



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/building](http://www.miamidade.gov/building)

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road  
Houston, TX 77039

**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 1606DHPM Aluminum Louver w/ and w/o Damper**

**APPROVAL DOCUMENT:** Drawing No. **1606DHPM**, titled "1606DHPM Louver w/ and w/o Damper", sheets 1 through 27 of 27, prepared by manufacturer, dated 04/30/2026, 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, Houston, TX, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**LIMITATION:** This system is to be installed in a location where the room behind the louver is designed to drain water penetrating into 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 No. 24-0516.04** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



06/12/26

NOA No. 26-0518.07  
Expiration Date: August 30, 2028  
Approval Date: June 25, 2026

**Nailor Industries of Texas, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS “Submitted under NOA No. 18-0117.12”**

1. Drawing No. **1606DHPM**, titled “1606DHPM Louver w/ and w/o Damper”, sheets 1 through 21 of 21, dated 06/14/17, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

**B. TESTS “Submitted under NOA No. 18-0117.12”**

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 1606 DHPM Louver System, prepared by Intertek, Test Report No. **H1900.01-801-18-R2**, dated 09/21/17 and revised on 05/23/18, signed and sealed by Tyler Westerling, P.E.
2. Test Report on Wind Driven Rain Resistance per TAS 100(A)-95 on a Model 1606 DHPM Aluminum Louver with damper, prepared by Intertek, Test Report No. **H0222.04-801-18**, dated 09/27/17, signed and sealed by Tyler Westerling, P.E.
3. Test Report on High Velocity Wind Driven Rain Resistance per ANSI/AMCA 550-09 on a Model 1606 DHPM Aluminum Louver, prepared by Intertek, Test Report No. **H0222.03-801-18**, dated 09/28/17, signed and sealed by Tyler Westerling, P.E.

**C. CALCULATIONS “Submitted under NOA No. 18-0117.12”**

1. Louver structural calculations dated 11/03/17, prepared by Rice Engineering, 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 the **FBC 6<sup>th</sup> Edition (2017)** issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.



---

**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 26-0518.07**  
**Expiration Date: August 30, 2028**  
**Approval Date: June 25, 2026**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED UNDER NOA # 21-0630.10, 24-0516.04 AND NEW**

**A. DRAWINGS**

1. Drawing No. **1606DHPM**, titled “1606DHPM Louver w/ and w/o Damper”, sheets 1 through 27 of 27, prepared by manufacturer, dated 04/30/2026, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Louver calculations, prepared by Rice Engineering, dated 07/22/2024, 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**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to the 8<sup>th</sup> edition (2023) of the FBC, issued by Rice Engineering, dated 07/22/2024, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 07/22/2024, signed and sealed by Wayne K. Helmila, P.E.

*“Submitted under NOA # 21-0630.10”*

3. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) FBC, issued by Rice Engineering, dated 08/16/2021, signed and sealed by Wayne K. Helmila, P.E.



---

**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 26-0518.07**  
**Expiration Date: August 30, 2028**  
**Approval Date: June 25, 2026**

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

DRAWING INDEX:

1. INDEX TO DRAWINGS AND NOTES.
2. 1606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT
3. 1606DHPM LOUVER- CONTINUOUS ANGLE MOUNT
4. 1606DHPM / DAMPER- FLANGE FRAME SLEEVE MOUNT
5. 1606DHPM / DAMPER- CONTINUOUS ANGLE MOUNT
6. 1606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT HEAD & SILL DETAIL
7. 1606DHPM LOUVER- MULLION ANGLE MOUNT HEAD & SILL DETAIL.
8. 1606DHPM LOUVER- BLADE SUPPORT DETAIL.
9. 1606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT JAMB AND SUPPORT DETAIL
10. 1606DHPM LOUVER- CONTINUOUS ANGLE MOUNT JAMB AND SUPPORT DETAIL.
11. 1606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT MULLION DETAIL.
12. 1606DHPM LOUVER- CONTINUOUS ANGLE MOUNT MULLION DETAIL.
13. 1606DHPM LOUVER / DAMPER FLANGE FRAME W/ SLEEVE & MULLION ANGLE MOUNT HEAD & SILL DETAIL.
14. 1606DHPM / DAMPER- FLANGE FRAME SLEEVE MOUNT CMU SUBSTRATE HEAD & SILL DETAIL
15. 1606DHPM / DAMPER- FLANGE FRAME SLEEVE MOUNT JAMB AND MULLION DETAIL
16. 1606DHPM LOUVER / DAMPER FLANGE FRAME SLEEVE MOUNT 9 X 3 X 1/4 & 11 X 3 X 1/4 ANGLE MULLION DETAIL
17. 1606DHPM LOUVER / DAMPER CONTINUOUS ANGLE MOUNT JAMB AND MULLION DETAIL.
18. 1606DHPM LOUVER / DAMPER COUNTINUOUS ANGLE MOUNT 9 X 3 X 1/4 & 11 X 3 X 1/4 ANGLE MULLION DETAIL
19. 1606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT PART PROFILES.
20. 1606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT PART PROFILES CONT.
21. 16" MULLION ANGLES BACK OF THE WALL MOUNT
22. 20" MULLION ANGLES BACK OF THE WALL MOUNT.
23. 30" CMU MULLION ANGLES BACK OF THE WALL MOUNT.
24. 1606DHPM LOUVER W/ AND W/O DAMPER AVAILBLE SHAPES
25. 1606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT BILL OF MATERIAL.
26. 1606DHPM LOUVER W/ AND W/O DAMPER FASTENER TABLES
27. 1606DHPM LOUVERW/ AND W/O DAMPER GENERAL NOTES.

NOTES:

- 1) THE 1606DHPM HAS BEEN TESTED IN ACCORDANCE WITH THE MIAMI-DADE COUNTY PROTOCOLS TAS - 100 (A),TAS-201, 202, & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
- 2) THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 150 PSF OR LESS
- 3) THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- 4) LOUVER ANCHORS ARE REVIEWED FOR ATTACHMENT INTO STEEL, CONCRETE, MASONRY, OR TIMBER SUBSTRUCTURE. MINIMUM EDGE DISTANCE AND EMBEDMENT REQUIREMENTS ARE SHOWN. NAILOR INDUSTRIES OF TEXAS DOES NOT DETERMINE THE STURCTURE INTEGRITY OF THE SUBSTRUCTURE.
- 5) MAXIMUM SINGLE SECTION SIZE : 72" WIDE X 120" HIGH.
- 6) MAXIMUM ASSEMBLED LOUVER SIZE UNLIMITED WIDE X 120" HIGH. MAX. MULLION SPACING IS 72".
- 7) SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.

TESTS PREFORMED:

TAS-100 (A) WIND DRIVEN RAIN RESISTANCE  
 TAS-201 LARGE MISSILE IMPACT  
 TAS-202 UNIFORM STATIC AIR PRESSURE TEST  
 TAS-203 CYCLIC WIND PRESUSRE TEST  
 DESIGN PRESSURE RATING 150 PSF

CHK BY: BDennis

DWN BY: fcortinas

SCALE: NTS

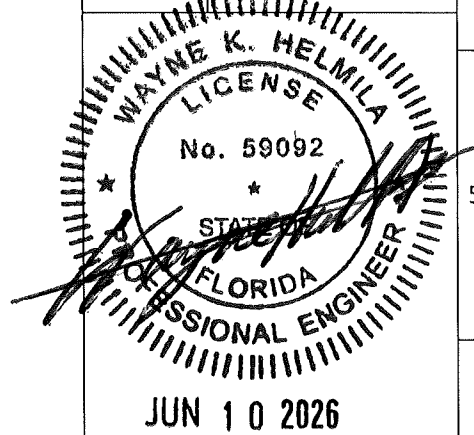
DATE: 4/30/2026

SHEET: 1 OF 27

DWG. NO. 1606DHPM  
 REV B

**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

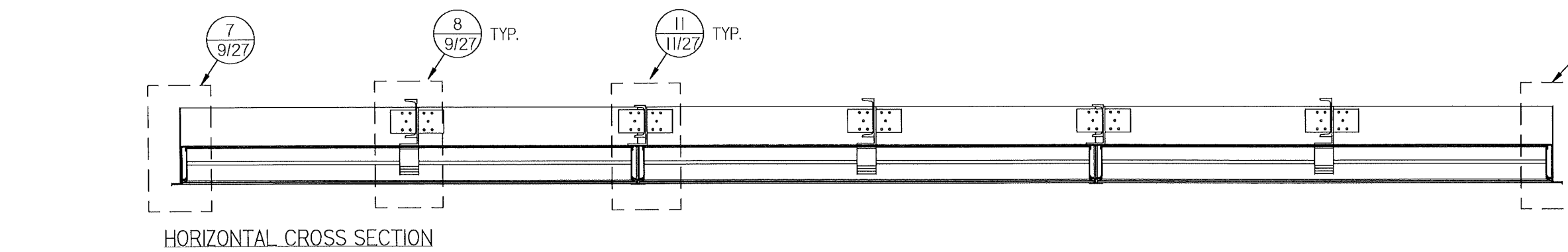
TITLE:  
 1606DHPM LOUVER  
 W/ AND W/O DAMPER  
 INDEX



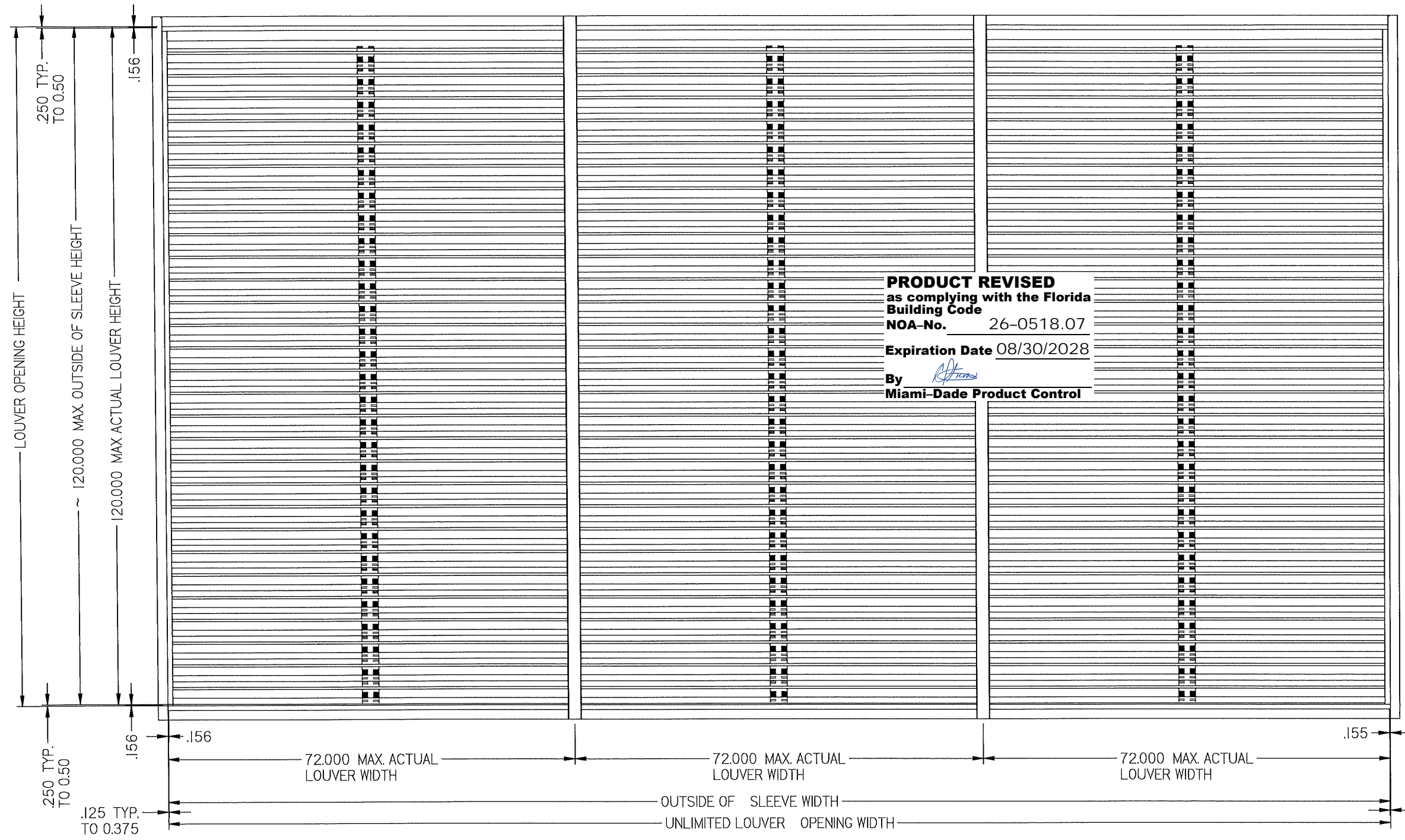
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control

**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-0100005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092

REVISIONS:  
 REV B: UPDATED DRAWING INDEX  
 REV B : PG 20,21,22,23,24,25,26,27

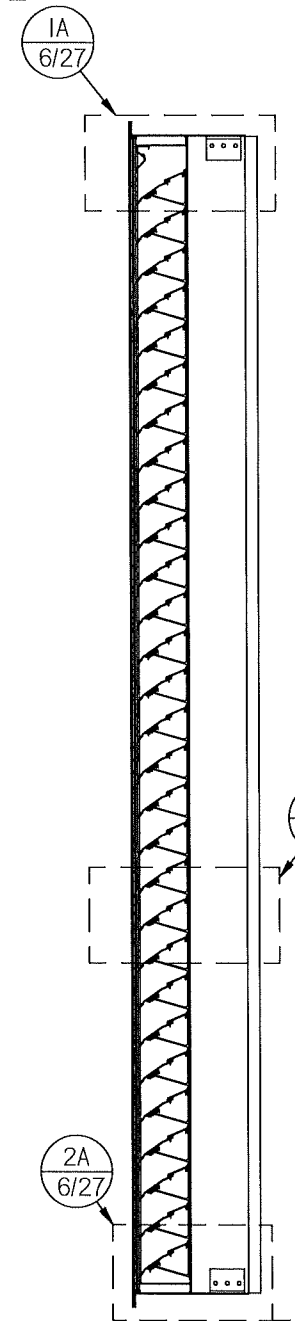


HORIZONTAL CROSS SECTION



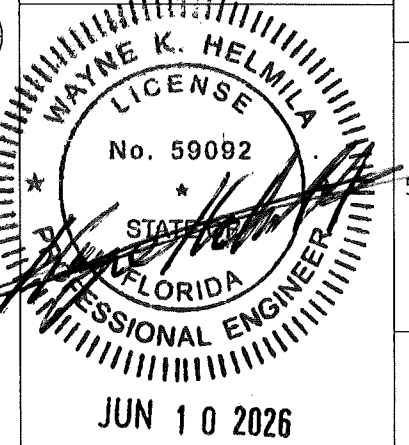
ELEVATION

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *R.H. Jones*  
 Miami-Dade Product Control



VERTICAL CROSS SECTION

**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

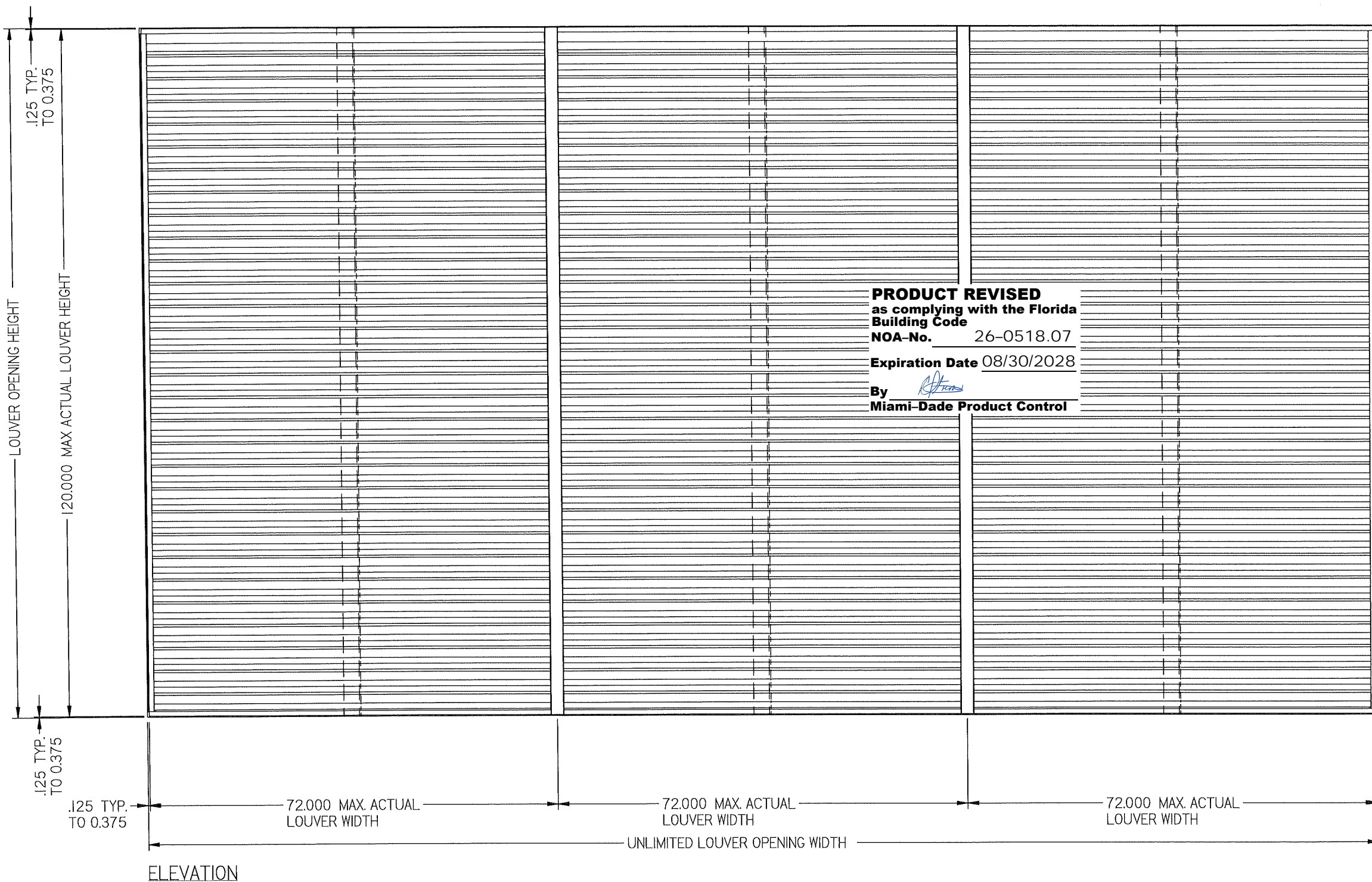
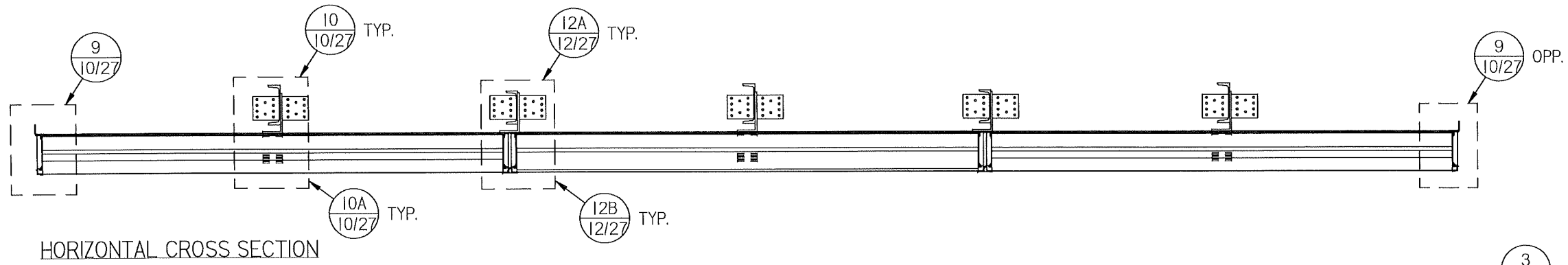


**RICE ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: (920) 617-1042  
 Fax: (920) 617-1100  
 www.rice-inc.com  
 Florida Firm No: F-0100005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092

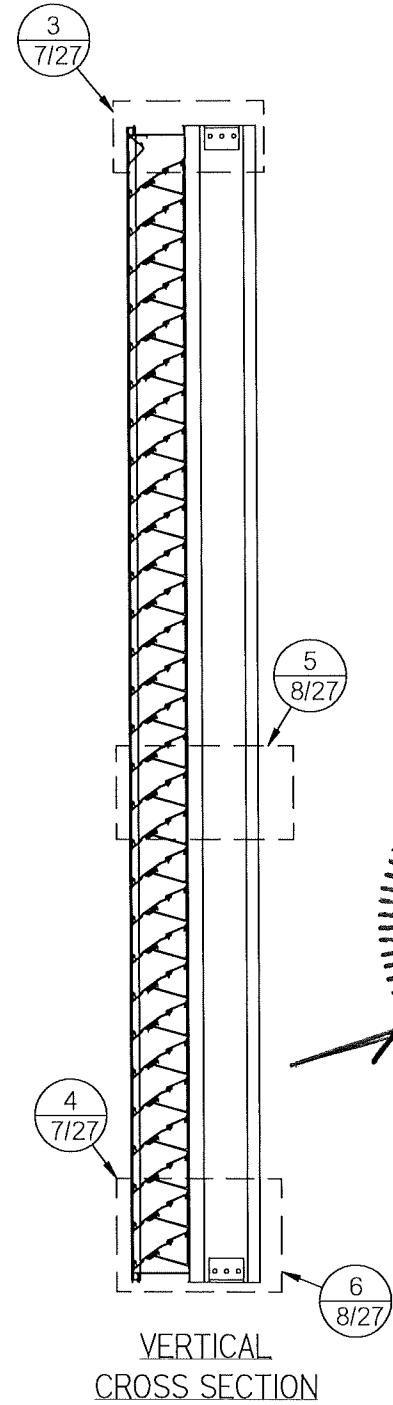
DWN BY: fcoirtinas  
 DATE: 4/30/2026  
 CHK BY: BDennis  
 SCALE: NTS

TITLE:  
**1606DHPM LOUVER  
 FLANGE FRAME  
 SLEEVE MOUNT**

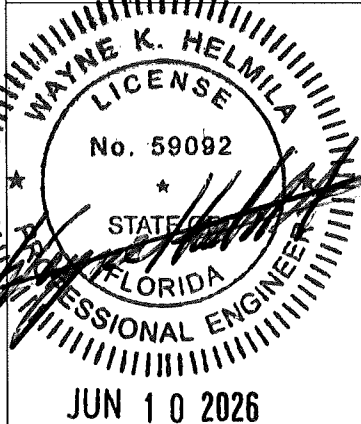
SHEET: 2 OF 27  
 DWG. NO. **1606DHPM**  
 REV B



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control



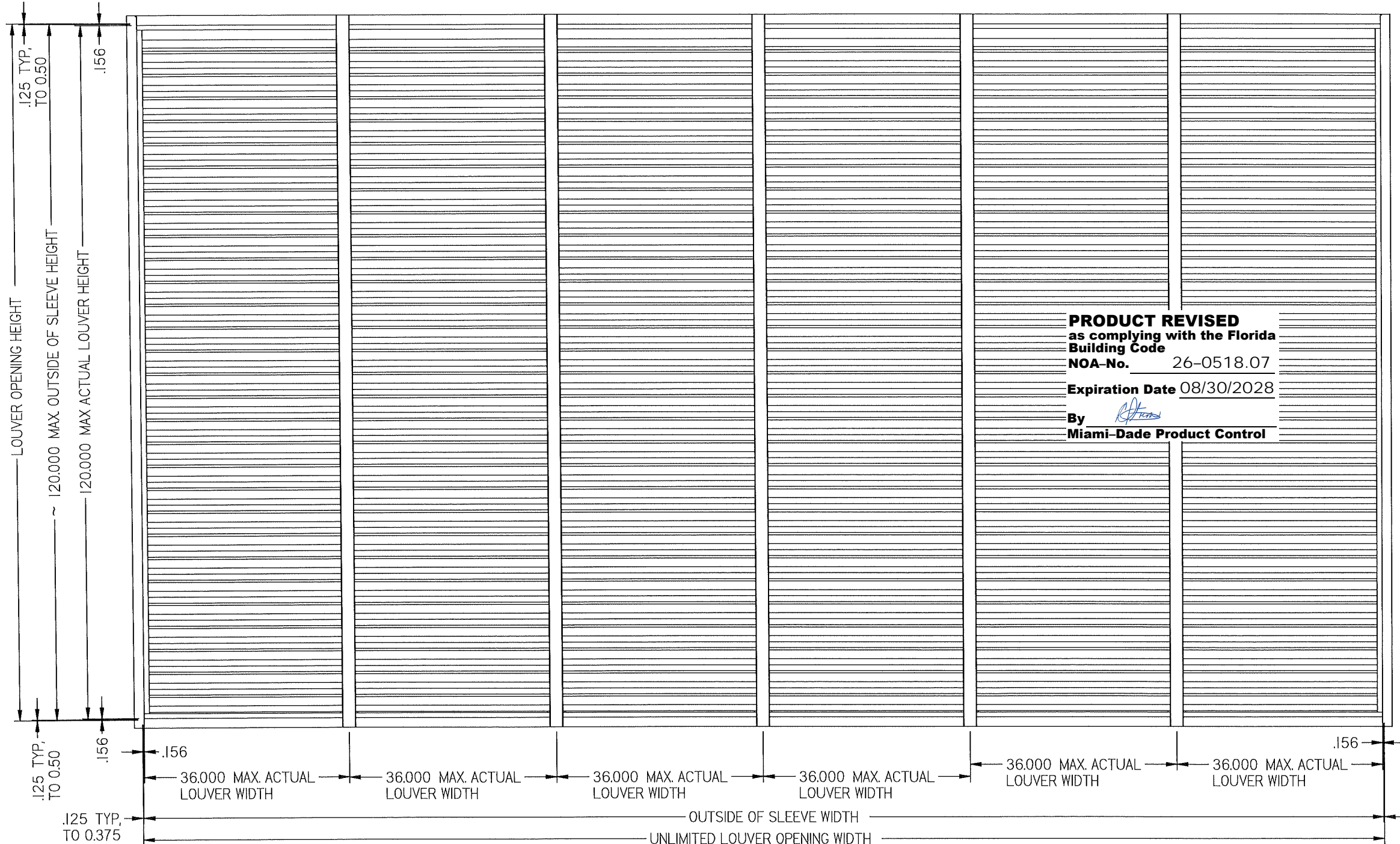
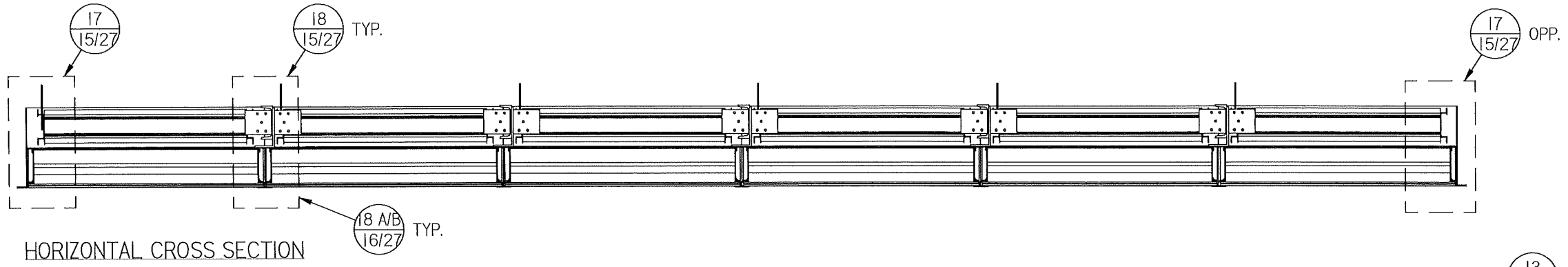
**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



