GENERAL NOTES

1. THIS CURTAIN WALL SYSTEM HAS BEEN TESTED TO ASTM E 330, ASTM E 283, ASTM E 331, AAMA 501.1, AND AAMA 501.4, AND MEETS THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND INTERNATIONAL RESIDENTIAL CODE, WITH 2006 TEXAS REVISIONS EFFECTIVE JANUARY 1, 2008.
2. THIS APPROVAL DRAWING REPRESENTS THE AS-TESTED PRODUCT CONFIGURATIONS (TESTED BY CONSTRUCTION CONSULTING LABORATORY, CARROLLTON, TEXAS, REPORT CCLI-15-042) AND IS NOT INTENDED TO LIMIT ANALYSIS OF OTHER CONFIGURATIONS OR OPTIONS. THIS TESTING ALSO QUALIFIES TUBELITE 400TU FRAMING OF SIMILAR CONFIGURATIONS IN GREATER FRAMING DEPTHS. THE INSTALLED CURTAIN WALL SYSTEM SHALL BE FABRICATED, GLAZED, AND ANCHORED IN ACCORDANCE WITH SHOP DRAWINGS FOR EACH PROJECT, PREPARED BY A TEXAS LICENSED ENGINEER FAMILIAR WITH CURTAIN WALL DESIGN. THIS ENGINEER OF RECORD SHALL TAKE FULL RESPONSIBILITY FOR THE INSTALLED SYSTEM DESIGN AS A WHOLE.
3. THIS DRAWING INDICATES VARIOUS APPROVED GLAZING METHODS AND FRAMING TYPES WHICH MAY BE USED SINGLY OR IN COMBINATION FOR EACH PROJECT. ANY NUMBER OF PANELS MAY BE USED HORIZONTALLY PROVIDED THE MAXIMUM DLO SIZES AS INDICATED IN THIS DRAWING ARE NOT EXCEEDED.
4. THIS PRODUCT IS NON-IMPACT AND REQUIRES THE USE OF APPROVED IMPACT PROTECTIVE DEVICES IN WINDBORNE DEBRIS AREAS.
5. REQUIRED DESIGN PRESSURES SHALL BE DETERMINED FOR EACH PROJECT IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND GOVERNING WIND SPEEDS FOR THE PROJECT LOCATION.
6. THE ALLOWABLE DESIGN PRESSURE RATINGS IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300-04 GLASS TABLES, TESTING, AND CALCULATIONS.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING BUT NOT LIMITED TO FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SUBSTRATES OR ALUMINUM, SHALL BE COATED OR OTHERWISE PROTECTED PER FBC REQUIREMENTS TO PREVENT CORROSION OR GALVANIC REACTIONS.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT ARE NOT WITHIN THE SCOPE OF THIS APPROVAL AND SHALL BE THE RESPONSIBILITY OF OTHERS.
9. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF WOOD SUBSTRATE.
10. STRUCTURAL INTEGRITY OF SUBSTRATE MATERIALS TO RECEIVE THE LOADS FROM THIS PRODUCT, TO BE VERIFIED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
11. THIS PRODUCT SHALL BE INSTALLED USING ONE OF THE APPROVED FASTENING OR WELDING METHODS INDICATED IN THIS DRAWING, AS APPROPRIATE FOR THE SUBSTRATE TYPE, OR BY OTHER METHOD APPROVED BY THE ENGINEER OF RECORD AS DESCRIBED IN NOTE 2 ON APPROVED SHOP DRAWINGS.
12. MINIMUM ANCHOR EMBEDMENTS LISTED IN TABLE A SHALL BE BEYOND WALL DRESSING OR STUCCO AND FULLY INTO SUBSTRATE.
13. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE E, SHEET 2. CONCRETE SUBSTRATES SHALL NOT BE CRACKED.

MATERIAL NOTES

TUBELITE - 400TU ULTRA THERMAL CURTAIN WALL

DESIGN PRESSURE:
- WINDLOADS : DESIGN PRESSURE OF +/- 40 PSF

ALUMINUM ALLOYS:
- 6063-T6 FOR ALL FRAMING MEMBERS.
- 6061-T6 or 6005-T5 FOR ALUMINUM ANCHORS & STRUCTURAL MEMBERS.
- 3003-H14 FOR ALL FORMED ALUMINUM SHAPE UNLESS NOTED ON DETAIL.

STEEL:
- ALL CARBON STEEL ROLLED SHAPES, PLATES AND BARS SHALL BE ASTM A-36 STEEL U.N.O.
- WELDING SHALL BE DONE IN ACCORDANCE OF WITH AWS D1.1

DISSIMILAR METALS PROTECTION:
- ALUMINUM TO STEEL - ISOLATOR SLIP PAD OR TAPE PER DETAILS

FASTENERS:
- SEE TABLE A AND FASTENER SCHEDULES IN DETAILS THROUGHOUT DRAWINGS

GLASS
- 1/4" TEMPERED O.B. - 1/2" AIR SPACE - 1/4" TEMPERED I.B.

GLAZING MATERIALS
- TO MEET GANA GUIDLINES AND ASTM C 864, ASTM C 1115

SEALANTS:
- ALL SHOP APPLIED WEATHER SEAL SILICONE TO BE DOW CORNING 795 - COLOR BLACK
- ALL SHOP APPLIED STRUCTURAL SILICONE TO BE DOW CORNING 995 - COLOR BLACK.
- ALL BACKER RODS TO BE CLOSED "SOF-ROD" CELL NON GASSING MATERIAL COMPATIBLE WITH SEALANT PER SEALANT MANUFACTURER'S RECOMMENDATION.
- SURFACES TO RECEIVE SEALANT SHALL BE THOROUGHLY CLEANED, PRIMED AND INSTALLED IN ACCORDANCE WITH THE SEALANT MANUFACTURER'S TECHNICAL REVIEW AND THE MATERIAL ADHESION AND COMPATIBILITY TESTING.

DEFLECTION OF FRAMING MEMBERS
- NORMAL TO WALL PLANE: LIMITED TO 1/175 OF CLEAR SPANS UP TO 13'-6" AND TO 1/240 OF CLEAR SPAN PLUS 1/4 INCH FOR SPANS GREATER THAN 13'-6"

TABLE OF CONTENTS:

SHTS	CONTENT
C1	NOTES, ANCHORS
E1.0-E2.0	ELEVATION VIEWS
D1.0-D2.3	SECTION DETAILS
D3.0-D3.4	ANCHOR DETAILS
D4.0-D4.2	JOINERY DETAILS
D4.3-D4.5	SEALANT DETAILS
P1.0	PROFILE DRAWINGS

TABLE A. QUALIFIED ANCHOR INFORMATION

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/2" HILTI KWIK BOLT 3 CARBON OR STAINLESS STEEL	2 1/4"	3 3/8"
B	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/2" POWERS WEDGE CARBON OR STAINLESS STEEL	3 1/2"	4 1/2"
D	SOUTHERN PINE WOOD (G=0.55 MIN)	1/2" GRADE 5 LAG SCREW	3"	2"
E	1/4" ALUM. 6063-T5 MIN. OR 1/4" STEEL 36 KSI MIN.	1/2-13 GRADE 5 BOLT WITH WASHERS, LOCK WASHER, AND NUT OR THREADED INTO METAL	FULL	1 1/4"

Lucas A. Turner
2016-02-20
11:57-05:00

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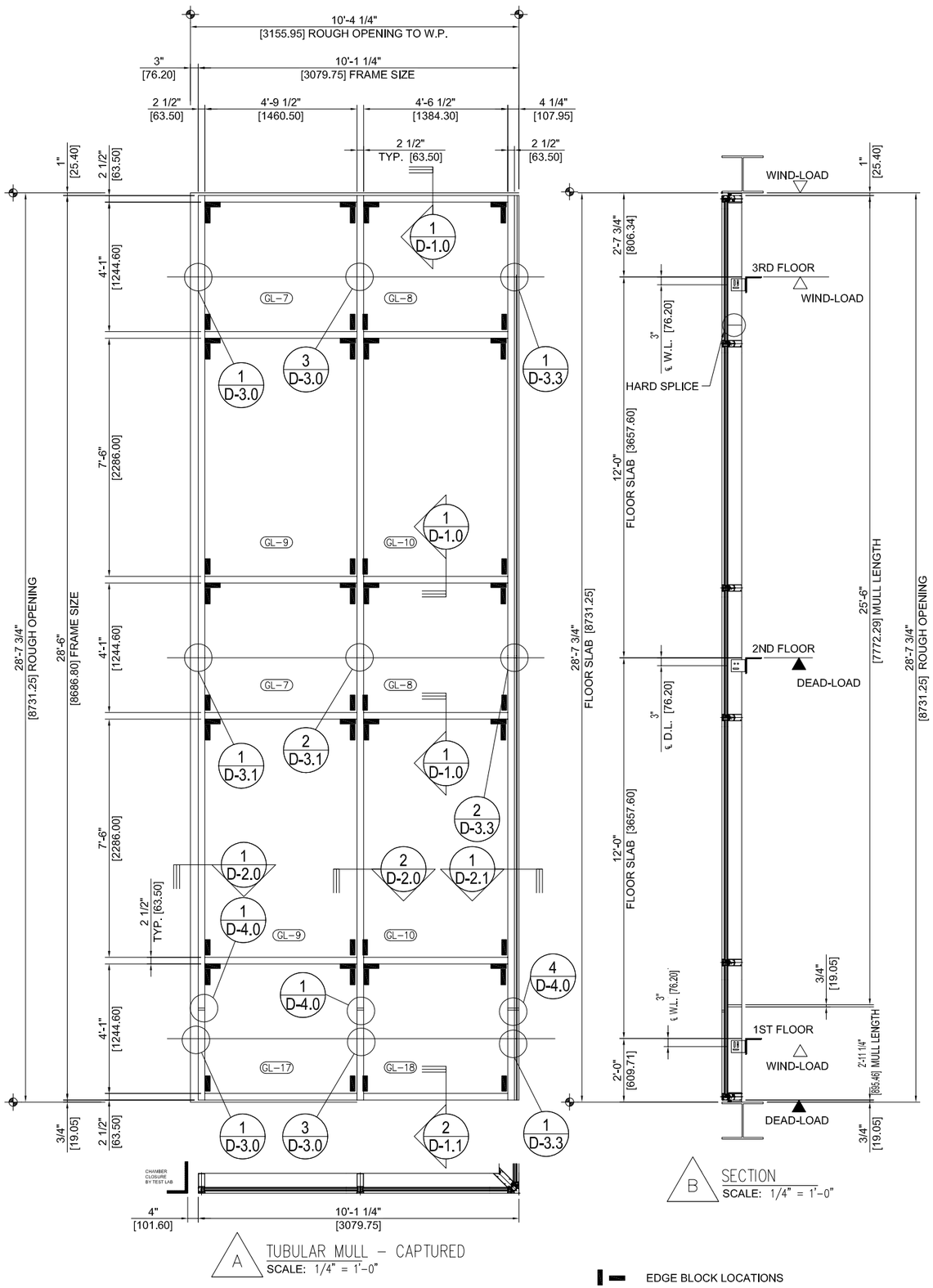
FX: 616.301.0008
WEB SITE: WWW.TUBELITEINC.COM

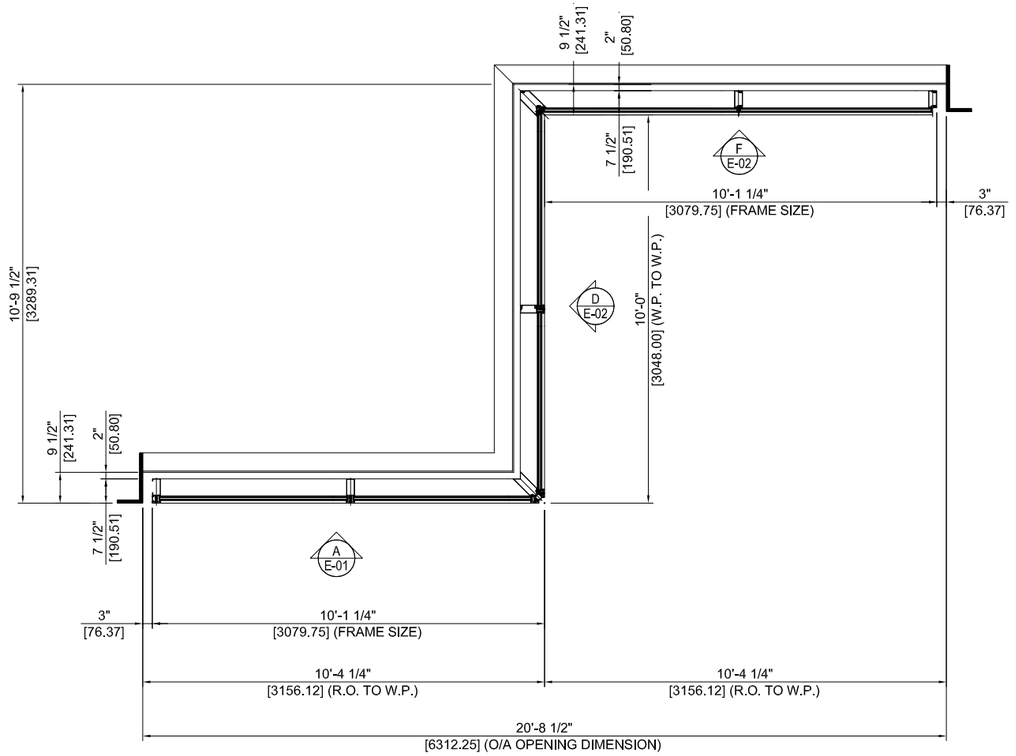
REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR TDI

DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: NOTES, ELEVATION
SHEET: C1



EDGE BLOCK LOCATIONS



C FLOOR PLAN
SCALE: 1/4" = 1'-0"

