



# San Francisco International Airport Terminal 1

Civic Design Review\_Phase III Design Development

May 5, 2017



San Francisco International Airport  
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# SFO T<sub>1</sub> CIVIC DESIGN REVIEW

PHASE III DESIGN DEVELOPMENT

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8. GLARE ANALYSIS
9. TERMINAL VESTIBULE EXPRESSION
10. CONSTRUCTION DETAILS

## AIRSIDE DRAWINGS

## CDRC comments & response from April 24, 2017

Comments from CDRC : Fritted glazing should extend to the bridge portal, and fading it along the curve past the point of solar gain is encouraged.

Response : Frit pattern has been extended to provide coverage from the North end to the Bridge Connector as requested

Comments from CDRC : Not the bridge, but the reentrant wall plane metal panels adjacent to the bridge connecting T1 to the International Terminal. We encourage the design team to look at a simplified panelization patterning.

Response : after careful consideration, the landside facade is designed as composition of elements reflecting the “forest pattern” interpretation. This pattern has been simplified, and occurs at the South entry, Bridge connector, and Concourse C facade. The single color metal panel occurs to mark the Airside from the Landside.

Comments from CDRC : Along the upper glazing fascia of the Terminal Landside facade, we encourage the design team to see if the intermediate horizontal mullion cap can be done as a “structurally glazed” horizontal detail, not a capped one.

Response : The Landside Facade glazing is now designed without mullion end caps. Structural glazing details of the system are on sheets 19

Comments from CDRC : Agreed, and encourage the design team to explore other “faux bois” finishes that appear less “plastic” than phenolic panels

Response : Construction details and material selection to appear authentic, See Detail page 14



# 1. CONCEPT



The Building is not a solid object, it's a transparent box offering views and personal connections with the bay area naturalism represented. Warmth of the interior comes through as a simple clear box. You can also see vegetation and natural elements through the glass. The opportunity to enter this enclosed natural environment manifests itself in vestibules carved out of natural materials, creating a sense of a walk-through nature, providing a sense of relaxation and place upon entering the building.



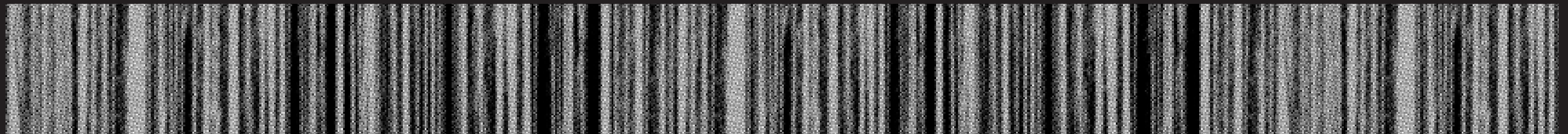
# 2. PROJECT SCOPE



San Francisco International Airport Terminal 1 Renovation

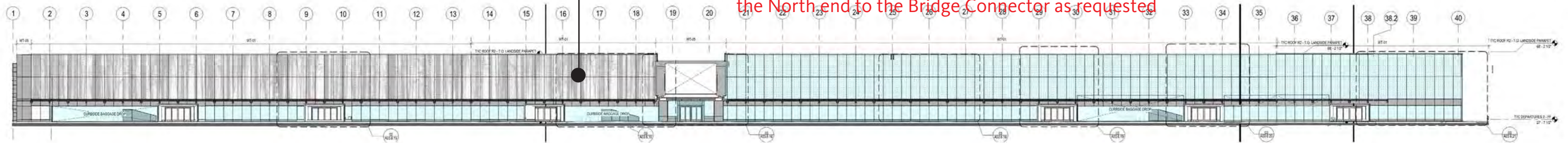


# 3. CREATING A BAY AREA NATURALISM EXPERIENCE: FRITT PATTERN MAKING PROCESS



Comments from CDRC : Fritted glazing should extend to the bridge portal, and fading it along the curve past the point of solar gain is encouraged.

Response : Frit pattern has been extended to provide coverage from the North end to the Bridge Connector as requested





## 4. TERMINAL CURBSIDE VIEW


Comments from CDRC : Not the bridge, but the reentrant wall plane metal panels adjacent to the bridge connecting T1 to the International Terminal. We encourage the design team to look at a simplified panelization patterning.

Response : after careful consideration, the landside facade is designed as composition of elements reflecting the “forest pattern” interpretation. This pattern has been simplified, and occurs at the South entry, Bridge connector, and Concourse C facade. The single color metal panel occurs to mark the Airside from the Landside.





# 5. TERMINAL CURBSIDE EXPRESSION



Comments from CDRC : Along the upper glazing fascia of the Terminal Landside facade, we encourage the design team to see if the intermediate horizontal mullion cap can be done as a “structurally glazed” horizontal detail, not a capped one.

Response : The Landside Facade glazing is now designed without mullion end caps. Structural glazing details of the system are on sheets 19



# 6. BRIDGE CONNECTOR EXPRESSION



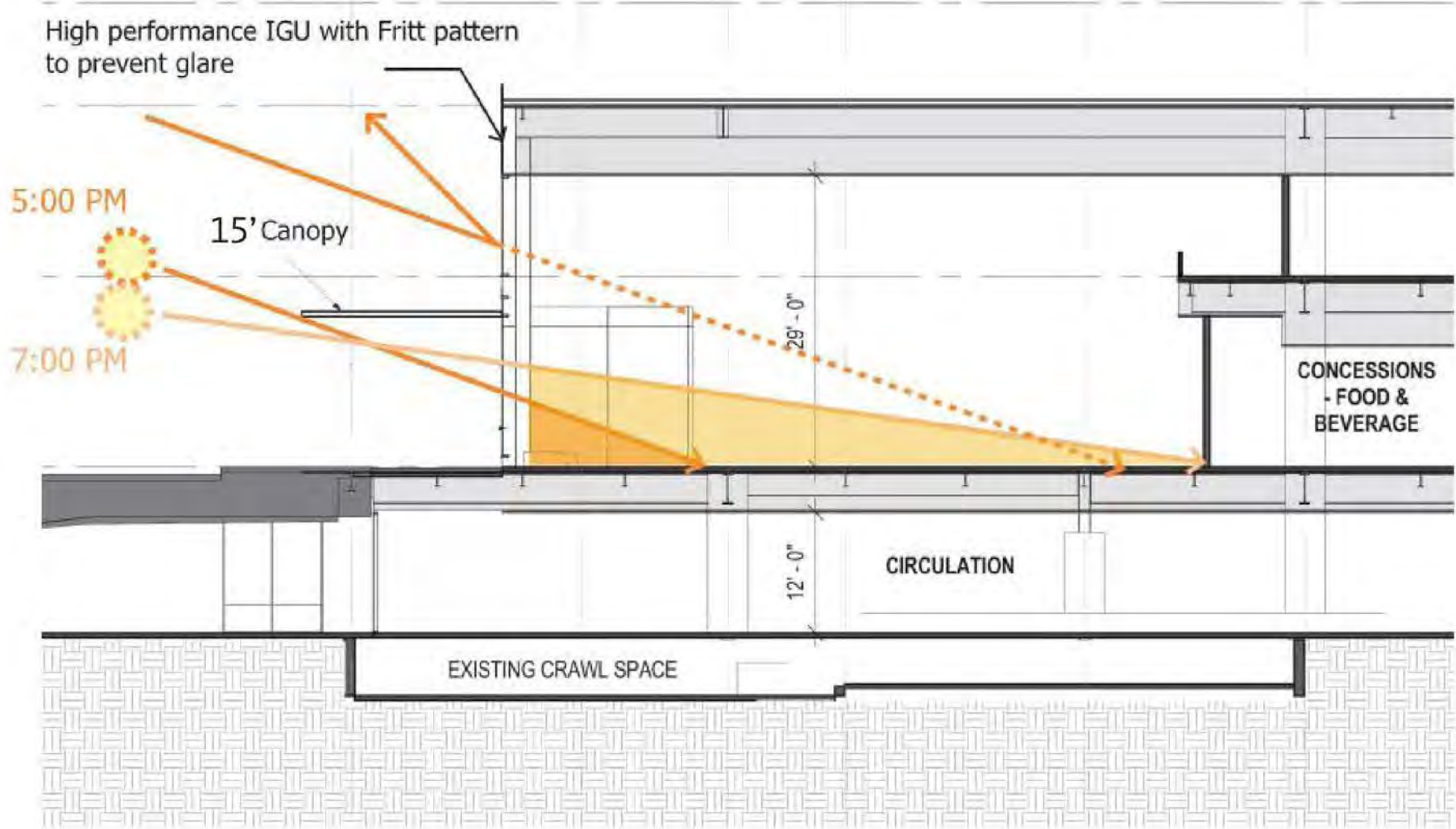


# 7. SOUTH EAST CORNER EXPRESSION

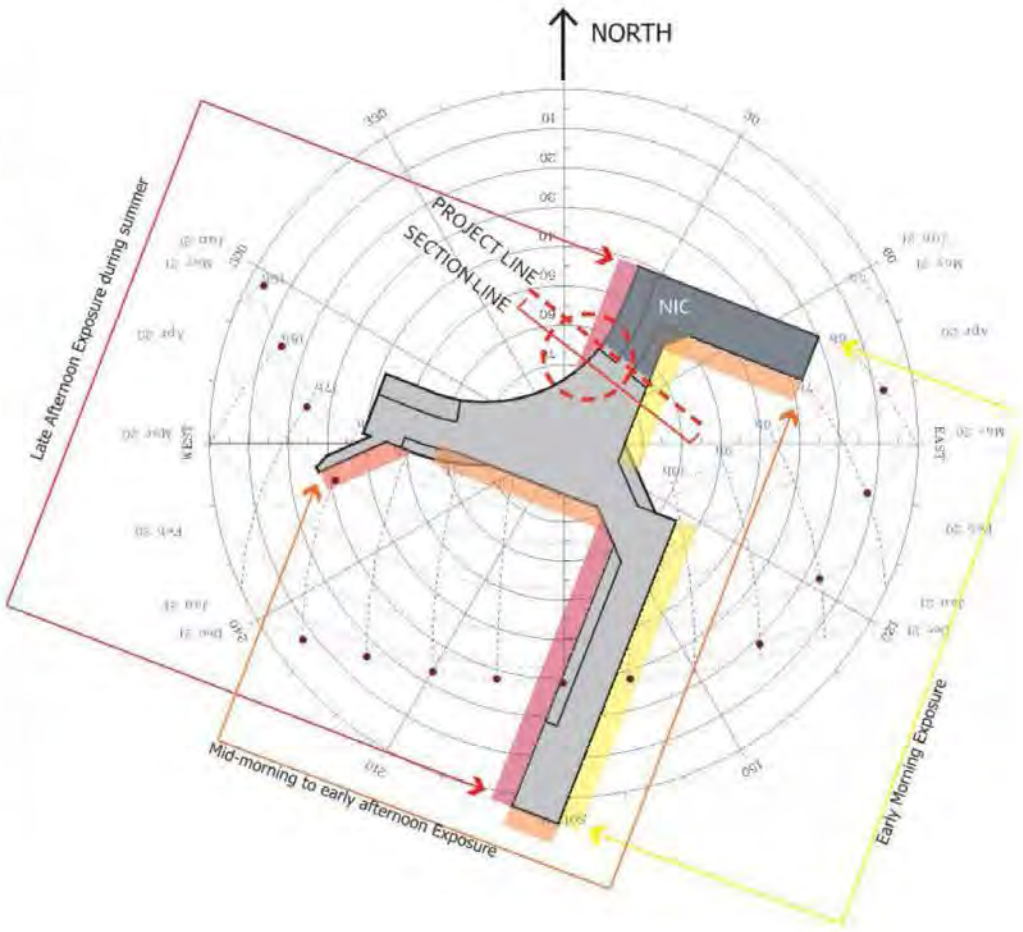




# 8. GLARE ANALYSIS



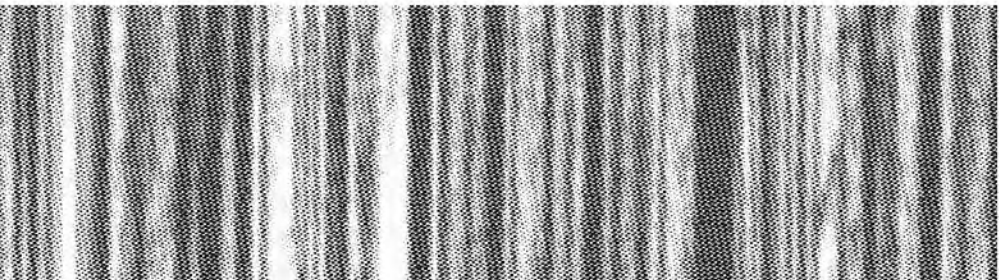
T1 Departure Hall Section  
Late Afternoon Glare On Summer Days



+



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# 9. TERMINAL VESTIBULE EXPRESSION

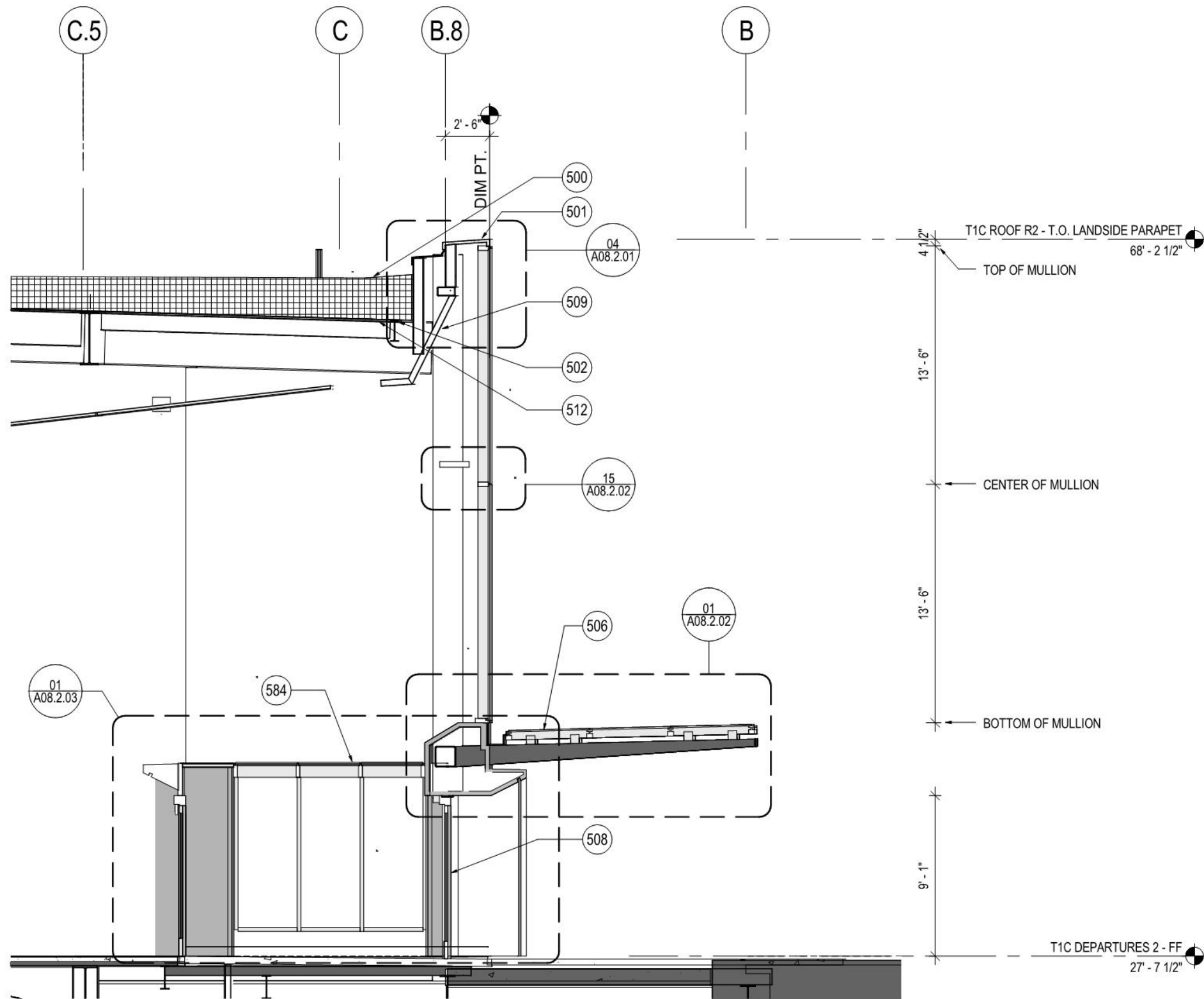
Comments from CDRC : Agreed, and encourage the design team to explore other “faux bois” finishes that appear less “plastic” than phenolic panels

Response : Construction details and material selection to appear authentic, See Detail page 14





# 10. CONSTRUCTION DRAWINGS (EXTERIOR DEPARTURES)

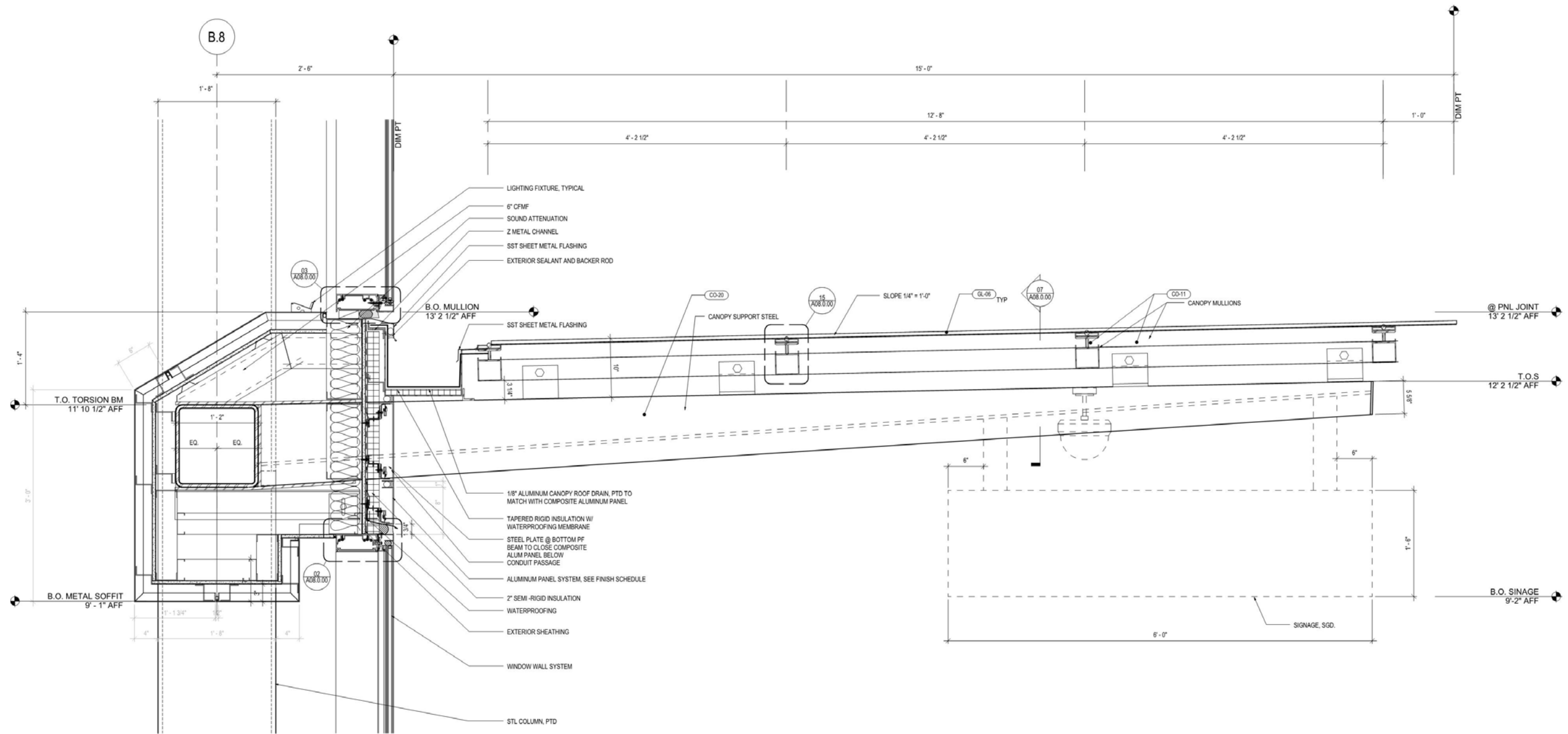








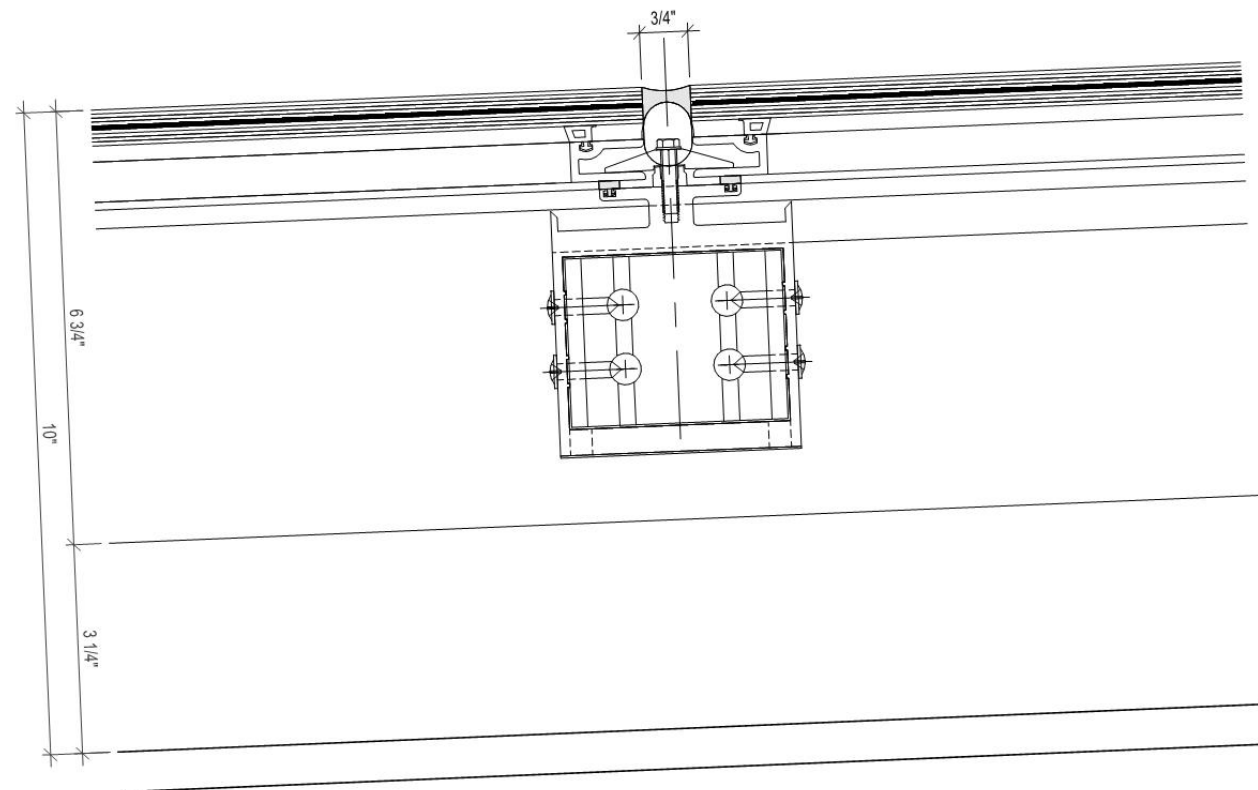
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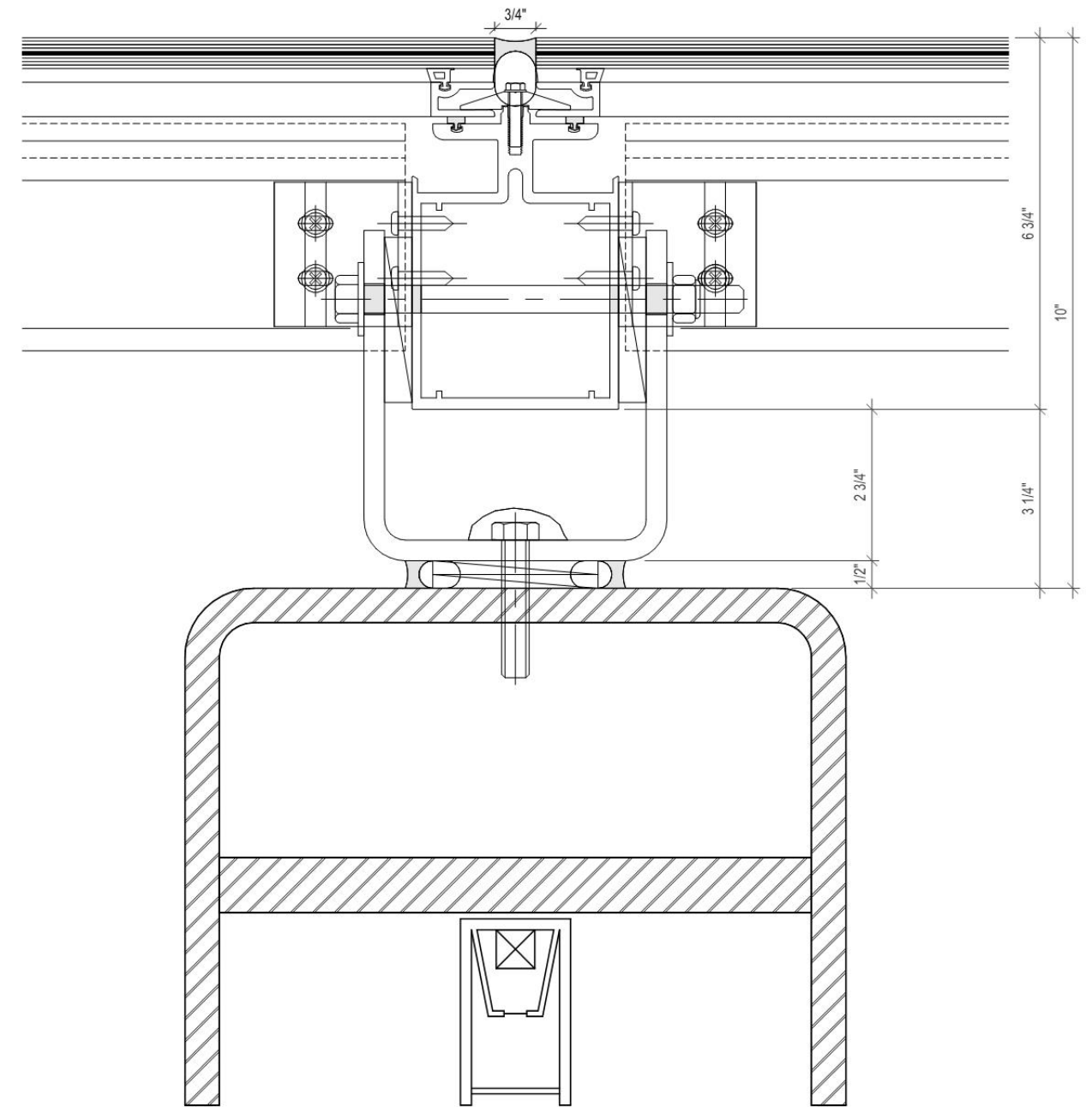
LANDSIDE CANOPY DETAIL @ CANOPY BEAM CONNECTION - 1/4" SLOPE



