



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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

www.miamidade.gov/economy

Industrial Louvers, Inc.
511 South 7th Street
Delano, MN 55328

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 SP537DC 5" Deep Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **RD1032**, titled "SP-537DC 5" Deep Storm Performance Louver", sheets 1 through 12 of 12, dated 03/21/2013, with revision 11 dated 01/30/2024, prepared by Industrial Louvers, Inc., signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

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

This NOA **revises NOA # 23-0714.02** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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




04/30/24

NOA No. 24-0213.04
Expiration Date: July 10, 2028
Approval Date: May 9, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. **Evidence submitted under previous NOA's**
- A. **DRAWINGS “Submitted under NOA #13-0717.12”**
 1. Drawing No. **RD1032**, titled “SP-537DC 5” Deep Storm Performance Louver”, sheets 1 through 11 of 11, dated 03/21/2013, with revision 5 dated 10/11/2013, prepared by Industrial Louvers, Inc., signed and sealed by L. David Rice, P.E.
- B. **TESTS “Submitted under NOA # 08-0513.08”**
 1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of Model SP-537DC Aluminum Louver, prepared by Architectural Testing, Inc., Test Report No. **79282.01-201-18**, dated 03/20/2008, signed and sealed by Joseph A. Reed, P.E.
- C. **CALCULATIONS “Submitted under NOA #13-0717.12”**
 1. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 07/11/2013, signed and sealed by L. David Rice, P.E.

“Submitted under NOA # 08-0513.08”
 2. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 05/05/2008, signed and sealed by L. David Rice, P.E.
- D. **QUALITY ASSURANCE**
 1. Miami-Dade Department of Regulatory and Economic Resources (RER)
- E. **MATERIAL CERTIFICATIONS**
 1. None.
- F. **STATEMENTS “Submitted under NOA #13-0717.12”**
 1. Statement letter of conformance to 2010 FBC, issued by Rice Engineering, dated 07/09/2013, signed and sealed by L. David Rice, P.E.
 2. Statement letter of no financial interest issued by Rice Engineering, dated 07/09/2013, signed and sealed by L. David Rice, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0213.04
Expiration Date: July 10, 2028
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 18-0222.07

A. DRAWINGS

1. Drawing No. **RD1032**, titled “SP-537DC 5” Deep Storm Performance Louver”, sheets 1 through 12 of 12, dated 03/21/2013, with revision 7 dated 02/08/2018, prepared by Industrial Louvers, Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 02/09/2018, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance to the 6th edition (2017) FBC, issued by Rice Engineering, dated 02/09/2018, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 02/09/2018, signed and sealed by Wayne K. Helmila, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0213.04
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 21-1012.02 and # 23-0714.02

A. DRAWINGS

1. Drawing No. **RD1032**, titled “SP-537DC 5” Deep Storm Performance Louver”, sheets 1 through 12 of 12, dated 03/21/2013, with revision 9 dated 04/28/2023, prepared by Industrial Louvers, Inc., signed and sealed by Wayne K. Helmila, P.E. on 05/09/2023.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model SP-537DC Aluminum Louver, prepared by Intertek, Test Report No. **P9270.01-201-18 R0**, dated 06/15/2023, signed and sealed by Tanya A. Dolby, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 09/29/2021, 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. Test report on Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems per ASTM E1886-13a and Louvers Impacted by Wind Borne Debris (Missile Level “E”) per AMCA 540 along with marked-up drawings and installation diagram of Model SP-537DC Aluminum Louver, prepared by Intertek/Architectural Testing, Test Report No. **G8708.01-201-44**, dated 08/10/2017, signed and sealed by Gary T. Hartman, P.E.

F. STATEMENTS

1. Statement letter of code conformance to the 7th edition (2020) of the FBC, issued by Rice Engineering, dated 09/20/2021, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 09/20/2021, signed and sealed by Wayne K. Helmila, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0213.04
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4. New evidence submitted

A. DRAWINGS

1. Drawing No. **RD1032**, titled “SP-537DC 5” Deep Storm Performance Louver”, sheets 1 through 12 of 12, dated 03/21/2013, with revision 11 dated 01/30/2024, prepared by Industrial Louvers, Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 01/27/2024, 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 01/30/2024, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 01/30/2024, signed and sealed by Wayne K. Helmila, P.E.



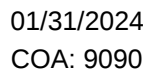
Carlos M. Utrera, P.E.
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- G-01 IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVERS.
- G-02 THESE LOUVER SYSTEMS HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE (FBC), AMCA 540 ENHANCED LEVEL E IMPACT, AND FBC PROTOCOLS TAS-201 LARGE MISSILE, TAS-202, AND TAS-203 FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- G-03 EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:
INDUSTRIAL LOUVERS, INC. MODEL SP537DC
DELANO, MN
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- G-04 ALL CONCRETE SUBSTRATE SHALL BE MINIMUM 4000 PSI.
- G-05 ALL GROUT FILLED CMU SUBSTRATE SHALL BE MINIMUM 1500 PSI CONFORMING TO UBC 21-17.
- G-06 ALL WOOD SUBSTRATE SHALL BE MINIMUM $G = 0.55$ DENSITY.
- G-07 ALL METAL STUD SUBSTRATE SHALL BE MINIMUM 16 GAUGE $F_y = 33$ KSI.
- G-08 ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MINIMUM $F_y = 46$ KSI.
- G-09 ALL STAINLESS STEEL FASTENERS AND ANCHORS SHALL BE 300 SERIES STAINLESS STEEL.
- G-10 PANEL WIDTHS AND HEIGHTS ARE LIMITED AS SHOWN ON SHEETS 2 AND 3.
- G-11 PANELS MAY BE HORIZONTALLY STACKED TO AN UNLIMITED WIDTH. VERTICAL STACKING MAY OCCUR PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO WITHSTAND ALL LOADS IMPOSED BY THE LOUVERS. SINGLE NON-REINFORCED PANELS MAY BE STACKED VERTICALLY TO AN UNLIMITED HEIGHT.
- G-12 SEPARATION OF DISSIMILAR METALS MUST BE MAINTAINED PER SECTION 2003.8.4 OF THE FBC.
- G-13 THIS LOUVER 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 OR WATER PROOF EQUIPMENT, COMPONENTS, AND/OR SUPPLIES.
- G-14 SEAL HILTI KWIK HUS-EZ ANCHORS WITH LIQUID PROSOCO FLASHING AT EXTERIOR CONDITIONS.

- K-01 SHELF ANGLES ATTACHED TO SURROUNDINGS PER SHELF ANGLE ANCHOR SCHEDULE. SHELF ANGLES WILL ONLY BE SUPPLIED IF THE PROJECT CONDITIONS REQUIRE IT.
- K-10 4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLES ATTACHED TO SURROUNDINGS PER MULLION ANCHOR SCHEDULE.
- K-11 MULLION CLIP ANGLES ATTACHED TO VERTICAL CHANNELS W/ (4) 1/2" X 2 1/2" SS THRU BOLTS.
- K-12 VERTICAL CHANNELS FASTENED TOGETHER W/ 1/4" X 1" SS THRU BOLTS AT 24" O.C.
- K-13 1/4" X 1 1/4" GASKET TAPE APPLIED BETWEEN VERTICAL CHANNELS.
- K-21 4" LONG 2" X 2" X 1/8" CLIP ANGLES ANCHORED TO SURROUNDINGS AT NO MORE THAN 10" O.C. PER JAMB ANCHOR SCHEDULE.
- K-22 JAMB CLIP ANGLES ATTACHED TO SIDE FRAMES W/ (2) #12 X 1" SS SCREWS PER CLIP ANGLE.
- K-31 VERTICAL CHANNELS ATTACHED TO EACH BLADE AND EACH BLADE BRACE W/ (1) #10 X 1" SS SCREW.
- K-32 BOTTOM FRAME ATTACHED TO SIDE FRAMES W/ (2) #8 X 5/8" SS SCREWS PER SIDE FRAME.
- K-33 BLADES ATTACHED TO SIDE FRAMES W/ (3) #10 X 1" SS SCREWS PER BLADE END.
- K-34 TOP FRAME ATTACHED TO SIDE FRAMES W/ (2) #8 X 5/8" SS SCREWS PER SIDE FRAME.
- K-41 BACKER ROD AND SEALANT APPLIED AROUND THE PERIMETER OF EACH LOUVER AFTER INSTALLATION.

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



ITEM	ANCHOR QUANTITY	ANCHOR DESCRIPTION	MAX. LOUVER HEIGHT	SHELF ANGLE	SUBSTRATE	MIN. EMB.	MIN. EDGE DIST.	MIN. SPACING
SA11	2 PER SHELF ANGLE	1/2" DIA. S.S. HILTI KWIK BOLT TZ2	60"	ITEM 34	CONCRETE	3"	3"	13" O.C.
SA12	2 PER SHELF ANGLE	HILTI HIT-HY 200 WITH 1/2" DIA. S.S. HIT-Z-R	108"	ITEM 34	CONCRETE	5 3/4"	3"	13" O.C.
SA13	3 PER SHELF ANGLE	HILTI HIT-HY 200 WITH 1/2" DIA. S.S. HIT-Z-R	135"	ITEM 35	CONCRETE	5 3/4"	3"	10" O.C.
SA14	4 PER SHELF ANGLE	HILTI HIT-HY 200 WITH 1/2" DIA. S.S. HIT-Z-R	154"	ITEM 36	CONCRETE	5 3/4"	3"	8" O.C.
SA21	2 PER SHELF ANGLE	1/2" DIA. S.S. BOLT	108"	ITEM 34	1/4" THICK STEEL	- - -	3"	13" O.C.
SA22	3 PER SHELF ANGLE	1/2" DIA. S.S. BOLT	154"	ITEM 34	1/4" THICK STEEL	- - -	3"	5" O.C.
SA31*	4 PER SHELF ANGLE	1/2" DIA. S.S. HILTI KWIK BOLT TZ2	108"	ITEM 36	CONCRETE	3 5/8"	3"	8" O.C.

ITEM	ANCHOR QUANTITY	ANCHOR DESCRIPTION	CLIP ANGLE	SUBSTRATE	SLAB THICKNESS	MIN. EMB.	MIN. EDGE DIST.	MIN. SPACING
MA11	1 PER CLIP	1/2" DIA. S.S. HILTI KWIK BOLT TZ2	ITEM 32	CONCRETE	8"	3 5/8"	6 1/2"	5 1/2" O.C.
MA12	1 PER CLIP	1/2" DIA. S.S. BOLT	ITEM 32	1/4" THICK STEEL	- - -	- - -	1"	1" O.C.
MA13*	4 PER CLIP	1/2" DIA. S.S. LAGBOLT	ITEM 33	WOOD	- - -	5 1/2"	1"	1 1/4" O.C.

ITEM	QUANTITY	DESCRIPTION	CLIP ANGLE	SUBSTRATE	MIN. EMB.	MIN. EDGE DIST.	MIN. SPACING
JA11	2 PER CLIP	HILTI S.S. HUS-HR M6	ITEM 31	CONCRETE	2 3/16"	1 1/2"	2 3/4" O.C.
JA12	1 PER CLIP	1/4" DIA. HILTI KWIK HUS-EZ	ITEM 31	CONC. BLOCK	2 1/2"	4"	8" O.C.
JA13	2 PER CLIP	1/4" DIA. S.S. SELF-DRILLING SCREW	ITEM 31	3/16" THICK STEEL	- - -	1"	2 3/4" O.C.
JA14	3 PER CLIP	1/4" DIA. S.S. SELF-DRILLING SCREW	ITEM 31	16 GA. STL STUDS	- - -	1"	1 3/8" O.C.
JA15	2 PER CLIP	1/4" DIA. S.S. LAG BOLT	ITEM 31	WOOD	4"	1"	2 3/4" O.C.

ITEM	DESCRIPTION	PART NUMBER	MATERIAL SPECIFICATIONS
01	LOUVER BOTTOM FRAME	FRM1384-M	6063-T6 ALUM. 0.081" THICK
02	LOUVER SIDE FRAME	FRM1386-M	6063-T6 ALUM. 0.081" THICK
03	LOUVER TOP FRAME	FRM1385-M	6063-T6 ALUM. 0.081" THICK
04	LOUVER BLADE	BLD1404	6063-T6 ALUM. 0.063" THICK
11	BLADE BRACE, BOTTOM BLADE, 1" LONG	HARPUN9160	6063-T6 ALUM. 0.156" THICK
12	BLADE BRACE, TYPICAL, 2" LONG	HARPUN9164	6063-T6 ALUM. 0.156" THICK
21	1" X 5" X 2" X 1/8" CHANNEL	CHN1046	6061-T6 ALUM.
22	1" X 6 5/8" X 2" X 1/8" CHANNEL	CHN1050	6061-T6 ALUM.
23	1" X 7" X 2" X 3/16" CHANNEL	CHN1060	6061-T6 ALUM.
31	4" LONG 2" X 2" X 1/8" CLIP ANGLE	HAR9335	6061-T6 ALUM.
32	4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE	HAR9365	6061-T6 ALUM.
33	4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE	HAR9366	6061-T6 ALUM.
34	15" LONG 4" X 6" X 1/2" SHELF ANGLE	HAR9376	6061-T6 ALUM.
35	22" LONG 4" X 6" X 1/2" SHELF ANGLE	HAR9377	6061-T6 ALUM.
36	27" LONG 4" X 6" X 1/2" SHELF ANGLE	HAR9378	6061-T6 ALUM.
41	#8 X 5/8" SD PH SM SCREW	FAS5042	18-8 SS CW TYPE-A
42	#10 X 1" SD PH SM SCREW	FAS6510	18-8 SS CW TYPE-A
43	#12 X 1" SL HWH SM SCREW	FAS5135	18-8 SS CW TYPE-A
44	1/4"-20 X 1" HH BOLT W/ WASHERS AND NUT	FAS5155	18-8 SS CW CAP SCREW
45	1/2"-13 X 2" HH BOLT W/ WASHERS AND NUT	FAS5185	18-8 SS CW CAP SCREW
46	1/2"-13 X 2 1/2" HH BOLT W/ WASHERS AND NUT	FAS5189	18-8 SS CW CAP SCREW



Industrial Louvers, Inc.

