



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

Nailor Industries 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 – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1606DHPM**, titled “1606DHPM Louver w/ and w/o Damper”, sheets 1 through 27 of 27, prepared by manufacturer, dated 11/29/2021, with revision B dated 08/14/2024, 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. 23-0724.23** 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.**



08/15/24

NOA No. 24-0516.04
Expiration Date: August 30, 2028
Approval Date: August 15, 2024
Page 1

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 6th 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. 24-0516.04
Expiration Date: August 30, 2028
Approval Date: August 15, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER NOA # 21-0630.10 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 11/29/2021, with revision B dated 08/14/2024, 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 08/14/2024, 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

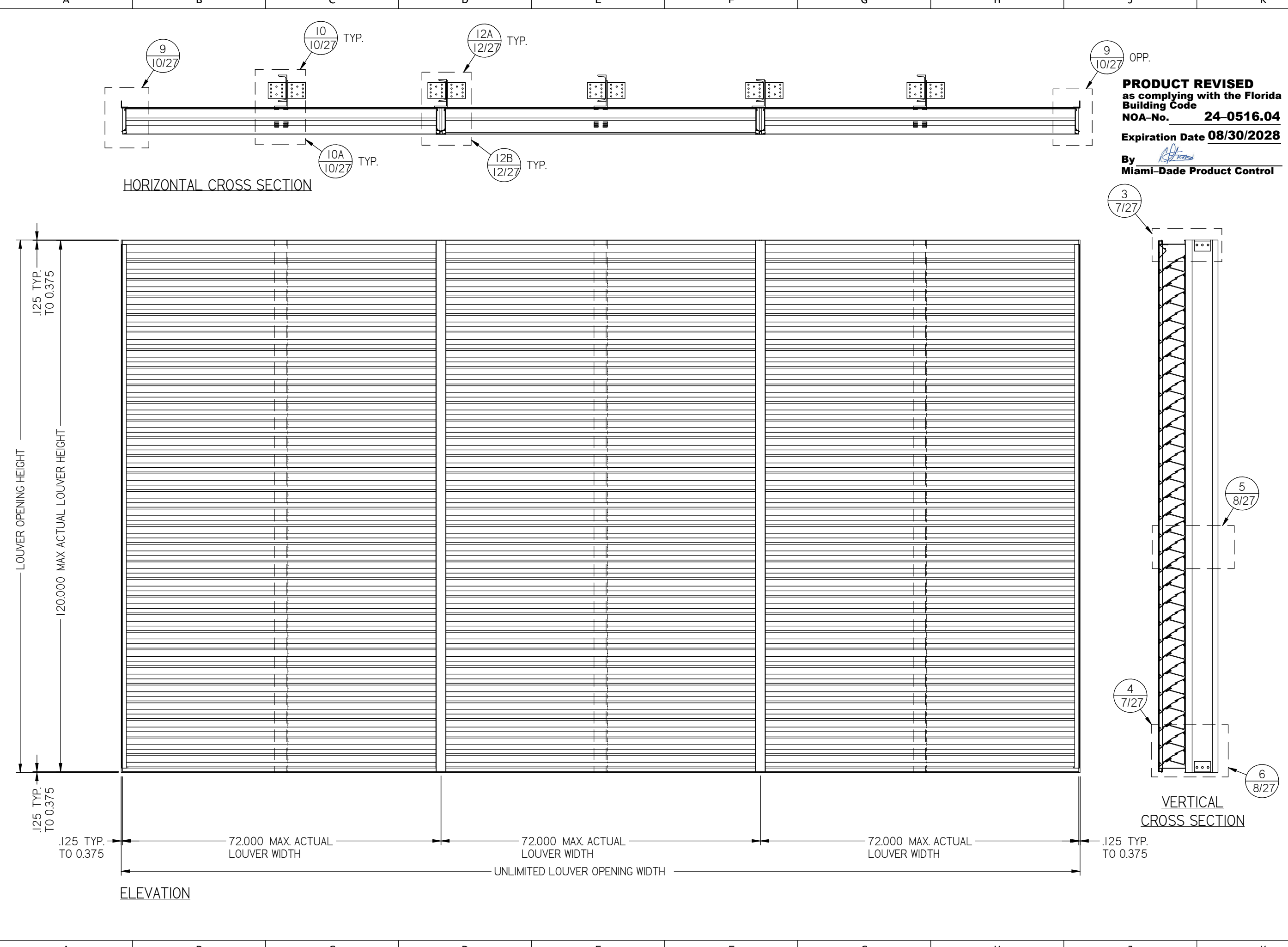
1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Rice Engineering, dated 07/22/2024, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 07/22/2024, signed and sealed by Wayne K. Helmila, P.E.
“Submitted under NOA # 21-0630.10”
3. Statement letter of code conformance to the **7th 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. 24-0516.04
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A	B	C	D	E	F	G	H	J	K	L
DRAWING INDEX:			NOTES:			TESTS PREFORMED:				
1	1. INDEX TO DRAWINGS AND NOTES.		1) THE I606DHPM 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.			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	
2	2. I606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT		2) THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 150 PSF OR LESS						SCALE: NTS	
3	3. I606DHPM LOUVER- CONTINUOUS ANGLE MOUNT		3) THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.						DATE: 11/29/2021	
4	4. I606DHPM / DAMPER- FLANGE FRAME SLEEVE MOUNT		4) LOUVER ANCHORS ARE REVIEWED FOR ATTACHMENT INTO STEEL, CONCRETE, MASONRY, OR TIMBER SUBSTRUCTURE. MINIMUM EDGE DISTANCE AND EMBEDMENT REQUIREMENTS ARE SHOWN. NAILOR IND. DOES NOT DETERMINE THE STURCTURE INTEGRITY OF THE SUBSTRUCTURE.						SHEET: 1 OF 27	
5	5. I606DHPM / DAMPER- CONTINUOUS ANGLE MOUNT		5) MAXIMMUM SINGLE SECTION SIZE : 72" WIDE X 120" HIGH.						DWG. NO. B	
6	6. I606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT HEAD & SILL DETAIL		6) MAXIMUM ASSEMBLED LOUVER SIZE UNLIMITED WIDE X 120" HIGH. MAX. MULLION SPACING IS 72".						REV	
7	7. I606DHPM LOUVER- BLADE SUPPORT DETAIL.		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.						I606DHPM	
8	8. I606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT JAMB AND SUPPORT DETAIL								Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086	
9	9. I606DHPM LOUVER- CONTINUOUS ANGLE MOUNT JAMB AND SUPPORT DETAIL.								TITLE: I606DHPM LOUVER W/ AND W/O DAMPER INDEX	
10	10. I606DHPM LOUVER- CONTINUOUS ANGLE MOUNT JAMB AND SUPPORT DETAIL.								WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER 07/23/2024 COA: 9090	
11	11. I606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT MULLION DETAIL.								PRODUCT REVISED as complying with the Florida Building Code NOA-No. 24-0516.04 Expiration Date 08/30/2028 By [Signature] Miami-Dade Product Control	
12	12. I606DHPM LOUVER- CONTINUOUS ANGLE MOUNT MULLION DETAIL.								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	
13	13. I606DHPM LOUVER / DAMPER FLANGE FRAME W/ SLEEVE & MULLION ANGLE MOUNT HEAD & SILL DETAIL.								REVISIONS: REV B: UPDATED DRAWING INDEX REV B : PG 20,21,22,23,2425,26,27	
14	14. I606DHPM / DAMPER- FLANGE FRAME SLEEVE MOUNT CMU SUBSTRATE HEAD & SILL DETAIL									
15	15. I606DHPM / DAMPER- FLANGE FRAME SLEEVE MOUNT JAMB AND MULLION DETAIL									
16	16. I606DHPM LOUVER / DAMPER FLANGE FRAME SLEEVE MOUNT 9 X 3 X 1/4 & 11 X 3 X 1/4 ANGLE MULLION DETAIL									
17	17. I606DHPM LOUVER / DAMPER CONTINUOUS ANGLE MOUNT JAMB AND MULLION DETAIL.									
18	18. I606DHPM LOUVER / DAMPER COUNTINUOUS ANGLE MOUNT 9 X 3 X 1/4 & 11 X 3 X 1/4 ANGLE MULLION DETAIL									
19	19. I606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT PART PROFILES.									
20	20. I606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT PART PROFILES CONT.									
21	21. 16" MULLION ANGLES BACK OF THE WALL MOUNT									
22	22. 20" MULLION ANGLES BACK OF THE WALL MOUNT.									
23	23. 30" CMU MULLION ANGLES BACK OF THE WALL MOUNT.									
24	24. I606DHPM LOUVER W/ AND W/O DAMPER AVAILBLE SHAPES									
25	25. I606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT BILL OF MATERIAL.									
26	26. I606DHPM LOUVER W/ AND W/O DAMPER FASTENER TABLES									
27	27. I606DHPM LOUVERW/ AND W/O DAMPER GENERAL NOTES.									





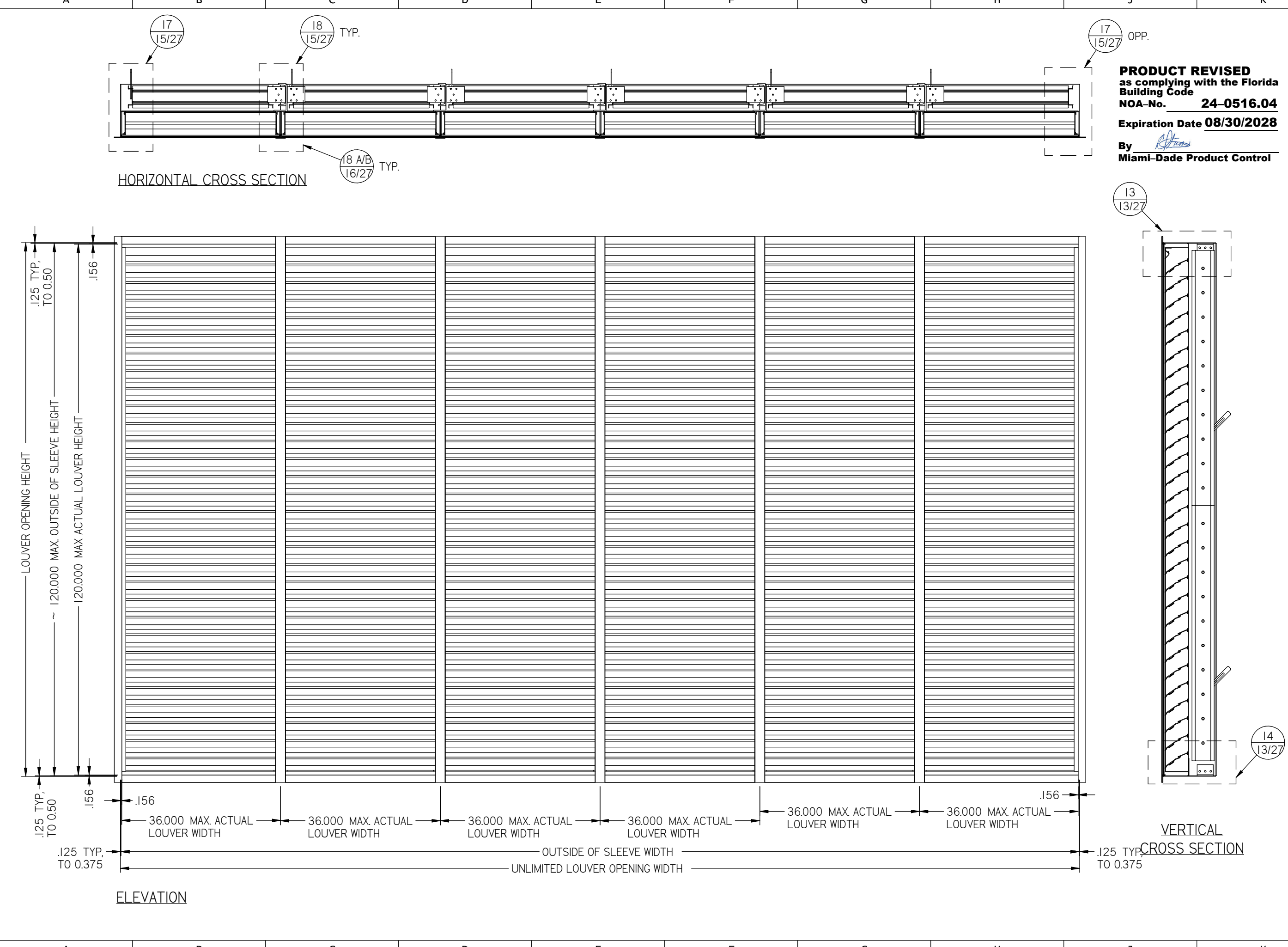
DWN BY: fcortinas		CHK BY: BDennis	
DATE: 11/29/2021		SCALE: NTS	
SHEET: 3 OF 27		REV B	
DWG. NO. 1606DHPM			

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

1606DHPM LOUVER
COUNTINOUS ANGLE MOUNT

WAYNE K. HELMILA
LICENSE
No. 59092
STATE OF FLORIDA
PROFESSIONAL ENGINEER
07/23/2024
COA: 9090

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
NOA-No. **24-0516.04**
Expiration Date **08/30/2028**
By *[Signature]*
Miami-Dade Product Control

