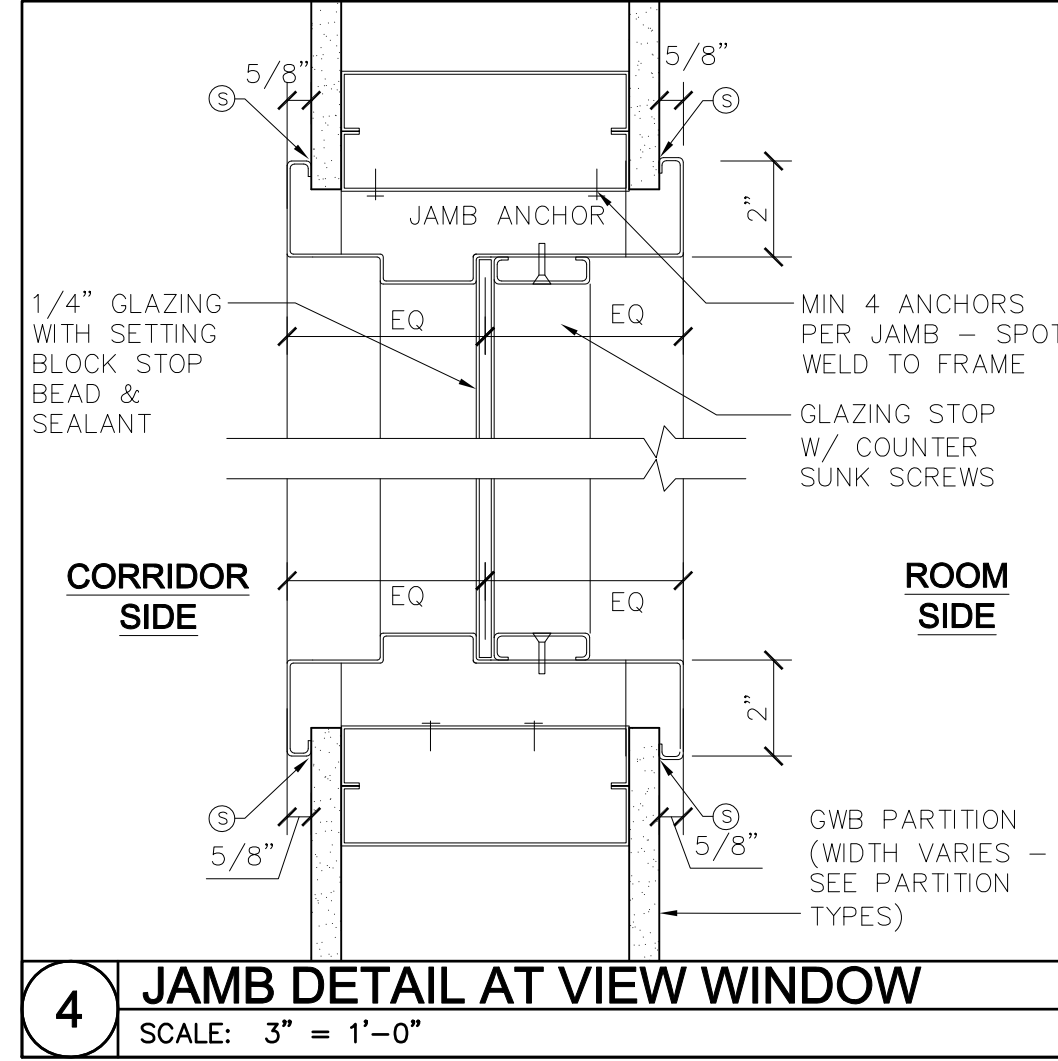
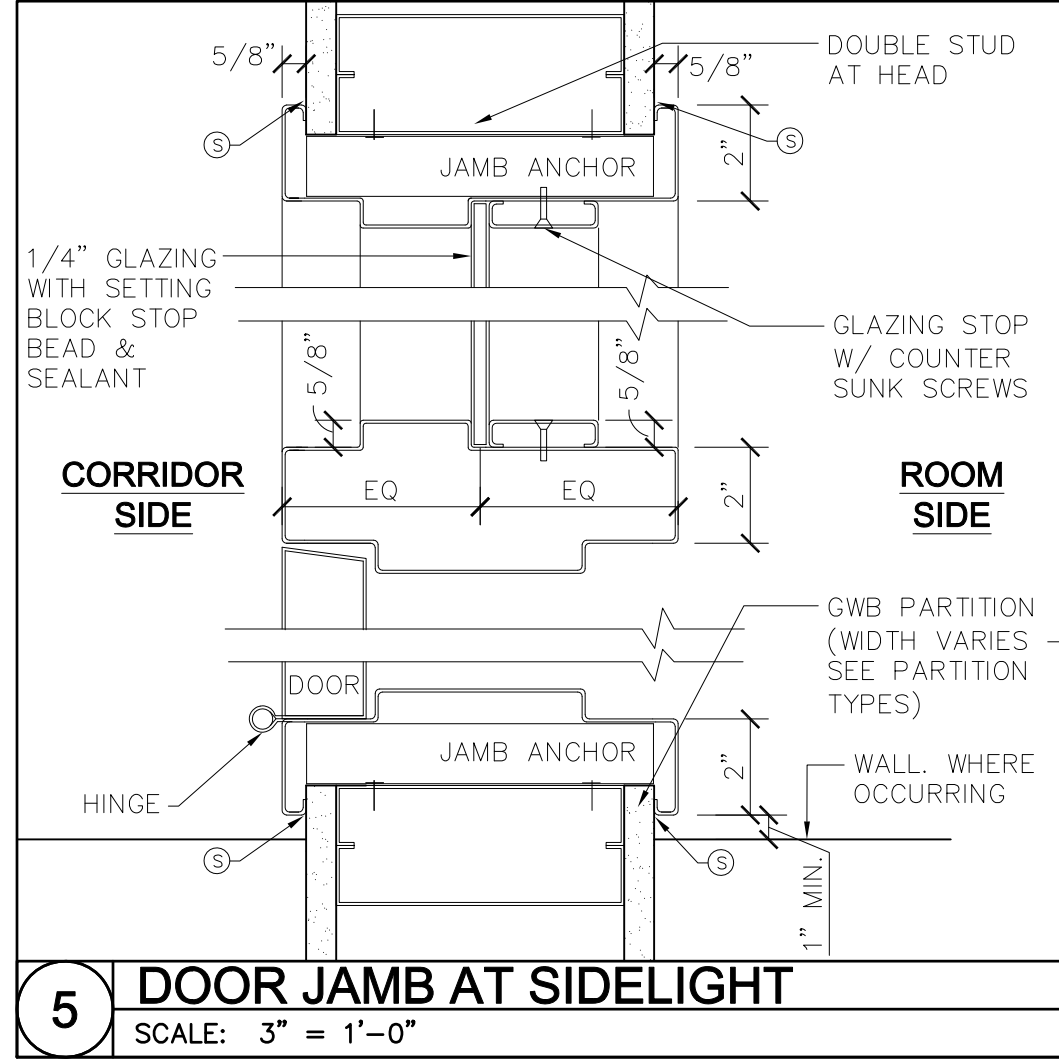
CONSTRUCTION DOCUMENTS
Scale: 1/4" = 1'-0"

A9.3

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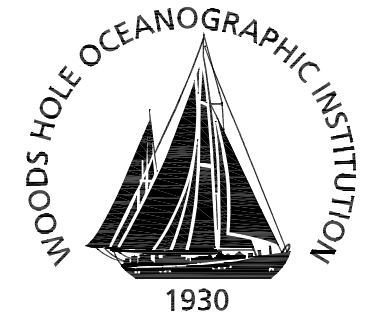
6 SIDELIGHT SILL AND HEAD
SCALE: 3" = 1'-0"



Woods Hole Oceanographic Institution

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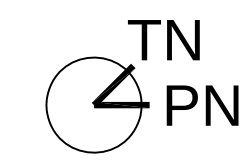
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Notes:



Keyplan

Job Number 31003
Drawing By GC
Checked By NC
Filename 31003-A9.4
Date 15 APRIL 2011

Revisions

ALUMINUM AND HM FRAME DETAILS AND FLOORING TRANSITONS

CONSTRUCTION DOCUMENTS
Scale: 1/8" = 1'-0"

A9.4

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LAB BENCH AND SYSTEM CASEWORK DESIGNATIONS

IB-BB-ST-C

BENCH DESIGNATION, SEE ABBREVIATIONS BELOW

MOBILE BENCH ON 5" CASTERS

UNDER-COUNTER STRUCTURE: FOOTREST

BENCH TOP MATERIAL: BUTCHER BLOCK, EPOXY OR PLASTIC LAMINATE

BENCH TYPE: ISLAND BENCH, WALL BENCH OR WALL SINK BENCH

90x30x38.75

BENCH DIMENSIONS IN INCHES: LENGTH x WIDTH x HEIGHT

FC

CABINET DESIGNATION: FIXED CABINET OR MOBILE CABINET ON CASTERS

LAB BENCH AND SYSTEM CASEWORK ABBREVIATIONS

BB

BUTCHER BLOCK BENCH TOP

C

MOBILE BENCH ON 5" CASTERS

EP

EPOXY BENCH TOP

ESD

ELECTRO-STATIC DISSIPATIVE PLASTIC LAMINATE COUNTER

FC

FIXED CABINET

FR

FOOTREST

KS

KNEE SPACE

IB

ISLAND BENCH

MC

MOBILE CABINET ON CASTERS

PL

PLASTIC LAMINATE BENCH TOP

WB

WALL BENCH W/ 3" BACKSPLASH

WSB

WALL SINK BENCH, EPOXY SINK AND BENCH TOP, W/ 3" BACKSPLASH

WOOD CABINET, TYP.

REMOVABLE TOP DRAWER MODULE, TYP.

PHENOLIC RESIN LINED TRASH RECEPTACLE SPACE

WOOD CABINET, TYP.

MC.1

CABINET TYPE 1

20" DEPTH

MC.2

CABINET TYPE 2

20" DEPTH

MC.3

CABINET TYPE 3

20" DEPTH

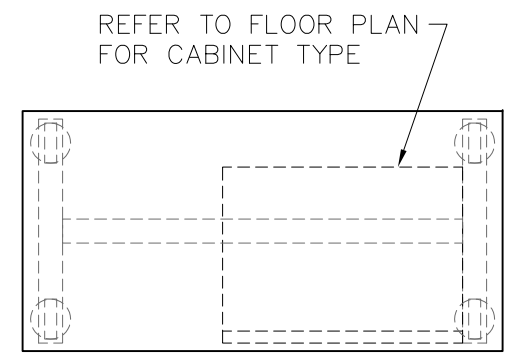
ESP LABORATORY CASEWORK CABINET TYPES

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

2

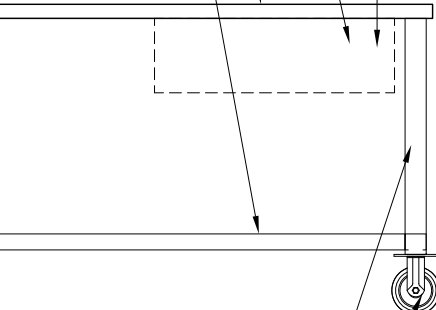
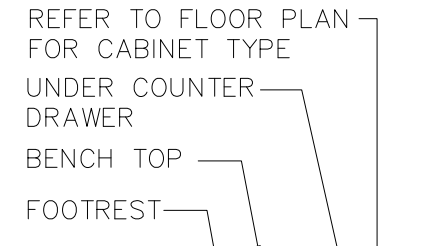
SYSTEM CASEWORK CABINET TYPES

PLANS



Length, Width, Height As Shown

IB
Bench Top Material: Refer to Floor Plan
SH
C



PAINTED METAL LEG
CASTER

ELEVATIONS

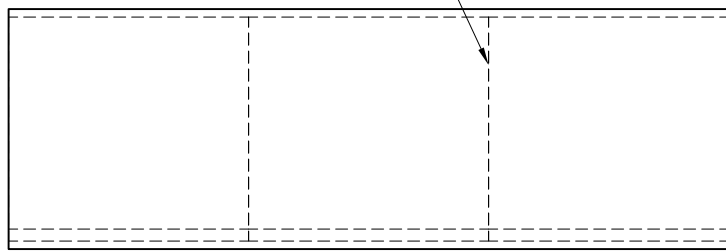
NOTE:
REFER TO ENLARGED FLOOR PLANS FOR LAB BENCH
AND CASEWORK DESIGNATIONS.

1

LAB BENCH TYPES

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

REFER TO FLOOR PLAN
FOR CABINET TYPE



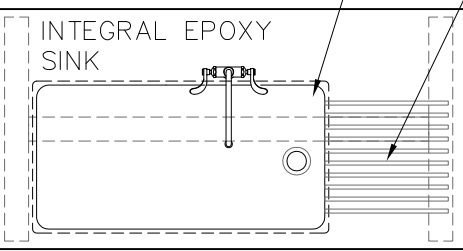
Length, Width, Height As Shown

IB
Bench Top Material: Refer to Floor Plan

BENCH TOP

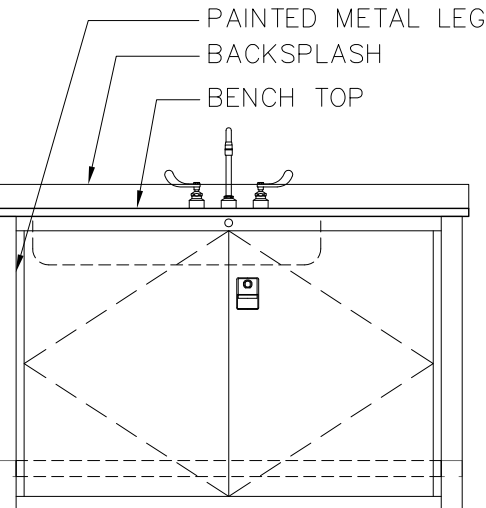
REFER TO FLOOR
PLAN FOR CABINET
TYPE

3/4" DIAMETER DRAINAGE GROOVES
ROUTED INTO EPOXY Bench Top:
2" O.C. SLOPE TO DRAIN, 1/2" TO 3/4"
DEEP AT SINK
REFER TO FLOOR PLAN
FOR SINK SIZE

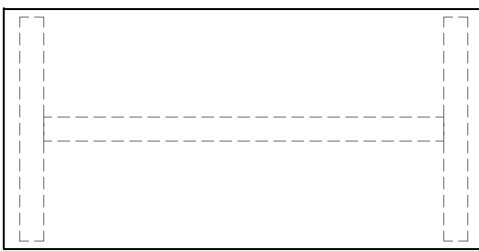


Length, Width, Height As Shown

WSB
Bench Top Material: Refer to Floor Plan
SH

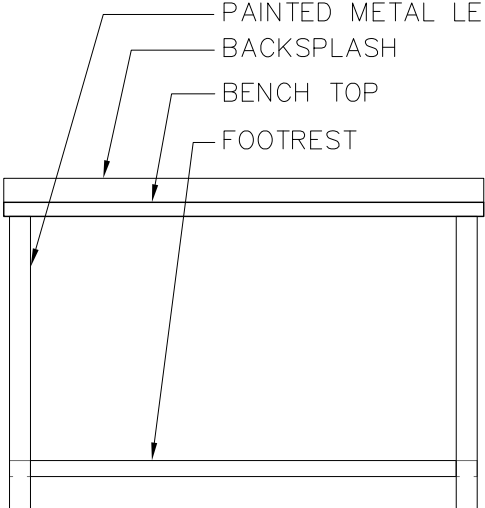


PAINTED METAL LEG
BACKSPLASH
BENCH TOP



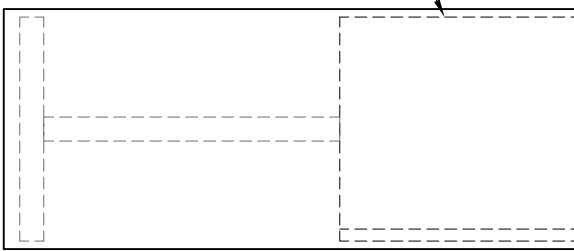
Length, Width, Height As Shown

WB
Bench Top Material: Refer to Floor Plan
SH



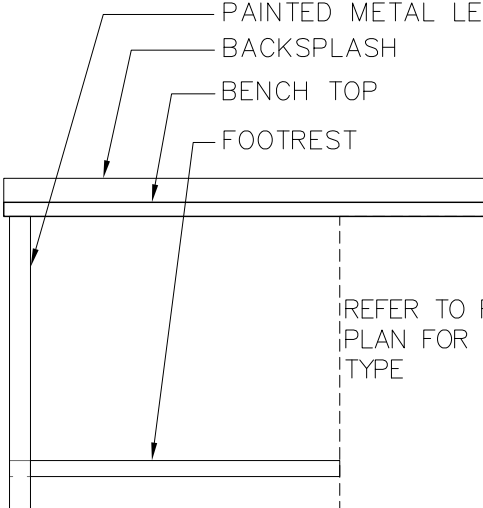
PAINTED METAL LEG
BACKSPLASH
BENCH TOP
FOOTREST

REFER TO FLOOR PLAN
FOR CABINET TYPE



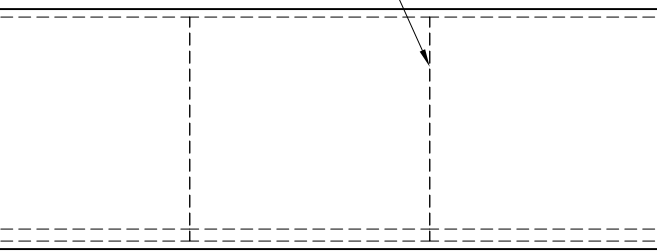
Length, Width, Height As Shown

WB
Bench Top Material: Refer to Floor Plan
SH



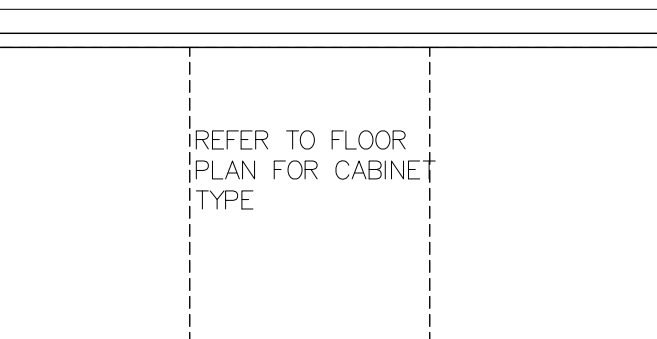
PAINTED METAL LEG
BACKSPLASH
BENCH TOP
FOOTREST

REFER TO FLOOR PLAN
FOR CABINET TYPE



Length, Width, Height As Shown

WB
Bench Top Material: Refer to Floor Plan

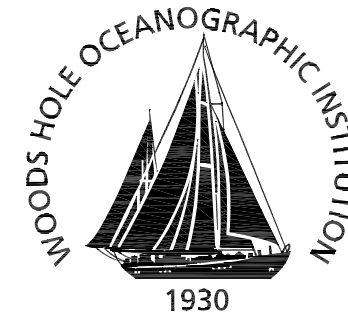


REFER TO FLOOR
PLAN FOR CABINET
TYPE

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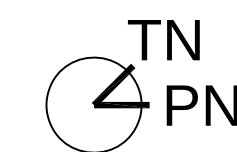
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Notes:



Keyplan

Job Number 31003
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Date 15 APRIL 2011

Revisions

CASEWORK SCHEDULES

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A10.1

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Observing Systems (LOSOS)

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TN
PN

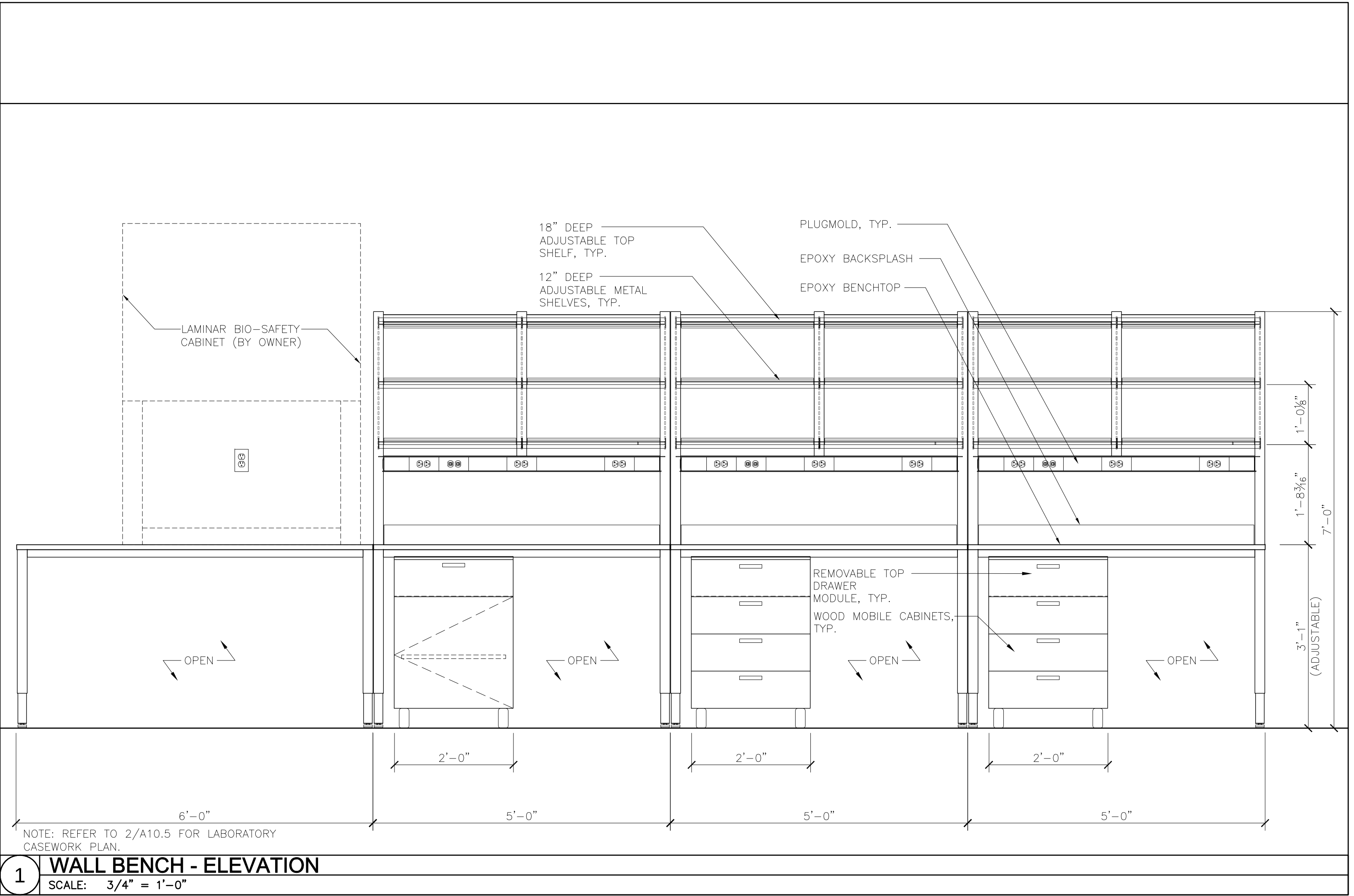
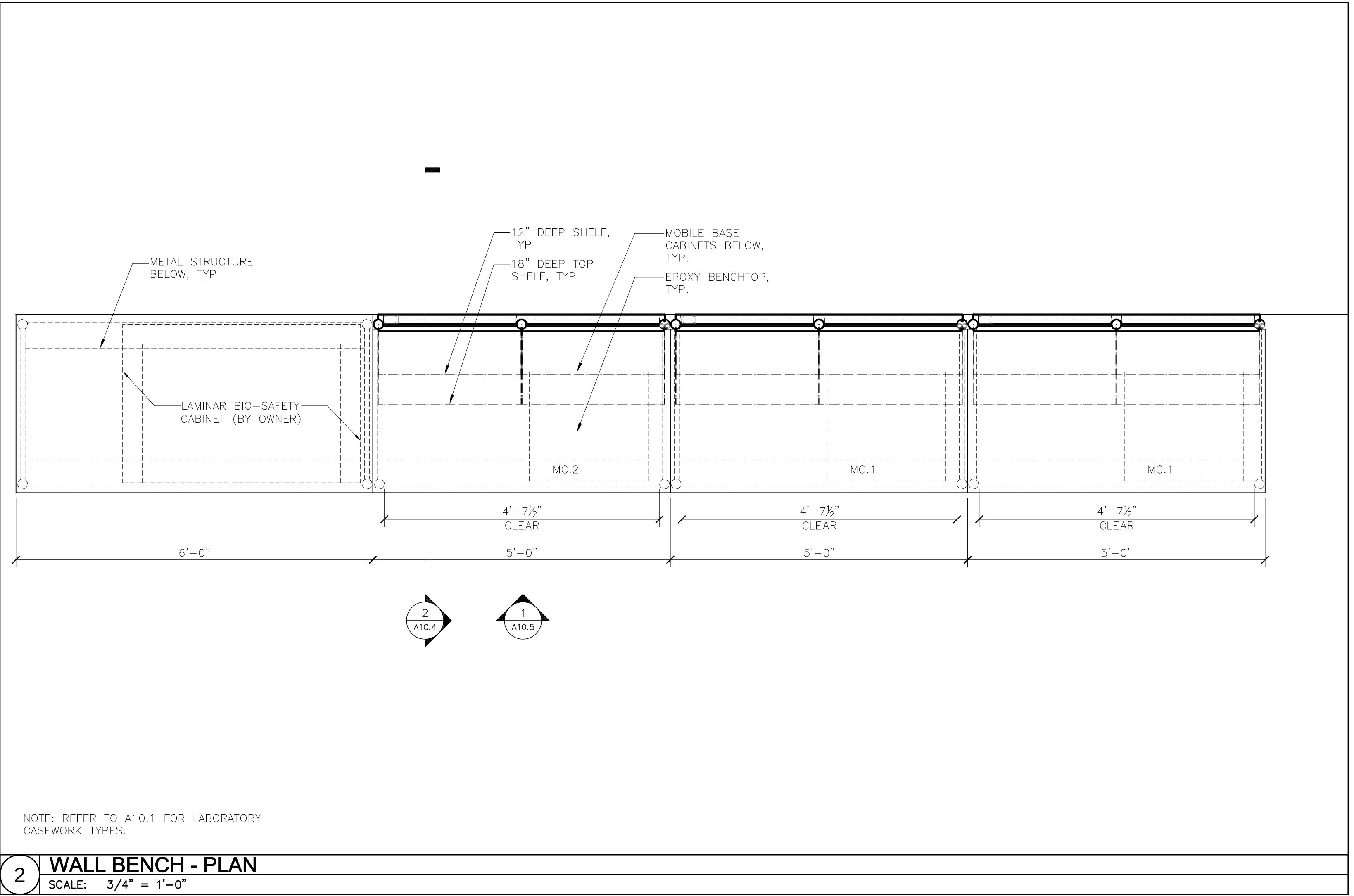
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Drawing By GC
Checked By NC
Filename 31003-A10.2
Date 15 APRIL 2011

CASEWORK SCHEDULES

A10.2



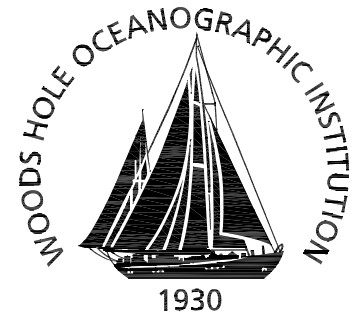
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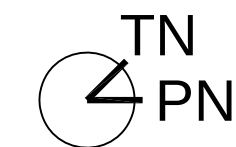
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Keyplan

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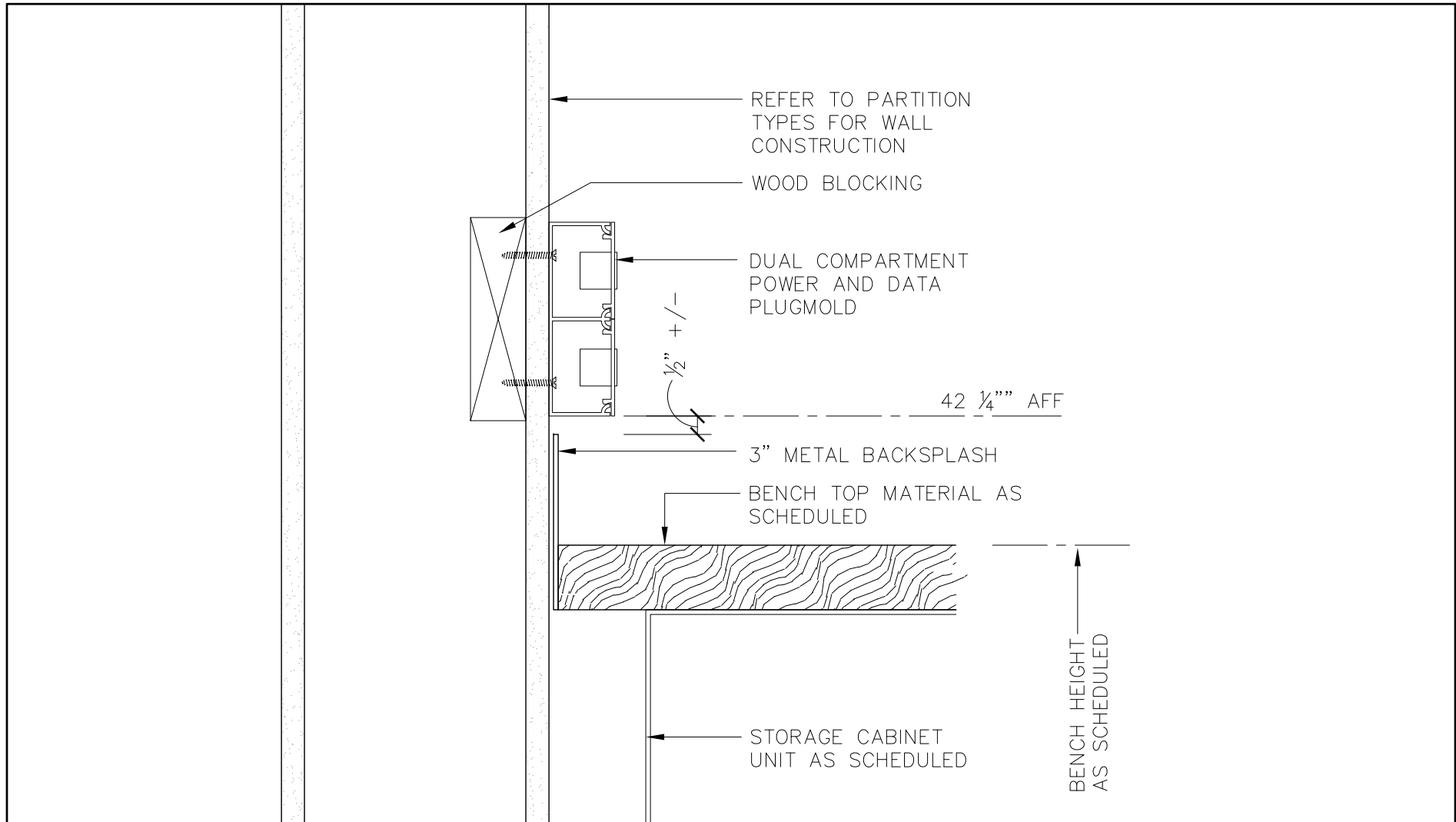
Revisions

