



STOREFRONTS

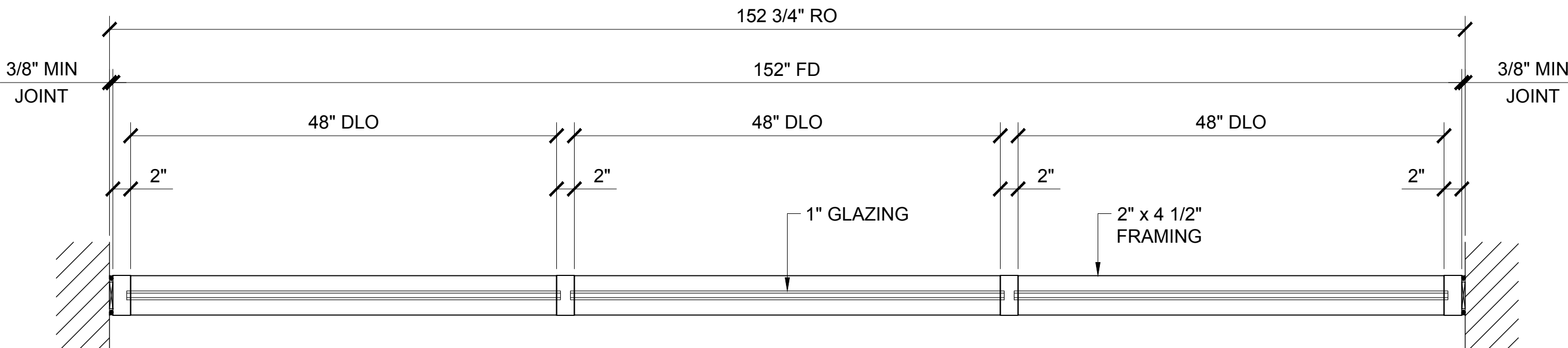
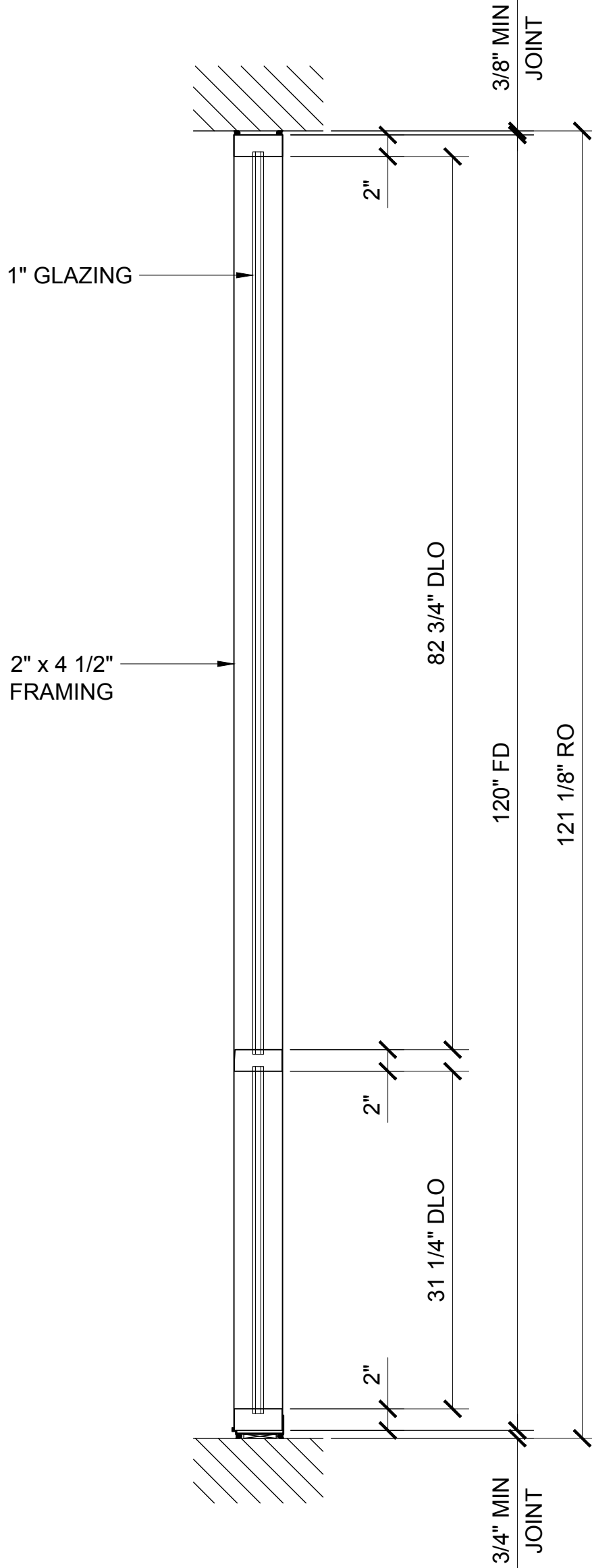
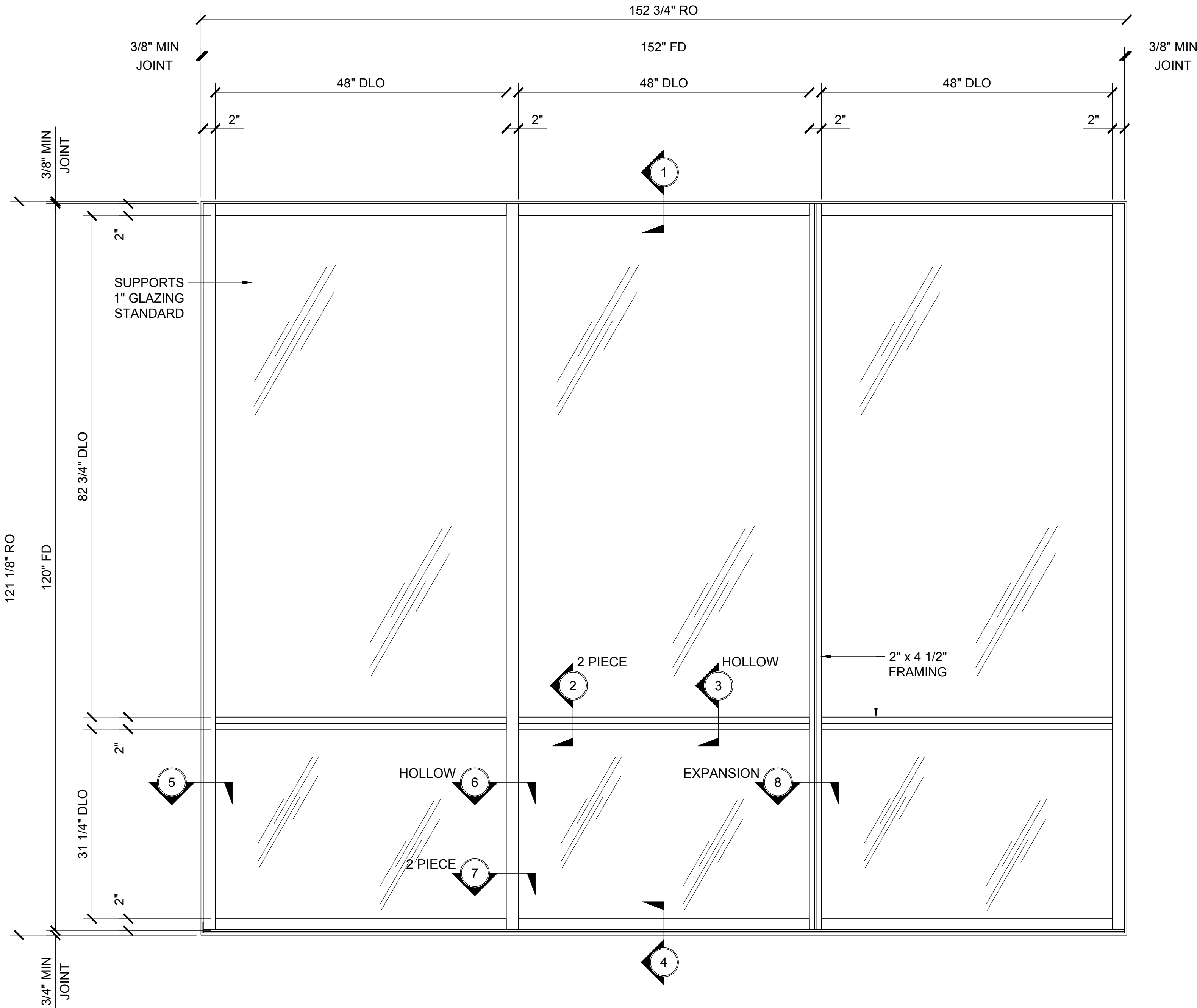
SERIES IT451 CENTER / EXTERIOR GLAZED SHEAR BLOCK STOREFRONT SYSTEM

IT451 SERIES SPECIFICATIONS

Series IT451 offers improved thermal performance using the Poly-Aluminizer™. United States Aluminum offers cost efficient versatile Center Glazed Systems with clean lines and superb performance. Series IT451 may be interior or exterior glazed. A top load EPDM gasket is used to position and weatherseal the glass in the aluminum pocket. Center Glazed Systems are compatible with most Unites States Aluminum entrance doors.

- 2" x 4 1/2" frame
- 1" Glazing infill (SHOWN) Optional snap-in reducers for 1/4" or 1/2" glass are available
- Struct-Link™ thermal break
- Full range of accessory components
- Available in an array of architectural coatings and anodized finishes
- Screw spline assembly
- Shear block assembly (SHOWN)
- Stacking installation option
- Interior or Exterior Glazed (EXTERIOR GLAZED OPTION SHOWN)

GLASS SIZING NOTE:
REFERENCE U.S. ALUMINUM
CATALOGS AND WEBSITE'S
LOAD CHARTS FOR SIZING
GUIDELINES.



STANDARD ABBREVIATIONS

- | | |
|------|---------------------------|
| RO | ROUGH OPENING |
| FD | FRAME DIMENSION |
| DLO | DAYLITE OPENING |
| DO | DOOR OPENING |
| DD | DOOR DIMENSION |
| SMC | SURFACE MOUNTED CLOSER |
| OHCC | OVERHEAD CONCEALED CLOSER |

Revisions By:



Discription:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

Drawn By: AAD

Date: 1/23/15

Scale: AS NOTED

File Name: SERIES IT451 CENTER
GLAZED STOREFRONT SYSTEM.dwg

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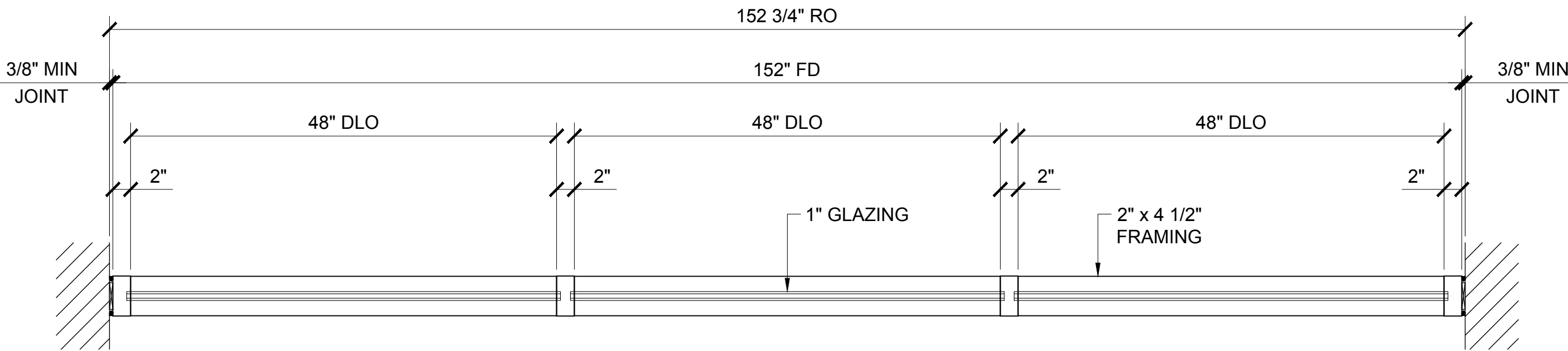
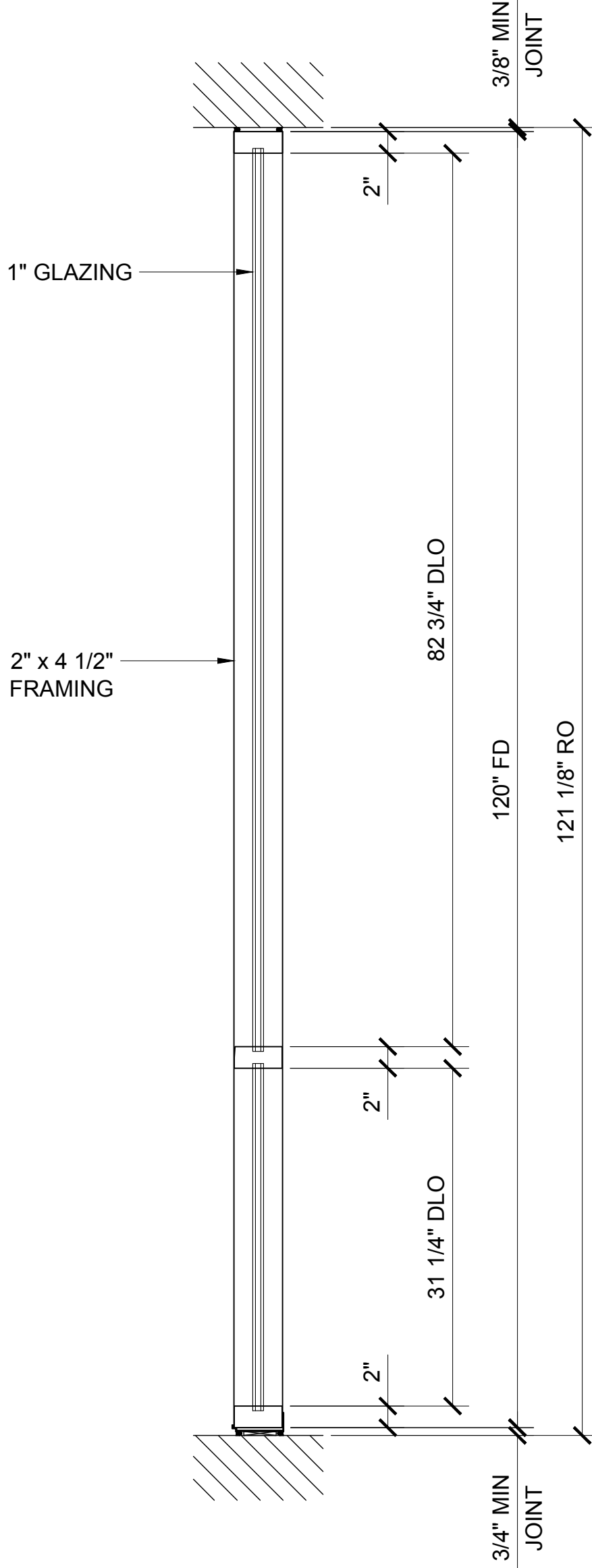
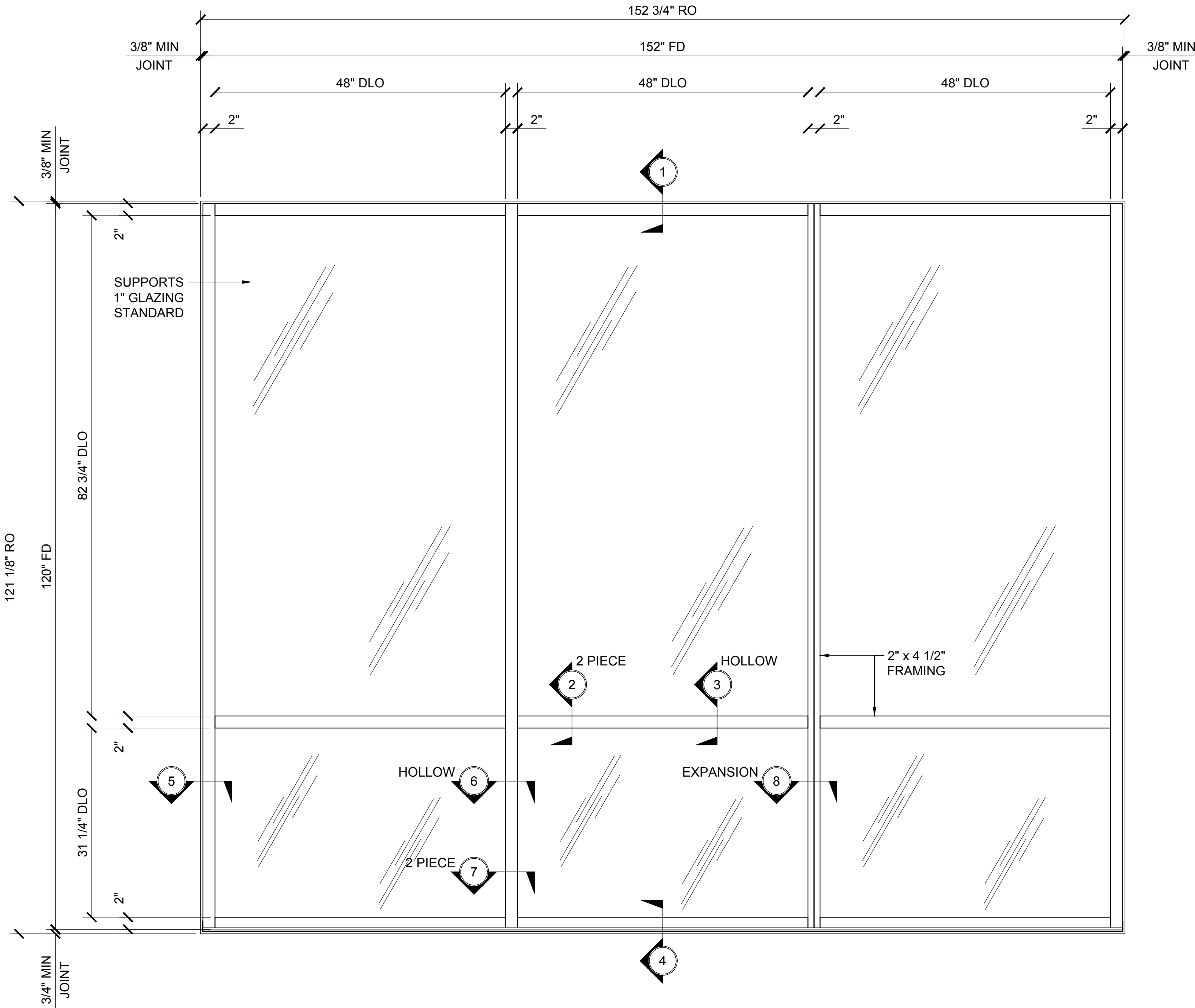
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Revisions By:

SECTION DETAIL AT SILL 4SECTION DETAIL AT JAMB 5SECTION DETAIL AT
EXPANSION MULLION 8

2.2

SERIES IT451 CENTER / INTERIOR GLAZED SHEAR BLOCK STOREFRONT SYSTEM

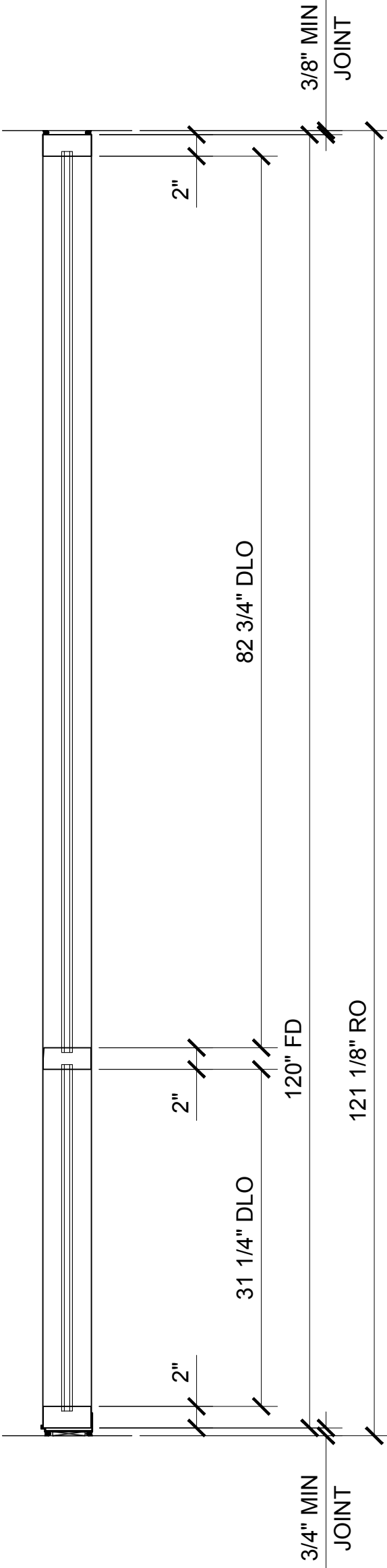
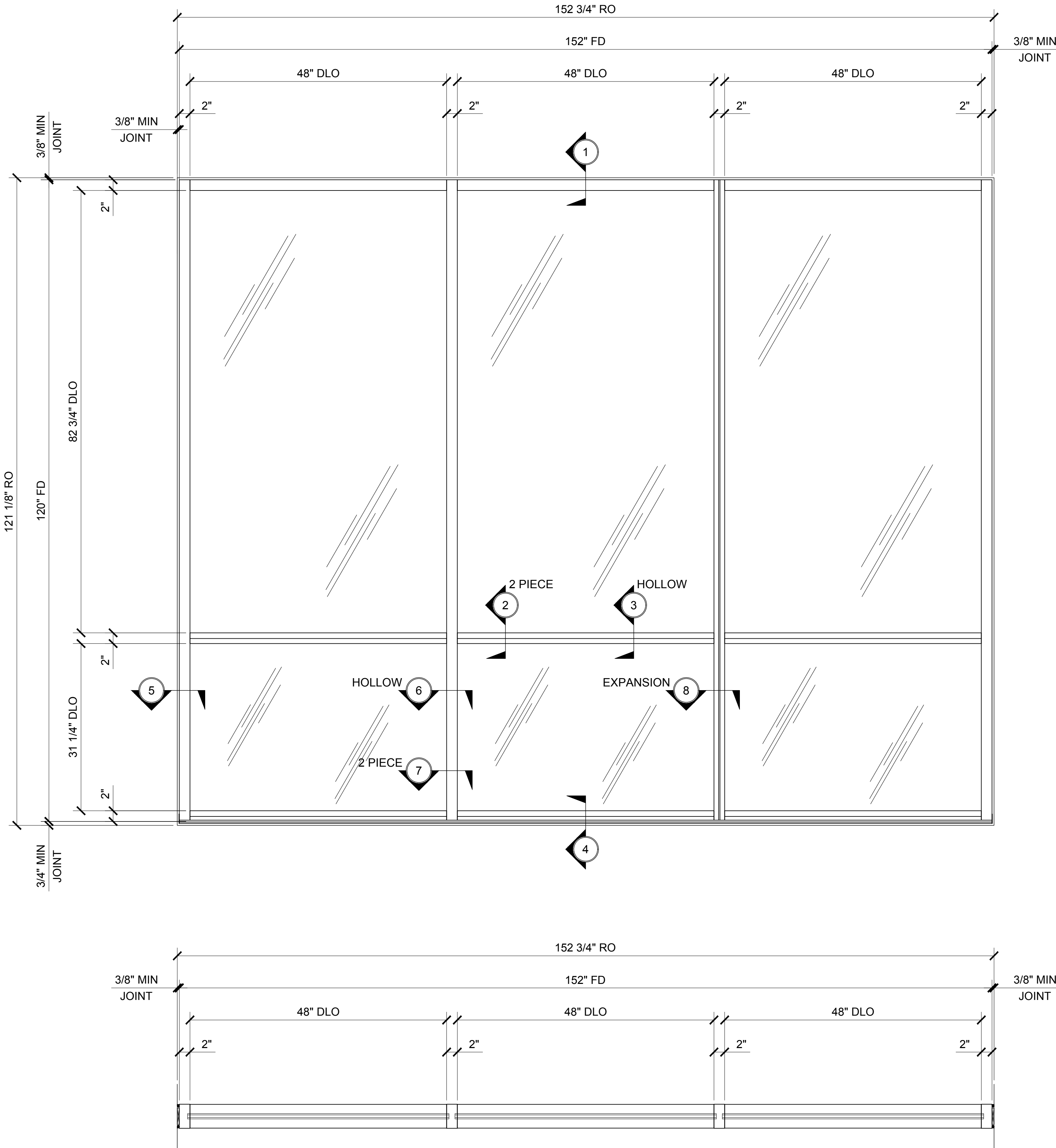
SERIES IT451 CENTER / EXTERIOR GLAZED SCREW SPLINE STOREFRONT SYSTEM

