

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

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

NOTICE OF ACCEPTANCE (NOA)

Construction Specialties, Inc. 3 Werner Way Lebanon, NJ 08833

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 DC-4174 Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 22 of 22, dated 12/03/2010, with revision 5 dated 10/14/2024, prepared by Construction Specialties, Inc., signed and sealed by Wayne K. Helmila, 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, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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 # 20-1222.14** 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.

MIAMI-DADE COUNTY
APPROVED

NOA No. 24-1206.04 Expiration Date: June 16, 2026 Approval Date: January 23, 2025 Page 1

- 1. Evidence submitted under previous NOAs
- A. DRAWINGS "Submitted under NOA # 16-0418.10"
 - 1. Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 14 of 14, dated 12/03/2010, with revision 2 dated 03/10/2016, prepared by Construction Specialties, Inc., signed and sealed by Wayne K. Helmila, P.E.
- B. TESTS "Submitted under NOA # 11-0218.04"
 - 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 installation diagram of Model DC-4174 Aluminum Louvers, prepared by Architectural Testing, Inc, Test Report No. **A4375.01-109-18**, dated 02/04/2011, signed and sealed by Michael D. Stremmel, P.E.

C. CALCULATIONS

1. Model DC-4174 Louver calculations prepared by Rice Engineering, dated 04/06/2016, signed and sealed by Wayne K. Helmila, P.E.

"Submitted under NOA # 11-0218.04"

- 2. Model DC-4174 Louver calculations prepared by Rice Engineering, dated 02/15/2011, signed and sealed by L. David Rice, 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 5th edition (2014) FBC issued Rice Engineering, dated 04/04/2016, signed and sealed by Wayne K. Helmila, P.E.
 - 2. Statement letter of no financial interest issued by Rice Engineering, dated 04/04/2016, signed and sealed by Wayne K. Helmila, P.E.
 - "Submitted under NOA # 11-1212.07"
 - 3. Statement letter of code conformance to 2007 and 2010 FBC issued Rice Engineering, dated 12/06/2011, signed and sealed by L. David Rice, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-1206.04
Expiration Date: June 16, 2026
Approval Date: January 23, 2025

2. Evidence submitted under NOA # 18-0117.07

A. DRAWINGS

1. Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 14 of 14, dated 12/03/2010, with revision 3 dated 11/20/2017, prepared by Construction Specialties, Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Model DC-4174 Louver calculations prepared by Rice Engineering, dated 03/07/2018, signed and sealed by Wayne K. Helmila, 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 6th edition (2017) FBC issued Rice Engineering, dated 11/29/2017, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 01/20/2018, signed and sealed by Wayne K. Helmila, P.E.

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Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-1206.04
Expiration Date: June 16, 2026
Approval Date: January 23, 2025

3. Evidence submitted under NOA # 20-1222.14

A. DRAWINGS

1. Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 14 of 14, dated 12/03/2010, with revision 4 dated 04/12/2021, prepared by Construction Specialties, Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

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 7th edition (2020) of the FBC issued Rice Engineering, dated 11/04/2020, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 11/04/2020, signed and sealed by Wayne K. Helmila, P.E.

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Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-1206.04
Expiration Date: June 16, 2026
Approval Date: January 23, 2025

4. New evidence submitted

A. DRAWINGS

Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 22 of 22, dated 12/03/2010, with revision 5 dated 10/14/2024, prepared by Construction Specialties, Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Model **DC-4174** Louver calculations prepared by Rice Engineering, dated 11/12/2024, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

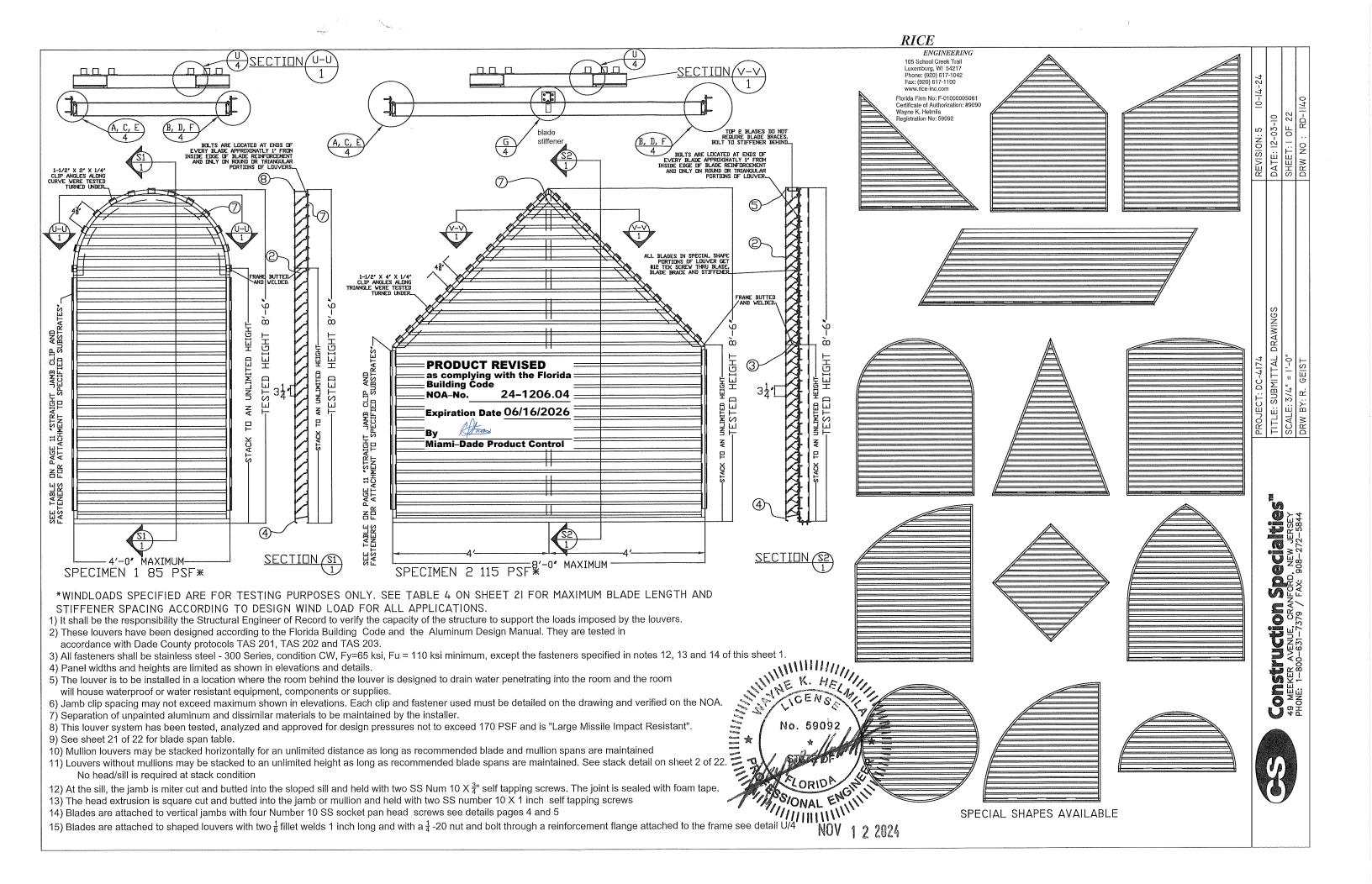
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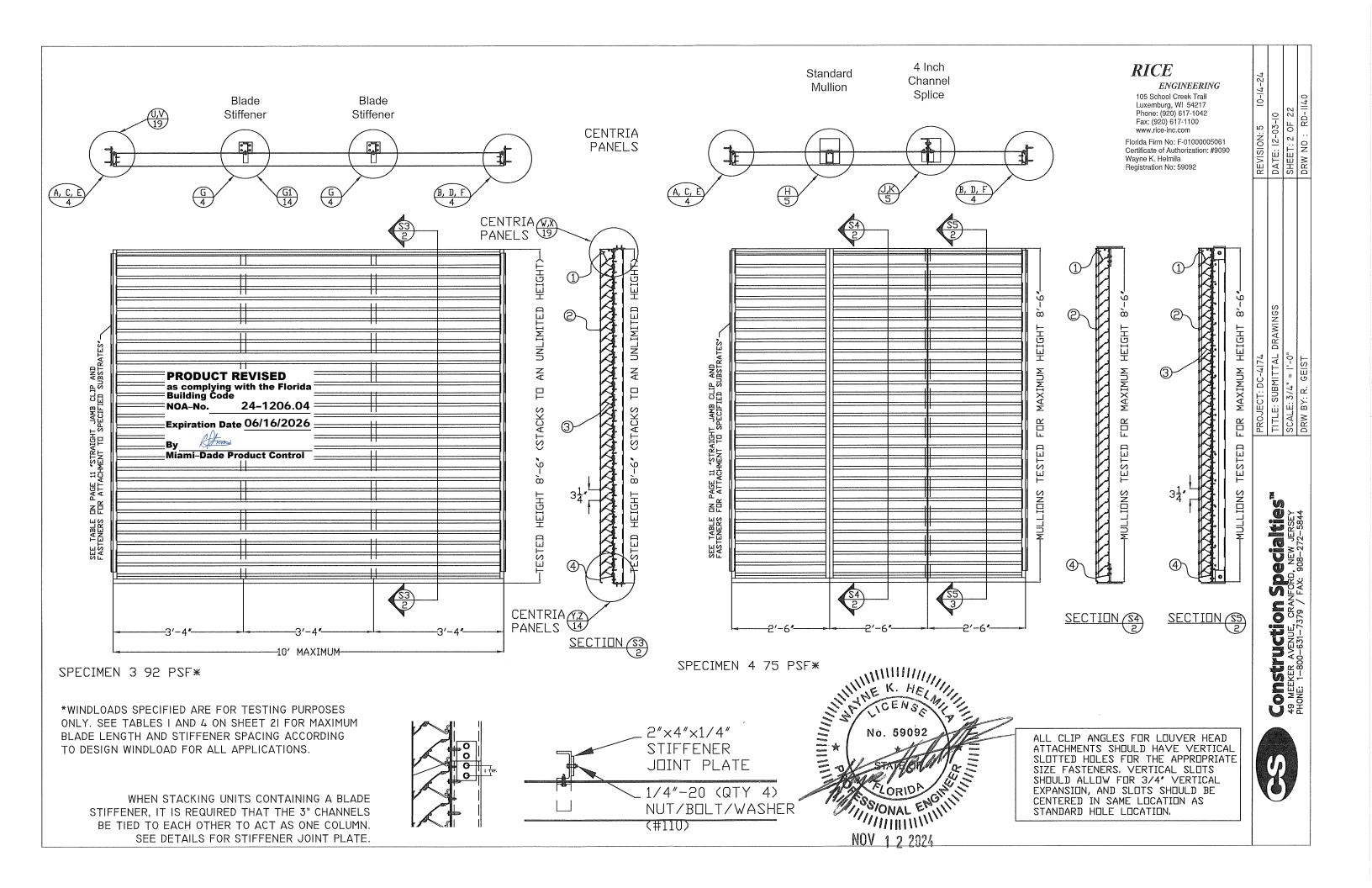
F. STATEMENTS