ESP LABORATORY CASEWORK

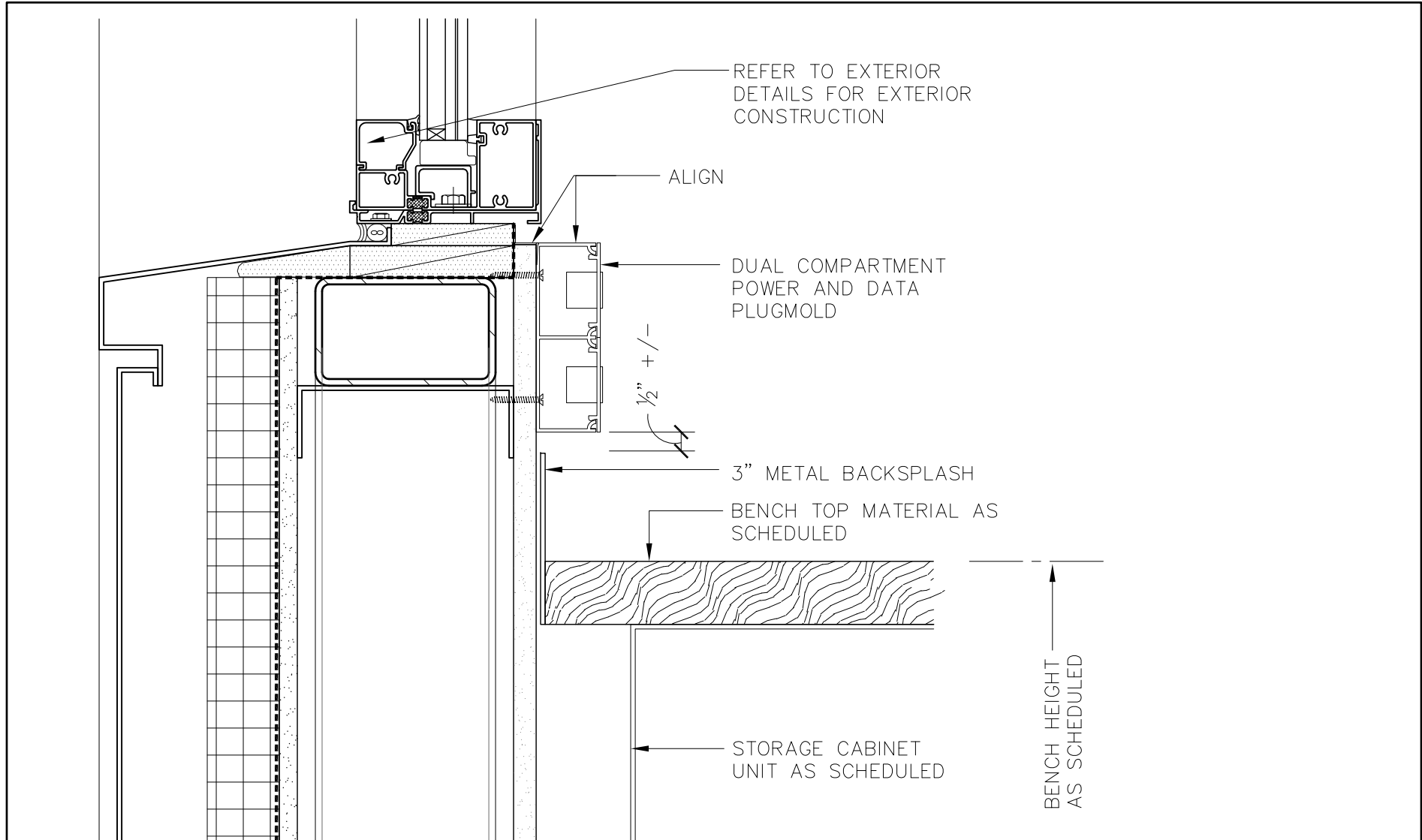
CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A10.5

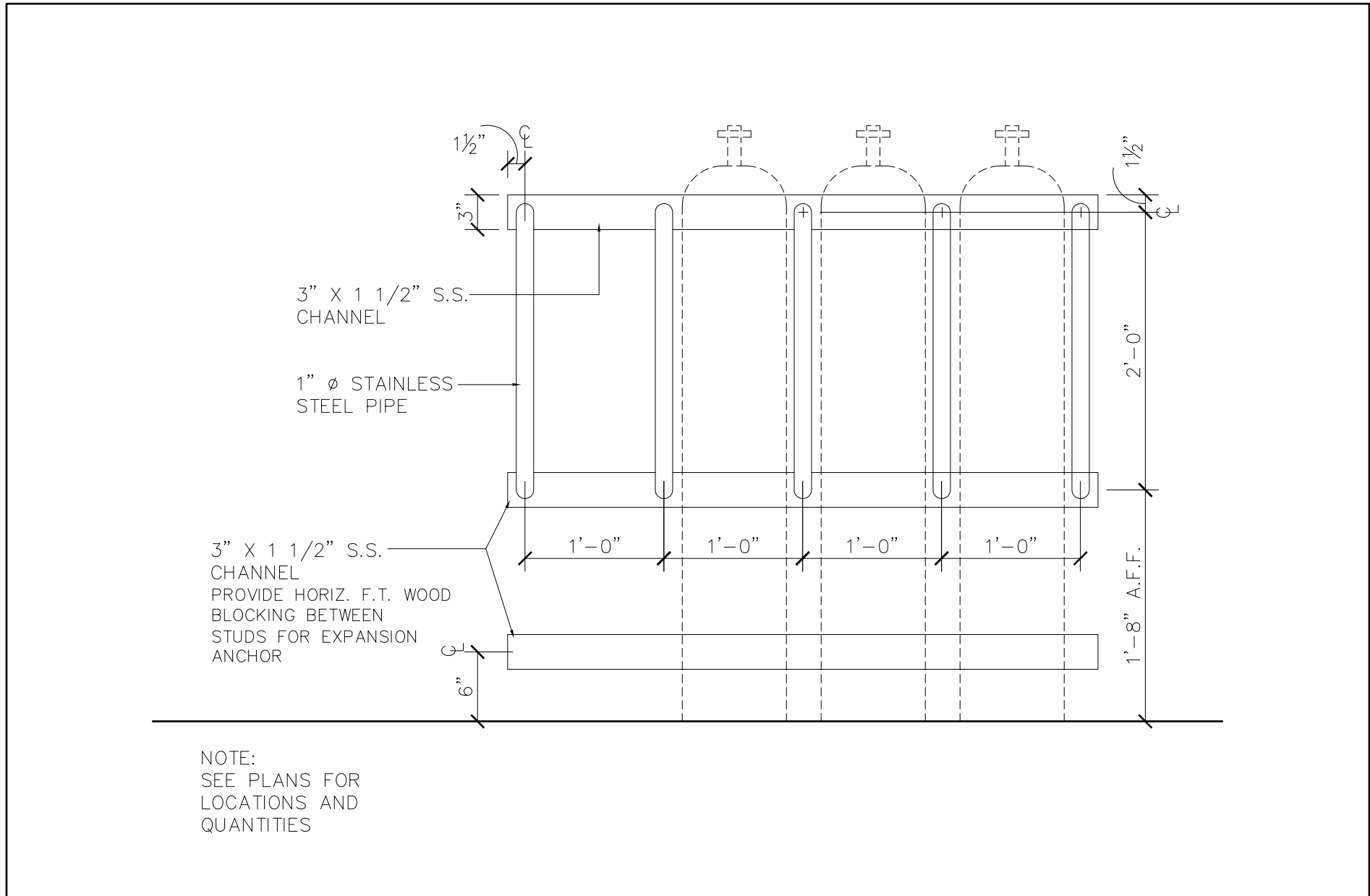
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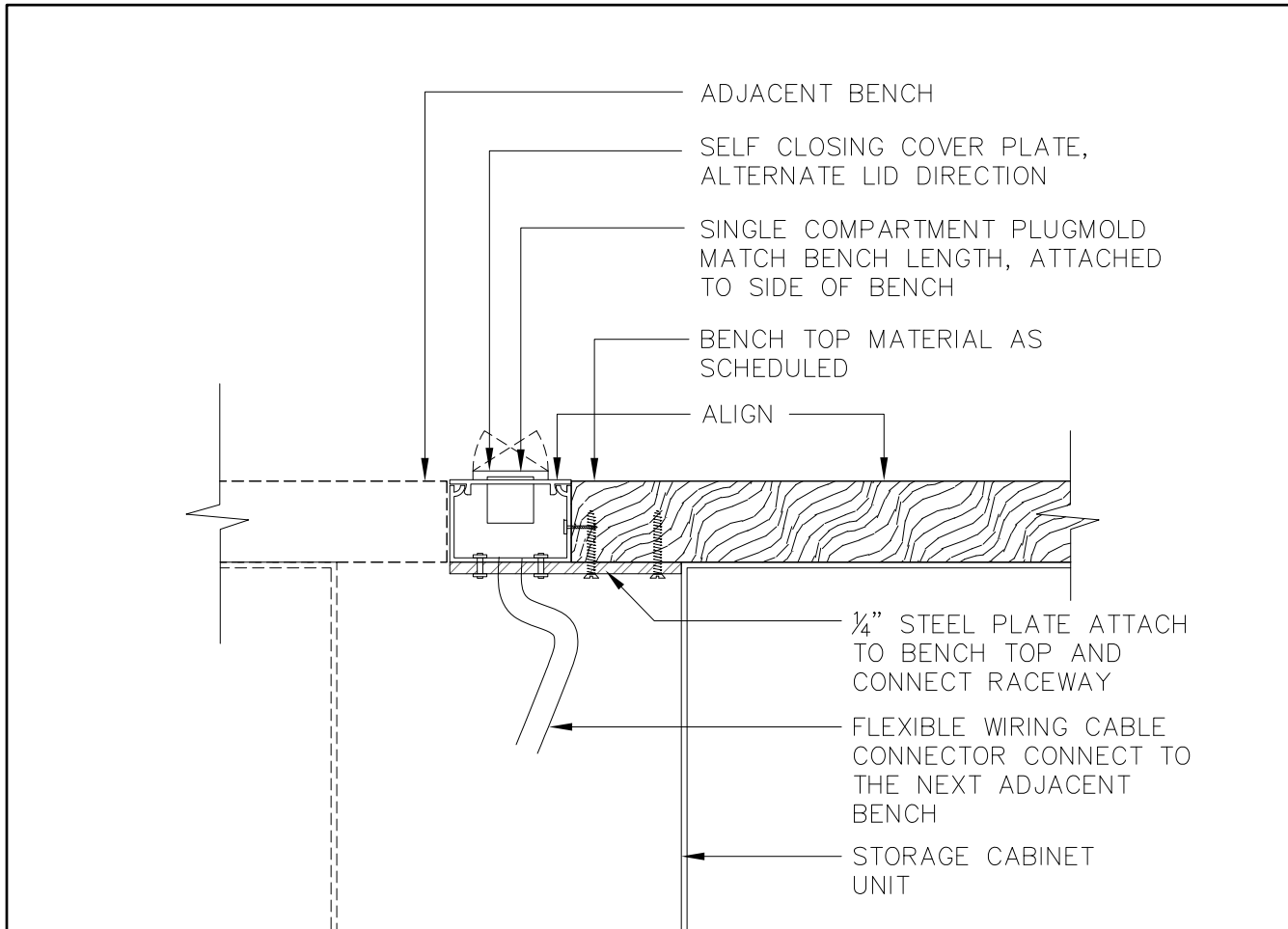
8 PLUGMOLD AT TYPICAL GWB WALL
SCALE: 3" = 1'-0"



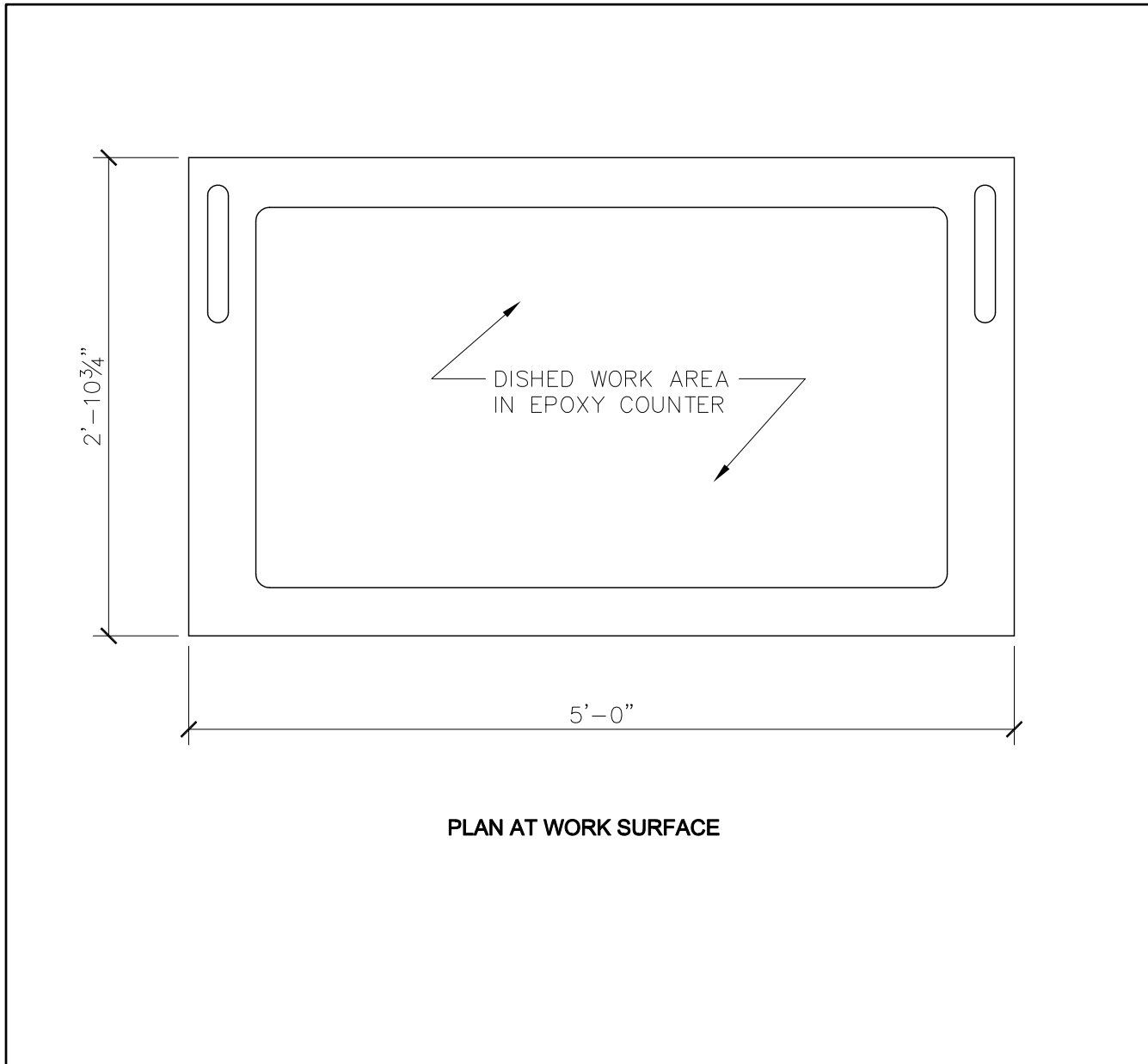
7 PLUGMOLD AT EXTERIOR WALL
SCALE: 3" = 1'-0"



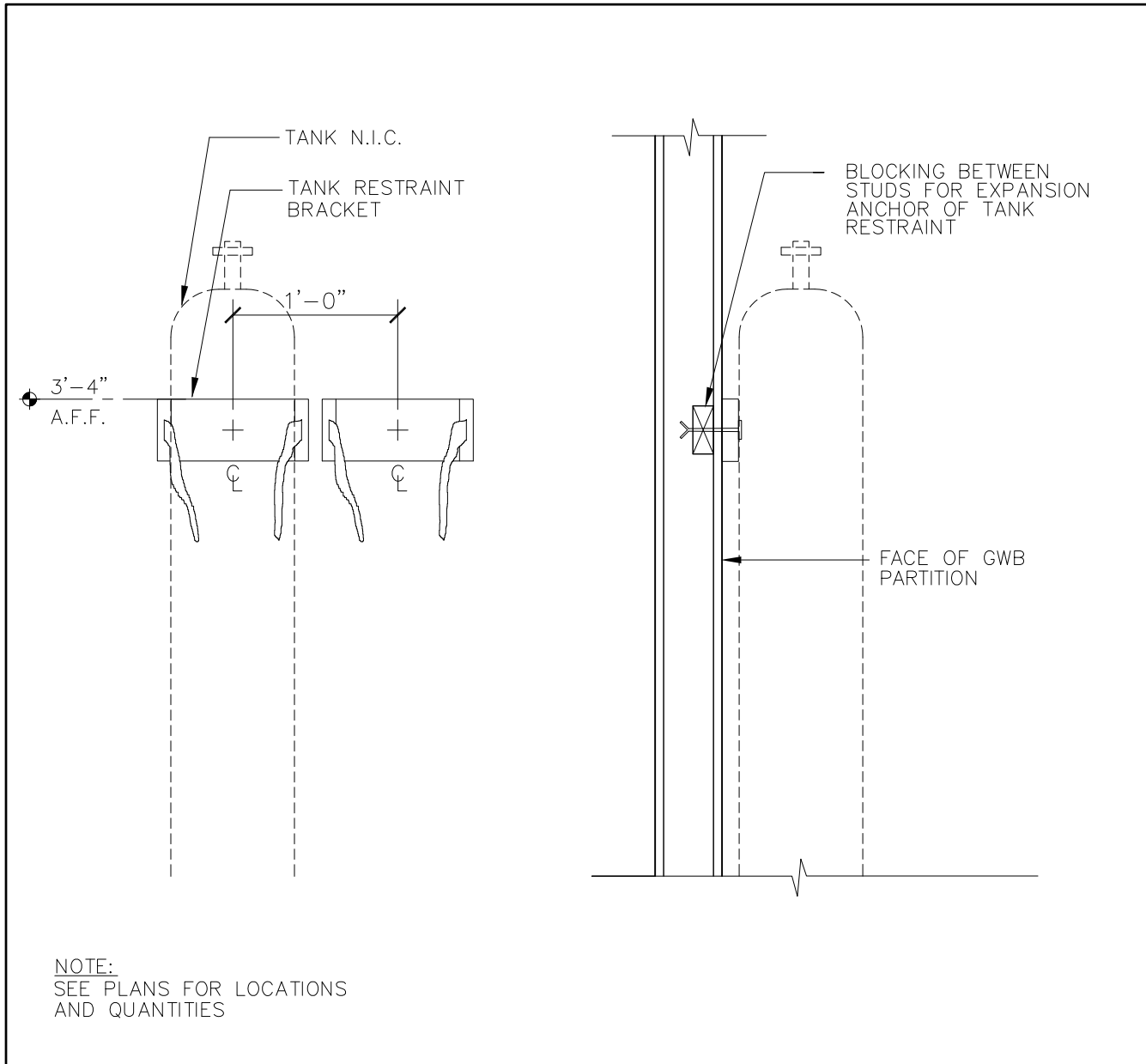
3 DETAIL ELEVATION: TANK RESTRAINT RETAINERS
SCALE: 1" = 1'-0"



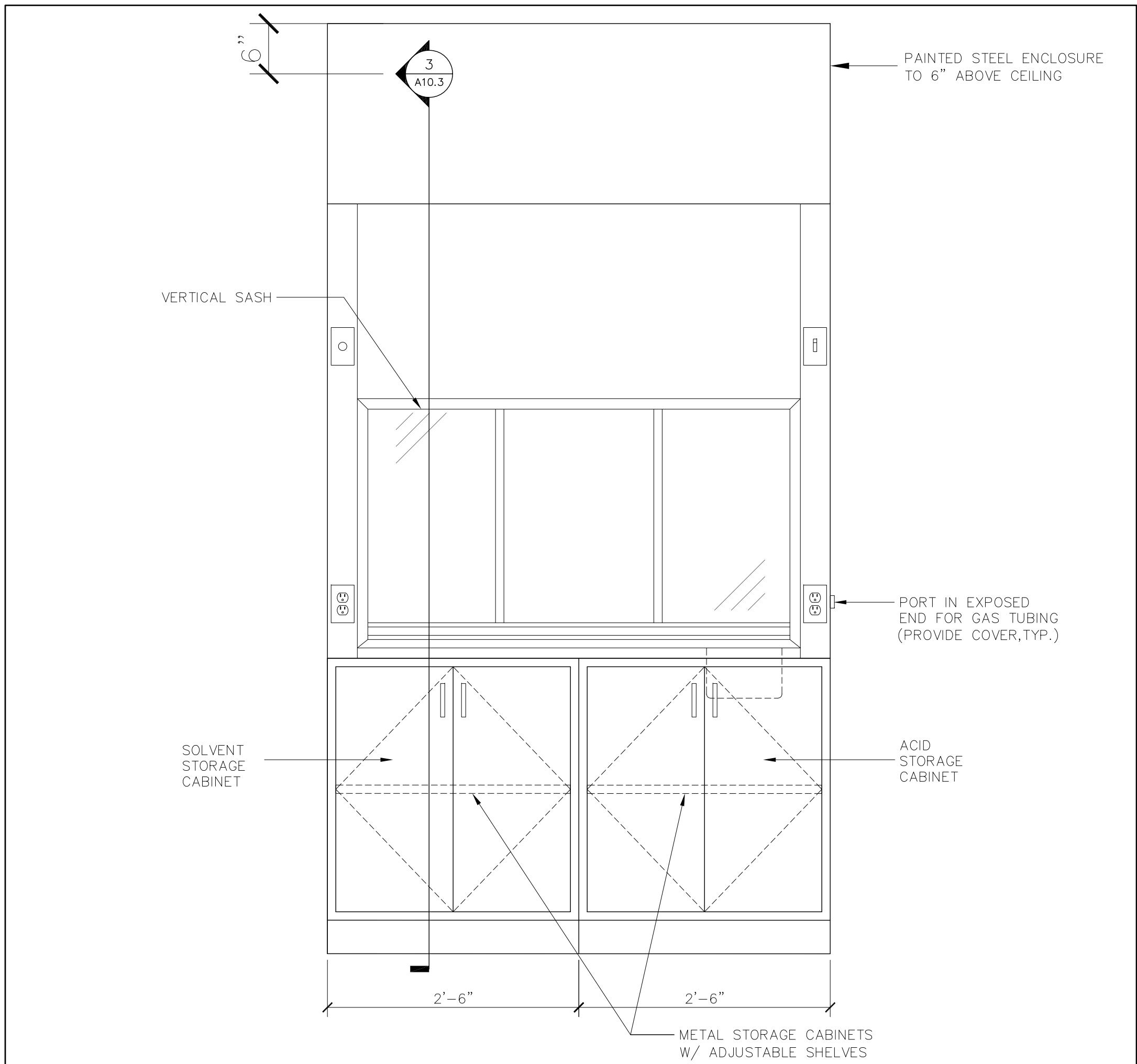
6 PLUGMOLD AT ISLAND BENCH
SCALE: 3" = 1'-0"



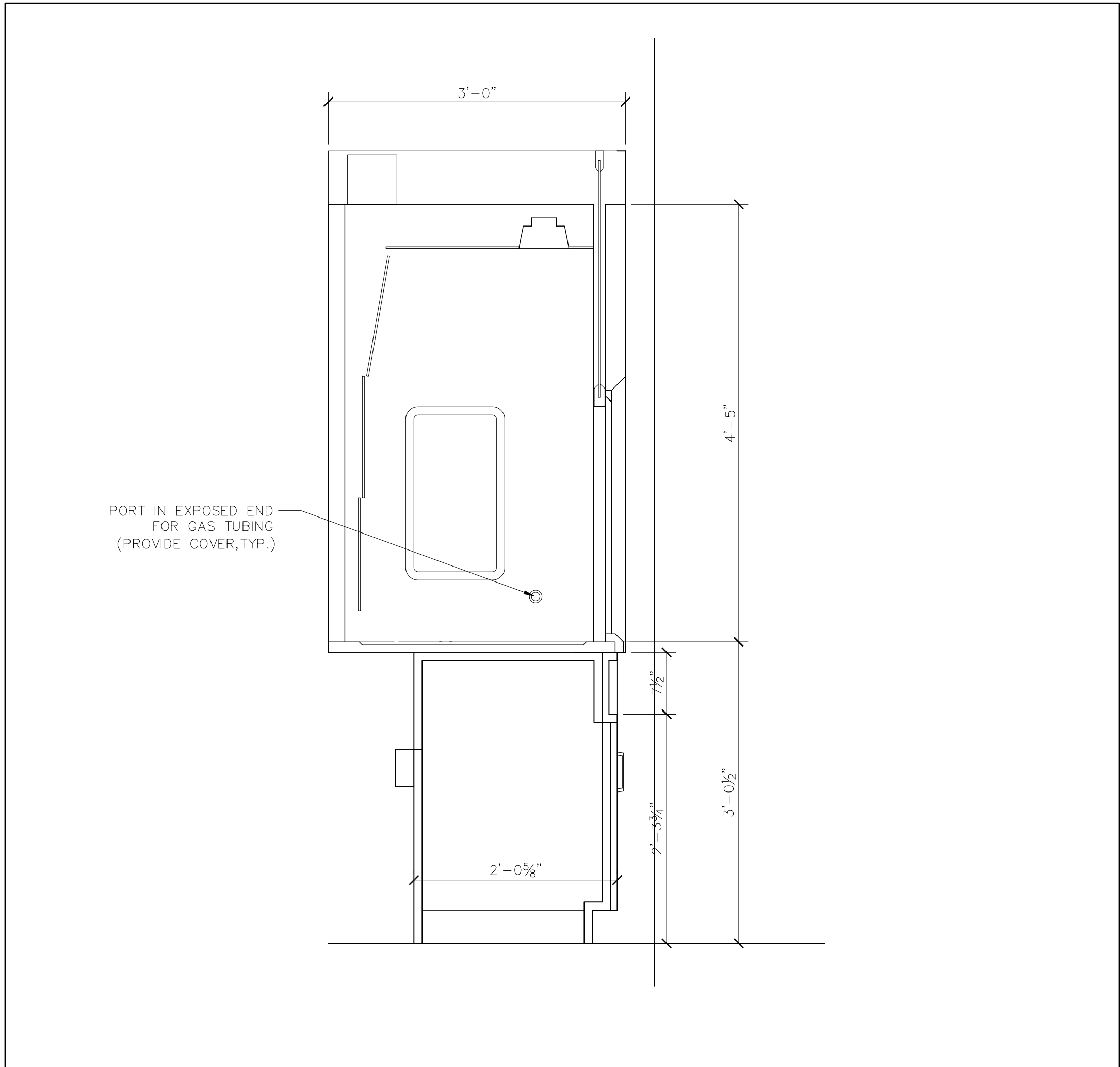
5 FH-5 FUME HOOD - PLAN
SCALE: 1" = 1'-0"



2 DETAIL EL / SEC: TANK RESTRAINT BRACKET
SCALE: 1" = 1'-0"



4 FH-5 FUME HOOD - ELEVATION
SCALE: 1" = 1'-0"



1 FH-5 FUME HOOD - SECTION
SCALE: 1" = 1'-0"

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Notes:



Job Number 31003
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Filename 31003-A10.6
Date 15 APRIL 2011