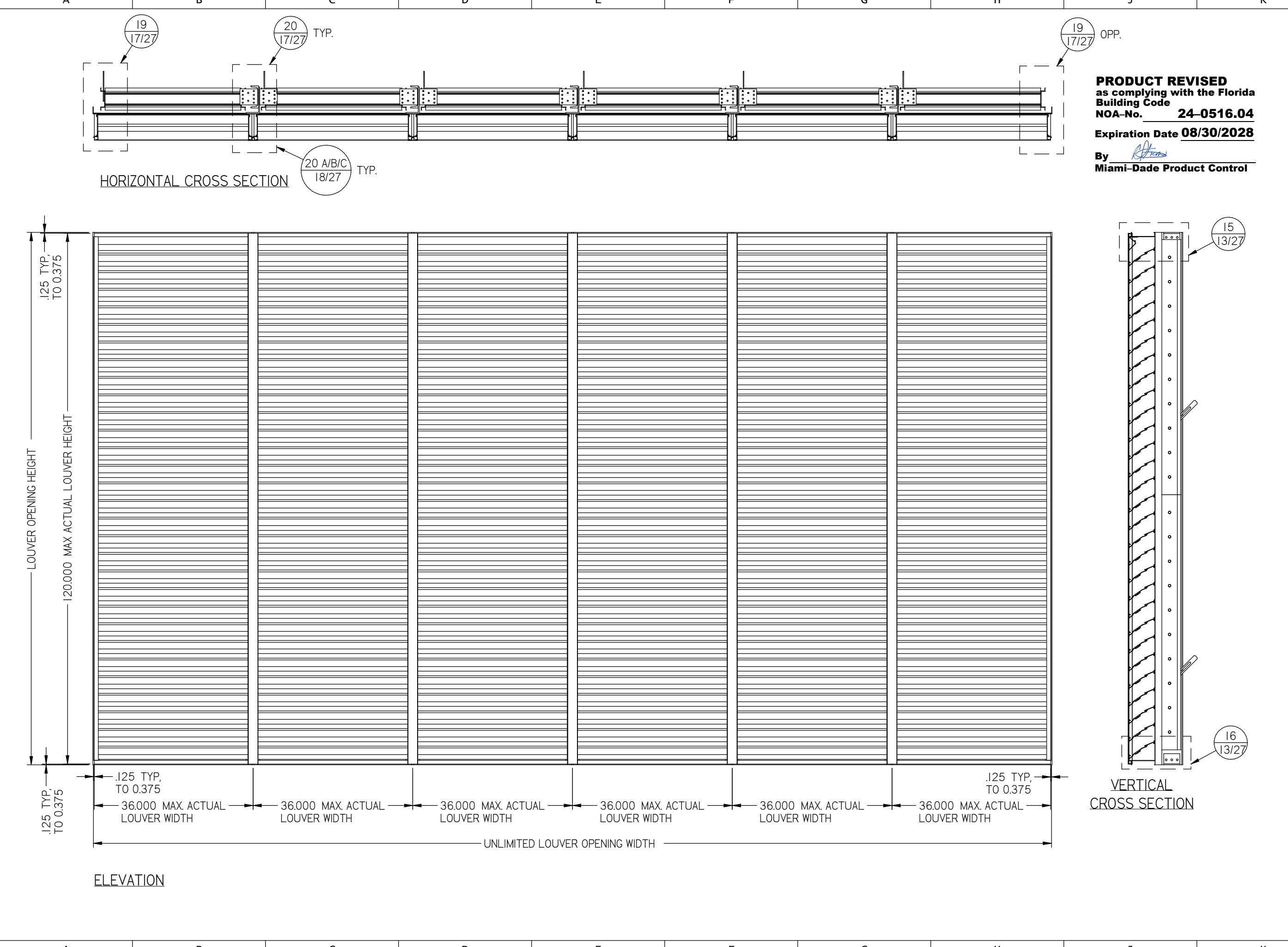
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DATE: 11/29/2021	SCALE: NTS	SHEET: 4 OF 27	
DWG. NO.		1606DHPM	

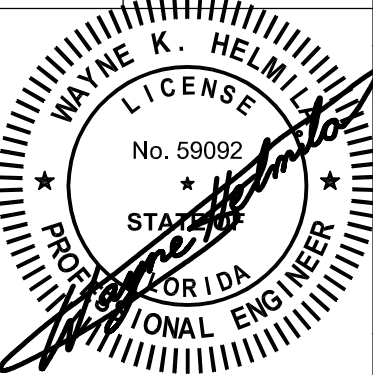
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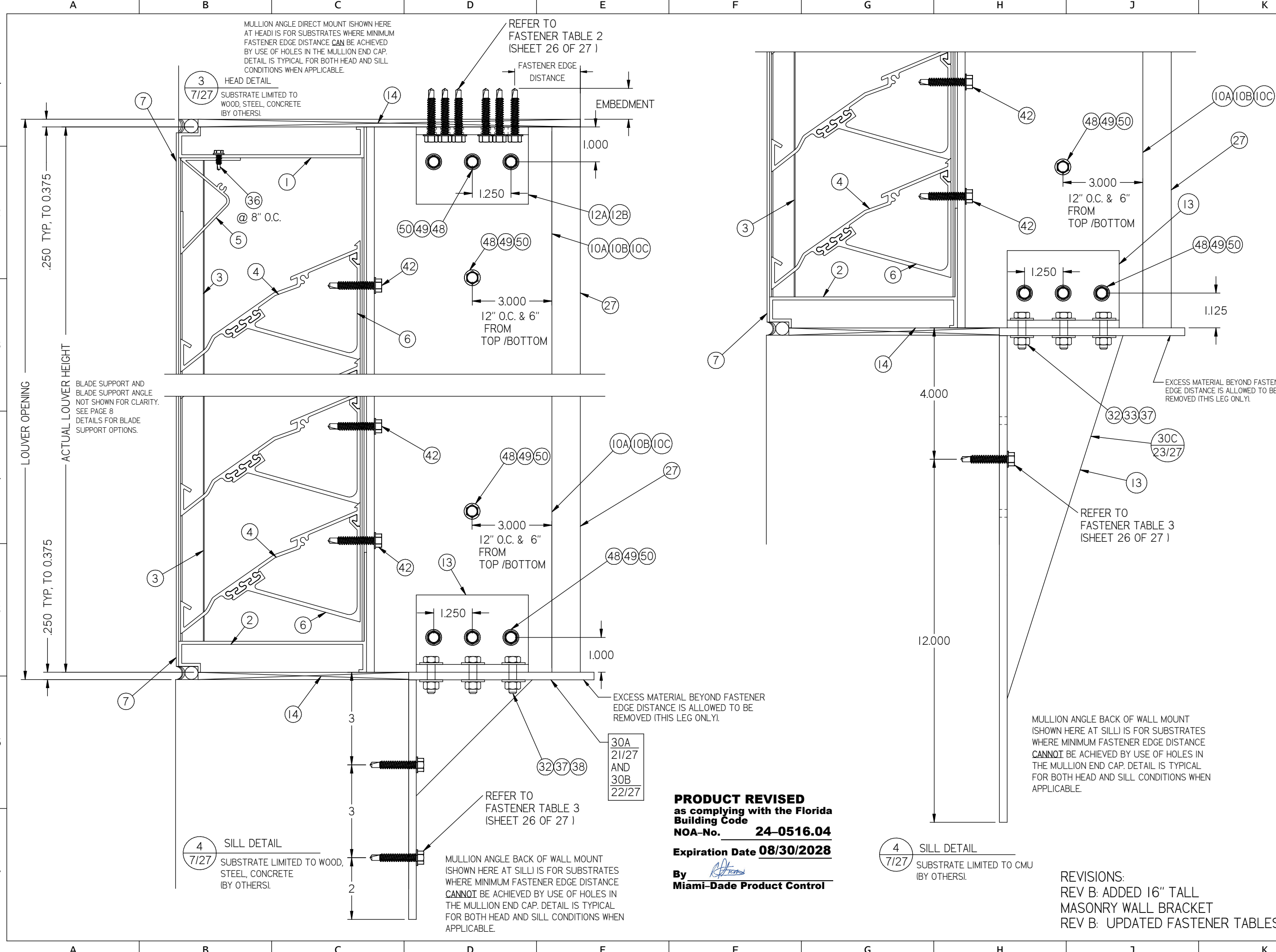
TITLE:
**1606DHPM / DAMPER
FLANGE FRAME
SLEEVE MOUNT**

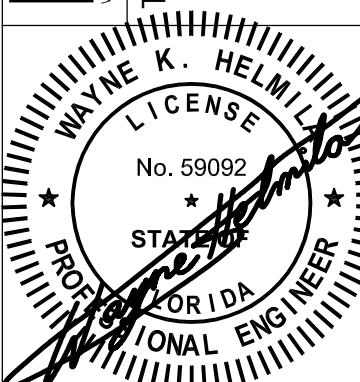
WAYNE K. HELMILA
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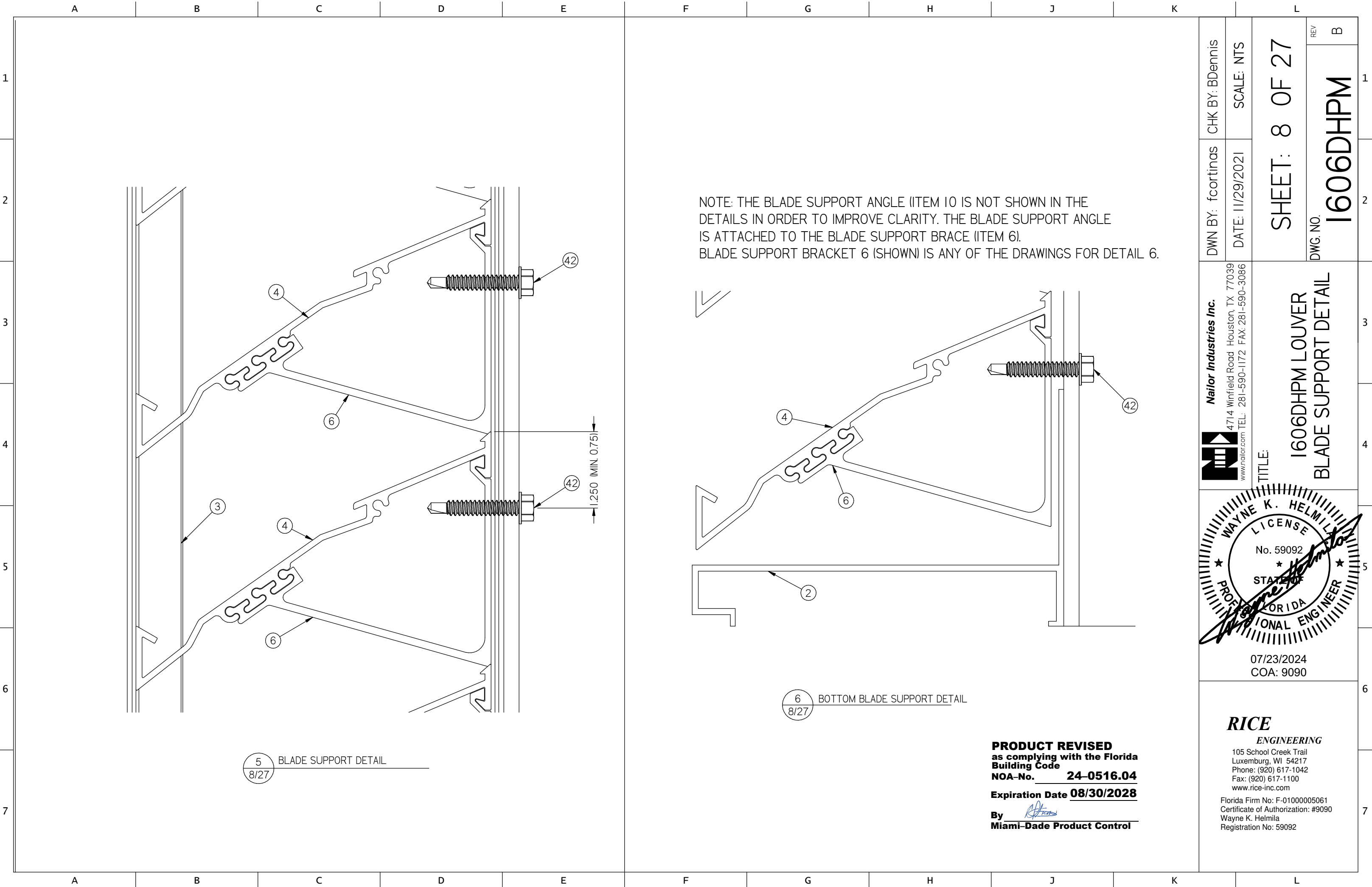
 Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086	DWN BY: fcortinas	CHK BY: BDennis
	DATE: 11/29/2021	SCALE: NTS
TITLE: 1606DHPM / DAMPER CONTINUOUS ANGLE MOUNT	SHEET: 5 OF 27	
	DWG. NO. 1606DHPM	
 07/23/2024 COA: 9090	REV B	
	RICE ENGINEERING 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: f cortinas		CHK BY: BDennis
DATE: 11/29/2021		SCALE: NTS
SHEET: 7 OF 27		
DWG. NO. I606DHPM		
TITLE: I606DHPM LOUVER MULLION ANGLE MOUNT HEAD & SILL DETAILS		
		