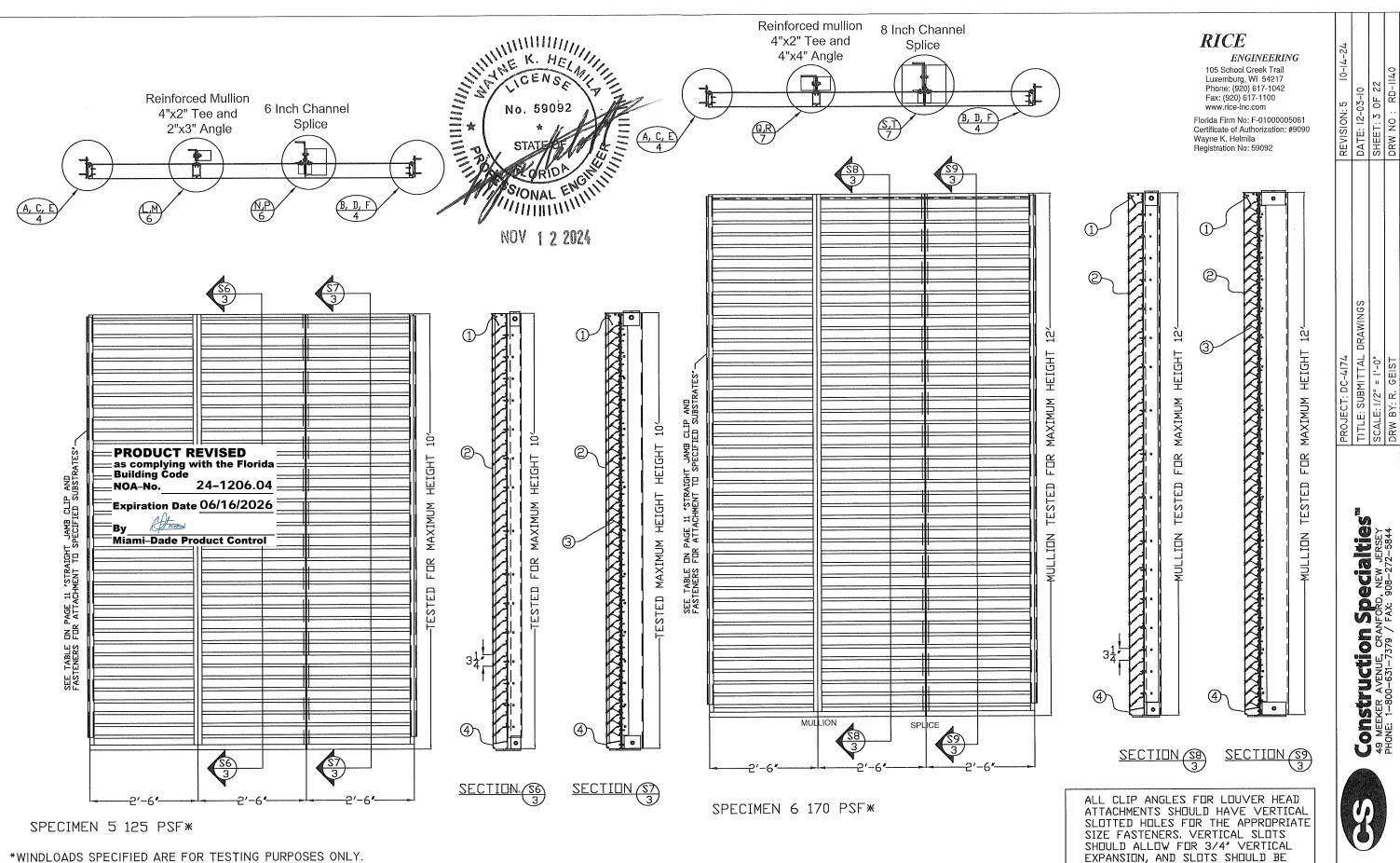
- 1. Statement letter of code conformance to 8th edition (2023) of the FBC issued Rice Engineering, dated 11/12/2024, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 11/12/2024, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 24-1206.04 Expiration Date: June 16, 2026

Approval Date: January 23, 2025



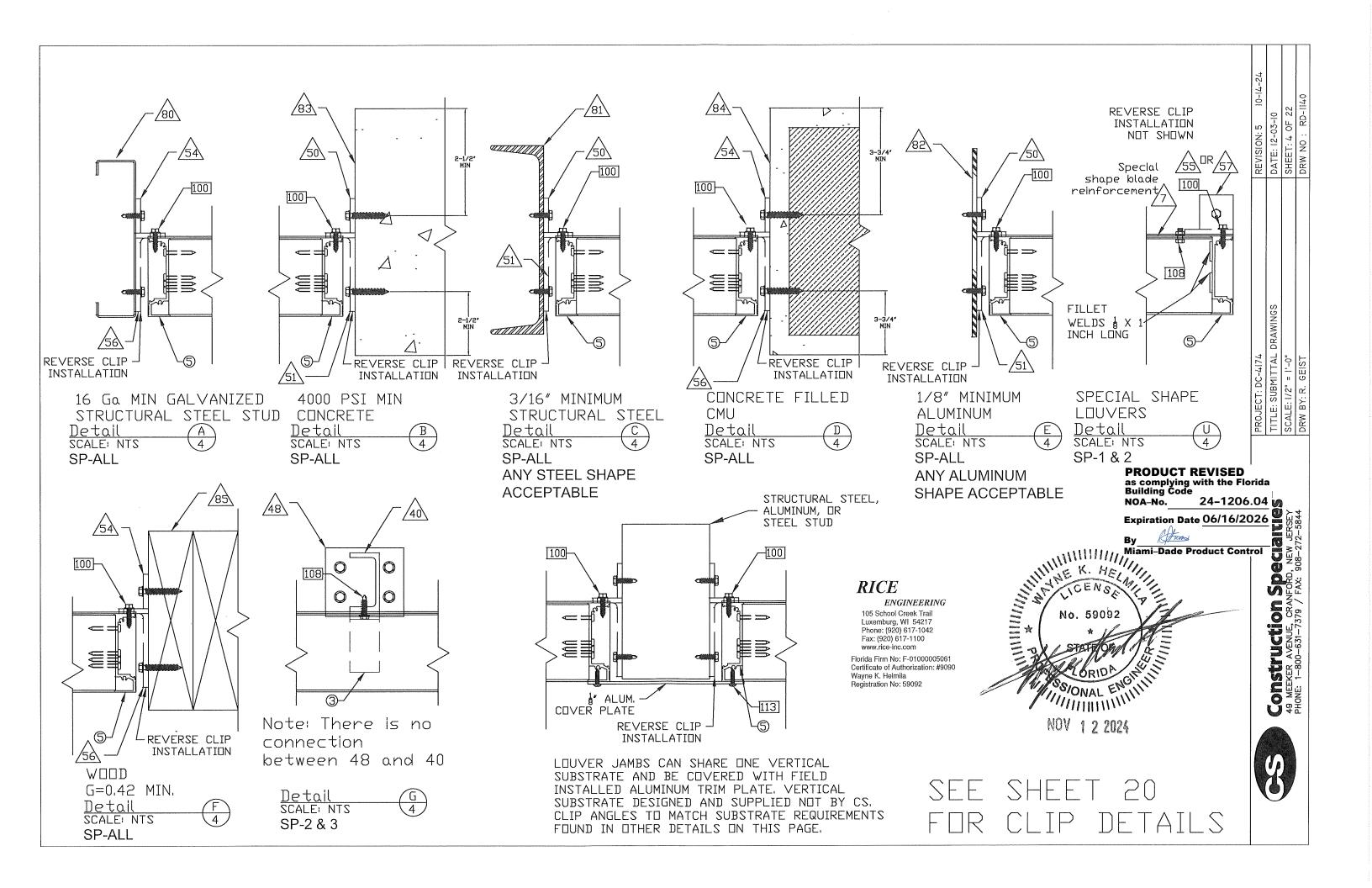


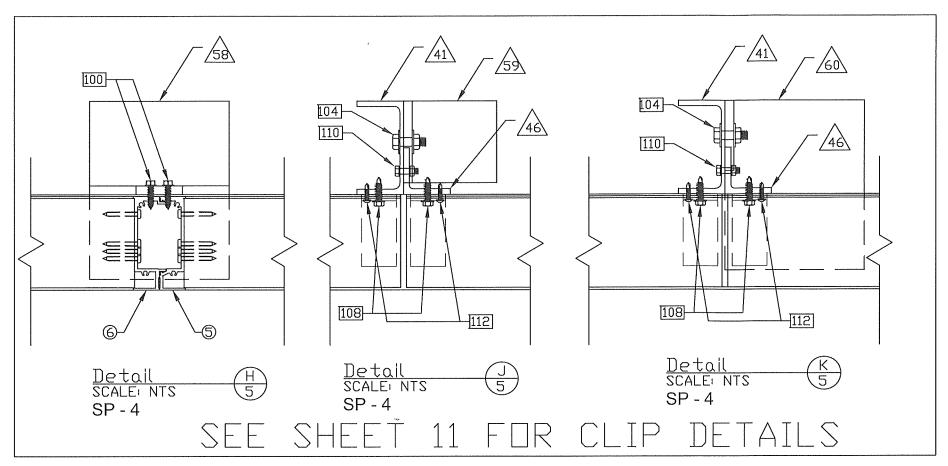


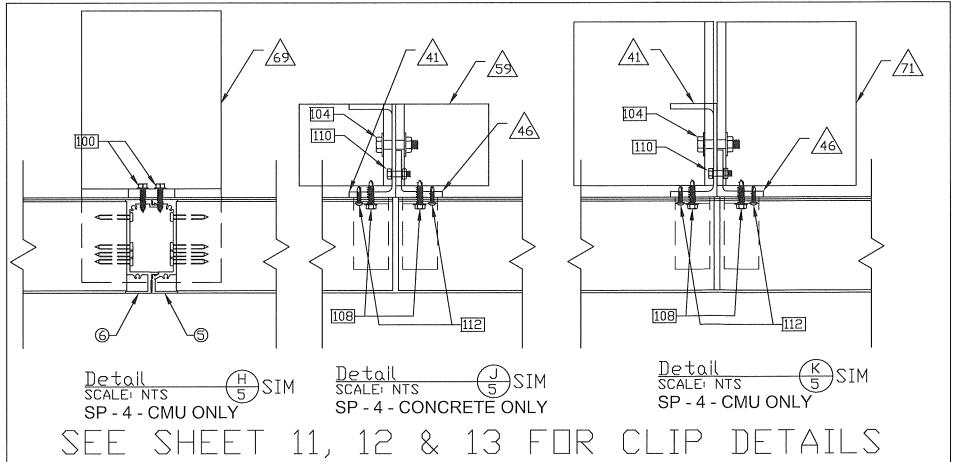
SEE TABLES 2,3 AND 4 ON SHEET 21 FOR MAXIMUM BLADE LENGTH AND STIFFENER SPACING ACCORDING TO DESIGN WINDLOAD

FOR ALL APPLICATIONS.