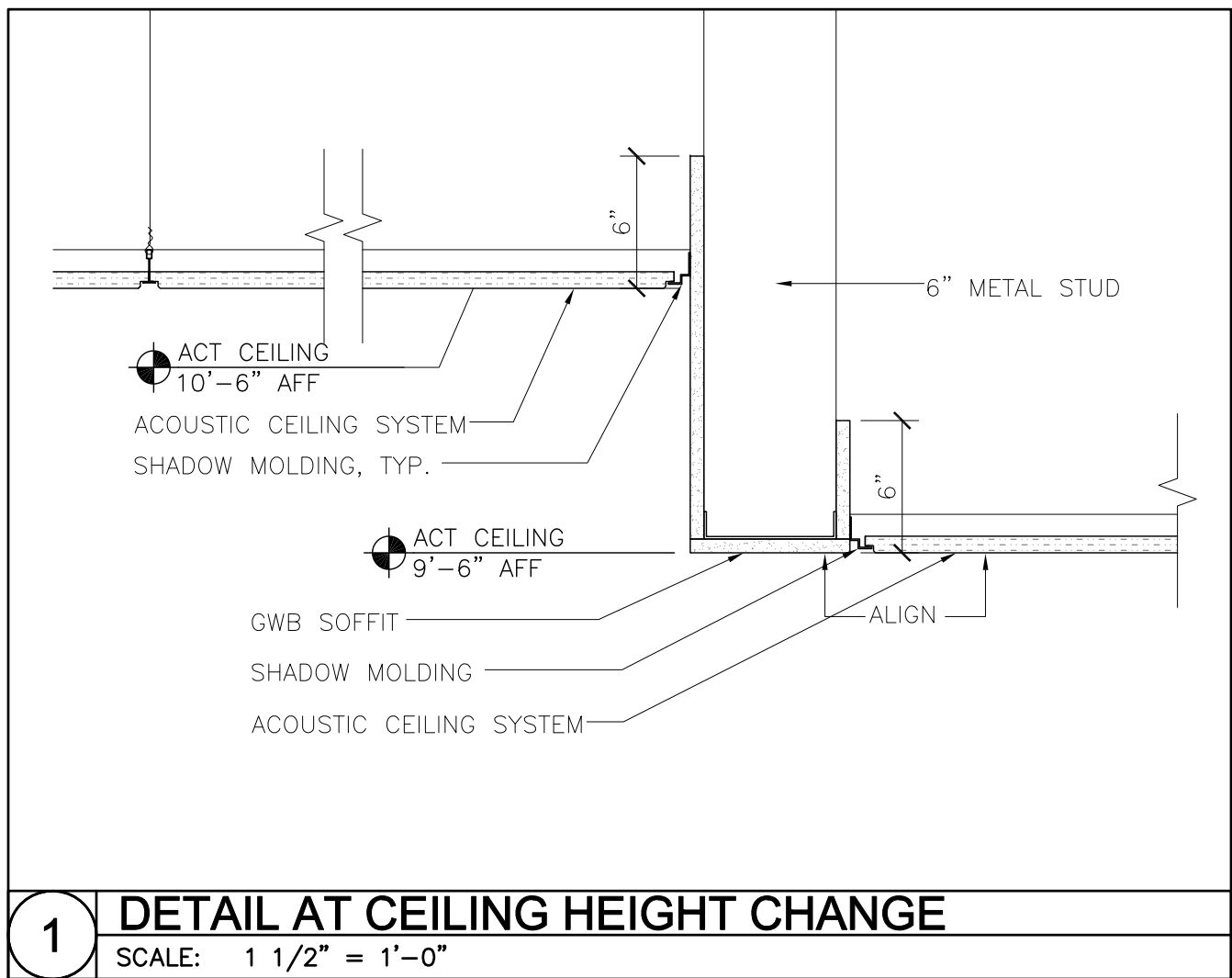
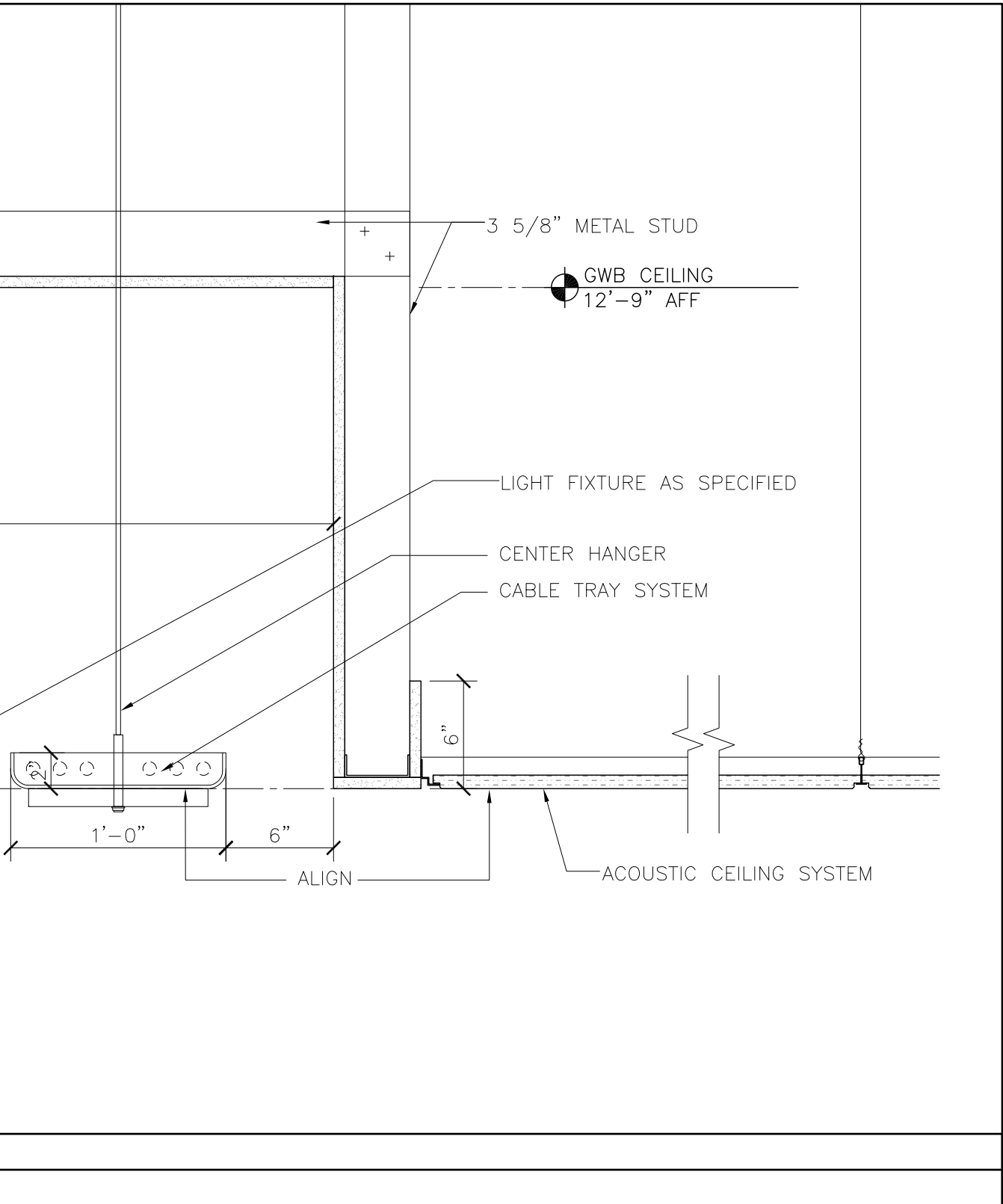
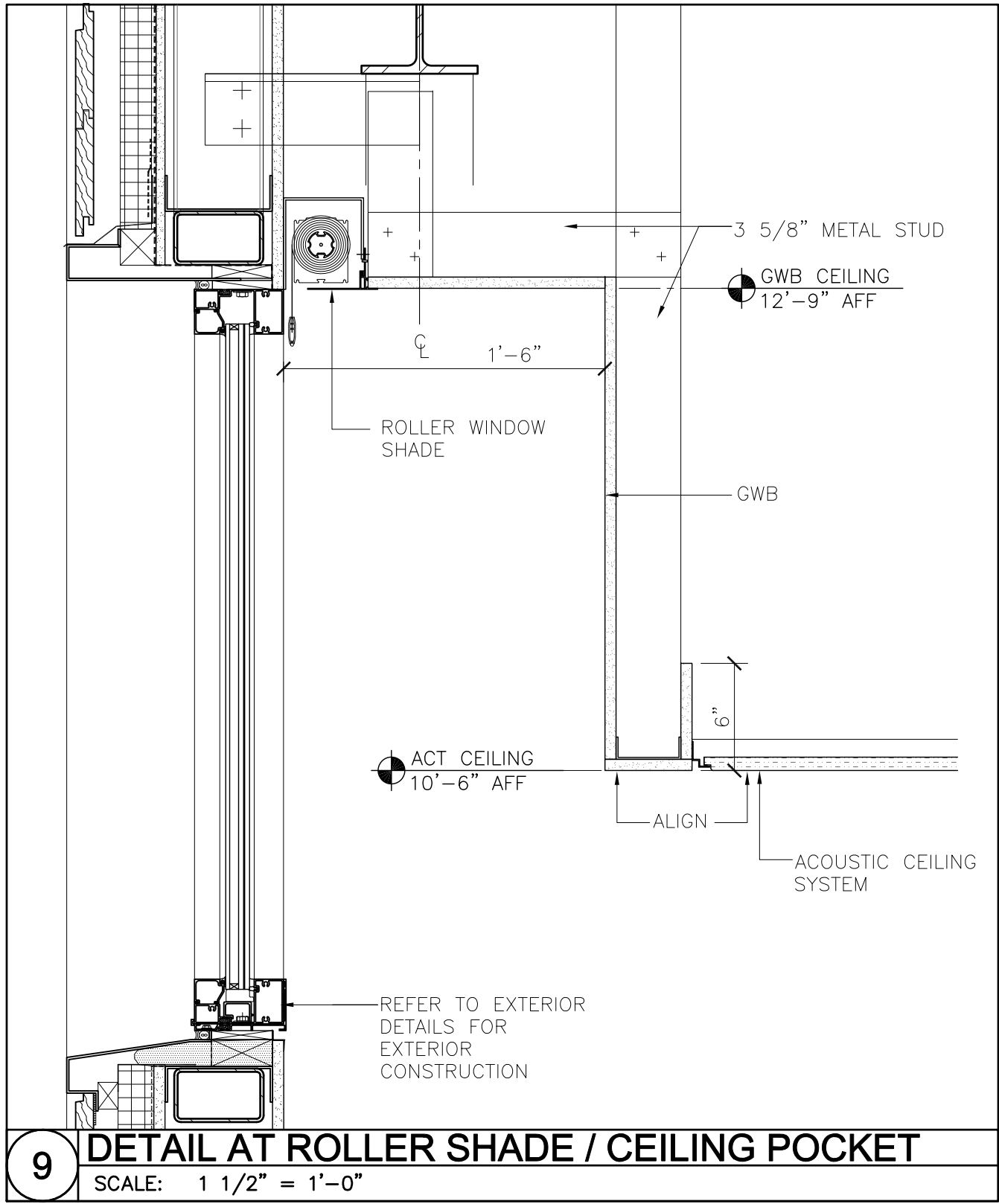
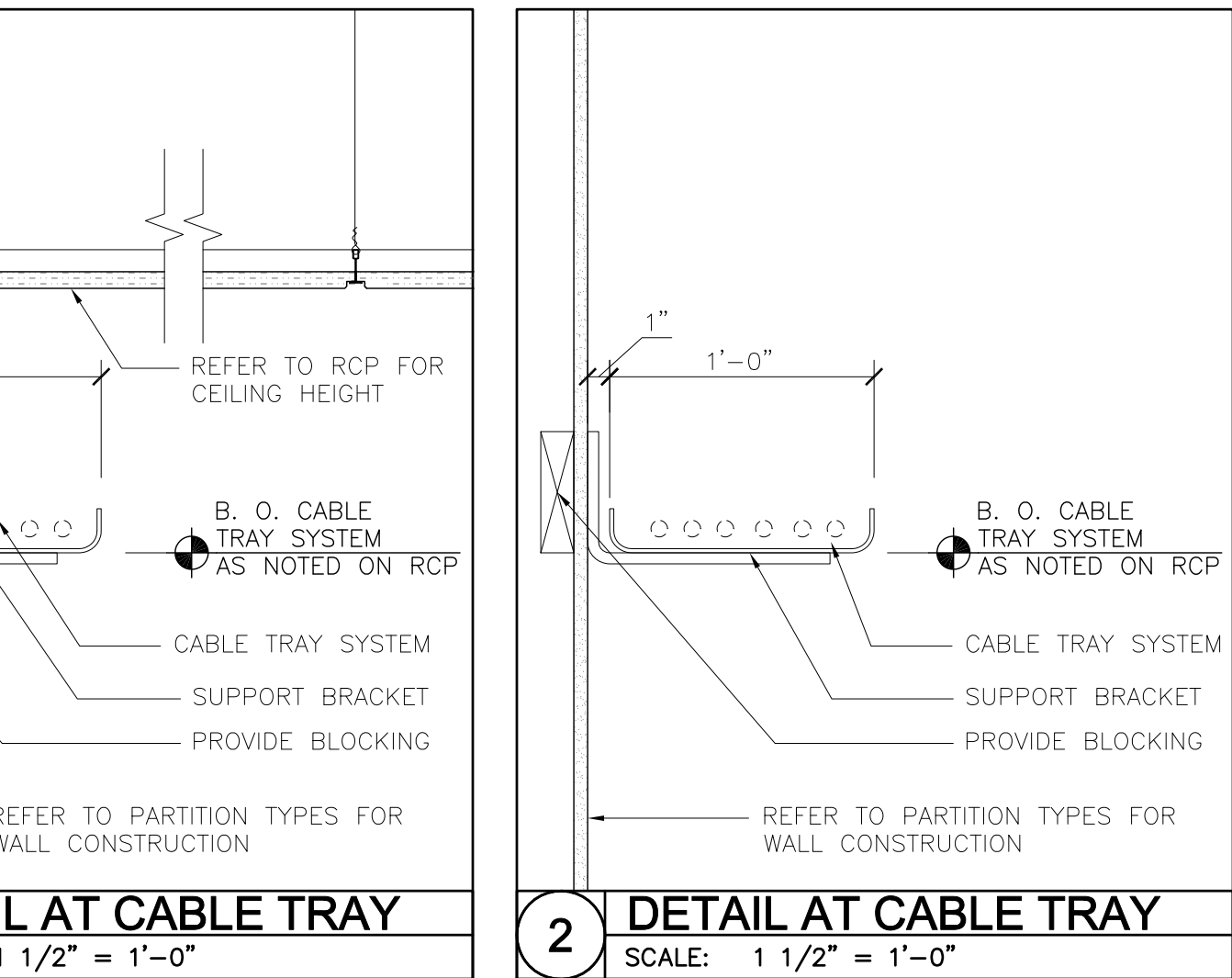
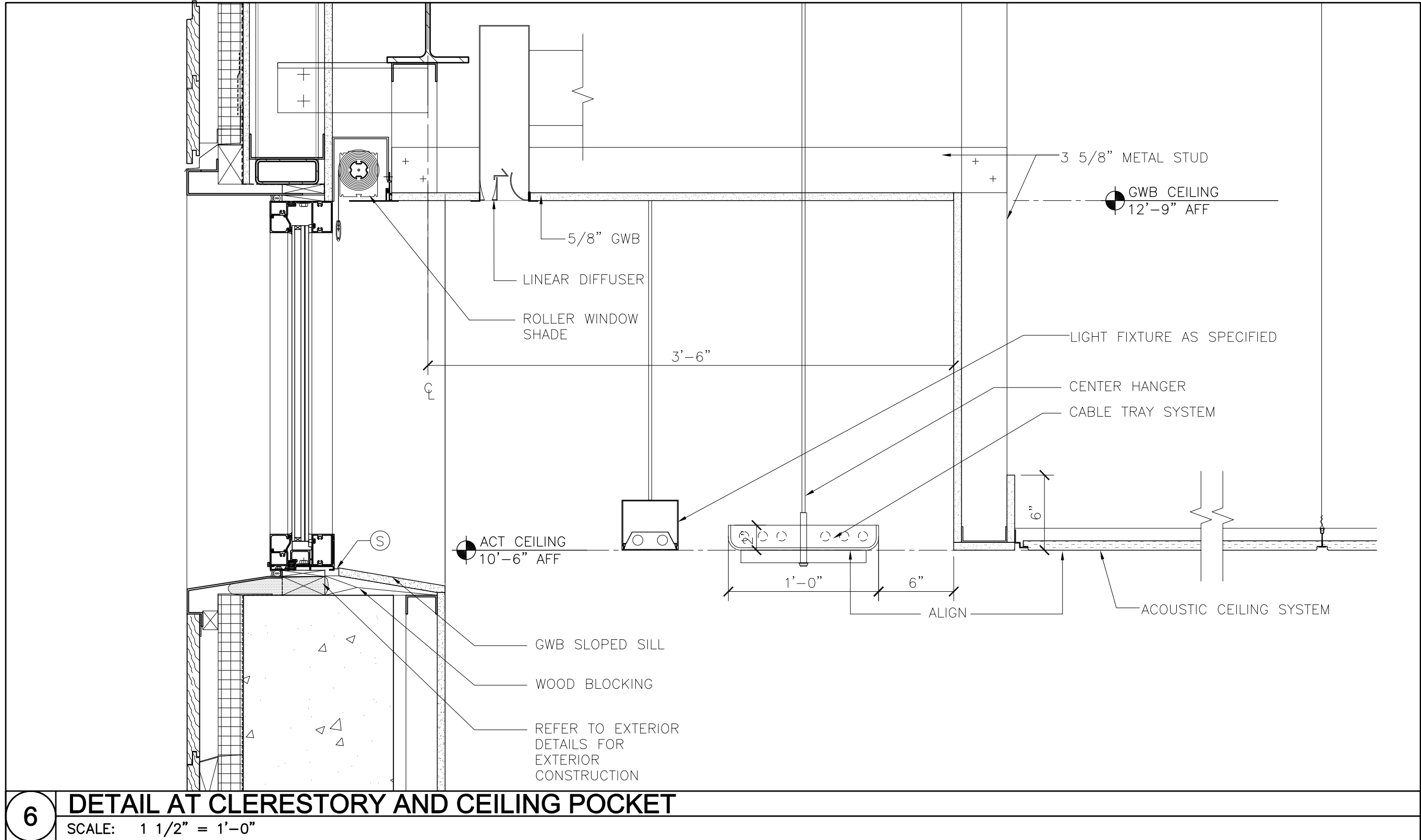
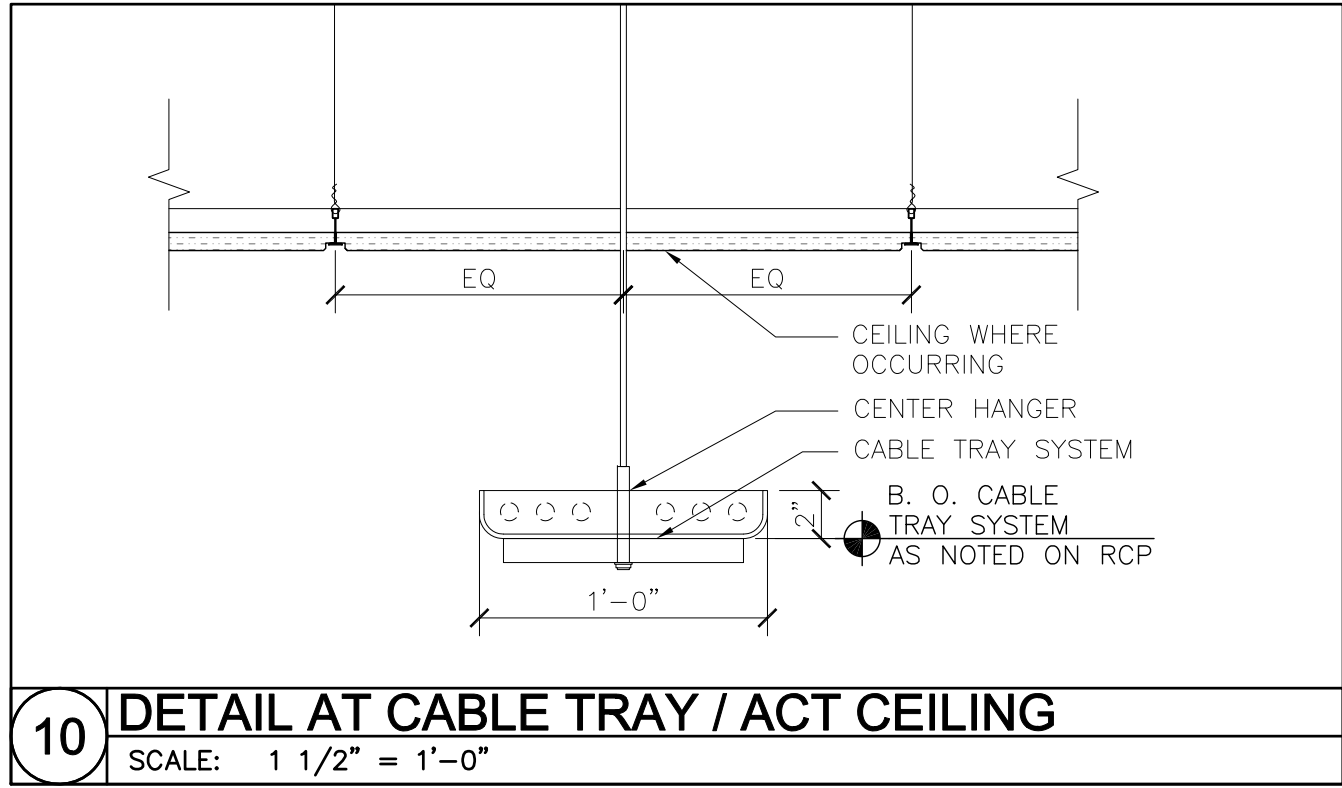
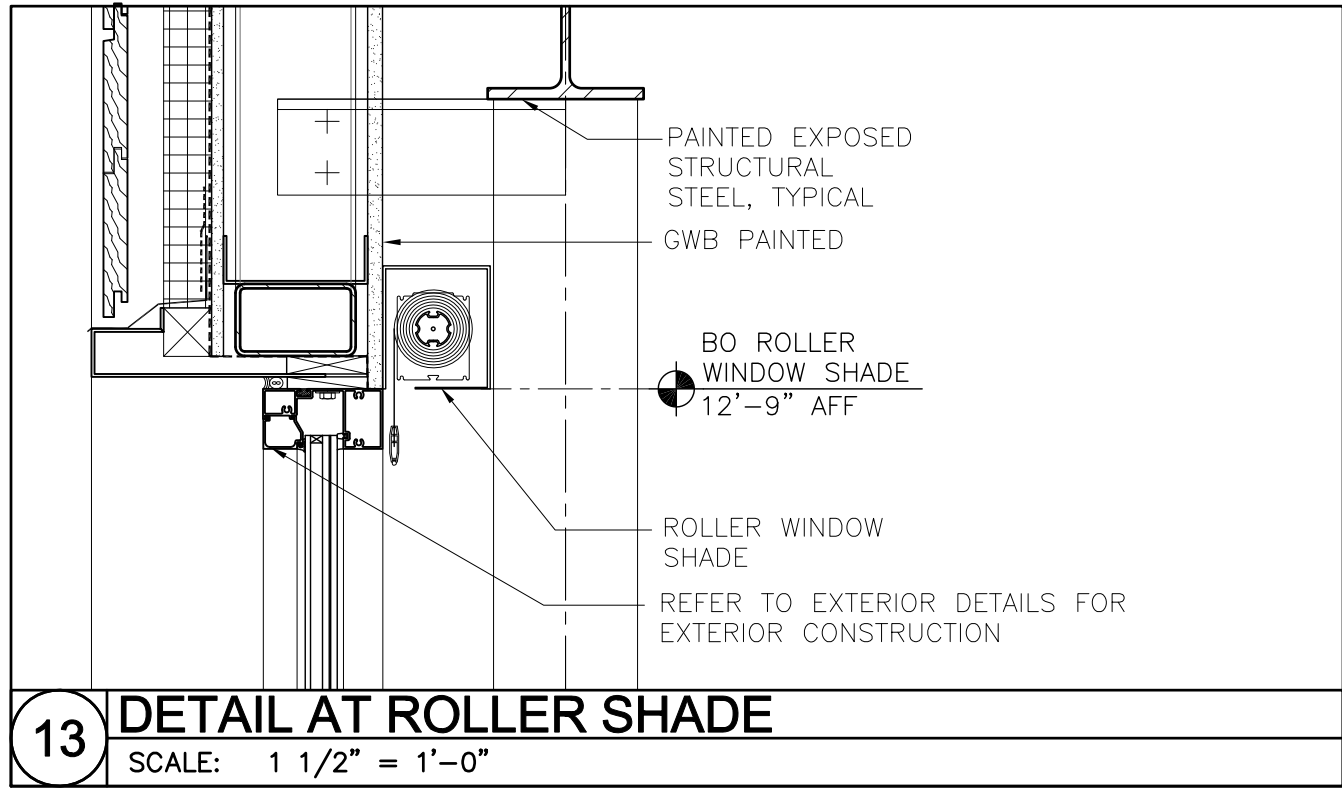
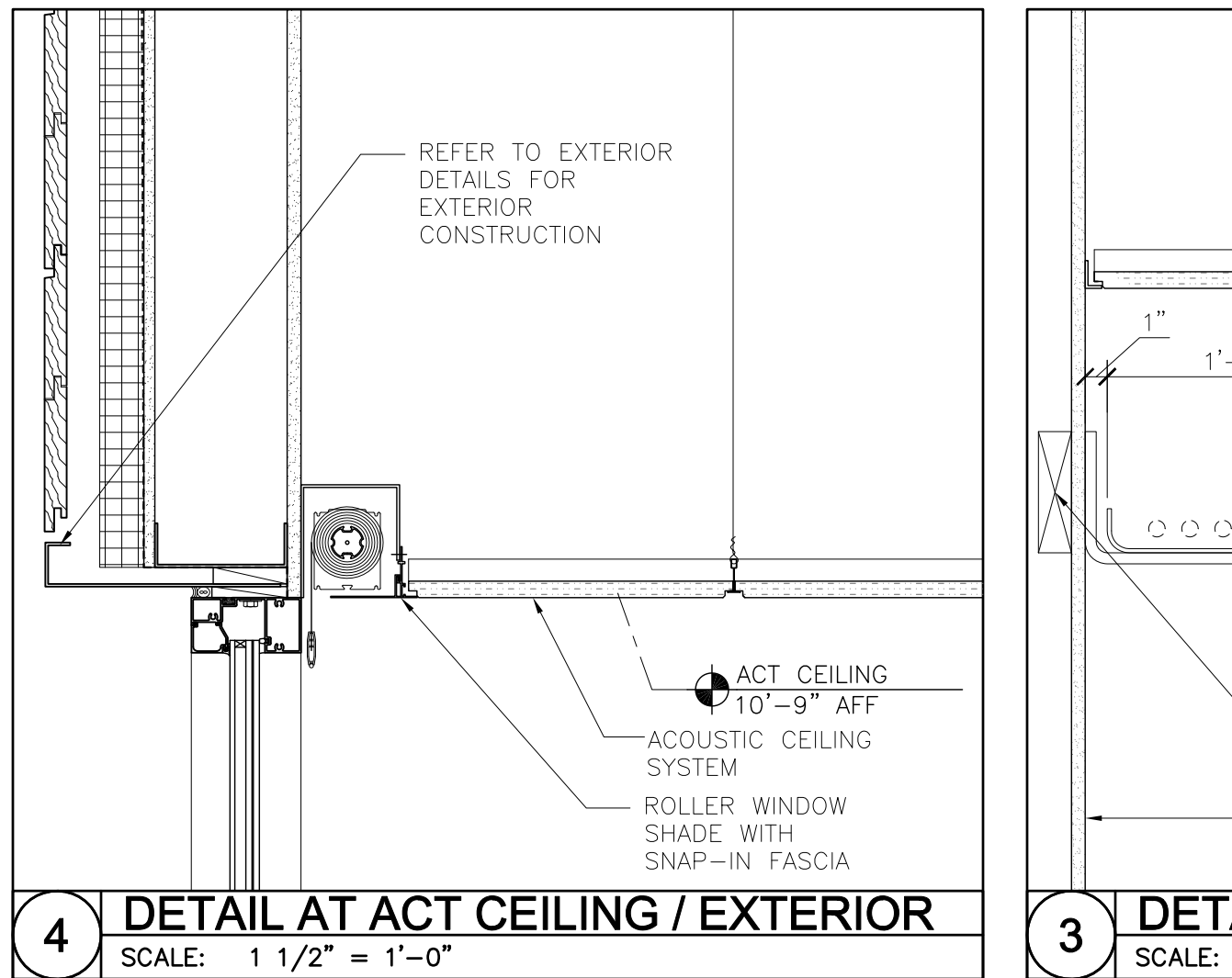
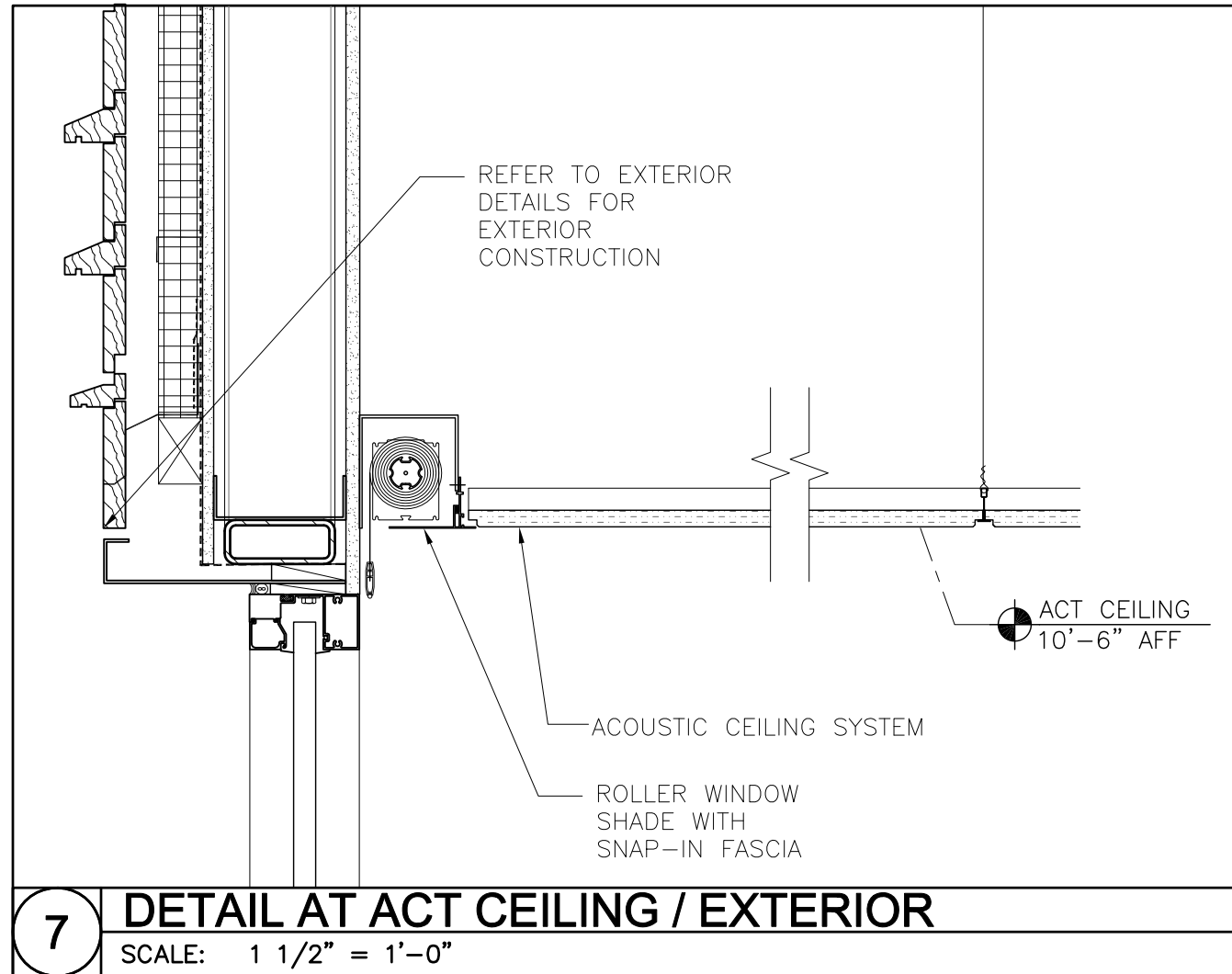
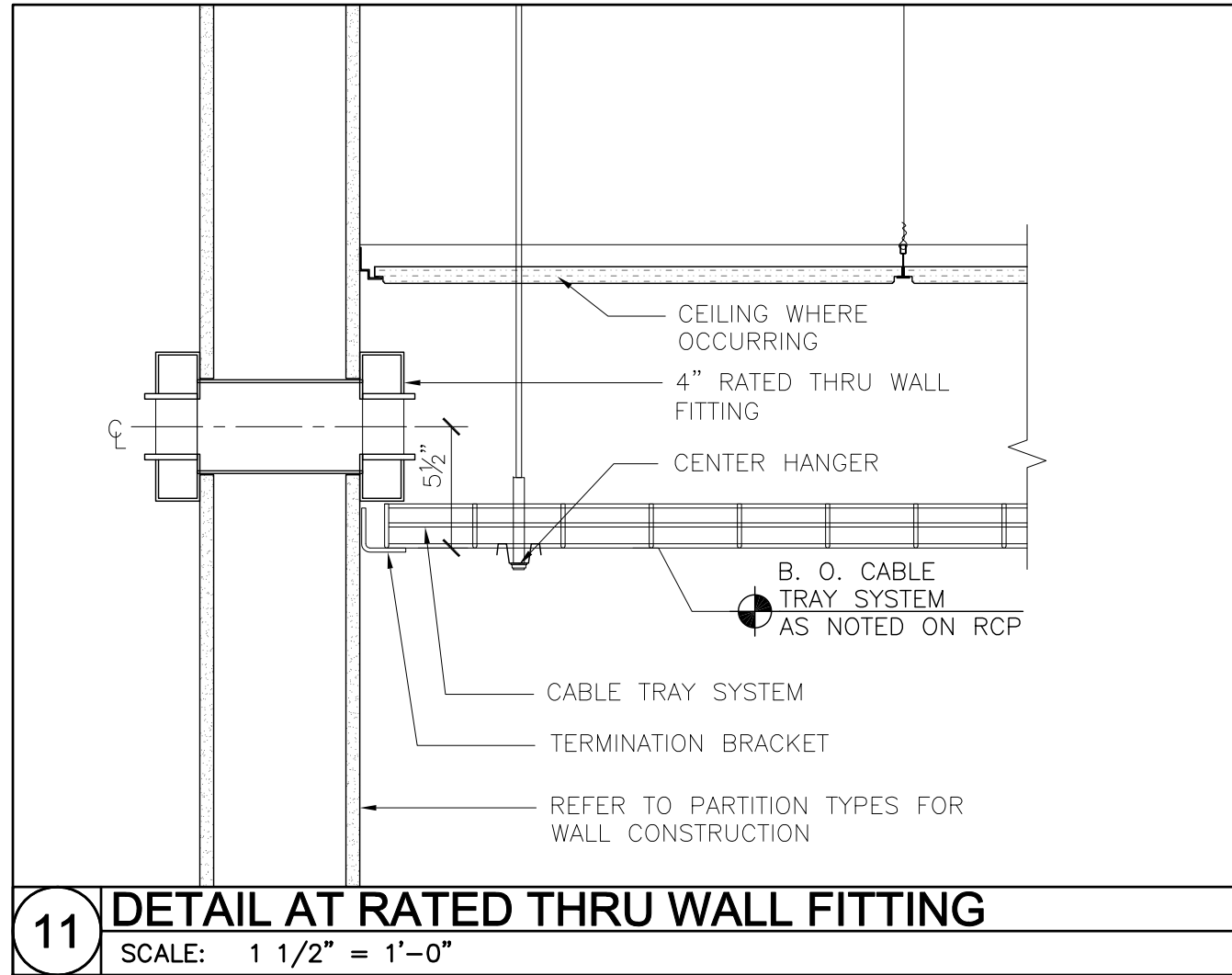
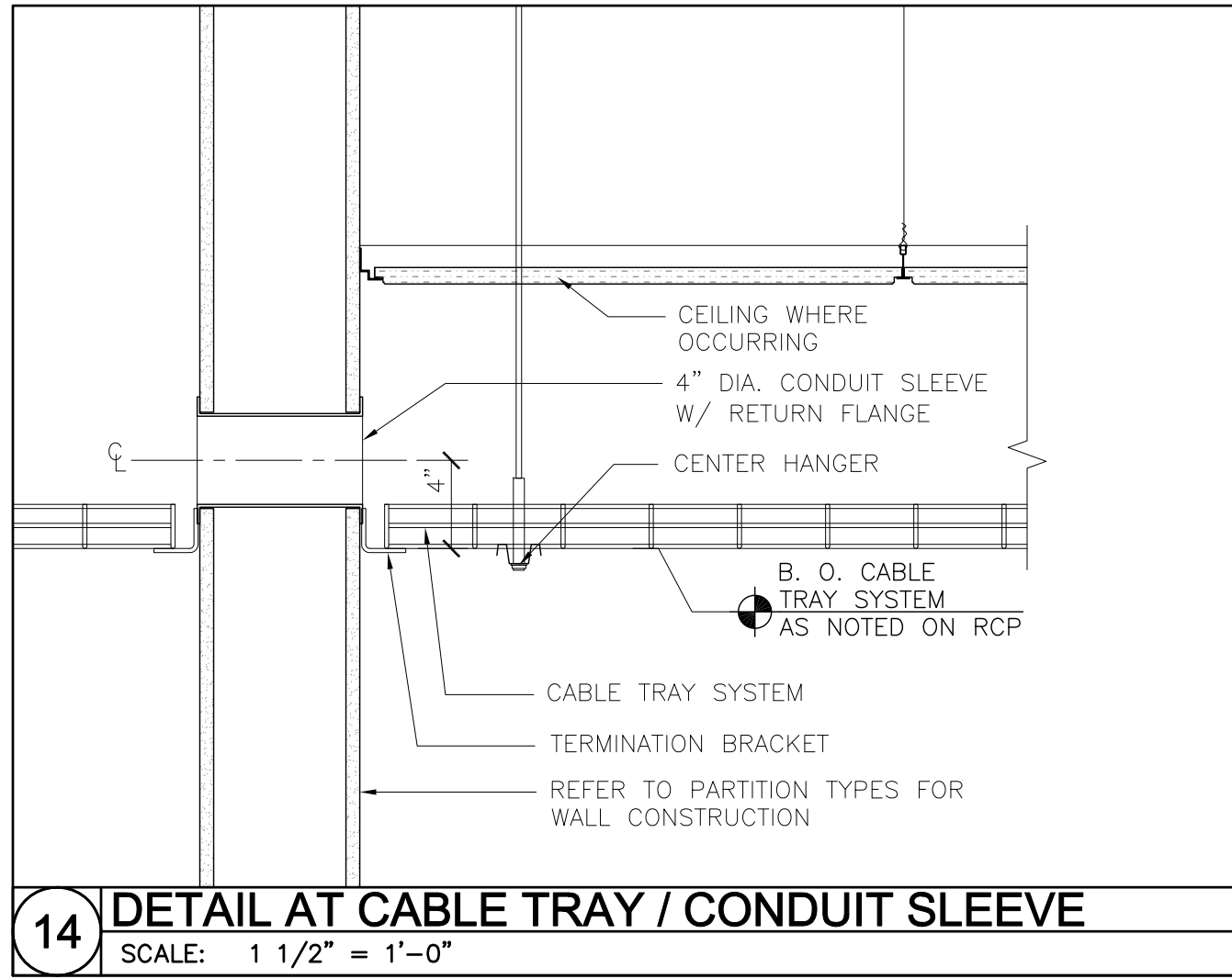
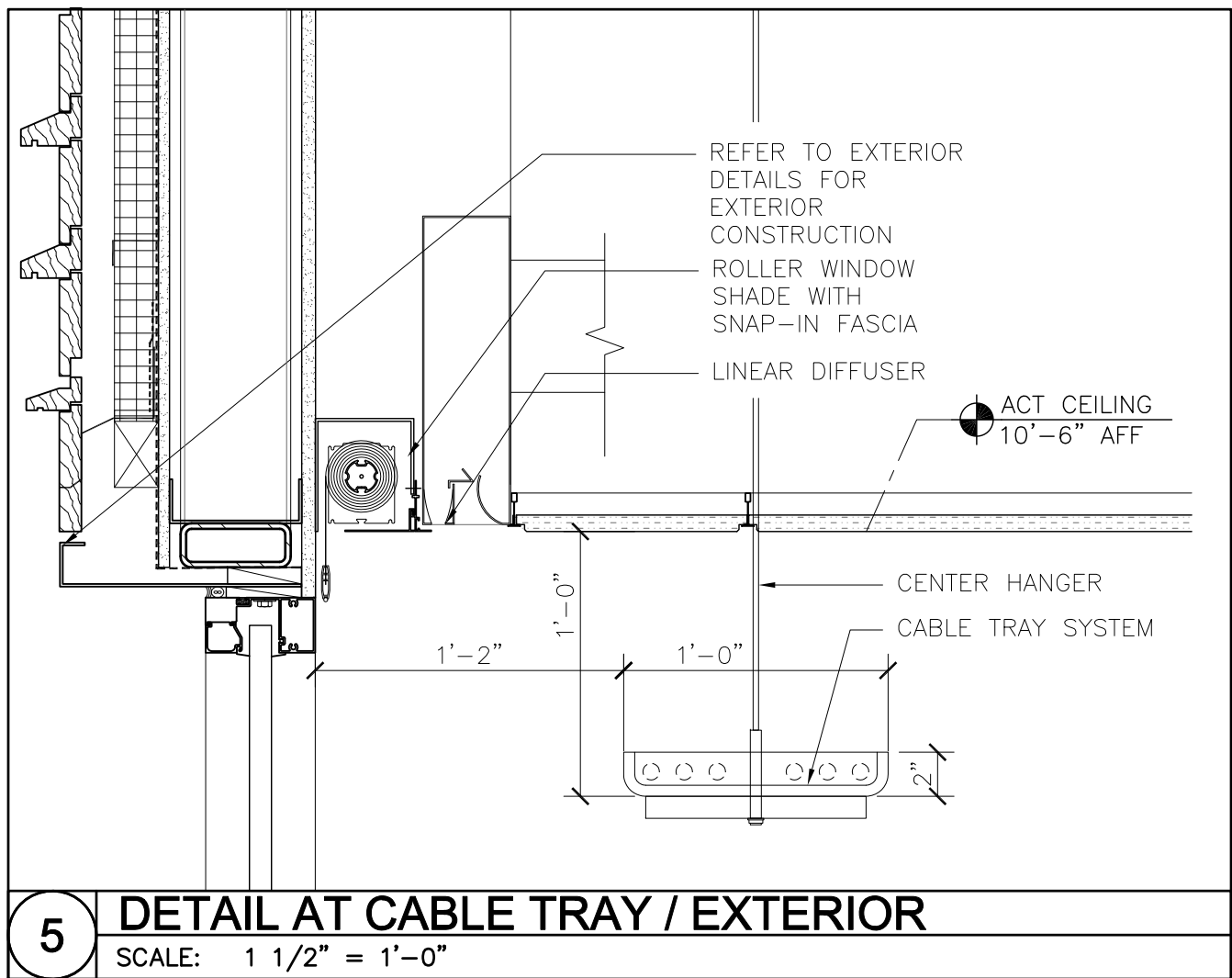
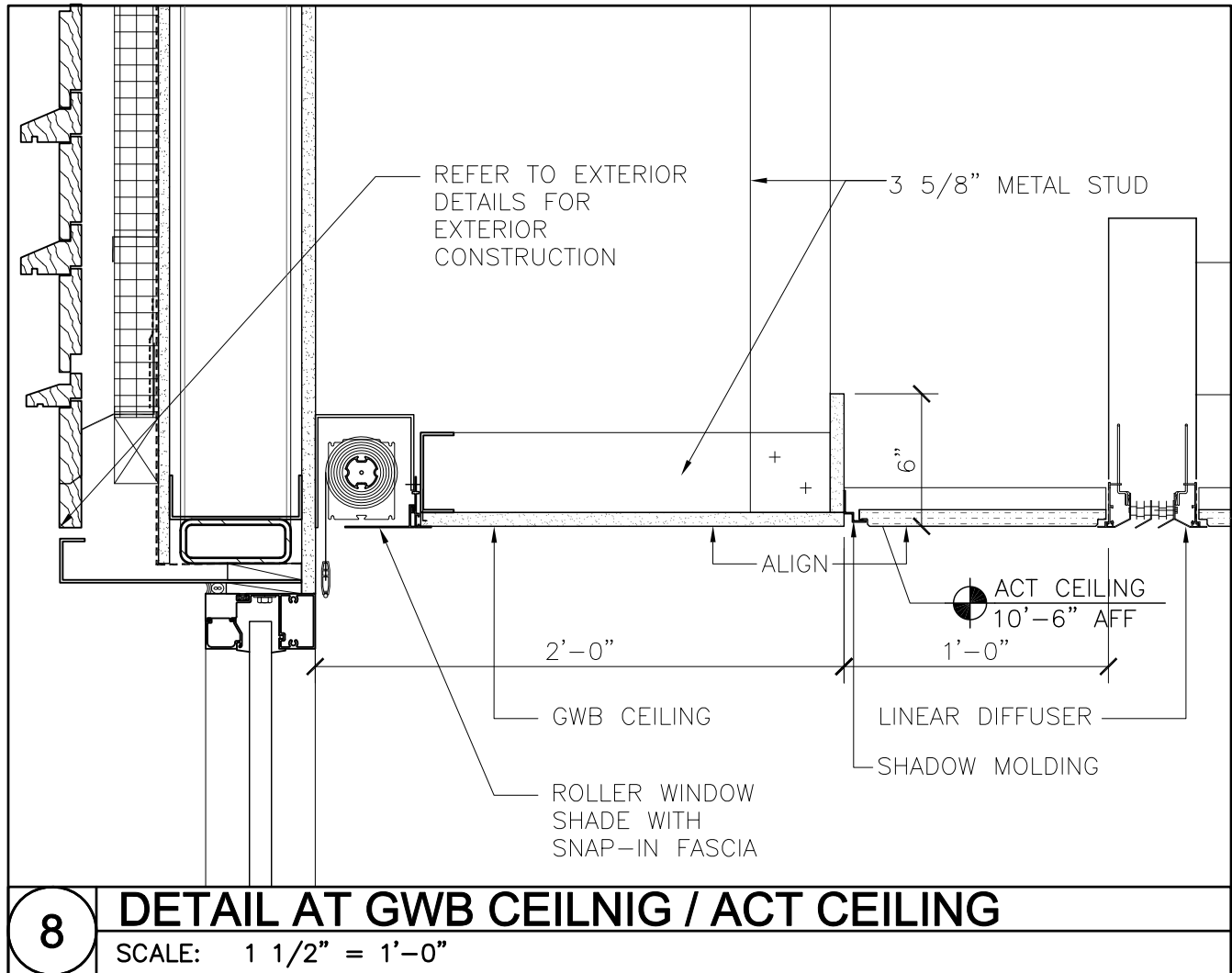
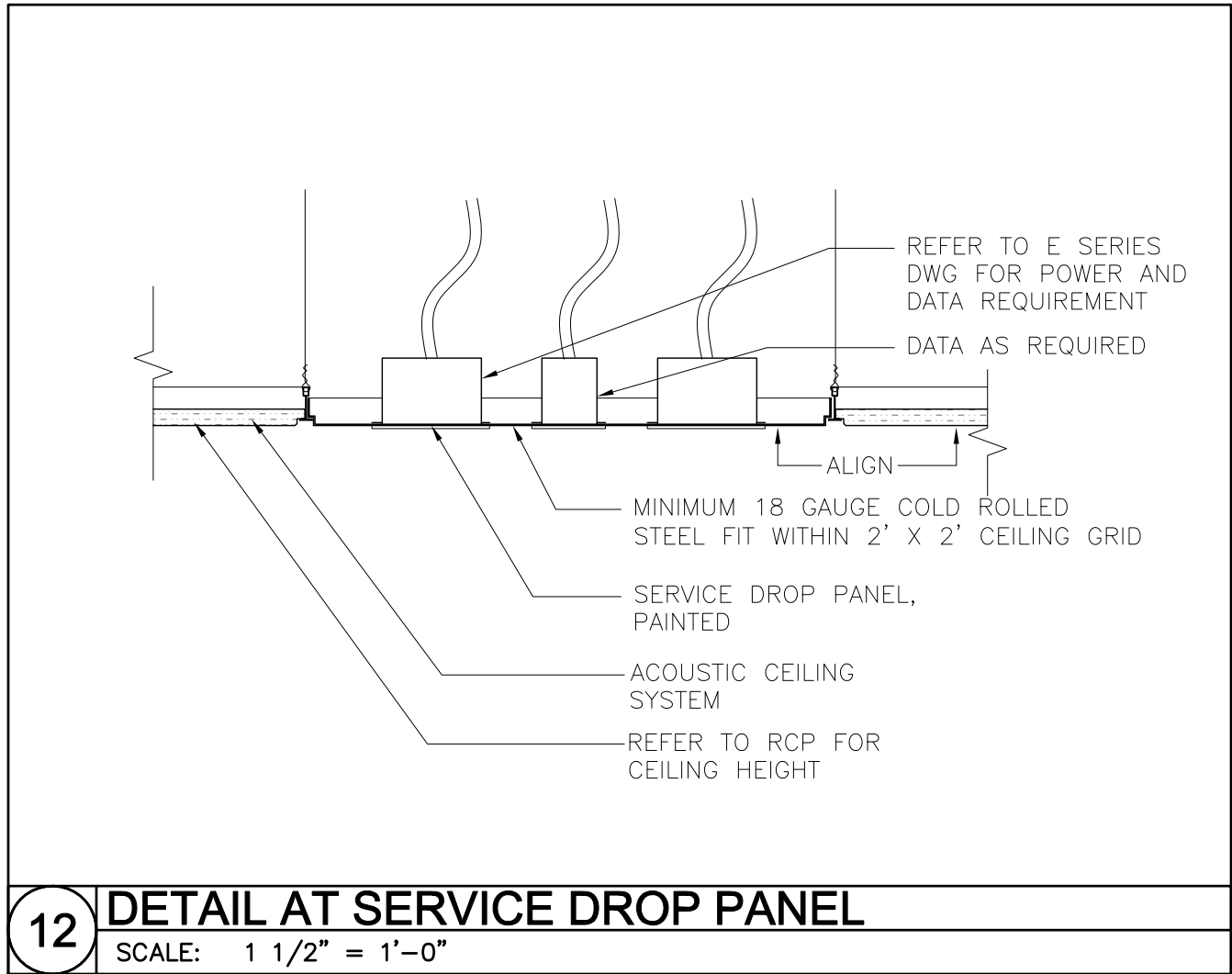
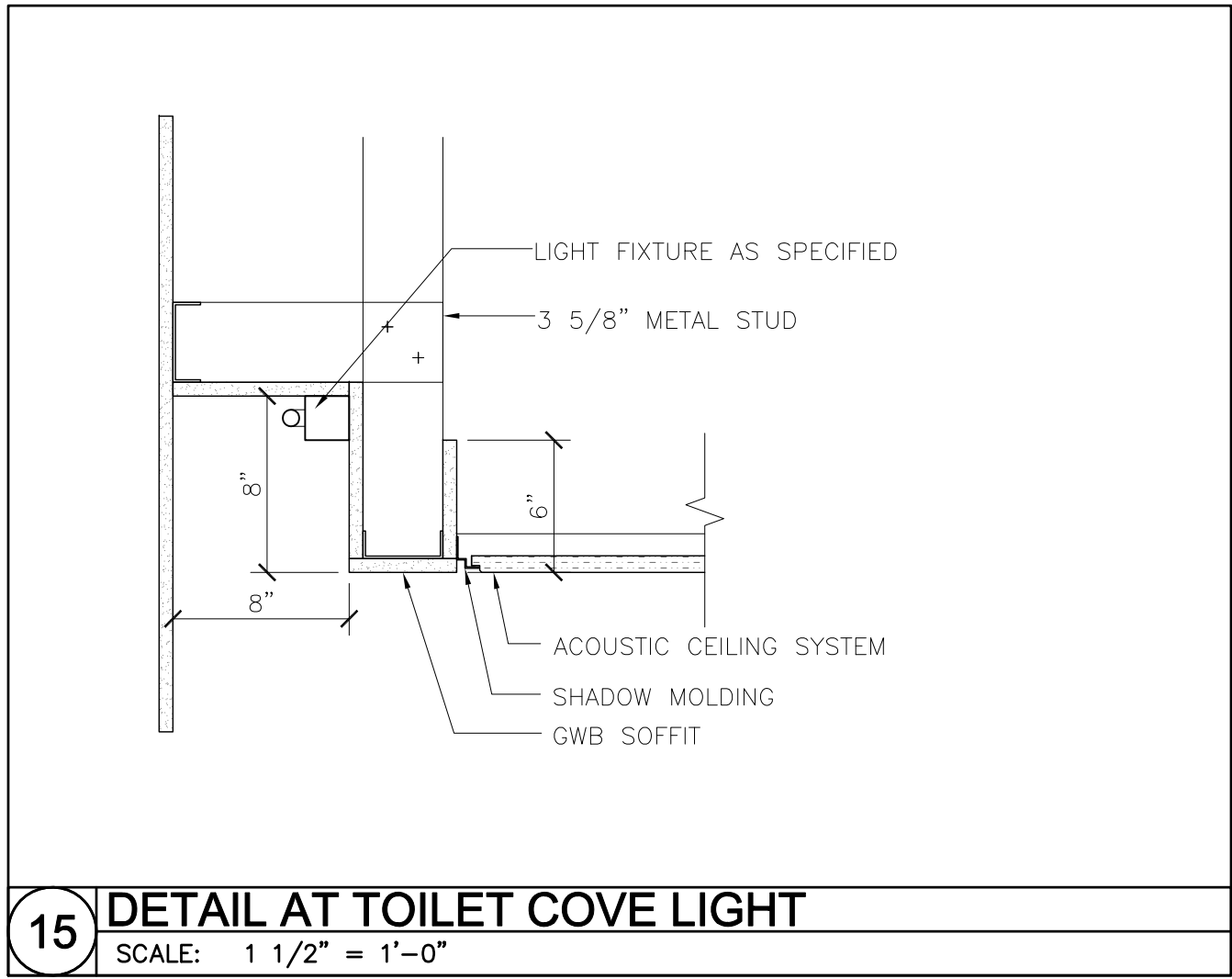
Revisions