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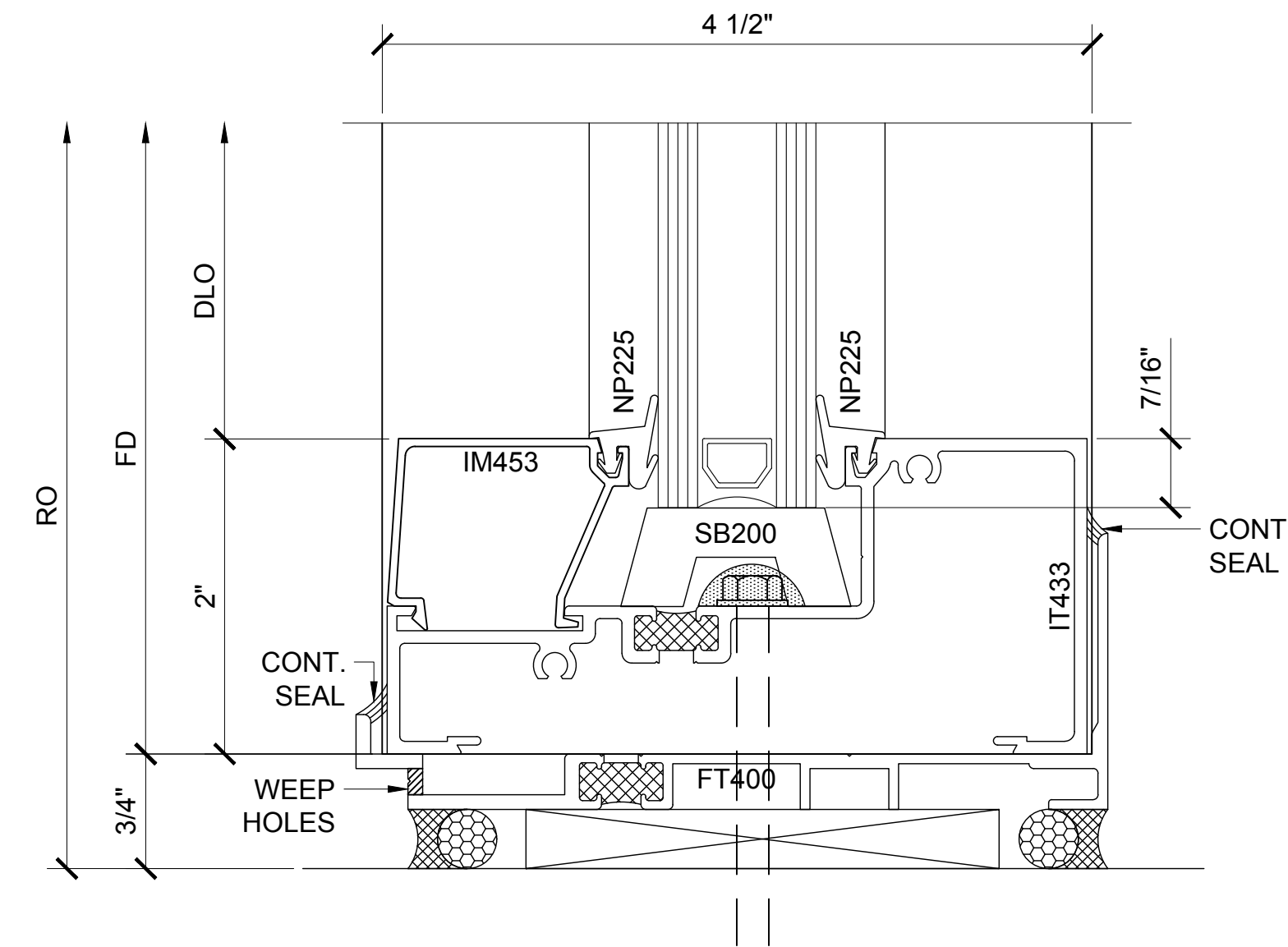
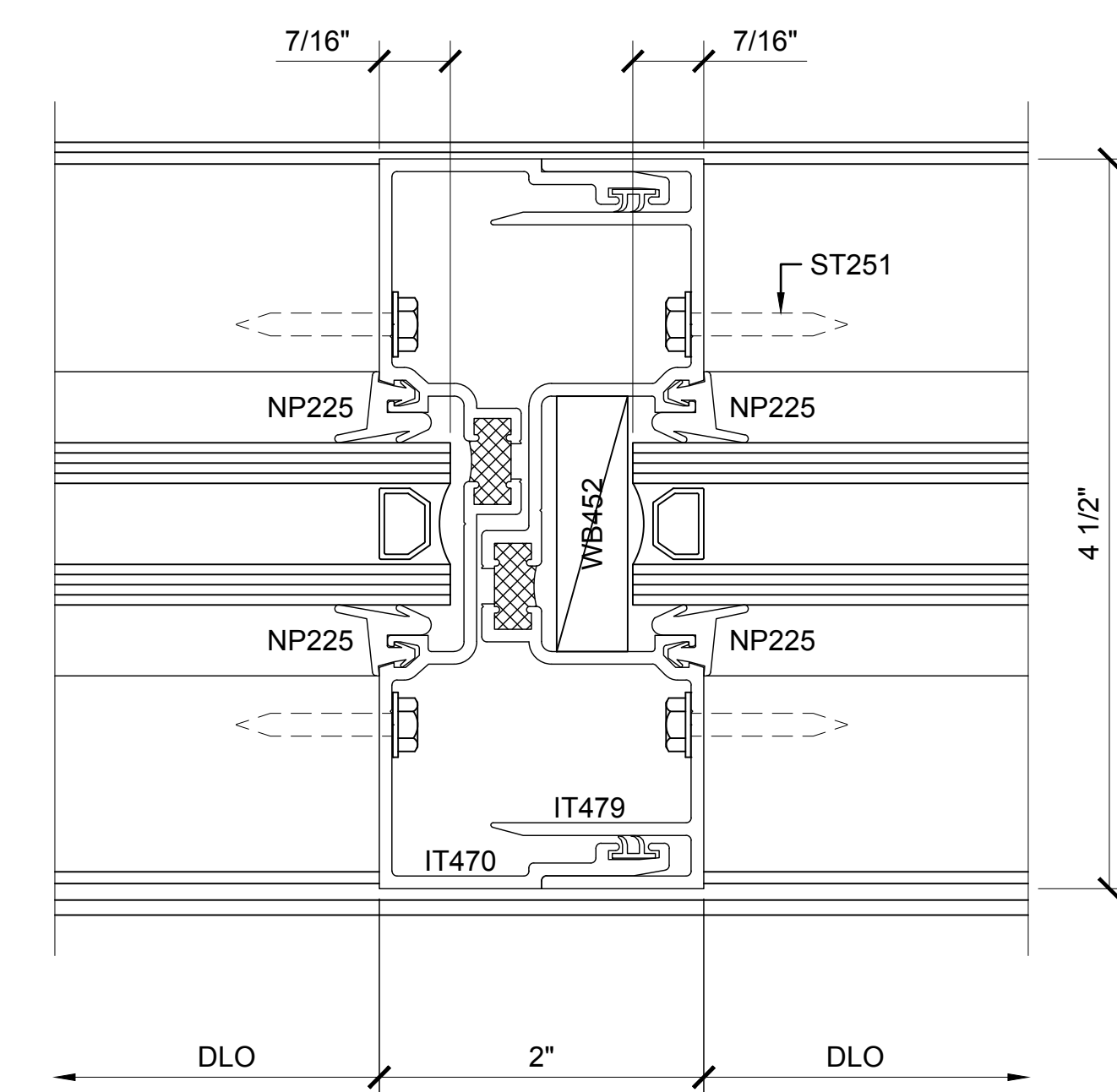
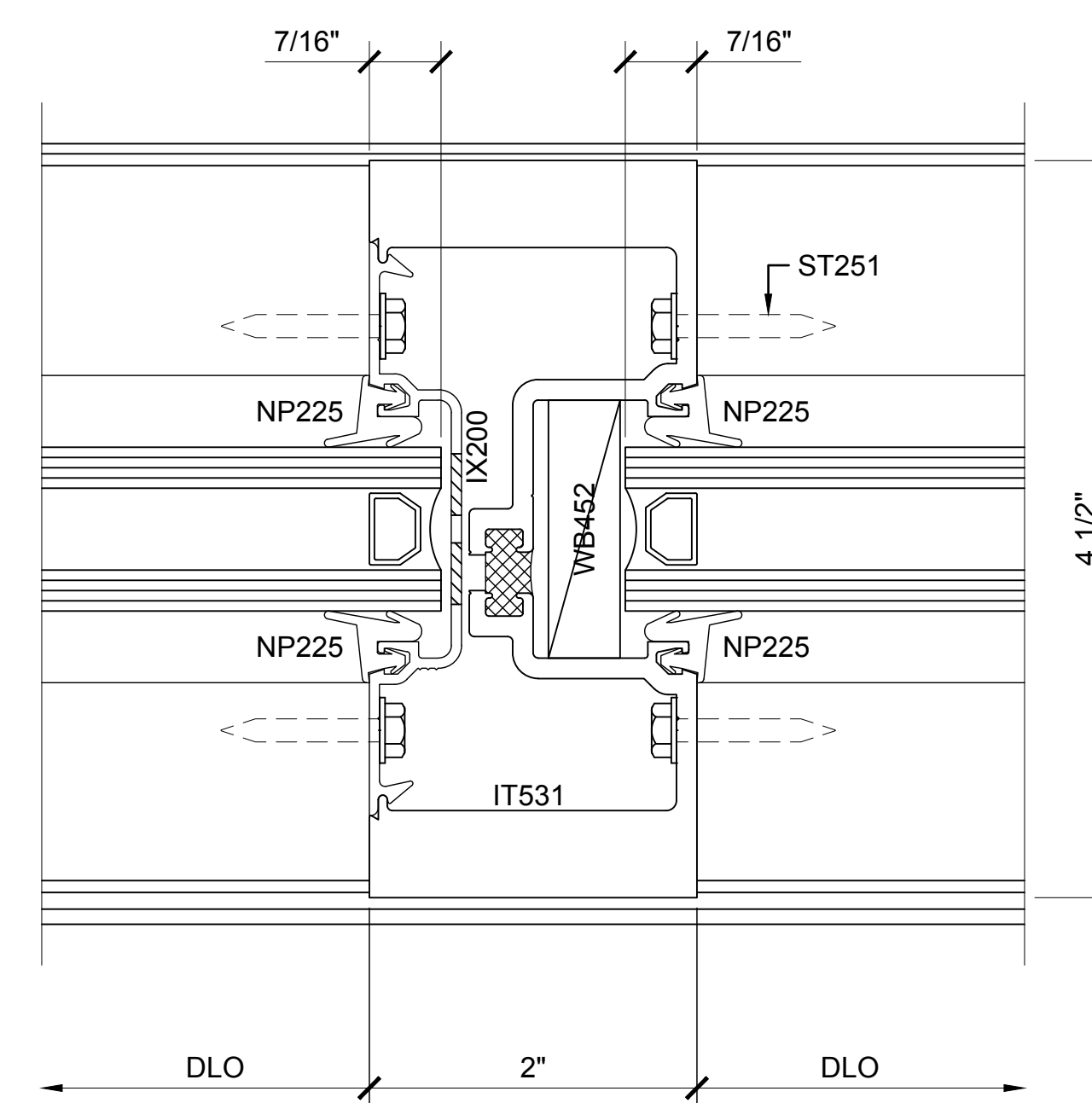
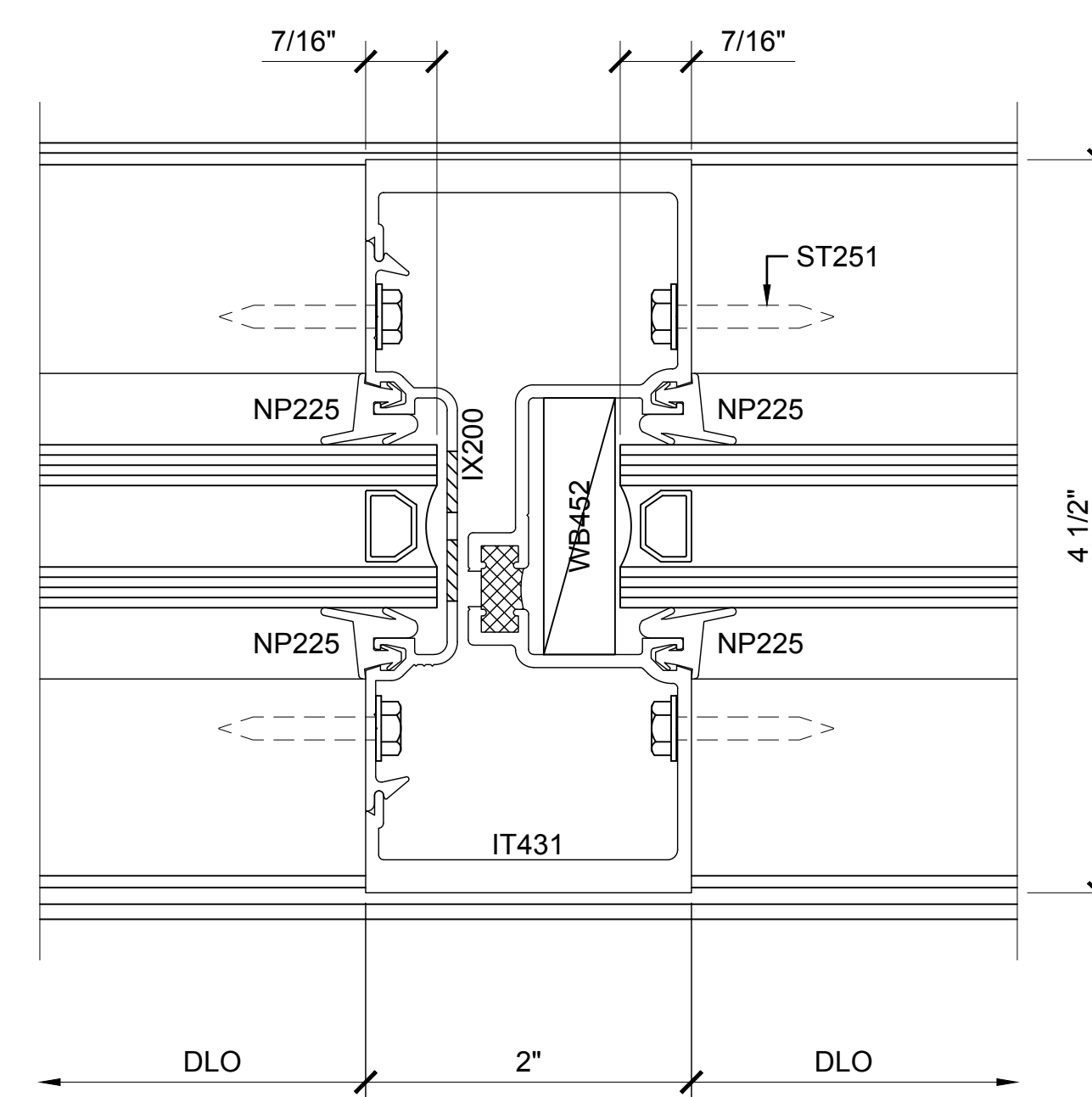
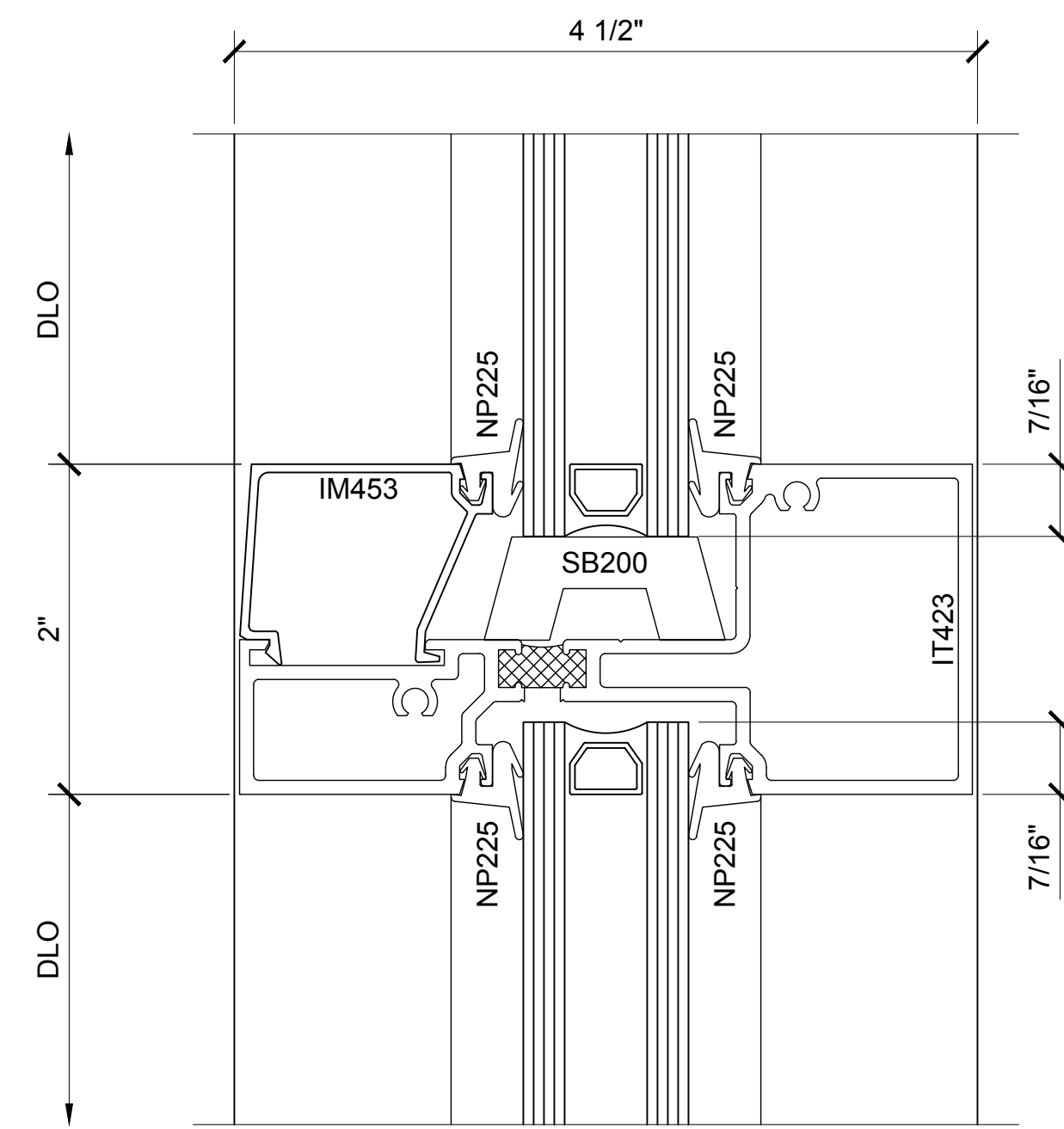
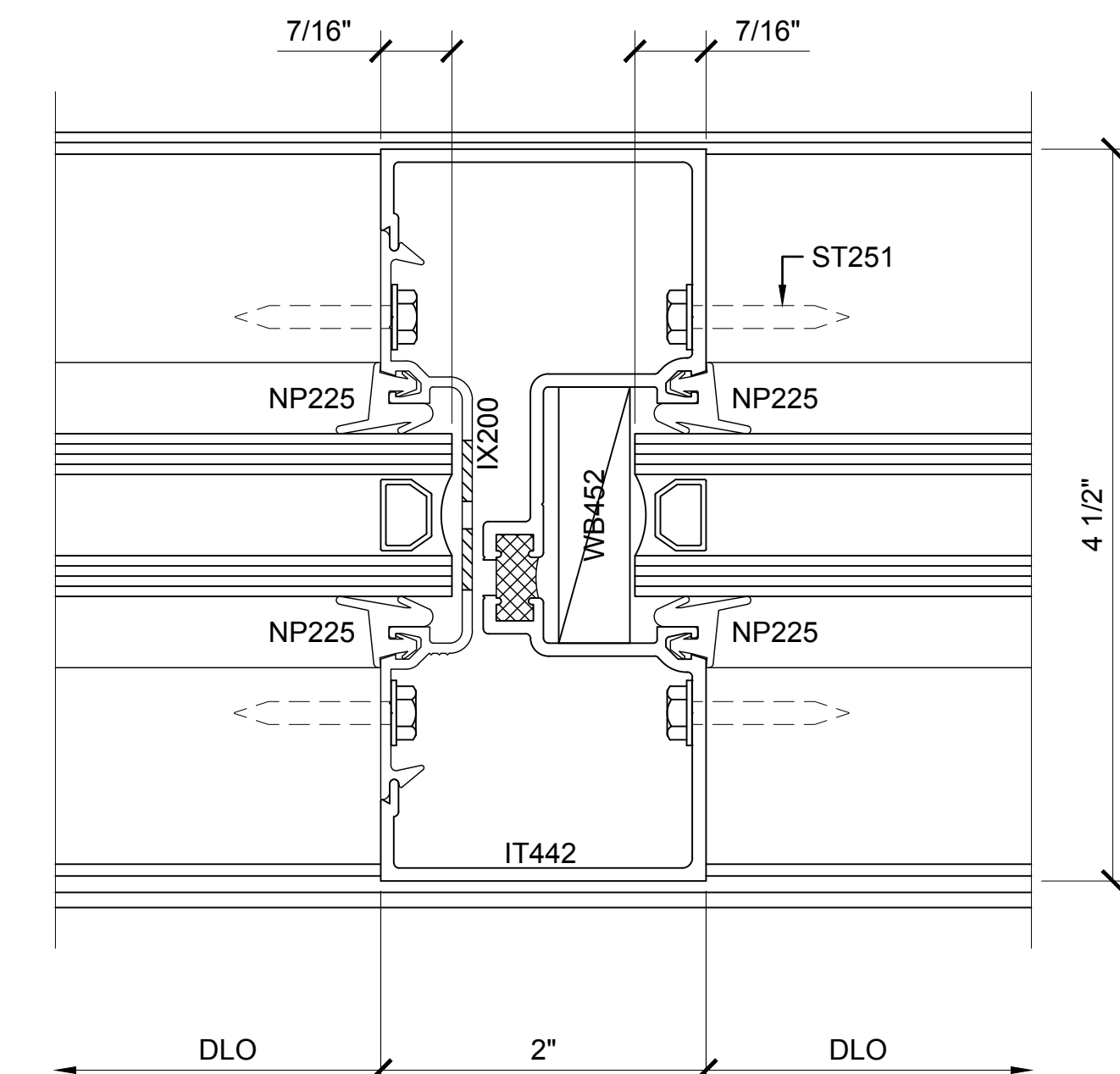
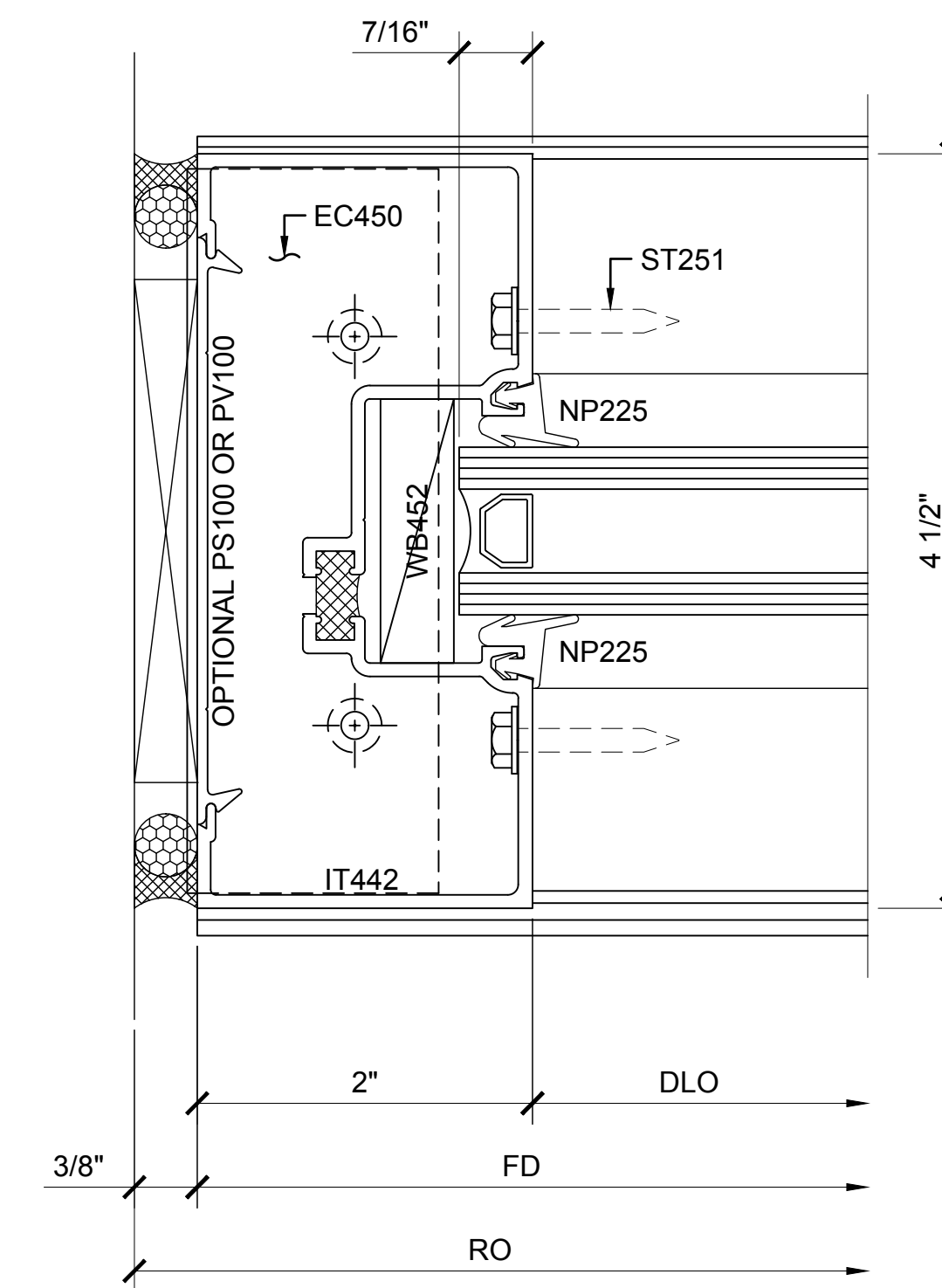
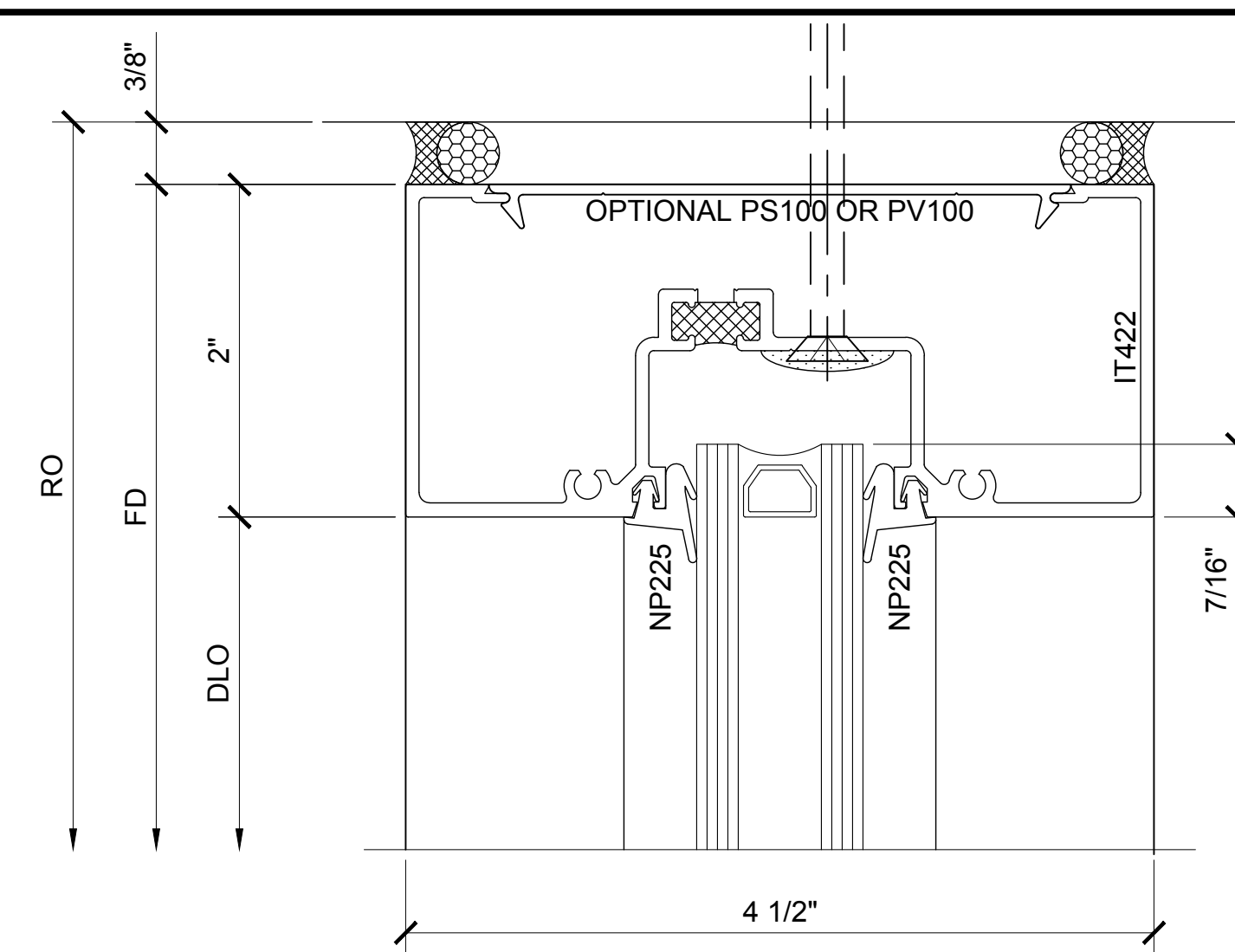
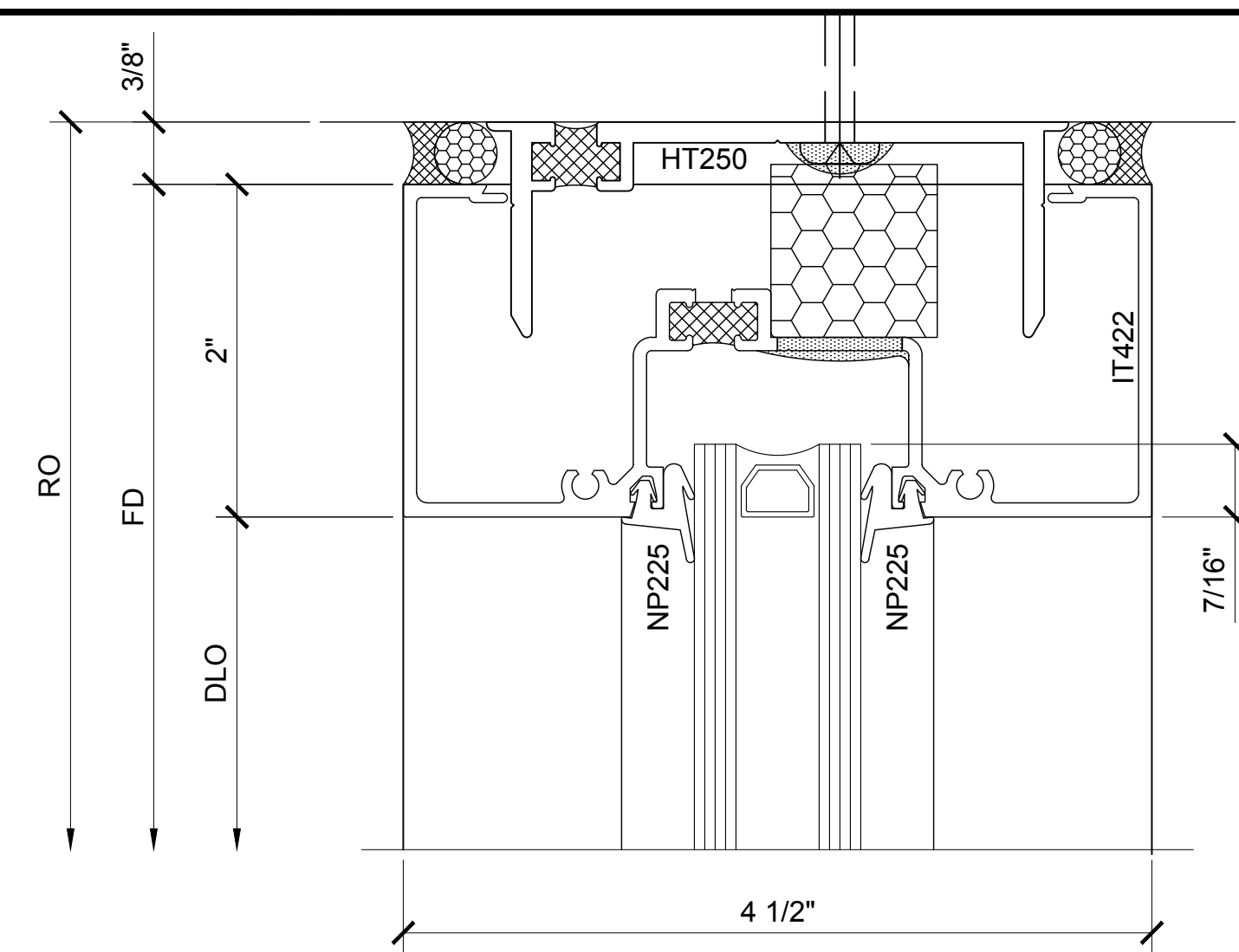
GLASS SIZING NOTE:
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LOAD CHARTS FOR SIZING
GUIDELINES.



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| DO | DOOR OPENING |
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| OHCC | OVERHEAD CONCEALED CLOSER |

Revisions By:



SERIES IT451 CENTER / EXTERIOR GLAZED SCREW SPLINE STOREFRONT SYSTEM

Revisions By:



2503 E. Vernon Avenue, Los Angeles, C.A 90058-1897
PH (800)-421-6144 FX: 800-587-7501 www.crlaurence.com

Discription:

U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

Drawn By:	AAD
Date:	1/23/15
Scale:	AS NOTED
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3.2



STOREFRONTS

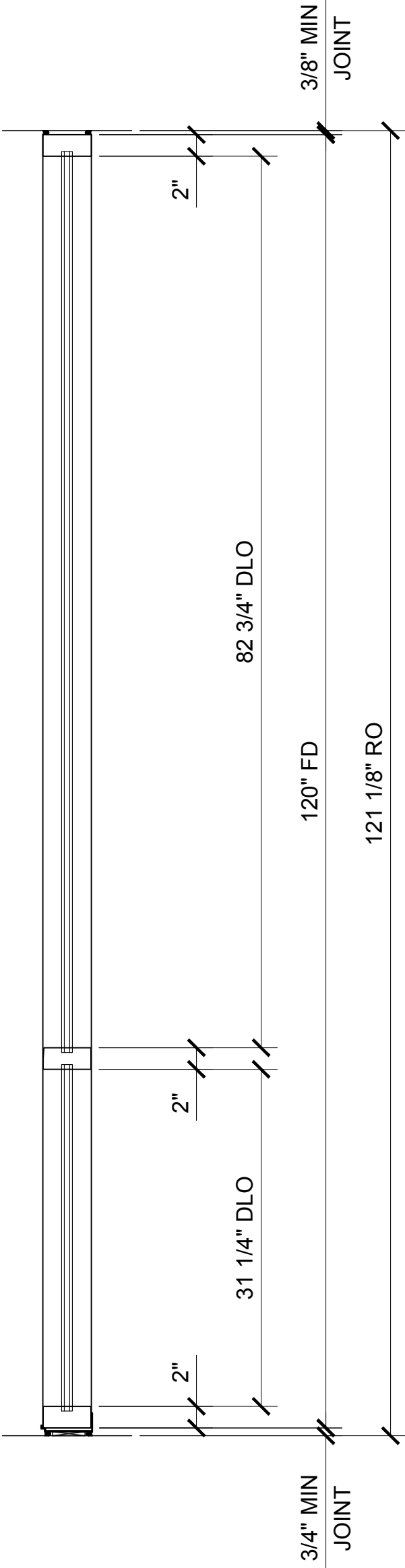
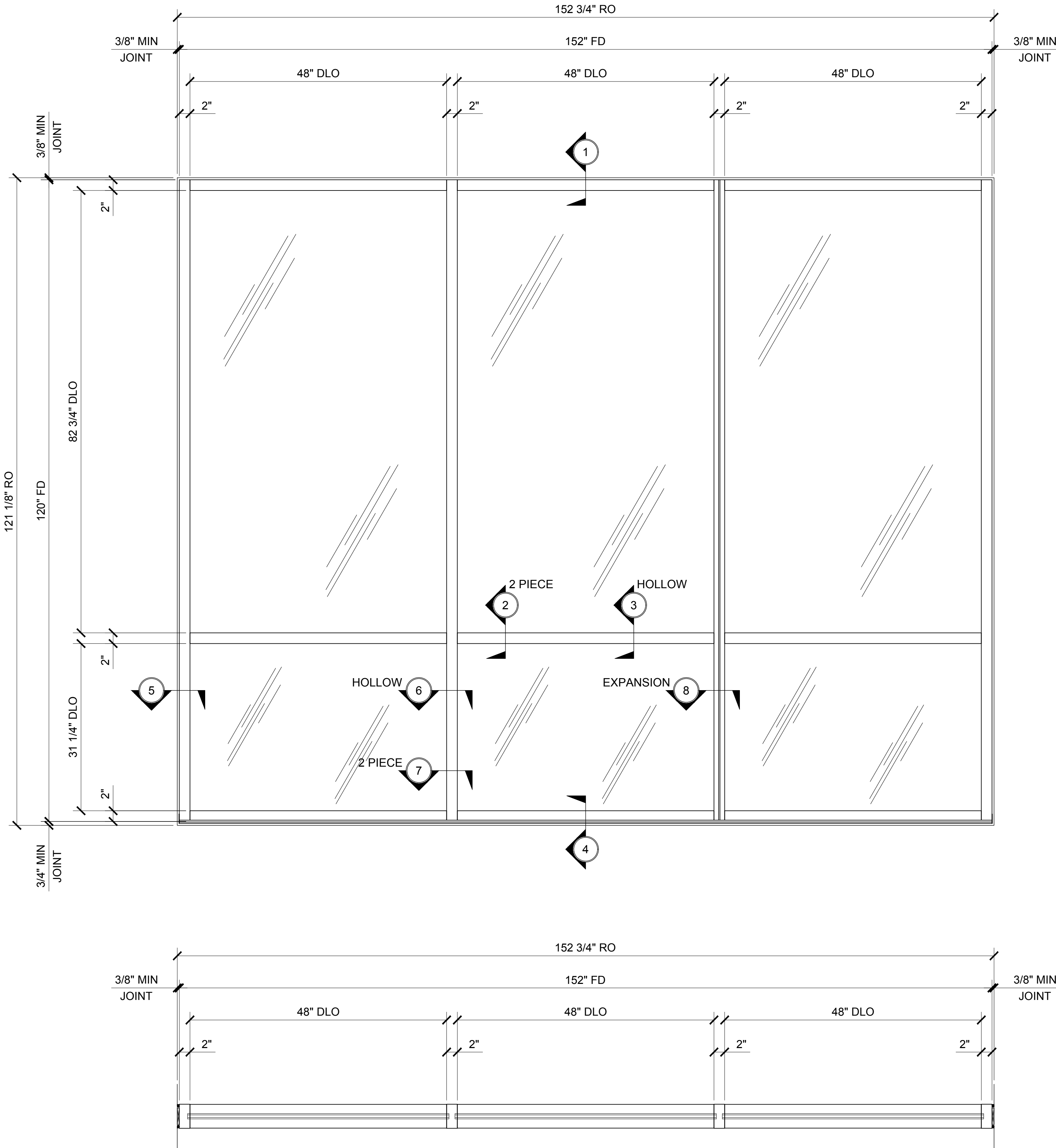
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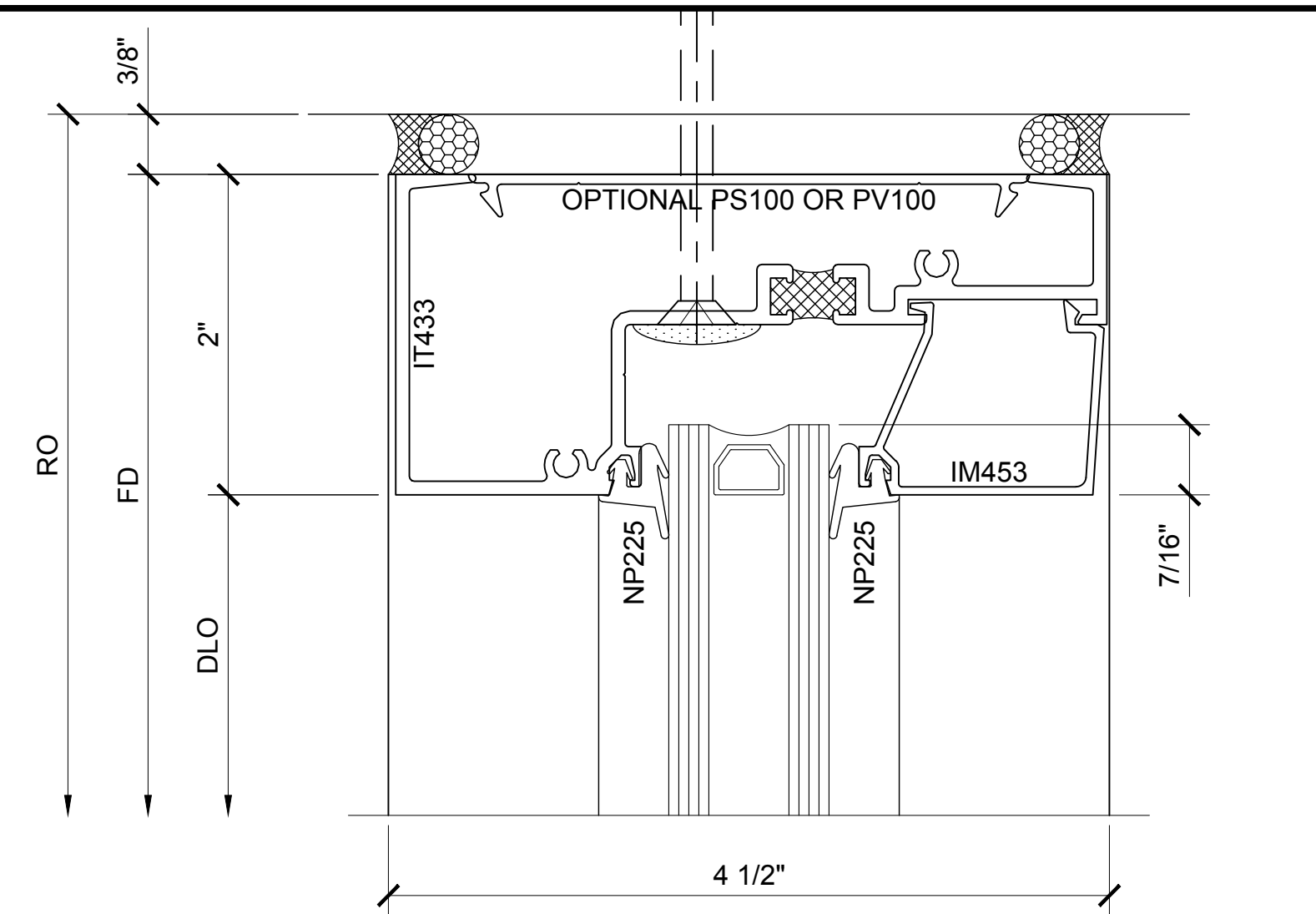
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U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
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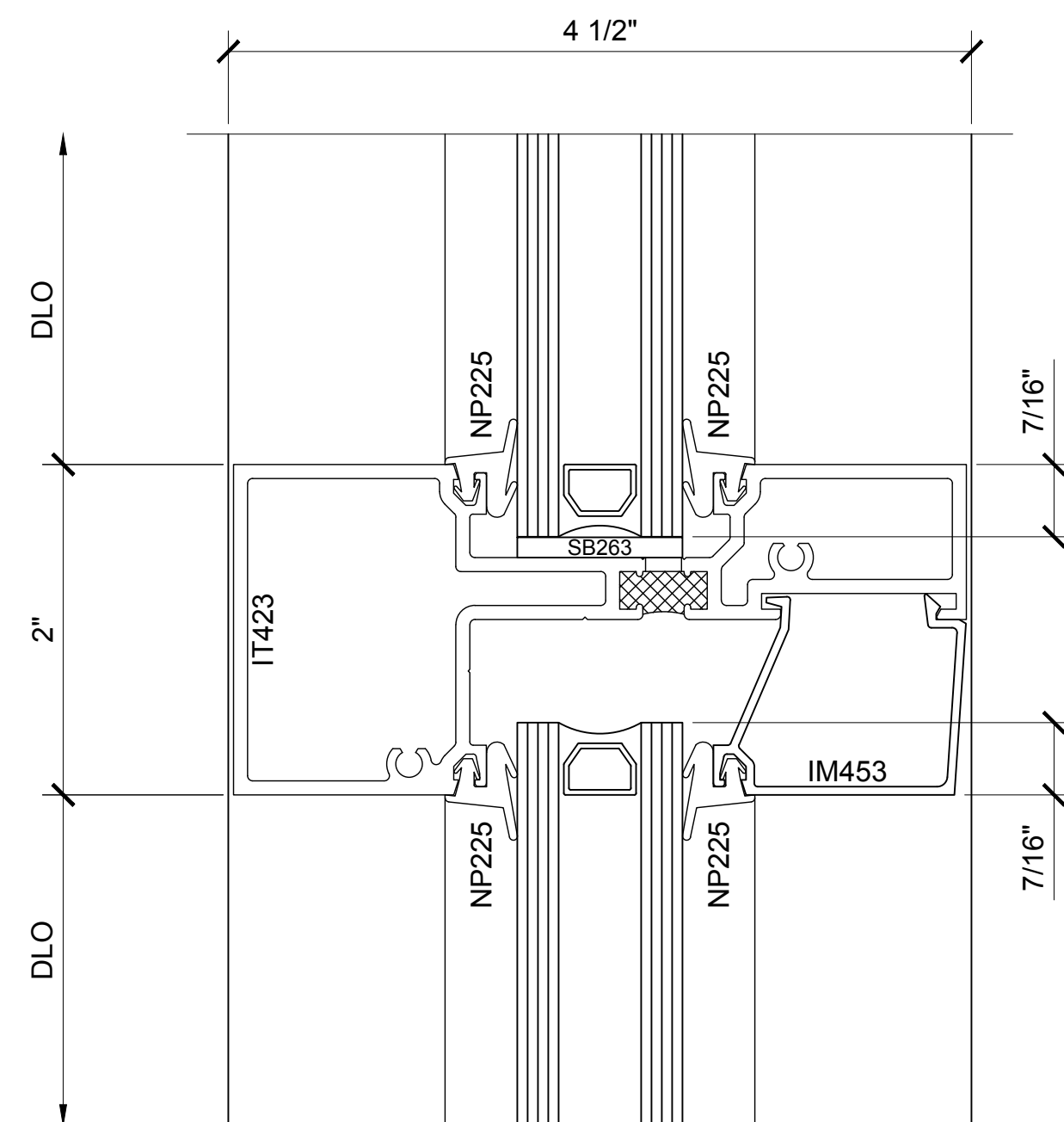
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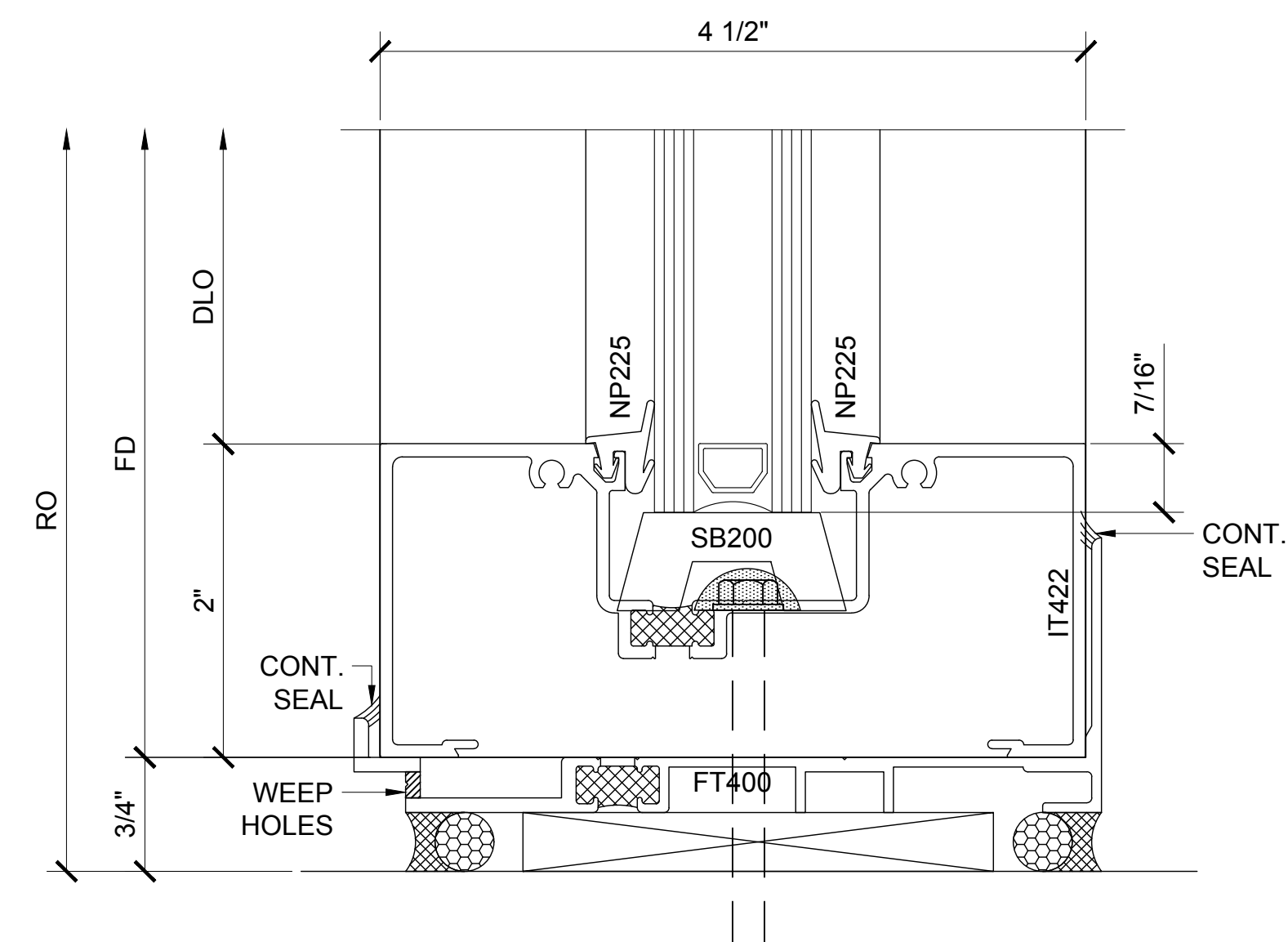
SECTION DETAIL AT HEAD