# 10. CONSTRUCTION DRAWINGS (EXTERIOR DEPARTURES)



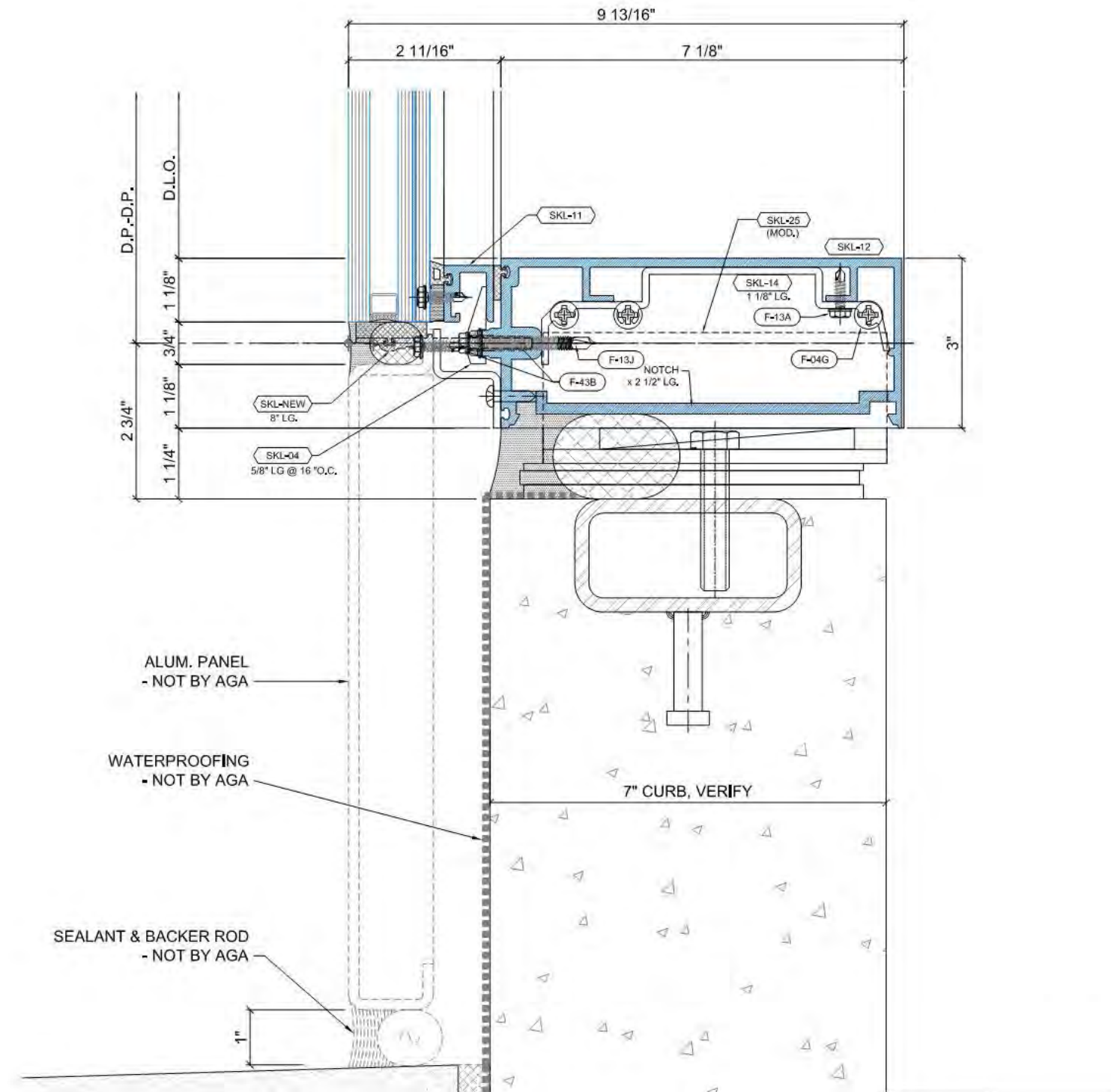
MULLION - CANOPY - WT-06 - PURLIN



MULLION - CANOPY - WT-06 - RAFTER



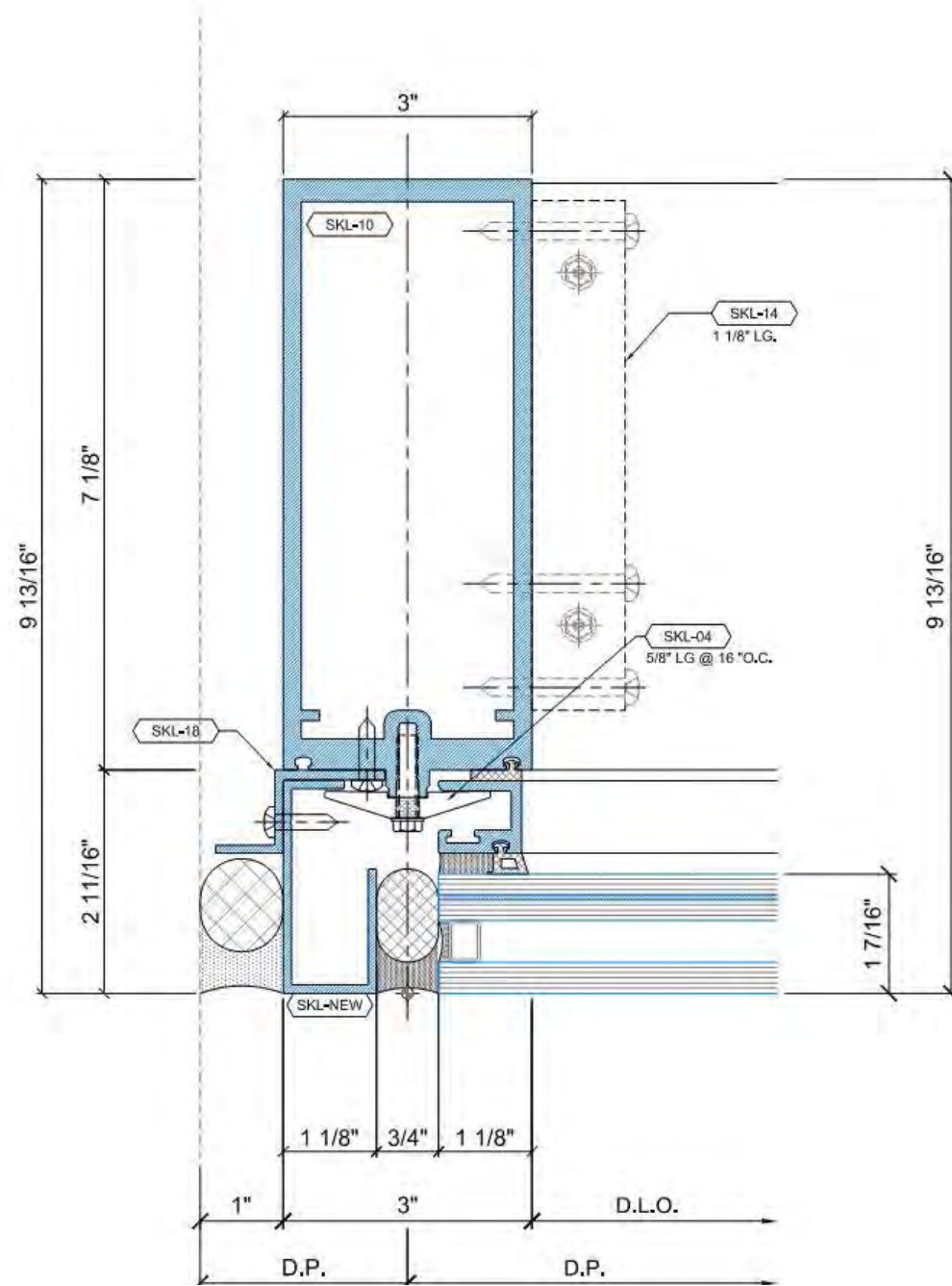
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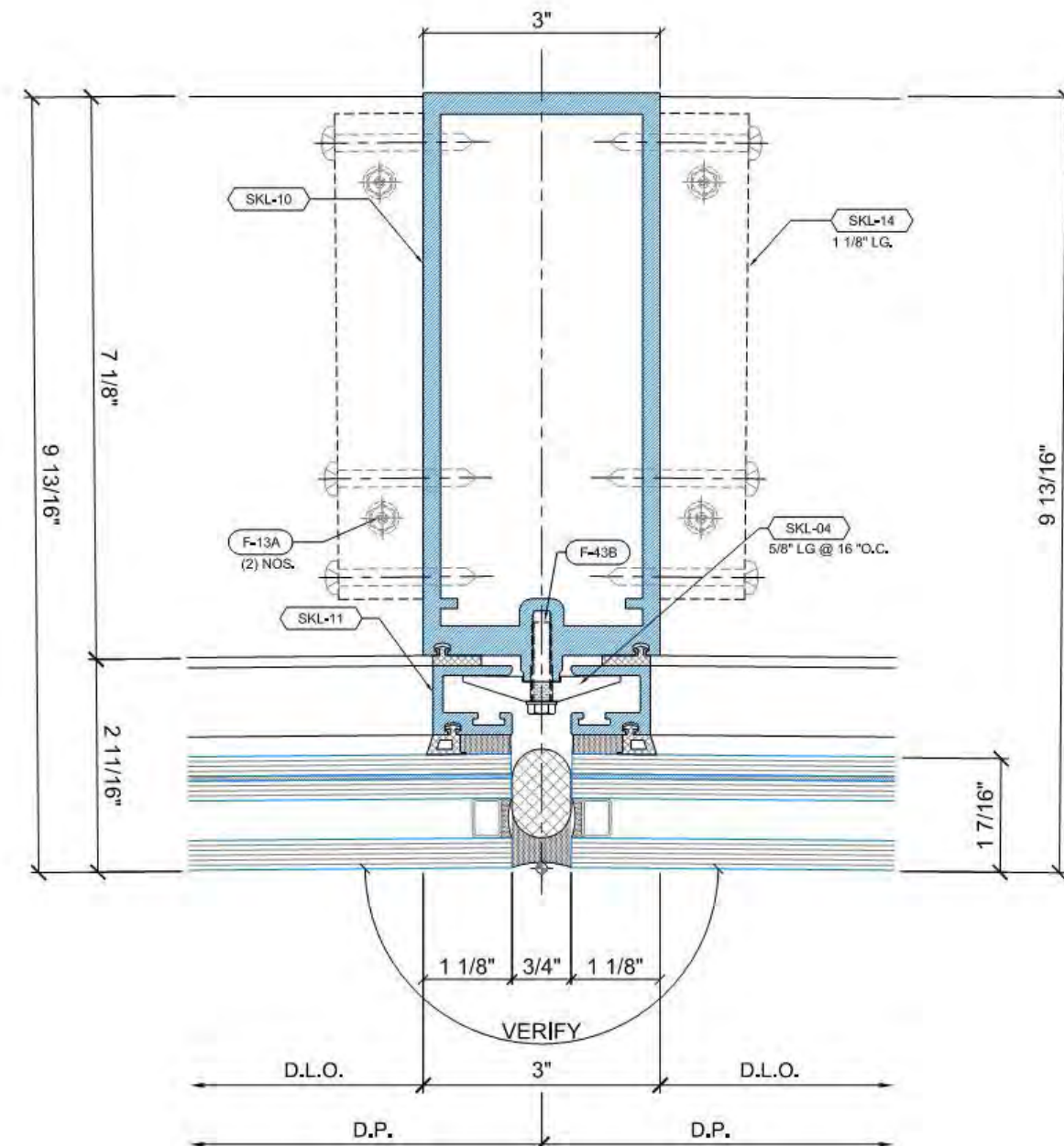
WINDOW SILL (LANDSIDE DEPARTURES)



# 10. CONSTRUCTION DRAWINGS (EXTERIOR DEPARTURES)



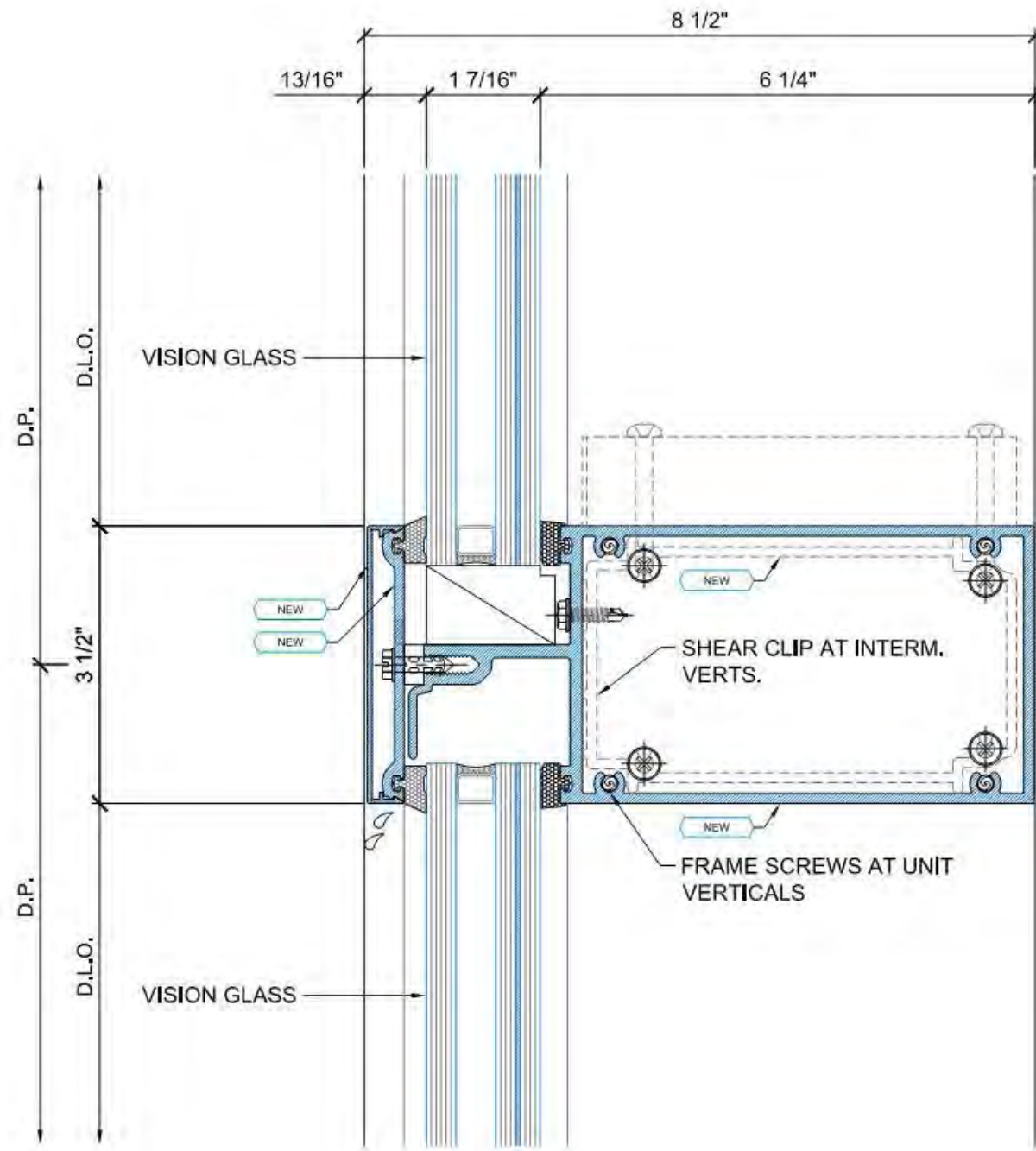
WINDOW JAMB (LANDSIDE DEPARTURES)



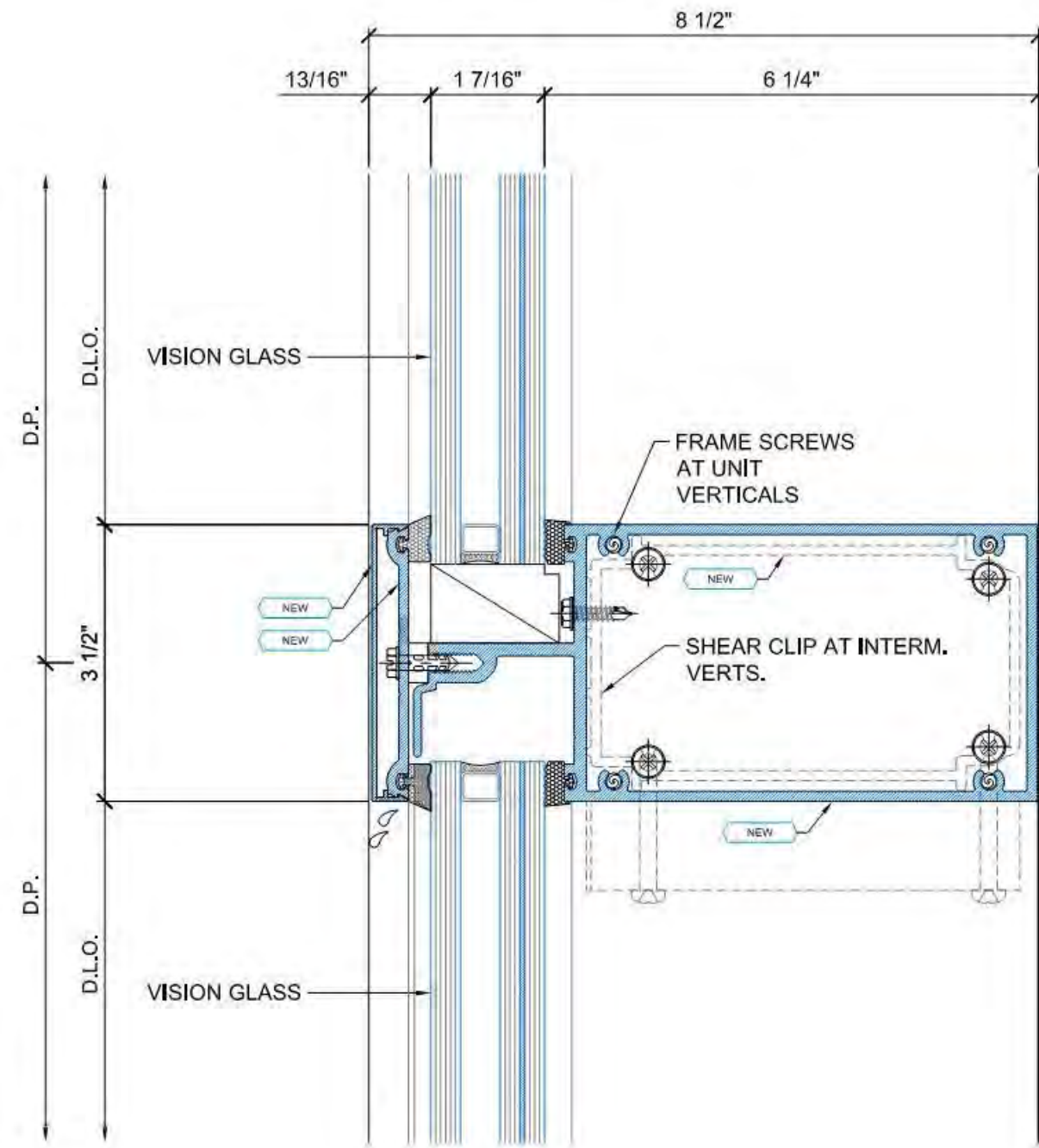
WINDOW VERTICAL (LANDSIDE DEPARTURES)



# 10. CONSTRUCTION DRAWINGS (EXTERIOR DEPARTURES)



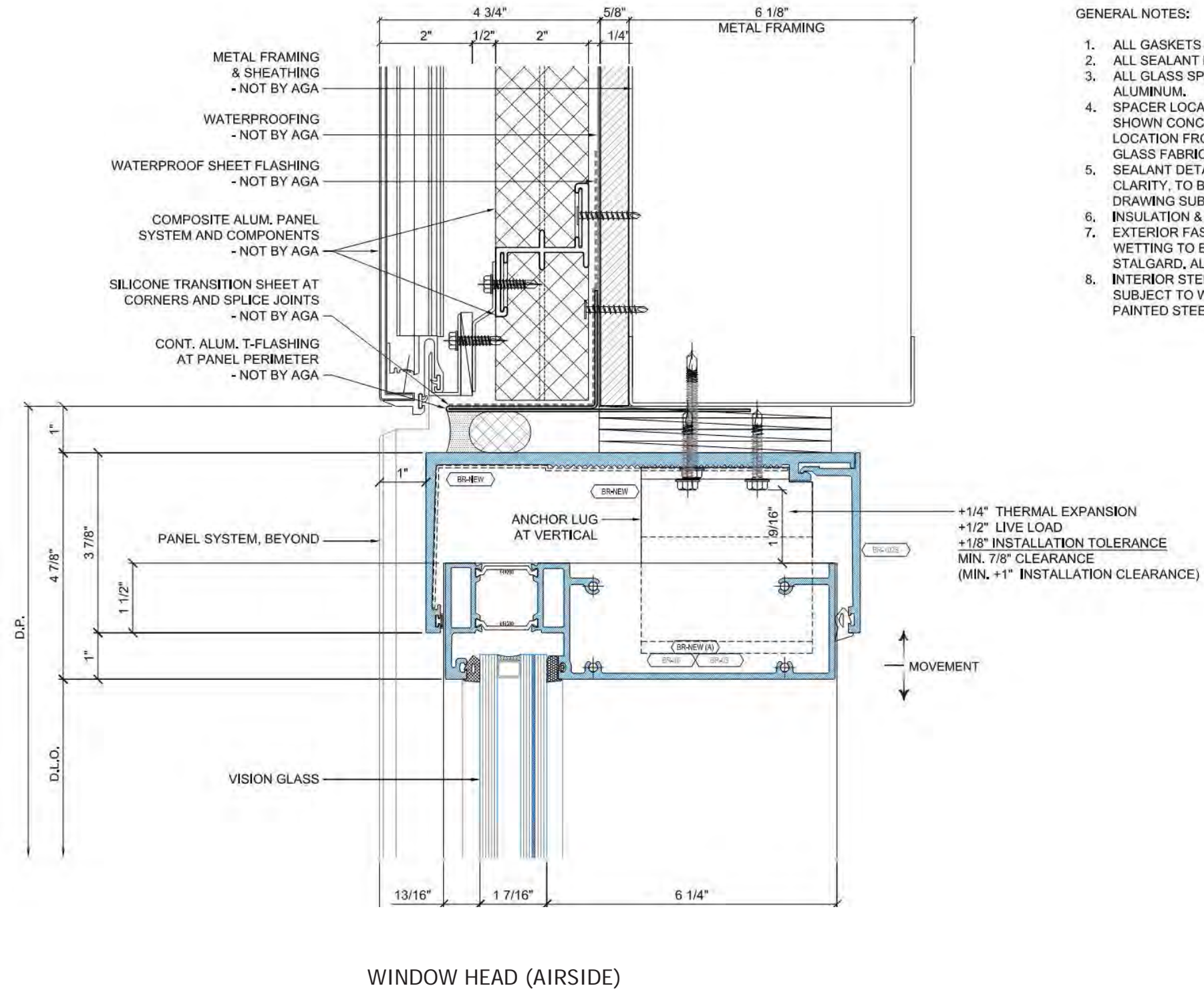
WINDOW HORIZONTAL, INTERM.VERT. AT TOP (LANDSIDE ARRIVAL)



WINDOW HORIZONTAL, INTERM.VERT. AT BOTTOM (LANDSIDE ARRIVAL)

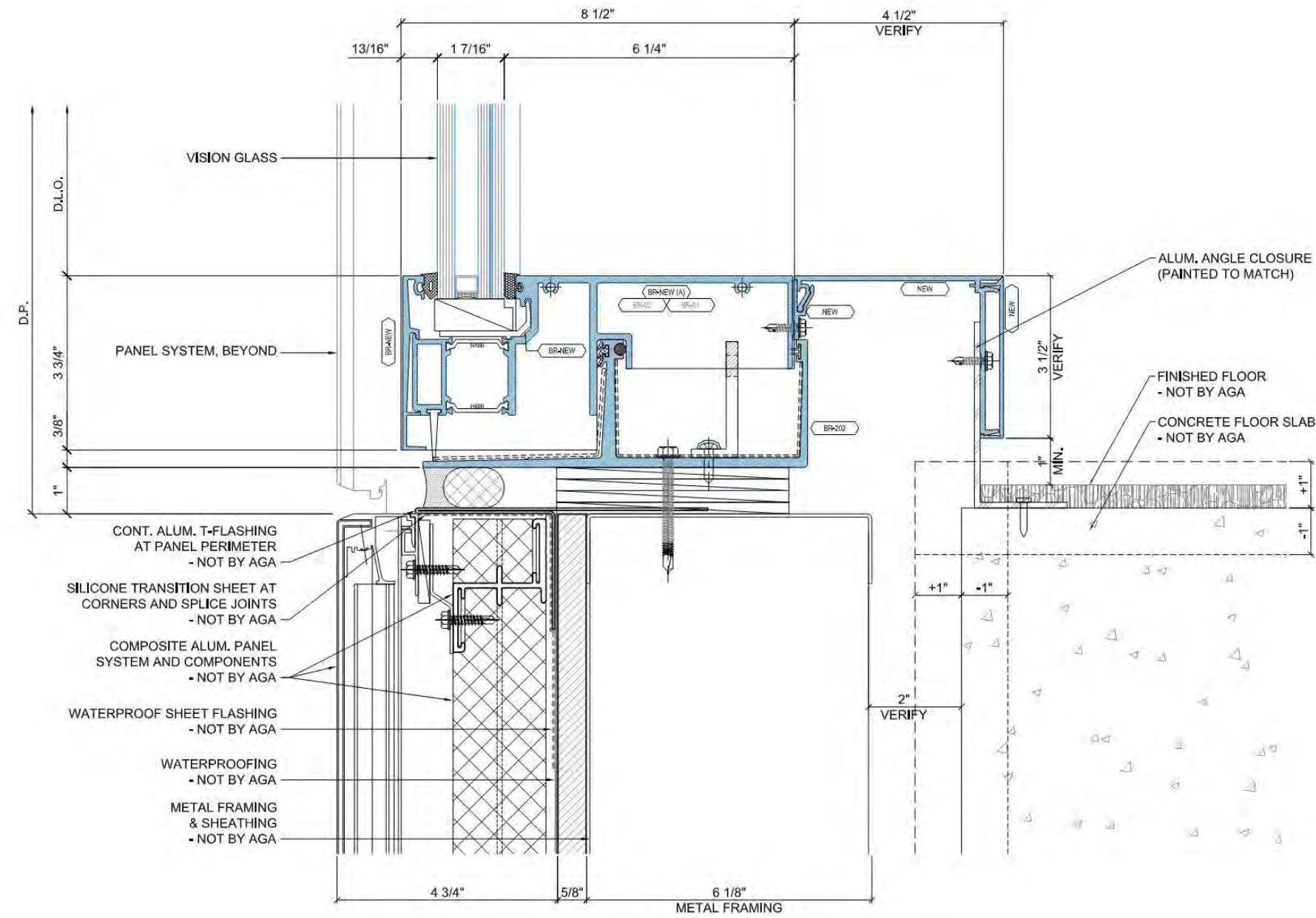


# 10. CONSTRUCTION DRAWINGS (EXTERIOR DEPARTURES)





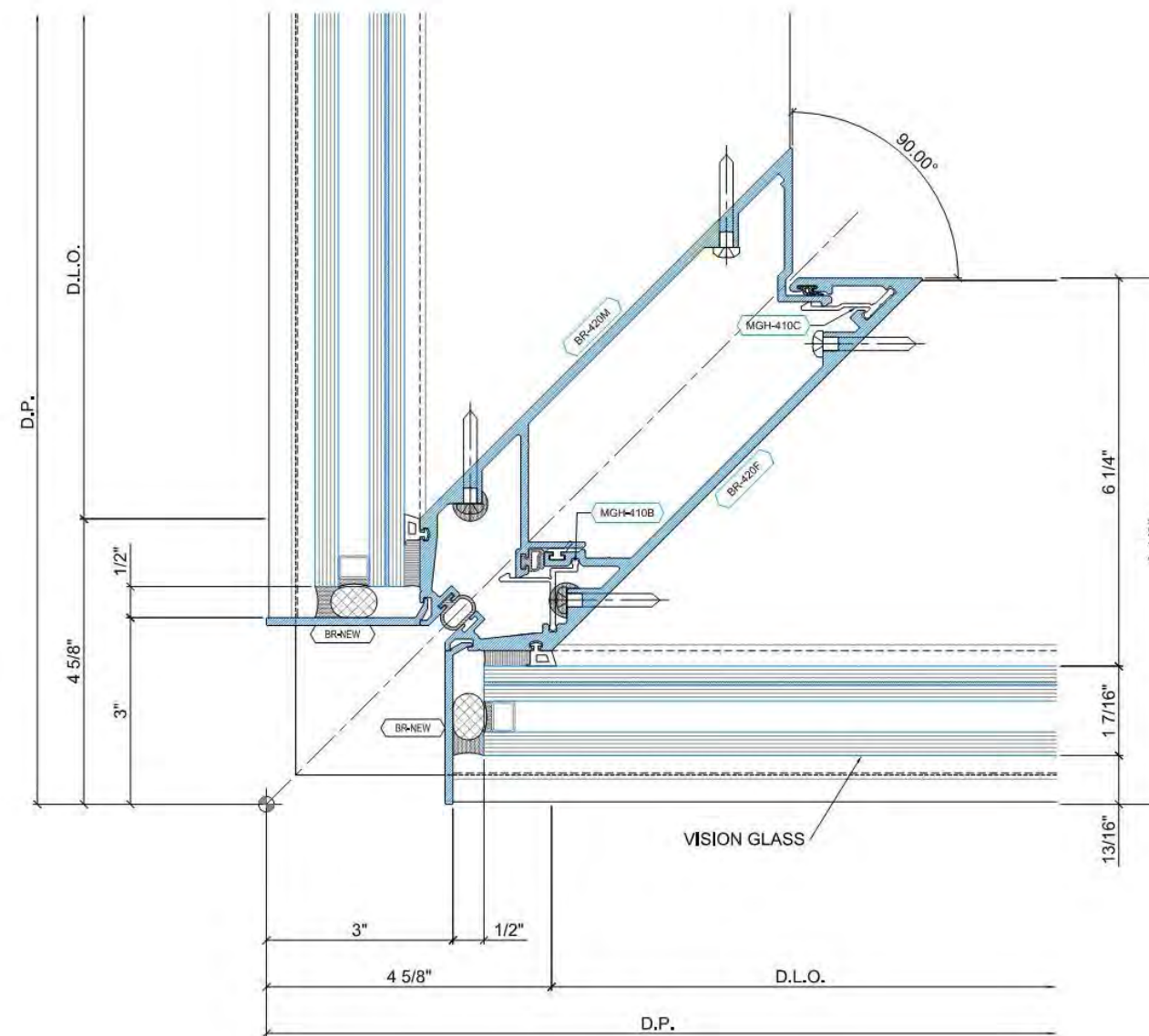
# 10. CONSTRUCTION DRAWINGS (EXTERIOR DEPARTURES)



WINDOW SILL (AIRSIDE)