5" Deep Storm Performance Dade County Approved Louver

Revisions			Date
No.	By	Description	
1 - 5	-	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013	-
6	DG	UPDATED PER 2014 FBC	04/15/14
7	DG	UPDATED PER 2017 FBC. UPDATED PER AMCA 540 TESTING	02/08/18
8	DG	UPDATED PER 2020 FBC	09/20/21
9	DG	REVISED CLIP ANGLE SPACING	04/28/23
10	DG	UPDATED GENERAL NOTES TO REFERENCE 2023 FBC	10/10/23
11	DG	REVISED JA12 ANCHOR	01/30/24

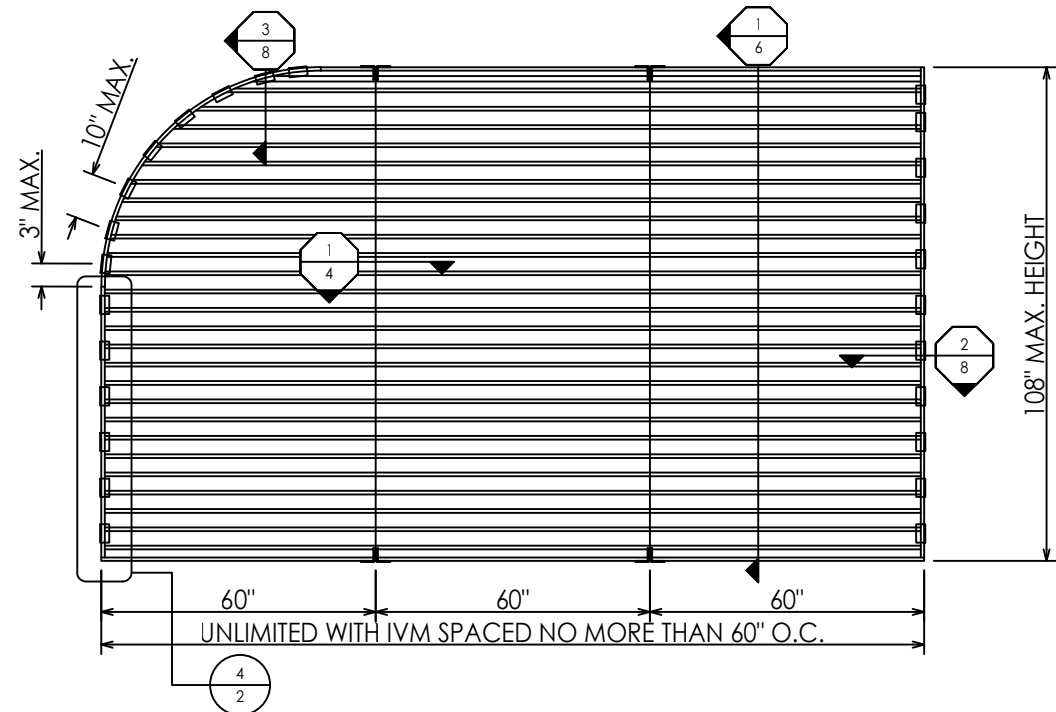
Date:	3/21/13
Drawn By:	DG
Checked By:	DM
Drawing No.	
RD1032	

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0213.04

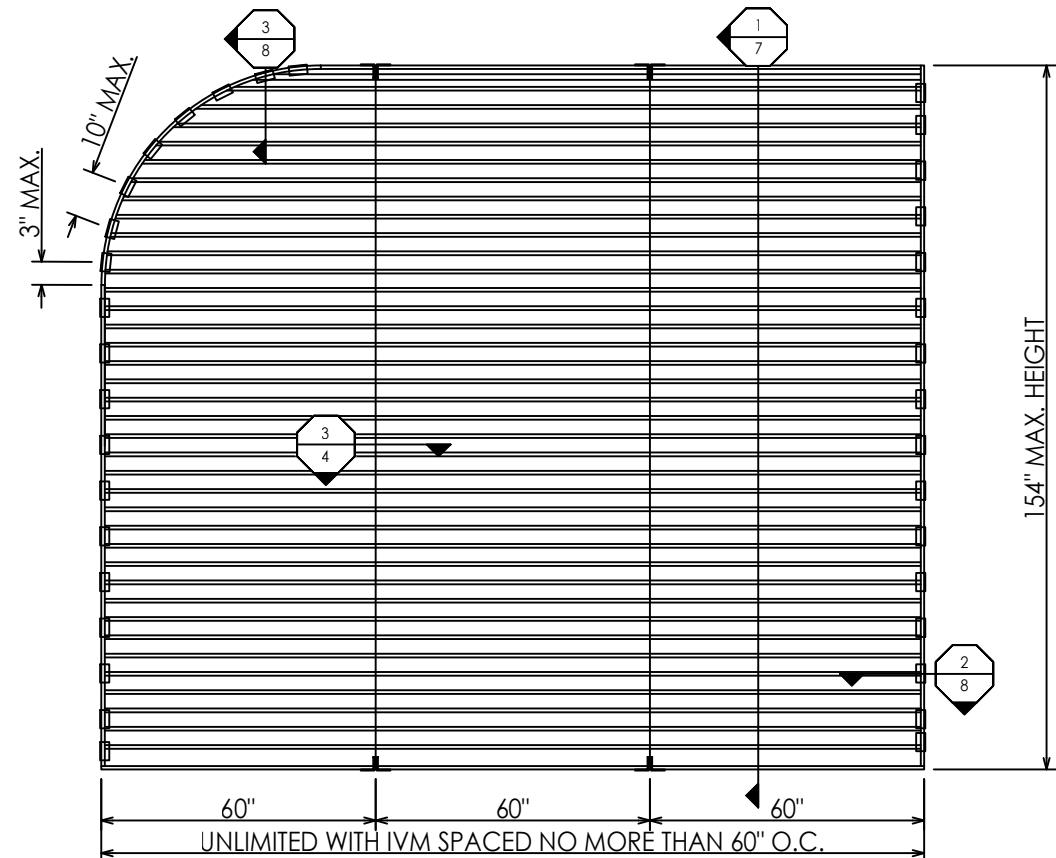
Expiration Date 07/10/2028

By *[Signature]*
Miami-Dade Product Control

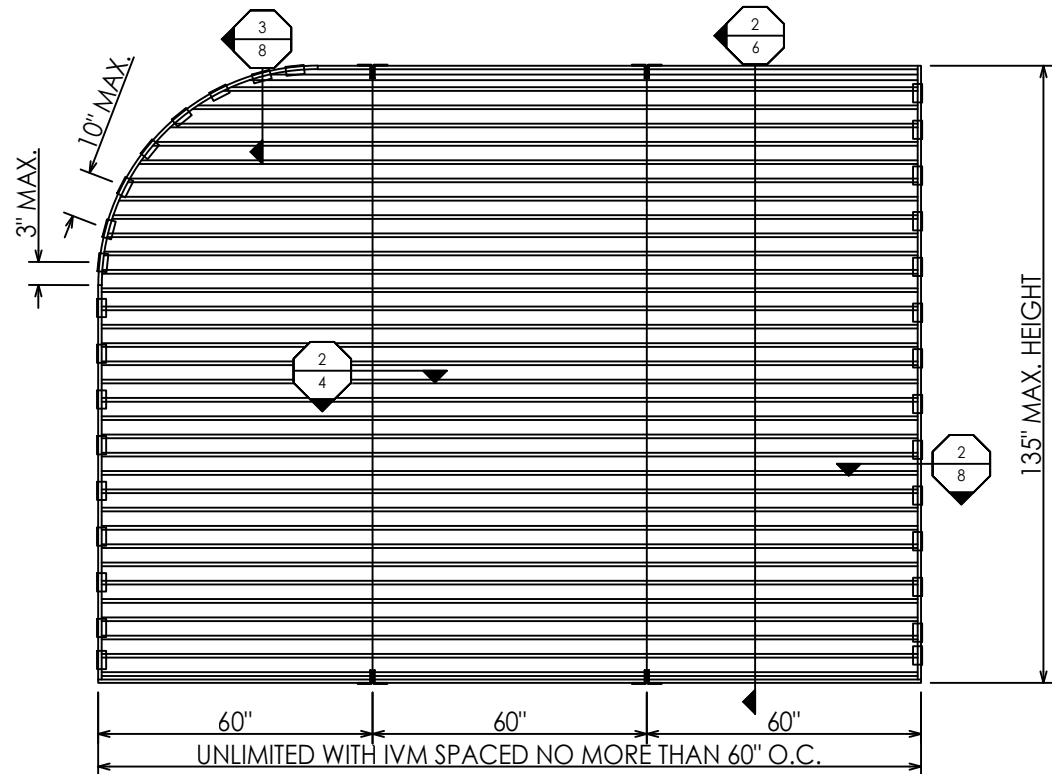
Sheet No.
1 Of 12



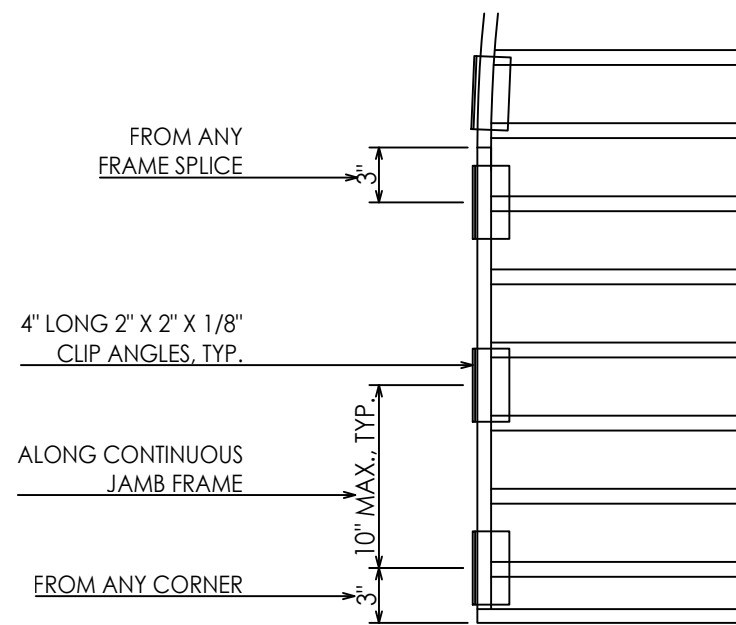
SPECIMEN #1
120 PSF DESIGN PRESSURE



SPECIMEN #3
120 PSF DESIGN PRESSURE



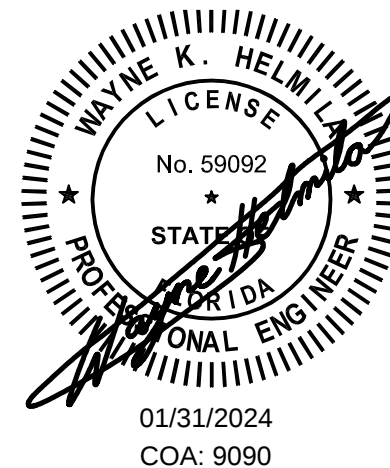
SPECIMEN #2
120 PSF DESIGN PRESSURE



JAMB ANCHOR LOCATIONS
TYPICAL FOR ALL SPECIMENS

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



01/31/2024
COA: 9090

Info@IndustrialLouvers.com
www.IndustrialLouvers.com
Delano, Minnesota
763-972-2981

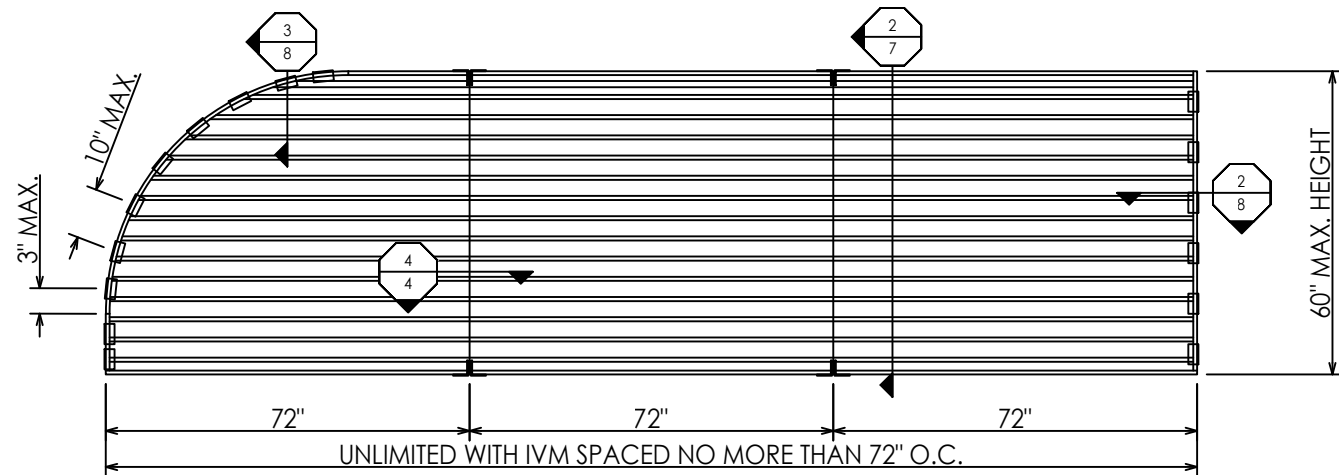


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No.	By	Description
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10	DG	UPDATED GENERAL NOTES TO REFERENCE 2023 FBC
11	DG	REVISED JAMB ANCHOR