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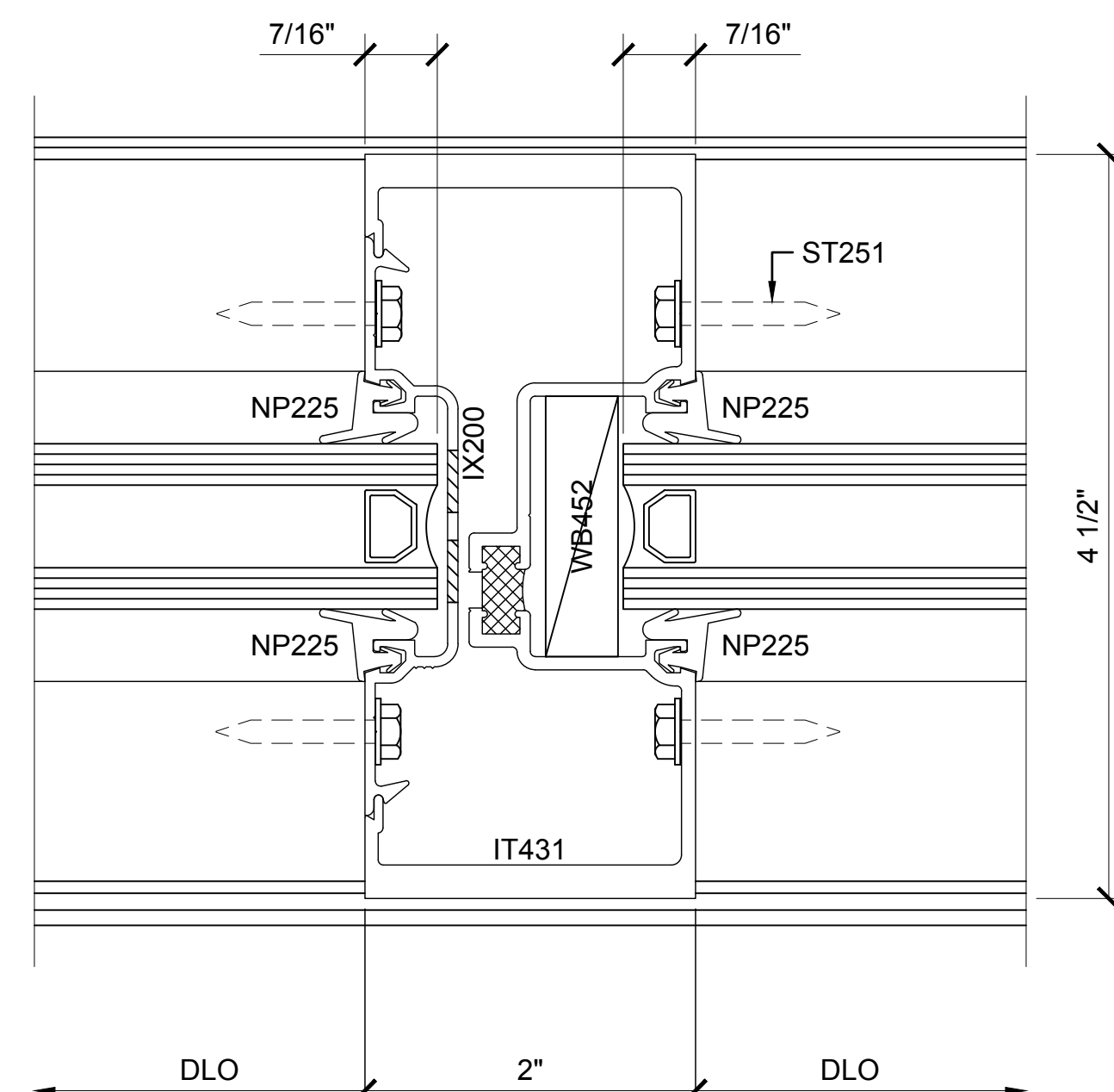
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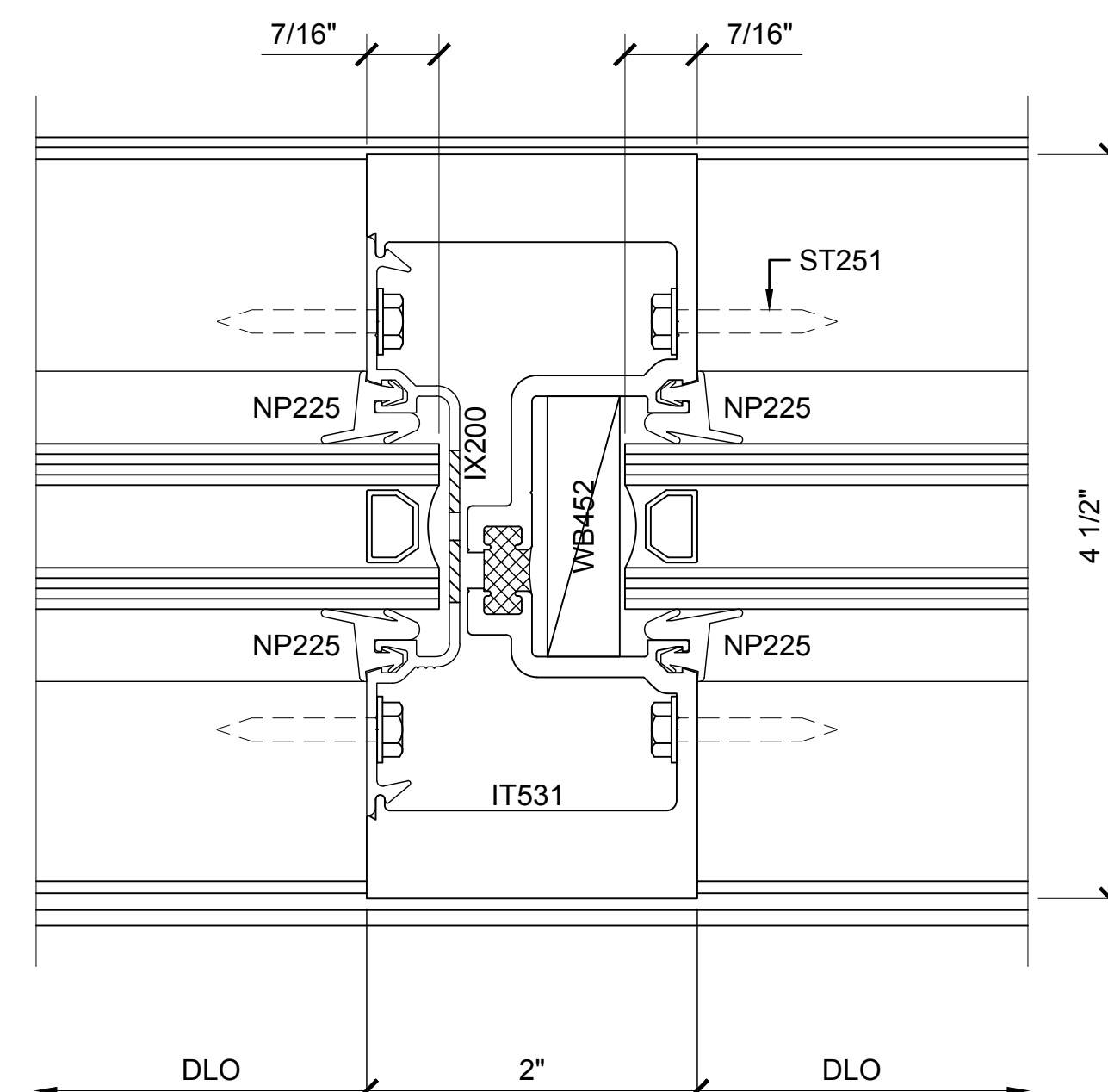
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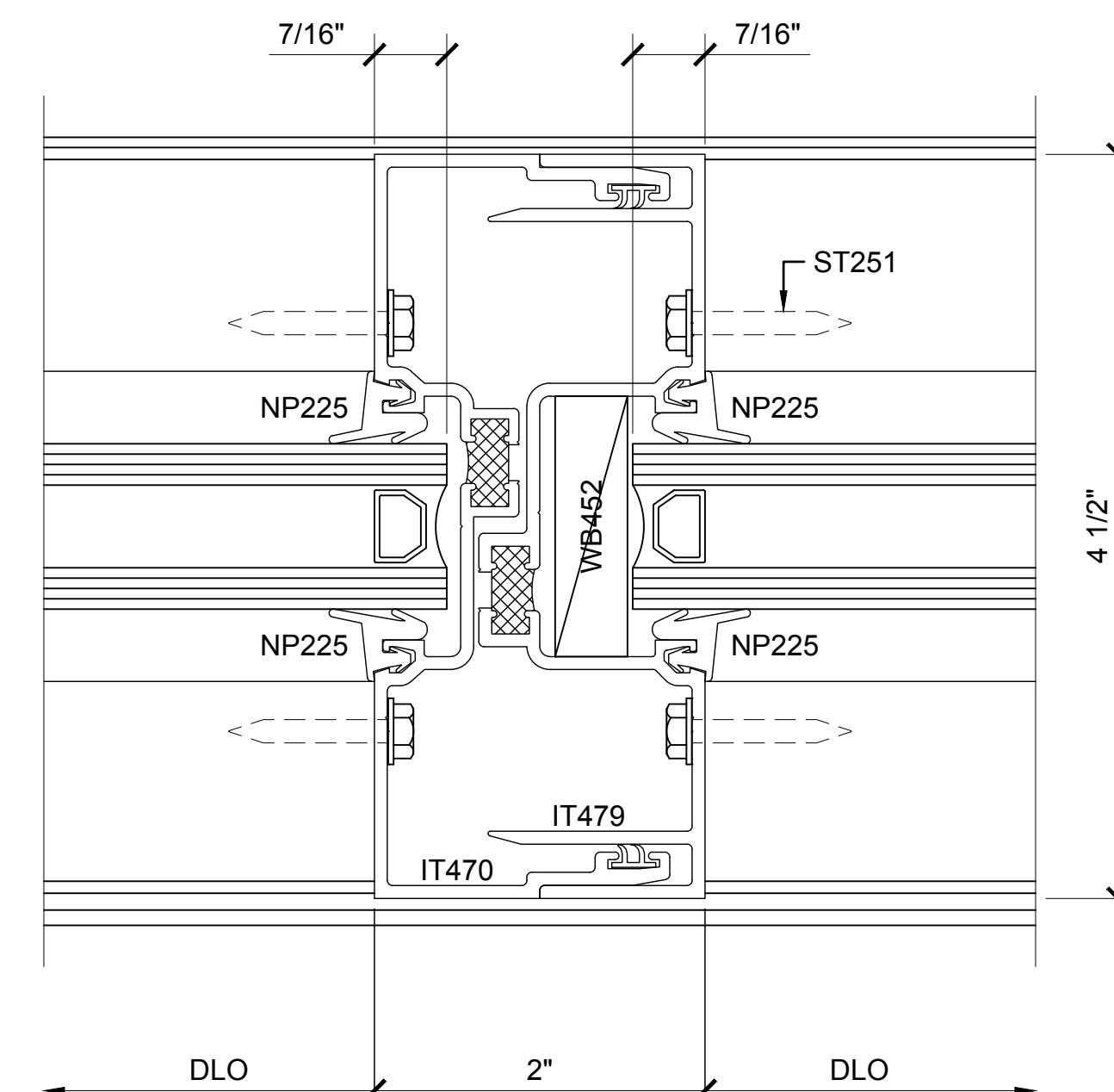
SECTION DETAIL AT INTERMEDIATE VERTICAL

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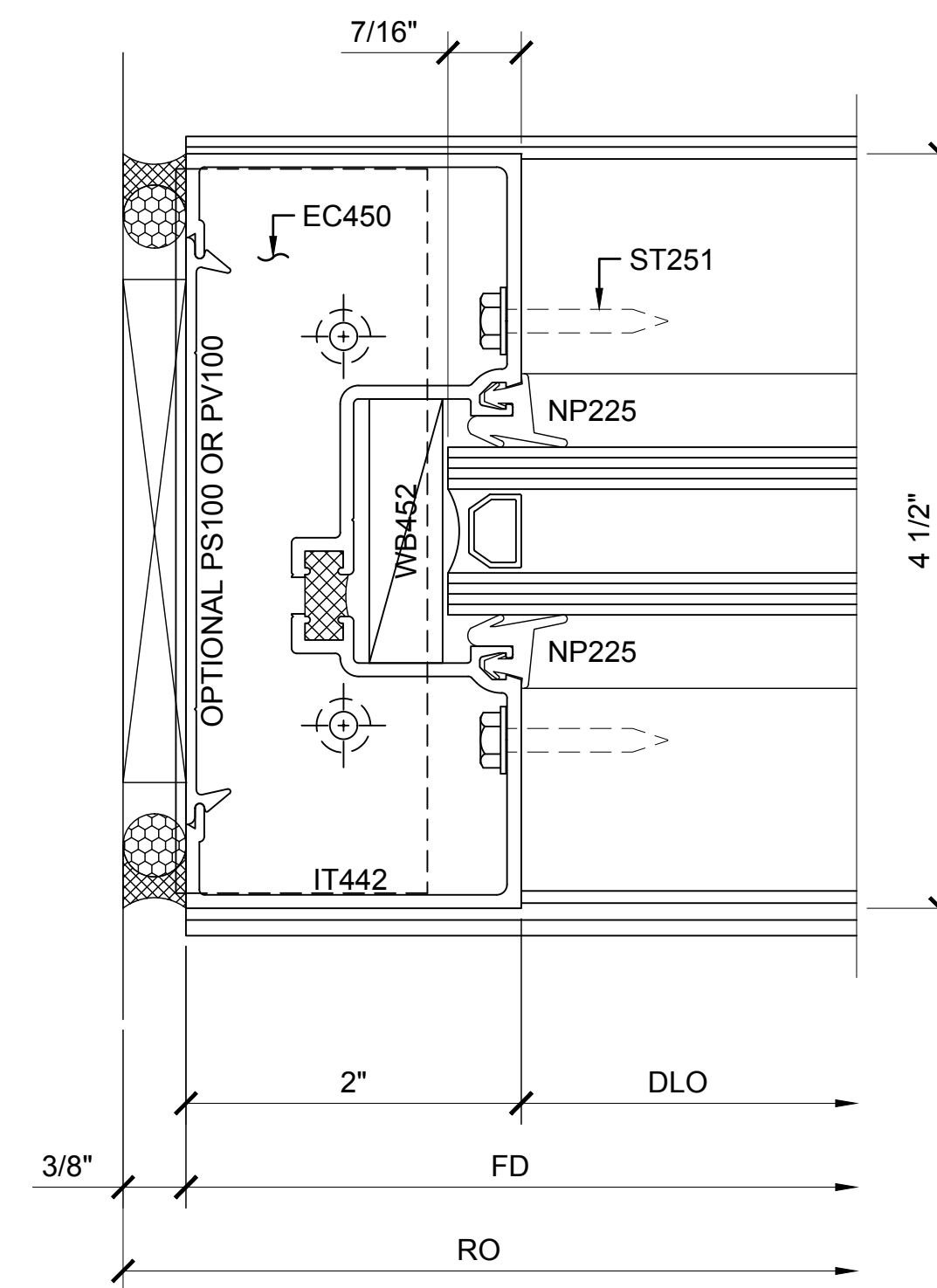
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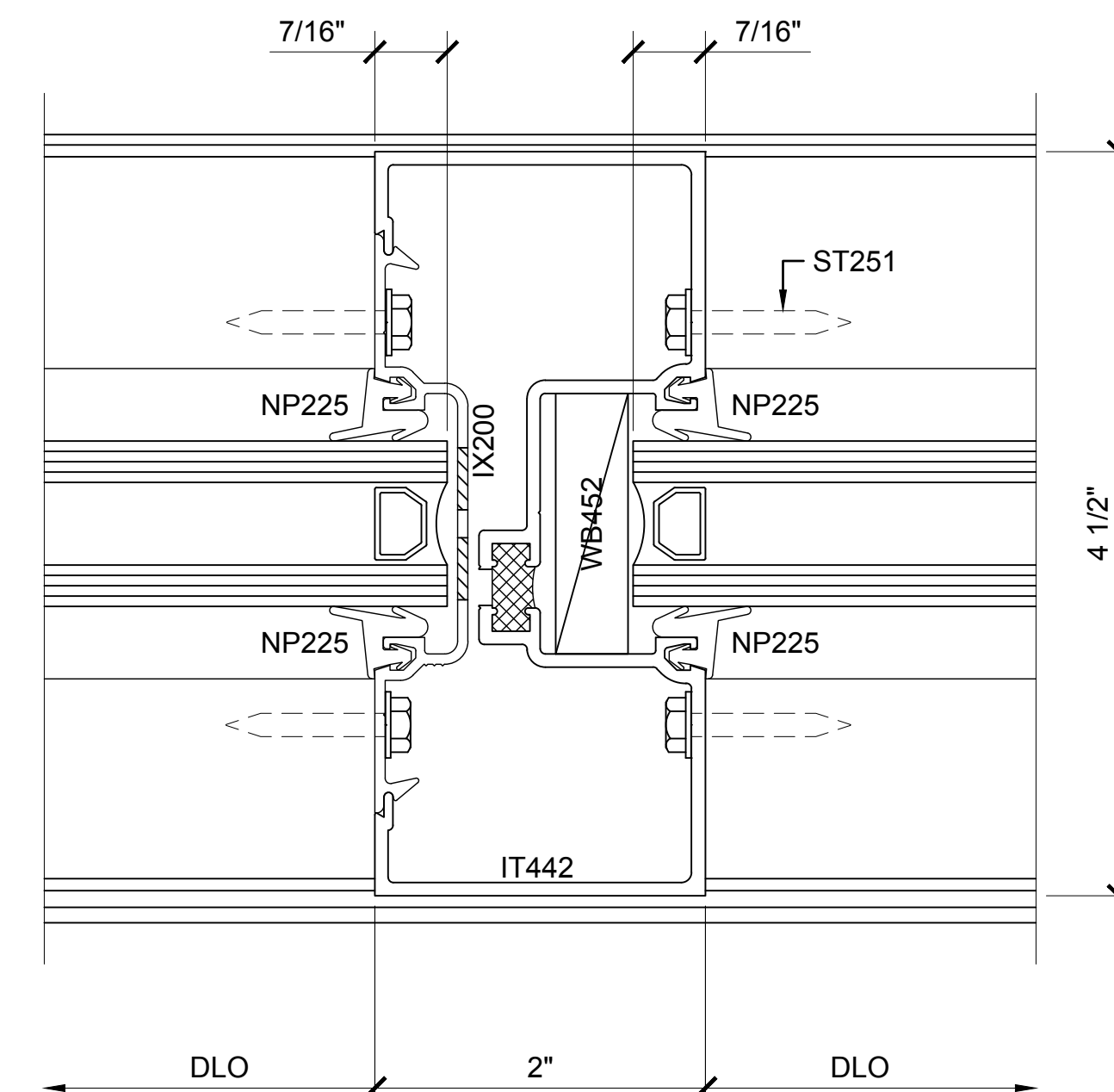
SECTION DETAIL AT EXPANSION MULLION

9



SECTION DETAIL AT JAMB

5



SECTION DETAIL AT INTERMEDIATE VERTICAL

6

SERIES IT451 CENTER / EXTERIOR GLAZED SCREW SPLINE STOREFRONT SYSTEM

Revisions By:

U.S. ALUMINUM
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS
2503 E. Vernon Avenue, Los Angeles, CA 90058-1897
PH (800) 421-6144 FX 800-587-7301 www.crlaurence.com

Discription:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

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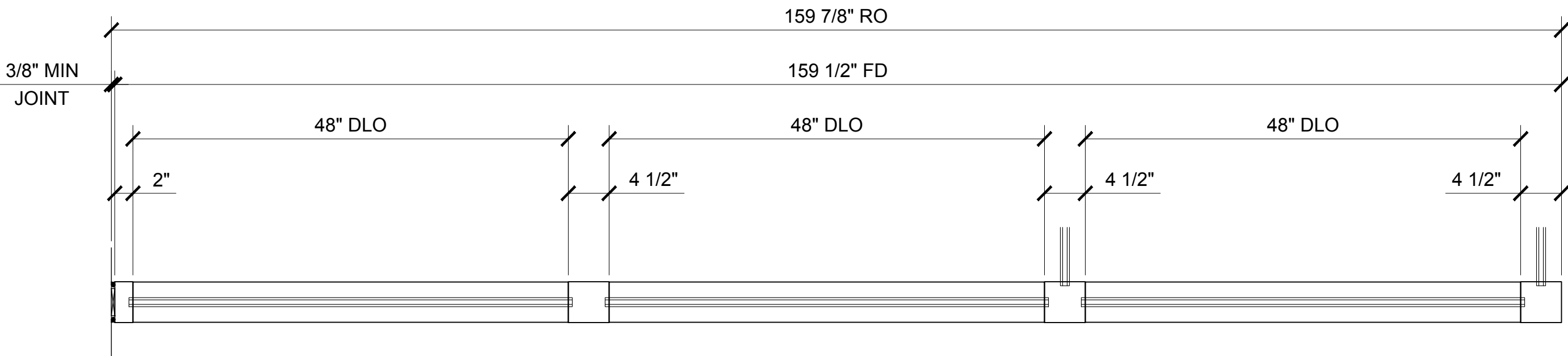
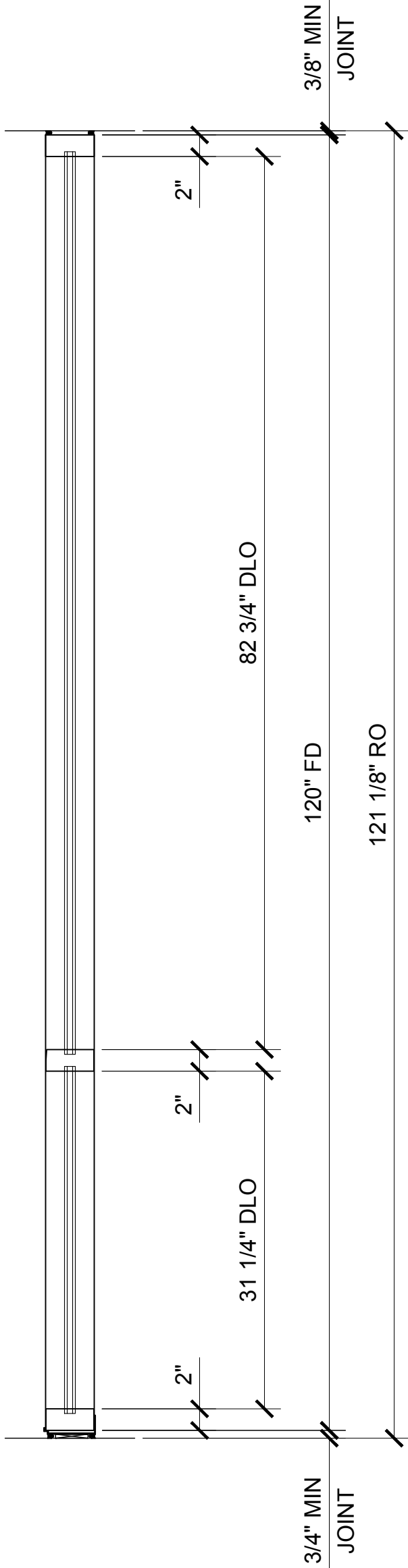
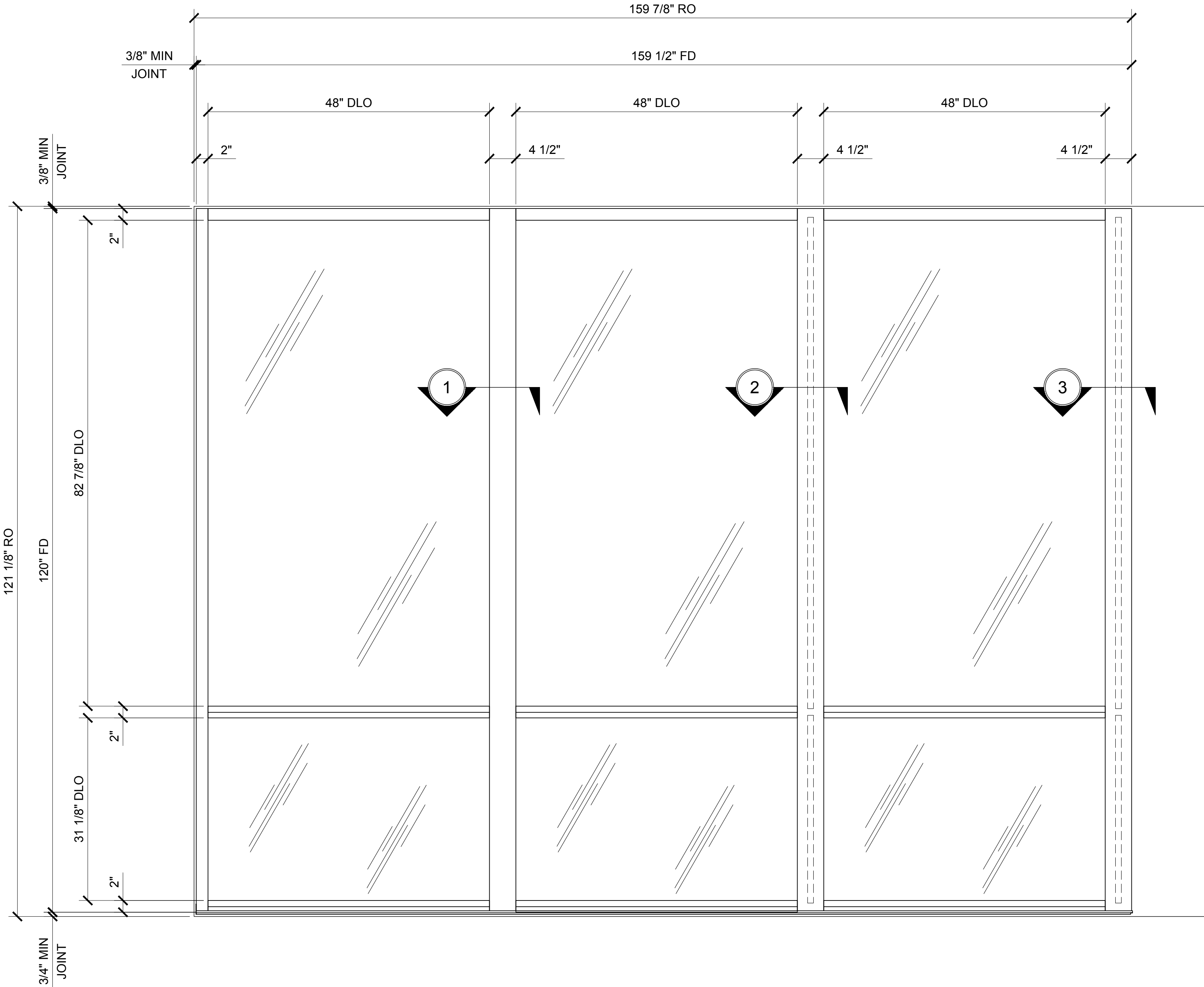
SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM WIDE STYLE MULLIONS

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- Interior or Exterior Glazed

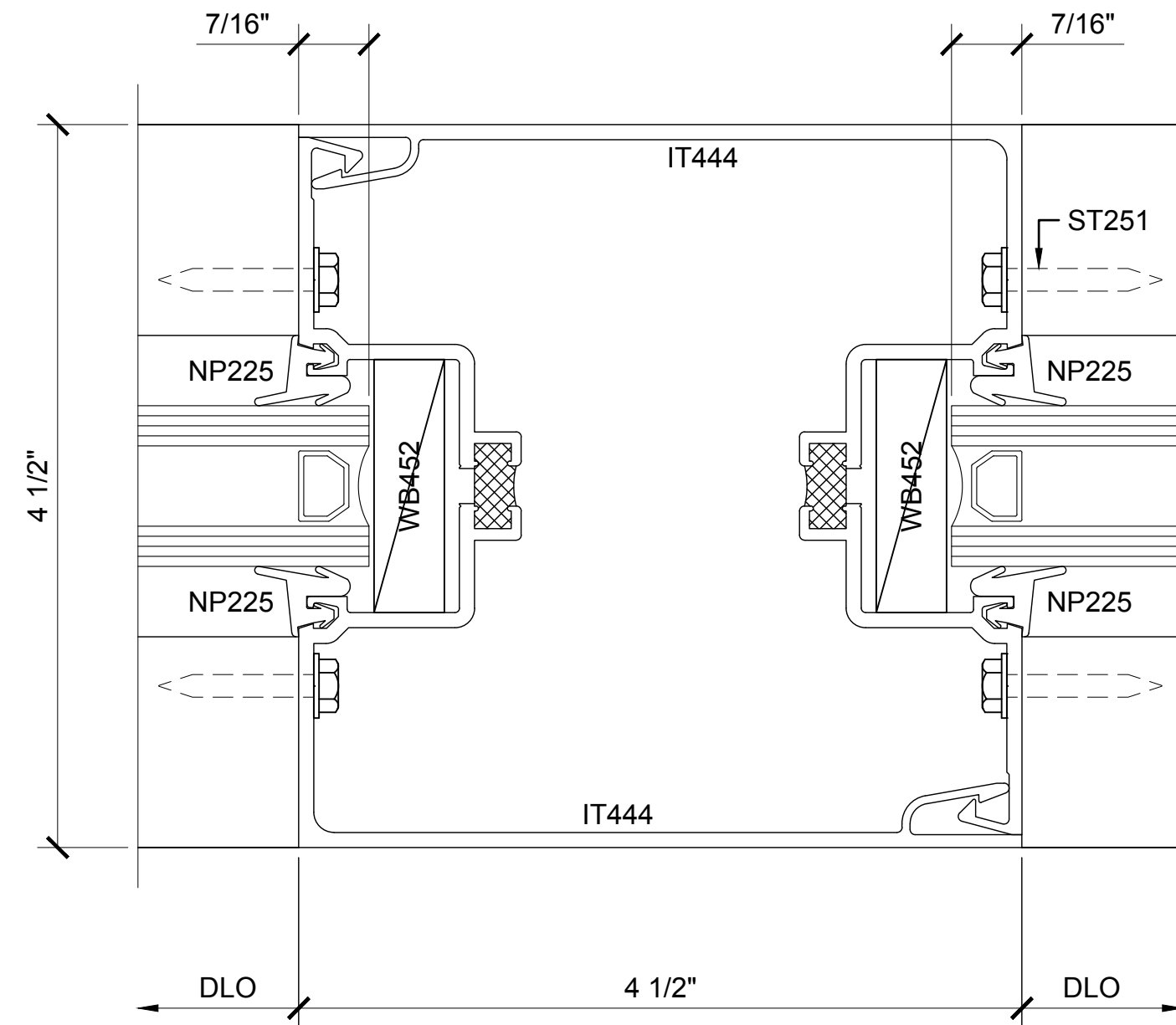
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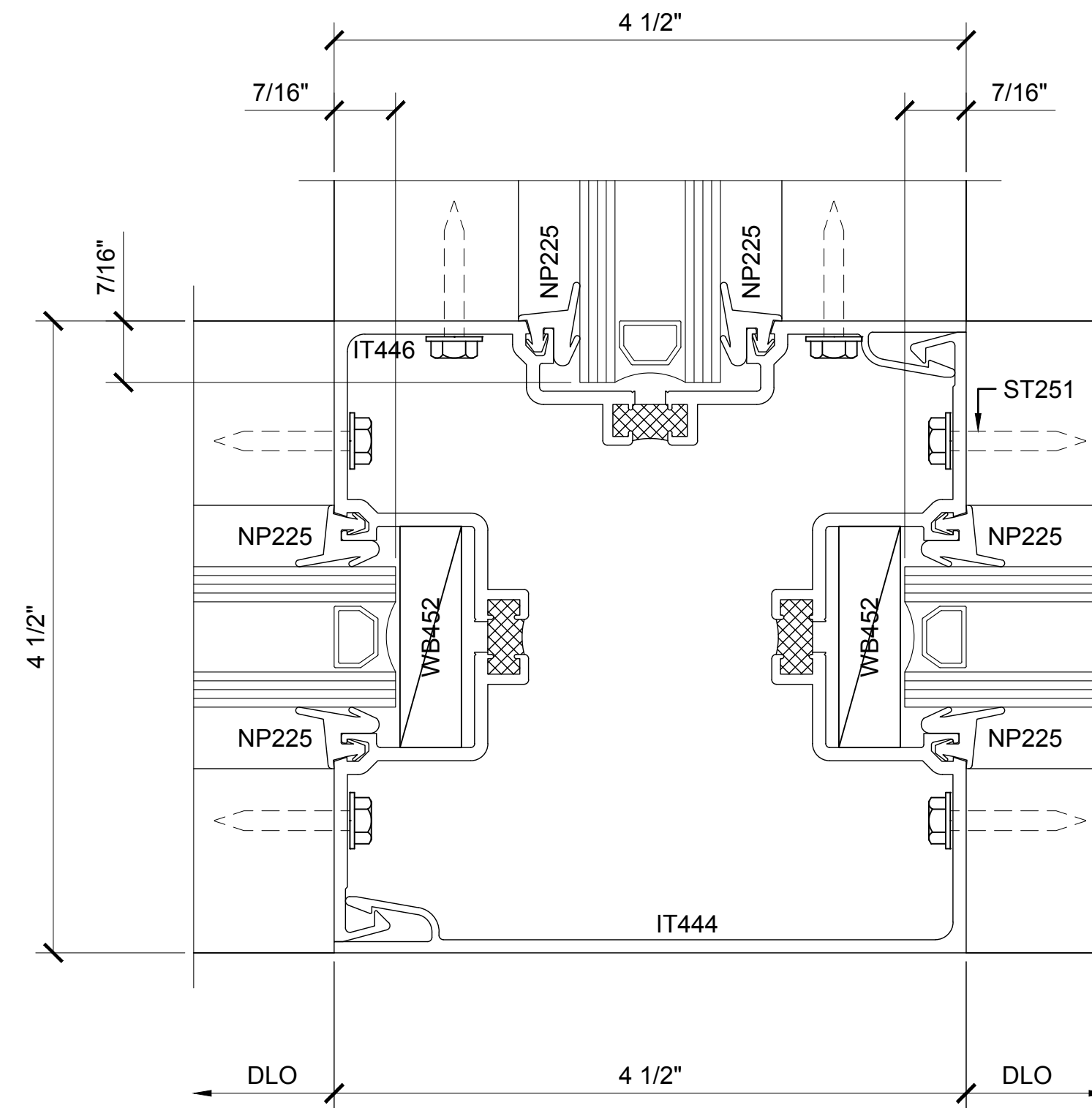
STANDARD ABBREVIATIONS