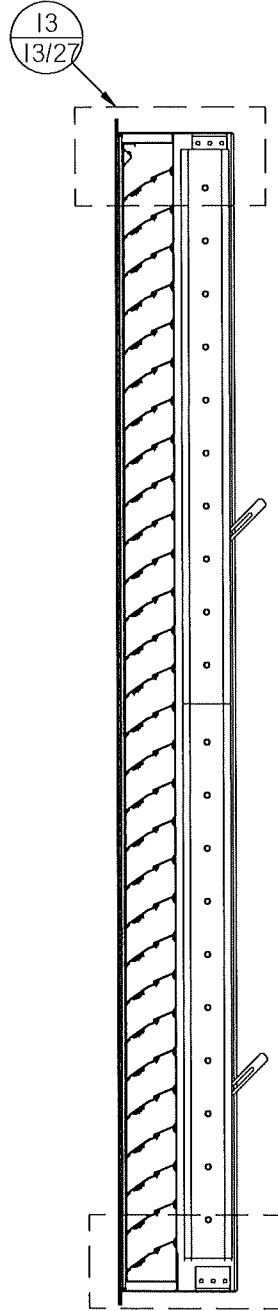
**RICE**  
 ENGINEERING  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: (920) 617-1042  
 Fax: (920) 617-1100  
 www.rice-inc.com  
 Florida Firm No: F-01000005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092

DWN BY: fcortinas CHK BY: BDennis  
 DATE: 4/30/2026 SCALE: NTS  
 SHEET: 3 OF 27  
 DWG. NO. 1606DHPM  
 REV B

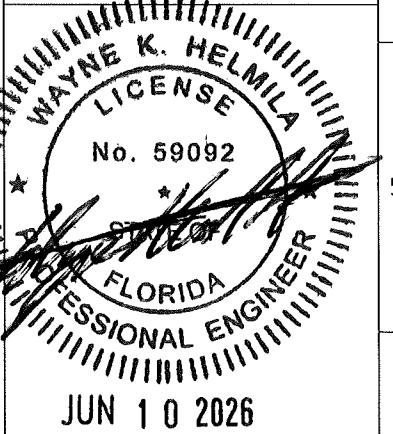
TITLE:  
 1606DHPM LOUVER  
 COUNTINOUS ANGLE MOUNT



**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *R. Helms*  
 Miami-Dade Product Control



**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



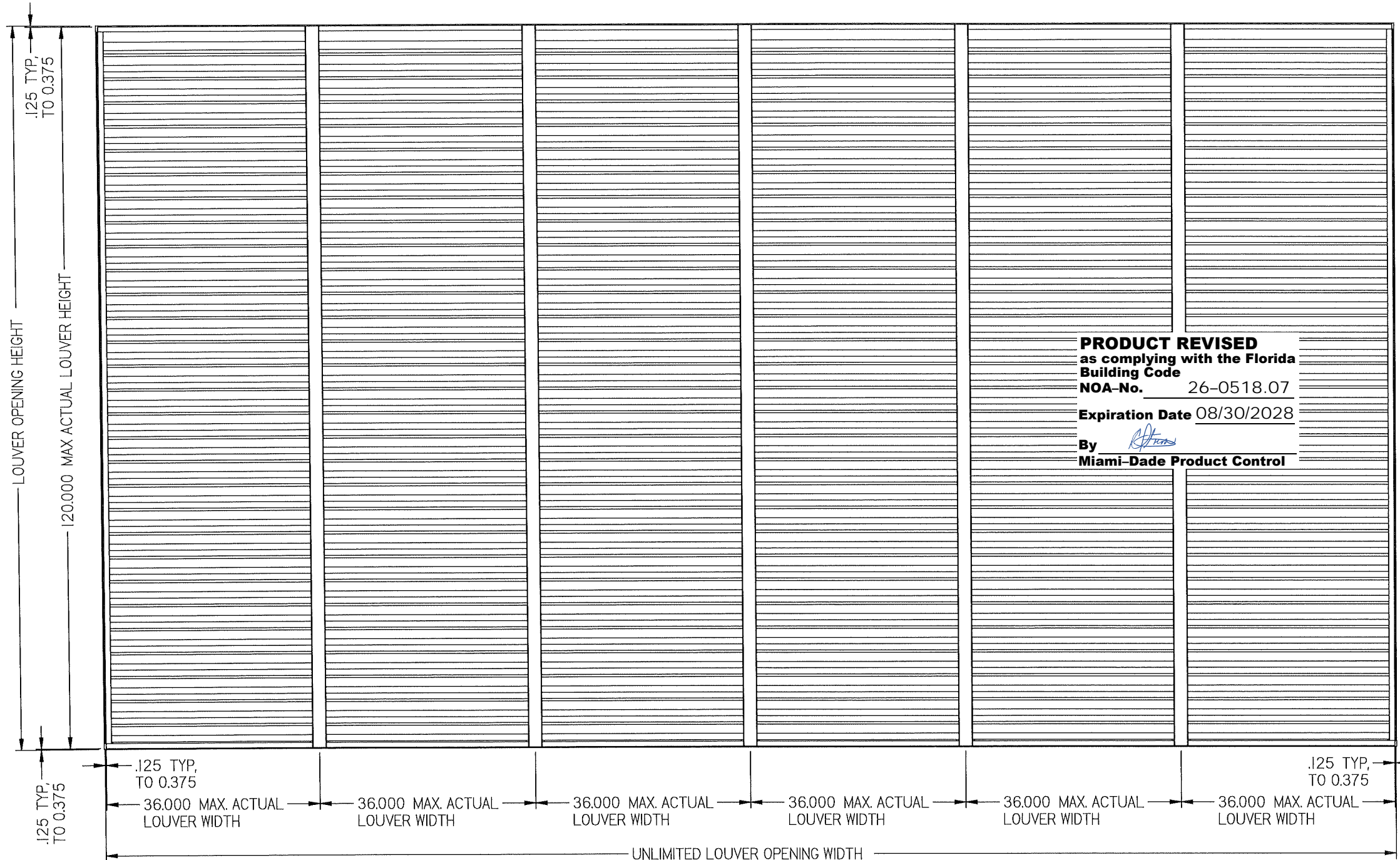
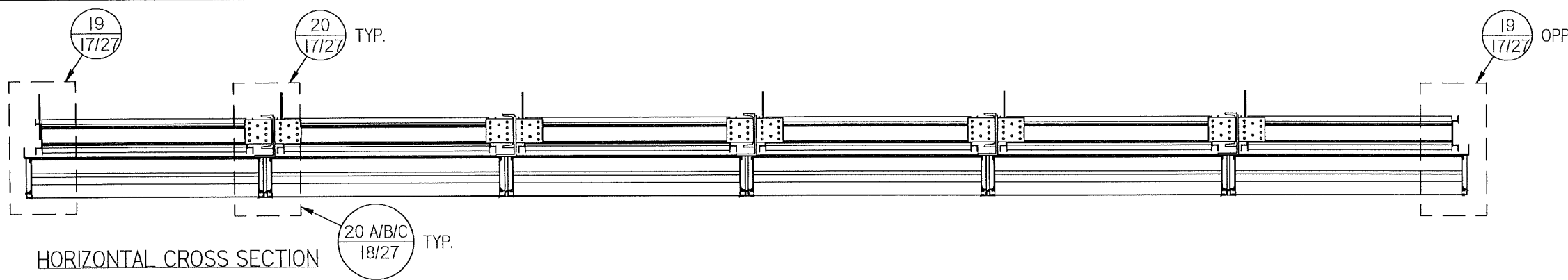
**RICE ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: (920) 617-1042  
 Fax: (920) 617-1100  
 www.rice-inc.com  
 Florida Firm No: F-0100005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092

DWN BY: fcortinas  
 DATE: 4/30/2026  
 SCALE: NTS

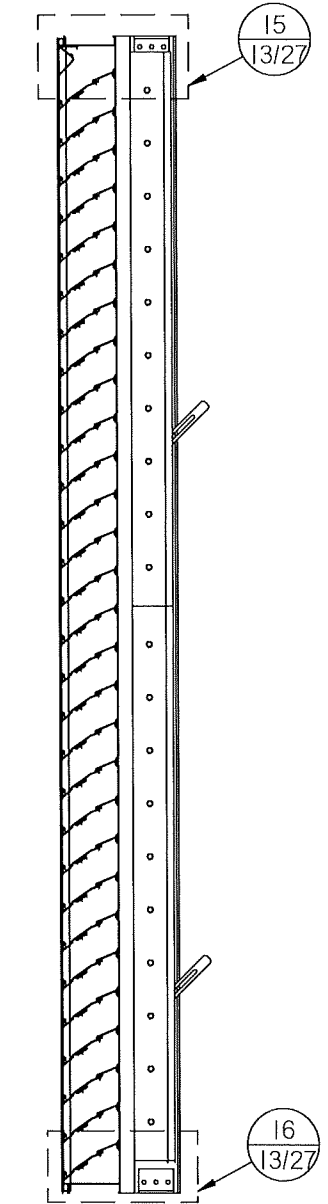
CHK BY: BDennis

SHEET: 4 OF 27

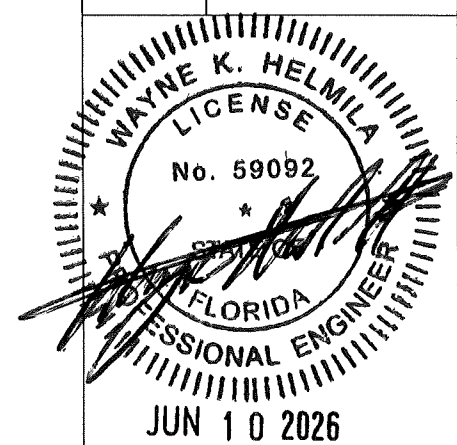
DWG. NO. 1606DHPM  
 REV B



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control



**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



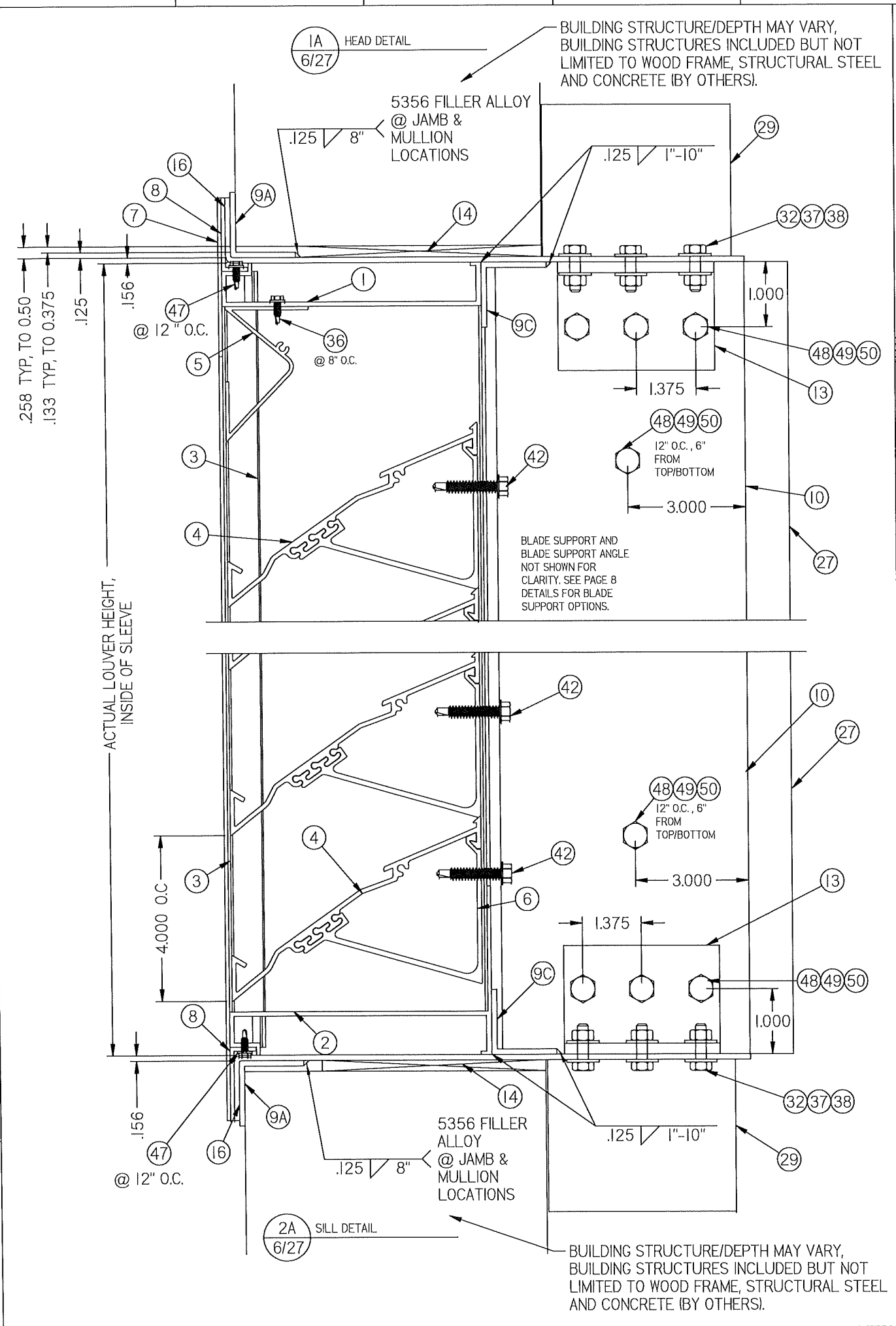
**RICE ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: (920) 617-1042  
 Fax: (920) 617-1100  
 www.rice-inc.com  
 Florida Firm No: F-01000005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092

DWN BY: fcortinas  
 DATE: 4/30/2026  
 SCALE: NTS

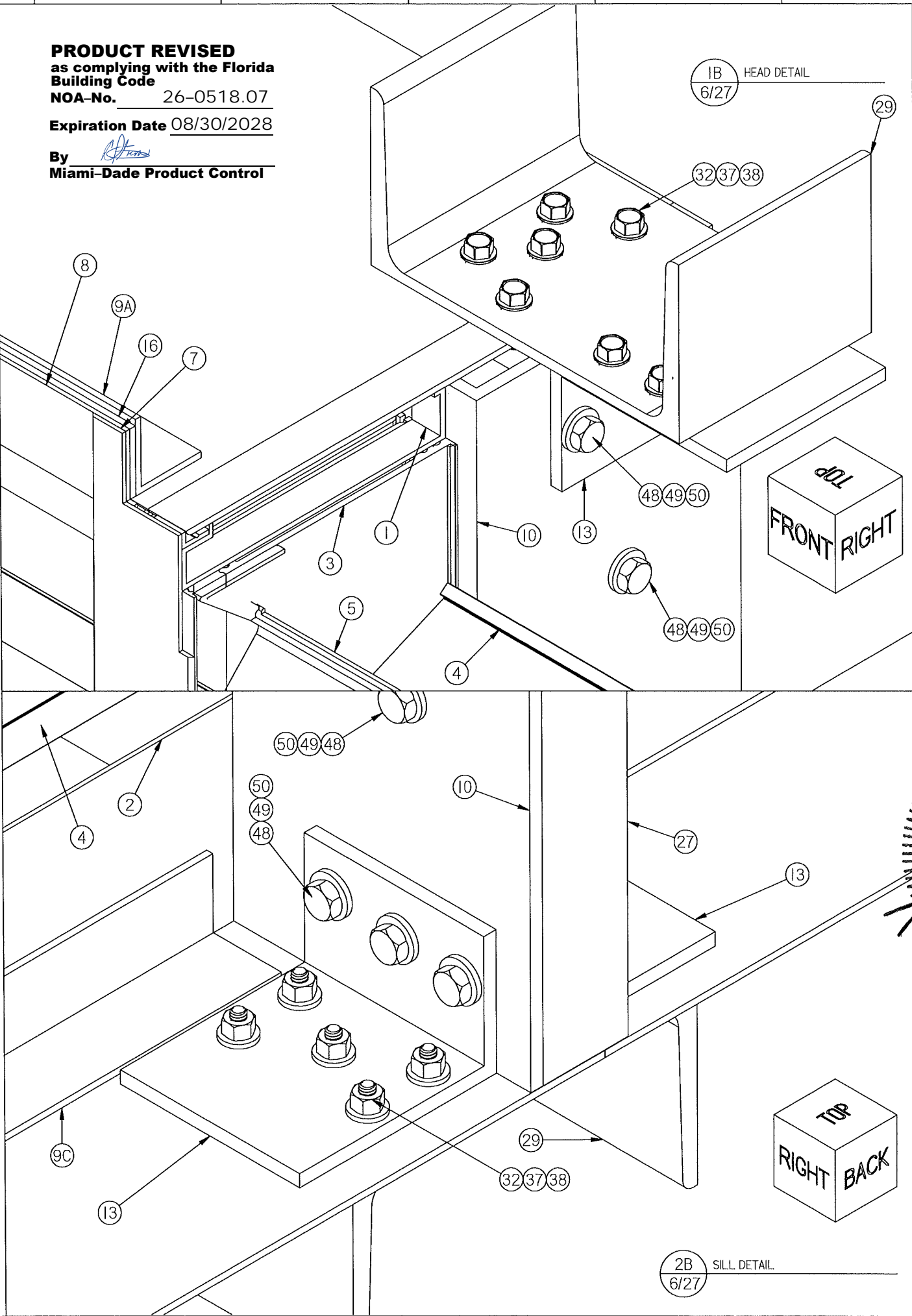
CHK BY: BDennis

SHEET: 5 OF 27

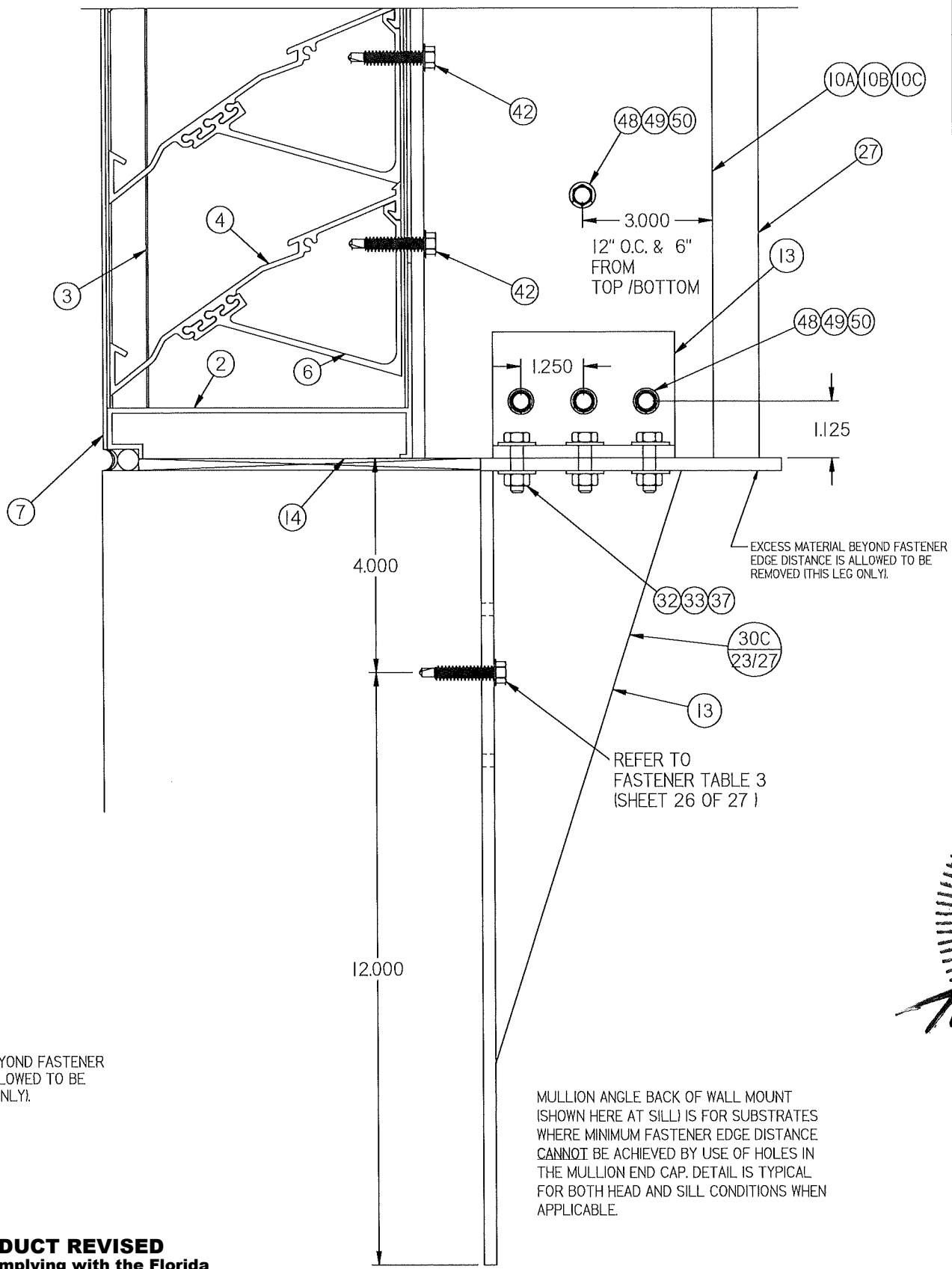
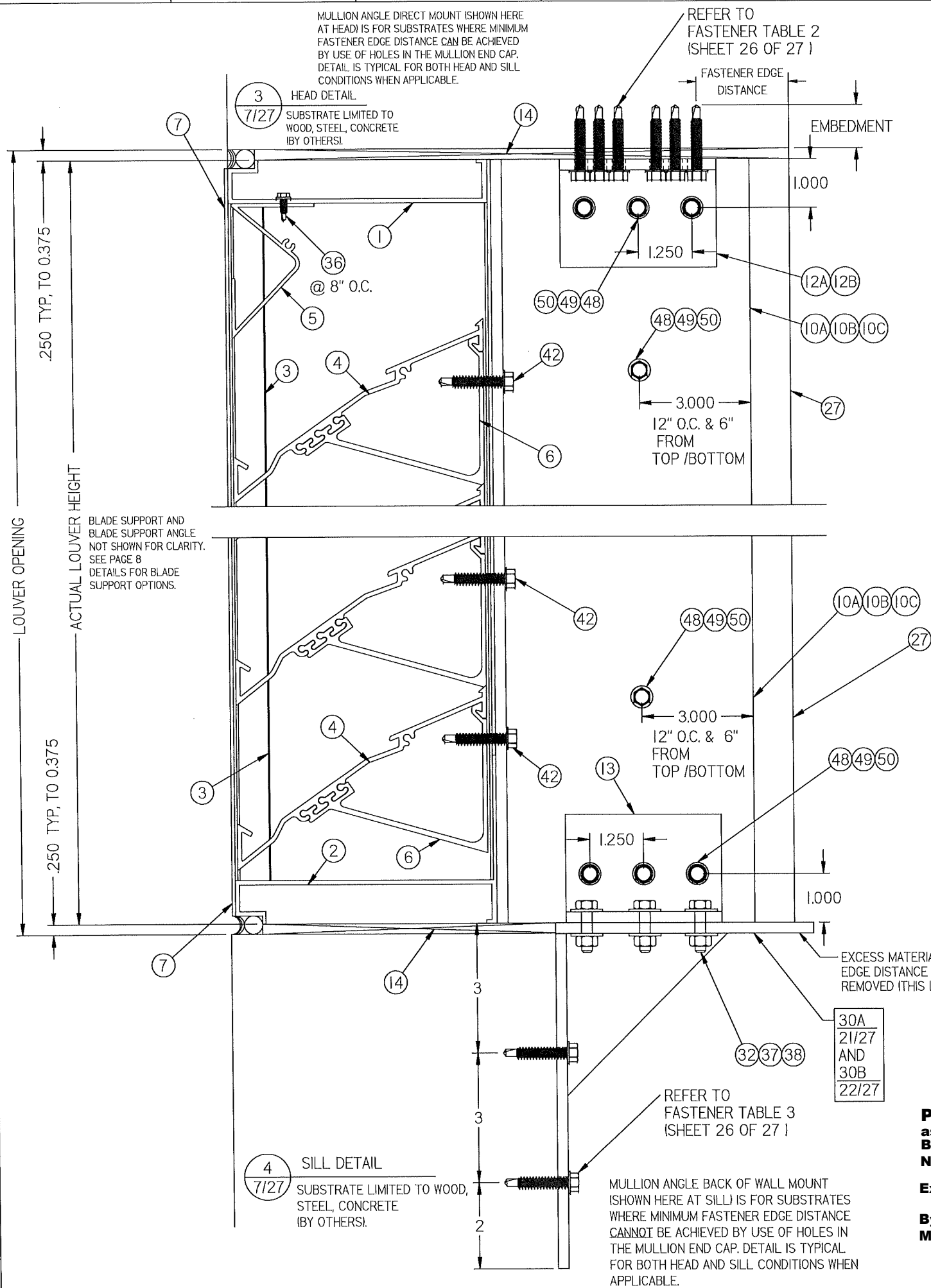
DWG. NO. 1606DHPM  
 REV B



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control



DWN BY: fcortinas	CHK BY: BDennis	SCALE: NTS	SHEET: 6 OF 27	REV B
DATE: 4/30/2026				
Nailor Industries of Texas, Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086		TITLE: 1606DHPM LOUVER FLANGE FRAME SLEEVE MOUNT HEAD & SILL DETAIL		
JUN 10 2026		<b>RICE</b> 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		



LOUVER OPENING  
 .250 TYP. TO 0.375

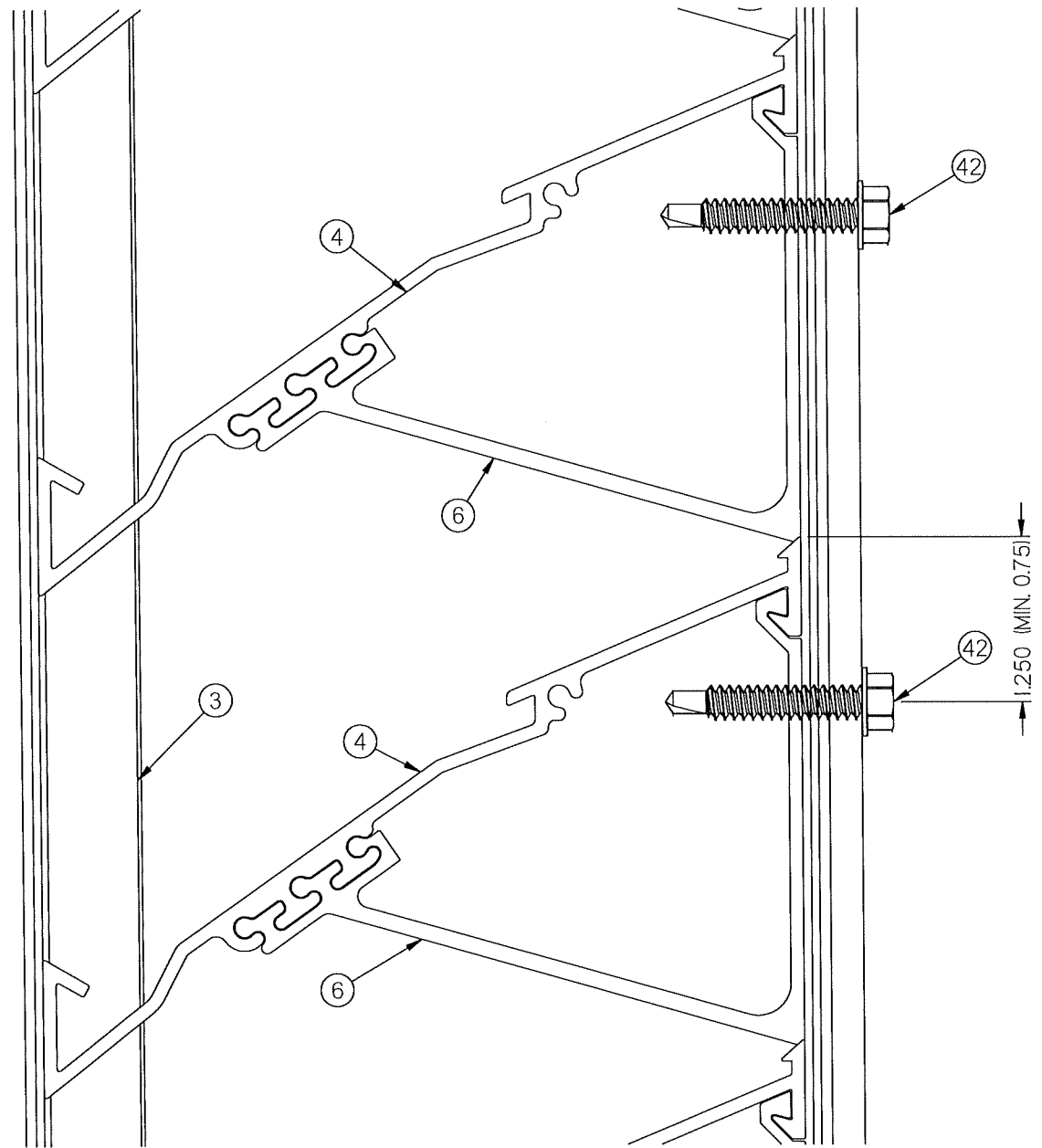
ACTUAL LOUVER HEIGHT  
 .250 TYP. TO 0.375

BLADE SUPPORT AND BLADE SUPPORT ANGLE NOT SHOWN FOR CLARITY. SEE PAGE 8 DETAILS FOR BLADE SUPPORT OPTIONS.