EXPANSION, AND SLOTS SHOULD BE CENTERED IN SAME LOCATION AS STANDARD HOLE LOCATION.





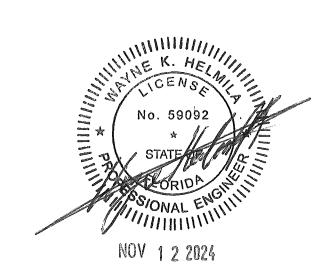


RICE

ENGINEERING

105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092



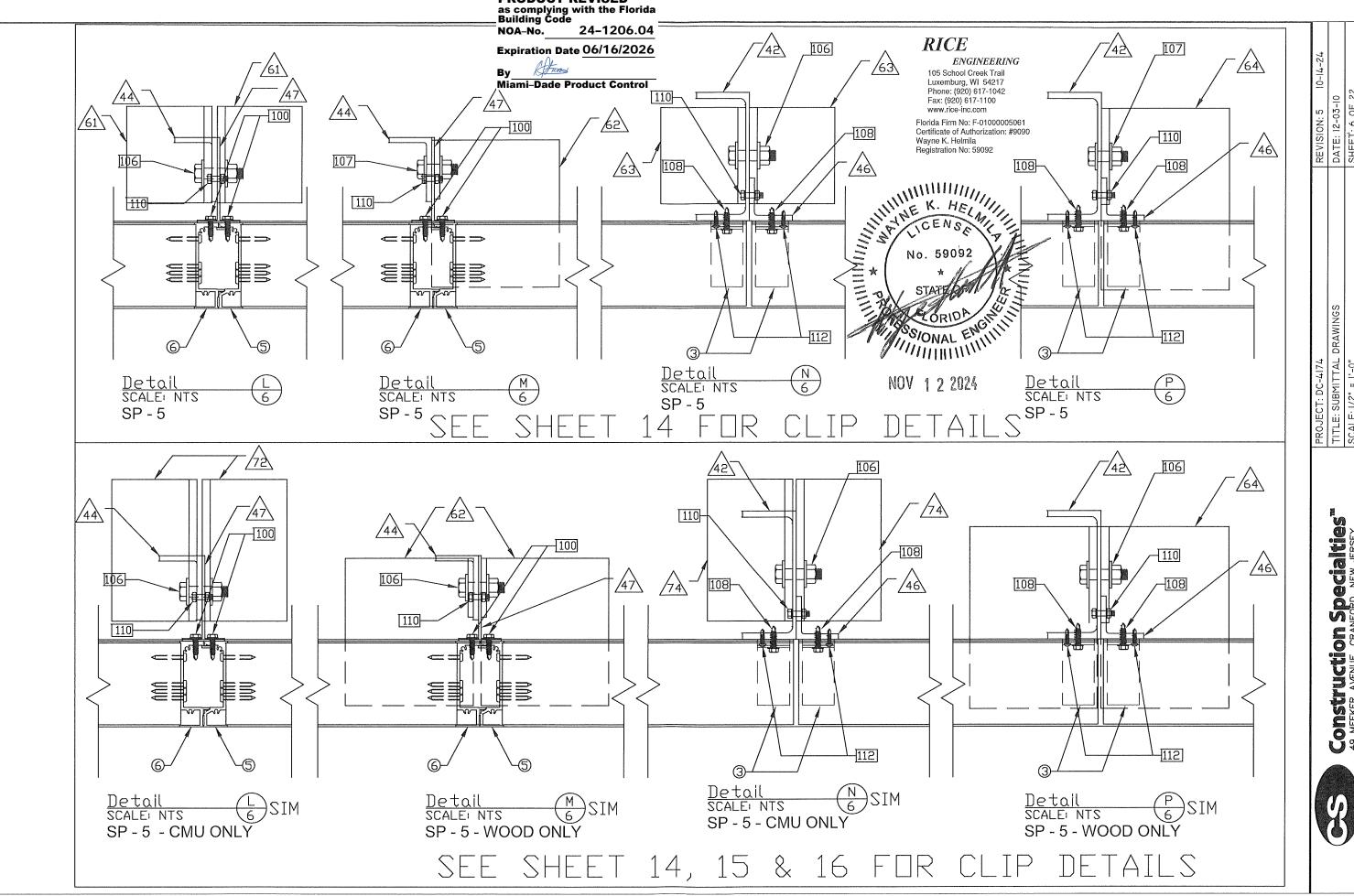
PRODUCT REVISED
as complying with the Florida
Building Code 24-1206.04 NOA-No.

Expiration Date 06/16/2026

Huns Miami-Dade Product Control DRAWINGS

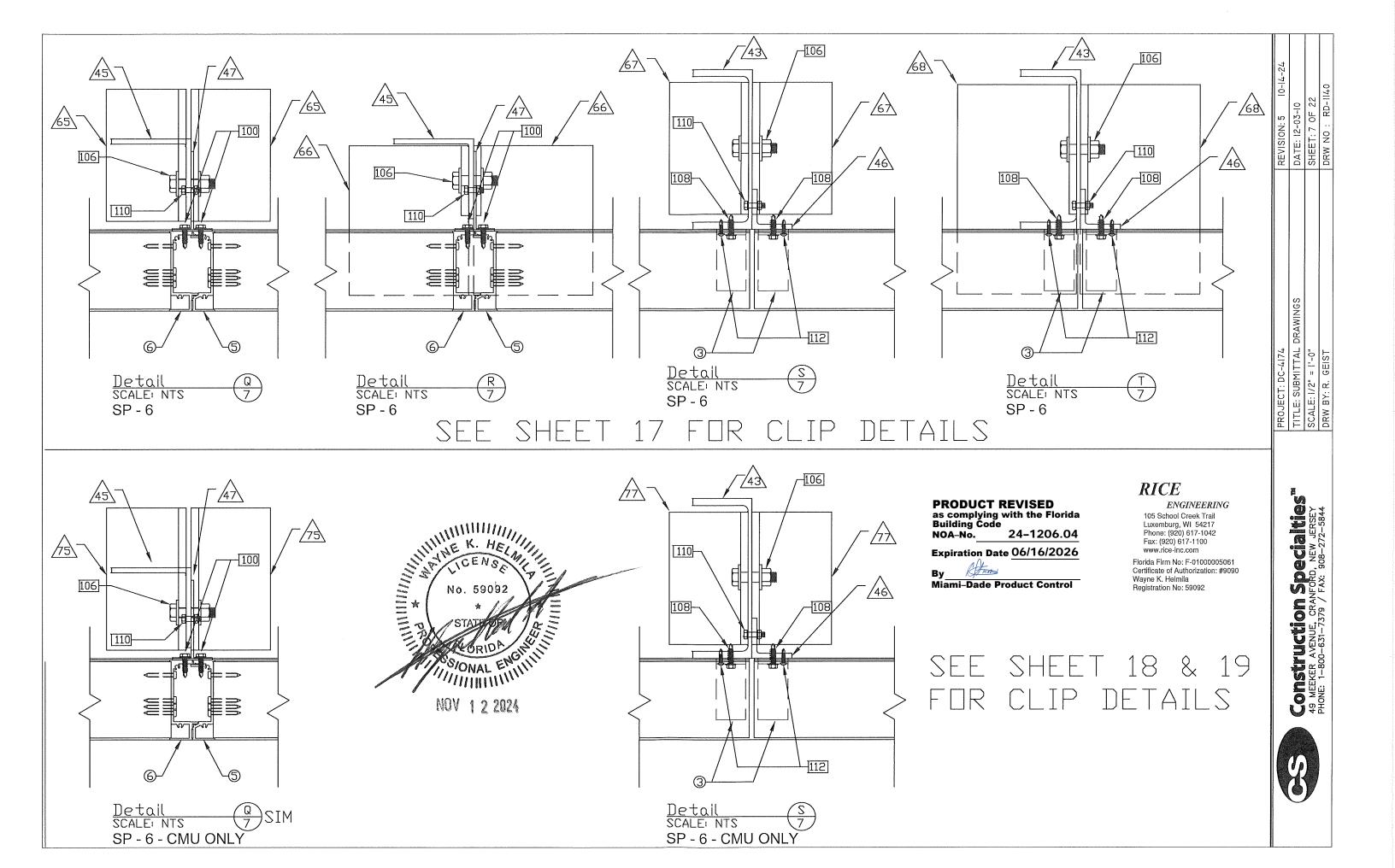
Construction Specialties 49 MEEKER AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7379 / FAX: 908-272-5844