- | | |
|------|---------------------------|
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| FD | FRAME DIMENSION |
| DLO | DAYLITE OPENING |
| DO | DOOR OPENING |
| DD | DOOR DIMENSION |
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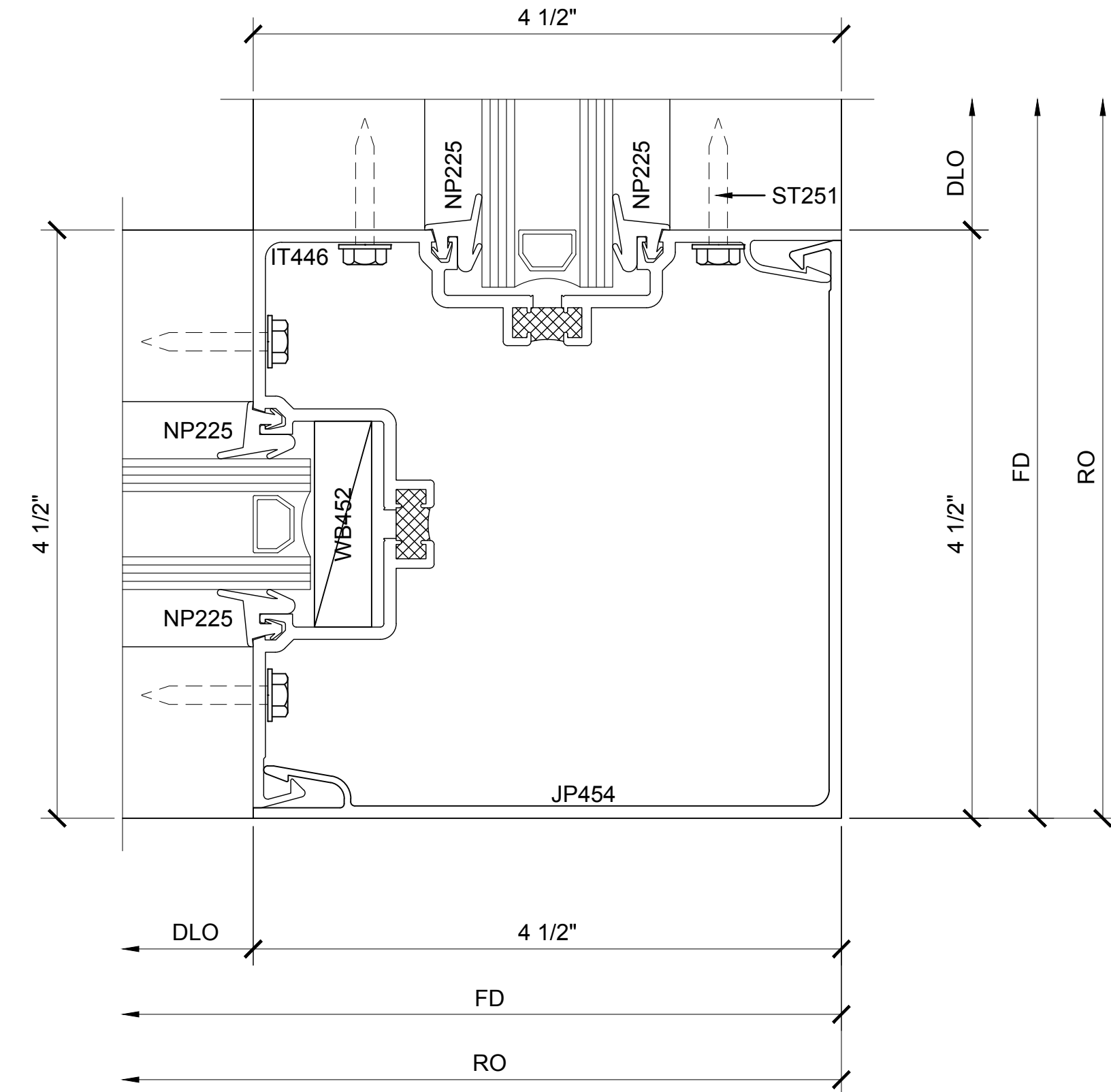
Revisions By:



SECTION DETAIL AT WIDE STYLE
INTERMEDIATE VERTICAL ①



SECTION DETAIL AT WIDE STYLE
"T" VERTICAL ②



SECTION DETAIL AT WIDE STYLE
CORNER VERTICAL ③

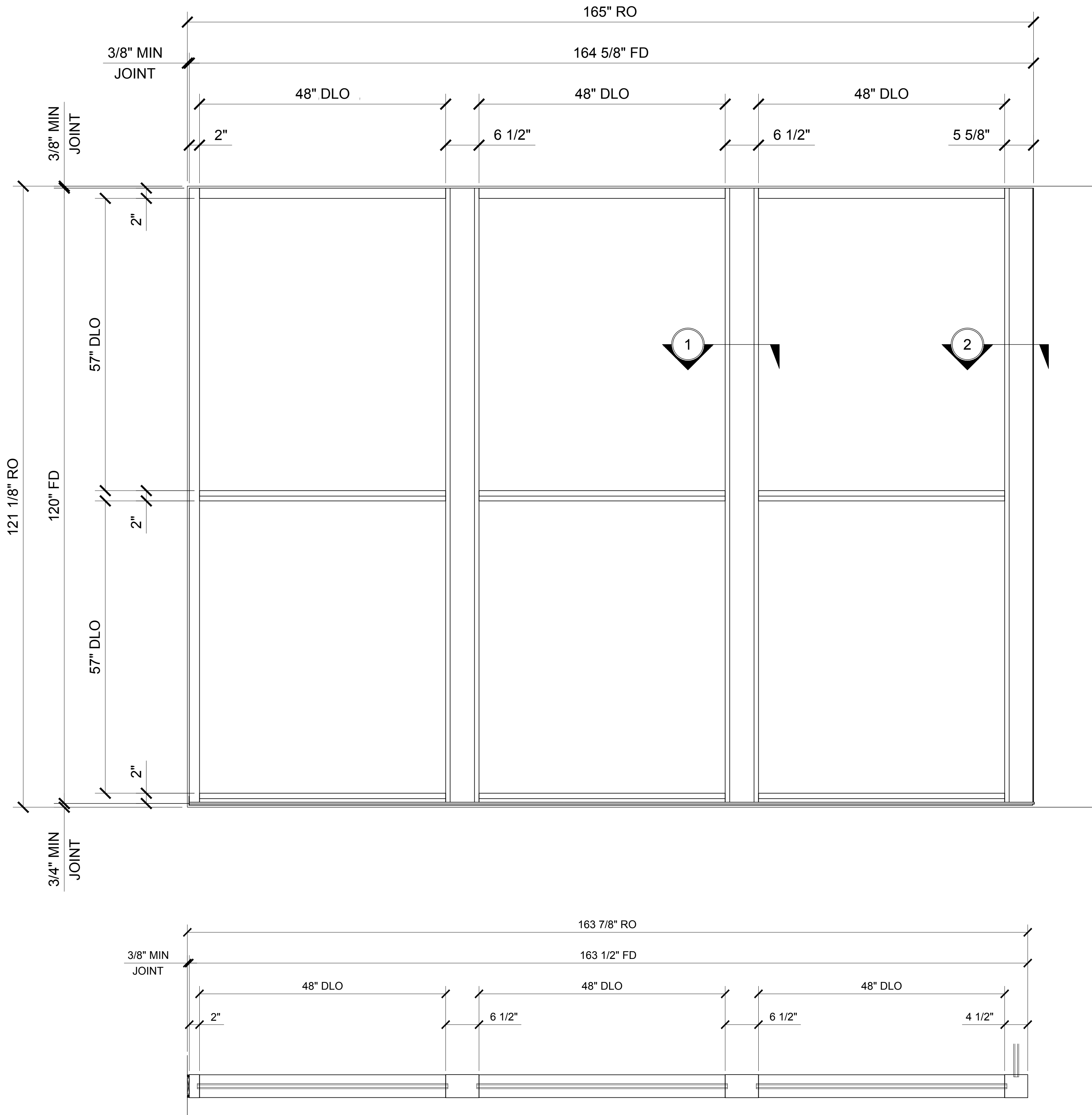
Revisions By:	
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897 PH: (800)-421-6144 FX: 800-587-7301 www.crlaurence.com	
Description: U.S. ALUMINUM SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM	
Drawn By: AAD	
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STOREFRONTS

SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM POST COVERS

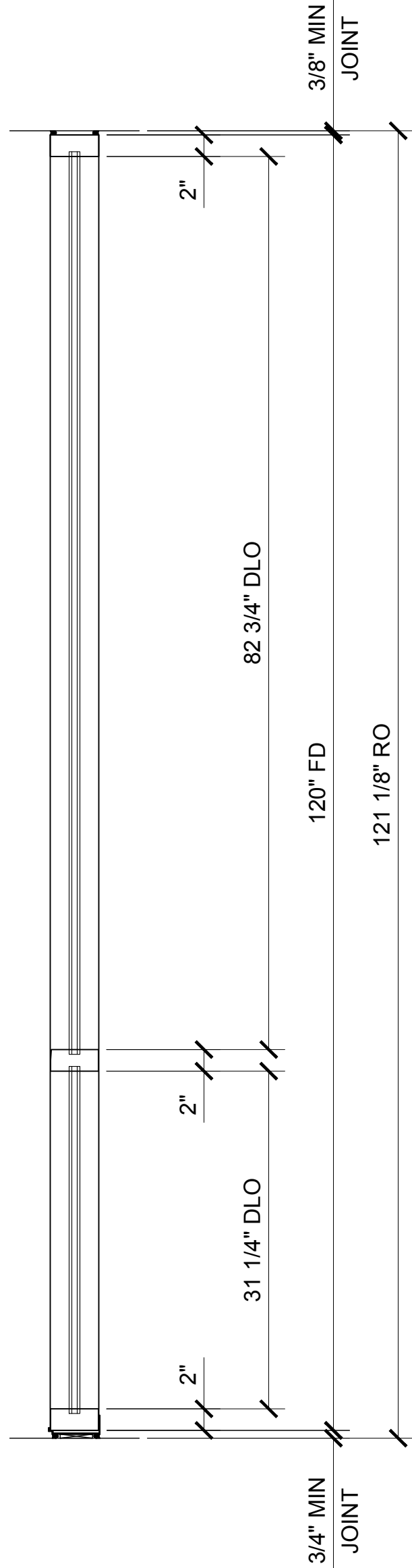
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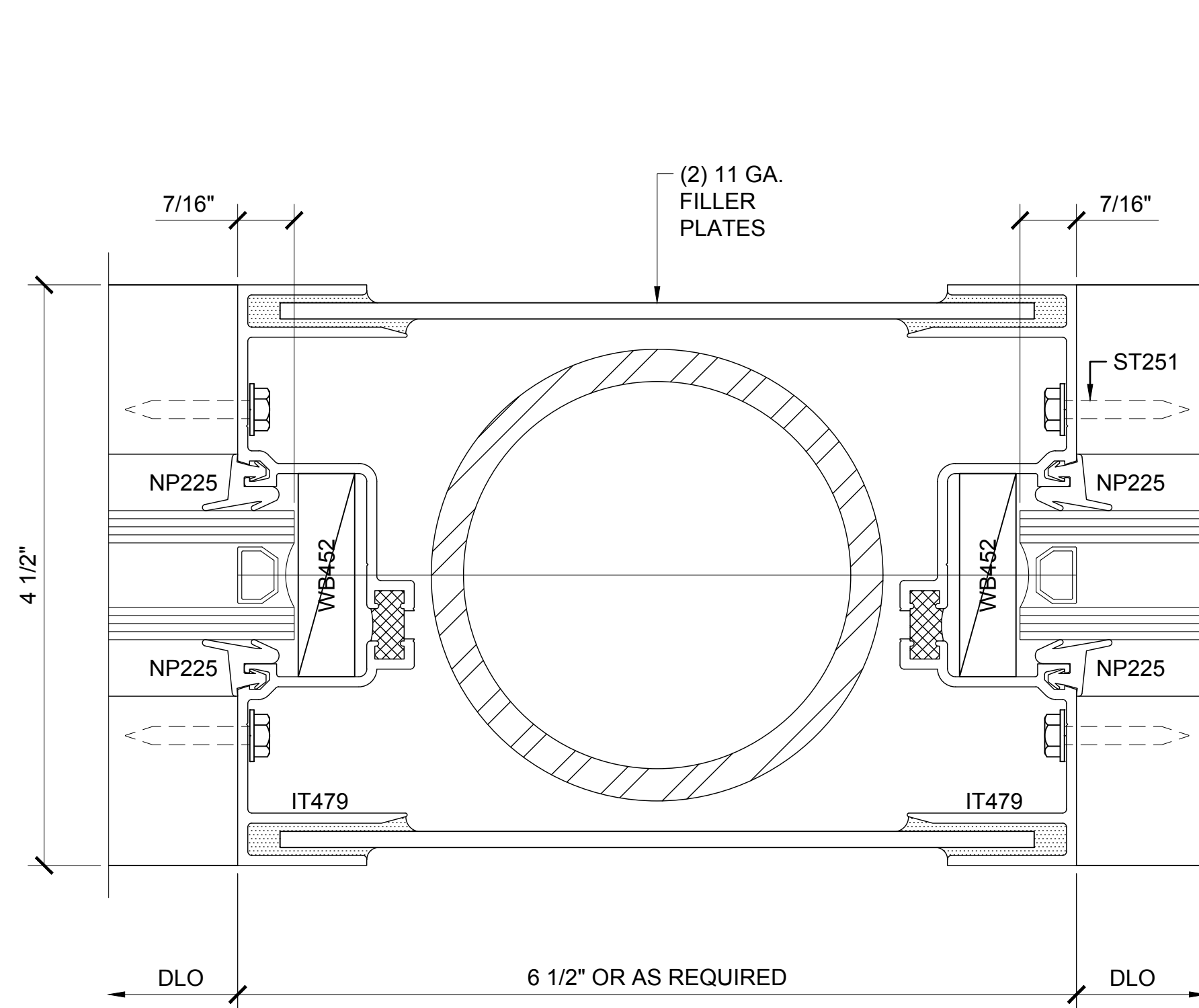
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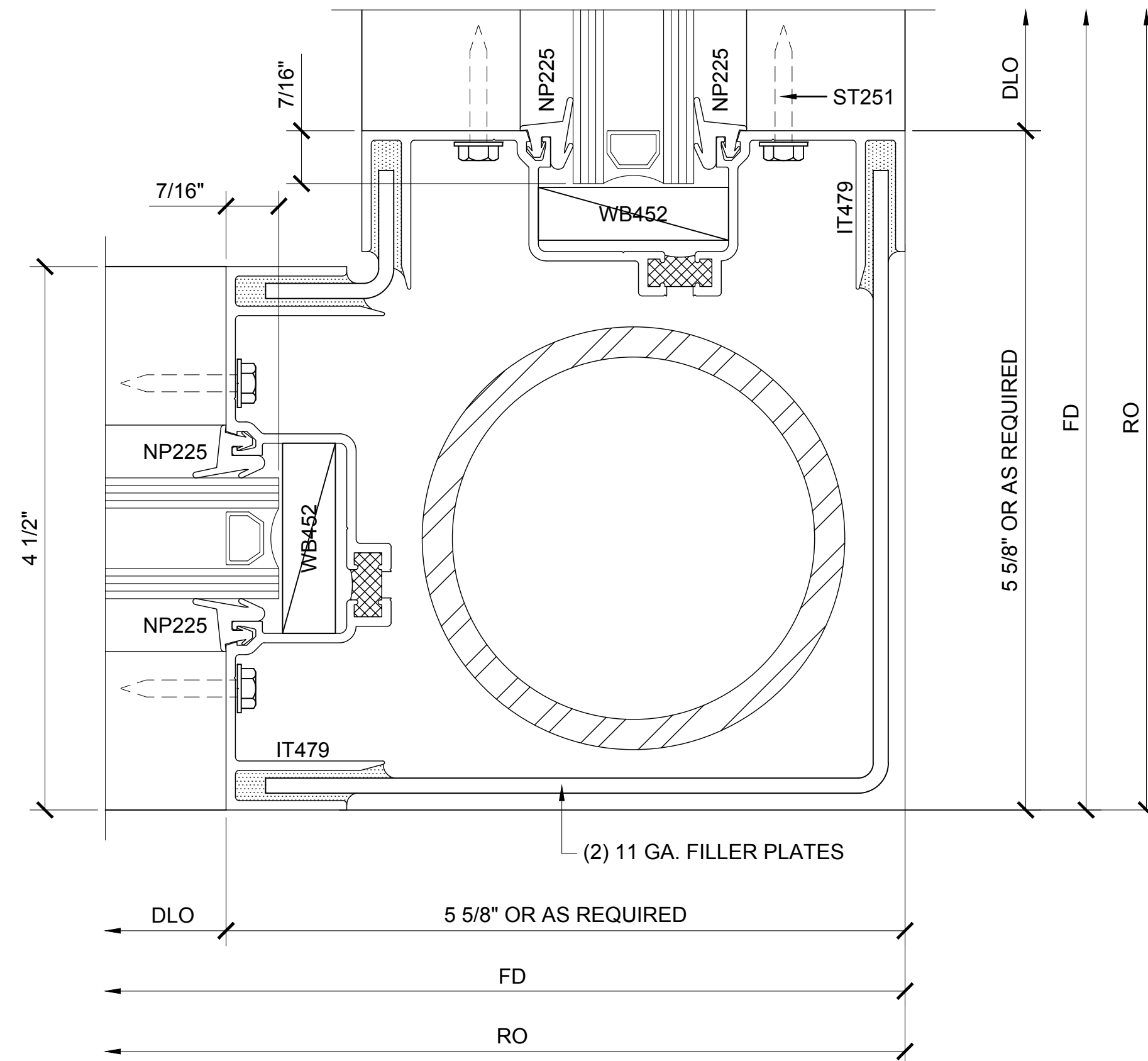
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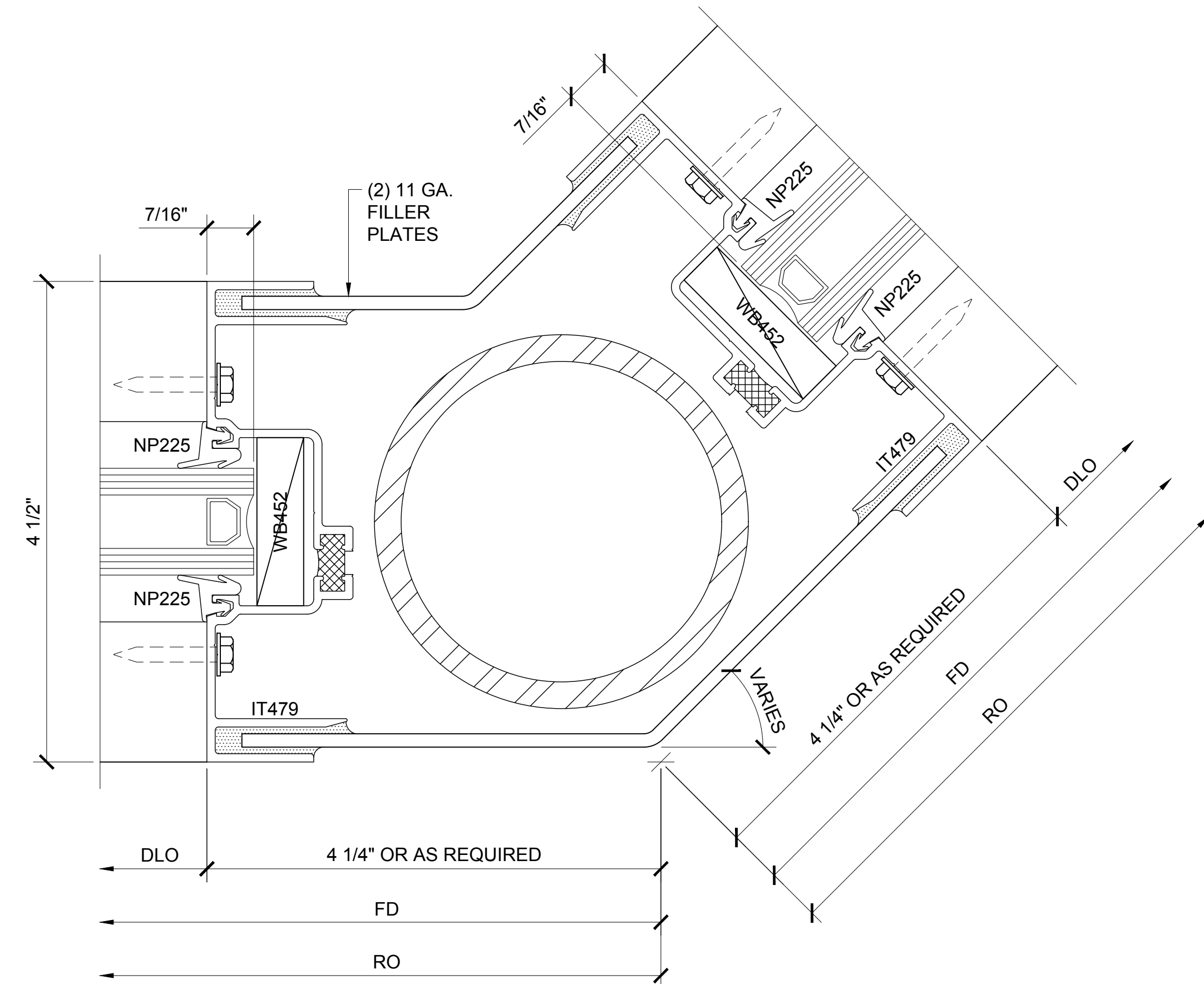
SECTION DETAIL AT INTERMEDIATE
POST COVER

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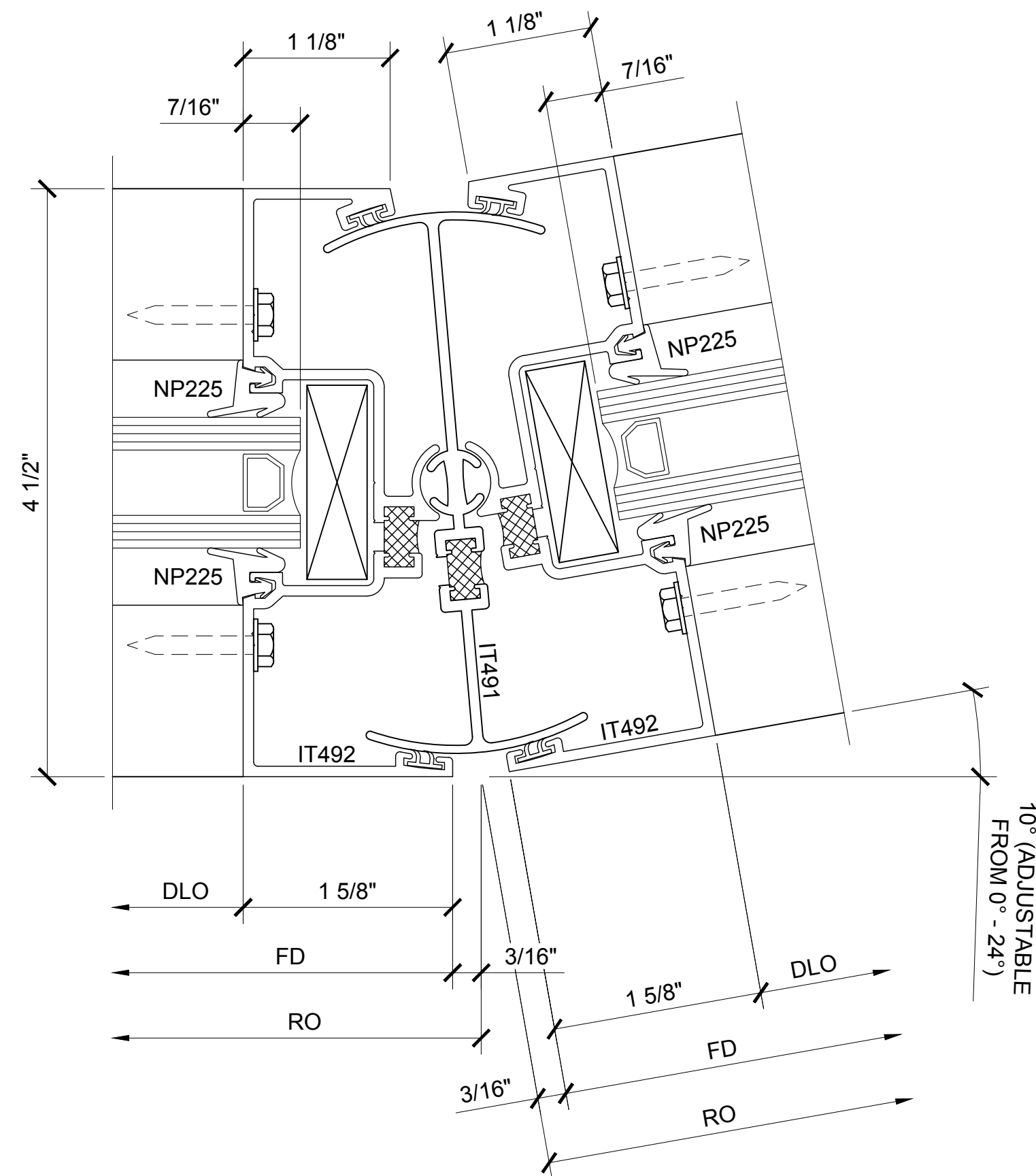
SECTION DETAIL AT 90° CORNER
POST COVER

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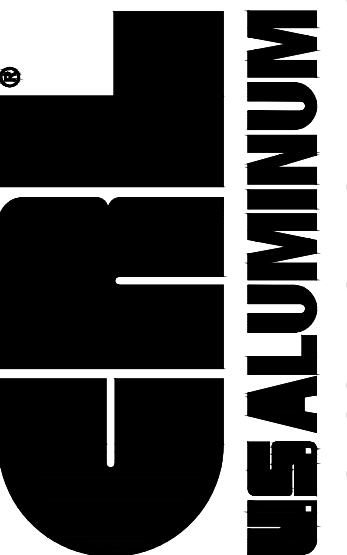
SECTION DETAIL AT ADJUSTABLE ANGLE
POST COVER

3



SECTION DETAIL AT ADJUSTABLE ANGLE
POST COVER

4

Revisions By:	
 U.S. ALUMINUM C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897 PH (800) 421-6144 FX 800-587-7301 www.crlaurence.com	
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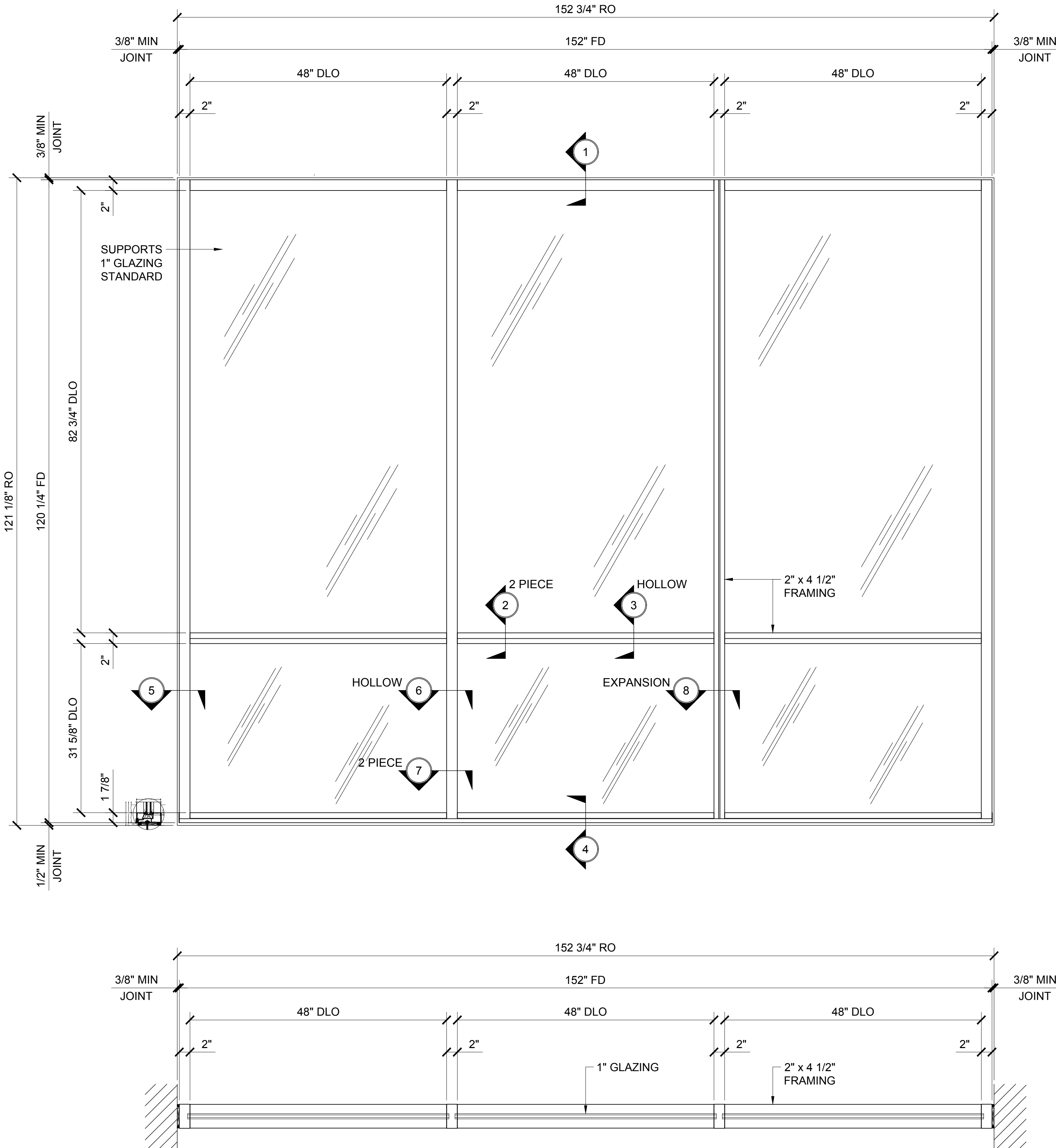
SERIES IT451 CENTER / EXTERIOR GLAZED STACKED STOREFRONT SYSTEM