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		

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NOA-No. **24-0516.04**
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Miami-Dade Product Control

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



5 BLADE SUPPORT DETAIL
8/27

6 BOTTOM 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.

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DWN BY: fcortinas	CHK BY: BDennis
DATE: 11/29/2021	SCALE: NTS
SHEET: 8 OF 27	
DWG. NO.	REV. B
1606DHPM	

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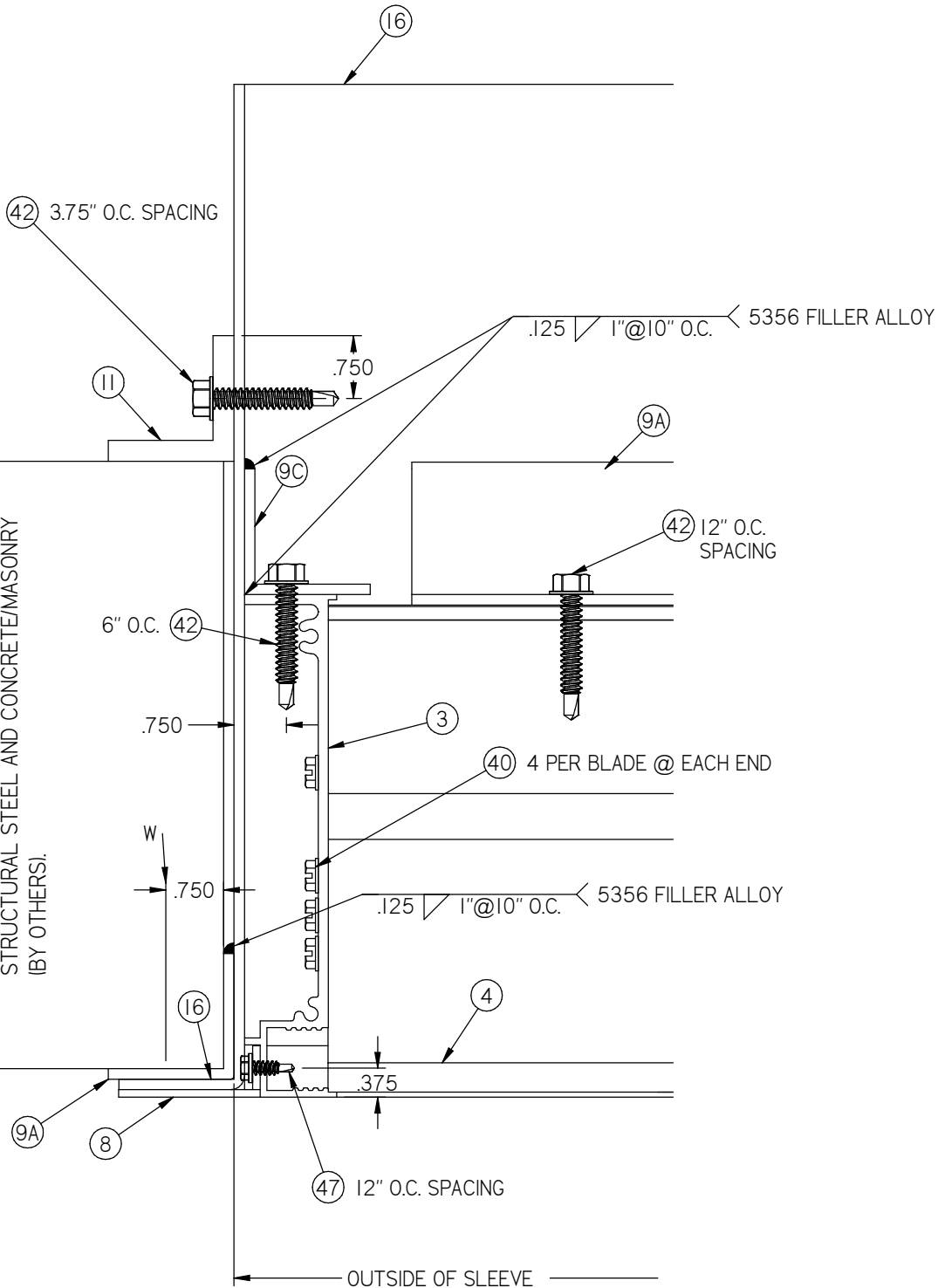
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1606DHPM LOUVER
BLADE SUPPORT DETAIL

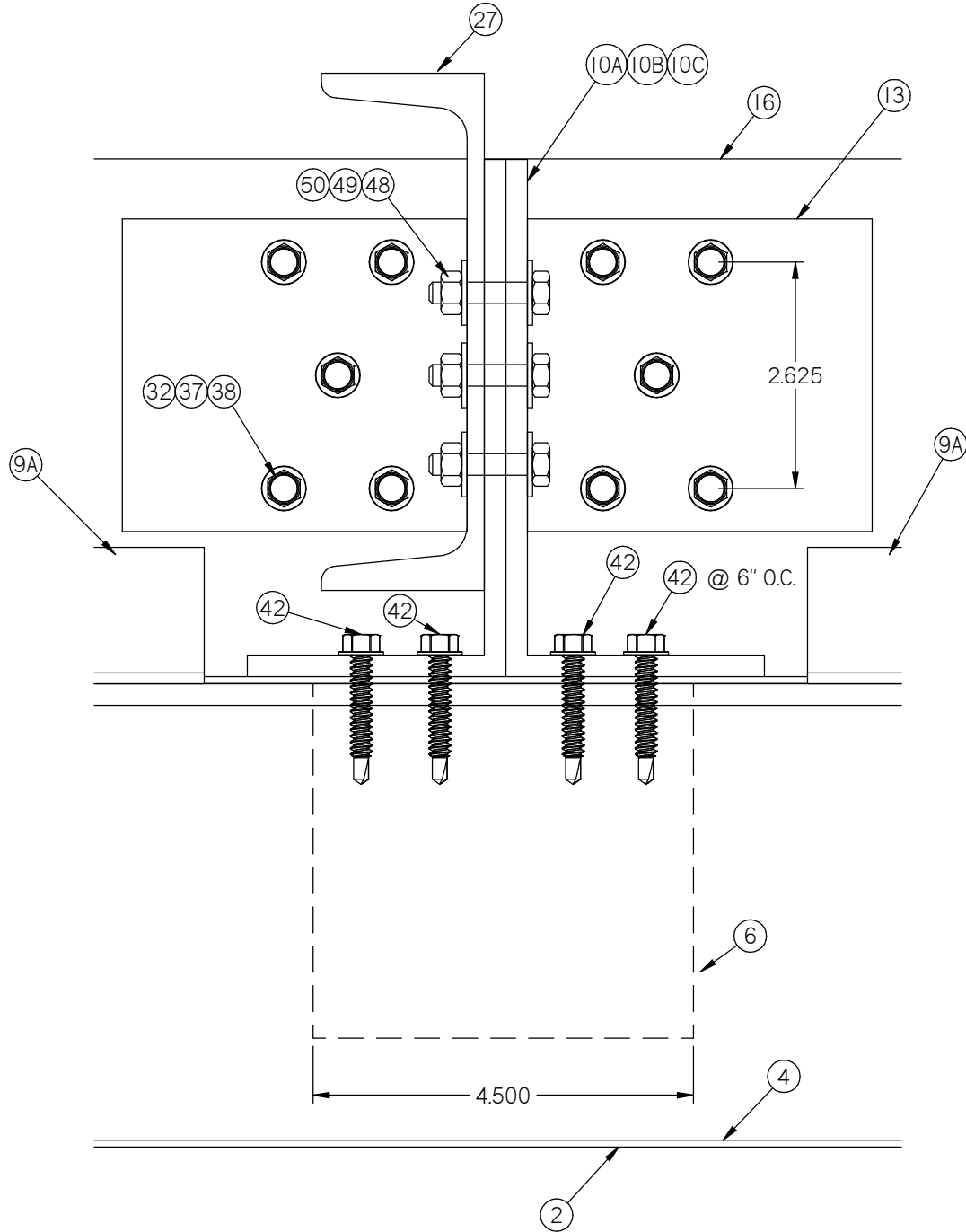
07/23/2024
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Wayne K. Helmila
Registration No: 59092

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

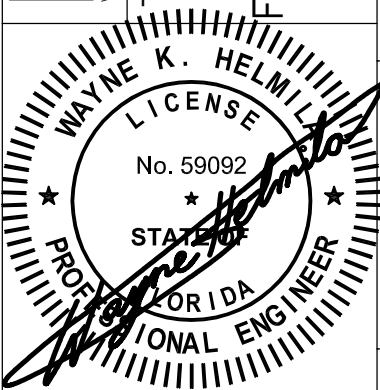


7 JAMB DETAIL
9/27



8 BLADE SUPPORT DETAIL
SLEEVE MOUNT
9/27

PRODUCT REVISED
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NOA-No. **24-0516.04**
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By *RH*
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Wayne K. Helmila
Registration No: 59092

CHK BY: BDennis

DWN BY: f cortinas

SCALE: NTS

DATE: 11/29/2021

SHEET: 9 OF 27

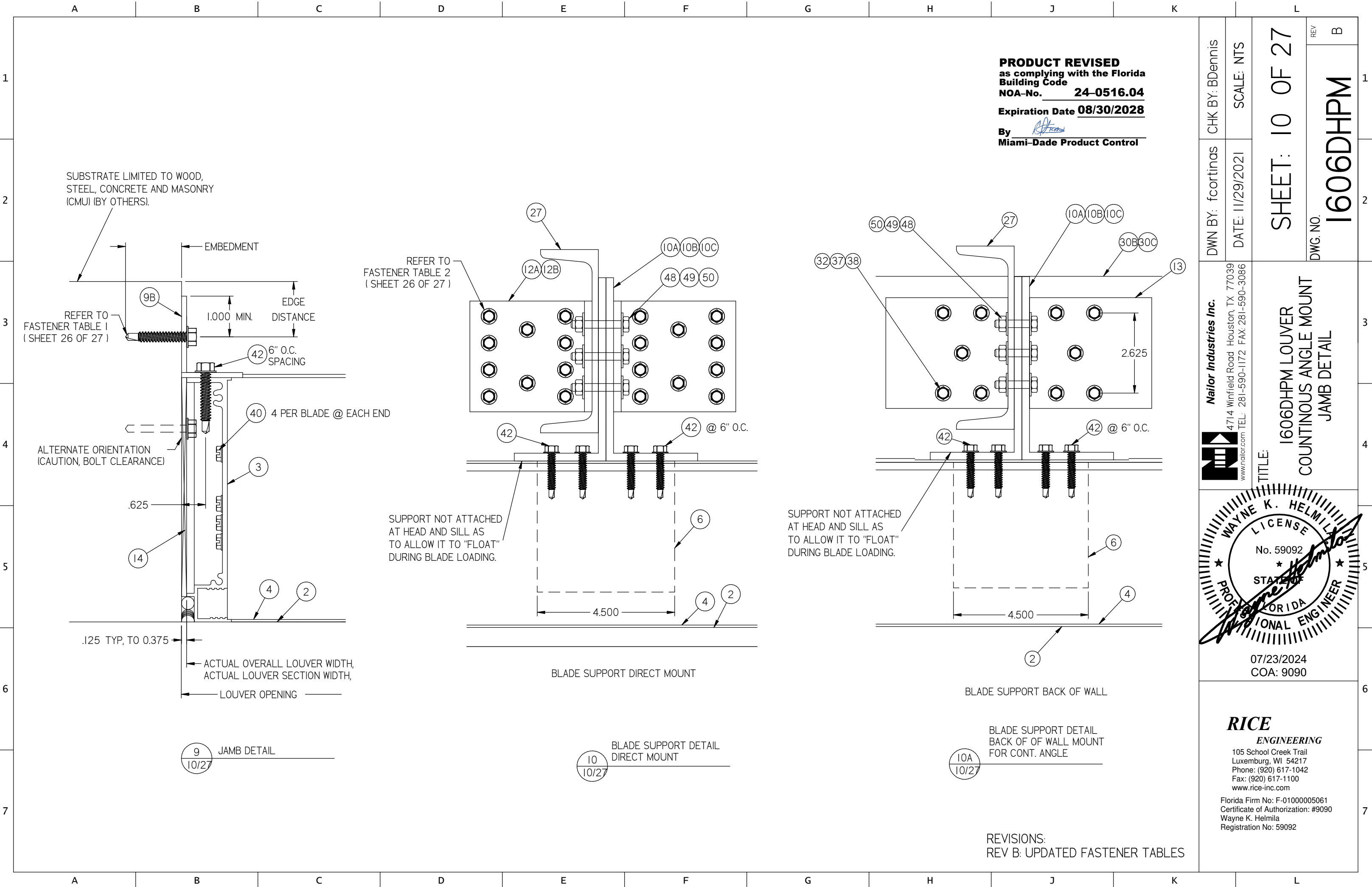
DWG. NO.