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control

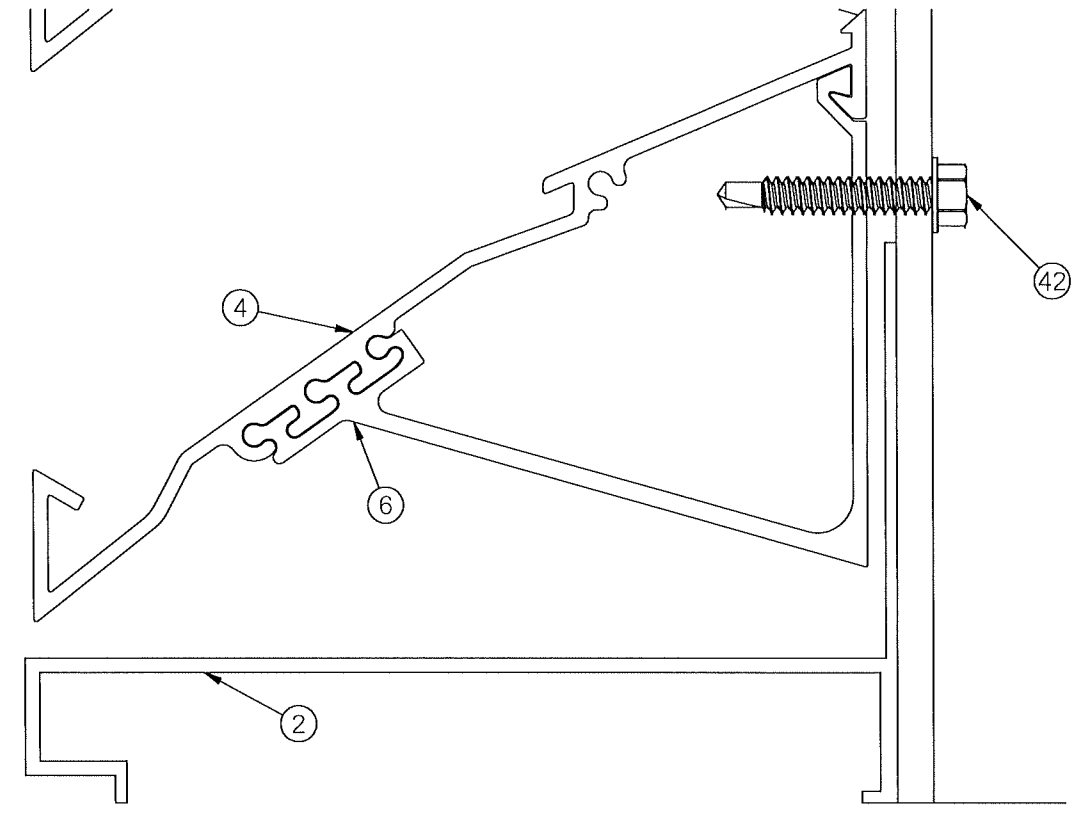
REVISIONS:  
 REV B: ADDED 16" TALL MASONRY WALL BRACKET  
 REV B: UPDATED FASTENER TABLES

DWN BY: fcortinas	CHK BY: BDennis	SCALE: NTS	SHEET: 7 OF 27	REV B
DATE: 4/30/2026				
 Nailor Industries of Texas, Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086		TITLE: <b>1606DHPM LOUVER</b> <b>MULLION ANGLE MOUNT</b> <b>HEAD &amp; SILL DETAILS</b>		
 WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER JUN 10 2026		<b>RICE</b> 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		



5 BLADE SUPPORT DETAIL  
8/27

NOTE: THE BLADE SUPPORT ANGLE (ITEM 10) IS NOT SHOWN IN THE DETAILS IN ORDER TO IMPROVE CLARITY. THE BLADE SUPPORT ANGLE IS ATTACHED TO THE BLADE SUPPORT BRACE (ITEM 6).  
BLADE SUPPORT BRACKET 6 (SHOWN) IS ANY OF THE DRAWINGS FOR DETAIL 6.



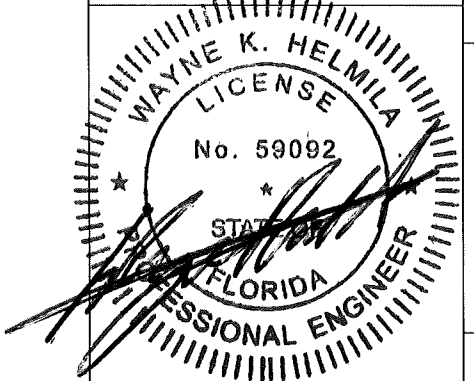
6 BOTTOM BLADE SUPPORT DETAIL  
8/27

**PRODUCT REVISED**  
as complying with the Florida  
**Building Code**  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control

DWN BY: fcortinas	CHK BY: BDennis
DATE: 4/30/2026	SCALE: NTS
SHEET: 8 OF 27	
DWG. NO.	REV
1606DHPM	B

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

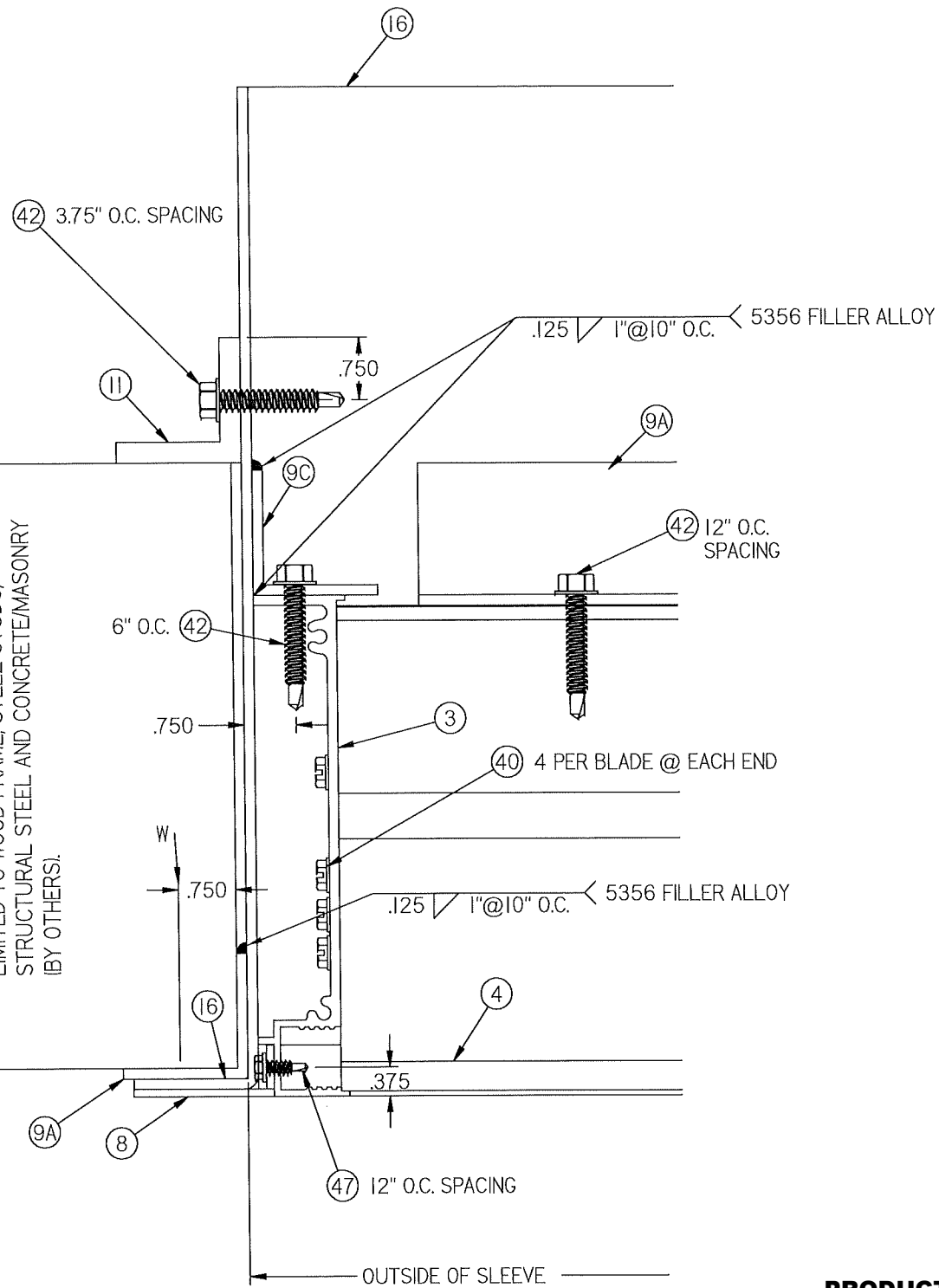
TITLE:  
1606DHPM LOUVER  
BLADE SUPPORT DETAIL



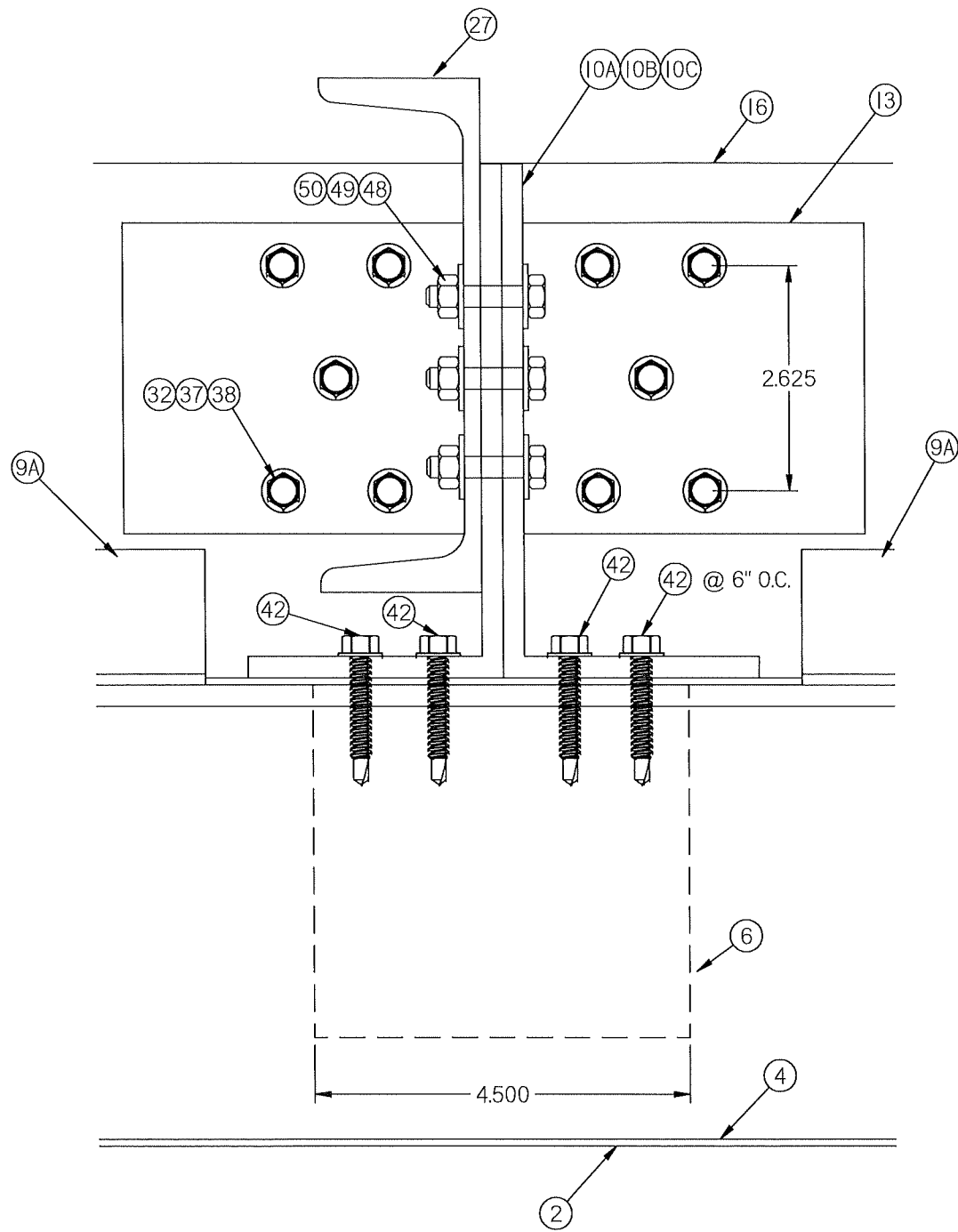
JUN 10 2026

**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

BUILDING STRUCTURE/DEPTH MAY VARY.  
 BUILDING STRUCTURES INCLUDE BUT NOT  
 LIMITED TO WOOD FRAME, STEEL STUDS,  
 STRUCTURAL STEEL AND CONCRETE/MASONRY  
 (BY OTHERS).



7 JAMB DETAIL  
9/27

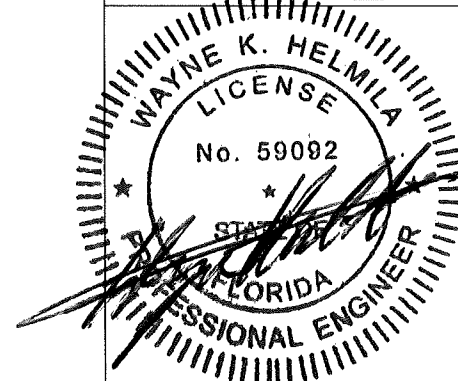


8 BLADE SUPPORT DETAIL  
SLEEVE MOUNT  
9/27

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control

DWN BY: fcortinas  
 DATE: 4/30/2026  
 SCALE: NTS

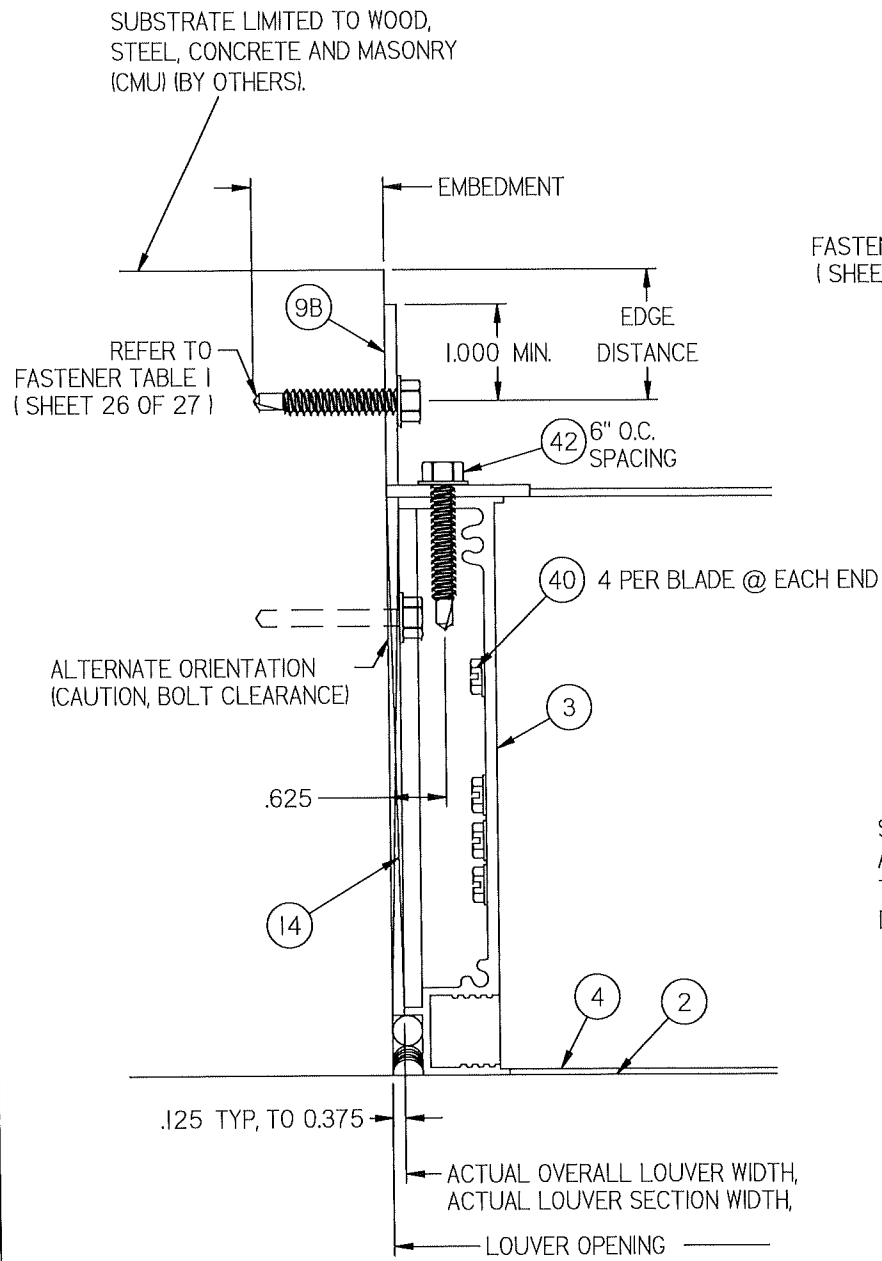
**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



**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

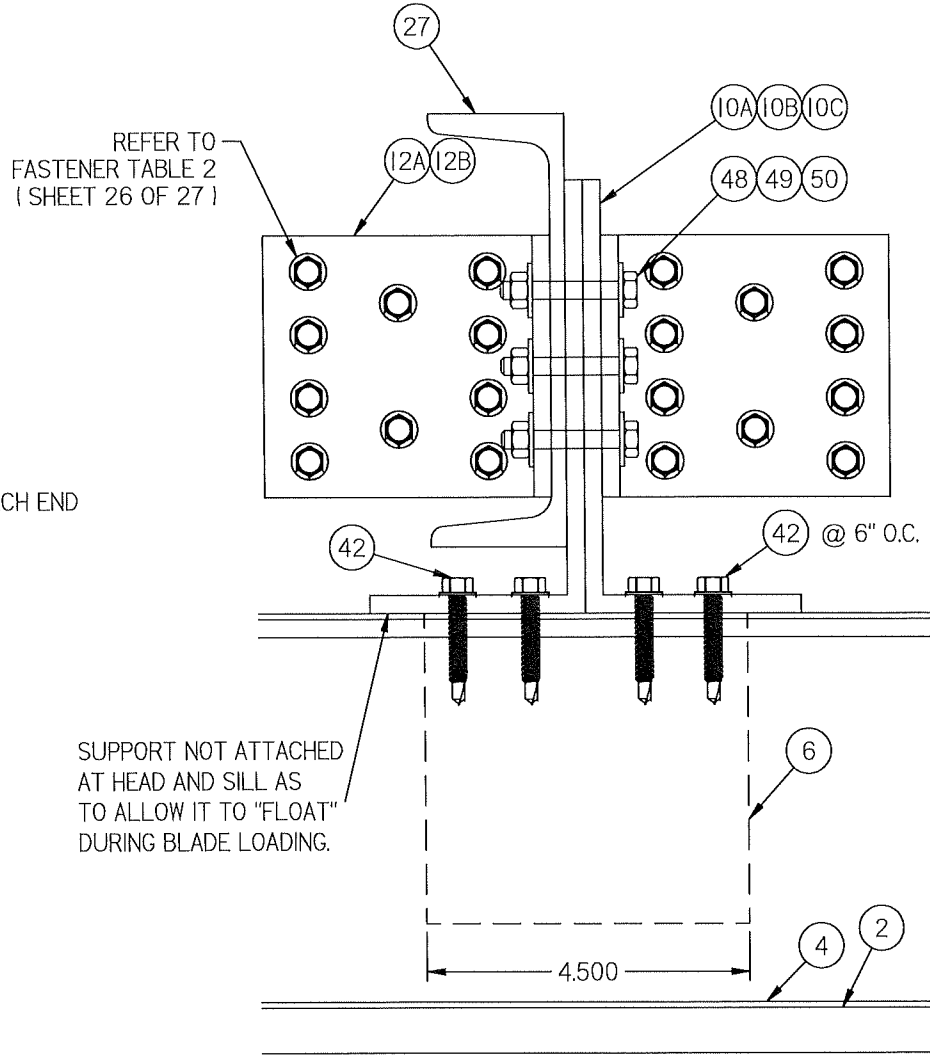
SHEET: 9 OF 27  
 DWG. NO. 1606DHPM  
 REV B

TITLE:  
 1606DHPM LOUVER  
 FLANGE FRAME SLEEVE MOUNT  
 JAMB DETAILS

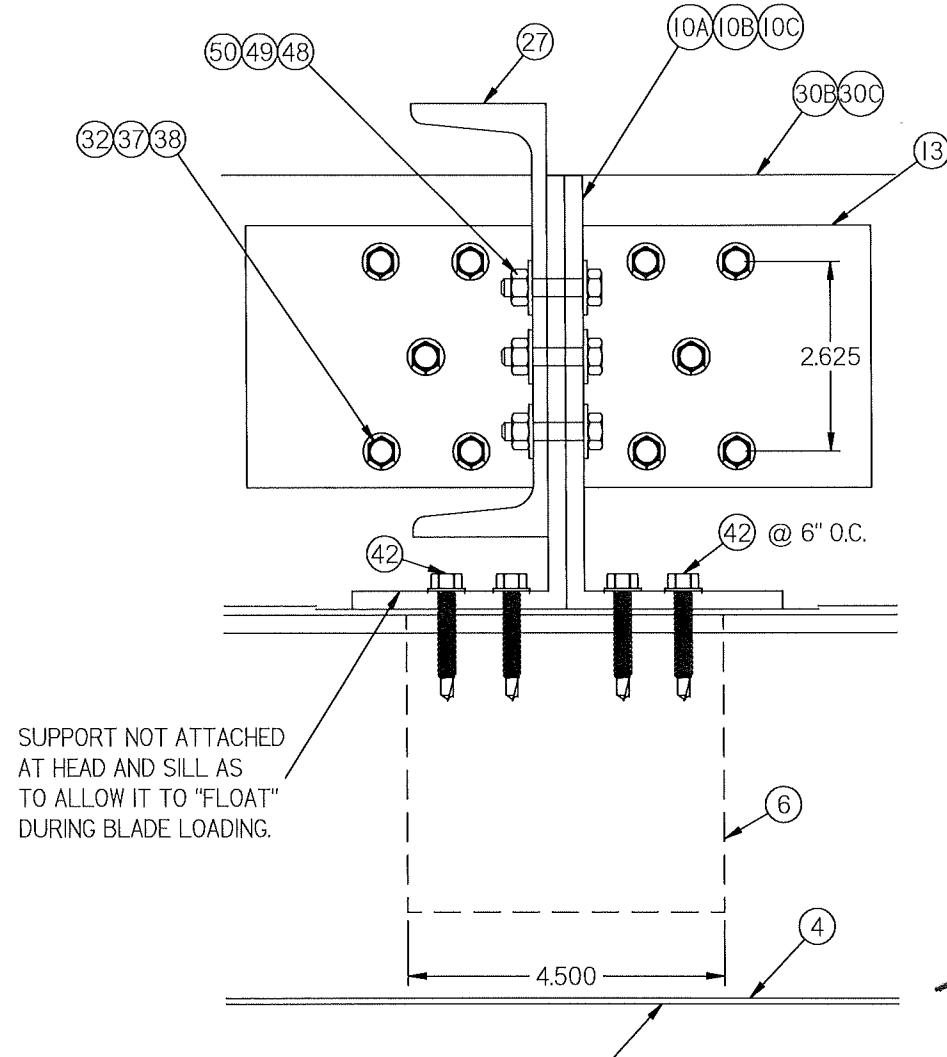


9 JAMB DETAIL  
10/27

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control



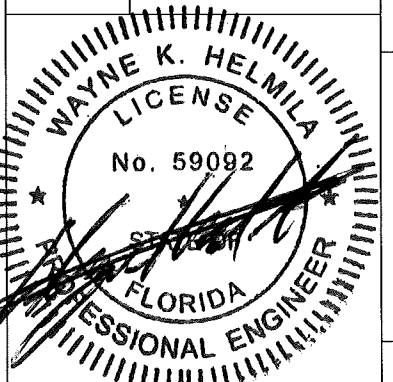
10 BLADE SUPPORT DETAIL DIRECT MOUNT  
10/27



10A BLADE SUPPORT DETAIL BACK OF OF WALL MOUNT FOR CONT. ANGLE  
10/27

REVISIONS:  
REV B: UPDATED FASTENER TABLES

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



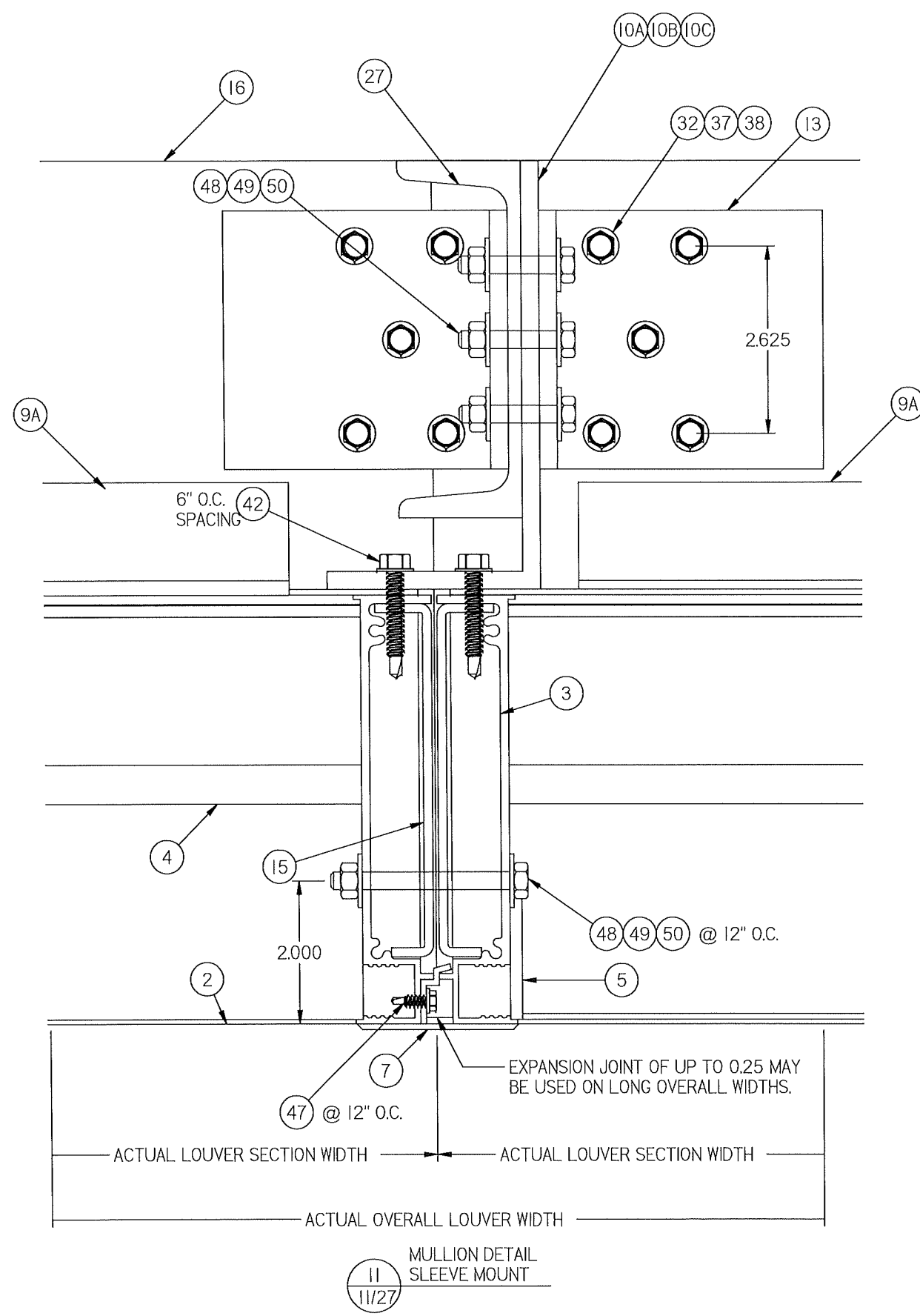
JUN 10 2026

**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

DWN BY: fcortinas  
DATE: 4/30/2026  
CHK BY: BDennis  
SCALE: NTS

SHEET: 10 OF 27  
DWG. NO. 1606DHPM  
REV B

TITLE:  
1606DHPM LOUVER  
COUNTINOUS ANGLE MOUNT  
JAMB DETAIL



EXPANSION JOINT OF UP TO 0.25 MAY BE USED ON LONG OVERALL WIDTHS.