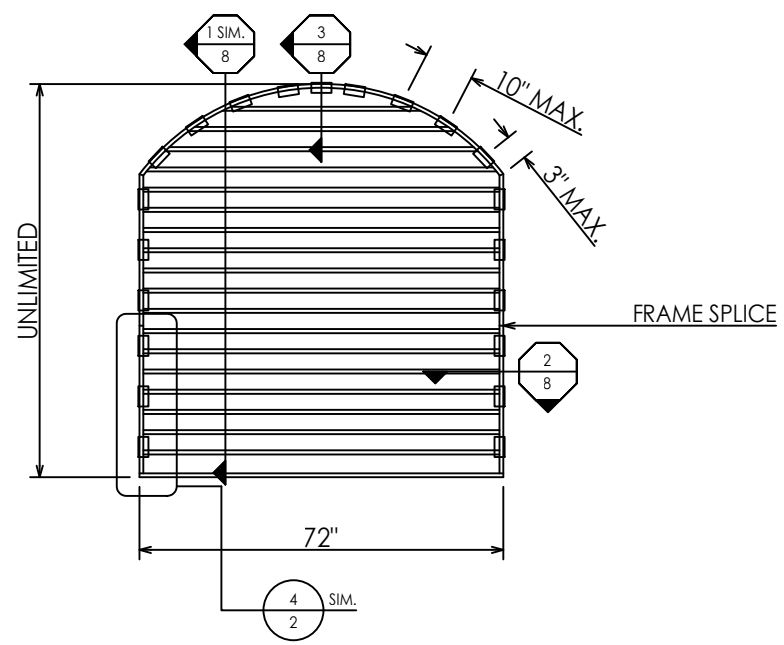
Date:	3/21/13
Drawn By:	DG
Checked By:	DM
Drawing No.	RD1032

Compliance Office Stamp

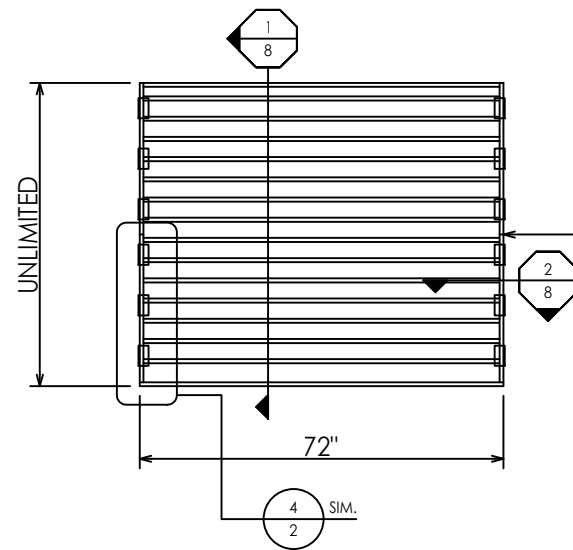
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **24-0213.04**
Expiration Date **07/10/2028**
By *[Signature]*
Miami-Dade Product Control



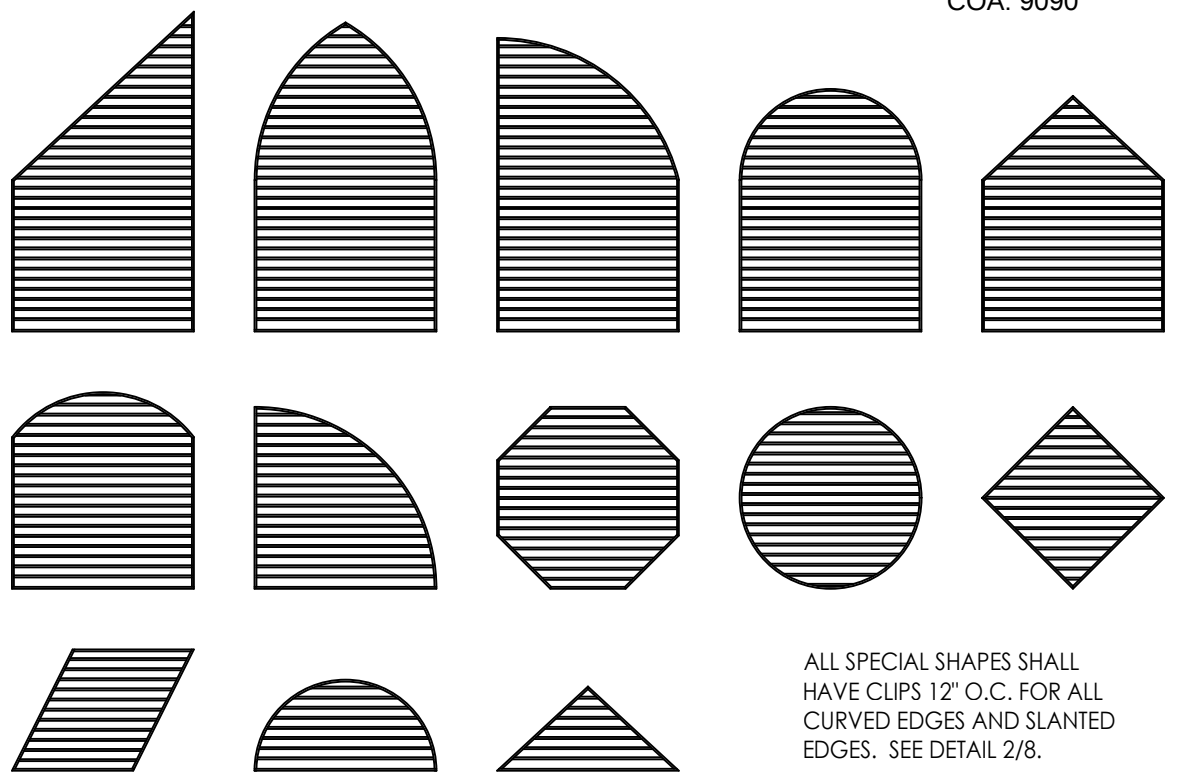
SPECIMEN #4
100 PSF DESIGN PRESSURE



SPECIMEN #6
120 PSF DESIGN PRESSURE



SPECIMEN #5
120 PSF DESIGN PRESSURE



APPROVED SPECIAL SHAPES
NOT TO SCALE

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

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

01/31/2024
COA: 9090

Industrial Louvers, Inc.
info@industriallouvers.com
www.industriallouvers.com
Delano, Minnesota
763-972-2981

SP537DC

5" Deep Storm Performance Dade County Approved Louver

No.	By	Description	Date
1	DG	REVISED PER 2017 FBC	04/15/14
2	DG	REVISED PER 2017 FBC	02/08/18
3	DG	REVISED PER 2017 FBC	09/20/21
4	DG	REVISED CLIP ANGLE SPACING	04/28/23
5	DG	REVISED GENERAL NOTES TO REFERENCE 2023 FBC	10/10/23
6	DG	REVISED JALZ ANCHOR	01/30/24

Date: 3/21/13
Drawn By: DG
Checked By: DM

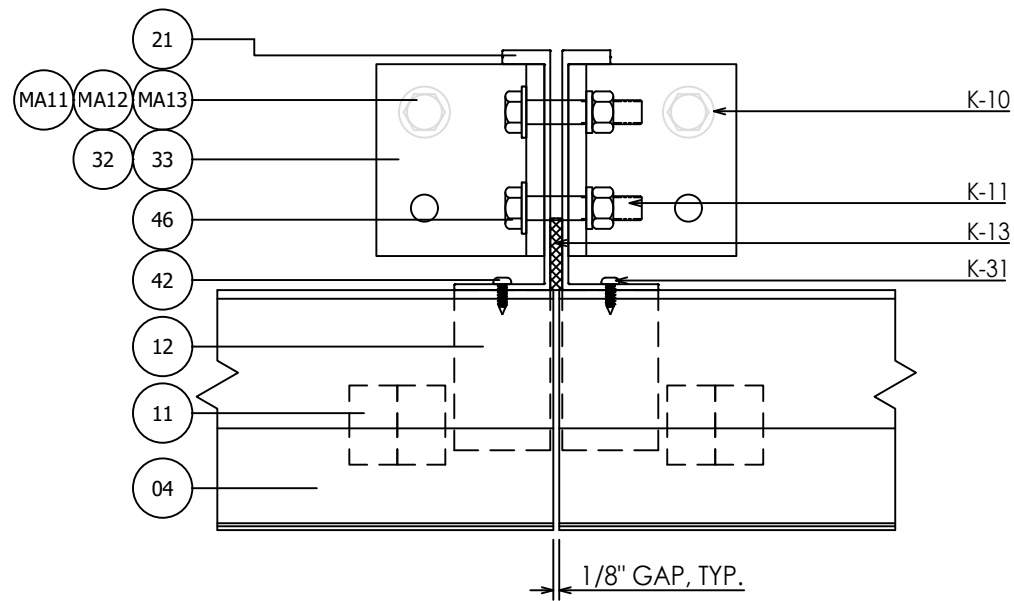
Drawing No. **RD1032**

Compliance Office Stamp

PRODUCT REVISED
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NOA-No. **24-0213.04**
Expiration Date **07/10/2028**

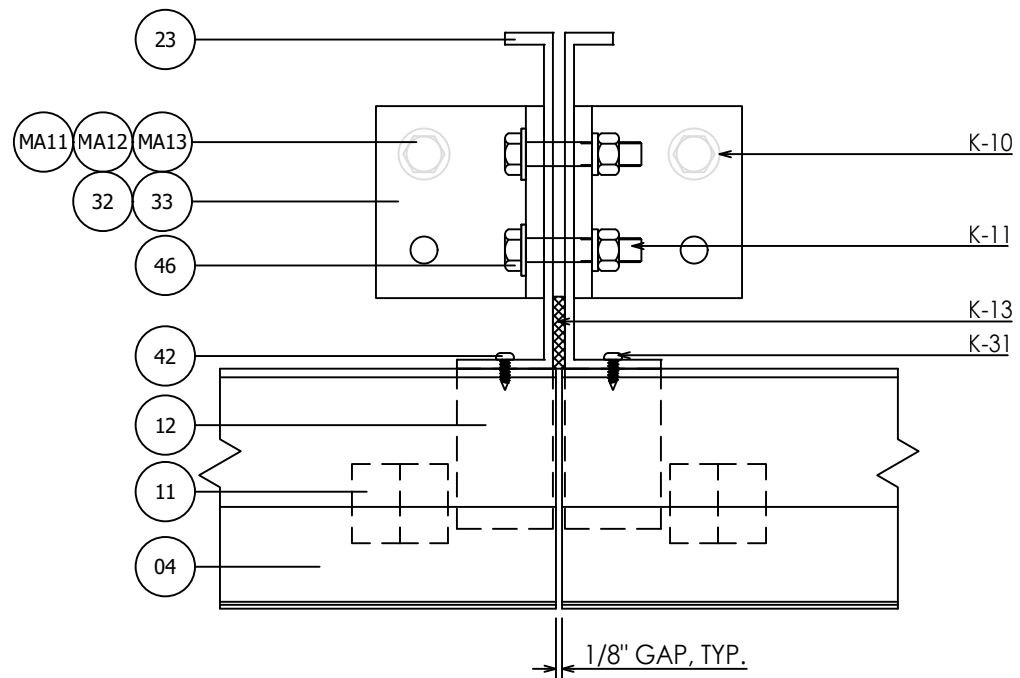
By
Miami-Dade Product Control

Sheet No.
3 Of 12



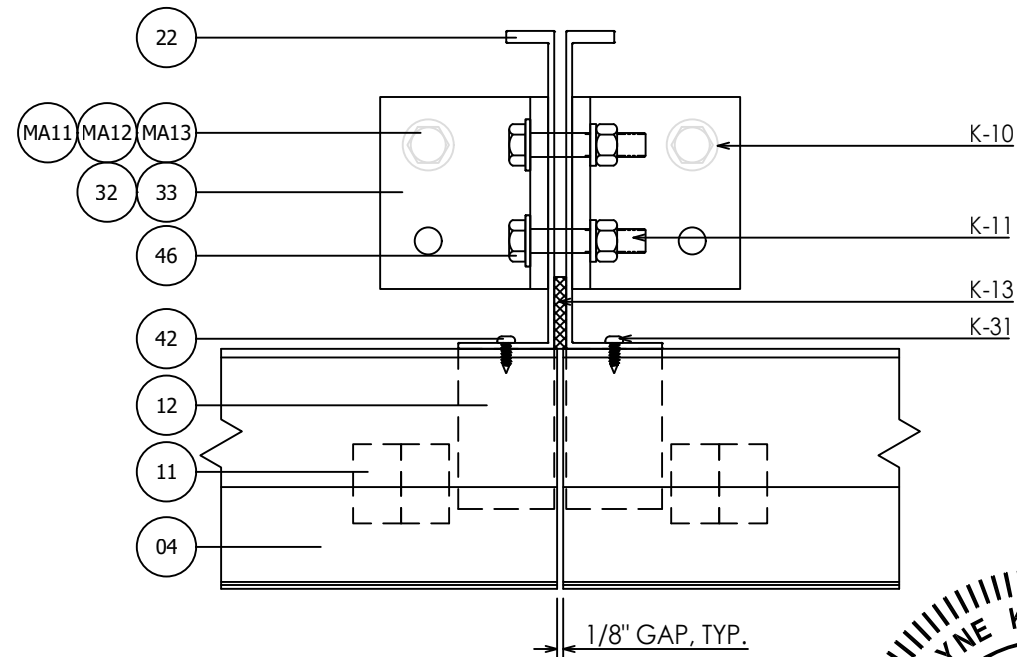
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MULLION #1, 5" CHANNEL
108" MAX SPAN



