



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Ruskin Company
3900 Dr. Greaves Road
Grandview, MO 64030

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model ELF6375DXD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **60-022277-00B**, titled "ELF6375DXD Approval Drawings", sheets 1 through 32 of 32, dated 03/23/2012, with revision J dated 03/12/2025, prepared by Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Geneva, AL and Juarez Mexico, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

LIMITATION: This louver is to be installed in a location where the room behind the louver is designed to drain water penetrating the room, and the room will house water resistant/waterproof equipment, components, or supplies.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 24-0605.04** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**




04/25/25

NOA No. 25-0408.03
Expiration Date: July 9, 2026
Approval Date: May 8, 2025
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs

A. DRAWINGS “Submitted under NOA # 22-0809.01”

1. Drawing No. **60-022277-00B**, titled “ELF6375DXD Approval Drawings”, sheets 1 through 25 of 25, dated 03/23/2012, with revision G dated 07/18/2022, prepared by Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E. on 10/11/2022.

B. TESTS “Submitted under NOA # 01-0328.04”

1. Test report on Large Missile Impact Test per PA 201, Cyclic wind Pressure Test per PA 203 and Uniform Static Air Pressure Test per PA 202 of “Open, Extruded Aluminum Louver Assembly,” prepared by Construction Research Laboratory Inc., Report No. **97-1124.22**, dated 08/04/2000 and revised on 12/18/2000, signed and sealed by N. S. Balsara, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of ELF6375DXD Aluminum Louvers”, prepared by National Certified Testing Laboratories, Report No. **210-3780-1**, dated 03/26/2012, signed and sealed by Gerard J. Ferrara, P.E.
“Submitted under NOA # 12-0601.22”
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of ELF6375DXD Aluminum Louvers”, prepared by National Certified Testing Laboratories, Report No. **NCTL-210-4234-01**, dated 01/10/2022, signed and sealed by Douglas J. McDougall, P.E.
“Submitted under NOA # 22-0809.01”

C. CALCULATIONS “Submitted under NOA # 16-0519.10”

1. ELF6375DXD louver wind load review, prepared by Ruskin Company, dated 05/04/2016, signed and sealed by Daniel J. Rau, P.E.
2. ELF6375DXD clip angle installation Dade County wind load review, prepared by Ruskin Company, dated 08/06/2010, signed and sealed by Daniel J. Rau, P.E.
“Submitted under NOA # 11-0408.05”
3. Louver wind load review prepared by Ruskin Company, dated 07/19/2022, signed and sealed by Jeffrey D. Smith, P.E. **“Submitted under NOA # 22-0809.01”**



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-0408.03
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Ruskin Company

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D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Distributor agreement dated 09/22/2016. ***“Submitted under NOA # 16-0519.10”***
2. Statement letter of code conformance to the 5th edition (2014) FBC issued by Ruskin Company, dated 05/04/2016, signed and sealed by Daniel J. Rau, P.E. ***“Submitted under NOA # 16-0519.10”***
3. Statement letter of code conformance to 2010 FBC and no financial interest, issued by Ruskin Company, dated 04/26/2012, signed and sealed by Daniel J. Rau, P.E. ***“Submitted under NOA # 12-0601.22”***
4. Statement letter of code conformance to the 6th edition (2017) FBC issued by Ruskin Company, dated 10/09/2017, signed and sealed by Daniel J. Rau, P.E. ***“Submitted under NOA # 17-1025.02”***
5. Statement letter of code conformance to **7th Edition (2020)** of the **FBC** and of no financial interest, prepared by Ruskin Company, dated 03/08/2022, signed and sealed by Jeffrey D. Smith, P.E. ***“Submitted under NOA # 22-0809.01”***
6. Statement letter of code conformance to the **8th Edition (2023)** of the FBC and of no financial interest, issued by Ruskin Company, dated 10/30/2023, signed and sealed by Jeffrey Devon Smith, P.E.

G. OTHER

1. This NOA **revises NOA # 22-0809.01** for the 8th edition (2023) of the FBC update.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-0408.03
Expiration Date: July 9, 2026
Approval Date: May 8, 2025

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 24-0605.04

A. DRAWINGS

1. Drawing No. **60-022277-00B**, titled “ELF6375DXD Approval Drawings”, sheets 1 through 29 of 29, dated 03/23/2012, with revision H dated 05/08/2024, prepared by Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of ELF6375DXD Aluminum Louvers, prepared by Intertek, Report No. **Q1195.01-801-18 R0**, dated 09/08/2023, signed and sealed by Tyler Westerling, P.E.

C. CALCULATIONS

1. Louver wind load review prepared by Ruskin Company, dated 05/08/2024, signed and sealed by Jeffrey D. Smith, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Ruskin Company, dated 05/07/2024, signed and sealed by Jeffrey D. Smith, P.E.
2. Statement letter of no financial interest, issued by Ruskin Company, dated 05/07/2024, signed and sealed by Jeffrey D. Smith, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-0408.03
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New evidence submitted

A. DRAWINGS

1. Drawing No. **60-022277-00B**, titled “ELF6375DXD Approval Drawings”, sheets 1 through 32 of 32, dated 03/23/2012, with revision J dated 03/12/2025, prepared by Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of ELF6375DXD Aluminum Louvers, prepared by Intertek, Report No. **S0188.01-801-18 r0**, dated 12/17/2024, signed and sealed by Tyler Westerling, P.E.

C. CALCULATIONS

1. Louver wind load review prepared by Ruskin Company, dated 03/14/2025, signed and sealed by Jeffrey D. Smith, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

3. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Ruskin Company, dated 03/14/2025, signed and sealed by Jeffrey D. Smith, P.E.
4. Statement letter of no financial interest, issued by Ruskin Company, dated 03/14/2025, signed and sealed by Jeffrey D. Smith, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
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TABLE 01 - PARTS LIST FOR 100PSF JAMB ONLY ATTACHMENT			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
1	HEAD FRAME - JAMB ONLY	0.125" THK. EXTRUDED ALUM.	6063-T6
2	SILL FRAME - JAMB ONLY	0.125" THK. EXTRUDED ALUM.	6063-T6
3	JAMB FRAME	0.080" THK. EXTRUDED ALUM.	6063-T6
4	DRAINABLE BLADE	0.080" THK. EXTRUDED ALUM.	6063-T6
5	BLADE BRACE	0.100" THK. EXTRUDED ALUM.	6063-T6
6	OFFSET TEE SUPPORT FOR BLADE	0.125" THK EXTRUDED ALUM.	6063-T6
7	1/4-20 X 3/4" HHB W LOCK WASHER AND HEX NUT	300S	-
8	SCREW #10-16 X 1" LG HWH TEK3	PLTD STL	

TABLE 03 - MULTI-SECTION CONNECTION PARTS			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
9	MULLION ATTACHMENT ANGLE	0.125" THK EXTRUDED ALUM.	6063-T6
10	2" SPLICE PLATE	EXTRUDED ALUM.	6063-T6
11	FSNR KIT 3/8-16X3"LG W LOCKNUT	ZINC PLATED	-

TABLE 04 - INSTALLATION PARTS (SHIP LOOSE) - 100 PSF WINDLOAD			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
12	ATTACHMENT CLIP ANGLE, 2" LG.	0.250" THK EXTRUDED ALUM.	6063-T6
13	CONT. FORMED ANGLE - JAMBS	0.250" THK FORMED ALUM.	3003-H14
14	CONT. ATTACHMENT ANGLE - JAMBS	0.250" THK EXTRUDED ALUM.	6063-T6
15	ALTERNATE ATTACHMENT CLIP ANGLE, 6" LG.	0.250" THK EXTRUDED ALUM.	6063-T6
16	CLIP ANGLE - FORMED (CMU), 6" LG	0.250" THK FORMED ALUM.	3003-H14
17	STRUCTURAL ATTACHMENT ANGLE, 15" LG.	.375" EXTRUDED ALUM.	6063-T6
18	CLIP ANGLE - FORMED, 2" LG	0.250" THK FORMED ALUM.	3003-H14
19	ATTACHMENT ANGLE (CMU), 4" LG.	0.250" THK EXTRUDED ALUM.	6063-T6
20	REVERSE CLIP ANGLE - JAMBS	0.250" THK EXTRUDED ALUM.	6063-T6
21	REVERSE CLIP ANGLE - HEAD/SILL	0.250" THK EXTRUDED ALUM.	6063-T6
22	#10 - 16 x 1" LG TEK SCREW	410SS/ZC	-
23	SCREW #10-16 X 1.500" LG. HWH SDS	410SS/ZINC COATED	-
24	SCREW 1/4-20 X 1.000" LG. HWH SDS	410SS/ZINC COATED	
25	FSNR KIT 1/4-20X1.5"LG W LOCKNUT	ZINC PLATED	-
26	FSNR KIT 3/8-16X2"LG W LOCKNUT	ZINC PLATED	-
27	SUBSTRATE FASTENER (BY OTHERS)	REFER TABLES 08/05 & 09/10	

TABLE 05 - UNIVERSAL SLEEVE PARTS			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
28	HEAD FRAME W/INTEGRAL FLANGE	0.125" THK. EXTRUDED ALUM.	6063-T6
29	SILL FRAME W/INTEGRAL FLANGE	0.125" THK. EXTRUDED ALUM.	6063-T6
30	JAMB FRAME W/INTEGRAL FLANGE	0.080" THK. EXTRUDED ALUM.	6063-T6
31	FRONT FLANGE UNIVERSAL SLEEVE	0.250" THK FORMED ALUM.	3003-H14
32	CONT. RETAINING ANGLE - 8" SPACING	0.250" THK EXTRUDED ALUM.	6063-T6
33	CONT. RETAINING ANGLE - 18" SPACING	0.250" THK EXTRUDED ALUM.	6063-T6
34	CONT. RETAINING ANGLE - 24" SPACING	0.250" THK EXTRUDED ALUM.	6063-T6
35	US SUPPORT ATTACHMENT ANGLE, 5" LG.	0.250" THK EXTRUDED ALUM.	6063-T6
36	FSNR KIT 1/2-13X3.5"LG W LOCKNUT	ZINC PLATED A307	-
37	SCREW 1/4-20 X 1.000" LG. HWH SDS	410SS/ZINC COATED A307	-

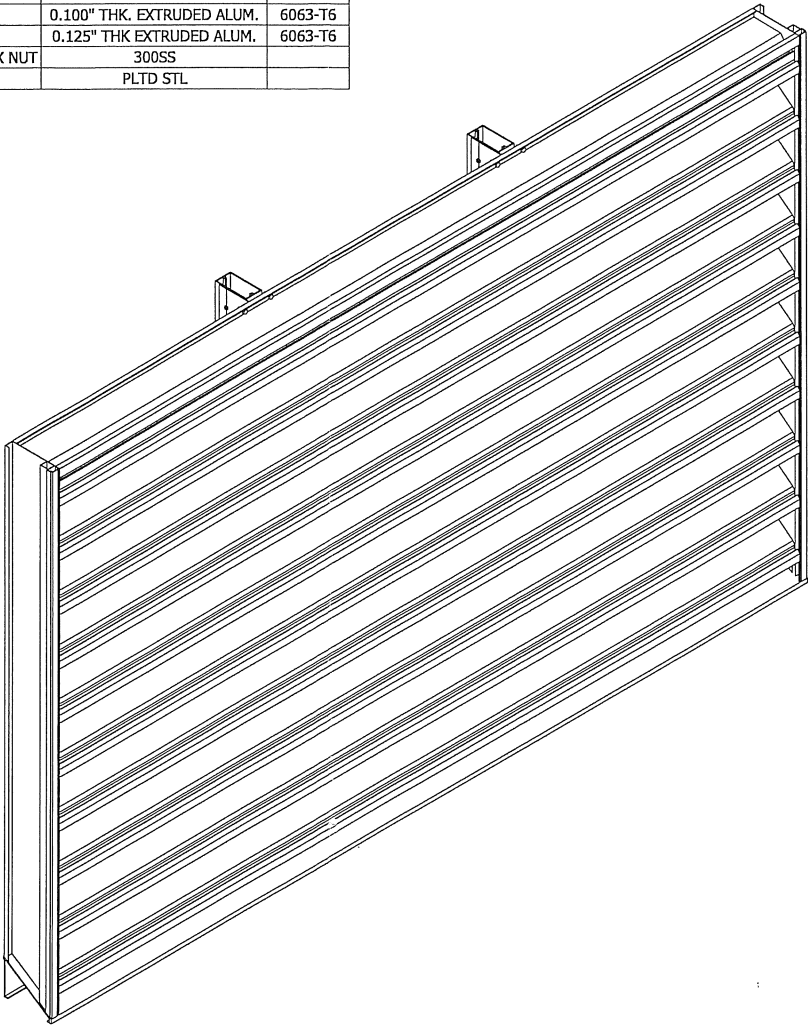
TABLE 06 - H.V.B.S. SUPPORTS OPTIONS BASED ON SECTION HEIGHT - JAMB ONLY ATTACHMENT

ITEM #	DESCRIPTION	LOUVER HEIGHT RANGE	MATERIAL	ALLOY
38	3" HVBS DOUBLE FLANGED	UP TO 34" TALL	EXT. ALUMINIUM	6063-T6
39	6" HVBS DOUBLE FLANGED	GREATER THAN 34" TO 49"	EXT. ALUMINIUM	6063-T6
40	6" HVBS I SHAPE	GREATER THAN 49" TO 60"	EXT. ALUMINIUM	6063-T6

TABLE 07 - H.V.B.S./ MULLION SUPPORTS OPTIONS BASED ON SECTION HEIGHT - PERIMETER ATTACHMENT

ITEM #	DESCRIPTION	LOUVER HEIGHT RANGE	MATERIAL	ALLOY
38	3" HVBS DOUBLE FLANGED	UP TO 34" TALL	EXT. ALUMINIUM	6063-T6
39	6" HVBS DOUBLE FLANGED	GREATER THAN 34" TO 49"	EXT. ALUMINIUM	6063-T6
40	6" HVBS I SHAPE	GREATER THAN 49" TO 65"	EXT. ALUMINIUM	6063-T6
41	2" X 4" X 1/8" THICK TUBE SUPPORT	GREATER THAN 65" TO 72"	EXT. ALUMINIUM	6063-T6
42	2" X 6" X 1/8" THICK TUBE SUPPORT	GREATER THAN 72" TO 90"	EXT. ALUMINIUM	6063-T6

TABLE 02 - PARTS LIST FOR 100PSF PERIMETER ATTACHMENT			
ITEM	DESCRIPTION	MATERIAL	ALLOY
1	HEAD FRAME	0.080" THK. EXTRUDED ALUM.	6063-T6
2	SILL FRAME	0.125" THK. EXTRUDED ALUM.	6063-T6
3	JAMB FRAME	0.080" THK. EXTRUDED ALUM.	6063-T6
4	DRAINABLE BLADE	0.080" THK. EXTRUDED ALUM.	6063-T6
5	BLADE BRACE	0.100" THK. EXTRUDED ALUM.	6063-T6
6	OFFSET TEE SUPPORT FOR BLADE	0.125" THK EXTRUDED ALUM.	6063-T6
7	1/4-20 X 3/4" HHB W LOCK WASHER AND HEX NUT	300SS	
8	SCREW #10-16 X 1" LG HWH TEK3	PLTD STL	



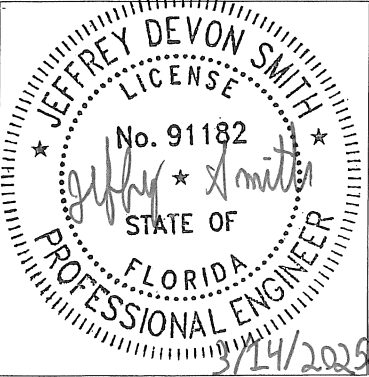
ELF6375DXD LOUVER - FOR 100 PSF WINDLOAD

NOTES

- LOUVER SYSTEM WITH 100 PSF WINDLOAD HAS TWO TYPES OF ASSEMBLIES AS PER INSTALLATION METHOD - **JAMB ONLY ATTACHMENT & PERIMETER ATTACHMENT.**
- THIS LOUVER SYSTEM IS APPROVED FOR JAMB ONLY ATTACHMENT AND APPLICATION WITH DESIGN PRESSURE **+/-100PSF**, MAXIMUM SINGLE SECTION SIZE IS **96"WIDE X 60" HIGH, 96" WIDE X UNLIMITED HIGH**
- ALTERNATE ATTACHMENT** USED IN **DETAIL B/03** IS NOT THE RESPONSIBILITY OF RUSKIN AND HAVE TO BE DESIGNED AND SPECIFIED BY ENGINEER OF RECORD.
- THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- IT SHALL BE RESPONSIBILITY OF PERMIT HOLDER/BUILDING DESIGN ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THIS LOUVER SYSTEM.
- MAXIMUM SINGLE SECTION SIZE IS **120" WIDE X 90" HIGH.**
- MAXIMUM ASSEMBLED LOUVER SIZE : **UNLIMITED WIDTH X 90" HEIGHT OR 96" WIDTH X UNLIMITED HEIGHT.**
- ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
- THIS LOUVER SYSTEM IS TO BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT / WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.
- ALL CMU BLOCKS MUST BE GROUT FILLED. MIN. PRISM STRENGTH OF 1500 PSI AT TIME OF INSTALLATION. CMU BLOCKS MUST BE MIN. TYPE 1, GRADE N, LIGHT, MEDIUM OR NORMAL WEIGHT PER ASTM C90. GROUT AND MORTAR MUST COMPLY WITH FLORIDA BUILDING CODE.
- PART NUMBERS WITH SQUARE BALLOONS ARE **"SHIP LOOSE PARTS".**
- ALL FASTENERS SHALL BE CORROSION RESISTANT.


DRAWING SHEET INDEX:

- SHEET 01** - NOTES, PARTS LIST, DRAWING INDEX, ISO VIEW - 100 PSF
SHEET 02 - ASSEMBLY "A" - BASIC ASSEMBLY & DETAILS - 100PSF (JAMB ONLY ATTACHMENT)
SHEET 03 - ASSEMBLY "A" - MULTI SECTION ASSEMBLY - 100PSF (JAMB ONLY ATTACHMENT)
SHEET 04 - ASSEMBLY "A" - INSTALLATION DETAILS
SHEET 05 - ASSEMBLY "A" - UNIVERSAL SLEEVE INSTALL & WALL FASTENER TABLE
SHEET 06 - ASSEMBLY "B" - BASIC ASSEMBLY - 100 PSF (PERIMETER ATTACHMENT)
SHEET 07 - ASSEMBLY "B" - MULTI SECTION ASSEMBLY & DETAILS - 100 PSF (PERIMETER ATTACHMENT)
SHEET 08 - ASSEMBLY "B" - CMU/NON CMU INSTALL
SHEET 09 - ASSEMBLY "B" - UNIVERSAL SLEEVE INSTALL
SHEET 10 - ASSEMBLY "B" - UNIVERSAL SLEEVE, ALTERNATE CLIP INSTALL & WALL FASTENER TABLE
SHEET 11 - PARTS
SHEET 12 - PARTS
SHEET 13 - PARTS
SHEET 14 - PARTS & WALL FASTENER TABLE
SHEET 15 - NOTES, PARTS LIST, ISO VIEW - 150 PSF
SHEET 16 - ASSEMBLY "C" - SINGLE SECTION ASSEMBLY - 150PSF
SHEET 17 - ASSEMBLY "C" - MULTI SECTION ASSEMBLY - 150PSF
SHEET 18 - STANDARD LOUVER BUILD DETAILS
SHEET 19 - ASSEMBLY "C" - STANDARD INSTALLATION DETAILS
SHEET 20 - ASSEMBLY "C" - ALTERNATE INSTALLATION DETAILS - REVERSED
SHEET 21 - ASSEMBLY "C" - ALTERNATE INSTALLATION DETAILS (>6" CMU)
SHEET 22 - ASSEMBLY "C" - ALTERNATE INSTALLATION DETAILS (6" CMU)
SHEET 23 - WALL FASTENER TABLE
SHEET 24 - UNIVERSAL SLEEVE ASSEMBLY
SHEET 25 - UNIVERSAL SLEEVE INSTALLATION DETAILS
SHEET 26 - ASSEMBLY "D" & "E" - SINGLE SECTION ASSEMBLY - 150PSF
SHEET 27 - ASSEMBLY "D" & "E" - DETAILS - 150PSF
SHEET 28 - PARTS
SHEET 29 - PARTS
SHEET 30 - PARTS
SHEET 31 - PARTS
SHEET 32 - PARTS



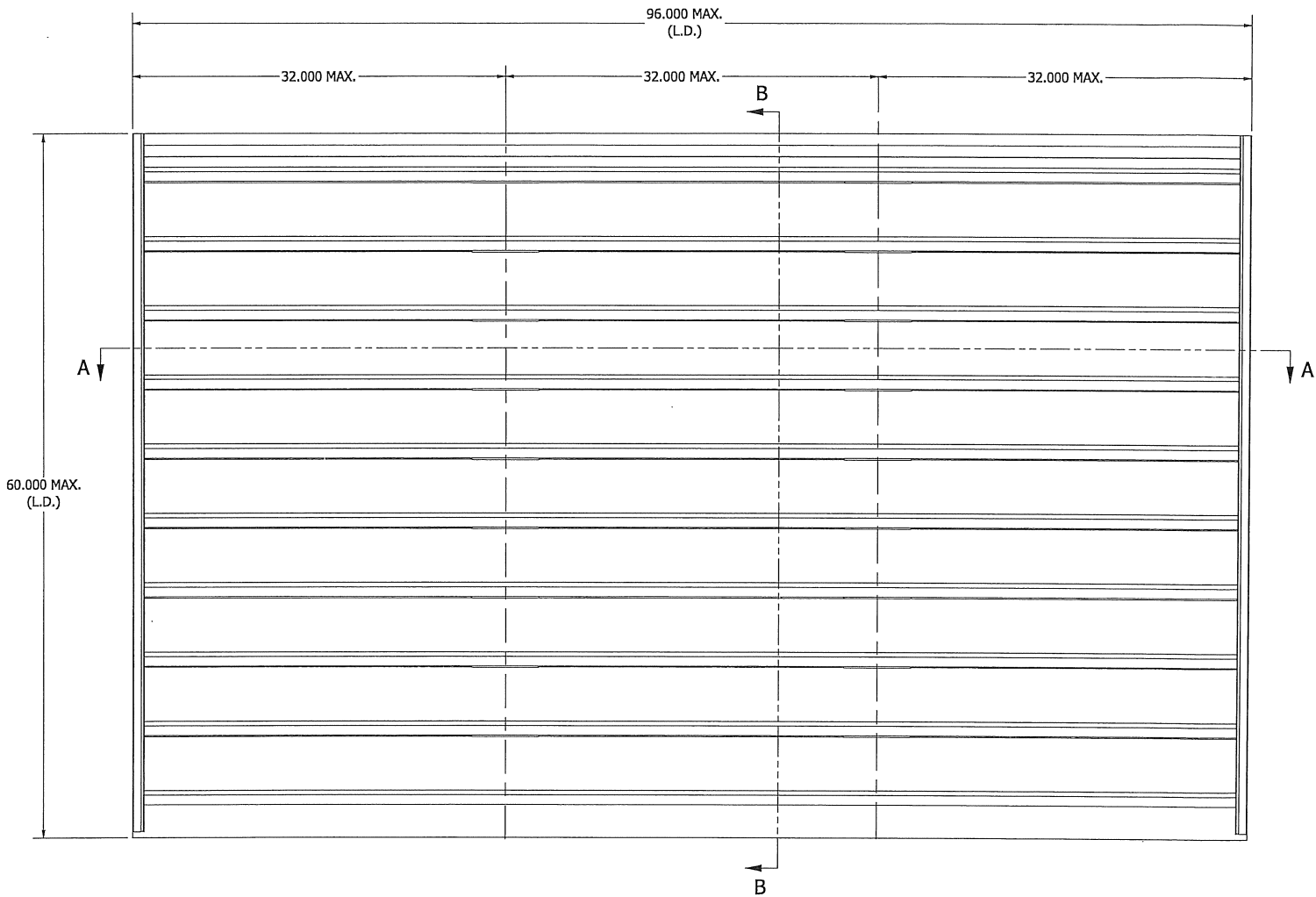
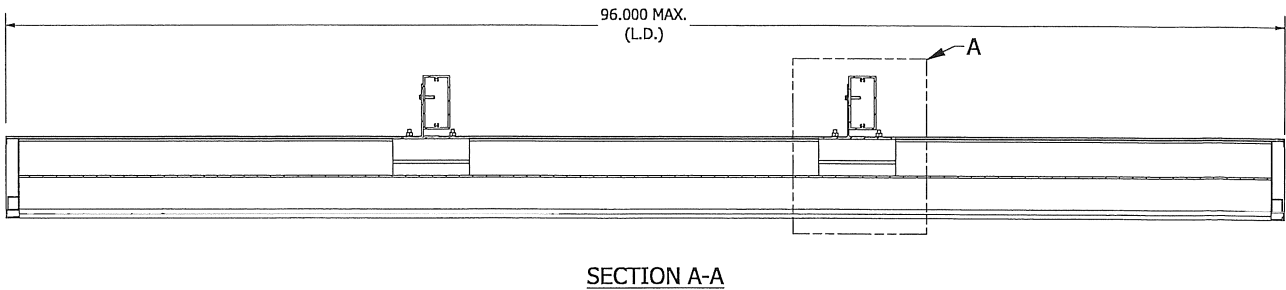
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 25-0408.03
Expiration Date 07/09/2026
By *[Signature]*
Miami-Dade Product Control

JEFFREY DEVON SMITH, P.E.
NO. 91182

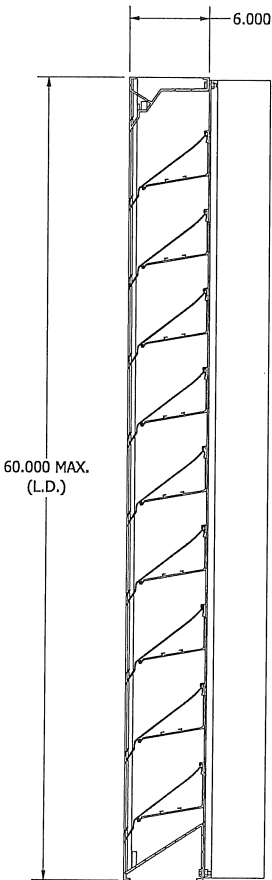
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES		NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD		RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION		BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL				
CHECKED	DRP	3/23/2012					
APPROVED	DRP	3/23/2012					
APPROVED			PRODUCT		ELF6375DXD		
MATERIAL			TITLE				
			NOTES, PARTS LIST, DRAWING INDEX, ISO VIEW-100PSF				
			SIZE	DWG NO			REV
			D		60-022277-00B		J
ECN	XXXXXX		SCALE	NONE	INVENTOR	SHEET 1 of 32	

UNLESS OTHERWISE SPECIFIED, USE STD. ENGINEERING TOLERANCES PER WIQ-007

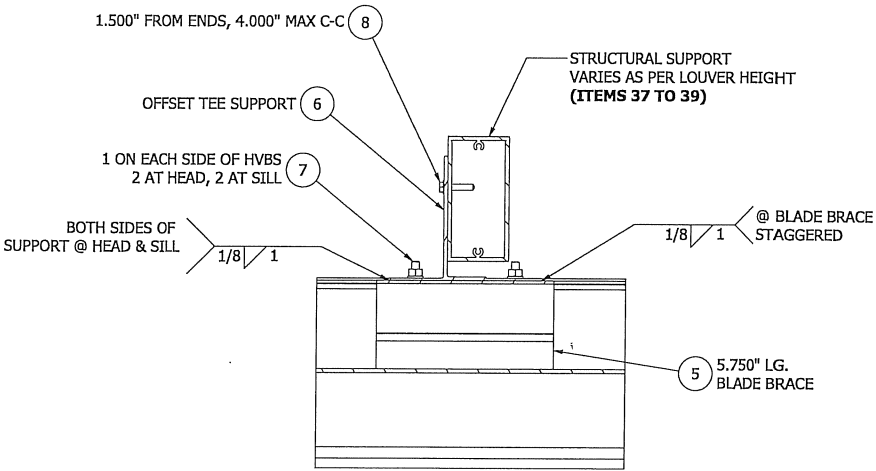
100PSF WINDLOAD - JAMB ONLY ATTACHMENT



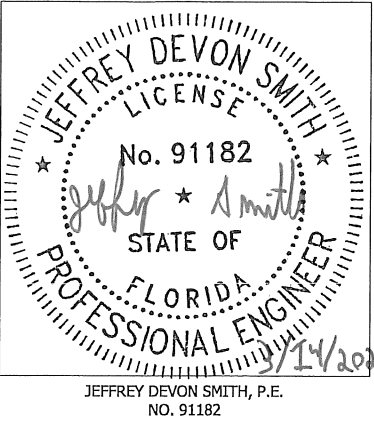
ASSEMBLY "A" - SINGLE SECTION VIEW-FOR WINDLOAD-100PSF JAMB ONLY ATTACHMENT
LOUVER SIZE - 96.000" W X 60.000" H