LABORATORY DETAILS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A10.6

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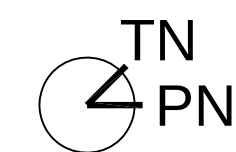
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Keyplan

Job Number 31003
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Filename 31003-A11.1
Date 15 APRIL 2011

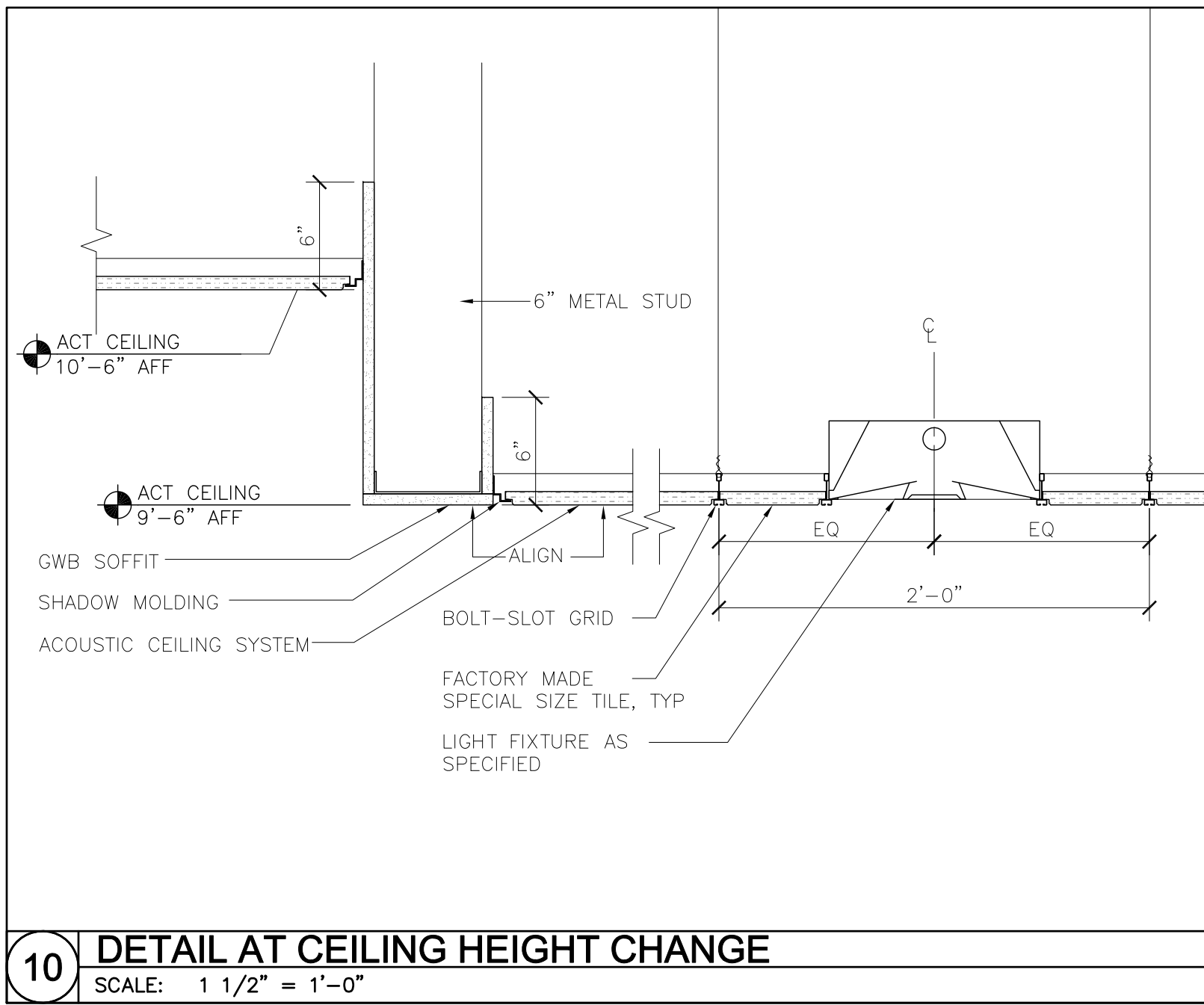
Revisions

CEILING DETAILS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

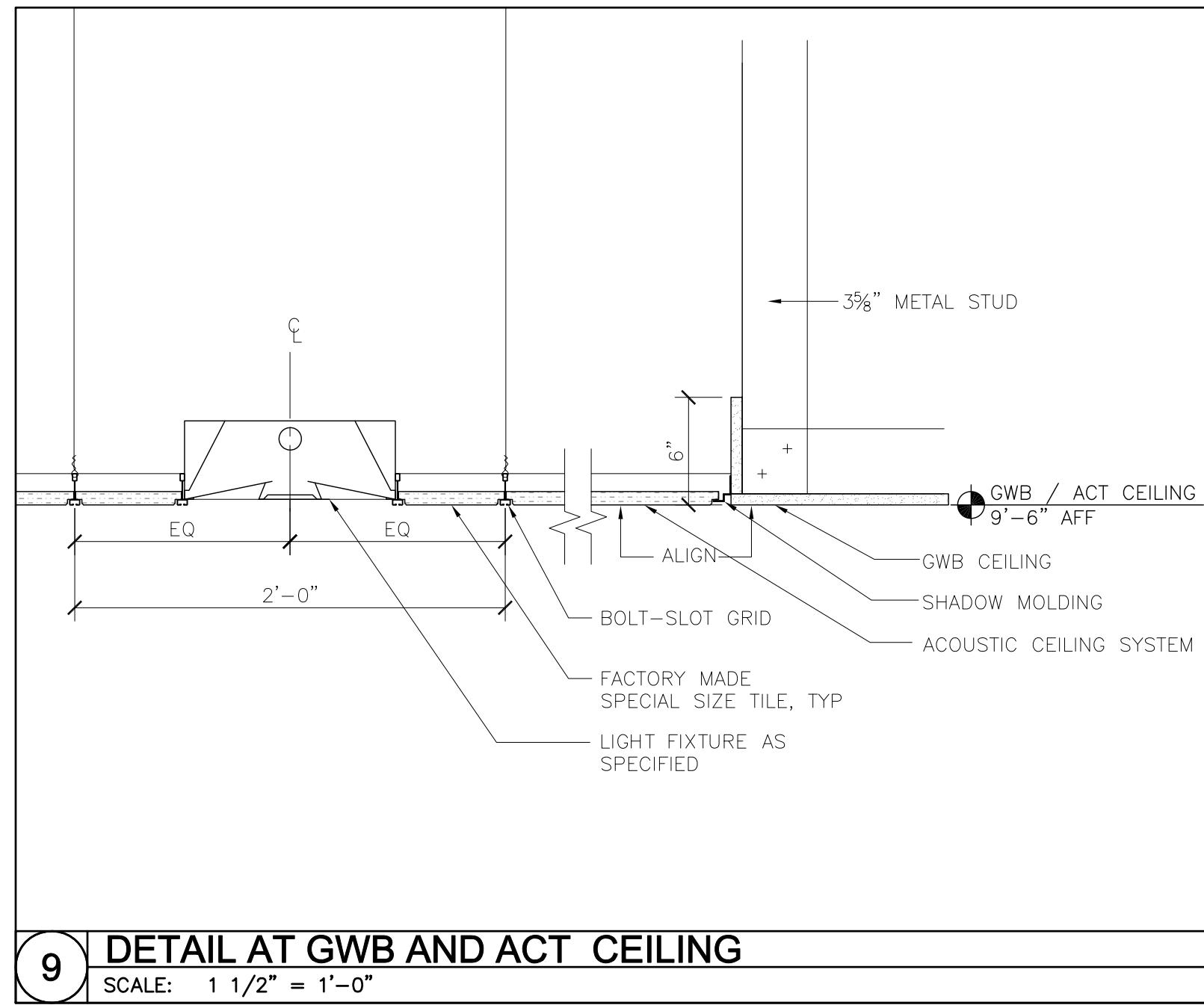
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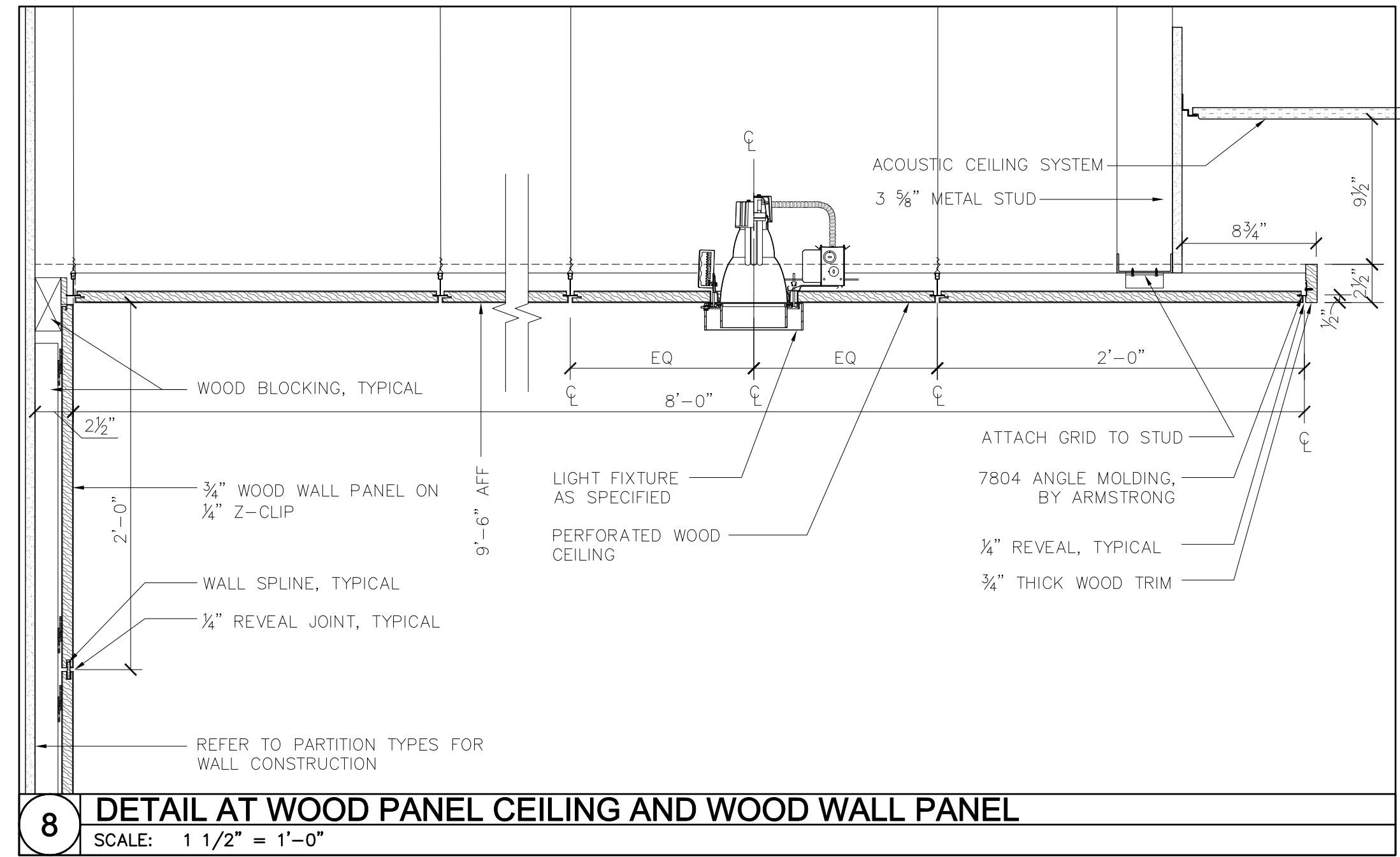
10 DETAIL AT CEILING HEIGHT CHANGE

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



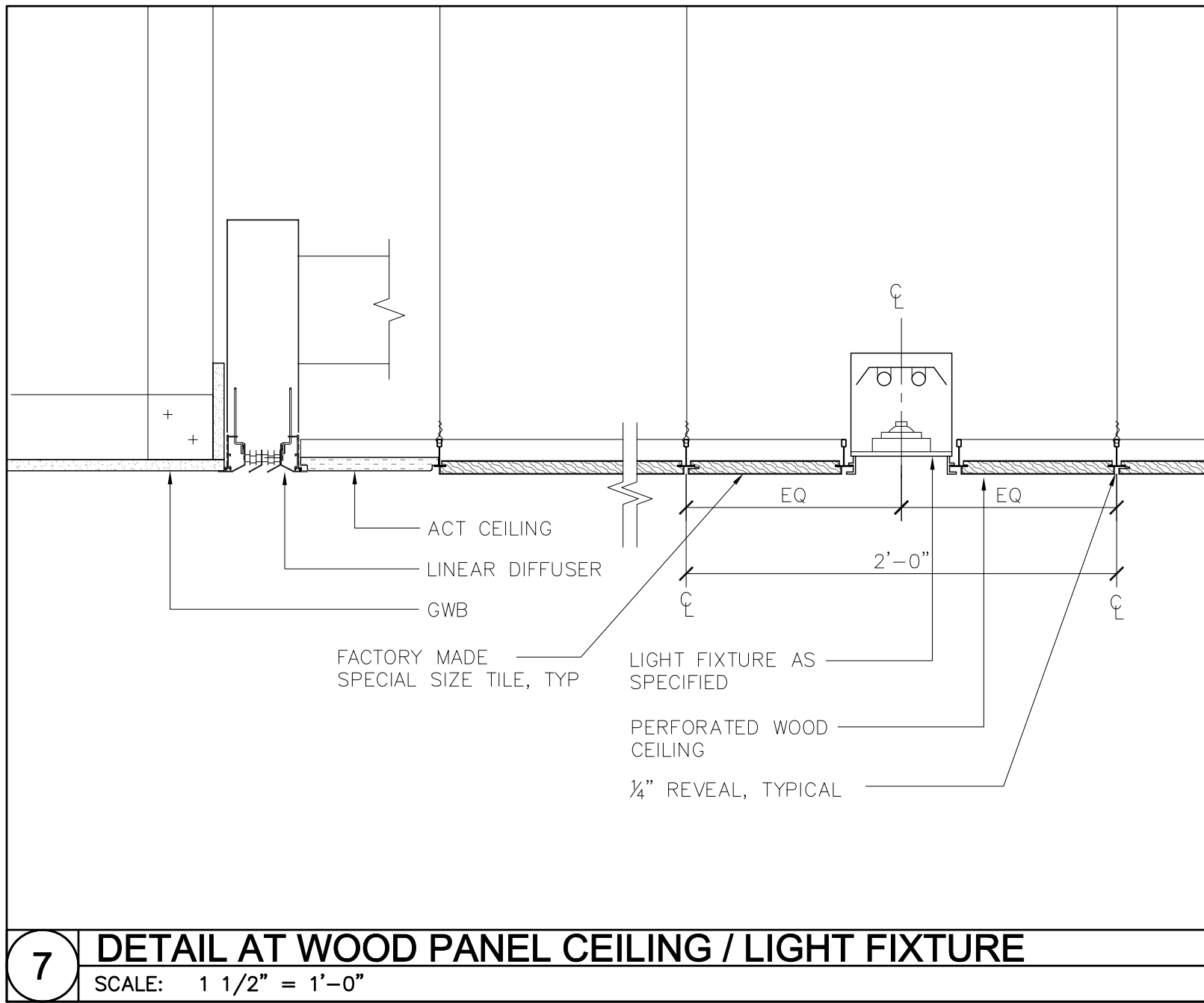
9 DETAIL AT GWB AND ACT CEILING

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



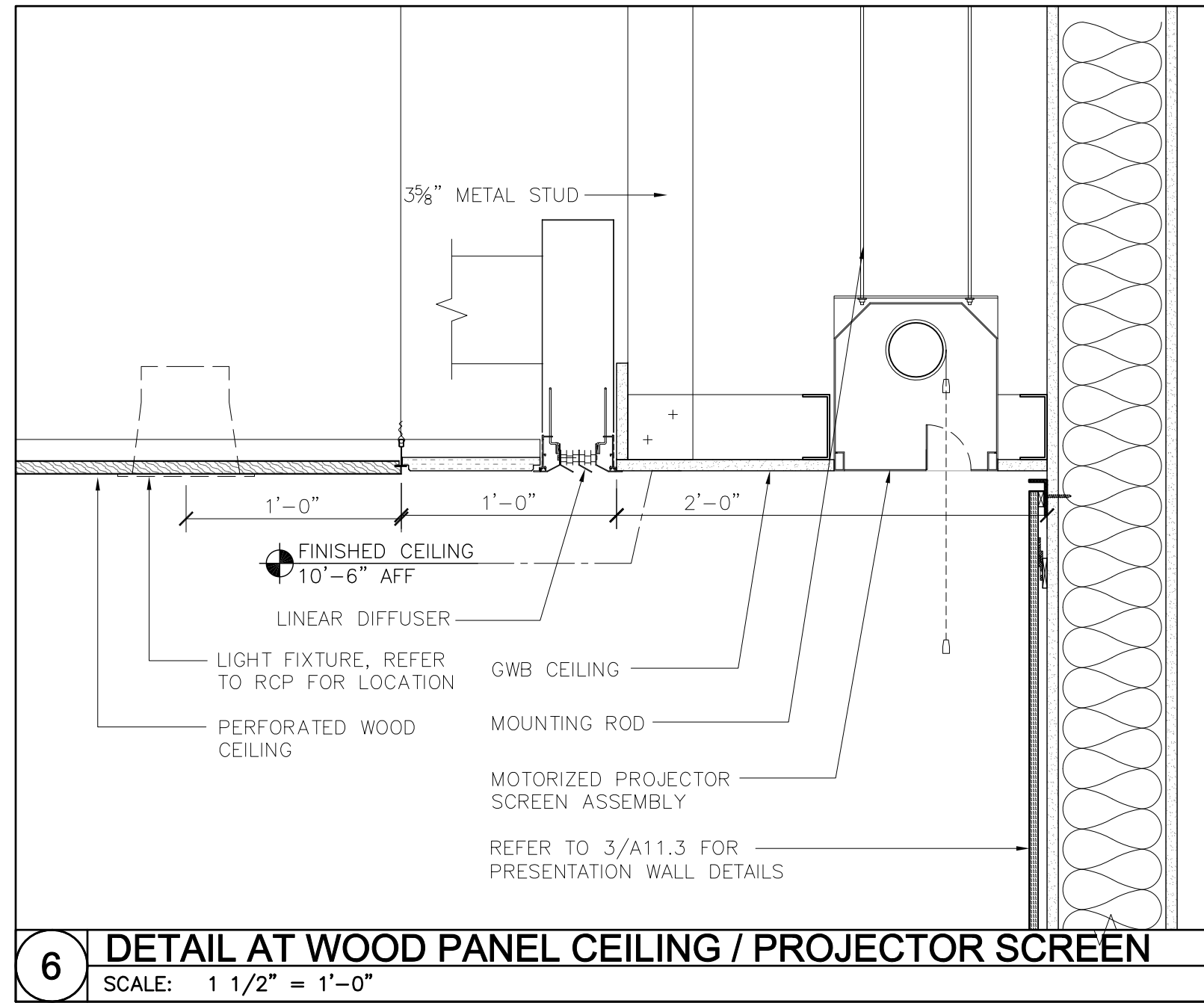
8 DETAIL AT WOOD PANEL CEILING AND WOOD WALL PANEL