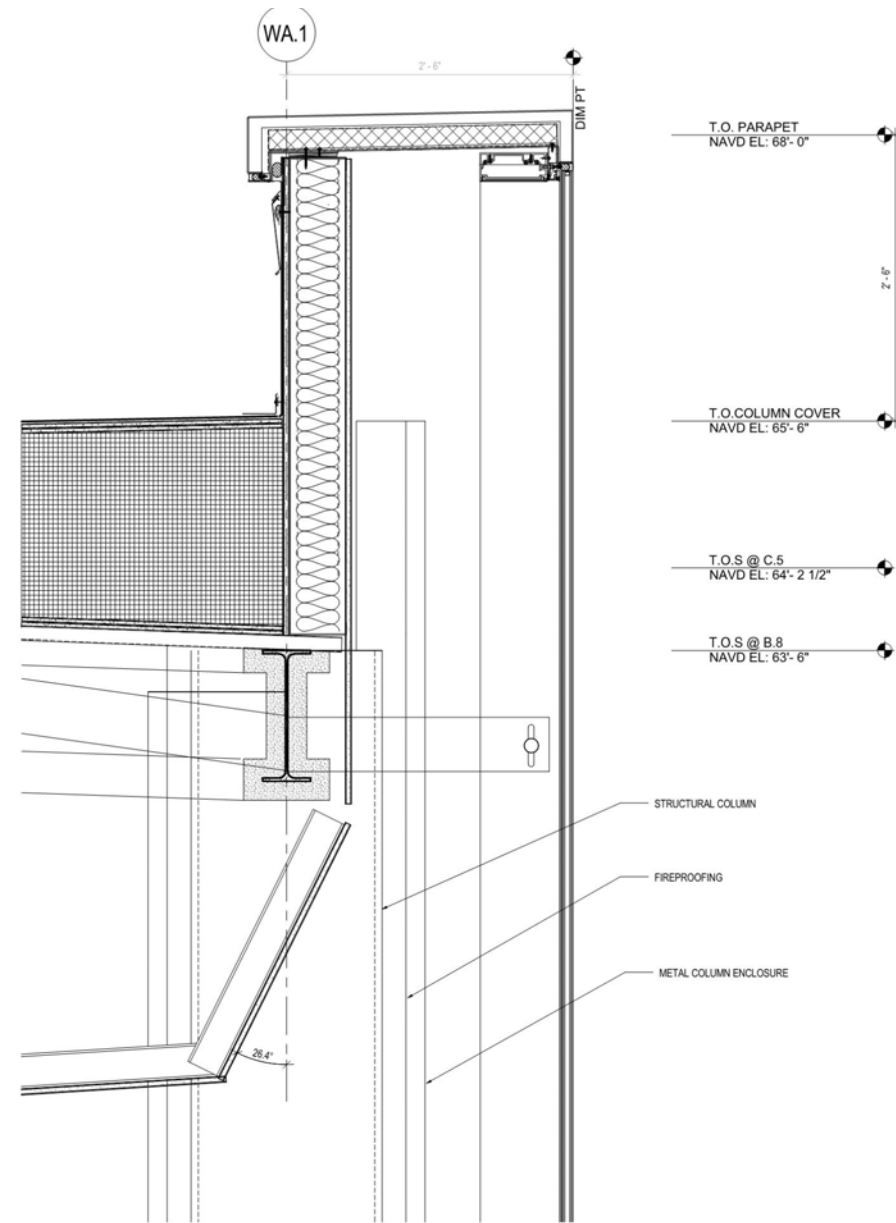
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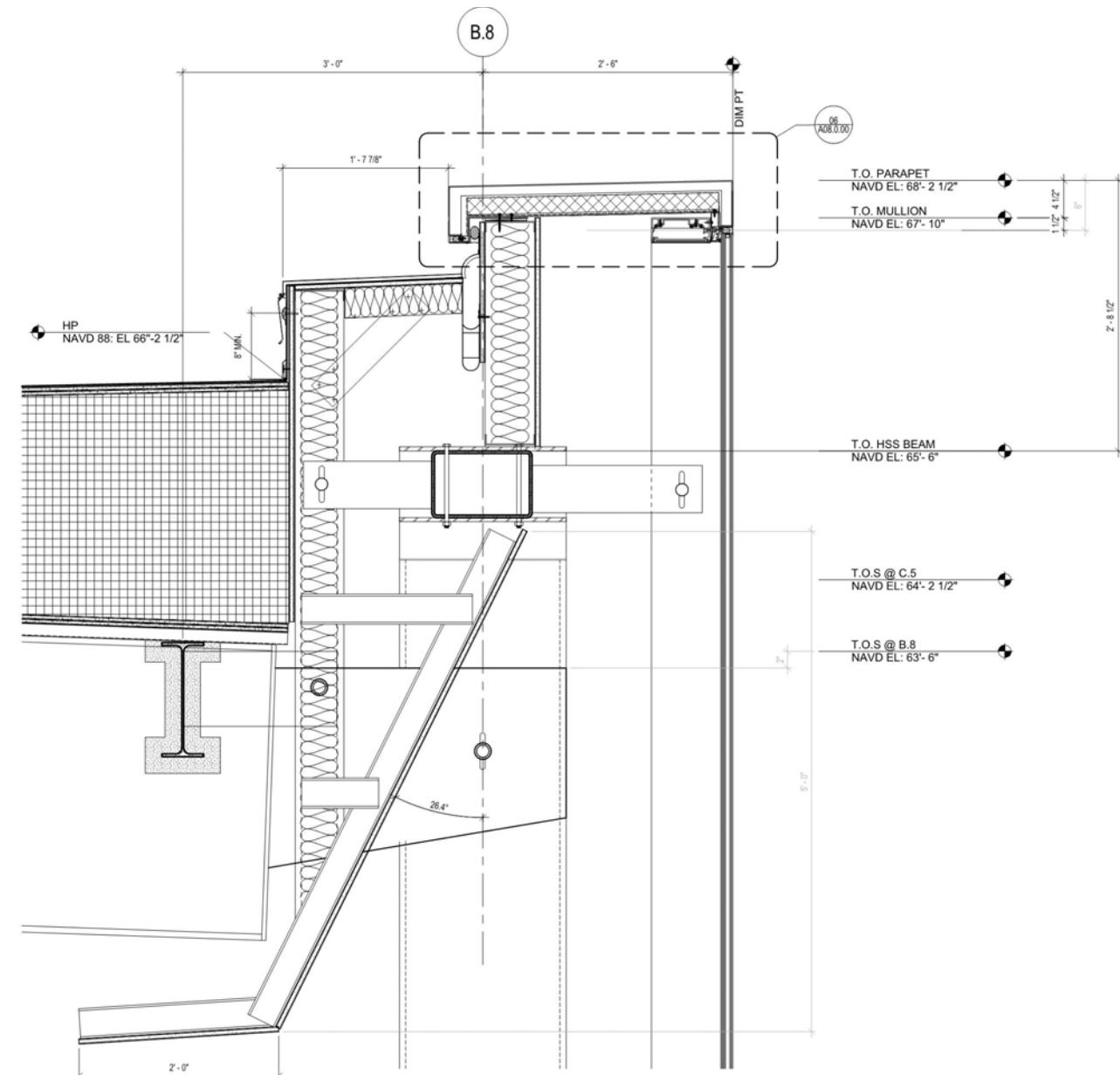
90 DEGREE WINDOW CORNER (AIRSIDE)



# 10. CONSTRUCTION DRAWINGS (EXTERIOR DEPARTURES)



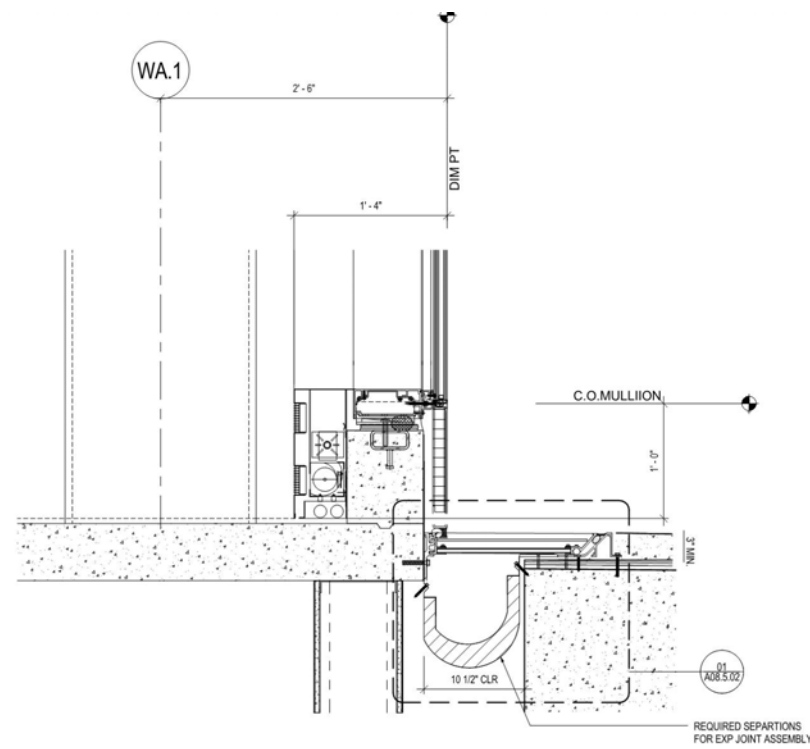
PARAPET DETAIL AT LANDSIDE, T1S MOD



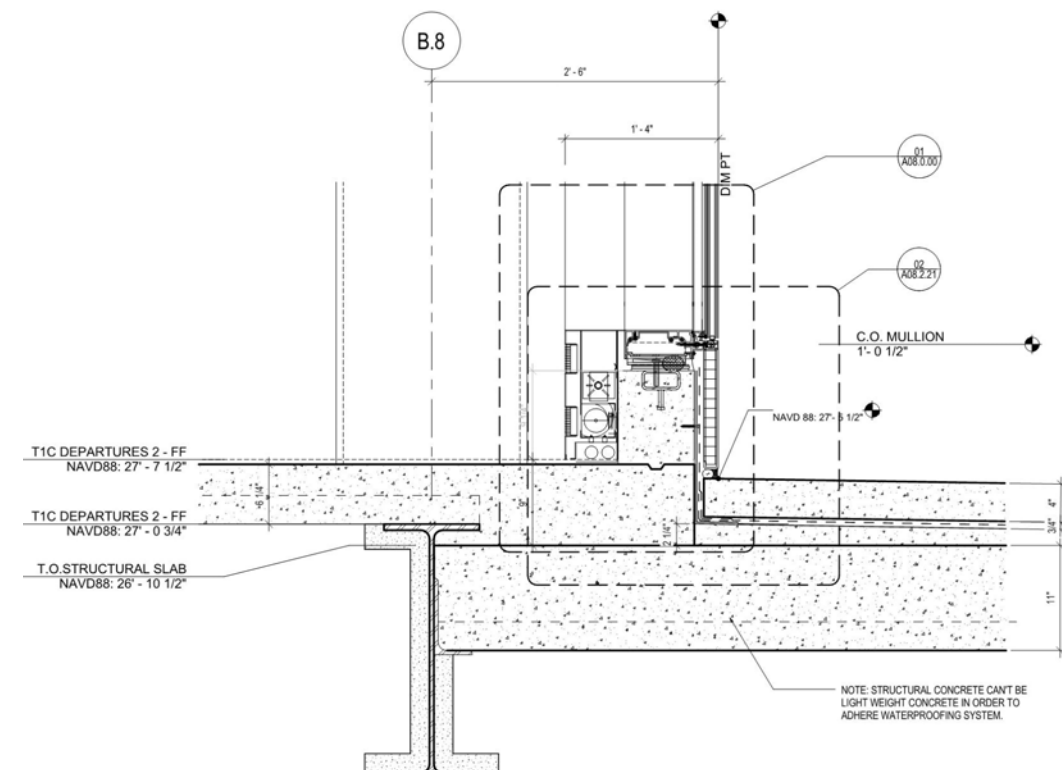
LANDSIDE PARAPET, TYPICAL



# 10. CONSTRUCTION DRAWINGS (EXTERIOR DEPARTURES)



LANDSIDE BASE OF WALL DETAIL - GL WA.1



LANDSIDE BASE OF WALL DETAIL



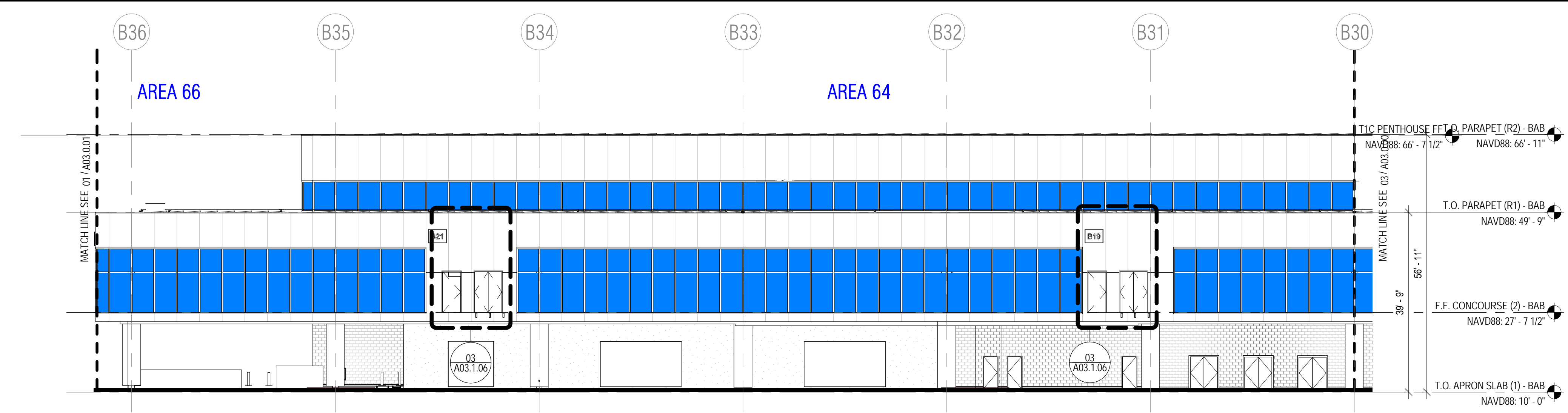
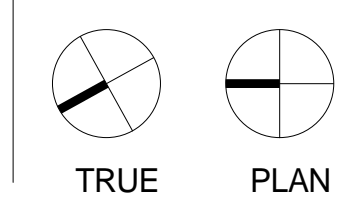
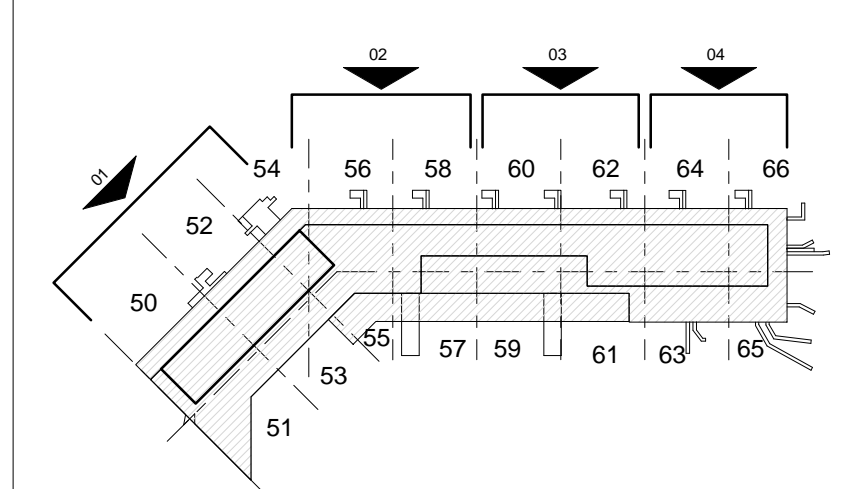
**SHEET NOTES**

**GENERAL NOTES**

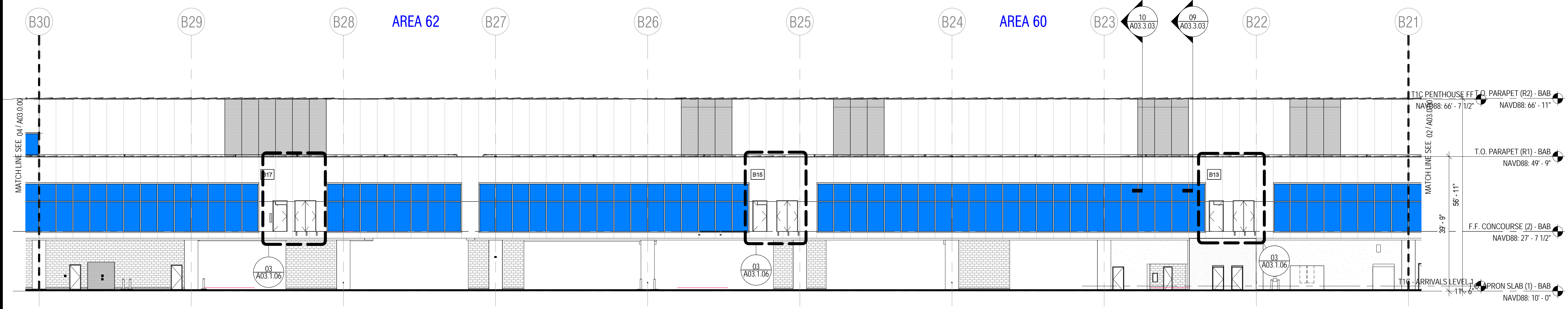
1. REFER TO THE A02.1 SERIES DRAWINGS FOR APRON LEVEL PLANS
2. REFER TO THE A02.2 SERIES DRAWINGS FOR CONCOURSE LEVEL PLANS
3. REFER TO THE A02.2M SERIES DRAWINGS FOR MEZZANINE LEVEL PLANS
4. REFER TO THE A03.0 SERIES DRAWINGS FOR EXTERIOR ELEVATIONS
5. REFER TO THE A03.2 SERIES DRAWINGS FOR BUILDING SECTIONS
6. REFER TO THE A03.3 SERIES DRAWINGS FOR WALL SECTIONS
7. REFER TO THE A04.7 SERIES DRAWINGS FOR WALL SECTIONS
8. REFER TO THE BB02.1 SERIES DRAWINGS FOR PBB'S

**GRAPHIC LEGEND**

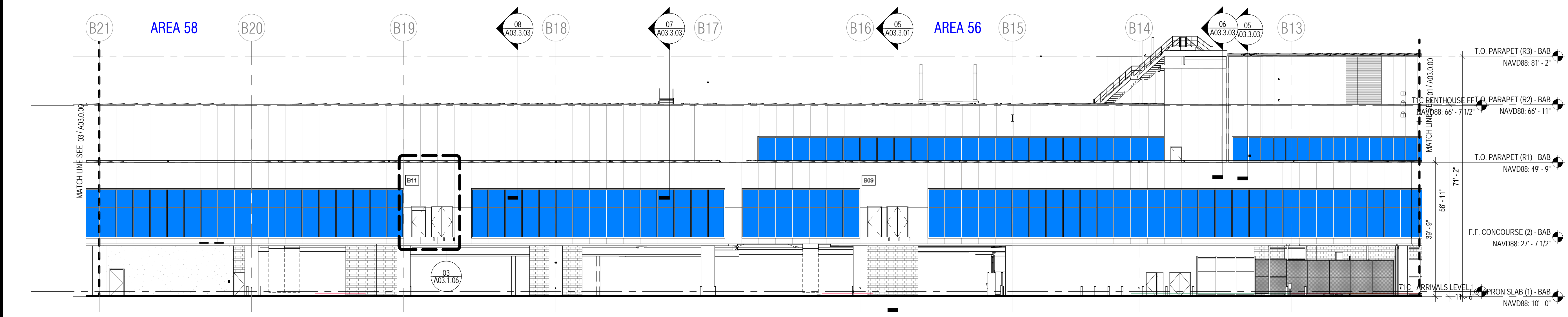
- VG - VISION GLASS
- METAL PANEL (AMF-01)
- METAL LOUVER (AMF-01)
- CONCRETE MASONRY UNIT WITH TAC-01 FINISH
- CONCRETE WITH TAC-01 FINISH
- GALV. CHAIN LINK FENCE



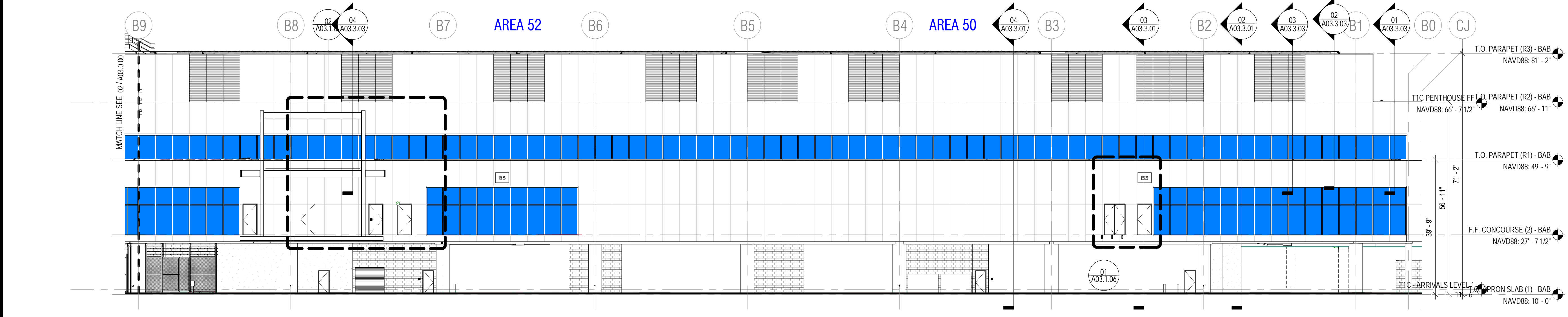
**EXTERIOR EAST PARTIAL ELEVATION (AREA 62, 64 & 66)** 04  
SCALE: 1/16" = 1'-0"



**EXTERIOR EAST PARTIAL ELEVATION (AREA 58 & 60)** 03  
SCALE: 1/16" = 1'-0"



**EXTERIOR EAST PARTIAL ELEVATION (AREA 56 & 58)** 02  
SCALE: 1/16" = 1'-0"



**EXTERIOR NORTH-EAST ELEVATION** 01  
SCALE: 1/16" = 1'-0"

CONTRACT NO. 10010.66

PROJECT TITLE: TERMINAL 1 REDEVELOPMENT. BOARDING AREA B

SAN FRANCISCO INTERNATIONAL AIRPORT

SHEET TITLE: EXTERIOR BUILDING ELEVATIONS

ARCHITECT / ENGINEER SEAL

**REFERENCE ONLY NOT FOR CONSTRUCTION**

ISSUE	DATE	DESCRIPTION
Z	MAR 24, 2017	ISSUE Z
L	DEC 09, 2016	ISSUE L
J	NOV 30, 2016	ISSUE J
C	OCT 12, 2016	ISSUE C
B	SEPT 30, 2016	BID PACKAGE #3
A	SEPT 2, 2016	100% DESIGN DEVELOPMENT

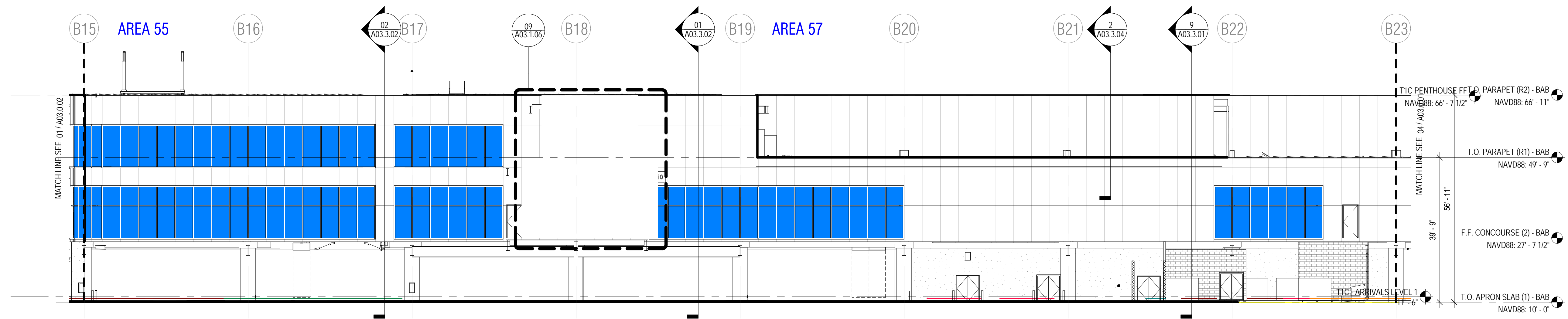
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As indicated	

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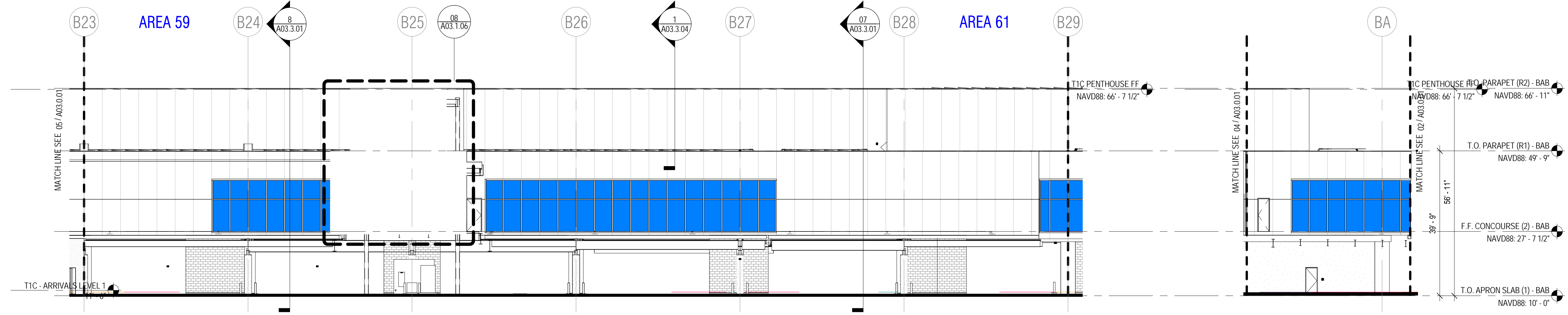
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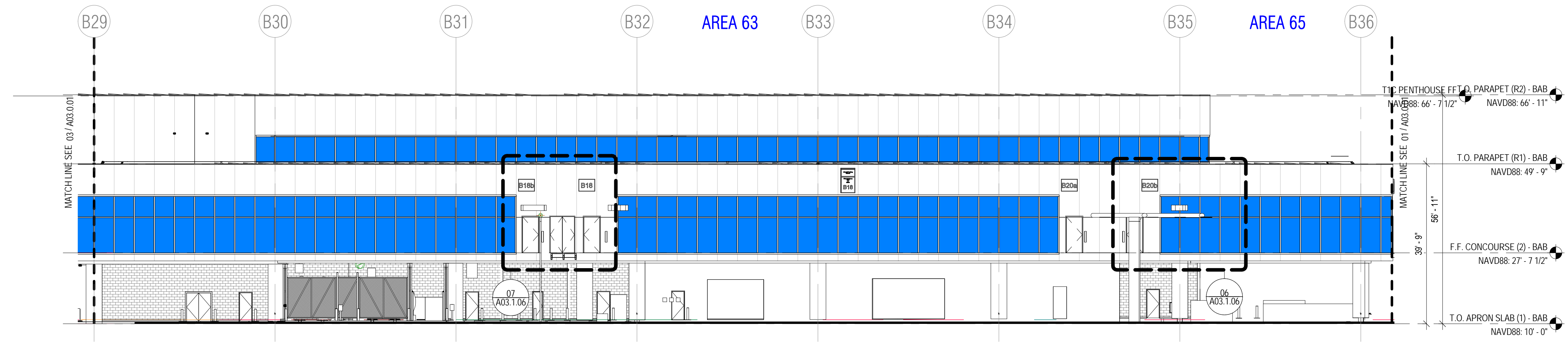


EXTERIOR WEST PARTIAL ELEVATION (AREA 55 & 57) 05  
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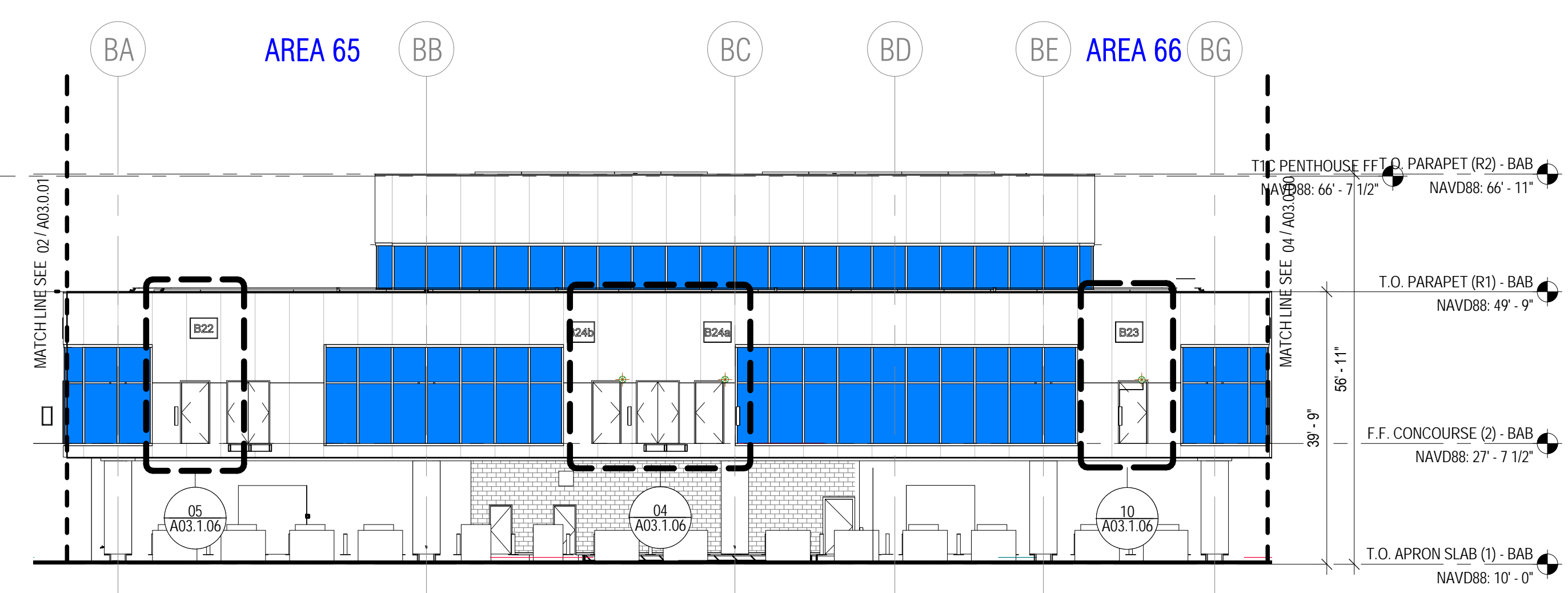


EXTERIOR WEST PARTIAL ELEVATION (AREA 59 & 61) 04  
SCALE: 1/16" = 1'-0"

EXTERIOR NORTH PARTIAL ELEVATION (AREA 61) 03  
SCALE: 1/16" = 1'-0"