SECTION B-B



DETAIL A
HVBS CONNECTION DETAIL

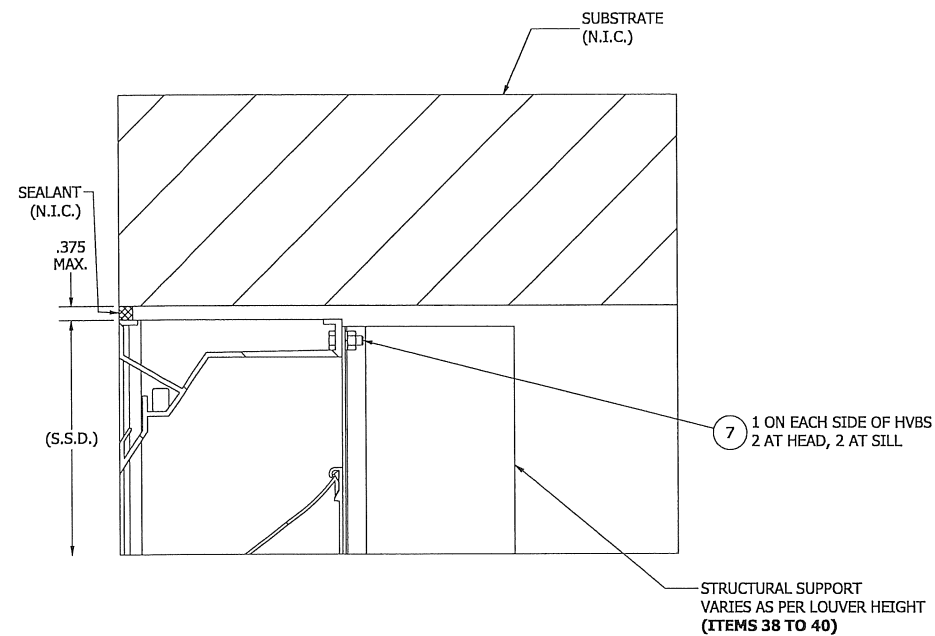


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03
Expiration Date 07/09/2026
By *[Signature]*
Miami-Dade Product Control

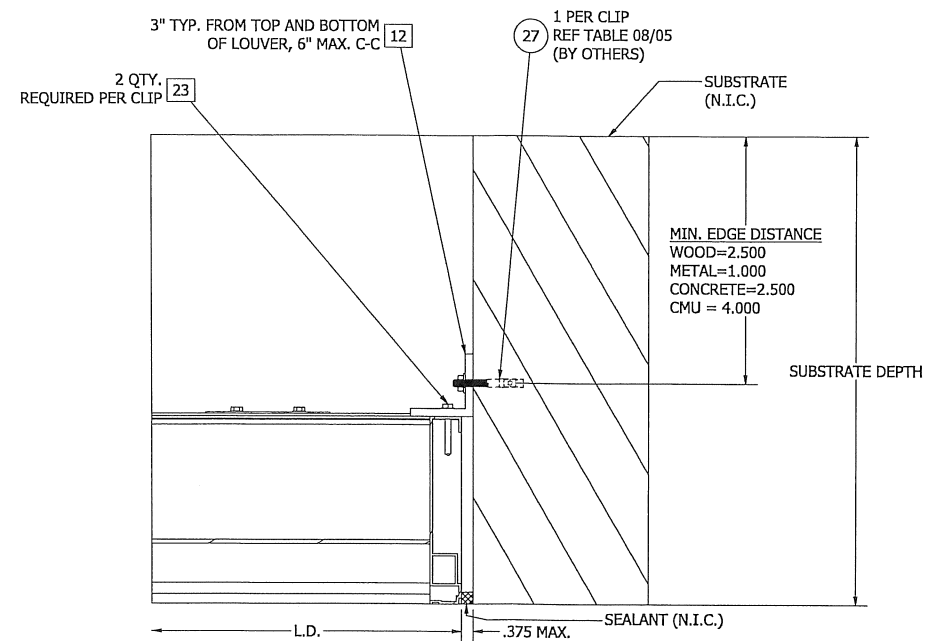
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR 2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL				
CHECKED	DRP 3/23/2012					
APPROVED	DRP 3/23/2012					
APPROVED						
MATERIAL		PRODUCT	ELF63/SDXD			
		TITLE	ASSEMBLY "A" - BASIC ASSEMBLY & DETAILS - 100PSF (JAMB ONLY ATTACHMENT)			
		SIZE	D	DWG NO	60-022277-00B	REV J
ECN	XXXXX	SCALE	NONE		INVENTOR	SHEET 2 OF 32

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ENGINEERING TOLERANCES PER WIQ-007

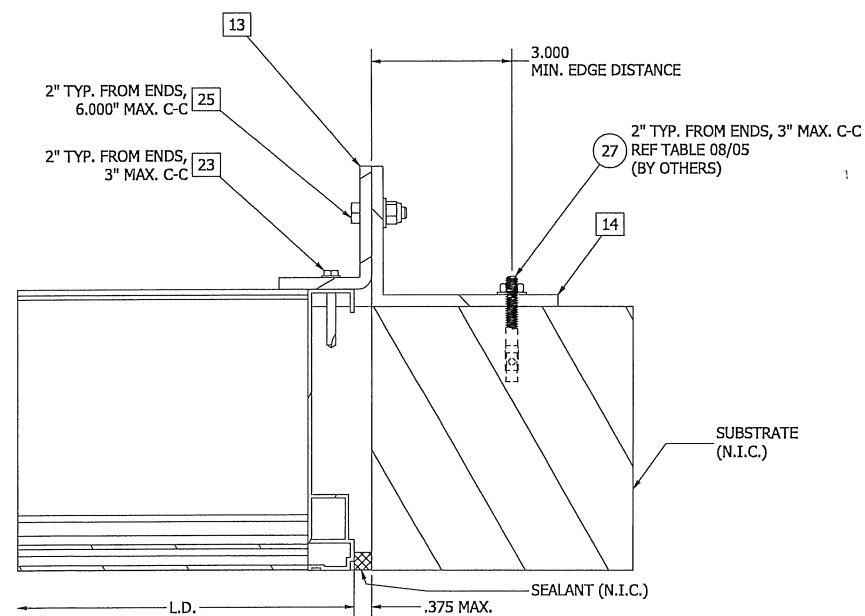
100PSF WINDLOAD - JAMB ONLY ATTACHMENT



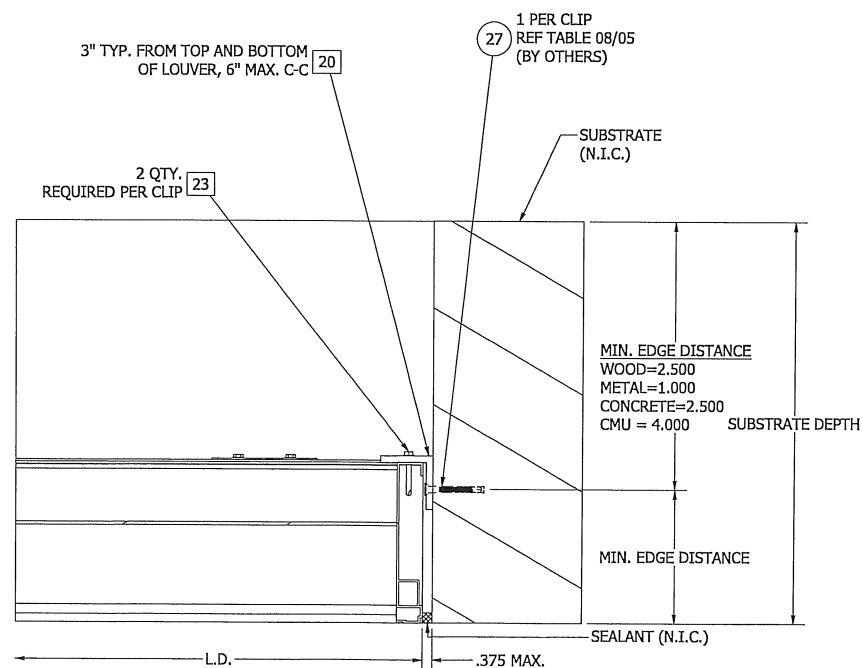
DETAIL C
LOUVER HVBS SUPPORT ATTACHMENT AT HEAD (SILL SIMILAR)



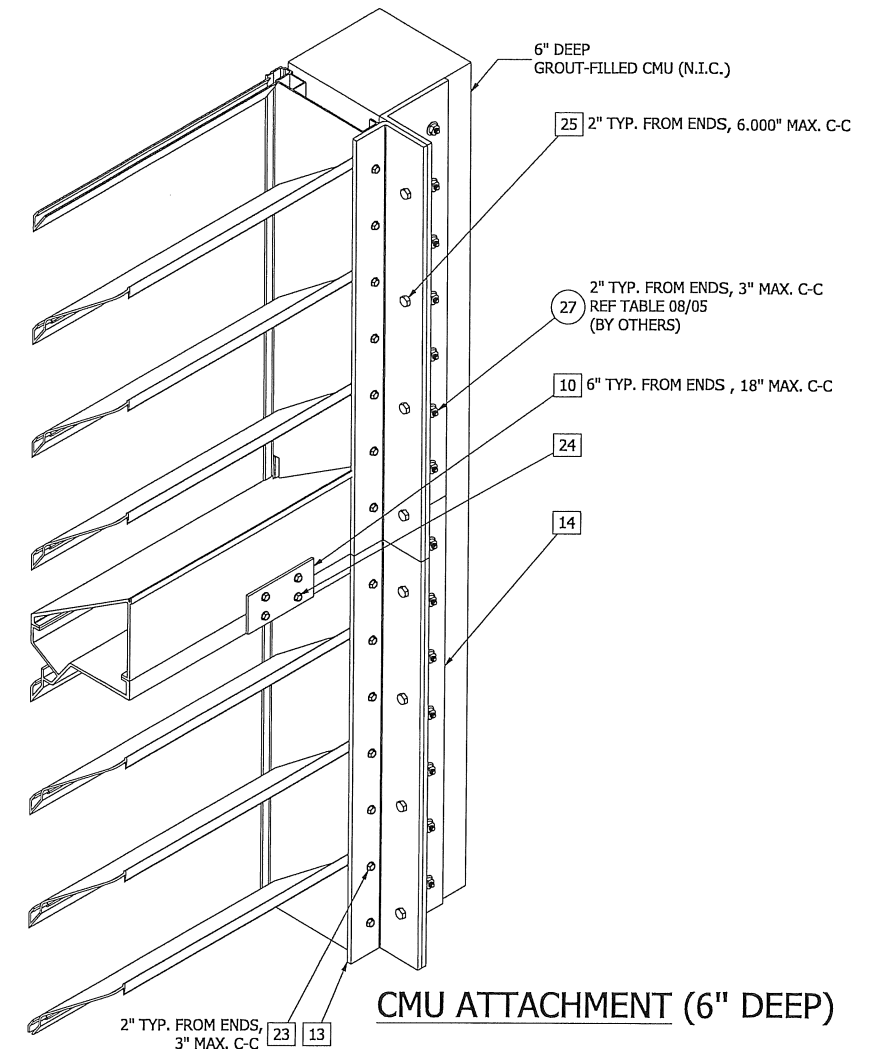
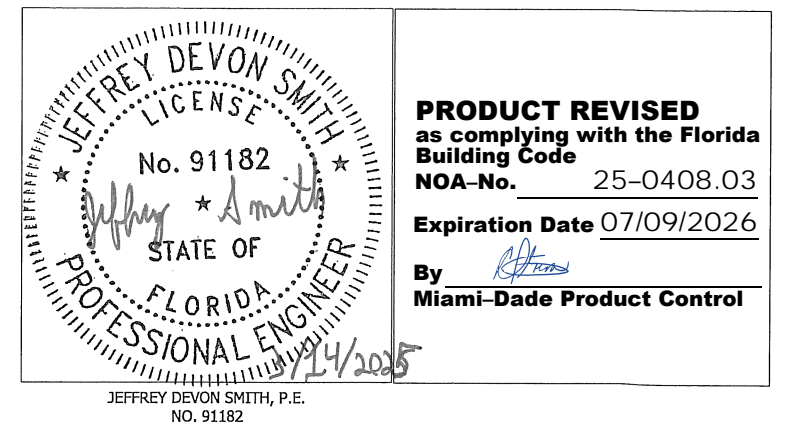
DETAIL D
ATTACHMENT CLIP ANGLE INSTALLATION @ JAMB FRAME



DETAIL E
ATTACHMENT CLIP ANGLE INSTALLATION @ JAMB FRAME
(GROUT-FILLED CMU, 6" CMU ONLY)



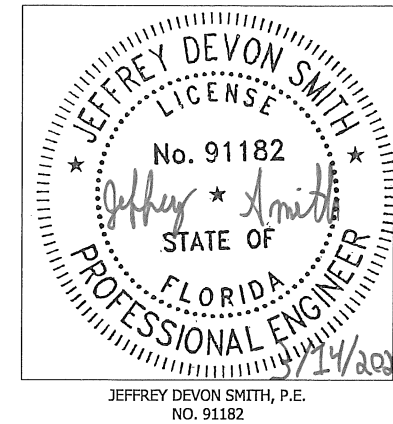
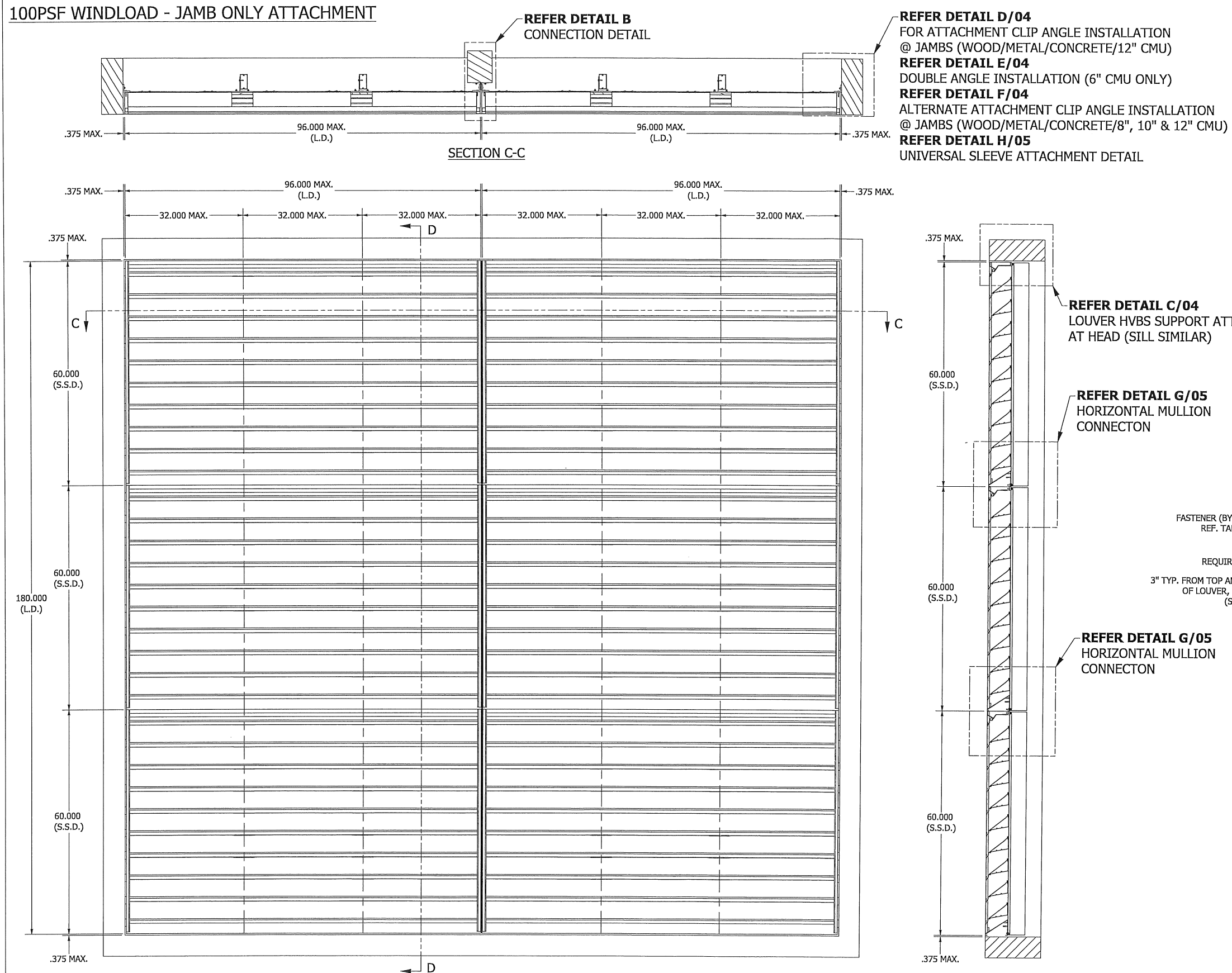
DETAIL F
ALTERNATE ATTACHMENT CLIP ANGLE INSTALLATION @ JAMB FRAME
IN REVERSE DIRECTION (ALTERNATE CONNECTION)




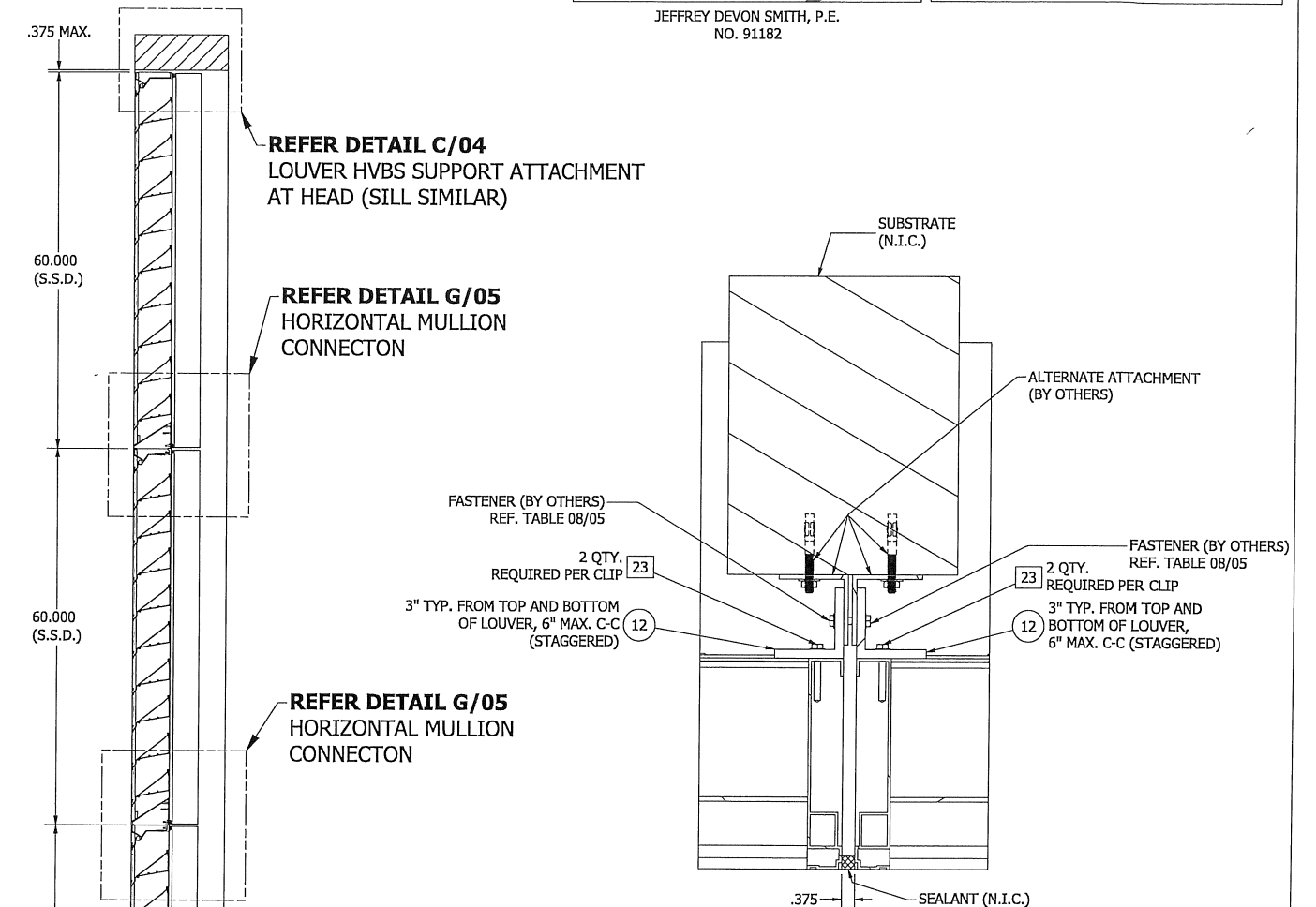
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 RUSKIN AUTHORITY IN AIR CONTROL 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED						
MATERIAL			PRODUCT ELF6375DXD TITLE ASSEMBLY "A" - INSTALLATION DETAILS SIZE D DWG NO 60-022277-00B REV J SCALE NONE INVENTOR SHEET 4 of 32			
ECN	XXXXX					

UNLESS OTHERWISE SPECIFIED, USE STD.
ENGINEERING TOLERANCES PER WIQ-007

100PSF WINDLOAD - JAMB ONLY ATTACHMENT



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DETAIL B
CONNECTION DETAIL

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED						
MATERIAL	PRODUCT		ELF635DXD			
TITLE		ASSEMBLY "A" - MULTI SECTION ASSEMBLY - 100PSF (JAMB ONLY ATTACHMENT)				
SIZE D		DWG NO			REV J	
SCALE		60-022277-00B				
EEN	XXXXX	NONE		INVENTOR SHEET 3 OF 32		

ASSEMBLY "A" - MULTI SECTION VIEW-FOR WINDLOAD-100PSF JAMB ONLY ATTACHMENT
MAX. SHIP SECTION - 96.000" W X 60.000" H

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ENGINEERING TOLERANCES PER WIO-007

100PSF WINDLOAD - JAMB ONLY ATTACHMENT

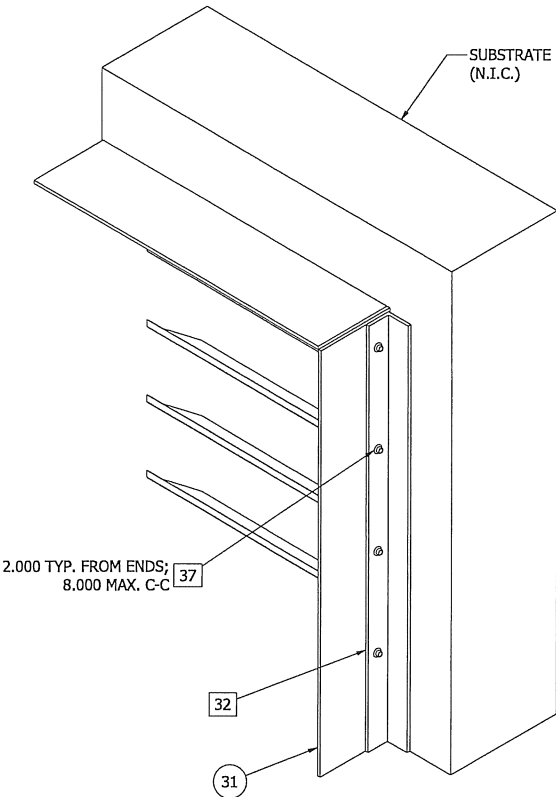
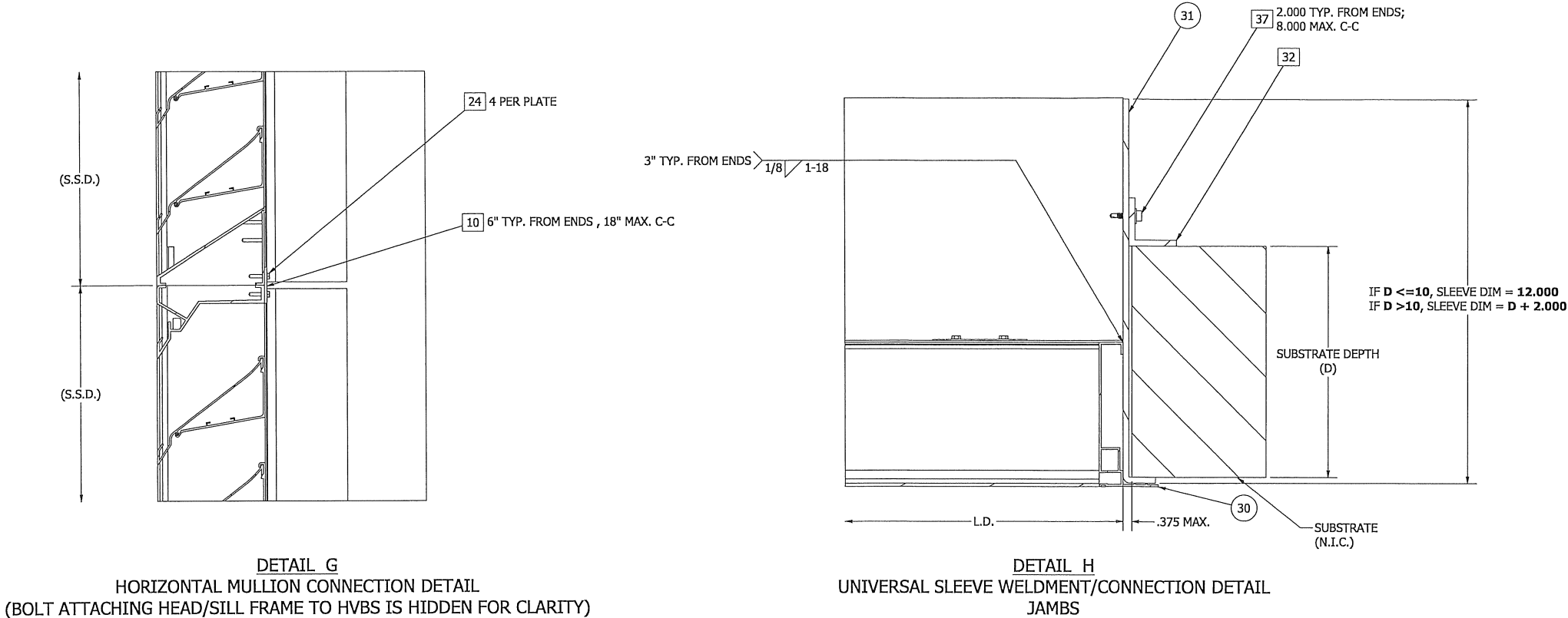


TABLE 08 - ELF6375DXD - WALL FASTENER TABLE (N.I.C.) - FOR JAMB ONLY CONNECTION - 100PSF (ITEM 27)				
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE (STANDARD/REVERSE)
WOOD	SPECIFIC GRAVITY = 0.4	1/4" Ø BOLT, A307 WASHER & LOCKNUT	NA	2 1/2"
STEEL & ALUMINUM	STEEL - MIN. 14 GA ALUM. - MIN. 1/8" THICK	1/4" Ø A307 BOLT OR TEK SCREW	NA	1"
CONCRETE	3000 PSI MIN. COMPRESSIVE STRENGTH (UNCRAKED)	1/4" Ø X 2 1/4" HILTI KWIK CON + W / WASHER**	1 3/4"	2 1/2"
GROUT FILLED CMU (SINGLE ANGLE)	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH. (UNCRAKED)	1/4" Ø X 2 1/2" HILTI KWIK HUS EZ W / WASHER **	1 5/8"	4"
GROUT FILLED CMU (DOUBLE ANGLE)	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH. (UNCRAKED)	1/4" Ø X 1 1/4" HILTI KWIK CON + **	1"	3"

JEFFREY DEVON SMITH
LICENSE
No. 91182
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
3/14/2025

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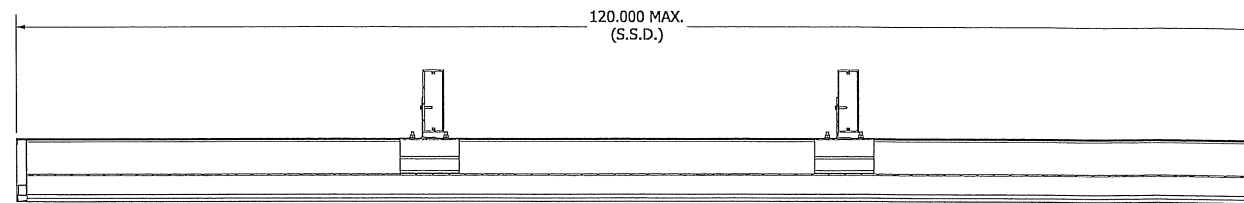
JEFFREY DEVON SMITH, P.E.
NO. 91182

NOTES:
- DOUBLE ANGLE SHOULD BE USED IF MIN. WALL DEPTHS FOR STANDARD & REVERSE ANGLE IS NOT MET.
- ** COUNTERSUNK VARIANT MAY BE USED FOR ONLY KWIK HUS EZ & HILTI KWIK CON ±. ALSO, WASHERS ARE NOT NEEDED FOR COUNTERSUNK VARIANTS.