ACTUAL LOUVER SECTION WIDTH      ACTUAL LOUVER SECTION WIDTH

ACTUAL OVERALL LOUVER WIDTH

MULLION DETAIL  
SLEEVE MOUNT  
11  
11/27

DWN BY: fcortinas      CHK BY: BDennis

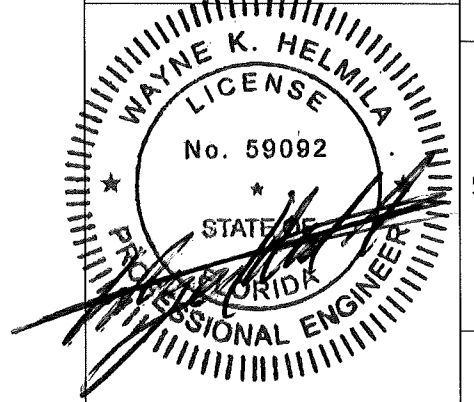
DATE: 4/30/2026      SCALE: NTS

SHEET: 11 OF 27

DWG. NO. 1606DHPM      REV B

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:  
1606DHPM LOUVER  
FLANGE FRAME SLEEVE MOUNT  
MULLION DETAIL



JUN 10 2026

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control

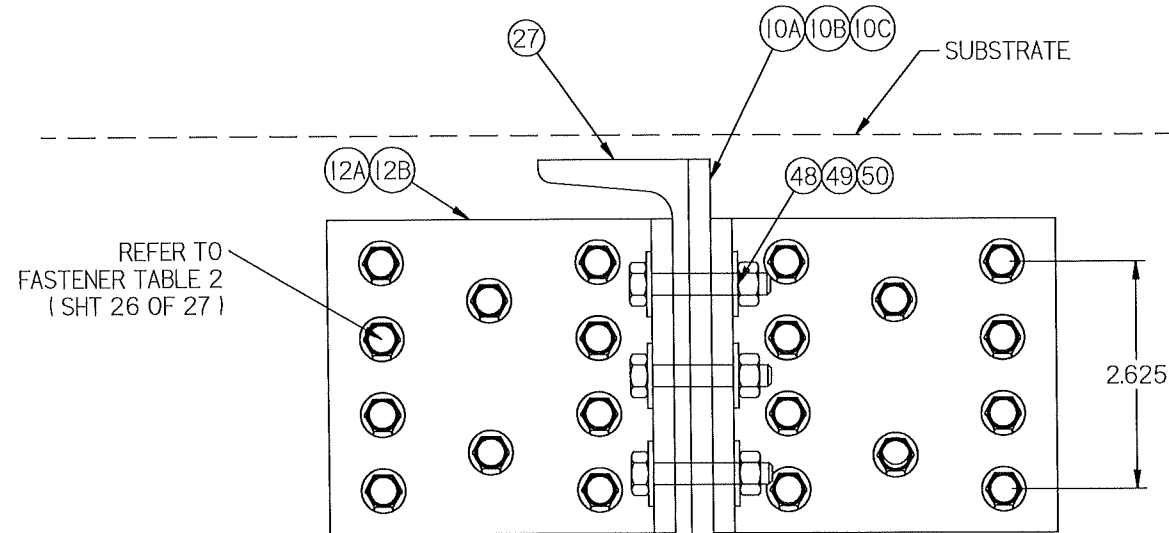
**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code

NOA-No. 26-0518.07

Expiration Date 08/30/2028

By   
 Miami-Dade Product Control



42 @ 6" O.C.

15

3

4

2.000

48, 49, 50 @ 12" O.C.

2

47 @ 12" O.C.

EXPANSION JOINT OF UP TO 0.25 MAY BE USED ON LONG OVERALL WIDTHS

ACTUAL LOUVER SECTION WIDTH

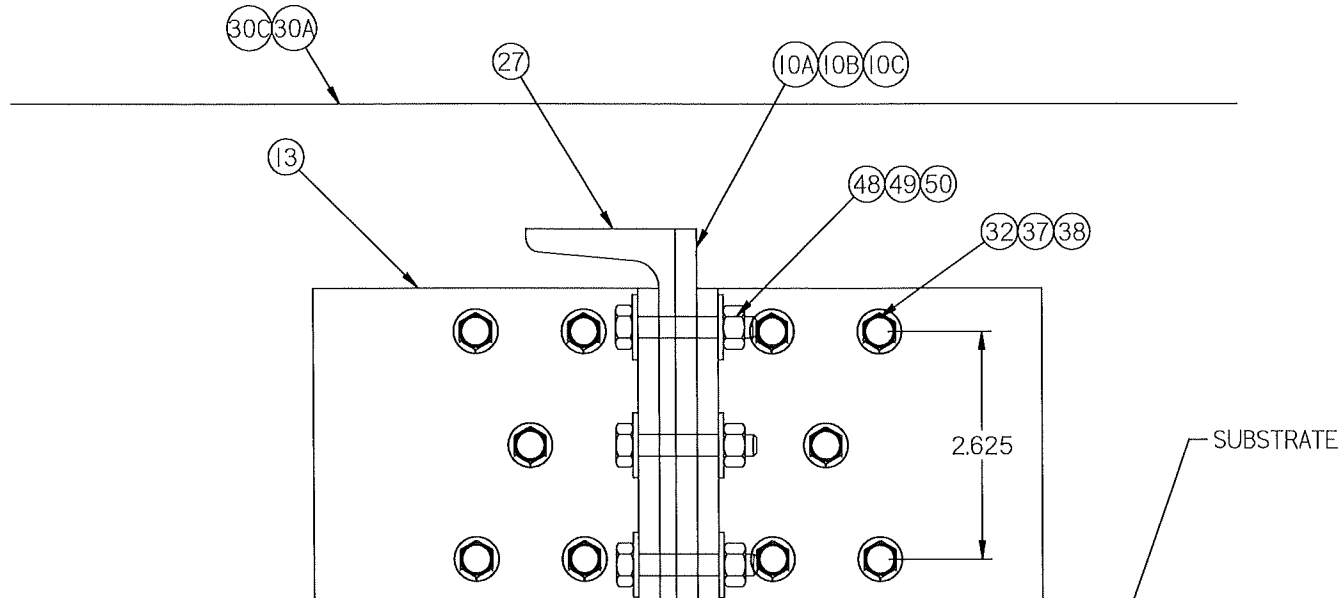
ACTUAL LOUVER SECTION WIDTH

ACTUAL OVERALL LOUVER WIDTH

MULLION ANGLE DIRECT MOUNT (SHOWN HERE AT HEAD) IS FOR SUBSTATES WHERE MINIMUM FASTENER EDGE DISTANCE CAN BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.

12A  
12/27

MULLION DETAIL  
DIRECT MOUNT



42 @ 6" O.C.

15

3

4

2.000

48, 49, 50 @ 12" O.C.

2

47 @ 12" O.C.

EXPANSION JOINT OF UP TO 0.25 MAY BE USED ON LONG OVERALL WIDTHS

ACTUAL LOUVER SECTION WIDTH

ACTUAL LOUVER SECTION WIDTH

ACTUAL OVERALL LOUVER WIDTH

MULLION ANGLE BACK OF WALL MOUNT (SHOWN HERE AT SILL) IS FOR SUBSTATES WHERE MINIMUM FASTENER EDGE DISTANCE CANNOT BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.

12B  
12/27

MULLION DETAIL BACK  
OF WALL MOUNT

REVISIONS:  
REV B: UPDATED FASTENER TABLES

DWN BY: fcortinas

CHK BY: BDennis

DATE: 4/30/2026

SCALE: NTS

SHEET: 12 OF 27

DWG. NO. 1606DHPM

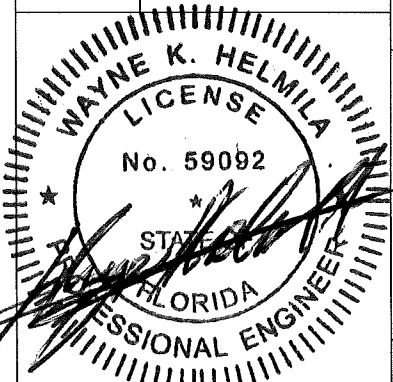
REV

B

**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



TITLE:  
1606DHPM LOUVER  
COUNTINOUS ANGLE MOUNT  
MULLION DETAIL

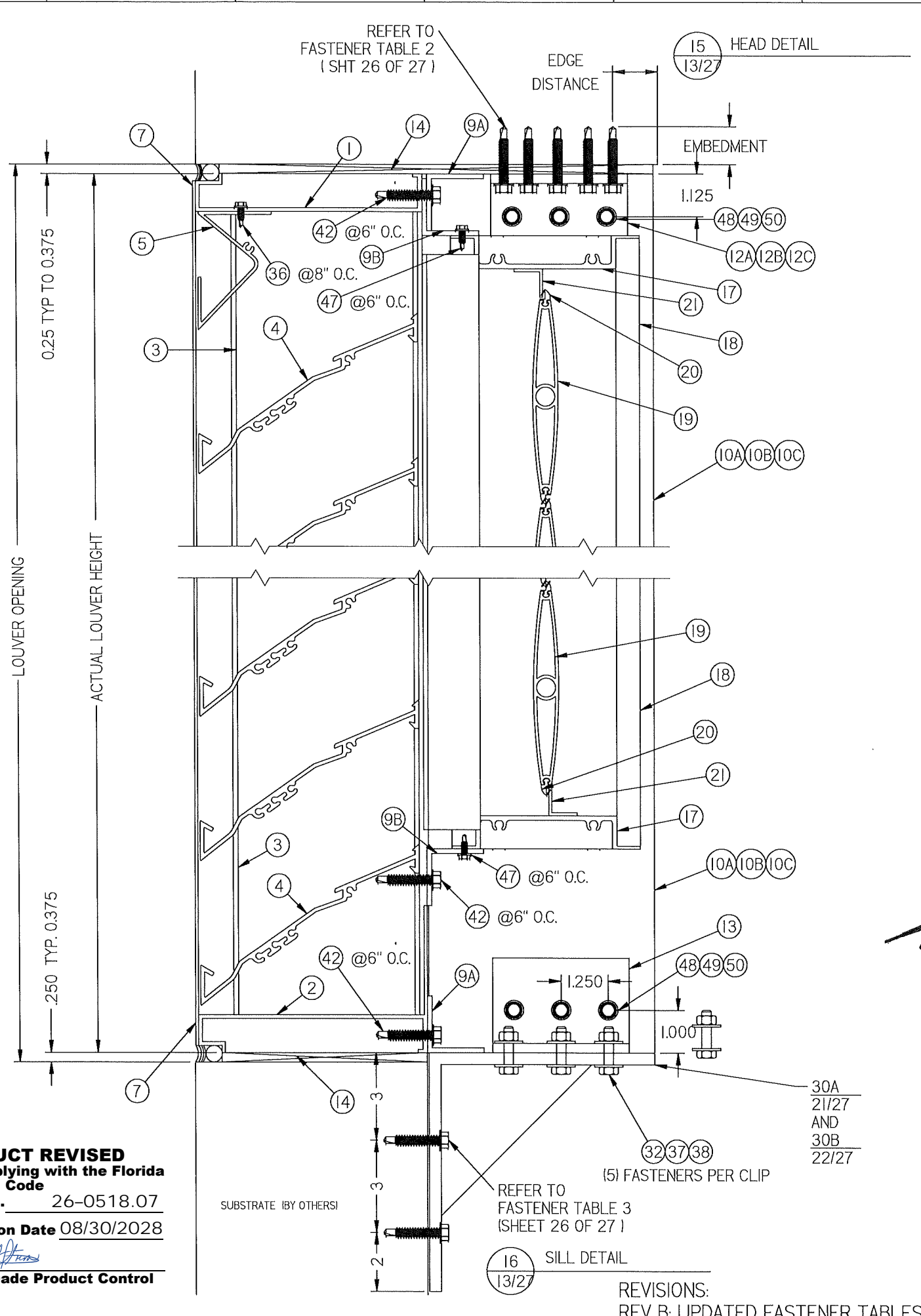
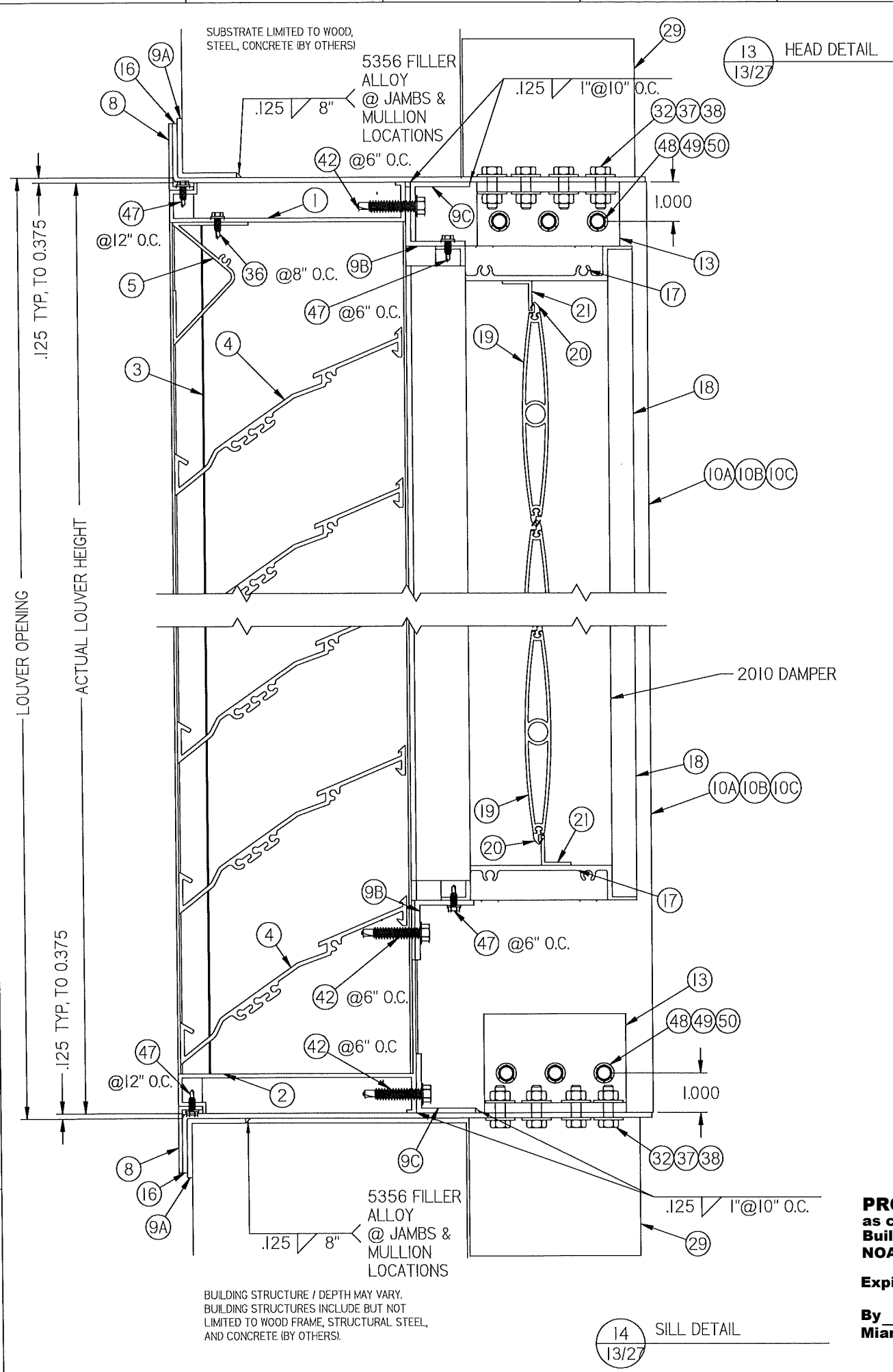


JUN 10 2026

**RICE**  
ENGINEERING

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

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

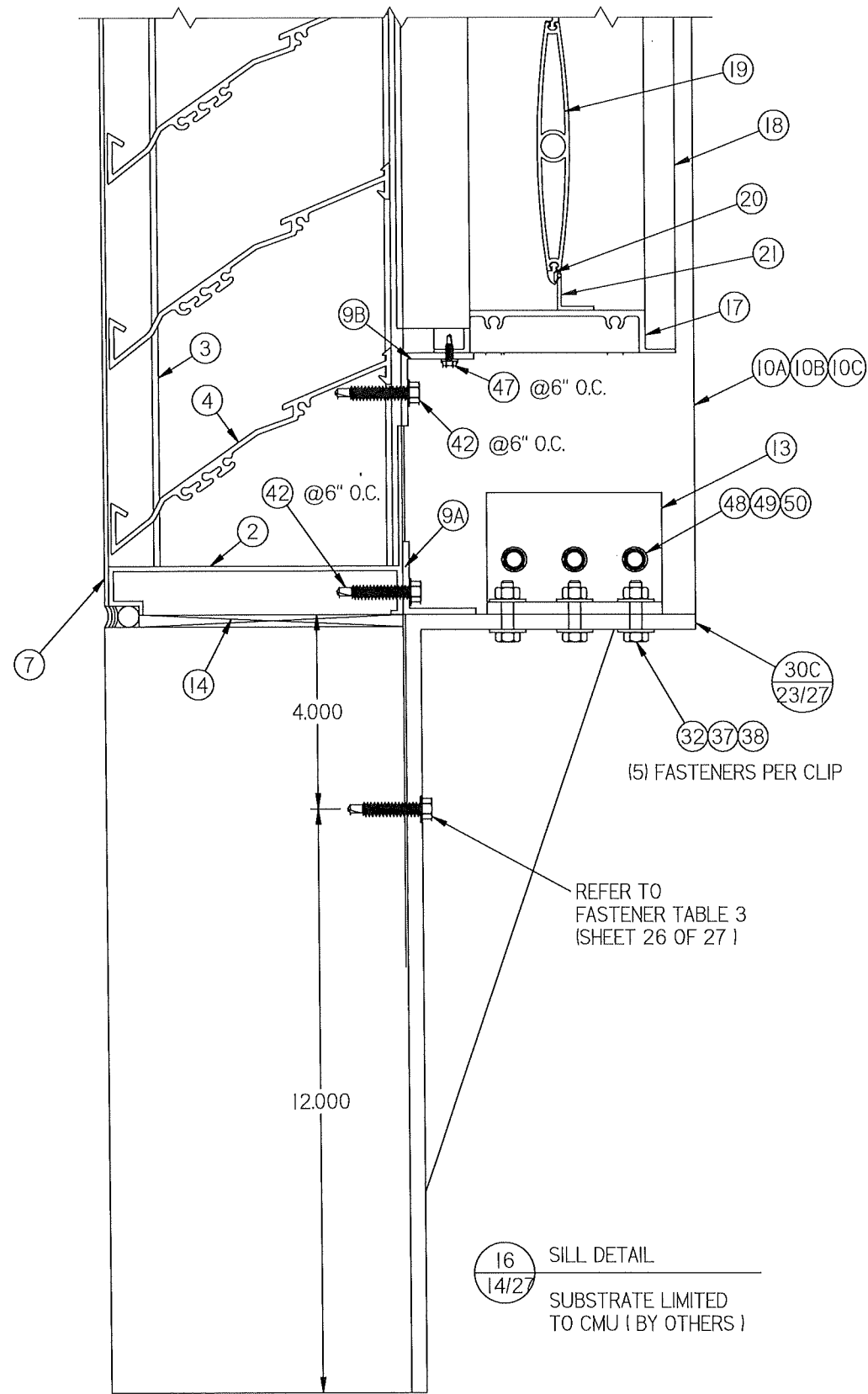


**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control

DWN BY: fcortinas	CHK BY: BDennis	SCALE: NTS
DATE: 4/30/2026		
TITLE: <b>1606DHPM LOUVER / DAMPER</b> <b>FLANGE FRAME W/SLEEVE</b> <b>MULLION ANGLE MOUNT</b> <b>HEAD &amp; SILL DETAIL</b>		
WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER JUN 10 2026		
<b>RICE</b> <b>ENGINEERING</b> 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		

SHEET: 13 OF 27  
 REV B  
 DWG. NO. 1606DHPM

REVISIONS:  
 REV B: UPDATED FASTENER TABLES



REFER TO FASTENER TABLE 3 (SHEET 26 OF 27)

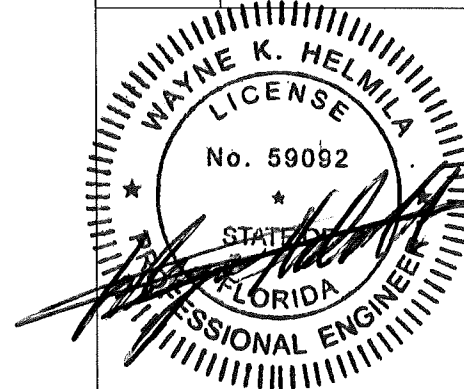
16 SILL DETAIL  
14/27  
SUBSTRATE LIMITED TO CMU ( BY OTHERS )

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *RH*  
Miami-Dade Product Control

REVISIONS:  
REV B: ADDED 16" TALL MASONRY WALL BRACKET W/ UPDATED FASTENER TABLES

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:  
1606DHPM LOUVER / DAMPER  
MULLION ANGLE MOUNT  
CMU SUBSTRATE  
HEAD & SILL DETAIL



JUN 10 2026

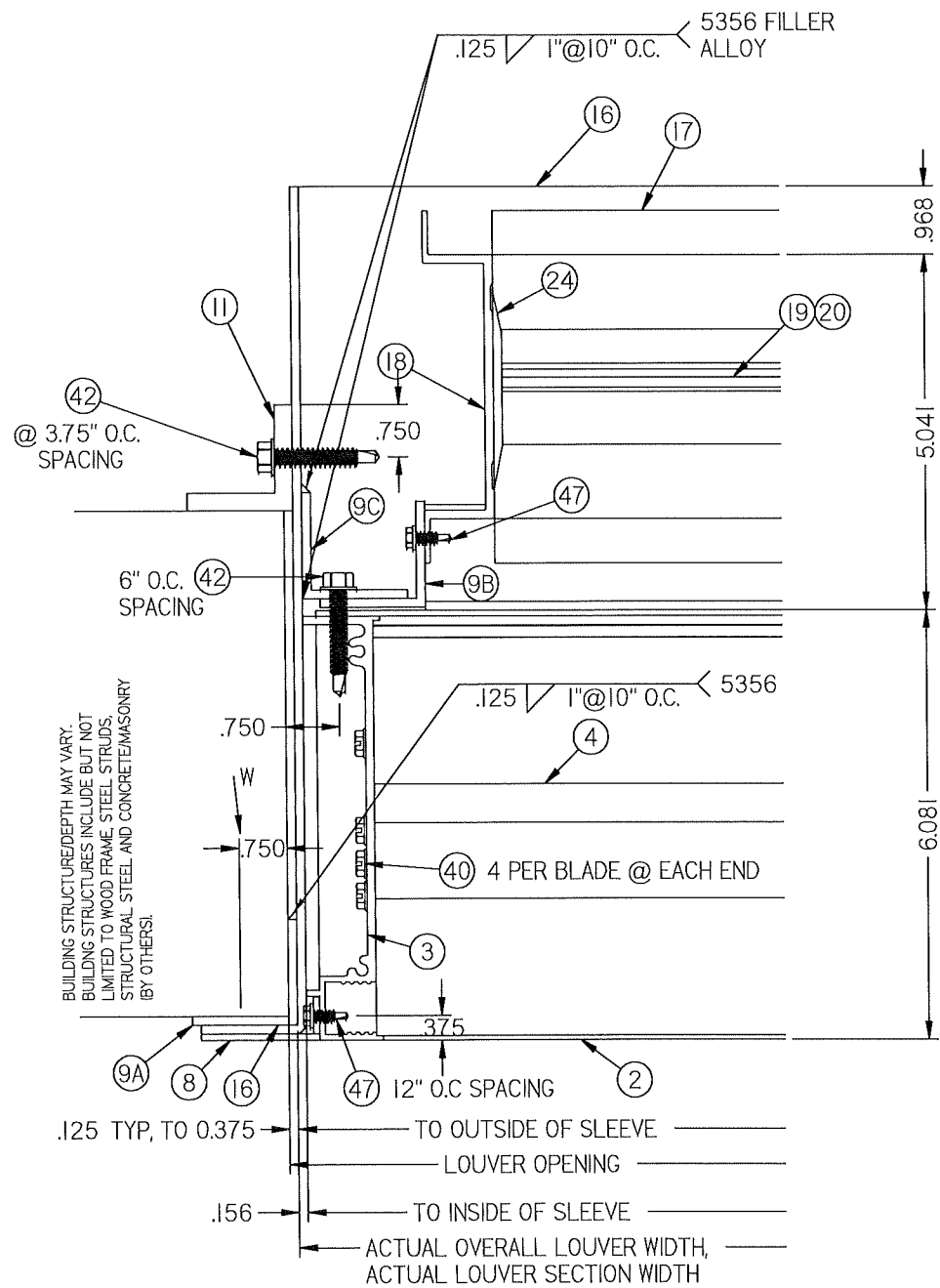
**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