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REVISION: A
SHEET NAME: NOTES, ELEVATION
SHEET: E1.0

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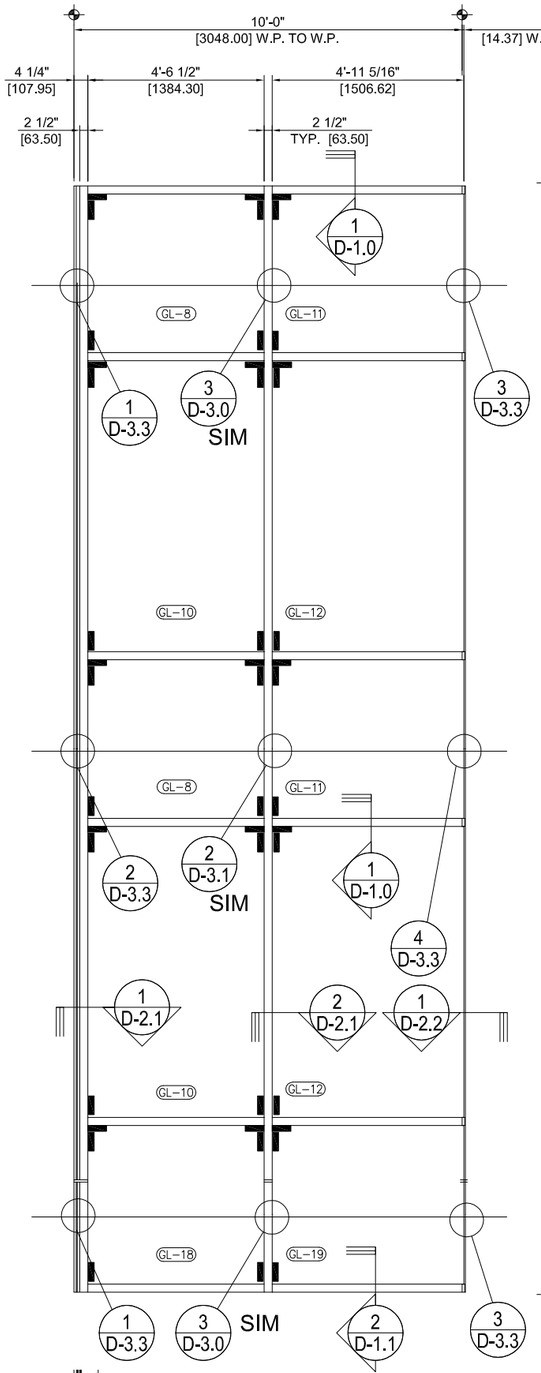
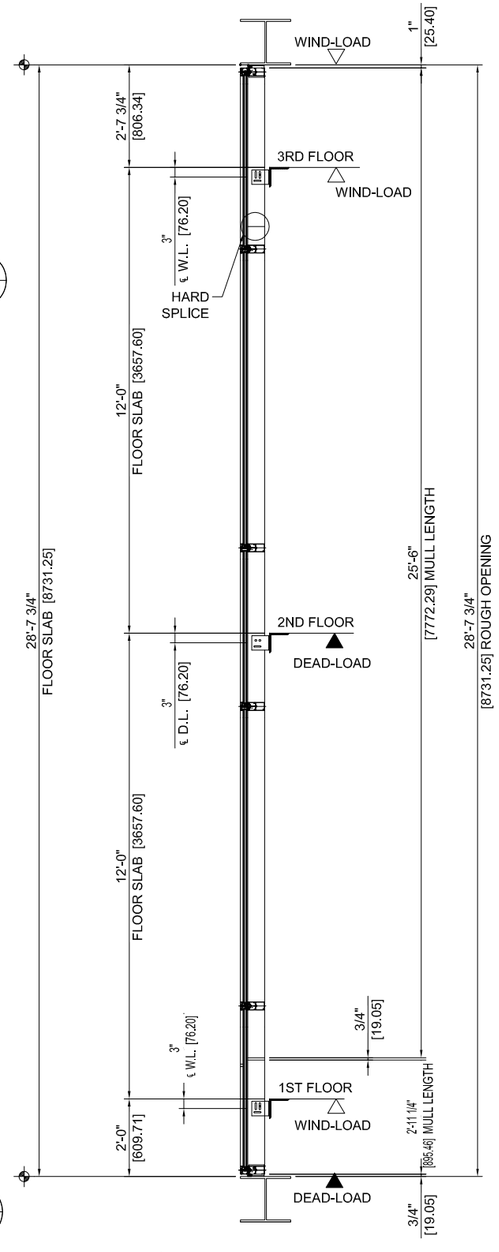
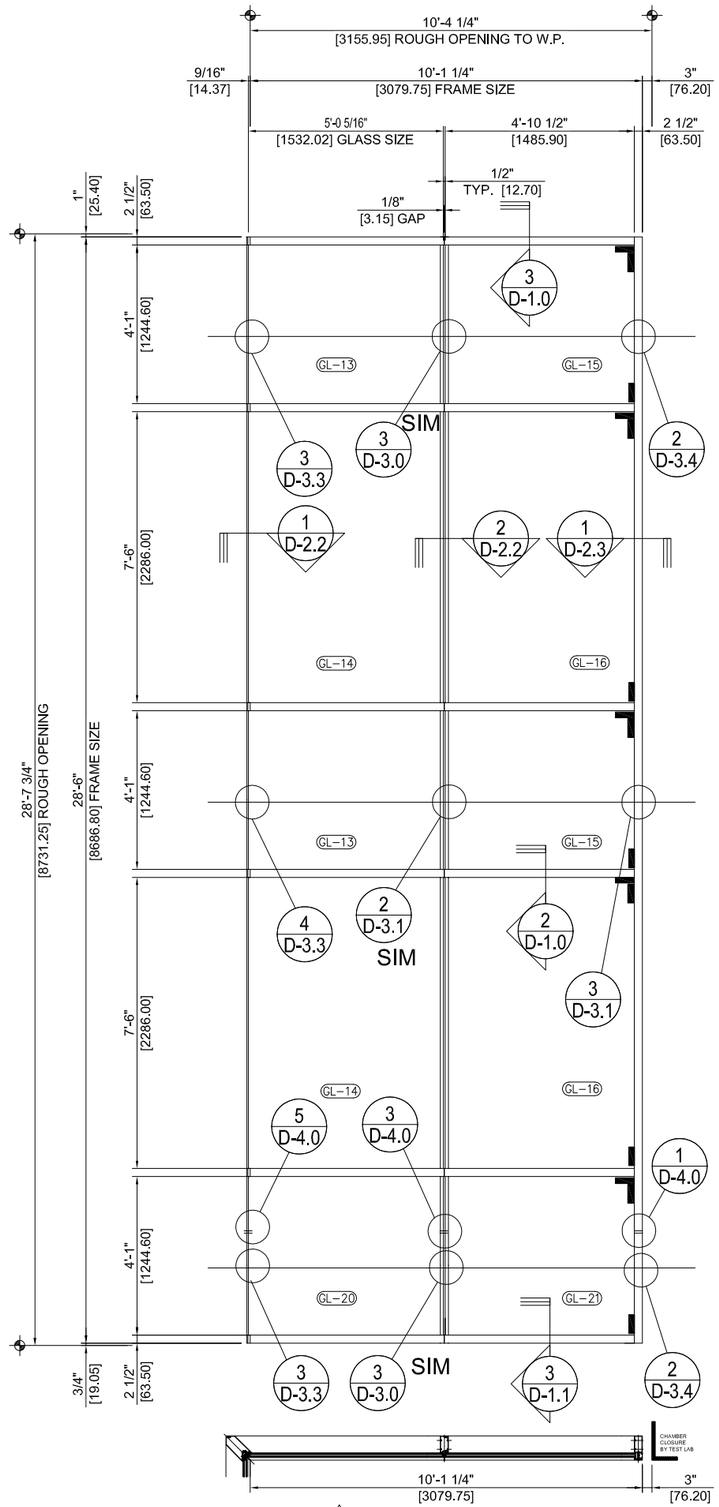


D SPLIT MULL – CAPTURED
SCALE: 1/4" = 1'-0"

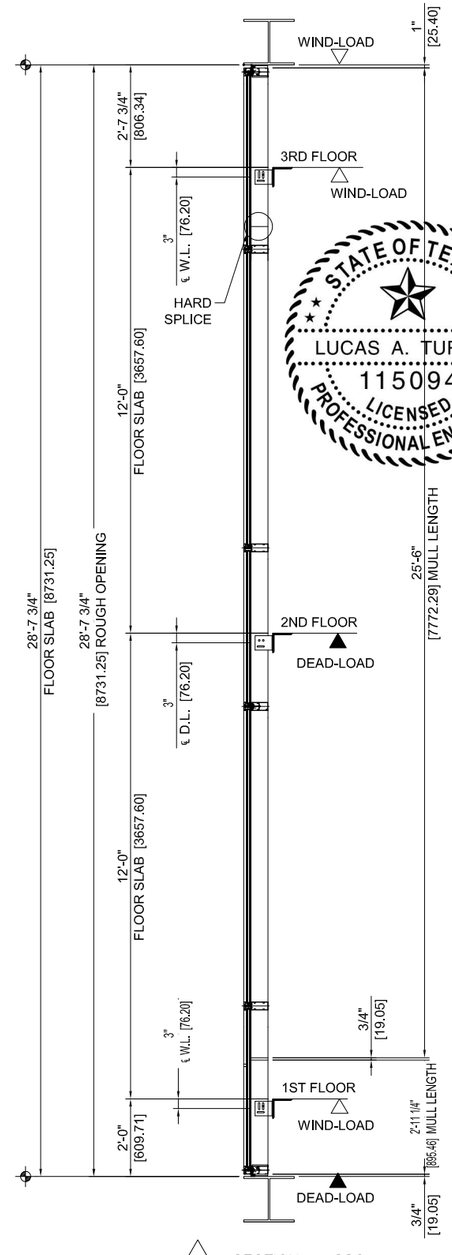


E SECTION
SCALE: 1/4" = 1'-0"

EDGE BLOCK LOCATIONS



F SPLIT MULL – SSG
SCALE: 1/4" = 1'-0"



G SECTION – SSG
SCALE: 1/4" = 1'-0"

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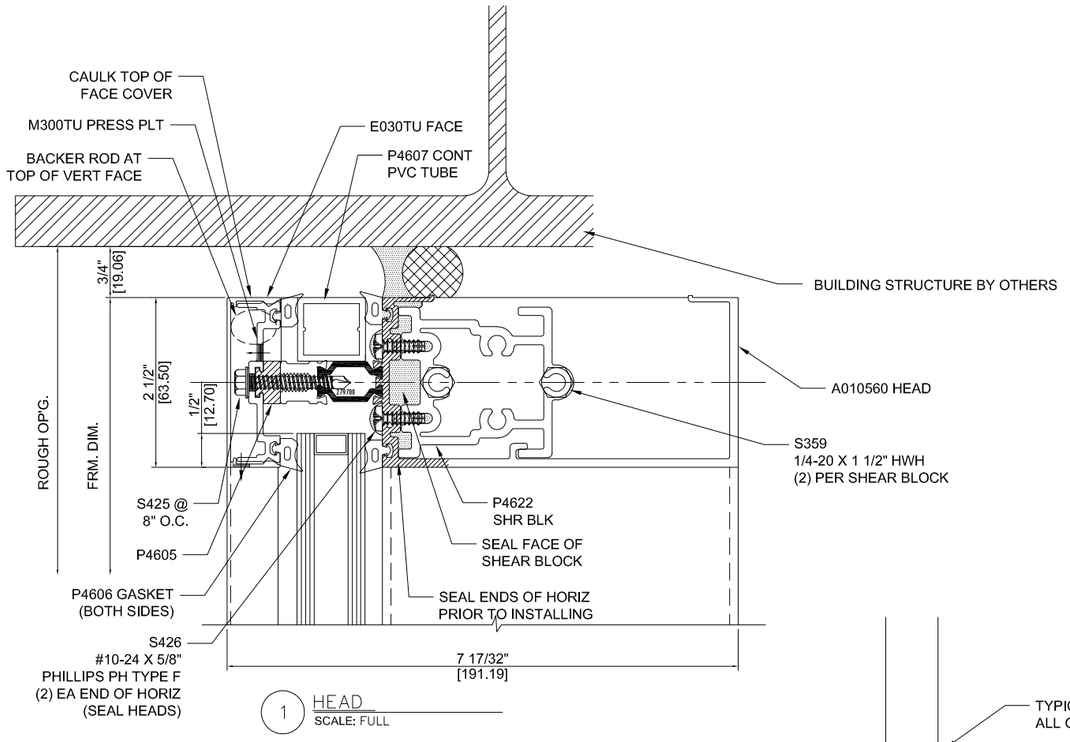
DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: NOTES, ELEVATION
SHEET: E2.0



1 HEAD
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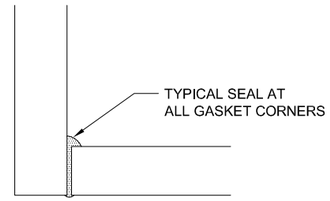

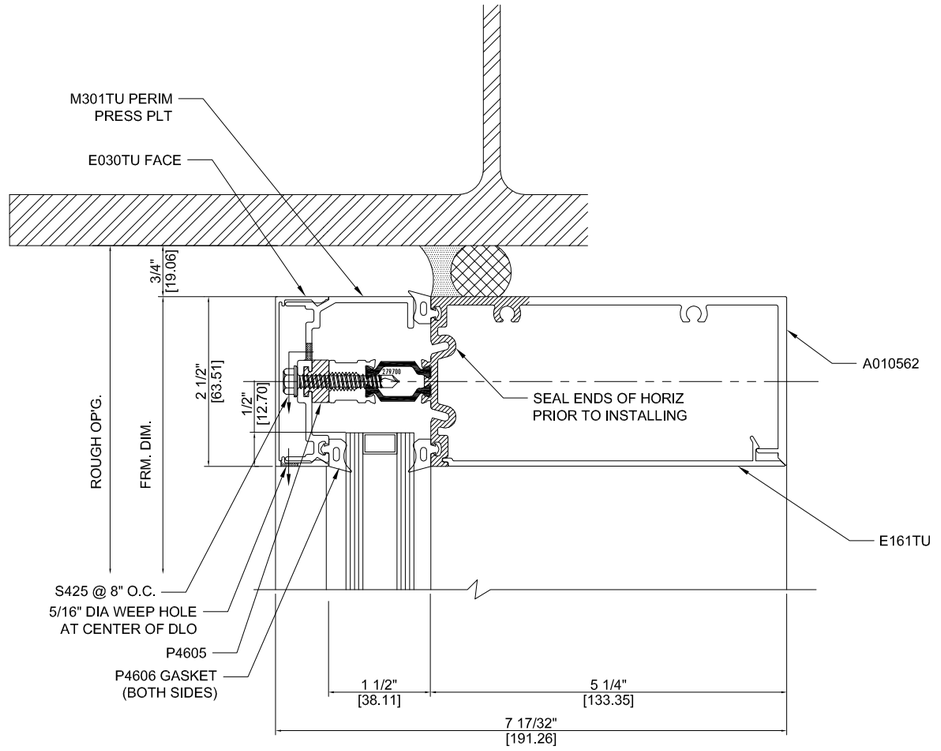

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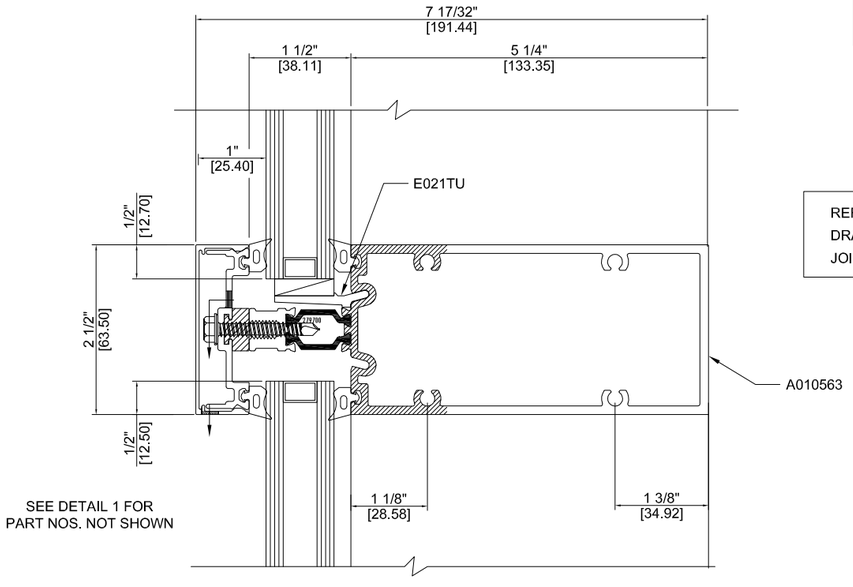

REF. D-4 SERIES DRAWINGS FOR JOINERY DETAILS

SEE DETAIL 1 FOR PART NOS. NOT SHOWN

2 INTERMEDIATE CAPTURED HORIZONTAL
SCALE: FULL

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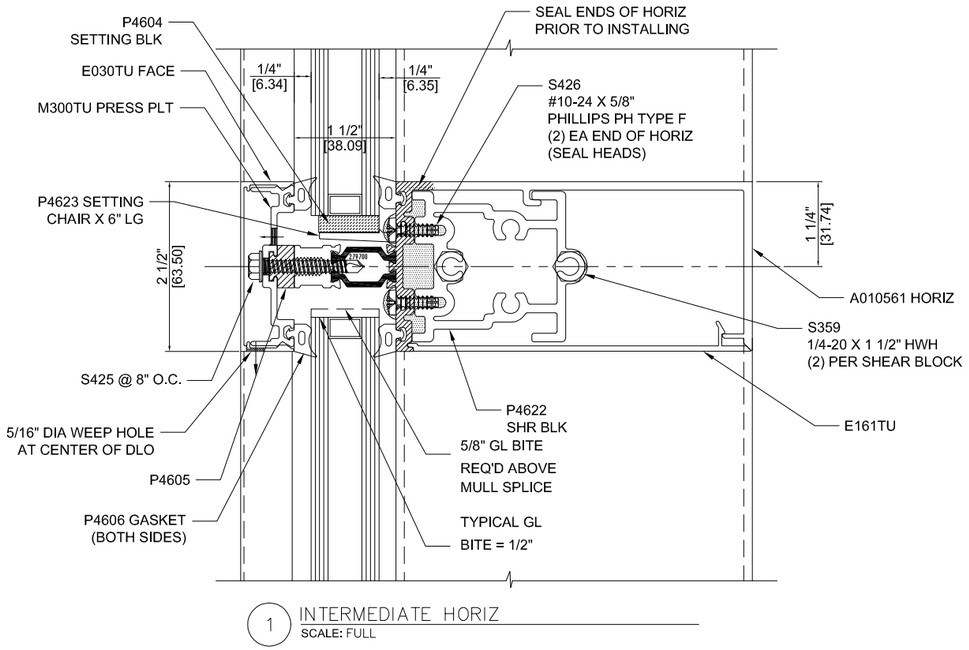
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: HORIZONTALS HEADS INTERMED. SPLINE
SHEET: D-1.0



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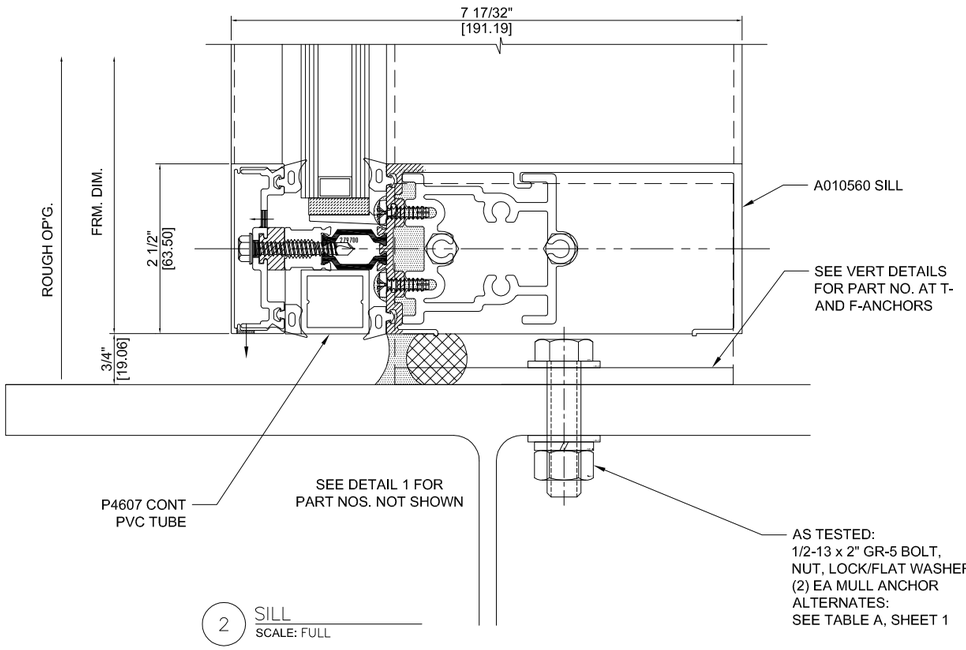