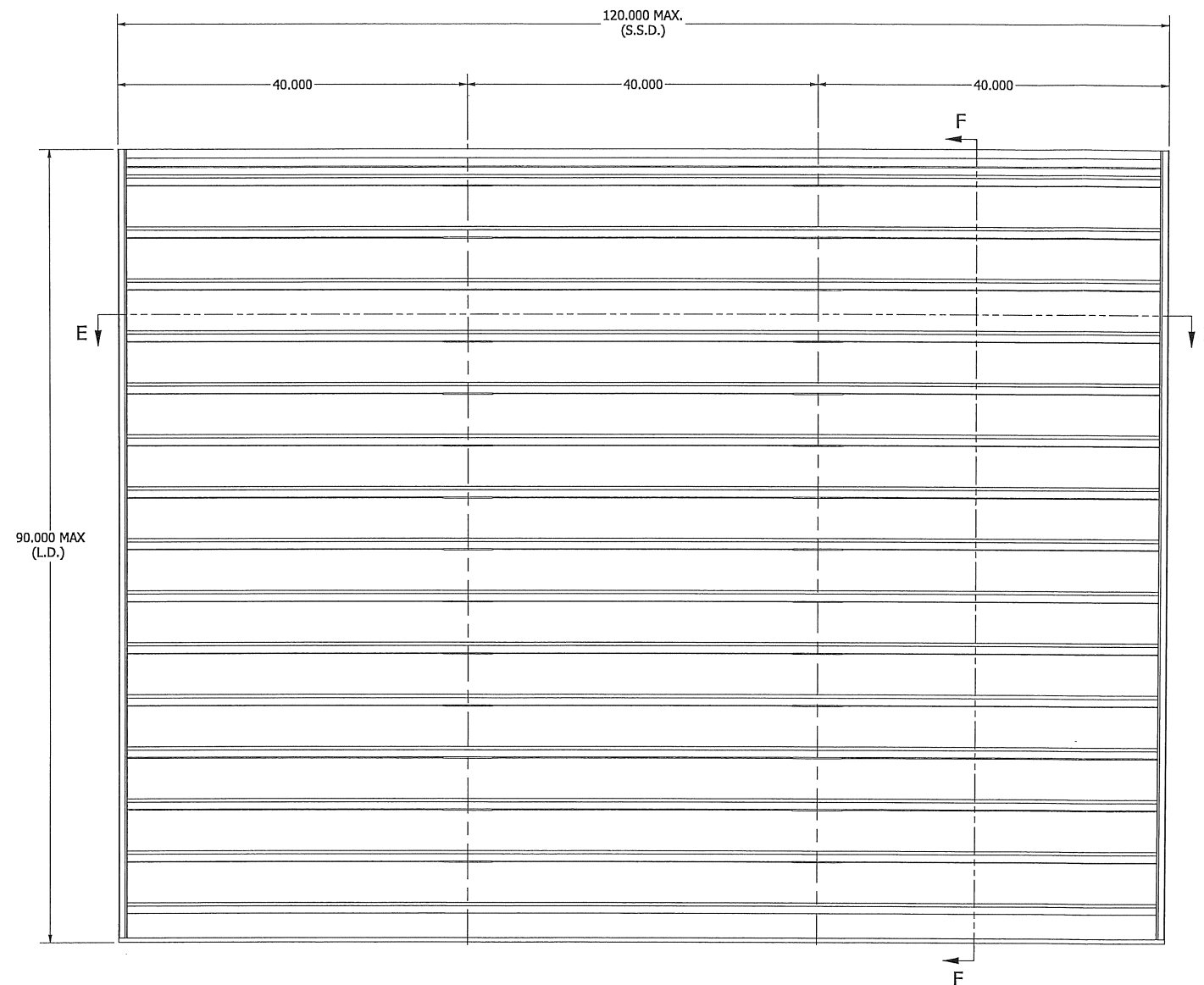
UNLESS OTHERWISE SPECIFIED, USE STD. ENGINEERING TOLERANCES PER WIQ-007

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED			PRODUCT			
MATERIAL			ELF6375DXD			
			TITLE			
			ASSEMBLY "A" - UNIVERSAL SLEEVE INSTALL & WALL FASTENER TABLE			
			SIZE	DWG NO		REV
			D	60-022277-00B		J
ECN	XXXXX		SCALE	NONE	INVENTOR	SHEET 5 OF 32

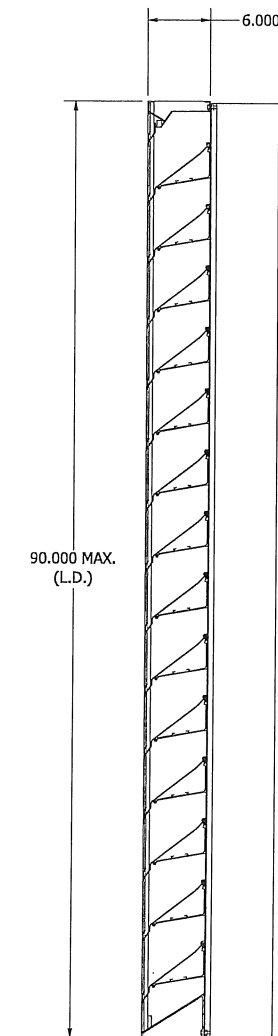
100PSF WINDLOAD - PERIMETER ATTACHMENT



SECTION E-E



ASSEMBLY "B" - SINGLE SECTION VIEW-FOR WINDLOAD-100PSF PERIMETER ATTACHMENT
MAX. SHIP SECTION - 120.000" W X 90.000" H

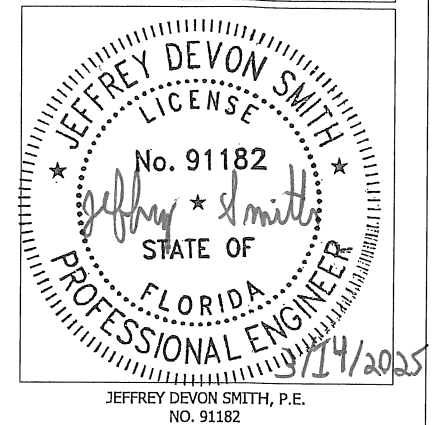



SECTION F-F

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Expiration Date 07/09/2026

By *R. Funn*
Miami-Dade Product Control



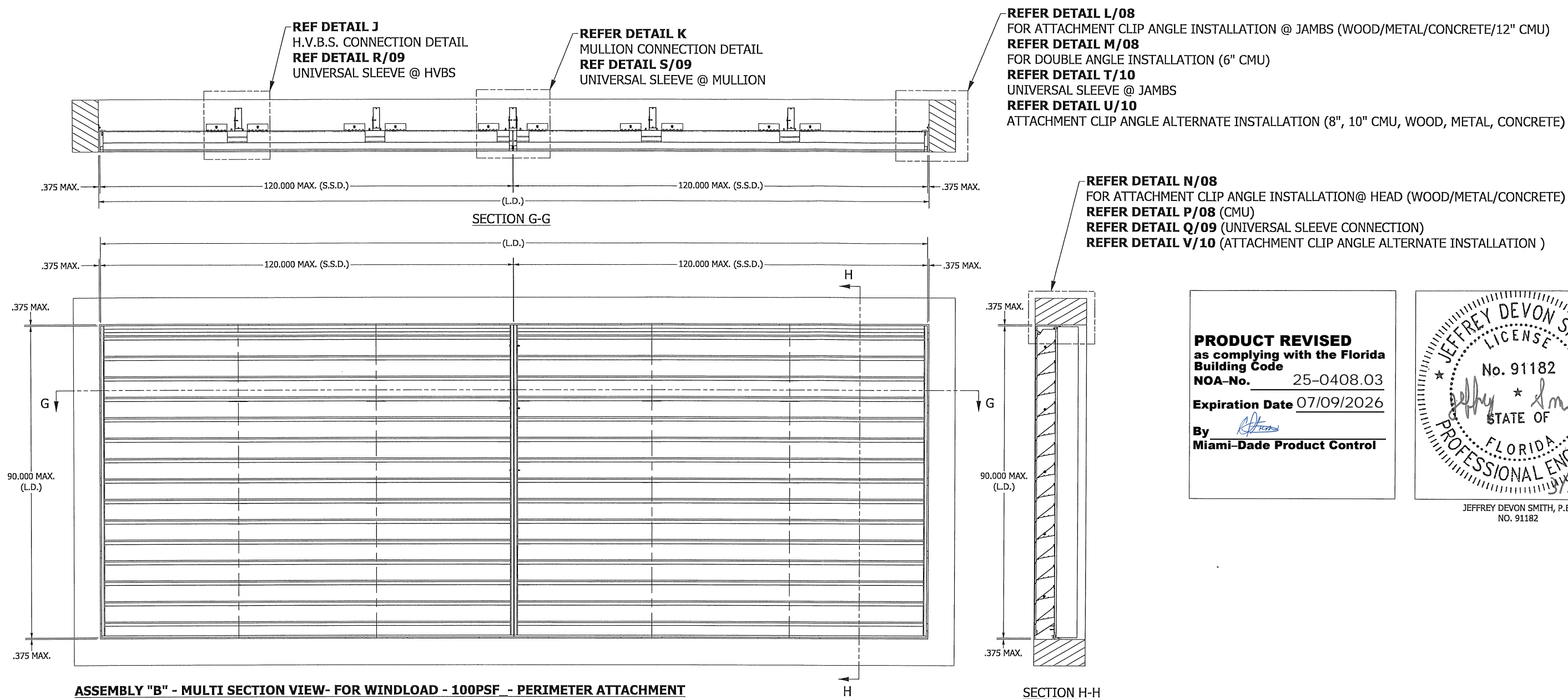
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/02/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED			AUTHORITY IN AIR CONTROL ELFG375DXD			
MATERIAL	TITLE		ASSEMBLY "B" - BASIC ASSEMBLY - 100PSF (PERIMETER ATTACHMENT)			
	SIZE	DWG NO	60-022277-00B			
	SCALE	INVENTOR	SHEET 6 OF 32			
ECN	XXXXX	DATE	NONE			

NOTE :

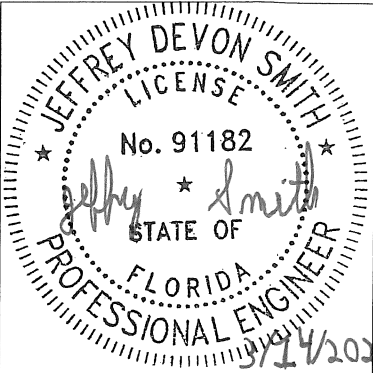
THIS LOUVER SYSTEM IS APPROVED FOR PERIMETER ATTACHMENT AND APPLICATION WITH DESIGN PRESSURE +/-100PSF, MAXIMUM SINGLE SECTION SIZE IS 120" WIDE X 90" HIGH, UNLIMITED WIDTH X 90" HIGH

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ENGINEERING TOLERANCES PER WIQ-007

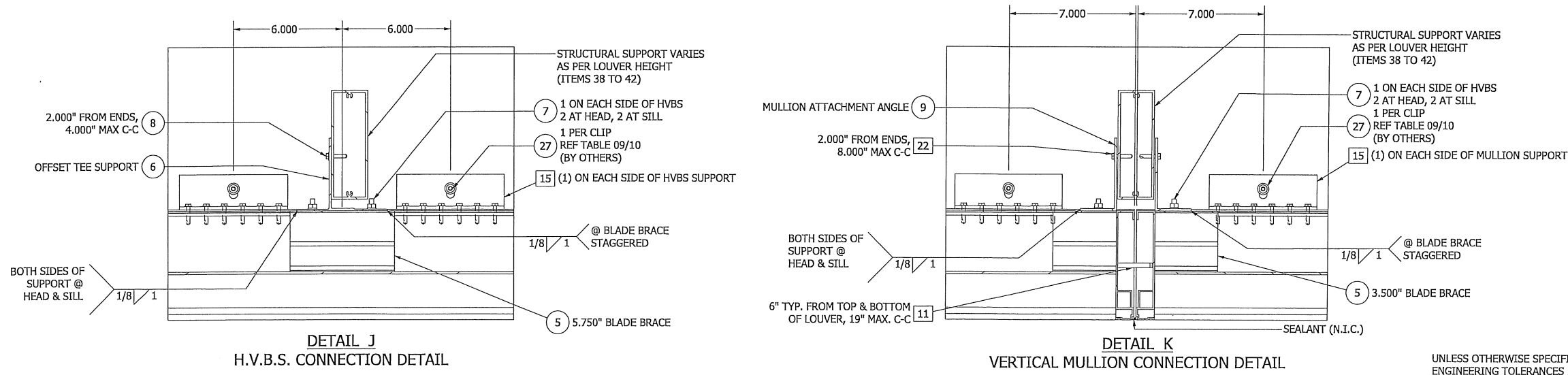
100PSF WINDLOAD - PERIMETER ATTACHMENT



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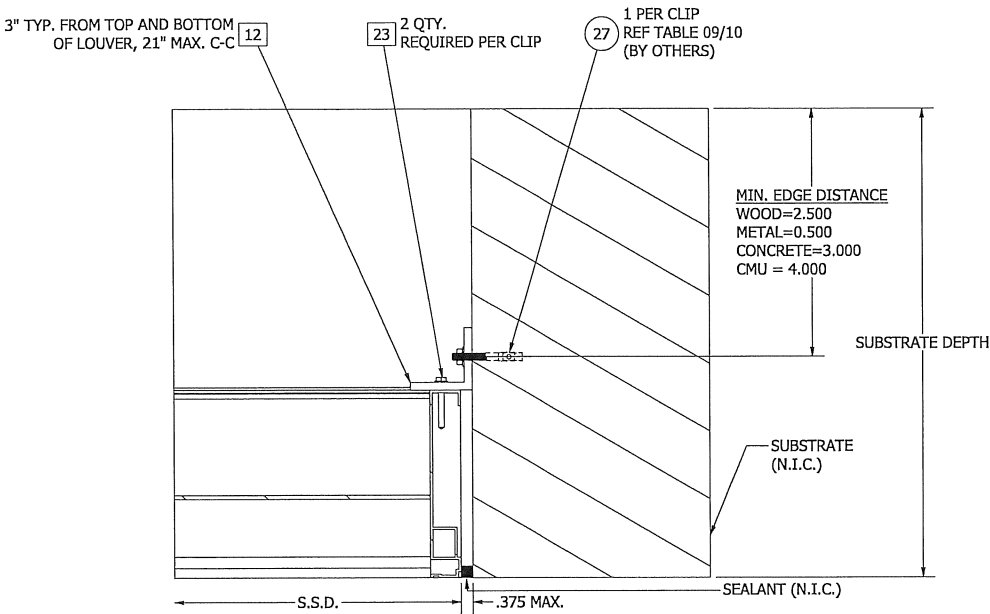
JEFFREY DEVON SMITH, P.E.
NO. 91182



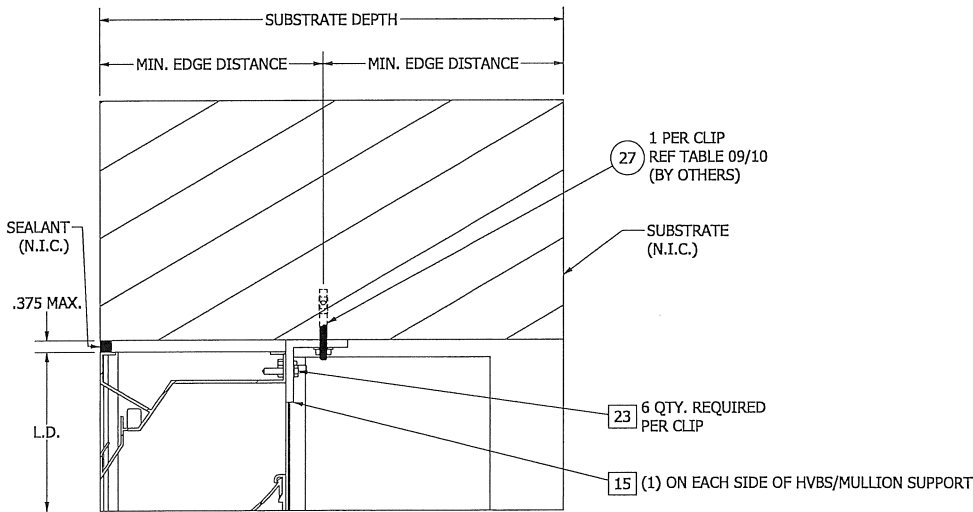
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012				
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
MATERIAL						
PRODUCT	ELF6375DXD					
TITLE	ASSY "B" - MULTI SECTION ASSEMBLY & DETAILS - 100 PSF (PERIMETER ATTACHMENT)					
SIZE	D	DWG NO	60-022277-00B		REV	J
SCALE	NONE	INVENTOR			SHEET	7 OF 32

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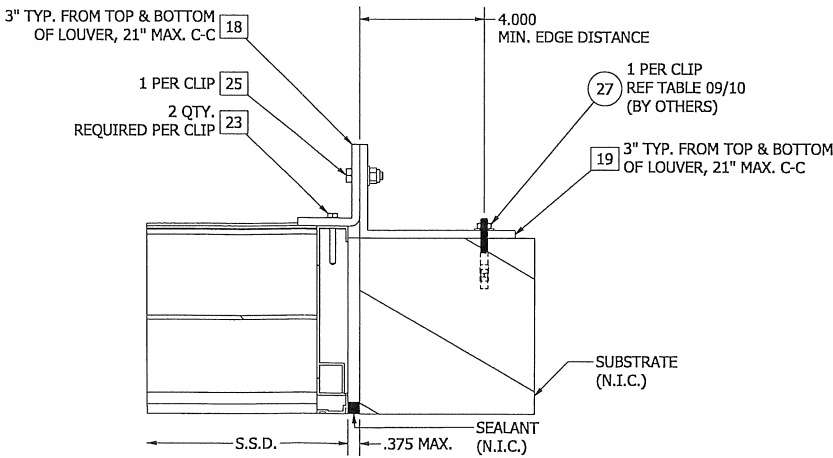
100PSF WINDLOAD - PERIMETER ATTACHMENT



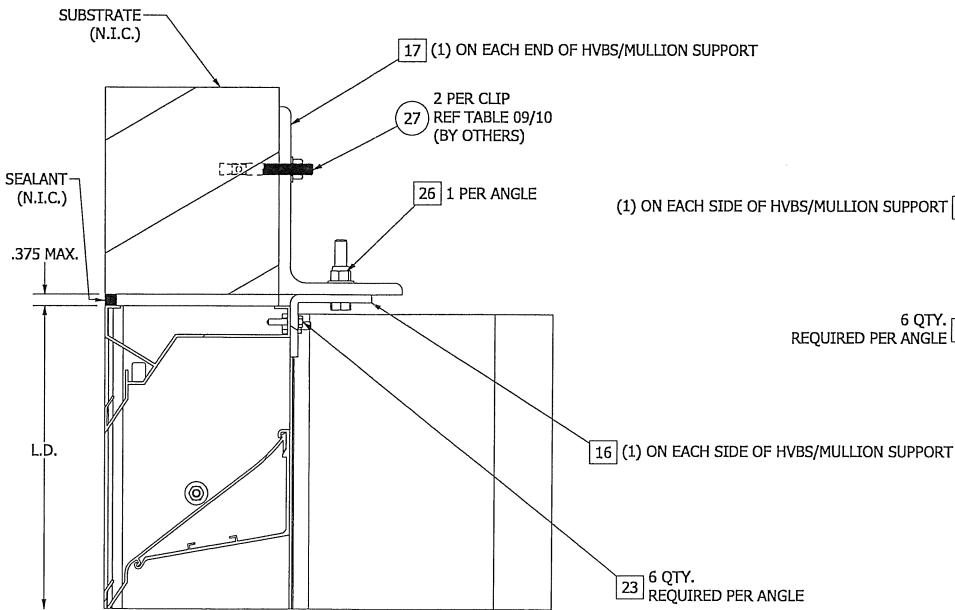
DETAIL L
ATTACHMENT CLIP ANGLE INSTALLATION @ JAMB FRAME



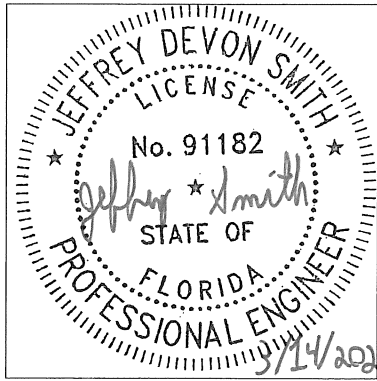
DETAIL N
ATTACHMENT CLIP ANGLE INSTALLATION @ HEAD FRAME (SILL SIMILAR)
(WOOD, METAL & CONCRETE SUBSTRATE ONLY)



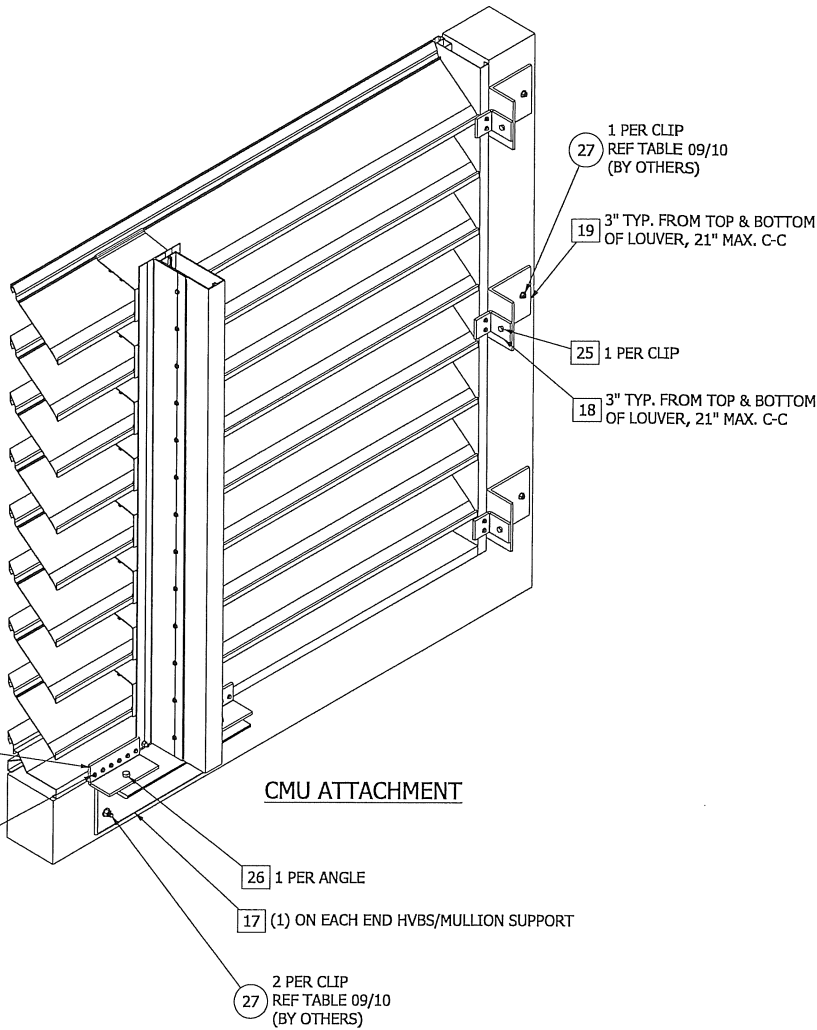
DETAIL M
ATTACHMENT CLIP ANGLE INSTALLATION @ JAMB FRAME
(GROUT-FILLED CMU)




DETAIL P
ATTACHMENT CLIP ANGLE INSTALLATION @ HEAD FRAME (SILL SIMILAR)
(GROUT FILLED CMU)



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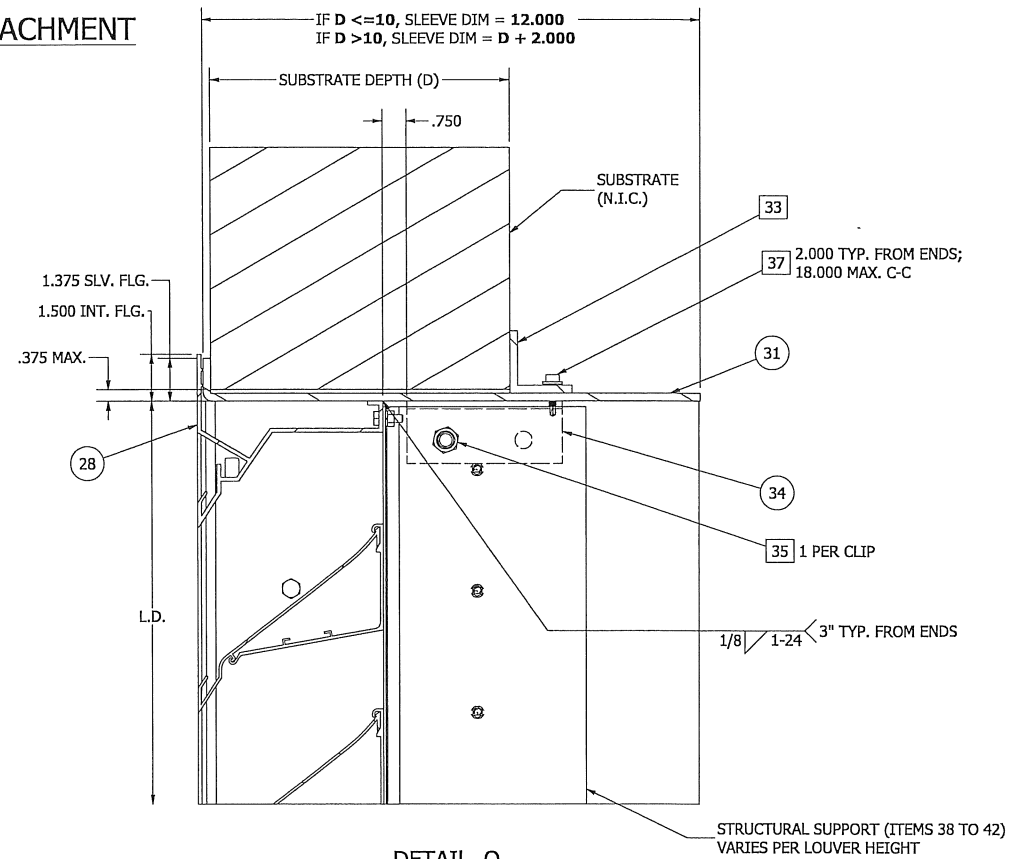


