



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
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

WinDoor, Inc.
7500 Amsterdam Drive
Orlando, FL 32832

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: Series "4000 (SG)" Aluminum Single Hung Window - S.M.I.

APPROVAL DOCUMENT: Drawing No. 08-02217, titled "4000 Aluminum Single Hung Window SGP Equal Leg and Flange - SMI", sheets 1 through 13 of 13, dated 09/05/13, with revision C dated 11/29/17, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: 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 **renews** NOA# 17-1219.28 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 **Sifang Zhao, P.E.**



S. Z.
03/01/2019

NOA No. 19-0130.04
Expiration Date: March 27, 2024
Approval Date: March 07, 2019
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs

A. DRAWINGS

1. Manufacturer's die drawings and sections. *(Submitted under NOA No. 13-0917.10)*
2. Drawing No. **08-02217**, titled "4000 Aluminum Single Hung Window SGP Equal Leg and Flange - SMI", sheets 1 through 13 of 13, dated 09/05/13, with revision C dated 11/29/17, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NCTL-210-3883-01**, dated 08/13/13, signed and sealed by Gerald J. Ferrara, P.E.
(Submitted under NOA No. 13-0917.10)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th edition (2017)**, dated 11/29/17 prepared, signed and sealed by Luis R. Lomas, P.E.
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, and of no financial interest, dated 11/29/2017, issued, signed and sealed by Luis R. Lomas, P.E.

G. OTHERS

1. NOA No. **15-0723.06**, issued to WinDoor, Inc. for their Series "4000 (SG)" Aluminum Single Hung Window - S.M.I. approved on 04/07/16 and expiring on 03/27/19.



Sifang Zhao, P.E.

Product Control Examiner

NOA No. 19-0130.04

Expiration Date: March 27, 2024

Approval Date: March 07, 2019

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None.

B. TESTS

1. None

C. CALCULATIONS

1. None

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, and of no financial interest, dated 01/23/2019, issued, signed and sealed by Anthony Lynn Miller, P.E

G. OTHERS

1. NOA No. **17-1219.28**, issued to WinDoor, Inc. for their Series "4000 (SG)" Aluminum Single Hung Window - S.M.I. approved on 03/08/18 and expiring on 03/27/19.



Sifang Zhao, P.E.

Product Control Examiner

NOA No. 19-0130.04

Expiration Date: March 27, 2024

Approval Date: March 07, 2019

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED PER NEW REQUIREMENTS	11/29/17	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 6th EDITION (2017) INCLUDING THE HVHZ.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE MADE FROM MATERIALS CAPABLE OF SUSTAINING APPLICABLE LOADS, LOCATED AND APPLIED IN A THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: ALUMINUM 6063-T6.
12. UNITS MUST BE GLAZED PER ASTM E1300-04 SEE SHEET 2 FOR GLAZING DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS. WHEN INSTALLED AT 30.0 FT. OR HIGHER ABOVE GROUND LEVEL
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" ELCO CRETE-FLEX SS4 WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 CUT-THREAD WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS MINIMUM GRADE 5 WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 16GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 - 4	ELEVATIONS
5 - 6	CROSS SECTIONS
7 - 11	INSTALLATION DETAILS
12 - 13	COMPONENTS

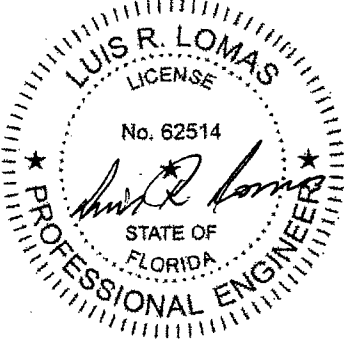
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **19-0130.04**
Expiration Date **03/27/2024**
By 
Miami-Dade Product Control

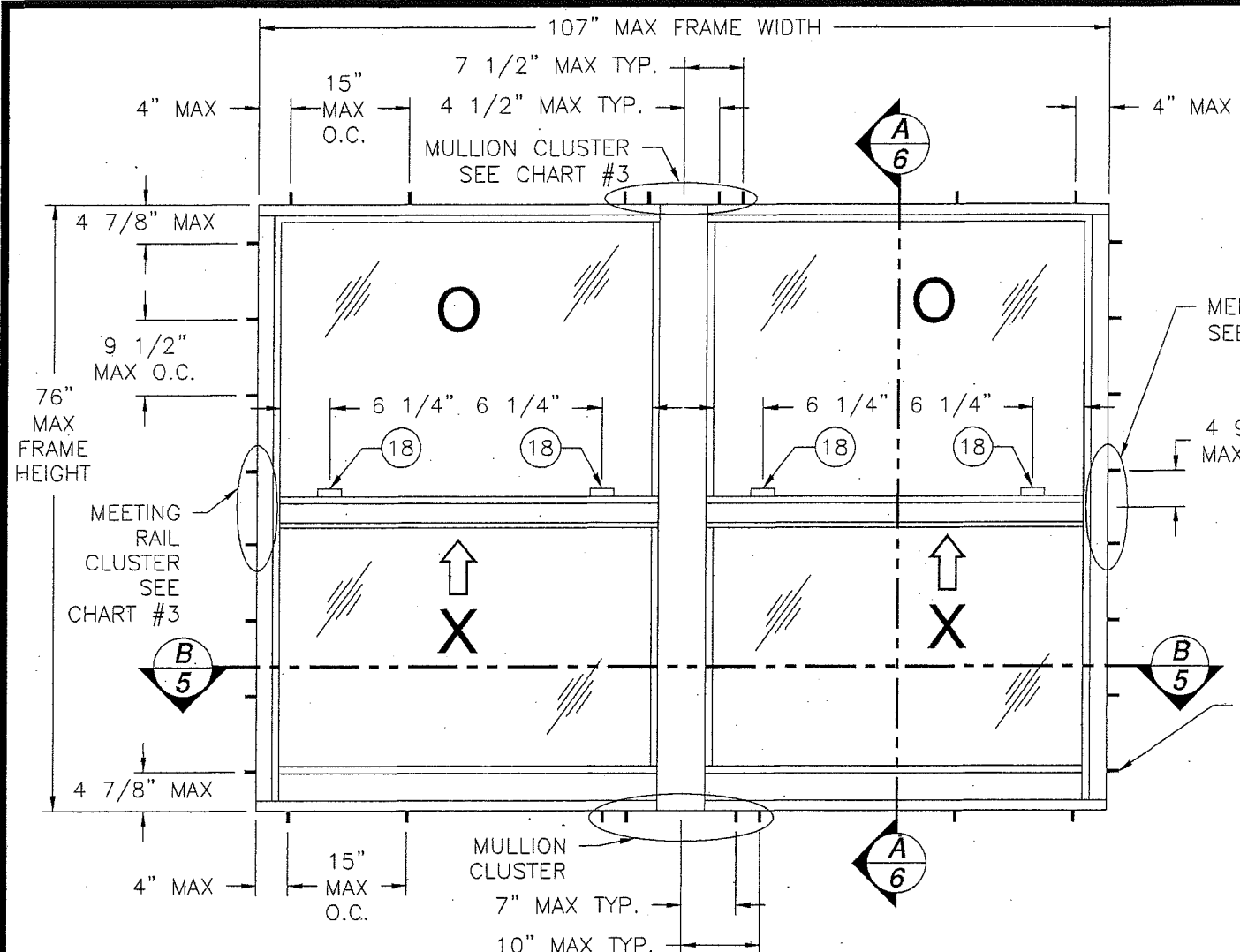
WinDoor
INCORPORATED
7500 AMSTERDAM DRIVE
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Phone: 407.481.8400
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www.windoorinc.com

4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE - SMI
NOTES

DRAWN: N.G.	DWG NO. 08-02217	REV C
SCALE NTS	DATE 09/05/13	SHEET 1 OF 13

SIGNED: 02/19/2018





- NOTE:
1. FLANGE UNIT DIMENSIONS : 108" X 77" TIP TO TIP
 2. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 3. SILL RETAINER FULL LENGTH OF SILL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED PER NEW REQUIREMENTS	11/29/17	R.L.

CHART #1
FOR METAL AND MASONRY/CONCRETE INSTALLATION

Frame Height (in)	Design pressure (psf)									
	Frame width (in)									
	60.00		72.00		84.00		96.00		107.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.00	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
36.00	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	139.1
42.00	120.0	150.0	120.0	150.0	120.0	150.0	120.0	141.5	120.0	123.4
48.00	120.0	150.0	120.0	150.0	120.0	150.0	120.0	129.0	111.9	111.9
54.00	120.0	150.0	120.0	150.0	120.0	144.8	119.6	119.6	103.2	103.2
60.00	120.0	150.0	120.0	150.0	120.0	136.9	112.6	112.6	96.5	96.5
66.00	120.0	150.0	120.0	135.2	120.0	121.3	107.2	107.2	91.3	91.3
72.00	120.0	136.9	120.0	120.5	108.4	108.4	98.6	98.6	87.2	87.2
76.00	120.0	128.0	112.2	112.2	101.0	101.0	92.0	92.0	85.0	85.0

CHART #2
FOR WOOD INSTALLATION

Frame Height (in)	Design pressure (psf)									
	Frame width (in)									
	60.00		72.00		84.00		96.00		107.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.00	120.0	118.2	120.0	118.2	120.0	118.2	120.0	118.2	112.3	112.3
36.00	120.0	118.2	120.0	118.2	120.0	118.2	110.4	110.4	96.7	96.7
42.00	120.0	118.2	120.0	118.2	117.1	117.1	98.4	98.4	85.8	85.8
48.00	120.0	118.2	120.0	118.2	107.6	107.6	89.7	89.7	77.8	77.8
54.00	120.0	118.2	120.0	118.2	100.7	100.7	83.2	83.2	71.7	71.7
60.00	120.0	118.2	106.4	106.4	95.2	95.2	78.3	78.3	67.1	67.1
66.00	106.4	106.4	94.0	94.0	84.3	84.3	74.5	74.5	63.5	63.5
72.00	95.2	95.2	83.8	83.8	75.4	75.4	68.5	68.5	60.6	60.6
76.00	89.0	89.0	78.0	78.0	70.2	70.2	64.0	64.0	59.1	59.1