1606DHPM

1606DHPM LOUVER
FLANGE FRAME SLEEVE MOUNT
JAMB DETAILS

REV

B



CHK BY: BDennis

DWN BY: fcortinas

SCALE: NTS

DATE: 11/29/2021

SHEET: 10 OF 27

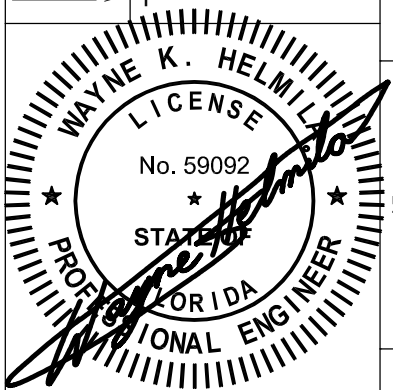
DWG. NO. 1606DHPM

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4714 Winfield Road Houston, TX 77039
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:
1606DHPM LOUVER
COUNTINOUS ANGLE MOUNT
JAMB DETAIL

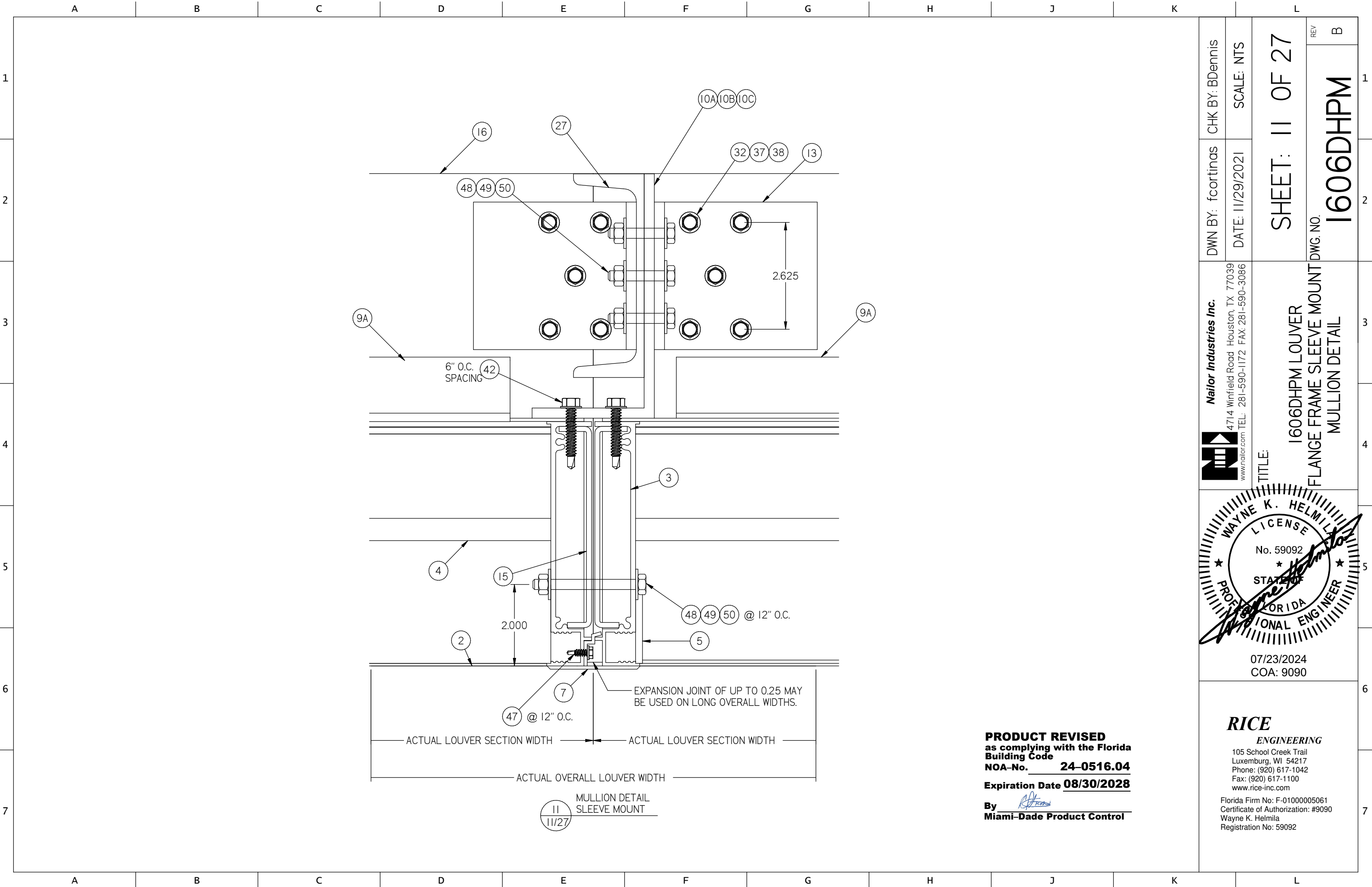


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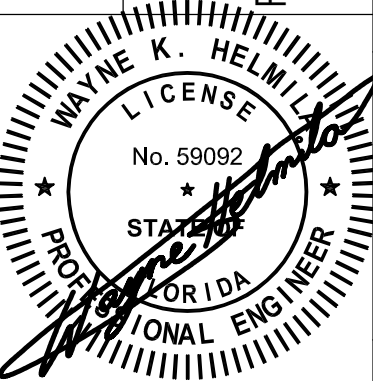
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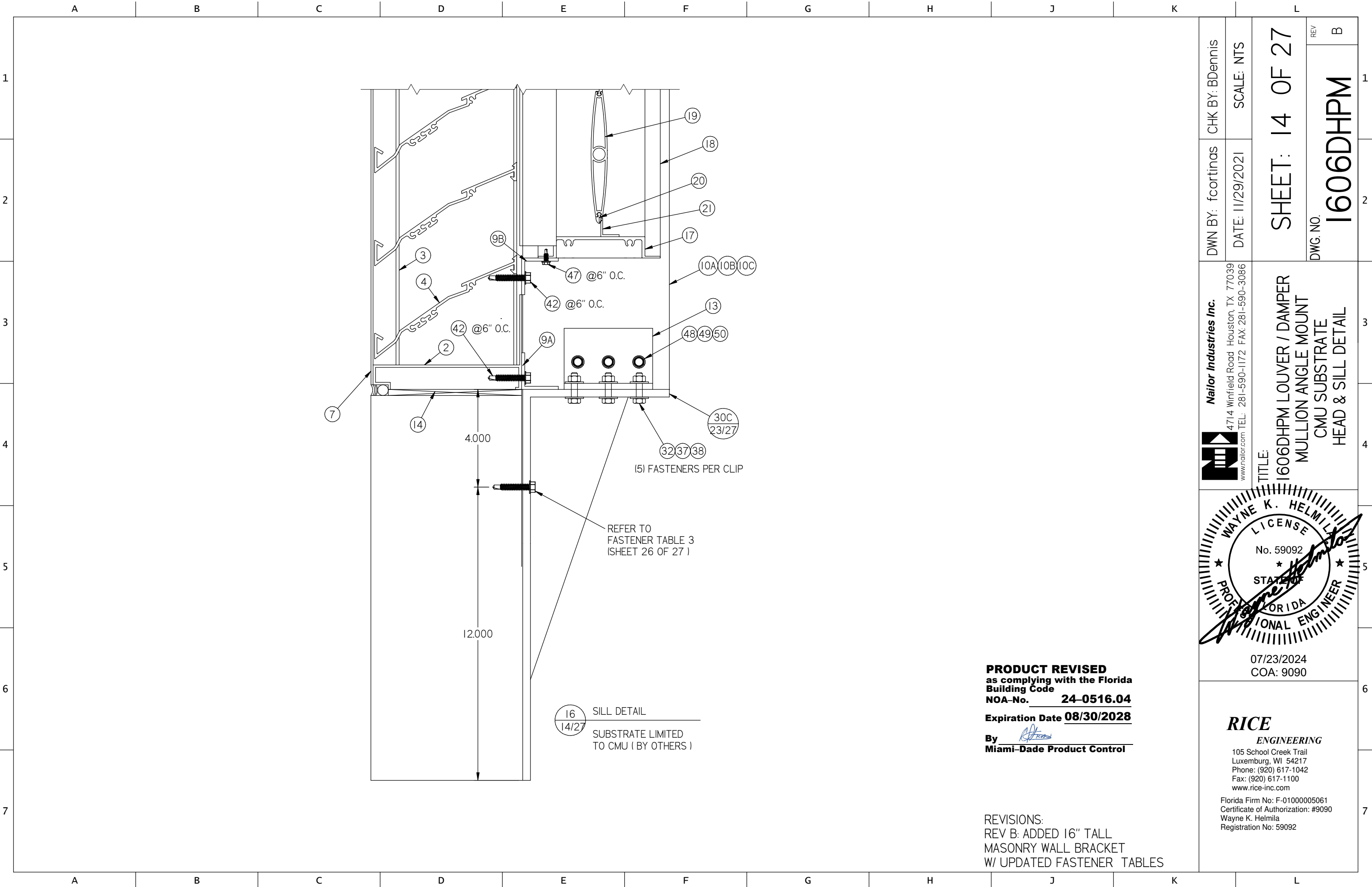
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 Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086	DWN BY: fcortinas	CHK BY: BDennis
	DATE: 11/29/2021	SCALE: NTS
SHEET: 11 OF 27		
TITLE: 1606DHPM LOUVER FLANGE FRAME SLEEVE MOUNT MULLION DETAIL		
DWG. NO. 1606DHPM		
REV B		



07/23/2024
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By *[Signature]*
Miami-Dade Product Control

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

DWN BY: fcortinas	CHK BY: BDennis
DATE: 11/29/2021	SCALE: NTS
SHEET: 14 OF 27	
DWG. NO.	REV B
1606DHPM	

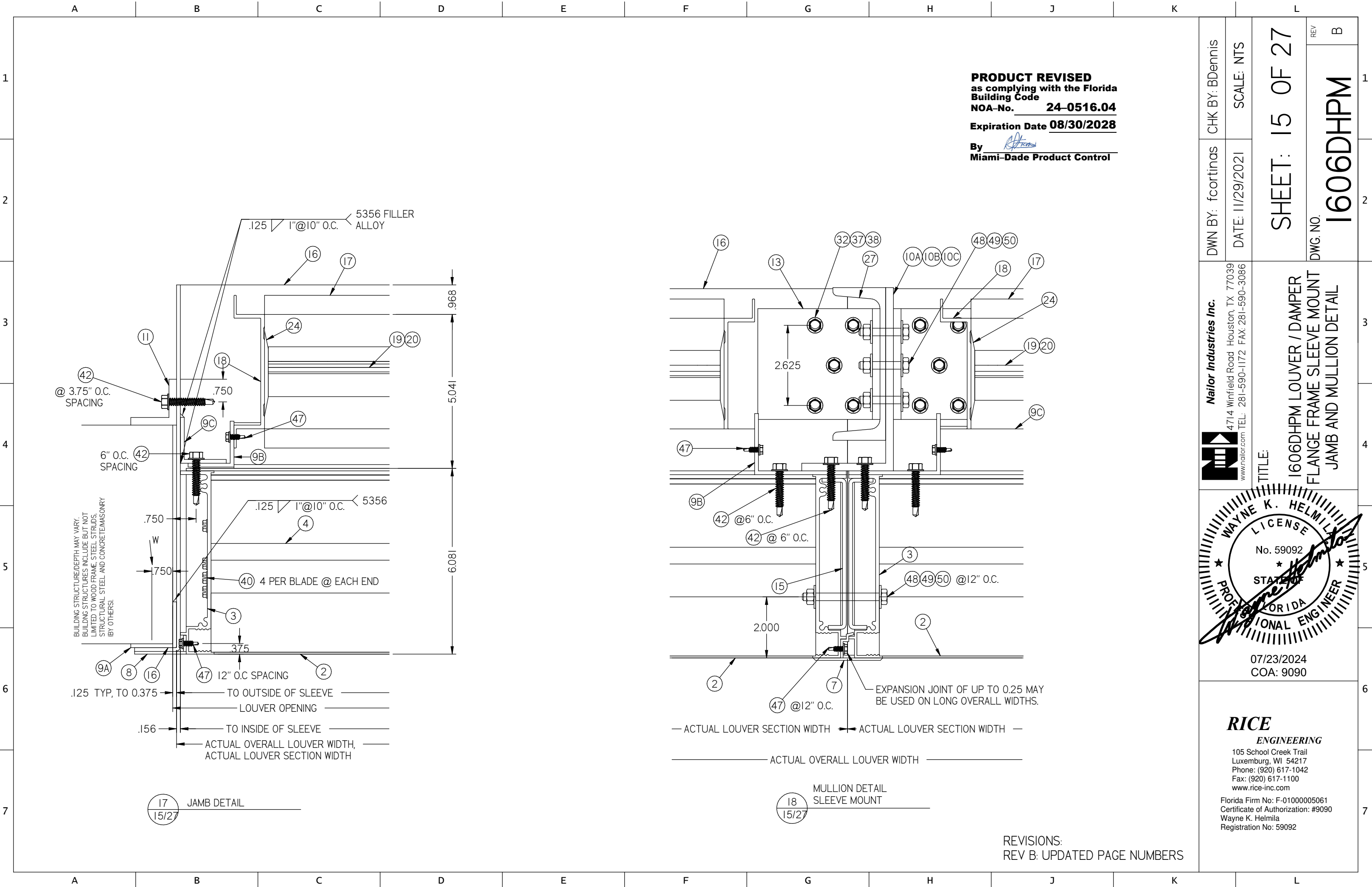
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TITLE:
1606DHPM LOUVER / DAMPER
MULLION ANGLE MOUNT
CMU SUBSTRATE
HEAD & SILL DETAIL