CMU ATTACHMENT

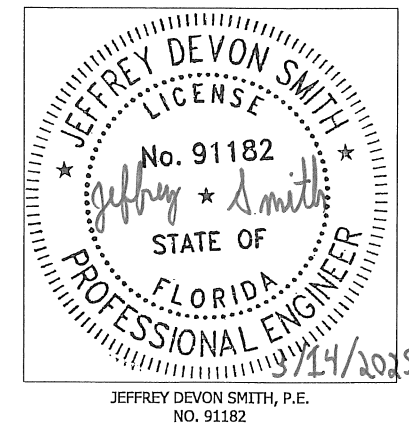
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012				
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED			PRODUCT			
MATERIAL			ELF6375DXD			
			TITLE			
			ASSEMBLY "B" - CMU / NON-CMU INSTALL			
			SIZE	DWG NO	60-022277-00B	REV J
			SCALE	NONE	INVENTOR	SHEET 8 OF 32

UNLESS OTHERWISE SPECIFIED, USE STD.
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100PSF WINDLOAD - PERIMETER ATTACHMENT



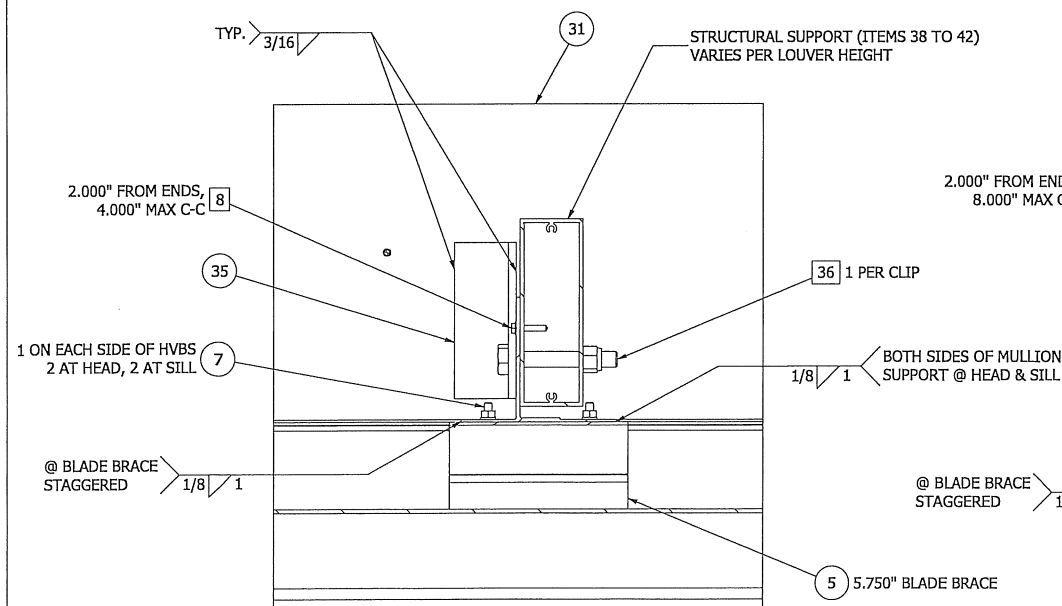
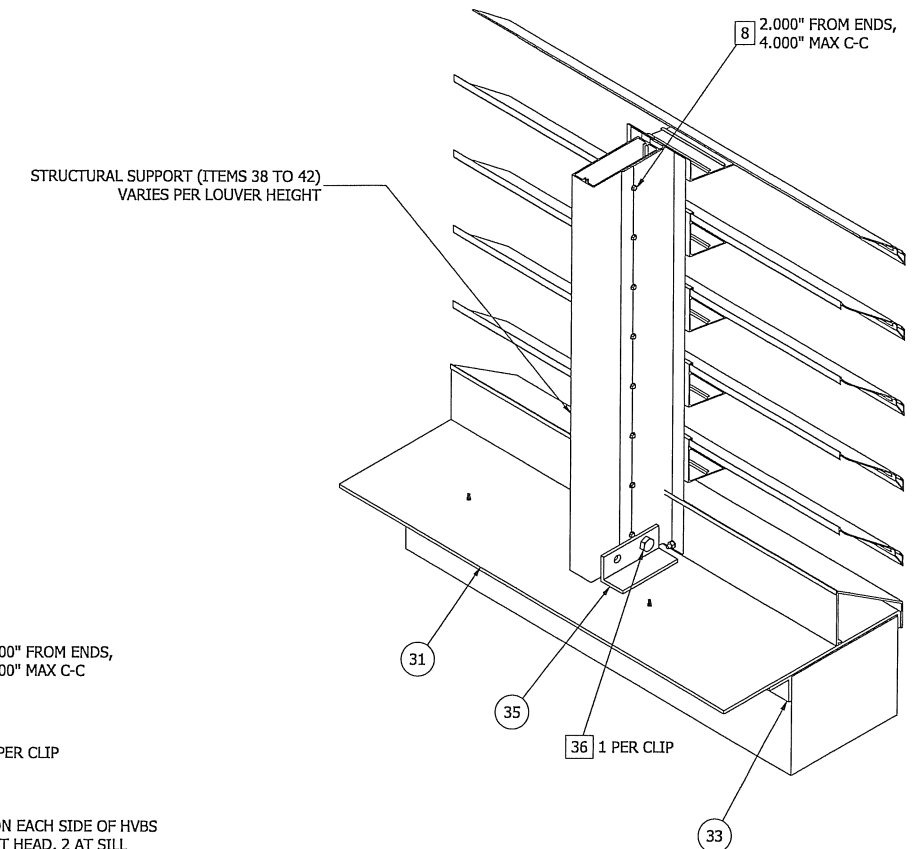
DETAIL Q
UNIVERSAL SLEEVE CONNECTION DETAIL
(HEAD FRAME SHOWN, SILL FRAME SIMILAR)



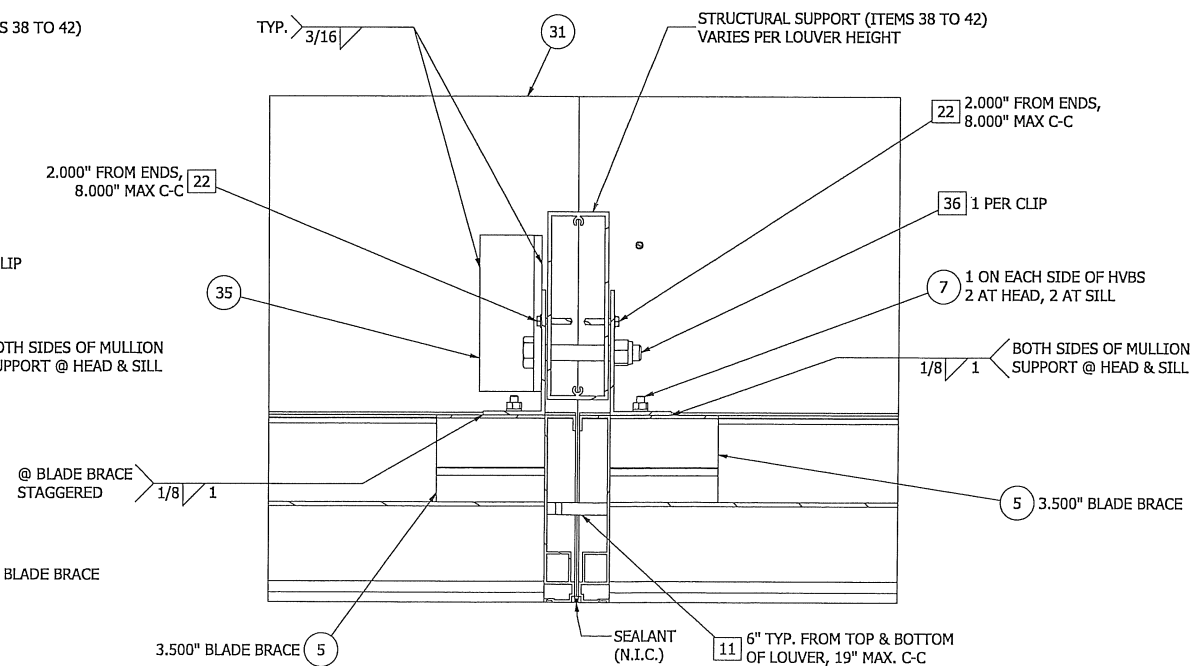
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Miami-Dade Product Control



DETAIL R
UNIVERSAL SLEEVE SUPPORT ATTACHMENT ANGLE
INSTALLATION DETAIL @ HVBS

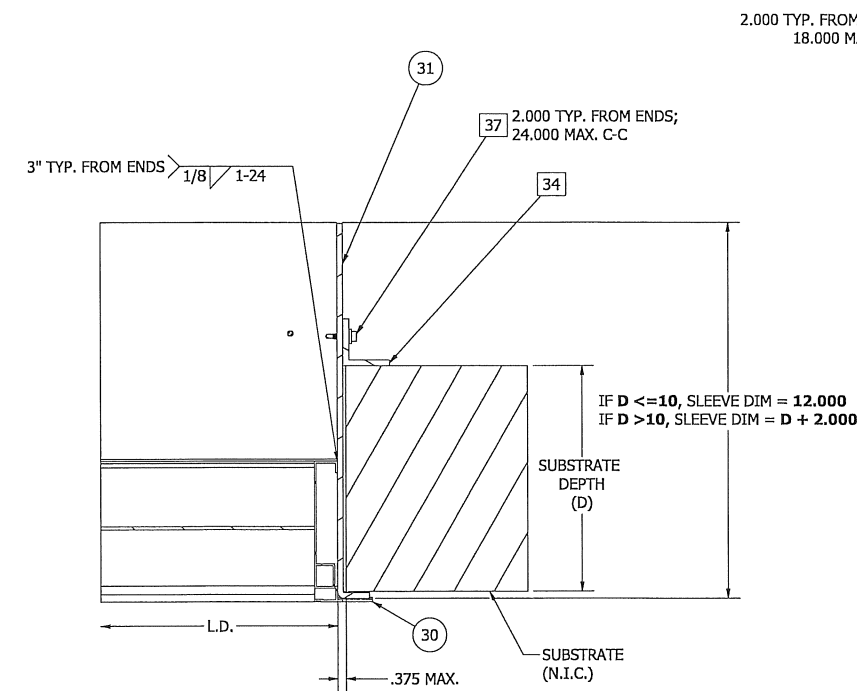


DETAIL S
UNIVERSAL SLEEVE SUPPORT ATTACHMENT ANGLE
INSTALLATION DETAIL @ MULLIONS

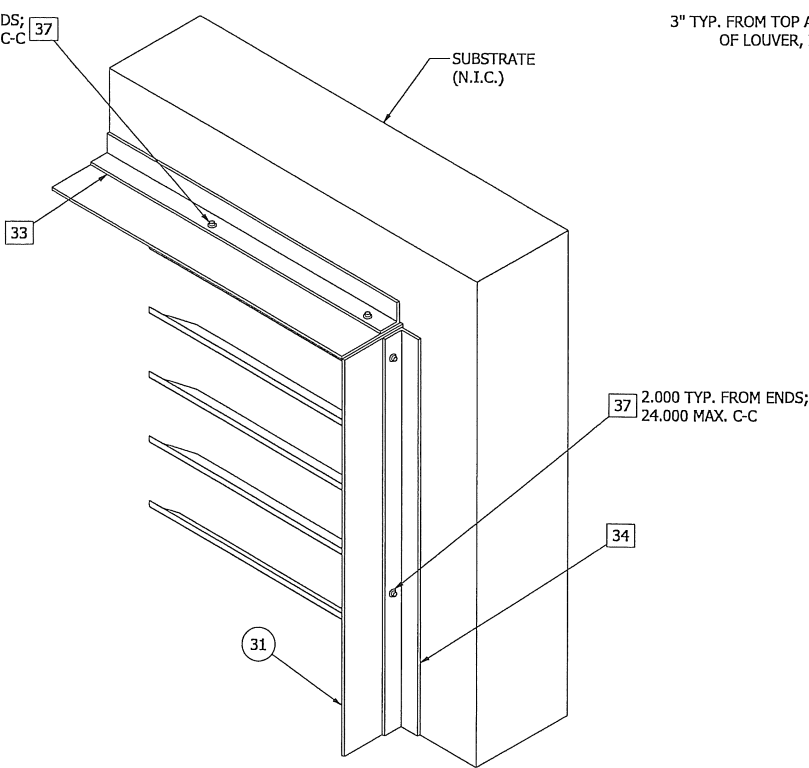
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 RUSKIN AUTHORITY IN AIR CONTROL 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED						
MATERIAL	TITLE		ELF637SDXD			
			ASSEMBLY "B" - NONSAL SLEEVE INSTALL			
SIZE D			DWG NO			REV J
			60-022277-00B			
ECN	XXXXXX	SCALE	NONE		INVENTOR	SHEET 9 OF 32

UNLESS OTHERWISE SPECIFIED, USE STD.
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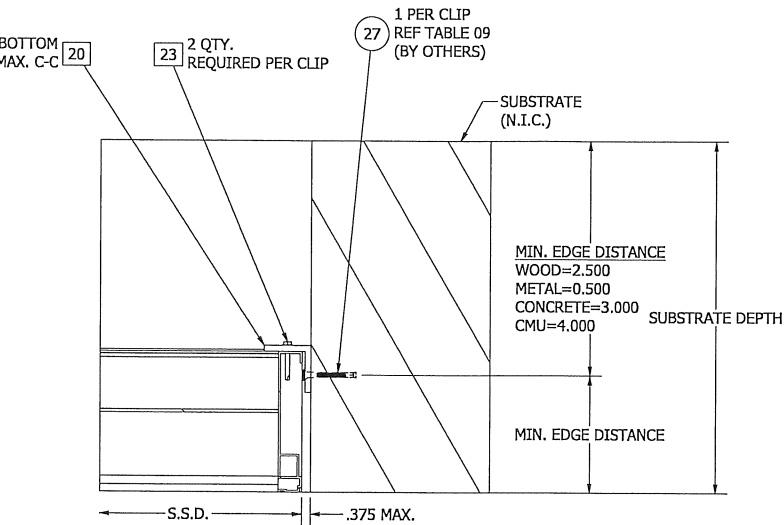
100PSF WINDLOAD - PERIMETER ATTACHMENT



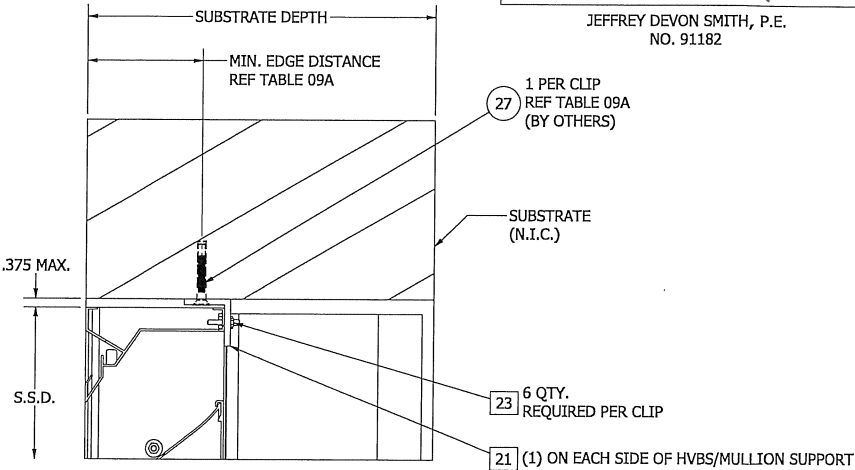
DETAIL T
UNIVERSAL SLEEVE CONNECTION DETAIL @ JAMBS



UNIVERSAL SLEEVE ATTACHMENT



DETAIL U
ATTACHMENT CLIP ANGLE INSTALLATION @ JAMB FRAME
IN REVERSE DIRECTION (ALTERNATE CONNECTION)



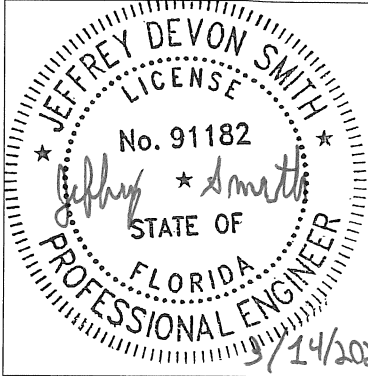
DETAIL V
ATTACHMENT CLIP ANGLE INSTALLATION @ HEAD FRAME
(SILL SIMILAR) (ALTERNATE CONNECTION)
(WOOD, METAL & CONCRETE SUBSTRATE ONLY)

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Expiration Date 07/09/2026

By *[Signature]*
Miami-Dade Product Control



JEFFREY DEVON SMITH, P.E.
NO. 91182

TABLE 09 - ELF6375DXD - WALL FASTENER TABLE (N.I.C.) - FOR PERIMETER ATTACHMENT-100 PSF - ITEM 27

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	LOCATION	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE (STANDARD/REVERSE)
WOOD	SPECIFIC GRAVITY = 0.4	JAMB	1/4" Ø BOLT, WASHER & LOCKNUT	NA	2 1/2"
		HEAD/SILL	3/8" Ø A307 BOLT, WASHER & LOCKNUT	NA	2 1/2"
STEEL & ALUMINUM	STEEL - MIN. 12 GA ALUM. - MIN. 3/16" THICK	JAMB	1/4" Ø A307 BOLT OR TEK SCREW	NA	1/2"
		HEAD/SILL	3/8" Ø A307 BOLT, LOCKNUT & WASHER	NA	3/4"
CONCRETE	3000 MIN. COMPRESSIVE STRENGTH (UNCRACKED)	JAMB	1/4" Ø X 2 1/4" HILTI KWIK BOLT 3 W WASHER**	2"	3"
	4000 MIN. COMPRESSIVE STRENGTH (UNCRACKED)	HEAD/SILL	1/2" Ø HILTI KWIK BOLT 3 EXPANSION ANCHORS	3 1/4"	4"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH. (UNCRACKED)	JAMB (SINGLE ANGLE)	1/4" Ø X 3" HILTI KWIK HUS EZ W/ WASHER**	2 1/2"	4"
		JAMB (DOUBLE ANGLE)	1/4" Ø X 3" HILTI KWIK HUS EZ	2 1/2"	4"
		HEAD/SILL (DOUBLE ANGLE)	3/8" Ø HILTI KWIK HUS EZ SCREW ANCHORS	2 1/2"	4"

NOTES:
- DOUBLE ANGLE SHOULD BE USED IF MIN. WALL DEPTHS FOR STANDARD & REVERSE ANGLE IS NOT MET.
- ** COUNTERSUNK VARIANT MAY BE USED FOR ONLY KWIK HUS EZ & HILTI KWIK CON II +. ALSO, WASHERS ARE NOT NEEDED FOR COUNTERSUNK VARIANTS.

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012				
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
MATERIAL						
PRODUCT	ELF6375DXD					
TITLE	ASSEMBLY "B" - UNIVERSAL SLEEVE, ALTERNATE CLIP INSTALL & WALL FASTENER TABLE					
SIZE	D	DWG NO	60-022277-00B			
ECN	XXXXX	SCALE	NONE	INVENTOR		SHEET 10 OF 32

UNLESS OTHERWISE SPECIFIED, USE STD. ENGINEERING TOLERANCES PER WIQ-007

HEAD FRAME ITEM #01 (TABLE-01)
RUSKIN #70-024024-00B

SILL FRAME ITEM #02 (TABLE-01)
RUSKIN #70-024025-00B

JAMB FRAME ITEM #03
RUSKIN #70-020382-00B

BLADE ITEM #04
RUSKIN #70-020560-00B

BLADE BRACE ITEM #05
RUSKIN #70-020568-00B

HEAD FRAME ITEM #01 (TABLE-02)
RUSKIN #70-020578-00B

SILL FRAME ITEM #02 (TABLE-02)
RUSKIN #70-021130-00B

ATTACHMENT CLIP ANGLE ITEM #12
RUSKIN #85-022012-00B
(WOOD/METAL/CONCRETE/12" CMU)

ALTERNATE ATTACHMENT CLIP ANGLE ITEM #15
RUSKIN #85-023260-00B
(WOOD/METAL/CONCRETE)

OFFSET TEE SUPPORT FOR BLADE ITEM #06
RUSKIN # 70-024309-00B

MULLION SUPPORT ATTACHMENT ANGLE ITEM#09
RUSKIN #A1139

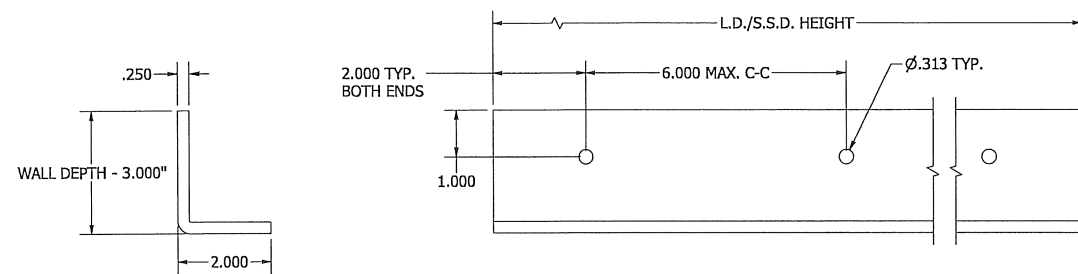
SPLICE PLATE ITEM #10
RUSKIN # 85-021546-00B

JEFFREY DEVON SMITH, P.E.
NO. 91182

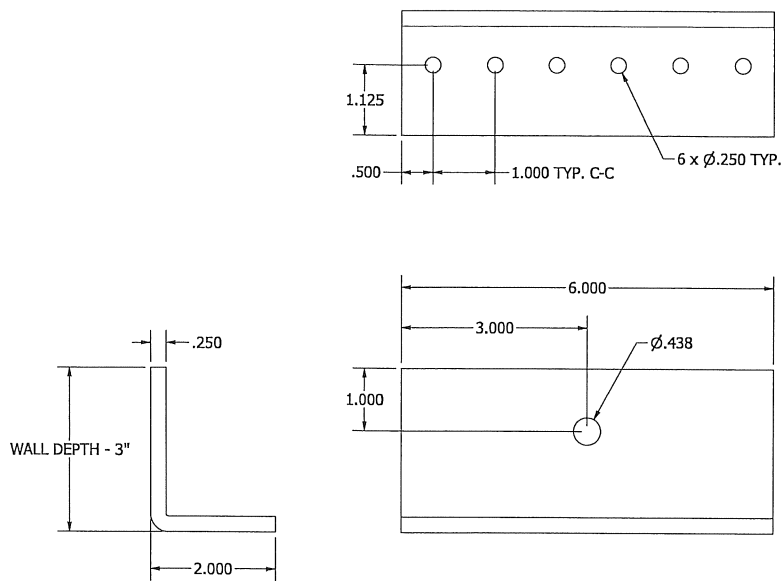
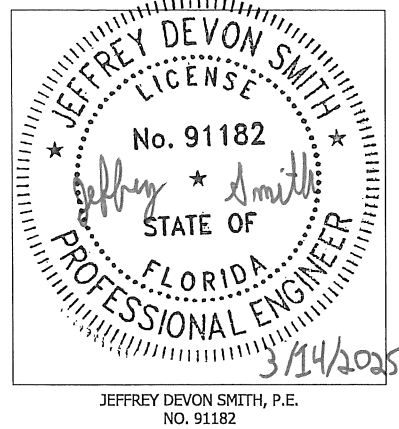
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03
Expiration Date 07/09/2026
By *[Signature]*
Miami-Dade Product Control

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
MATERIAL	PRODUCT ELF6375DXD					
TITLE		ELF6375DXD - PARTS				
SIZE	D	DWG NO	60-022277-00B			REV J
SCALE	NONE		INVENTOR	SHEET 11 OF 32		

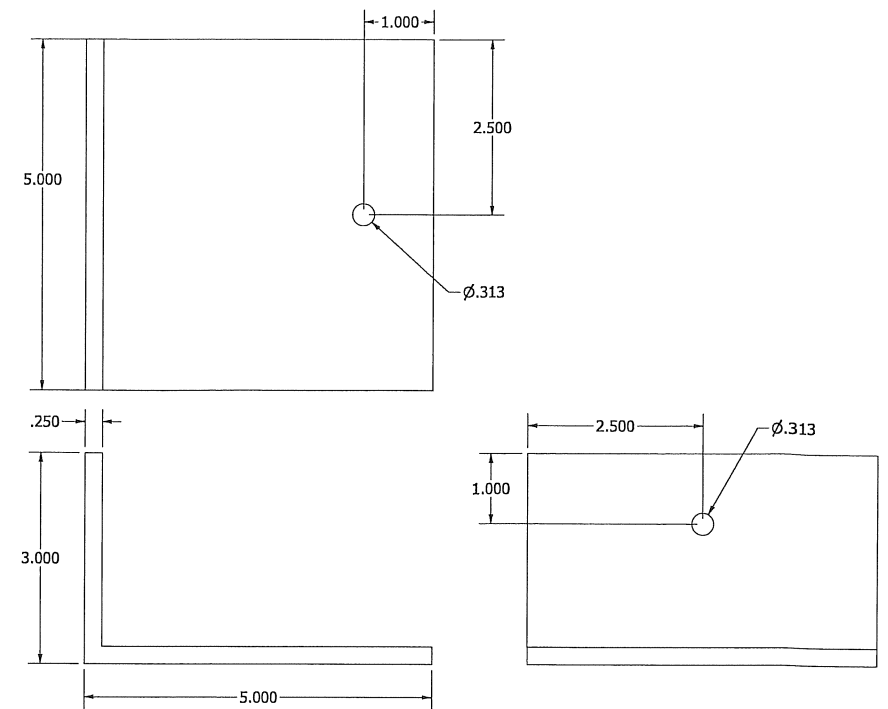
UNLESS OTHERWISE SPECIFIED, USE STD. ENGINEERING TOLERANCES PER WIQ-007



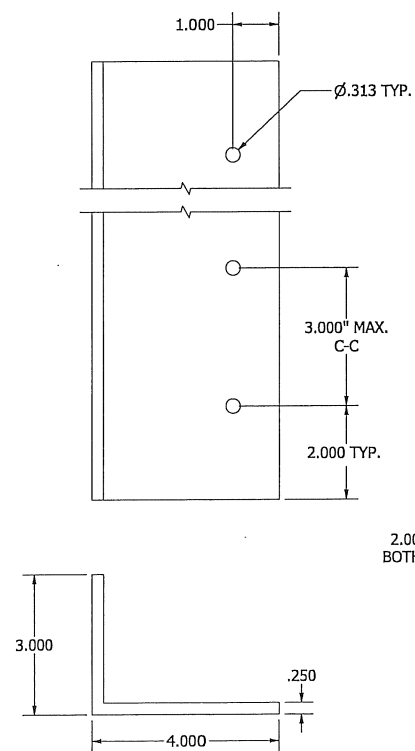
CONT. FORMED ANGLE ITEM #13
RUSKIN #85-023257-00B
(6, 8 & 10 IN GROUT-FILLED CMU)




ATTACHMENT CLIP ANGLE - FORMED ITEM #16
RUSKIN #85-023252-00B
(6, 8, 10 & 12 IN GROUT-FILLED CMU)