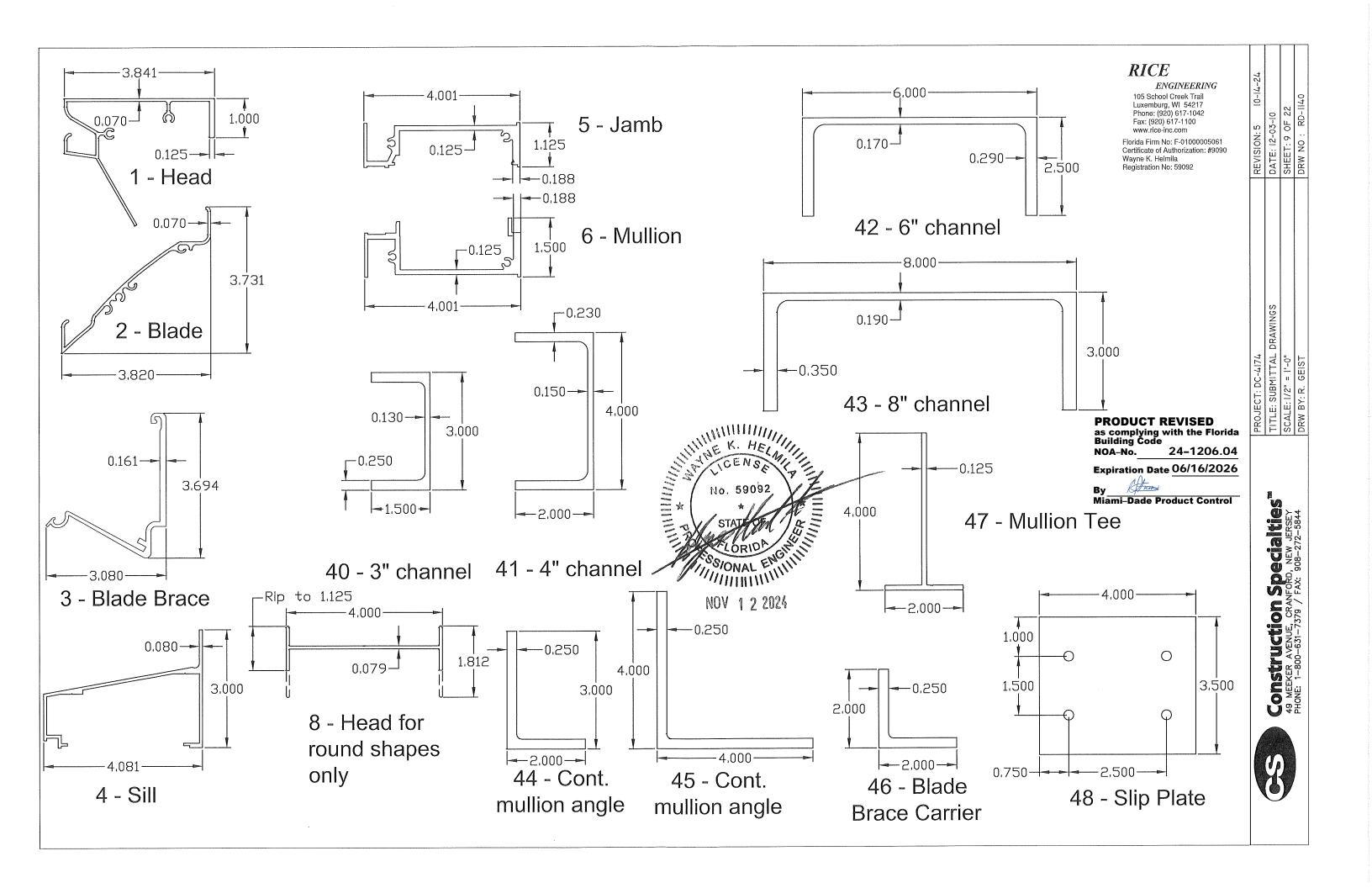
PRODUCT REVISED

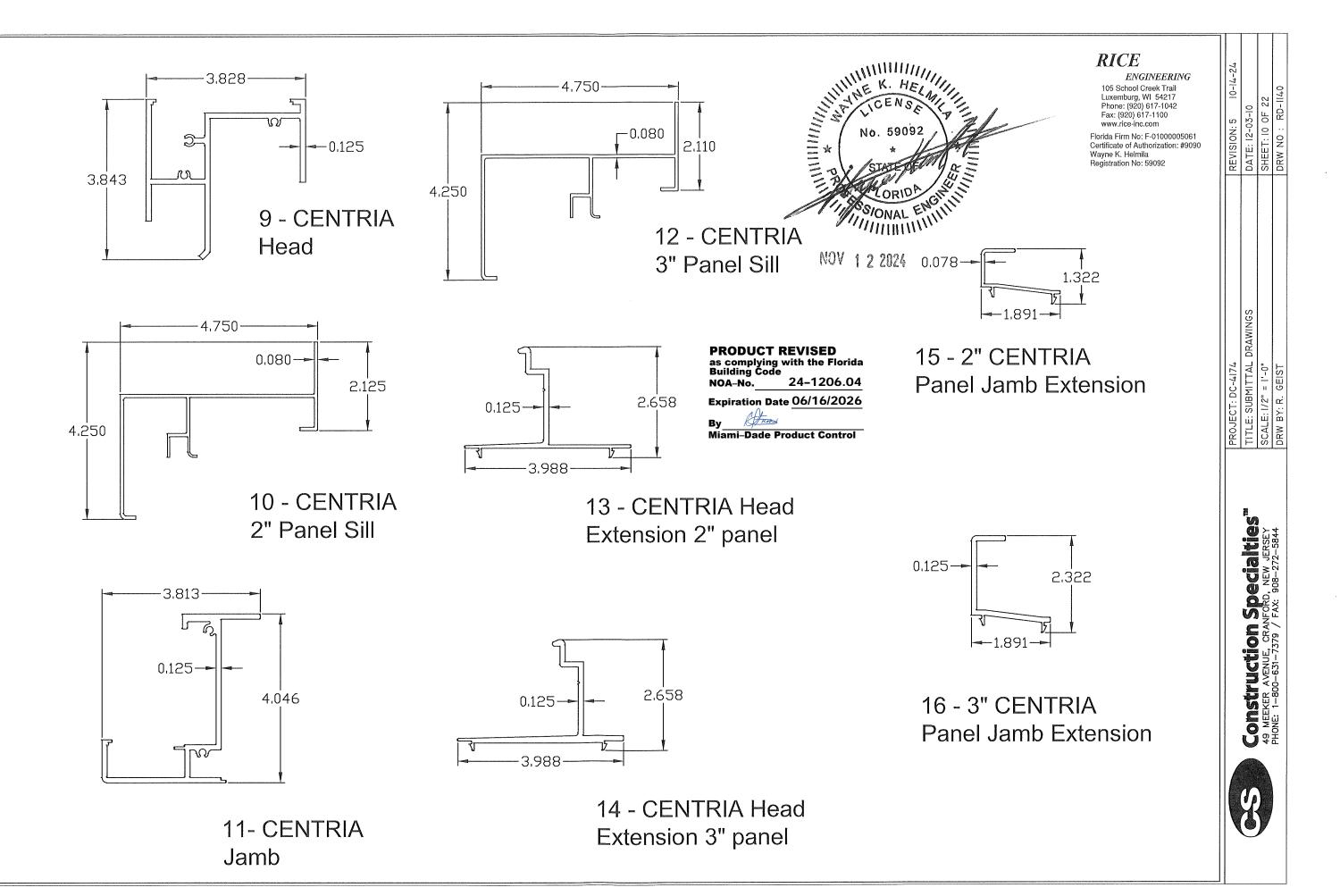
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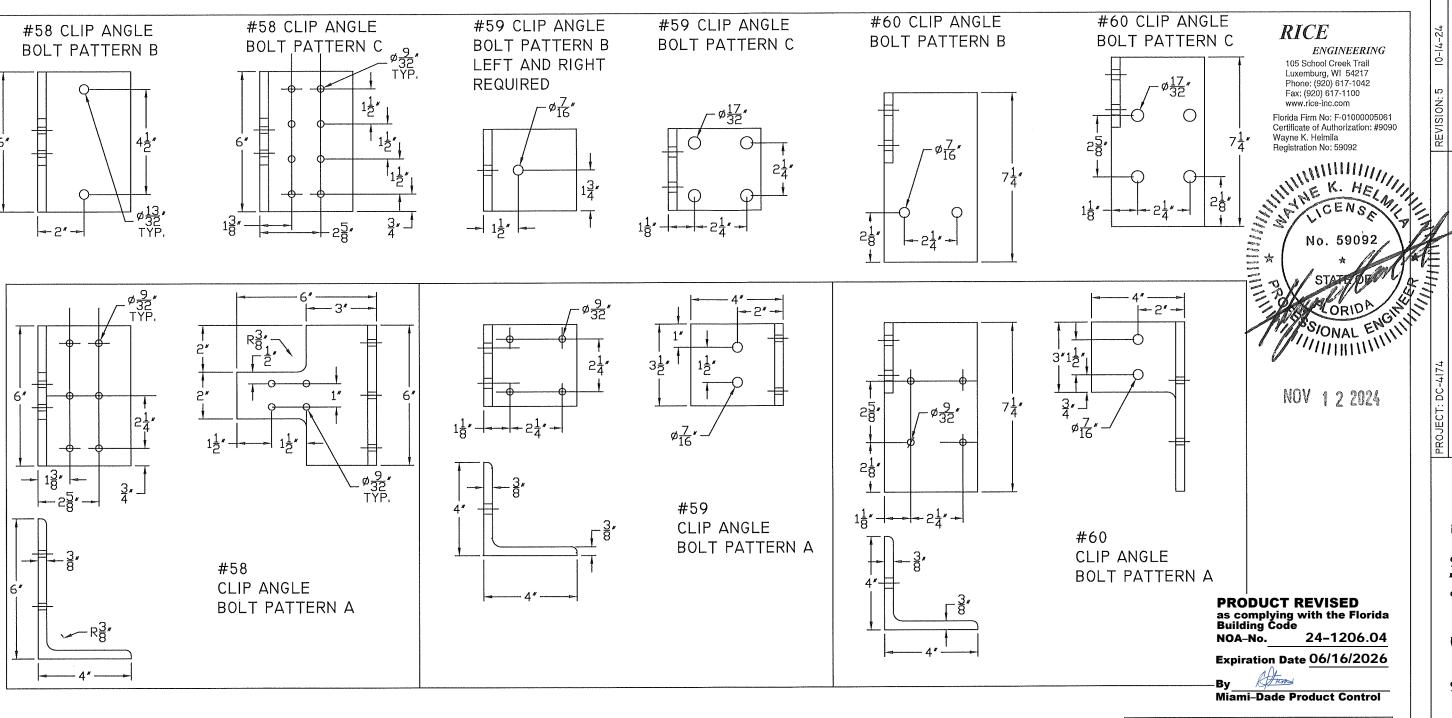


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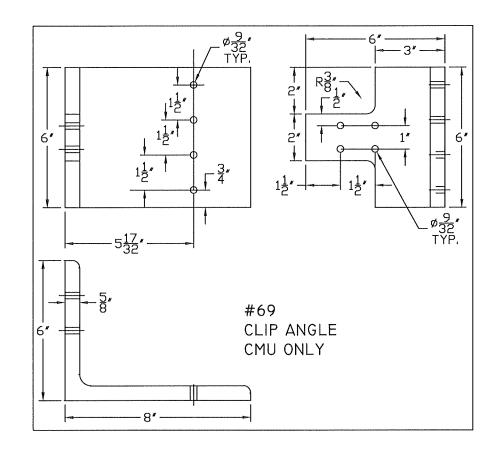
					MULLION CLIP FASTENERS	SPECIMEN 4					
Clip ID Number	Number of clips required	Support	Wood	Cold formed steel, minimum 16 gauge	Structural steel - minimum 3/16 Aluminum Minimum 1/8"		Aluminum or Structural Steel - Tapped or with nuts and bolts $\min \frac{1}{4}$ " thick	4000 psi concrete *Assume: Min. 12" deep by 8" tall normal weight concrete			
58	1 per connection	Standard mullion	embedded 2" with 1" edge	1/4 - 14 thread forming or self drilling S.S. screw min 8" edge distance. Bolt Pattern C.	drilling S.S. screw with 3" min	1/4 - 14 thread forming or self drilling S.S. screw with ½" min edge distance. Bolt Pattern C.	3/8 - 16 plated Condition CW S.S. bolts. Bolt Pattern B.	$\frac{2}{8}$ " Hilti KWIK Bolt TZ2 SS 304 with minimum edge distance of 4", embedment minimum of 2". Bolt pattern B			
59	1 per connection typ. Left and right required for 4000 psi concrete	4 inch channel splice	3" with 1" edge distance.	1/4 - 14 thread forming or self drilling S.S. screw min ³ / ₈ " edge distance, Bolt Pattern A.	drilling S.S. screw with $\frac{3}{8}$ min	$1/4$ - 14 thread forming or self drilling S.S. screw with $\frac{1}{2}$ " min edge distance. Bolt Pattern A.	1/4 - 20 plated Condition CW S.S. bolts. Bolt Pattern A.	🐉 Hilti KWIK HUS EZ SS 316 (1) per clip, with minimum edge distance of 4 ", embedment minimum of 2". Bolt pattern B			
60	1 per connection	4 inch channel splice	3" with 1-1/2" edge	$1/4 - 14$ thread forming or self drilling S.S. screw min $\frac{3}{8}$ " edge distance. Bolt Pattern A.	drilling S.S. screw with 3" min	4-20 thread forming or self 1/4 - 14 thread forming or self 1/4 - 20 plated Condition CW S.S. 4-20 thread forming or self 1/4 - 20 plated Condition CW S.S. 4-3 plate Roll Pattern Δ 1/4 - 20 plated Condition CW S.S.					