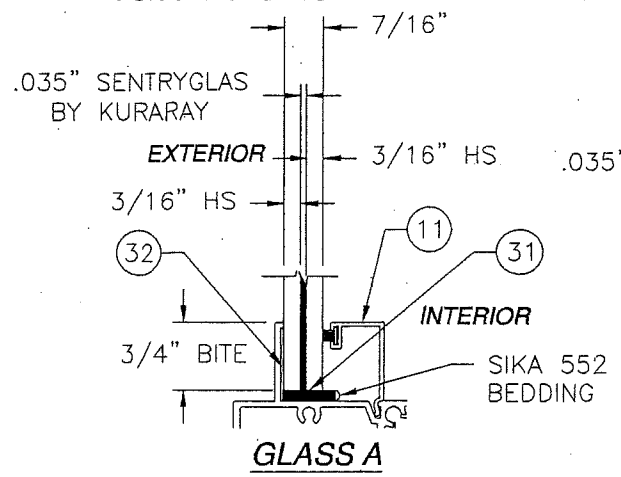
CHART #3

Frame Height (in)	Number of anchor locations required															
	Frame Width (in)															
	60.00				72.00				84.00				96.00			
	H&S	Jamb	Meeting rail cluster	Mullion cluster	H&S	Jamb	Meeting rail cluster	Mullion cluster	H&S	Jamb	Meeting rail cluster	Mullion cluster	H&S	Jamb	Meeting rail cluster	Mullion cluster
30.00	1	1		2	2	1	2	2	2	1	2	2	2	1	2	3
36.00	1	1	1	2	2	1	2	2	2	1	2	3	2	1	2	3
42.00	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3
48.00	2	2	2	3	2	2	2	3	2	2	2	4	2	2	2	3
54.00	2	2	2	3	2	2	2	4	2	2	2	4	2	2	2	4
60.00	2	3	2	4	2	3	2	4	2	3	2	4	2	3	2	4
66.00	2	3	1	4	2	3	2	4	2	3	2	4	2	3	2	4
72.00	2	3	1	4	2	3	2	4	2	3	2	4	2	3	2	4
76.00	1	3	1	4	2	3	2	4	2	3	2	4	2	3	2	4

4000 ALUMINUM SINGLE HUNG TWIN WINDOW
EXTERIOR VIEW

FOR METAL AND MASONRY/CONCRETE INSTALLATION	
DESIGN PRESSURE RATING	IMPACT RATING
±85.0PSF	SMALL MISSILE IMPACT

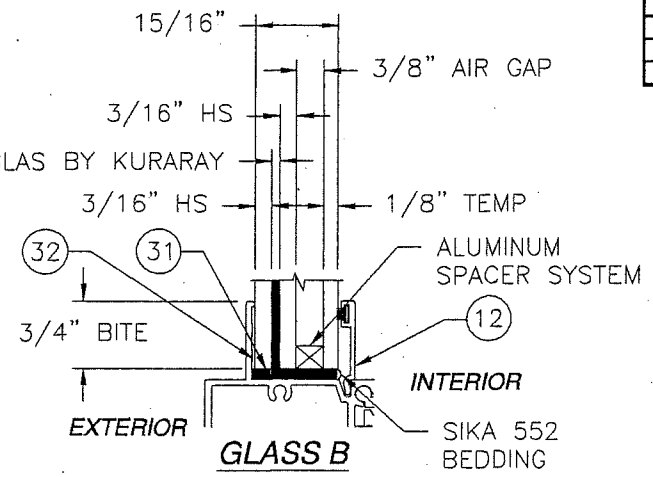
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
FOR OTHER UNITS RATINGS SEE CHART #1



4000 ALUMINUM SINGLE HUNG TWIN WINDOW
INTERIOR VIEW

FOR WOOD INSTALLATION	
DESIGN PRESSURE RATING	IMPACT RATING
±59.1PSF	SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
FOR OTHER UNITS RATINGS SEE CHART #2



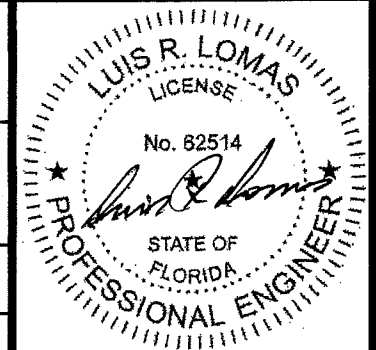
PRODUCT RENEWED
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Expiration Date 03/27/2024
By Miami-Dade Product Control

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7500 AMSTERDAM DRIVE
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4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE - SMI
TWIN ELEVATION & GLAZING DETAILS

DRAWN: N.G.	DWG NO. 08-02217	REV C
SCALE NTS	DATE 09/05/13	SHEET 2 OF 13

SIGNED: 02/19/2018



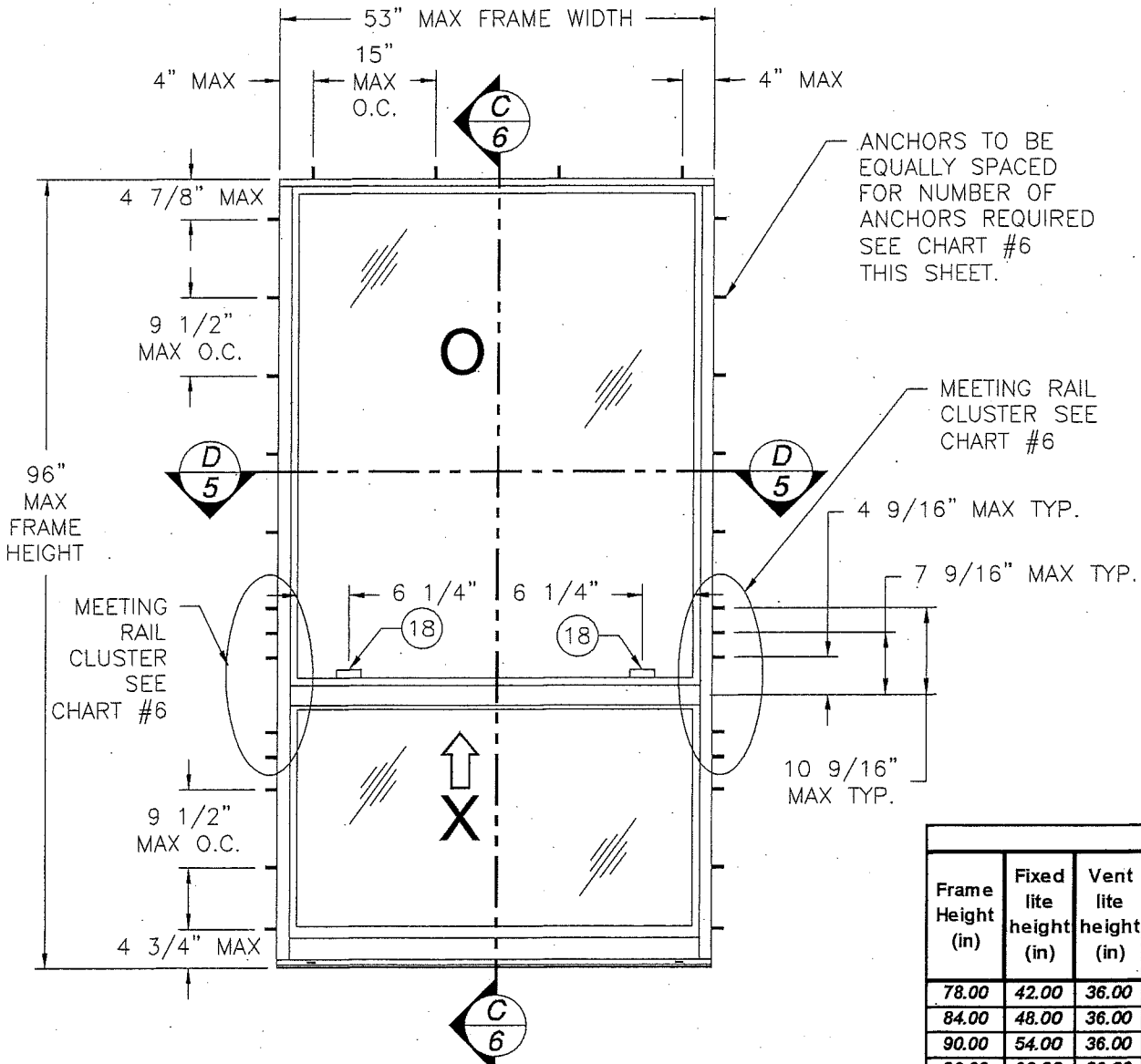
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED PER NEW REQUIREMENTS	11/29/17	R.L.

CHART #4
FOR METAL AND MASONRY/CONCRETE INSTALLATION

Maximum design pressure capacity chart (psf)										
Frame Height (in)	Panel width (in)									
	30.0		36.0		42.0		48.0		53.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
84.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
90.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
96.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0

CHART #5 Maximum design pressure (psf) For units installed in wood substrate										
Frame Height (in)	Frame Width (in)									
	30.00		36.00		42.00		48.00		53.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.00	120.0	143.5	119.6	119.6	120.0	129.5	108.3	108.3	95.3	95.3
84.00	117.4	117.4	107.7	107.7	102.5	102.5	100.9	100.9	100.9	100.9
90.00	120.0	132.5	119.6	119.6	111.8	111.8	107.7	107.7	106.4	106.4
96.00	114.8	114.8	102.5	102.5	118.3	118.3	107.7	107.7	109.1	109.1

CHART #6 Number of anchor locations required																						
Frame Height (in)	Fixed lite height (in)	Vent lite height (in)	Frame Width (in)																			
			30.00				36.00				42.00				48.00				53.00			
			Head	Jamb upper	Meeting rail cluster	Jamb lower	Head	Jamb upper	Meeting rail cluster	Jamb lower	Head	Jamb upper	Meeting rail cluster	Jamb lower	Head	Jamb upper	Meeting rail cluster	Jamb lower	Head	Jamb upper	Meeting rail cluster	Jamb lower
78.00	42.00	36.00	3	2	2	2	3	3	3	2	3	3	3	2	4	3	4	3	4	3	4	3
84.00	48.00	36.00	3	3	2	2	3	3	3	2	3	3	3	2	4	3	4	3	4	3	5	3
90.00	54.00	36.00	3	3	2	2	3	4	3	2	3	4	3	2	4	4	4	3	4	4	5	3
96.00	60.00	36.00	3	4	2	2	3	4	3	2	3	5	3	2	4	5	4	3	4	5	5	3



4000 ALUMINUM SINGLE HUNG ORIEL WINDOW
EXTERIOR VIEW

FOR WOOD, METAL AND MASONRY/CONCRETE INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
+120.0/-150.0PSF	SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
FOR OTHER UNITS RATINGS SEE CHART #4

FOR WOOD INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
±109.1PSF	SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
FOR OTHER UNITS RATINGS SEE CHART #5

- NOTE:
- FLANGE UNIT DIMENSIONS : 54" X 97" TIP TO TIP
 - INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - NO FASTENERS IN SILL, AT SINGLE UNITS ONLY.