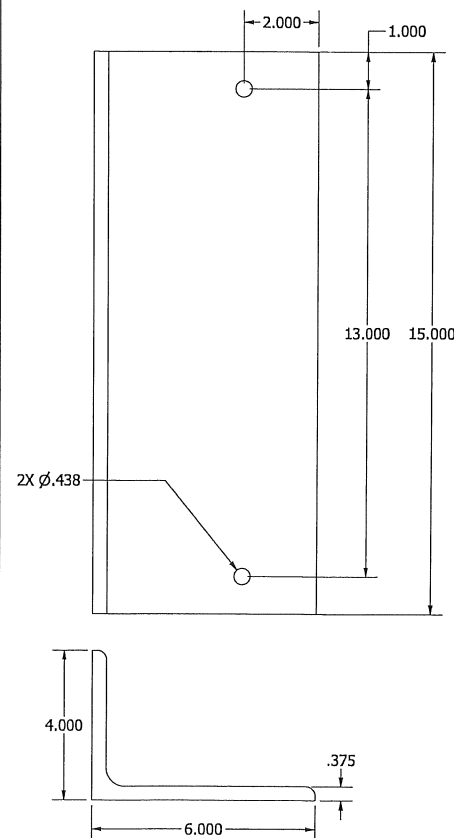
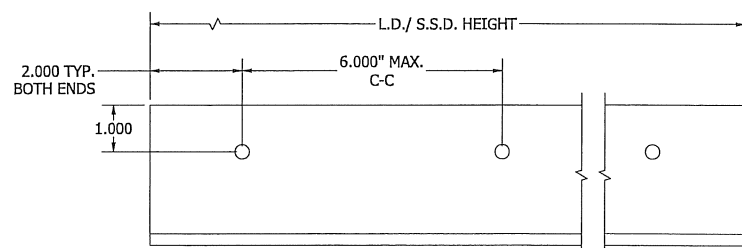


ATTACHMENT ANGLE (CMU) ITEM #19
RUSKIN #85-023253-00B
(6, 8 & 10 IN GROUT-FILLED CMU)

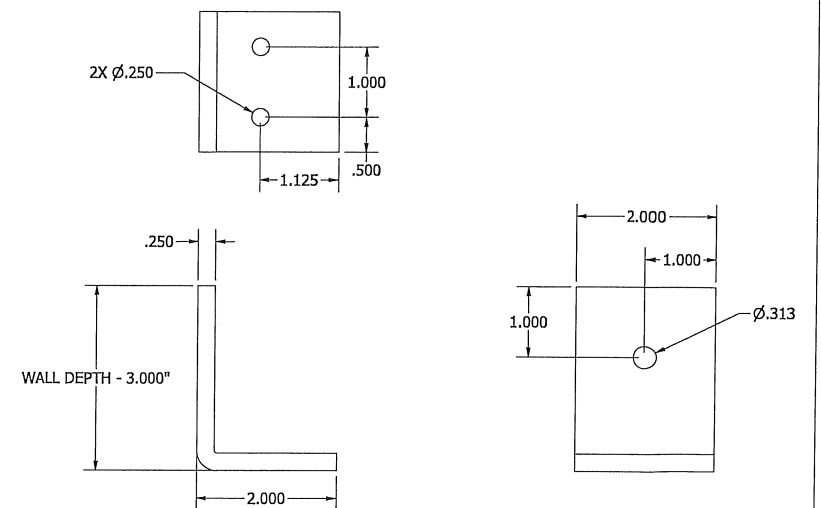
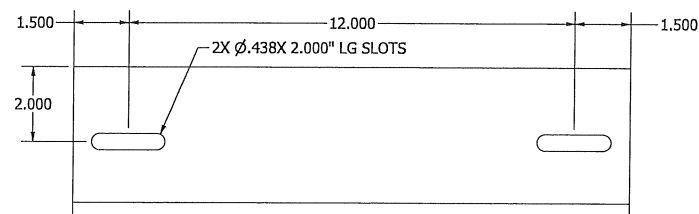


CONT. ATTACHMENT ANGLE ITEM #14
RUSKIN #85-023258-00B


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Building Code
NOA-No. 25-0408.03
Expiration Date 07/09/2026
By 
Miami-Dade Product Control



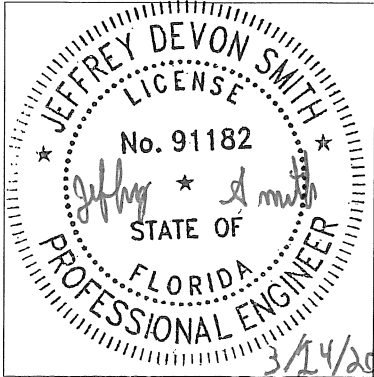
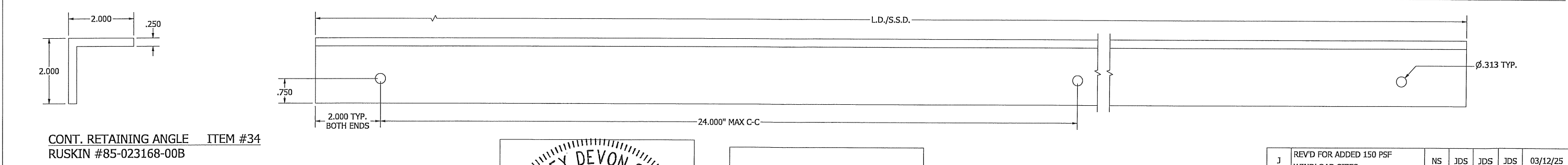
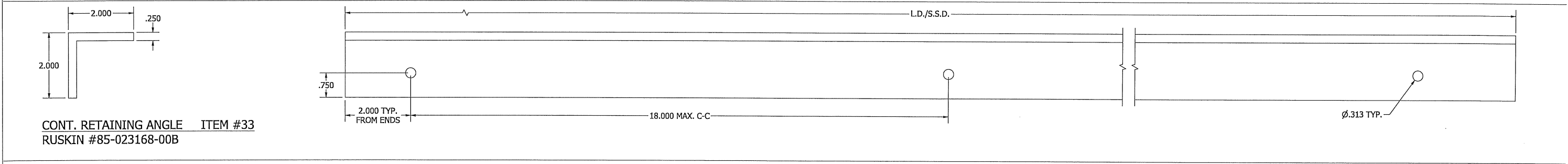
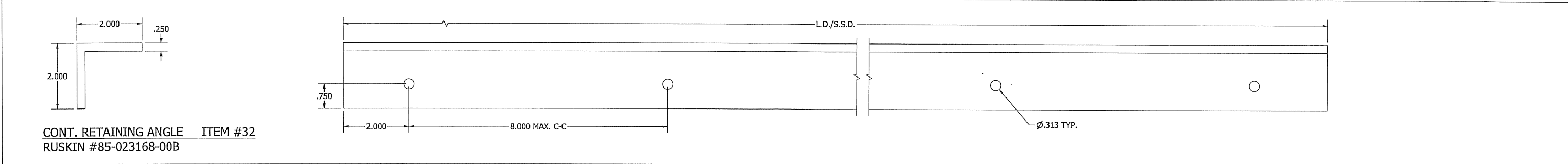
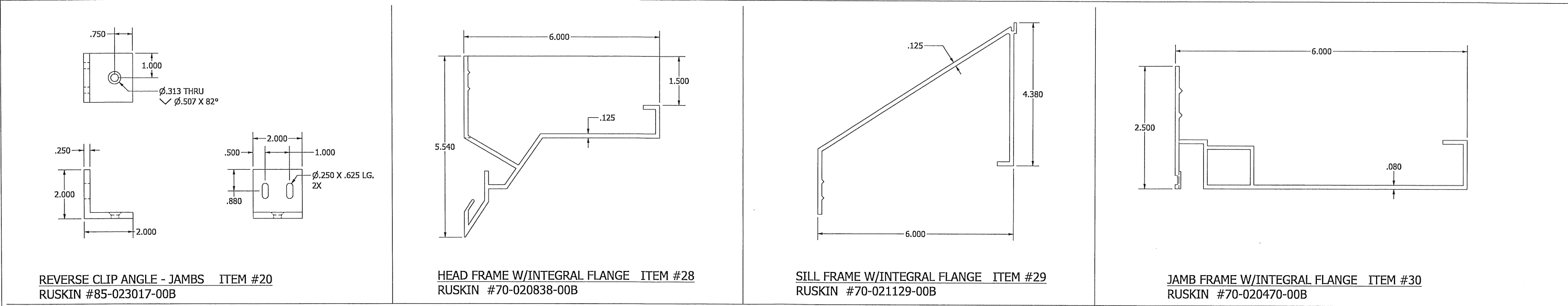
STRUCTURAL ATTACHMENT ANGLE, 15" LG. ITEM #17
 RUSKIN #85-023251-00B
 (6, 8, 10 & 12 IN GROUT-FILLED CMU)



ATTACHMENT CLIP ANGLE - FORMED ITEM #18
RUSKIN #85-023250-00B
(6, 8, 10 IN GROUT-FILLED CMU)

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Court Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED						
MATERIAL			PRODUCT ELF6375DXD TITLE ELF6375DXD - PARTS - 100PSF			
		SIZE D	DWG NO 60-022277-00B			REV J
ECN	XXXXX	SCALE	NONF		INVENTOR SHEET 12 OF 32	

UNLESS OTHERWISE SPECIFIED, USE STD.
ENGINEERING TOLERANCES PER WIQ-007




JEFFREY DEVON SMITH, P.E.
NO. 91182

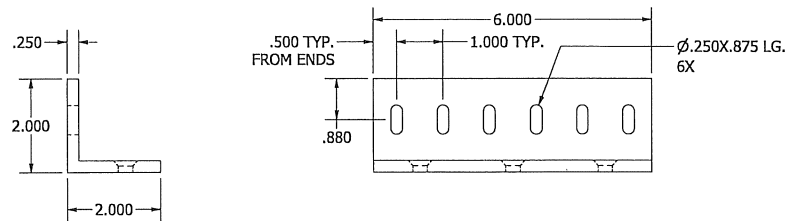
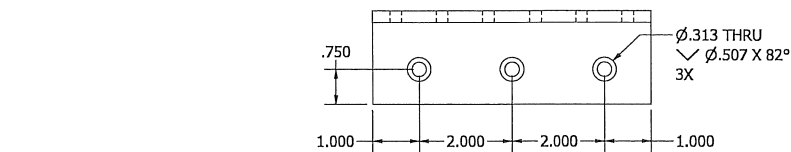
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03

Expiration Date 07/09/2026

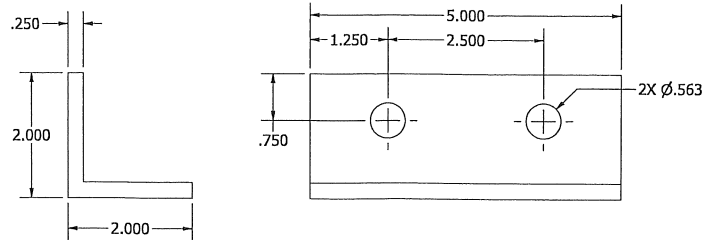
By *[Signature]*
Miami-Dade Product Control

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES		NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD		RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION		BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 RUSKIN AUTHORITY IN AIR CONTROL		3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL		
CHECKED	DRP	3/23/2012					
APPROVED	DRP	3/23/2012					
APPROVED			PRODUCT		ELF637SDXD		
MATERIAL			TITLE				
			ELF637SDXD - PARTS - 100PSF				
			SIZE D		DWG NO		REV J
					60-022277-00B		
ECN XXXXX			SCALE NONE		INVENTOR		SHEET 13 of 32

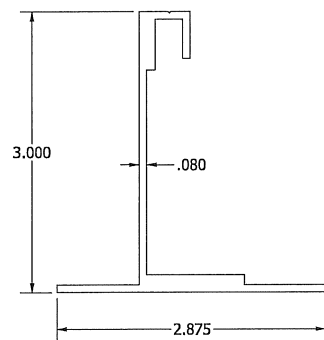
UNLESS OTHERWISE SPECIFIED, USE STD.
ENGINEERING TOLERANCES PER WIQ-007



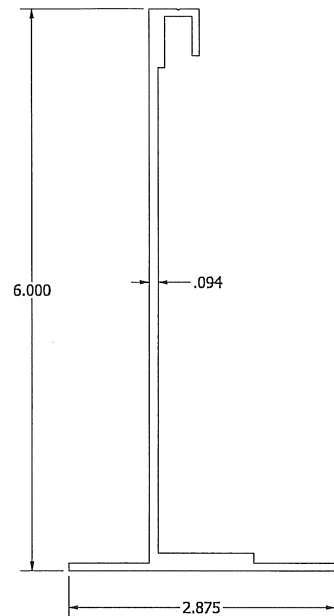
ATTACHMENT ANGLE ITEM #21
RUSKIN #TBD



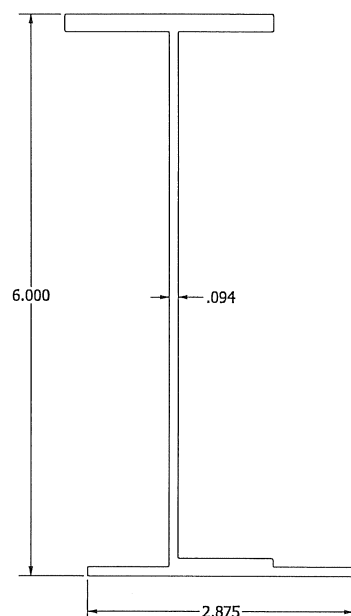
US - SUPPORT ATTACHMENT ANGLE ITEM #35
RUSKIN #85-023256-00B



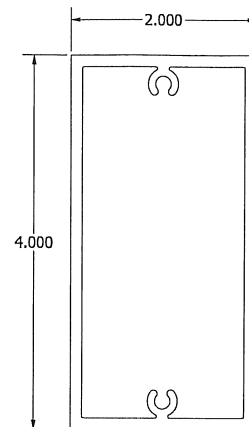
3" DOUBLE FLANGE
ITEM #38



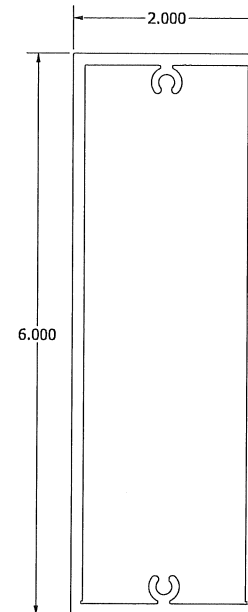
6" DOUBLE FLANGE
ITEM #39



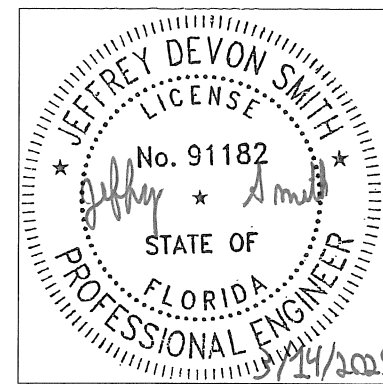
6" I SHAPE
ITEM #40



2 X 4 X 1/8" TUBE SUPPORT
ITEM #41

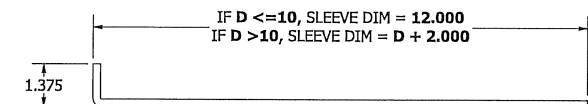


2 X 6 X 1/8" TUBE SUPPORT
ITEM #42



JEFFREY DEVON SMITH, P.E.
NO. 91182

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FRONT FLANGE UNIVERSAL SLEEVE
ITEM #31

TABLE 9A - ELF6375DXD - WALL FASTENER TABLE (N.I.C.) - FOR HEAD/SILL COUNTERSUNK ATTACHMENT - 100PSF - ITEM 27

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	FASTENER QTY. PER 6" LG. ANGLE
STEEL	MIN 14 GA	1/4"-20 A307 GRADE A BOLT, W/WASHER & LOCKNUT	N/A	1/2"	3
	MIN 12 GA	1/4"-20 A307 GRADE A SCREW	N/A	1/2"	3
ALUMINUM	MIN 1/8" THICK	1/4"-20 A307 GRADE A BOLT, W/WASHER & LOCKNUT	N/A	1/2"	3
	MIN 3/16" THICK	1/4"-20 A307 GRADE A SCREW	N/A	1/2"	3
CONCRETE	4000 PSI MIN. COMP. STRENGTH (UNCRACKED)	1/4" DIA HILTI KWIK BOLT 3 EXPANSION ANCHOR	1 1/2"	4"	2

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012				
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012	PRODUCT			
MATERIAL		TITLE		ELF6375DXD - PARTS & WALL FASTENER TABLE - 100PSF		
		SIZE	D	DWG NO	60-022277-00B	REV J
UNLESS OTHERWISE SPECIFIED, USE STD. ENGINEERING TOLERANCES PER WIQ-007		SCALE	NONE	INVENTOR	SHEET 14 OF 32	

UNLESS OTHERWISE SPECIFIED, USE STD.
ENGINEERING TOLERANCES PER WIQ-007

TABLE 10 - PARTS LIST FOR 150PSF ELF6375DXD			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
1	HEAD FRAME	0.080" THK. EXTRUDED ALUM.	6063-T6
2	SILL FRAME	0.125" THK. EXTRUDED ALUM.	6063-T6
3	JAMB FRAME	0.080" THK. EXTRUDED ALUM.	6063-T6
4	DRAINABLE BLADE	0.080" THK. EXTRUDED ALUM.	6063-T6
5	BLADE BRACE	0.100" THK. EXTRUDED ALUM.	6063-T6
6	OFFSET TEE SUPPORT FOR BLADE	0.125" THK EXTRUDED ALUM.	6063-T6
7	1/4-20 X 3/4" HHB W LOCK WASHER AND HEX NUT	PLTD STL	
8	SCREW 1/4"-14 X 1 1/2" LG HWH TEK3	410 SS/ZC	

TABLE 11 - MULTI-SECTION CONNECTION PARTS			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
9	MULLION ATTACHMENT ANGLE	0.125" THK EXTRUDED ALUM.	6063-T6
10	FSNR KIT 3/8-16X3"LG W LOCKNUT	ZINC PLATED	-

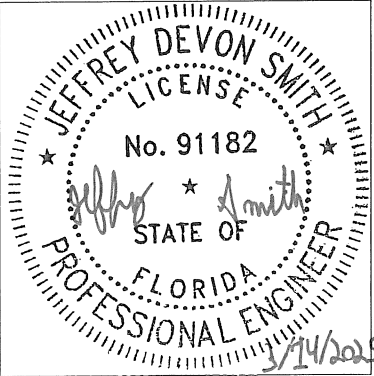
TABLE 12 - INSTALLATION PARTS (SHIP LOOSE) - 150 PSF WINDLOAD			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
11	CLIP ANG 2 X 2 X 1/4 X 6" LG PUNCHED STD	.25" THK. EXTRUDED ALUM.	6063-T6
12	CLIP ANG 2 X 2 X 1/4 X 6" LG PUNCHED CNTRS NK	.25" THK. EXTRUDED ALUM.	6063-T6
13	CLIP ANG 2 X 2 X 1/4 X 2" LG PUNCHED	.25" THK. EXTRUDED ALUM.	6063-T6
14	CLIP ANG 2 X 2 X 1/4 X 2" LG CNTRS NK	.25" THK. EXTRUDED ALUM.	6063-T6
15	STRUCTURAL ATTACHMENT ANGLE - HEAD/SILL	.375" THK. EXTRUDED ALUM.	6063-T6
16	CMU ATTACHMENT ANGLE - HEAD/SILL	.25" THK. FORMED ALUM.	3003-H14
17	CLIP ANG 2 X 2 X 1/4 X 6" LG PUNCHED STD	.25" THK. EXTRUDED ALUM.	6063-T6
18	ATTACHMENT ANGLE - JAMB	.25" THK. EXTRUDED ALUM.	6063-T6
19	CMU ATTACHMENT ANGLE - JAMB	.25" THK. FORMED ALUM.	3003-H14
20	SCREW 1/4"-14 X 1 1/2" LG HWH TEK3	410 SS/ZC PLT	
21	SCREW 1/4"-14 X 1 1/4" LG HWH TEK3	410 SS/ZC PLT	
22	SCREW 1/4"-14 X 1" LG HWH TEK3	410 SS/ZC PLT	
23	FSNR KIT 3/8-16X2"LG HHB BOLT W LOCKNUT	ZINC PLT	
24	FSNR KIT 1/4-20X1.5"LG HHB BOLT W LOCKNUT	ZINC PLT	
25	SUBSTRATE FASTENER	REF TABLE 15/23 & 16/23	

TABLE 13 - PARTS - UNIVERSAL SLEEVE INSTALL			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
26	HEAD FRAME W INTEGRAL FLANGE (FF)	.125" THK. EXTRUDED ALUM.	6063-T6
27	SILL FRAME W INTEGRAL FLANGE (FF)	.125" THK. EXTRUDED ALUM.	6063-T6
28	JAMB FRAME W INTEGRAL FLANGE (FF)	.080" THK. EXTRUDED ALUM.	6063-T6
29	UNIVERSAL SLEEVE	.190" THK. FORMED ALUM.	3003-H14
30	CONT. RETAINING ANGLE - HEAD/SILL	.25" THK. EXTRUDED ALUM.	6063-T6
31	CONT. RETAINING ANGLE - JAMBS	.25" THK. EXTRUDED ALUM.	6063-T6
32	UNIVERSAL SLEEVE ATTACHMENT ANGLE	.25" THK. EXTRUDED ALUM.	6063-T6
33	SCR 1/4X1 HWH TEK 410/ZC	410 SS/ZC PLT GR 2	
34	1/2-13 X 3.5" LG. SAE GRADE 5 HHB W/WASHER & LOCKNUT	ZINC PLT	

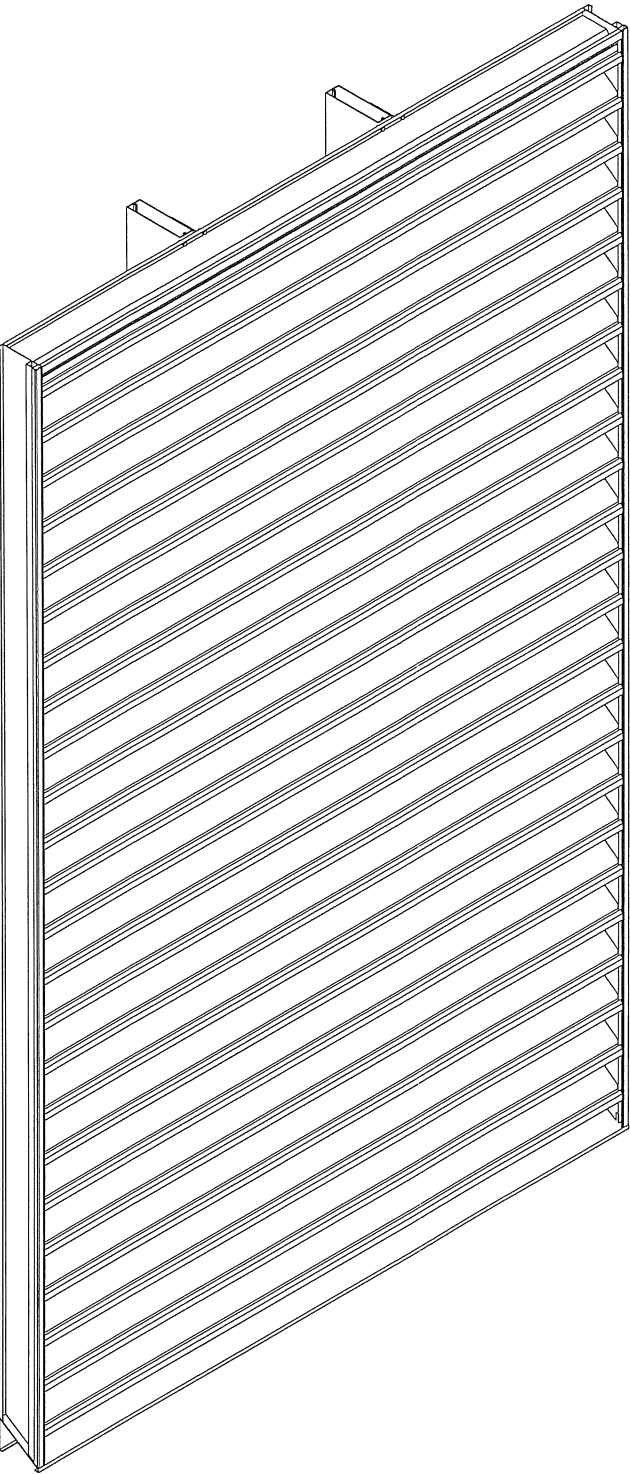
TABLE 14 - H.V.B.S. / MULLION SUPPORTS OPTIONS BASED ON SECTION HEIGHT

ITEM #	DESCRIPTION	LOUVER HEIGHT RANGE	MATERIAL	ALLOY
35	3" ALUM. H.V.B.S.	UP TO 33" TALL	EXT. ALUM.	6063-T6
36	6" ALUM. H.V.B.S.	GREATER THAN 33" TO 48"	EXT. ALUM.	6063-T6
37	6" ALUM. "I" H.V.B.S.	GREATER THAN 48" TO 63"	EXT. ALUM.	6063-T6
38	2X4 TUBE H.V.B.S.	GREATER THAN 63" TO 71"	EXT. ALUM.	6063-T6
39	2X6 TUBE H.V.B.S.	GREATER THAN 71" TO 94"	EXT. ALUM.	6063-T6
40	2X8 TUBE H.V.B.S.	GREATER THAN 94" TO 116"	EXT. ALUM.	6063-T6
41	2X8X1/4 TUBE H.V.B.S.	GREATER THAN 116" TO 144"	EXT. ALUM.	6063-T6

TABLE 15 - PARTS - ASSEMBLY D & E			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
42	CLIP ANG 2 X 2 X 1/4 X 2" LG PUNCHED	.25" THK. EXTRUDED ALUM.	6063-T6
43	CLIP ANG 2 X 2 X 1/4 X CONT. (ASSEMBLY D)	.25" THK. EXTRUDED ALUM.	6063-T6
44	CLIP ANG 2 X 2 X 1/4 X CONT. (ASSEMBLY E)	.25" THK. EXTRUDED ALUM.	6063-T6
45	CLIP ANG 2 X 2 X 1/4 X CONT. X CNTRS NK (ASSEMBLY E)	.25" THK. EXTRUDED ALUM.	6063-T6
46	SCREW 1/4"-14 X 1 1/2" LG HWH TEK3	410 SS/ZC PLT	