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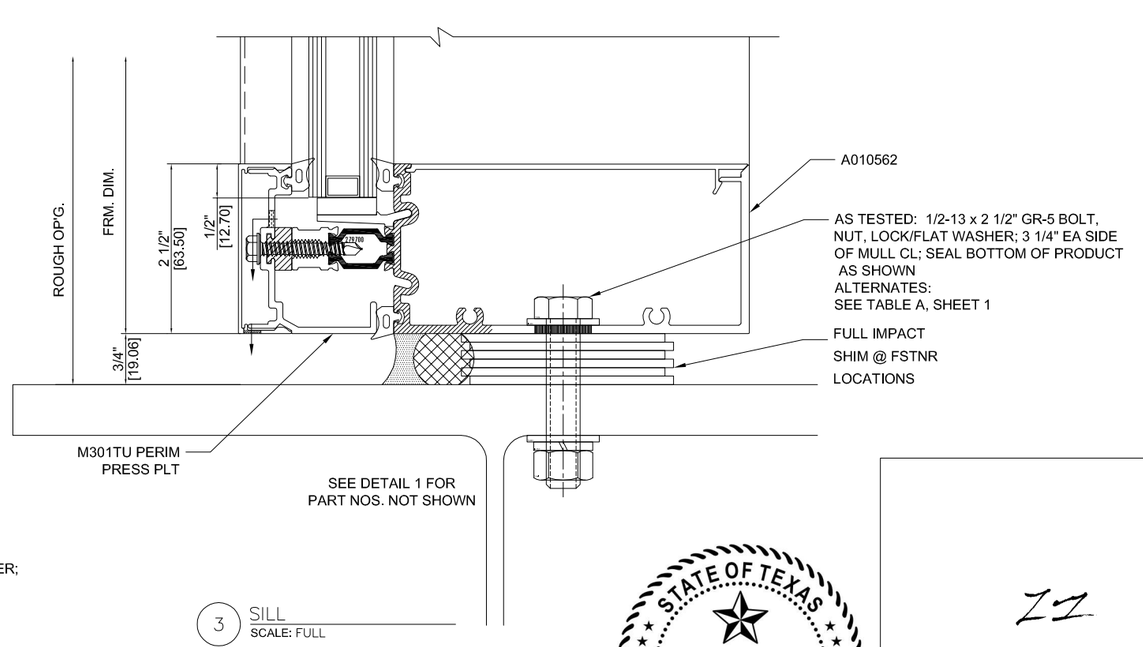

3 SILL
SCALE: FULL

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FINAL REVIEW:
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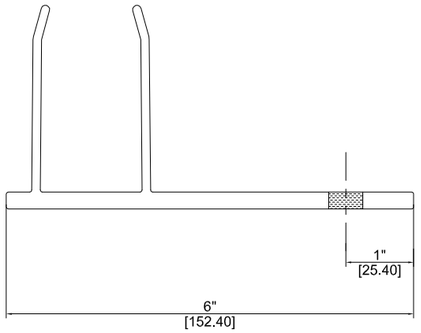
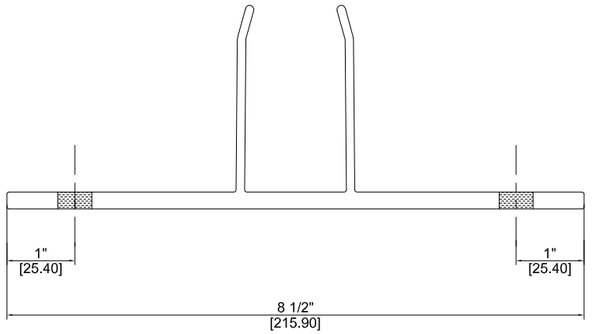
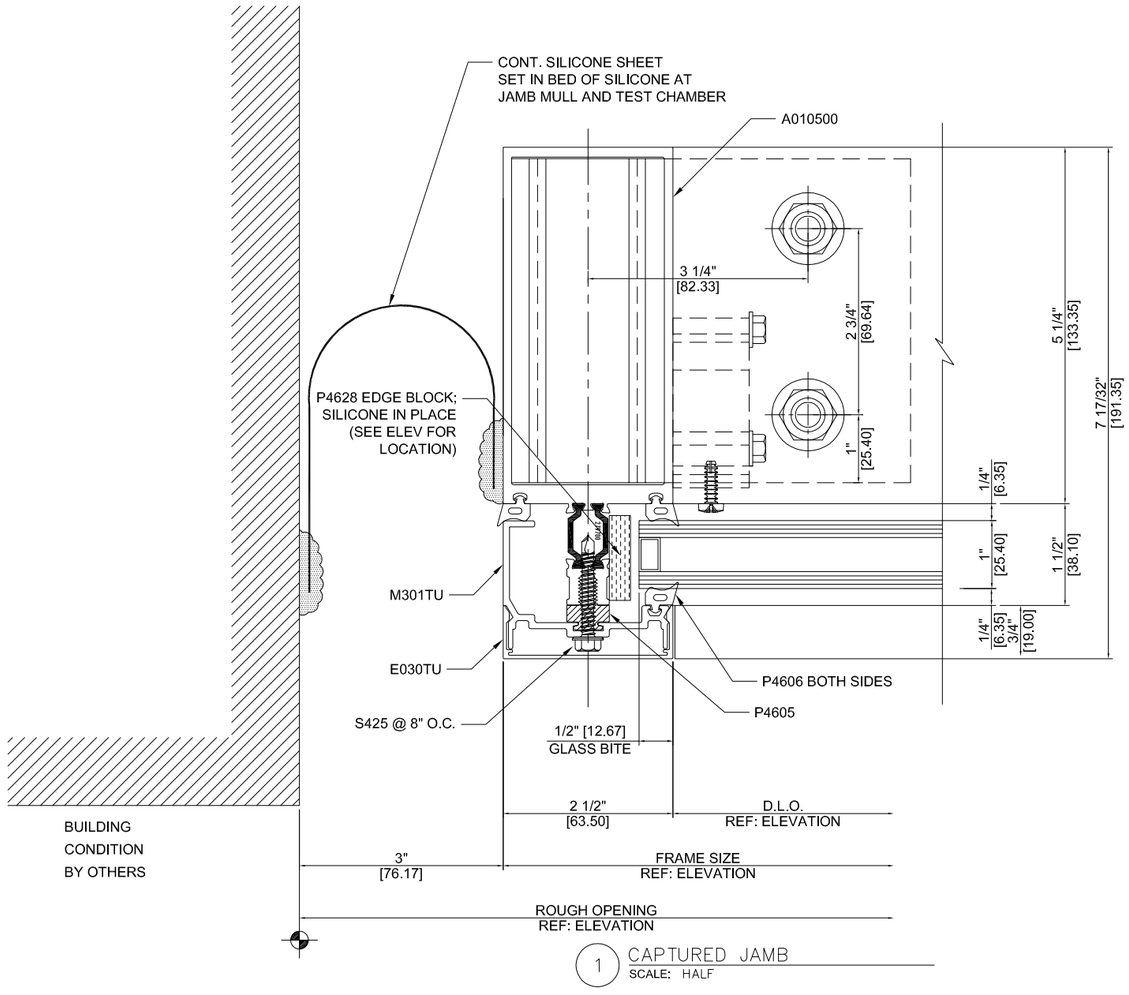
REVISION: A
SHEET NAME: HORIZONTALS INTERMED. SHEAR CLIP, SILLS
SHEET: D-1.1



P-4617 JAMB ANCHOR
(MADE FROM E4TB213)



P-4616 TYP MULL ANCHOR
(MADE FROM E4TB214)



1 CAPTURED JAMB
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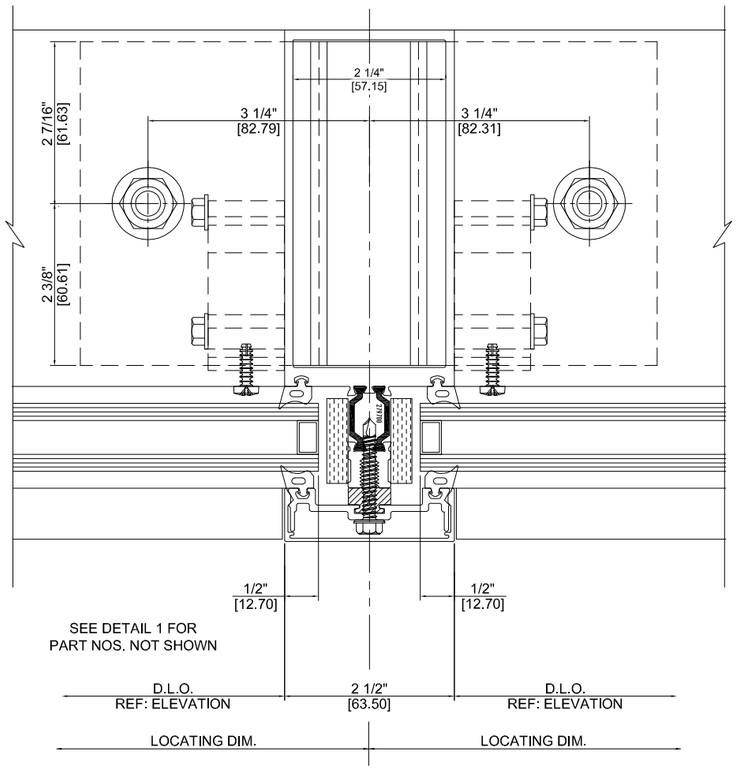

2 CAPTURED MULLION
SCALE: HALF

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LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

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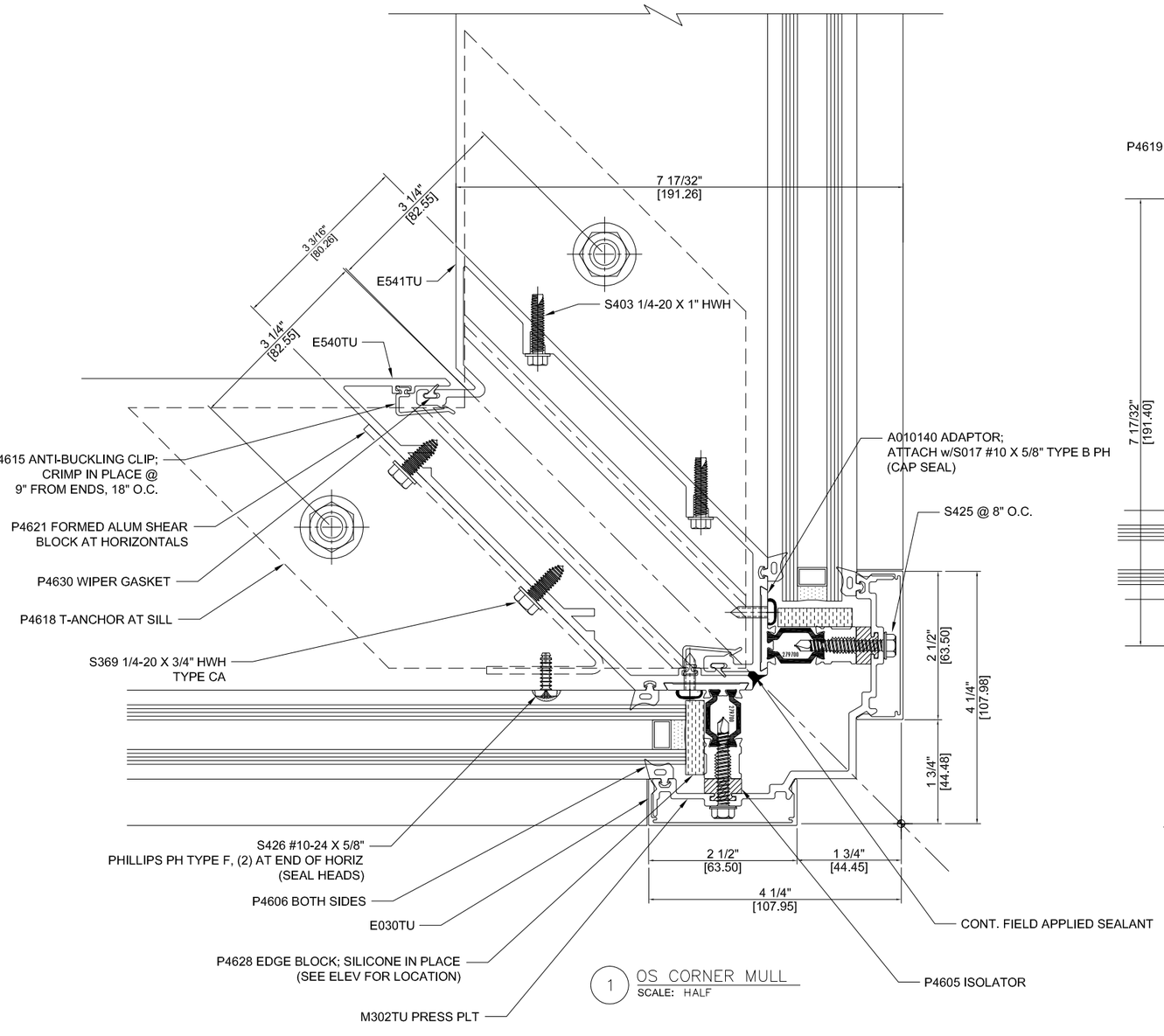
TX PE # 115094
PH. 941-380-1574
1239 JABARA AVE.
NORTH PORT, FL 34288

DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: VERTICALS CAP JAMB CAP MULL
SHEET: D-2.0



1 OS CORNER MULL
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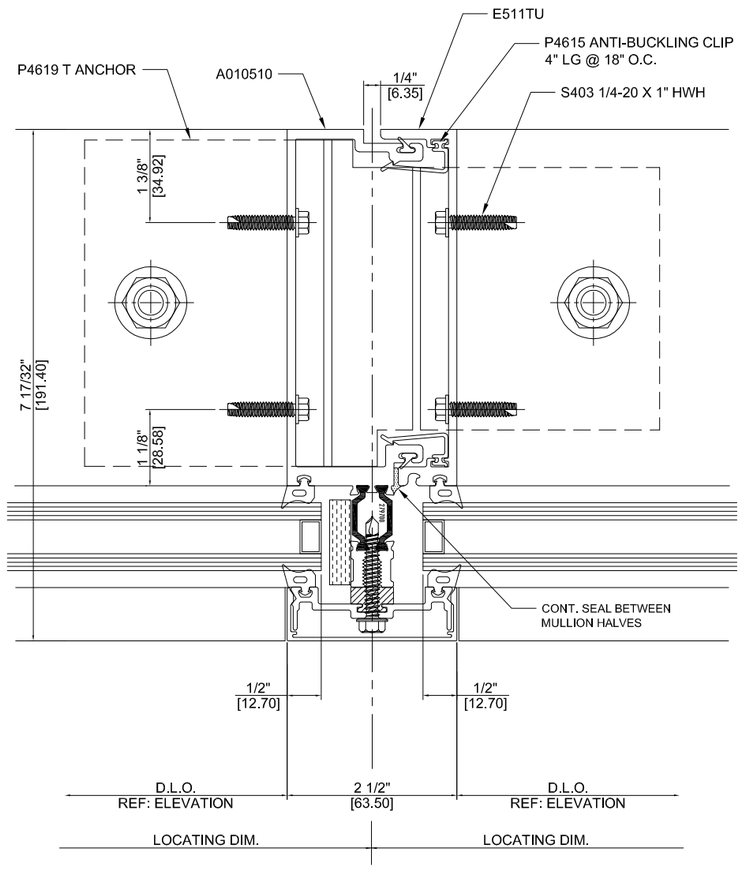

SEE DETAIL 1 FOR
PART NOS. NOT SHOWN

2 CAPTURED SPLIT MULLION
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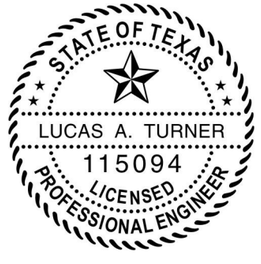

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DRAWN:	
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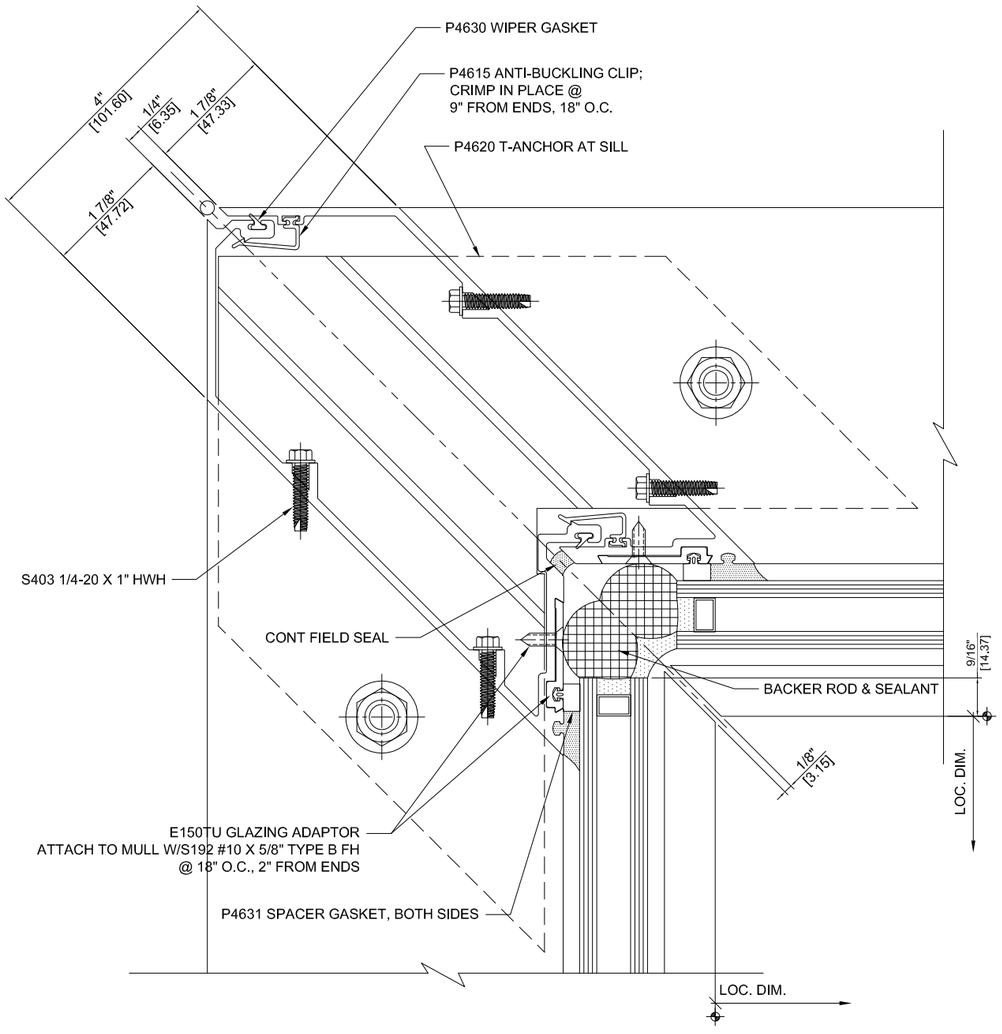
SHEET:	D-2.1