ALL CLIP ANGLES FOR LOUVER HEAD ATTACHMENTS SHOULD HAVE VERTICAL SLOTTED HOLES FOR THE APPROPRIATE SIZE FASTENERS. VERTICAL SLOTS SHOULD ALLOW FOR 3/4" VERTICAL EXPANSION, AND SLOTS SHOULD BE CENTERED IN SAME LOCATION AS STANDARD HOLE LOCATION.

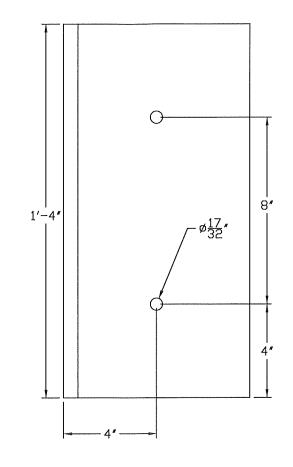
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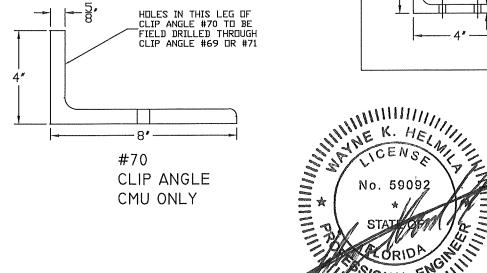
Construction Specialties 49 MEEKER AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7379 / FAX: 908-272-5844

DRAWINGS



	MULLION C	CLIP FASTENERS CM	U SUBSTRATES ONLY
Clip ID Number	Number of clips required	Support	2000* PSI Grout filled CMU
69/70	1 per connection	Standard mullion	½ Hilti KWIK HUS EZ Carbon Steel space anchors with minimum edge distance of 4", embedment minimum of 4½". Seal anchors with Liquid Prosoco Flashing.
71/70	Left and right required	4 inch channel splice	½ Hilti KWIK HUS EZ Carbon Steel space anchors with minimum edge distance of 4", embedment minimum of 4½". Seal anchors with Liquid Prosoco Flashing.





Registration No: 59092 - ø<u>9</u>″ (fleld drilled) mln #71 CLIP ANGLE LEFT AND RIGHT REQUIRED CMU ONLY

> **PRODUCT REVISED** as complying with the Florida Building Code 24-1206.04 NOA-No.

RICE

ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

7"

min

Florida Firm No: F-01000005061 Certificate of Authorization: #9090

Expiration Date 06/16/2026

Miami-Dade Product Control

SEE SHEET 13 FOR INSTALLATION LOCATION OF ANCHORS INTO CMU WALLS

SIONAL ENGILLI NOV 1 2 2024

ALL CLIP ANGLES FOR LOUVER HEAD ATTACHMENTS SHOULD HAVE VERTICAL SLOTTED HOLES FOR THE APPROPRIATE SIZE FASTENERS, VERTICAL SLOTS SHOULD ALLOW FOR 3/4" VERTICAL EXPANSION, AND SLOTS SHOULD BE CENTERED IN SAME LOCATION AS STANDARD HOLE LOCATION.

PROJECT: DC-4174	REVISION: 5 10-14-24
TITLE: SUBMITTAL DRAWINGS	DATE: 12-03-10
SCALE: 3" = 1'-0"	SHEET: 12 OF 22
DRW BY: R. GEIST	DRW NO: RD-1140

Construction SpecialtiesTH
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-5844



ENGINEERING

105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

DATE: SHEET DRW N

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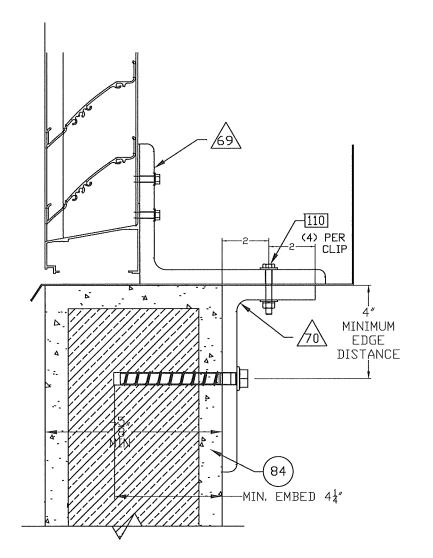
PRODUCT REVISED as complying with the Florida Building Code

24-1206.04 NOA-No. Expiration Date 06/16/2026

Stuns Miami-Dade Product Control

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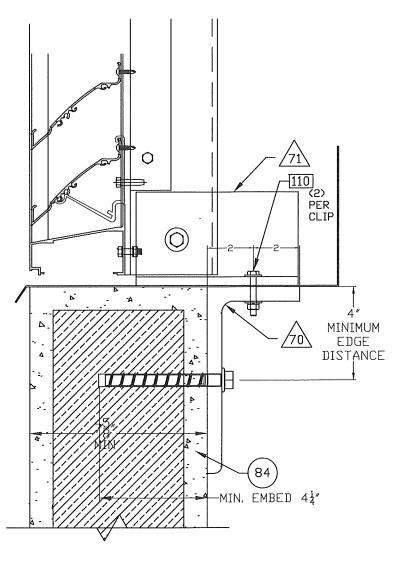
Detail SCALE: NTS SP - 4 - CMU ONLY