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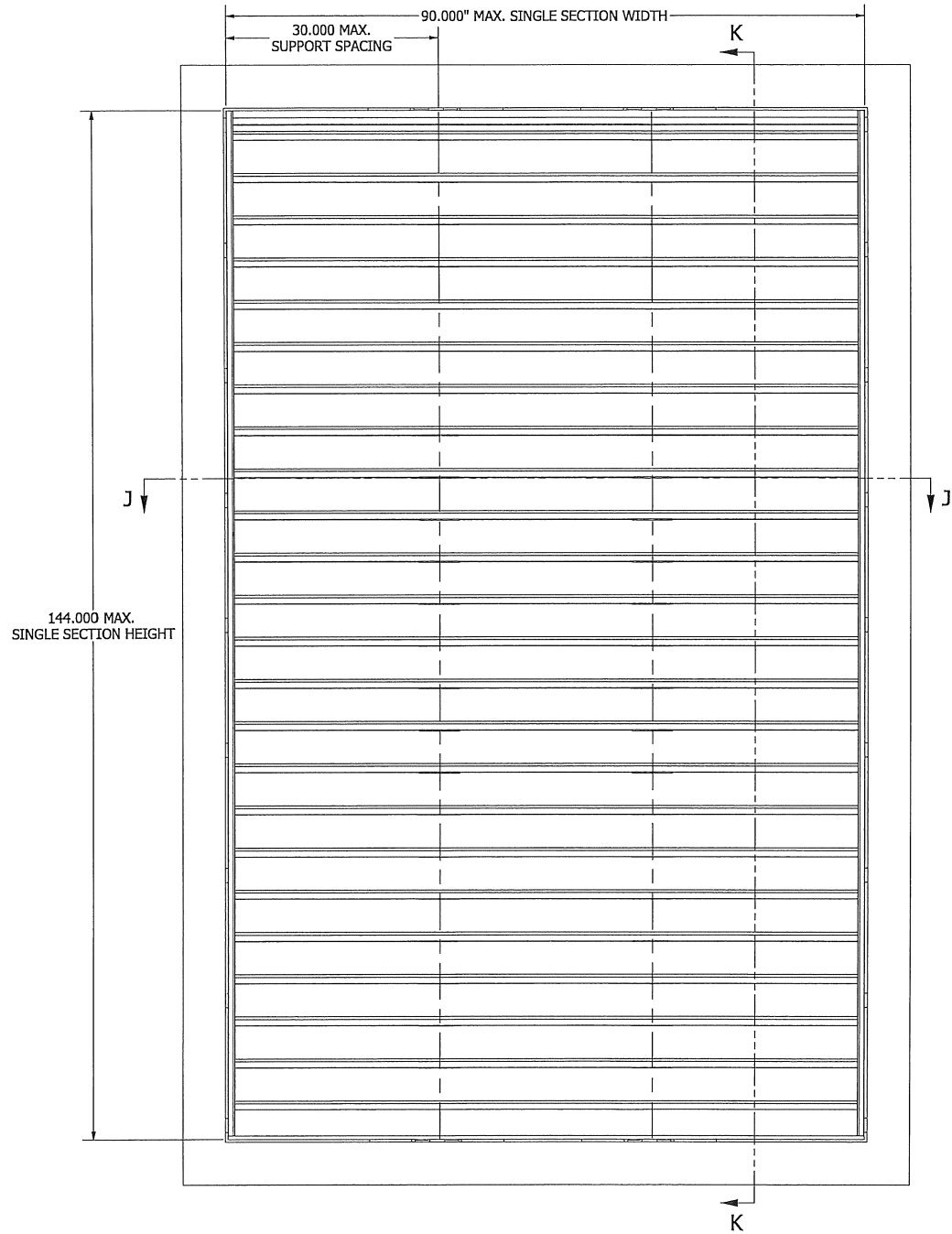
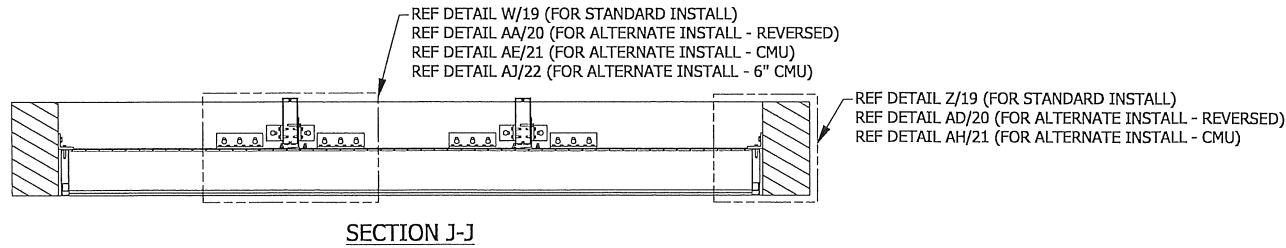
ELF6375DXD LOUVER - FOR 150 PSF WINDLOAD

NOTES

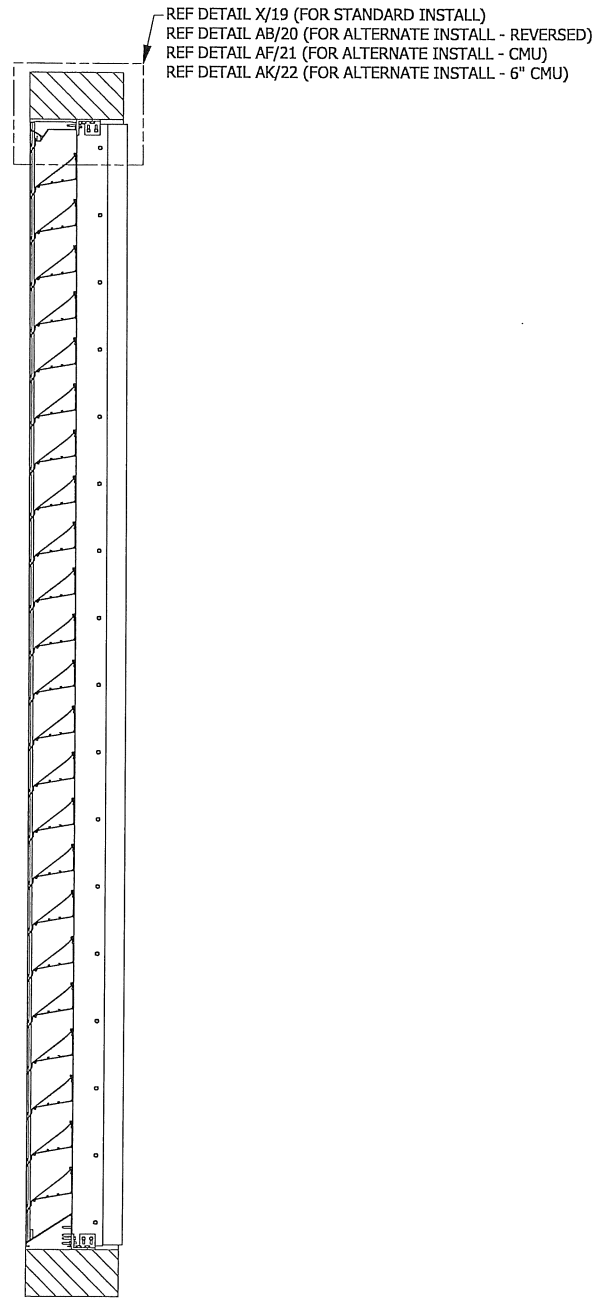
- THE ELF6375DXD HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
- THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF **± 150 PSF OR LESS**.
- THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- IT SHALL BE RESPONSIBILITY OF PERMIT HOLDER/BUILDING DESIGN ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THIS LOUVER SYSTEM.
- MAXIMUM SINGLE SECTION SIZE IS **90" WIDE X 144" HIGH**.
- MAXIMUM ASSEMBLED LOUVER SIZE : **UNLIMITED WIDE X 144" HIGH**.
- SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
- THIS LOUVER SYSTEM IS TO BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT / WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.
- ALL CMU BLOCKS MUST BE GROUT FILLED. MIN. PRISM STRENGTH OF 1500 PSI AT TIME OF INSTALLATION. CMU BLOCKS MUST BE MIN. TYPE 1, GRADE N, LIGHT, MEDIUM OR NORMAL WEIGHT PER ASTM C90. GROUT AND MORTAR MUST COMPLY WITH FLORIDA BUILDING CODE.
- PART NUMBERS WITH SQUARE BALLOONS ARE **"SHIP LOOSE PARTS"**.
- ALL FASTENERS SHALL BE CORROSION RESISTANT.

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES		NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD		RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION		BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012			3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL		
CHECKED	DRP	3/23/2012					
APPROVED	DRP	3/23/2012					
APPROVED			PRODUCT		ELF6375DXD		
MATERIAL			TITLE				
			NOTES, PARTS LIST & ISO VIEW - 150PSF				
			SIZE D		DWG NO		REV J
					60-022277-00B		
ECN XXXXX			SCALE NONE		INVENTOR		SHEET 15 OF 32

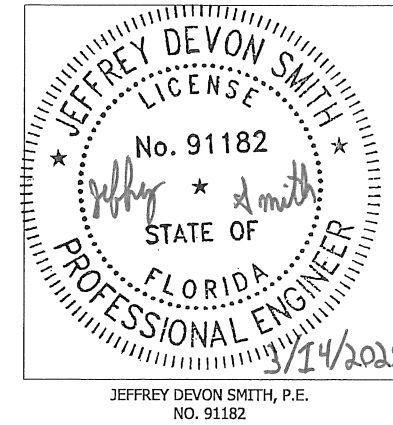
UNLESS OTHERWISE SPECIFIED, USE STD. ENGINEERING TOLERANCES PER WIQ-007



ASSEMBLY "C" - SINGLE SECTION VIEW - FOR WINDLOAD - 150PSF - PERIMETER ATTACHMENT
LOUVER SIZE - 90" W X 144" H



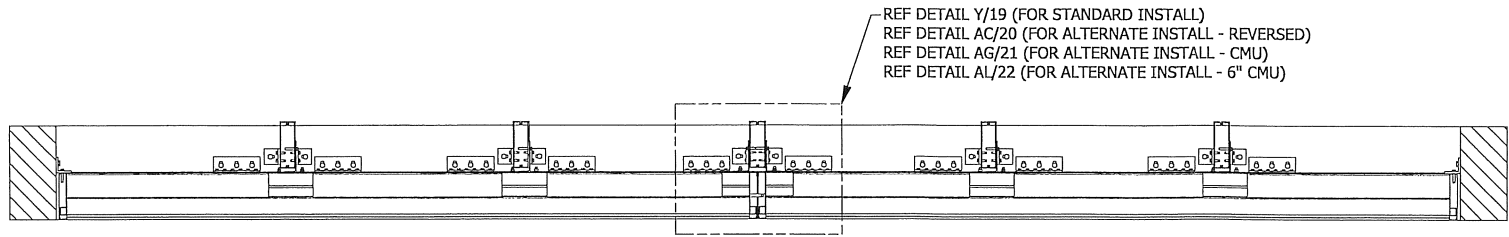
SECTION K-K



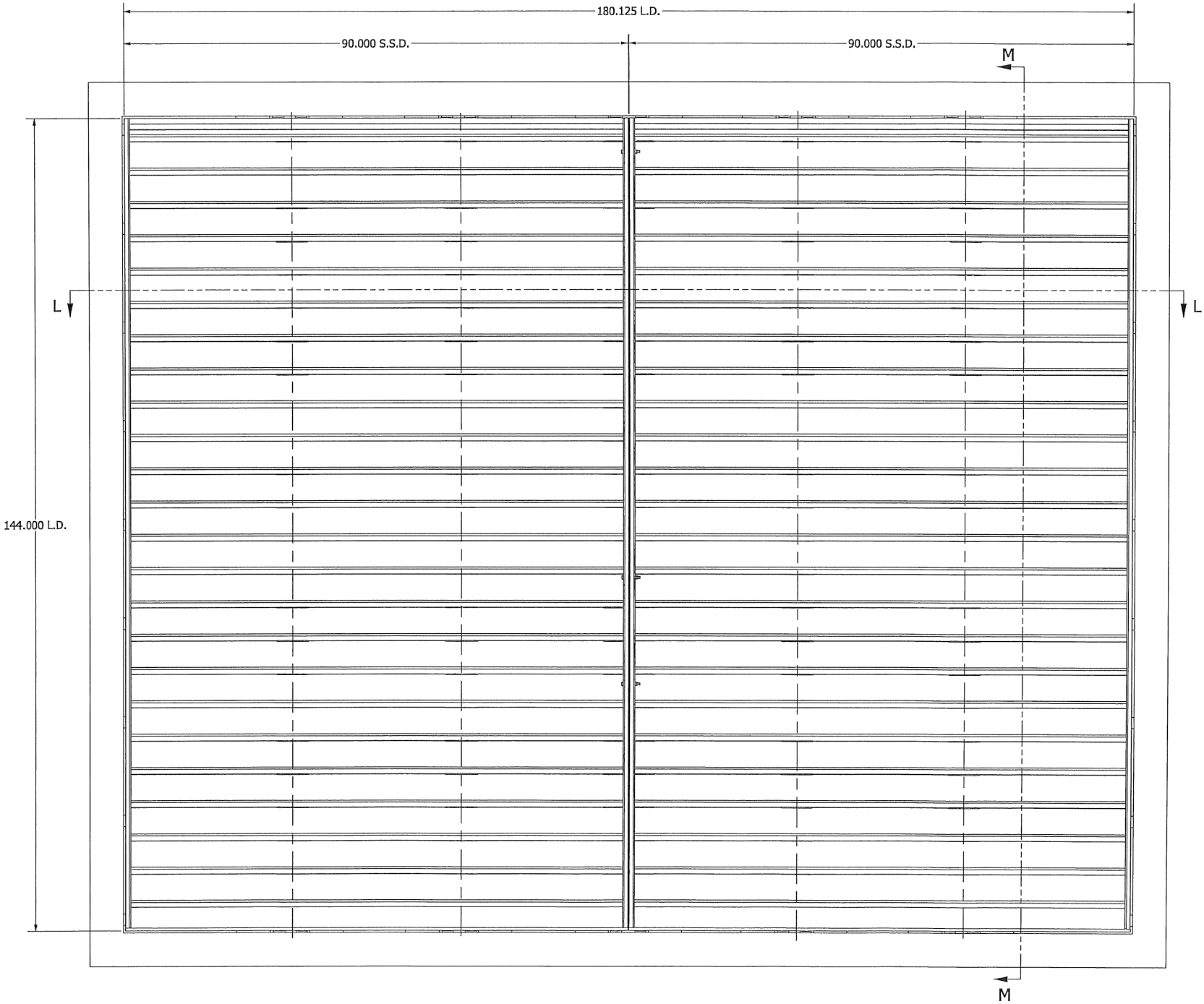
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03
Expiration Date 07/09/2026
By *[Signature]*
Miami-Dade Product Control

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
MATERIAL		PRODUCT		ELF6375DXD		
		TITLE		ASSEMBLY "C" - SINGLE SECTION ASSEMBLY - 150PSF		
SIZE D		DWG NO		60-022277-00B		REV J
SCALE		NONE		INVENTOR		SHEET 16 OF 32

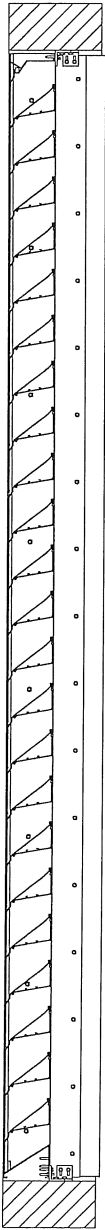
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ENGINEERING TOLERANCES PER WIQ-007



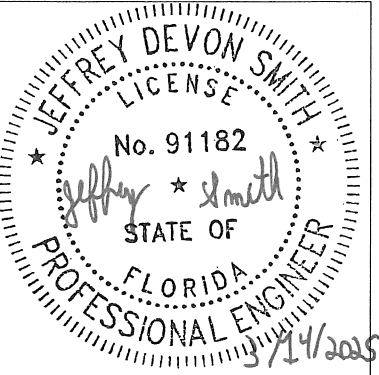
SECTION L-L



ASSEMBLY "C" - MULTI SECTION VIEW- FOR WINDLOAD - 150PSF - PERIMETER ATTACHMENT
MAX. SHIP SECTION - 90" W X 144" H



SECTION M-M




JEFFREY DEVON SMITH, P.E.
NO. 91182

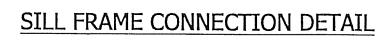
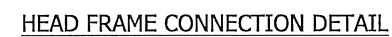
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03

Expiration Date 07/09/2026

By *[Signature]*
Miami-Dade Product Control

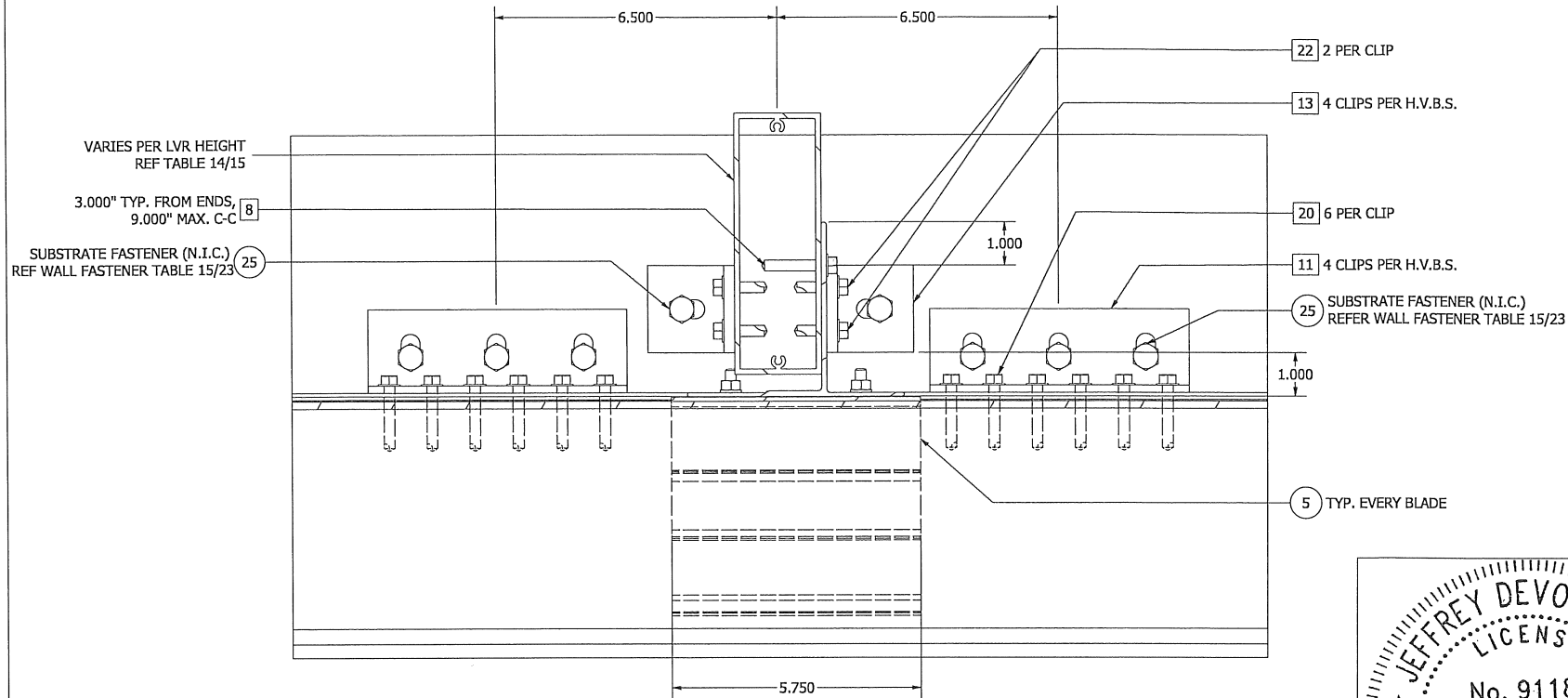
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G	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	VMA	JDS	07/18/22	
F	REV'D FOR 100 PSF WINDLOAD		RVT	JDS	VMA	JDS	04/14/22	
E	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	WRT	MMM	09/25/20	
REV	DESCRIPTION		BY	CHK	APVD	APVD	DATE	
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL					
CHECKED	DRP	3/23/2012						
APPROVED	DRP	3/23/2012						
APPROVED								
MATERIAL			PRODUCT					ELF6375DXD
			TITLE					ASSEMBLY "C" - MULTI SECTION ASSEMBLY - 150PSF
			SIZE	DWG NO			60-022277-00B	REV
ECN XXXXXX			SCALE NONE		INVENTOR		SHEET 17 OF 32	

UNLESS OTHERWISE SPECIFIED, USE STD.
ENGINEERING TOLERANCES PER WIQ-007

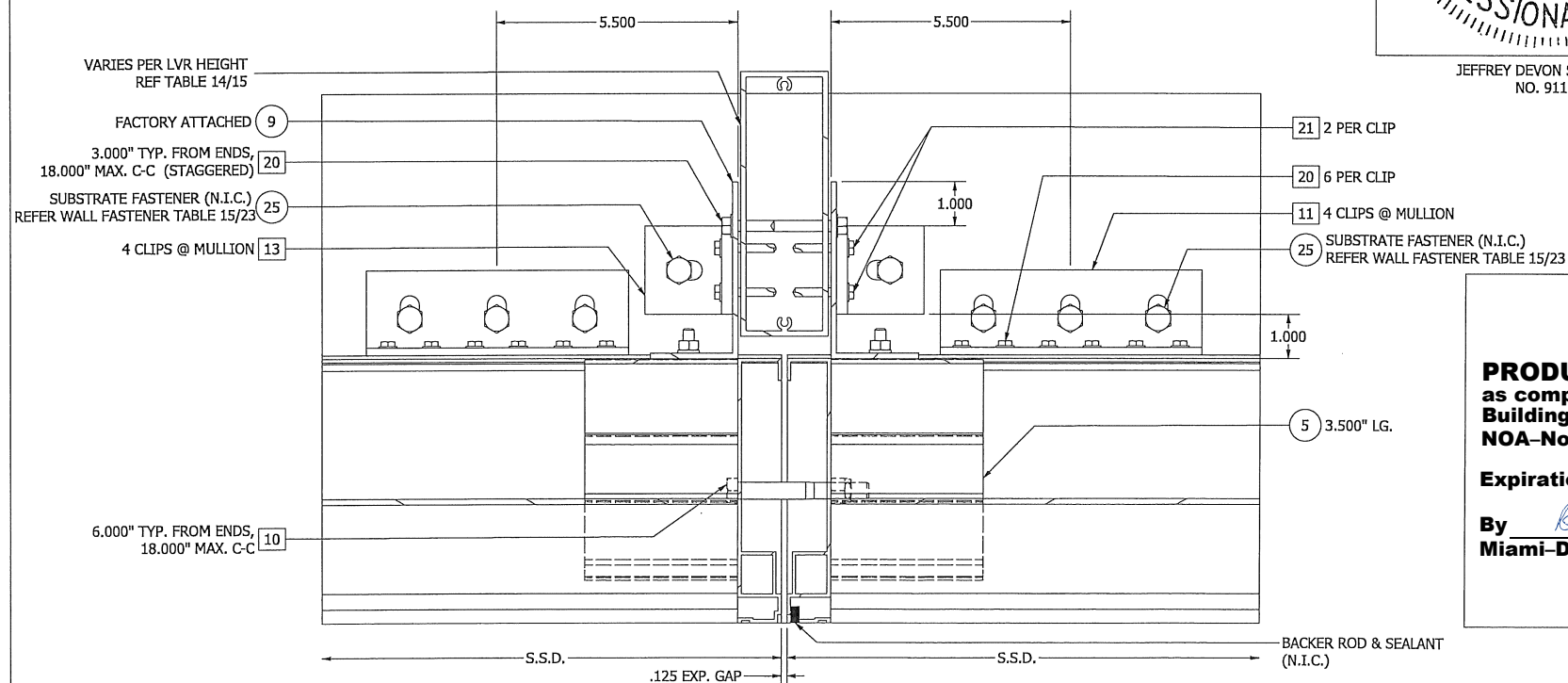


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G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
APPROVED	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED						
MATERIAL	TITLE		STANDARD LOUVER BUILD DETAILS			
		SIZE D	DWG NO		REV J	
			60-022277-00B			
TD. 07	EN XXXXX	SCALE	NONE		INVENTOR	SHEET 18 of 32

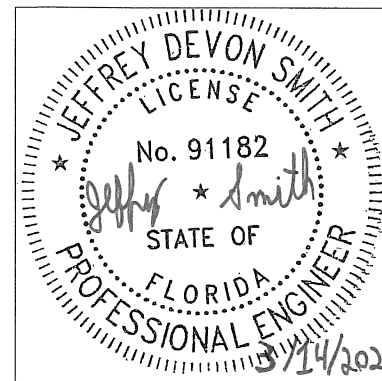
UNLESS OTHERWISE SPECIFIED, USE STD.
ENGINEERING TOLERANCES PER WIQ-007



DETAIL W
H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL
(WOOD/METAL/CONCRETE)



DETAIL Y
MULLION ATTACHMENT DETAIL @ HEAD/SILL
(WOOD/METAL/CONCRETE)

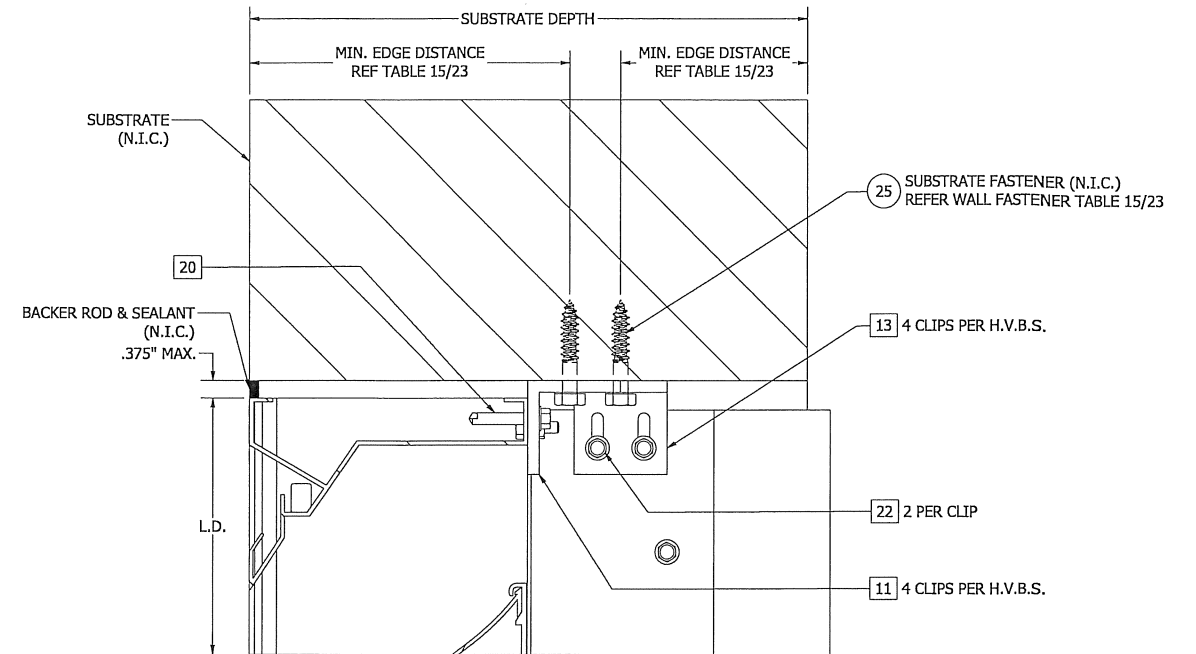


JEFFREY DEVON SMITH, P.E.
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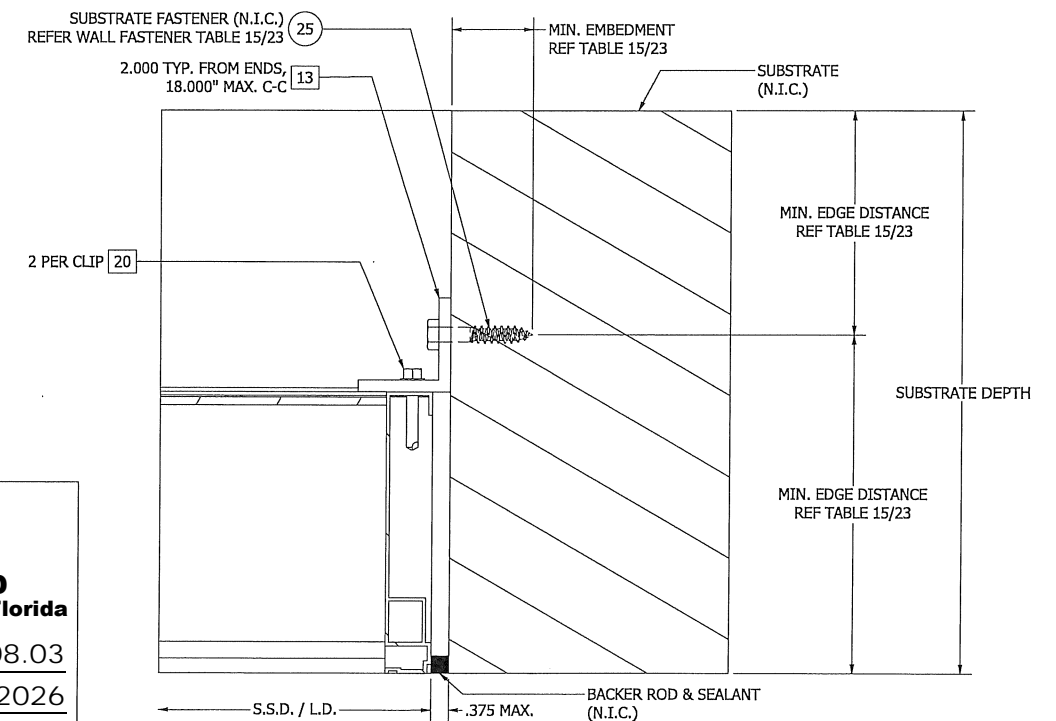
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03