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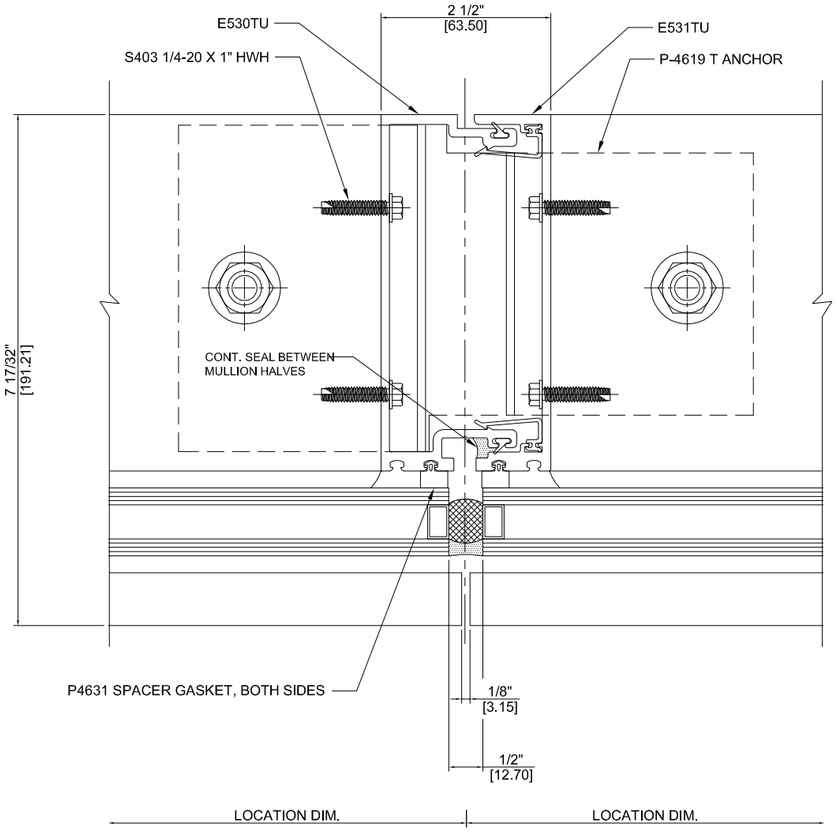

SEE DETAIL 1 FOR
PART NOS. NOT SHOWN

2 SSG SPLIT MULLION
SCALE: FULL

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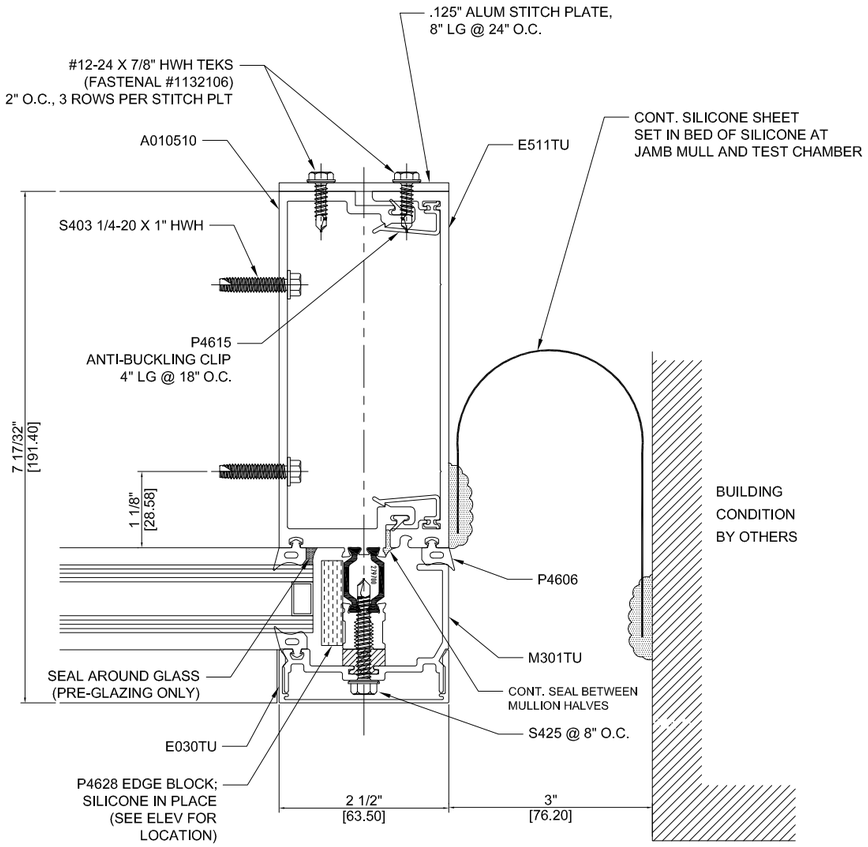
REVISION: A
SHEET NAME: VERTICALS IS CORNER SSG SPLIT
SHEET: D-2.2



1 JAMB
SCALE: FULL

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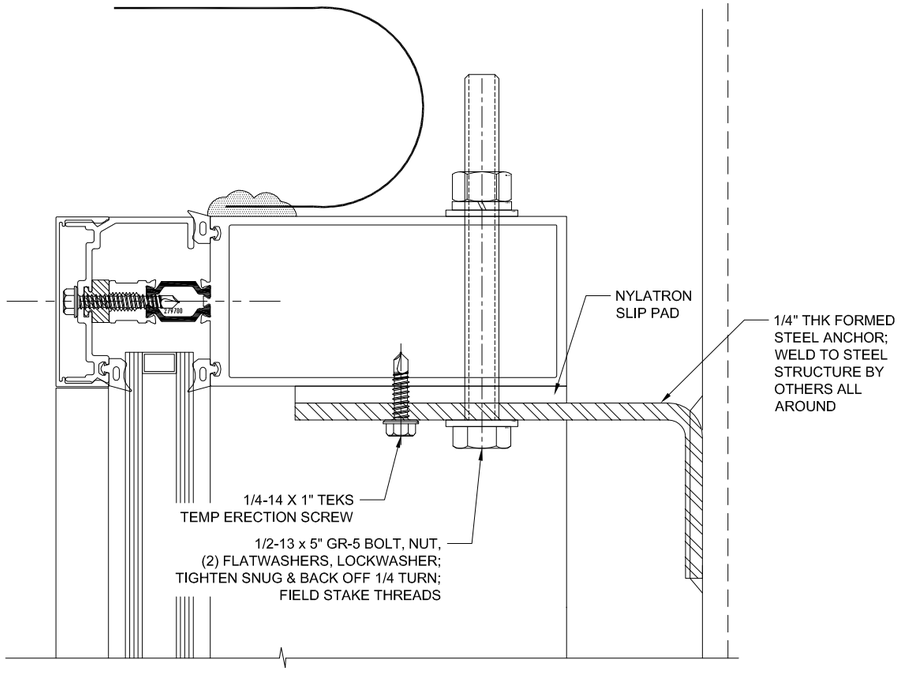
WALKER, MICHIGAN 49544
PH: 800.866.2227
FX: 616.301.0008
WEB SITE: WWW.TUBELITEINC.COM

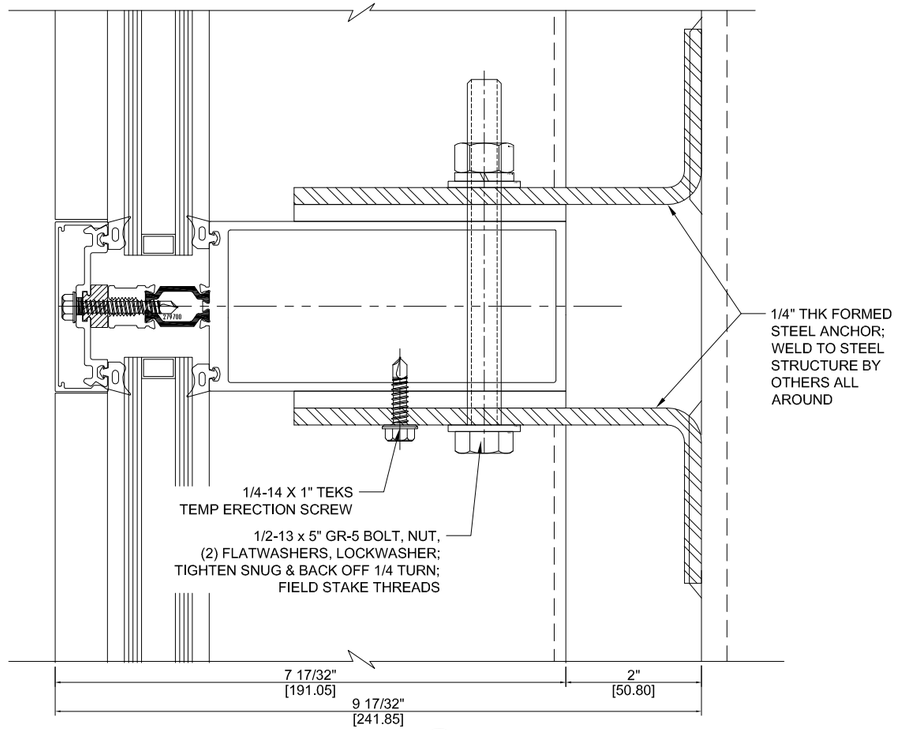
REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR TDI

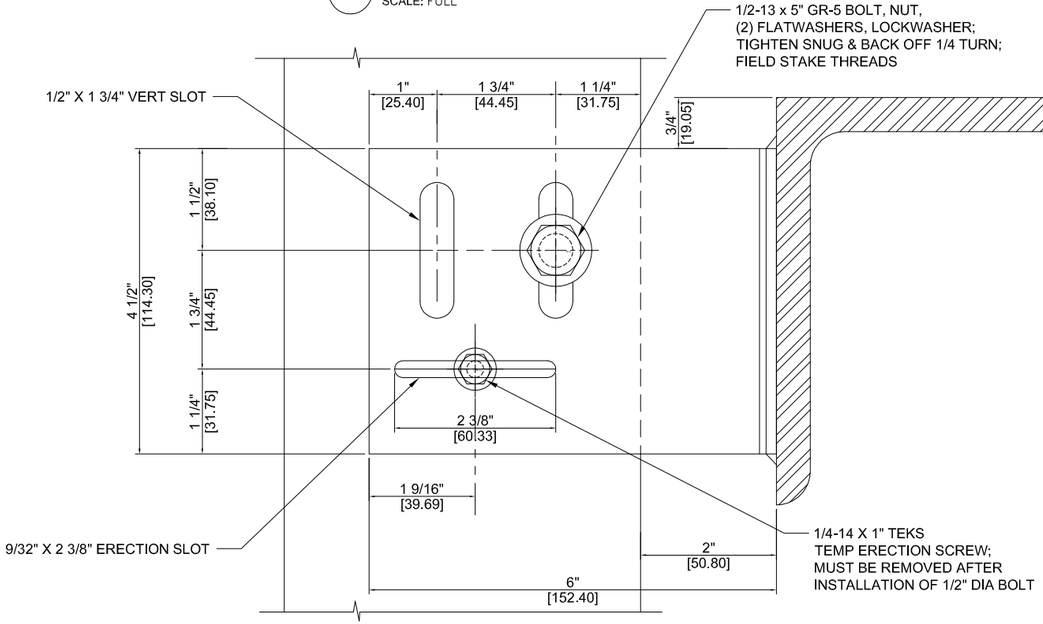
DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: VERTICALS JAMB
SHEET: D-2.3



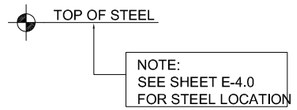
1 ANCHOR PLAN @ JAMB
SCALE: FULL



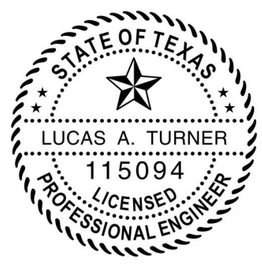
3 ANCHOR PLAN @ TYP. MULL
SCALE: FULL



2 EXPANSION ANCHOR SECTION
SCALE: FULL



NOTE:
SEE SHEET E-4.0
FOR STEEL LOCATION



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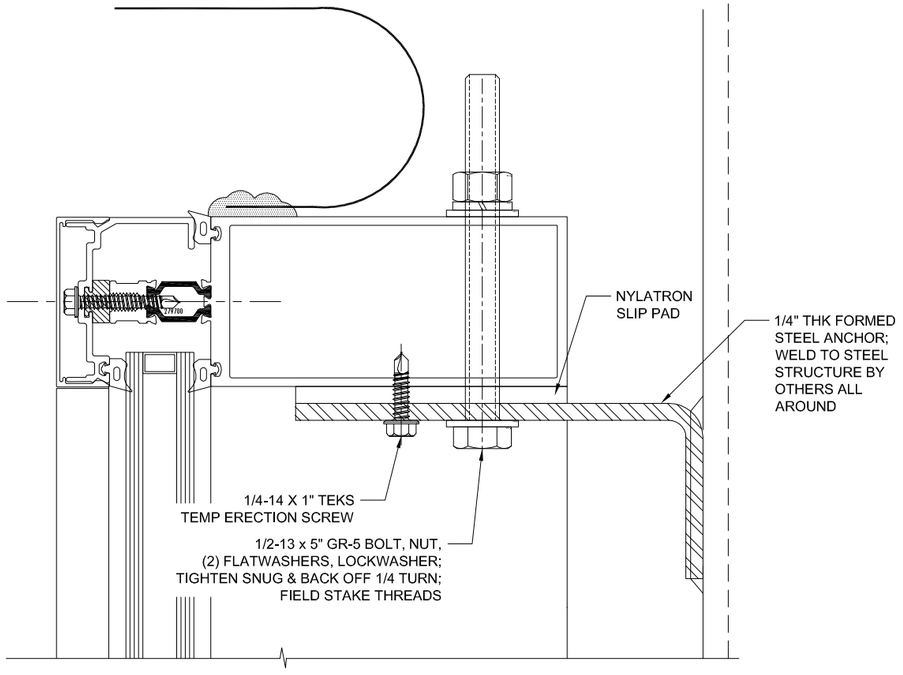
LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

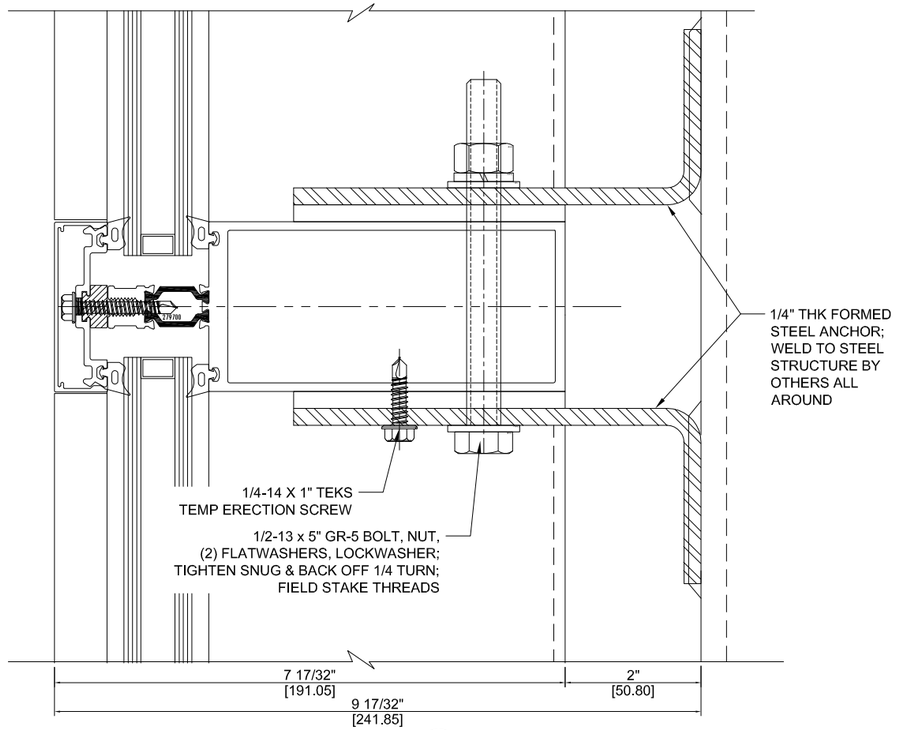
REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR TDI