EXTERIOR WEST PARTIAL ELEVATION (AREA 63 & 65) 02  
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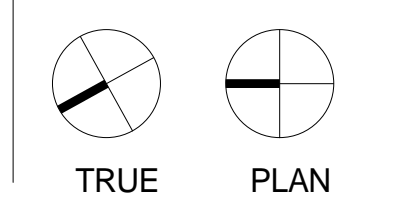
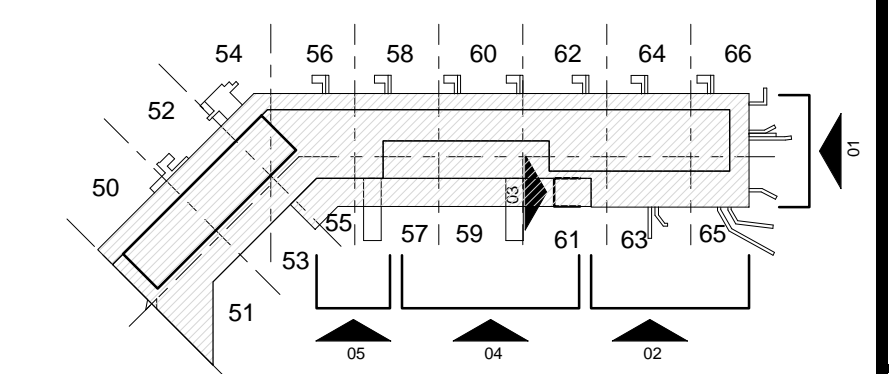
EXTERIOR SOUTH PARTIAL ELEVATION (AREA 65 & 66) 01  
SCALE: 1/16" = 1'-0"

SHEET NOTES

- GENERAL NOTES
1. REFER TO THE A02.1 SERIES DRAWINGS FOR APRON LEVEL PLANS
  2. REFER TO THE A02.2 SERIES DRAWINGS FOR CONCOURSE LEVEL PLANS
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GRAPHIC LEGEND

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- CONCRETE MASONRY UNIT WITH TAC-01 FINISH
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- GALV. CHAIN LINK FENCE



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San Francisco CA 94107  
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10010.66  
TERMINAL 1 REDEVELOPMENT.  
BOARDING AREA B  
SAN FRANCISCO INTERNATIONAL AIRPORT  
EXTERIOR BUILDING ELEVATIONS

ISSUE	DATE	DESCRIPTION
Z	MAR 24, 2017	ISSUE Z
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J	NOV 30, 2016	ISSUE J
C	OCT 12, 2016	ISSUE C
B	SEPT 30, 2016	BID PACKAGE #3
A	SEPT 2, 2016	100% DESIGN DEVELOPMENT

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SHEET NOTES

1. REFER TO THE A02.1 SERIES DRAWINGS FOR APRON LEVEL PLANS
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GENERAL NOTES

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- GALV. CHAIN LINK FENCE

10010.66

TERMINAL 1 REDEVELOPMENT.  
BOARDING AREA B  
SAN FRANCISCO INTERNATIONAL AIRPORT

EXTERIOR BUILDING  
ELEVATIONS

CONTRACT NO.  
PROJECT TITLE  
SHEET TITLE

ARCHITECT / ENGINEER SEAL

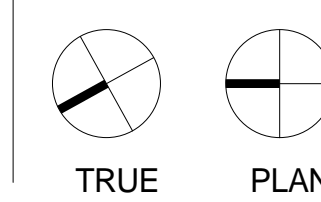
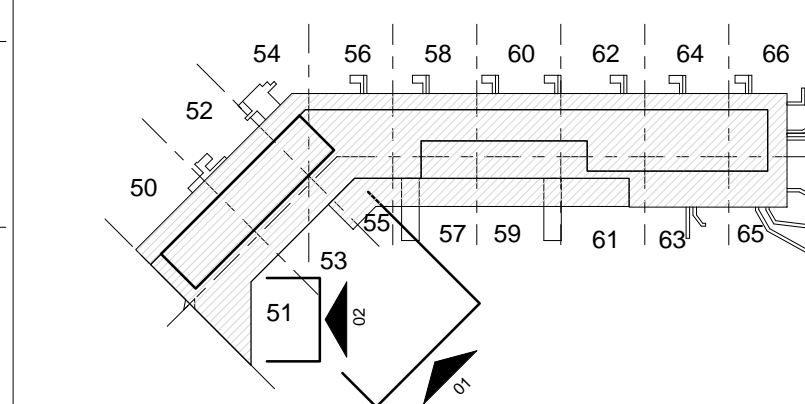
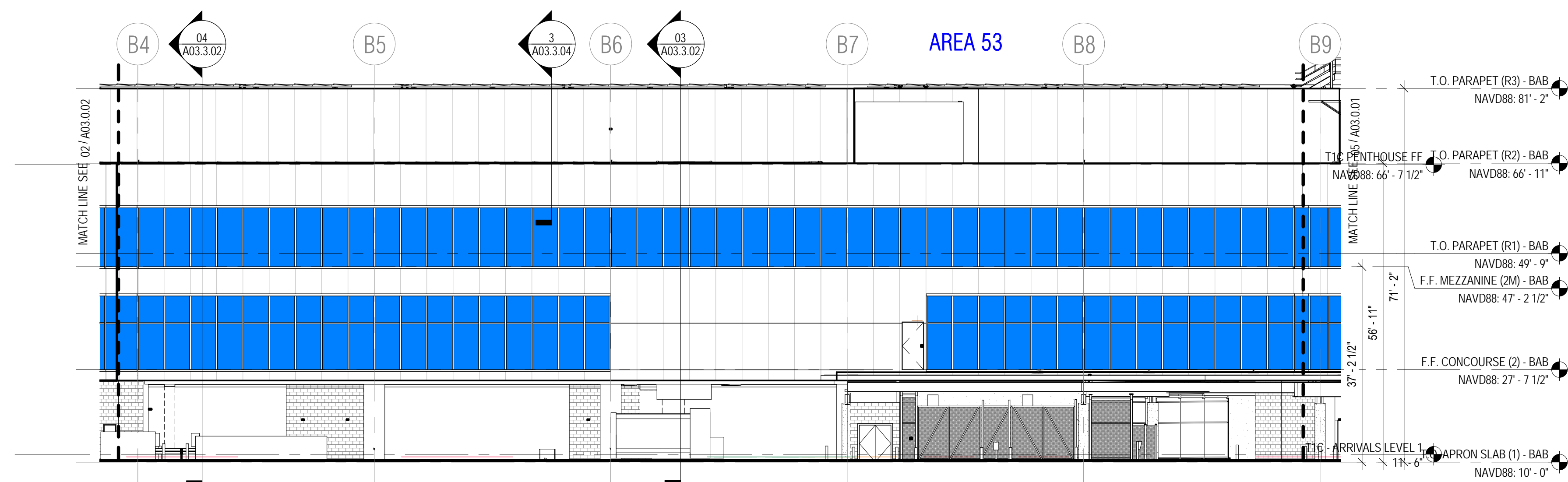
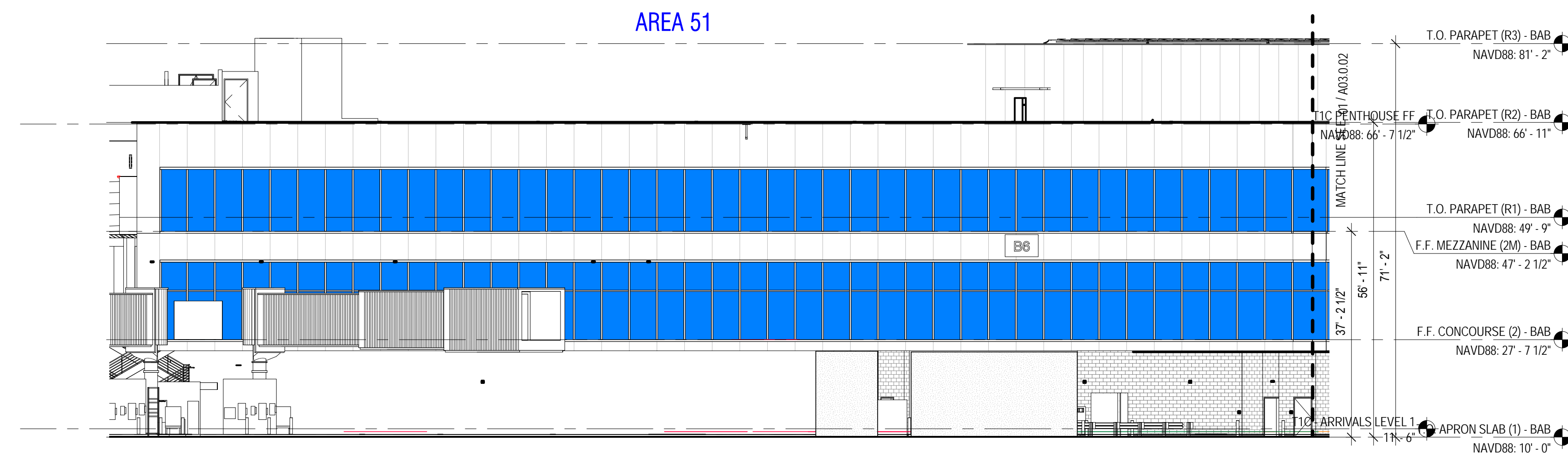
REFERENCE ONLY  
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A	SEPT 2, 2016	100% DESIGN DEVELOPMENT

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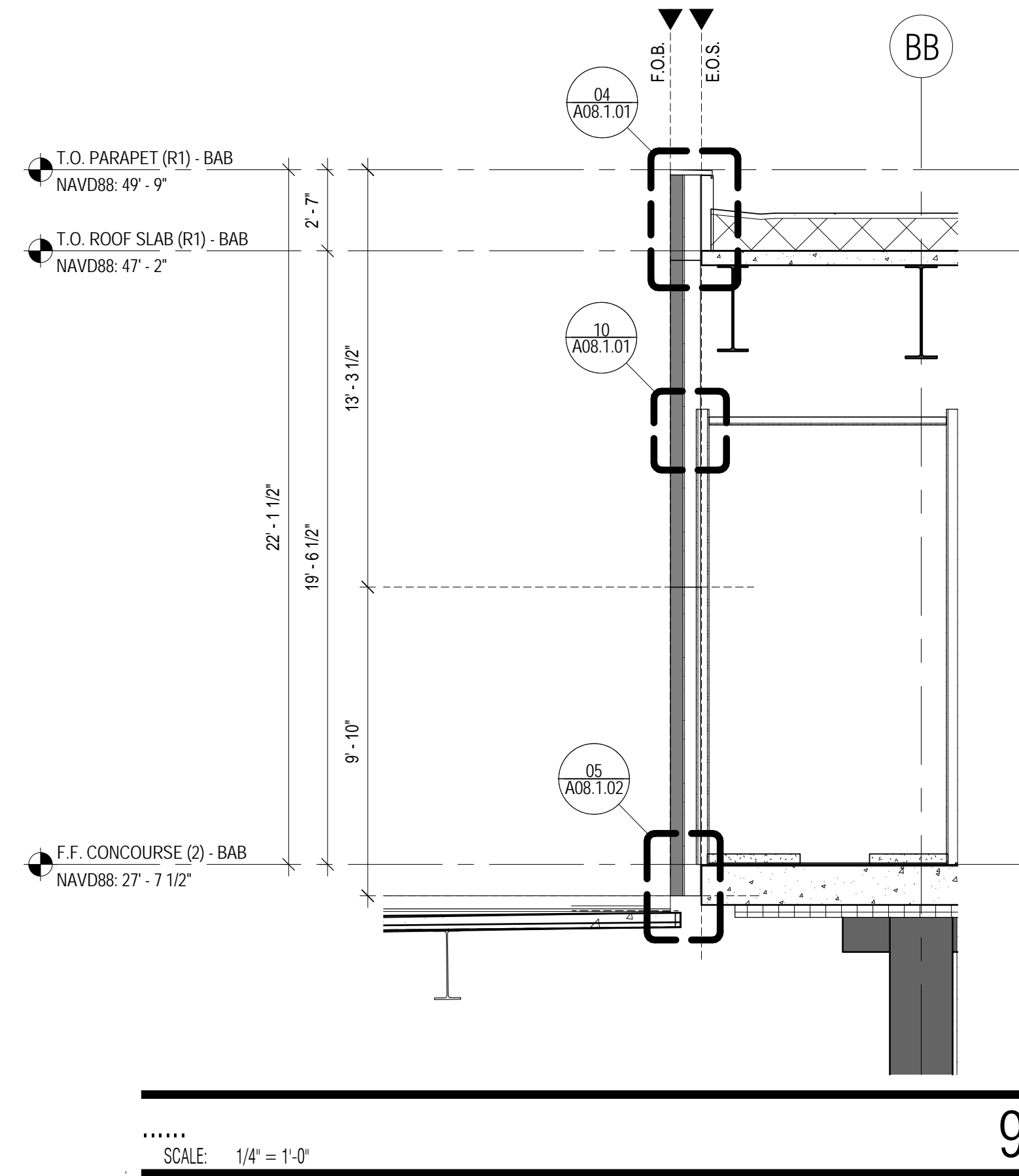
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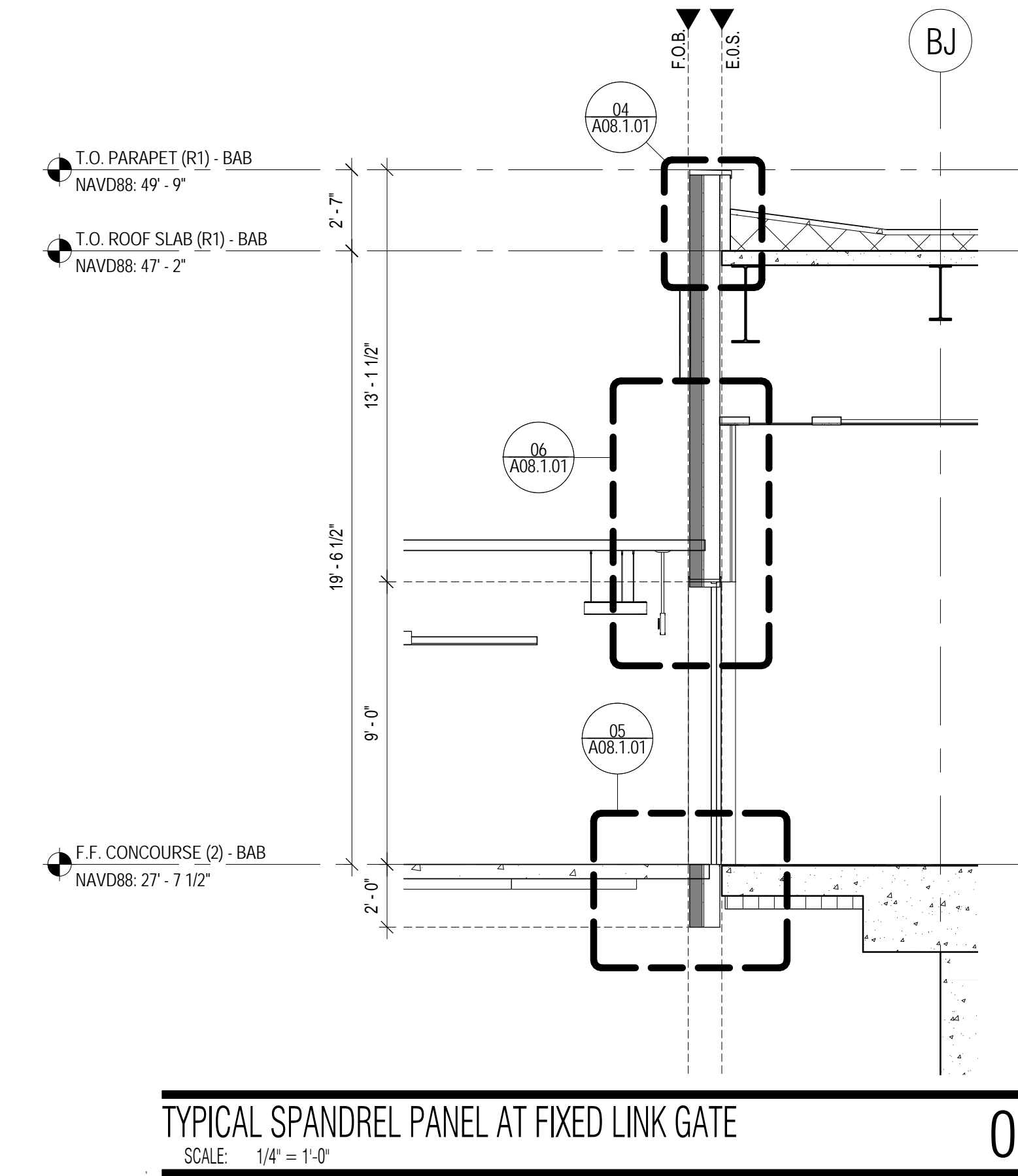
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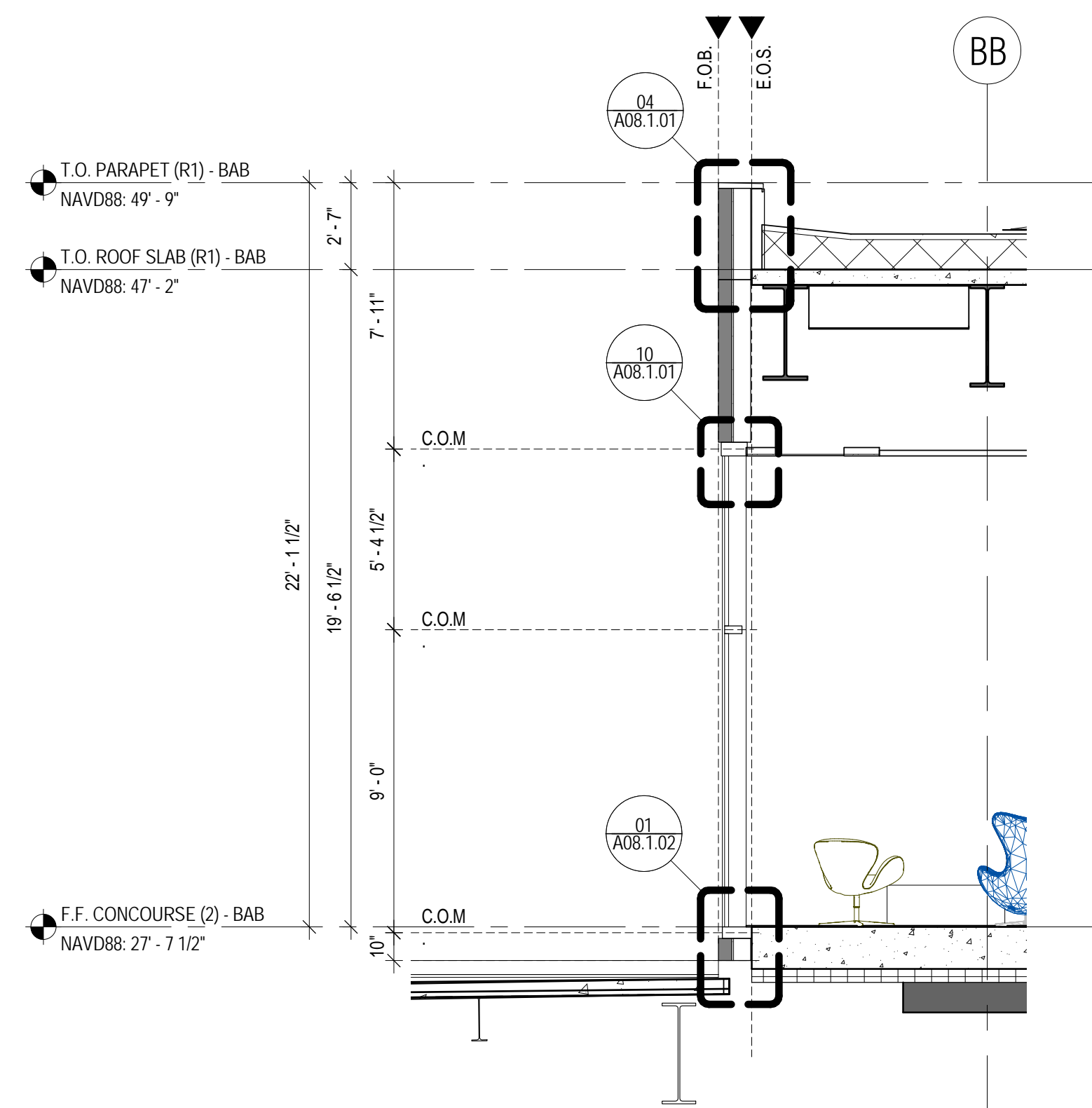
DRAWINGS ARE IN PROGRESS IN RESPONSE TO THE UPDATED AGA BUILDING ENVELOPE SYSTEM



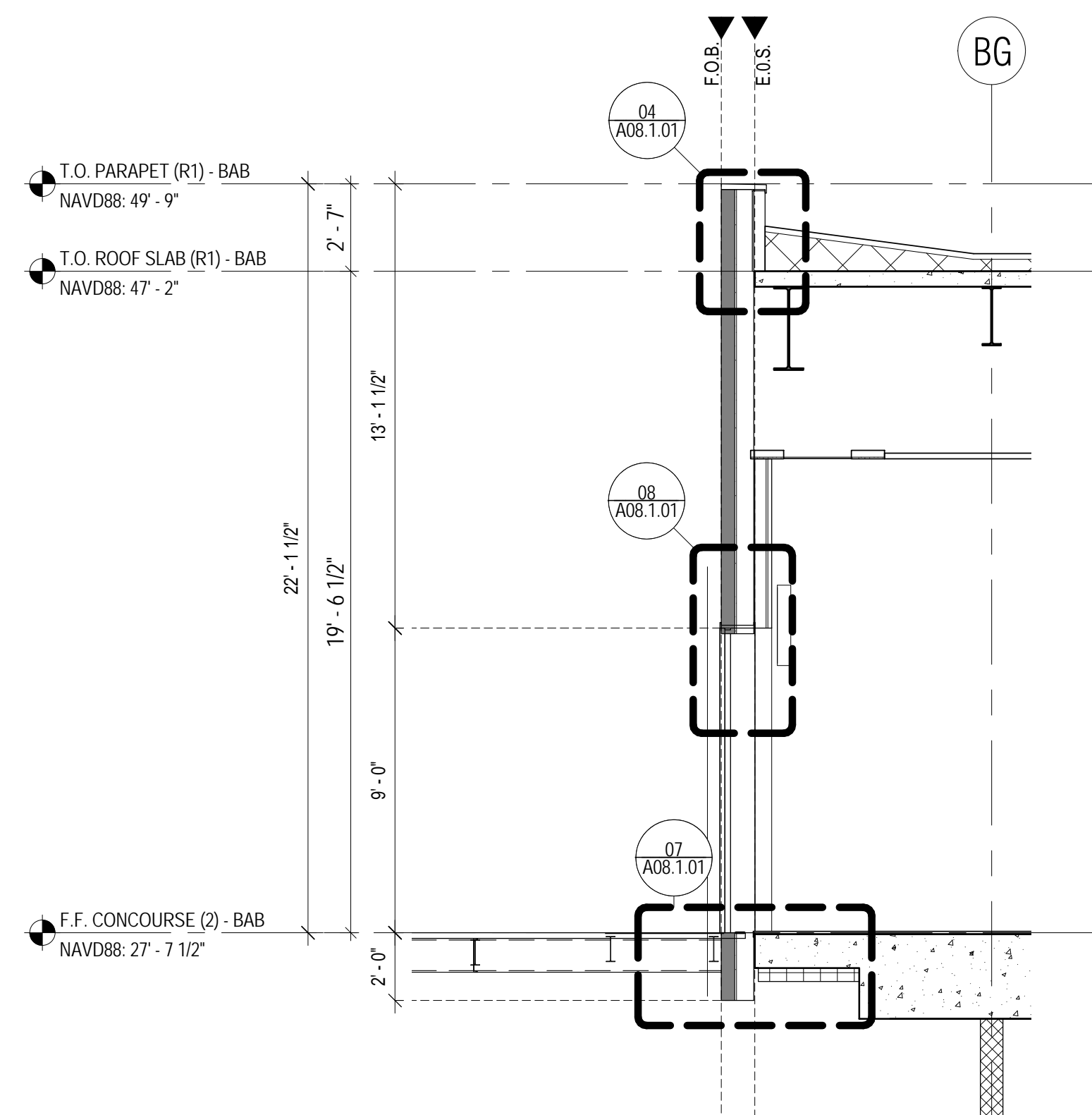
SCALE: 1/4" = 1'-0" **9**



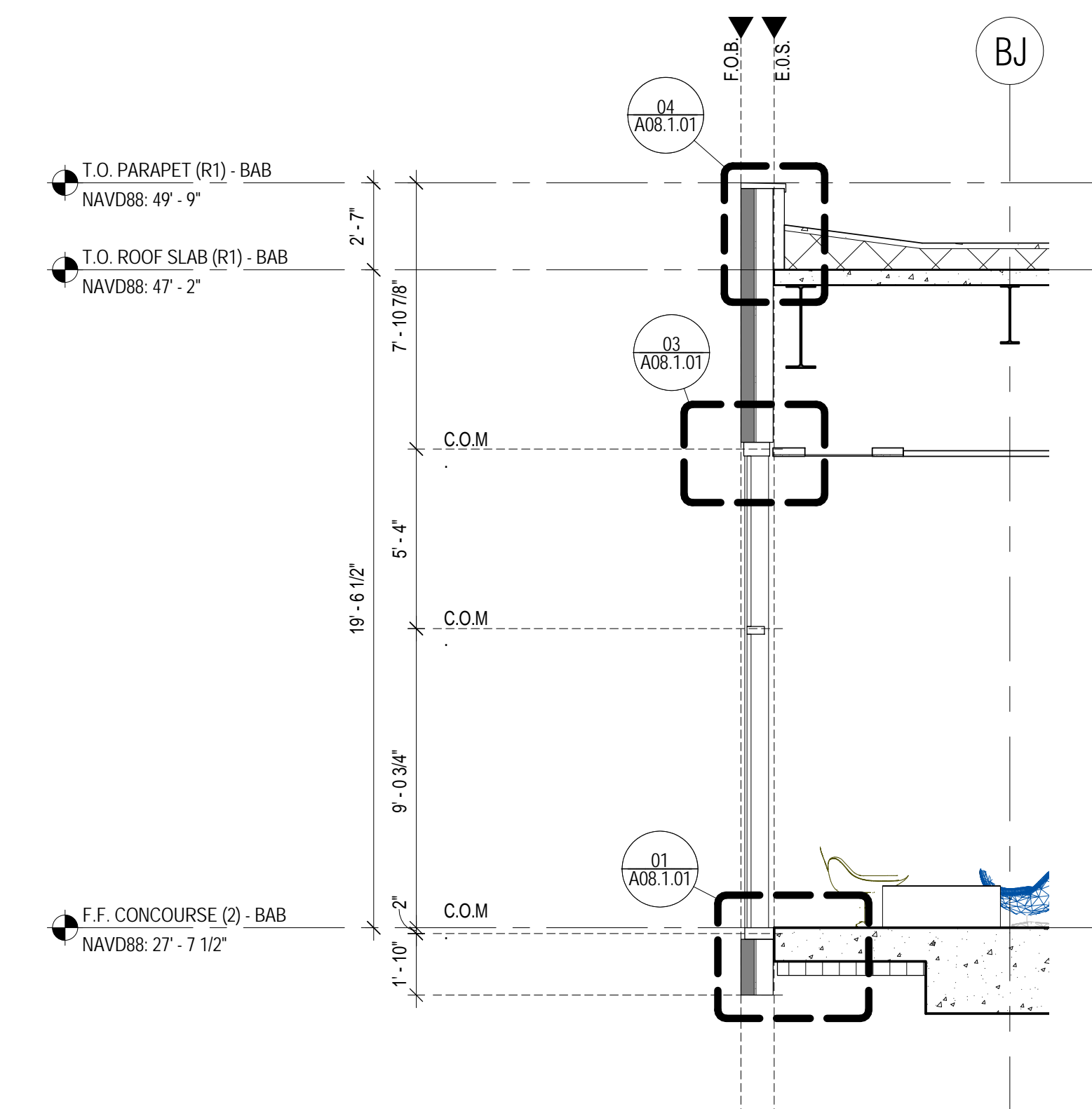
TYPICAL SPANDREL PANEL AT FIXED LINK GATE **03**  
SCALE: 1/4" = 1'-0"



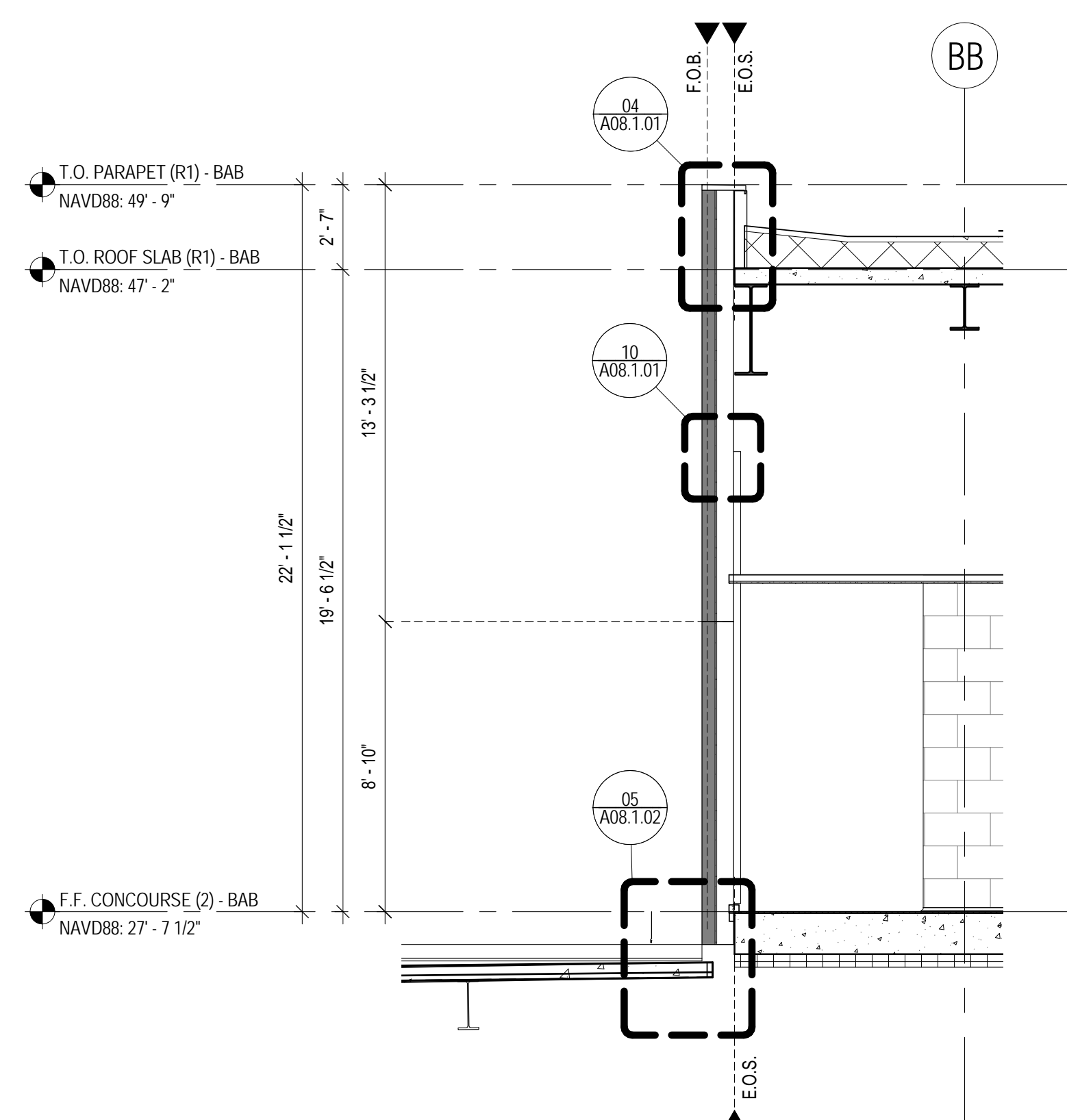
GLASS PANEL AT GREEN ROOF **8**  
SCALE: 1/4" = 1'-0"