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



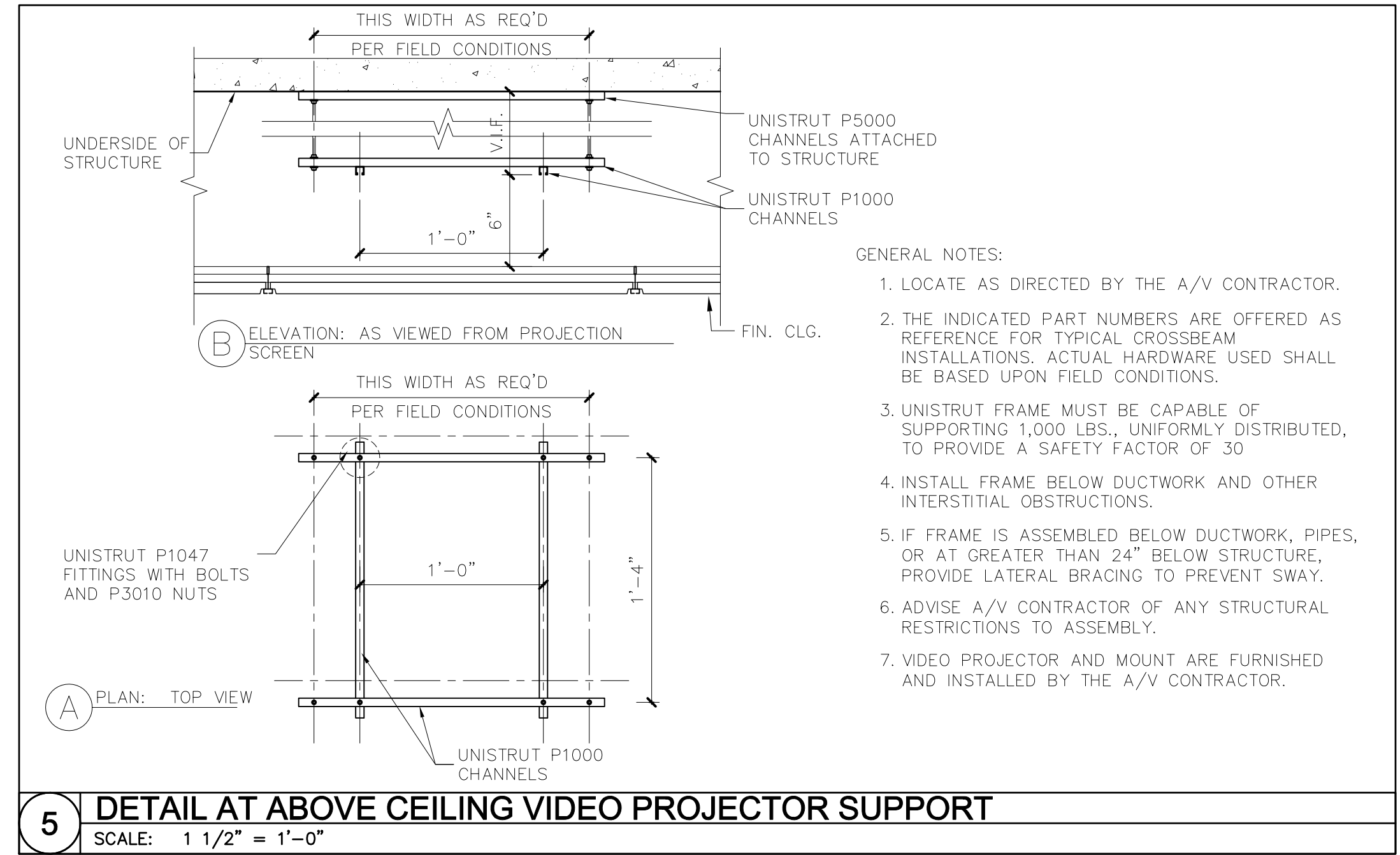
7 DETAIL AT WOOD PANEL CEILING / LIGHT FIXTURE

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



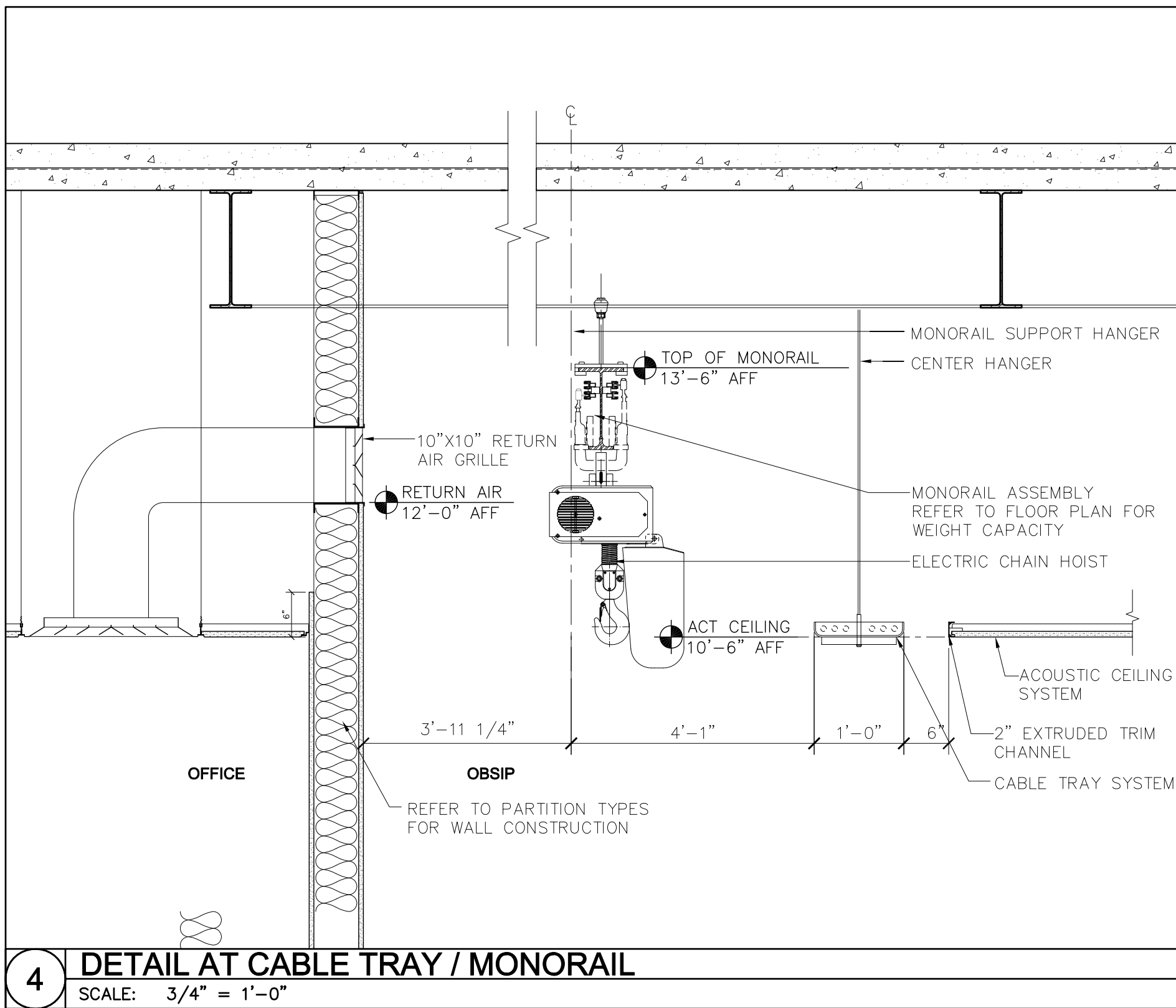
6 DETAIL AT WOOD PANEL CEILING / PROJECTOR SCREEN

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



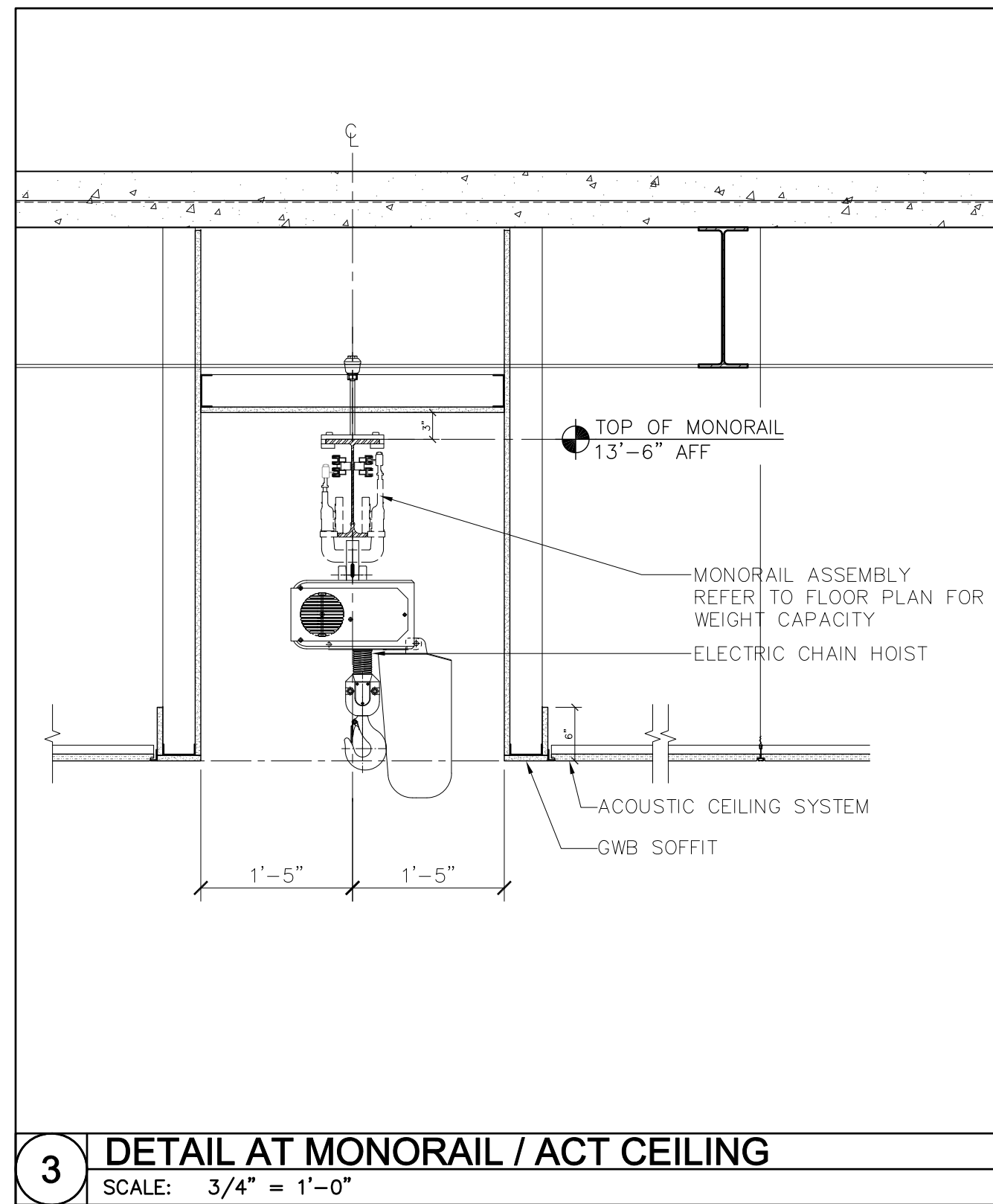
5 DETAIL AT ABOVE CEILING VIDEO PROJECTOR SUPPORT