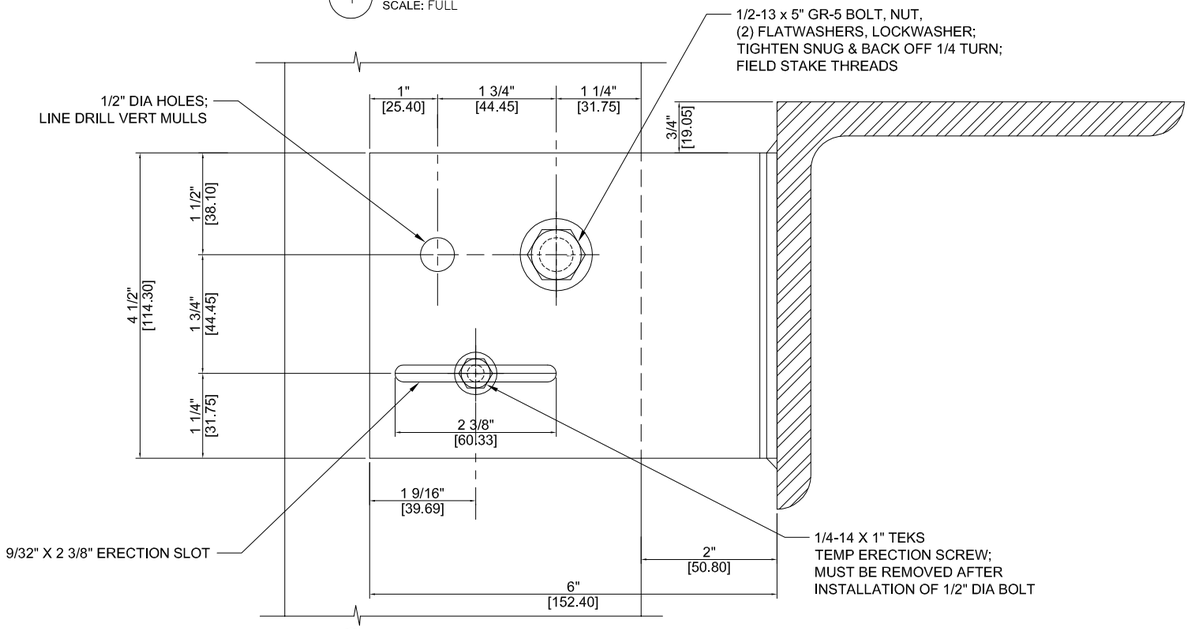
DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: ANCHORS WIND LOAD
SHEET: D-3.0



1 ANCHOR PLAN @ JAMB
SCALE: FULL



3 ANCHOR PLAN @ TYP. MULL
SCALE: FULL



2 FIXED ANCHOR SECTION
SCALE: FULL

TOP OF STEEL

NOTE:
SEE SHEET E-4.0
FOR STEEL LOCATION

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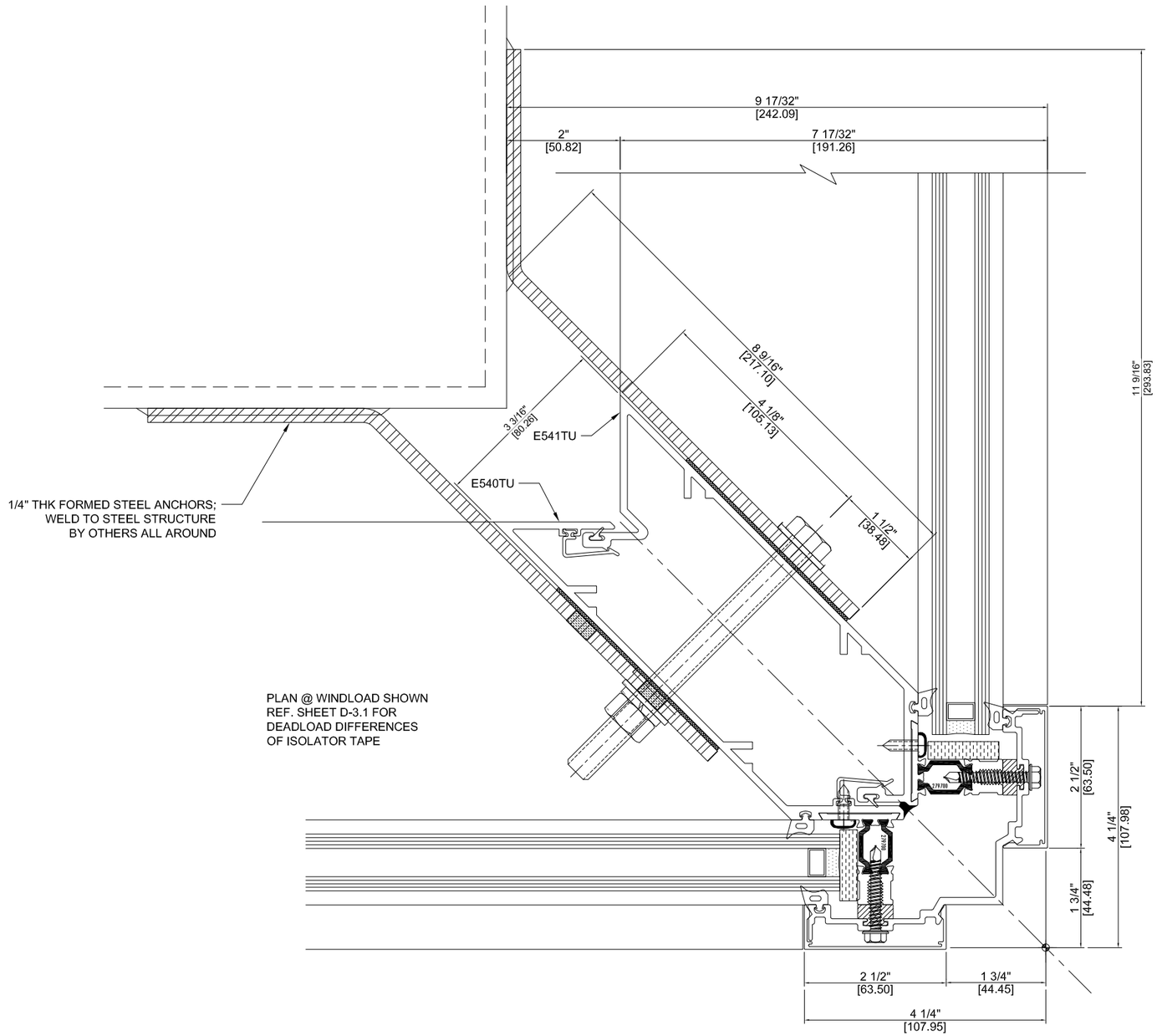
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: ANCHORS DEAD LOAD
SHEET: D-3.1



PLAN @ WINDLOAD SHOWN
REF. SHEET D-3.1 FOR
DEADLOAD DIFFERENCES
OF ISOLATOR TAPE

1 OS CORNER ANCHOR PLAN
SCALE: FULL

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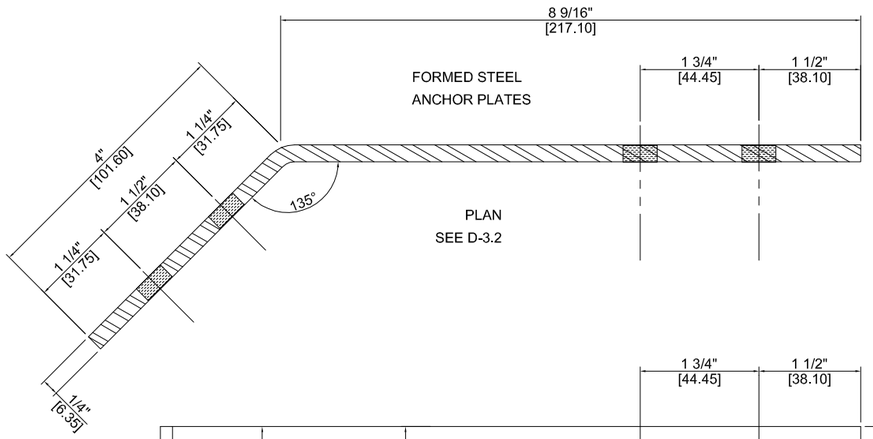
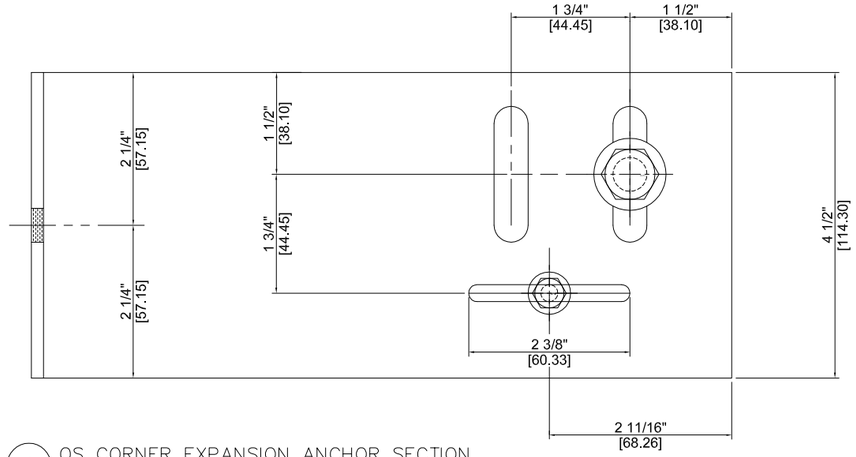
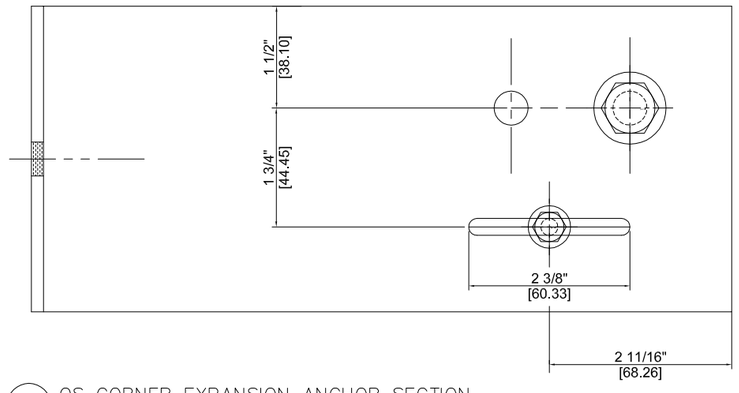
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: ANCHORS OS CORNER PLAN
SHEET: D-3.2