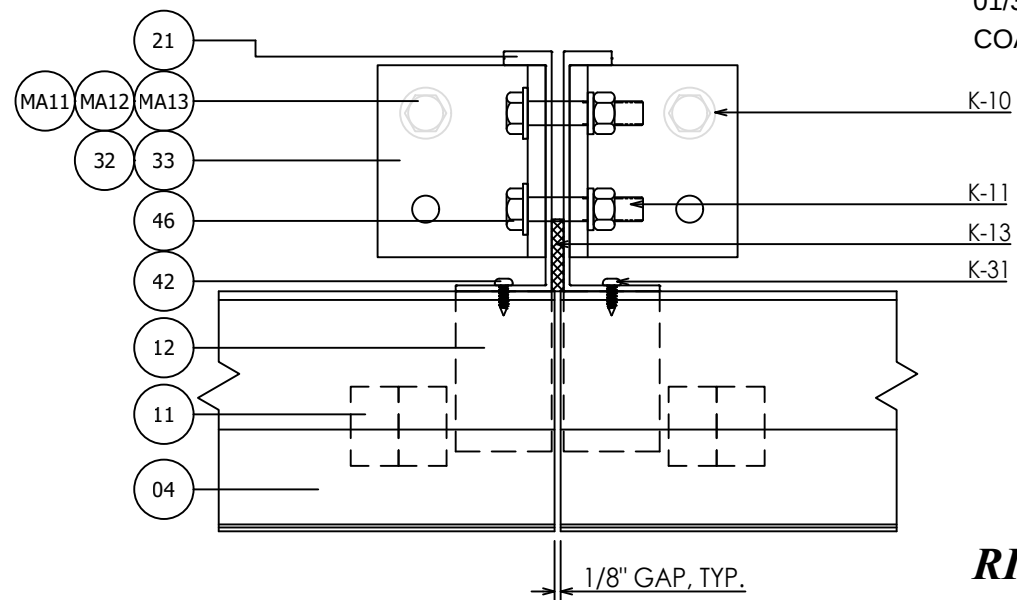
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MULLION #3, 7" CHANNEL
154" MAX SPAN



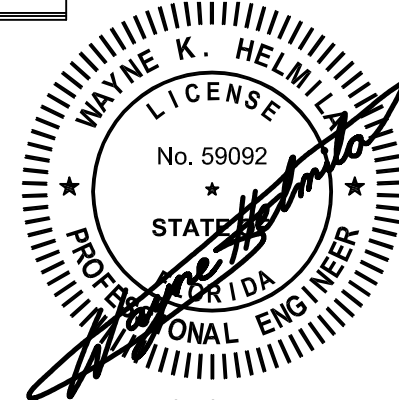
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MULLION #2, 6 5/8" CHANNEL
135" MAX SPAN



4
4

MULLION #4, 5" CHANNEL
60" MAX SPAN



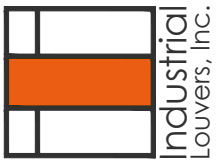
01/31/2024
COA: 9090

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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

Info@IndustrialLouvers.com
www.IndustrialLouvers.com
Delano, Minnesota
763-972-2981



SP537DC

5" Deep Storm Performance Dade County Approved Louver

No.	By	Description	Date
1	DG	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013	-
6	DG	UPDATED PER 2014 FBC	04/15/14
7	DG	UPDATED PER 2017 FBC. UPDATED PER AMCA 540 TESTING	02/08/18
8	DG	UPDATED PER 2020 FBC	09/20/21
9	DG	REVISED CLIP ANGLE SPACING	04/28/23
10	DG	UPDATED GENERAL NOTES TO REFERENCE 2023 FBC	10/10/23
11	DG	REVISED JALZ ANCHOR	01/30/24

Date: 3/21/13	Drawn By: DG	Checked By: DM	Drawing No. RD1032
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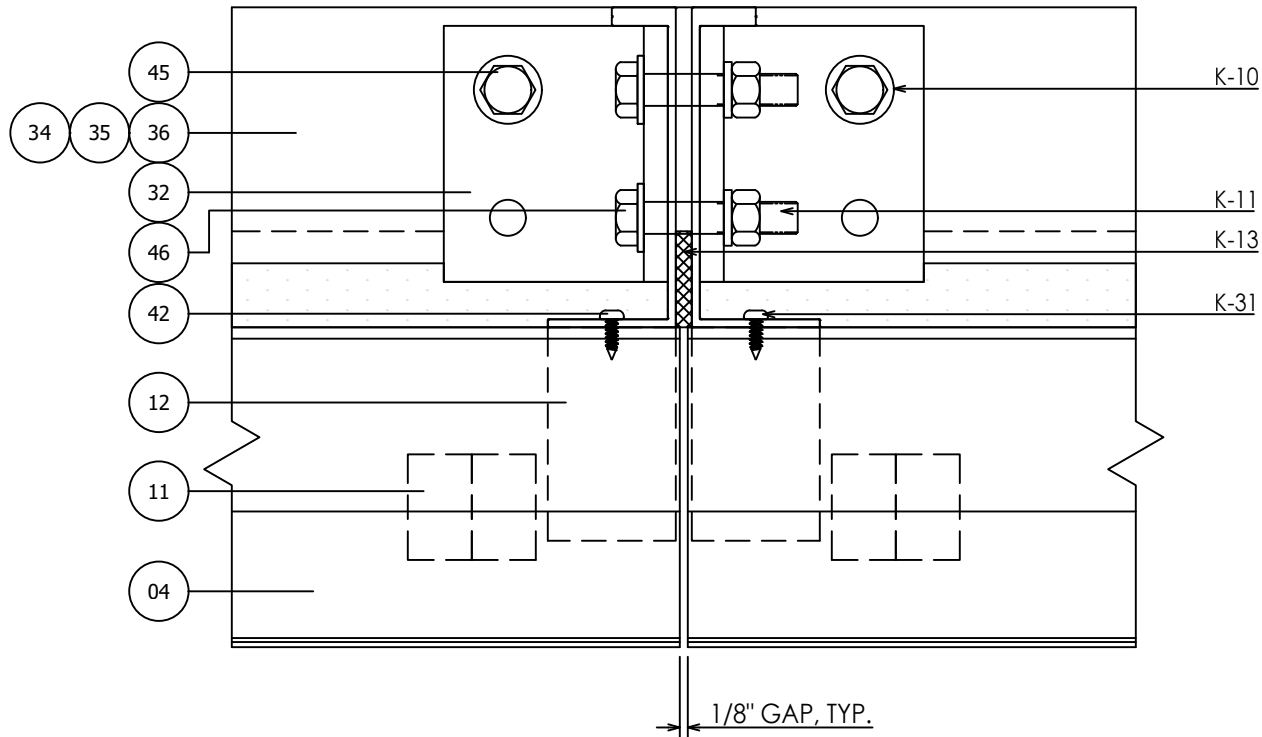
Compliance Office Stamp

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0213.04

Expiration Date **07/10/2028**

By *[Signature]*
Miami-Dade Product Control

Sheet No.
4 Of 12



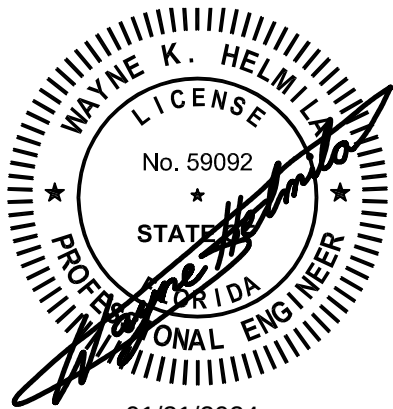
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PLAN DETAIL @ SHELF ANGLE

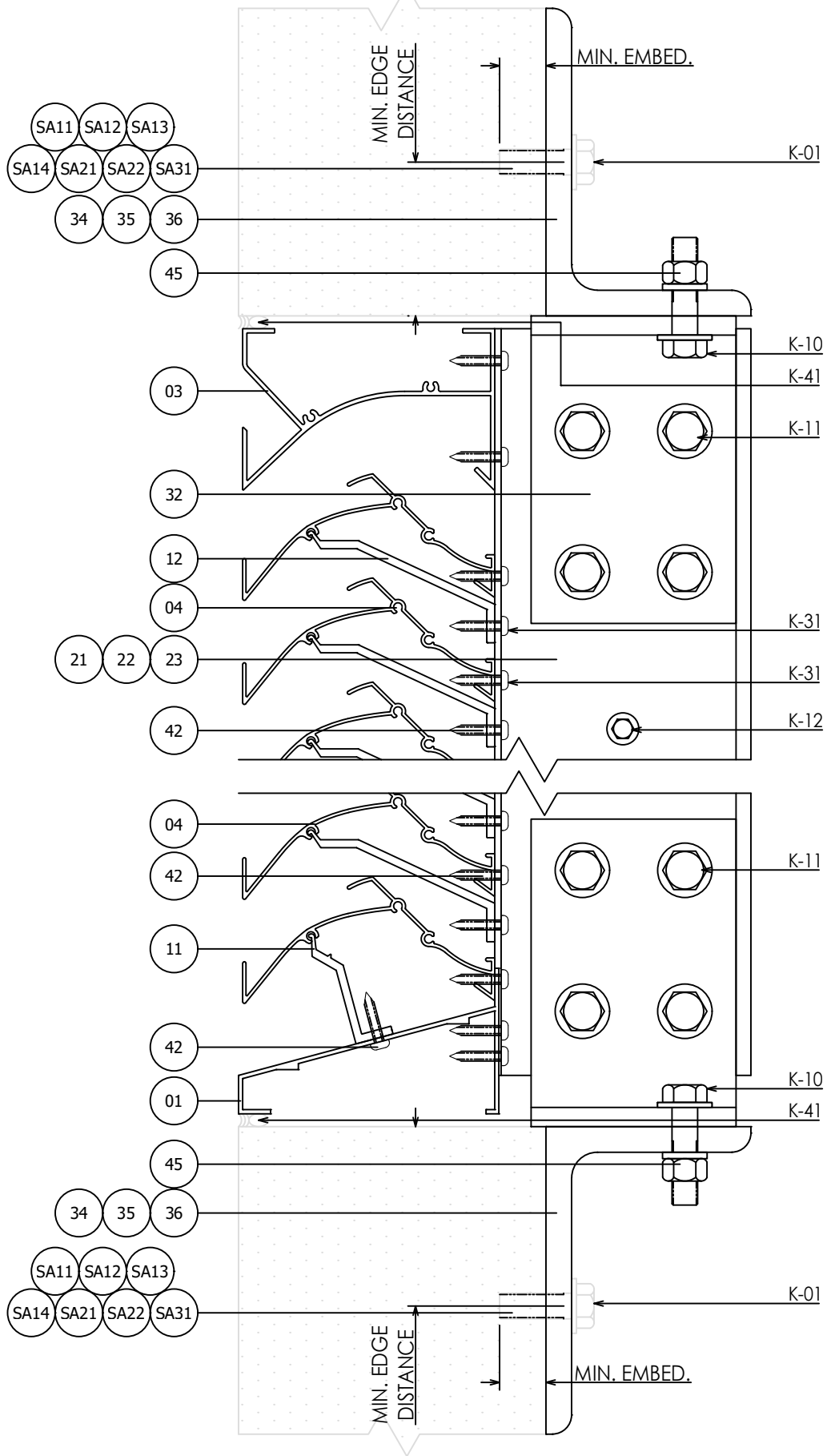
ALL MULLION TYPES SIMILAR

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2
5

VERTICAL SECTION W/ SHELF ANGLE

ALL MULLION TYPES SIMILAR

linfo@industriallouvers.com
www.industriallouvers.com
Delano, Minnesota
763-972-2981



SP537DC

5" Deep Storm Performance Dade County Approved Louver

Revisions	
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1 - 5	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013
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8	DG UPDATED PER 2020 FBC
9	DG REVISED CLIP ANGLE SPACING
10	DG UPDATED GENERAL NOTES TO REFERENCE 2023 FBC
11	DG REVISED JAL12 ANCHOR