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **19-0130.04**
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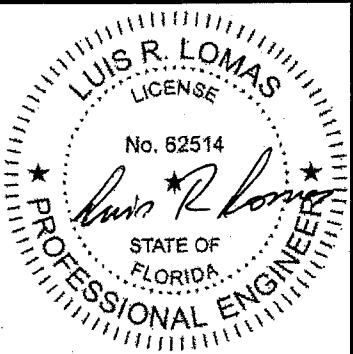
WinDoor
INCORPORATED

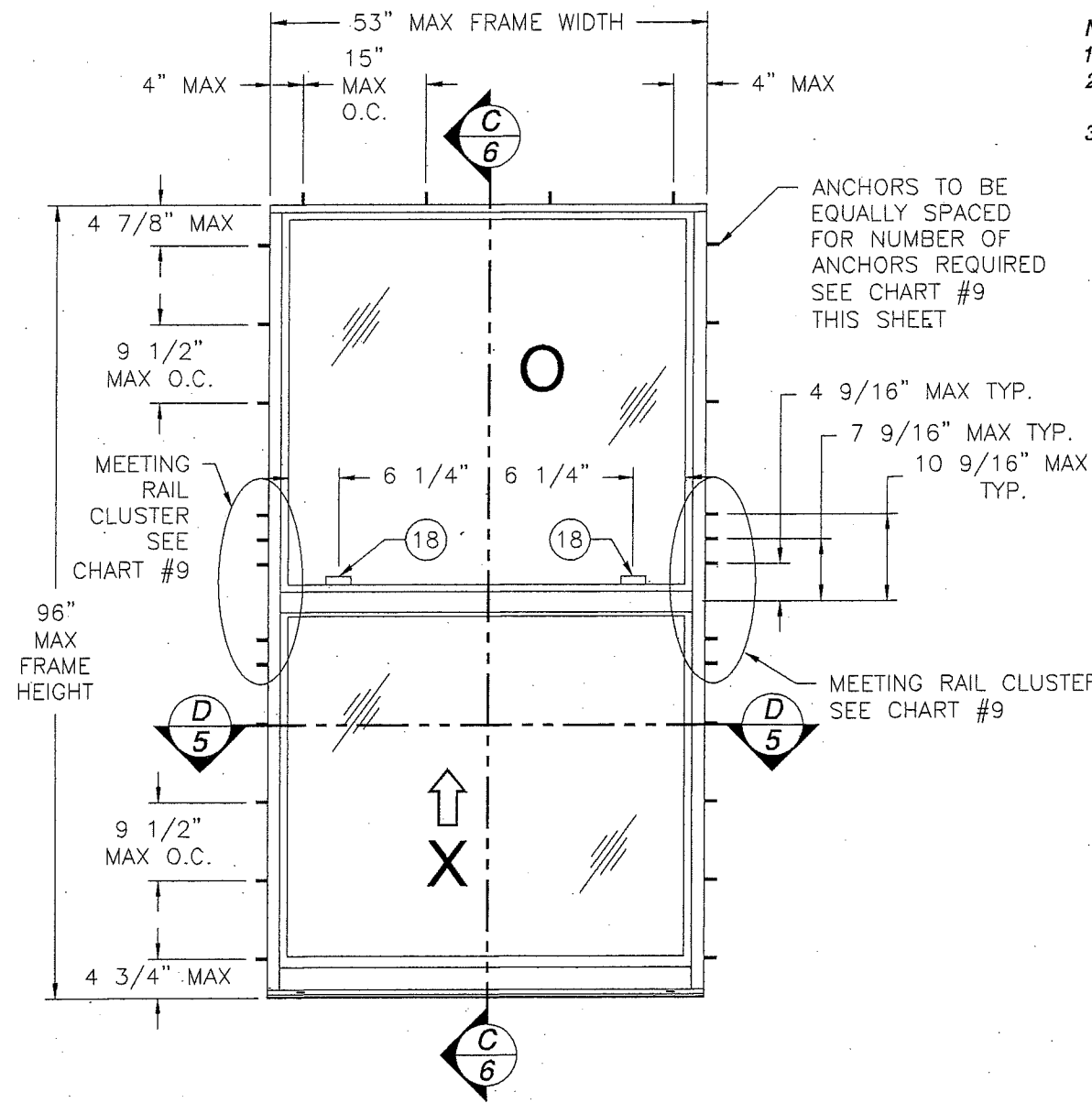
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4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE - SMI
ORIEL ELEVATION

DRAWN: N.G.	DWG NO. 08-02217	REV C
SCALE NTS	DATE 09/05/13	SHEET 3 OF 13

SIGNED: 02/19/2018





4000 ALUMINUM SINGLE HUNG WINDOW
EXTERIOR VIEW

- NOTE:
1. FLANGE UNIT DIMENSIONS : 54" X 97" TIP TO TIP
 2. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 3. NO FASTENERS IN SILL, AT SINGLE UNITS ONLY.

CHART #7
FOR METAL, MASONRY/CONCRETE INSTALLATION

Maximum design pressure capacity chart (psf)										
Frame Height (in)	Panel width (in)									
	30.0		36.0		42.0		48.0		53.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
36.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
42.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
48.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
54.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
60.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
66.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
72.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
78.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
84.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
90.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0
96.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0	120.0	150.0

CHART #8
FOR WOOD INSTALLATION

Maximum design pressure capacity chart (psf)										
Frame Height (in)	Panel width (in)									
	30.0		36.0		42.0		48.0		53.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
36.0	120.0	147.6	120.0	147.6	120.0	147.6	120.0	147.6	120.0	147.6
42.0	120.0	147.6	120.0	147.6	120.0	147.6	120.0	147.6	120.0	147.6
48.0	120.0	147.6	120.0	147.6	120.0	147.6	120.0	147.6	120.0	143.8
54.0	120.0	147.6	120.0	147.6	120.0	147.1	120.0	141.6	120.0	139.9
60.0	120.0	147.6	120.0	147.6	120.0	138.3	120.0	131.1	120.0	127.6
66.0	120.0	147.6	120.0	144.2	120.0	131.8	120.0	123.6	119.0	119.0
72.0	120.0	147.6	120.0	139.8	120.0	126.9	118.0	118.0	112.7	112.7
78.0	120.0	147.6	120.0	136.3	120.0	123.0	113.6	113.6	107.9	107.9
84.0	120.0	147.6	120.0	133.5	119.9	119.9	110.1	110.1	104.1	104.1
90.0	120.0	147.6	120.0	131.1	117.3	117.3	107.3	107.3	101.0	101.0
96.0	120.0	147.6	120.0	129.1	115.1	115.1	104.9	104.9	98.4	98.4

CHART #9

Number of anchor locations required																				
Frame Height (in)	Frame Width (in)																			
	30.00				36.00				42.00				48.00				53.00			
	Head	Jamb upper	Meeting rail cluster	Jamb lower	Head	Jamb upper	Meeting rail cluster	Jamb lower	Head	Jamb upper	Meeting rail cluster	Jamb lower	Head	Jamb upper	Meeting rail cluster	Jamb lower	Head	Jamb upper	Meeting rail cluster	Jamb lower
36.00	3	1	2	1	3	1	2	1	4	1	2	1	4	1	2	2	4	1	3	2
42.00	3	1	2	1	3	1	2	1	4	1	2	2	4	1	3	2	4	1	3	2
48.00	3	1	2	1	3	1	2	2	4	1	3	2	4	1	3	2	4	1	3	2
54.00	3	1	2	1	3	1	2	2	4	1	3	2	4	1	3	2	4	1	4	2
60.00	3	2	2	2	3	2	3	2	4	2	3	2	4	2	3	2	4	2	4	2
66.00	3	2	2	2	3	2	3	2	4	2	3	2	4	2	4	2	4	2	4	3
72.00	3	2	2	2	3	2	3	2	4	2	3	2	4	2	4	3	4	2	4	3
76.00	3	2	2	2	3	2	3	2	4	2	4	2	4	2	4	3	4	2	5	3
80.00	3	2	3	2	3	2	3	2	4	2	4	3	4	2	4	3	4	2	5	3
84.00	3	2	3	2	3	3	3	2	4	3	4	3	4	3	4	3	4	3	5	3
88.00	3	3	3	2	3	3	3	2	4	3	4	3	4	3	4	3	4	3	5	3
92.00	3	3	3	3	3	3	3	3	4	3	4	3	4	3	5	3	4	3	5	3
96.00	3	3	3	3	3	3	3	3	4	3	4	3	4	3	5	3	4	3	5	4

FOR METAL AND MASONRY/CONCRETE INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
+120.0/-150.0PSF	SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
FOR OTHER UNITS RATINGS SEE CHART #7

FOR WOOD INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
±98.4PSF	SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
FOR OTHER UNITS RATINGS SEE CHART #8

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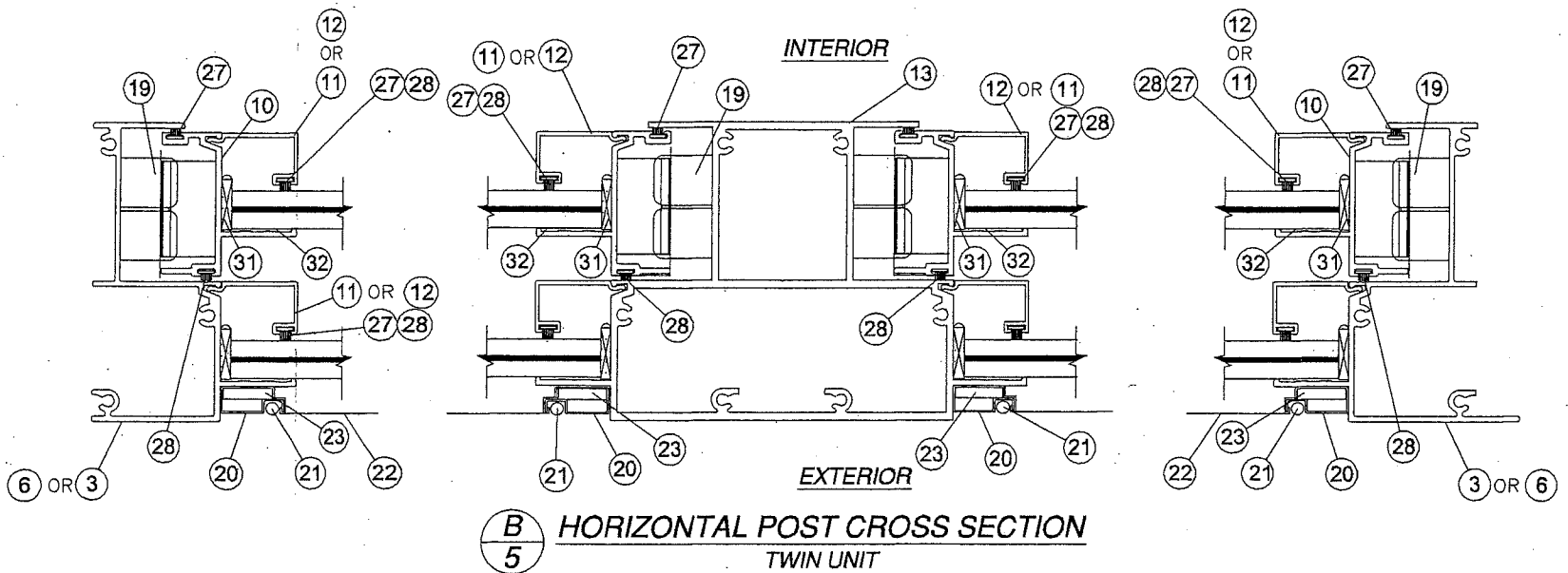
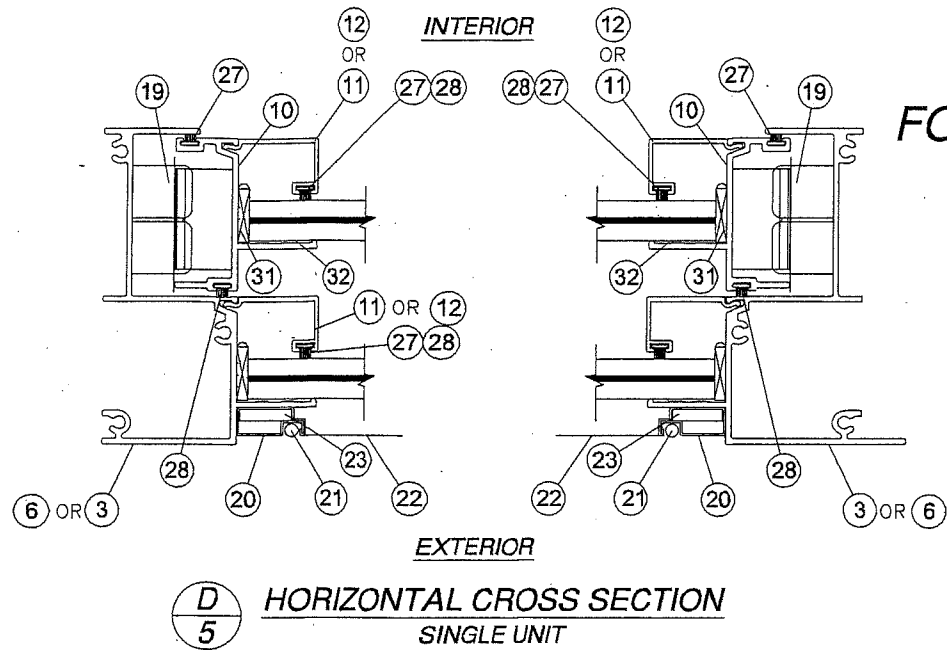
4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE - SMI
EQUAL LEG ELEVATION