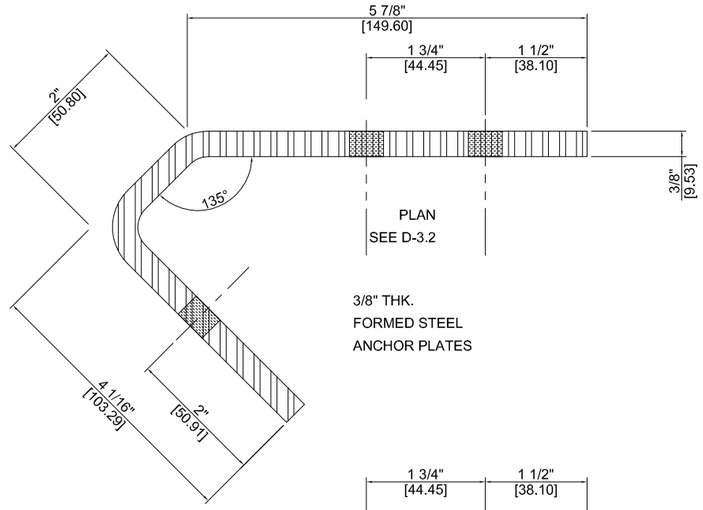


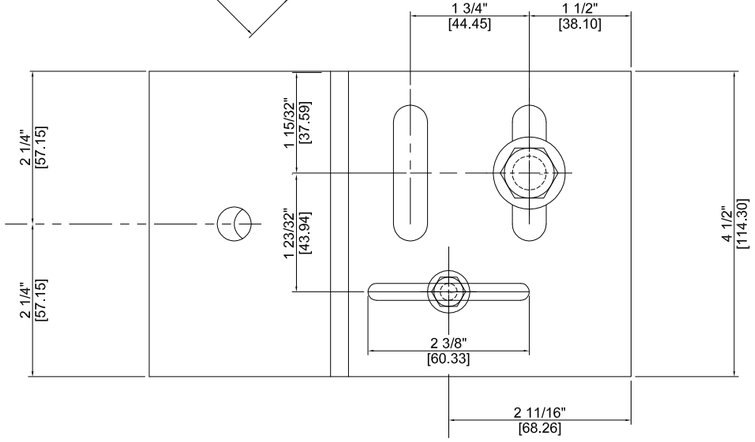


1 OS CORNER EXPANSION ANCHOR SECTION
SCALE: FULL

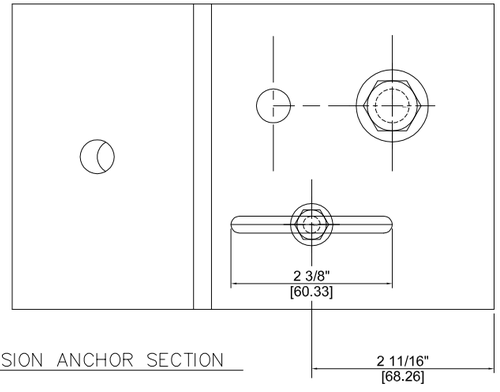


2 OS CORNER EXPANSION ANCHOR SECTION
SCALE: FULL





3 IS CORNER EXPANSION ANCHOR SECTION
SCALE: FULL



4 IS CORNER EXPANSION ANCHOR SECTION
SCALE: FULL

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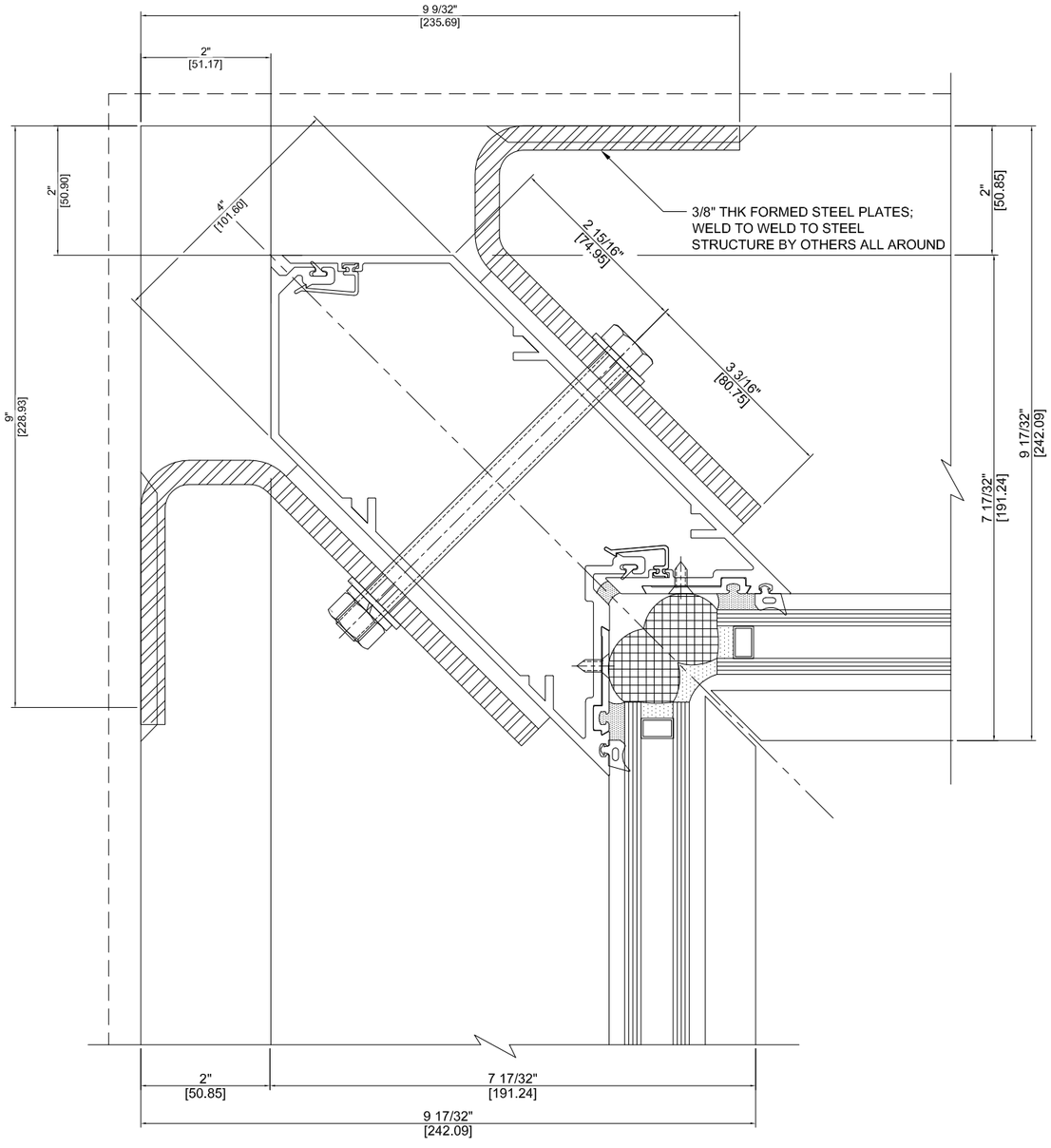
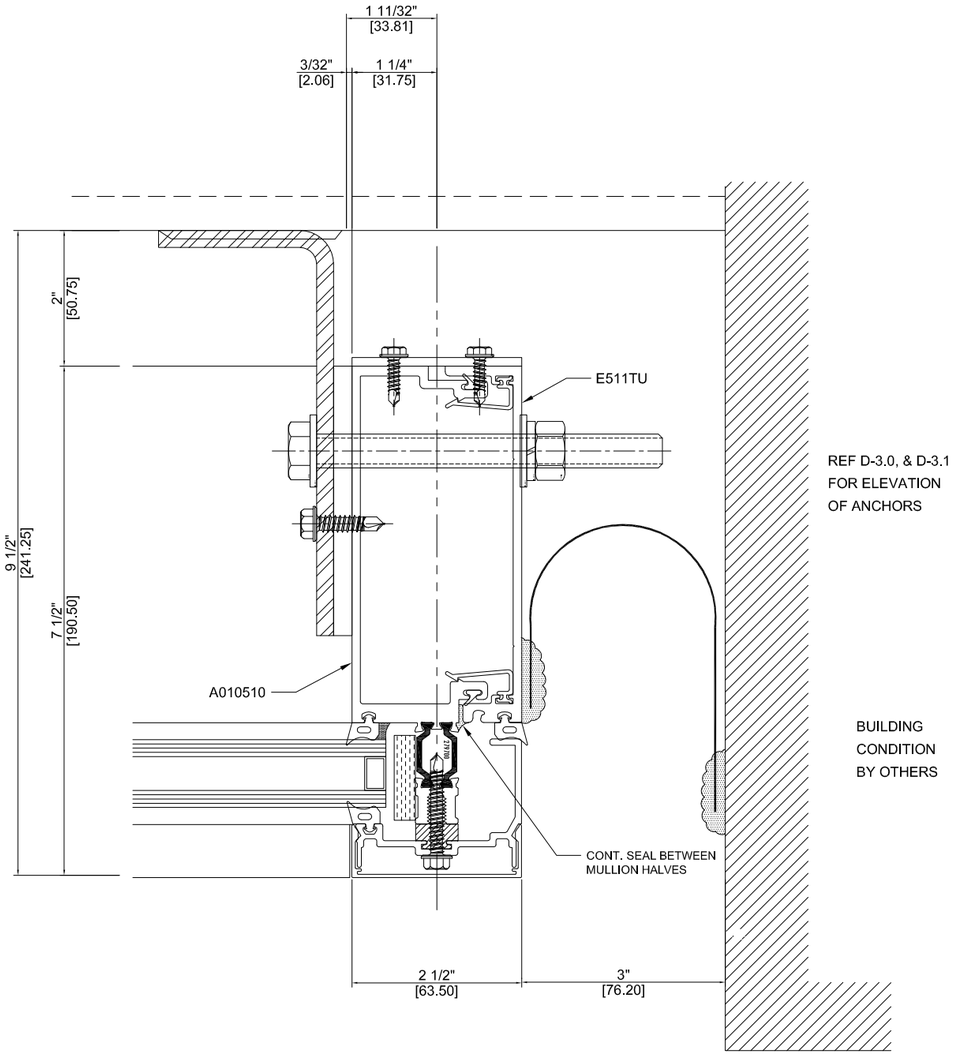
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: ANCHORS CORNER EXPANSION
SHEET: D-3.3



1 IS CORNER ANCHOR PLAN
SCALE: FULL



2 PLAN @ JAMB ANCHOR
SCALE: FULL

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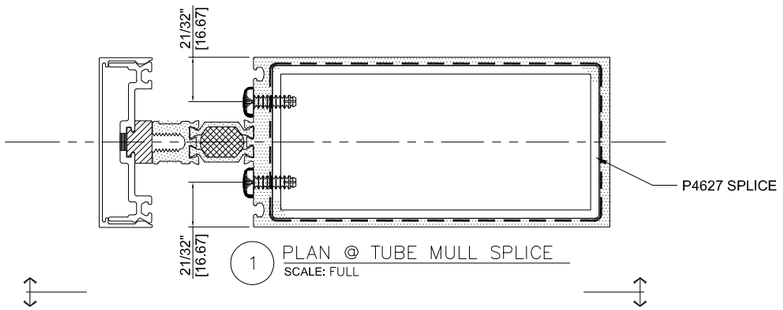
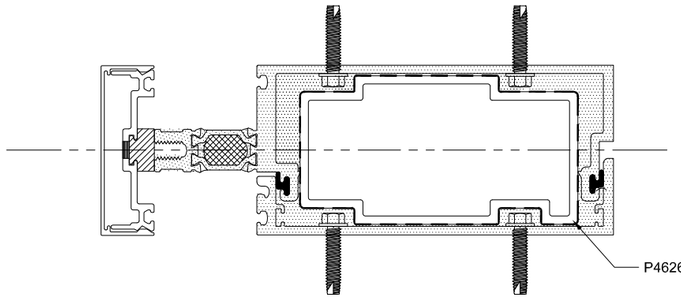
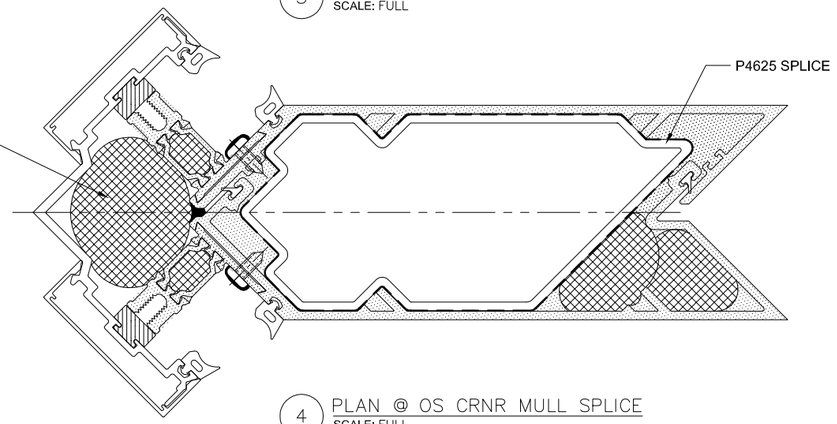
DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: ANCHORS IS CORNER & JAMB PLANS
SHEET: D-3.4



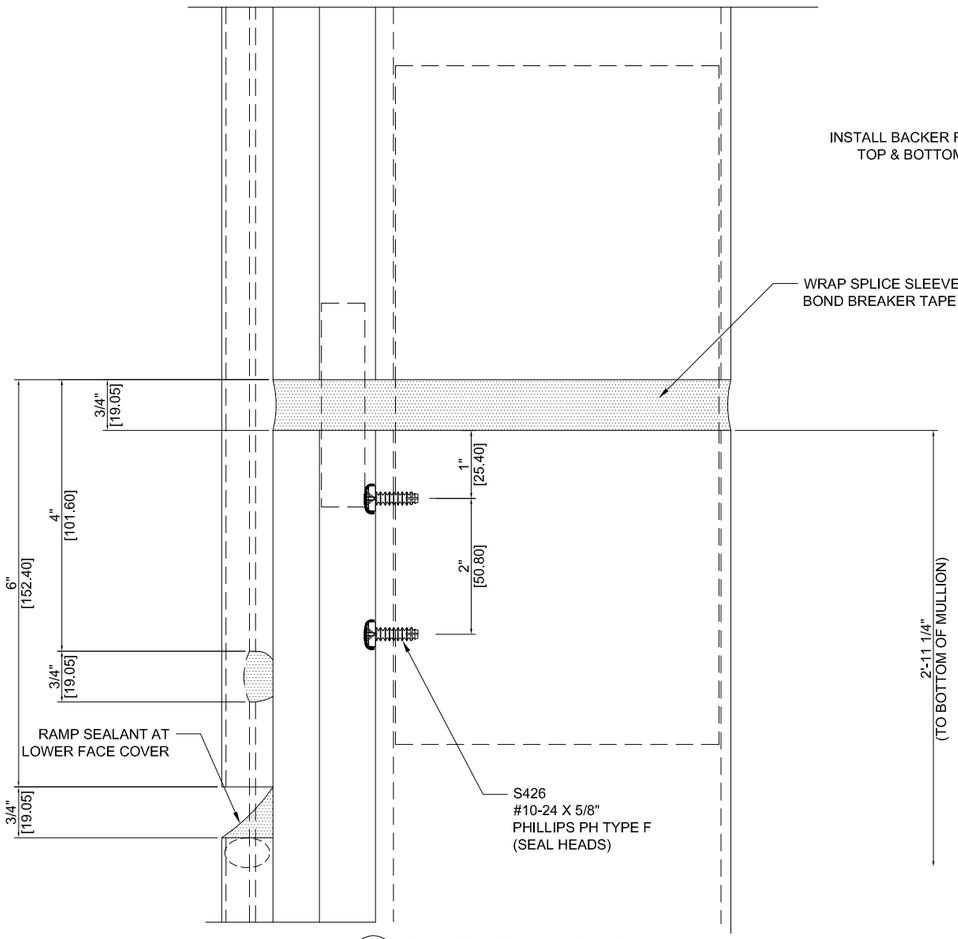
1 PLAN @ TUBE MULL SPLICE
SCALE: FULL



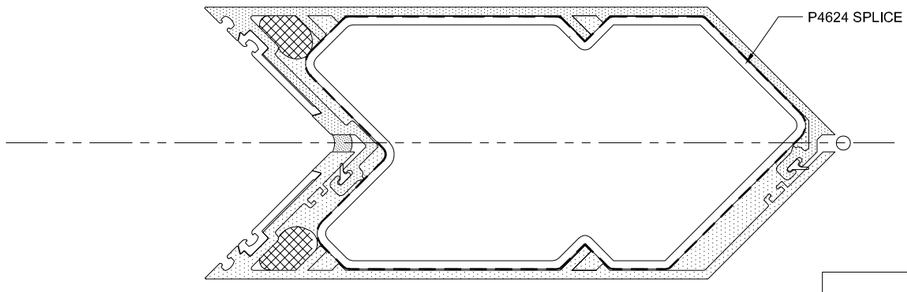
3 PLAN @ SPLIT MULL SPLICE
SCALE: FULL



4 PLAN @ OS CRNR MULL SPLICE
SCALE: FULL



2 SECTION @ MULL SPLICE
SCALE: FULL



5 PLAN @ IS CRNR MULL SPLICE
SCALE: FULL

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WEB SITE: WWW.TUBELITEINC.COM

REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR TDI

DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: JOINERY SPLICES
SHEET: D-4.0

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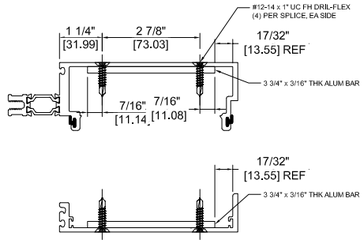
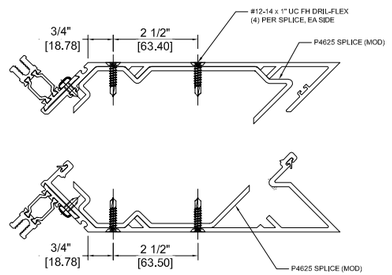
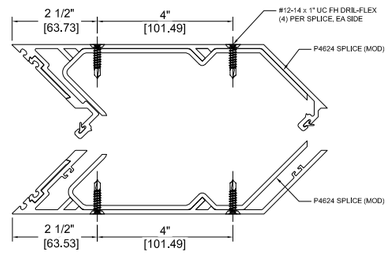
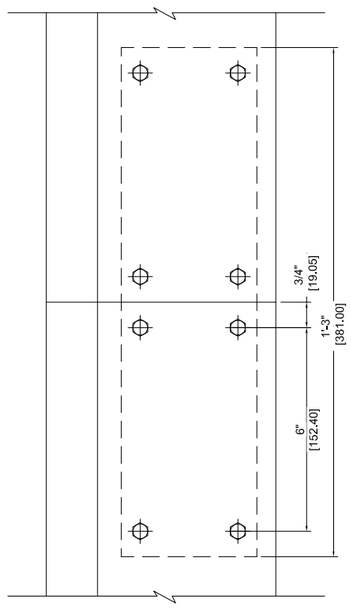
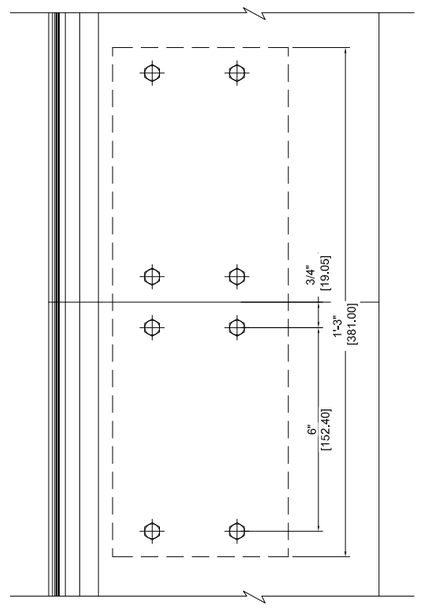
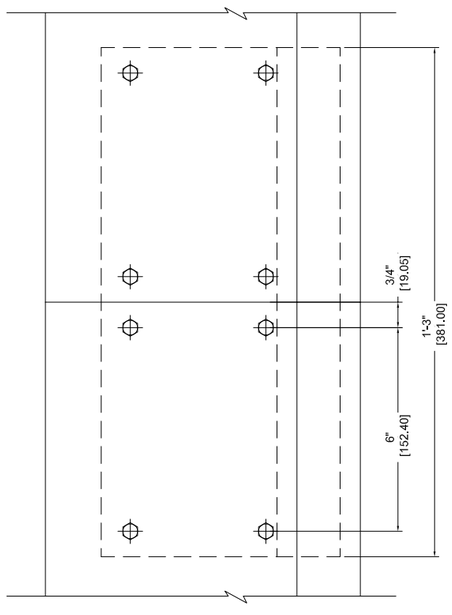


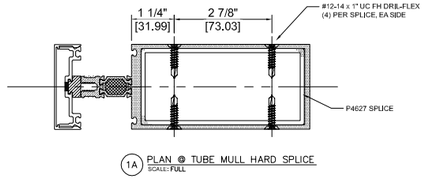




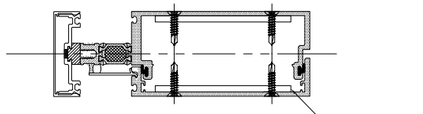




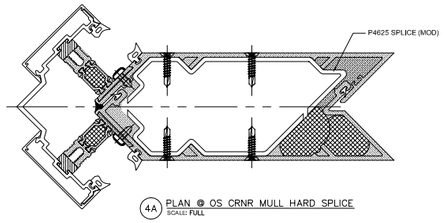




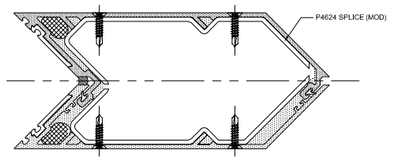
1A PLAN @ TUBE MULL HARD SPLICE
SCALE: FULL



3A PLAN @ SPLIT MULL HARD SPLICE
SCALE: FULL



4A PLAN @ OS CRNR MULL HARD SPLICE
SCALE: FULL



5A PLAN @ IS CRNR MULL HARD SPLICE
SCALE: FULL

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DATE: 02.18.16
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DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: JOINERY HARD SPLICES
SHEET: D-4.01