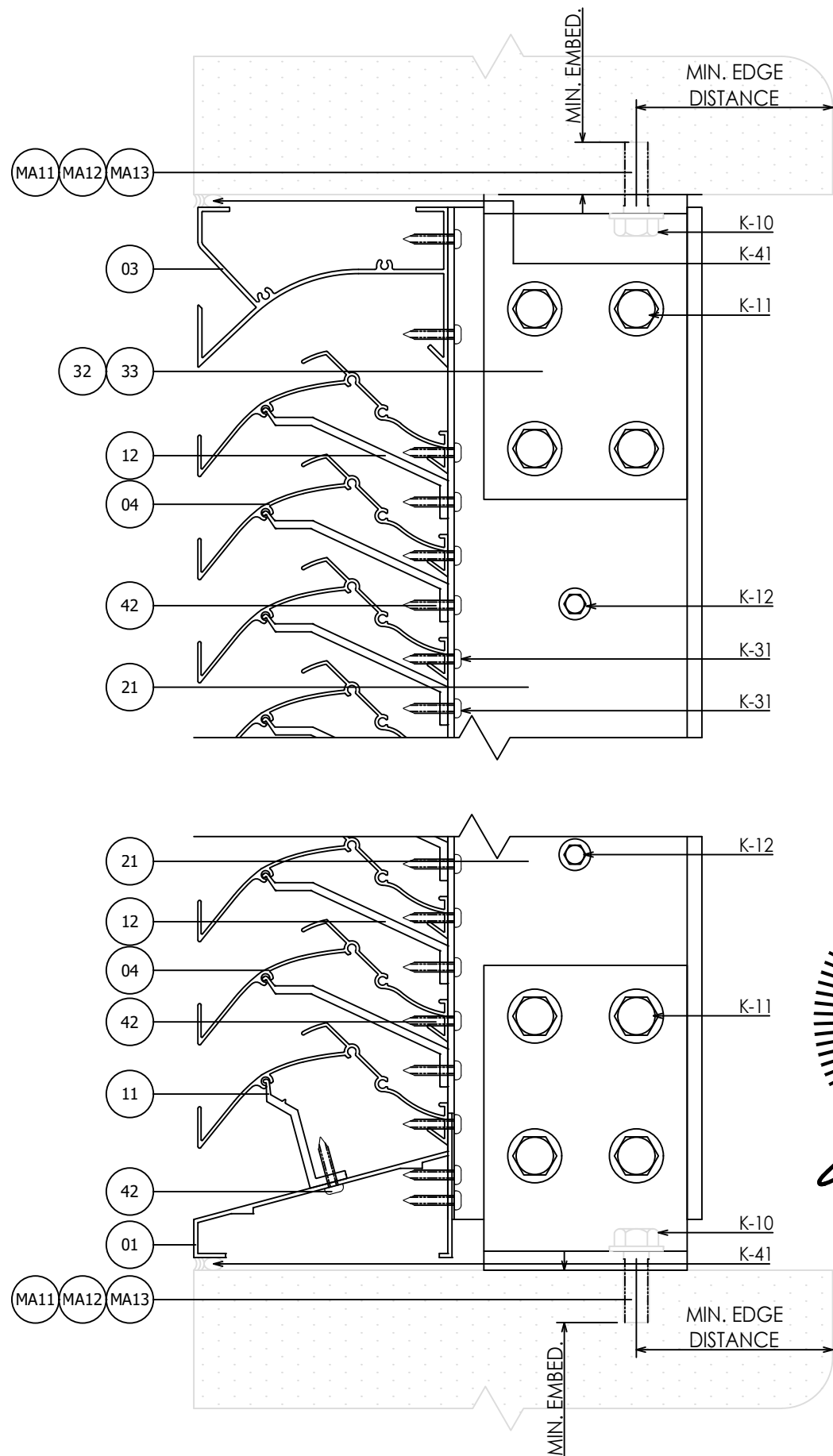
Date: 3/21/13	Drawn By: DG	Checked By: DM	Drawing No. RD1032
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Compliance Office Stamp

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NOA-No. 24-0213.04
Expiration Date 07/10/2028

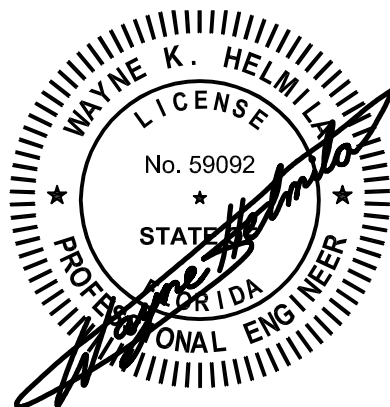
By
Miami-Dade Product Control

VERTICAL SECTION SPECIMEN #1
@ IVM W/ 5" CHANNEL SUPPORTS



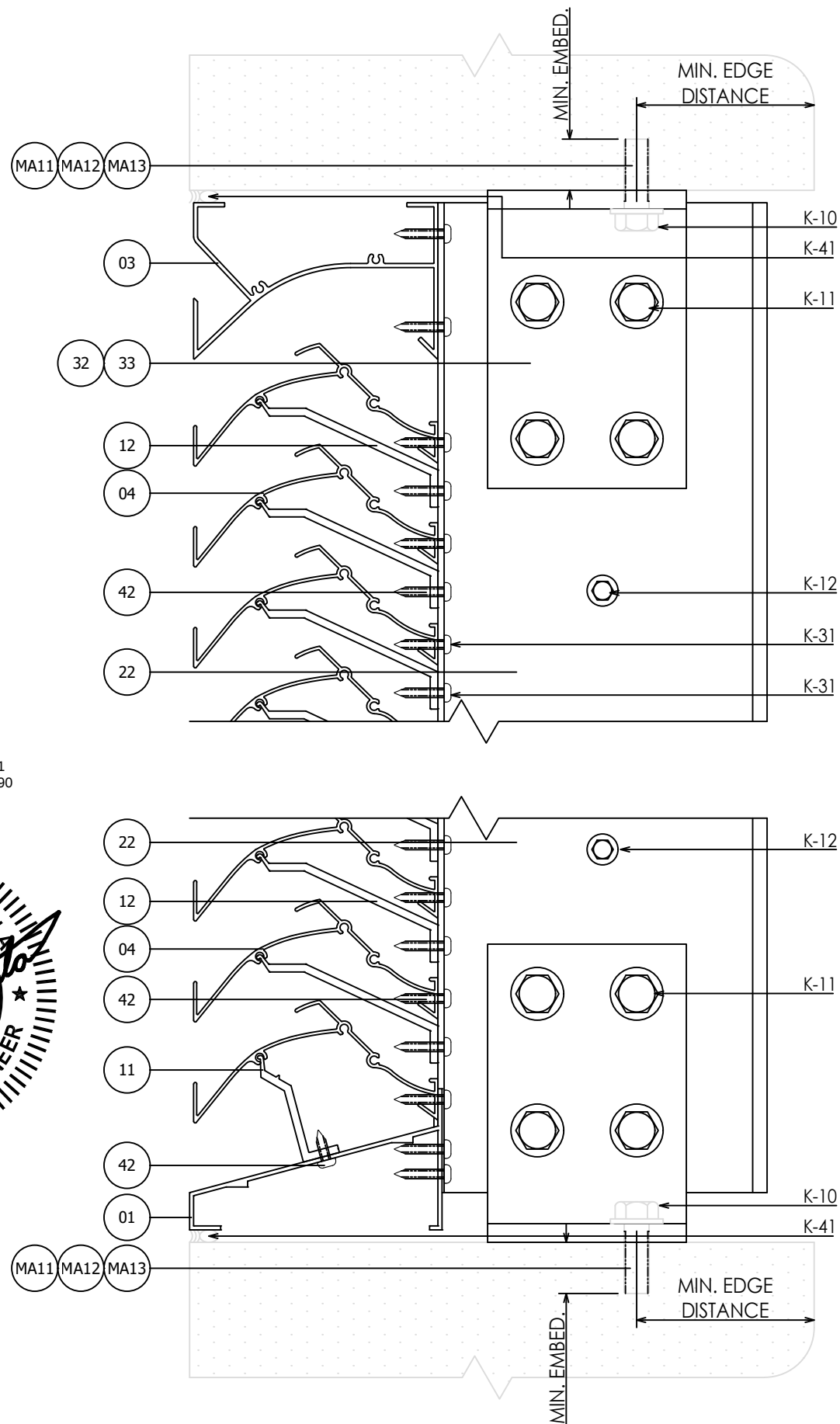
RICE
ENGINEERING
105 School Creek Trail
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Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com

Florida Firm No: F-01000005061
Certificate of Authorization: #9090
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Registration No: 59092



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VERTICAL SECTION SPECIMEN #2
@ IVM W/ 6 5/8" CHANNEL SUPPORTS



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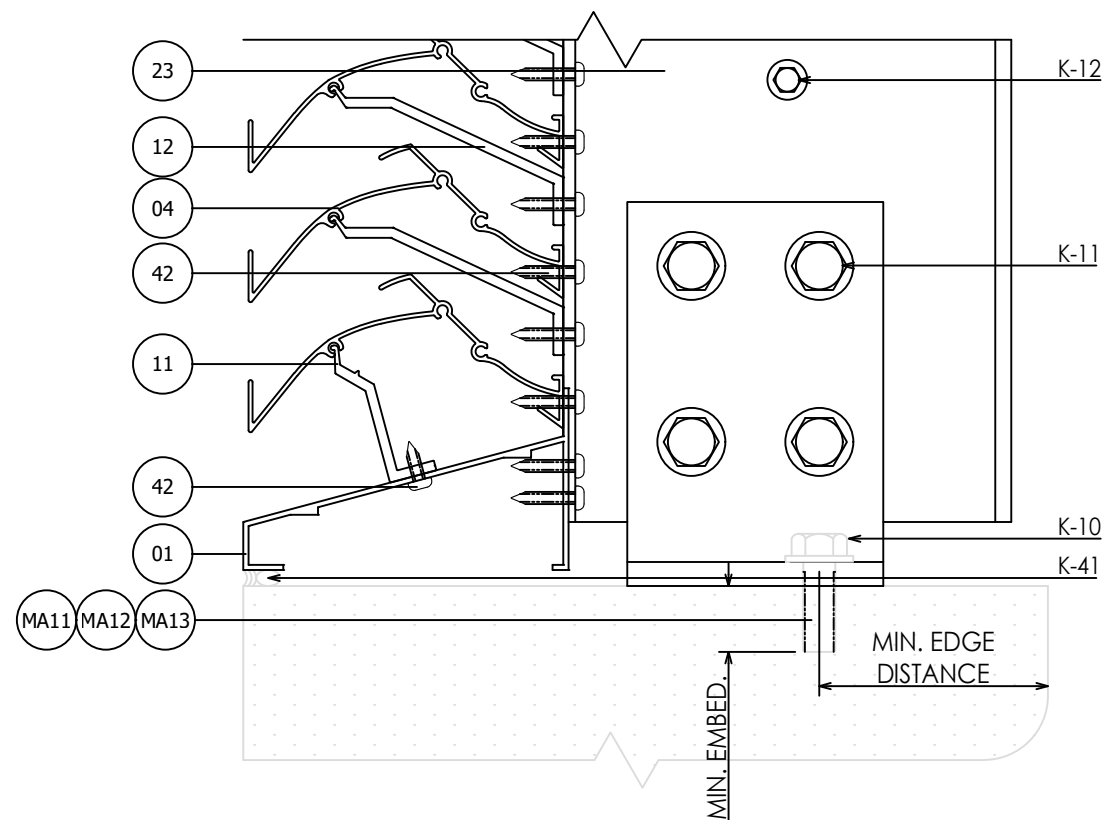
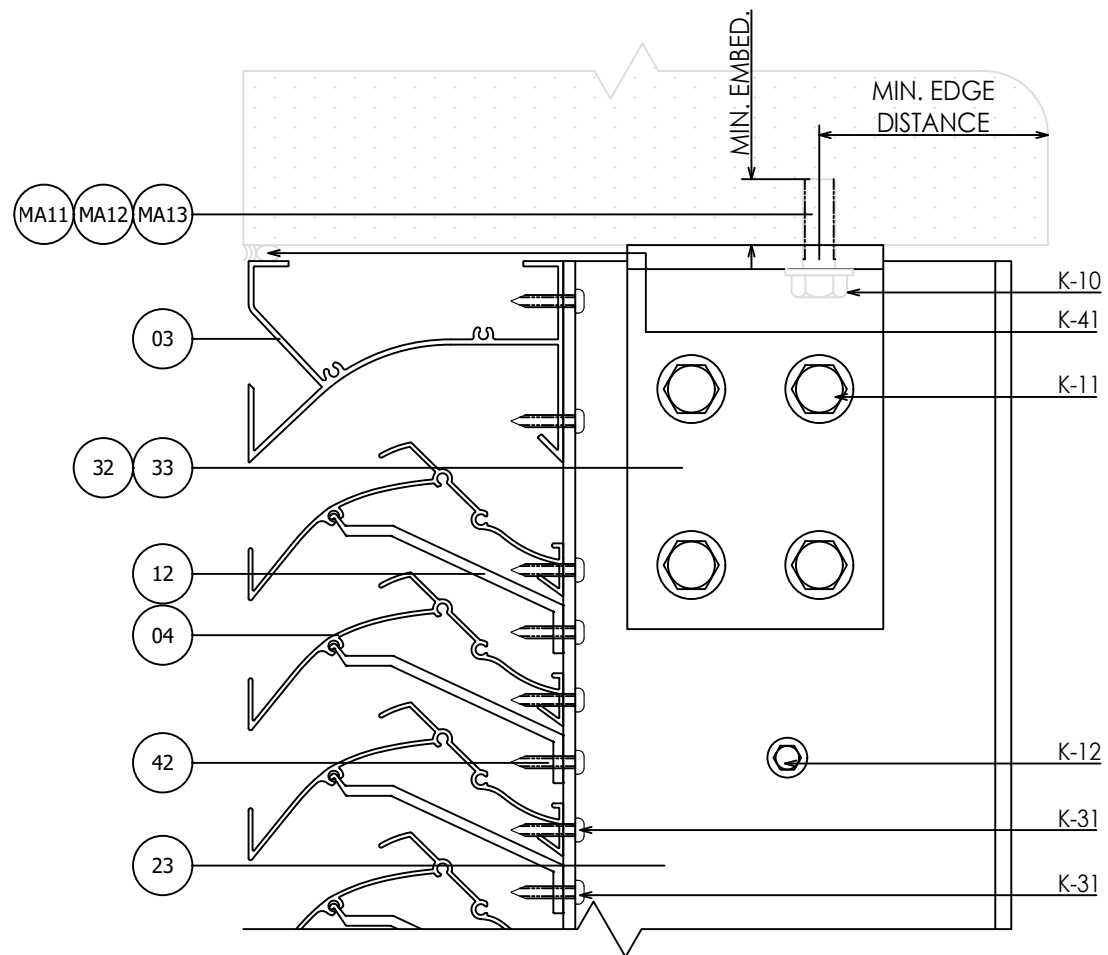
5" Deep Storm Performance Dade County Approved Louver

Revisions	
No.	Description
1-5	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013
6	DG UPDATED PER 2014 FBC
7	DG UPDATED PER 2017 FBC
8	DG UPDATED PER 2020 FBC
9	DG REVISED CLIP ANGLE SPACING
10	DG UPDATED GENERAL NOTES TO REFERENCE 2023 FBC
11	DG REVISED JALZ ANCHOR

Date: 3/21/13	Drawn By: DG	Checked By: DM	Drawing No. RD1032
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Compliance Office Stamp