WAYNE K. HELMILA
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No. 59092
STATE OF
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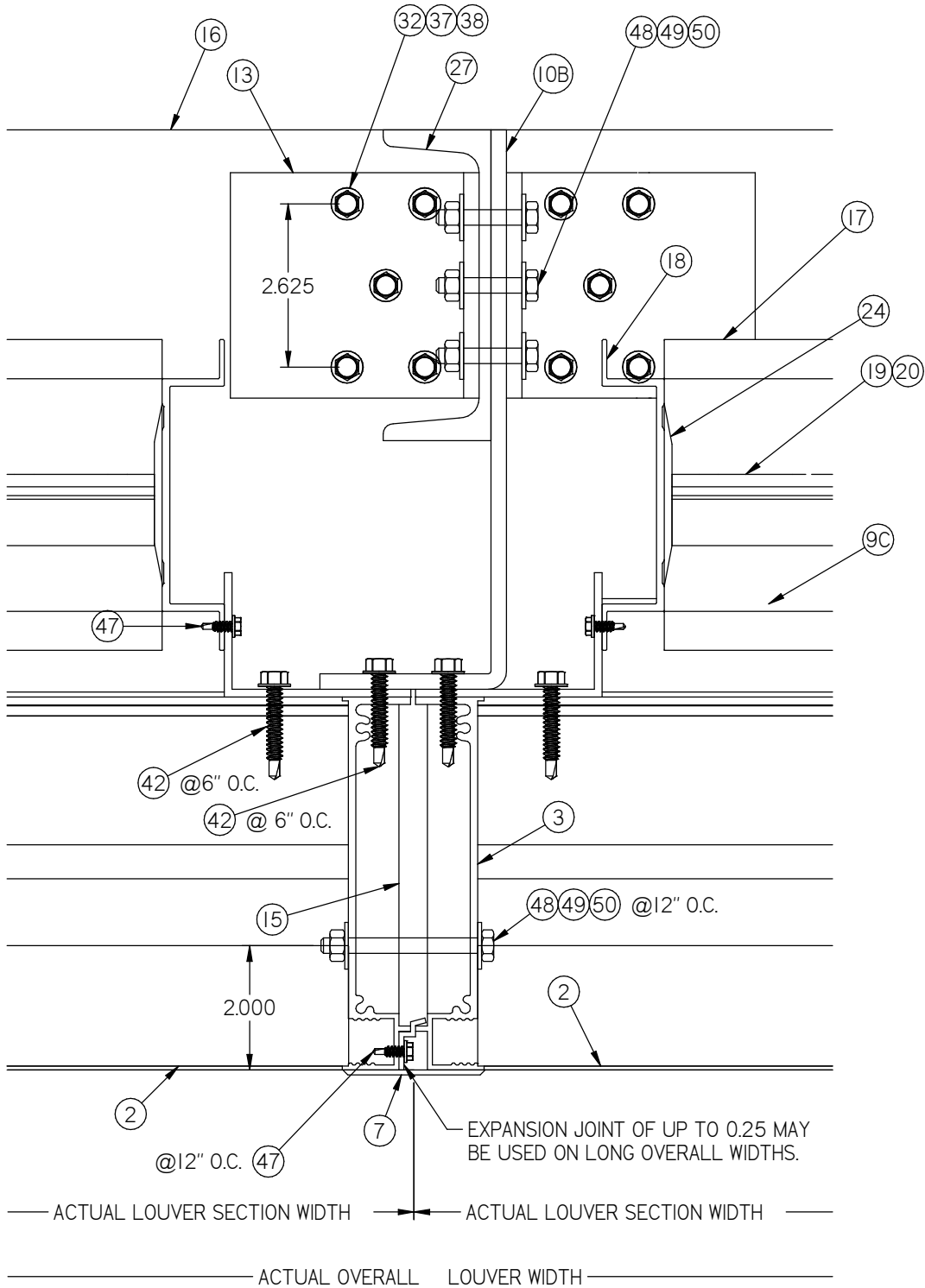
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www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

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

WAYNE K. HELMILA
LICENSE
No. 59092
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
07/23/2024
COA: 9090

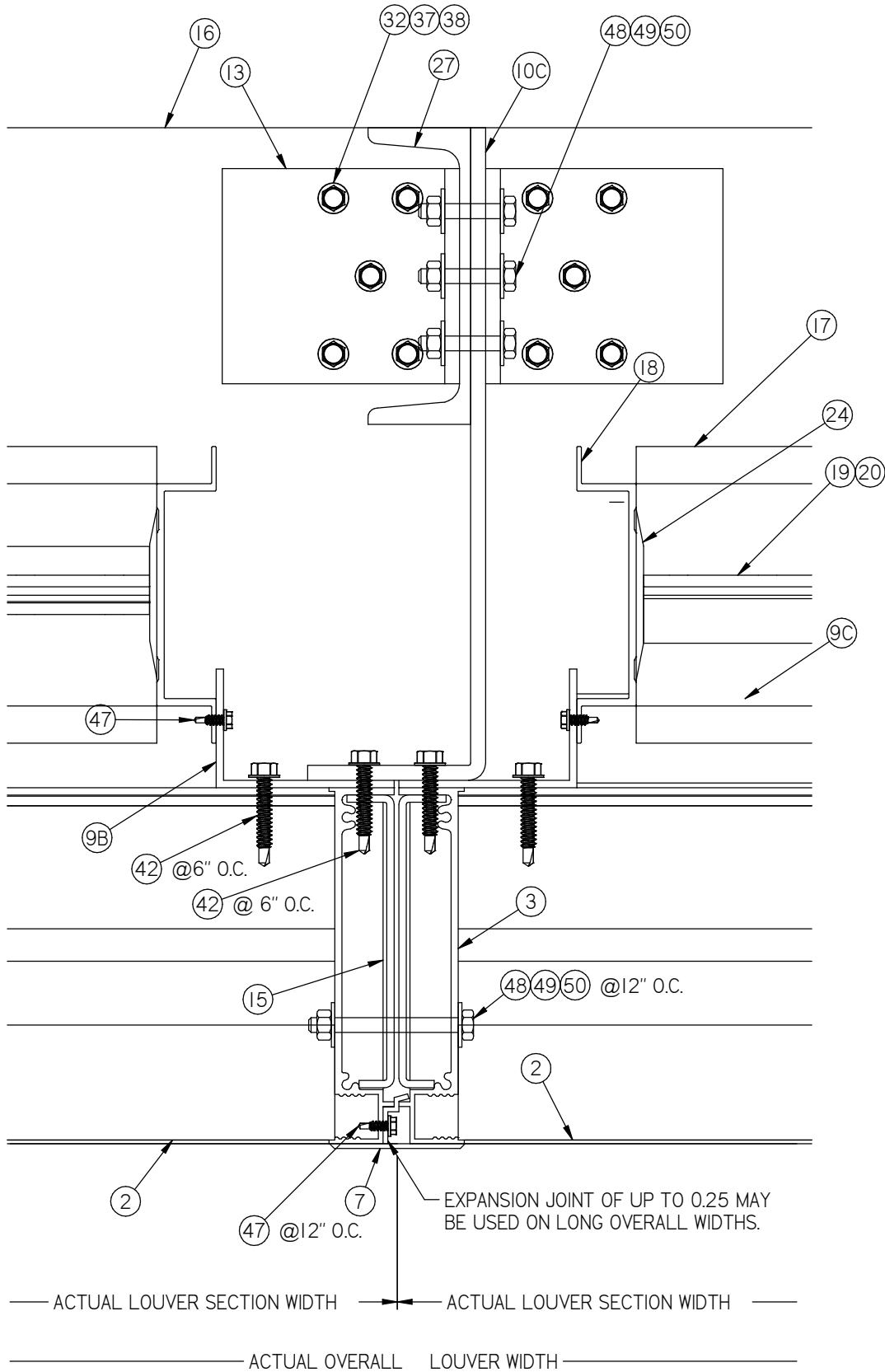
RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

REVISIONS:
REV B: UPDATED PAGE NUMBERS



I8A
16/27
MULLION DETAIL
SLEEVE MOUNT
FOR 36" BLADE SLEEVE MOUNT
STEEL C6X8.2 & ALUM 9X3 X 1/4 "

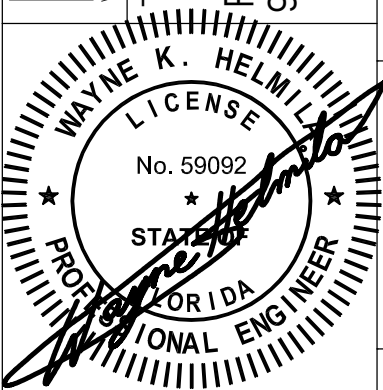
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **24-0516.04**
Expiration Date **08/30/2028**
By 
Miami-Dade Product Control



I8B
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.


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



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

DWN BY: f.cortinas

CHK BY: BDennis

DATE: 11/29/2021

SCALE: NTS

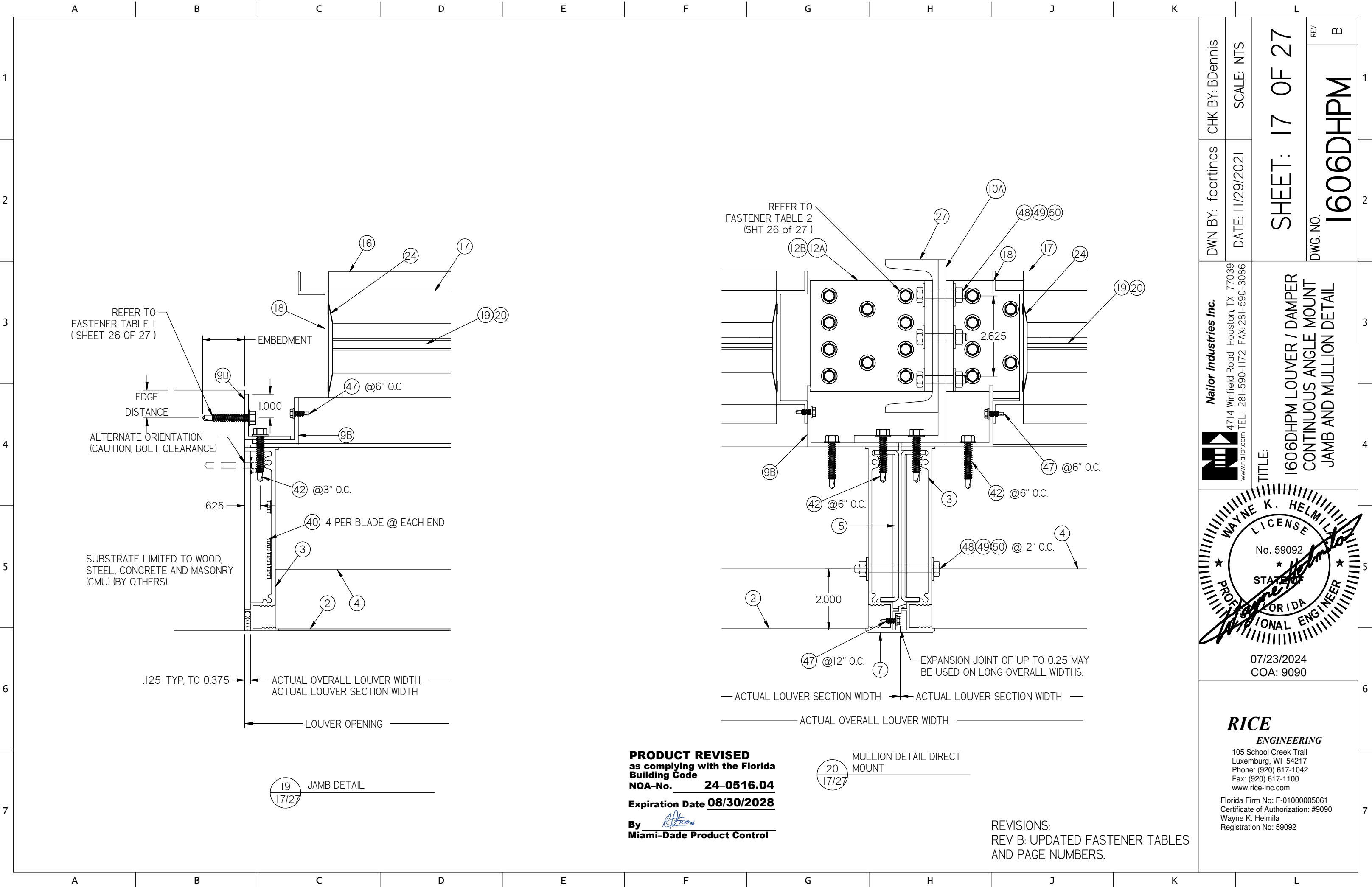
SHEET: 16 OF 27

DWG. NO.