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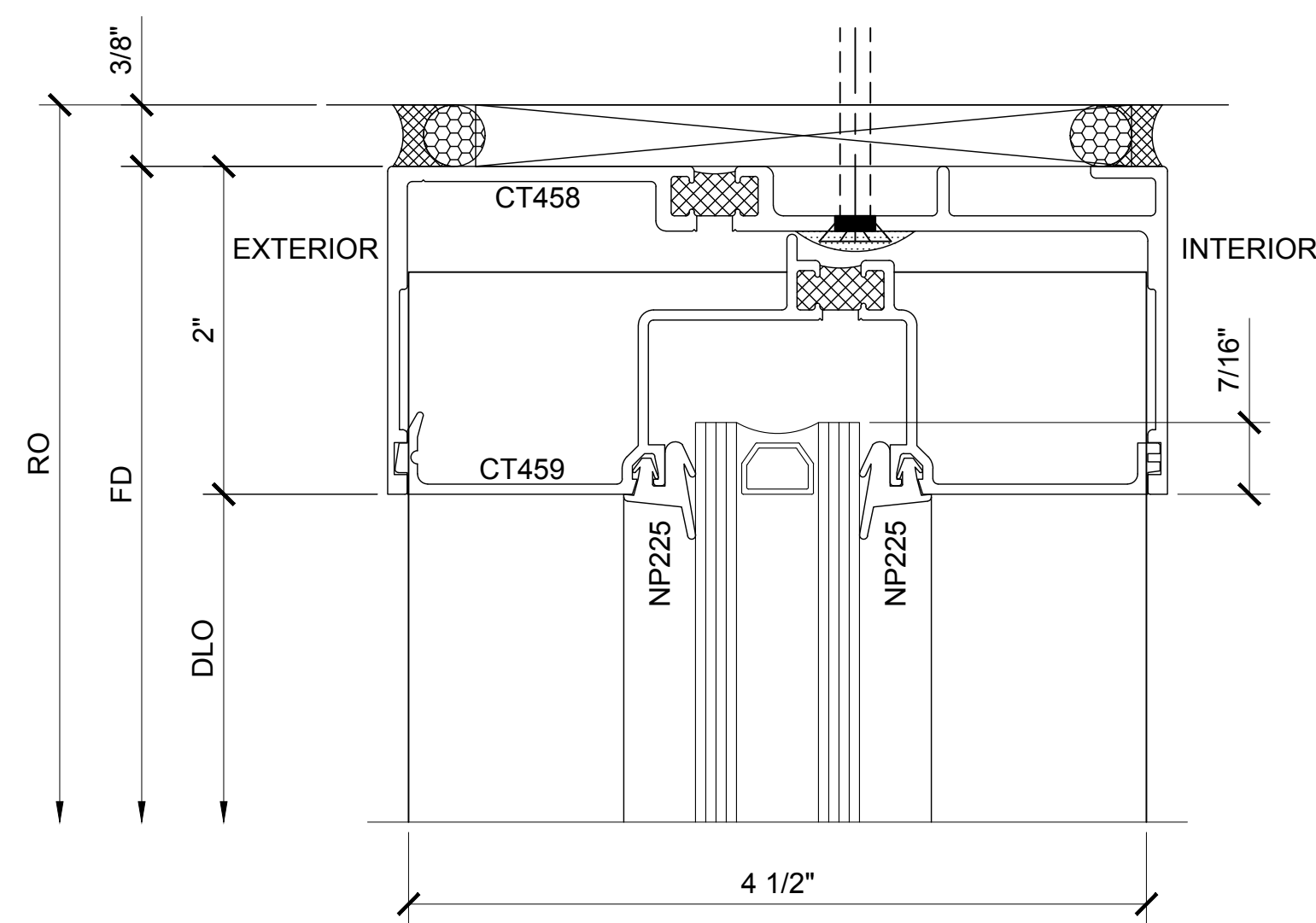
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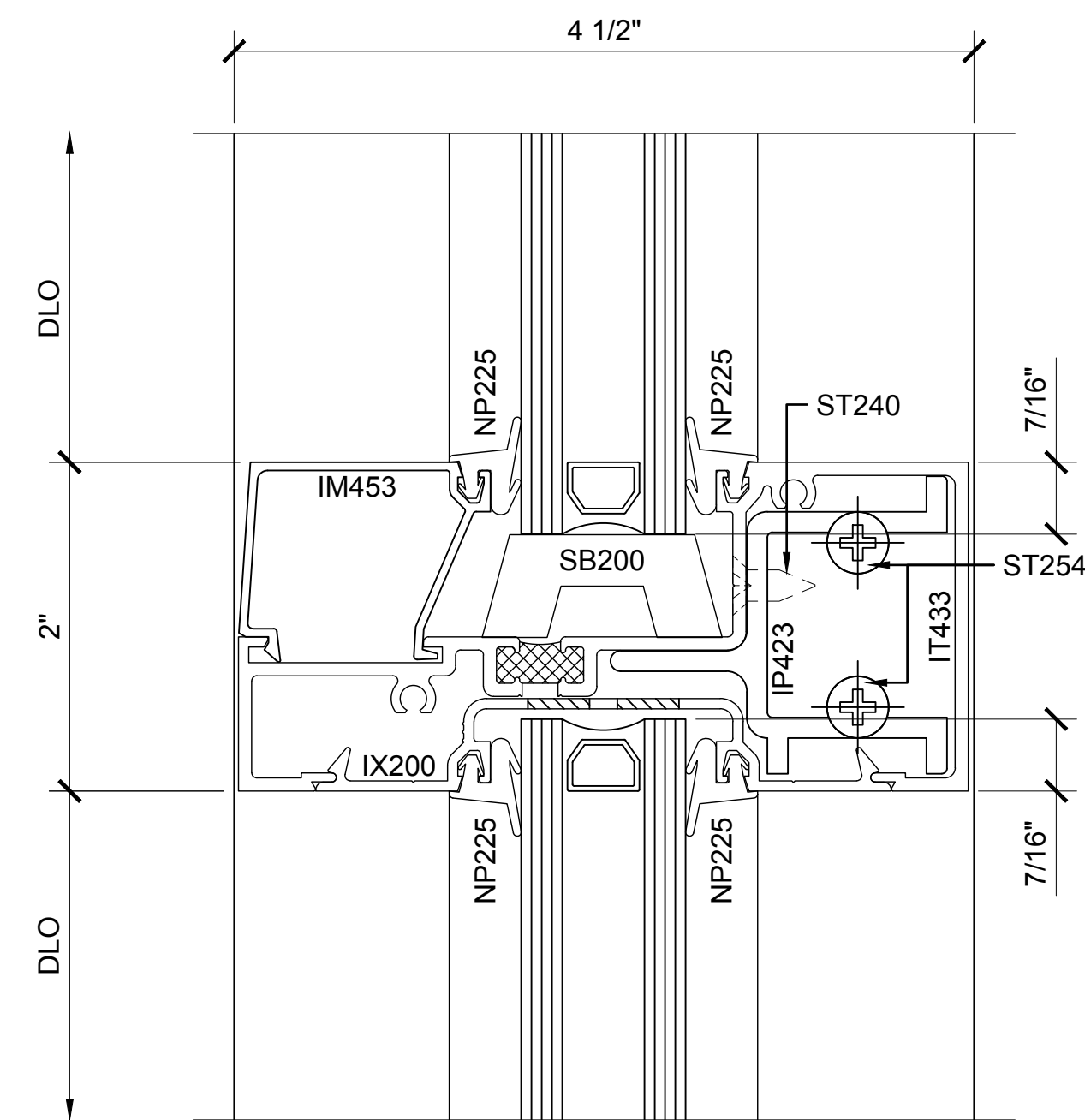
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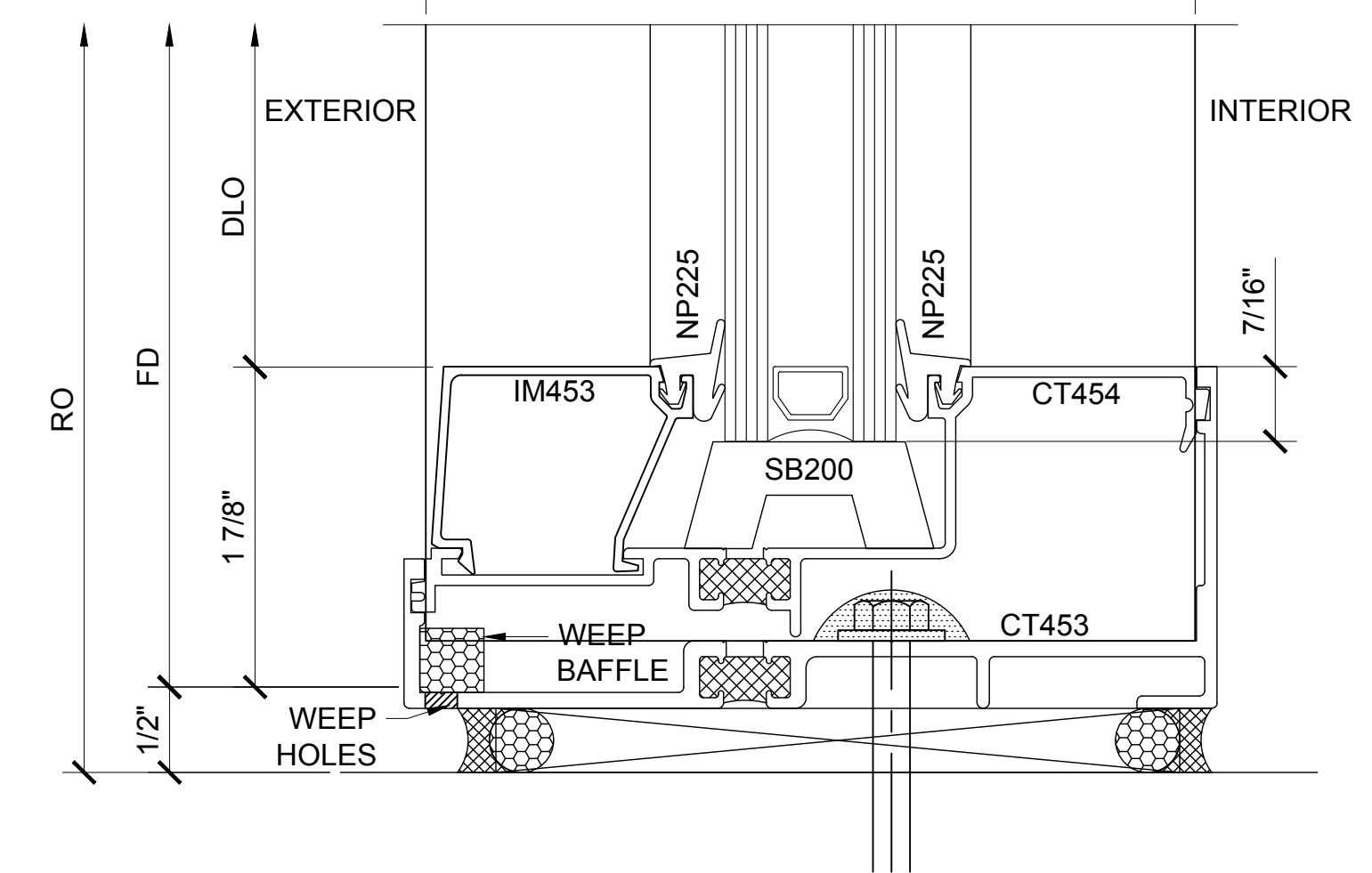
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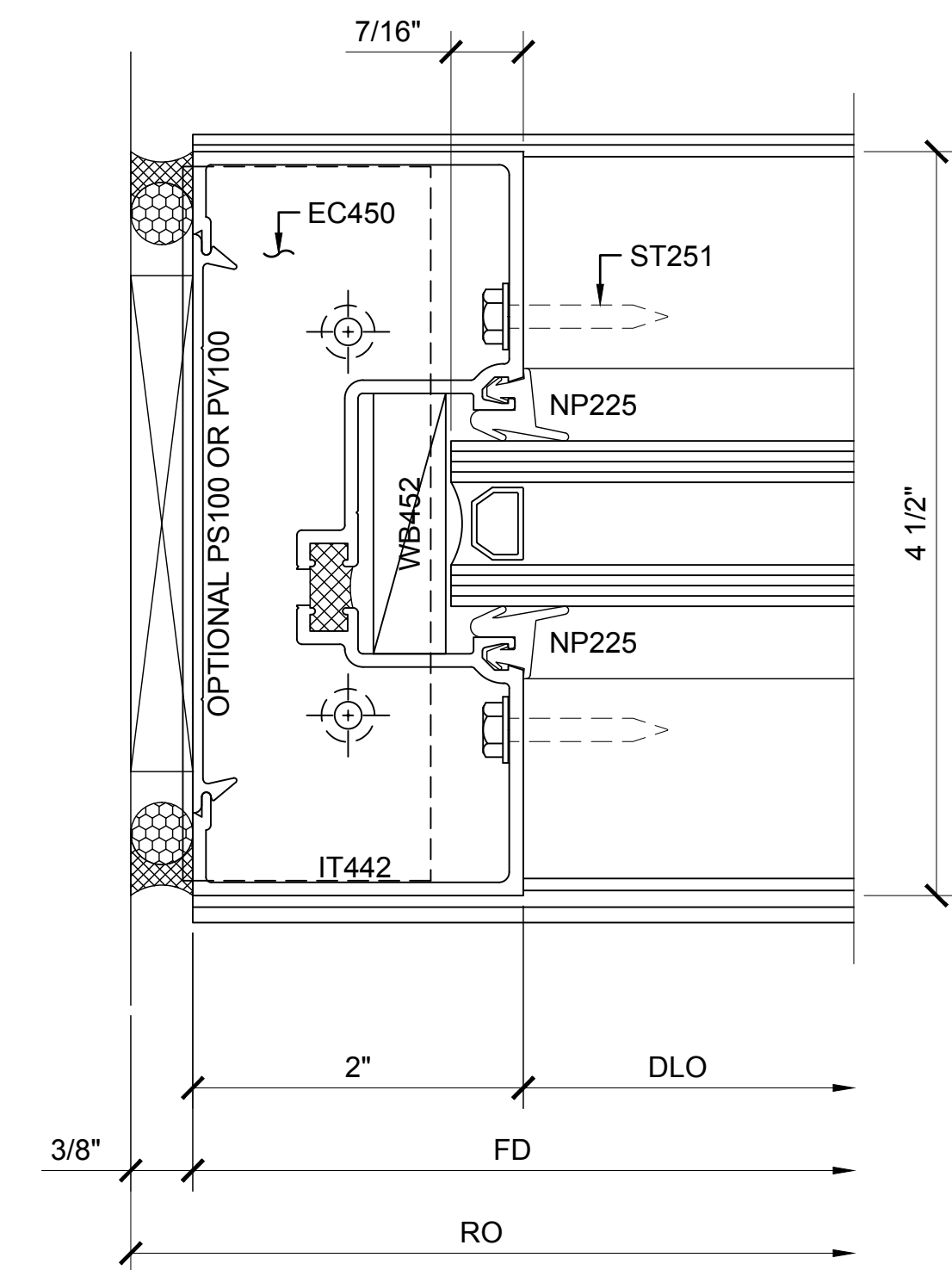
SECTION DETAIL AT HEAD ①



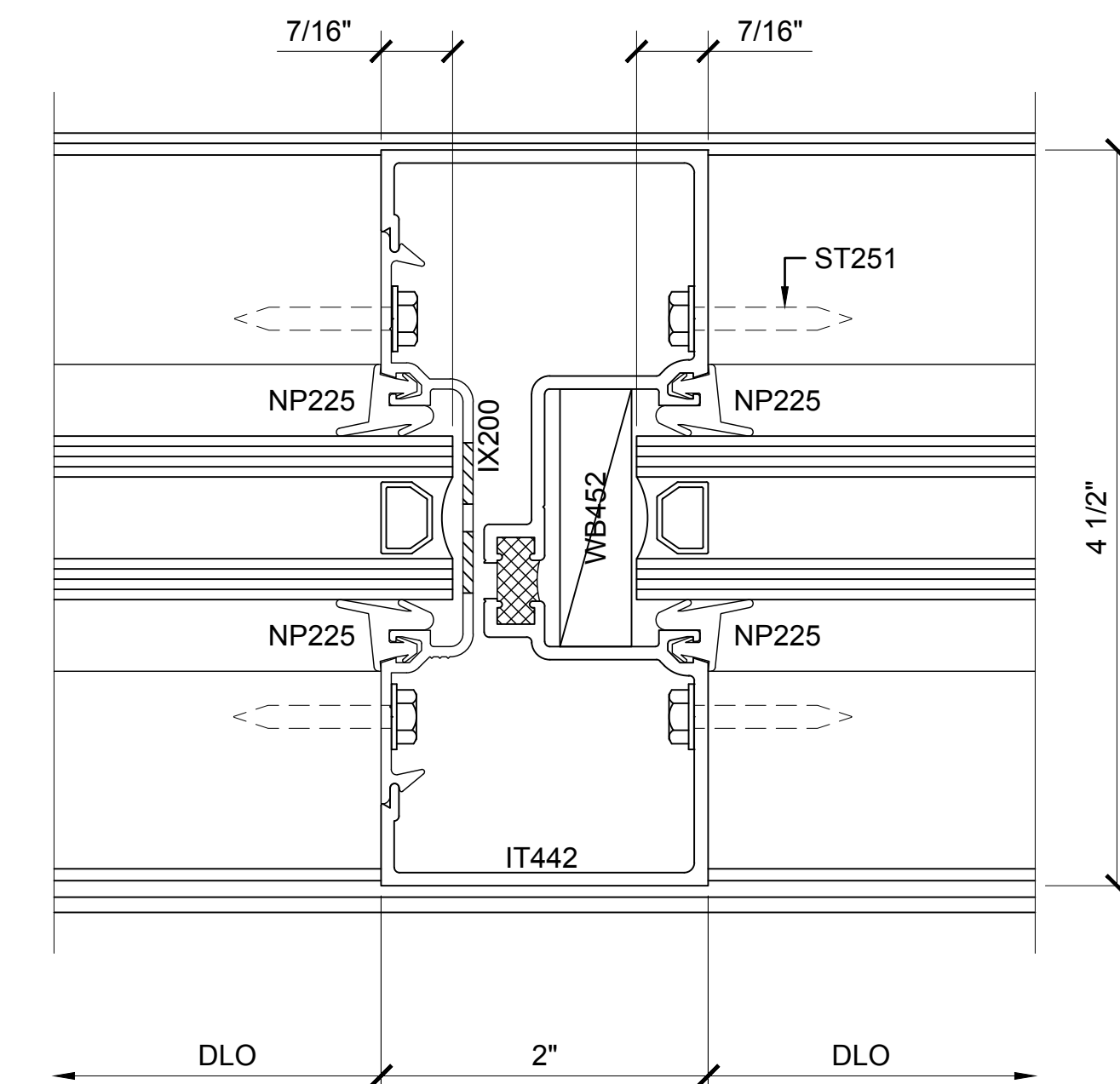
SECTION DETAIL AT INTERMEDIATE HORIZONTAL ③
TYPICAL FOR SCREW RACE ASSEMBLY - (SHEAR BLOCK FOR LOAD DISTRIBUTION)



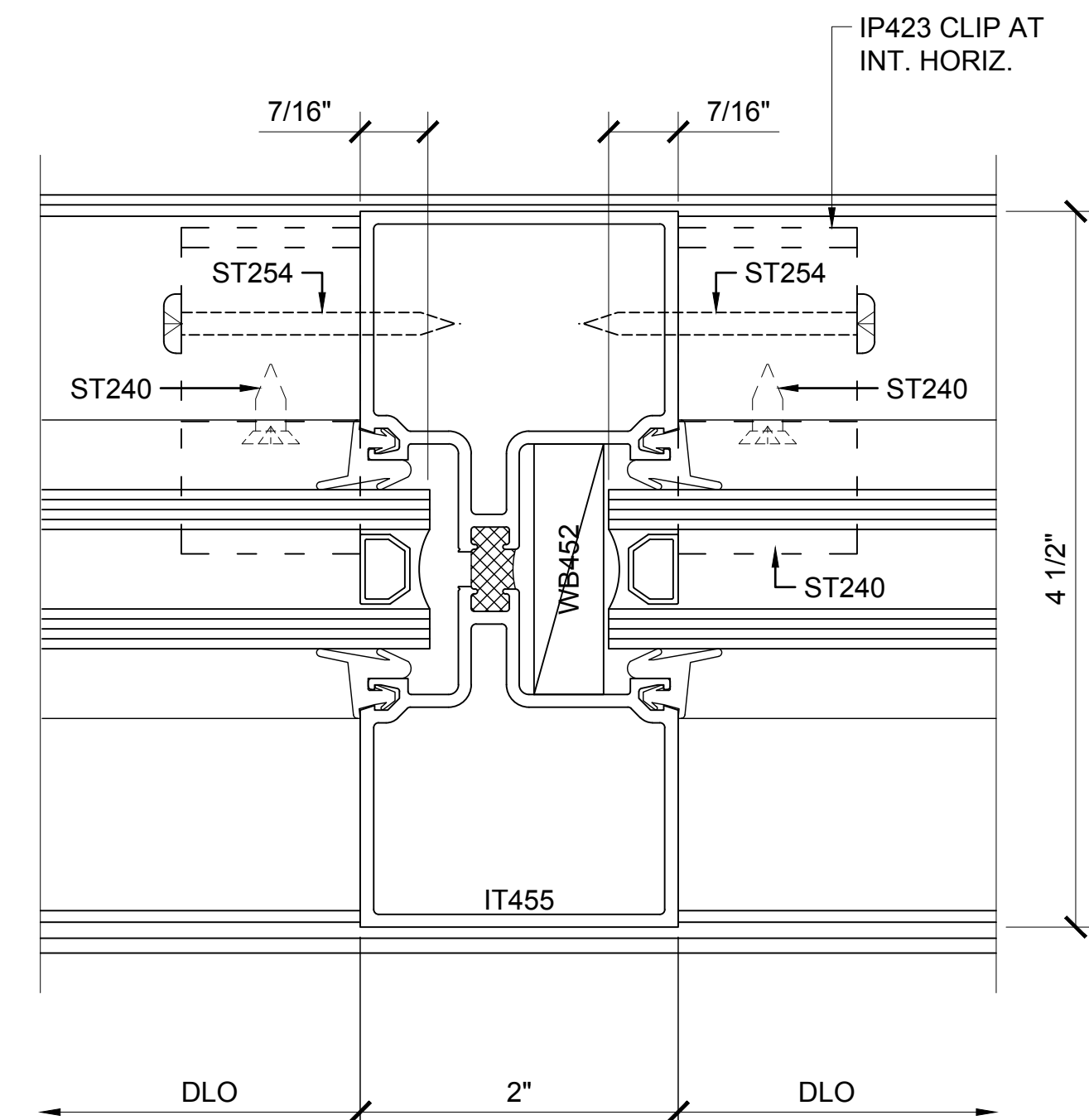
SECTION DETAIL AT SILL ④



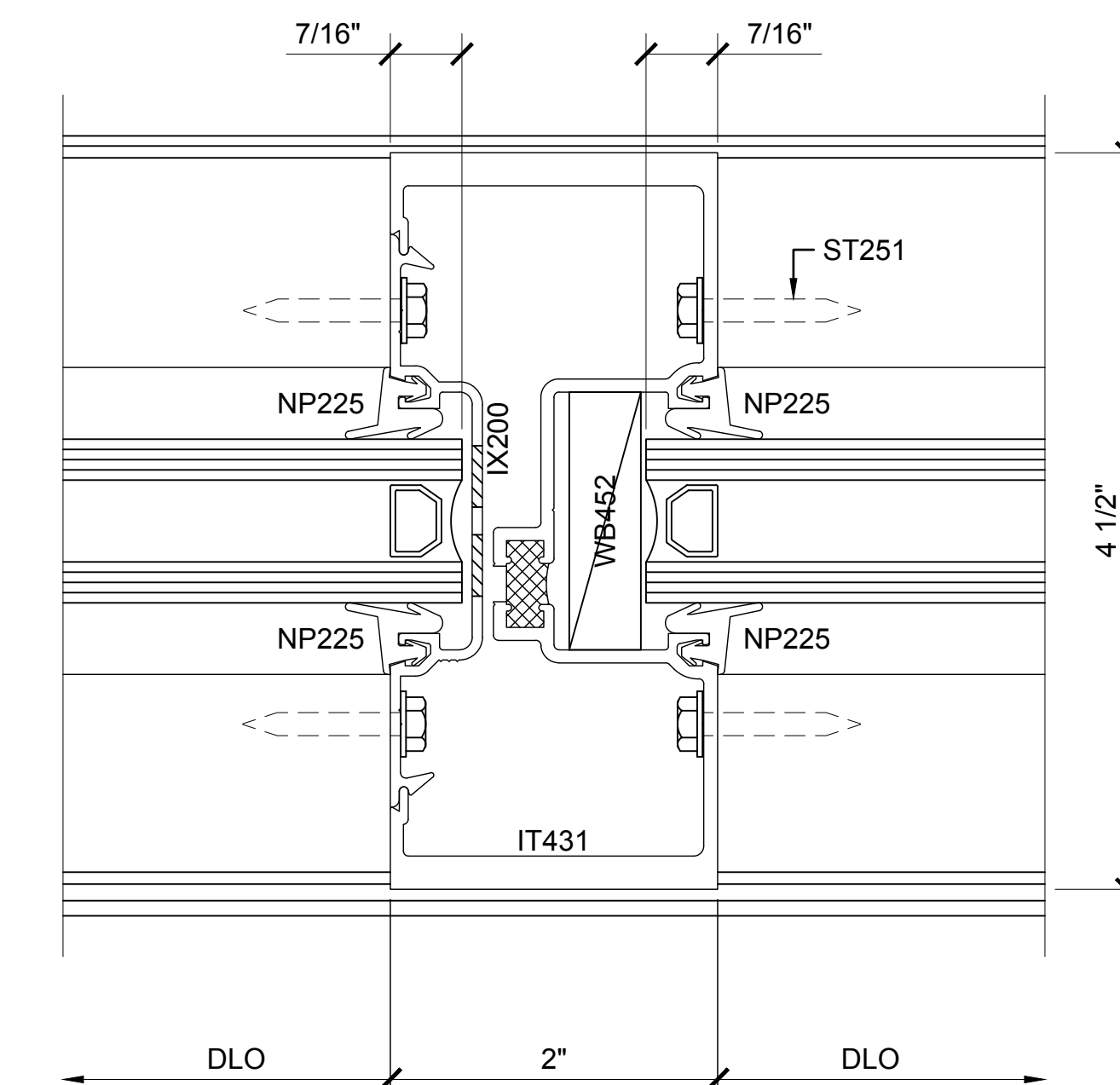
SECTION DETAIL AT JAMB ⑤



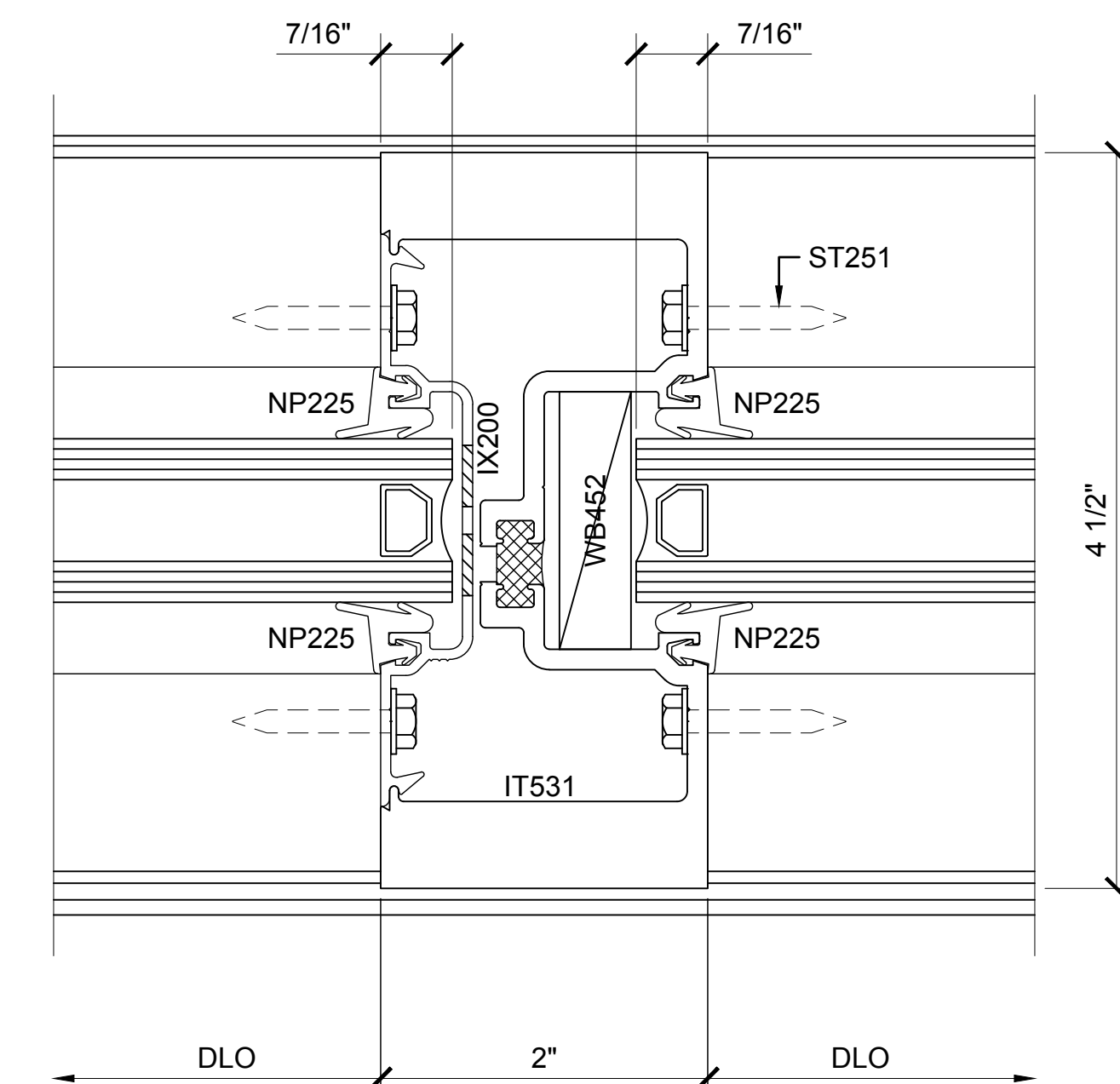
SECTION DETAIL AT INTERMEDIATE VERTICAL ⑥



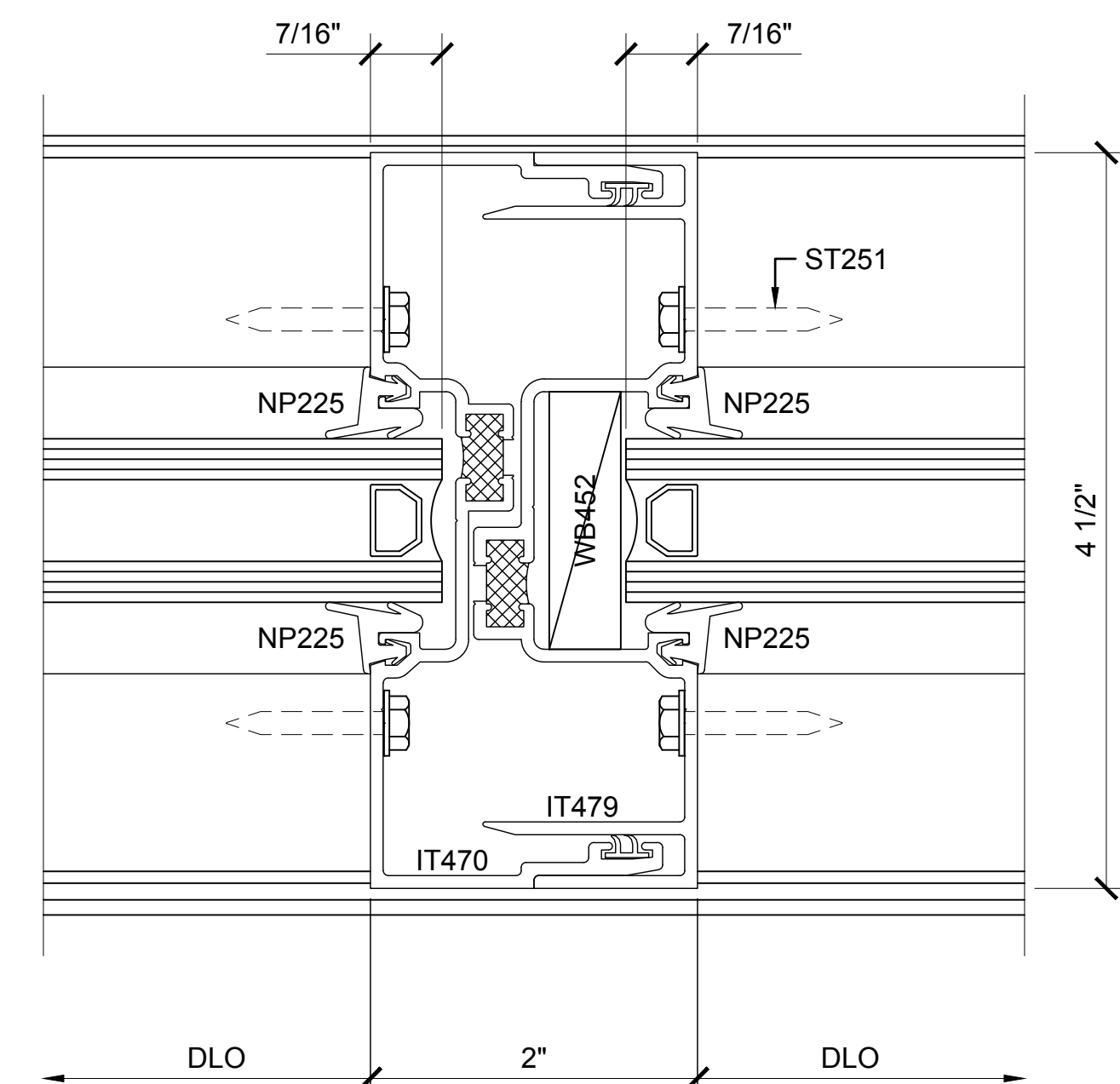
SECTION DETAIL AT HOLLOW INTERMEDIATE VERTICAL ⑥
TYPICAL SHEAR BLOCK ASSEMBLY MULLION



SECTION DETAIL AT INTERMEDIATE VERTICAL ⑦



SECTION DETAIL AT INTERMEDIATE VERTICAL ⑧



SECTION DETAIL AT EXPANSION MULLION ⑨

SERIES IT451 CENTER / EXTERIOR GLAZED SHEAR BLOCK STOREFRONT SYSTEM

Revisions By:

U.S. ALUMINUM
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS
2503 E. Vernon Avenue, Los Angeles, CA 90058-1897
PH (800) 421-6144 FX 800-587-7301 www.crlaurence.com

Discription:
U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

Drawn By: AAD
Date: 1/23/15
Scale: AS NOTED
File Name: SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM.dwg
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7.2



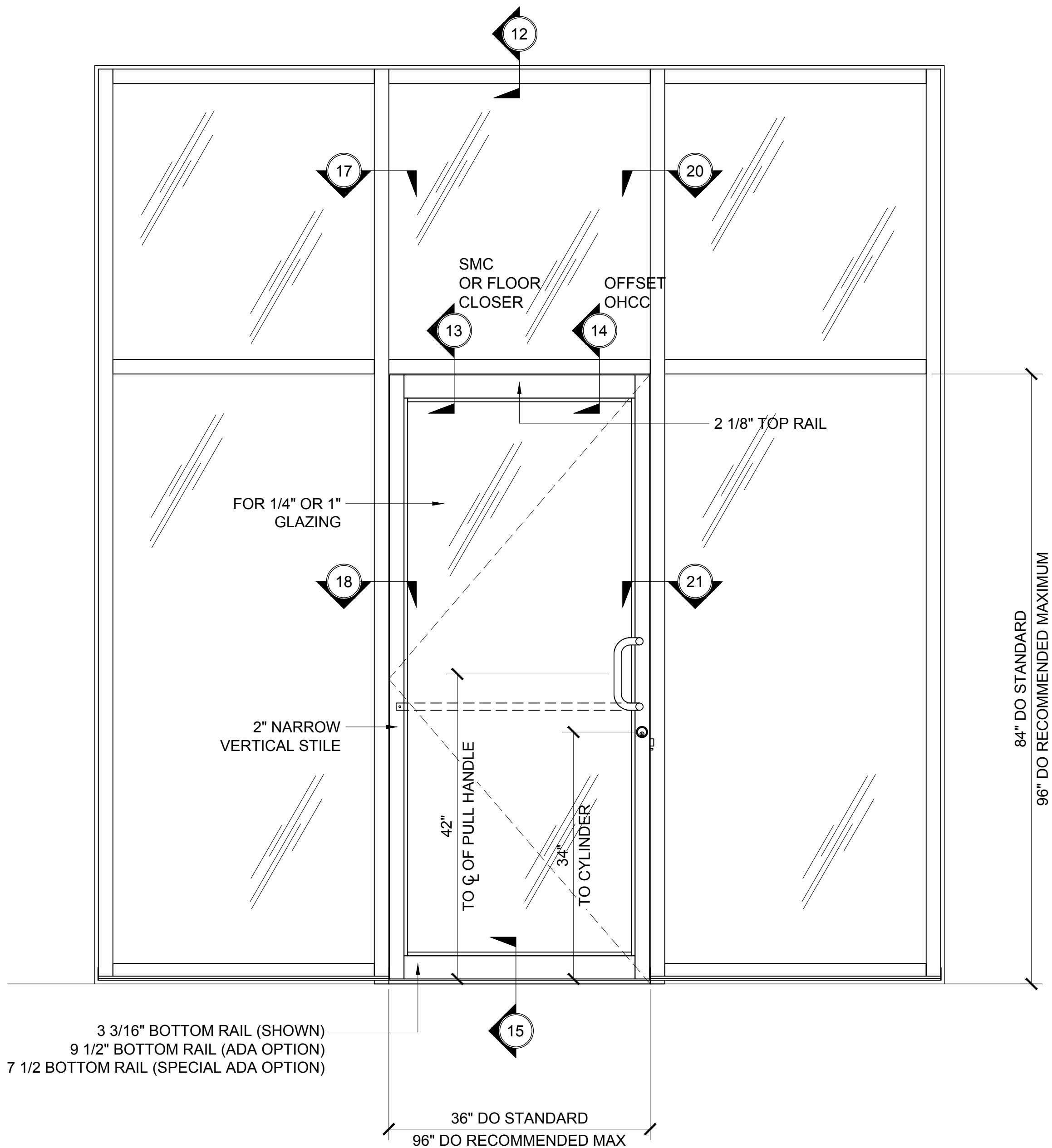
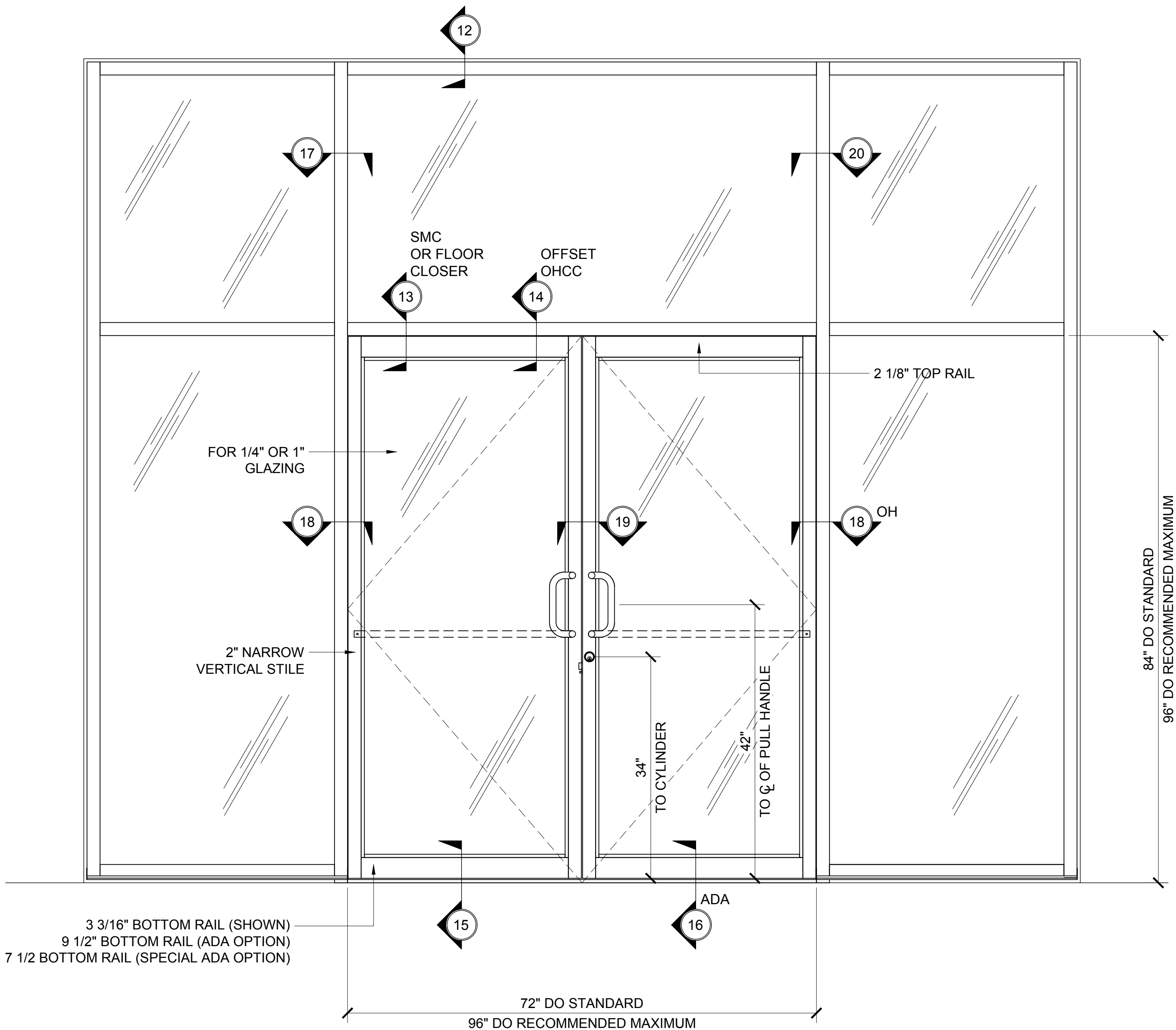
STOREFRONTS

SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM OFFSET HUNG DOOR FRAMING

IT451 SERIES SPECIFICATIONS

Series IT451 offers improved thermal performance using the Poly-Aluminizer™. United States Aluminum offers cost efficient versatile Center Glazed Systems with clean lines and superb performance. Series IT451 may be interior or exterior glazed. A top load EPDM gasket is used to position and weatherseal the glass in the aluminum pocket. Center Glazed Systems are compatible with most Unites States Aluminum entrance doors.