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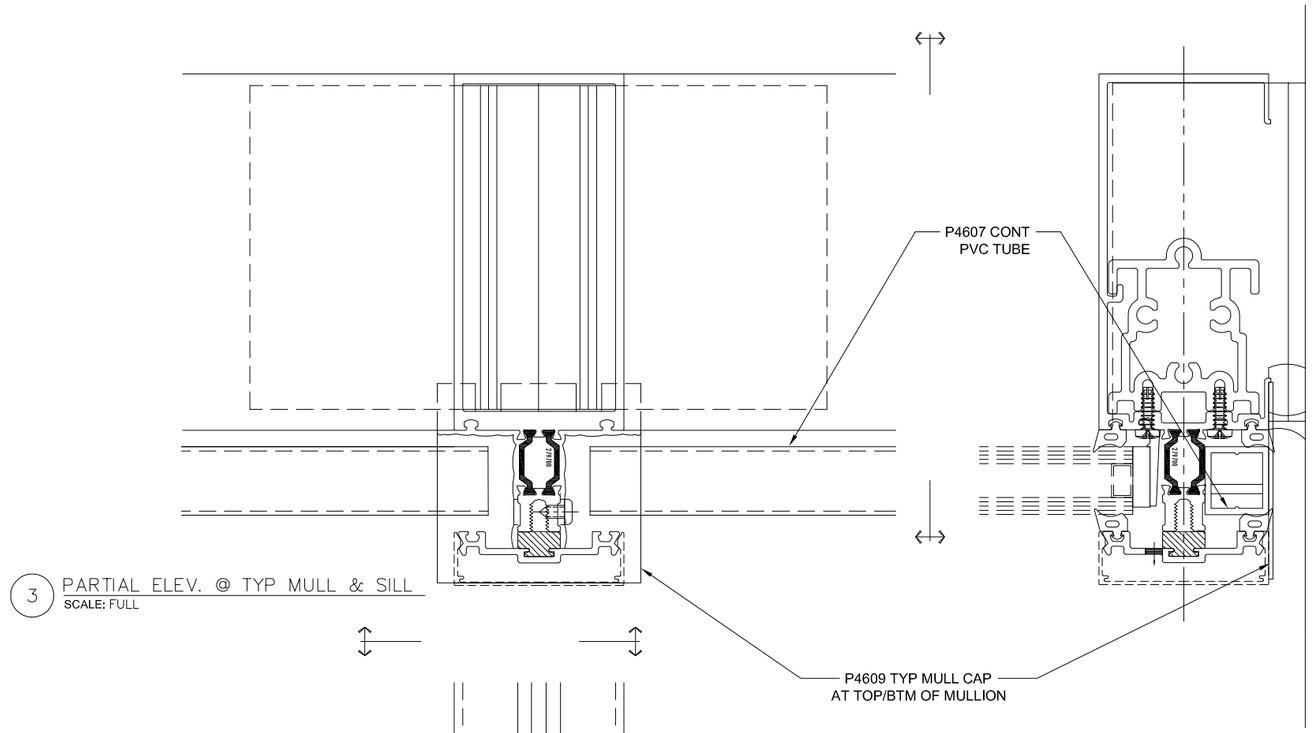
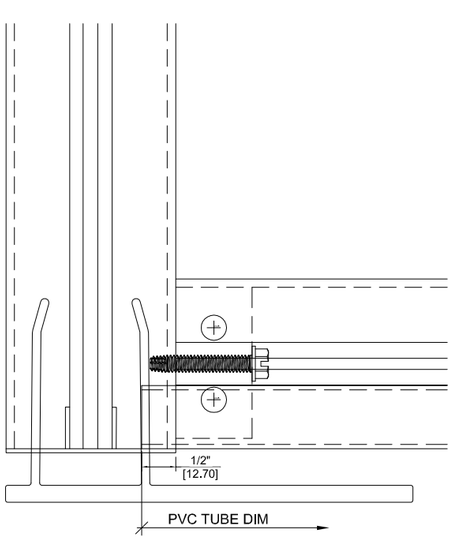
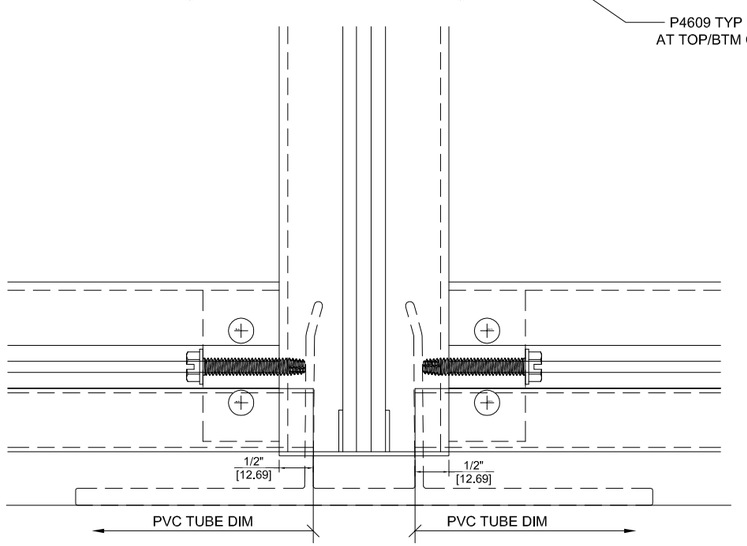


3 PARTIAL ELEV. @ TYP MULL & SILL
SCALE: FULL



1 PARTIAL ELEV. OF JAMB @ SILL
SCALE: FULL



2 PARTIAL ELEV. @ TYP MULL & SILL
SCALE: FULL

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WALKER, MICHIGAN 49544
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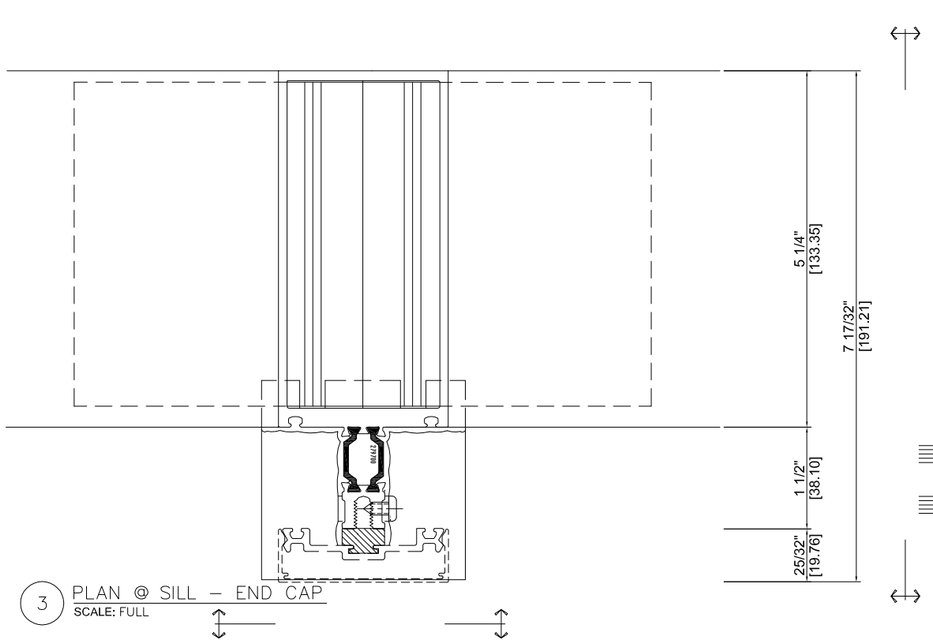
FX: 616.301.0008
WEB SITE: WWW.TUBELITEINC.COM

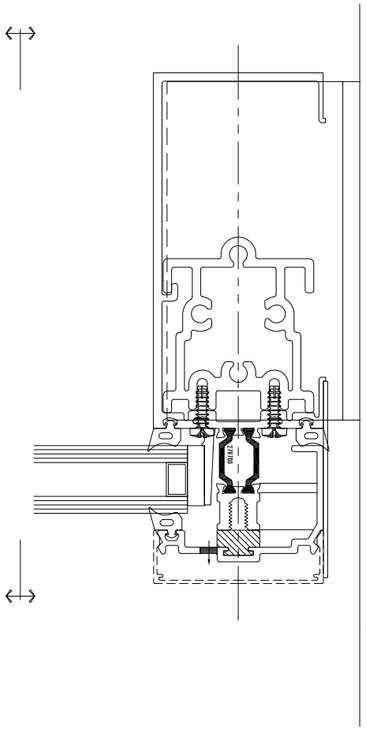
REVISION HISTORY:

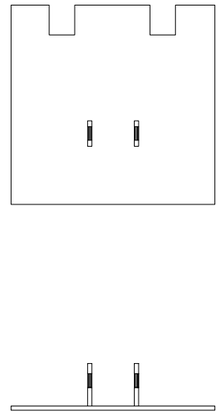
REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR TDI

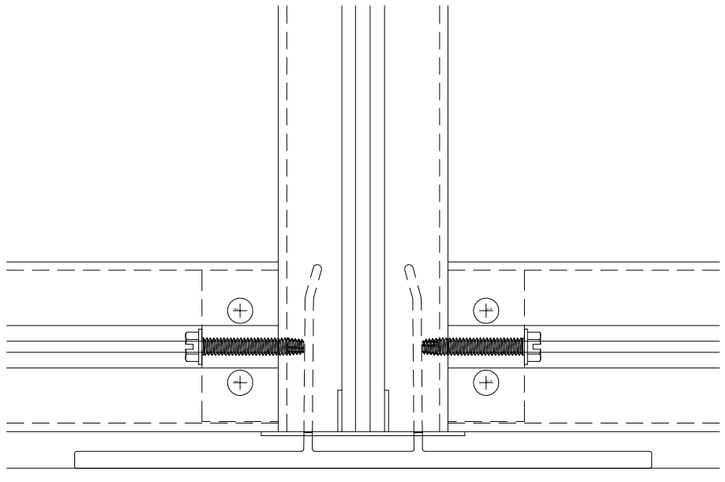
DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: JOINERY AT SILL
SHEET: D-4.1



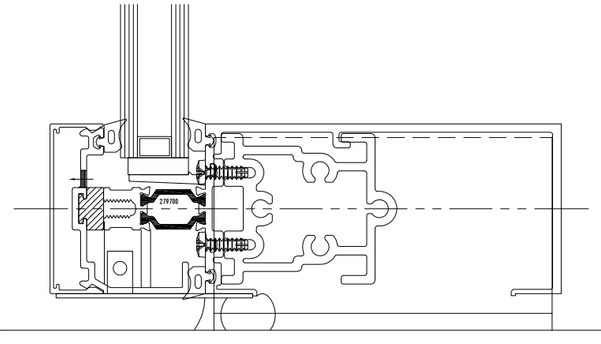
3 PLAN @ SILL – END CAP
SCALE: FULL







1 PARTIAL ELEV. OF TYP. MULL @ SILL – END CAP
SCALE: FULL



2 SECTION @ END CAP SILL
SCALE: FULL

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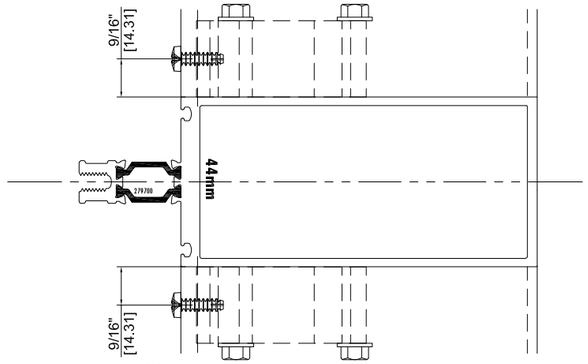
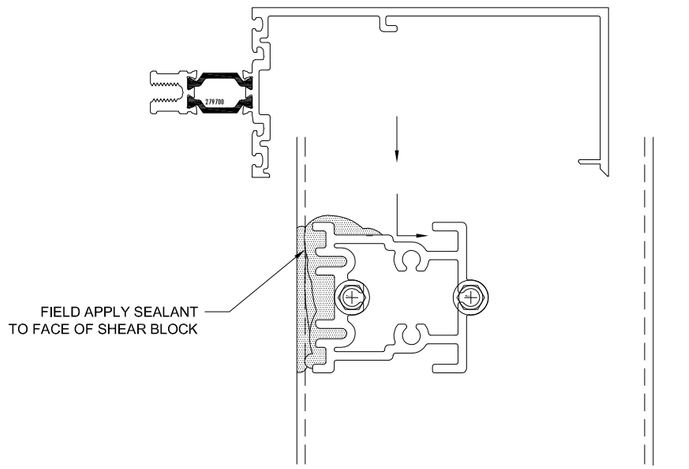
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: JOINERY END CAPS AT SILL
SHEET: D-4.2



1 PLAN @ SHEAR BLOCK ATTACHMENT
SCALE: FULL



2 SEALANT @ SHEAR BLOCK ATTACHMENT
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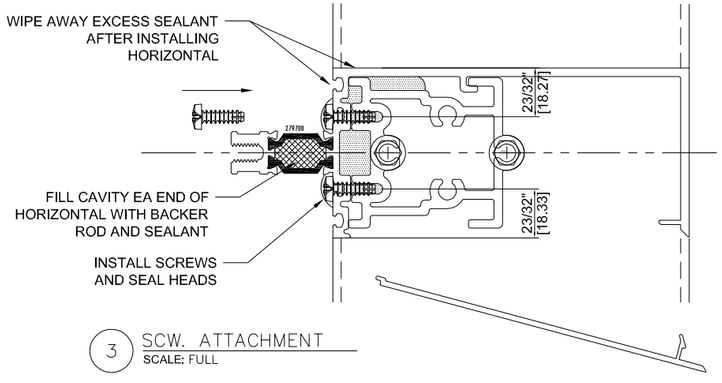
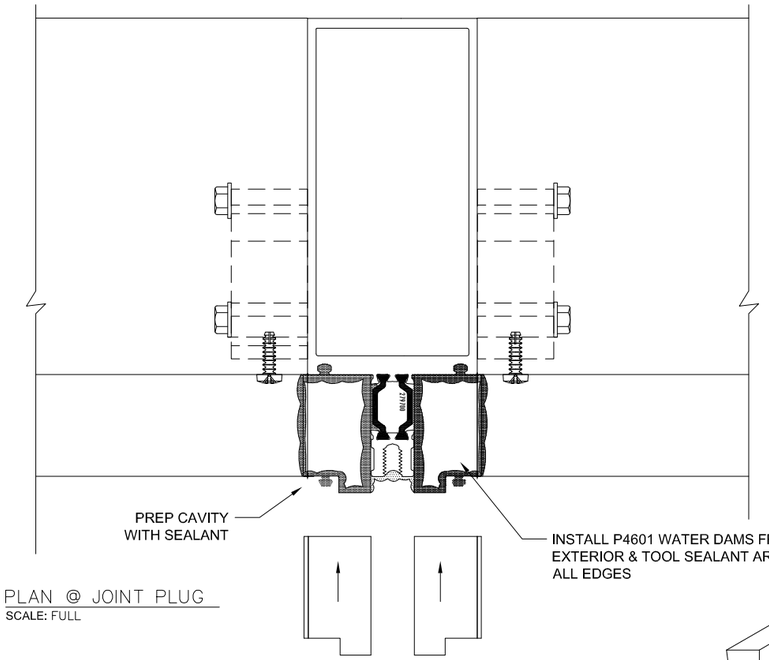
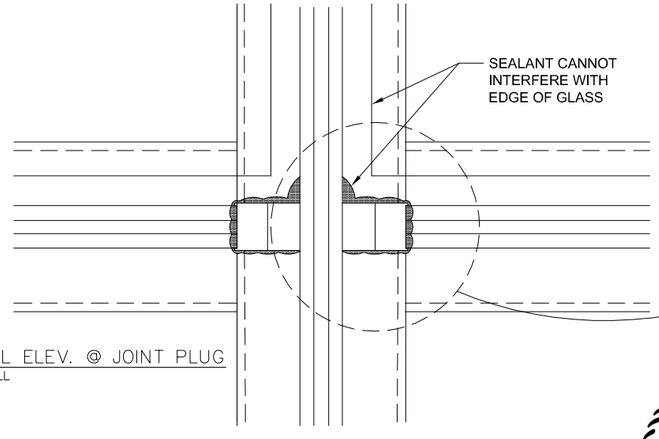


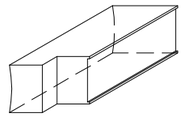
3 SCW. ATTACHMENT
SCALE: FULL



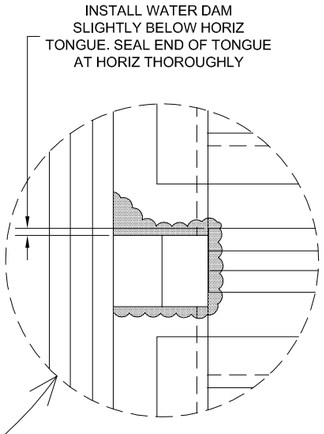
4 PLAN @ JOINT PLUG
SCALE: FULL

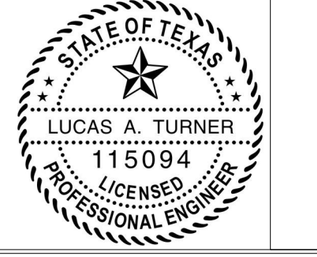


5 PARTIAL ELEV. @ JOINT PLUG
SCALE: FULL



WATER DAM





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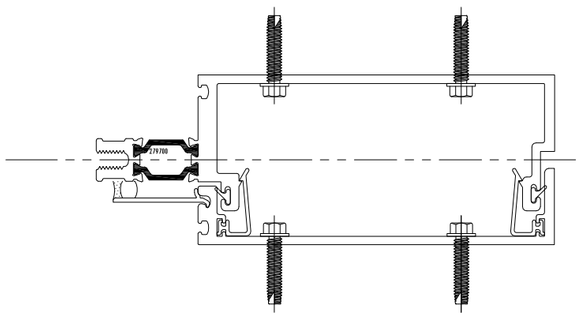
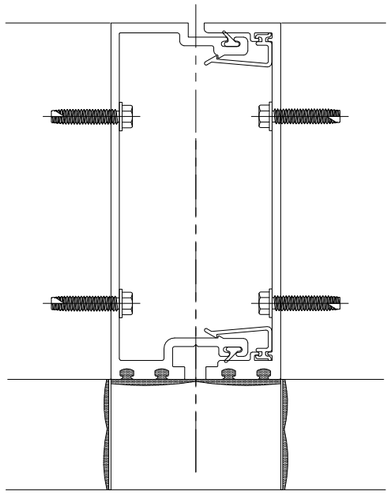
DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: SEALANT ATTACHMENT JOINT PLUGS
SHEET: D-4.3