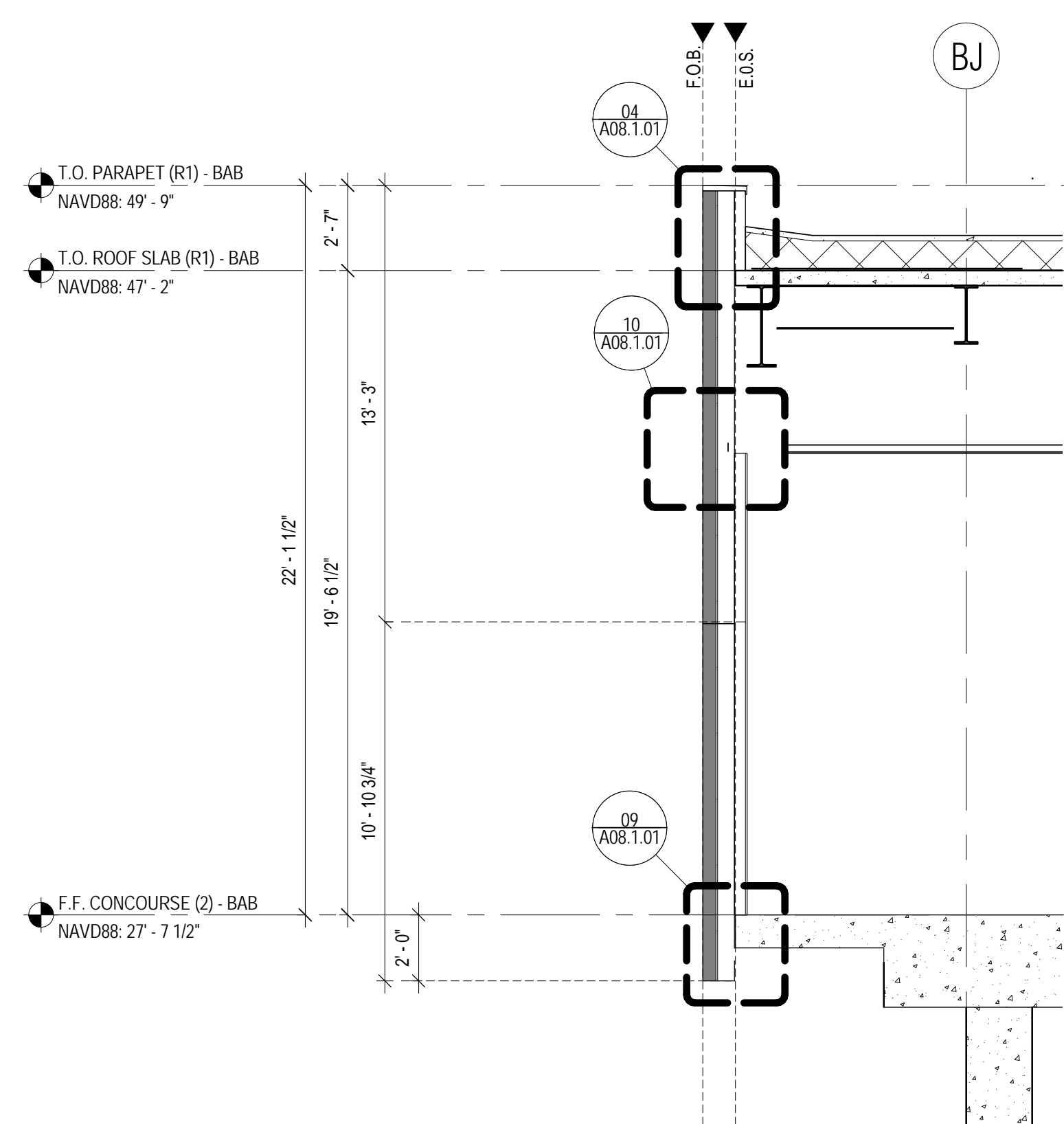
TYPICAL SPANDREL PANEL AT EXIT DOOR 01 **05**  
SCALE: 1/4" = 1'-0"



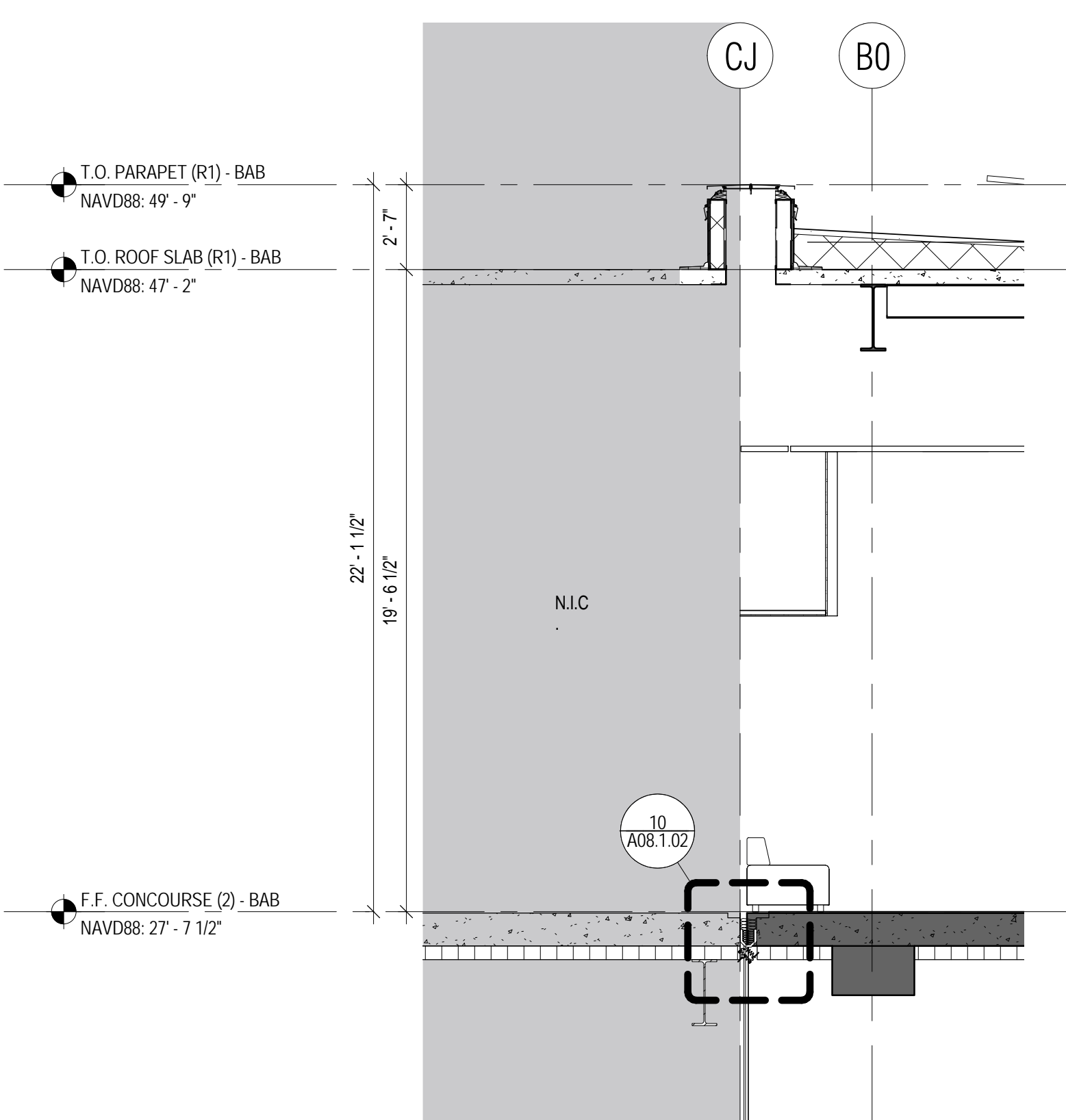
TYPICAL VISION PANEL AT CONCOURSE **02**  
SCALE: 1/4" = 1'-0"



FULL SPANDREL PANEL AT GREEN ROOF **07**  
SCALE: 1/4" = 1'-0"



TYPICAL FULL SPANDREL AT CONCOURSE LEVEL **04**  
SCALE: 1/4" = 1'-0"



SEISMIC JOINT AT CONCOURSE & R1 LEVEL **01**  
SCALE: 1/4" = 1'-0"



**SAN FRANCISCO INTERNATIONAL AIRPORT**  
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San Francisco, CA 94128

**Austin-Webcor**  
JOINT VENTURE  
207 King St., Suite 300  
San Francisco, CA 94107  
Phone (415) 978-1000

**HKS WOODS BAGOT**  
ED2 KYA  
539 Bryant Street Suite 100  
San Francisco CA 94107  
Phone (415) 356-3800

CONTRACT NO. **10010.66**  
PROJECT TITLE **TERMINAL 1 REDEVELOPMENT. BOARDING AREA B SAN FRANCISCO INTERNATIONAL AIRPORT**  
SHEET TITLE **EXTERIOR WALL SECTIONS**

ARCHITECT / ENGINEER SEAL

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B	SEPT 30, 2016	BID PACKAGE #3

SCALE: 1/4" = 1'-0" DATE: \_\_\_\_\_

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BM 380/SFO T1 BAB\_2016/SFIA-T1-BAB\_A.rvt



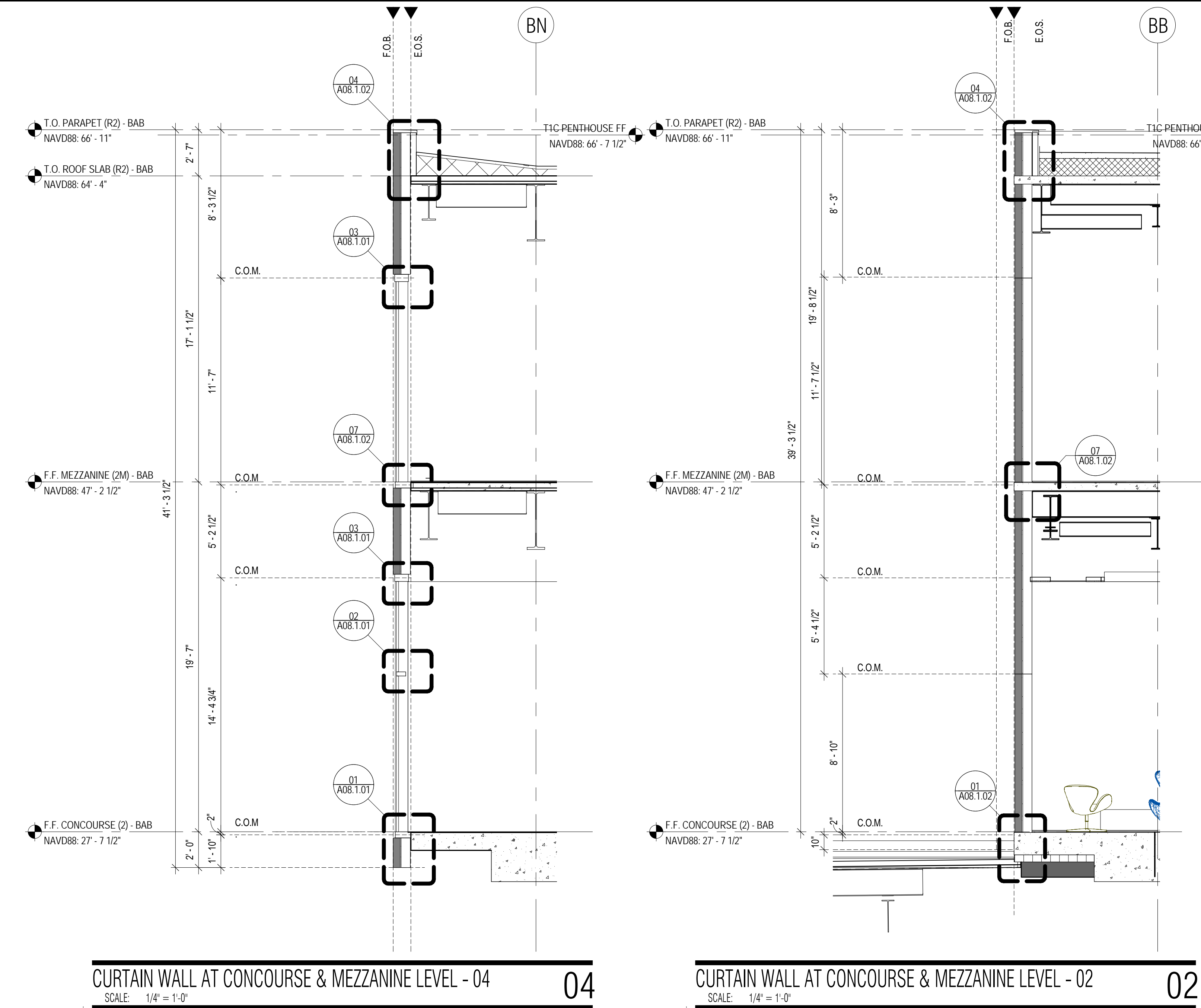
DRAWINGS ARE IN PROGRESS IN RESPONSE TO THE UPDATED AGA BUILDING ENVELOPE SYSTEM



**SAN FRANCISCO INTERNATIONAL AIRPORT**  
710 McDonnell Road, 2nd Floor  
San Francisco, CA 94128

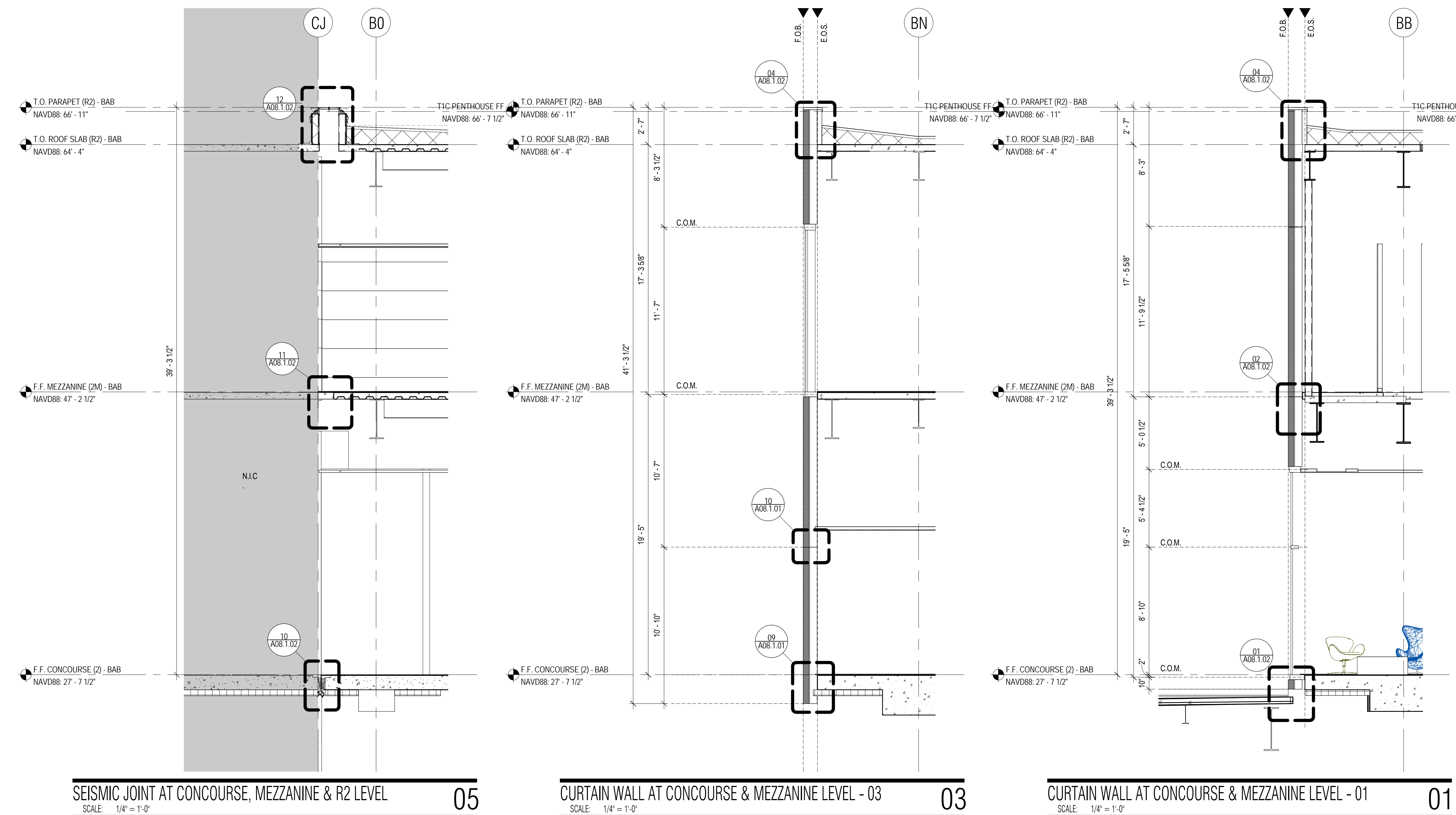
**Austin-Webcor**  
JOINT VENTURE  
207 King St., Suite 300  
San Francisco, CA 94107  
Phone (415) 978-1000

**HKS WOODS BAGOT ED2 KYA**  
539 Bryant Street Suite 100  
San Francisco CA 94107  
Phone (415) 356-3800



**CURTAIN WALL AT CONCOURSE & MEZZANINE LEVEL - 04**  
SCALE: 1/4" = 1'-0" **04**

**CURTAIN WALL AT CONCOURSE & MEZZANINE LEVEL - 02**  
SCALE: 1/4" = 1'-0" **02**



**SEISMIC JOINT AT CONCOURSE, MEZZANINE & R2 LEVEL**  
SCALE: 1/4" = 1'-0" **05**

**CURTAIN WALL AT CONCOURSE & MEZZANINE LEVEL - 03**  
SCALE: 1/4" = 1'-0" **03**

**CURTAIN WALL AT CONCOURSE & MEZZANINE LEVEL - 01**  
SCALE: 1/4" = 1'-0" **01**

**10010.66**  
CONTRACT NO.  
PROJECT TITLE  
**TERMINAL 1 REDEVELOPMENT.  
BOARDING AREA B  
SAN FRANCISCO INTERNATIONAL AIRPORT**  
SHEET TITLE  
**EXTERIOR WALL  
SECTIONS**

ARCHITECT / ENGINEER SEAL

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ISSUE	DATE	DESCRIPTION
Z	MAR 24, 2017	ISSUE Z
L	DEC 09, 2016	ISSUE L
J	NOV 30, 2016	ISSUE J
E	OCT 28, 2016	ISSUE E
C	OCT 12, 2016	ISSUE C
B	SEPT 30, 2016	BID PACKAGE #3

SCALE	1/4" = 1'-0"	DATE	
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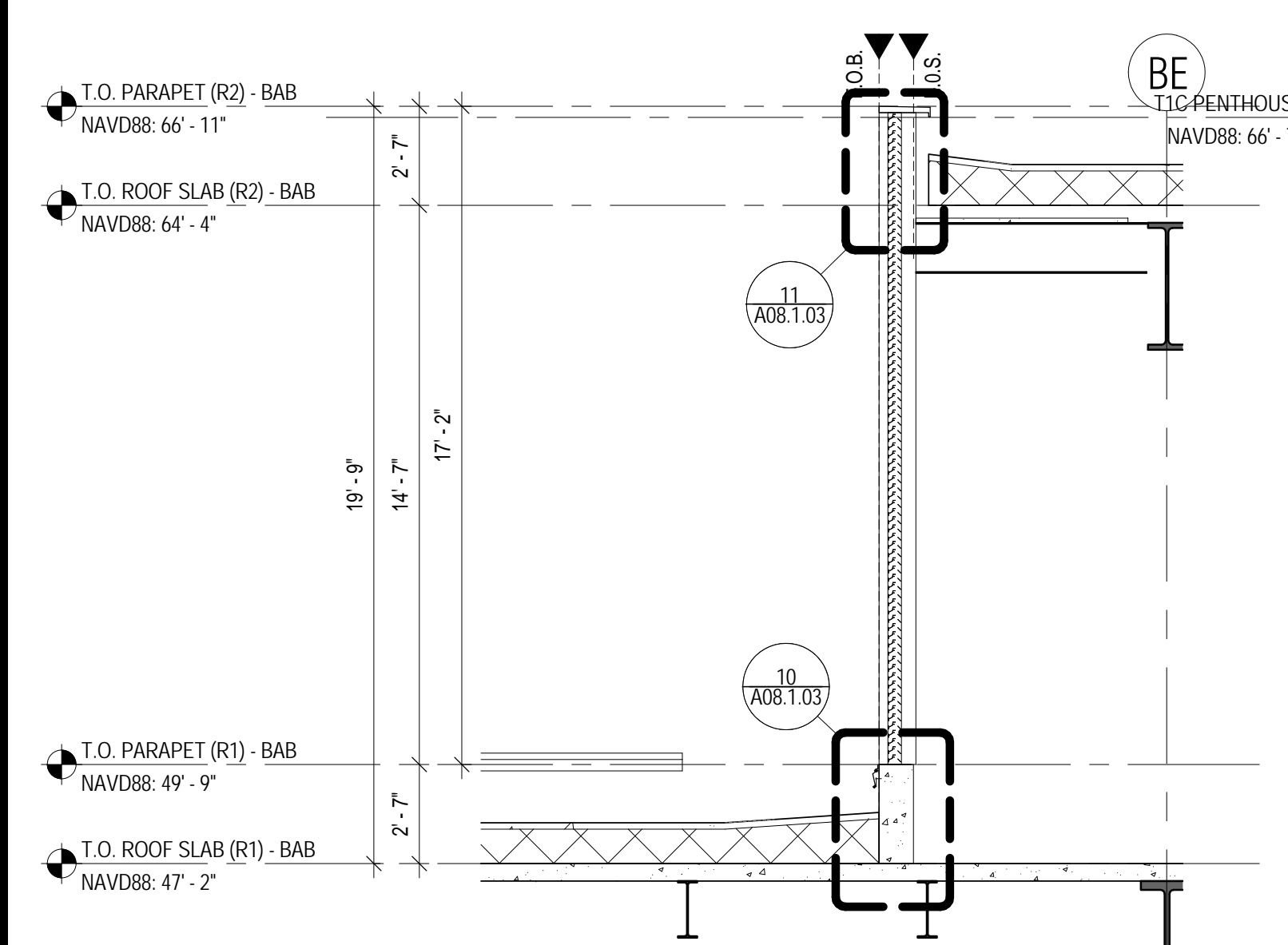
BM 380/SFO T1 BAB\_2016/SFIA-T1-BAB\_A.rvt



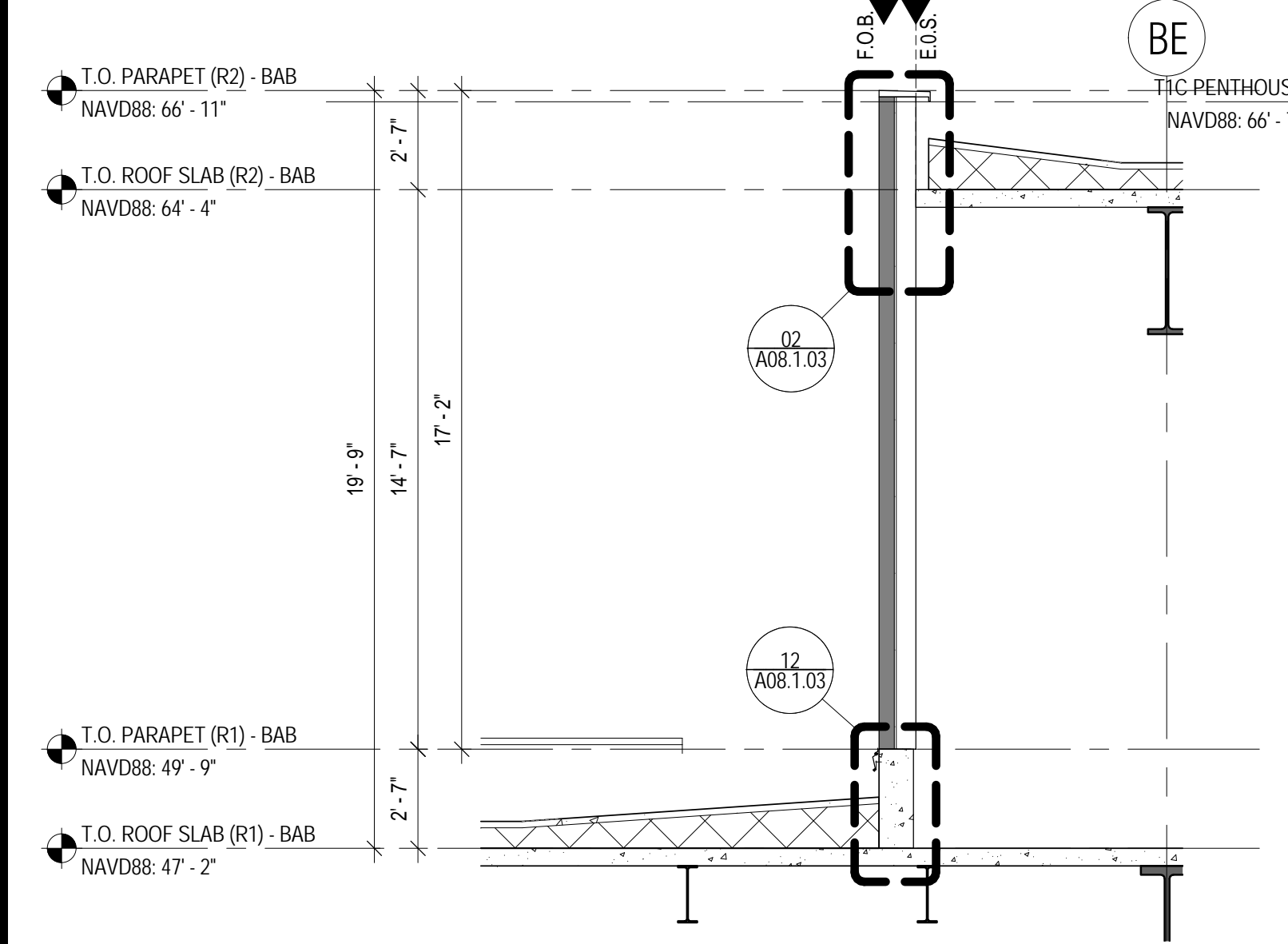
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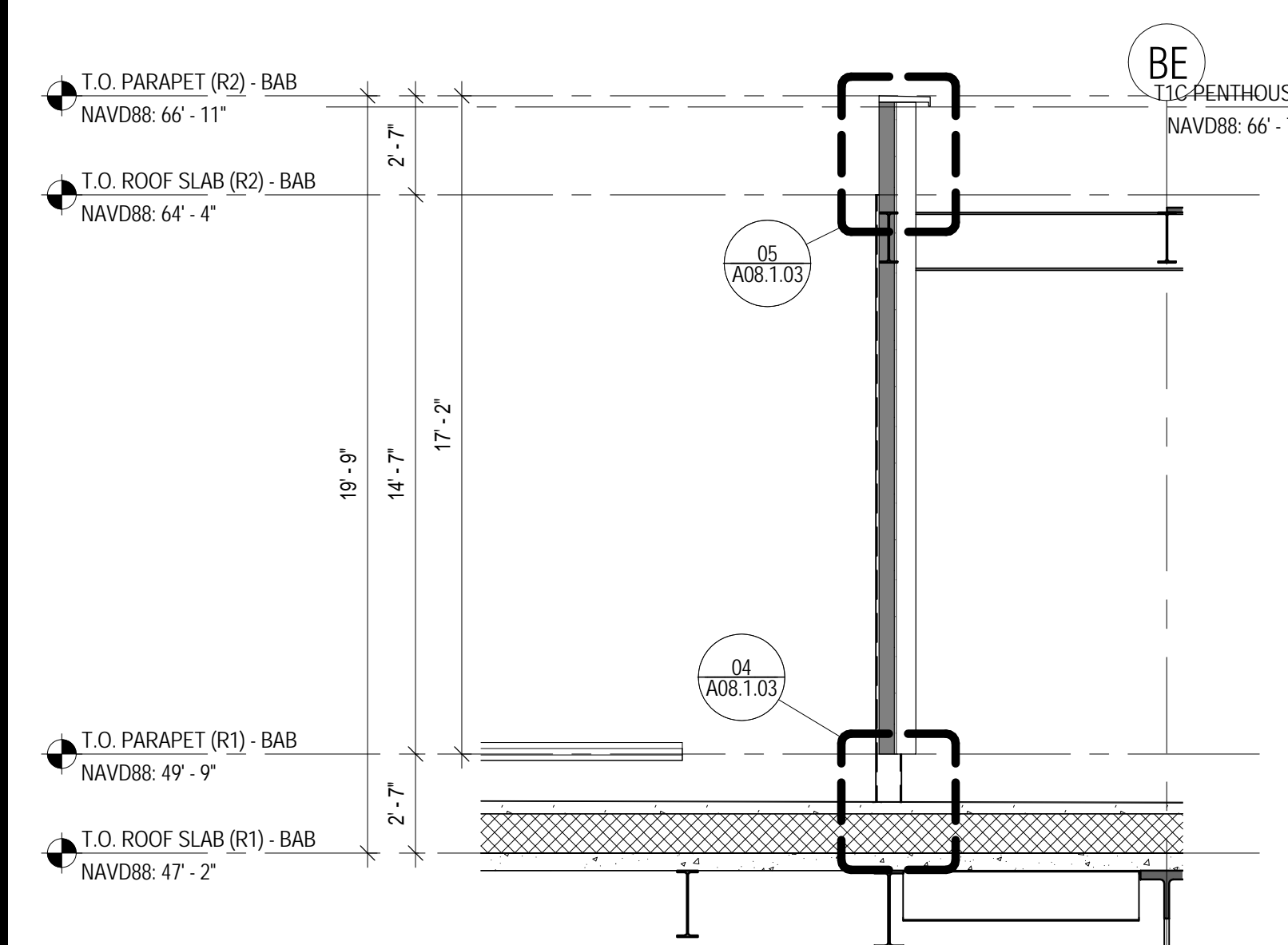
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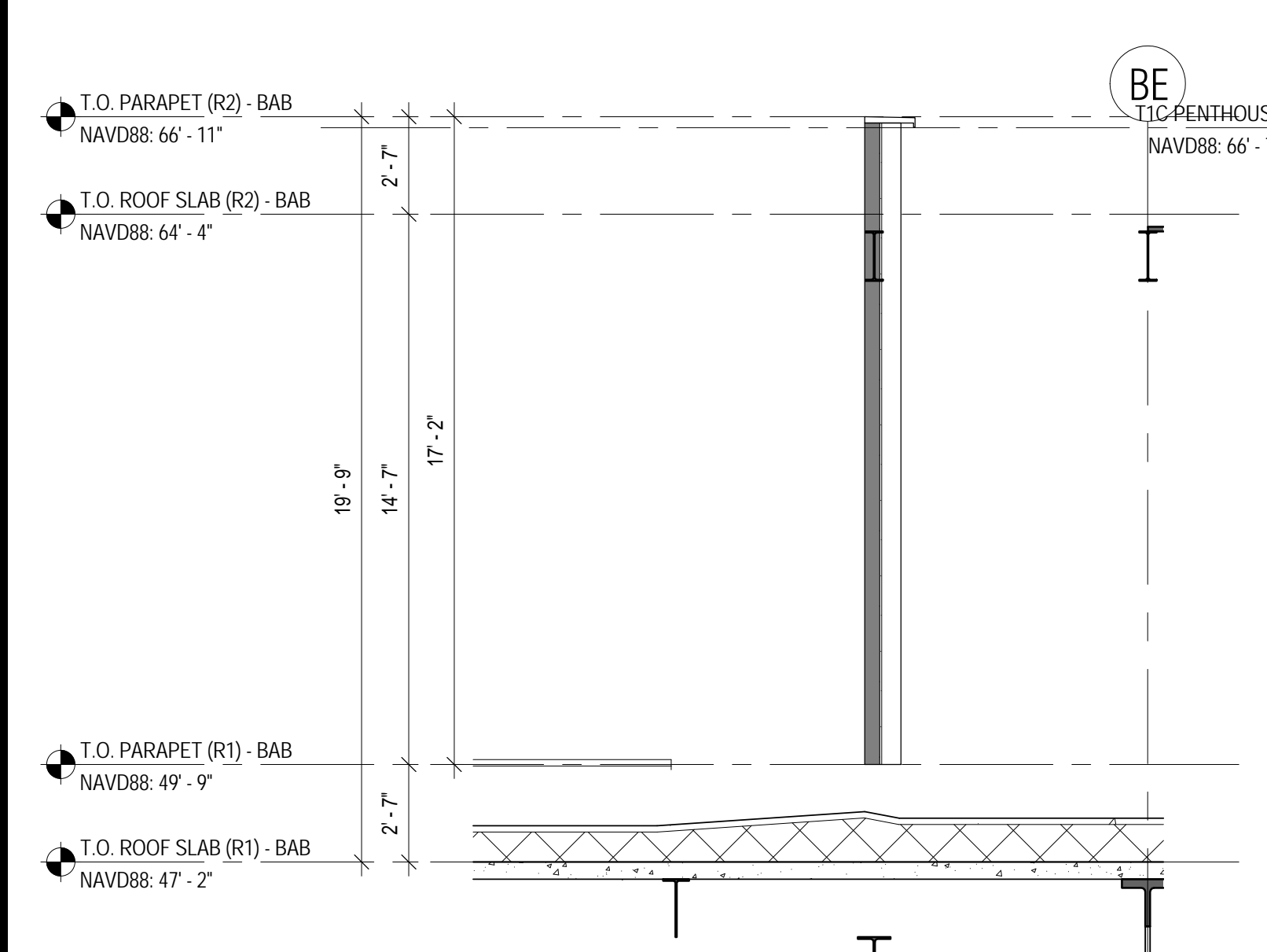
**CURTAIN WALL LOUVER AT MECHANICAL PENTHOUSE AT R2 LEVEL 10**  
SCALE: 1/4" = 1'-0"