DRAWN: N.G. DWG NO. 08-02217 REV C

SCALE NTS DATE 09/05/13 SHEET 4 OF 13

SIGNED: 02/19/2018

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	FS-06612	FRAME HEAD EQUAL LEG	KEYMARK	ALUMINUM 6063-T6
2	FS-06613	FRAME SILL EQUAL LEG	KEYMARK	ALUMINUM 6063-T6
3	FS-06614	FRAME JAMB EQUAL LEG	KEYMARK	ALUMINUM 6063-T6
4	FS-06661	FRAME HEAD FLANGE	KEYMARK	ALUMINUM 6063-T6
5	FS-06662	FRAME SILL FLANGE	KEYMARK	ALUMINUM 6063-T6
6	FS-06663	FRAME JAMB FLANGE	KEYMARK	ALUMINUM 6063-T6
7	FH-06615	FIXED MEETING RAIL	KEYMARK	ALUMINUM 6063-T6
8	FH-06616	MEETING RAIL	KEYMARK	ALUMINUM 6063-T6
9	FH-06617	LIFT RAIL	KEYMARK	ALUMINUM 6063-T6
10	FS-06618	SASH JAMB	KEYMARK	ALUMINUM 6063-T6
11	FS-06667	7/16" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
12	FS-06619	1" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
13	FH-06668	VERTICAL IMPOST	KEYMARK	ALUMINUM 6063-T6
14	FS-04501	HEAD RECESS COVER	KEYMARK	ALUMINUM 6063-T6
15	FE-5031	SILL SNAP LOCK	KEYMARK	ALUMINUM 6063-T6
16	FS-06671	HEAD FILLER	KEYMARK	ALUMINUM 6063-T6
17	FS-06664	SILL RETAINER	KEYMARK	ALUMINUM 6063-T6
18	H4000-BL-SL202	SASH LOCK	WINDOOR	
19		BLOCK AND TACKLE BALANCE	WINDOOR	
20	S4000-XX-150	SCREEN HEAD, JAMB AND SILL	WINDOOR	ALUMINUM 6063-T6
21	S10010-BL-2200R	SCREEN SPLINE	WINDOOR	
22	SBV-XX-0600Z	SCREEN CLOTH	WINDOOR	
23	54080-ML-FB11	SCREEN CORNER KEY	WINDOOR	ALUMINUM 6063-T6
24	122003	.187X.350 FINSEAL	ULTRAFAB	
25	W4000-BL-20218	.187X.300 WEATHERSTRIP	FRANK LOWE	PROLON
26	W4000-BL-SCE42	1.300X1.750X.375 CLOSED CELL PAD	TEAM PLASTICS	FOAM
27	122001	.187X.220 FINSEAL	ULTRAFAB	
28	122002	.187X.240 FINSEAL	ULTRAFAB	
29	131096	#6X3/4" SWEEP ATTACHMENT SCREW		STAINLESS STEEL
30	131014	#8X1" RAIL ATTACHMENT SCREW		STAINLESS STEEL
31	121104	SETTING BLOCK	FRANK LOWE	85 DURO SHORE A
32	C4000-91-351AX	PURFECT GLAZE HOT MELT COMPOUND	HENKEL AMERICAS	
33	FS-07419	FRAME EQUAL LEG W/ CHANNEL	KEYMARK	ALUMINUM 6063-T6
34	FS-07418	FRAME FLANGE W/ CHANNEL	KEYMARK	ALUMINUM 6063-T6
35	FH-06670	SHEAR BLOCK	KEYMARK	ALUMINUM 6063-T6
36	FS-07492	REINFORCEMENT	KEYMARK	ALUMINUM 6005-T6
37	FS-07493	REINFORCEMENT	KEYMARK	ALUMINUM 6005-T6



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REFER TO SHEETS 7 - 11**

REVISIONS			
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4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE - SMI
B.O.M. & CROSS SECTIONS

DRAWN: N.G.

DWG. NO. 08-02217

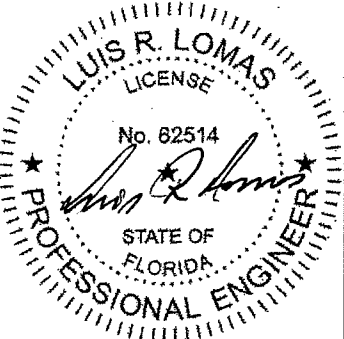
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SCALE NTS