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



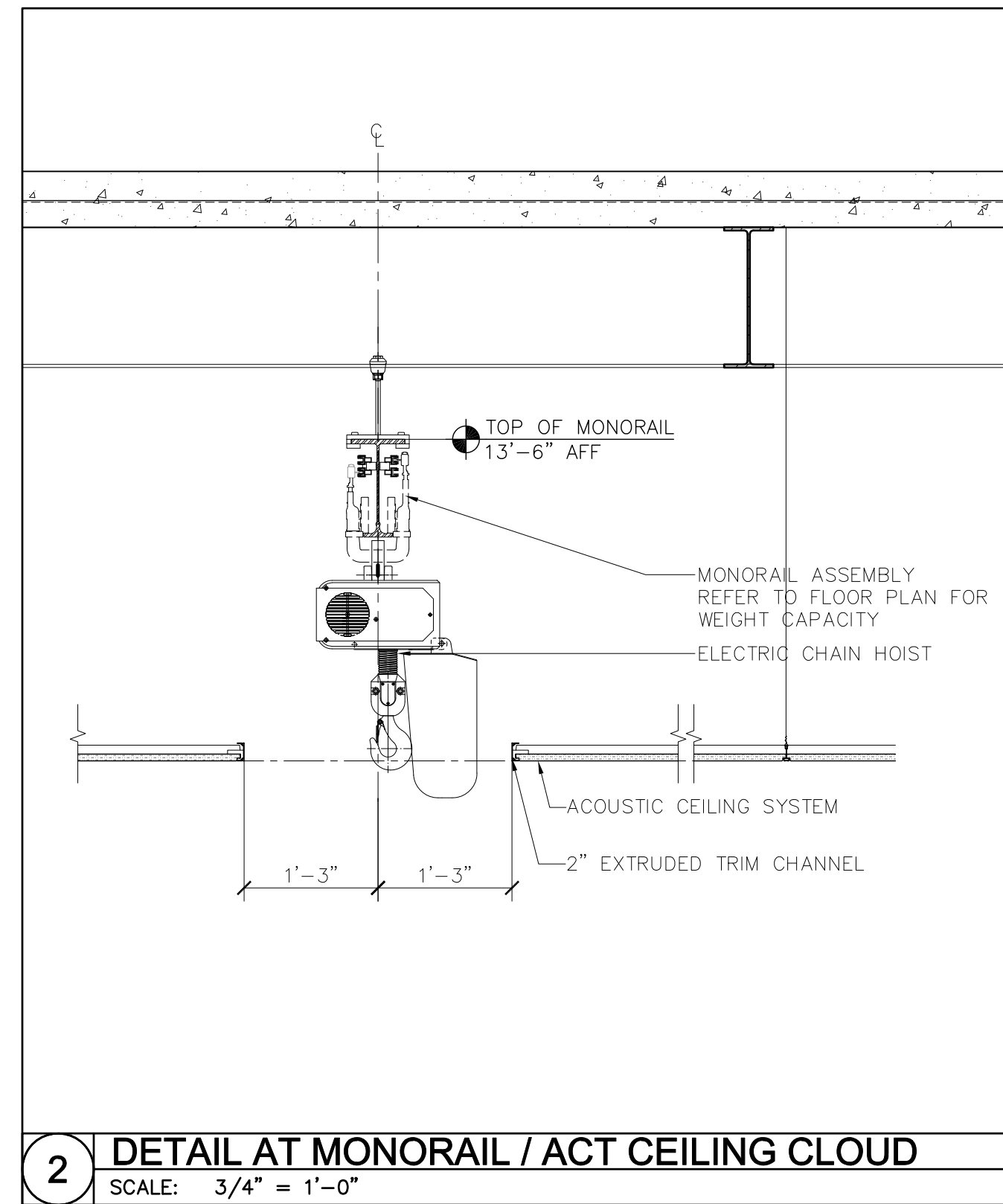
4 DETAIL AT CABLE TRAY / MONORAIL

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



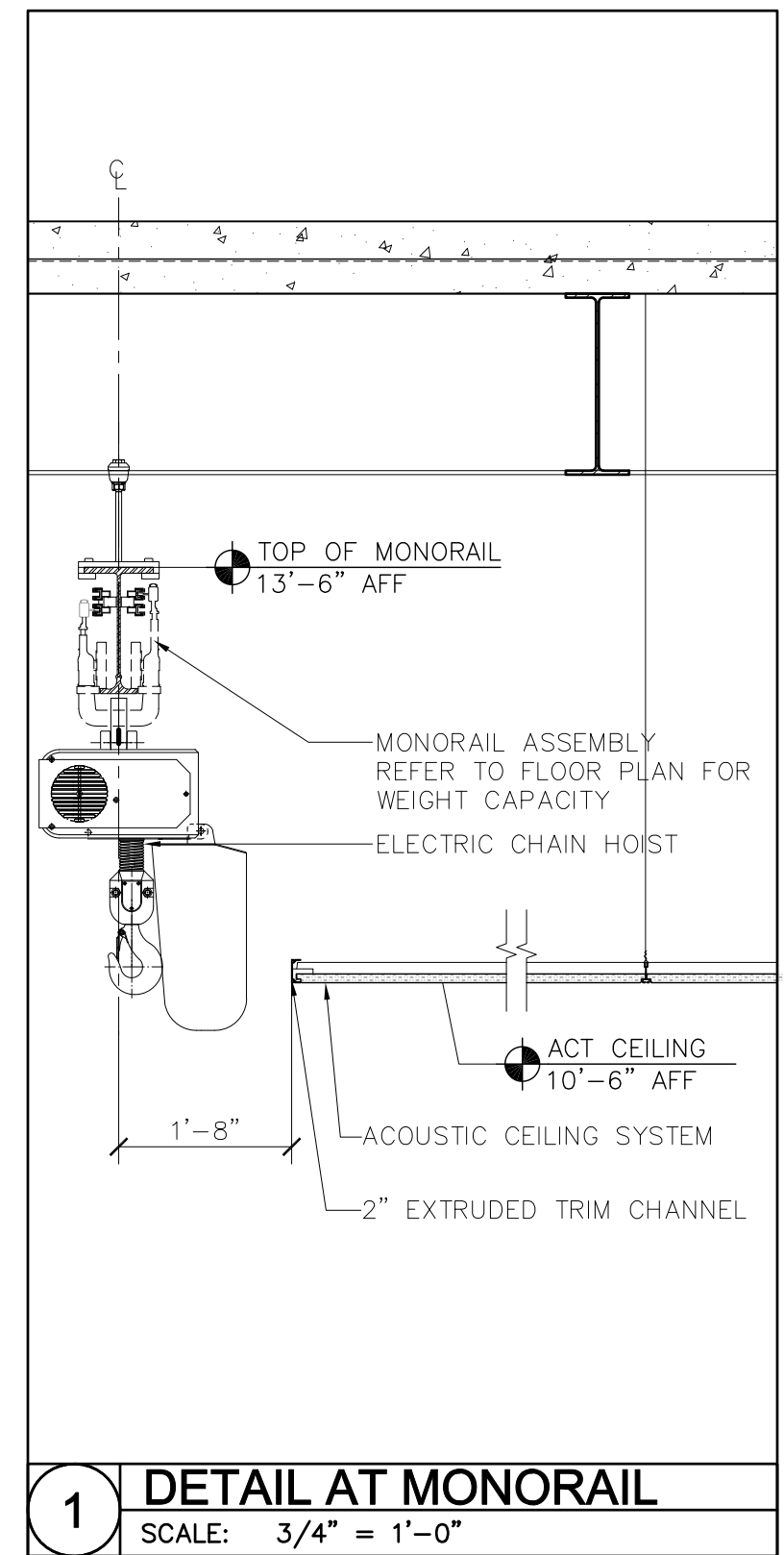
3 DETAIL AT MONORAIL / ACT CEILING

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



2 DETAIL AT MONORAIL / ACT CEILING CLOUD

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



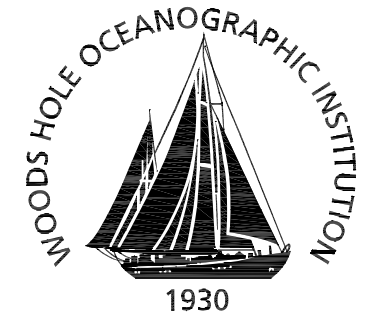
1 DETAIL AT MONORAIL

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

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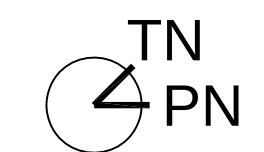
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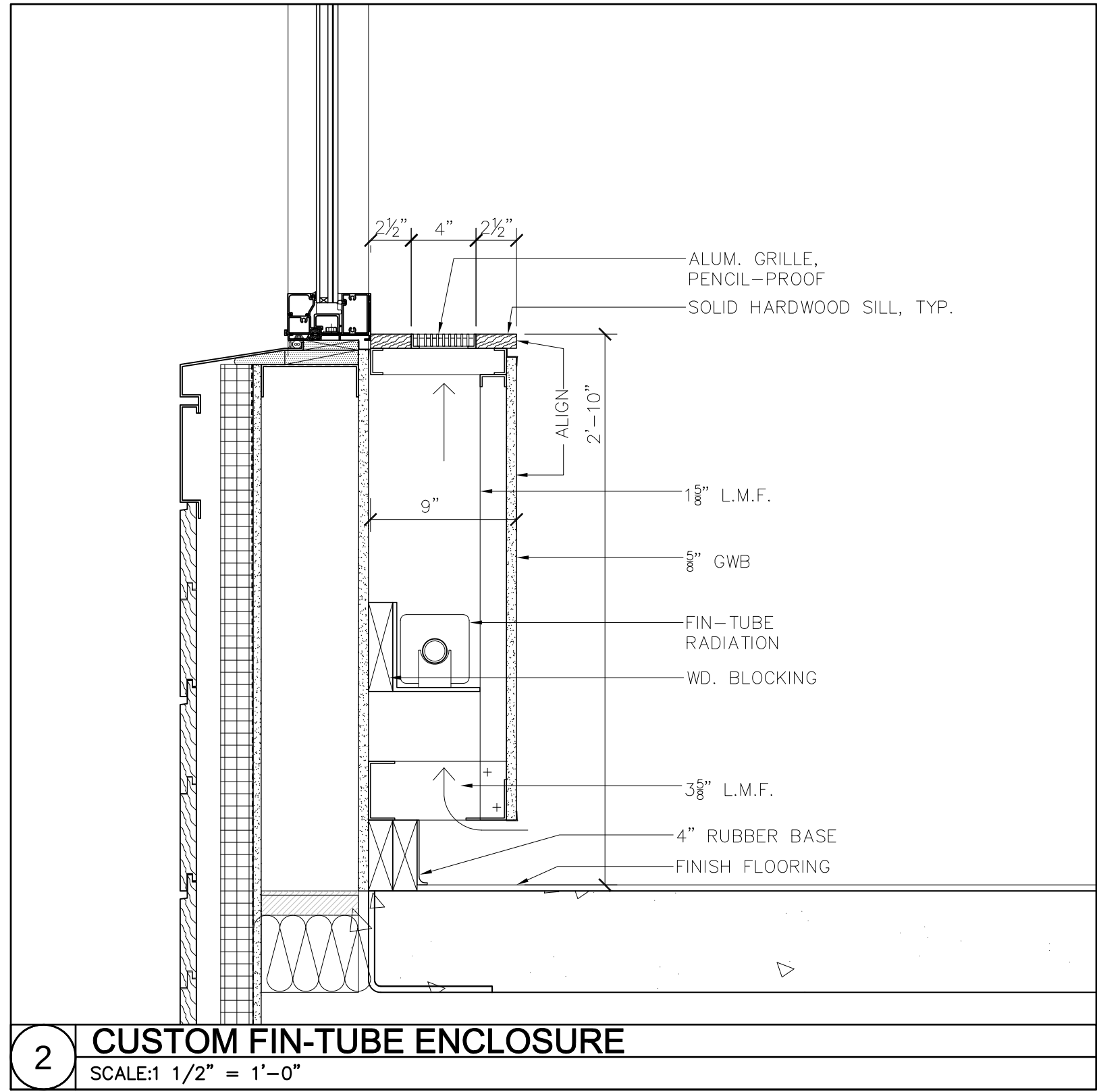
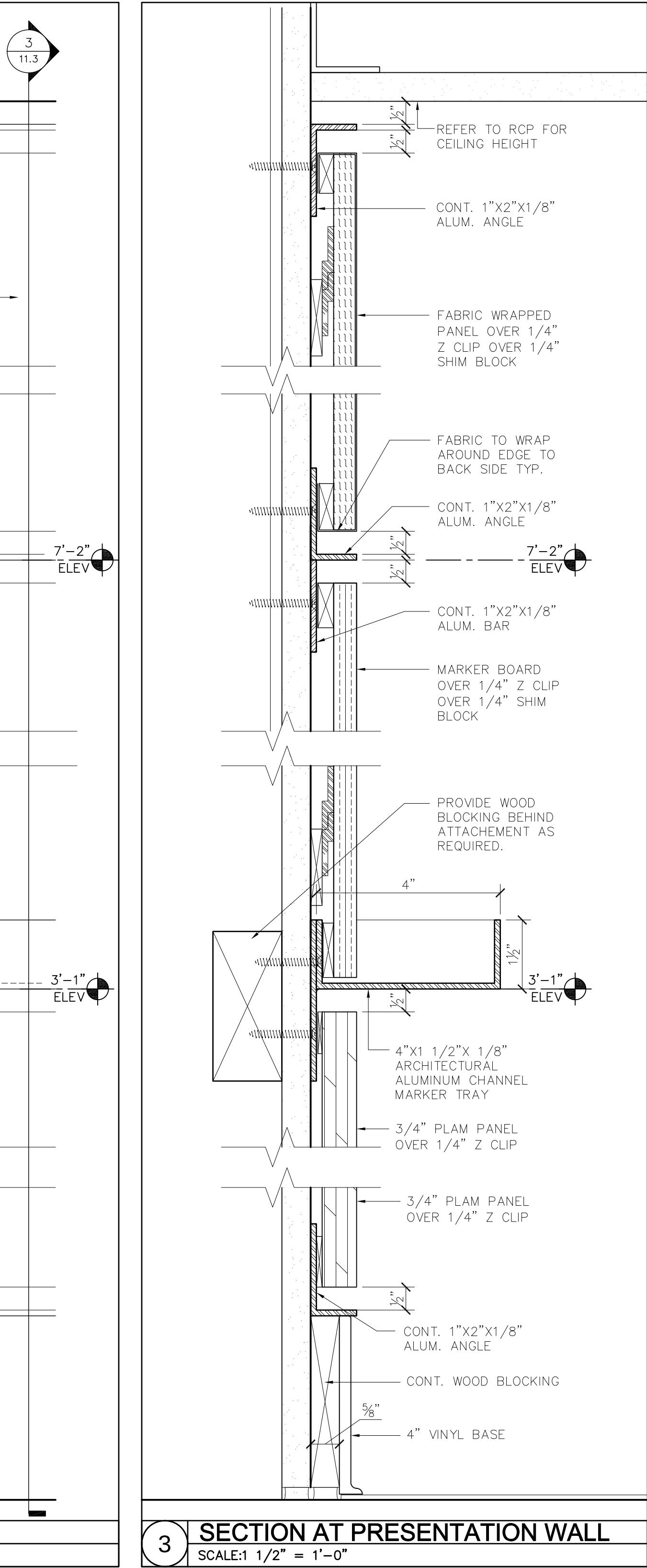
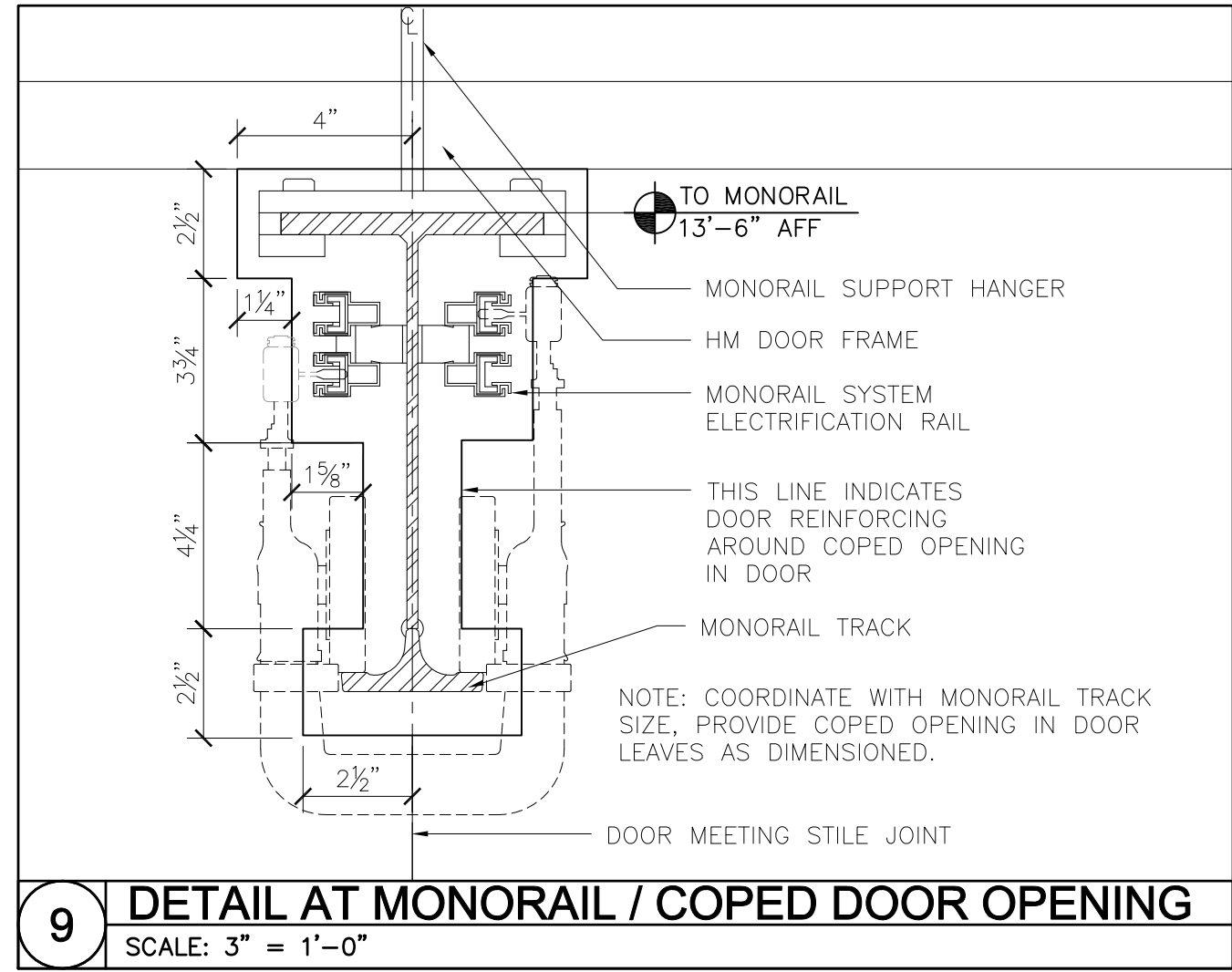
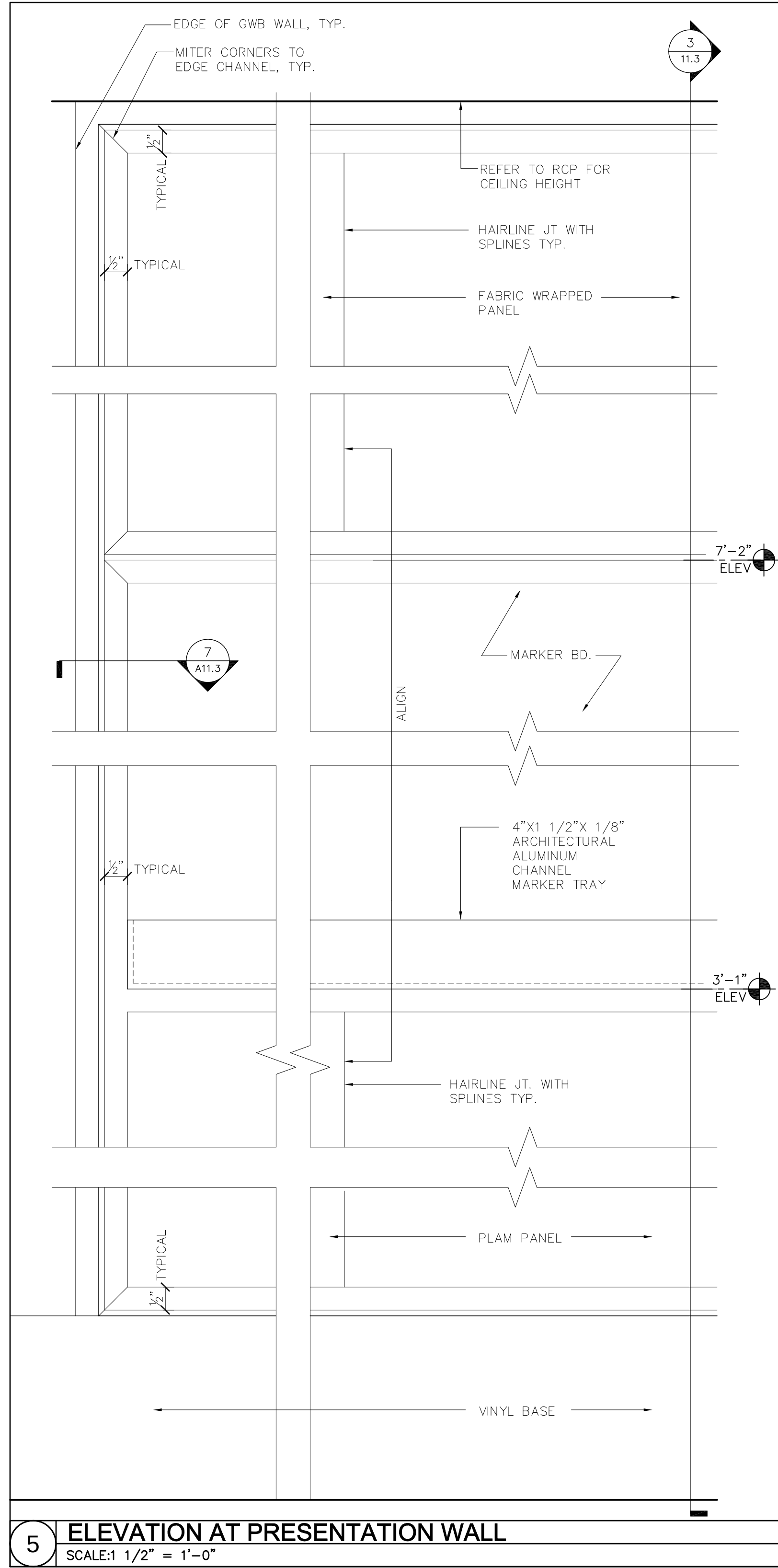
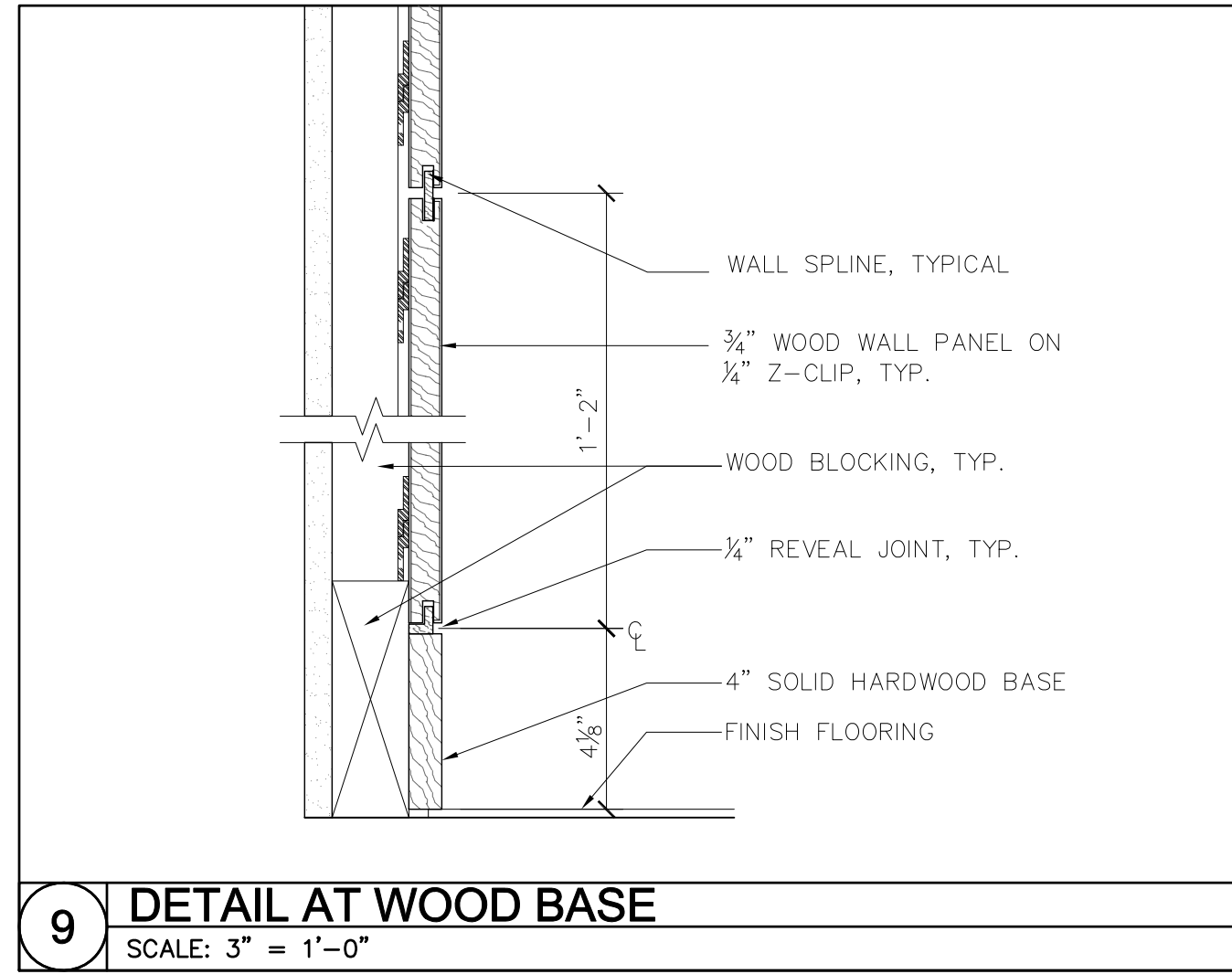
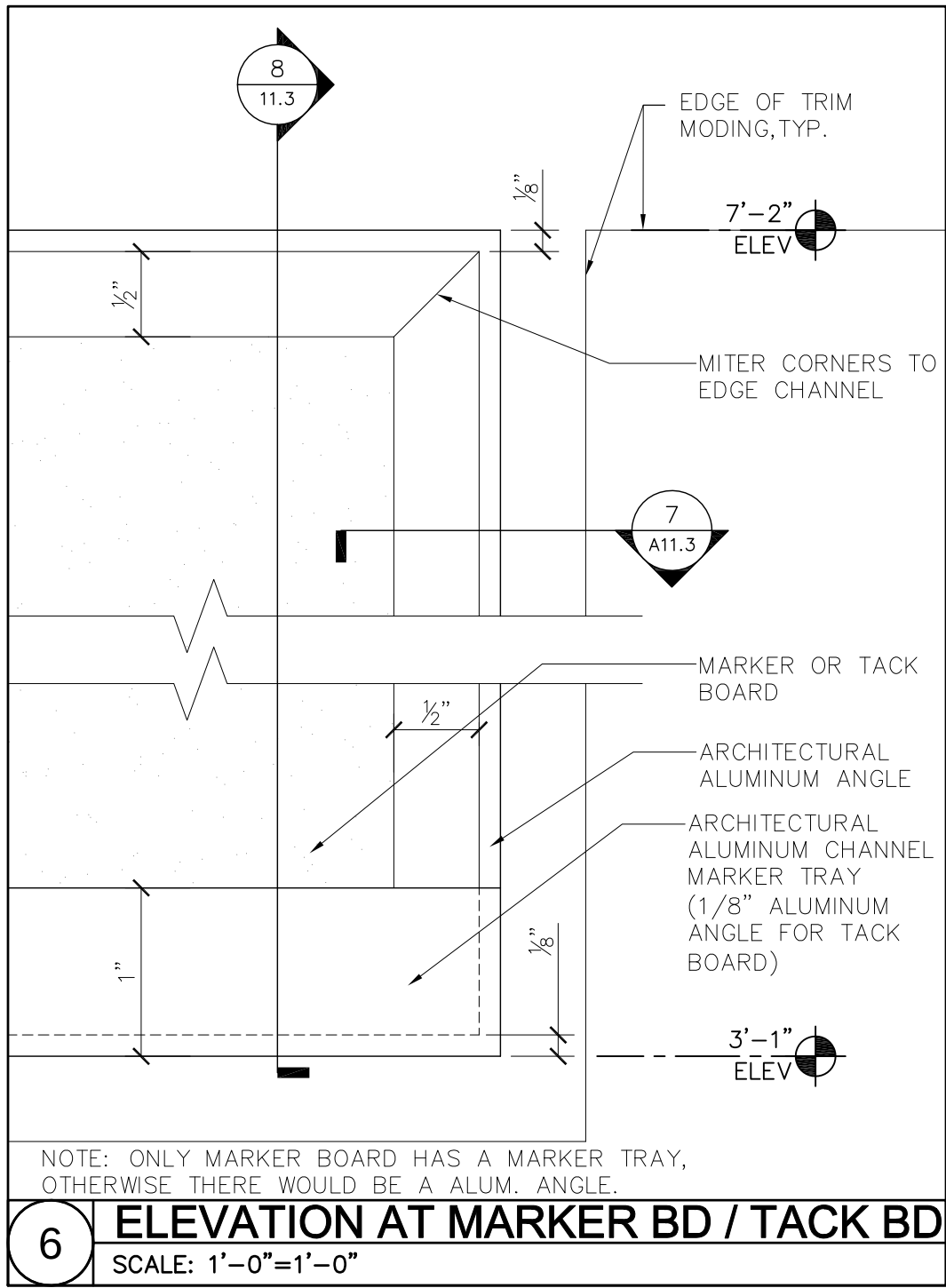
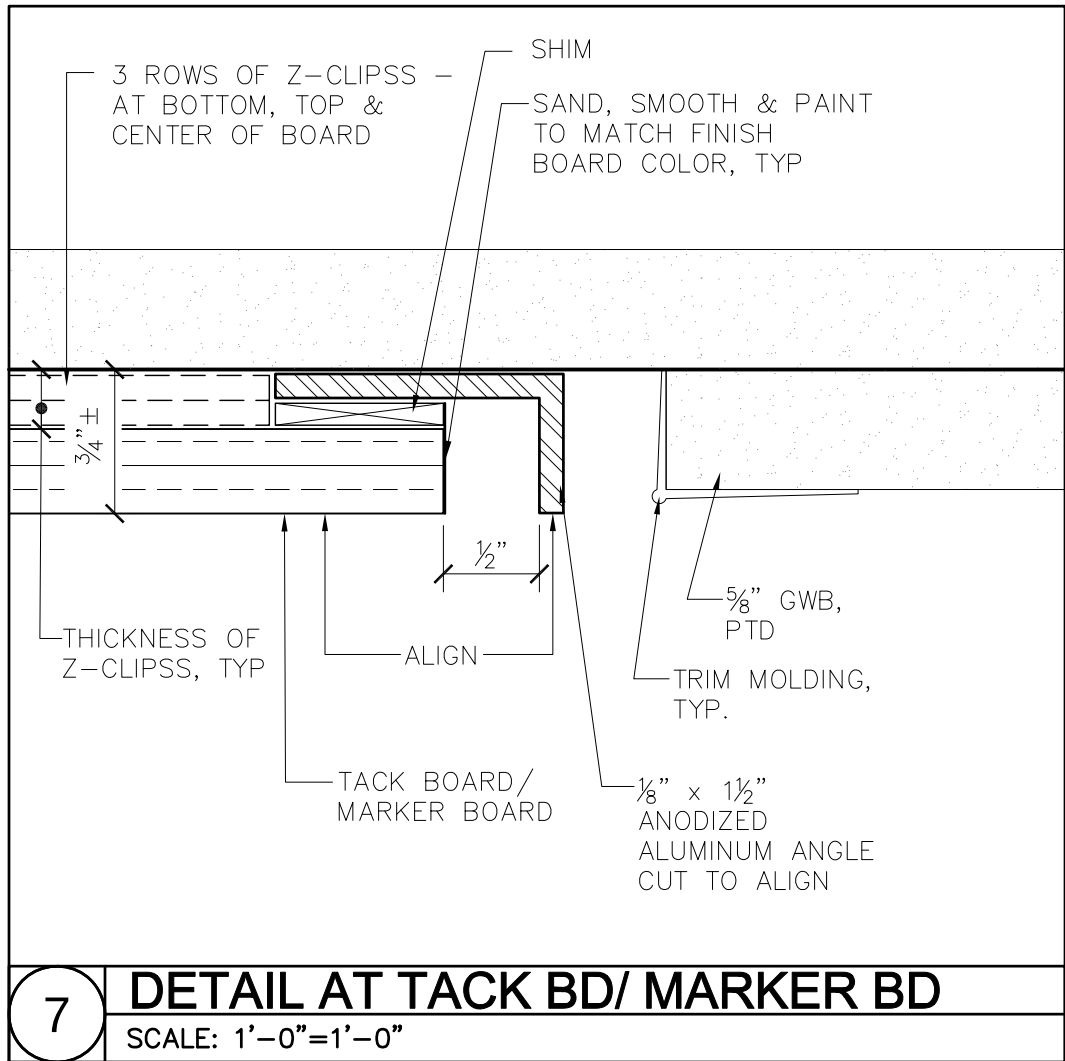
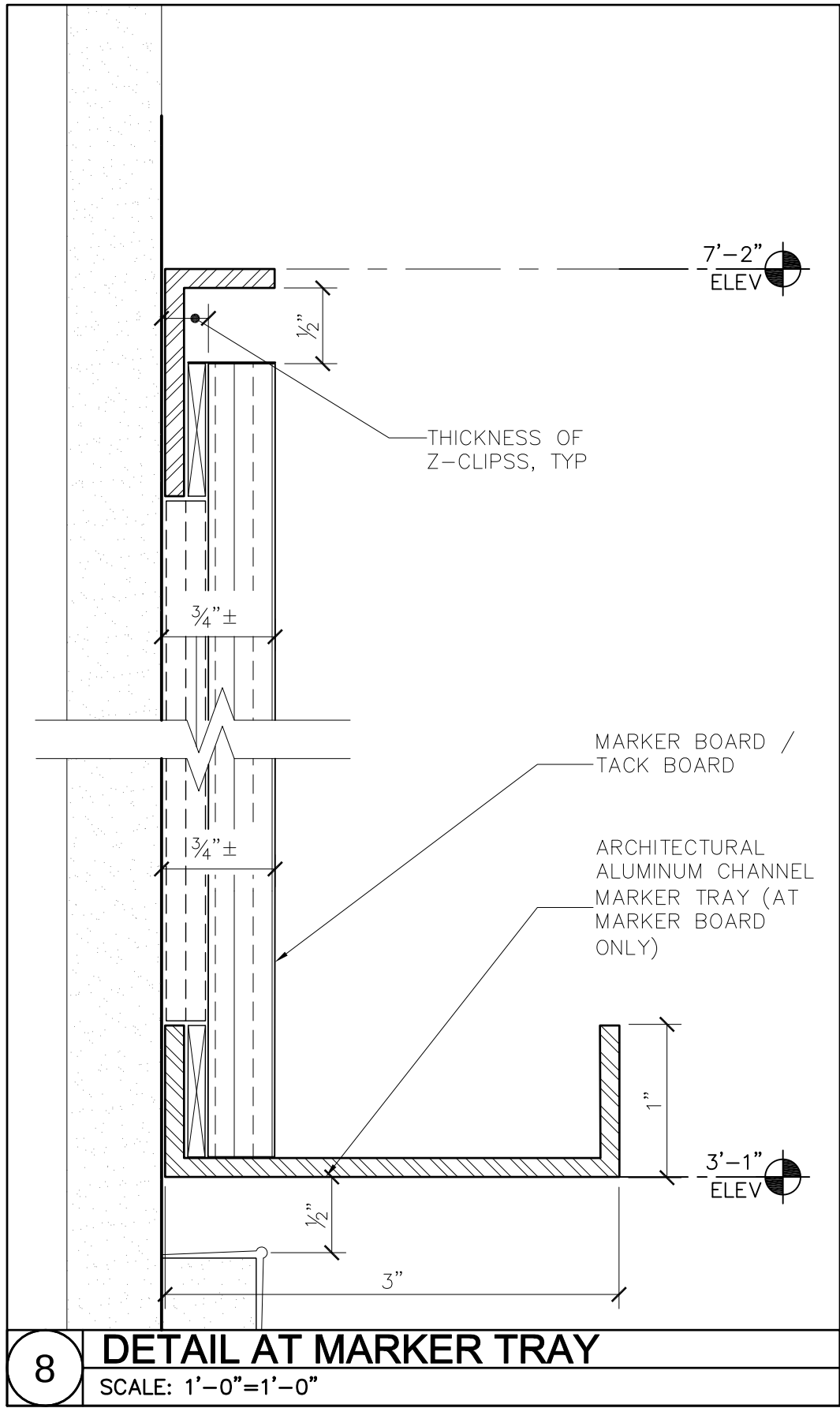
Revisions

CEILING DETAILS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

A11.2

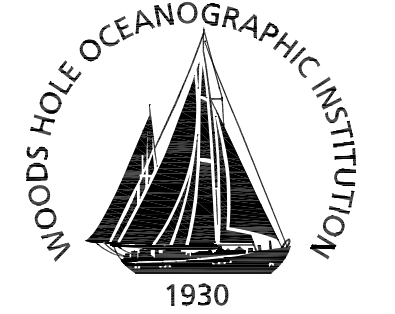
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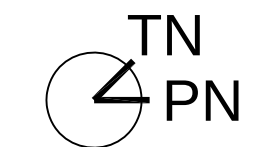
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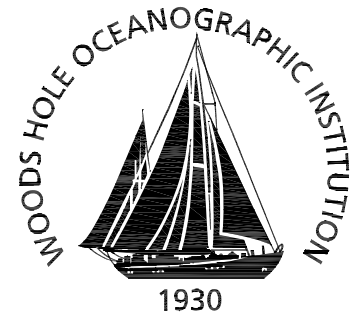
Job Number 31003
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Filename 31003-A11.3
Date 15 APRIL 2011