DWN BY: fcortinas  
DATE: 4/30/2026  
CHK BY: BDennis  
SCALE: NTS

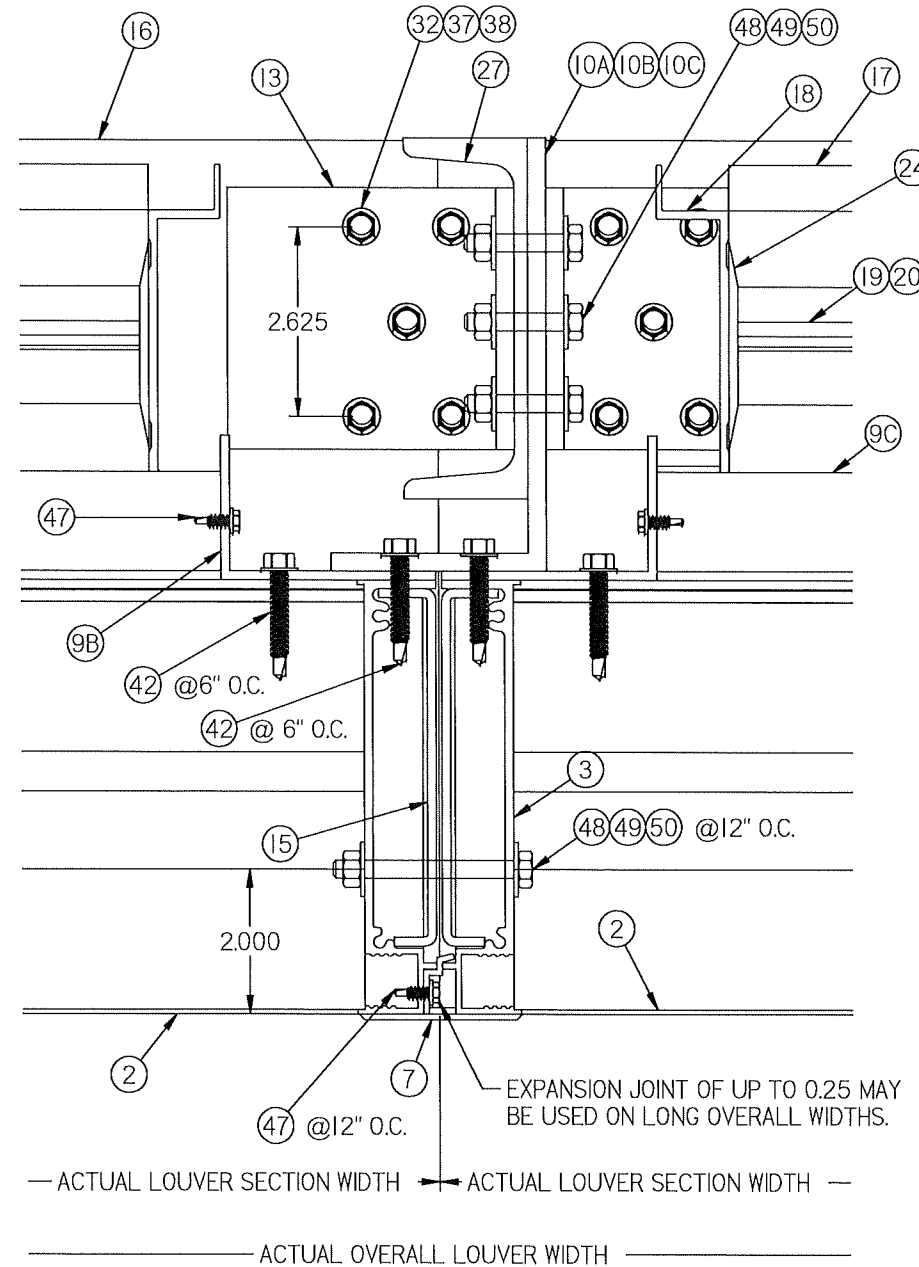
SHEET: 14 OF 27

DWG. NO. 1606DHPM  
REV B

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control



17 JAMB DETAIL  
15/27



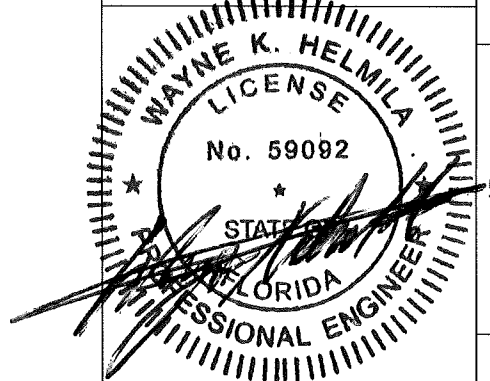
18 MULLION DETAIL SLEEVE MOUNT  
15/27

REVISIONS:  
 REV B: UPDATED PAGE NUMBERS

DWN BY: fcortinas	CHK BY: BDennis
DATE: 4/30/2026	SCALE: NTS
SHEET: 15 OF 27	
DWG. NO.	REV
1606DHPM	B

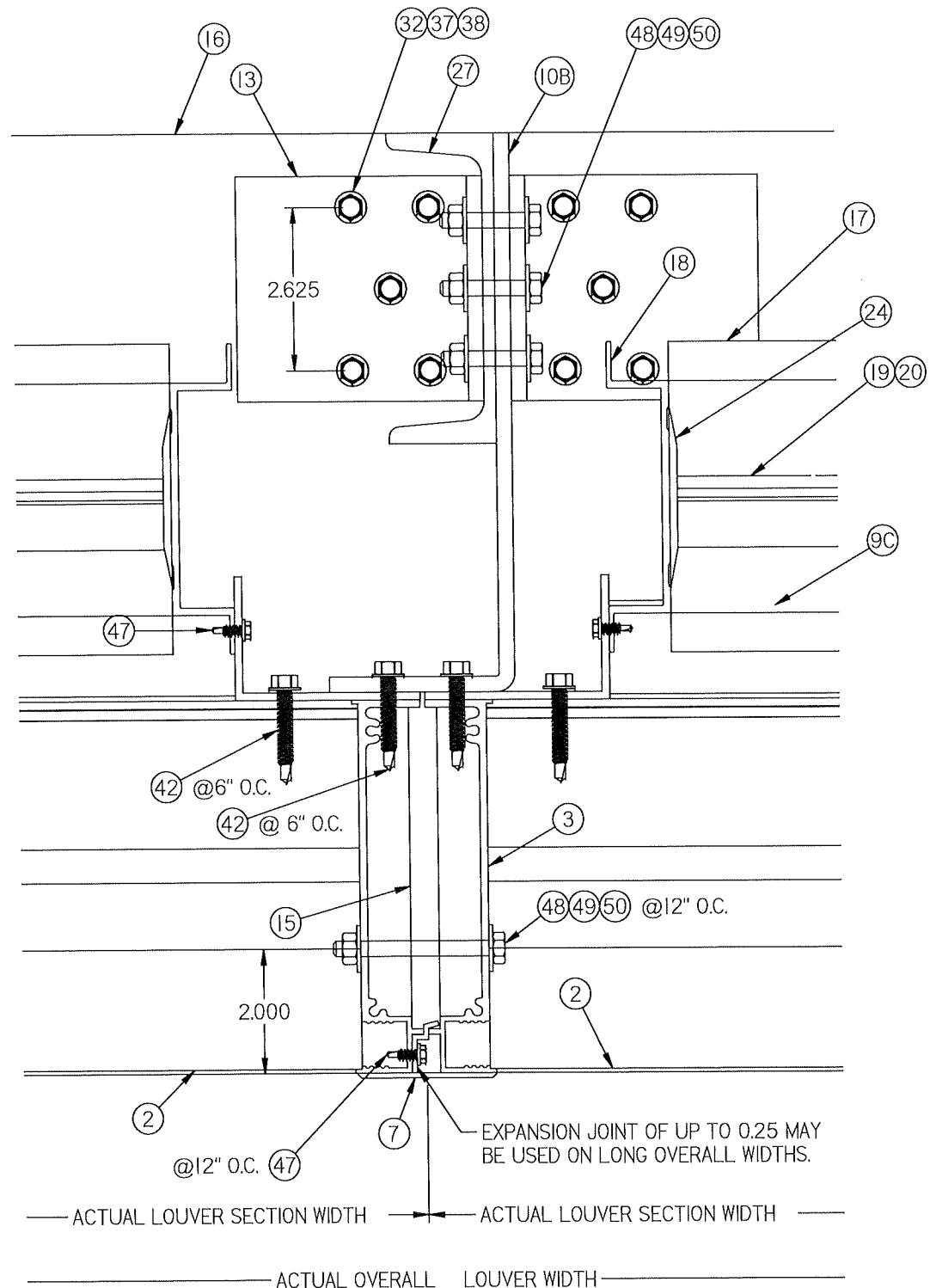
**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:  
 1606DHPM LOUVER / DAMPER  
 FLANGE FRAME SLEEVE MOUNT  
 JAMB AND MULLION DETAIL



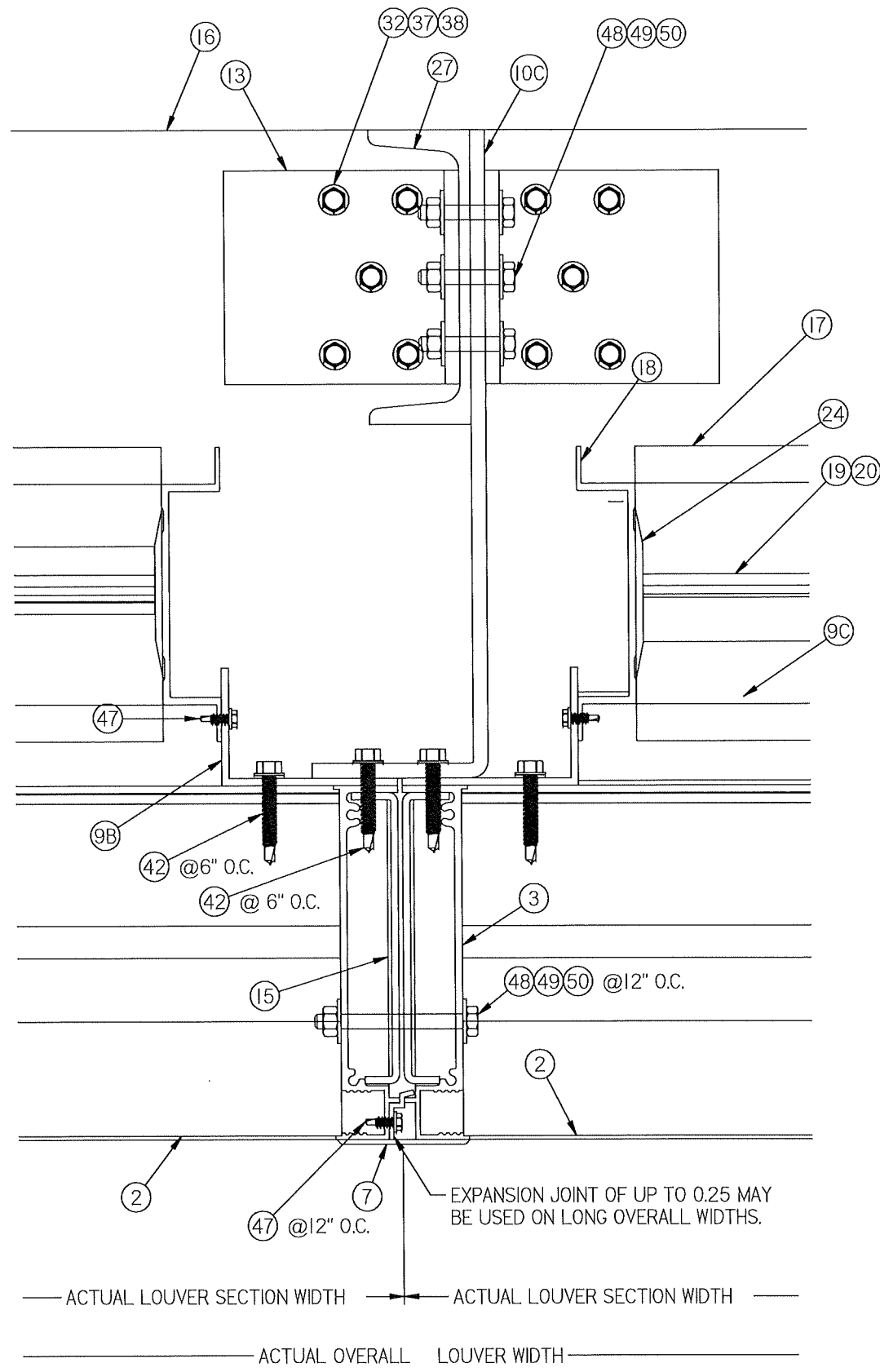
JUN 10 2026

**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



18A  
 16/27  
 MULLION DETAIL SLEEVE MOUNT  
 FOR 36" BLADE SLEEVE MOUNT  
 STEEL C6X8.2 & ALUM 9X3 X 1/4"

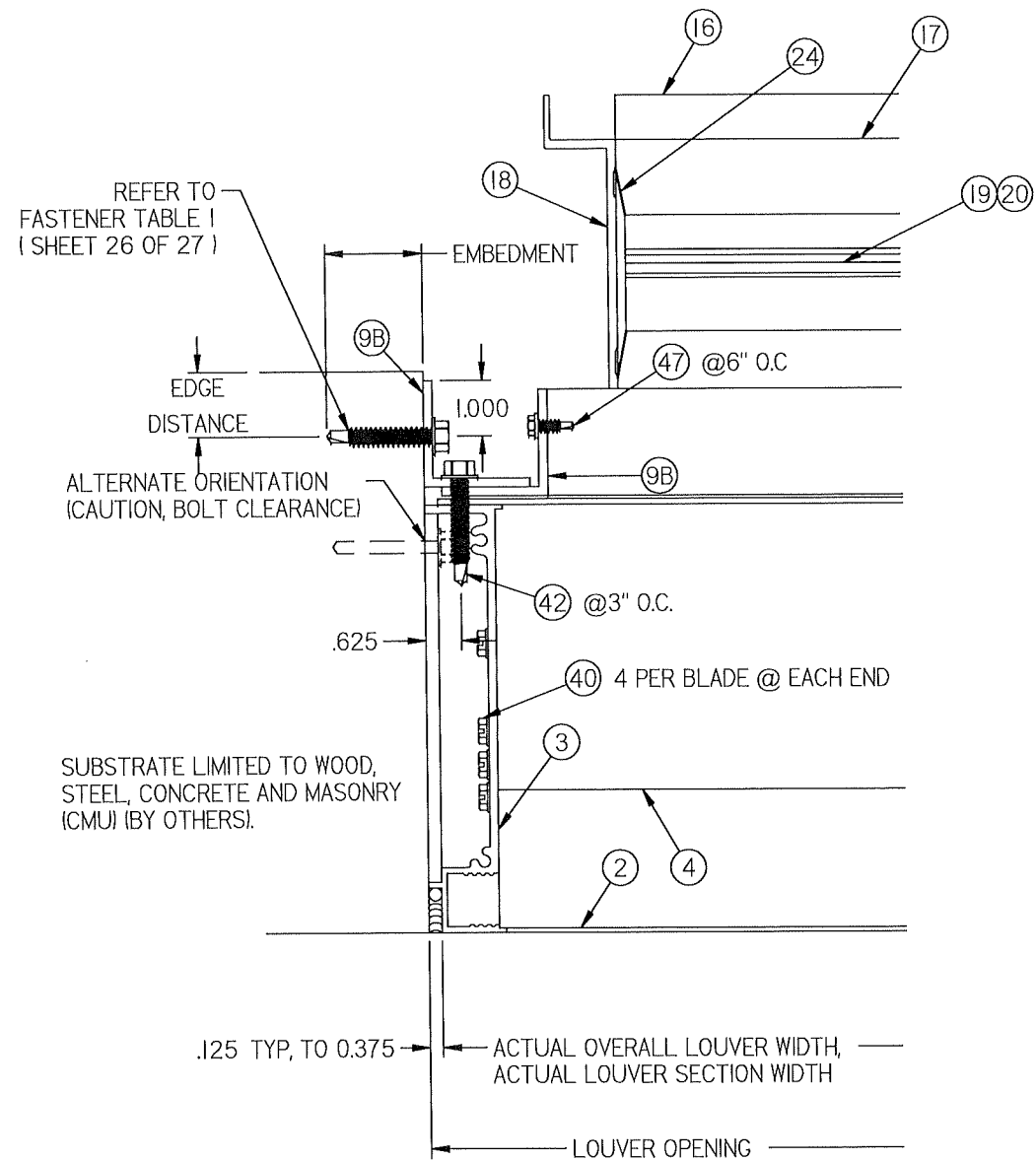
**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control



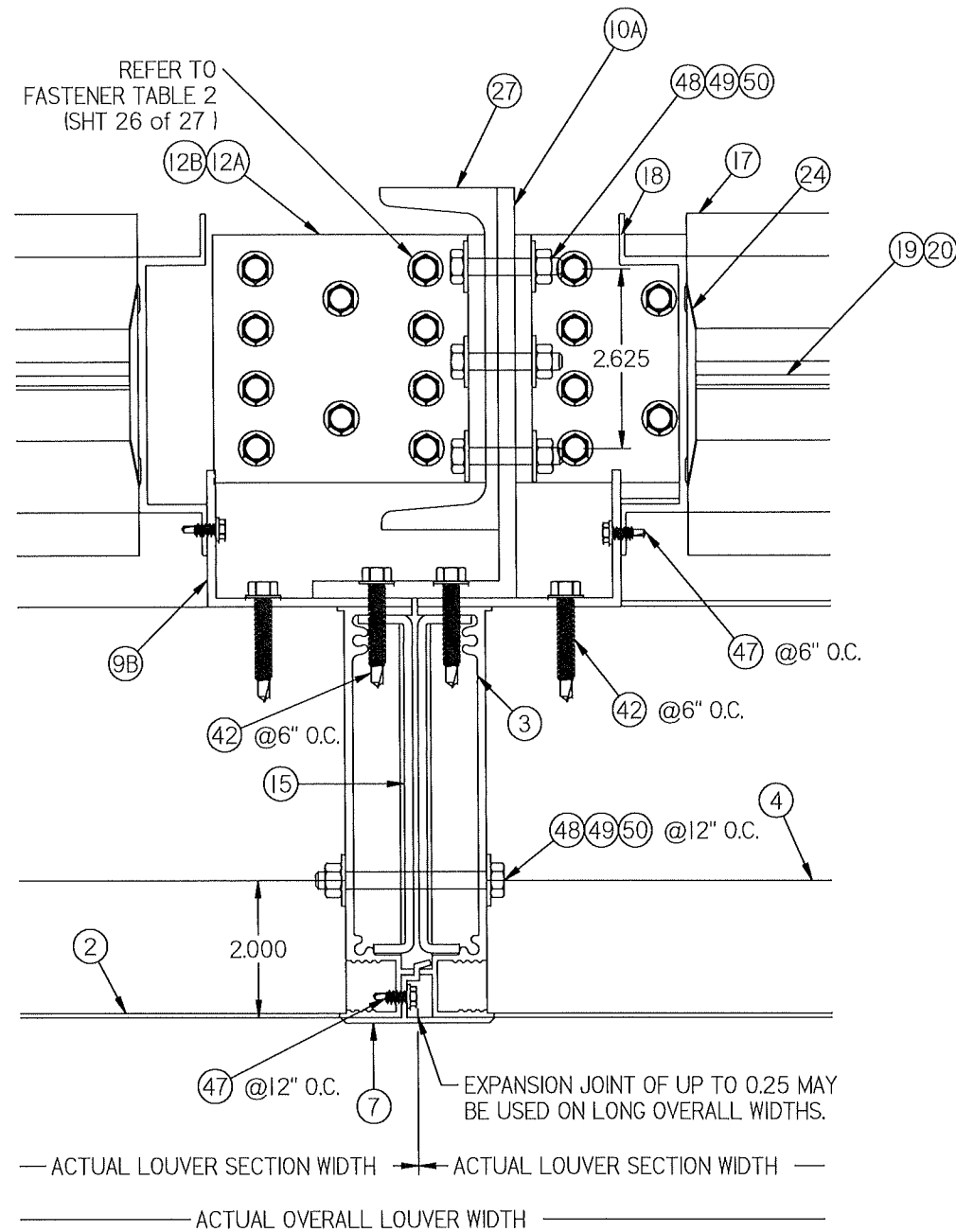
18B  
 16/27  
 MULLION DETAIL SLEEVE MOUNT  
 FOR 36" BLADE SLEEVE MOUNT  
 STEEL C6X8.2 & ALUM 11X3 X 1/4"

REVISIONS:  
 REV B: ADDED 9X3 ANGLE AND  
 11 X 3 ANGLE SECTION.  
 REV B: UPDATED PAGE NUMBER.

DWN BY: fcortinas	CHK BY: BDennis	SHEET: 16 OF 27	REV B
DATE: 4/30/2026	SCALE: NTS		
Nailor Industries of Texas, Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086		TITLE: 1606DHPM LOUVER / DAMPER FLANGE FRAME SLEEVE MOUNT 9 X3 X 1/4 & 9 X 11 X 1/4 ANGLE MULLION DETAIL	
WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER		JUN 10 2026	
<b>RICE</b> 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	



19 JAMB DETAIL  
17/27

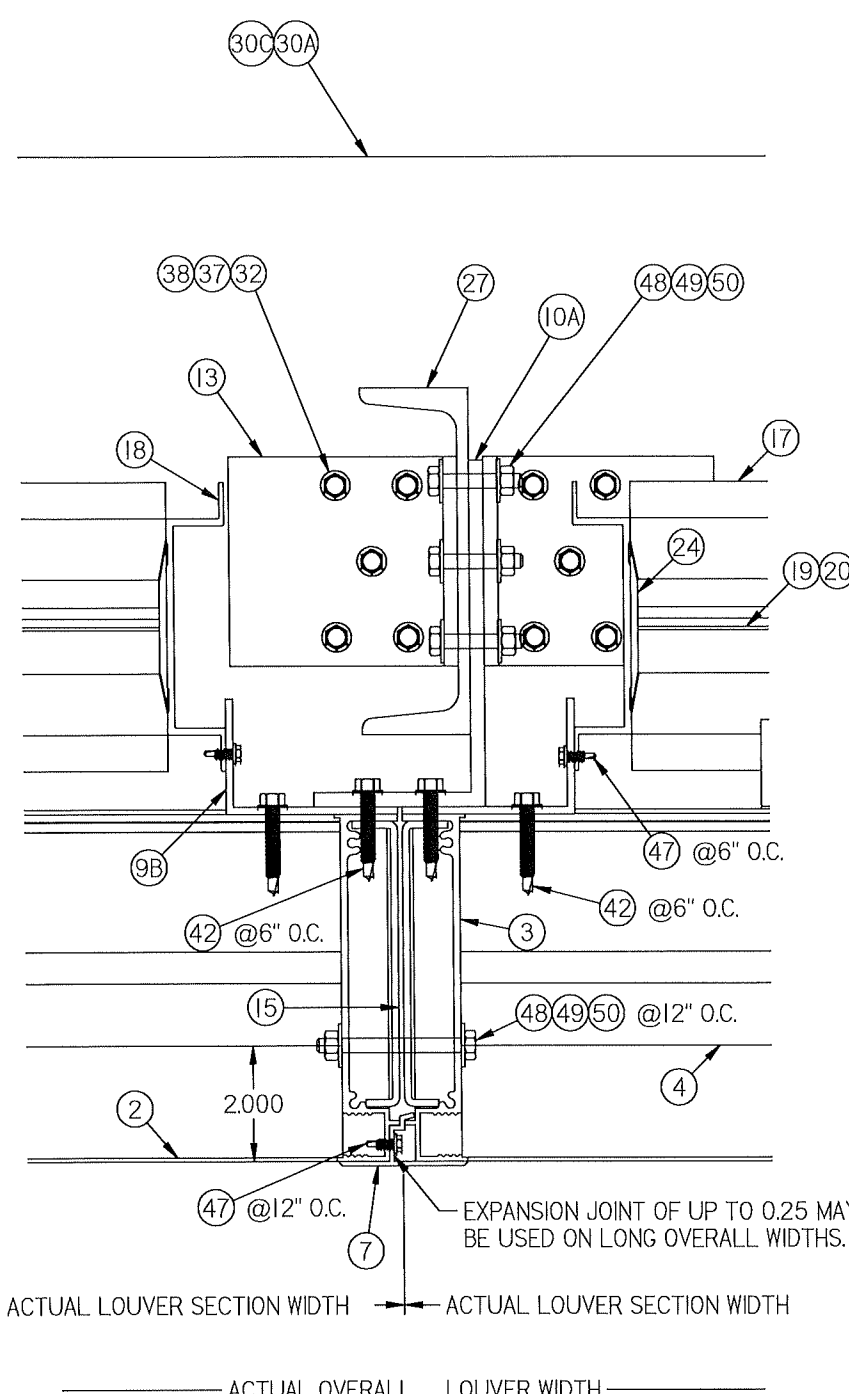


20 MULLION DETAIL DIRECT MOUNT  
17/27

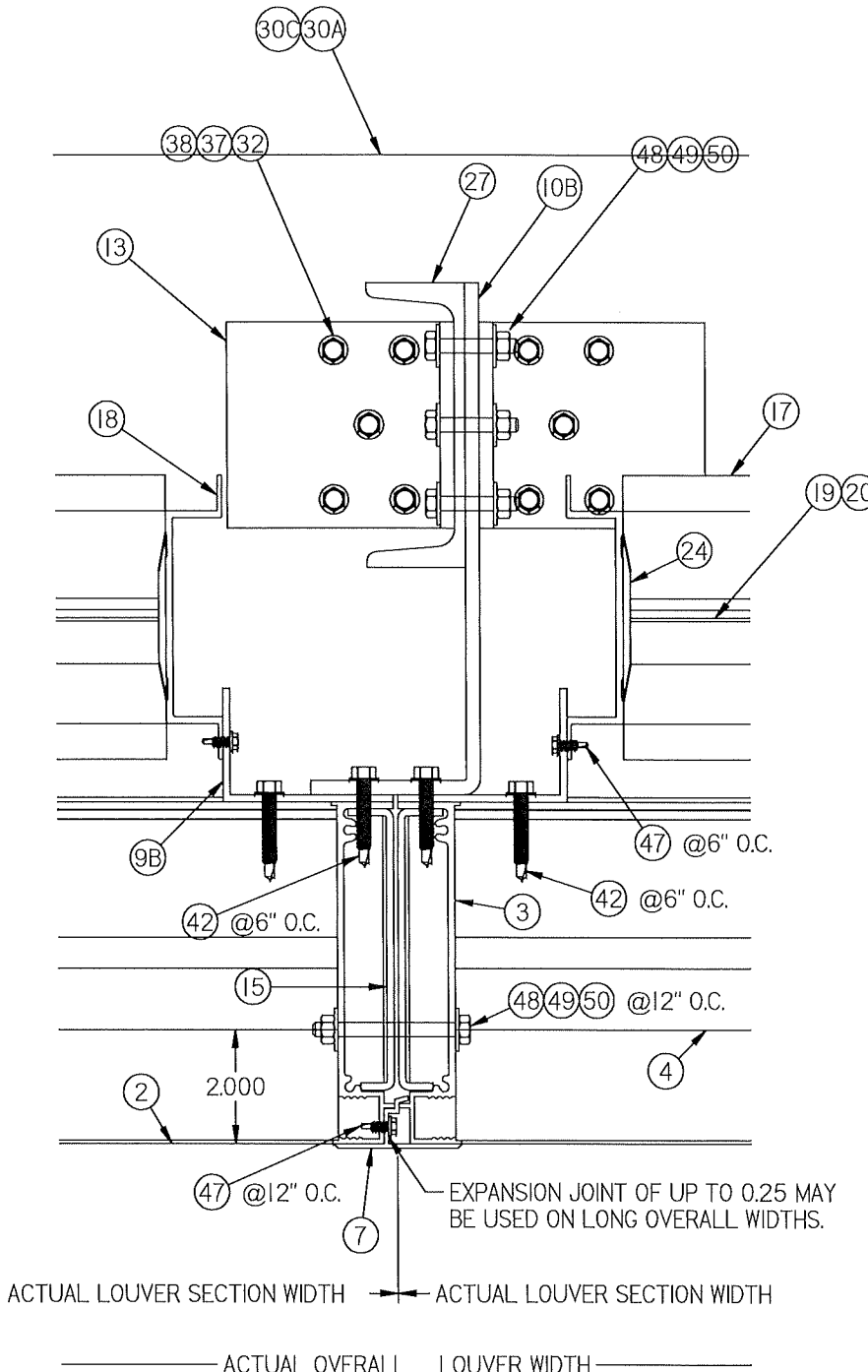
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control

REVISIONS:  
REV B: UPDATED FASTENER TABLES  
AND PAGE NUMBERS.