Detail

SCALE: NTS

SP - 4 - CMU ONLY

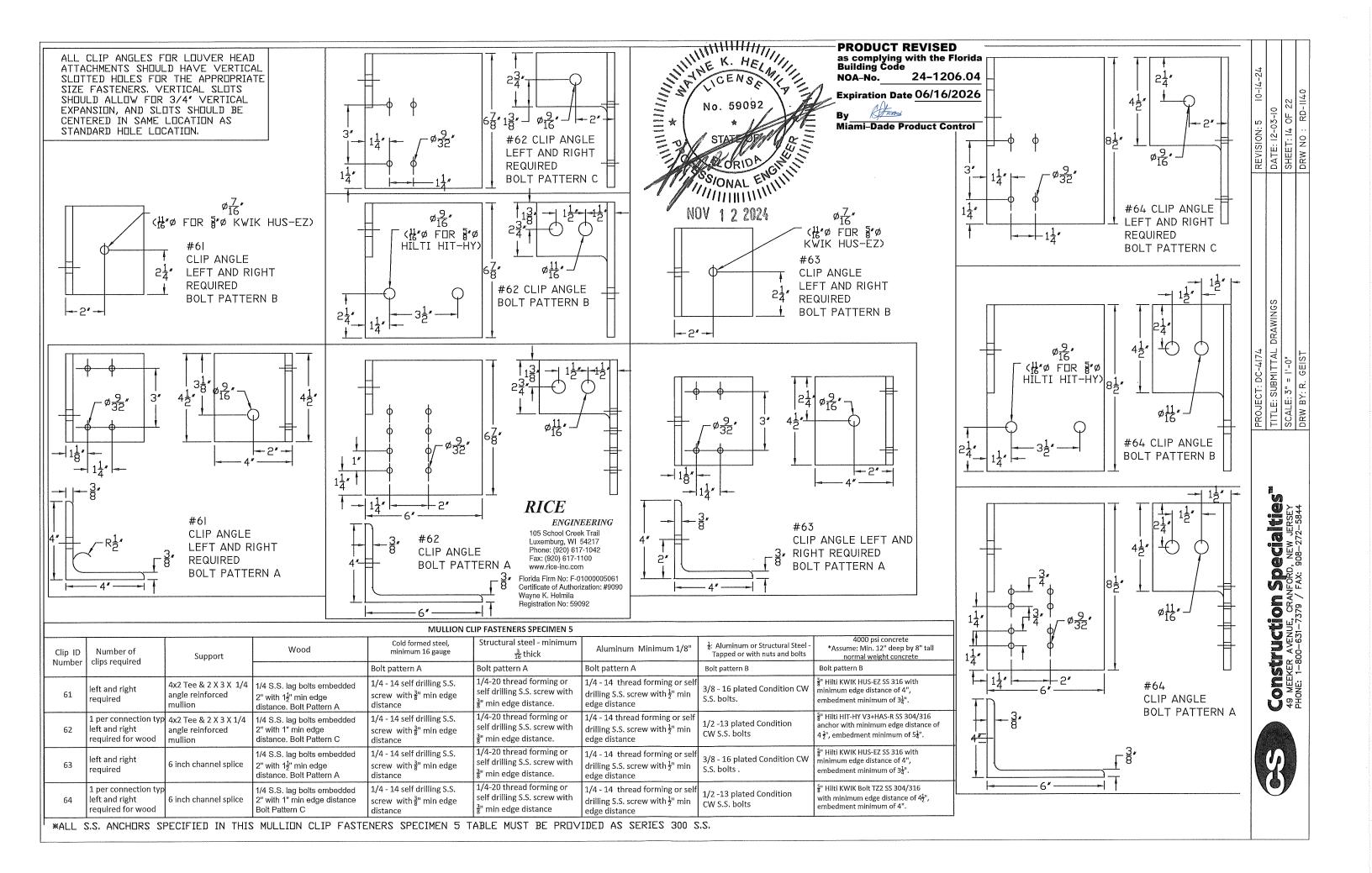


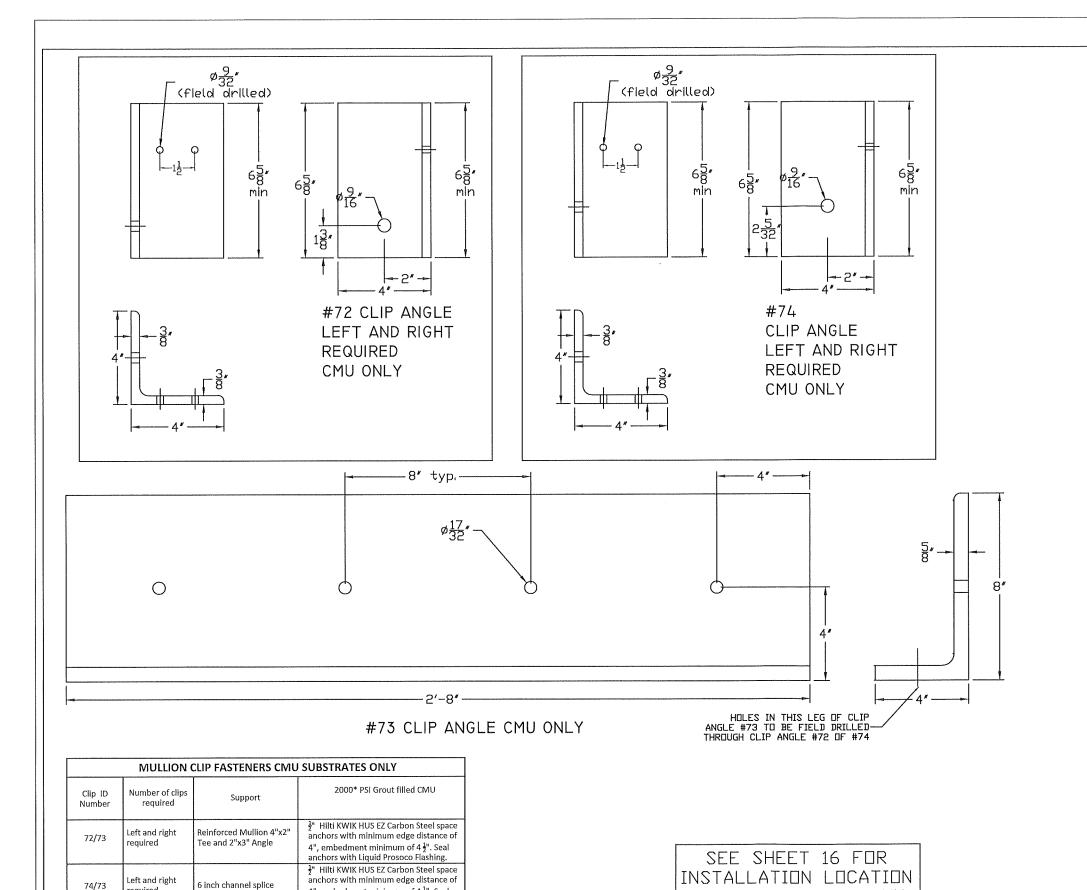
FOR ALL CMU HEAD/SILL CONNECTIONS, CMU ANCHORS INSTALLED ON 8" O.C. IN CENTER OF CELLS HORIZONTALLY, THEREFORE ALL CLIPS MOUNTING TO BACK OF CMU CAN BE OFFSET CENTER OF LOUVER MULLION BY 4" IN EITHER DIRECTION TO ACCOMODATE THIS REQUIREMENT, HORIZONTAL LEG OF CMU ANGLES TO BE FIELD DRILLED THROUGH EXISTING HOLES ON LOUVER ANGLES

THESE ATTACHMENT DETAILS WORK FOR BOTH HEAD AND SILL CONDITIONS.



Construction SpecialtiesTH
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-5844





OF ANCHORS INTO CMU

WALLS

required

4", embedment minimum of 4 ½". Seal

anchors with Liquid Prosoco Flashing.

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ENGINEERING

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Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

No. 59° SONAL ENGINE

NOV 1 2 2024

PRODUCT REVISED

as complying with the Florida Building Code 24-1206.04 NOA-No.

Expiration Date 06/16/2026

Miami-Dade Product Control

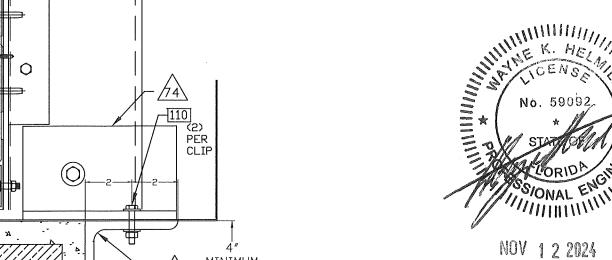
ALL CLIP ANGLES FOR LOUVER HEAD ATTACHMENTS SHOULD HAVE VERTICAL SLOTTED HOLES FOR THE APPROPRIATE SIZE FASTENERS, VERTICAL SLOTS SHOULD ALLOW FOR 3/4" VERTICAL EXPANSION, AND SLOTS SHOULD BE CENTERED IN SAME LOCATION AS STANDARD HOLE LOCATION.

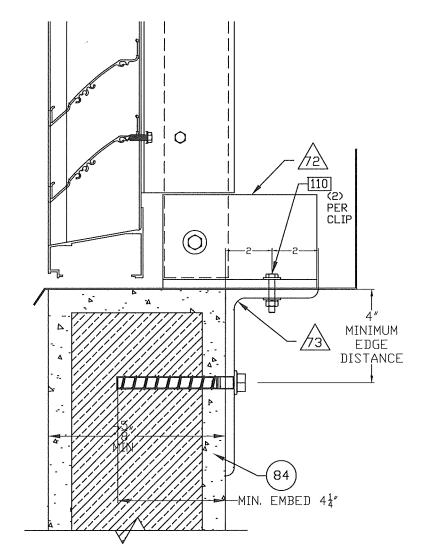


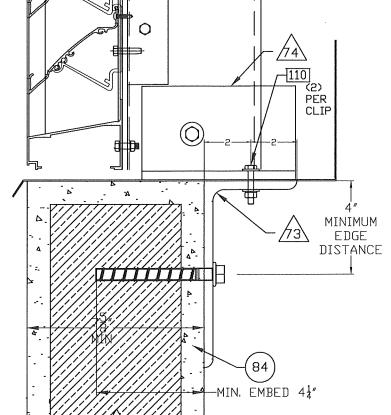












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FOR ALL CMU HEAD/SILL CONNECTIONS, CMU ANCHORS INSTALLED ON 8" O.C. IN CENTER OF CELLS HORIZONTALLY, THEREFORE ALL CLIPS MOUNTING TO BACK OF CMU CAN BE OFFSET CENTER OF LOUVER MULLION BY 4" IN EITHER DIRECTION TO ACCOMODATE THIS REQUIREMENT, HORIZONTAL LEG OF CMU ANGLES TO BE FIELD DRILLED THROUGH EXISTING HOLES ON LOUVER ANGLES

THESE ATTACHMENT DETAILS WORK FOR BOTH HEAD AND SILL CONDITIONS,

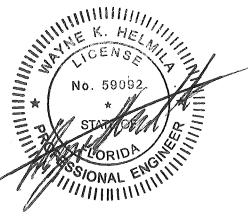
ALL CLIP ANGLES FOR LOUVER HEAD ATTACHMENTS SHOULD HAVE VERTICAL SLOTTED HOLES FOR THE APPROPRIATE SIZE FASTENERS, VERTICAL SLUTS SHOULD ALLOW FOR 3/4" VERTICAL EXPANSION, AND SLOTS SHOULD BE CENTERED IN SAME LOCATION AS STANDARD HOLE LOCATION.

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Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wavne K. Helmila Registration No: 59092



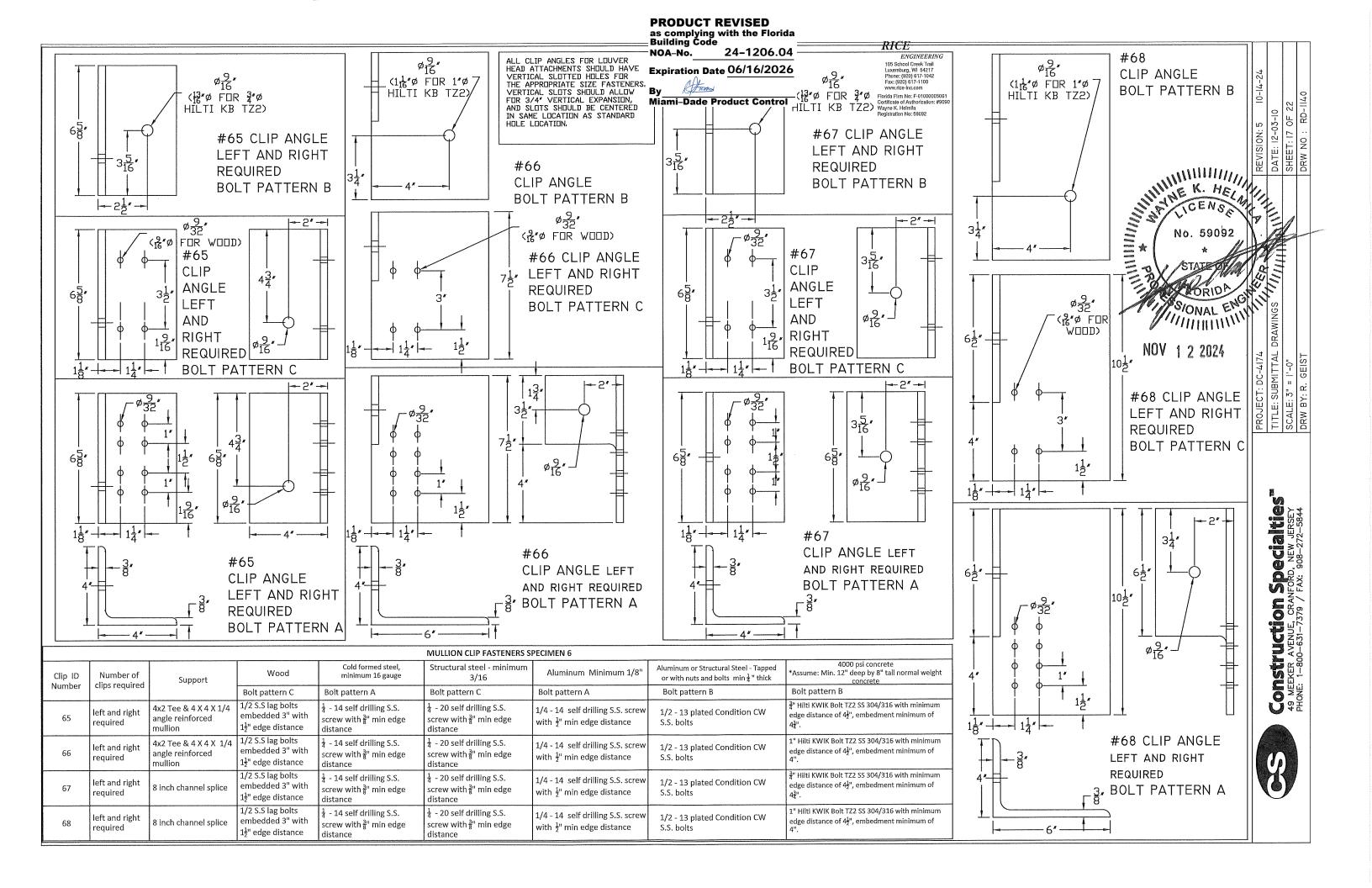
PRODUCT REVISED as complying with the Florida Building Code 24-1206.04 NOA-No.