1606DHPM

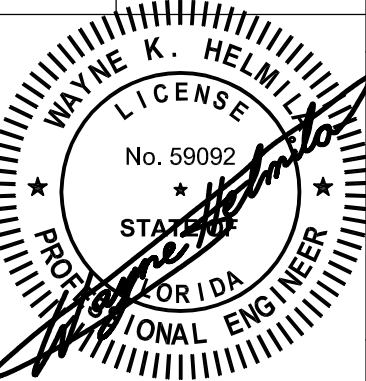
REV

B

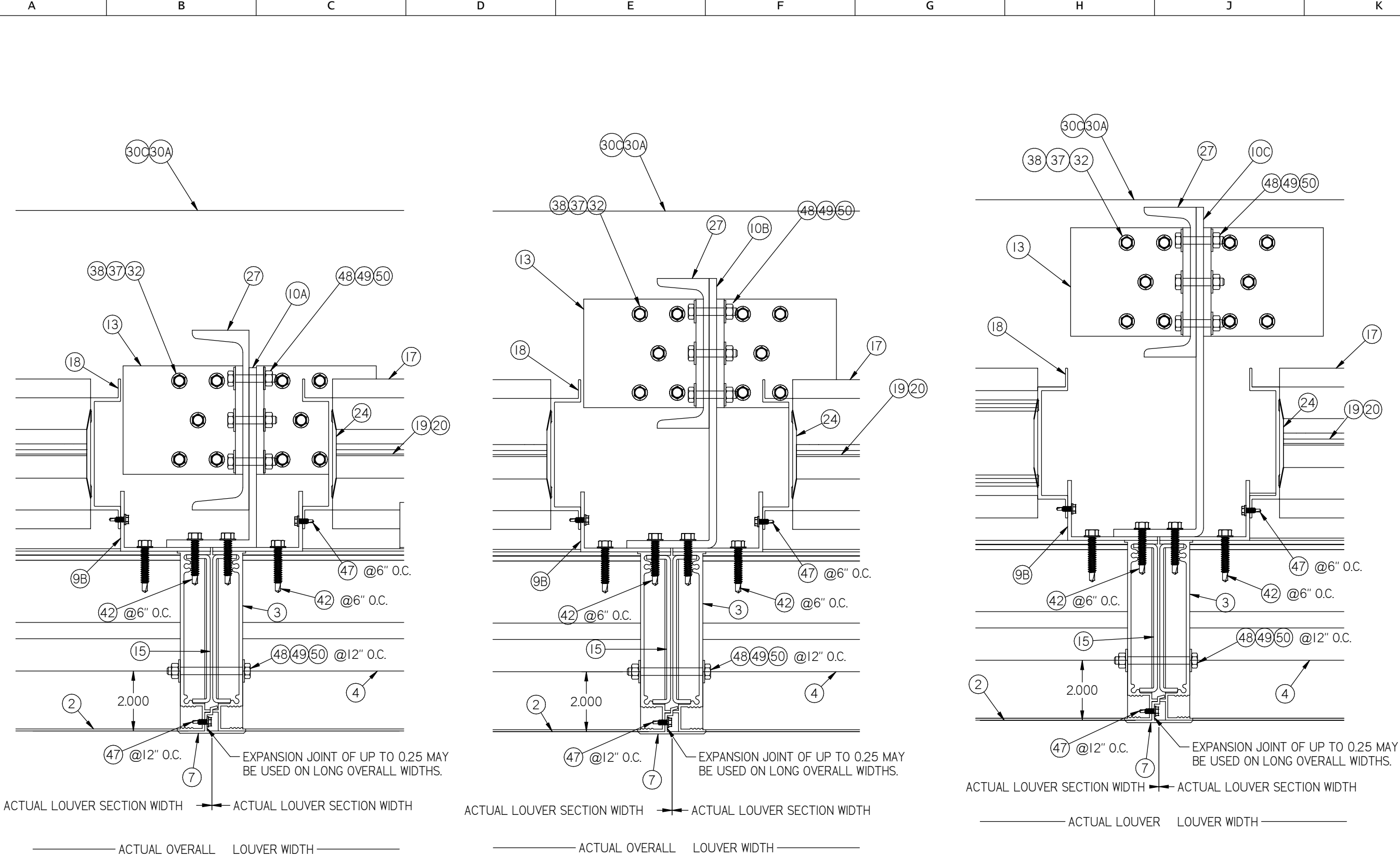


DWN BY: fcortinas	CHK BY: BDennis
DATE: 11/29/2021	SCALE: NTS
SHEET: 17 OF 27	
DWG. NO.	REV B
1606DHPM	

 Nailor Industries 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 JAMB AND MULLION DETAIL
--	--

 07/23/2024 COA: 9090
--

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



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

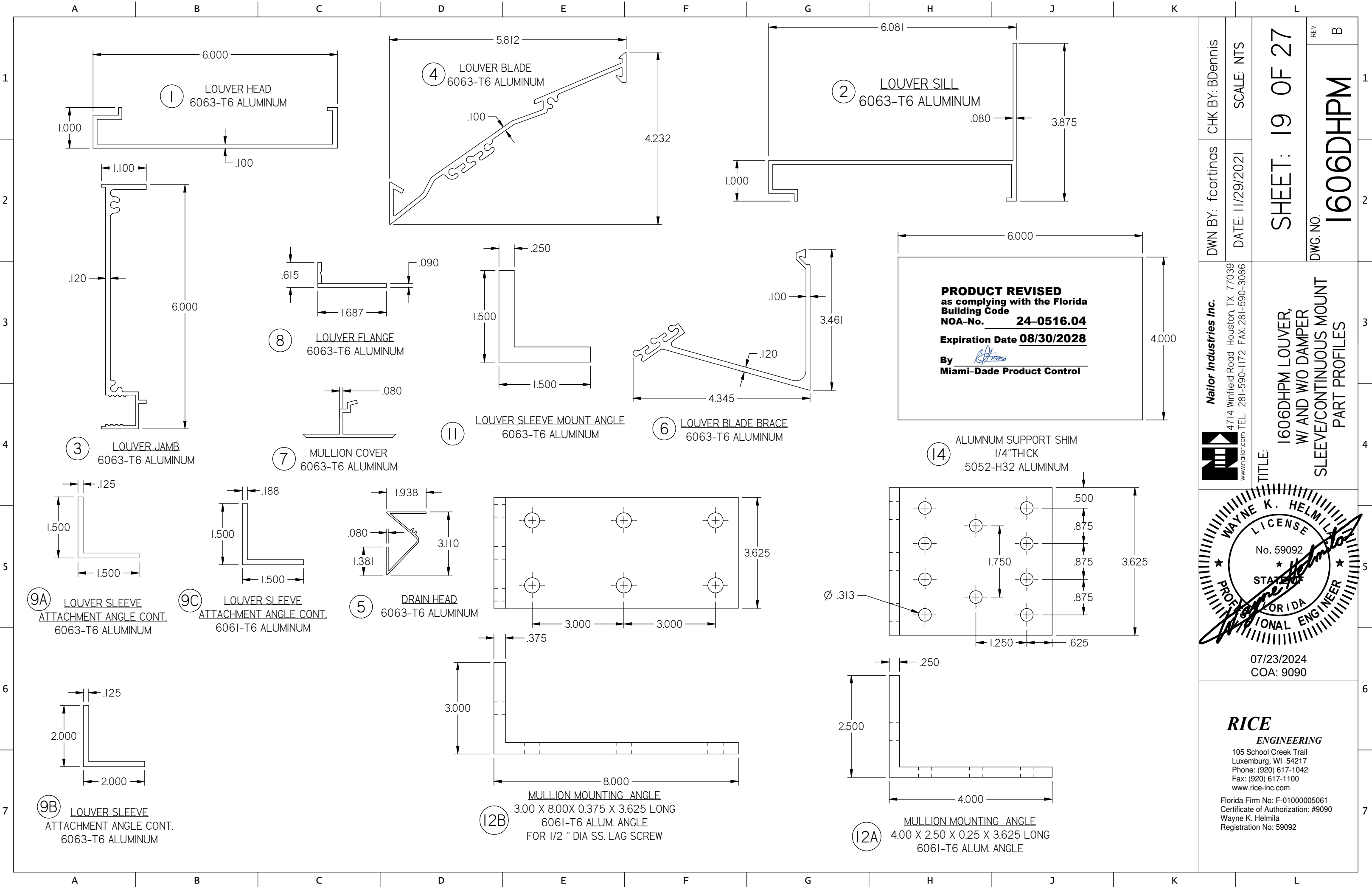
MULLION DETAIL BACK
OF WALL MOUNT
FOR 36" BLADE SLEEVE MOUNT
STEEL C6X8.2 & ALUM 9X3 X 1/4 "

MULLION DETAIL BACK
OF WAL 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. 24-0516.04
Expiration Date 08/30/2028
By *R. Helms*
Miami-Dade Product Control

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

DWN BY: f.cortinas		CHK BY: BDennis	
DATE: 11/29/2021		SCALE: NTS	
SHEET: 18 OF 27			
DWG. NO. 1606DHPM		REV B	
Nailor Industries 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			
07/23/2024 COA: 9090			
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. Helms Registration No: 59092			



CHK BY: BDennis

DWN BY: f.cortinas

Nailor Industries Inc.



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www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

DATE: 11/29/2021

SCALE: NTS

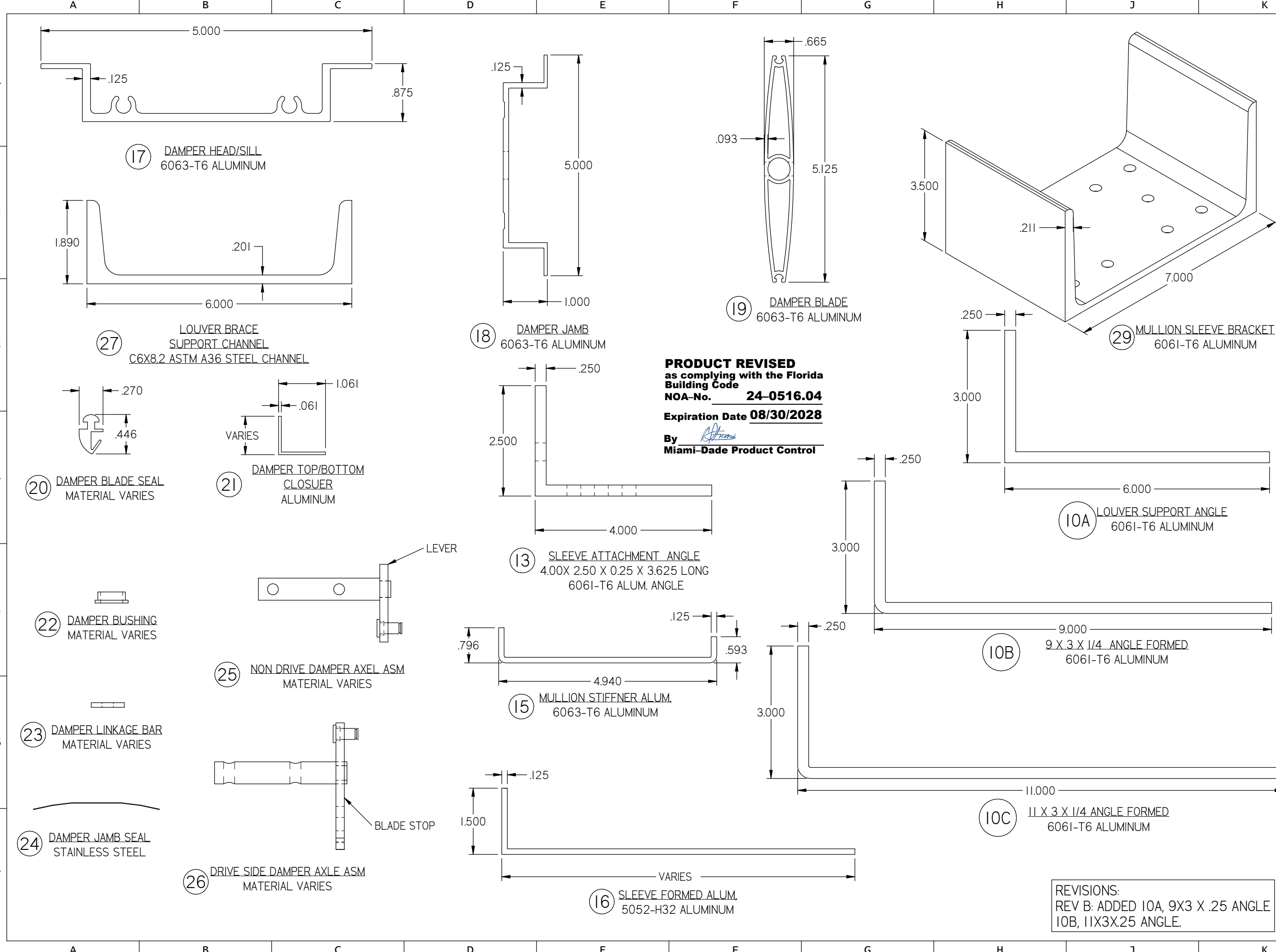
SHEET: 19 OF 27

DWG. NO. 1606DHPM

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



RICE
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Wayne K. Helmila
Registration No: 59092



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **24-0516.04**
Expiration Date **08/30/2028**
By *[Signature]*
Miami-Dade Product Control

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

DWN BY: f cortinas		CHK BY: BDennis
DATE: 11/29/2021		SCALE: NTS

Nailor Industries Inc.
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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.