- 2" x 4 1/2" frame
- 1" Glazing infill (SHOWN) Optional snap-in reducers for 1/4" or 1/2" glass are available
- Struct-Link™ thermal break
- Full range of accessory components
- Available in an array of architectural coatings and anodized finishes
- Screw spline assembly
- Shear block assembly
- Stacking installation option
- Interior or Exterior Glazed



STANDARD ABBREVIATIONS

- | | |
|------|---------------------------|
| RO | ROUGH OPENING |
| FD | FRAME DIMENSION |
| DLO | DAYLITE OPENING |
| DO | DOOR OPENING |
| DD | DOOR DIMENSION |
| SMC | SURFACE MOUNTED CLOSER |
| OHCC | OVERHEAD CONCEALED CLOSER |

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GLAZED STOREFRONT SYSTEM.dwg

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8.1



SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM DOOR FRAMING DETAILS (SHOWN WITH OPTIONAL MEDIUM STILE OFFSET HUNG SERIES 400-T DOOR SYSTEM)

CAL[®]

USE ALUMINUM

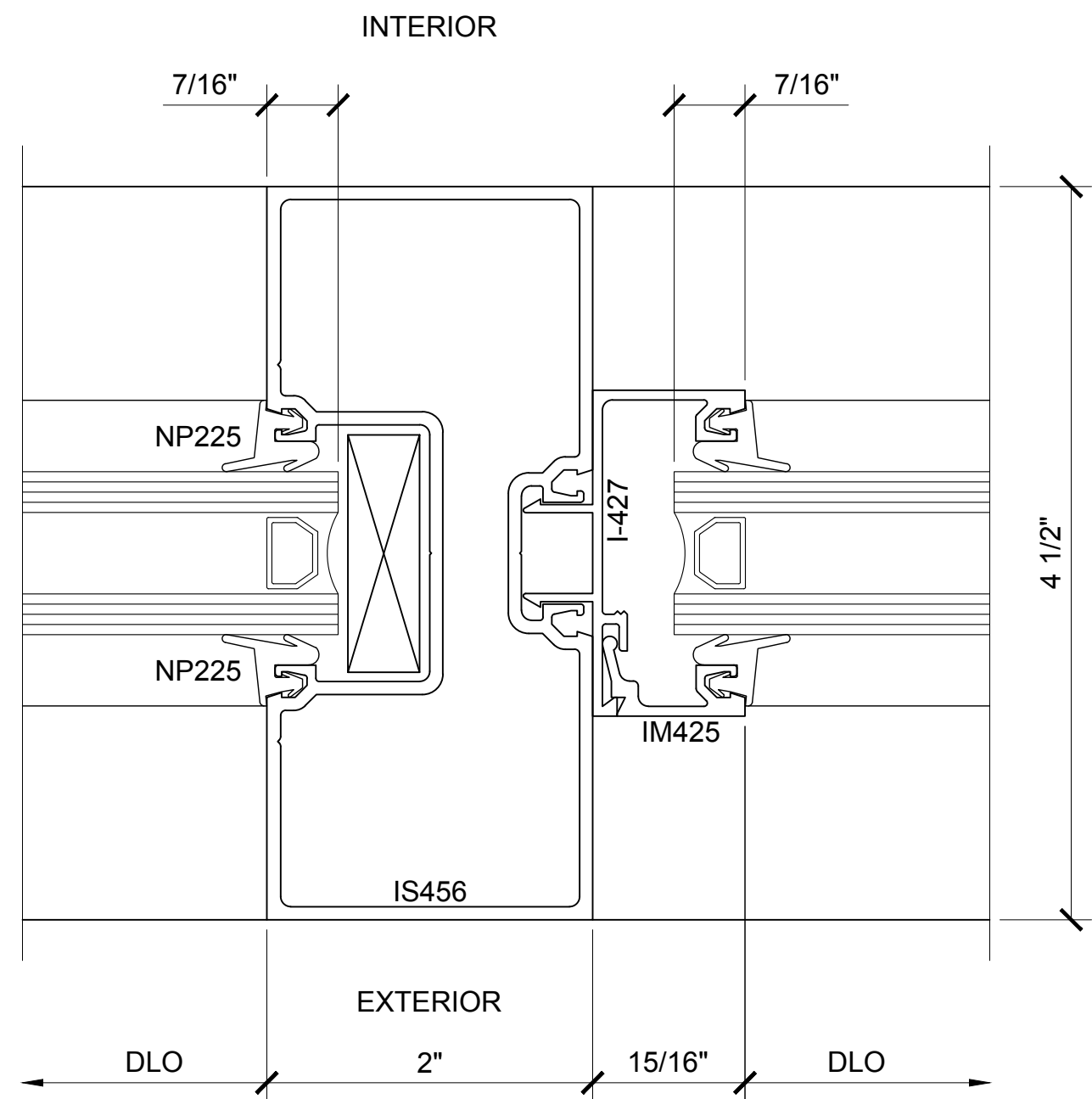
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS
2593 E. Varian Avenue, Los Angeles, CA 90058-1897
PH (800) 421-6144 FX (800-387-7501) WWW.CLAURENCE.COM

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U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

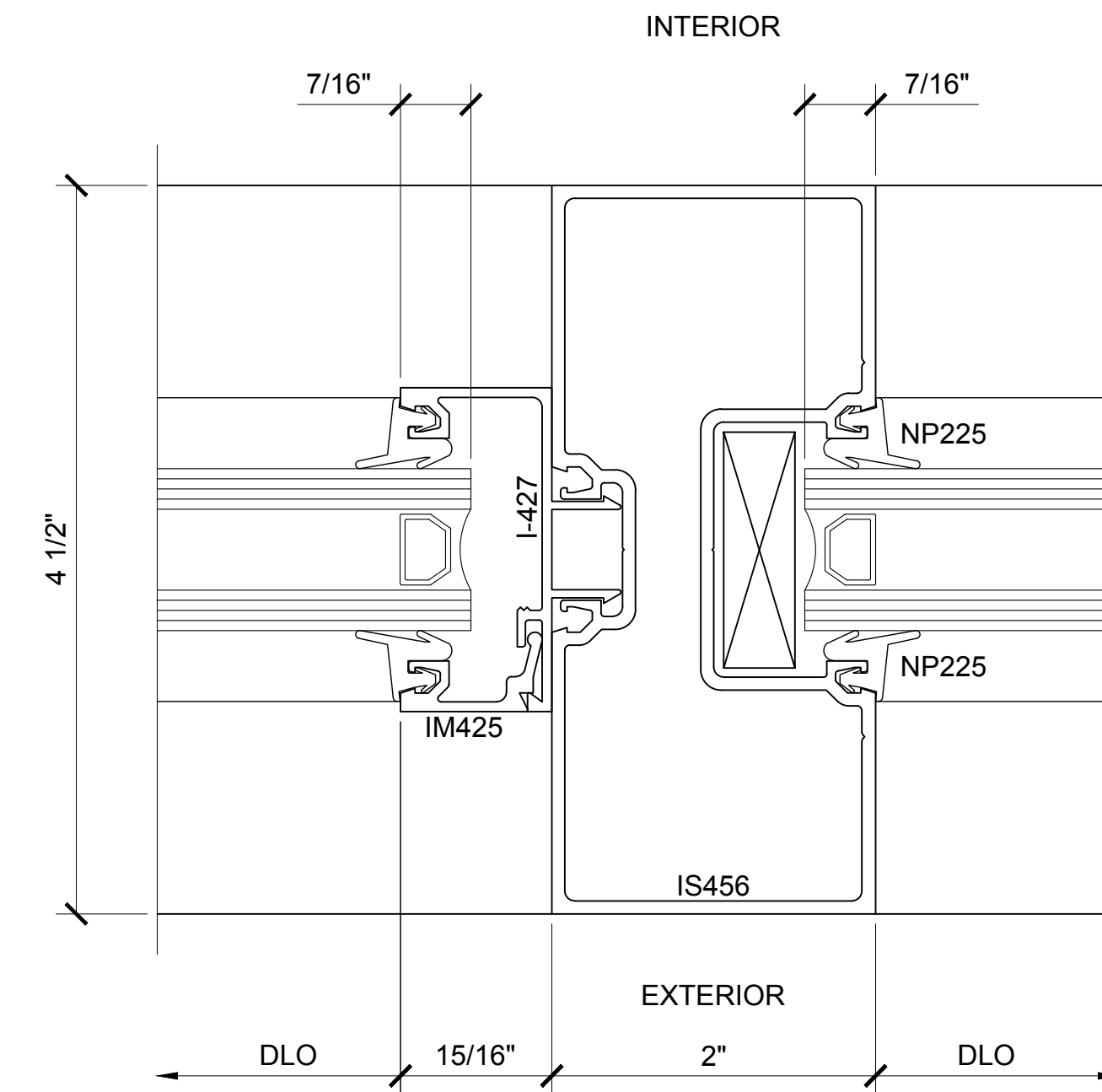
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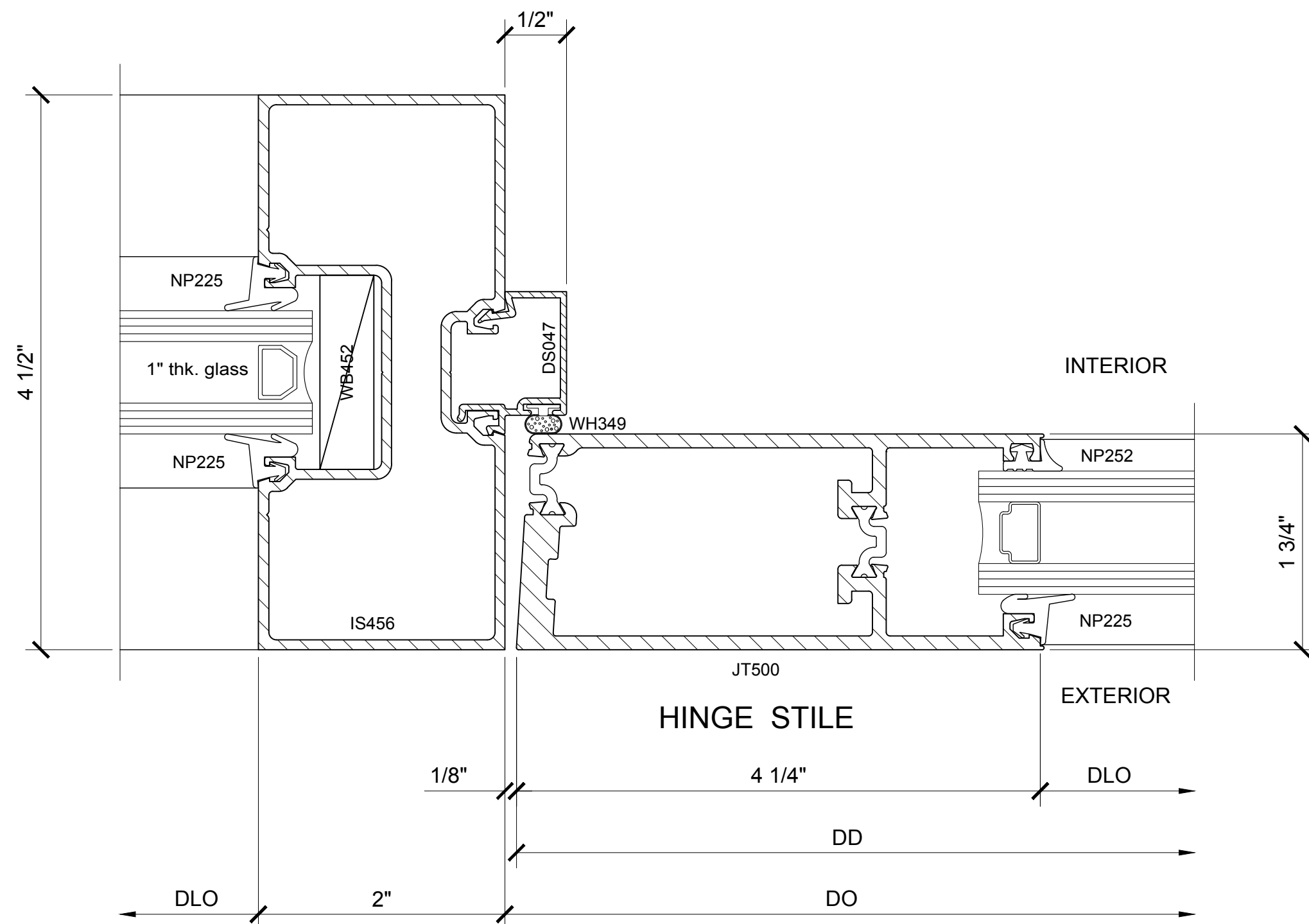
SECTION DETAIL @ VERTICAL

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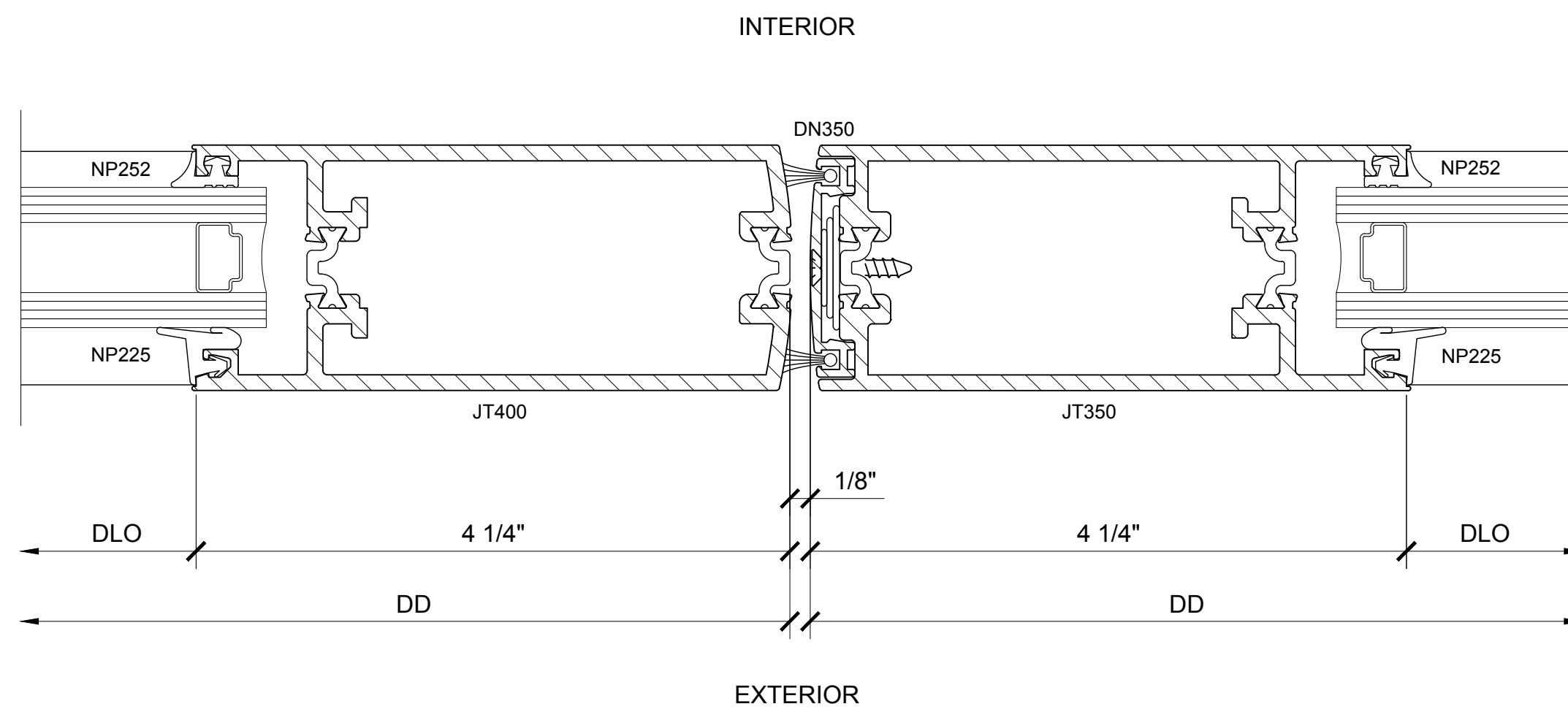
SECTION DETAIL @ VERTICAL

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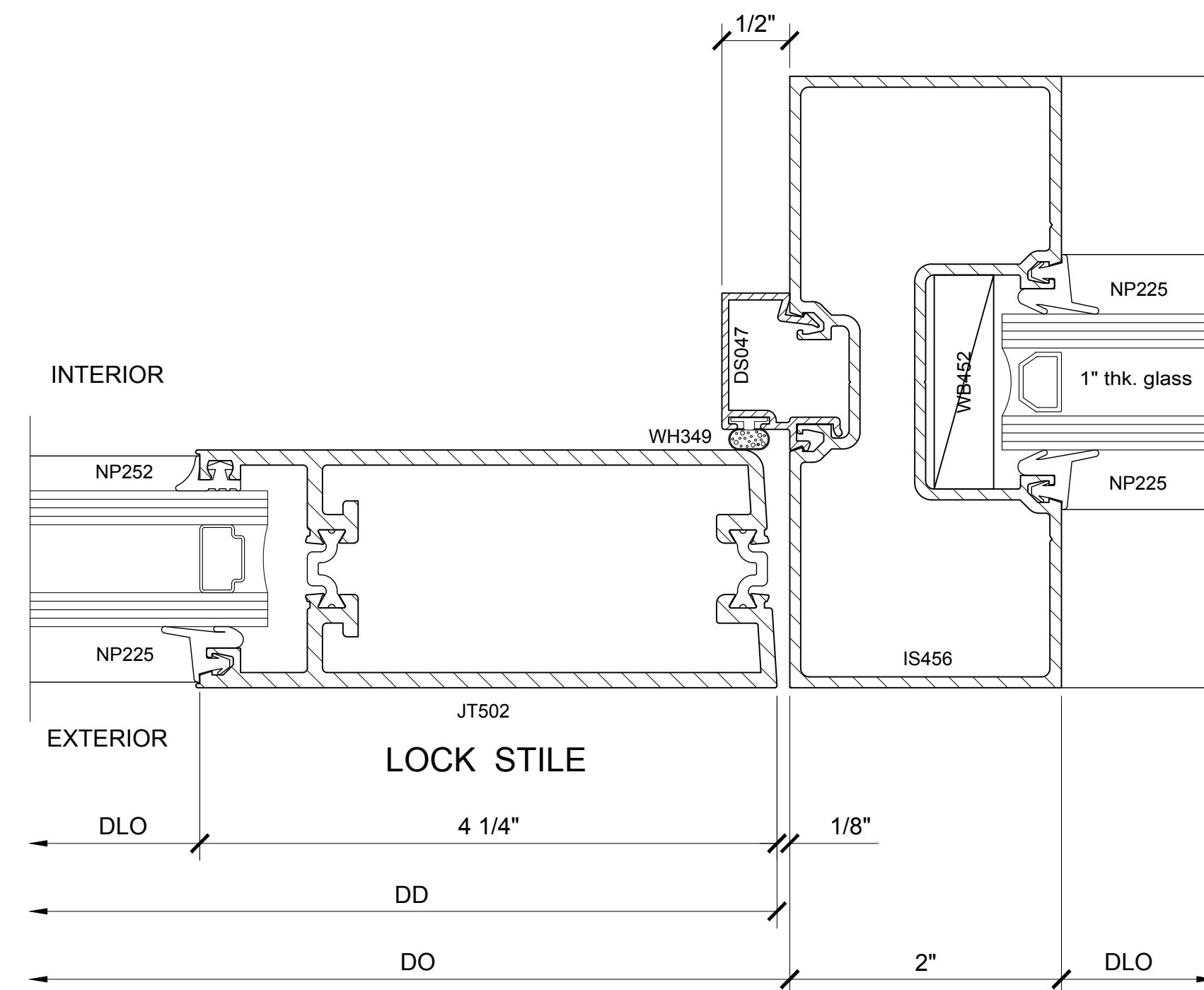
SECTION DETAIL @ DOOR JAMB

18



SECTION DETAIL @ MEETING STILES

19



SECTION DETAIL @ DOOR JAMB

21

SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM TUBULAR DOOR FRAMING DETAILS (SHOWN WITH OPTIONAL MEDIUM STILE OFFSET HUNG SERIES 400-T DOOR SYSTEM)

Revisions By:

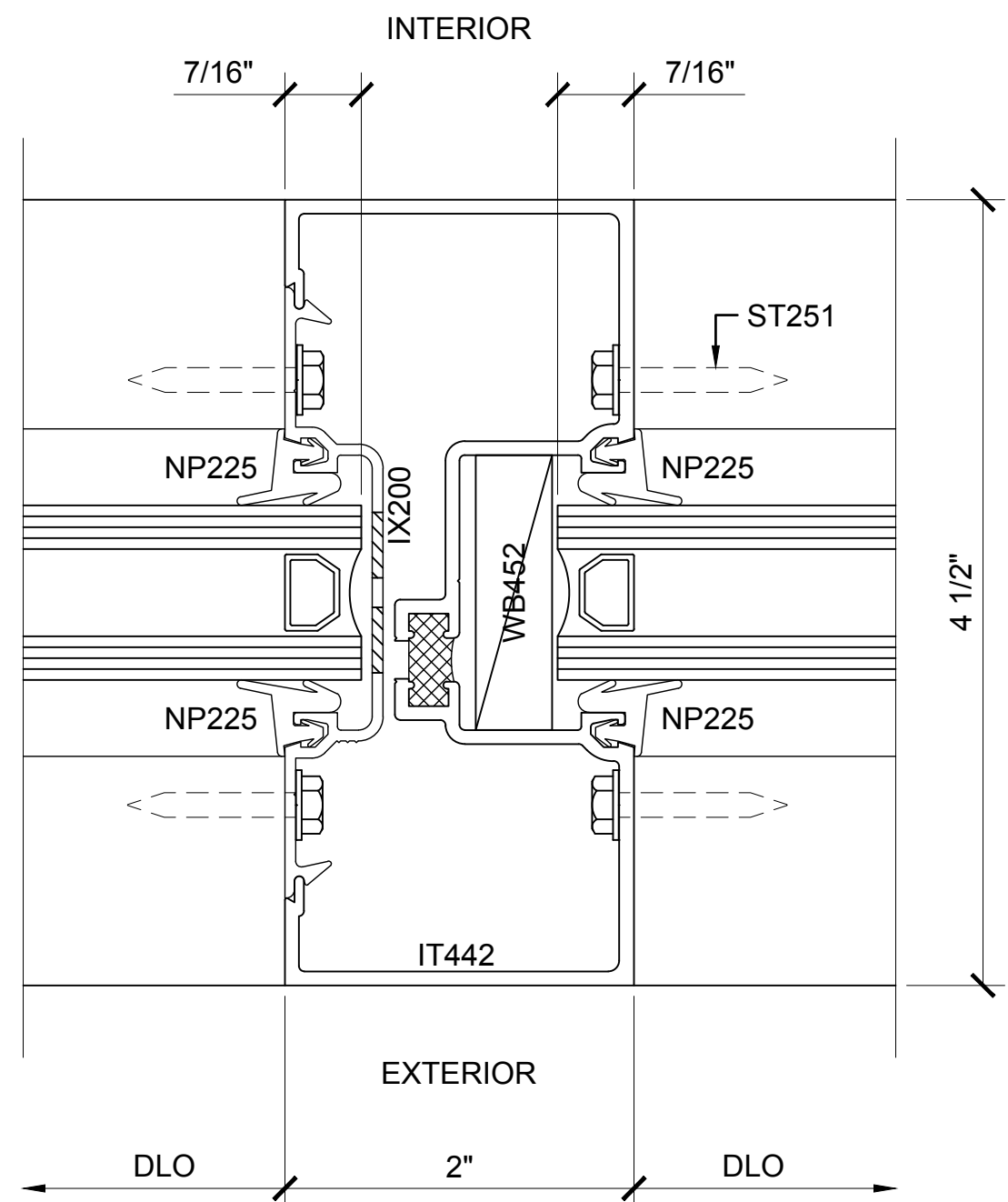


U.S. ALUMINUM
SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

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GLAZED STOREFRONT SYSTEM.dwg

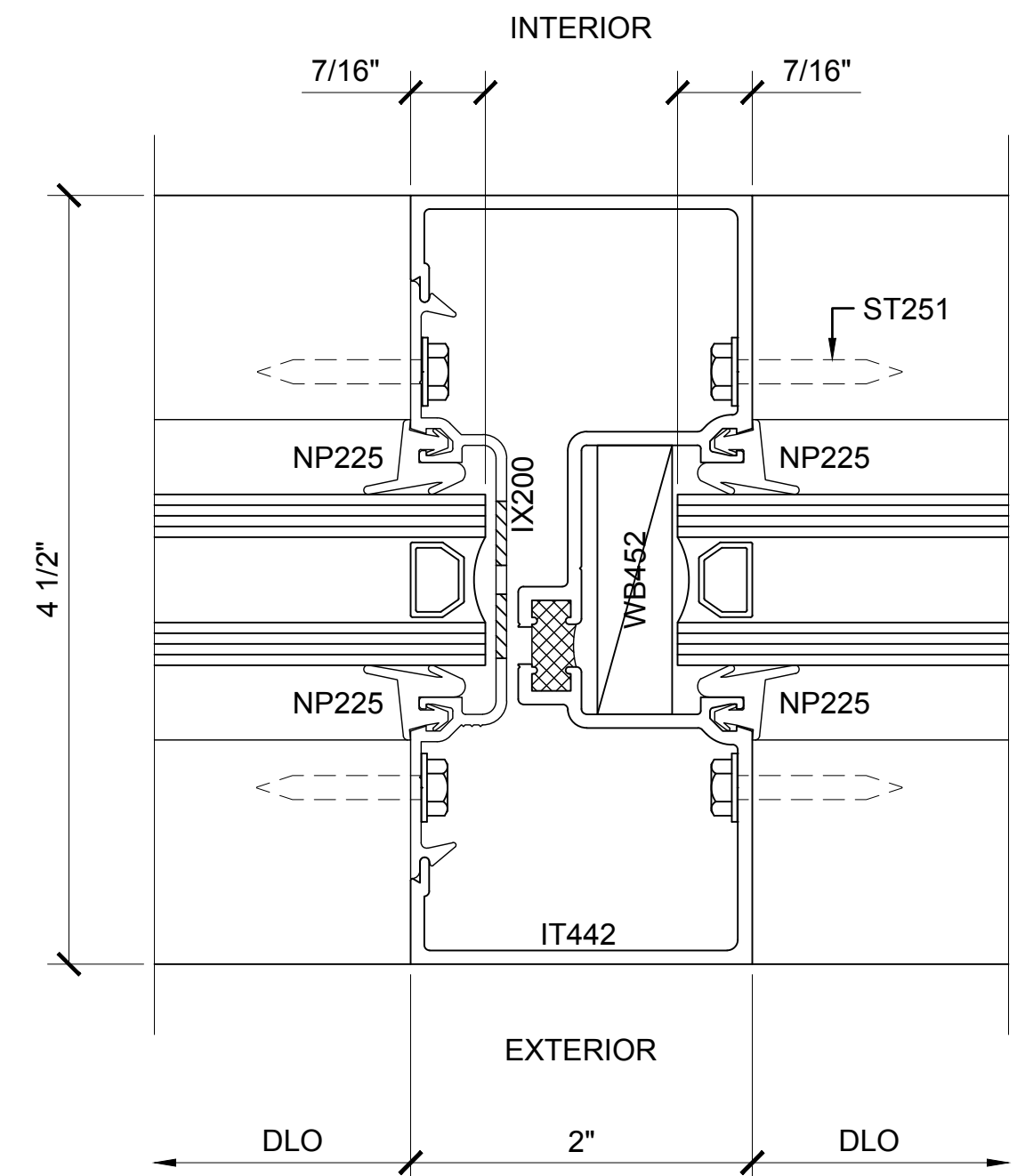
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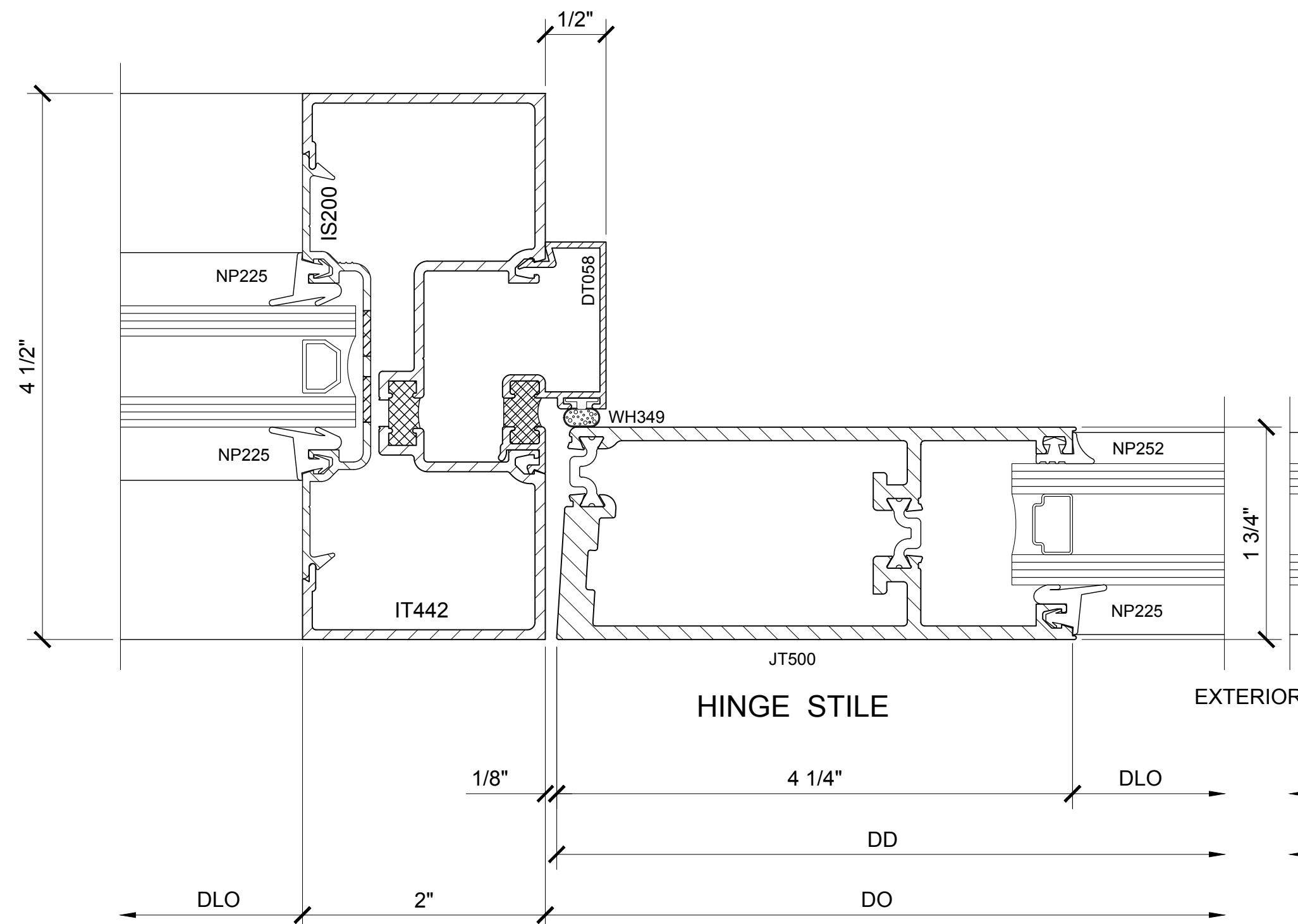
SECTION DETAIL @ VERTICAL

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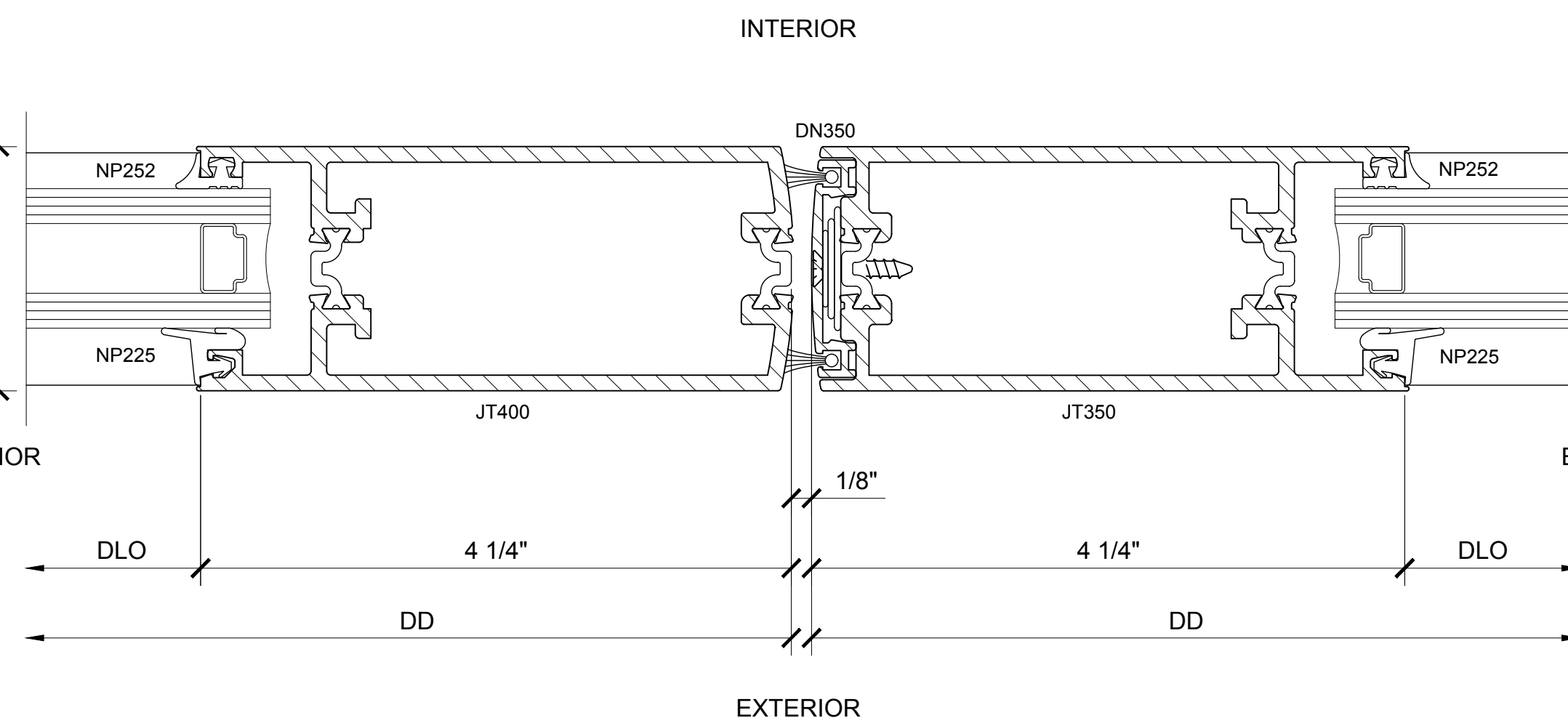
SECTION DETAIL @ VERTICAL