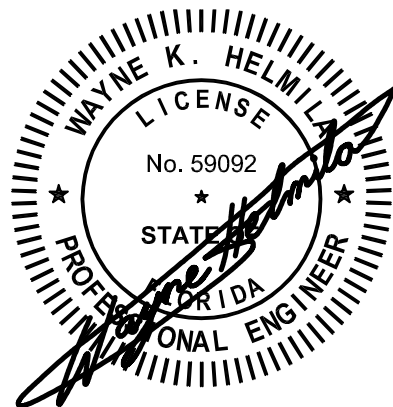
PRODUCT REVISED
as complying with the Florida
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NOA-No. **24-0213.04**
Expiration Date **07/10/2028**
By 
Miami-Dade Product Control



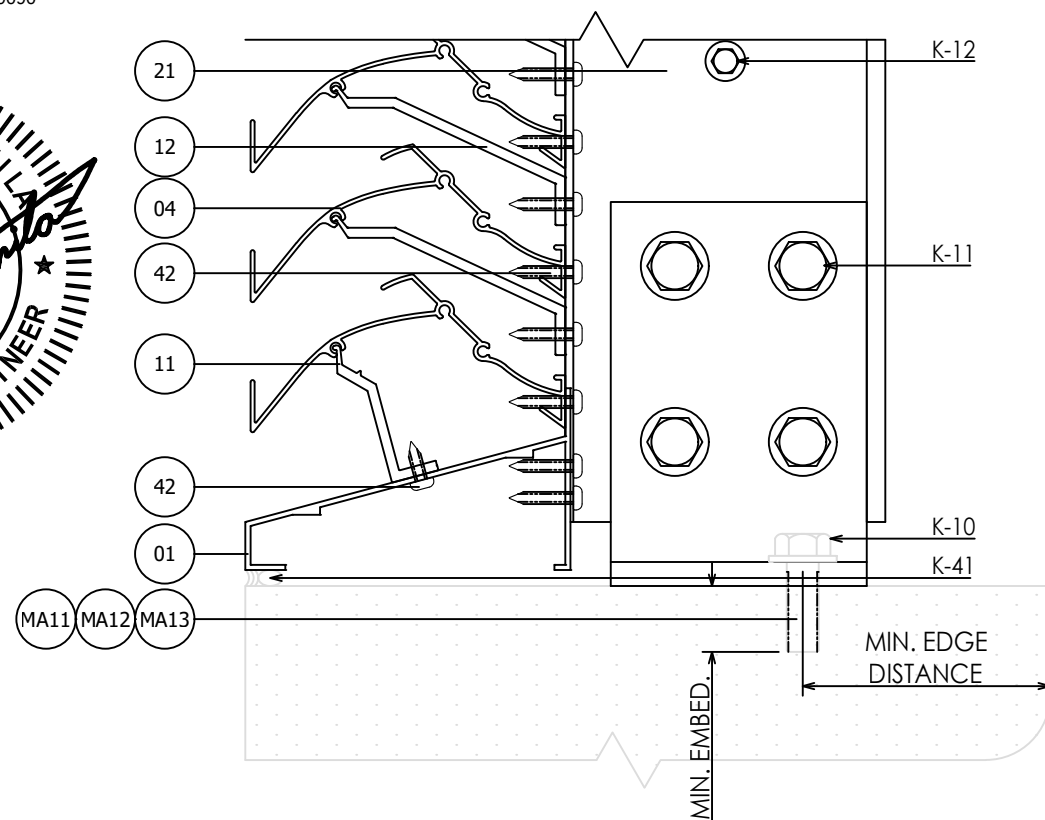
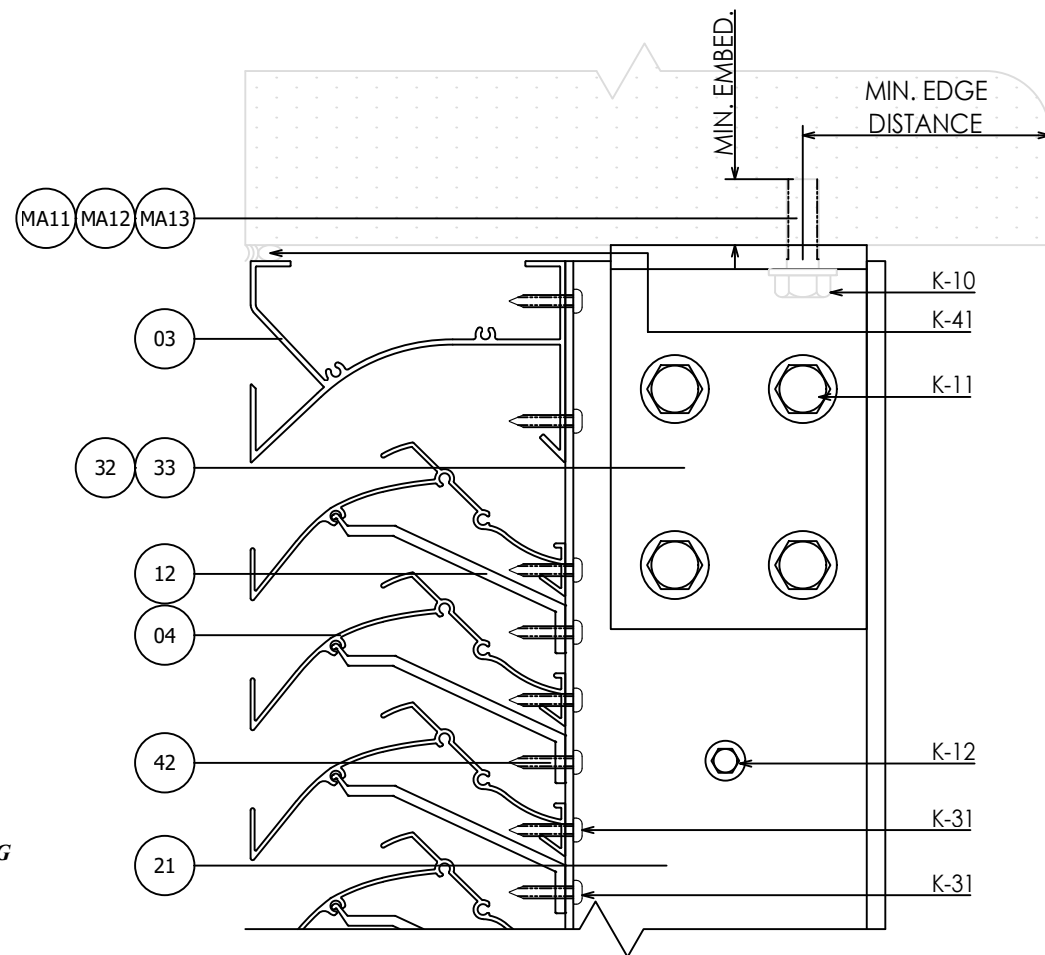
VERTICAL SECTION SPECIMEN #3
@ IVM W/ 7" CHANNEL SUPPORTS

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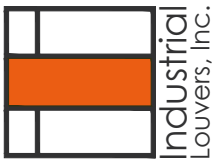


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COA: 9090



VERTICAL SECTION SPECIMEN #4
@ IVM W/ 5" CHANNEL SUPPORTS

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5" Deep Storm Performance Dade County Approved Louver

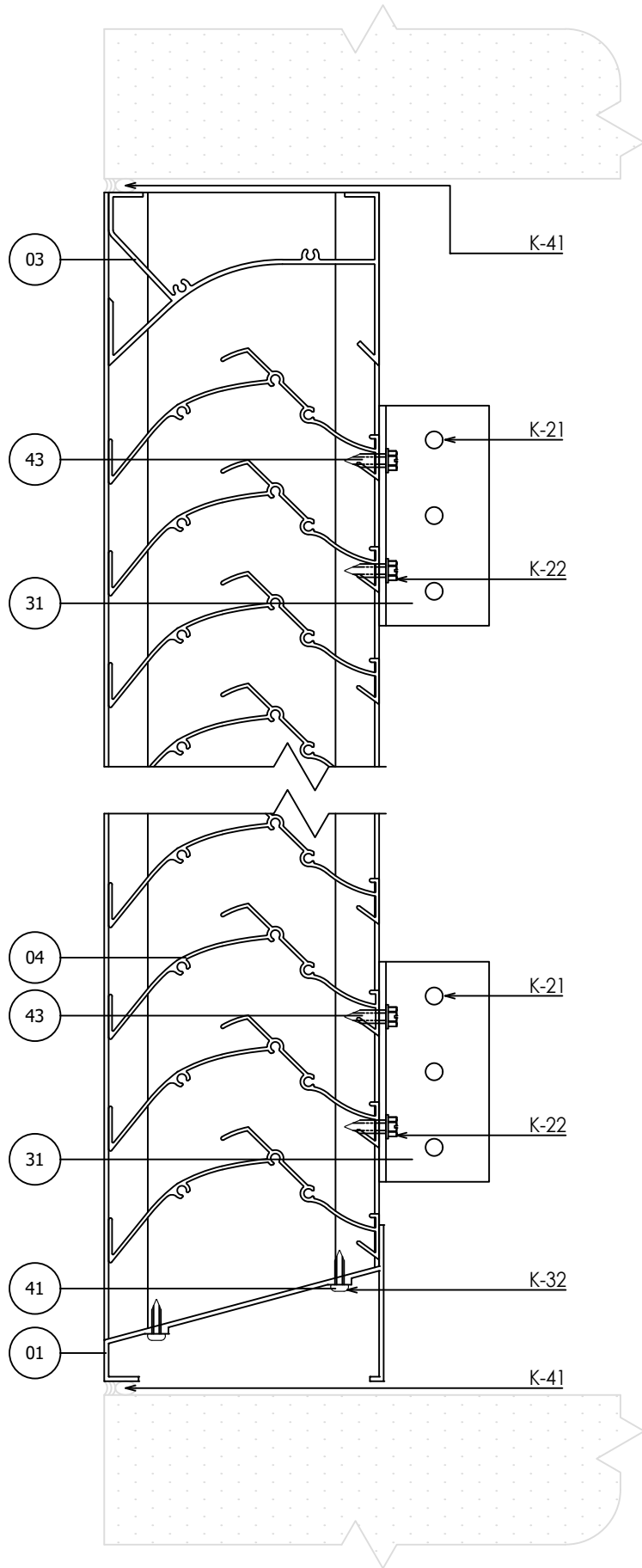
Revisions	
No.	Description
1-5	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013
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11	DG REVISED JALZ ANCHOR

Date: 3/21/13	Drawn By: DG	Checked By: DM	Drawing No. RD1032
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Compliance Office Stamp

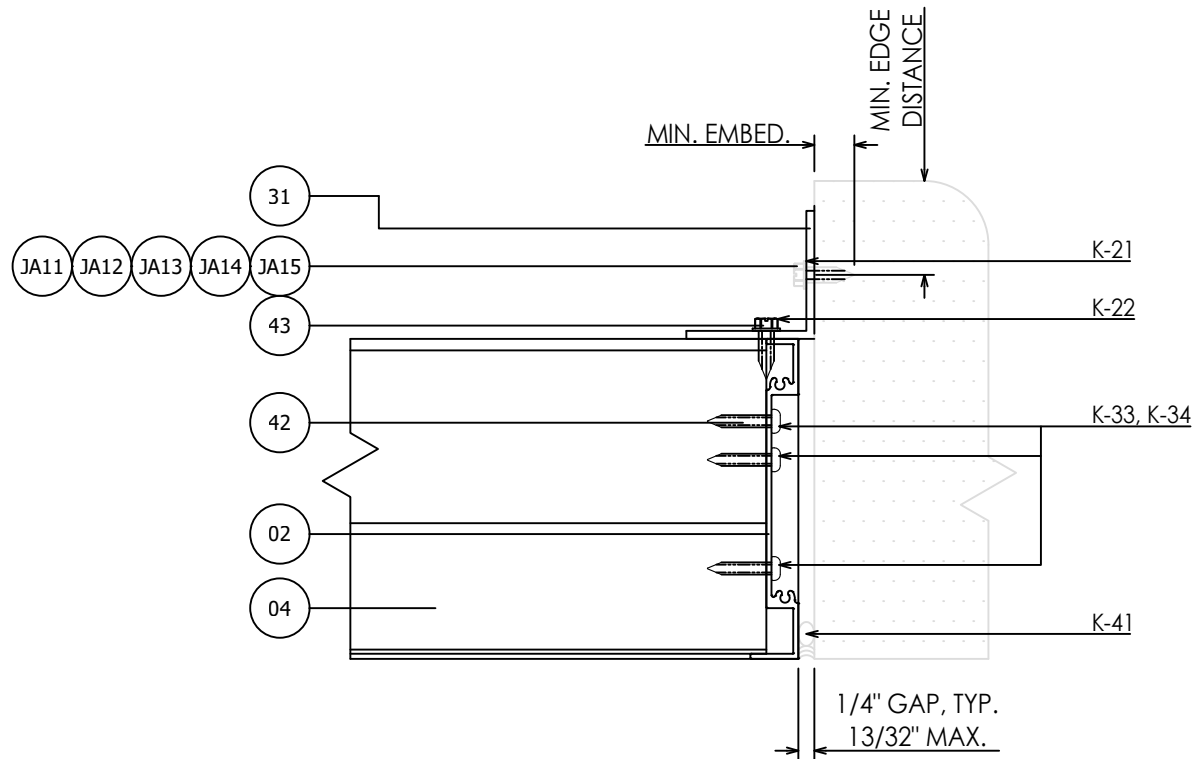
PRODUCT REVISED
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NOA-No. 24-0213.04
Expiration Date 07/10/2028

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Miami-Dade Product Control



VERTICAL SECTION SPECIMEN #5

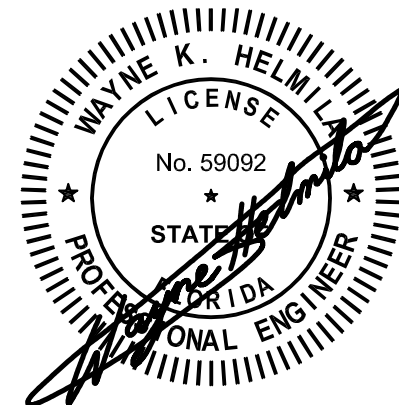
SIMILAR AT ALL JAMBS



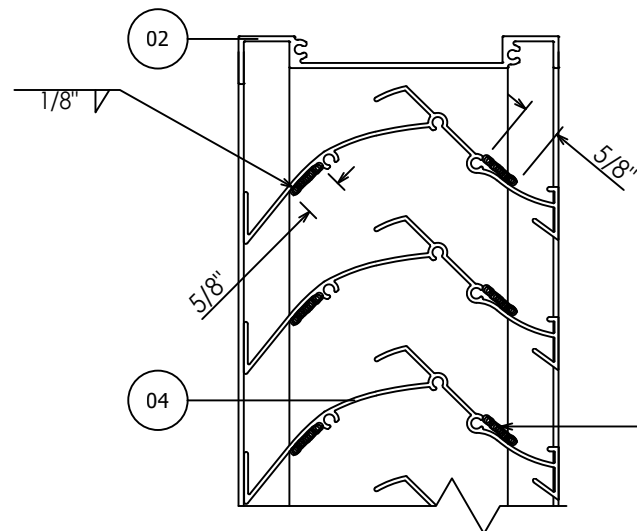
JAMB PLAN DETAIL

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Wayne K. Helmila
Registration No: 59092



01/31/2024
COA: 9090



NOTE:
LOUVER BLADES, TOP FRAME, AND/OR
BOTTOM FRAME MUST BE WELDED TO JAMB
FRAMES IN LIEU OF MECHANICAL
FASTENERS AT ALL JAMBS THAT ARE NOT
NORMAL TO THE BLADE AXIS.