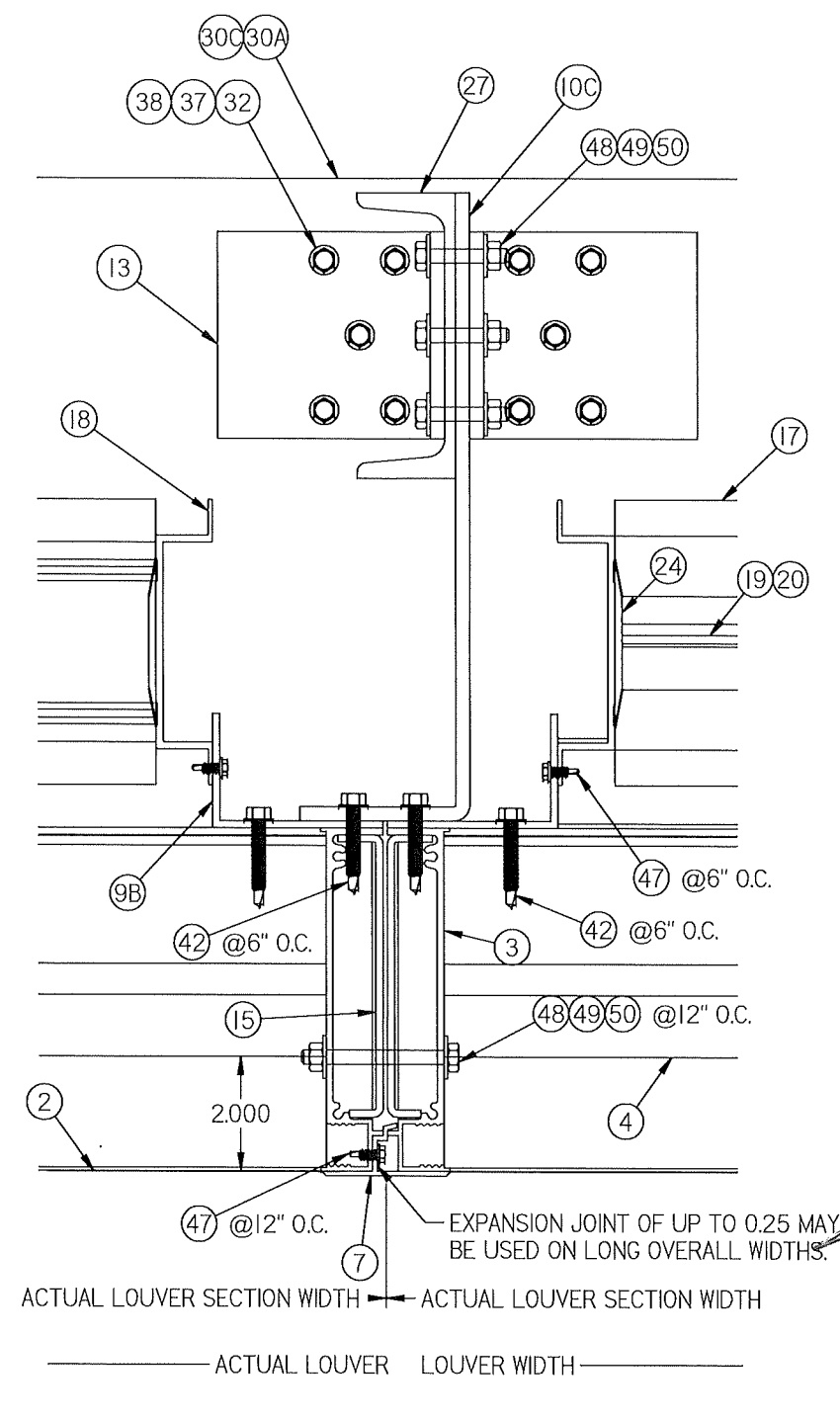
DWN BY: fcortinas	CHK BY: BDennis	SHEET: 17 OF 27	REV B
DATE: 4/30/2026	SCALE: NTS		
Nailor Industries of Texas, Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086		TITLE: <b>1606DHPM LOUVER / DAMPER          CONTINUOUS ANGLE MOUNT          JAMB AND MULLION DETAIL</b>	
		JUN 10 2026	
<b>RICE</b> ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-0100005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092		DWG. NO. <b>1606DHPM</b>	



20 A  
18/27  
MULLION DETAIL BACK OF WALL MOUNT FOR 36" BLADE SLEEVE MOUNT STEEL C6X8.2 & ALUM 6X3 X 1/4 "



20 B  
18/27  
MULLION DETAIL BACK OF WALL MOUNT FOR 36" BLADE SLEEVE MOUNT STEEL C6X8.2 & ALUM 9X3 X 1/4 "



20 C  
18/27  
MULLION DETAIL BACK OF WALL MOUNT FOR 36" BLADE SLEEVE MOUNT STEEL C6X8.2 & ALUM 11X3 X 1/4 "

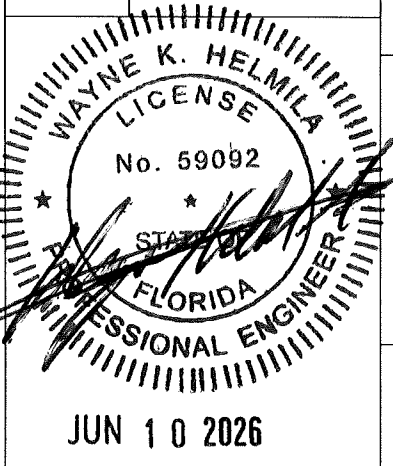
**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control

REVISIONS:  
REV B: ADDED 9X3 ANGLE AND 11 X 3 ANGLE SECTION.  
REV B: UPDATED PAGE NUMBER.

DWN BY: fcortinas	CHK BY: BDennis
DATE: 4/30/2026	SCALE: NTS
SHEET: 18 OF 27	
DWG. NO.	REV B
1606DHPM	

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

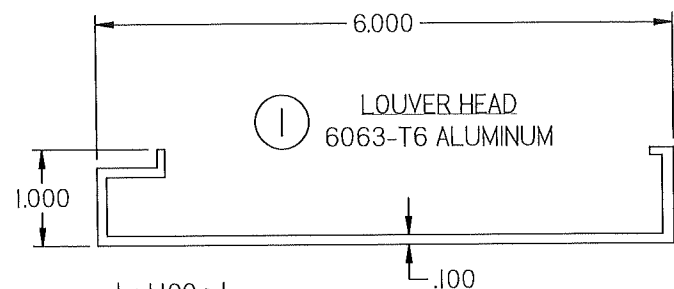
TITLE:  
1606DHPM LOUVER / DAMPER  
CONTINUOUS ANGLE MOUNT  
9 X3 X 1/4 & 9 X 11 X 1/4 ANGLE  
MULLION DETAIL



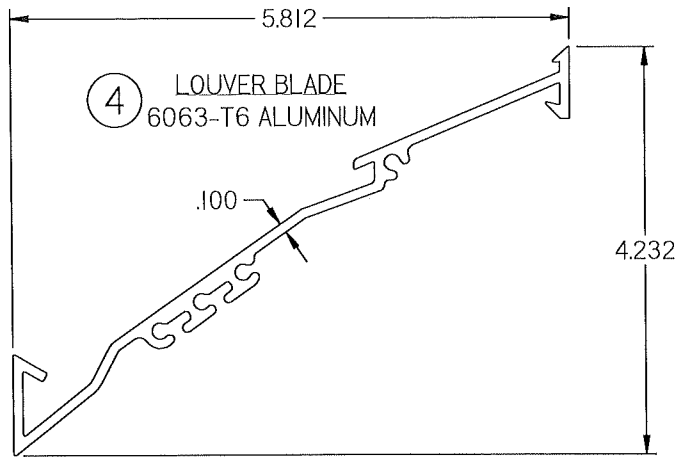
JUN 10 2026

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

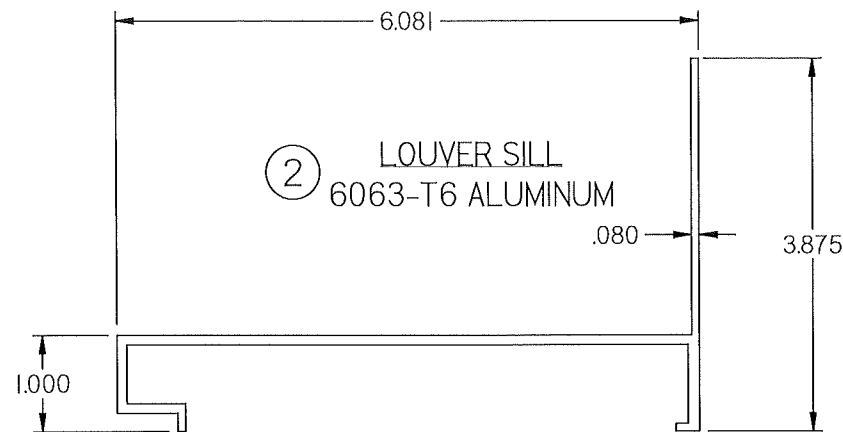
Florida Firm No: F-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helmla  
Registration No: 59092



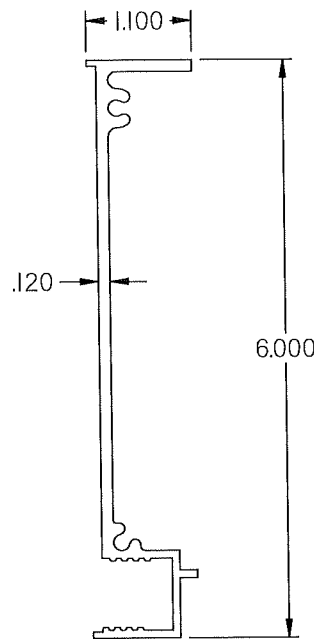
① LOUVER HEAD  
6063-T6 ALUMINUM



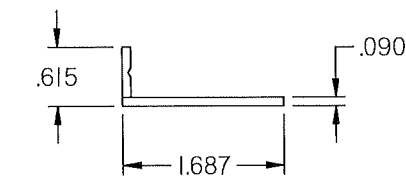
④ LOUVER BLADE  
6063-T6 ALUMINUM



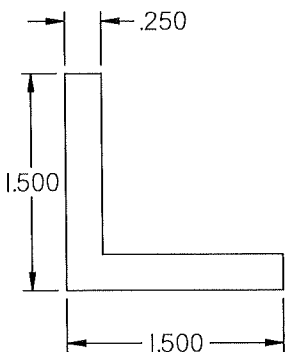
② LOUVER SILL  
6063-T6 ALUMINUM



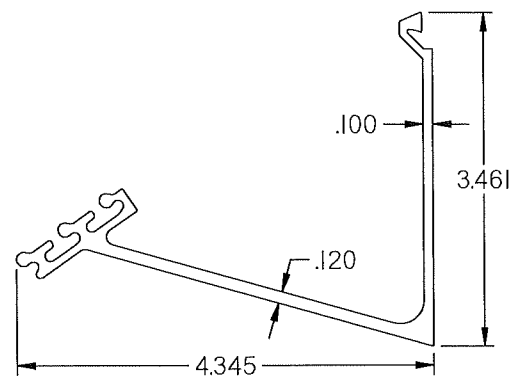
③ LOUVER JAMB  
6063-T6 ALUMINUM



⑧ LOUVER FLANGE  
6063-T6 ALUMINUM



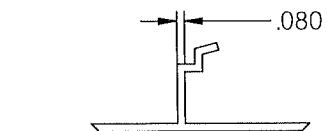
⑪ LOUVER SLEEVE MOUNT ANGLE  
6063-T6 ALUMINUM



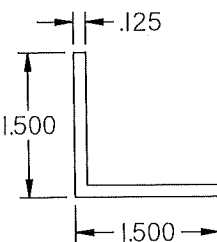
⑥ LOUVER BLADE BRACE  
6063-T6 ALUMINUM

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control

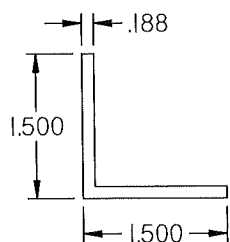
⑭ ALUMINUM SUPPORT SHIM  
1/4" THICK  
5052-H32 ALUMINUM



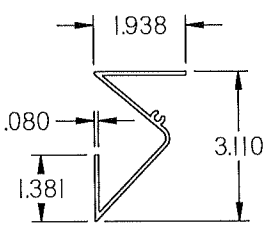
⑦ MULLION COVER  
6063-T6 ALUMINUM



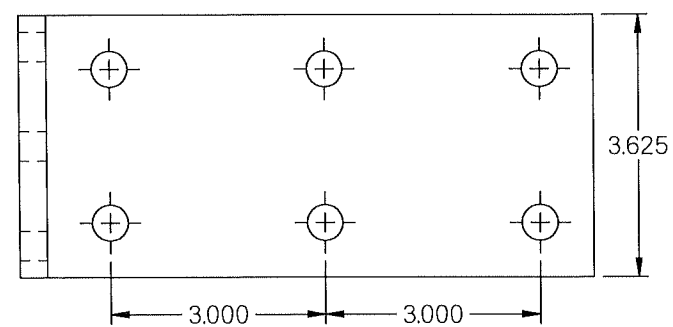
⑨A LOUVER SLEEVE  
ATTACHMENT ANGLE CONT.  
6063-T6 ALUMINUM



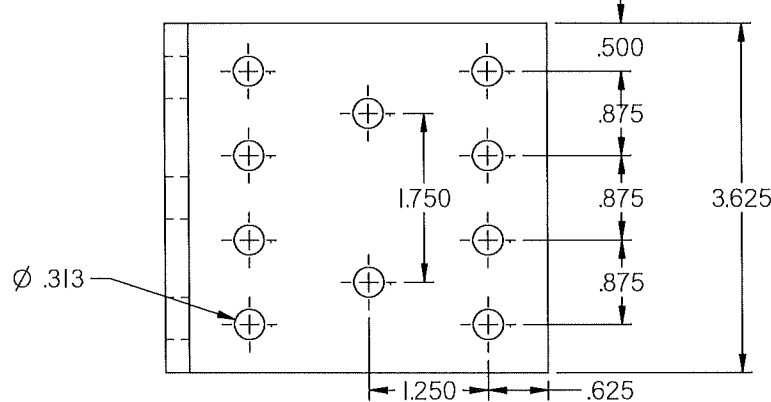
⑨C LOUVER SLEEVE  
ATTACHMENT ANGLE CONT.  
6061-T6 ALUMINUM



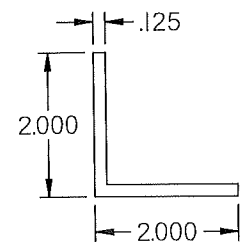
⑤ DRAIN HEAD  
6063-T6 ALUMINUM



⑫B MULLION MOUNTING ANGLE  
3.00 X 8.00 X 0.375 X 3.625 LONG  
6061-T6 ALUM. ANGLE  
FOR 1/2" DIA SS. LAG SCREW

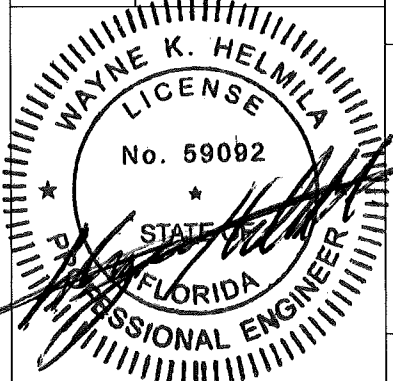


⑫A MULLION MOUNTING ANGLE  
4.00 X 2.50 X 0.25 X 3.625 LONG  
6061-T6 ALUM. ANGLE



⑨B LOUVER SLEEVE  
ATTACHMENT ANGLE CONT.  
6063-T6 ALUMINUM

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



JUN 10 2026

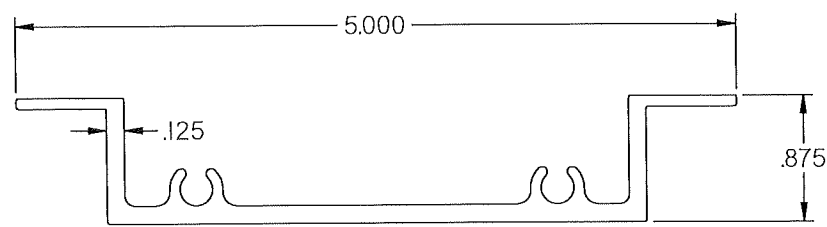
**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

DWN BY: fcortinas CHK BY: BDennis  
DATE: 4/30/2026 SCALE: NTS

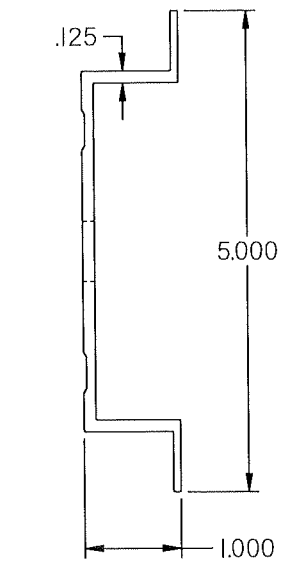
SHEET: 19 OF 27

DWG. NO. 1606DHPM  
REV B

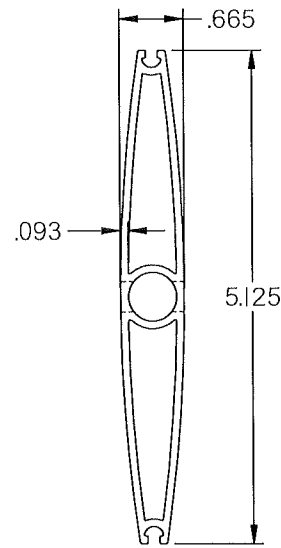
TITLE:  
1606DHPM LOUVER,  
W/ AND W/O DAMPER  
SLEEVE/CONTINUOUS MOUNT  
PART PROFILES



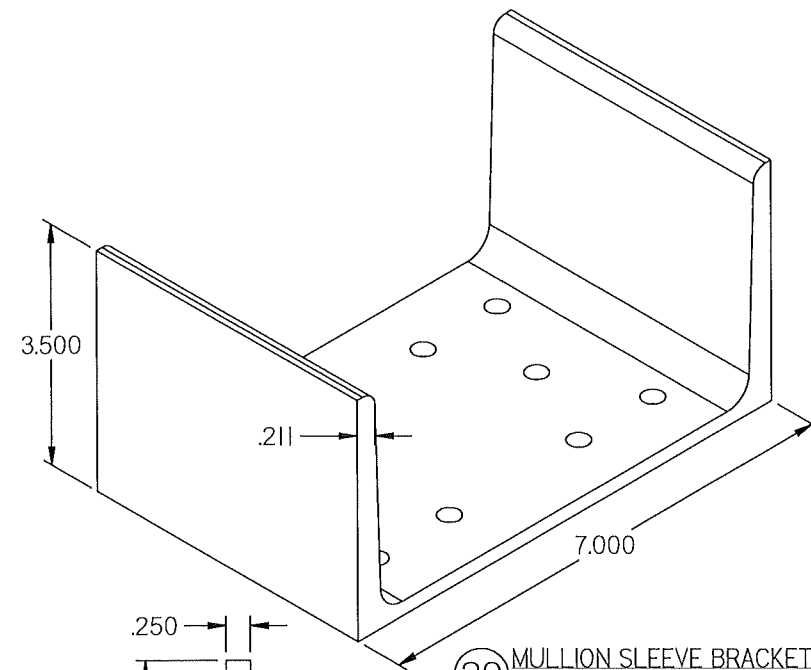
17 DAMPER HEAD/SILL  
6063-T6 ALUMINUM



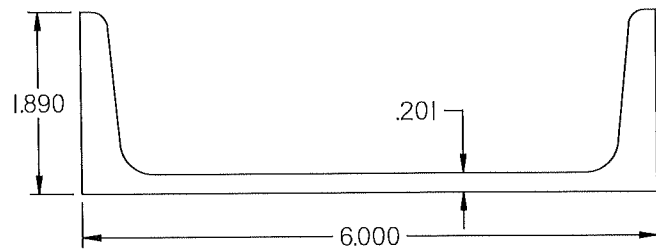
18 DAMPER JAMB  
6063-T6 ALUMINUM



19 DAMPER BLADE  
6063-T6 ALUMINUM

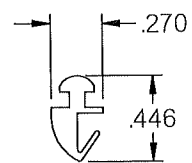


29 MULLION SLEEVE BRACKET  
6061-T6 ALUMINUM

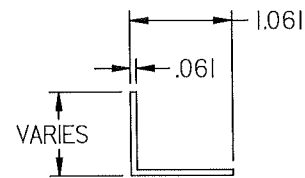


27 LOUVER BRACE  
SUPPORT CHANNEL  
C6X8.2 ASTM A36 STEEL CHANNEL

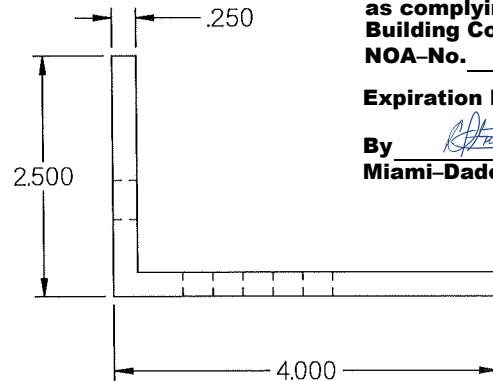
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control



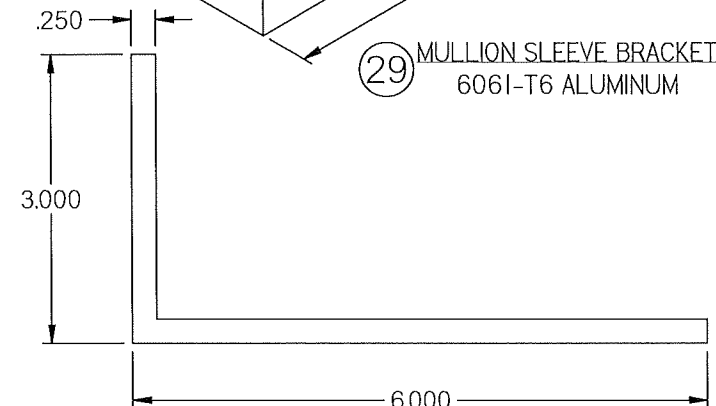
20 DAMPER BLADE SEAL  
MATERIAL VARIES



21 DAMPER TOP/BOTTOM  
CLOSER  
ALUMINUM



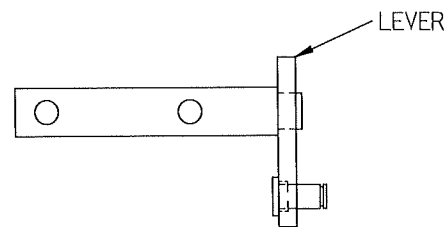
13 SLEEVE ATTACHMENT ANGLE  
4.00X 2.50 X 0.25 X 3.625 LONG  
6061-T6 ALUM. ANGLE



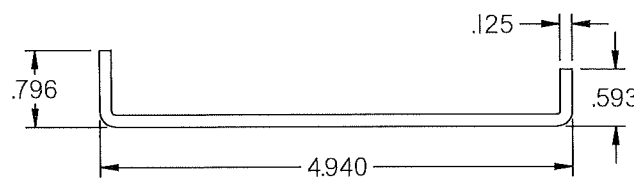
10A LOUVER SUPPORT ANGLE  
6061-T6 ALUMINUM



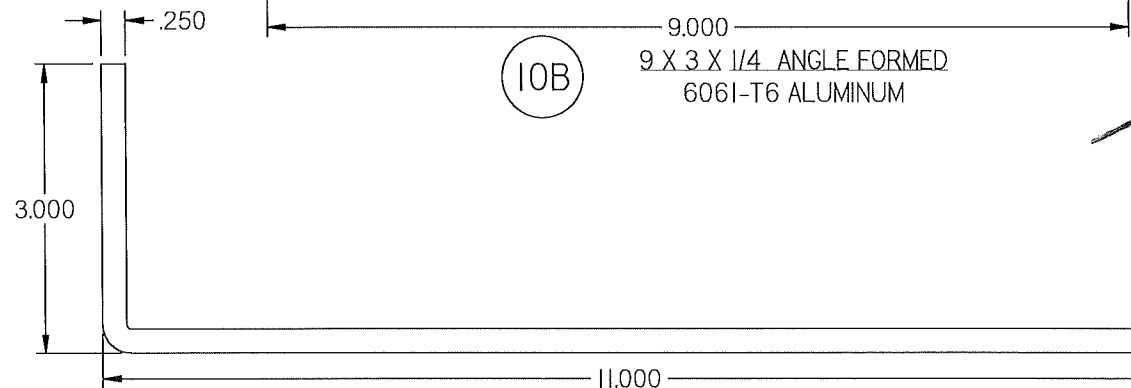
22 DAMPER BUSHING  
MATERIAL VARIES



25 NON DRIVE DAMPER AXEL ASM  
MATERIAL VARIES



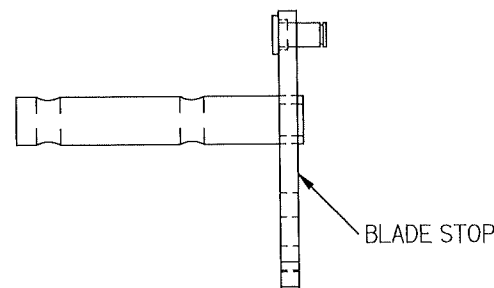
15 MULLION STIFFENER ALUM.  
6063-T6 ALUMINUM



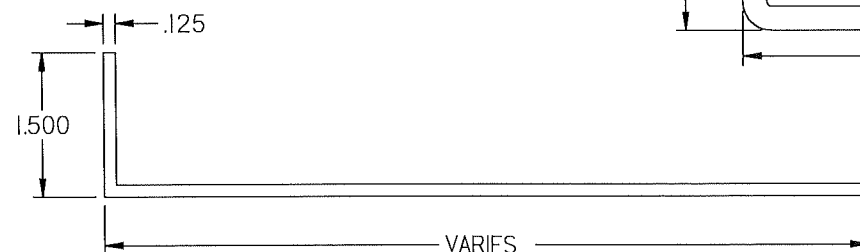
10B 9 X 3 X 1/4 ANGLE FORMED  
6061-T6 ALUMINUM



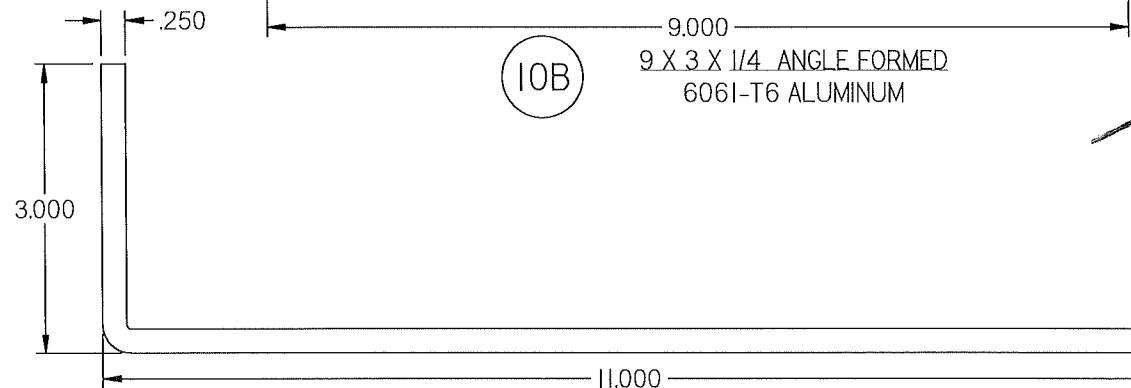
23 DAMPER LINKAGE BAR  
MATERIAL VARIES



26 DRIVE SIDE DAMPER AXLE ASM  
MATERIAL VARIES



16 SLEEVE FORMED ALUM,  
5052-H32 ALUMINUM



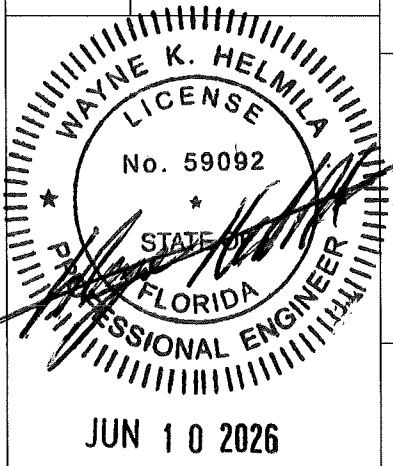
10C 11 X 3 X 1/4 ANGLE FORMED  
6061-T6 ALUMINUM

REVISIONS:  
REV B: ADDED 10A, 9X3 X .25 ANGLE  
10B, 11X3X.25 ANGLE.