DATE 09/05/13

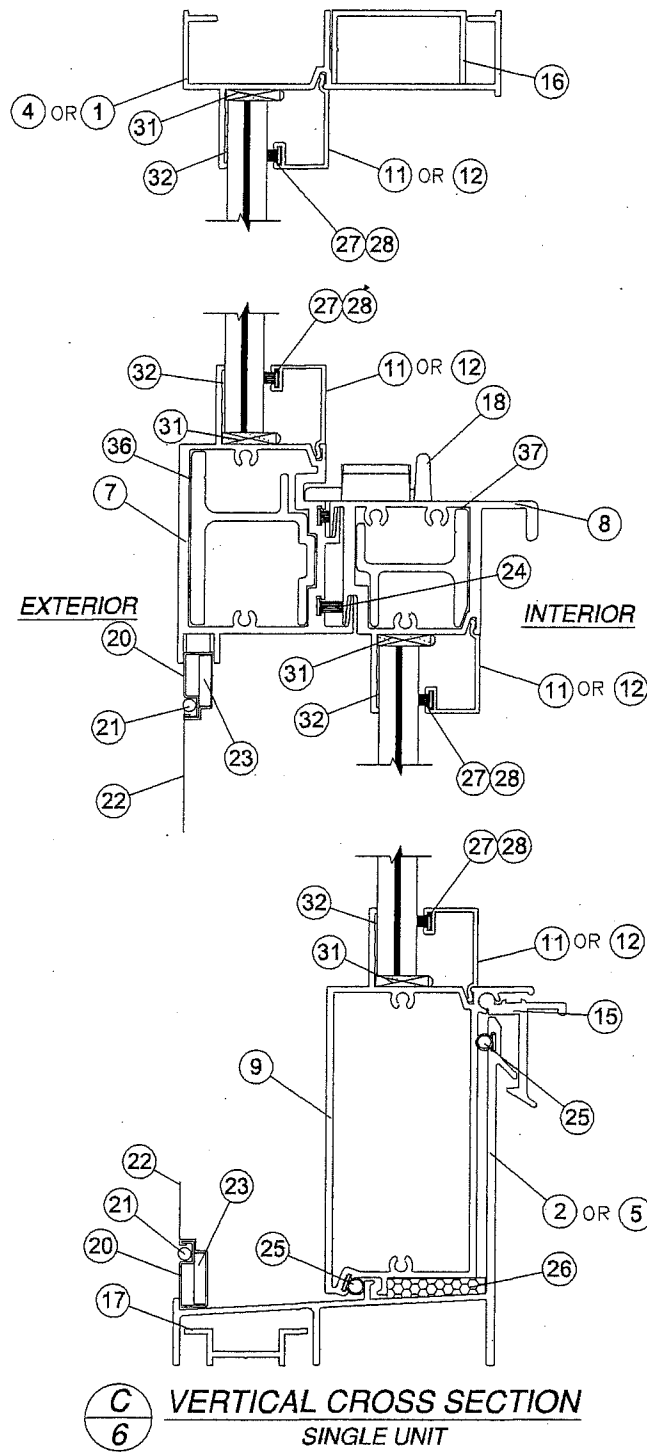
SHEET 5 OF 13

SIGNED: 02/19/2018

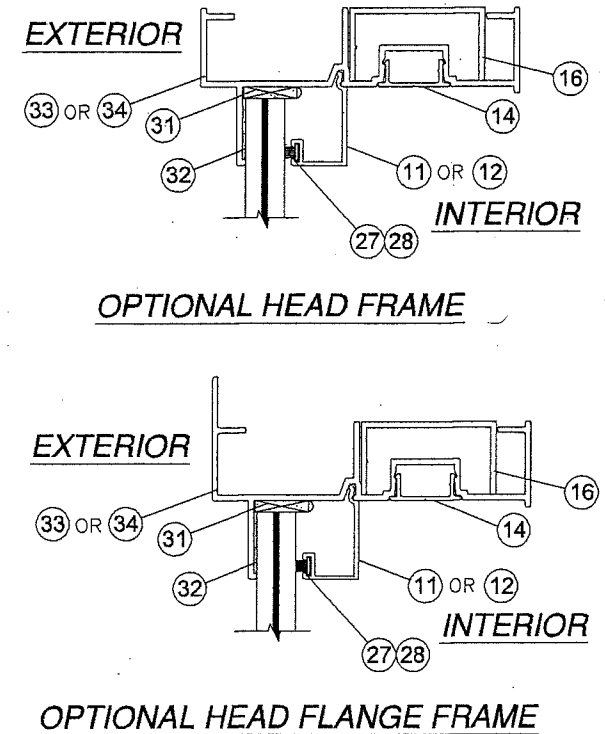
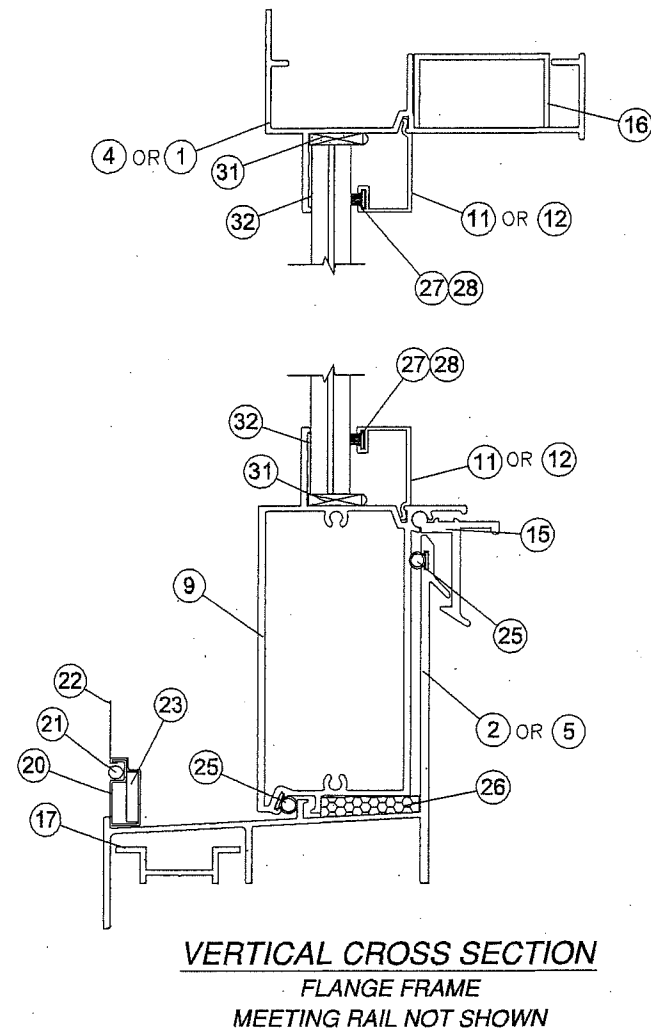
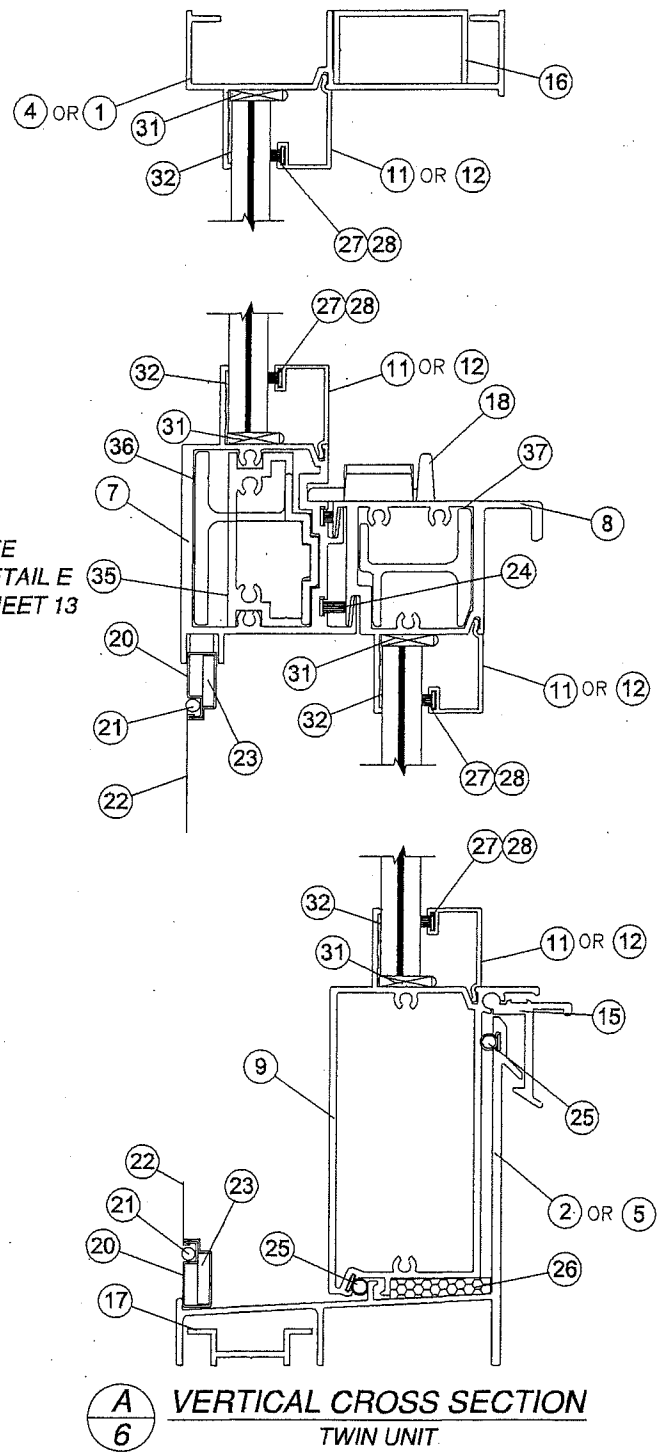


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REVISIONS			
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SEE
DETAIL E
SHEET 13



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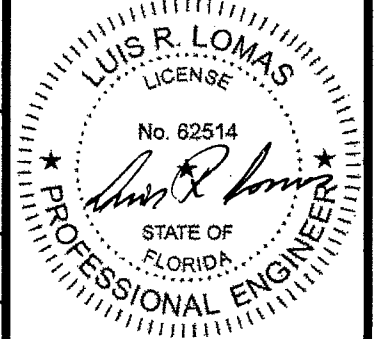
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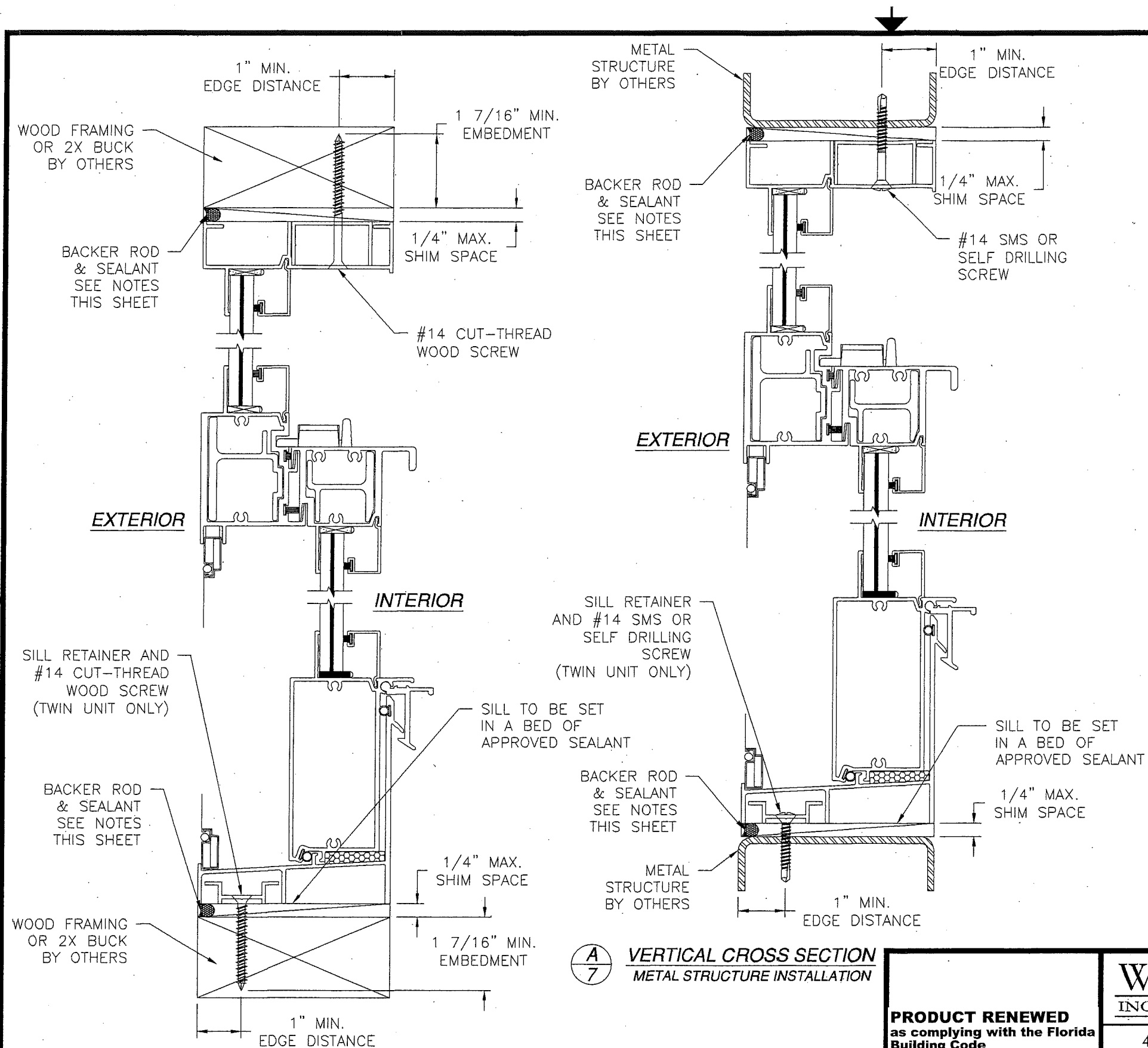
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DRAWN: N.G. DWG NO. 08-02217 REV C
SCALE NTS DATE 09/05/13 SHEET 6 OF 13