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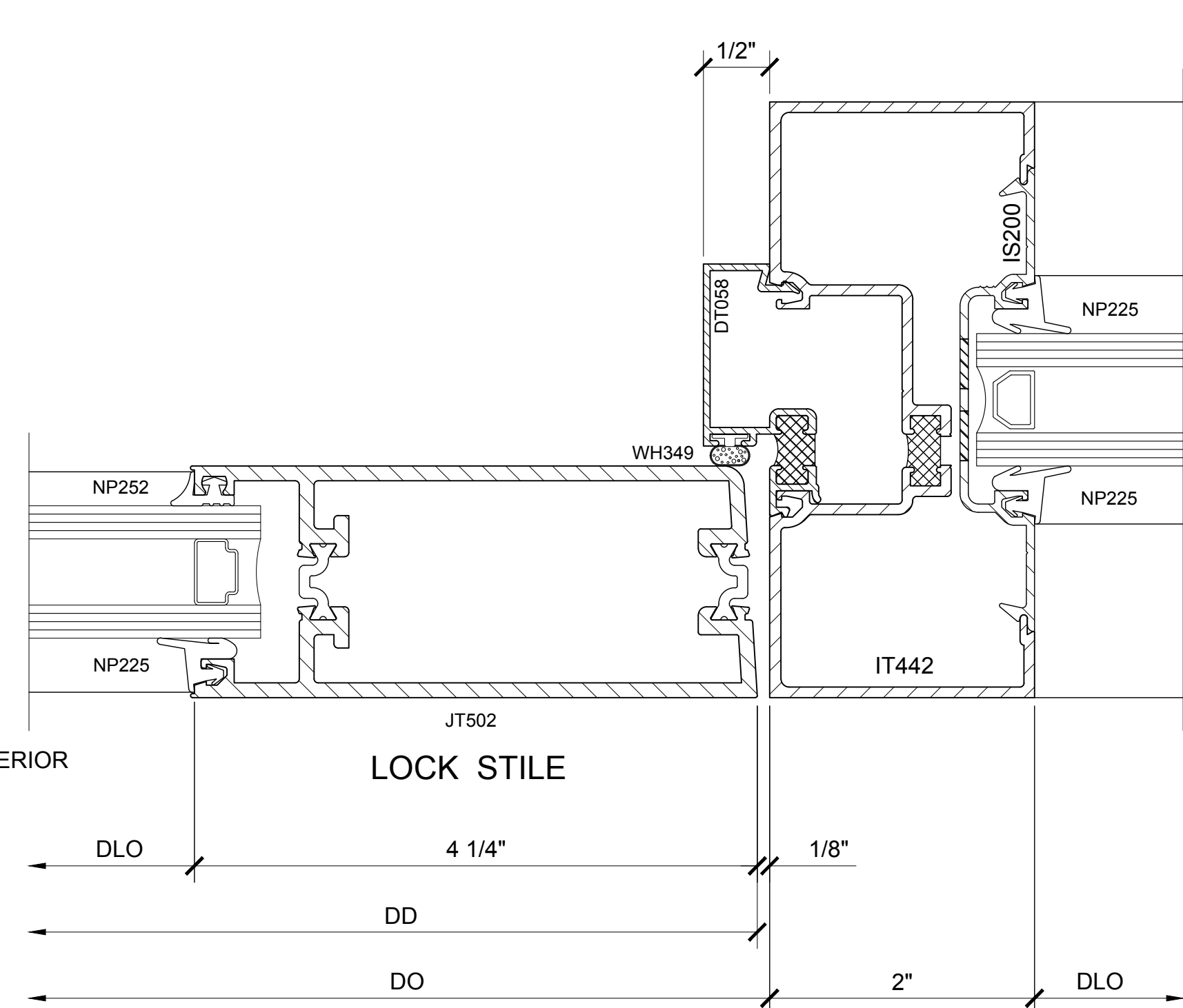
SECTION DETAIL @ DOOR JAMB

18



SECTION DETAIL @ MEETING STILES

19



SECTION DETAIL @ DOOR JAMB
(LOCK STILE FOR SINGLE DOOR)

21

SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM OPEN-BACK DOOR FRAMING DETAILS (SHOWN WITH OPTIONAL MEDIUM STILE OFFSET HUNG SERIES 400-T DOOR SYSTEM)

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STOREFRONT SYSTEM

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GLAZED STOREFRONT SYSTEM.dwg

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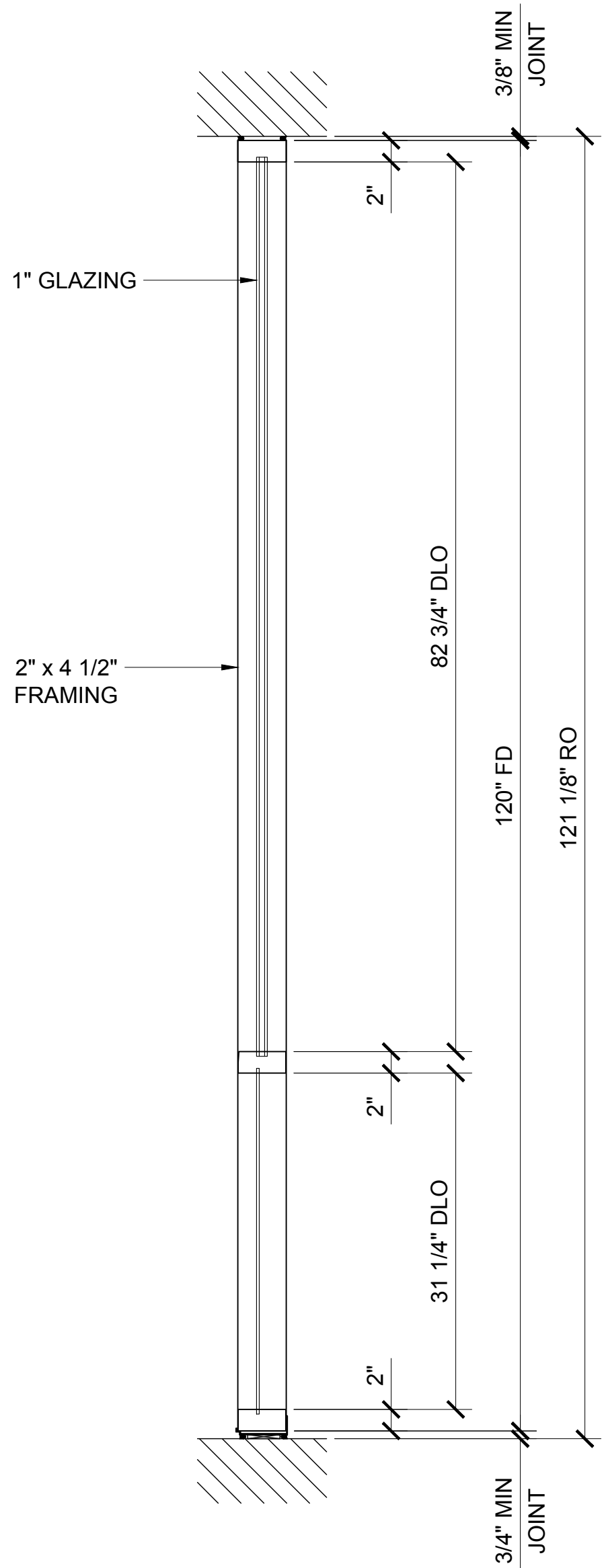
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SERIES IT451 CENTER GLAZED STOREFRONT SYSTEM TRANSITIONAL GLAZING AND SPECIAL DETAILS

Series IT451 offers improved thermal performance using the Poly-Aluminizer™. United States Aluminum offers cost efficient versatile Center Glazed Systems with clean lines and superb performance. Series IT451 may be interior or exterior glazed. A top load EPDM gasket is used to position and weatherseal the glass in the aluminum pocket. Center Glazed Systems are compatible with most United States Aluminum entrance doors.

- 2" x 4 1/2" frame
- 1" Glazing infill (SHOWN) Optional snap-in reducers for 1/4" or 1/2" glass are available
- Struct-Link™ thermal break
- Full range of accessory components
- Available in an array of architectural coatings and anodized finishes
- Screw spline assembly
- Shear block assembly
- Stacking installation option
- Interior or Exterior Glazed



RO	ROUGH OPENING
FD	FRAME DIMENSION
DLO	DAYLITE OPENING
DO	DOOR OPENING
DD	DOOR DIMENSION
SMC	SURFACE MOUNTED CLOSER
OHCC	OVERHEAD CONCEALED CLOSER

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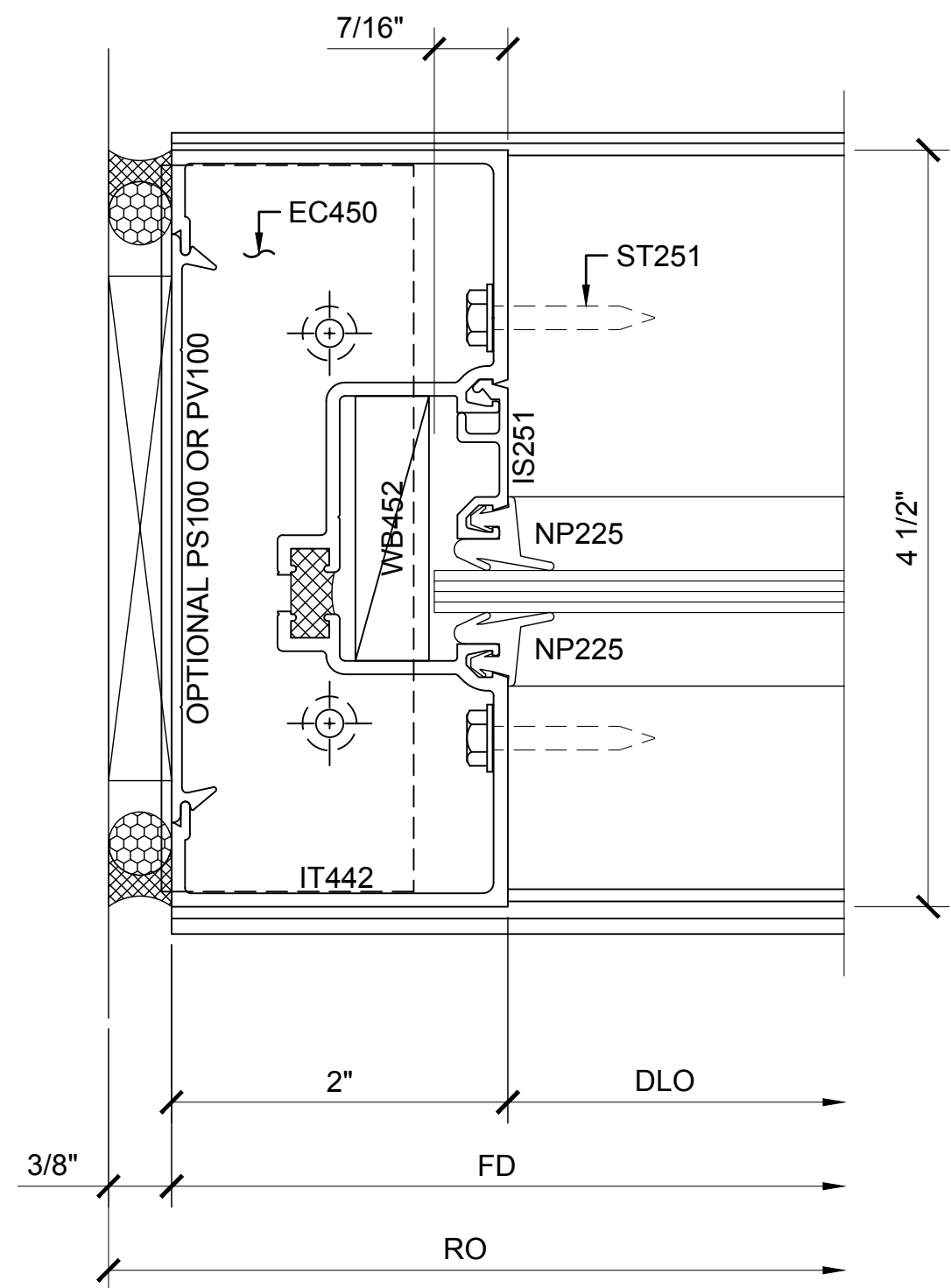
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS
2505 E. Vermont Avenue, Los Angeles, CA 90058-1897
PH (800) 421-6144 FX (800) 387-7501 www.claluminum.com

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STOREFRONT SYSTEM

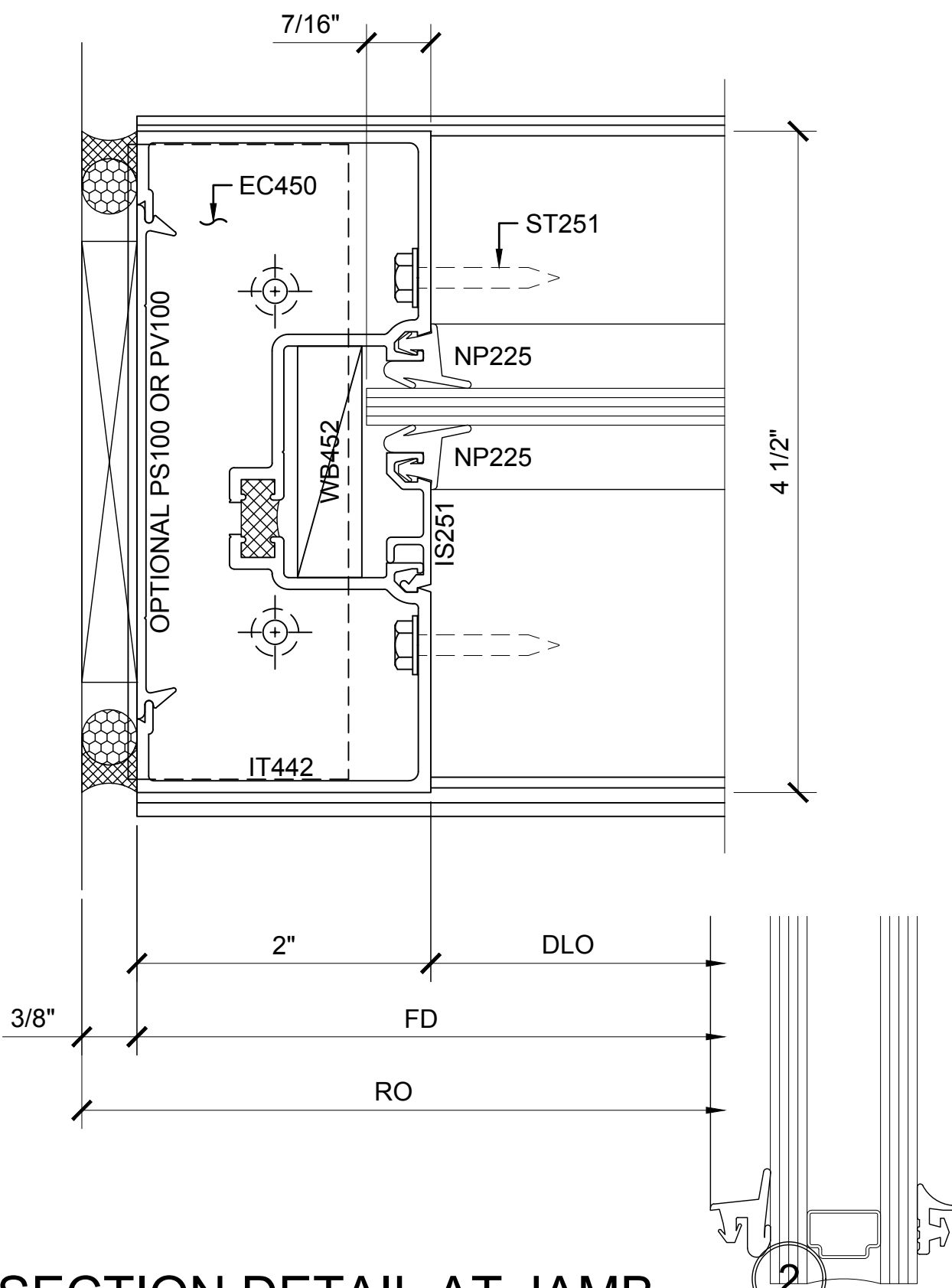
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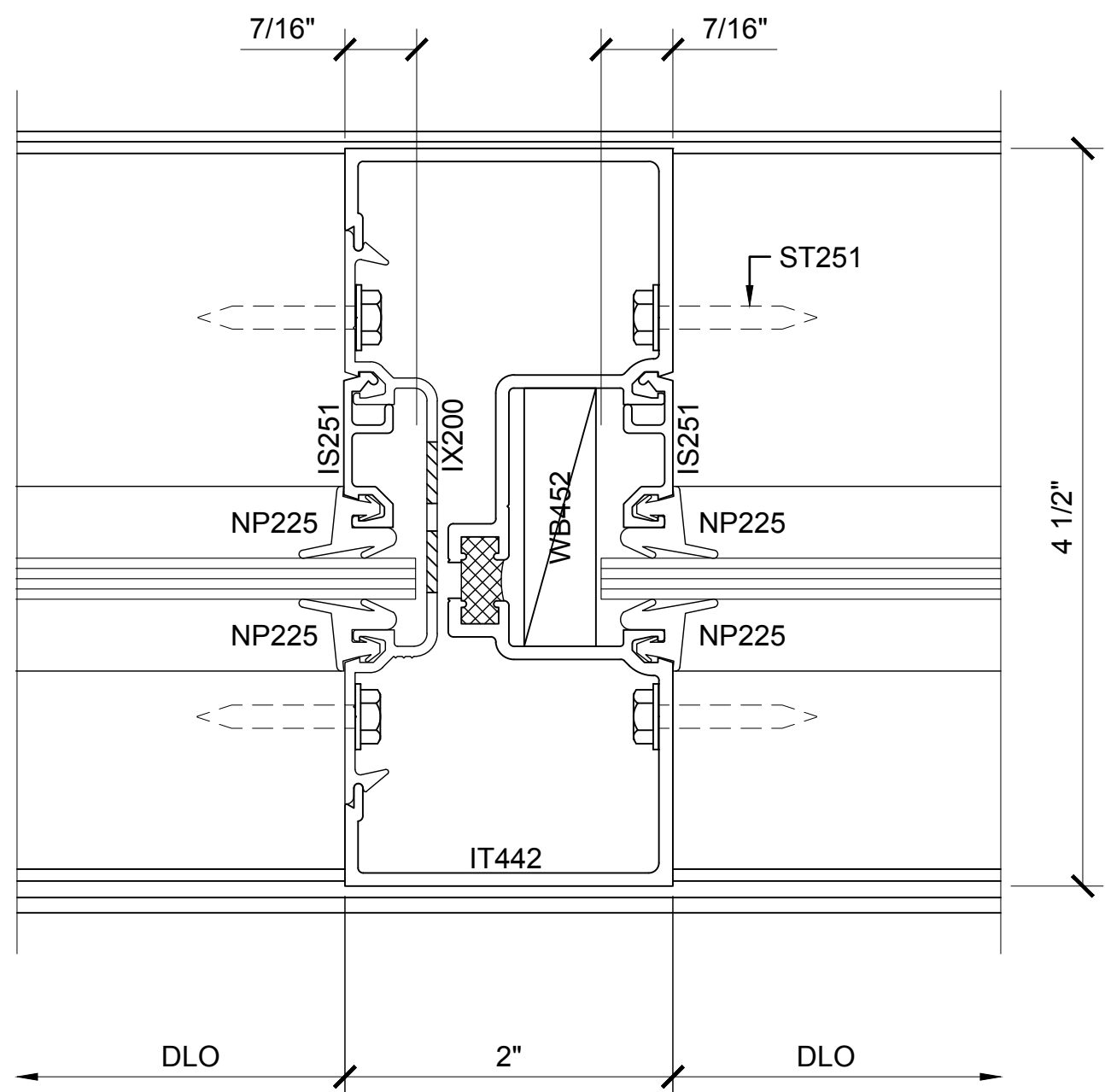
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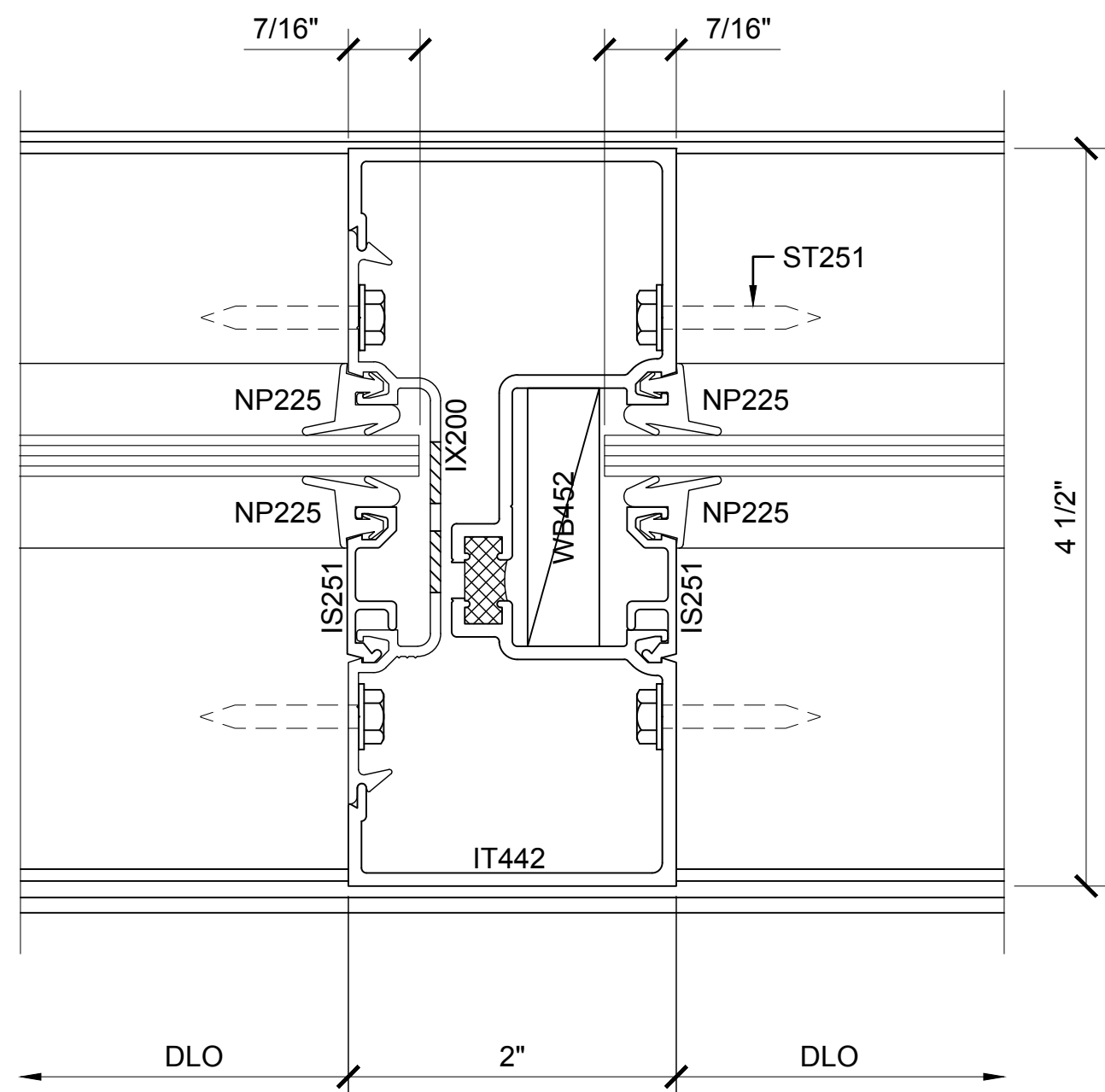
SECTION DETAIL AT JAMB 1
1/4" GLASS - OFFSET EXTERIOR



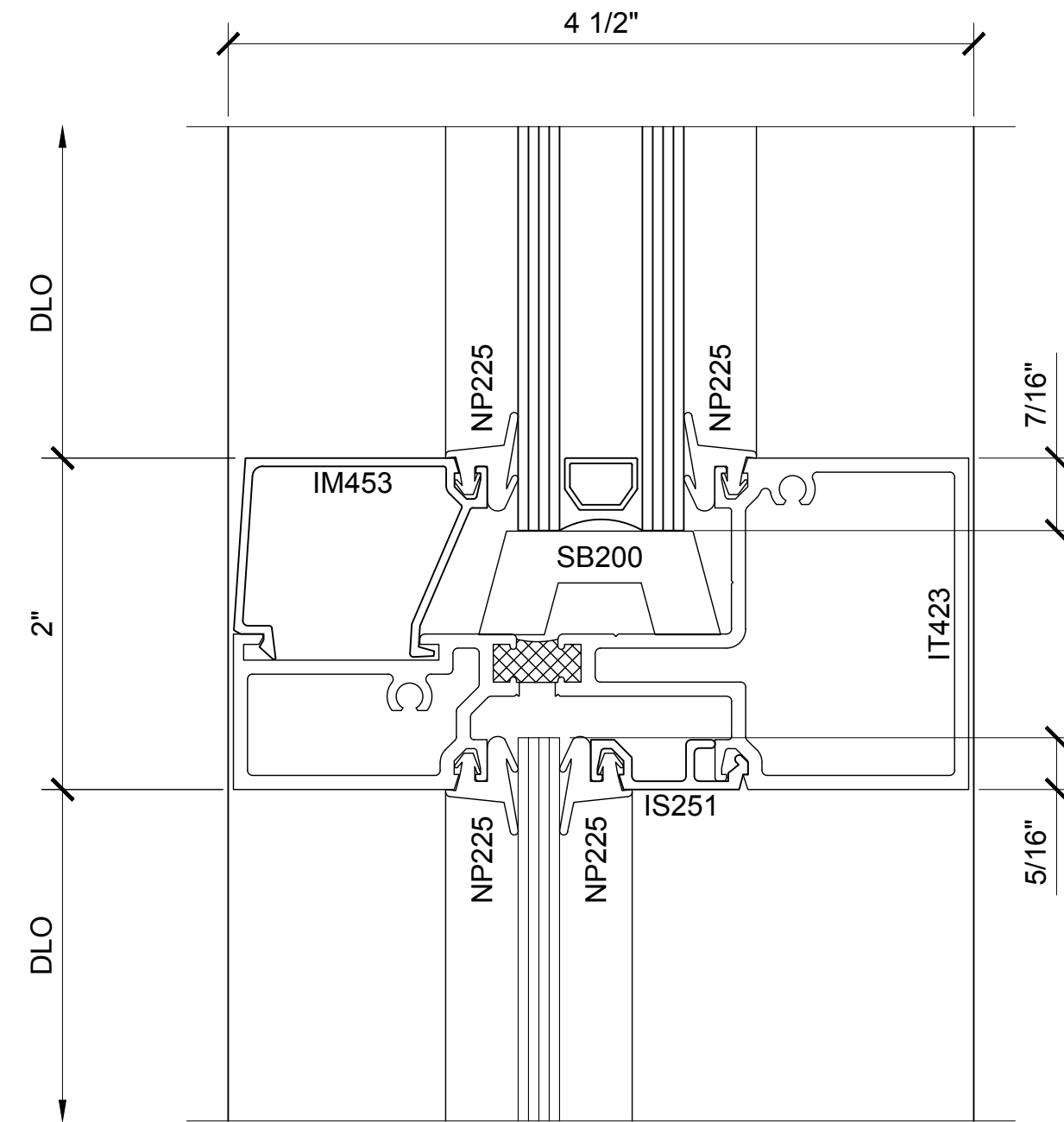
SECTION DETAIL AT JAMB 2
1/4" GLASS - OFFSET INTERIOR



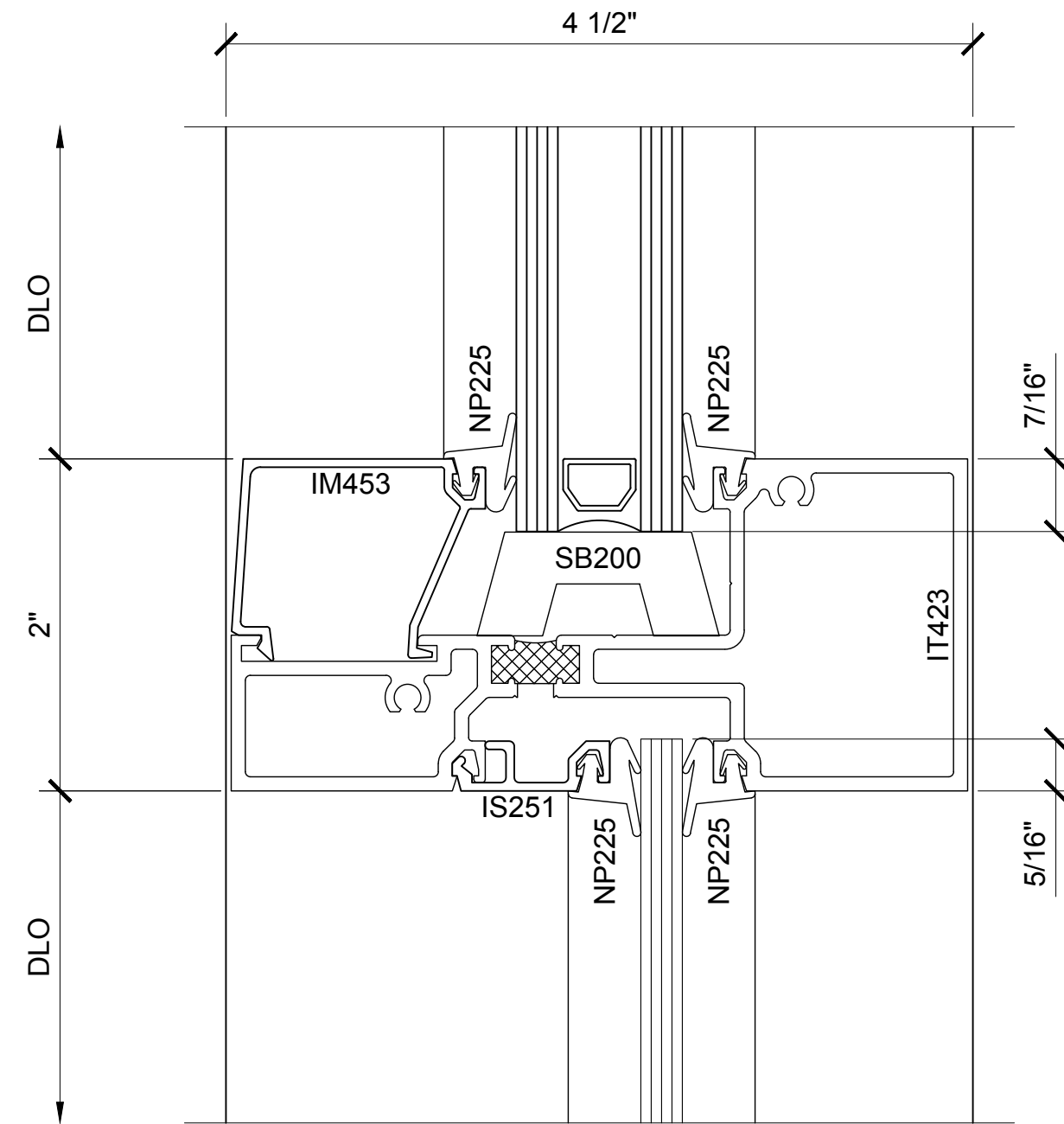
**SECTION DETAIL AT 2 PIECE
INTERMEDIATE VERTICAL** 3
1/4" GLASS - OFFSET EXTERIOR



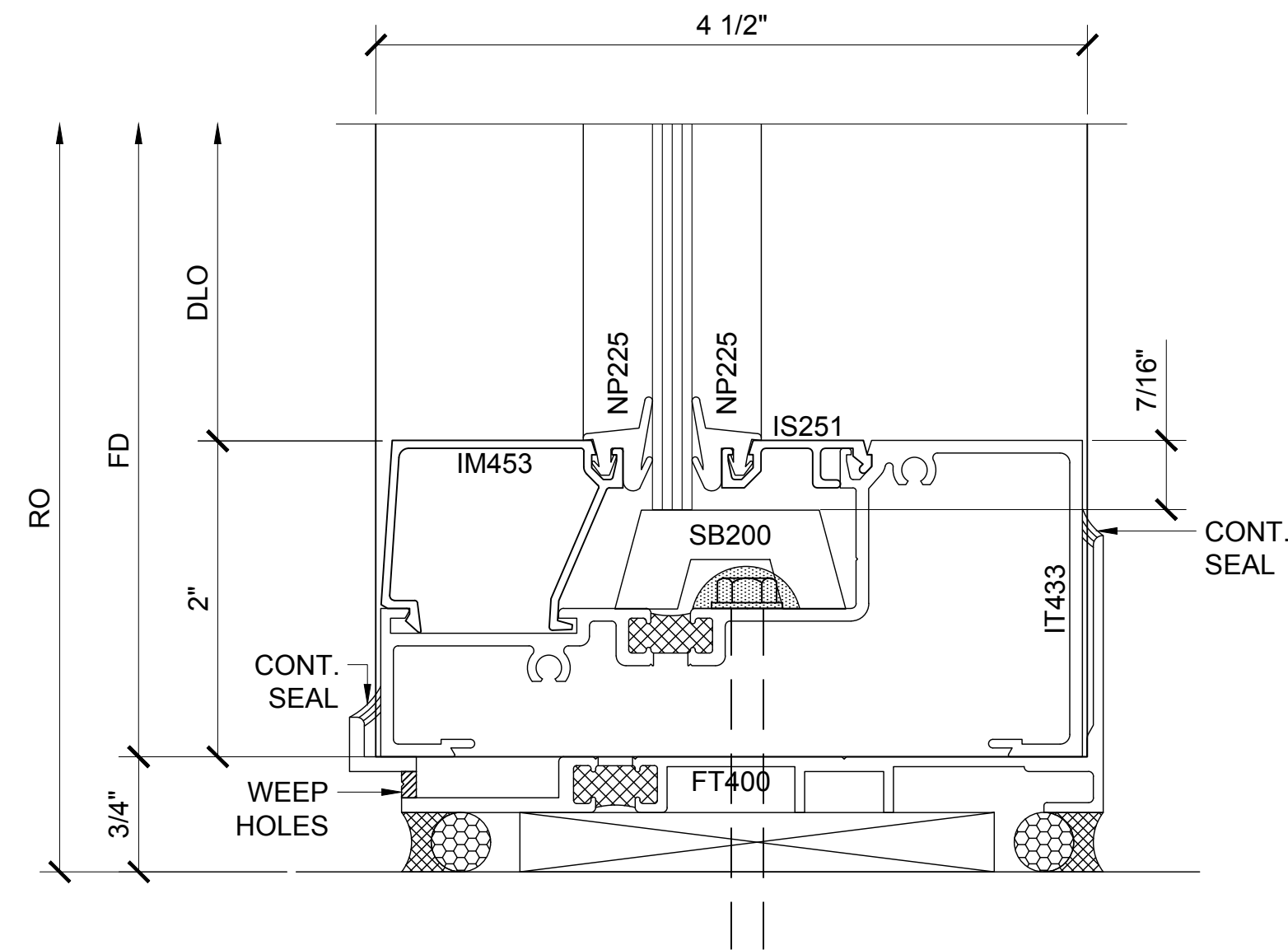
**SECTION DETAIL AT 2 PIECE
INTERMEDIATE VERTICAL** 4
1/4" GLASS - OFFSET INTERIOR