DWN BY: fcortinas	CHK BY: BDennis
DATE: 4/30/2026	SCALE: NTS
SHEET: 20 OF 27	
DWG. NO.	REV B
1606DHPM	

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE: 1606DHPM LOUVER  
W/ AND W/O DAMPER  
SLEEVE/CONTINUOUS MOUNT  
PART PROFILES CONT.



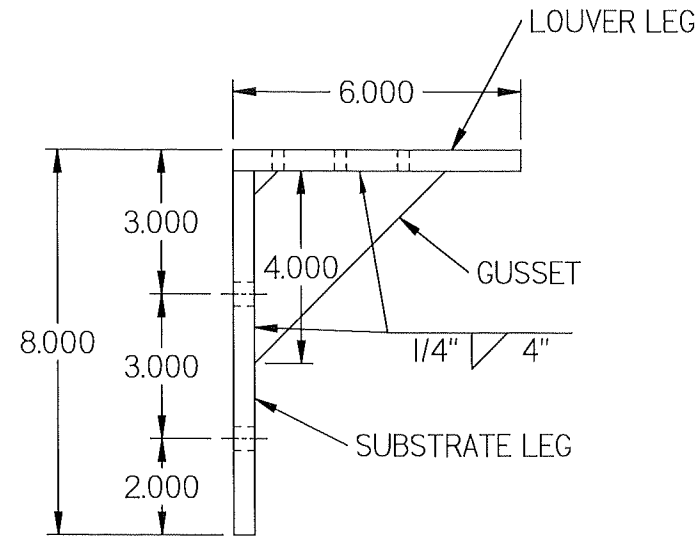
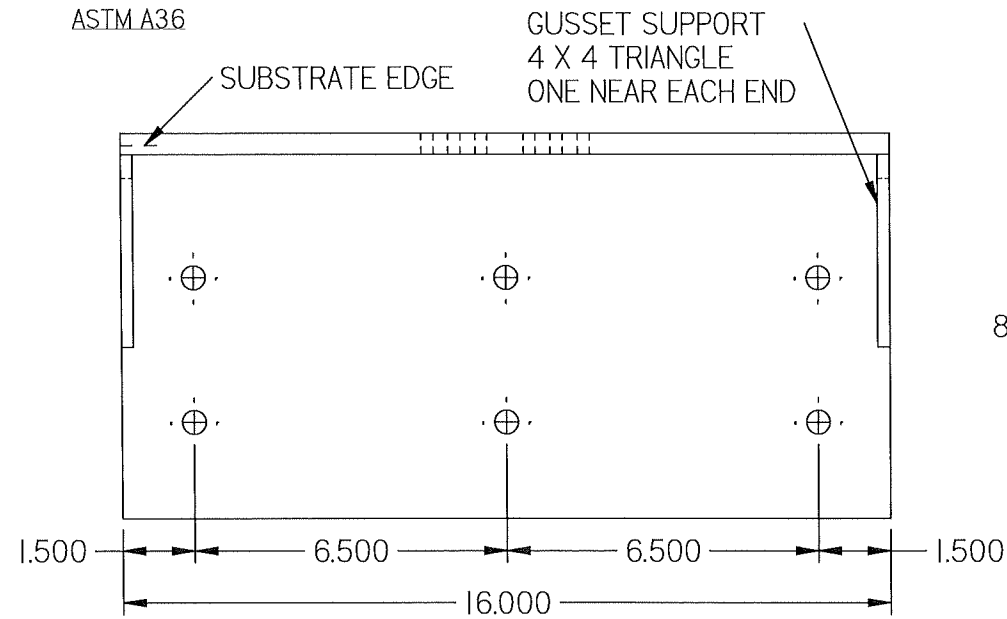
**RICE ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

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

**30A** MULLION MOUNTING BRACKET  
FOR MULLION ANGLE BACK OF WALL MOUNT  
ASTM A36

1/2" DIA S.S. 316 HILTI KWIK HUS-EZ

USE (6) 1/2" DIA. S.S. 316 HILTI KWIK HUS-EZ  
3" EMBEDMENT  
6.5" SPACING (HORIZ) / 3" SPACING (VERT.)  
3" MIN. EDGE DISTANCE  
4" MIN END DISTANCE  
SPACING AS SHOWN  
ASSUME FC= 4000 PSI CRACKED CONCRETE



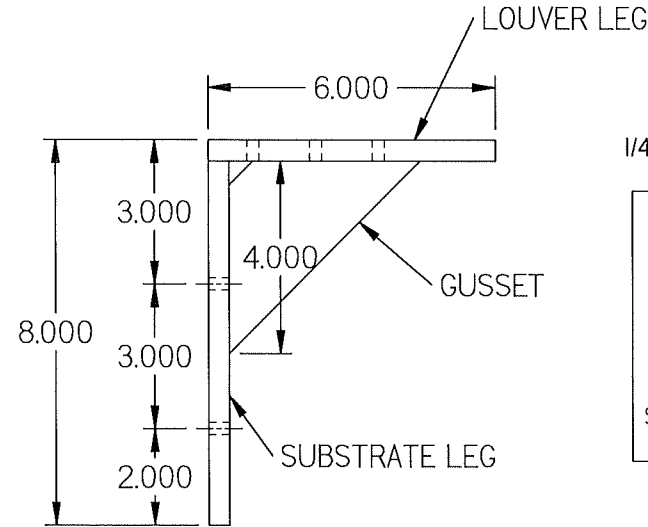
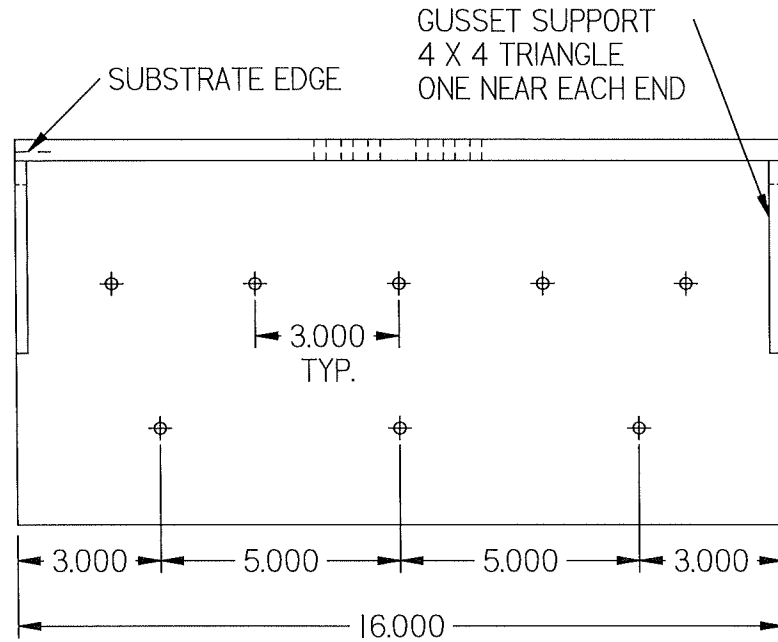
L8X6X7/16 AT 16" LONG  
STEEL (A36)

THESE MOUNTING BRACKETS ARE  
FOR DETAILS 12B-12/27,  
20A-18/27, 20B-18/27, AND  
20C-18/27  
( CONCRETE AND WOOD )

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control

1/4" DIA LAG SCREWS ANCHORS:

USE (8) 1/4" DIA. X 6" LONG  
STANDARD HEX S.S. SERIES 300  
LAG SCREW  
3-9/32" FULL THREAD ENGAGEMENT  
1-1/2" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: SPRUCE/PINE/FIR, SG=0.42

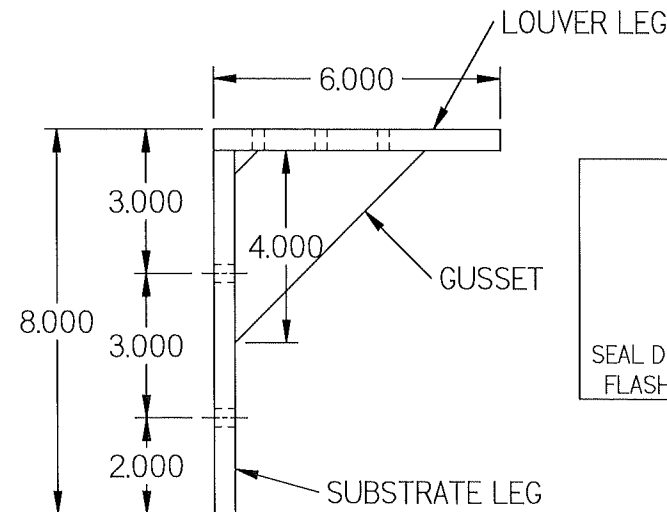
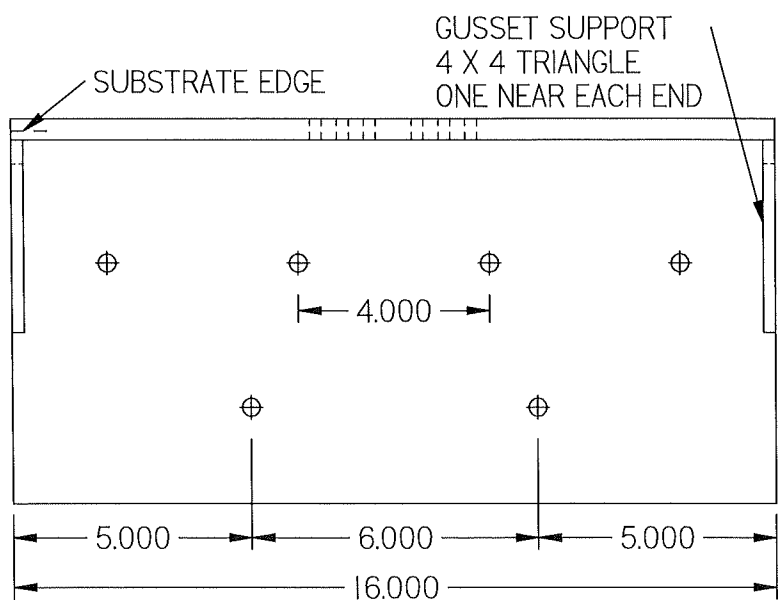


1/4-20 DIA. S.S. ELCO BI-FLEX AND DRIL-FLEX ANCHORS:

USE (8) 1/4" DIA. S.S. SERIES 300  
ELCO BI-FLEX OR  
ELCO DRIL-FLEX FASTENERS  
FULL THREAD ENGAGEMENT  
1" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: 1/4" STEEL (A-36)  
SEAL DRIL-FLEX FASTENERS WITH LIQUID PROSOCO  
FLASHING IF EXPOSED TO EXTERIOR CONDITIONS.

3/8" DIA. LAG SCREWS ANCHORS:

USE (6) 3/8" DIA. X 6" LONG  
STANDARD HEX S.S. SERIES 300  
LAG SCREW  
3-9/32" FULL THREAD ENGAGEMENT  
1-1/2" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: SPRUCE / PINE / FIR, SG= 0.42



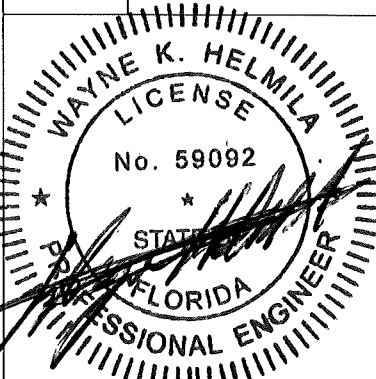
5/16-24 DIA. DRIL-FLEX ANCHORS

USE (6) 5/16" DIA.  
S.S. ELCO DRIL-FLEX FASTENERS  
FULL THREAD ENGAGEMENT  
1" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: 1/4" STEEL (A36)  
SEAL DRIL-FLEX FASTENERS WITH LIQUID PROSOCO  
FLASHING IF EXPOSED TO EXTERIOR CONDITIONS

REVISIONS:  
REV B: UPDATED 16" MULLION BRACKET

DWN BY: fcortinas  
DATE: 4/30/2026  
CHK BY: BDennis  
SCALE: NTS

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



JUN 10 2026

**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

SHEET: 21 OF 27

DWG. NO. **1606DHPM**  
REV B

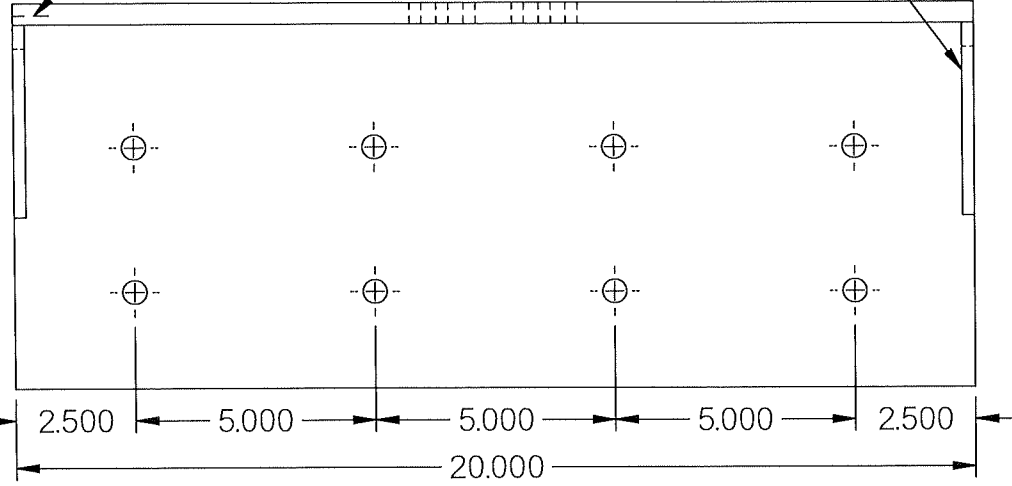
16" MULLION ANGLES  
BACK OF THE WALL MOUNT

TITLE:

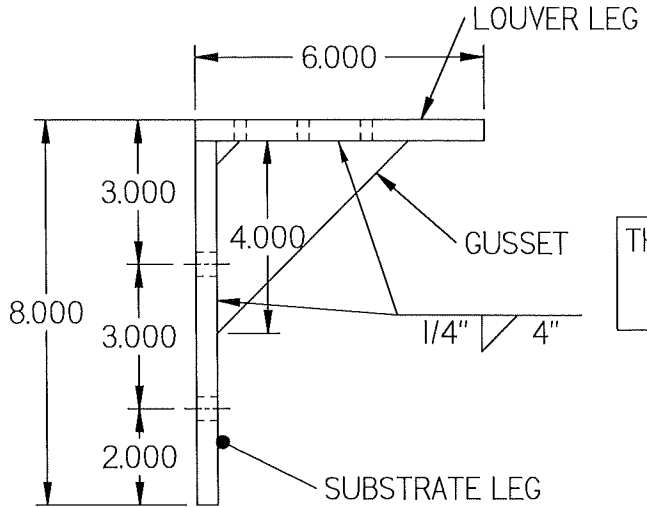
30B

MULLION MOUNTING BRACKET FOR MULLION ANGLE BACK OF WALL MOUNT ASTM A36

GUSSET SUPPORT 4 X 4 TRIANGLE ONE NEAR EACH END



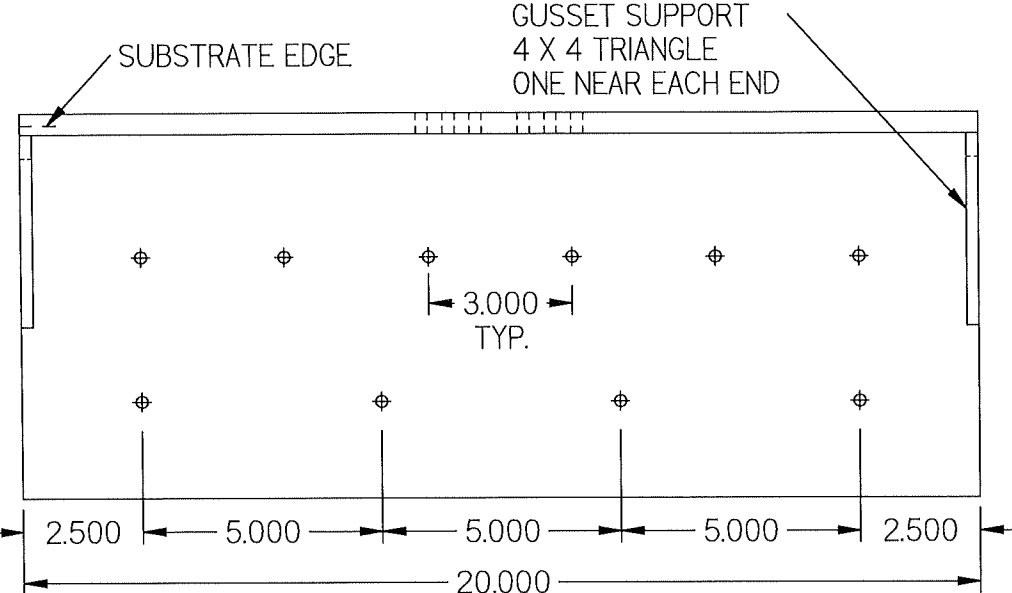
1/2" DIA S.S. SERIES 300 HILTI KWIK BOLT EZ  
 USE (8) 1/2" DIA S.S. SERIES 300 HILTI KWIK BOLT-EZ  
 4-1/4" EMBEDMENT  
 5" SPACING (HORIZ) / 3" SPACING (VERT.)  
 3" MIN. EDGE DISTANCE  
 4" MIN END DISTANCE  
 SPACING AS SHOWN  
 ASSUME FC'= 4000 PSI CRACKED CONCRETE



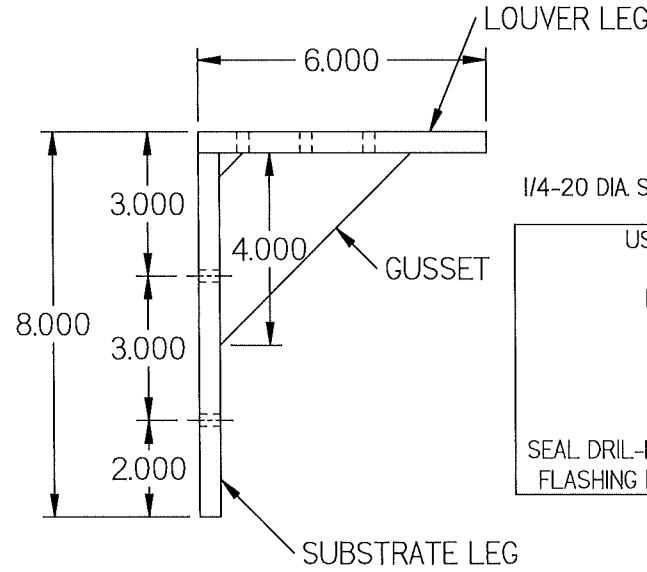
L8X6X7/16 AT 20" LONG STEEL (A36)

THESE MOUNTING BRACKETS ARE FOR DETAILS 10A-10/27 (CONCRETE AND WOOD)

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control

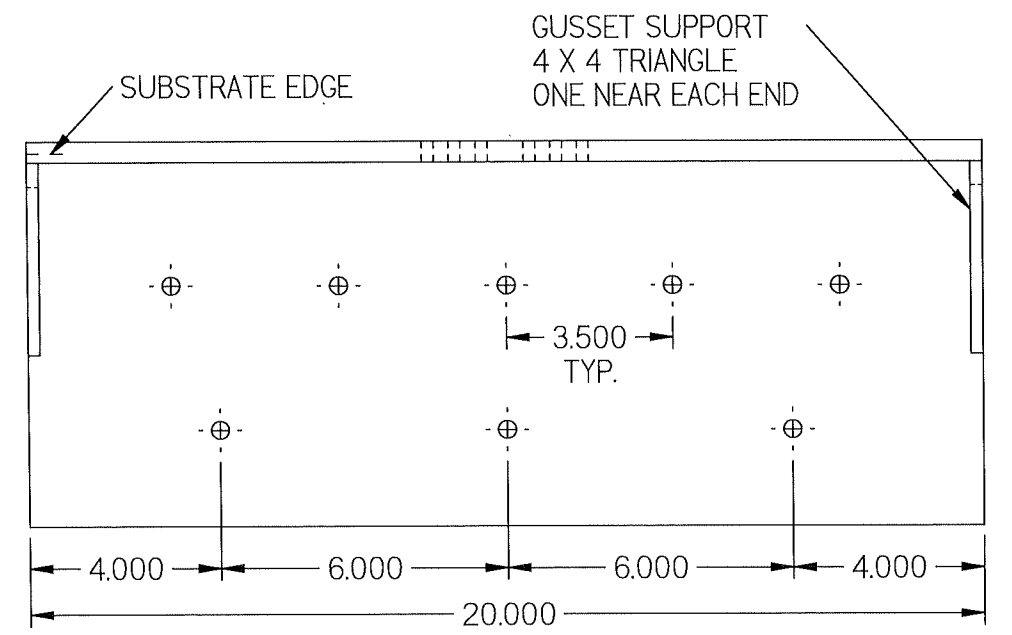


1/4" DIA LAG SCREWS ANCHORS  
 USE (10) 1/4" DIA X 6" LONG STANDARD HEX S.S. SERIES 300 LAG SCREW  
 3-11/32" FULL THREAD ENGAGEMENT  
 1" MIN. EDGE/END DISTANCE  
 SPACING AS SHOWN  
 ASSUME: SPRUCE/PINE/FIR, SG=0.42

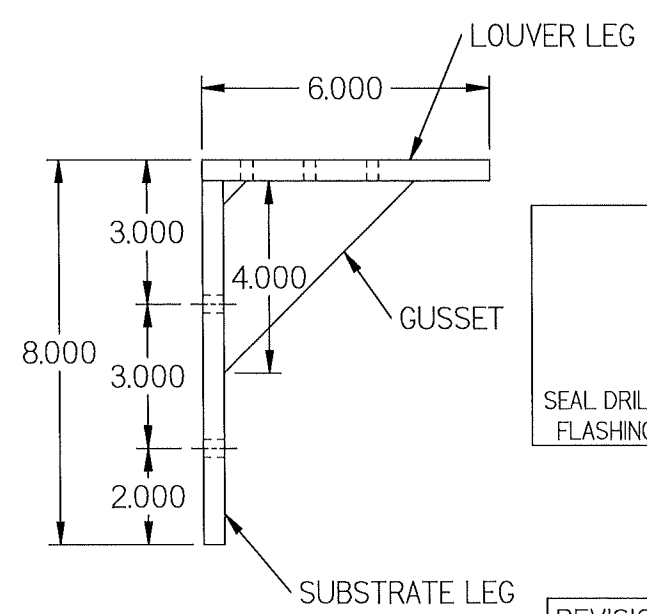


1/4-20 DIA S.S. ELCO BI-FLEX AND DRIL-FLEX ANCHOR

USE (10) 1/4" DIA S.S. SERIES 300 ELCO BI-FLEX OR ELCO DRIL-FLEX FASTENERS FULL THREAD ENGAGEMENT 1" MIN. EDGE/END DISTANCE SPACING AS SHOWN ASSUME: 1/4" STEEL (A-36) SEAL DRIL-FLEX FASTENERS WITH LIQUID PROSOCO FLASHING IF EXPOSED TO EXTERIOR CONDITIONS.



3/8" DIA LAG SCREWS ANCHORS  
 USE (8) 3/8" DIA X 6" LONG STANDARD HEX S.S. SERIES 300 LAG SCREW  
 3-9/32" FULL THREAD ENGAGEMENT  
 1-1/2" MIN. EDGE/END DISTANCE  
 SPACING AS SHOWN  
 ASSUME: SPRUCE / PINE / FIR, SG= 0.42



5/16-24 DIA DRIL-FLEX ANCHOR

USE (8) 5/16" DIA ELCO DRIL-FLEX FASTENERS FULL THREAD ENGAGEMENT 1" MIN. EDGE/END DISTANCE SPACING AS SHOWN ASSUME: 1/4" STEEL (A36) SEAL DRIL-FLEX FASTENERS WITH LIQUID PROSOCO FLASHING IF EXPOSED TO EXTERIOR CONDITIONS

REVISIONS: REV B: ADDED 20" MULLION BRACKET

CHK BY: BDennis  
DWN BY: fcortinas  
DATE: 4/30/2026  
SCALE: NTS

**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



JUN 10 2026

**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

SHEET: 22 OF 27

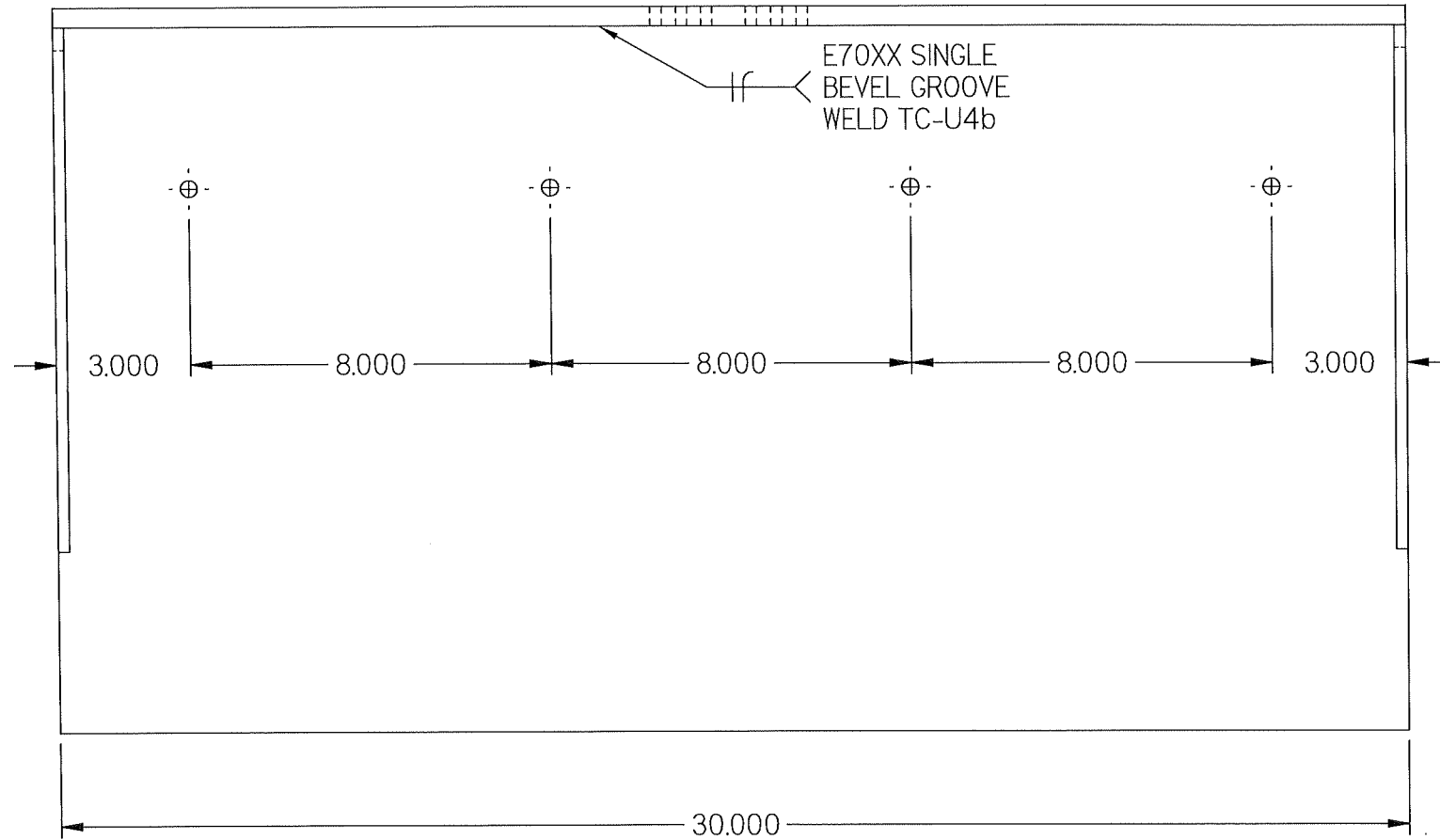
REV B  
 DWG. NO. 1606DHPM

20" MULLION ANGLES BACK OF THE WALL MOUNT

30C

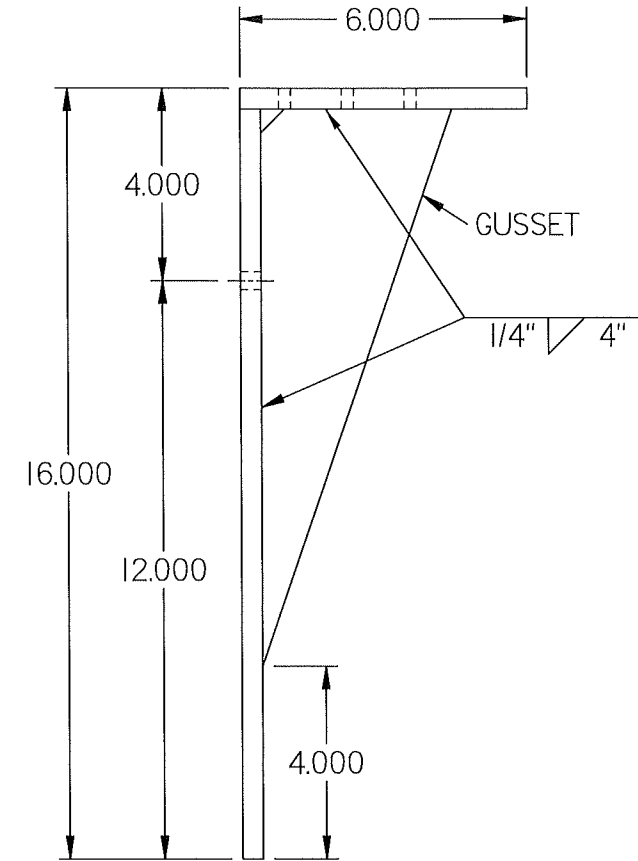
MULLION MOUNTING BRACKET  
FOR MULLION ANGLE BACK OF WALL MOUNT  
ASTM A36

USE 16" X 6" X 1/2" STEEL PLATE ANGLE  
AT 30" LONG AS SHOWN ( A36 OR BETTER )  
WELD 1/2" STEEL PLATE ANGLE TOGETHER WITH FULL  
PENETRATION BEVEL GROOVE WELD.  
(2) 1/4" X 4" GUSSET PLATES AT 12" LONG WELDED TO  
EACH END  
WELD 1/4" GUSSET PLATES WITH FILLET WELDS.