SECTION @ SHAPED LOUVER

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763-972-2981



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5" Deep Storm Performance Dade County Approved Louver

No.	By	Description	Date
1	5	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013	-
6	DG	UPDATED PER 2014 FBC	04/15/14
7	DG	UPDATED PER 2017 FBC	02/08/18
8	DG	UPDATED PER 2020 FBC	09/20/21
9	DG	REVISED CLIP ANGLE SPACING	04/28/23
10	DG	UPDATED GENERAL NOTES TO REFERENCE 2023 FBC	10/10/23
11	DG	REVISED JA12 ANCHOR	01/30/24

Date:	3/21/13	Drawn By:	DG	Checked By:	DM	Drawing No.	RD1032
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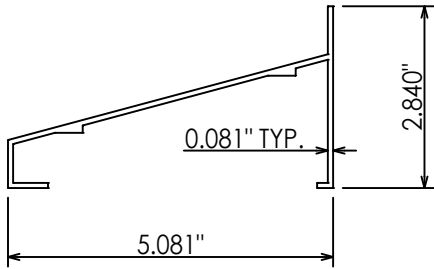
PRODUCT REVISED
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Expiration Date 07/10/2028

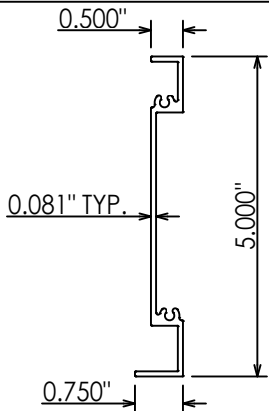
By 
Miami-Dade Product Control

Sheet No.
8 Of 12

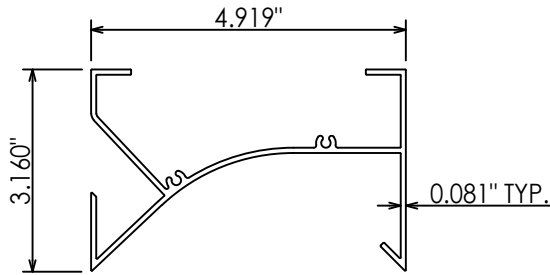
01 LOUVER BOTTOM FRAME



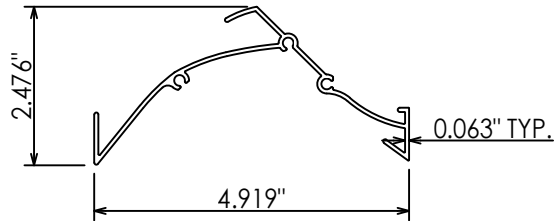
02 LOUVER SIDE FRAME



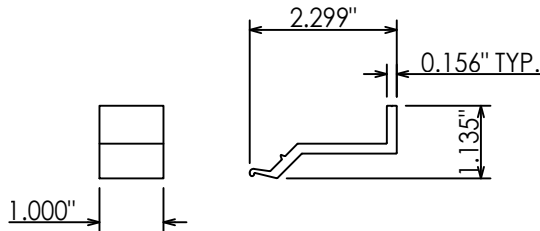
03 LOUVER TOP FRAME



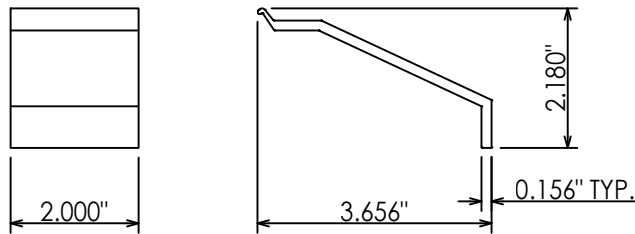
04 LOUVER BLADE



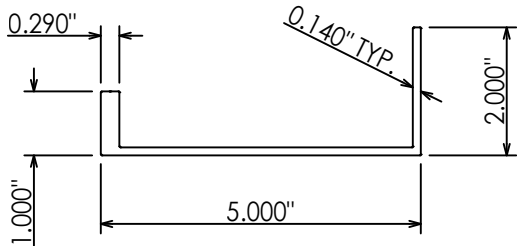
11 BLADE BRACE, BOTTOM BLADE, 1" LONG



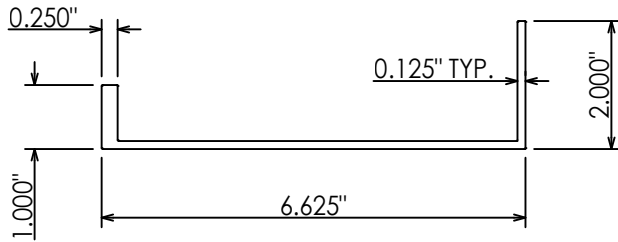
12 BLADE BRACE, TYPICAL, 2" LONG



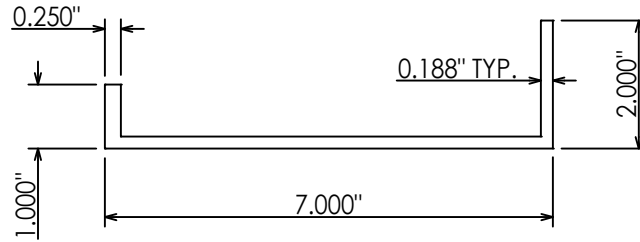
21 1" X 5" X 2" X 1/8" CHANNEL



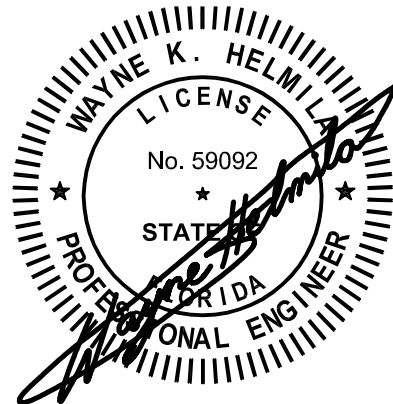
22 1" X 6 5/8" X 2" X 1/8" CHANNEL



23 1" X 7" X 2" X 3/16" CHANNEL



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Certificate of Authorization: #9090
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Registration No: 59092



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COA: 9090

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www.IndustrialLouvers.com
Delano, Minnesota
763-972-2981



SP537DC
5" Deep Storm Performance Dade County Approved Louver

Revisions	
No.	Description
1 - 5	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013
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11	DG REVISED JALZ ANCHOR

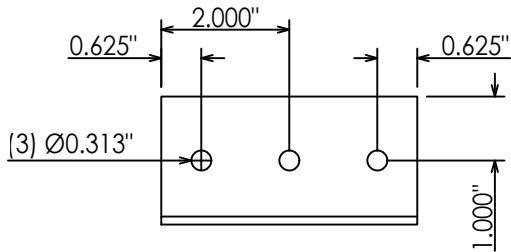
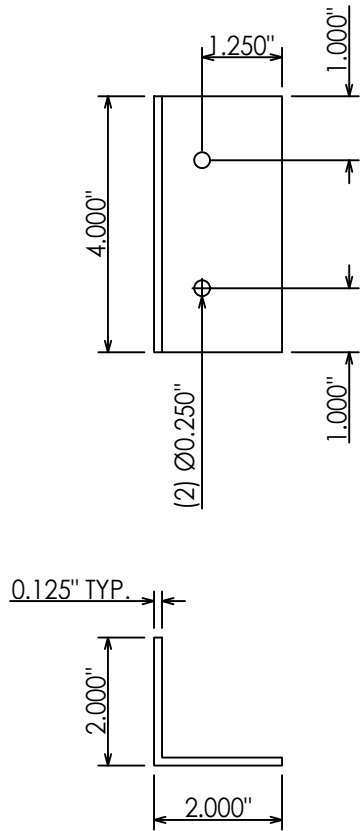
Date:	3/21/13
Drawn By:	DG
Checked By:	DM
Drawing No.	RD1032

Compliance Office Stamp

PRODUCT REVISED
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By
Miami-Dade Product Control

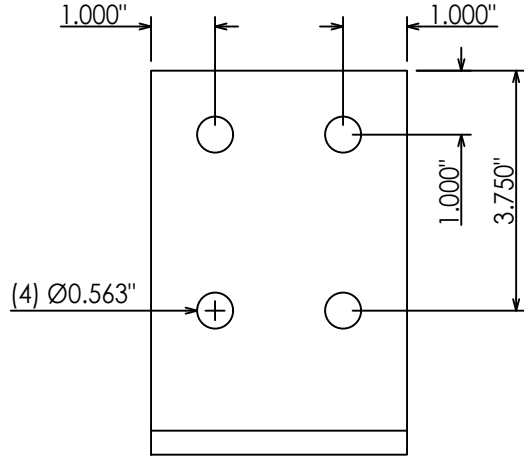
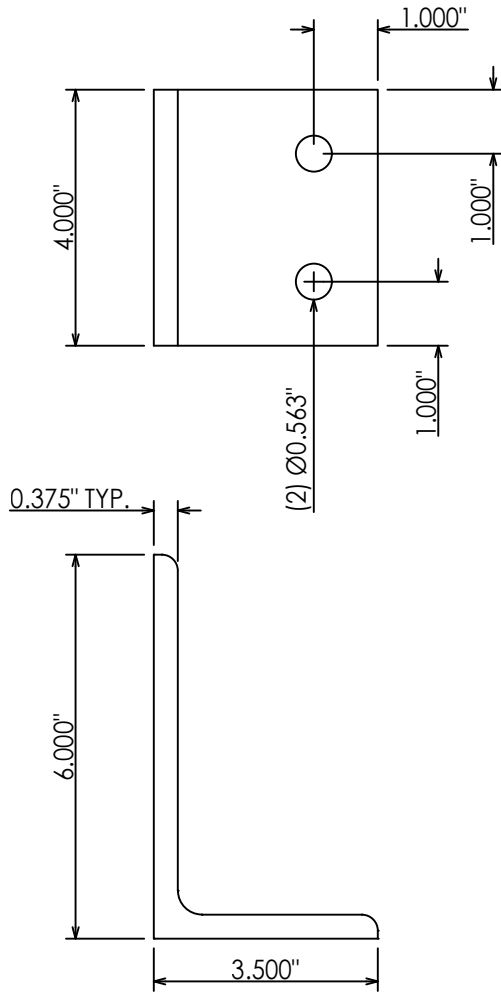
31

4" LONG 2" X 2" X 1/8" CLIP ANGLE

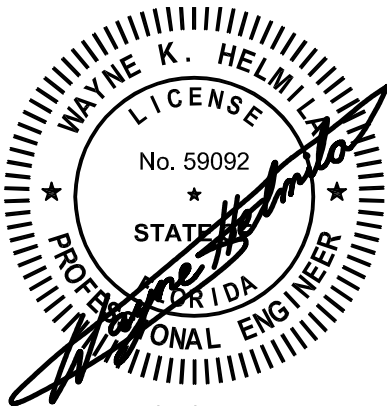


32

4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE

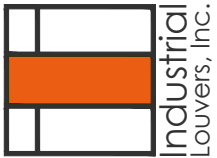


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COA: 9090

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763-972-2981



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5" Deep Storm Performance Dade County Approved Louver

Revisions	
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1 - 5	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013
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10	DG UPDATED GENERAL NOTES TO REFERENCE 2023 FBC
11	DG REVISED JALZ ANCHOR