WAYNE K. HELMILA
LICENSE
No. 59092
STATE OF FLORIDA
PROFESSIONAL ENGINEER
07/23/2024
COA: 9090

RICE ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
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www.rice-inc.com
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Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

1606DHPM

30A

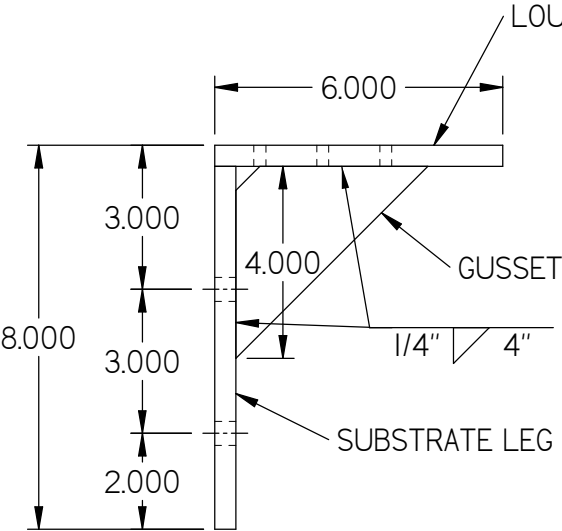
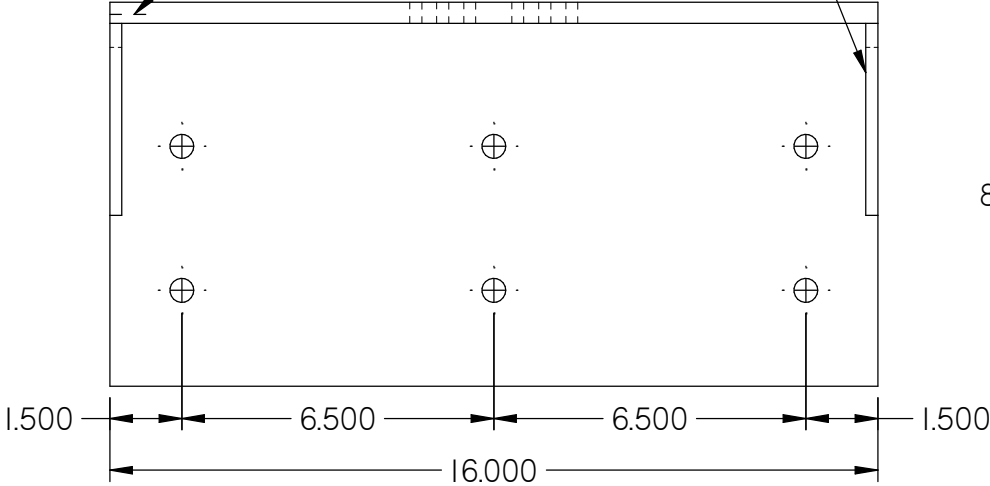
MULLION MOUNTING BRACKET
FOR MULLION ANGLE BACK OF WALL MOUNT
ASTM A36

GUSSET SUPPORT
4 X 4 TRIANGLE
ONE NEAR EACH END

SUBSTRATE EDGE

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)

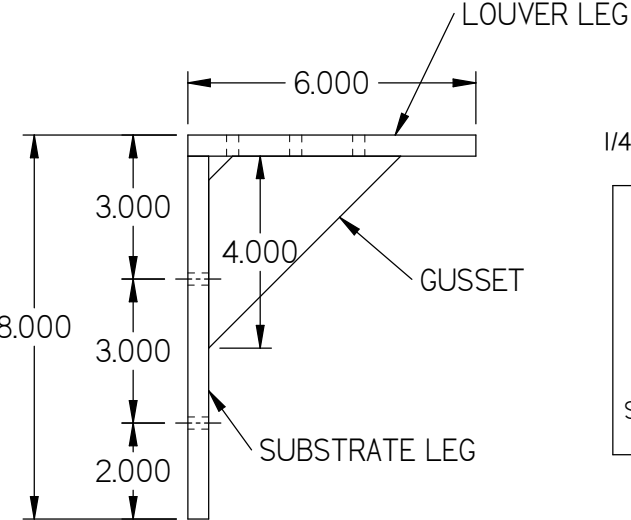
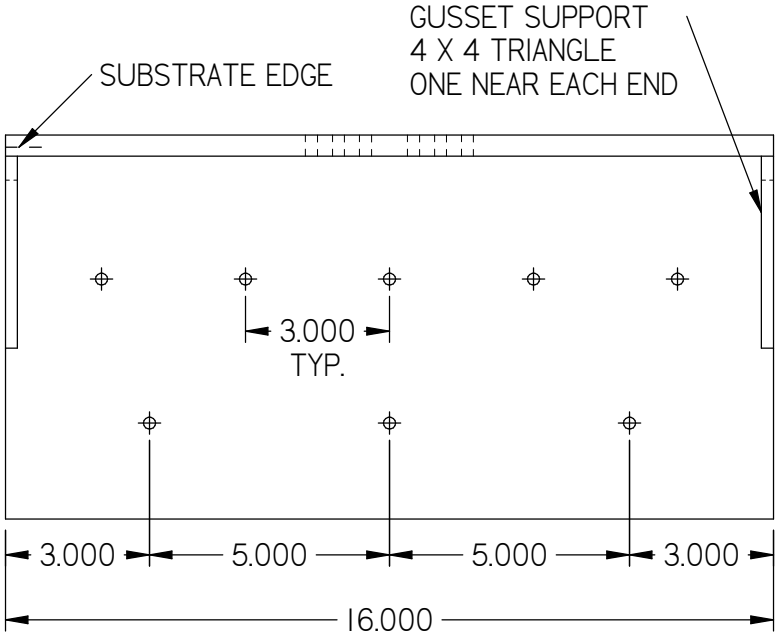
THESE MOUNTING BRACKETS ARE
FOR DETAILS 12B-12/27,
20A-18/27, 20B-18/27, AND
20C-18/27
(CONCRETE AND WOOD)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **24-0516.04**
Expiration Date **08/30/2028**

By 
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 ENGAGMENT
1-1/2" MIN. EDGE/END DISTANCE
SPACING AS SHOWN
ASSUME: SPRUCE/PINE/FIR, SG=0.42

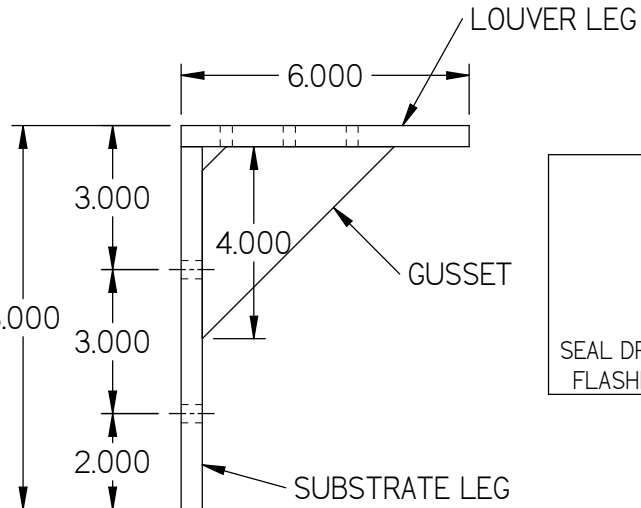
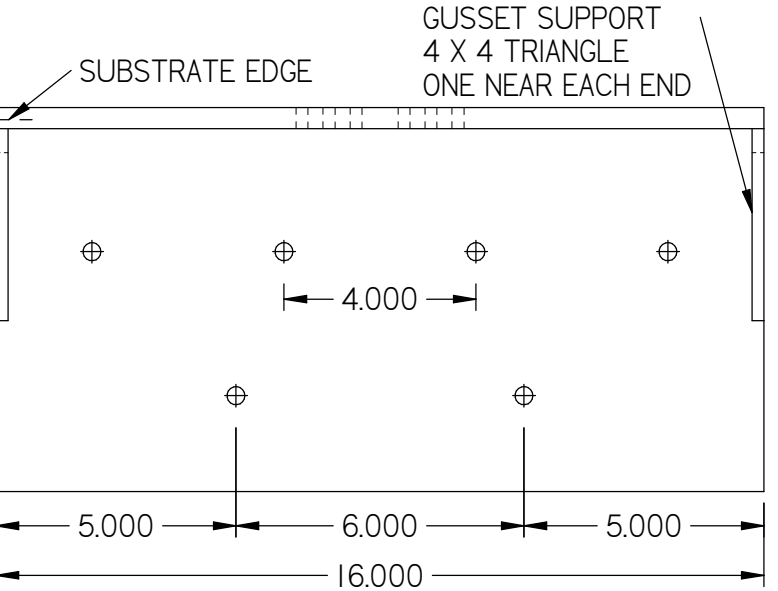


1/4-20 DIA. S.S. ELCO BI-FLEX AND DRIL-FLEX ANCHORS:

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 ENGAGMENT
1-1/2" MIN. EDGE/END DISTANCE
SPACING AS SHOWN
ASSUME: SPRUCE / PINE / FIR, SG= 0.42



5/16-24 DIA. DRIL-FLEX ANCHORS

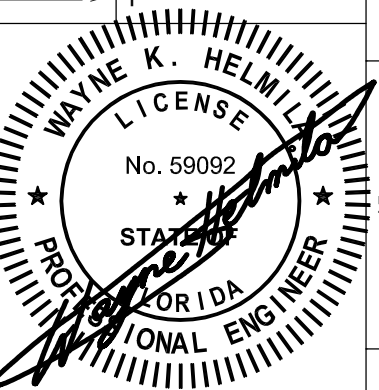
USE (6) 5/16" DIA.
S.S. ELCO DRIL-FLEX FASTENERS
FULL THREAD ENGAGEMENT
1" MIN. EDGE/END DISTANCE
SPACING AS SHOWN
ASSUME: 1/4" STEEL (A36)
SEAL DRIL-FLEX FASTENERS WITH LIQUID PROSOCO
FLASHING IF EXPOSED TO EXTERIOR CONDITIONS

REVISIONS:
REV B: UPDATED 16" MULLION BRACKET

Nailor Industries Inc.