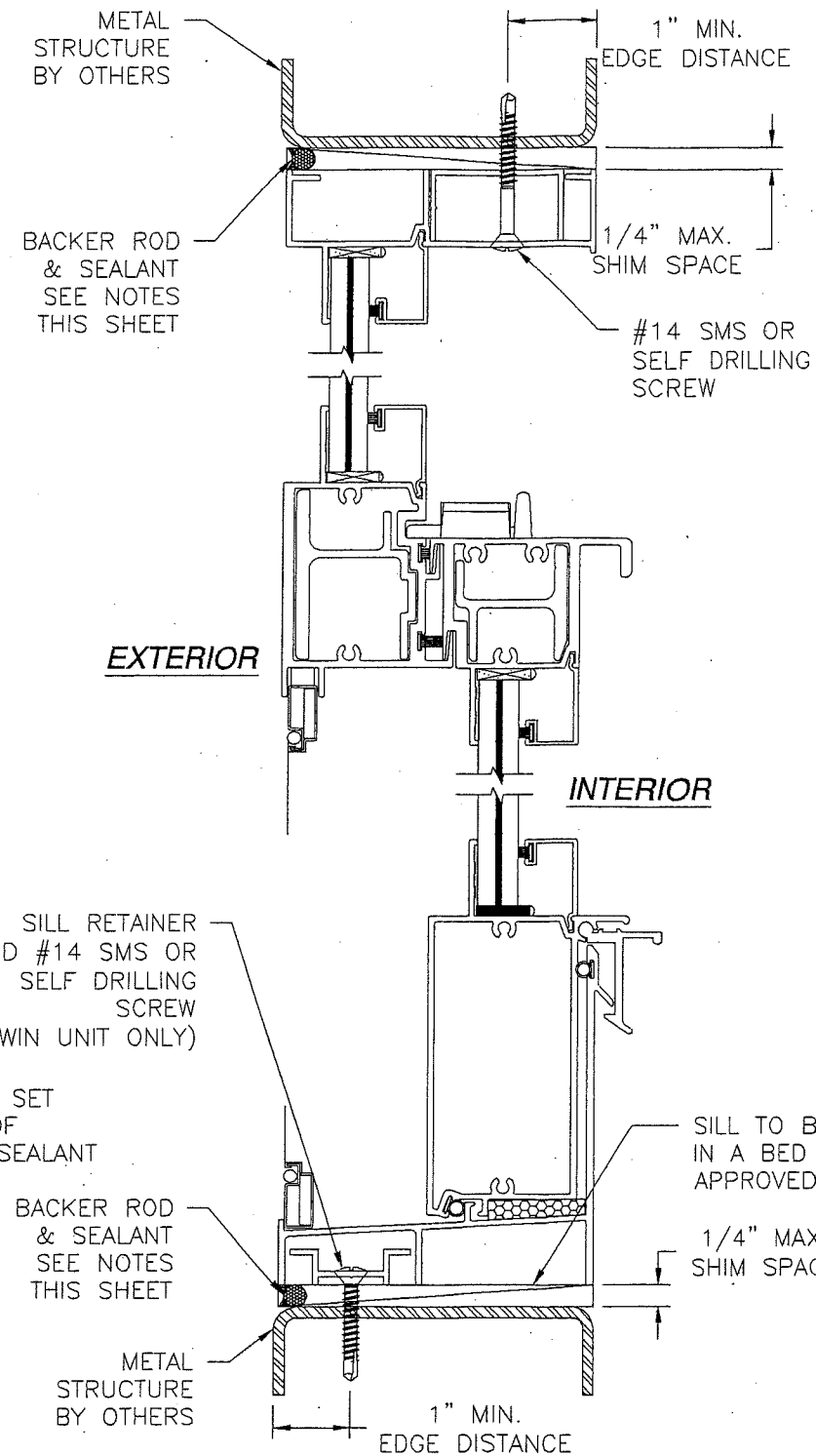




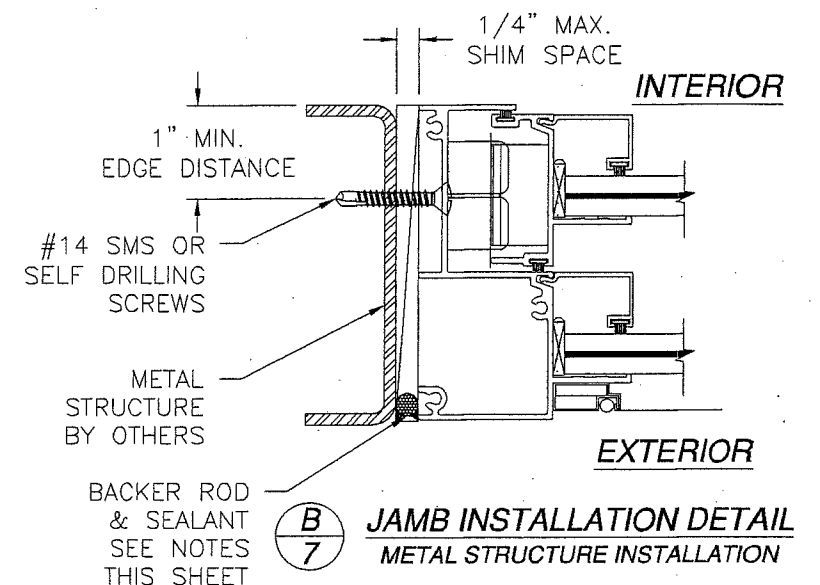
A/7 VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112.
 3. PERIMETER TO BE SEALED WITH APPROVED SILICONE.

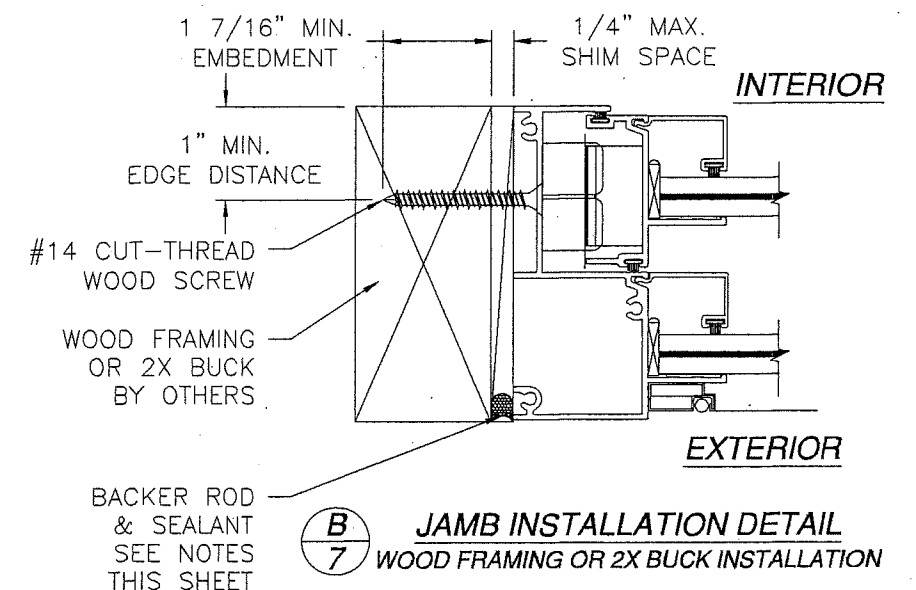
A/7 VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



REVISIONS			
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B/7 JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



B/7 JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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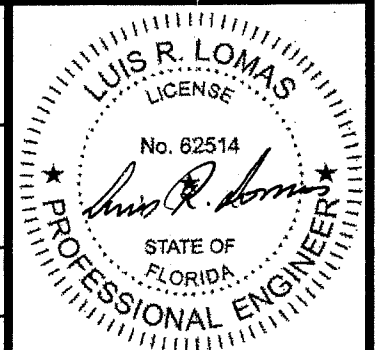
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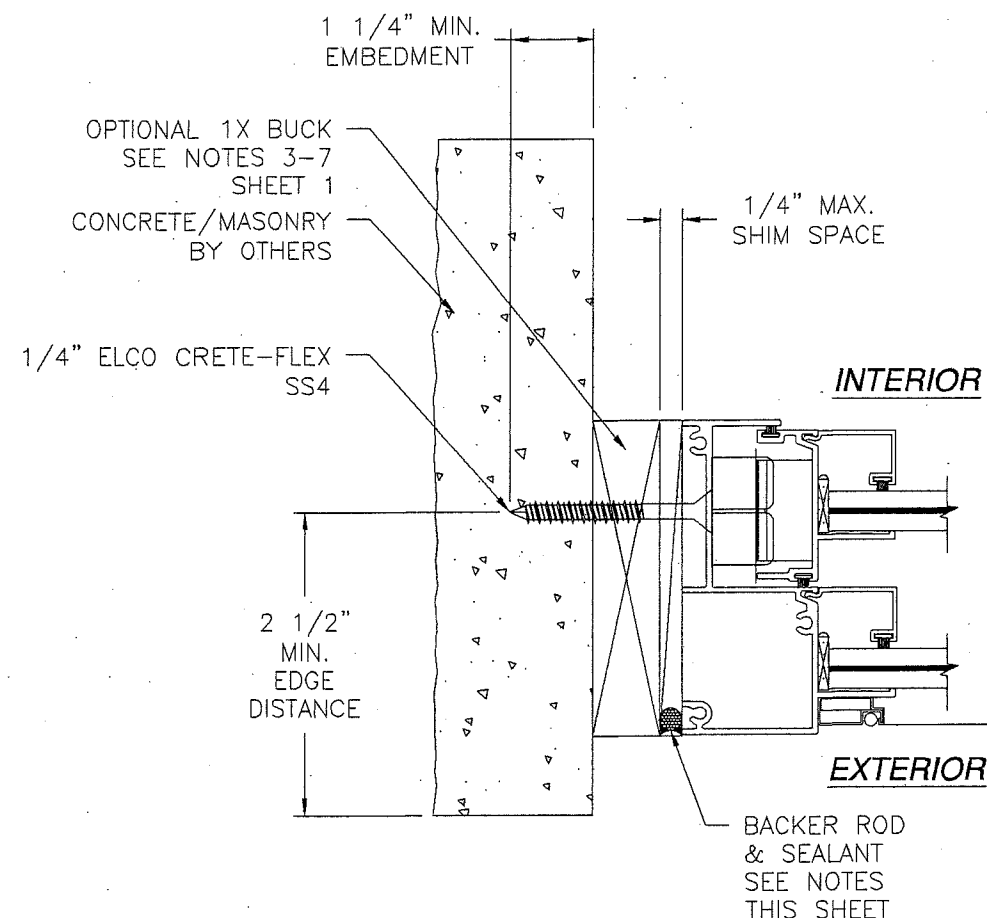
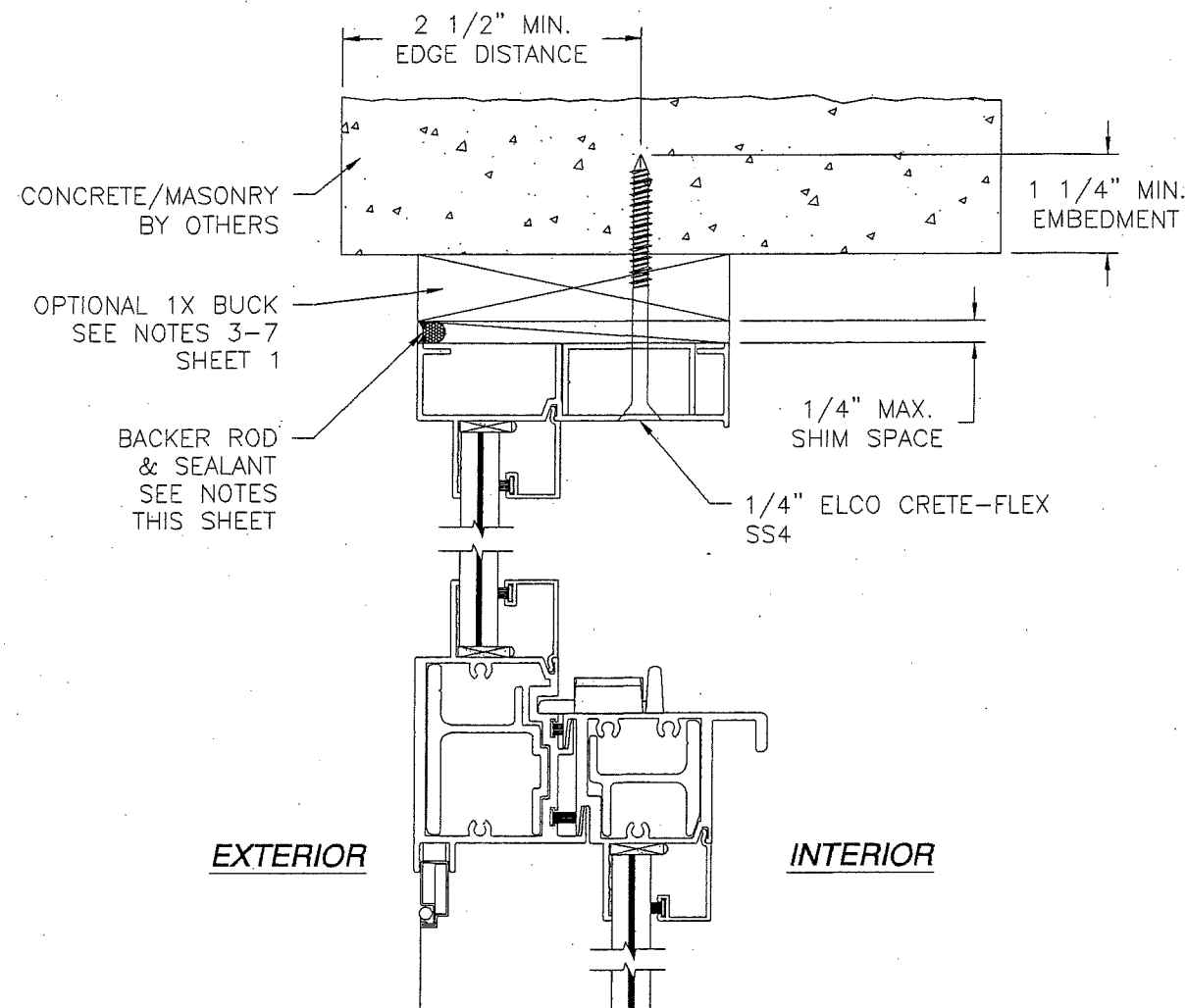
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4000 ALUMINUM SINGLE HUNG WINDOW SGP
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FLUSH INSTALLATION DETAILS