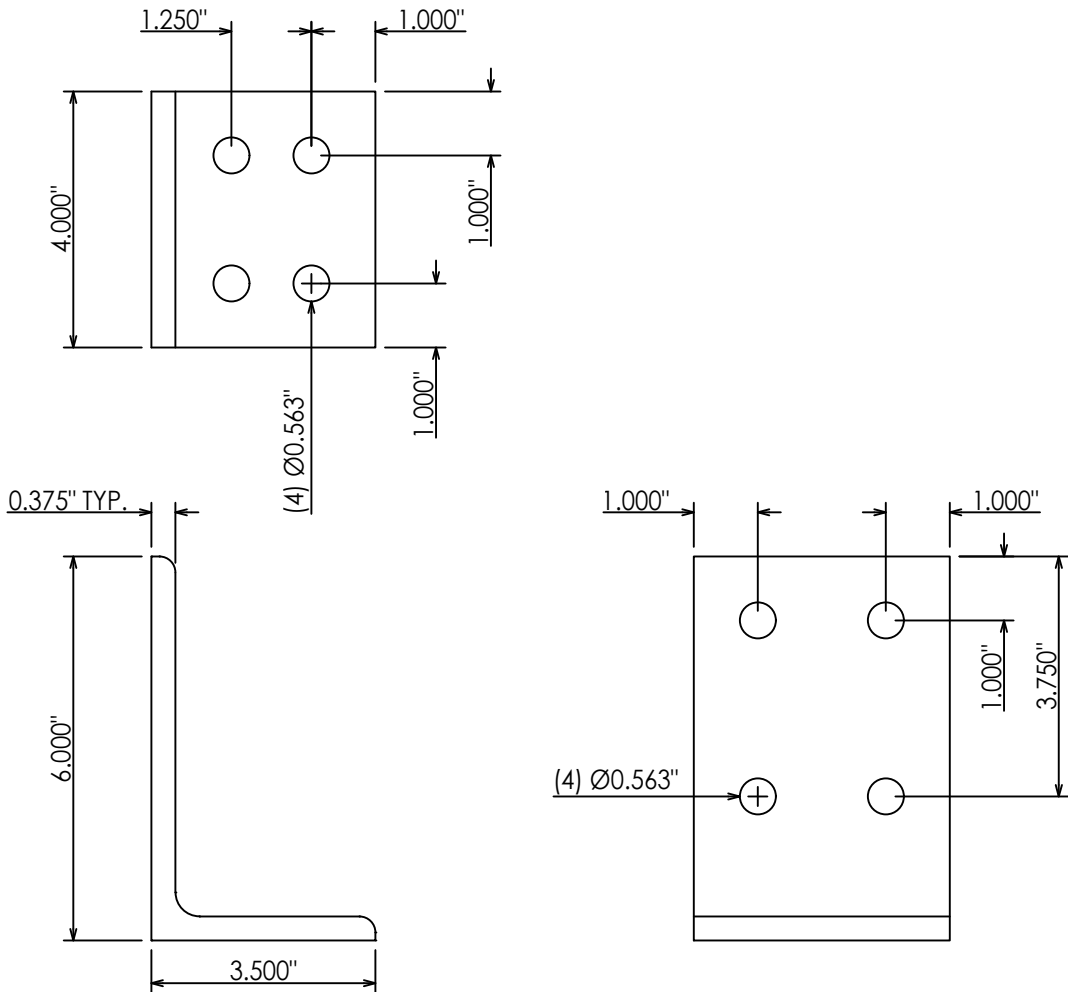
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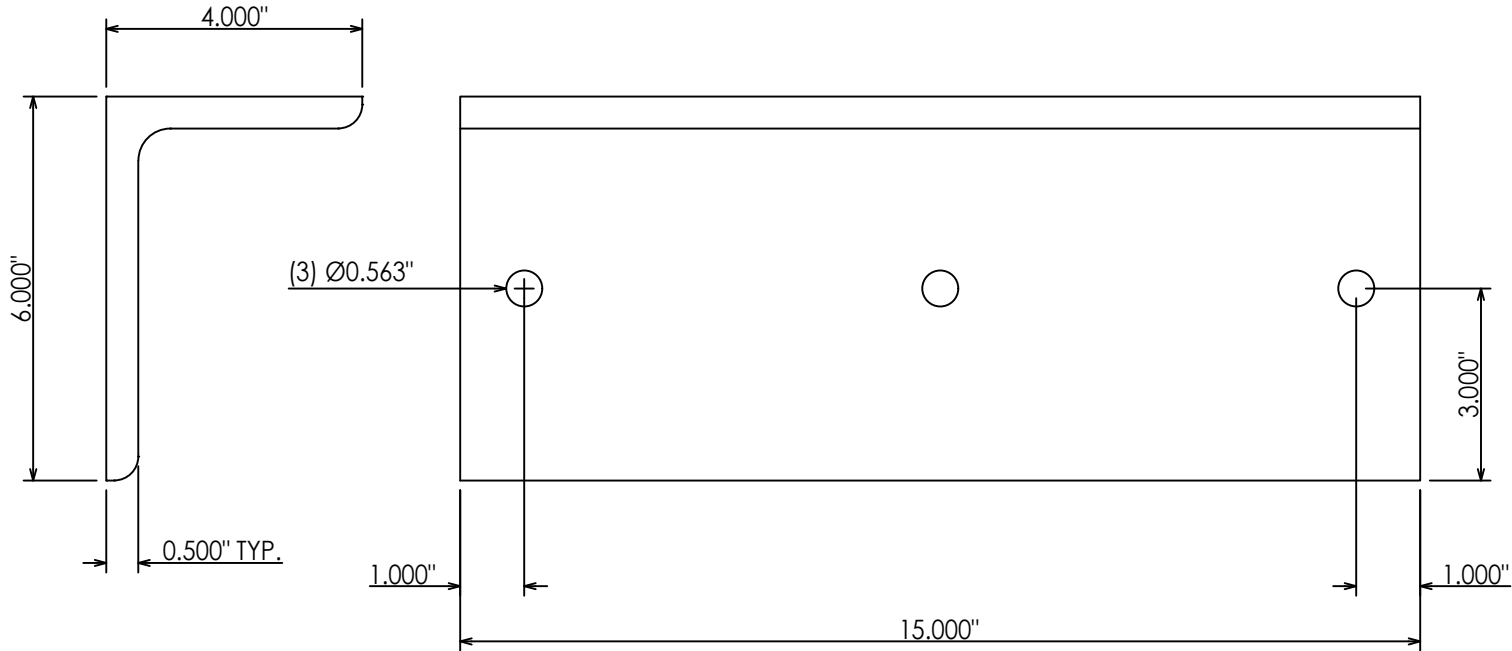
33

4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE



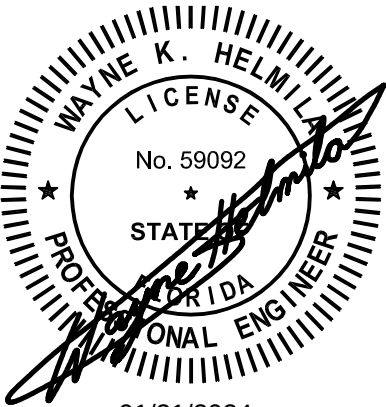
34

15" LONG 4" X 6" X 1/2" SHELF ANGLE



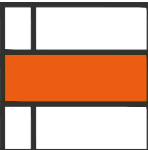
RICE
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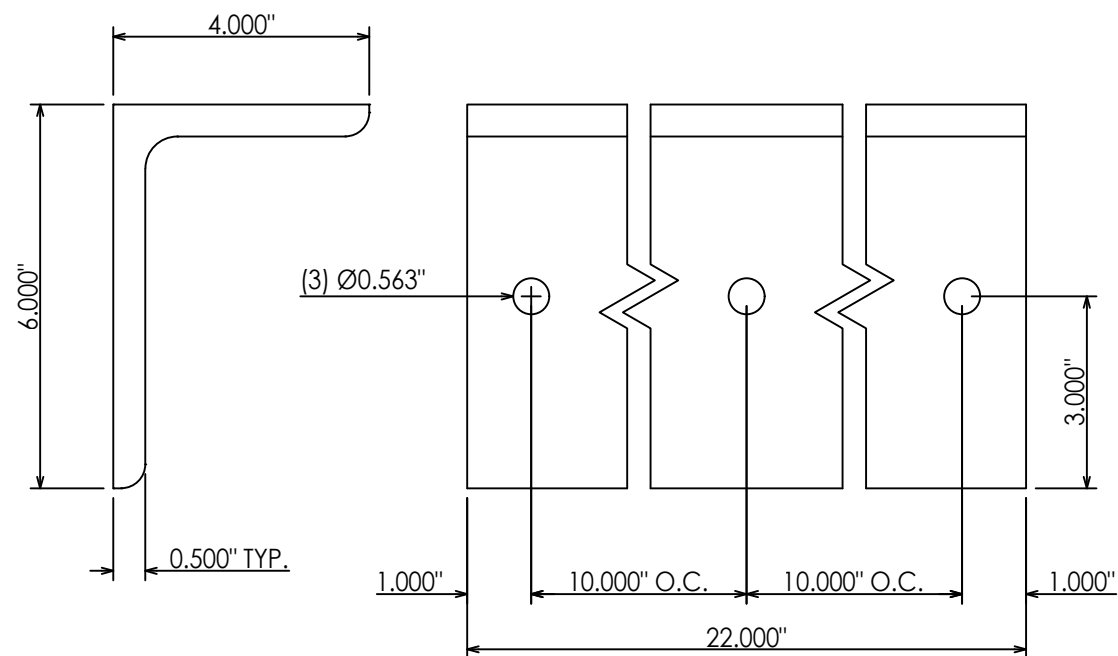
Revisions	
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1-5	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013
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7	DG UPDATED PER 2017 FBC
8	DG UPDATED PER 2020 FBC
9	DG REVISED CLIP ANGLE SPACING
10	DG UPDATED GENERAL NOTES TO REFERENCE 2023 FBC
11	DG REVISED JALZ ANCHOR

Revisions	
No.	Date
1-5	-
6	04/15/14
7	02/08/18
8	09/20/21
9	04/28/23
10	10/10/23
11	01/30/24

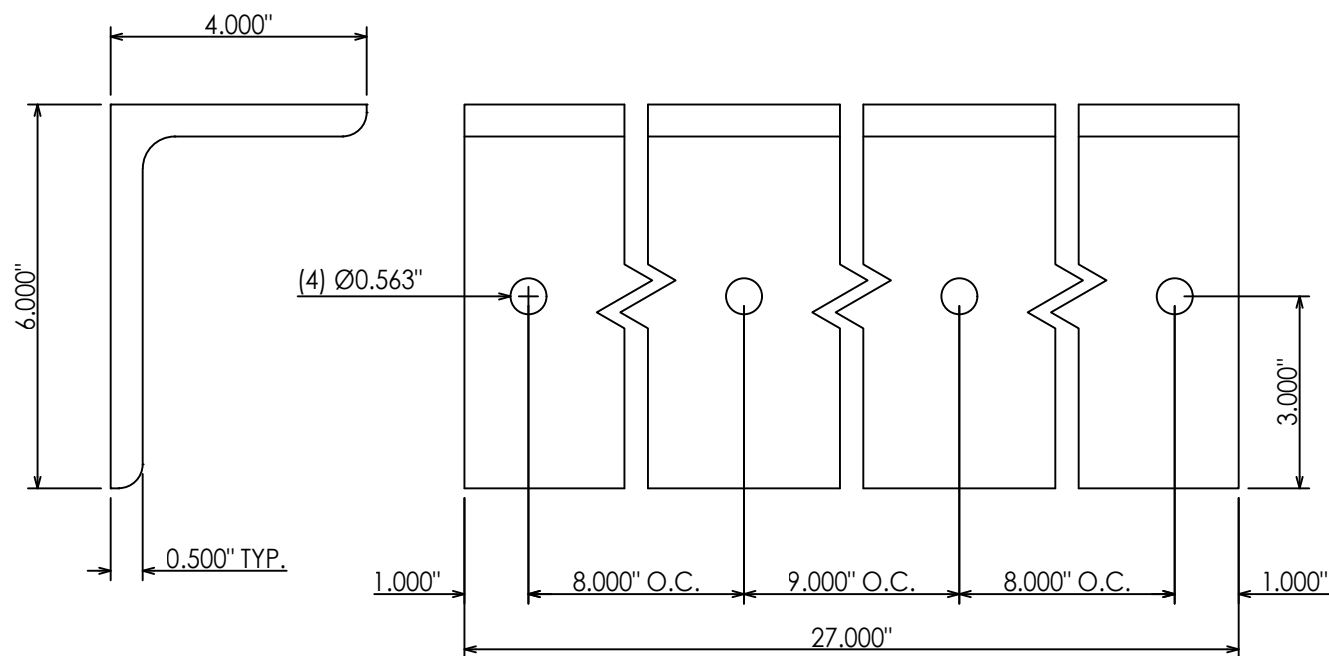
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35 22" LONG 4" X 6" X 1/2" SHELF ANGLE



36 27" LONG 4" X 6" X 1/2" SHELF ANGLE

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COA: 9090



41 #8 X 5/8" SD PH SM SCREW



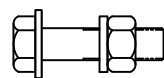
42 #10 X 1" SD PH SM SCREW



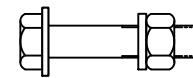
43 #12 X 1" SL HWH SM SCREW



44 1/4"-20 X 1" HH BOLT

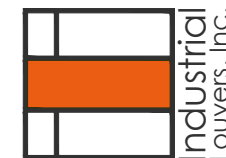


45 1/2"-13 X 2" HH BOLT



46 1/2"-13 X 2 1/2" HH BOLT

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763-972-2981



Revisions	
No.	Description
1-5	REVISIONS 1 THRU 5 DATED 06/19/2013 THRU 10/11/2013
6	DG UPDATED PER 2014 FBC
7	DG UPDATED PER 2017 FBC
8	DG UPDATED PER 2020 FBC
9	DG REVISED CLIP ANGLE SPACING
10	DG UPDATED GENERAL NOTES TO REFERENCE 2023 FBC
11	DG REVISED JALZ ANCHOR

Date: 3/21/13	
Drawn By: DG	
Checked By: DM	
Drawing No. RD1032	

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0213.04
Expiration Date 07/10/2028
By *[Signature]*
Miami-Dade Product Control