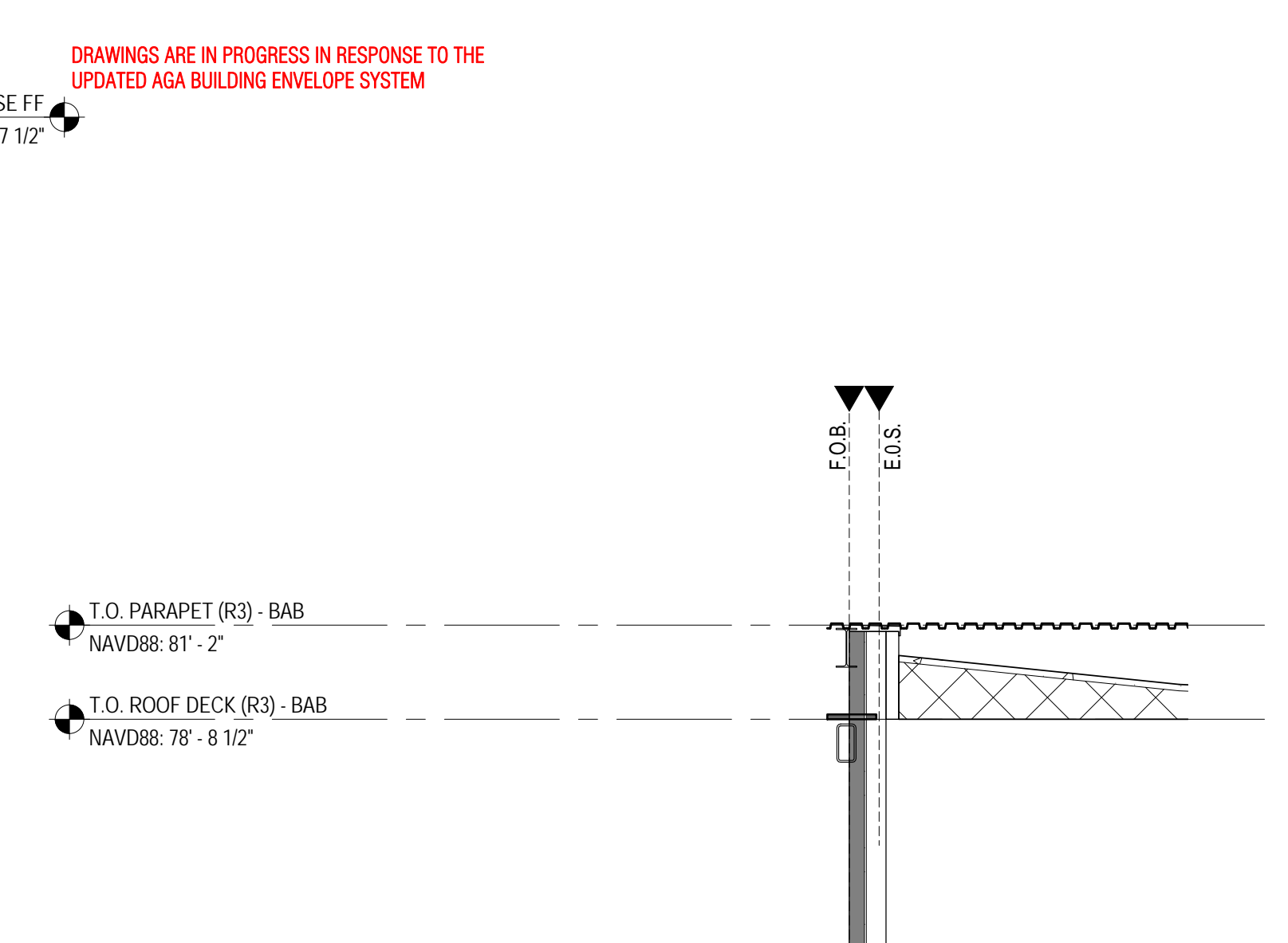
**OPAQUE PANEL AT MECHANICAL PENTHOUSE AT R2 LEVEL 09**  
SCALE: 1/4" = 1'-0"



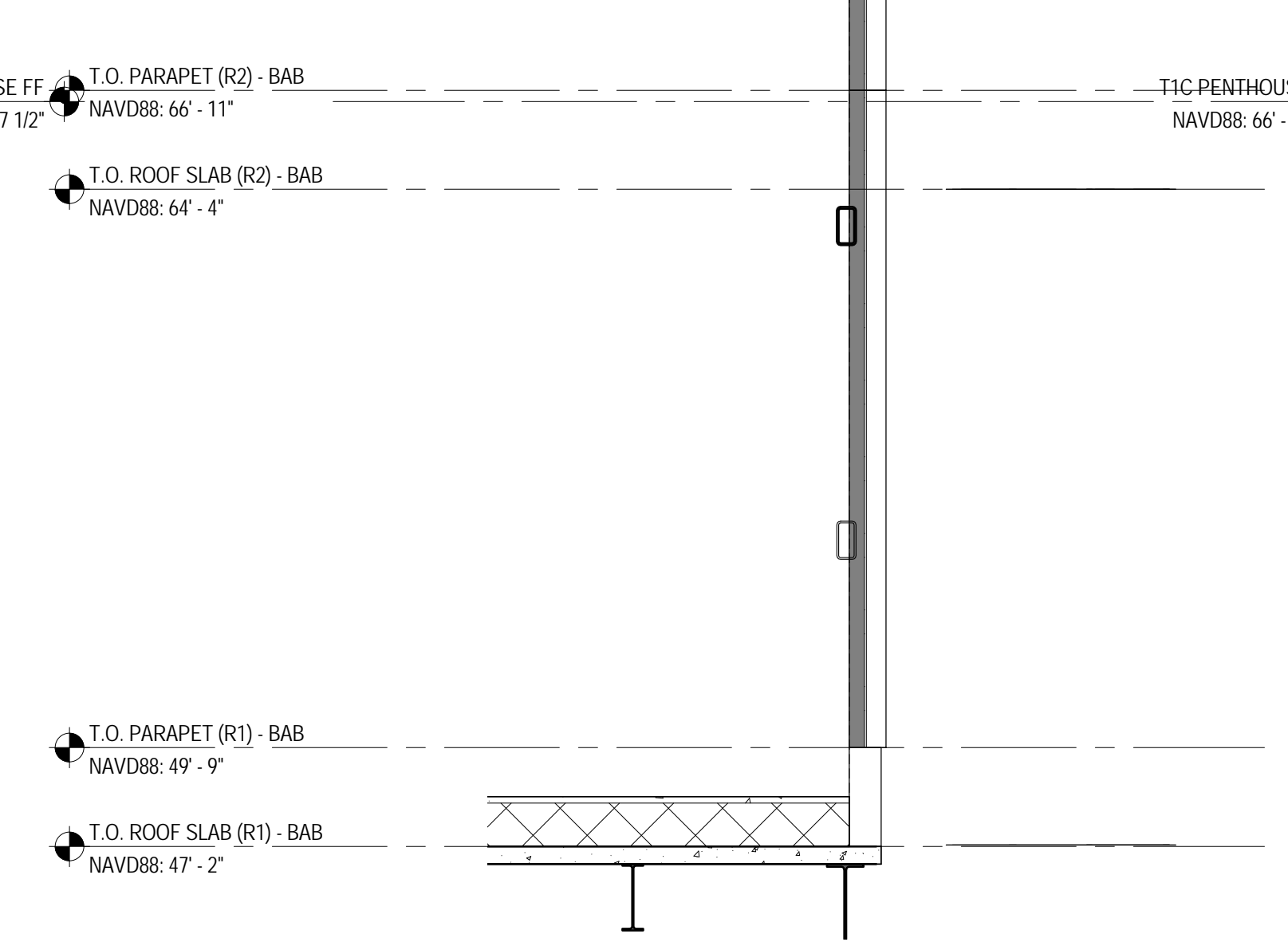
**SCREEN WALL AT MECHANICAL WELL - 01 08**  
SCALE: 1/4" = 1'-0"



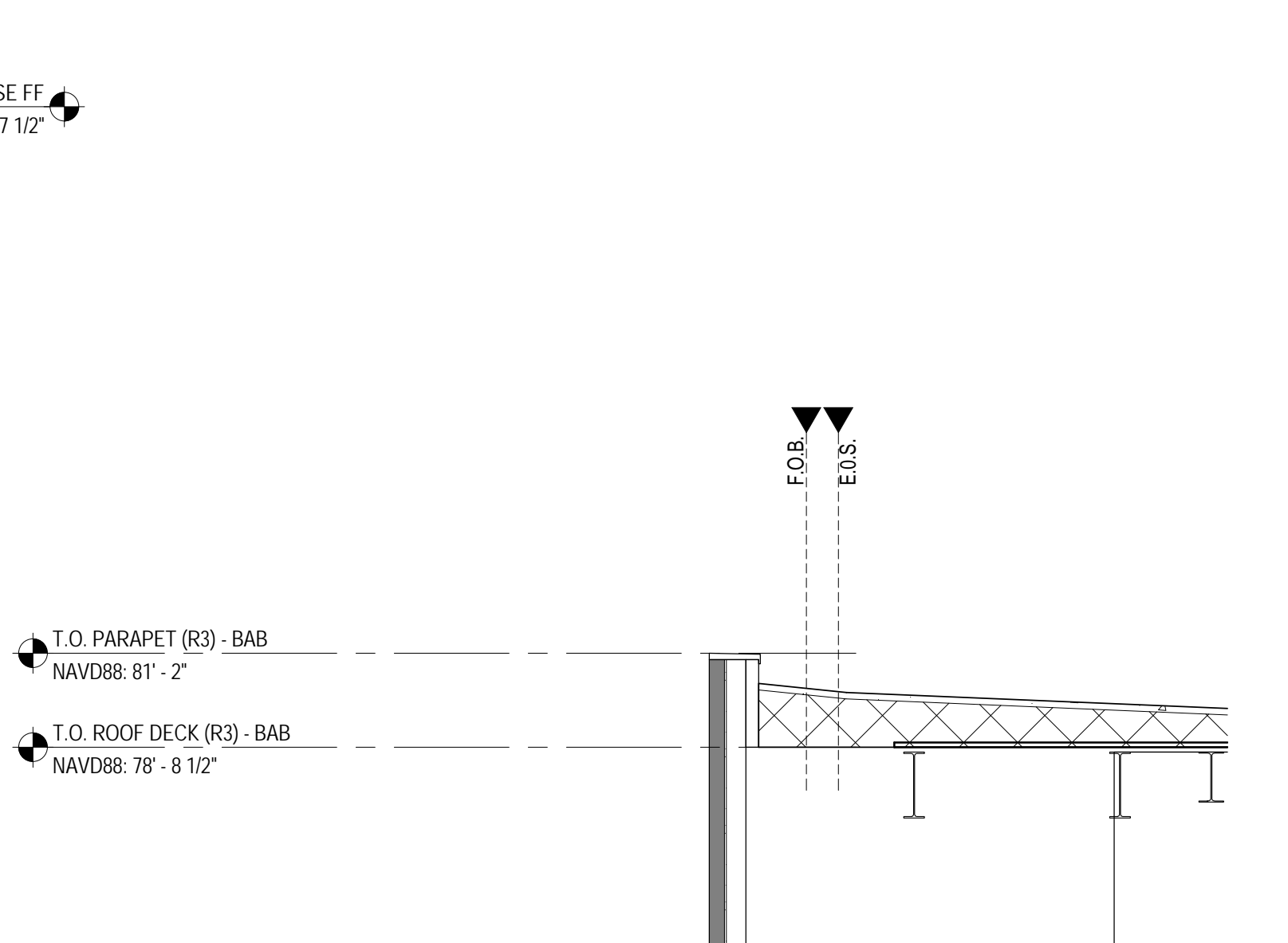
**SCREEN WALL AT MECHANICAL WELL - 02 07**  
SCALE: 1/4" = 1'-0"



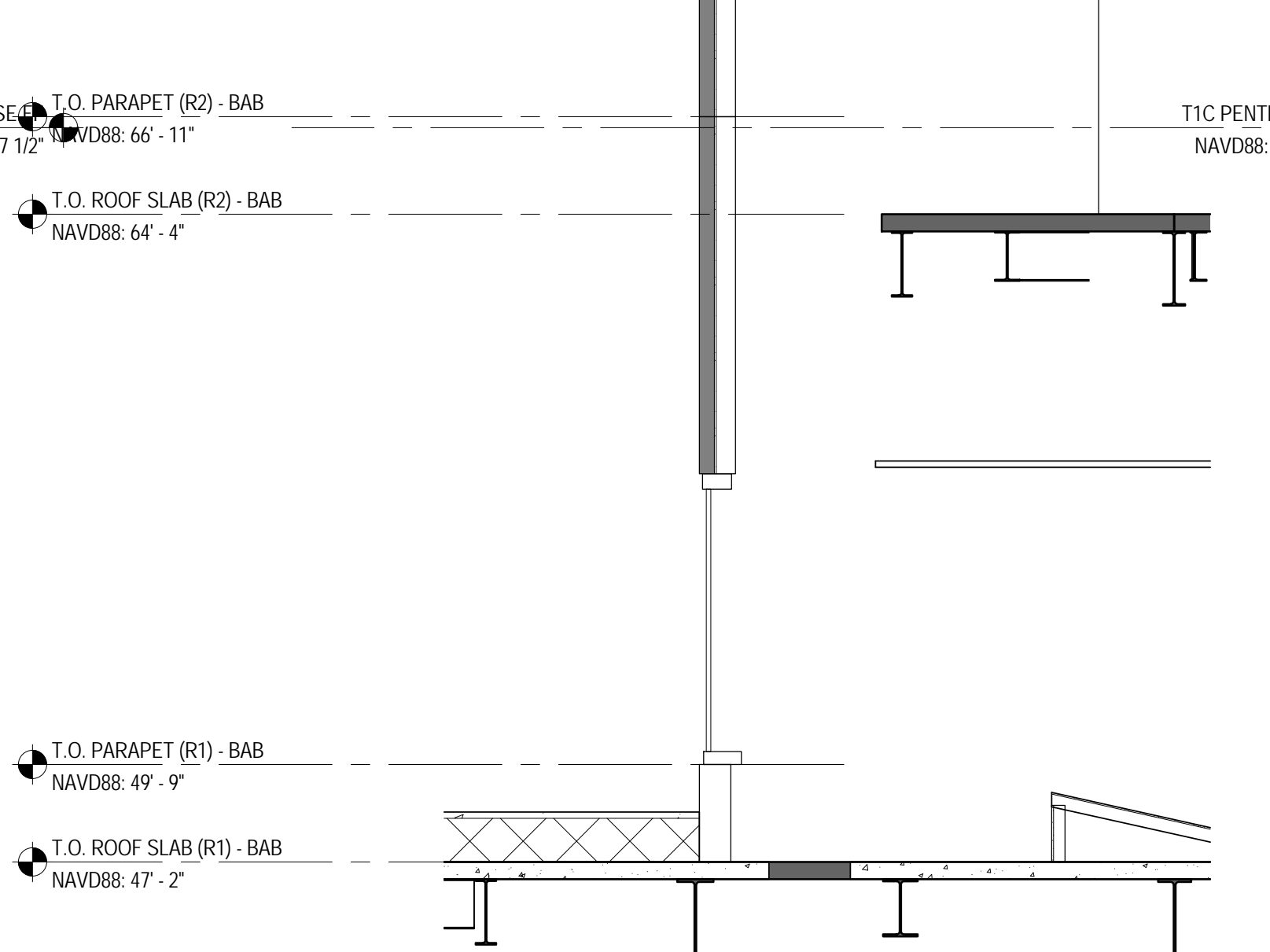
**OPAQUE PANEL AT MECHANICAL PENTHOUSE AT R2 LEVEL 06**  
SCALE: 1/4" = 1'-0"



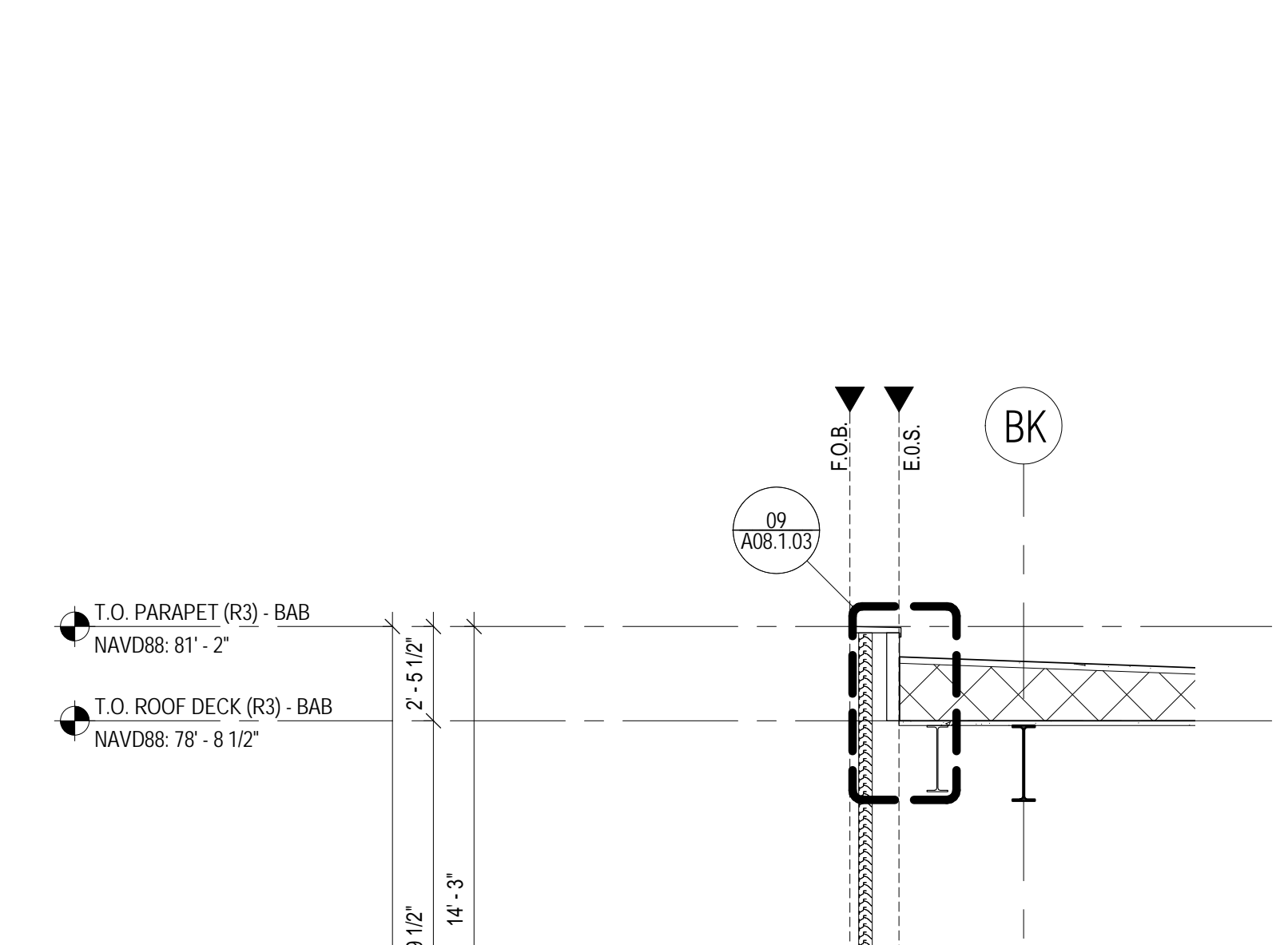
**OPAQUE PANEL AT MECHANICAL PENTHOUSE AT R2 LEVEL 05**  
SCALE: 1/4" = 1'-0"



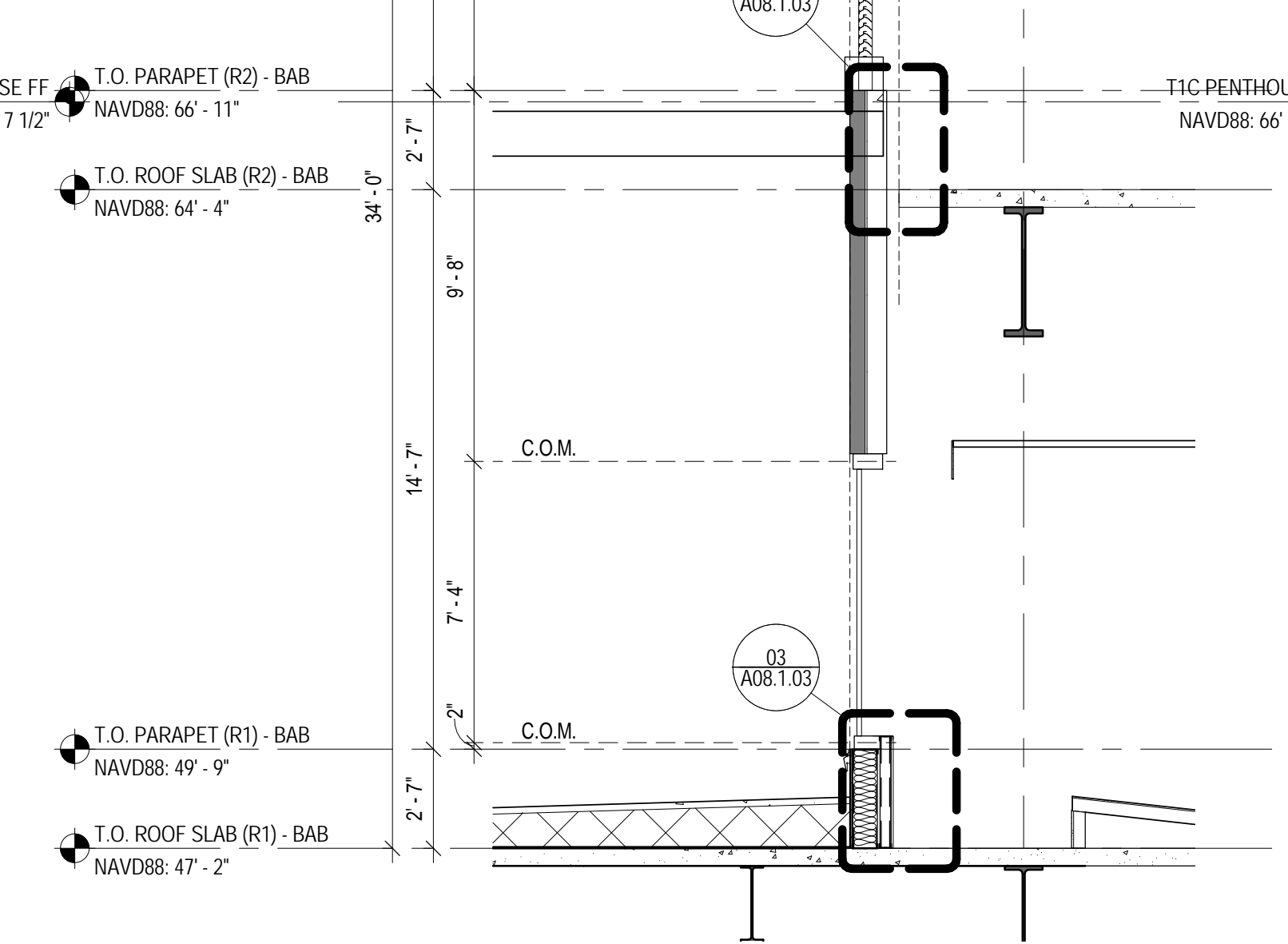
**CURTAIN WALL AT MARS GATE B7 04**  
SCALE: 1/4" = 1'-0"