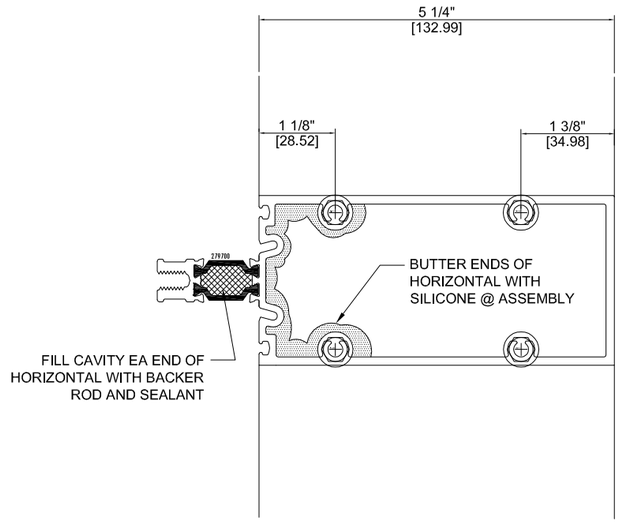


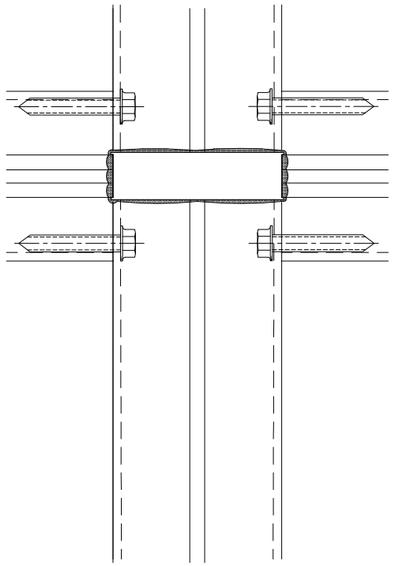
1 SEALANT @ SPLIT MULL / HORIZONTAL
SCALE: FULL



2 ADDITIONAL JOINT PLUGS
SCALE: FULL

P4602 SSG WATER DAM





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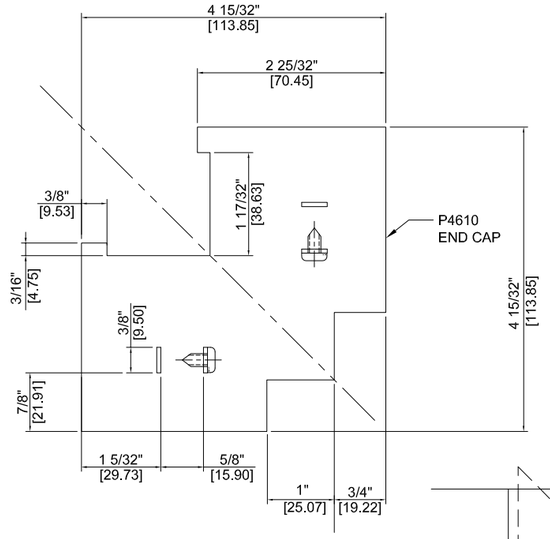
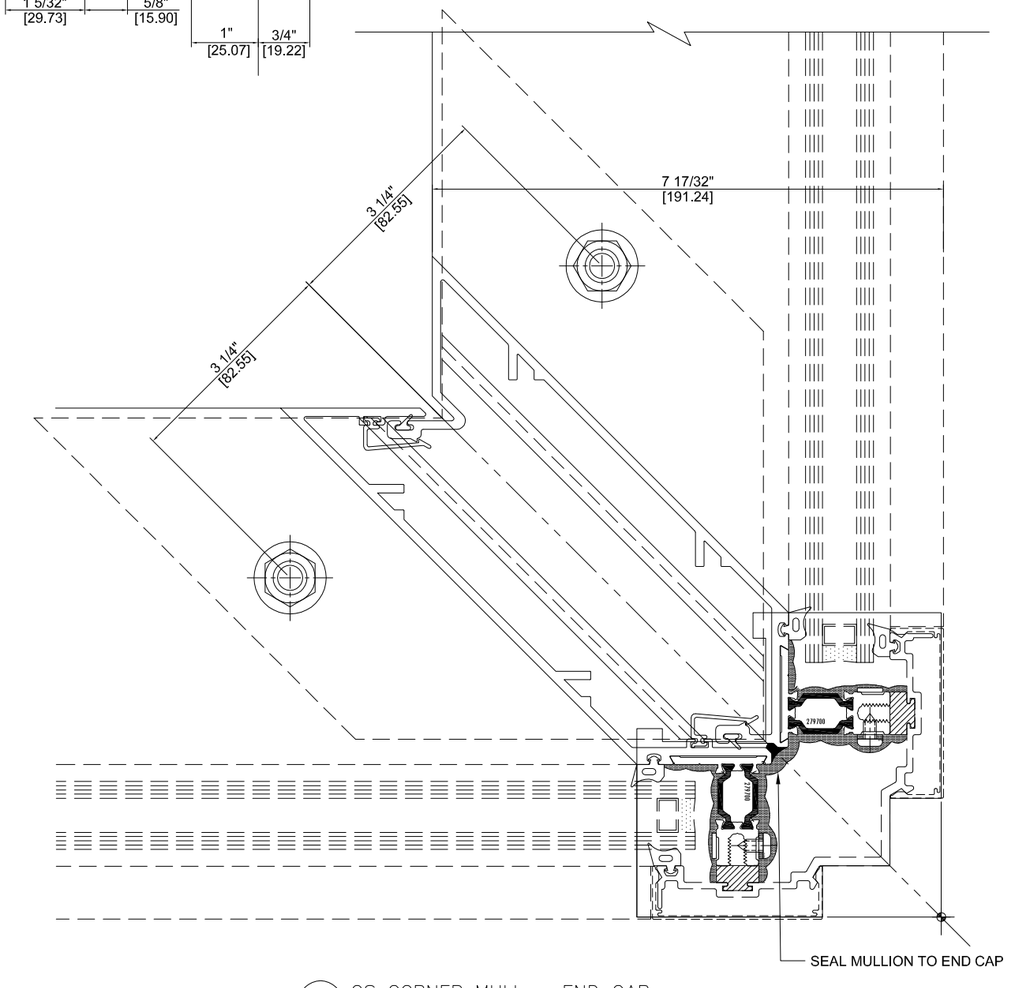
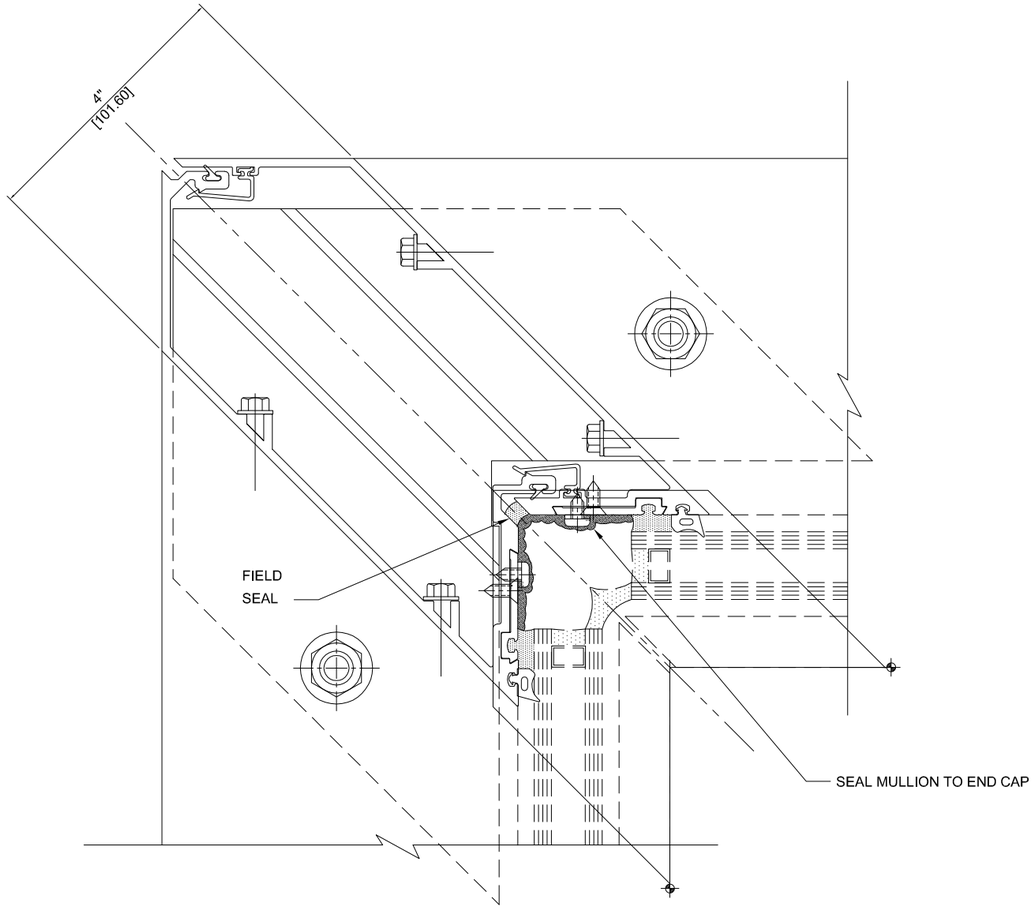
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: SEALANT HORIZ. JOINT PLUG
SHEET: D-4.4

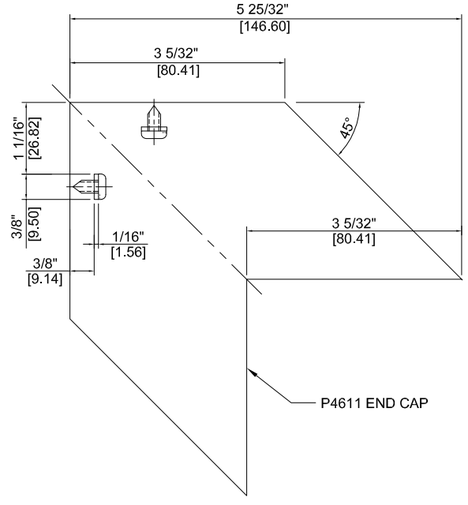




1 OS CORNER MULL – END CAP
SCALE: FULL



2 IS CORNER MULL @ END CAP
SCALE: FULL



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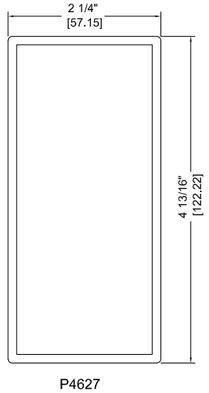
DATE: 02.18.16
DRAWING NUMBER: TDI-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: SEALANT CORNER MULL END CAPS
SHEET: D-4.5



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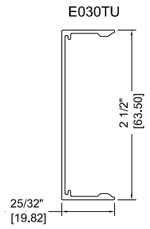

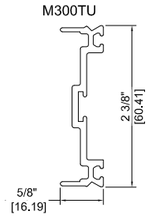

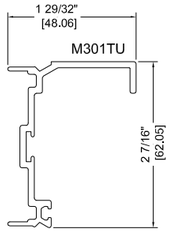

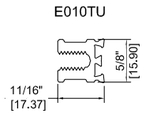

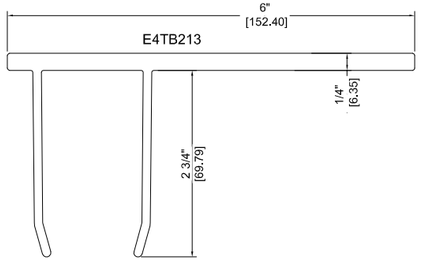

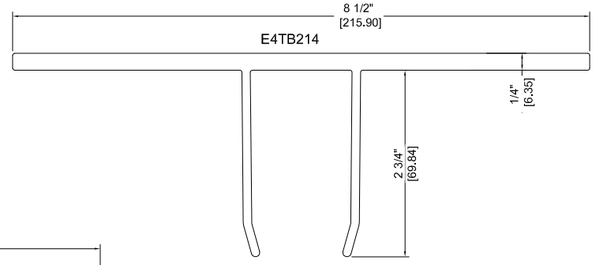

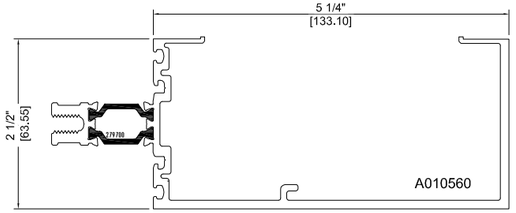

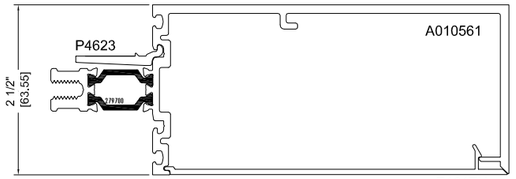

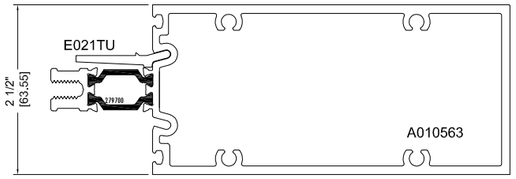

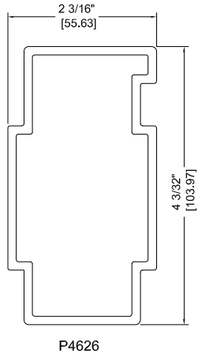

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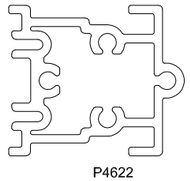

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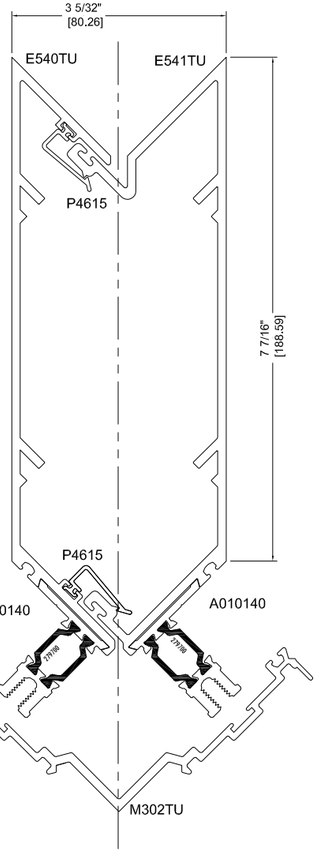

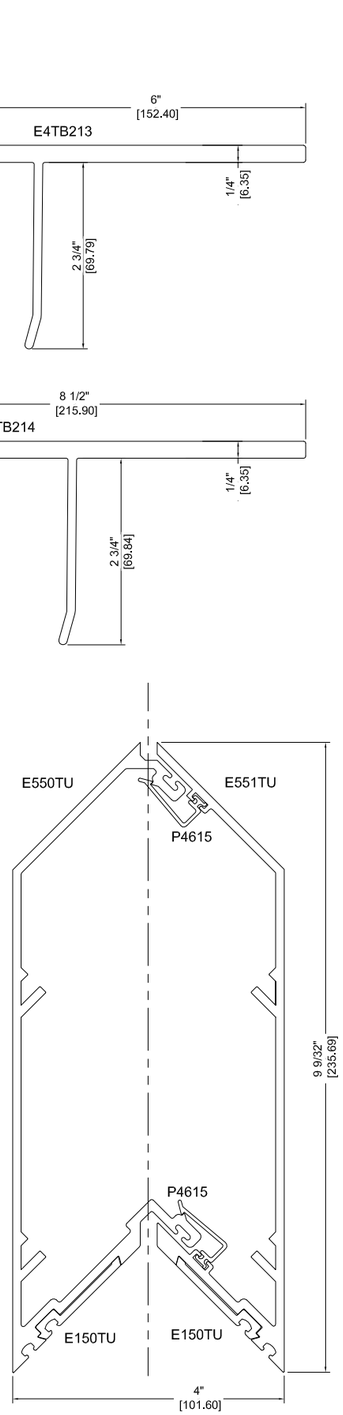

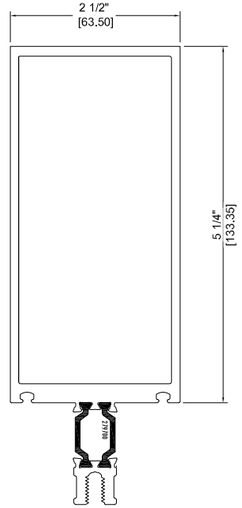

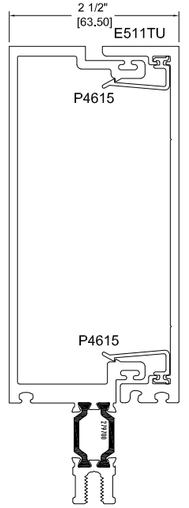

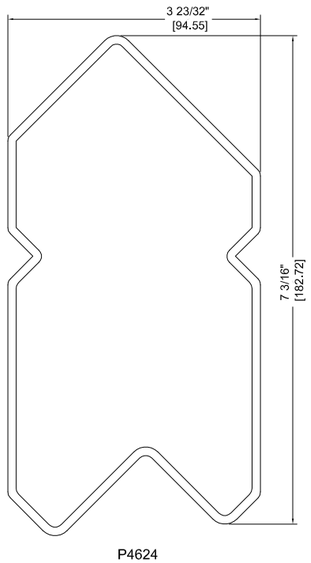

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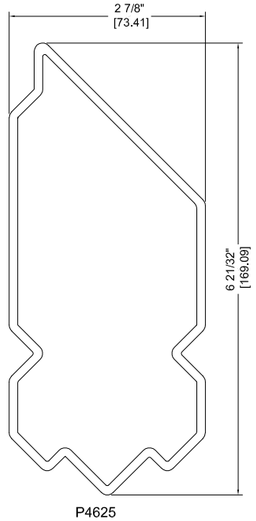

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SCALE: N.T.S.
REVISION: A
SHEET NAME: PROFILES
SHEET: P-1.0