DRAWN: N.G.	DWG NO. 08-02217	REV C
SCALE NTS	DATE 09/05/13	SHEET 7 OF 13

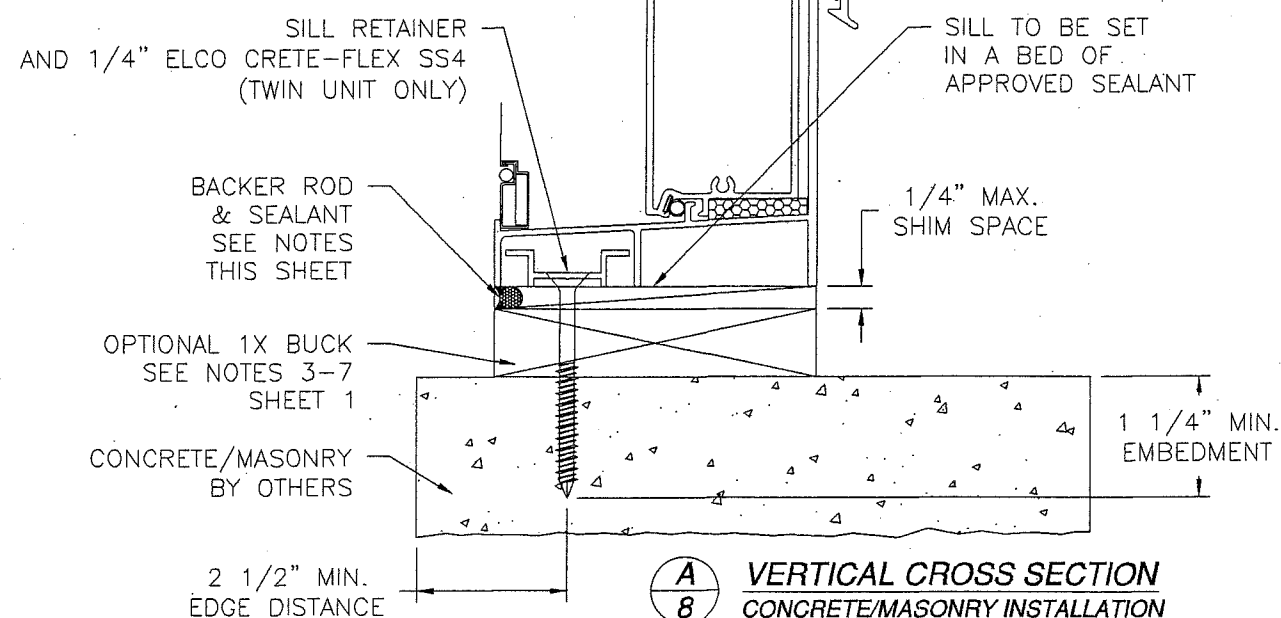


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED PER NEW REQUIREMENTS	11/29/17	R.L.



B
8 JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

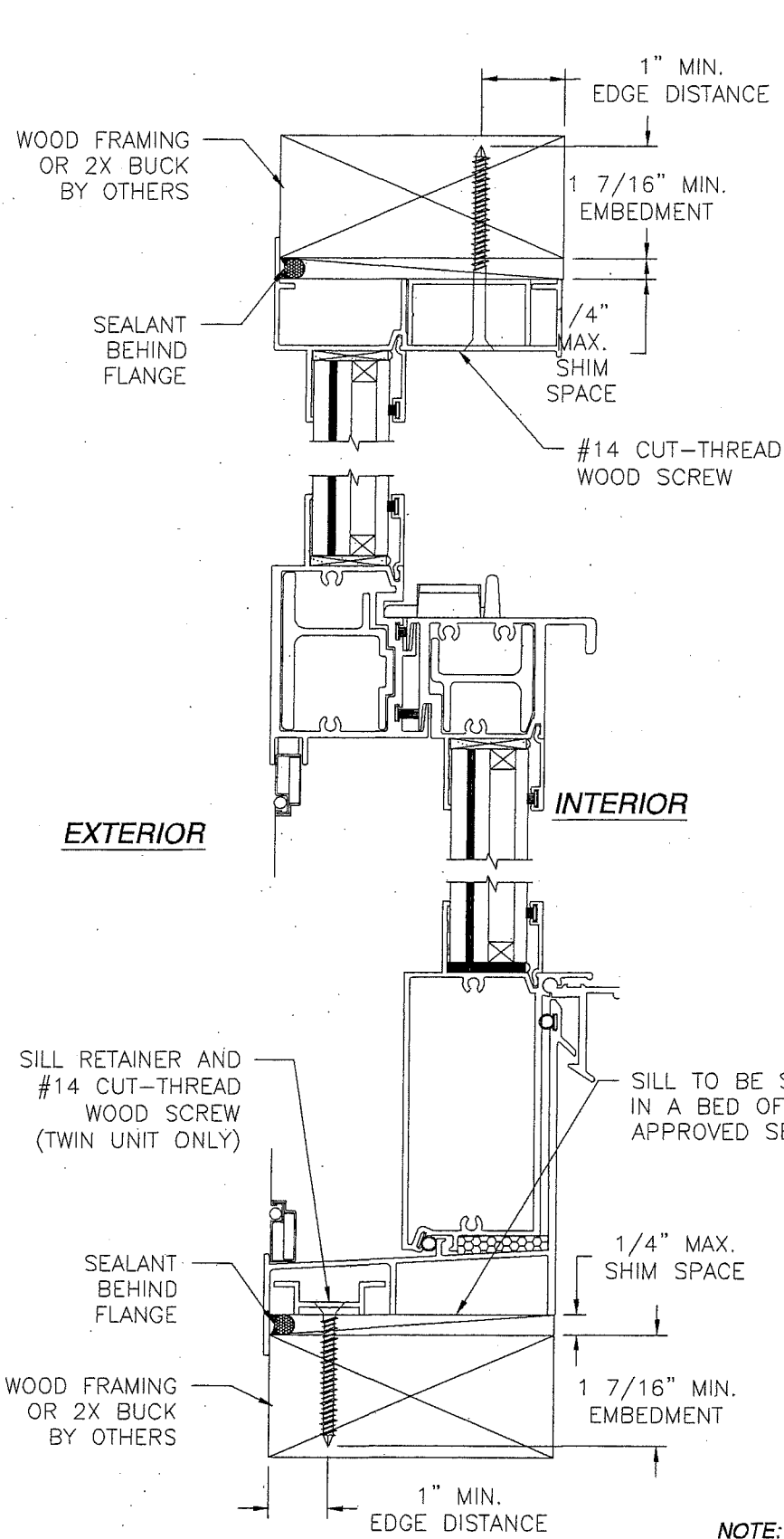
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 3. PERIMETER TO BE SEALED WITH APPROVED SILICONE.