Revisions

INTERIOR DETAILS

CONSTRUCTION DOCUMENTS
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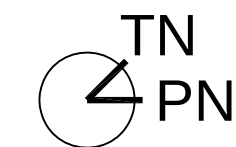
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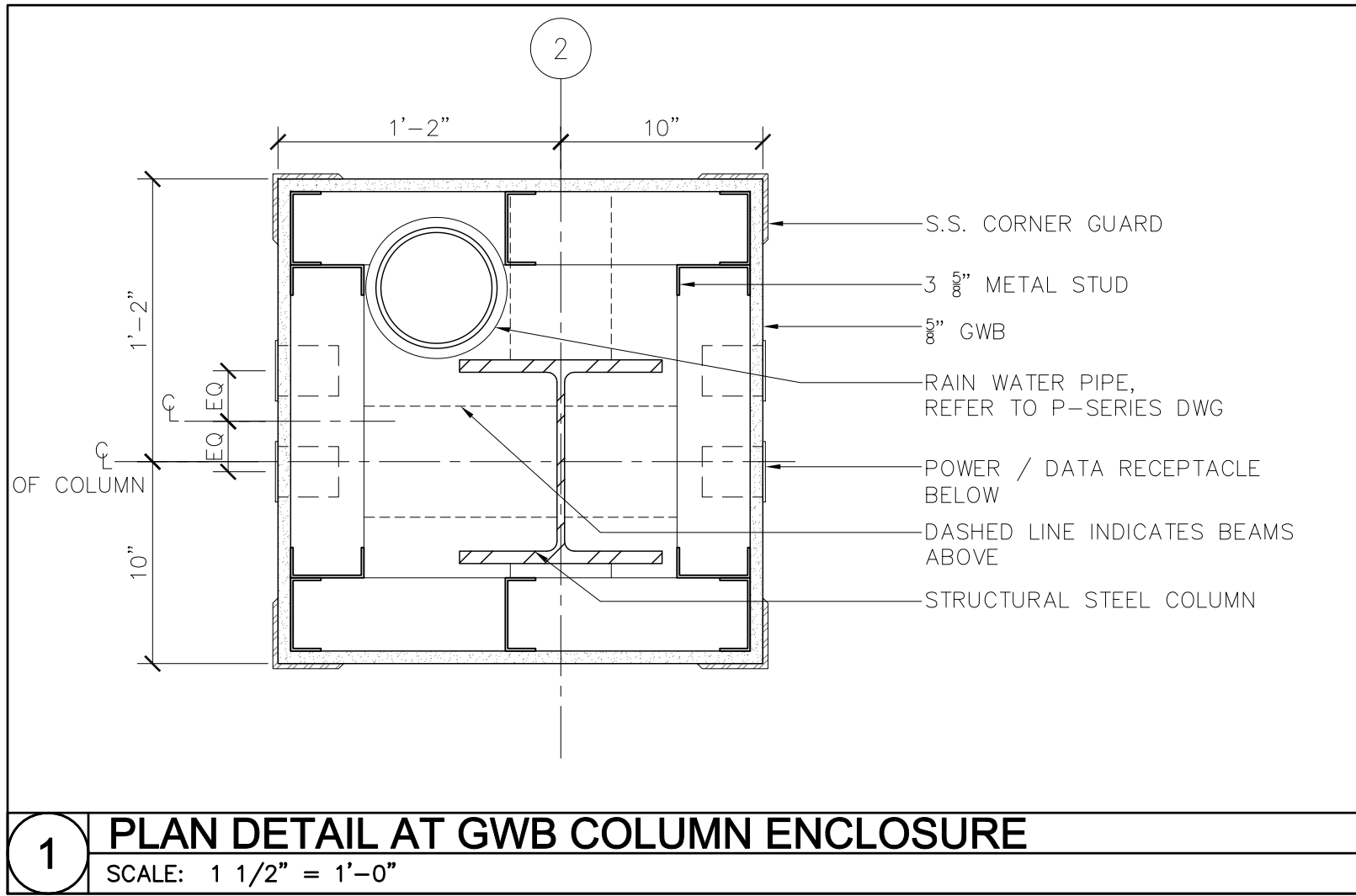
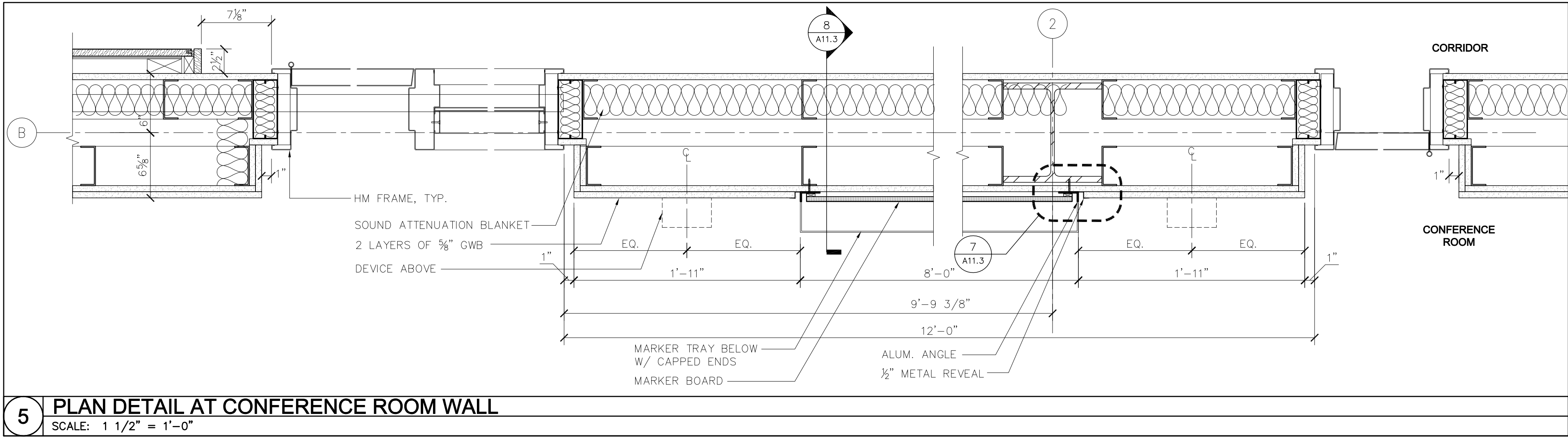
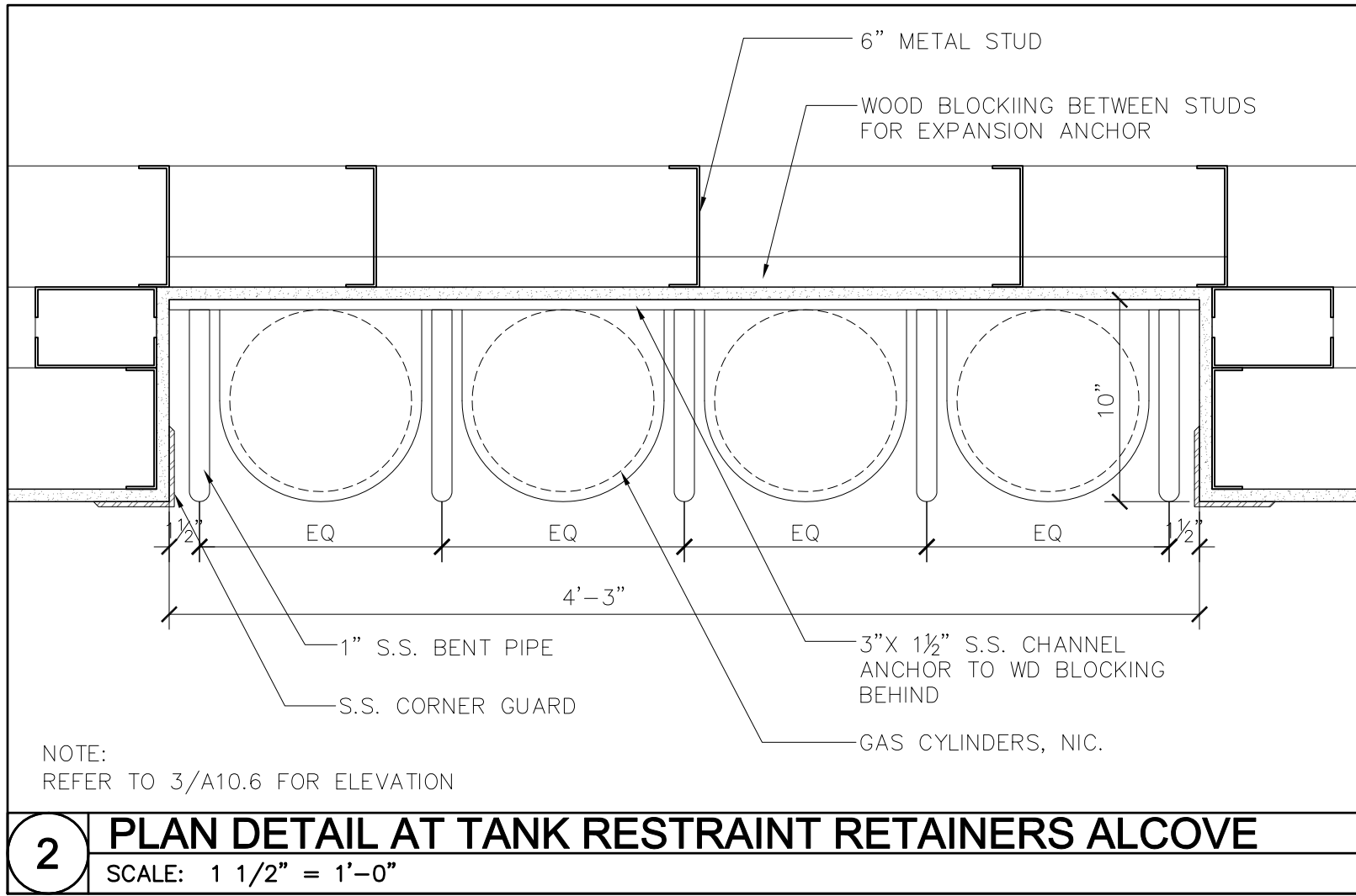
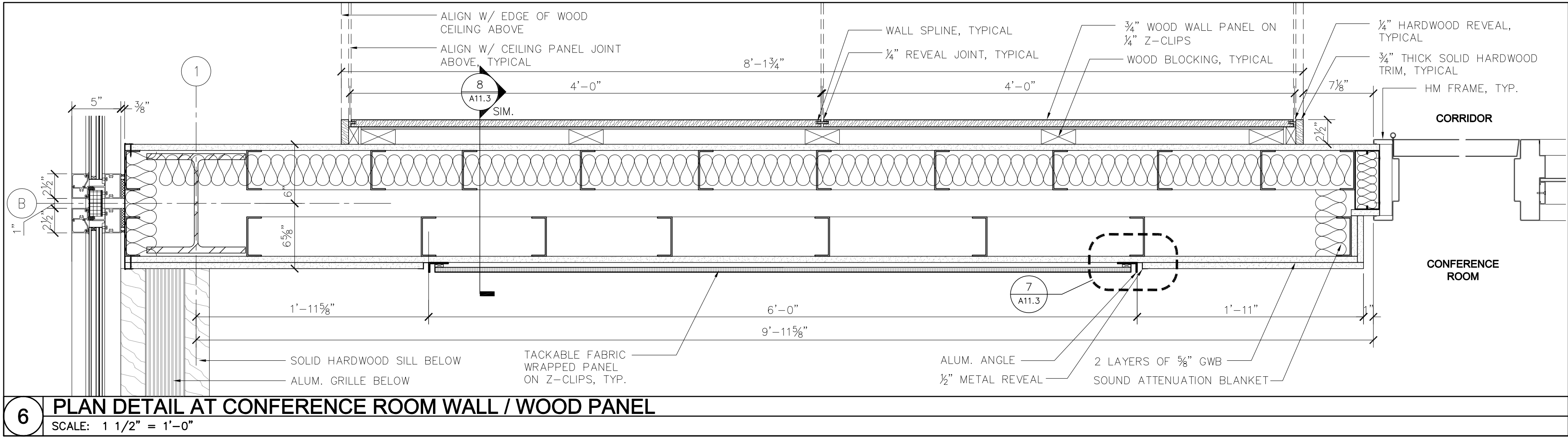
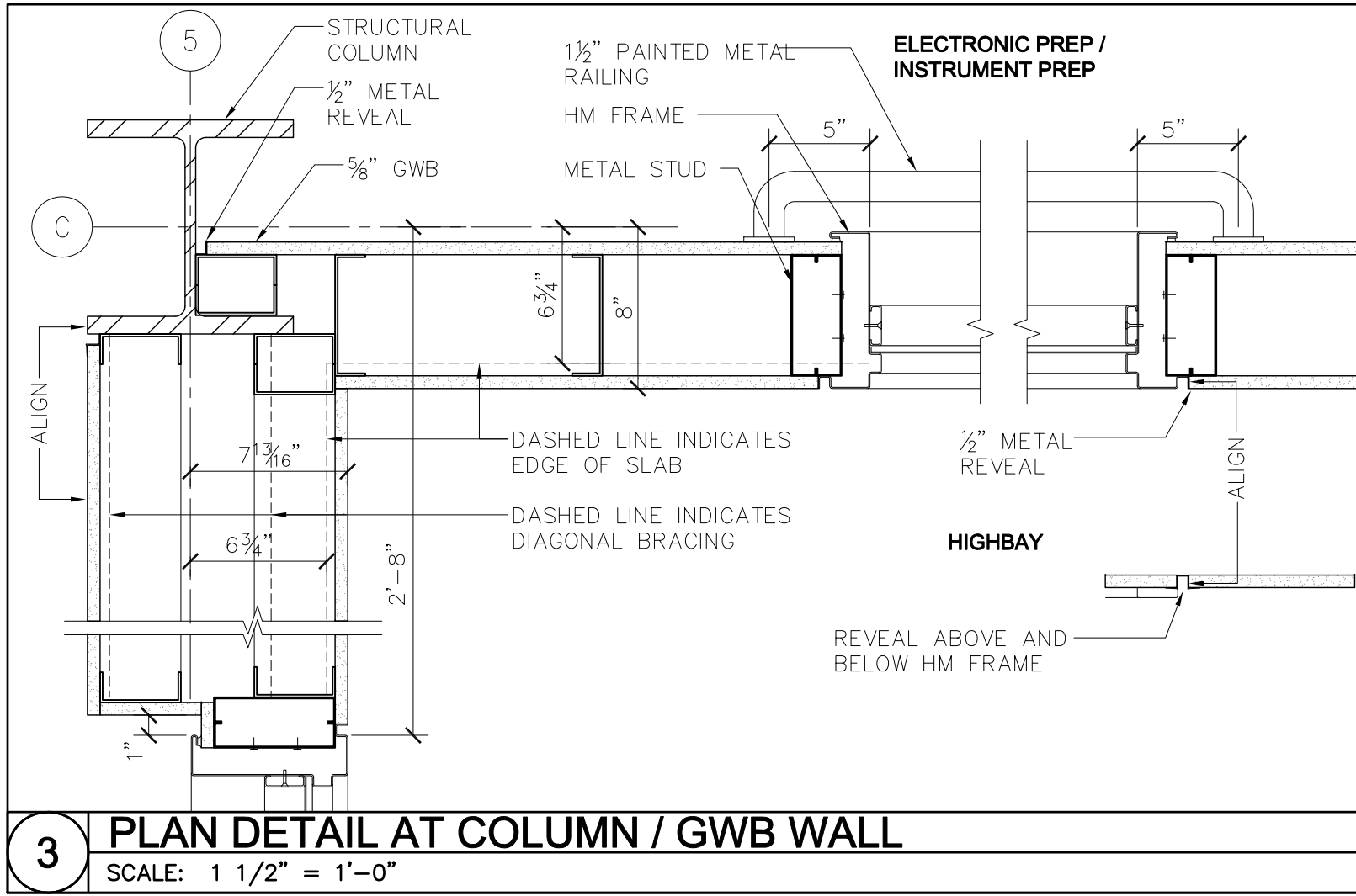
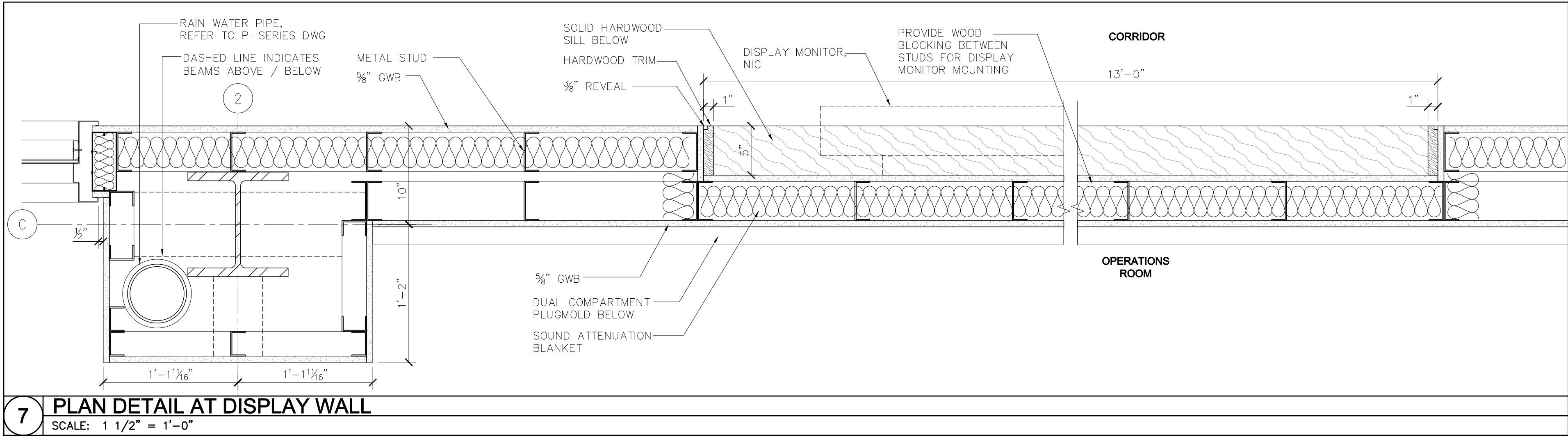
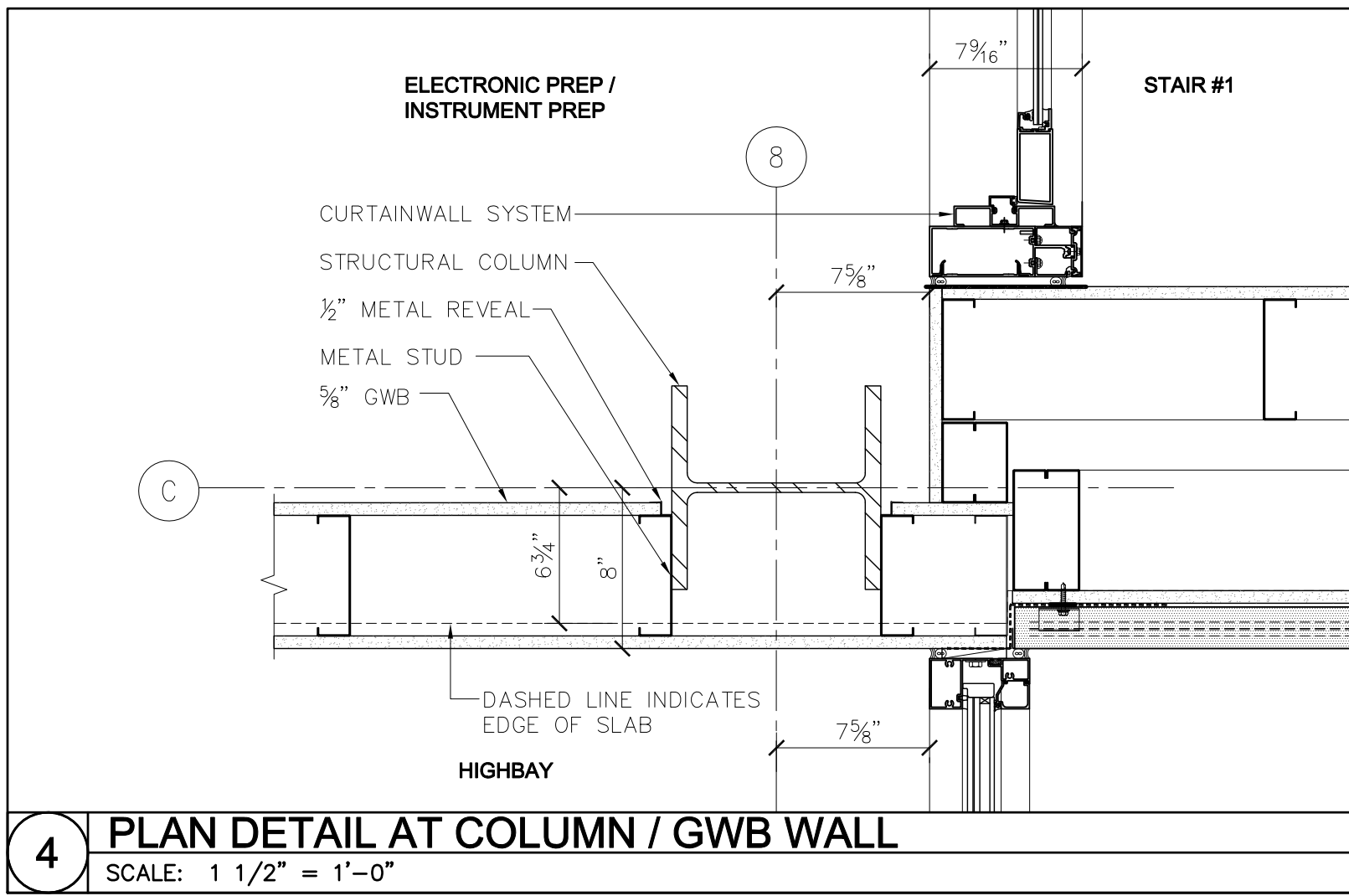
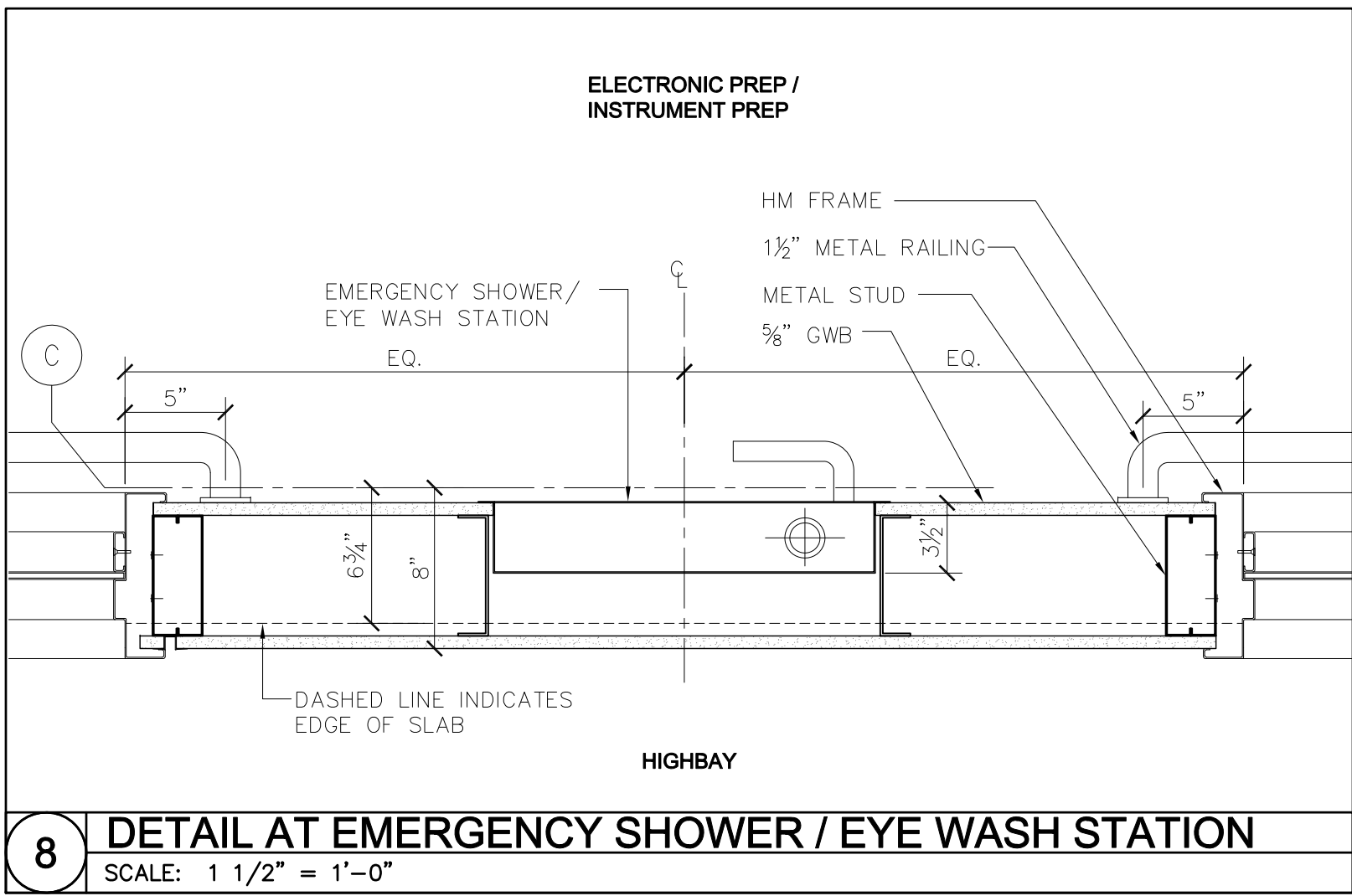
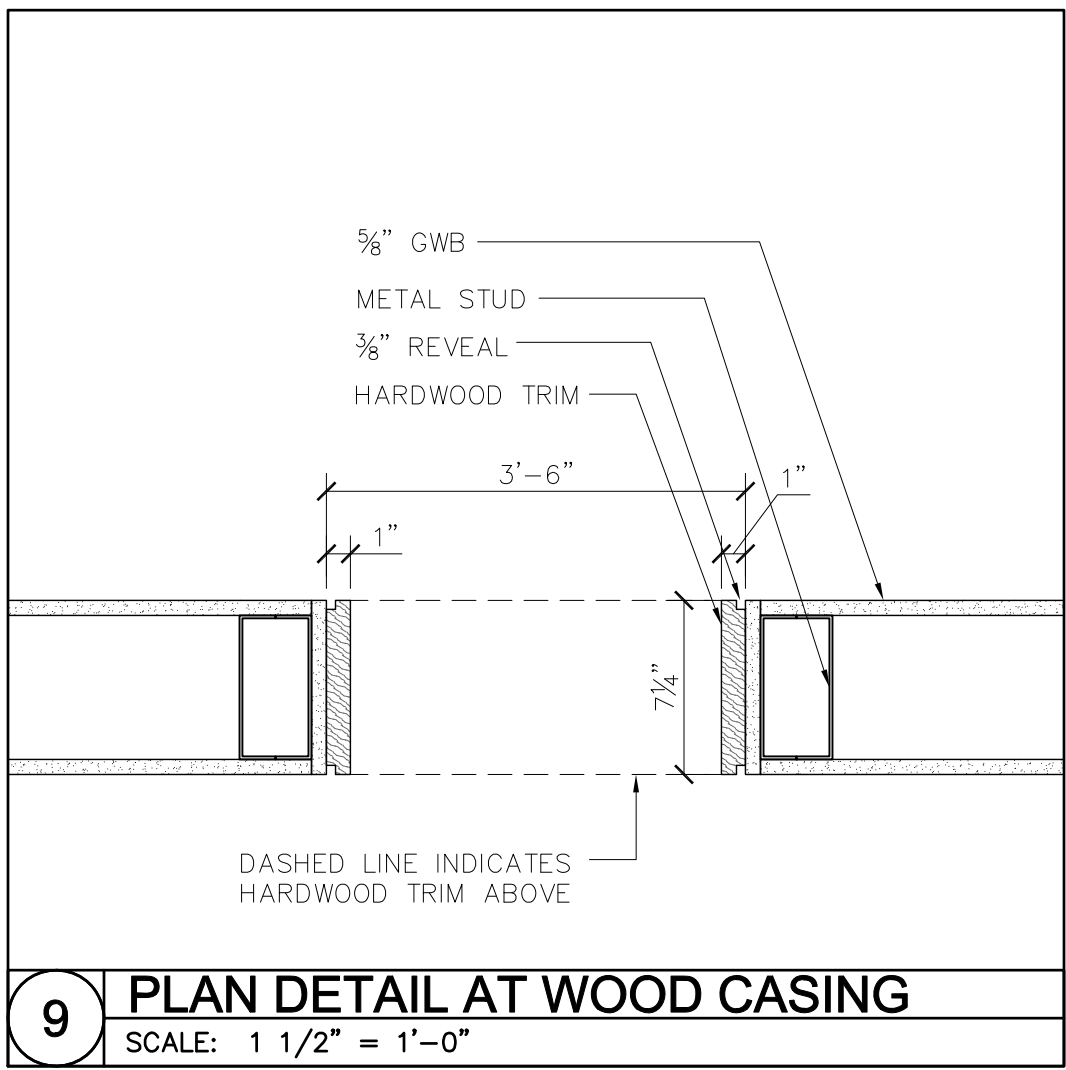
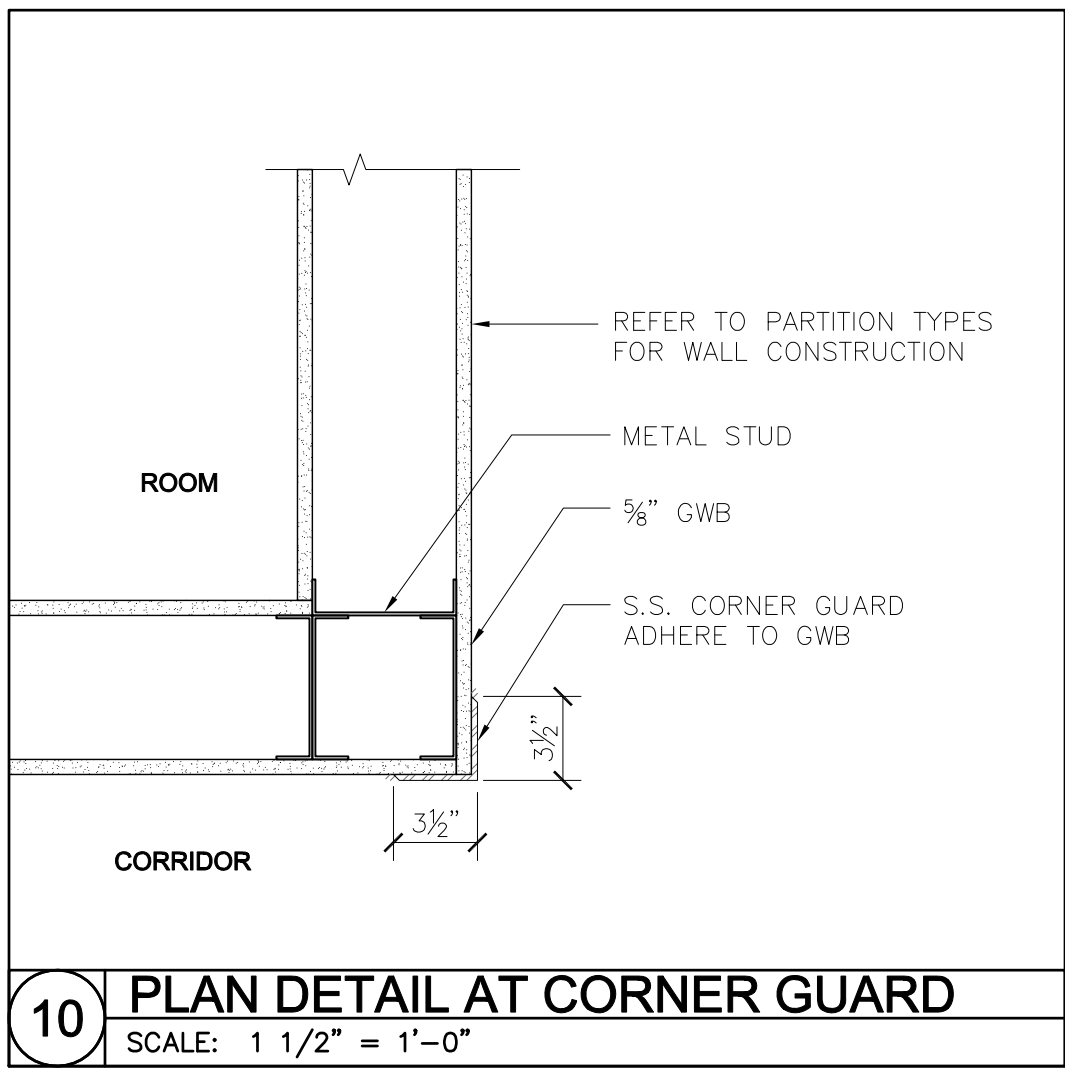
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Drawing By GC
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Filename 31003-A11.4
Date 15 APRIL 2011

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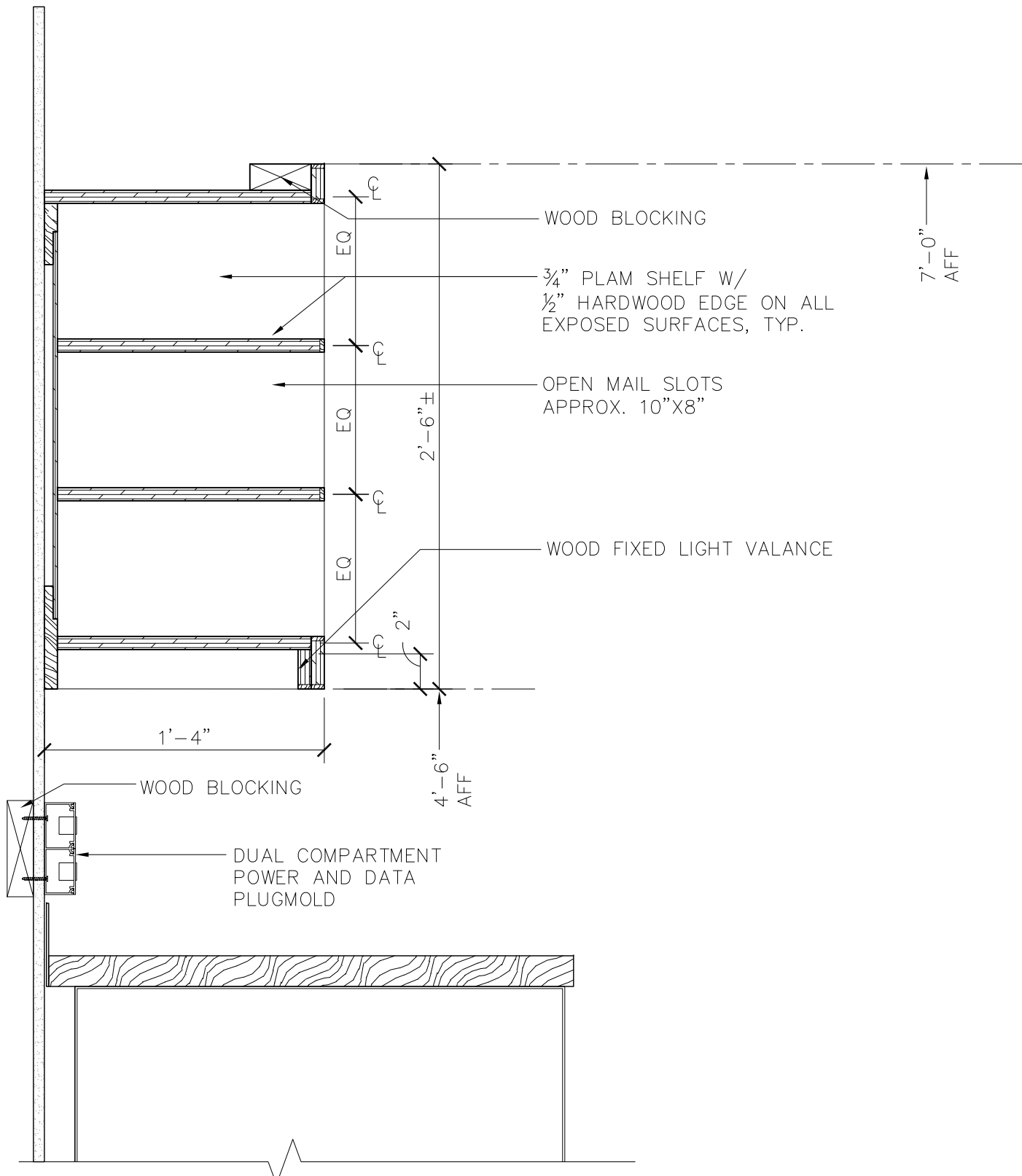
INTERIOR DETAILS

CONSTRUCTION DOCUMENTS
Scale: AS NOTED

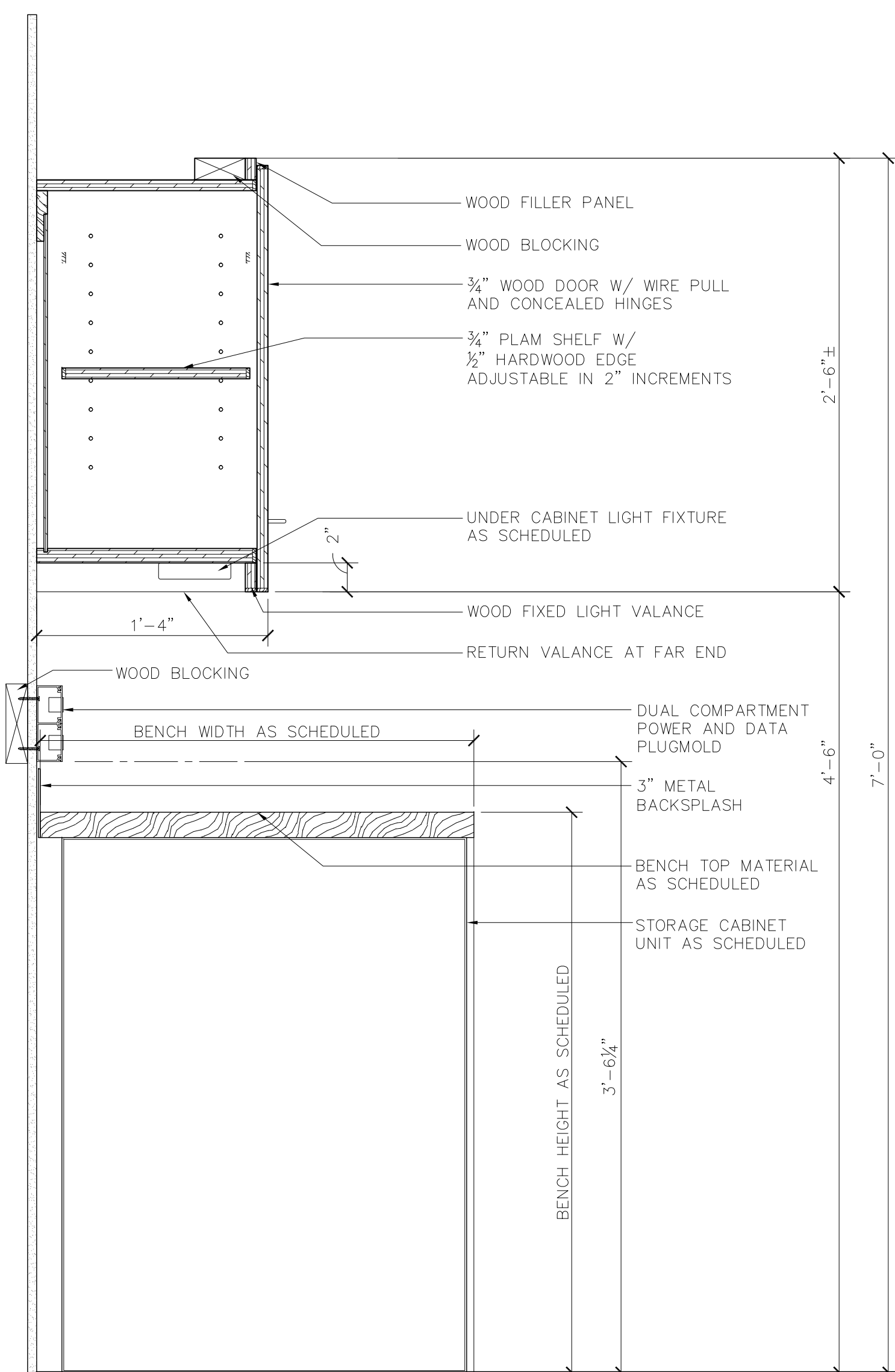
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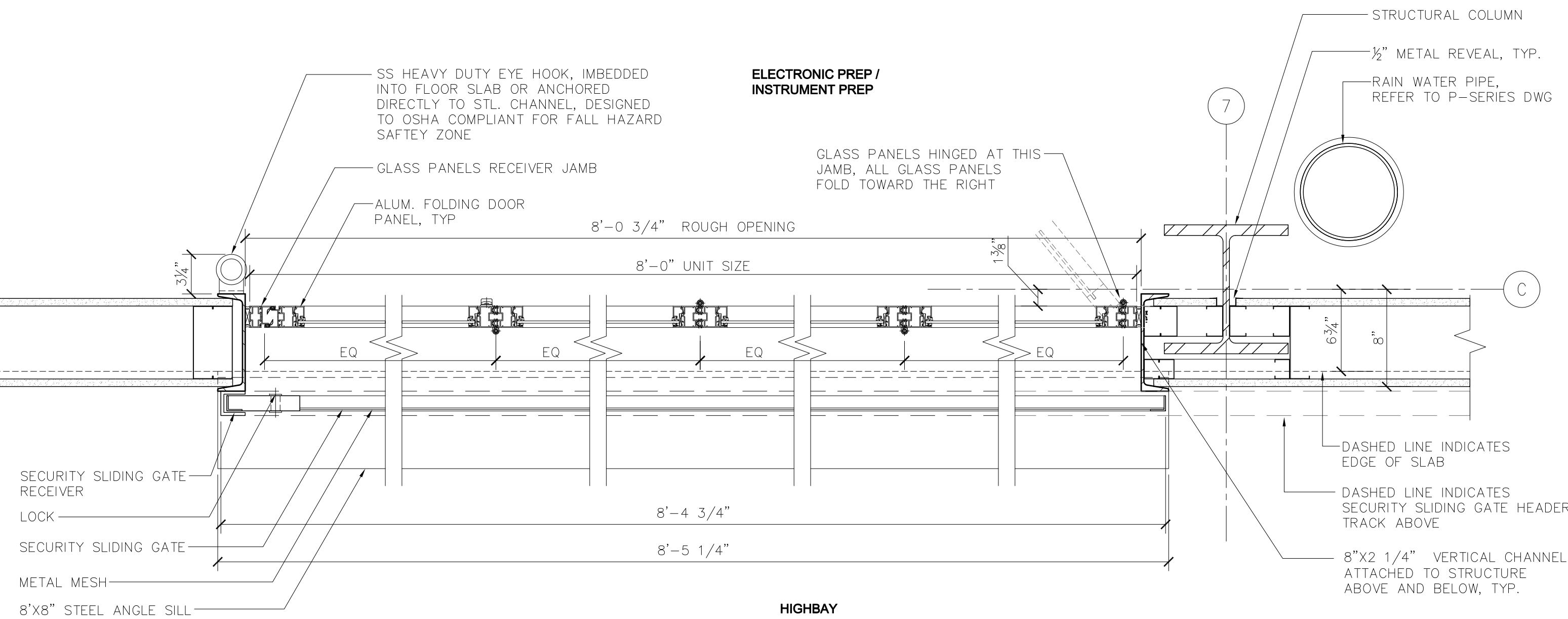
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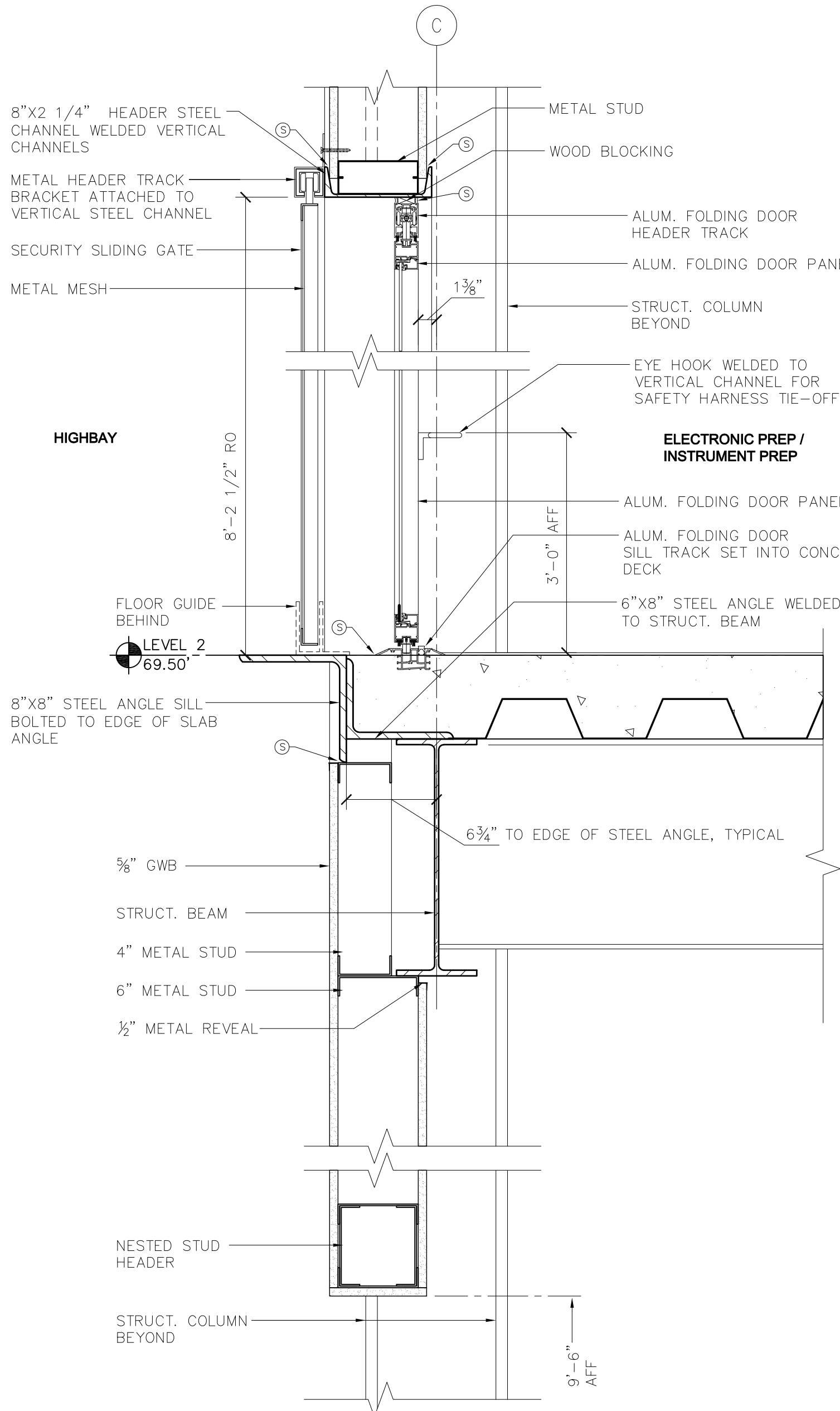
5 SECTION DETAIL AT BUILT-IN CUBBY
SCALE: 1 1/2" = 1'-0"