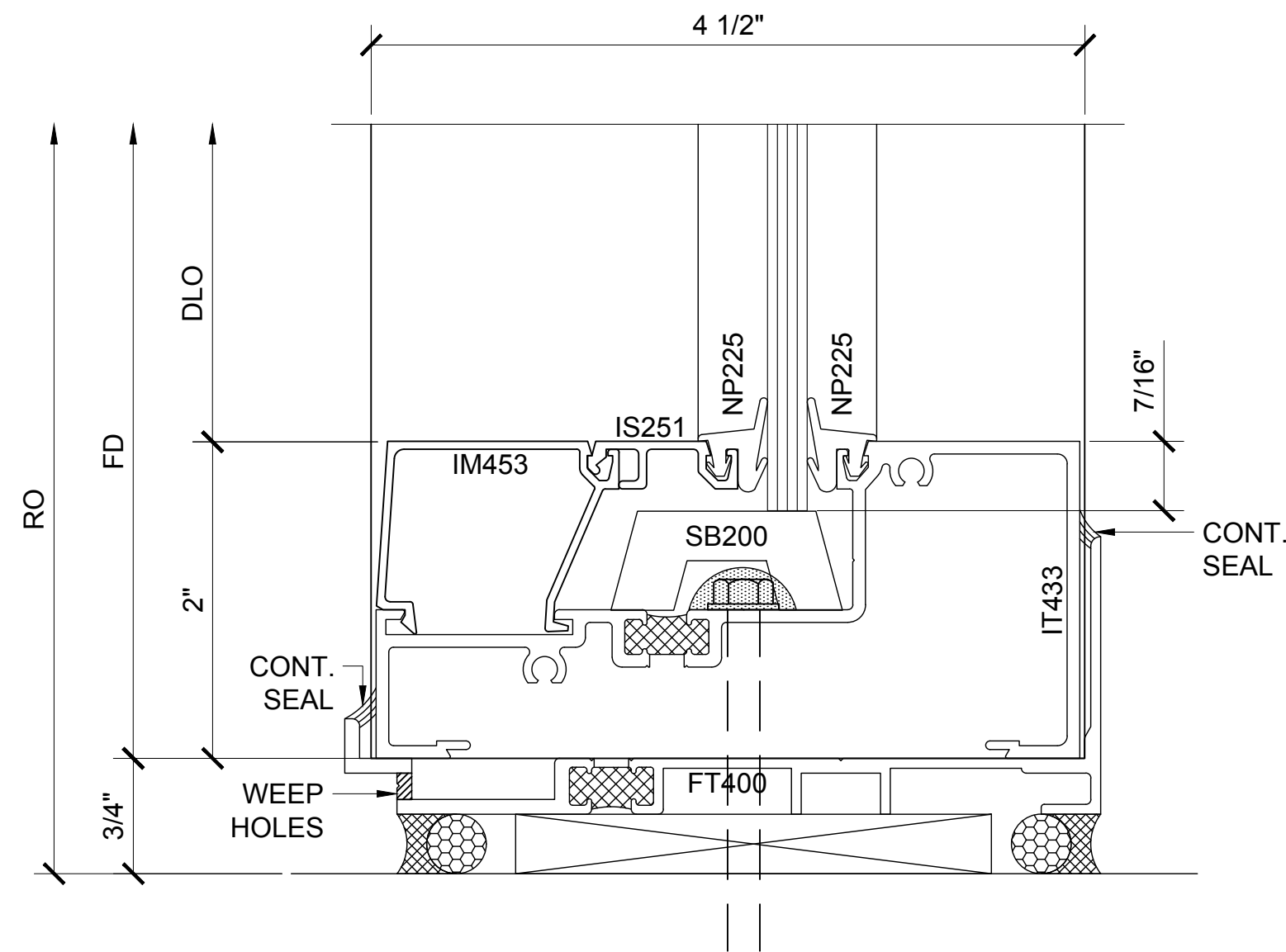
SECTION DETAIL AT
INTERMEDIATE HORIZONTAL 5
1/4" GLASS - OFFSET EXTERIOR



SECTION DETAIL AT
INTERMEDIATE HORIZONTAL 6
1/4" GLASS - OFFSET INTERIOR



SECTION DETAIL AT SILL 7
1/4" GLASS - OFFSET EXTERIOR



SECTION DETAIL AT SILL 8
1/4" GLASS - OFFSET INTERIOR

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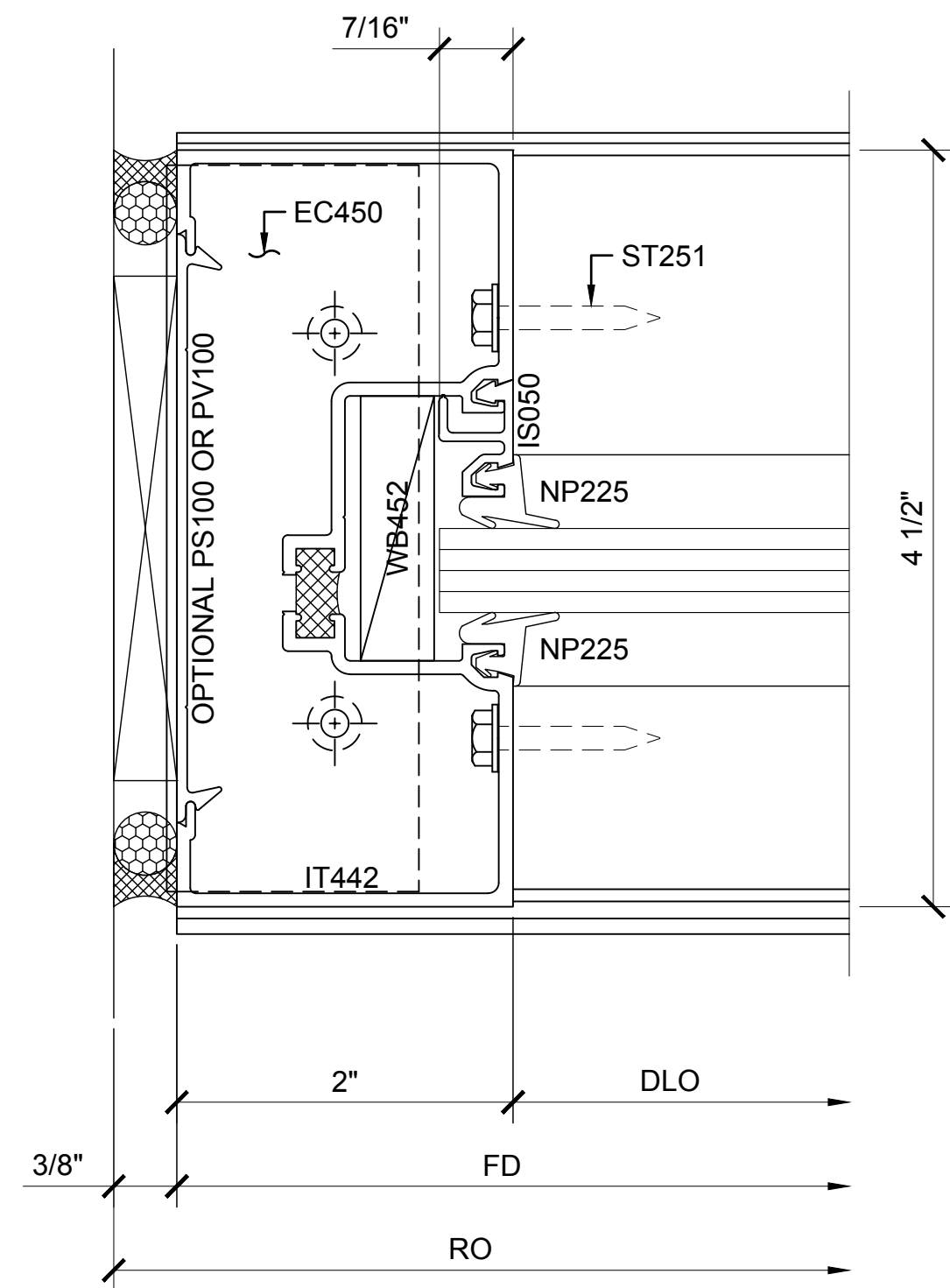
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Description:
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SERIES IT451 CENTER GLAZED
STOREFRONT SYSTEM

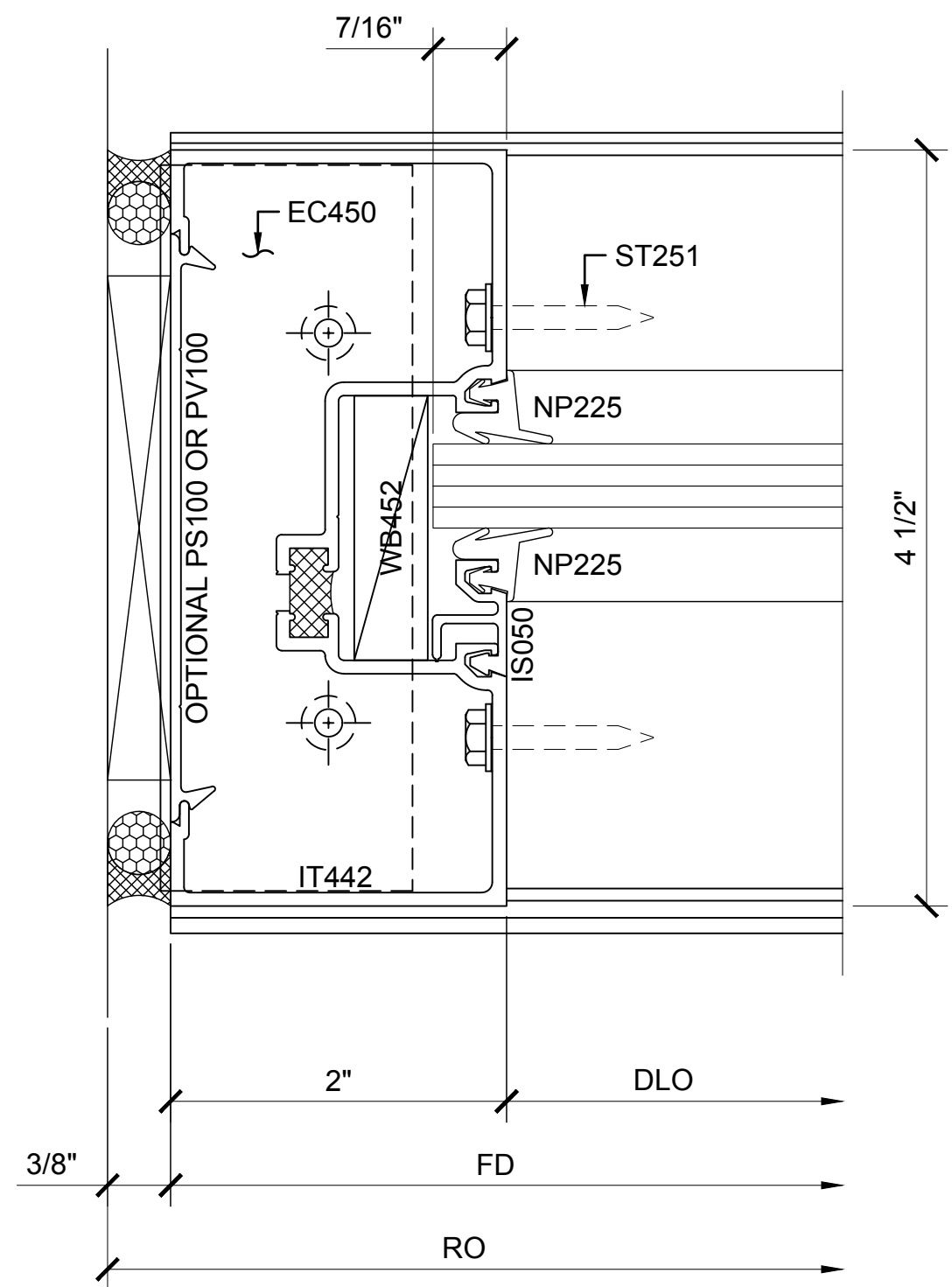
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GLAZED STOREFRONT SYSTEM.dwg

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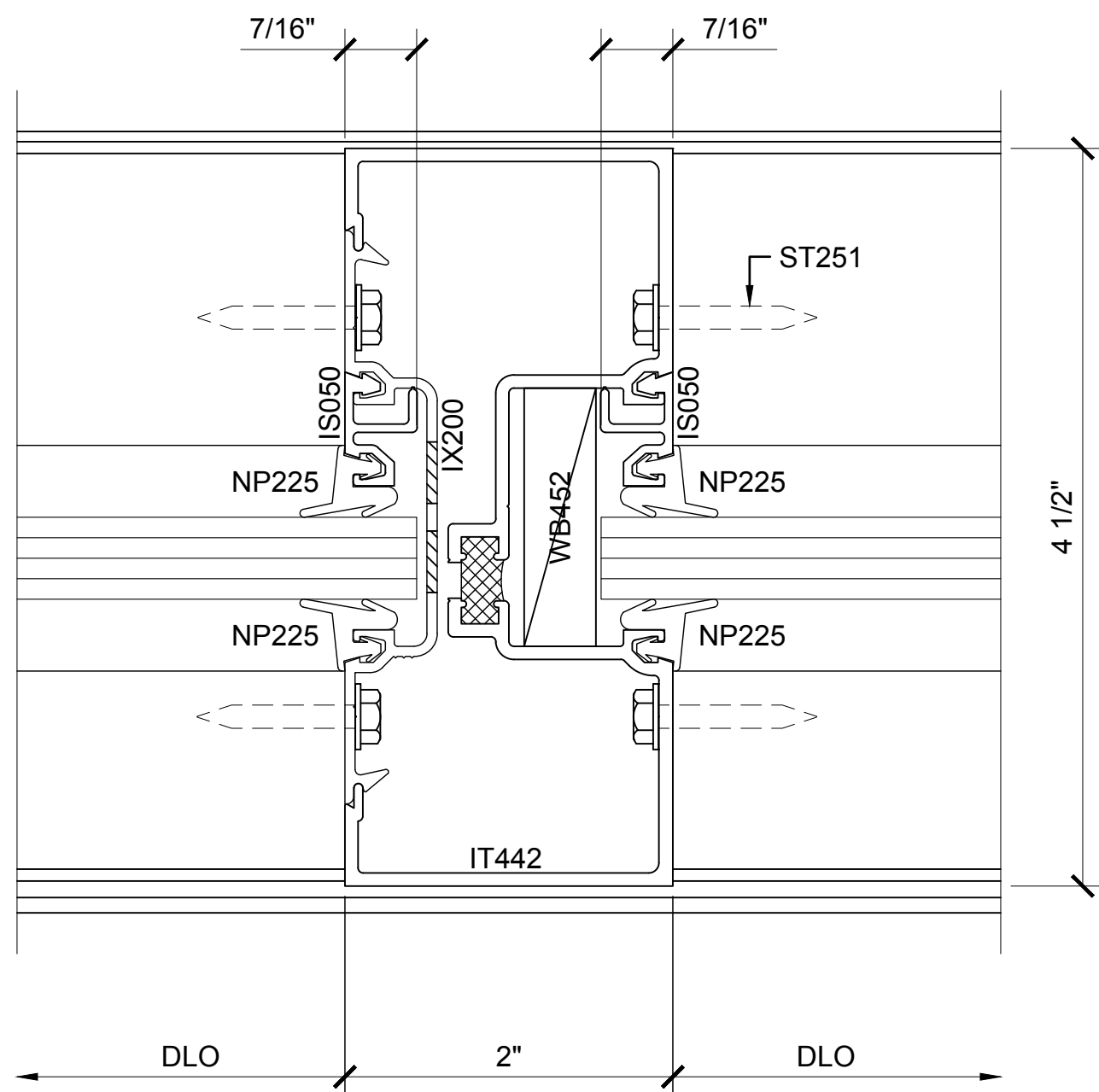
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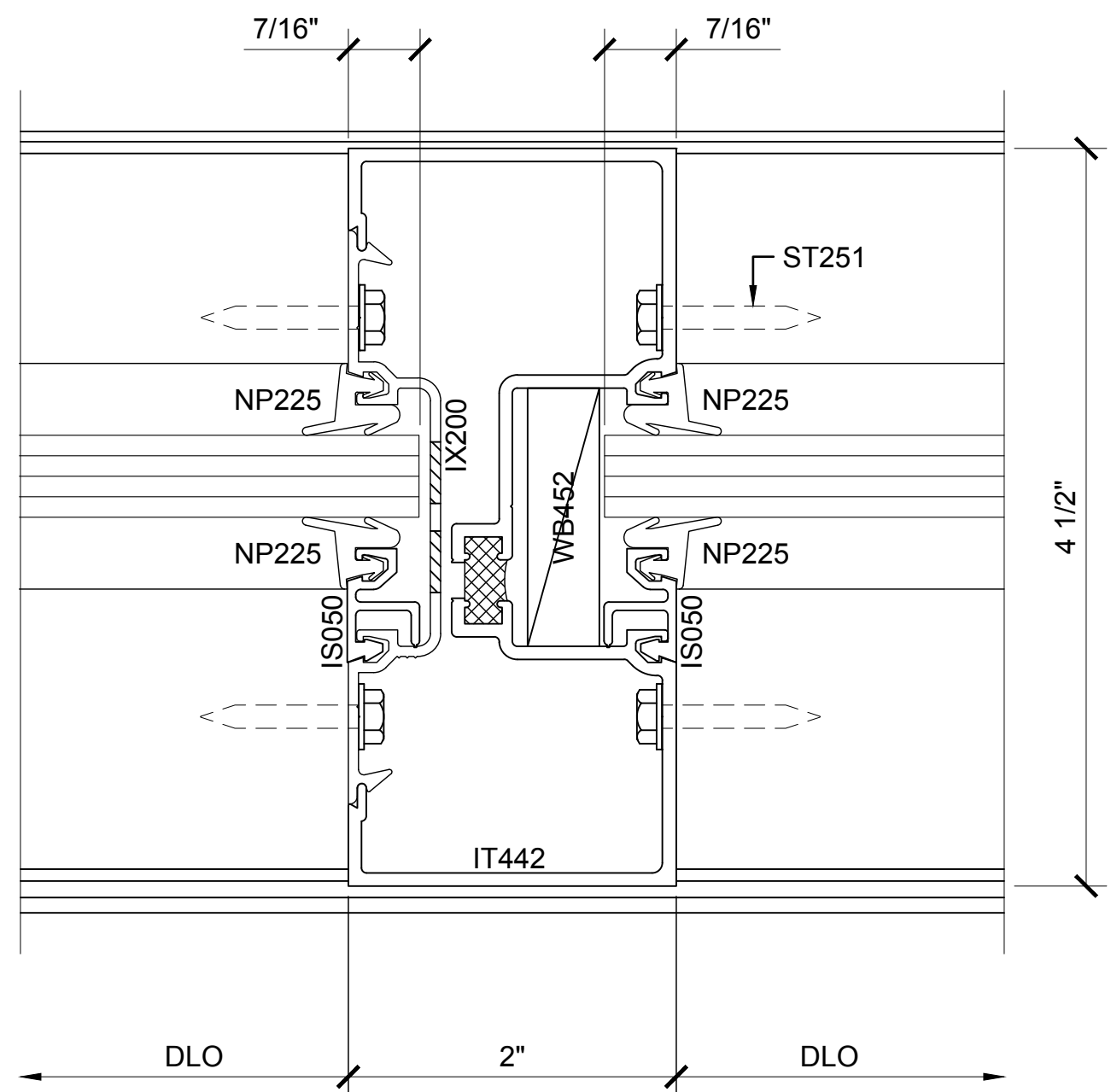
SECTION DETAIL AT JAMB ①
1/2" GLASS - OFFSET EXTERIOR



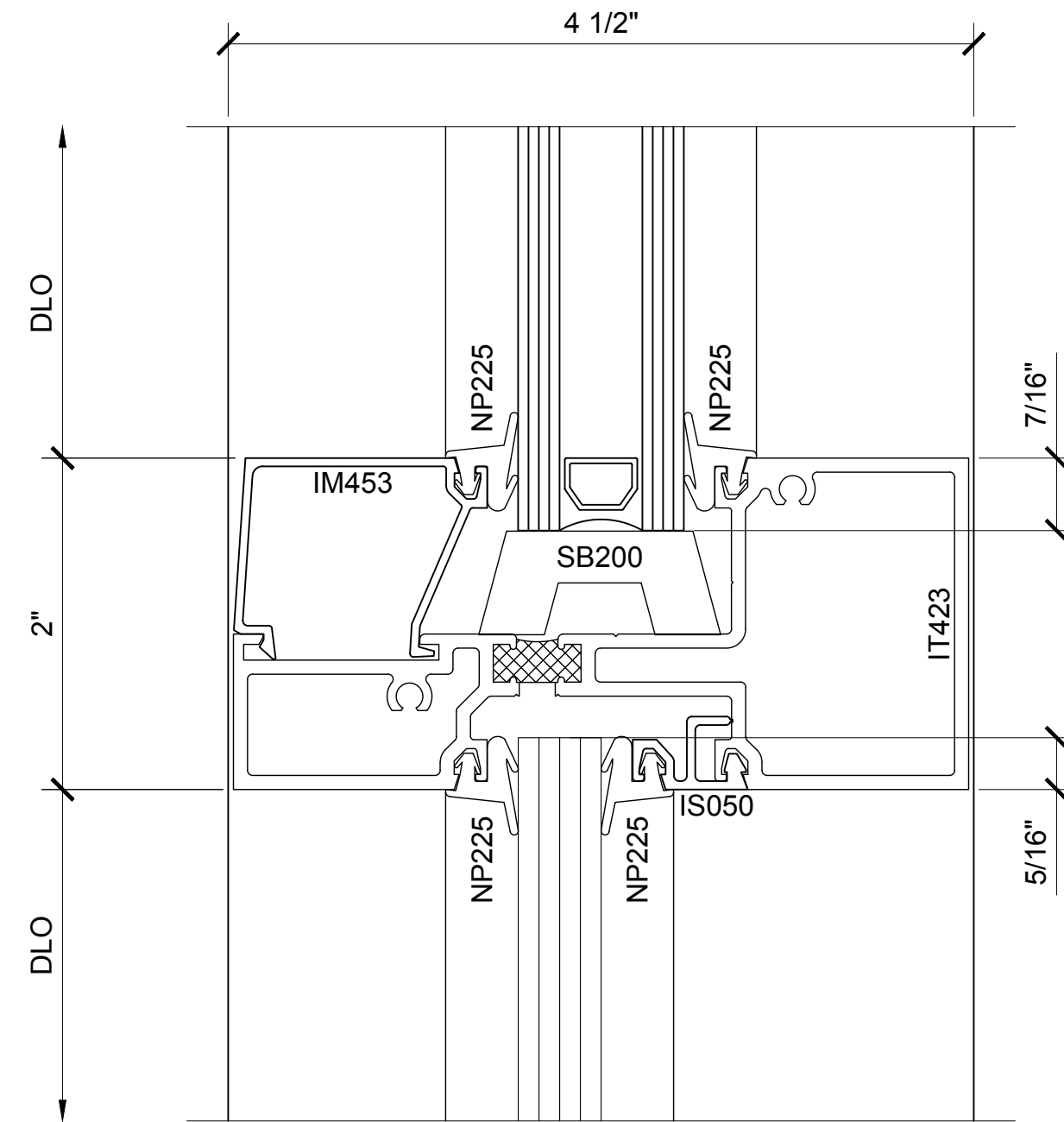
SECTION DETAIL AT JAMB ②
1/2" GLASS - OFFSET INTERIOR



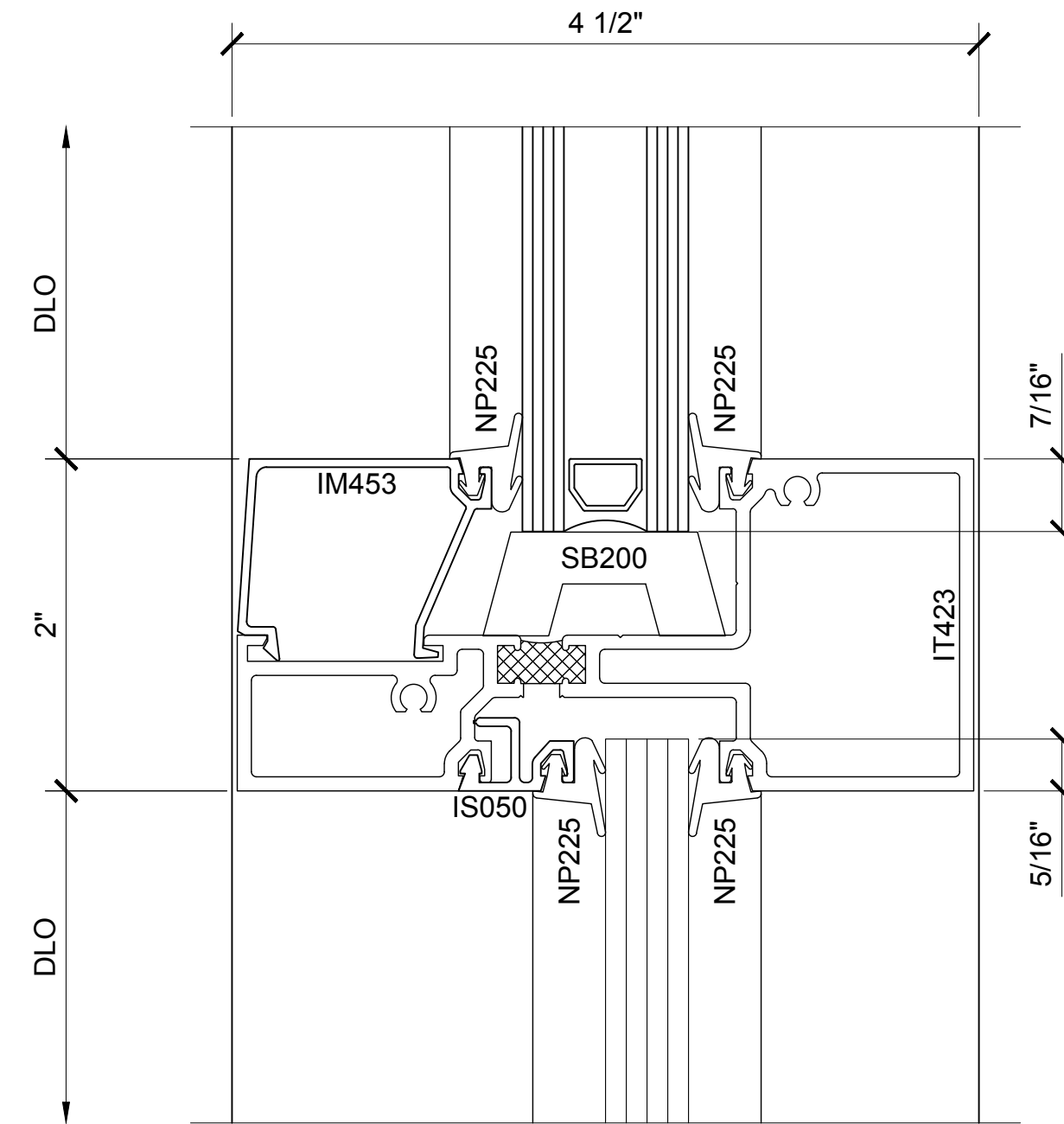
**SECTION DETAIL AT 2 PIECE
INTERMEDIATE VERTICAL** ③
1/2" GLASS - OFFSET EXTERIOR



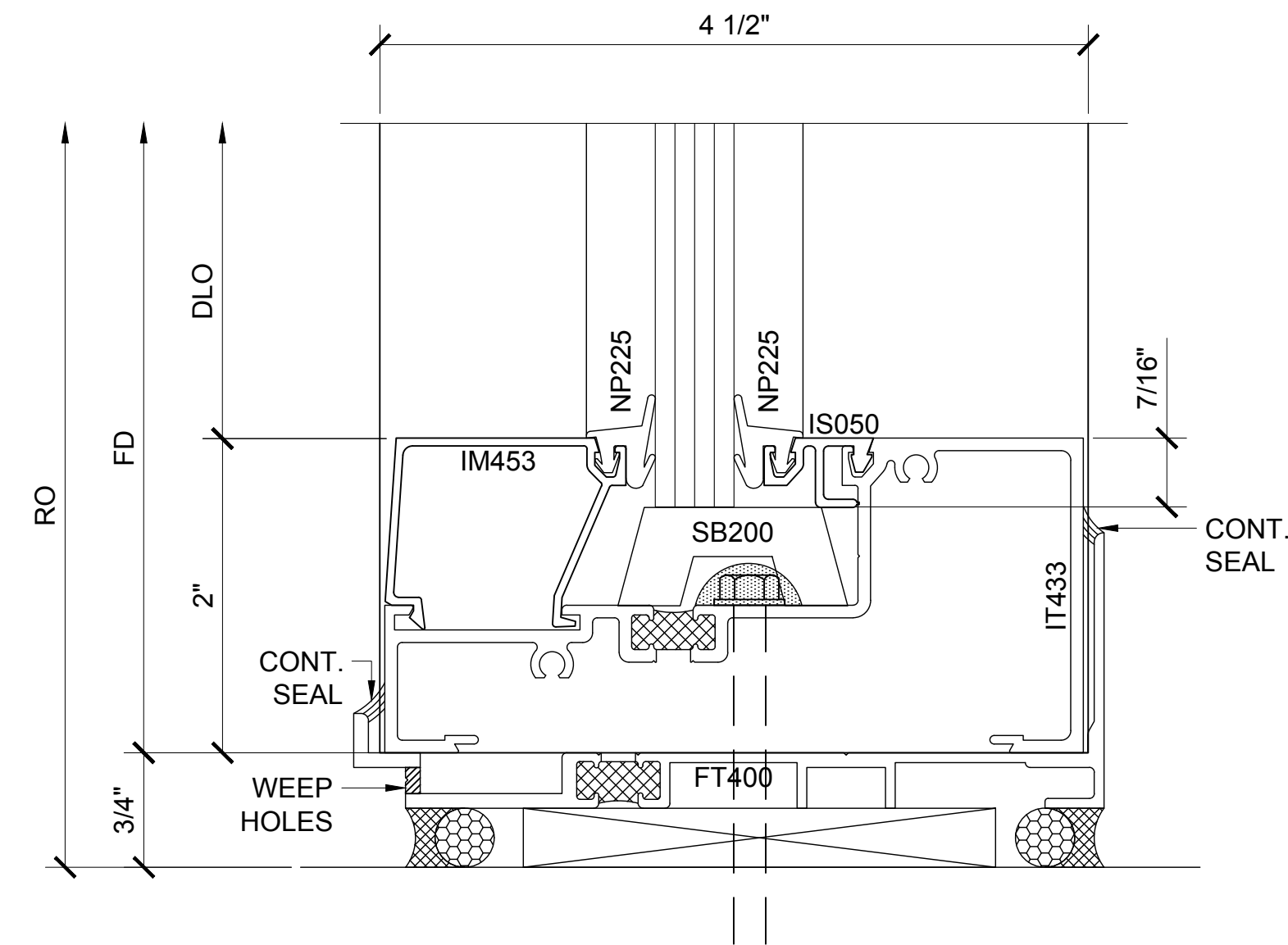
**SECTION DETAIL AT 2 PIECE
INTERMEDIATE VERTICAL** ④
1/2" GLASS - OFFSET INTERIOR



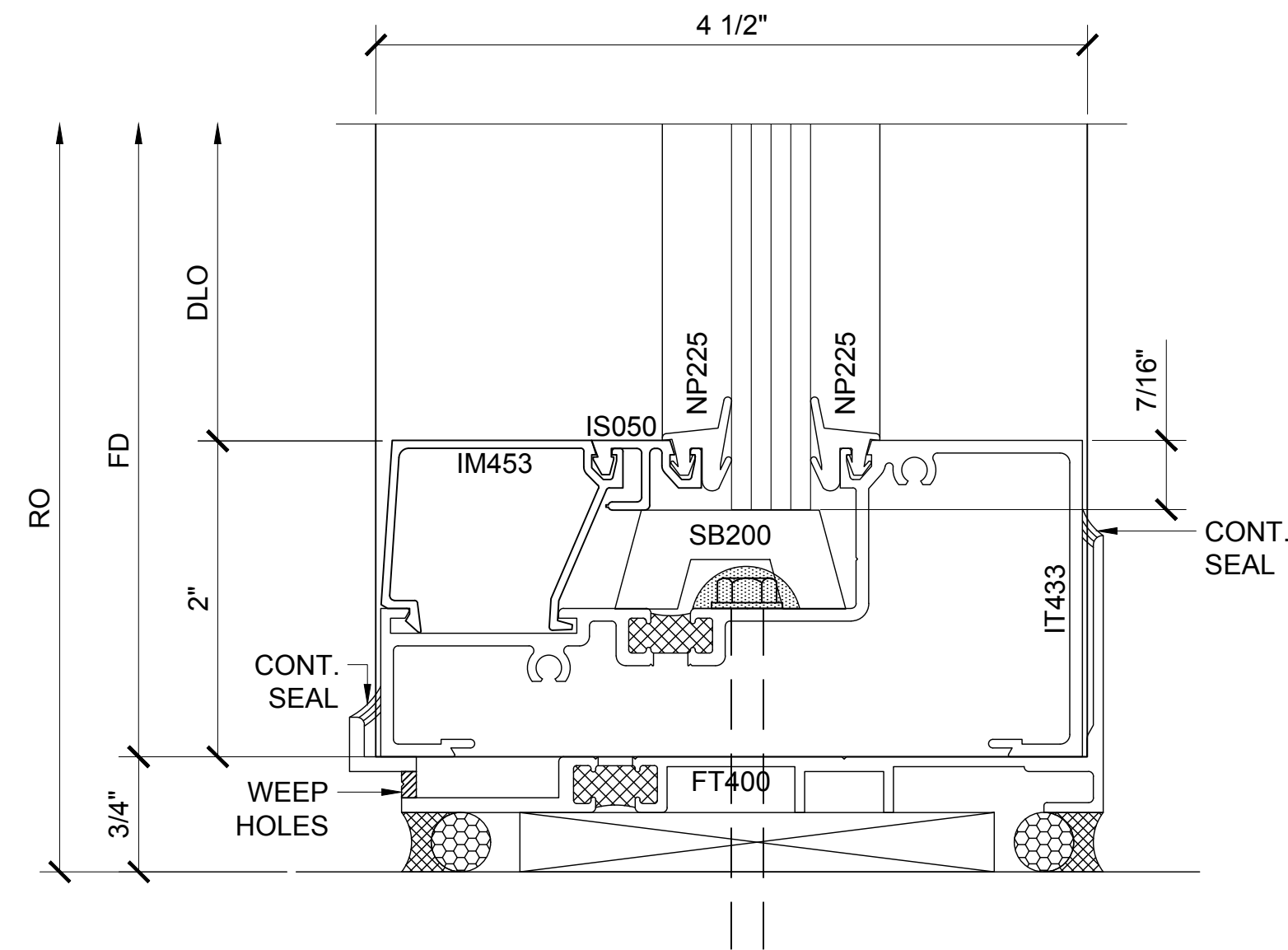
SECTION DETAIL AT
INTERMEDIATE HORIZONTAL 5
1/2" GLASS - OFFSET EXTERIOR



SECTION DETAIL AT
INTERMEDIATE HORIZONTAL 6
1/2" GLASS - OFFSET INTERIOR



SECTION DETAIL AT SILL 7
1/2" GLASS - OFFSET EXTERIOR



SECTION DETAIL AT SILL 8
1/2" GLASS - OFFSET INTERIOR

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