Expiration Date 07/09/2026

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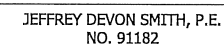
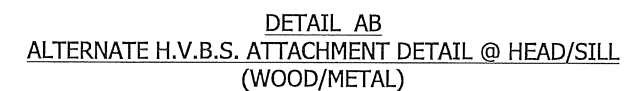
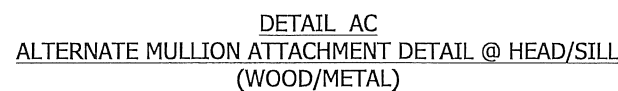
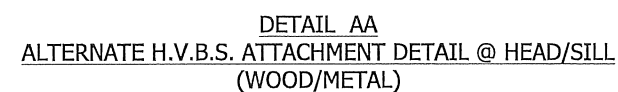
DETAIL X
H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL
(WOOD/METAL/CONCRETE)




DETAIL Z
JAMB ATTACHMENT DETAIL
(WOOD/METAL/CONCRETE/12" CMU)

J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25	
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24	
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE	
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL				
CHECKED	DRP	3/23/2012					
APPROVED	DRP	3/23/2012					
APPROVED							
MATERIAL							
TITLE			ASSEMBLY "C" - STANDARD INSTALLATION DETAILS				
SIZE D			DWG NO			60-022277-00B	REV J
ECN	XXXXX	SCALE	NONE	INVENTOR	SHEET 19 OF 32		

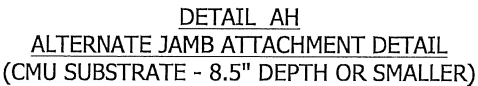
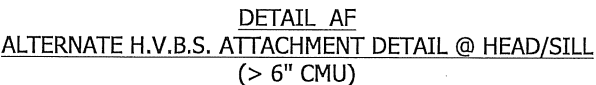
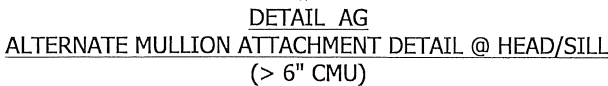
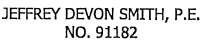
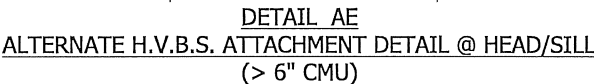
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J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES			NS	JDS	JDS	JDS	03/12/25
REV	DESCRIPTION			BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 RUSKIN AUTHORITY IN AIR CONTROL			3900 Doctor Greaves Rd, Grandville, MI 49430 PROPRIETARY AND CONFIDENTIAL		
CHECKED	DRP	3/23/2012						
APPROVED	DRP	3/23/2012						
APPROVED				PRODUCT		ELF6375DXD		
MATERIAL				TITLE ASSEMBLY "C" - ALTERNATE INSTALLATION DETAILS - REVERSED				
				SIZE D	DWG NO		REV J	
				60-022277-00B				
ECN	XXXXXX			SCALE	NONE		INVENTOR	SHEET 20 OF 32

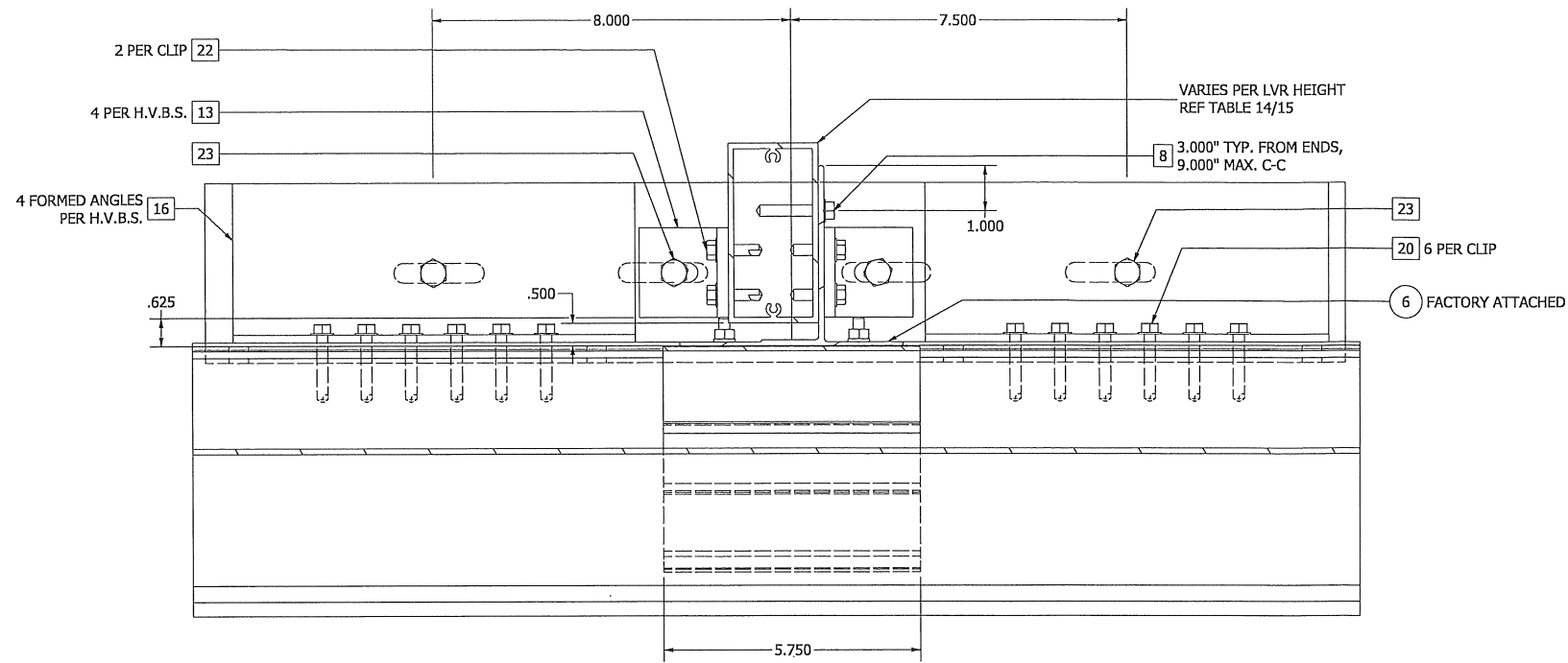
UNLESS OTHERWISE SPECIFIED, USE STD.
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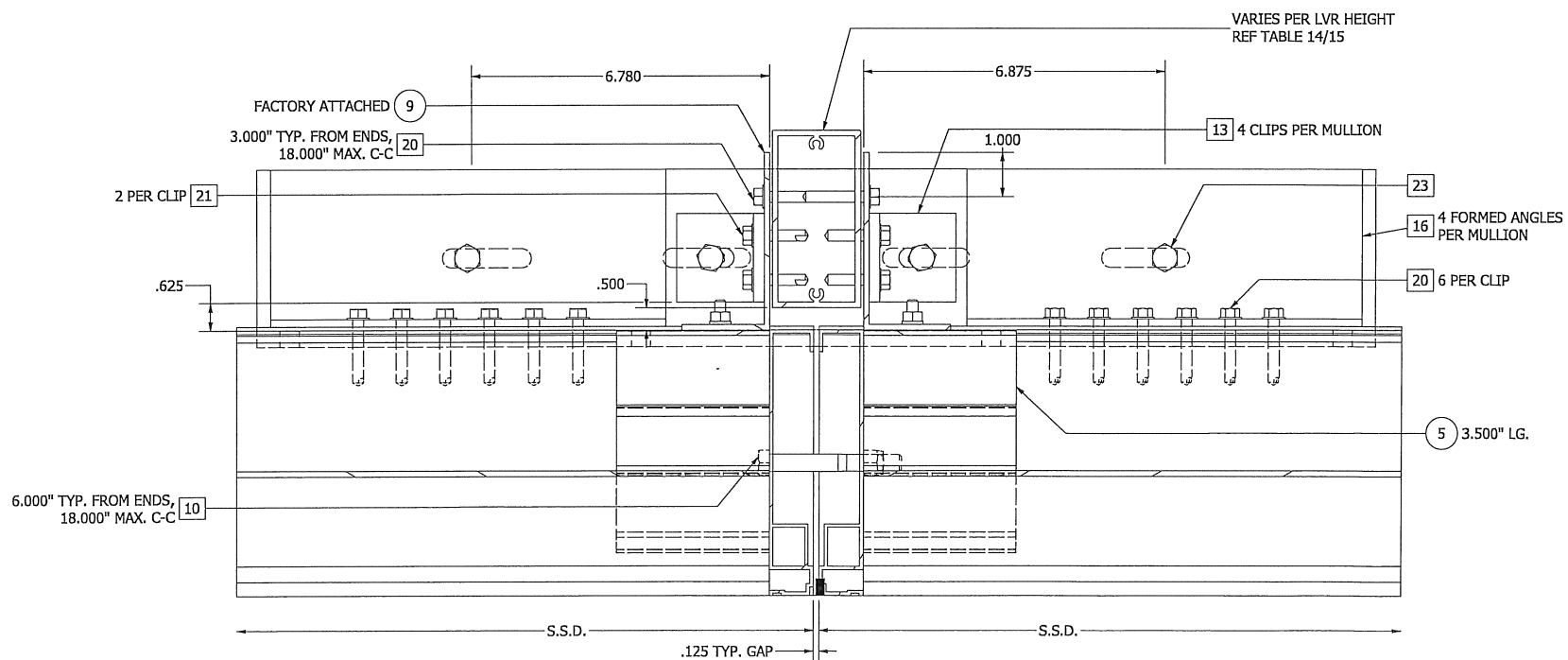
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NOA-No. 25-0408.03
Expiration Date 07/09/2026
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J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES				NS	JDS	JDS	JDS	03/12/25
REV	DESCRIPTION				BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 RUSKIN AUTHORITY IN AIR CONTROL				3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL		
CHECKED	DRP	3/23/2012							
APPROVED	DRP	3/23/2012							
APPROVED									
MATERIAL			PRODUCT		ELF6375DXD				
			TITLE ASSEMBLY "C" - ALTERNATE INSTALLATION DETAILS (>6" CMU)						
			SIZE D		DWG NO			60-022277-00B	
ECN XXXXXX			SCALE NONE		INVENTOR		SHEET 21 OF 32		
							REV J		

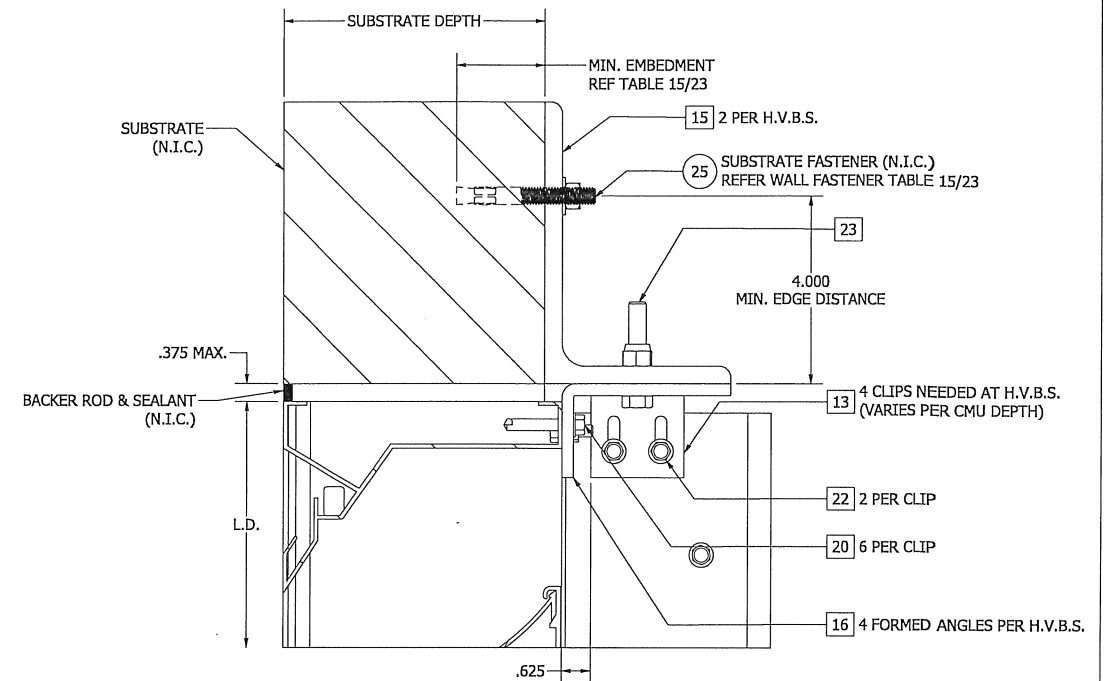
UNLESS OTHERWISE SPECIFIED, USE STD.
ENGINEERING TOLERANCES PER WIQ-007



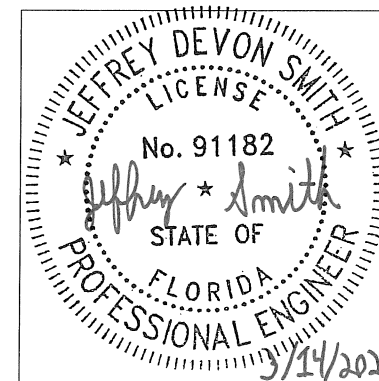
DETAIL AJ
ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL
(6" CMU)



DETAIL AL
ALTERNATE MULLION ATTACHMENT DETAIL @ HEAD/SILL
(6" CMU)



DETAIL AK
ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL
(6" CMU)



JEFFREY DEVON SMITH, P.E.
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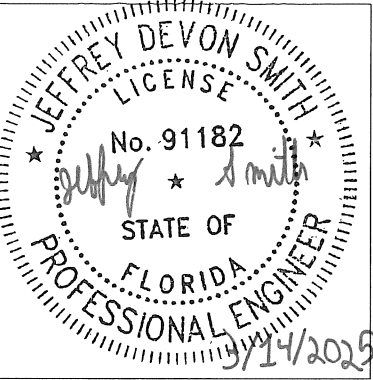
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03
Expiration Date 07/09/2026
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J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES		NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	JDS	JDS	04/04/24
REV	DESCRIPTION		BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL				
CHECKED	DRP	3/23/2012					
APPROVED	DRP	3/23/2012					
APPROVED							
MATERIAL			PRODUCT	ELF6375DXD			
			TITLE ASSEMBLY "C" - ALTERNATE INSTALLATION DETAILS (6" CMU)				
			SIZE D	DWG NO 60-022277-00B			REV J
			SCALE NONE	INVENTOR		SHEET 22 OF 32	

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ENGINEERING TOLERANCES PER WIQ-007

TABLE 15 - ELF6375DXD - WALL FASTENER TABLE (N.I.C.) - ITEM 25						
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	LOCATION	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	FASTENER QTY
WOOD	SPECIFIC GRAVITY = 0.4	HVBS/MULLION SUPPORT	3/8" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	2 1/2"	2 PER 6" LG. ANGLE
			3/8" Ø X 2" LONG LAG SCREW, A307 STEEL/STAINLESS STEEL	1 3/4"	2 1/2"	3 PER 6" LG. ANGLE
		JAMBS	1/4" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	2 1/2"	1 PER 2" LG. ANGLE
			3/8" Ø X 2" LONG LAG SCREW, A307 STEEL	1 3/4"	2 1/2"	1 PER 2" LG. ANGLE
STEEL & ALUMINUM	STEEL - MIN. 14 GA ALUMINUM - MIN. 3/16" THICK	HVBS/MULLION SUPPORT	3/8" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	3/4"	2 PER 6" LG. ANGLE
			3/8" Ø SCREW, A307 STEEL/STAINLESS STEEL (THIS SCREW REQUIRES 12 GA STEEL)	3 THREADS BEYOND SUBSTRATE	3/4"	3 PER 6" LG. ANGLE
		JAMBS	5/16" Ø - 18 A307 STEEL/STAINLESS STEEL BOLT OR TEK SCREW	3 THREADS BEYOND NUT OR SUBSTRATE	1/2"	1 PER 2" LG. ANGLE
CONCRETE	4000 PSI MIN. COMP. STRENGTH (UNCRACKED)	HVBS/MULLION SUPPORT	1/2" Ø HILTI KWIK BOLT 3 ANCHOR	3 1/4"	4"	1 PER 6" LG. ANGLE
	3000 PSI MIN. COMP. STRENGTH (UNCRACKED)	JAMBS	1/4" Ø X 2" HILTI KWIK BOLT 3 ANCHOR	2"	4 1/2"	1 PER 2" LG. ANGLE
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH (UNCRACKED)	HVBS/MULLION SUPPORT	3/8" Ø X 3 1/2" HILTI KWIK HUS EZ SCREW ANCHOR	3 1/4"	4"	4 PER SUPPORT ANGLE (ITEM 15)
		JAMBS (SINGLE ANGLE)	1/4" Ø X 3" HILTI KWIK HUS EZ W/WASHER	2 1/2"	4"	1 PER 2" LG. ANGLE
		JAMBS (DOUBLE ANGLE)	1/4" Ø X 3" HILTI KWIK HUS EZ W/WASHER	2 1/2"	4"	1 PER ANGLE (ITEM 18)

TABLE 16 - ELF6375DXD - COUNTERSUNK FASTENER TABLE (N.I.C.) - ITEM 25						
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	FASTENER QTY. PER 6" LG. ANGLE	FASTENER QTY. PER 2" LG. ANGLE
STEEL	14GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	1/4-20 BOLT, SAE GRADE / 5 STAINLESS STEEL	3 THREADS BEYOND NUT	1/2"	3	1
	10GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	1/4-20 SD SCREW, SAE GRADE 5 / STAINLESS STEEL	3 THREADS BEYOND SUBSTRATE THICKNESS			
ALUMINUM	1/8" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 BOLT, SAE GRADE 5 / STAINLESS STEEL	3 THREADS BEYOND NUT	1/2"	3	1
	1/4" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 SD SCREW, SAE GRADE 5 / STAINLESS STEEL	3 THREADS BEYOND SUBSTRATE THICKNESS			
CONCRETE	3000 PSI MIN. COMP. STRENGTH (UNCRACKED)	1/4" DIA HILTI KWIK BOLT 3 EXPANSION ANCHOR	2"	3"	N/A	1
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH (UNCRACKED)	1/4" Ø X 3" HILTI KWIK HUS EZ W/WASHER	2 1/2"	4"	N/A	1



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NO. 91182


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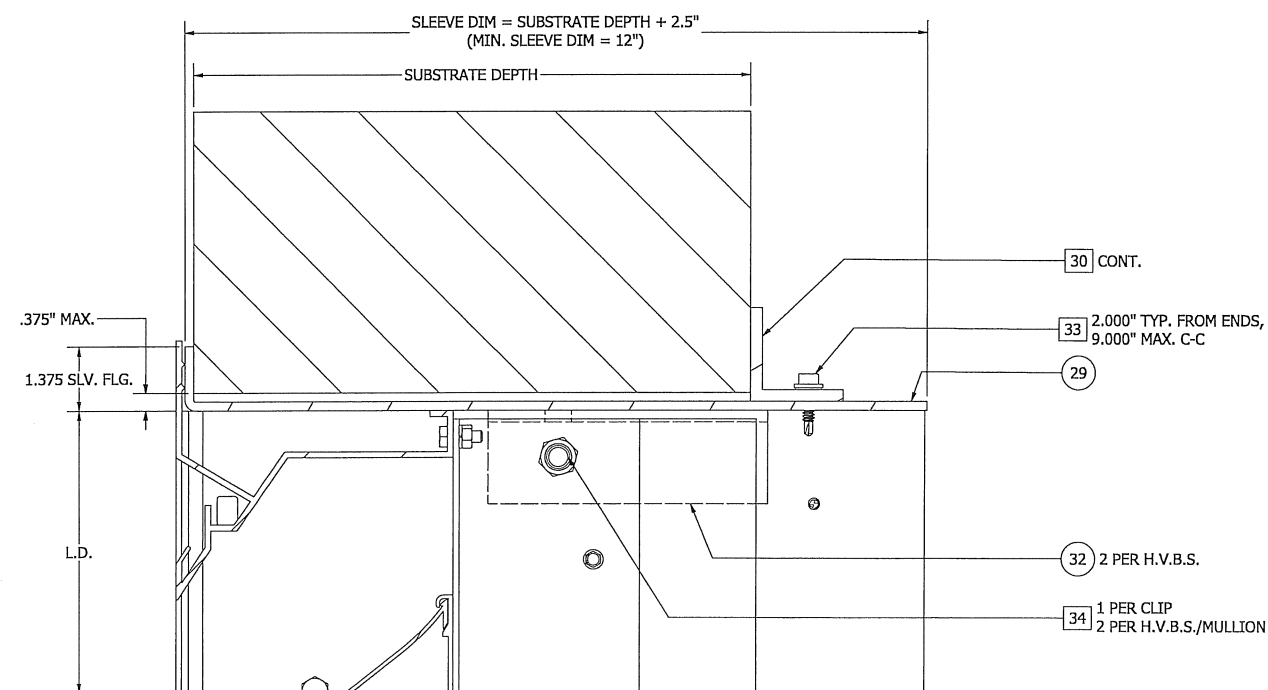
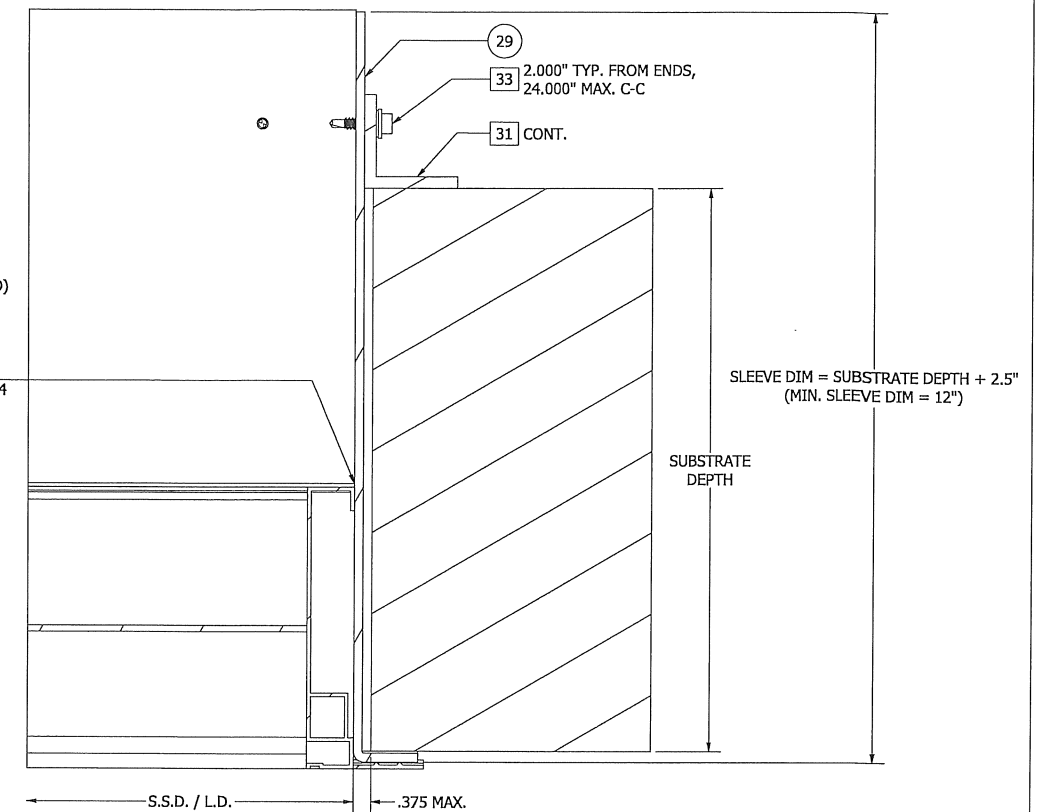
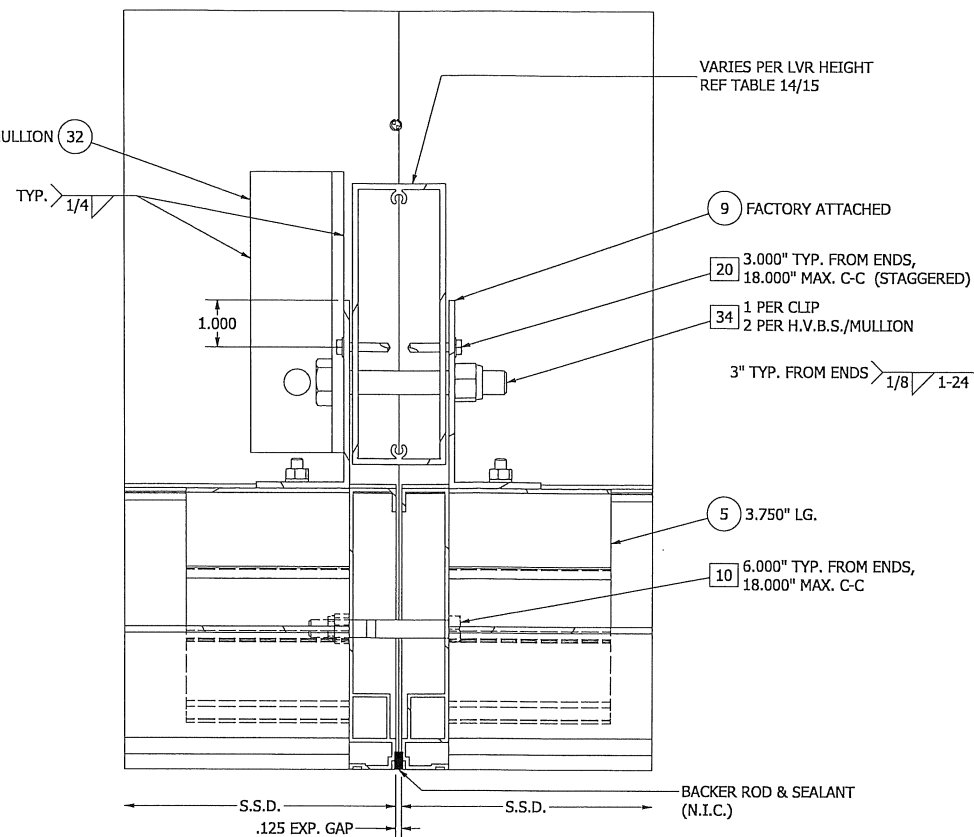
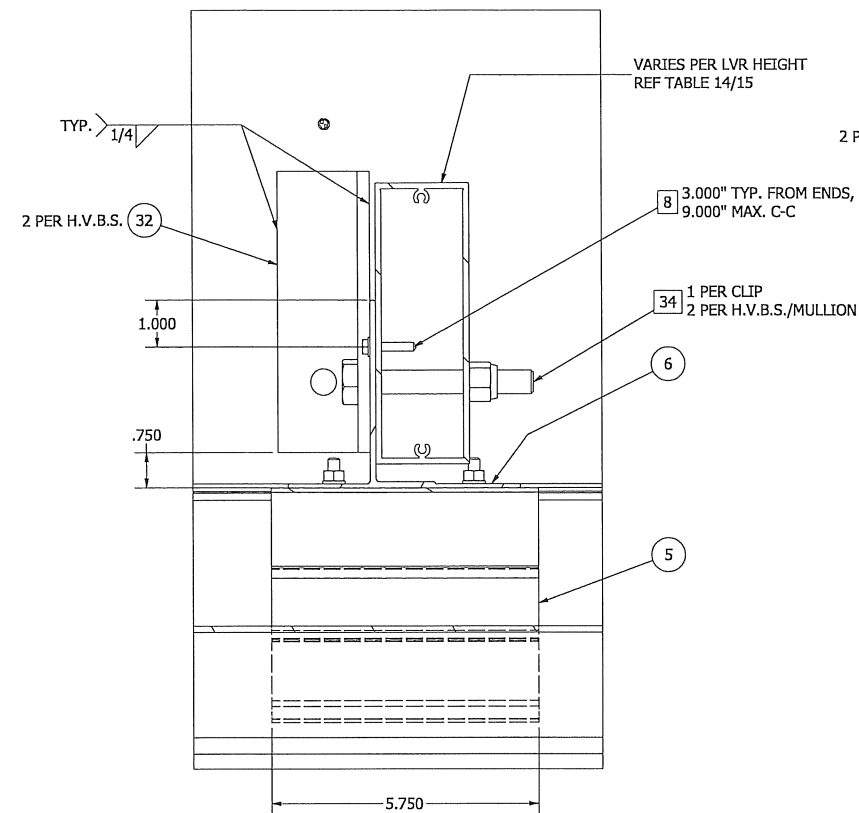
Expiration Date 07/09/2026

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Miami-Dade Product Control

NOTE FOR COUNTERSUNK ATTACHMENT:
MULTIPLE ANCHORS ARE ONLY FOR HVBS / MULLION ATTACHMENT.