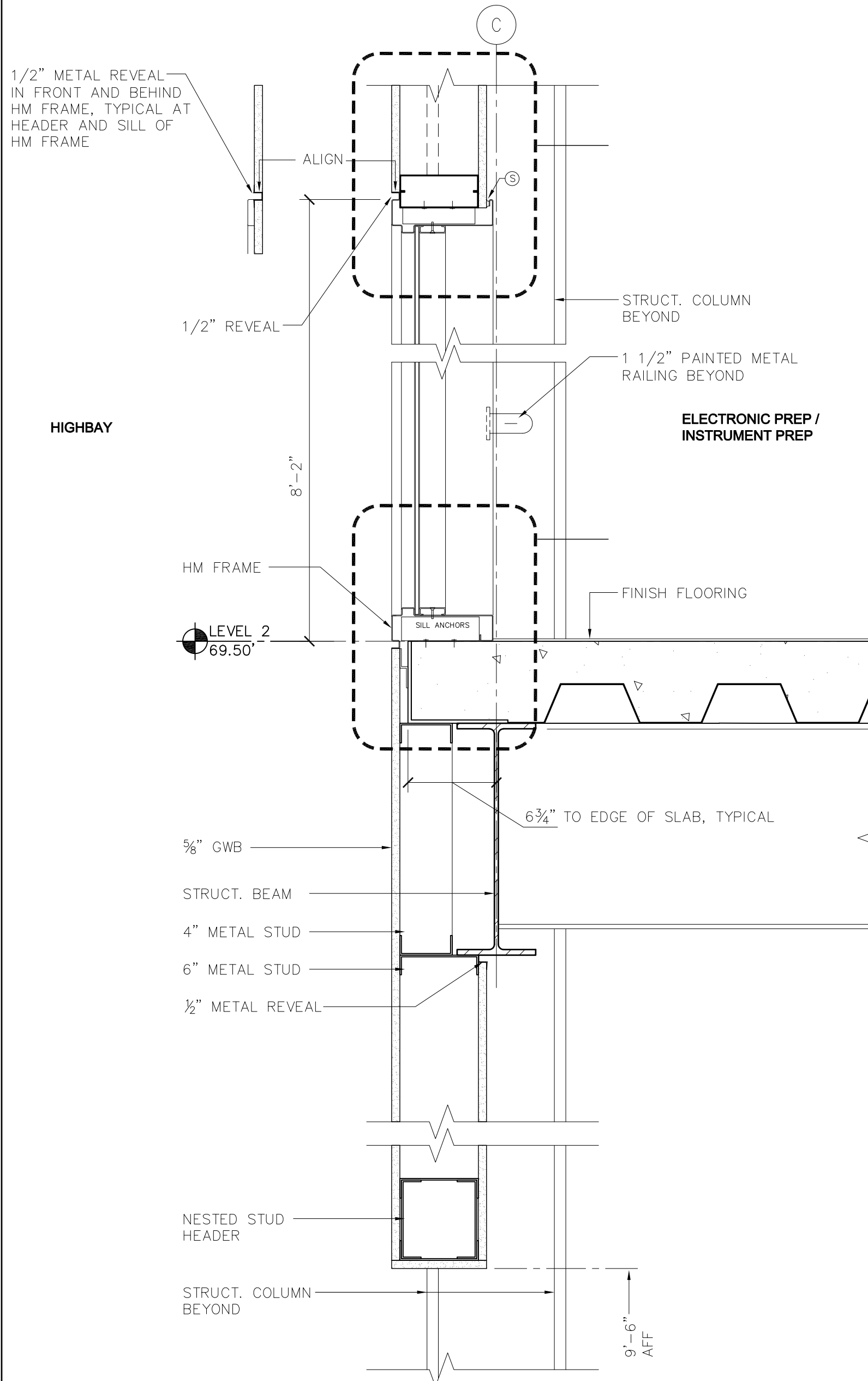
4 SECTION DETAIL AT LAB BENCH / UPPER CABINET
SCALE: 1 1/2" = 1'-0"



3 PLAN DETAIL AT FOLIDNG GLASS DOOR
SCALE: 1 1/2" = 1'-0"



2 SECTION DETAIL AT FOLDING GLASS DOOR
SCALE: 1 1/2" = 1'-0"

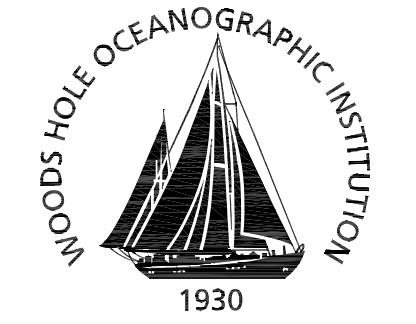


1 SECTION DETAIL AT HIGHBAY VIEW WINDOW
SCALE: 1 1/2" = 1'-0"

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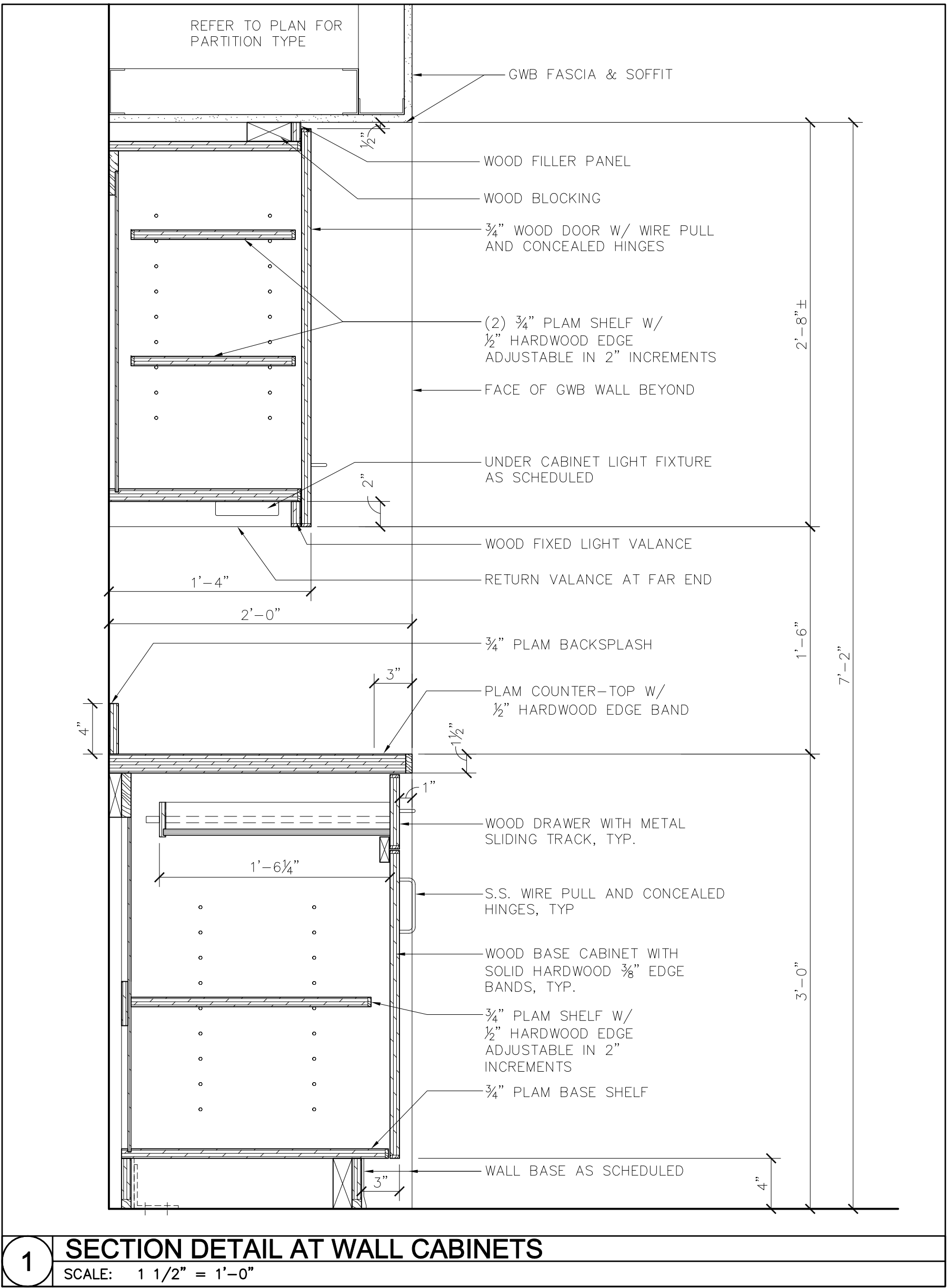
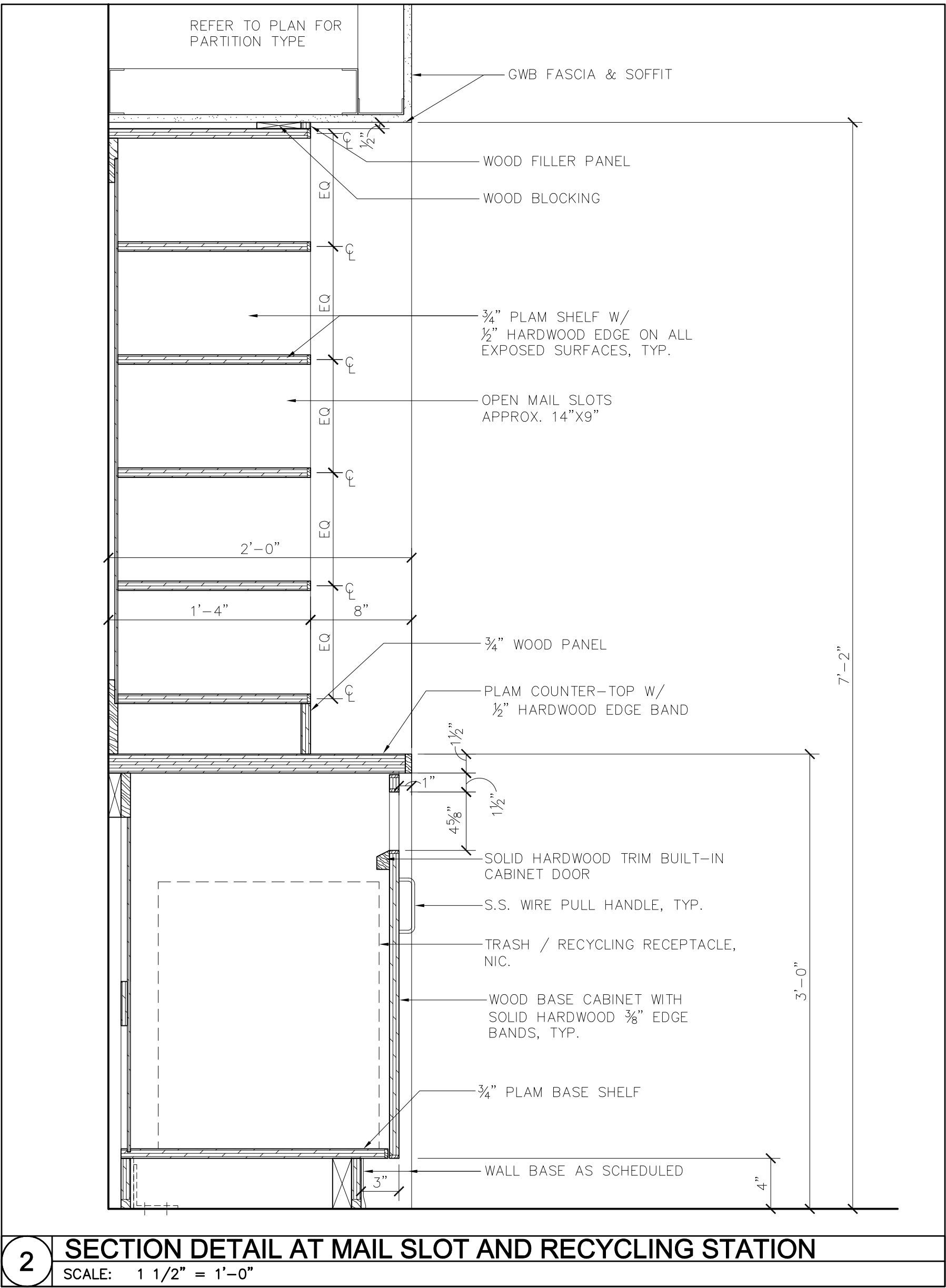
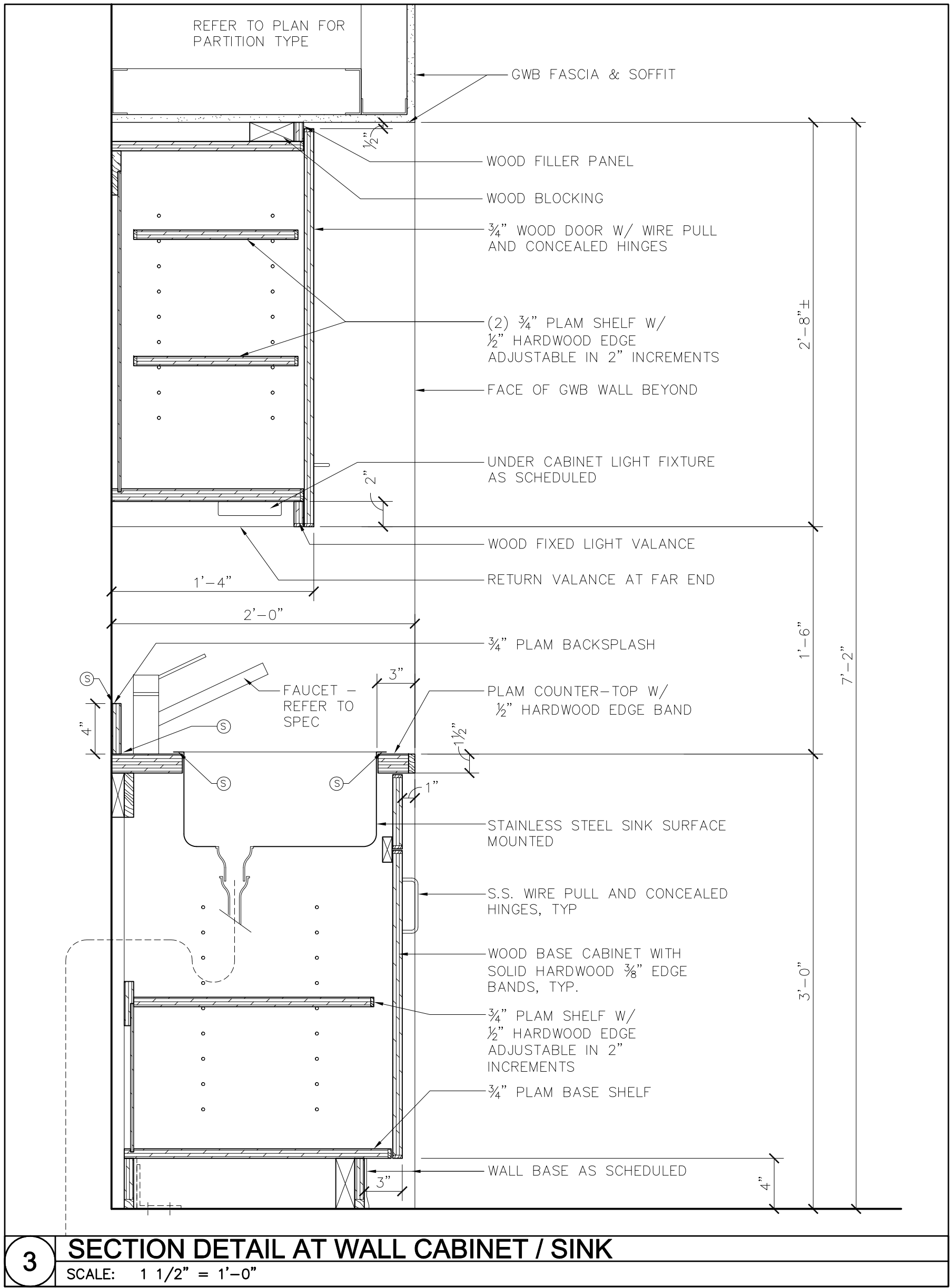
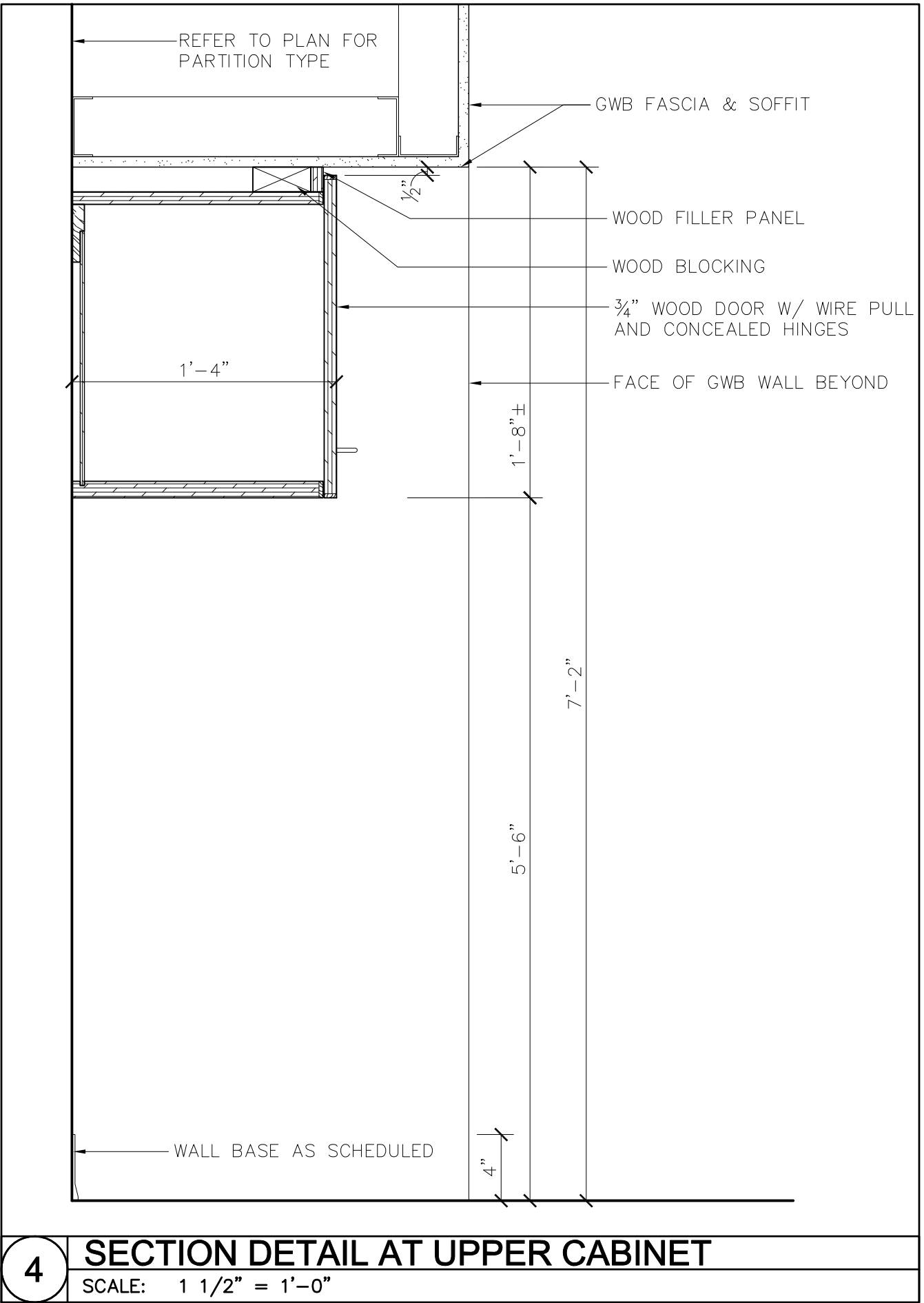
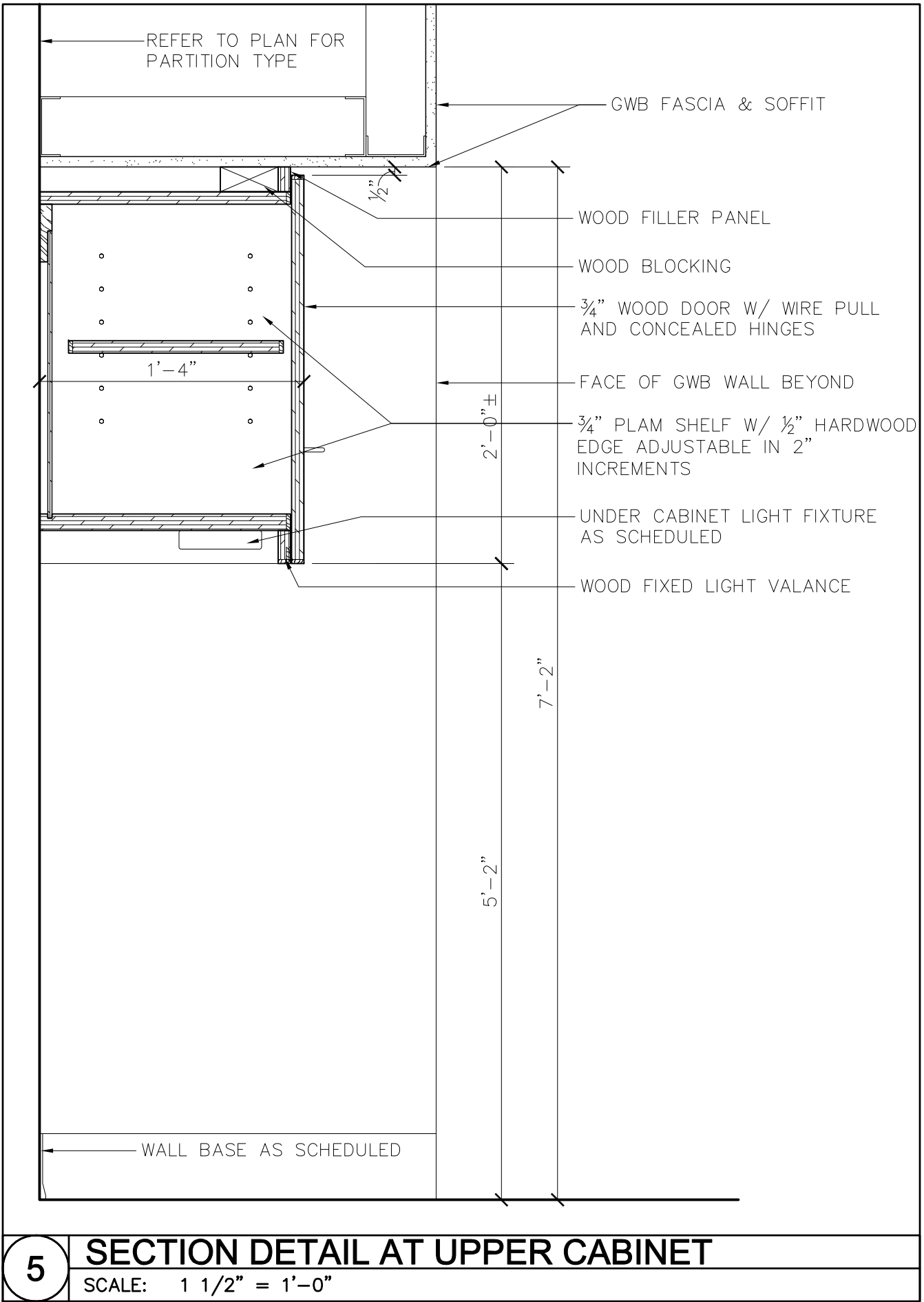
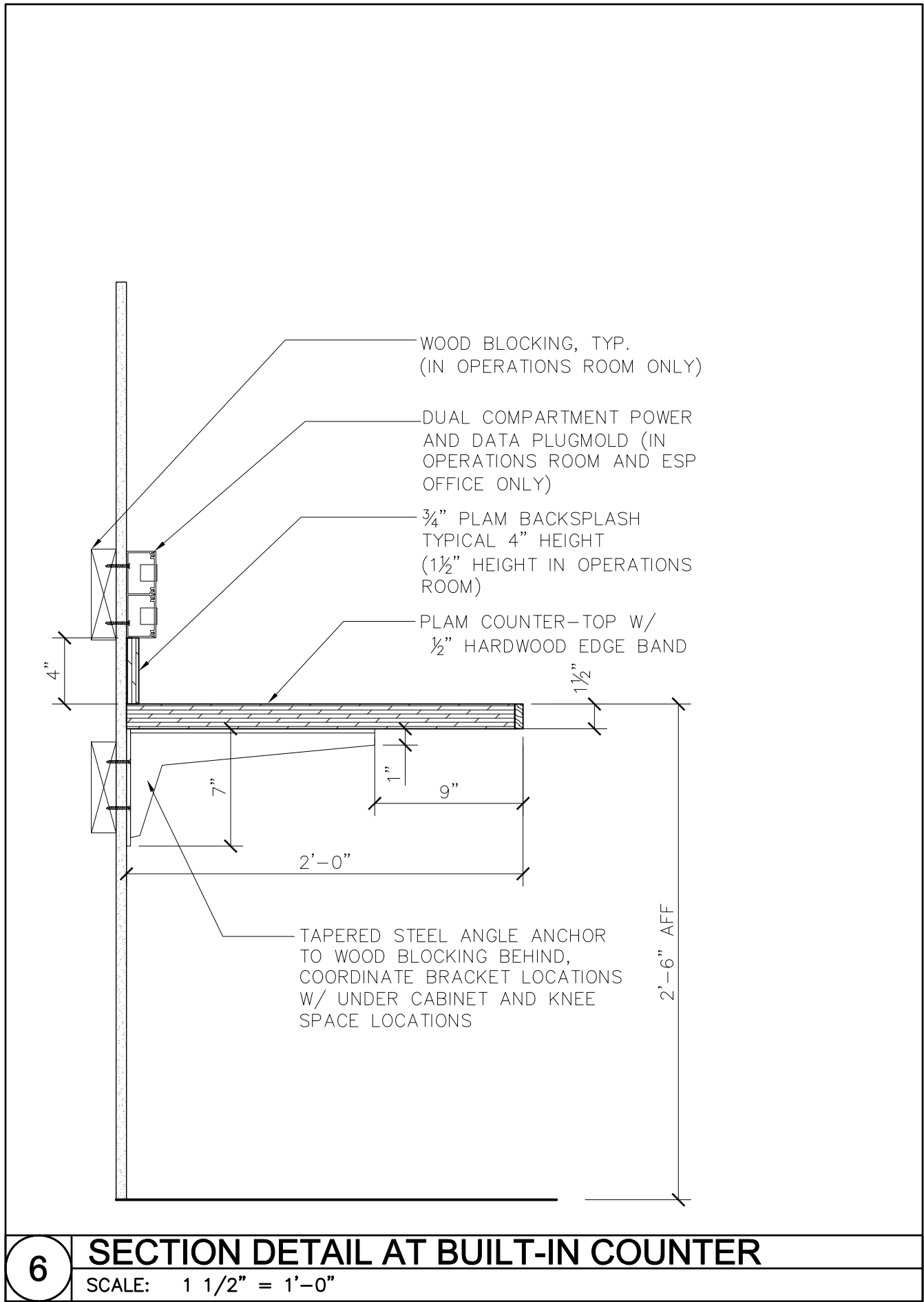
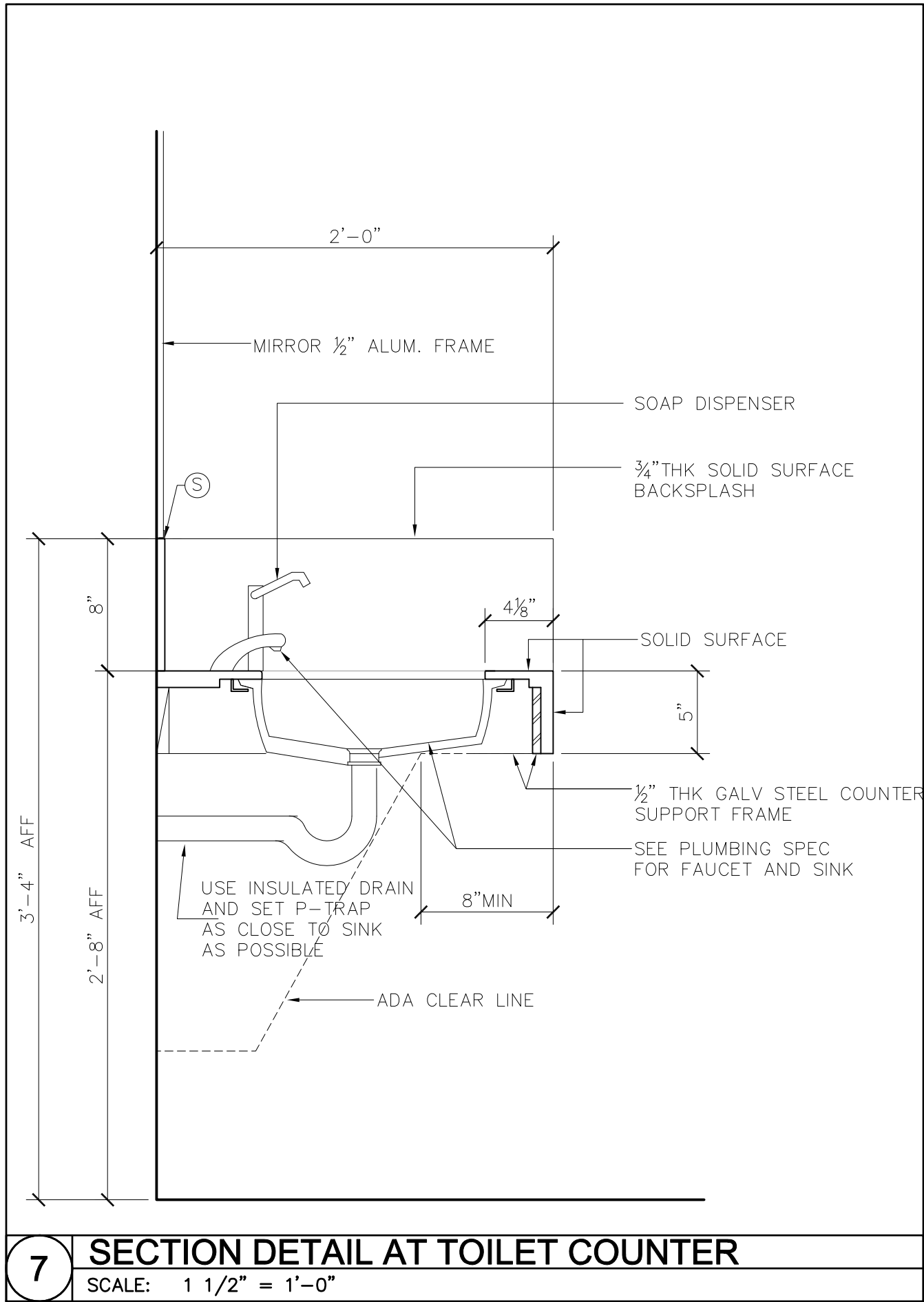
Revisions

INTERIOR DETAILS

CONSTRUCTION DOCUMENTS
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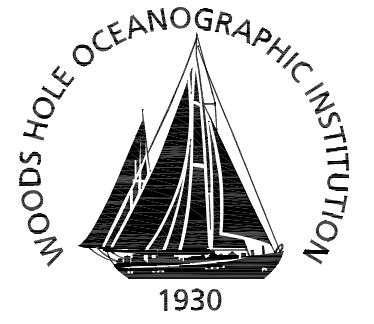
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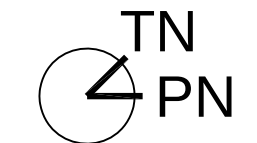
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