USE (4) 1/2" DIA. HILTI KWIK HUZ-EZ SCREW ANCHORS  
4-1/4" EMBEDMENT  
8" SPACING AS SHOWN. LOCATE (1) FASTENER IN THE CENTER OF EACH  
MASONRY CELL. BRACKET CAN BE INSTALL 4" LEFT OR RIGHT OF MULLION  
CENTERLINE SO ANCHORS CAN BE INSTALLED AT CENTER OF MASONRY CELLS.  
4" MIN. EDGE DISTANCE  
4" MIN END DISTANCE  
ASSUME GROUT FILLED MASONRY FM'= 2000 PSI (DESIGNED BY OTHERS)  
SEAL FASTENERS WITH LIQUID PROSO CO FLASHING AT EXTERIOR CONDITIONS.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *R. Dennis*  
Miami-Dade Product Control



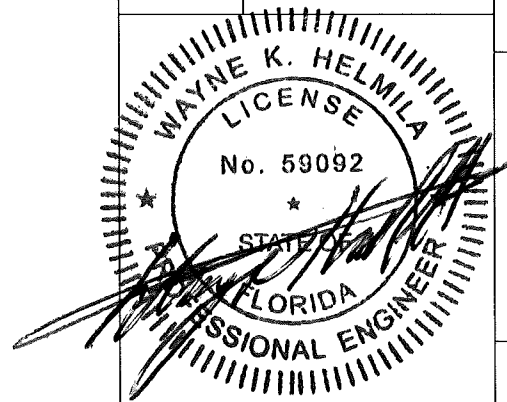
THESE MOUNTING BRACKETS ARE  
FOR DETAILS 10A-10/27,  
12B-12/27, 20A-18/27/,  
20B-18/27, AND 20C-18/27  
( GROUT FILLED CMU )

REVISIONS:  
REV B: ADDEDD 30" MULLION BRACKET

DWN BY: fcortinas	CHK BY: BDennis	SHEET: 23 OF 27	REV B
DATE: 4/30/2026	SCALE: NTS		
DWG. NO. 1606DHPM			

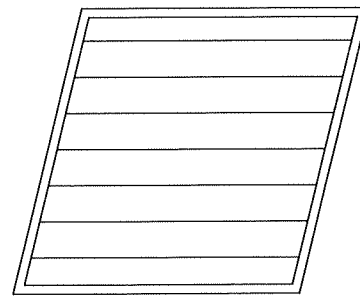
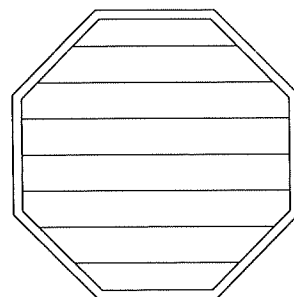
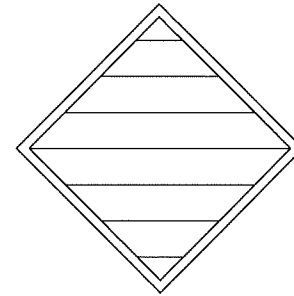
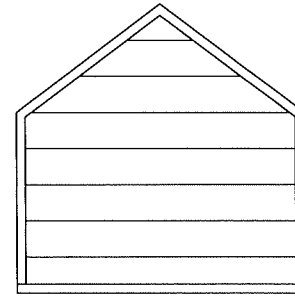
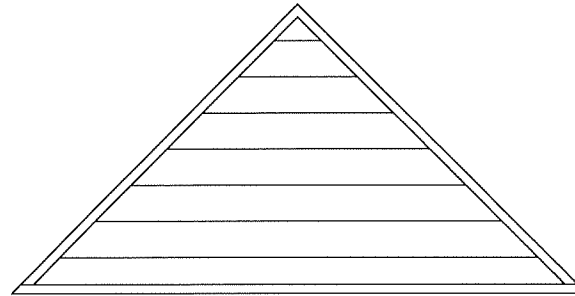
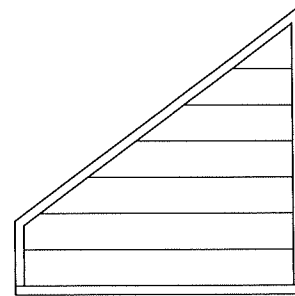
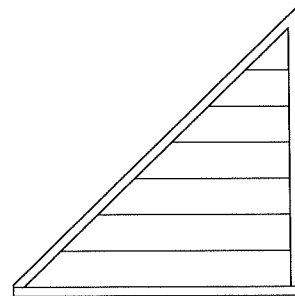
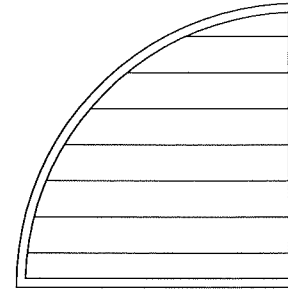
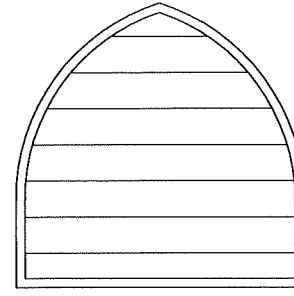
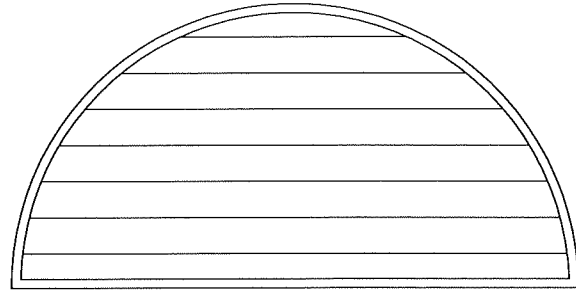
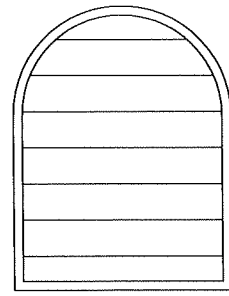
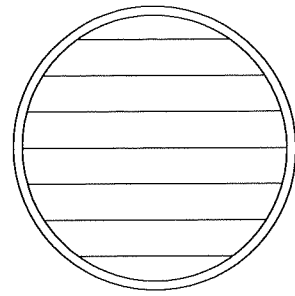
**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086


TITLE:  
30" CMU MULLION ANGLES  
BACK OF THE WALL MOUNT



JUN 10 2026

**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-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

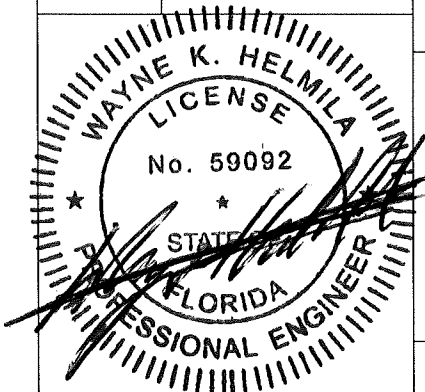


**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By   
 Miami-Dade Product Control

- NOTES:
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN AND HAVE CORNER CONSTRUCTION AS DESCRIBED ON ALL SHEETS.
  2. ALL SHAPED LOUVER PANELS ARE RESTRICTED TO THE SAME PANEL WIDTH AND PRESSURE AS THE RECTANGULAR LOUVER PANELS AND BE STACKED VERTICALLY AND HORIZONTALLY THE SAME AS THE RECTANGULAR PANELS.
  3. WHEN SECTION EXCEED 36" IN LENGTH BLADE SUPPORT ANGLES AND BRACKETS ARE REQUIRED.
  4. USE CONTIUOUS ANGLES TO ANCHOR OTHER LOUVER SHAPES TO BUILDING SUBSTRATE. SEE ANCHOR SCHEDULE FOR SUBSTRATE-SPECIFIC LIMITATIONS.

DWN BY: fcortinas    CHK BY: BDennis  
 DATE: 4/30/2026    SCALE: NTS  
 SHEET: 24 OF 27  
 DWG. NO. 1606DHPM    REV B

 **Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086  
 TITLE: 1606DHPM LOUVER  
 W/ AND W/O DAMPER  
 AVAILABLE SHAPES



JUN 10 2026

**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-0100005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	NOTES
1	C6-139 LOUVER HEAD	6063-T6 ALUMINIUM	
2	C6-140 LOUVER SILL	6063-T6 ALUMINIUM	
3	C6-141 LOUVER JAMB	6063-T6 ALUMINIUM	
4	C6-142 LOUVER BLADE	6063-T6 ALUMINIUM	
5	C6-168 LOUVER DRAIN	6063-T6 ALUMINIUM	
6	C6-143 LOUVER BLADE BRACE	6063-T6 ALUMINIUM	
7	C6-104 MULLION COVER	6063-T6 ALUMINIUM	
8	C6-096 LOUVER FLANGE	6063-T6 ALUMINIUM	
9A	C6-176 1 1/2 X 1 1/2 X 1/8 ANGLE CONT.	6063-T6 ALUMINIUM	USED AT HEAD/SILL/JAMB, OF LOUVER AND SLEEVE
9B	C6-160 2 X 2 X 1/8 ANGLE CONT.	6063-T6 ALUMINIUM	USE AS ATTACHMENT ANGLE
9C	1 1/2 X 1 1/2 X 3/16 ANGLE CONT.	6063-T6 ALUMINIUM	USE AS ATTACHMENT ANGLE
10A	C6-161B 6 X 3 X 1/4 ANGLE	6061-T6 ALUMINIUM	USED AT BLADE SUPPORT AND JAMB SUPPORT
10B	9 X 3 X 1/4 ANGLE	6061-T6 ALUMINIUM	FORMED ALUM ANGLE
10C	11 X 3 X 1/4 ANGLE	6061-T6 ALUMINIUM	FORMED ALUM ANGLE
11	1 1/2 X 1 1/2 X 1/4 ANGLE	6063-T6 ALUMINIUM	USED AT HEAD/SILL/JAMB OF SLEEVE
12A	4 X 2.50 X 1/4 X 3 5/8 LONG ANGLE	6063-T6 ALUMINIUM	USED AT HEAD/ SILL OF MULLION ATTACHMENT
12B	8 X 3 X 3-5/8 LONG ANGLE	6063-T6 ALUMINIUM	USED AT HEAD/ SILL OF MULLION ATTACHMENT W/ 1/2" LAG
13	4 X 2.50 X 1/4 3 5/8 LONG ANGLE	6061-T6 ALUMINIUM	USED AT HEAD/ SILL OF LOUVER SLEEVE ATTACHMENT
14	6 X 4 X 1/4 ALUMINIUM SUPPORT SHIM	6063-T6 ALUMINIUM	USED AT SILL FOR SUPPORT ANGLE
15	MULLION STIFFENER ALUM	6063-T6 ALUMINIUM	1/8 FORMED ALUM CHANNEL USED AT MULLION
16	FORMED SLEEVE 1/8 THK	5052-H32 ALUMINIUM	1/8 FORMED SLEEVE - DEPTH VARIES
17	B2-610 DAMPER HEAD/SILL	6063-T6 ALUMINIUM	
18	B2-609 DAMPER JAMB	6063-T6 ALUMINIUM	
19	B2-527 DAMPER BLADE	6063-T6 ALUMINIUM	
20	DAMPER BLADE SEAL	SILICONE / RUBBER TYPE	MATERIAL VARIES
21	DAMPER TOP/BOTTOM CLOSURE	ALUMINIUM	
22	DAMPER BUSHING	BRONZE / SS	
23	DAMPER LINKAGE BAR	SS	
24	DAMPER JAMB SEAL	SS	
25	NON DRIVE DAMPER AXEL ASM	SS	
26	DRIVE SIDE DAMPER AXEL ASM	SS	
27	C6 X 8.2 STEEL CHANNEL	ASTM A36	USED AT BLADE BLACE & MULLION
29	7" X 21" ALUMINIUM SLEEVE BRACKET	6061-T6	MULLION SLEEVE BRACKET
30	MULLION MOUNTING ANGLE BRACKET	ASTM A36	MULLION MOUNTING
31	C6-180	SCREW,MTL,10-24X1,HEX	
32	C6-181	1/4 NYLON INSERT LOCKNUT	
33	C6-182	1/4-20x2-1/2 HEX CAP SCREW	
34	C6-183	WASHER,BONDED,10X1/2,SS	300 SERIES, SS COND. CW FY = 65 KSI
35	C6-184	SCREW,MTL,12-24-1-1/4,HEX	300 SERIES, SS COND. CW FY = 65 KSI
36	C6-185	1/4-20x1 HEX SCREW	300 SERIES, SS COND. CW FY = 65 KSI
37	C6-186	1/4 COMM'L FLAT WASHER	300 SERIES, SS COND. CW FY = 65 KSI
38	C6-187	1/4-20x1 HEX CAP SCREW 18-8 SS	
39	C6-188	SCREW, MTL,HEX, 8-32 X 1,	300 SERIES, SS COND. CW FY = 65 KSI
40	C6-189	SCREW, METAL, HW, 10-24 X 1-1/2,	300 SERIES, SS COND. CW FY = 65 KSI
41	C6-192	SCREW, MTL, HEX, 8 X 1-1/2,	300 SERIES, SS COND. CW FY = 65 KSI
42	C6-193	SCREW, METAL, HEX, 1/4-20 X 1-1/2	300 SERIES, SS COND. CW FY = 65 KSI
43	C6-194	SCREW, METAL, HEX, 12 X 1-1/2, SS	300 SERIES, SS COND. CW FY = 65 KSI
44	C6-195	1/4-20 X 1 1/4 HEX CAP SCREW 18-8 S/S	
45	C6-196	1/4-20 FIN. HEX NUT 18-8 S/S	
46	C6-197	1/4 LOCKWASHER 18-8 S/S	
47	C6-198	SCREW, MTL, HEX, 8 X 3/4,	300 SERIES, SS COND. CW FY = 65 KSI
48		3/8"-16 X 2 18-6 HEX HEAD BOL.T SS	300 SERIES, SS COND. CW FY = 65 KSI
49		3/8-16 HEX LOCK NUT SS	300 SERIES, SS COND. CW FY = 65 KSI
50		3/8-FLAT WASHER SS	300 SERIES, SS COND. CW FY = 65 KSI

DWN BY: fcortinas CHK BY: BDennis

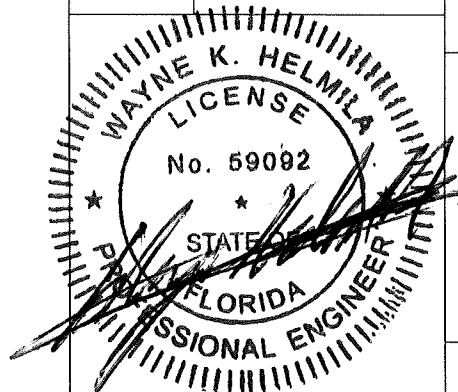
DATE: 4/30/2026 SCALE: NTS

SHEET: 25 OF 27

DWG. NO. 1606DHPM REV B

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE: 1606DHPM LOUVER W/ AND W/O DAMPER SLEEVE / CONTINUOUS MOUNT BILL OF MATERIAL



JUN 10 2026

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control

REVISIONS:  
REV B: UPDATED BILL OF MATERIAL

**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-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

\*EMBEDMENT DEPTH IS EQUAL TO OVERALL LENGTH FOR CONCRETE /CMU FASTENERS. IF SHIMS ARE USED, FASTENER LENGTH MUST BE INCREASED BY THICKNESS OF SHIMS

LOUVER MODEL 1606DHPM FASTENER TABLES  
JAMB ANGLE MOUNT FASTENER, WIDTH <= 72 INCHES (TABLE 1)

WOOD	STEEL STUD	STEEL	CONCRETE	CMU	MIN.	FASTENER TYPE	DIAMETER	# Rqd	CENTERS	EDGE	END	EMBEDMENT
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	1	3"	2"		2"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	1	5"	2"		2"
	X				16 Ga.	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	1	4-1/2"	2"		3 THREAD BEYOND SUBSTRATE
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	1	13-1/2"	2"		1/4"
			X		A-36	ELCO DRILL-FLEX DRILLING SCREWS (COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	1	20"	2"		1/4"
			X-CRACKED 6" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 ANCHOR	1/4"	1	7"	4"		2"
			X-CRACKED 6" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 ANCHOR	3/8"	1	12"	4"		2"
				X	2ksi	HILTI KWIK HUS-EZ SS316 ANCHOR	3/8"	1	12"	4"		3-1/4"
				X	2ksi	DEWALT GALVANIZED SCREW-BOLT+ ANCHOR	3/8"	1	4-1/2"	1-1/2"	1-1/2"	3-1/4"

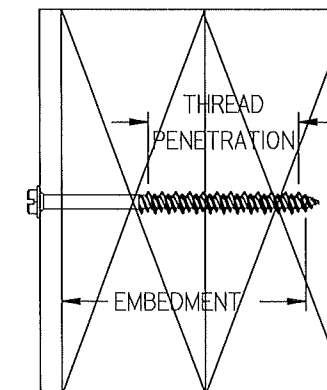
MULLION ANGLE MOUNT FASTENERS, HEIGHT <= 120 INCHES (TABLE 2)

WOOD	STEEL STUD	STEEL	CONCRETE	CMU	MIN.	FASTENER TYPE	DIAMETER	# Rqd / CLIP	CENTERS	EDGE	END	EMBEDMENT
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	10	1-1/4 X 7/8	2"		2-5/8"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	6	2-1/8 X 3	2"		1-5/8"
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	4	2-1/2" X 2-5/8"	2"		1/4"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	4	2-1/2" X 2-5/8"	2"		1/4"

MULLION ANGLE MOUNT BACK OF WALL FASTENERS, HEIGHT <= 120 INCHES (TABLE 3)

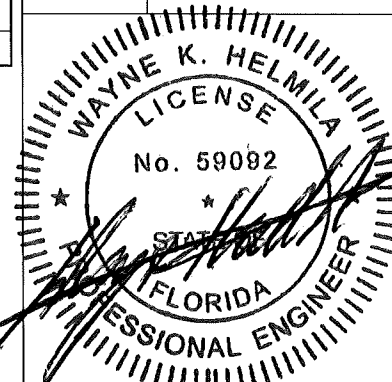
WOOD	STEEL STUD	STEEL	CONCRETE	CMU	MIN.	FASTENER TYPE	DIAMETER	# Rqd	CENTERS	EDGE	END	EMBEDMENT
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	8	VARIABLES	1"		3-11/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	10	VARIABLES	1"		3-11/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	6	VARIABLES	1-1/2"		3-9/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	8	VARIABLES	1-1/2"		3-9/32"
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	8	VARIABLES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	10	VARIABLES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	6	VARIABLES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	8	VARIABLES	1"		FULL THREAD ENGAGEMENT
			X-CRACKED 8" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 **	1/2"	6	6-1/2 X 3	3"	4"	3"
			X-CRACKED 8" DEEP		4ksi	HILTI KWIK BOLT EZ SS 300 SERIES **	1/2"	8	5 X 3	3"	4"	4-1/4"
				X	2ksi	HILTI KWIK HUS-EZ SCREW ANCHORS - SEAL w/ LIQUID PROSOCO @ EXTERIOR CONDITIONS	1/2"	4	8"	4"	4"	4-1/4"

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 26-0518.07  
Expiration Date 08/30/2028  
By *[Signature]*  
Miami-Dade Product Control



REVISIONS:  
REV B: UPDATED FASTENER TABLES

**Nailor Industries of Texas, Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



JUN 10 2026

**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-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

DWN BY: fcortinas CHK BY: BDennis  
DATE: 4/30/2026 SCALE: NTS

SHEET: 26 OF 27  
DWG. NO. 1606DHPM  
REV B

TITLE:  
1606DHPM LOUVER  
W/ AND W/O DAMPER  
FASTENER TABLES

**GENERAL NOTES:**

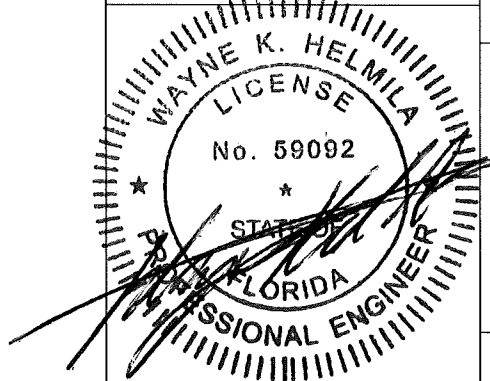
1. IT SHALL BE THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVER(S).
2. THE 1606DHPM WITH /WITHOUT DAMPER HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS TAS 1001A) WIND DRIVEN RAIN, TAS-201 (IMPACT), TAS-202 (UNIFORM STATIC PRESSURE) , AND TAS-203 (CYCLIC FATIGUE).
3. MAXIMUM SINGLE SECTION SIZE IS 72" WIDE X 120" HIGH.
4. MAXIMUM ASSEMBLED LOUVER SIZE IS UNLIMITED WIDE X 120" HIGH.
5. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
6. CMU SHALL BE ASTM C90, TYPE II, 2,000 MIN PSI GROUT-FILLED, STEEL STUDS TO BE 16 GA. FY=50ksi MIN.
7. THE SLEEVE MOUNT STYLE LOUVER UTILIZES AN ANCHORLESS INSTALLATION METHOD THAT DOES NOT REQUIRE THE USE OF FASTENERS INTO THE SUBSTRATE. IT MAY BE INSTALLED IN ANY SUBSTRATE THAT WILL WITHSTAND THE LOADS TRANSFERRED TO IT BY THE LOUVER. NAILOR INDUSTRIES OF TEXAS DOES NOT DETERMINE THE STRUCTURAL INTERGRITY OF THE SUBSTRATE STRUCTURE.
8. THE CONTINUOUS ANGLE MOUNT STYLE UTILIZES A CONTINUOUS JAMB ANGLE THAT IS ATTACHED TO THE SUBSTRATE BY FASTENERS. IT MAY BE INSTALLED IN CONCRETE, CMU, STEEL, OR WOOD ACCORDING TO THE FASTENER SCHEDULE. NAILOR INDUSTRIES OF TEXAS DOES NOT DETERMINE THE STRUCTURAL INTERGRITY OF THE SUBSTRATE STRUCTURE.
9. LOUVER ASSEMBLY IS QUALIFIED FOR A MAXIMUM DESIGN LOAD OF +/- 150 PSF.
10. LOUVER ASSEMBLY WITH AND WITHOUT DAMPER SHALL ONLY BE INSTALLED IN A LOCATION 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, AND / OR SUPPLIES.
11. INSTALLER TO PROVIDE SEPERATION OF DISSIMILAR MATERIALS AS REQUIRED.
12. THE 2020 DAMPER MAY BE OPERATED BY A MANUAL QUADRANT OR BY AN ELECTRIC OR PNEUMATIC ACTUATOR, THE DAMPER'S ACTUATOR IS NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.
13. FRAME CONSTRUCTION, HEAD AND SILL ARE SQUARE CUT, JAMBS ARE SQUARE CUT @ HEAD AND SILL. CORNERS ARE SECURED WITH (2) #10-24 x 1 1/2 HW, BLADES ARE SECURED TO JAMBS WITH (4) #10-24 X 1 1/2 HW, @ EACH END.
14. STEEL / STAINLESS-STEEL/ ALUMINIUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THA HAS EQUAL OR GREATER YIELD STRENGTH.
15. BLADE SUPPORT ANGLE AND BLADE SUPPORT BRACE ONLY REQUIRED WHEN ACTUAL LOUVER SECTION WIDTH IS GREATER THAN 36 INCHES.
16. THREAD PENETRATION LENGTH SIGNIFIES THE REQUIRED LENGTH OF THE THREADED PORTION OF THE FASTENER INTO THE WOOD SUBSTRATE PROVIDING FULL CONTACT WITH WOOD. LAG SCREW TIP CANNOT BE CONSIDERED PART OF THE THREADED PORTION OF THE SCREW. LAG SCREWS ARE NOT TO BE INSTALLED AT WOOD JOINTS/SPLICES WHERE THE LAG SCREW COULD FALL BETWEEN MEMEBERS.

\*\* NOTE ENGINEER OF RECORD ( EOR ) IS RESPONSIBLE FOR DETERMINING IF CONCRETE IS TO BE CONSIDERED CRACKED OR UNCRACKED.

CHK BY: BDennis	SCALE: NTS	SHEET: 27 OF 27	REV B
DWN BY: fcortinas	DATE: 4/30/2026		
DWG. NO. 1606DHPM			

**Nailor Industries of Texas, Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE: 1606DHPM LOUVER W/ AND W/O DAMPER GENERAL NOTES



JUN 10 2026

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 26-0518.07  
 Expiration Date 08/30/2028  
 By *[Signature]*  
 Miami-Dade Product Control

**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

REVISIONS:  
 REV B: ADDED GENERAL NOTES PAGE