4714 Winfield Road Houston, TX 77039
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07/23/2024
COA: 9090

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: f.cortinas

CHK BY: BDennis

DATE: 11/29/2021

SCALE: NTS

SHEET: 21 OF 27

DWG. NO. B

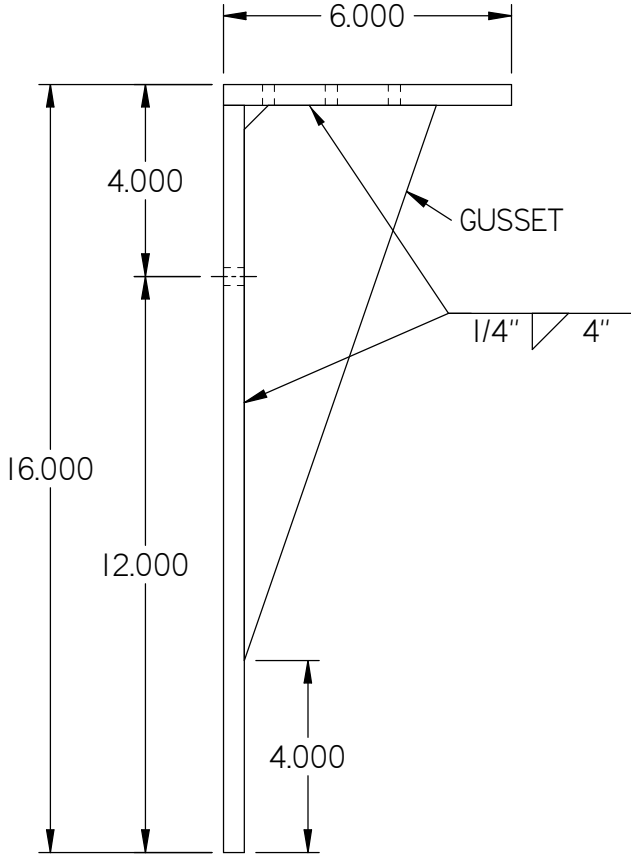
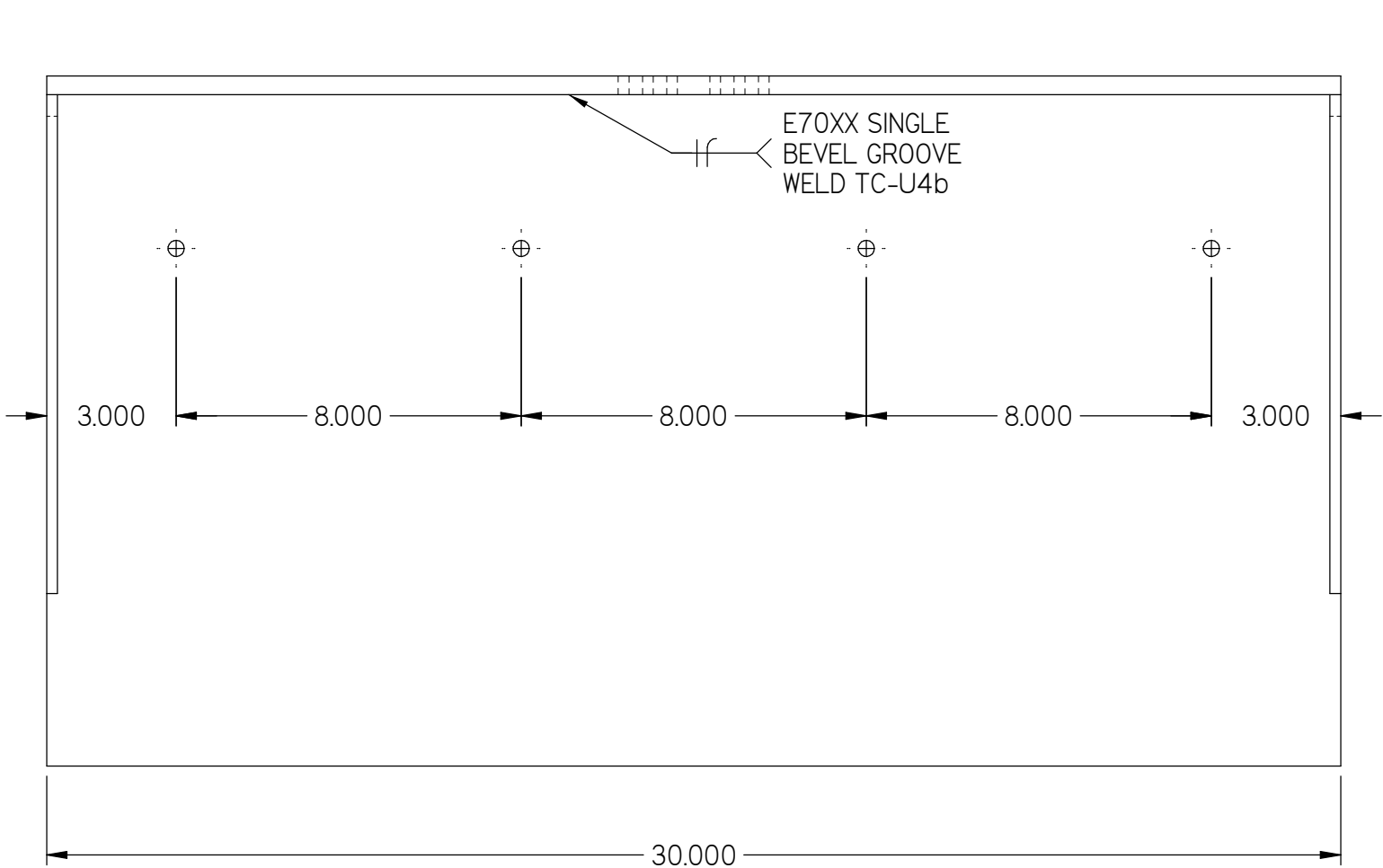
1606DHPM

TITLE:
16" 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 PROSOCO FLASHING AT EXTERIOR CONDITIONS.

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)

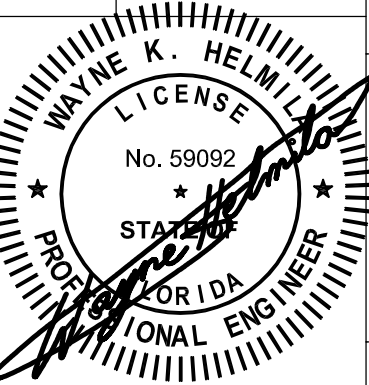
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0516.04
Expiration Date 08/30/2028
By *[Signature]*
Miami-Dade Product Control

REVISIONS:
REV B: ADDEDD 30" MULLION BRACKET

Nailor Industries Inc.



4714 Winfield Road Houston, TX 77039
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



07/23/2024
COA: 9090

RICE

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

DWN BY: f cortinas

CHK BY: BDennis

DATE: 11/29/2021

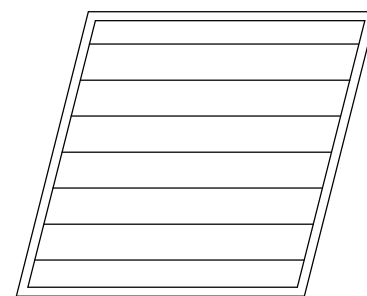
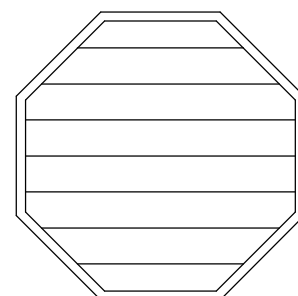
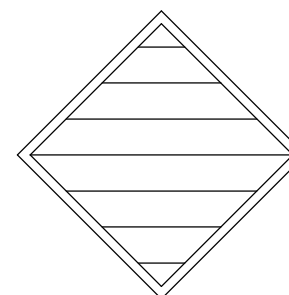
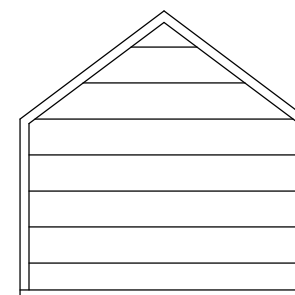
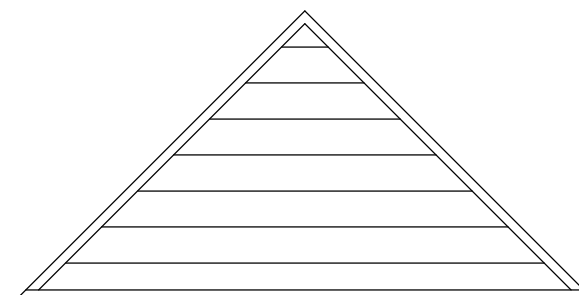
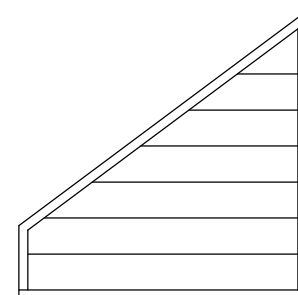
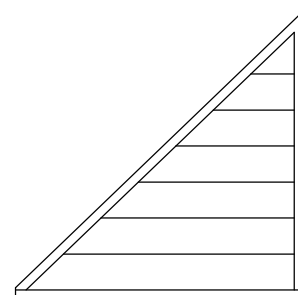
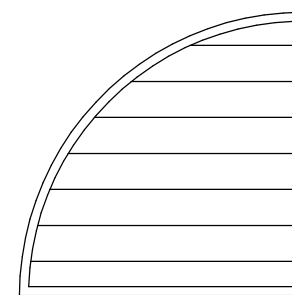
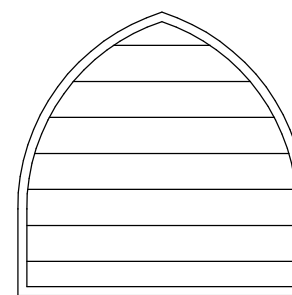
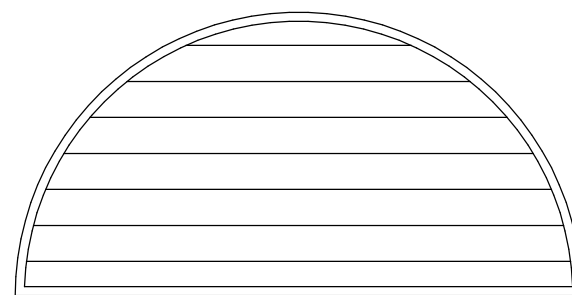
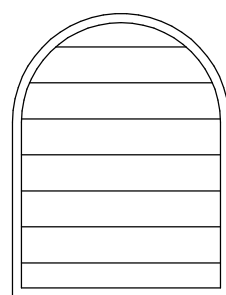
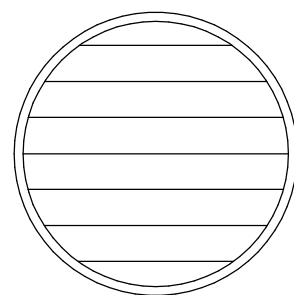
SCALE: NTS

SHEET: 23 OF 27

DWG. NO.

1606DHPM

30" CMU MULLION ANGLES
BACK OF THE WALL MOUNT



NOTES:

I. 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.

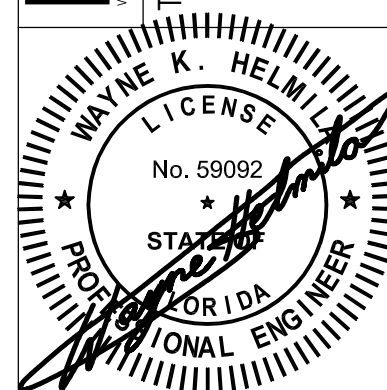
4. USE CONTINUOUS ANGLES TO ANCHOR OTHER LOUVER SHAPES TO BUILDING SUBSTRATE. SEE ANCHOR SCHEDULE FOR SUBSTRATE-SPECIFIC LIMITATIONS.

PRODUCT REVISED
as complying with the Florida
Building Code

Building Code
NOA-No. 24-0516.04

Expiration Date 08/30/2028

By 
Miami-Dade Product Control



07/23/2024
COA: 9090

RICE

ENGINEERING

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Florida Firm No: F-01000005061

Certificate of Authorization: #9090

Wayne K. Helmila

Registration No: 59092



Nailor Industries Inc.
4714 Winfield Road Houston, TX

4714 Winfield Road Houston, TX 77039
www.naiar.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:

1606DHPM LOUVER
W/ AND W/O DAMPER
AVAILABLE SHAPES

DWN BY: f cortinas	CHK BY: BDennis
--------------------	-----------------

DATE: 11/29/2021	SCALE: NTS
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SHEET: 24 OF 27

DWG. NO.

Q.	1606DHPM	REV B
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2

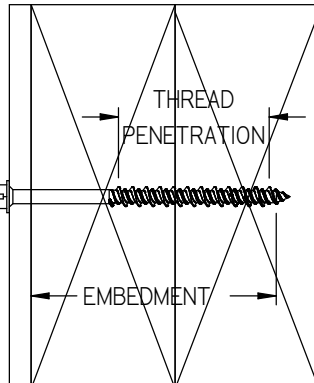
3

4

5

6

7

A	B	C	D	E	F	G	H	J	K	L		
*EMBEDMENT DEPTH IS EQUAL TO OVERALL LENGTH FOR CONCRETE /CMU FASTENERS. IF SHIMS ARE USED, FASTENER LENGTH MUST BE INCREASED BY THICKNESSOF SHIMS												
LOUVER MODEL I606DHPM 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				I6 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	VARIES	1"		3-11/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	10	VARIES	1"		3-11/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	6	VARIES	1-1/2"		3-9/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	8	VARIES	1-1/2"		3-9/32"
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	8	VARIES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	10	VARIES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	6	VARIES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	8	VARIES	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. 24-0516.04 Expiration Date 08/30/2028 By  Miami-Dade Product Control												
REVISIONS: REV B: UPDATED FASTENER TABLES												
A	B	C	D	E	F	G	H	J	K	L		

CHK BY: BDennis

DWN BY: fcartinas

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SCALE: NTS

DATE: 11/29/2021

SHEET: 26 OF 27

DWG. NO. I606DHPM

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

WAYNE K. HELMILA
LICENSE
No. 59092
STATE OF FLORIDA
PROFESSIONAL ENGINEER

08/14/2024
COA: 9090

RICE
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Wayne K. Helmila
Registration No: 59092

A	B	C	D	E	F	G	H	J	K	L				
GENERAL NOTES: 1 2 3 4 5 6 7 1 2 3 4 5 6 7 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 100(A) 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 G.A. 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 IND. DOES NOT DETERMINE THE STRUCTURAL INTERGRITY OF THE SUBSTRATE STRUCTURE. 8. THE CONTINUOUS ANGLE MOUNT STYLE UTILIZES A CONTINUOUS JAMB ANGLETHAT IS ATTACHED TO THE SUBSTRATE BY FASTENERS. IT MAY BE INSTALLED IN CONCRETE, CMU, STEEL, OR WOOD ACCORDING TO THE FASTENER SCHEDULE. NAILOR IND. DOES NOT DETERMINE THE STRUCTRAL INTERGRITY OF THE SUBSTRATE STUCTURE. 9. LOUVER ASSEMBLY IS QUALIFIEDFOR A MAXIMUM DESIGN LOAD OF $\pm$ 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 OPERATIED BY A MANUAL QUADRANT OR BY AN ELECTRIC OR PNEUMATIC ACTUALTOR, 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 DWG. NO. 1606DHPM	4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086 1606DHPM LOUVER W/ AND W/O DAMPER GENERAL NOTES	WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER 07/23/2024 COA: 9090	PRODUCT REVISED as complying with the Florida Building Code NOA-No. 24-0516.04 Expiration Date 08/30/2028 By  Miami-Dade Product Control REVISIONS: REV B: ADDED GENERAL NOTES PAGE	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