JAMB ATTACHMENT NEEDS ONLY ONE ANCHOR PER ANGLE
BOLTS/SCREWS INTO JAMBS CAN BE A307 GR A

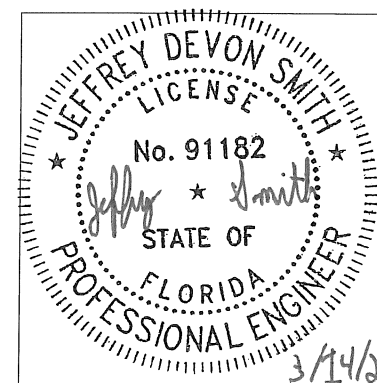
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H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012	PRODUCT			
MATERIAL			ELF6375DXD			
			TITLE			
			WALL FASTENER TABLE			
			SIZE	DWG NO	REV	
			D	60-022277-00B	J	
ECN	XXXXX	SCALE	NONE	INVENTOR	SHEET 23 of 32	



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03


Expiration Date 07/09/2026

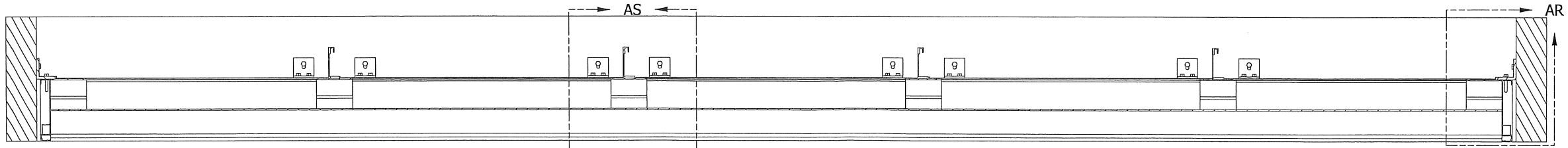
By 
Miami-Dade Product Control



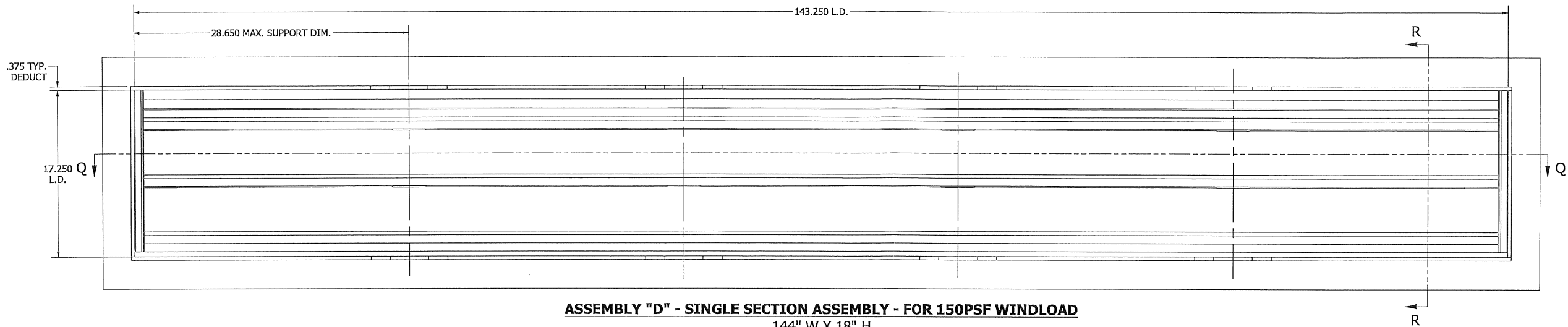
JEFFREY DEVON SMITH, P.E.
NO. 91182

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ENGINEERING TOLERANCES PER WIQ-007

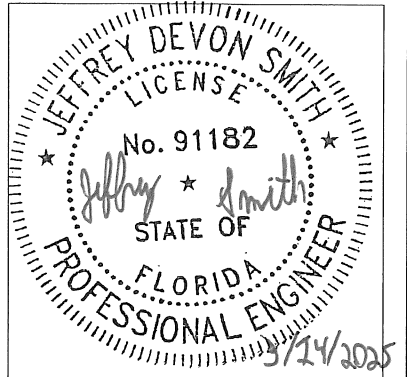
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H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 RUSKIN AUTHORITY IN AIR CONTROL		3900 Doctor Greaves Rd, Grandview, MO 64050 PROPRIETARY AND CONFIDENTIAL	
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED						
MATERIAL			PRODUCT	ELF637SDXD		
TITLE			UNIVERSAL SLEEVE INSTALLATION DETAILS			
SIZE D			DWG NO	60-022277-00B		REV J
SCALE		NONE	INVENTOR	SHEET 25 OF 32		



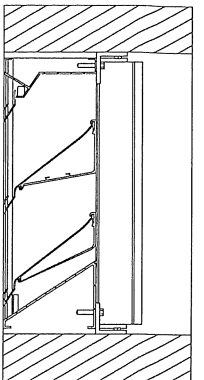
SECTION Q-Q



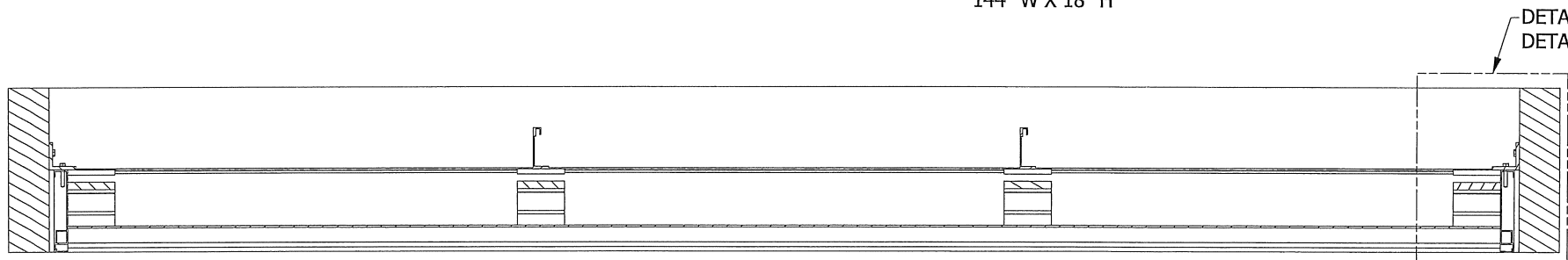
ASSEMBLY "D" - SINGLE SECTION ASSEMBLY - FOR 150PSF WINDLOAD
144" W X 18" H



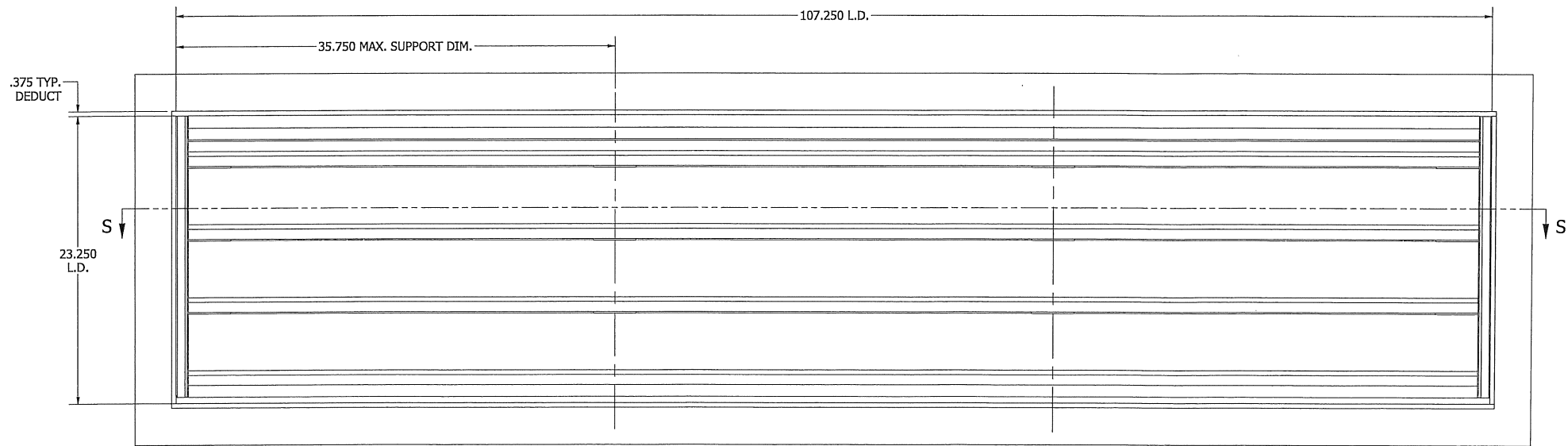
JEFFREY DEVON SMITH, P.E.
NO. 91182



SECTION R-R

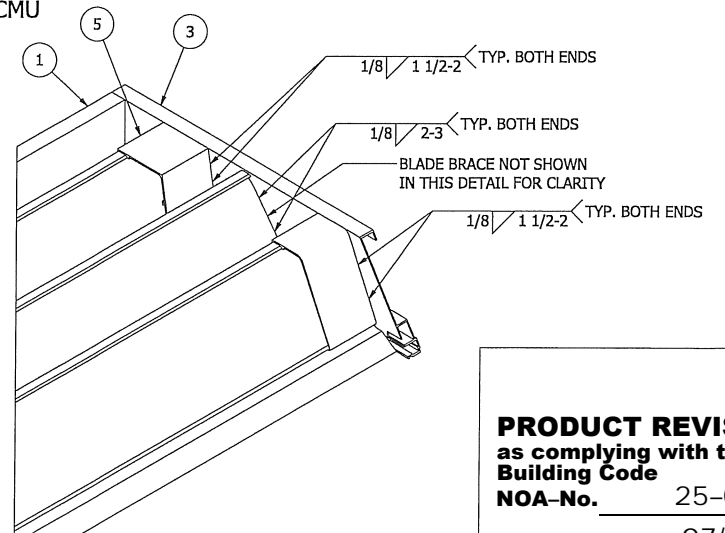


SECTION S-S




ASSEMBLY "E" - SINGLE SECTION ASSEMBLY - FOR 150PSF WINDLOAD
108" W X 24" H

DETAIL AT/27 FOR CONCRETE
DETAIL AU/27 FOR CMU

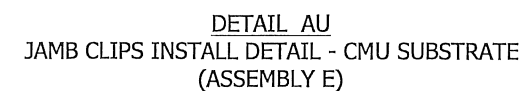
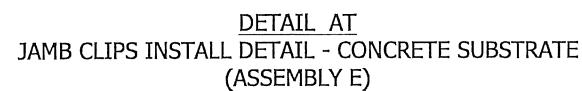
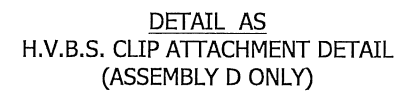



BLADE BRACE WELDING DETAIL
(ASSEMBLY D & E)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 25-0408.03
Expiration Date 07/09/2026
By *[Signature]*
Miami-Dade Product Control

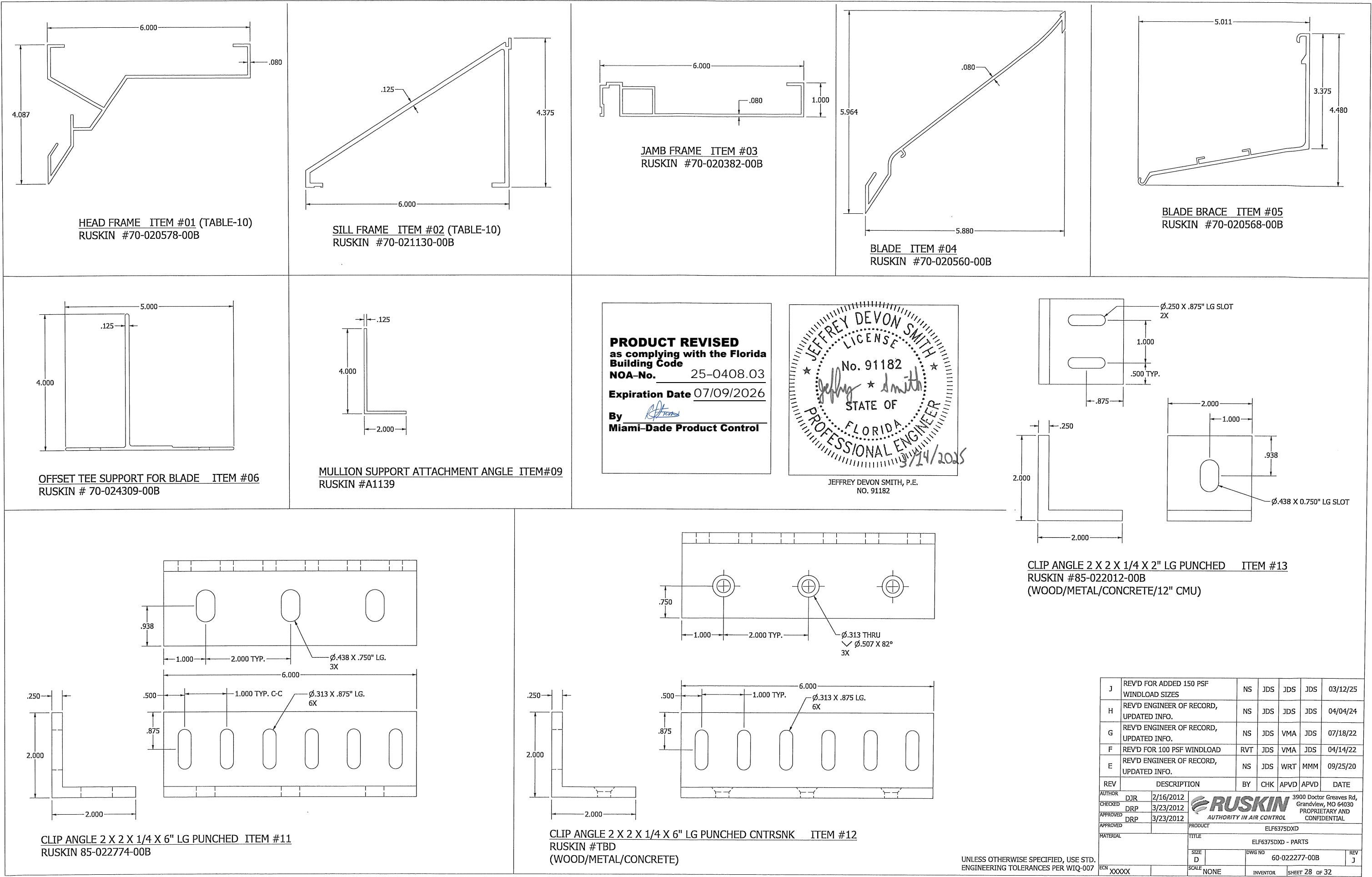
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL		
CHECKED	DRP	3/23/2012			
APPROVED	DRP	3/23/2012			
APPROVED					
MATERIAL			PRODUCT	ELF6375DXD	
			TITLE	ASSEMBLY "D" & "E" - SINGLE SECTION ASSEMBLY - 150PSF	
			SIZE	D	
			DWG NO	60-022277-00B	REV
					J
ECN	XXXXXX		SCALE	NONE	
			INVENTOR	SHEET	26 OF 32

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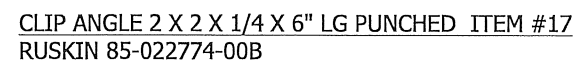
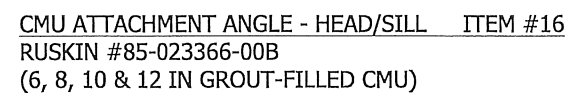
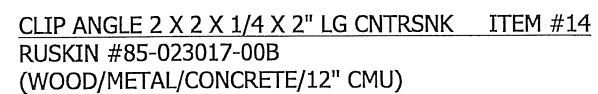
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED						
MATERIAL	PRODUCT		ELF6375DXD			
		TITLE		ASSEMBLY "D" & "E" - DETAILS - 150PSF		
		SIZE D	DWG NO			REV J
		60-022277-00B				
ECN	XXXXXX	SCALE	NONE		INVENTOR	SHEET 27 OF 32

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ENGINEERING TOLERANCES PER WIQ-007

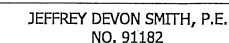
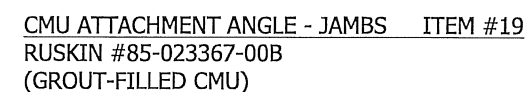
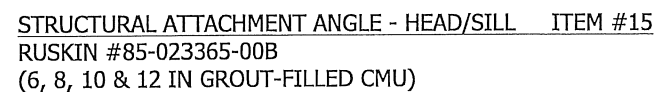



J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012	PRODUCT ELF637SDXD			
MATERIAL	TITLE ELF637SDXD - PARTS					
		SIZE D	DWG NO 60-022277-00B		REV J	
ECN XXXXX	SCALE NONE		INVENTOR		SHEET 28 OF 32	

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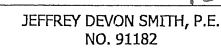
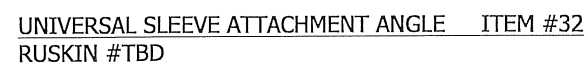
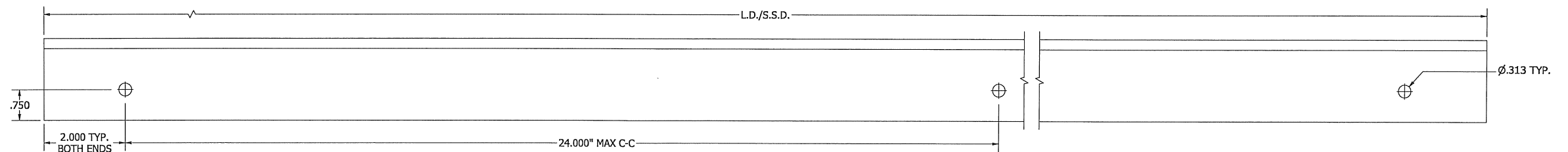
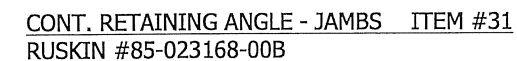
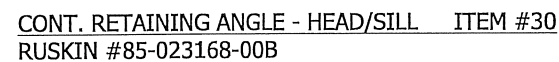
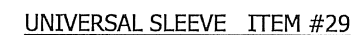
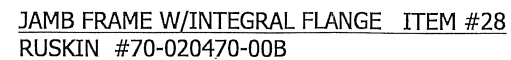
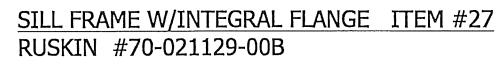


By
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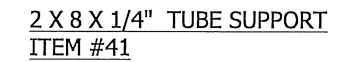
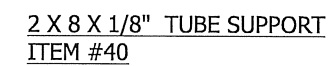
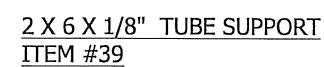
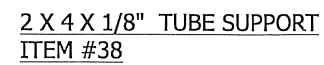
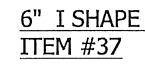
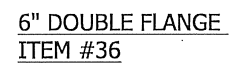
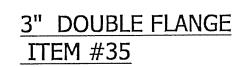
J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES	NS	JDS	JDS	JDS	03/12/2
H	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	JDS	JDS	04/04/2
G	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	JDS	VMA	JDS	07/18/2
F	REV'D FOR 100 PSF WINDLOAD	RVT	JDS	VMA	JDS	04/14/2
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/12/2012	 3900 Court Greaves Rd Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
APPROVED	DRP	3/23/2012				
MATERIAL	PRODUCT		ELF6375DXD			
TITLE		ELF6375DXD - PARTS				
SIZE D		DWG NO		60-022277-00B		
ECN	XXXXX	SCALE		NONE		
		INVENTOR		SHEET 29 OF 32		

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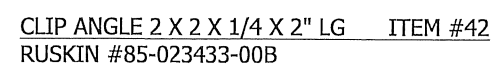
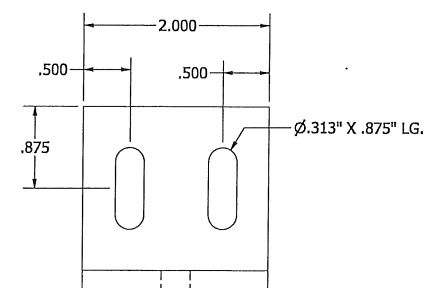
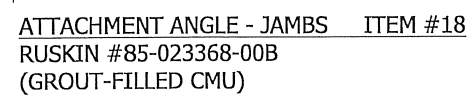
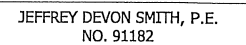



By 
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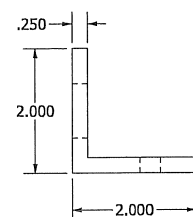
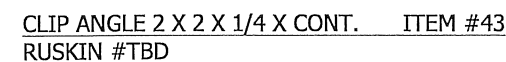


By RFH
Miami-Dade Product Control

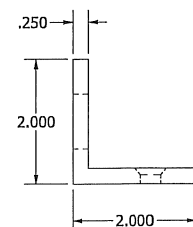
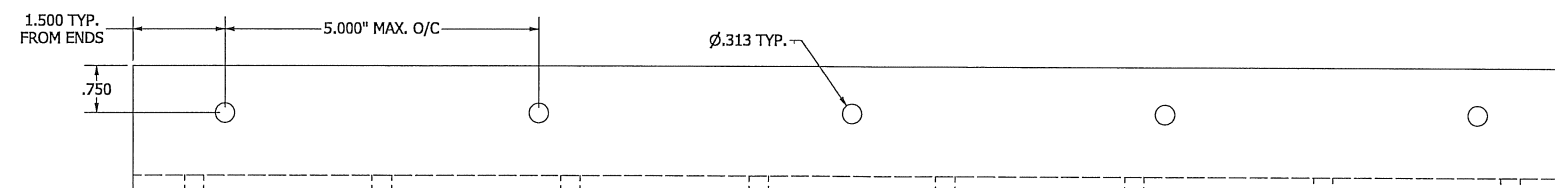
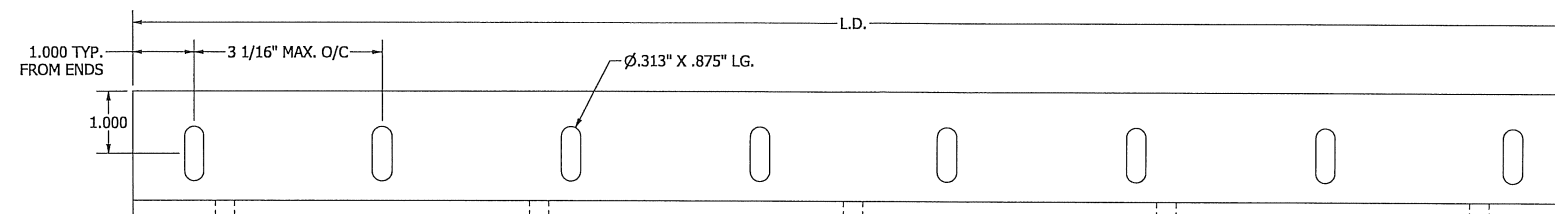


J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES		NS	JDS	JDS	JDS	03/12/25
H	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	JDS	JDS	04/04/24
G	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	VMA	JDS	07/18/22
F	REV'D FOR 100 PSF WINDLOAD		RVT	JDS	VMA	JDS	04/14/22
E	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	JDS	WRT	MMM	09/25/20
REV	DESCRIPTION		BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL				
CHECKED	DRP	3/23/2012					
APPROVED	DRP	3/23/2012					
APPROVED							
MATERIAL			PRODUCT		ELF637SDXD		
			TITLE		ELF637SDXD - PARTS		
			SIZE D		DWG NO		REV J
					60-022277-00B		
EEN XXXXXX			SCALE NONE		INVENTOR		SHEET 31 OF 32

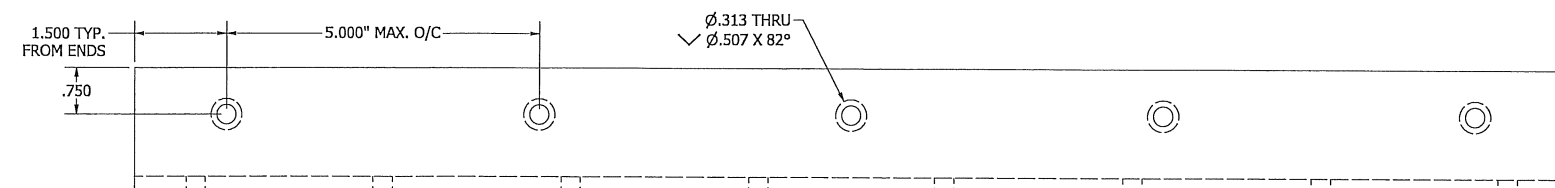
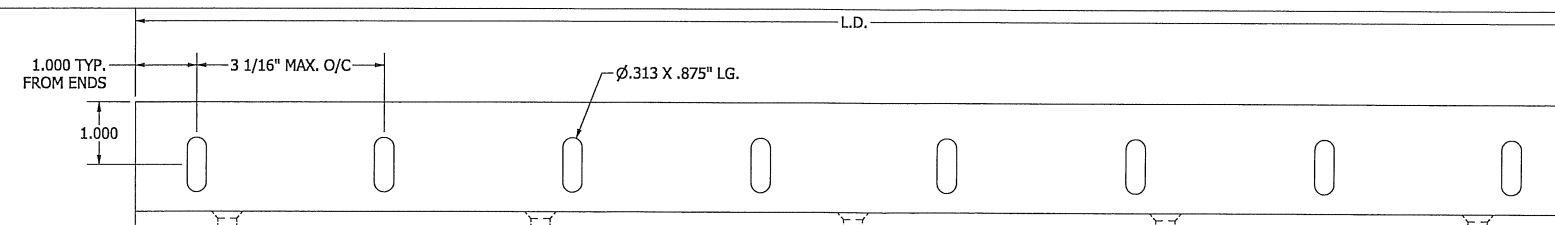
UNLESS OTHERWISE SPECIFIED, USE STD.
ENGINEERING TOLERANCES PER WIQ-007



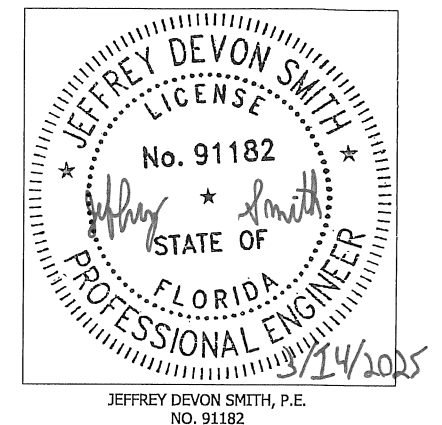
CLIP ANGLE 2 X 2 X 1/4 X CONT. ITEM #44
RUSKIN #TBD




CLIP ANG 2 X 2 X 1/4 X CONT. X CNTRSNK ITEM #45
RUSKIN #TBD



By *[Signature]*
Miami-Dade Product Control



J	REV'D FOR ADDED 150 PSF WINDLOAD SIZES			NS	JDS	JDS	JDS	03/12/25
REV	DESCRIPTION			BY	CHK	APVD	APVD	DATE
AUTHOR	DJR	2/16/2012	 RUSKIN AUTHORITY IN AIR CONTROL	3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL				
CHECKED	DRP	3/23/2012						
APPROVED	DRP	3/23/2012						
APPROVED								
MATERIAL			PRODUCT ELFG375DXD					
			TITLE ELFG375DXD - PARTS					
			SIZE	DWG NO				REV
			D	60-022277-00B				J
ECC XXXXX			SCALE	INVENTOR		SHEET 32 OF 32		
			NONE					

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ENGINEERING TOLERANCES PER WIQ-007