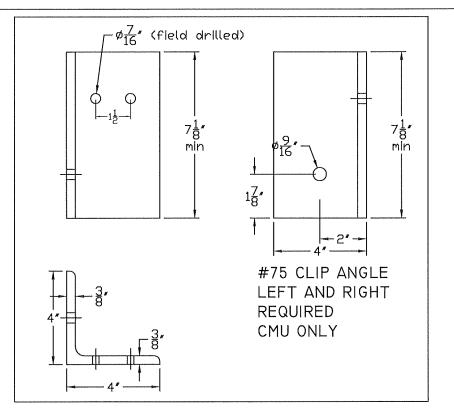
Expiration Date 06/16/2026

Miami-Dade Product Control



Construction Specialties 49 MEEKER AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7379 / FAX: 908-272-5844



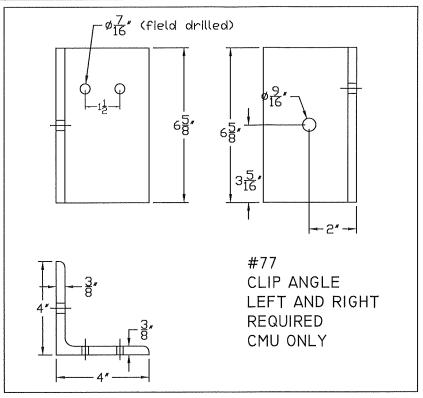


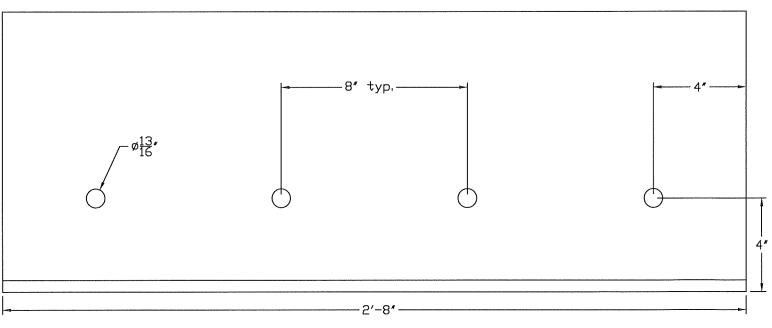
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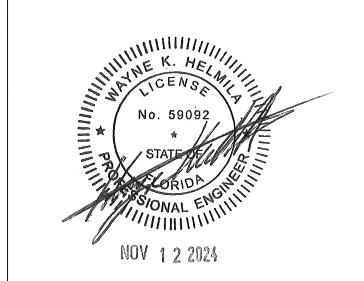
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77/76

Number







PRODUCT REVISED
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Expiration Date 06/16/2026

Miami-Dade Product Control

#76 CLIP ANGLE CMU ONLY (MATERIAL CAN BE $\frac{3}{8}$ " GALV. STEEL [A36] OR $\frac{1}{2}$ " ALUMINUM [5052-H32])

HOLES IN THIS LEG OF CLIP -ANGLE #76 TO BE FIELD DRILLED THROUGH CLIP ANGLE #75 OR #77

MULLION C	LIP FASTENERS CMU	SUBSTRATES ONLY
Number of clips required	Support	2000* PSI Grout filled CMU
Left and right required	Reinforced Mullion 4"x2" Tee and 4"x4" Angle	³ " Hilti HIT-HY 100 Adhesive anchors with threaded carbon steel A36 rods. minimum edge distance of 4", embedment minimum of 6 ³ / ₄ ". Seal anchors with Liquid Prosoco Flashing.
Left and right required	8 inch channel splice	$\frac{3}{4}$ " Hilti HIT-HY 100 Adhesive anchors with threaded carbon steel A36 rods. minimum edge distance of 4", embedment minimum of $6\frac{3}{4}$ ". Seal anchors with Liquid Prosoco Flashing.

ALL CLIP ANGLES FOR LOUVER HEAD ATTACHMENTS SHOULD HAVE VERTICAL SLOTTED HOLES FOR THE APPROPRIATE SIZE FASTENERS, VERTICAL SLOTS SHOULD ALLOW FOR 3/4" VERTICAL EXPANSION, AND SLOTTS SHOULD BE CENTERED IN SAME LOCATION AS STANDARD HOLE LOCATION.

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ENGINEERING

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Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

PROJECT: DC-4174	REVISION: 5	1-01
TITLE: SUBMITTAL DRAWINGS	DATE: 12-03-10	
SCALE: 3" = 1'-0"	SHEET: 18 OF 22	22
DRW BY: R. GEIST	DRW NO : RD-1140	0711

Construction Specialties 49 MEEKER AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7379 / FAX: 908-272-5844





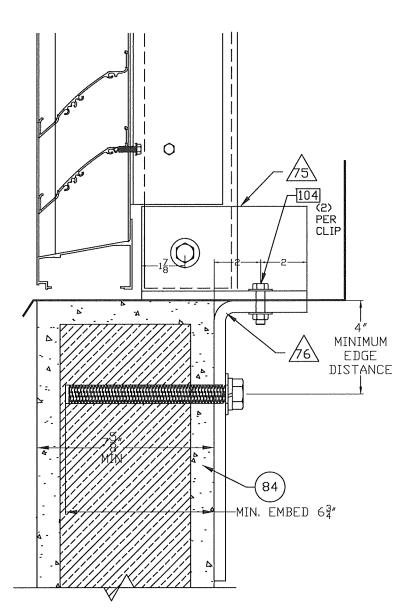


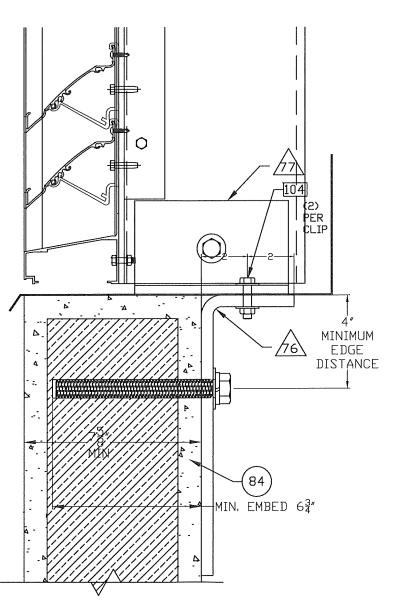
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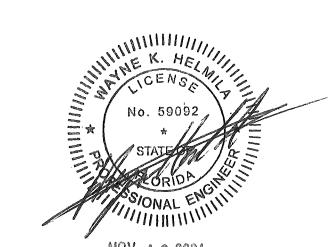
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Florida Firm No: F-0100005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092







NOV 1 2 2024

PRODUCT REVISED

as complying with the Florida Building Code NOA-No. 24-1206.04

Expiration Date 06/16/2026

By Hun

Miami-Dade Product Control

FOR ALL CMU HEAD/SILL CONNECTIONS, CMU ANCHORS INSTALLED ON 8" O.C. IN CENTER OF CELLS HORIZONTALLY, THEREFORE ALL CLIPS MOUNTING TO BACK OF CMU CAN BE OFFSET CENTER OF LOUVER MULLION BY 4" IN EITHER DIRECTION TO ACCOMODATE THIS REQUIREMENT, HORIZONTAL LEG OF CMU ANGLES TO BE FIELD DRILLED THROUGH EXISTING HOLES ON LOUVER ANGLES

THESE ATTACHMENT DETAILS WORK FOR BOTH HEAD AND SILL CONDITIONS.

ALL CLIP ANGLES FOR LOUVER HEAD ATTACHMENTS SHOULD HAVE VERTICAL SLOTTED HOLES FOR THE APPROPRIATE SIZE FASTENERS. VERTICAL SLOTS SHOULD ALLOW FOR 3/4" VERTICAL EXPANSION, AND SLOTS SHOULD BE CENTERED IN SAME LOCATION AS STANDARD HOLE LOCATION.



PROJECT: DC-4174

TITLE: SUBMITTAL DRAWINGS

SCALE: 3" = 1'-0"

DATE:

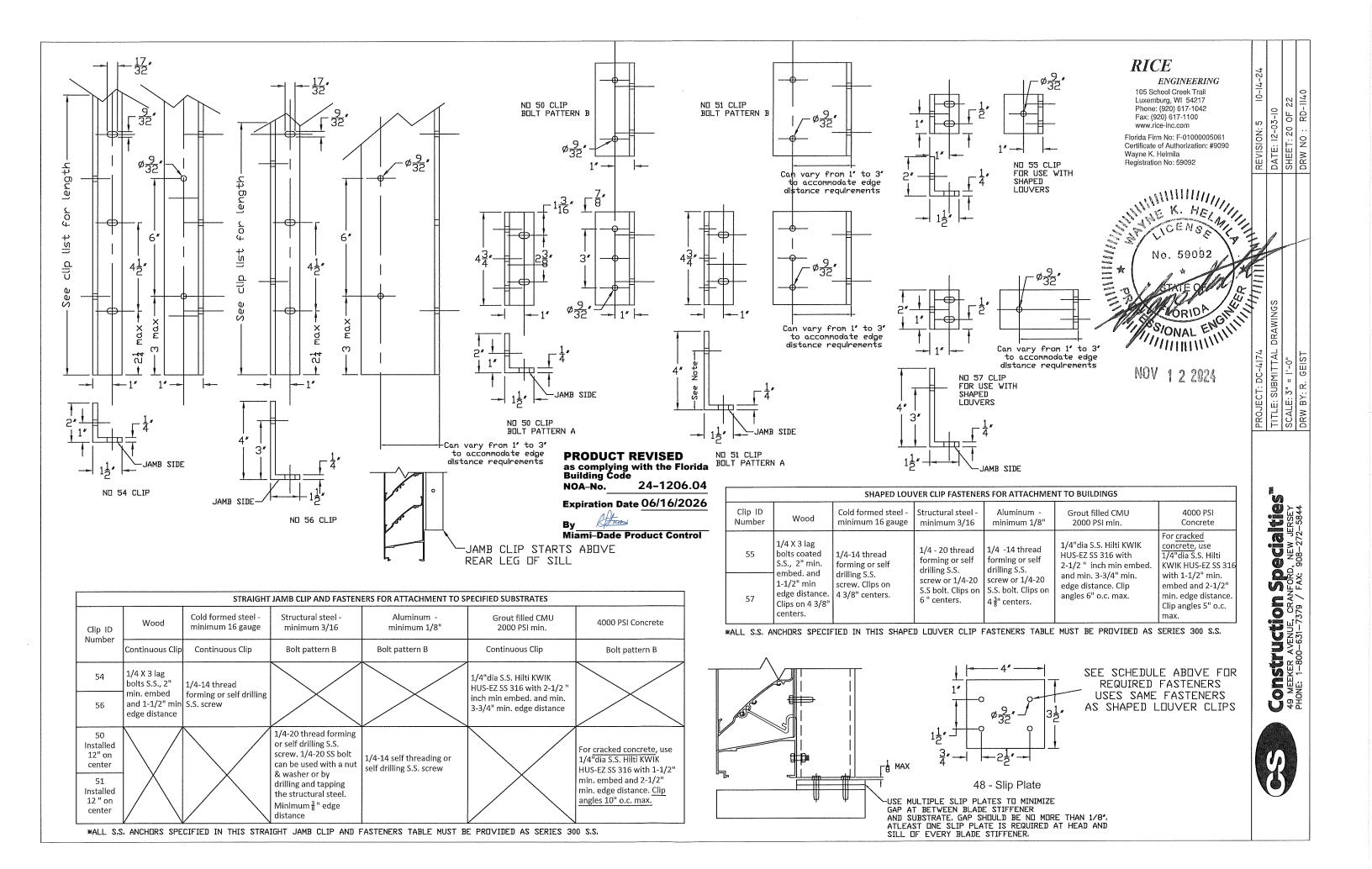
DATE:

SCALE: 5" = 1'-0"

DRW BY: R. GEIST

DRW N

Construction Specialties 49 MEKER AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7379 / FAX: 908-272-5844



- 1) Determine the required mullion spacing and louver height either from structural or architectural considerations.
- 2) Starting with Mullion Table 1, under the job wind load go down through the tables until the required opening height is found. The heading at the top of the table will indicate the detail to be used for the mullion. The same tables apply to visible or hidden mullions (splices). Once the required height has been found for the job windload, move left along the row to find the corresponding mullion/splice distance. This will give you your section height and width. Proceed to step 3 for any additional "stiffener" supports required.
- 3) From table 4, read the panel horizontal span (mullion spacing from Step 2) and read the number of stiffeners required under the design wind load. It may be necessary to change the mullion spacing if the allowable blade span falls out side the table values, if so go back and repeat step 2.
- 4) It is possible to start with the stiffener tables to find a panel width (mullion spacing), and then go to the mullion tables to verify the mullion or chanel, detail and allowable height.

Mι	ullion			ALL	OWABLE	HEIGHT F	OR STAN	DARD MI	JLLION D	ETAIL H/4	AND 4 IN	NCH CHAI	NNEL DET	AILS J/4 -	K/4		
Ta	ble 1								Wind L	oad PSF							
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
	24	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	7.2	6.6	6.1	5.7	5.3	5.0	4.7
	30	8.5	8.5	8.5	8.5	8.5	8.5	8.0	7.1	6.4	5.8	5.3	4.9	4.6	4.3	4.0	3.8
oillio	36	8.5	8.5	8.5	8.5	8.5	7.6	6.6	5.9	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1
to mullion	42	8.5	8.5	8.5	8.5	7.6	6.5	5.7	5.1	4.6	4.1	3.8	3.5	3.3	3.0	2.8	2.7
mullion	48	8,5	8.5	8.5	8.0	6.6	5.7	5.0	4.4	4.0	3.6	3.3	3.1	2.8	2.7	2.5	2.3
I I	54	8,5	8.5	8.5	7.1	5,9	5.1	4.4	3.9	3.5	3.2	3.0	2.7	2.5	2.4	2.2	2.1
mullion or	60	8.5	8.5	8.0	6.4	5.3	4.6	4.0	3.5	3.2	2.9	2.7	2.5	2.3	2.1	2.0	1.9
l illi	66	8.5	8.5	7.2	5.8	4.8	4.1	3.6	3.2	2.9	2.6	2.4	2.2	2.1	1.9	1.8	
to T	72	8.5	8.5	6.6	5.3	4.4	3.8	3.3	3.0	2.7	2.4	2.2	2.0	1.9	1.8		
dme	78	8.5	8.2	6.1	4.9	4.1	3.5	3.1	2.7	2.5	2.2	2.0	1.9	1.8			
from jamb	84	8.5	7.6	5.7	4.6	3.8	3.3	2.8	2.5	2.3	2.1	1.9	1.8		PR	ODU	CT RE
1 4	90	8.5	7.1	5.3	4,3	3,5	3,0	2.7	2.4	2.1	1.9	1.8				omply	ing wit

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VISED th the Florida **Building Code** 24-1206.04 NOA-No.

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114

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12.0

12.0

Expiration Date 06/16/2026

Huns Miami-Dade Product Control

Mυ	ıllion	ALLOV	VABLE HE	IGHT FOR	REINFO	RCED MUI	LLION 4 X	2 TEE WI	TH 2 X 3	X ¼ ANGL	E DETAILS	s L/5 - M/	5 AND 6	INCH CH	ANNEL DI	TAILS N	′5 - P/5		(in.) From Jamb to mullion to mullic	66
Tal	ole 2								Wind L	oad PSF									n Jar	72
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170		Fror	78
	24	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.2		(i.)	84
	30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.6	8,9	8.3	7,8	7.4		pan	90
mullion	36	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.7	8.0	7.4	6.9	6.5	6.1		tal S	96
\$ E	42	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	8.9	8.1	7.4	6.9	6.4	6.0	5.6	5.3		izon	102
ion	48	10.0	10.0	10.0	10.0	10.0	10.0	9.8	8.7	7.8	7.1	6.5	6.0	5.6	5.2	4.9	4.6		Panel Horizontal Span	108
or mullion	54	10.0	10.0	10.0	10.0	10.0	9.9	8.7	7.7	6.9	6.3	5.8	5.3	5.0	4.6	4.3	4.1		ane	114
n or	60	10.0	10.0	10.0	10.0	10.0	8.9	7.8	6.9	6.3	5.7	5.2	4.8	4.5	4.2	3.9	3.7			120
mullion	66	10.0	10.0	10.0	10.0	9.5	8.1	7.1	6.3	5.7	5.2	4.7	4.4	4.1	3,8	3.6			,	
to m	72	10.0	10.0	10.0	10.0	8.7	7.4	6.5	5.8	5.2	4.7	4.3	4.0	3.7	3.5		111	ME K. HE	11,	NC
	78	10,0	10.0	10.0	9.6	8.0	6.9	6.0	5.3	4.8	4.4	4.0	3.7	3.4		•	San Barrel	No. 59092		NC be
from jamb	84	10.0	10.0	10.0	8.9	7.4	6.4	5.6	5.0	4.5	4.1	3.7	3.4				2 5		Y	, pe
t	90	10.0	10.0	10.0	8.3	6.9	6.0	5.2	4.6	4.2	3,8	3.5				han brans brans	: /	No. 59092	V /-	
Panel span (in.)	96	10.0	10.0	9.8	7.8	6.5	5.6	4.9	4.3	3.9	3.6					Annexa economi	*	* 1/ 6	W.	Cuprecia Consider
pan	102	10.0	10.0	9.2	7.4	6.1	5.3	4.6	4.1	3.7		•				مارسته محمده اعترب	\	STATE	I_{\sim} \equiv	Maria Maria
nel	108	10.0	10.0	8.7	6.9	5.8	5.0	4.3	3.9	3,5						ورون دی	EMX		45	-
P G	114	10.0	10.0	8.2	6.6	5.5	4.7	4.1	3.7		•					,		WORLD !		
	120	10.0	10.0	7.8	6.3	5.2	4.5	3,9	3,5]								SONAL ENGLY	111,	

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Mai	llion	ALLOV	VABLE HE	IGHT FOR	R REINFO	RCED MU	LLION 4 X	2 TEE W	ITH 4 X 4	X 1/4 ANGL	E DETAIL:	S Q/5 - R/	5 AND 8	INCH CH	ANNEL DE	ETAILS S/	5 - T/5					
	ile 3		····						Wind L	oad PSF												
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170					
	24	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0					
⊑	30	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0					
mullion	36	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.3	10.6	10.0					
to m	42	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.2	10.4	9.7	9.1	8.6					
mullion	48	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.6	10.6	9.8	9.1	8.5	8.0	7.5					
	54	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.3	10.3	9.4	8.7	8.1	7.6	7.1	6.7					
า ดา	60	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.3	10.2	9.3	8.5	7.8	7.3	6.8	6.4	6.0					
mullion	66	12.0	12.0	12.0	12.0	12.0	12.0	11.6	10.3	9.3	8.4	7.7	7.1	6.6	6.2	5.8						
to m	72	12.0	12.0	12.0	12.0	12.0	12.0	10.6	9.4	8.5	7.7	7.1	6.5	6.1	5.7							
gmp	78	12.0	12.0	12.0	12.0	12.0	11.2	9,8	8.7	7.8	7.1	6.5	6.0	5.6		•						
from jamb	84	12.0	12.0	12.0	12.0	12.0	10.4	9.1	8,1	7.3	6.6	6.1	5.6									
	90	12.0	12.0	12.0	12.0	11.3	9.7	8.5	7.6	6.8	6.2	5.7	T RICE									
(in.)	96	12.0	12.0	12.0	12.0	10.6	9.1	8.0	7.1	6.4	5.8				ENGINEER							
pan	102	12.0	12.0	12.0	12.0	10.0	8.6	7.5	6.7	6.0		•			105 School Creek Trai							

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Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

Stiff	eners		NUMBER OF STIFFENERS REQUIRED FOR EACH PANEL Wind Load Pounds Per Square Foot														
Table 4								Wind Lo	ad Pound	ls Per Squ	are Foot						
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
วก ดะ	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to mullion	36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	42	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
to Jamb, Jamb Ilion	48	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
ıt, dr	54	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
Jan on	60	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	66	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	
n Jan	72	0	0	1	1	1	1	1	1	1	1	1	1	1	1		
Fron	78	0	0	1	1	1	1	1	1	1	1	1	1	1			
(ii.)	84	0	1	1	1	1	1	1	1	1	1	1	1				
pan	90	0	1	1	1	1	1	1	1	1	1	1					
Horizontal Span (in.) From Jamb mullion to mu	96	0	1	1	1	1	1	1	1	1	1						
izon	102	1	1	1	1	1	1	1	1	1							
Hor	108	1	1	1	1	1	1	1	1	2							

NOTE: Comparative analysis may be used to find values that fall between the values shown in tables 1, 2 or 3.

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