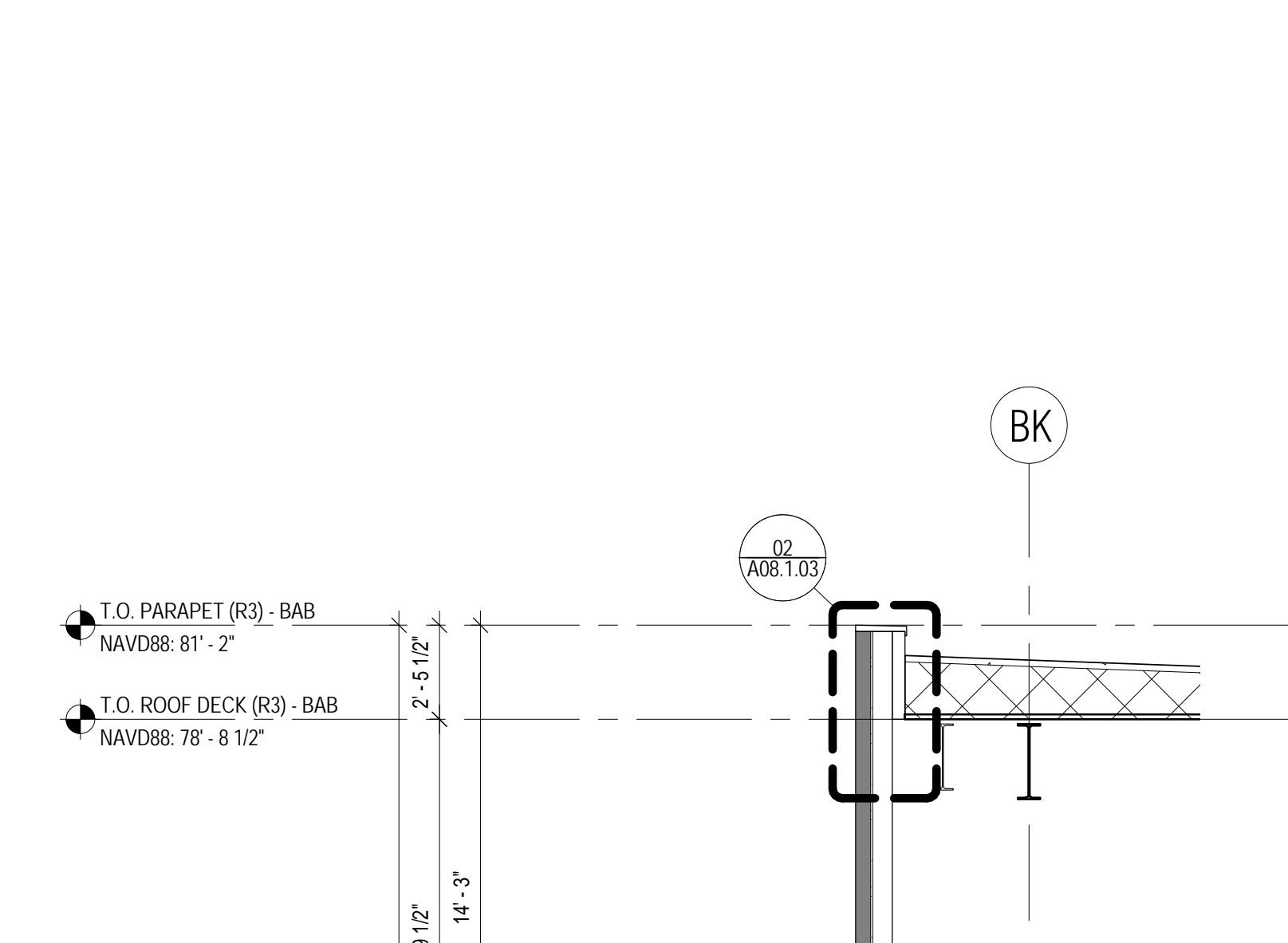
**CURTAIN WALL AT MEZZANINE & PENTHOUSE LEVEL 03**  
SCALE: 1/4" = 1'-0"



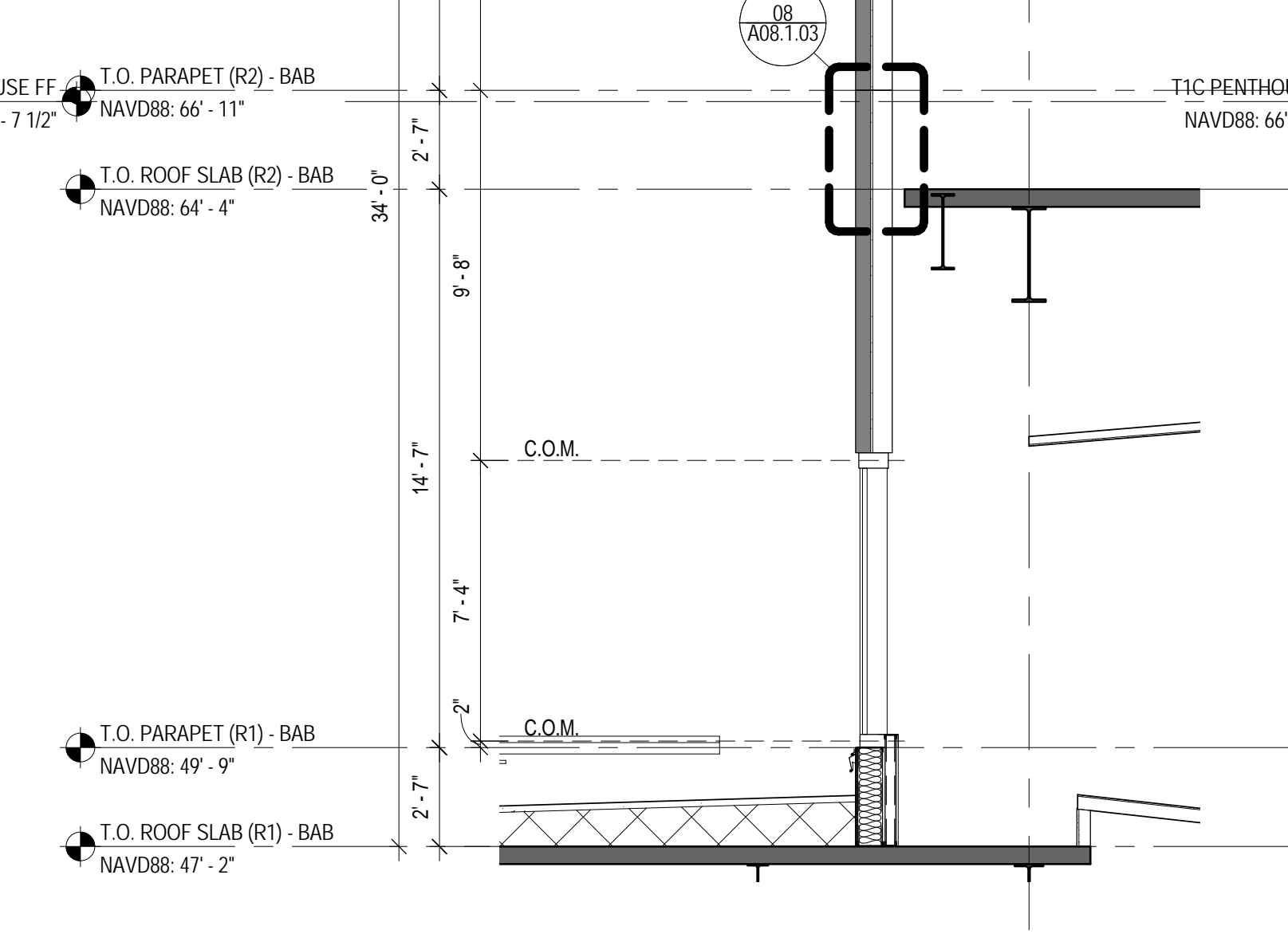
**CURTAIN WALL AT MEZZANINE & PENTHOUSE LEVEL 02**  
SCALE: 1/4" = 1'-0"



**CURTAIN WALL AT MEZZANINE LEVEL CLERESTORY AREA 01**  
SCALE: 1/4" = 1'-0"



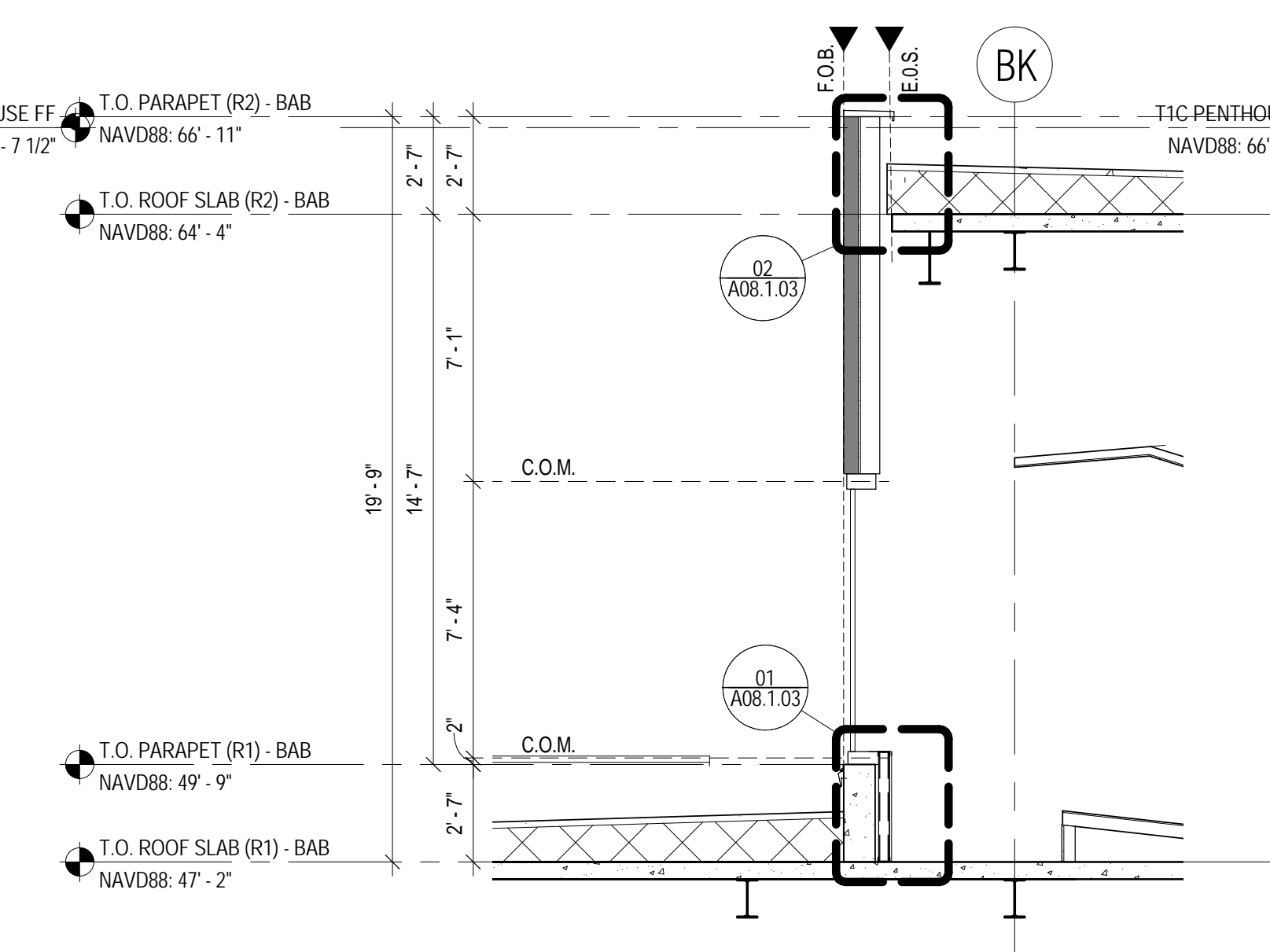
**CURTAIN WALL AT MEZZANINE LEVEL CLERESTORY AREA 01**  
SCALE: 1/4" = 1'-0"



**CURTAIN WALL AT MEZZANINE & PENTHOUSE LEVEL 02**  
SCALE: 1/4" = 1'-0"



**CURTAIN WALL AT MEZZANINE & PENTHOUSE LEVEL 03**  
SCALE: 1/4" = 1'-0"



**CURTAIN WALL AT MEZZANINE & PENTHOUSE LEVEL 04**  
SCALE: 1/4" = 1'-0"

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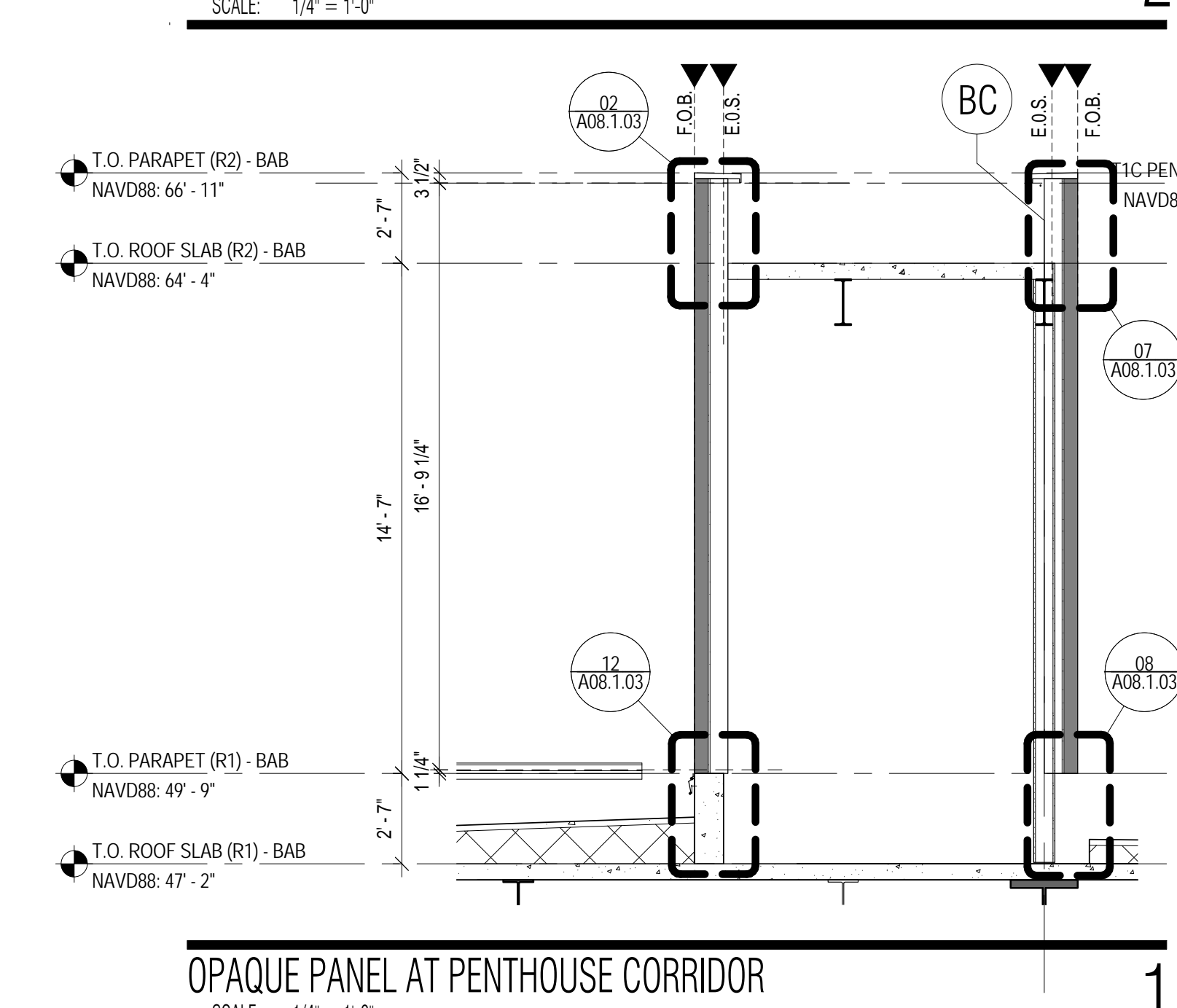
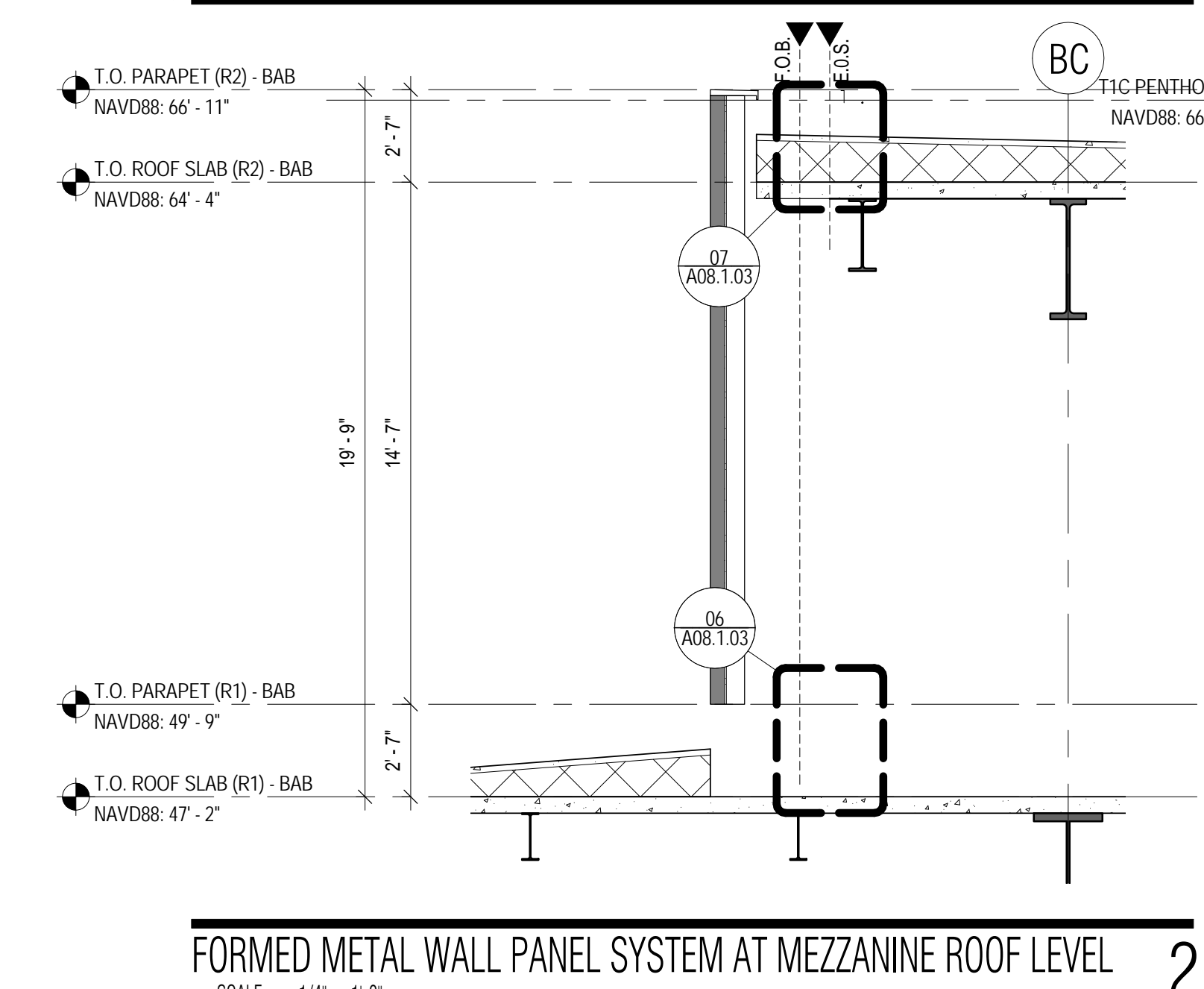
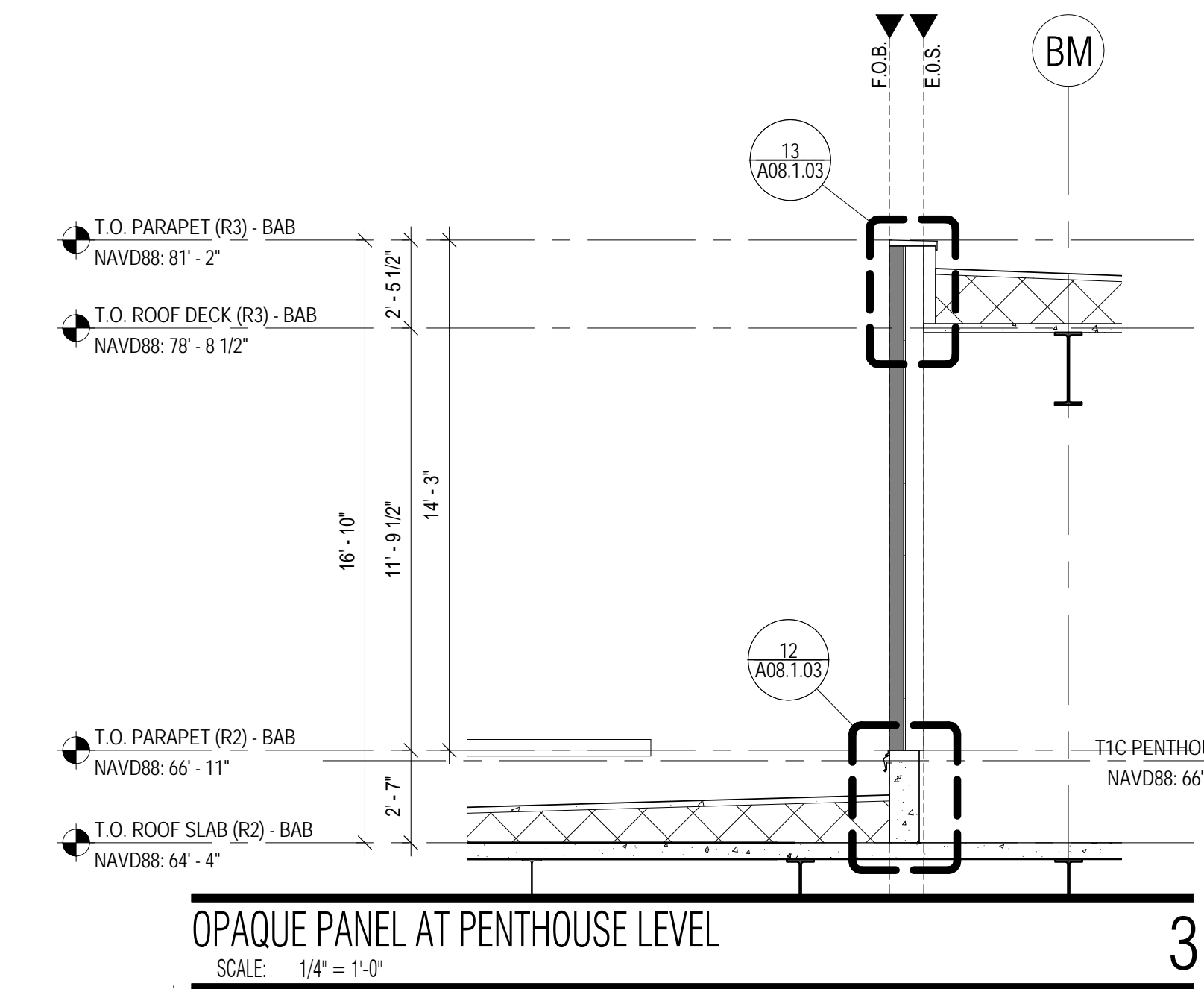




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Z	MAR 24, 2017	ISSUE Z	

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

**A03.3.04**

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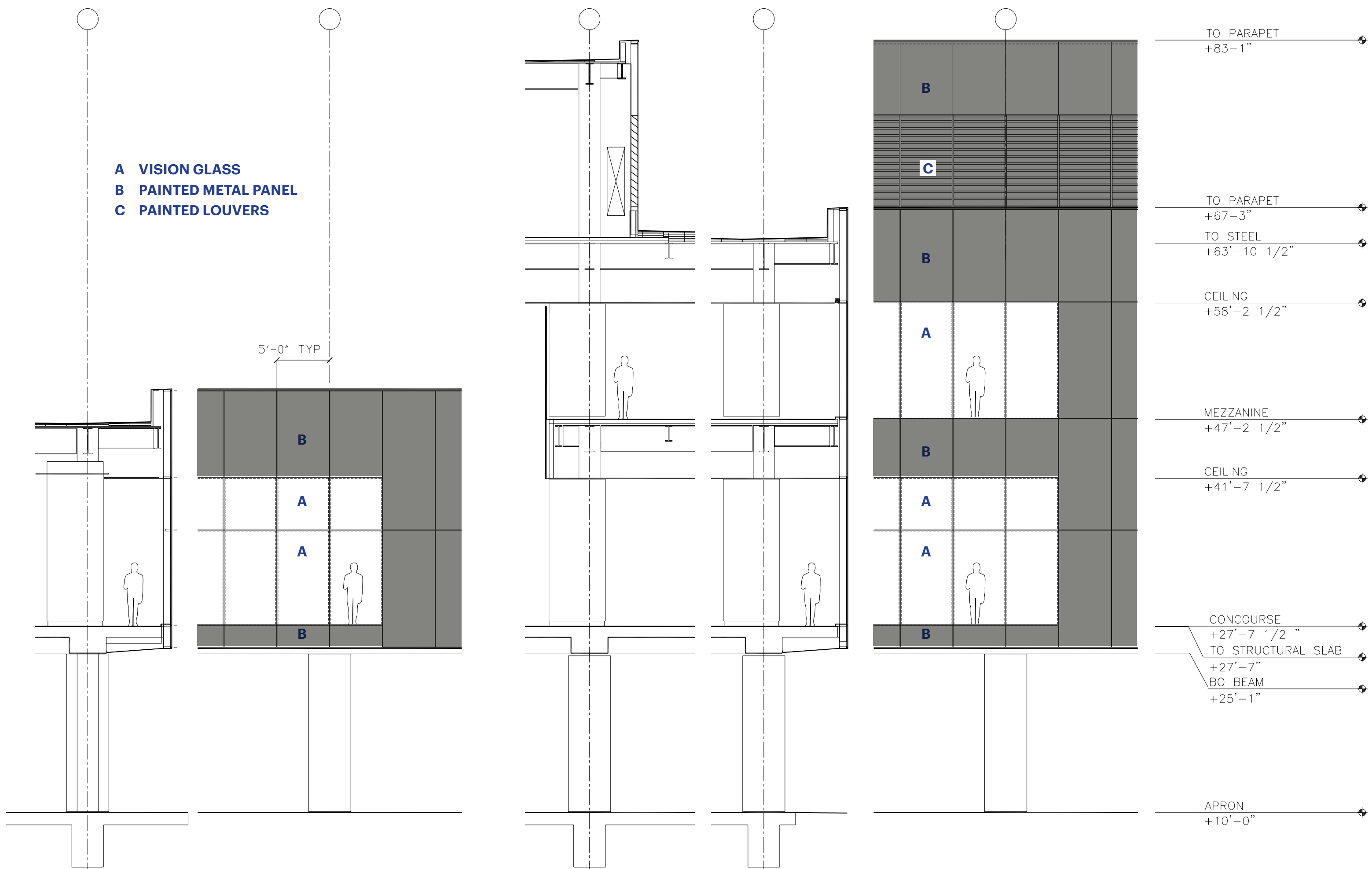






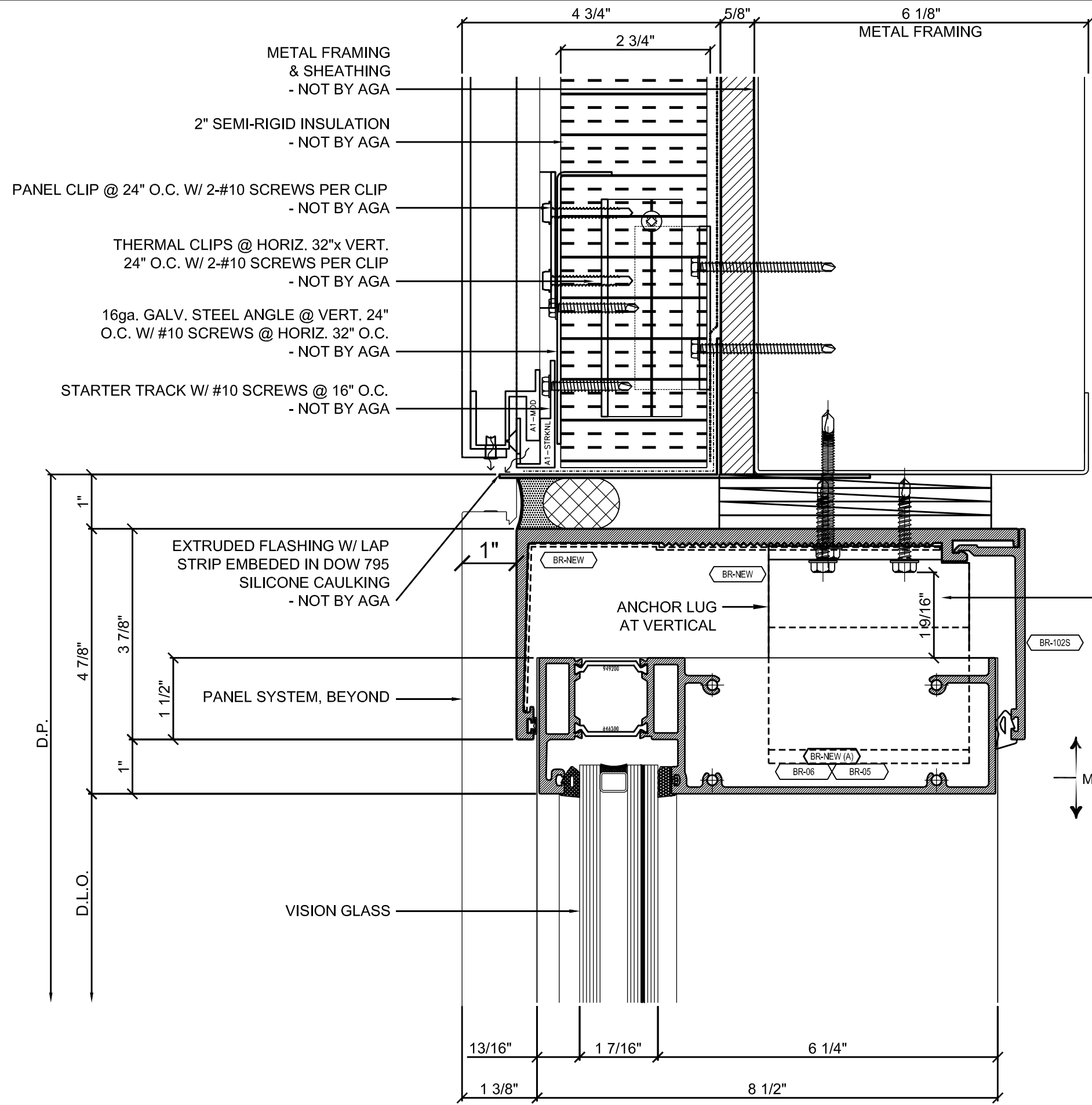
- A VISION GLASS**
- B PAINTED METAL PANEL**
- C PAINTED LOUVERS**

5'-0" TYP



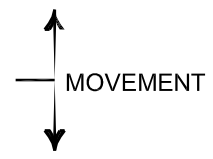
**TYPICAL ELEVATIONS - BAB AIRSIDE**





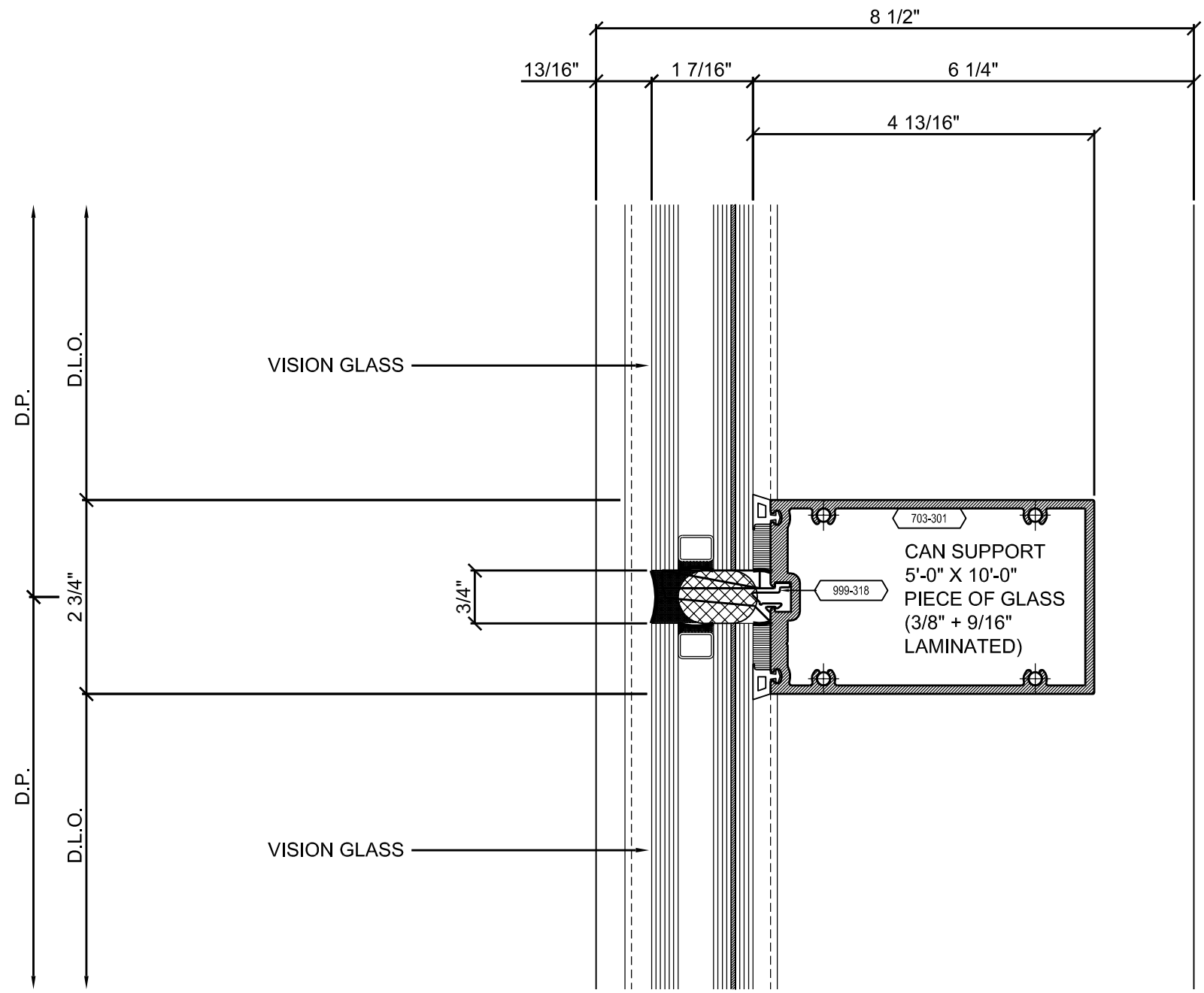
- GENERAL NOTES:
1. ALL GASKETS BLACK.
  2. ALL SEALANT BLACK.
  3. ALL GLASS SPACERS CLEAR ANODIZED ALUMINUM.
  4. SPACER LOCATION FROM EDGE OF GLASS SHOWN CONCEPT ONLY, FINAL SPACER LOCATION FROM EDGE OF GLASS PER GLASS FABRICATOR CALCULATIONS.
  5. SEALANT DETAILS NOT SHOWN FOR CLARITY, TO BE INCLUDED IN SHOP DRAWING SUBMITTALS.
  6. INSULATION & SMOKE SEALS NOT BY AGA.
  7. EXTERIOR FASTENERS/SUBJECT TO WETTING TO BE STAINLESS STEEL OR STALGARD. ALL OTHERS CAD PLATED.
  8. INTERIOR STEEL REINFORCEMENTS NOT SUBJECT TO WETTING TO BE PRIME PAINTED STEEL.

+1/4" THERMAL EXPANSION  
 +1/2" LIVE LOAD  
 +1/8" INSTALLATION TOLERANCE  
 MIN. 7/8" CLEARANCE  
 (MIN. +1" INSTALLATION CLEARANCE)



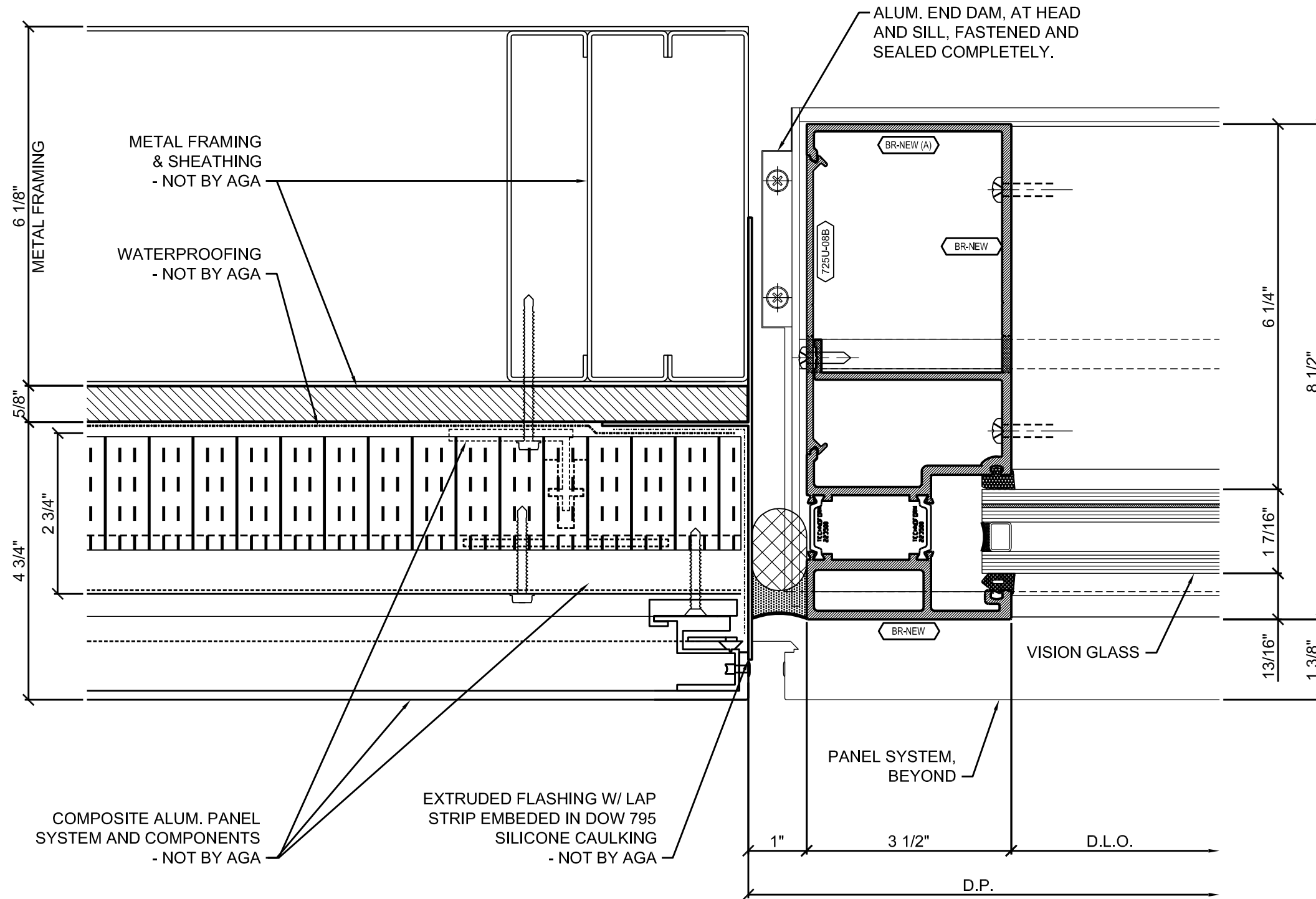
1 WINDOW HEAD (AIRSIDE)  
 ARCH. REF:





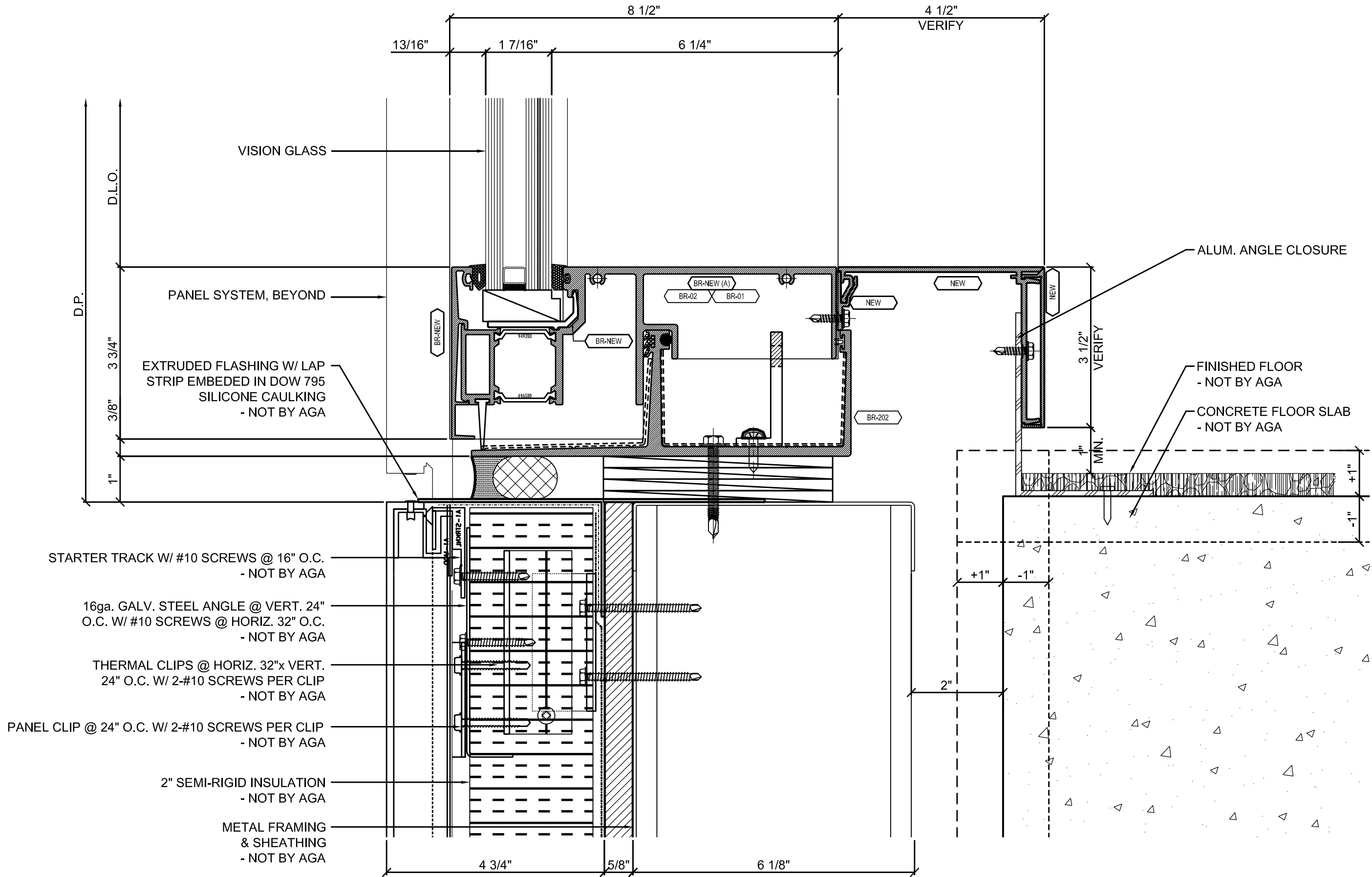
1 WINDOW HORIZONTAL (AIRSIDE)  
 ARCH. REF: 14/A08.0.10





1 WINDOW JAMB (AIRSIDE)  
 ARCH. REF:





VISION GLASS

PANEL SYSTEM, BEYOND

EXTRUDED FLASHING W/ LAP STRIP EMBEDDED IN DOW 795 SILICONE CAULKING - NOT BY AGA

STARTER TRACK W/ #10 SCREWS @ 16" O.C. - NOT BY AGA

16ga. GALV. STEEL ANGLE @ VERT. 24" O.C. W/ #10 SCREWS @ HORIZ. 32" O.C. - NOT BY AGA

THERMAL CLIPS @ HORIZ. 32"x VERT. 24" O.C. W/ 2-#10 SCREWS PER CLIP - NOT BY AGA

PANEL CLIP @ 24" O.C. W/ 2-#10 SCREWS PER CLIP - NOT BY AGA

2" SEMI-RIGID INSULATION - NOT BY AGA

METAL FRAMING & SHEATHING - NOT BY AGA

8 1/2"

4 1/2" VERIFY

13/16"

1 7/16"

6 1/4"

D.L.O.

D.P.

3 3/4"

3/8"

1"

4 3/4"

5/8"

6 1/8"

ALUM. ANGLE CLOSURE

3 1/2" VERIFY

FINISHED FLOOR - NOT BY AGA

CONCRETE FLOOR SLAB - NOT BY AGA

MIN.

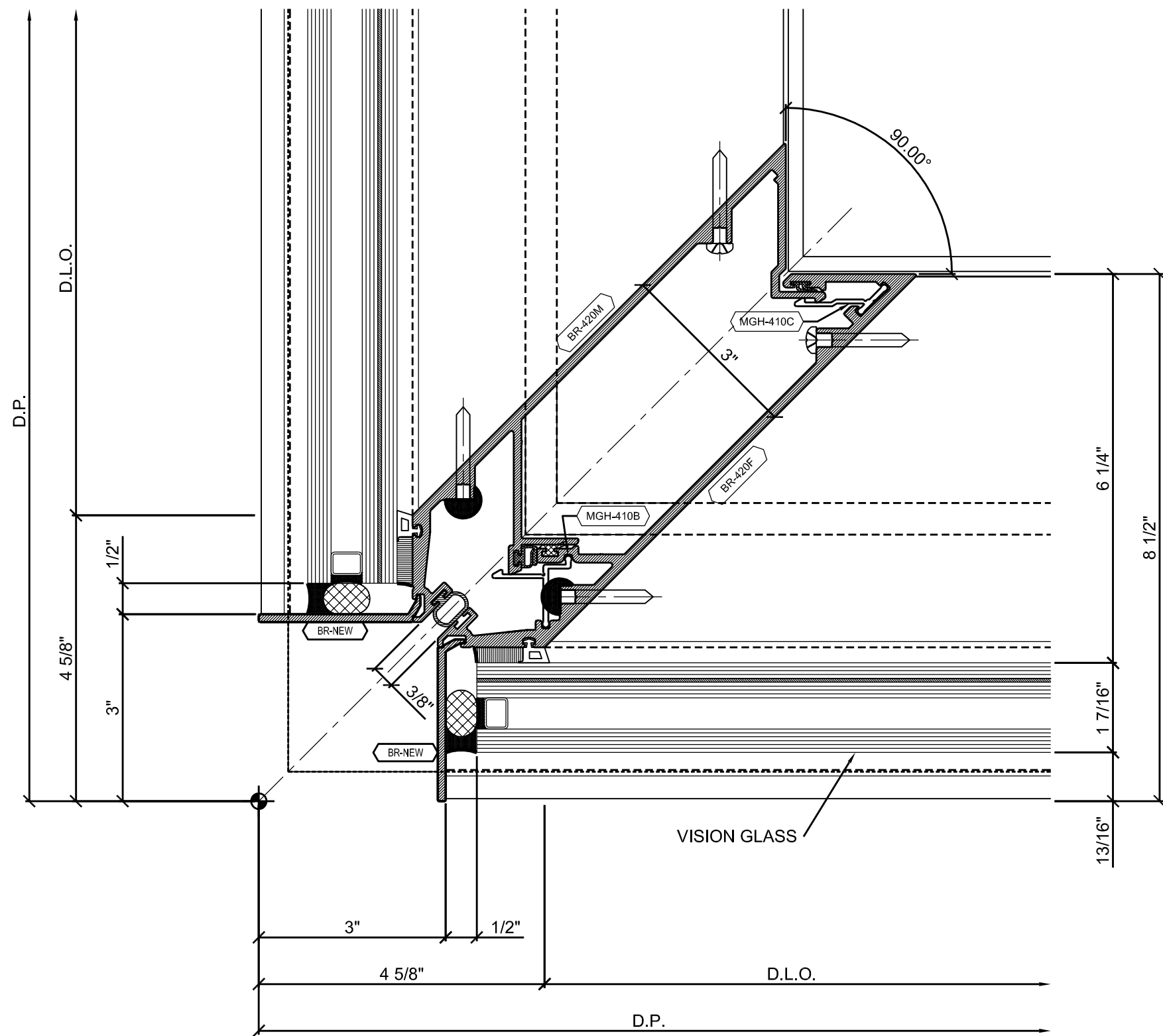
1"

+1"

-1"

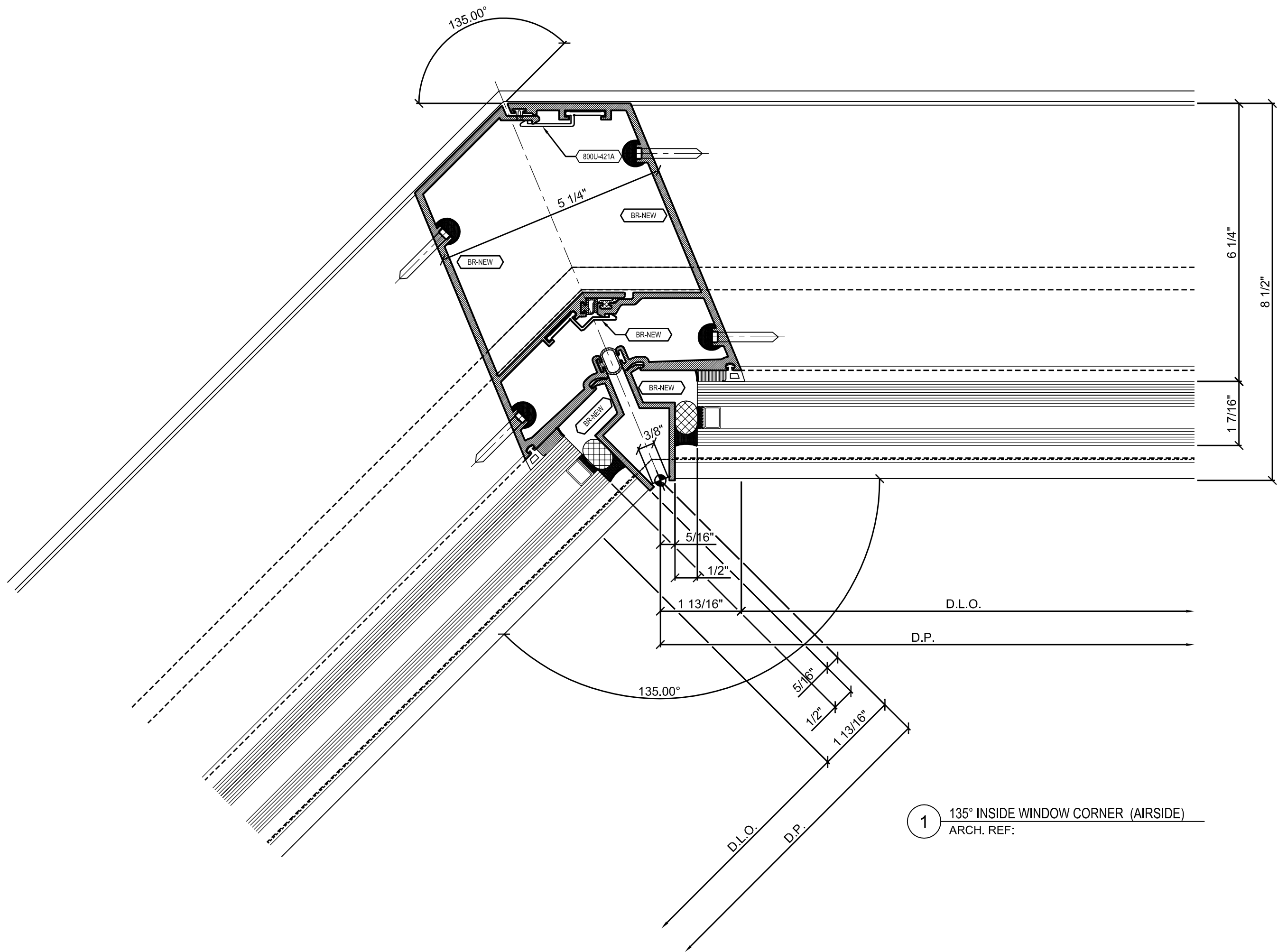
1 WINDOW SILL (AIRSIDE)  
ARCH. REF:





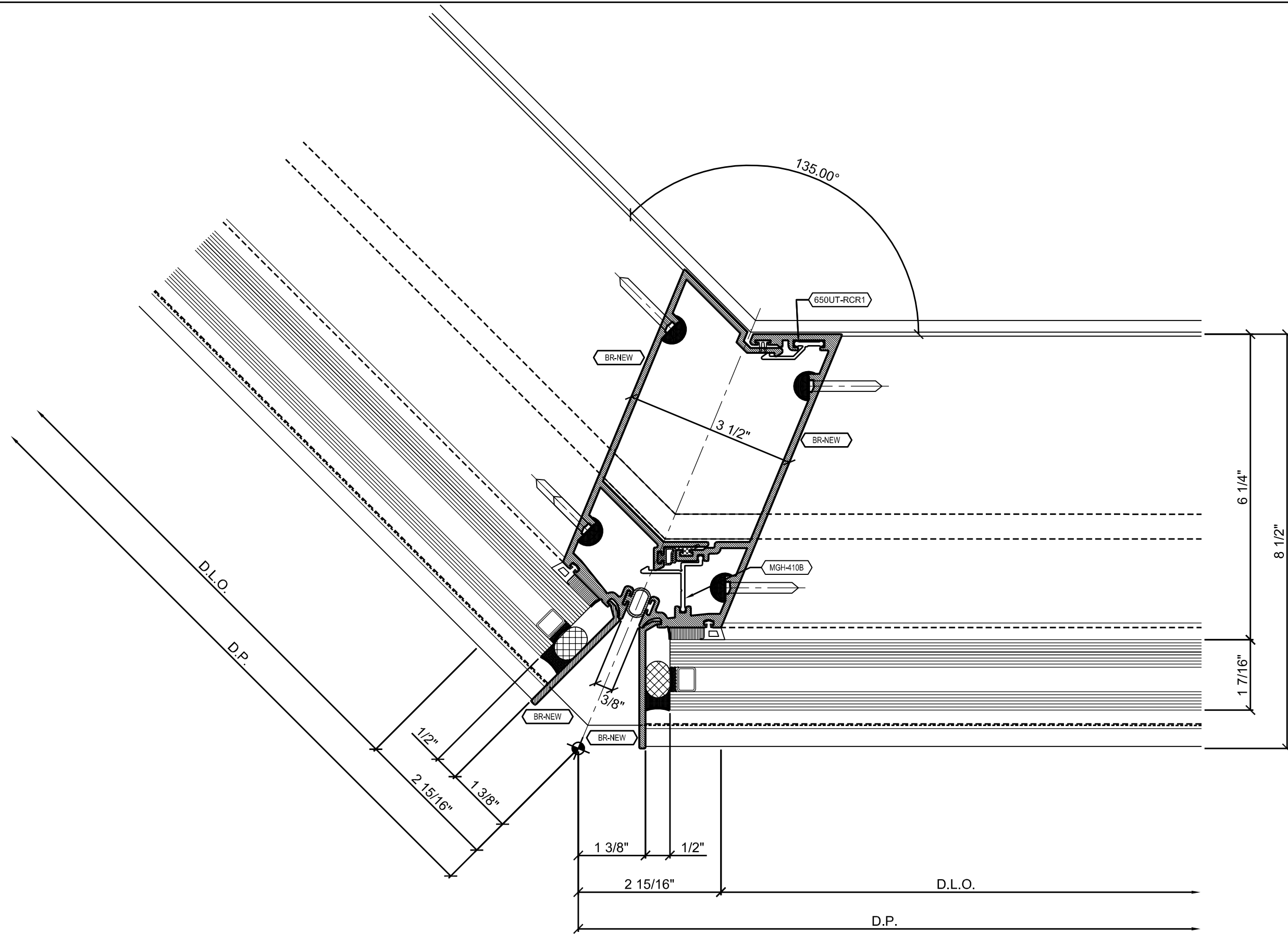
1 90° OUTSIDE WINDOW CORNER (AIRSIDE)  
 ARCH. REF:





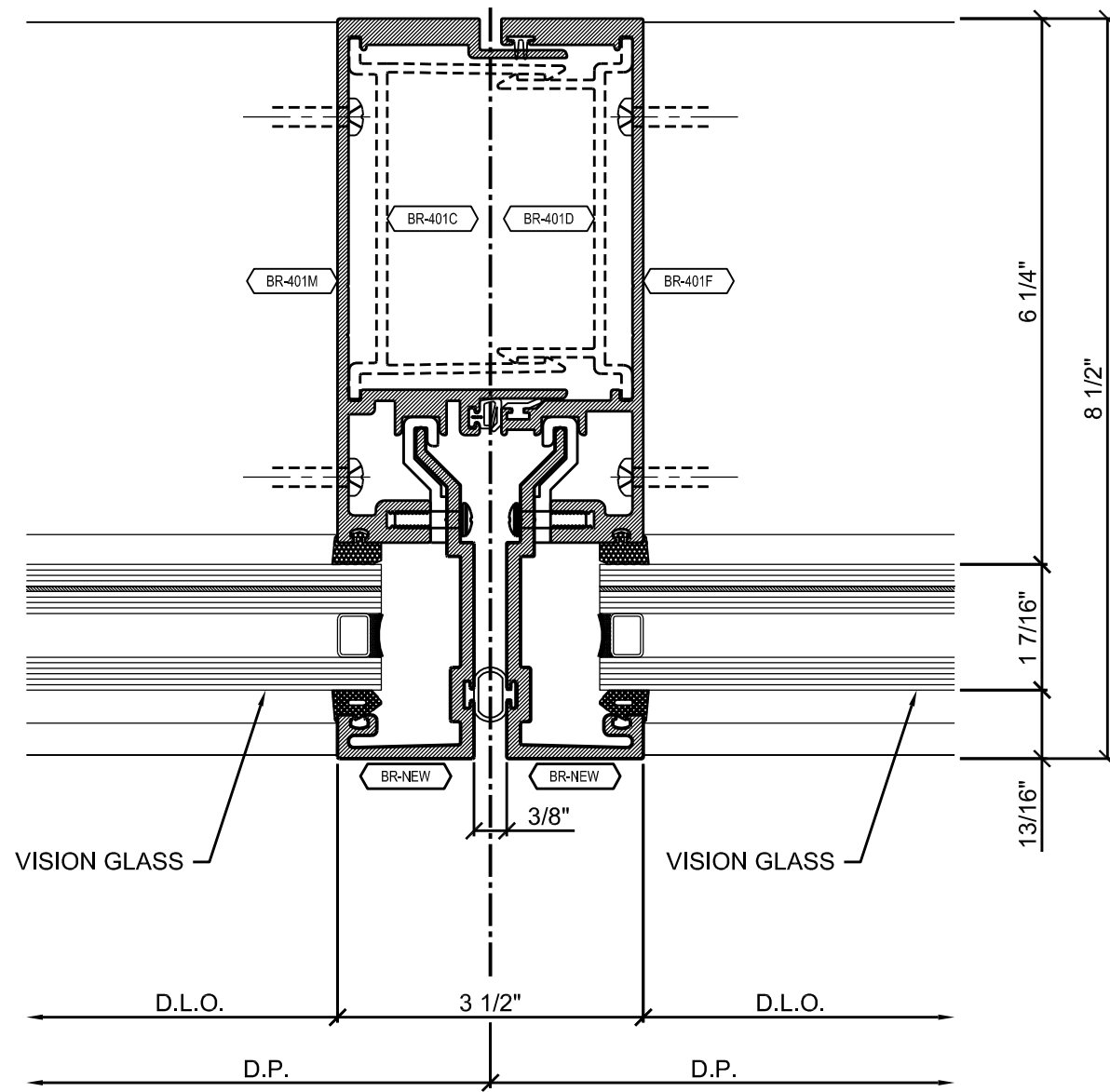
1 135° INSIDE WINDOW CORNER (AIRSIDE)  
 ARCH. REF:





1 135° OUTSIDE WINDOW CORNER (AIRSIDE)  
 ARCH. REF:





1 WINDOW VERTICAL (AIRSIDE)  
 ARCH. REF: 5/A08.0.10



A long-exposure photograph of a fireworks display at night. The sky is filled with numerous bright, white, and blue light trails that form intricate, swirling patterns. The fireworks are reflected in a body of water in the middle ground. In the foreground, there is a field of tall, dark grass. The background shows a distant shoreline with some lights and a small structure. The text "THANK YOU" is overlaid in the center of the image.

THANK YOU