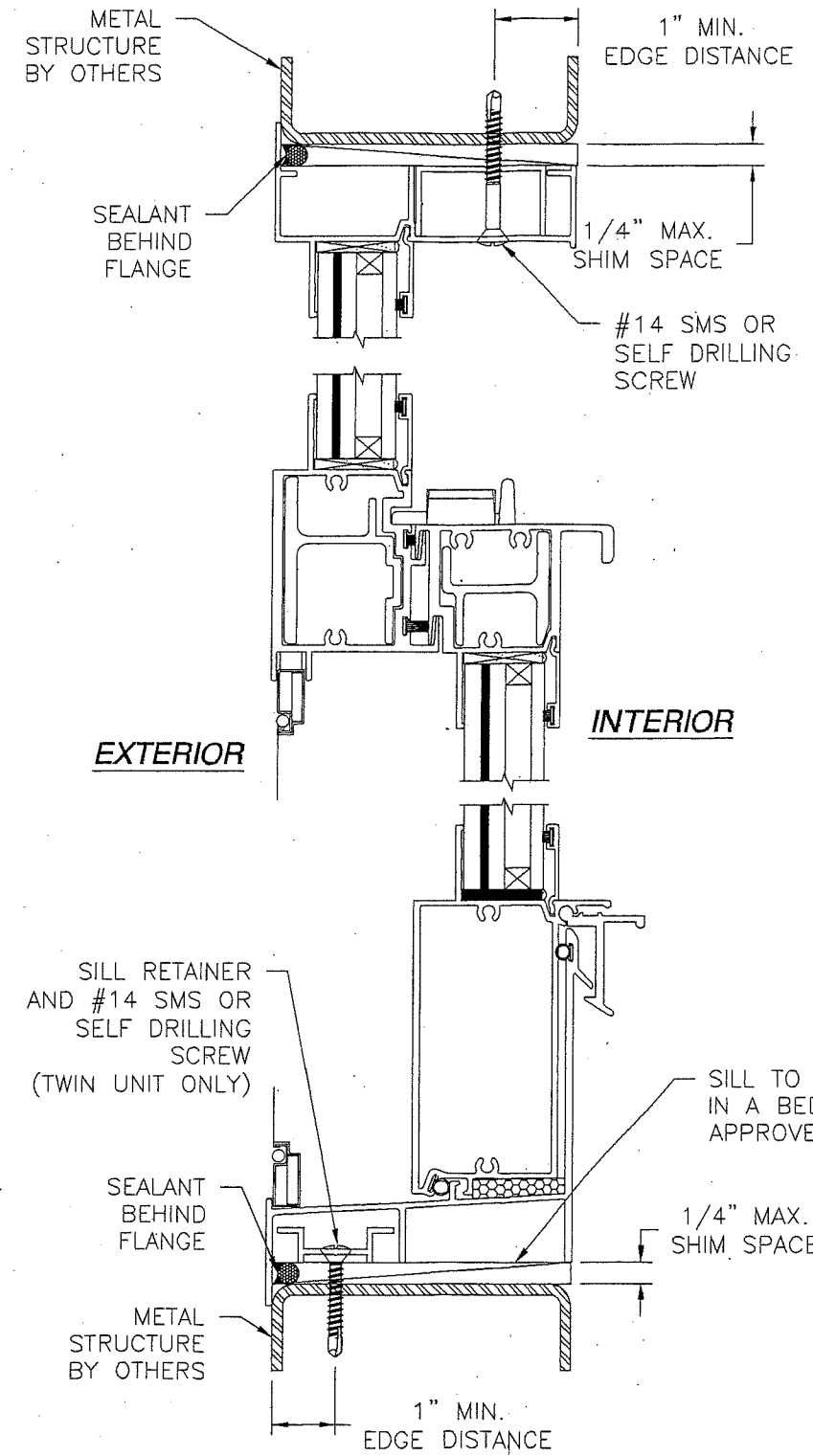
A
8 VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

PRODUCT RENEWED as complying with the Florida Building Code NOA-No. 19-0130.04 Expiration Date 03/27/2024 By <i>[Signature]</i> Miami-Dade Product Control	WinDoor INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	LUIS R. LOMAS LICENSE No. 62514 <i>[Signature]</i> STATE OF FLORIDA PROFESSIONAL ENGINEER
	4000 ALUMINUM SINGLE HUNG WINDOW SGP EQUAL LEG AND FLANGE – SMI FLUSH INSTALLATION DETAILS			
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	SCALE NTS.	DATE 09/05/13	SHEET 8 OF 13	

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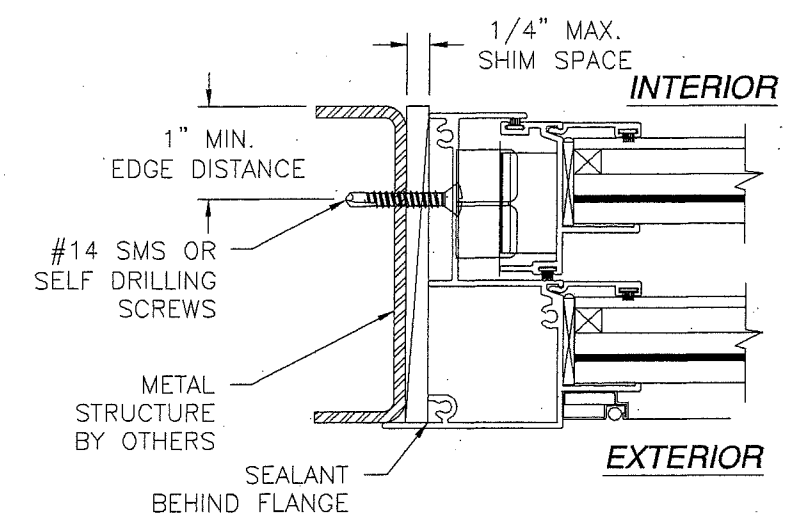
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9 VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



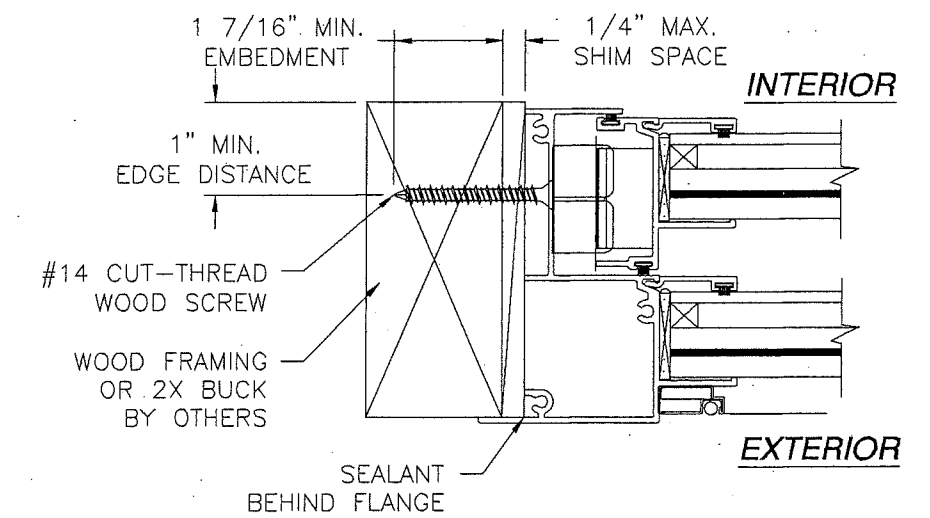
A
9 VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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B
9 JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



B
9 JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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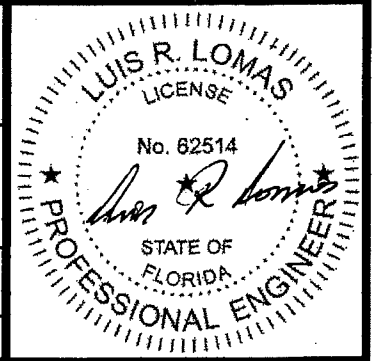
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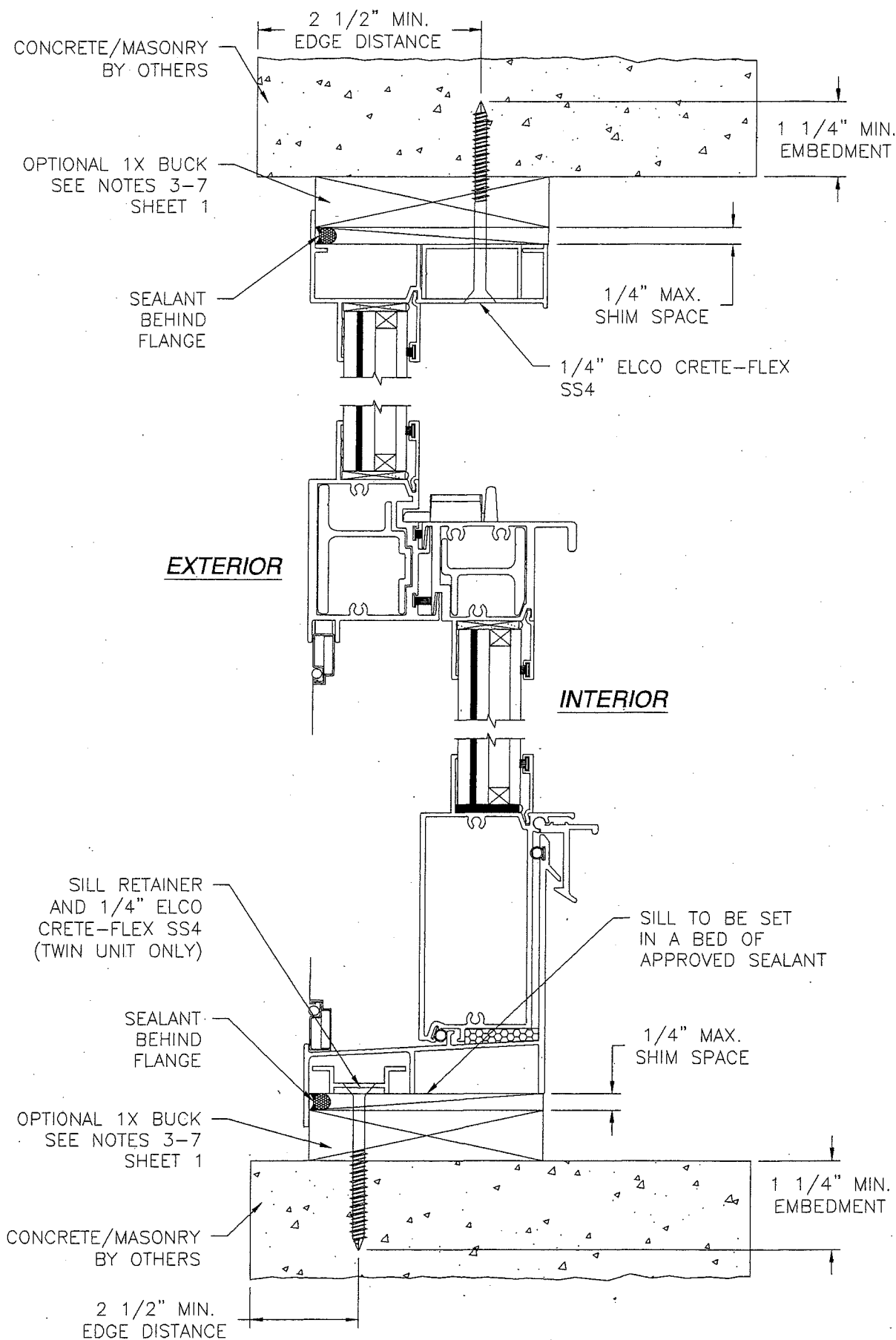
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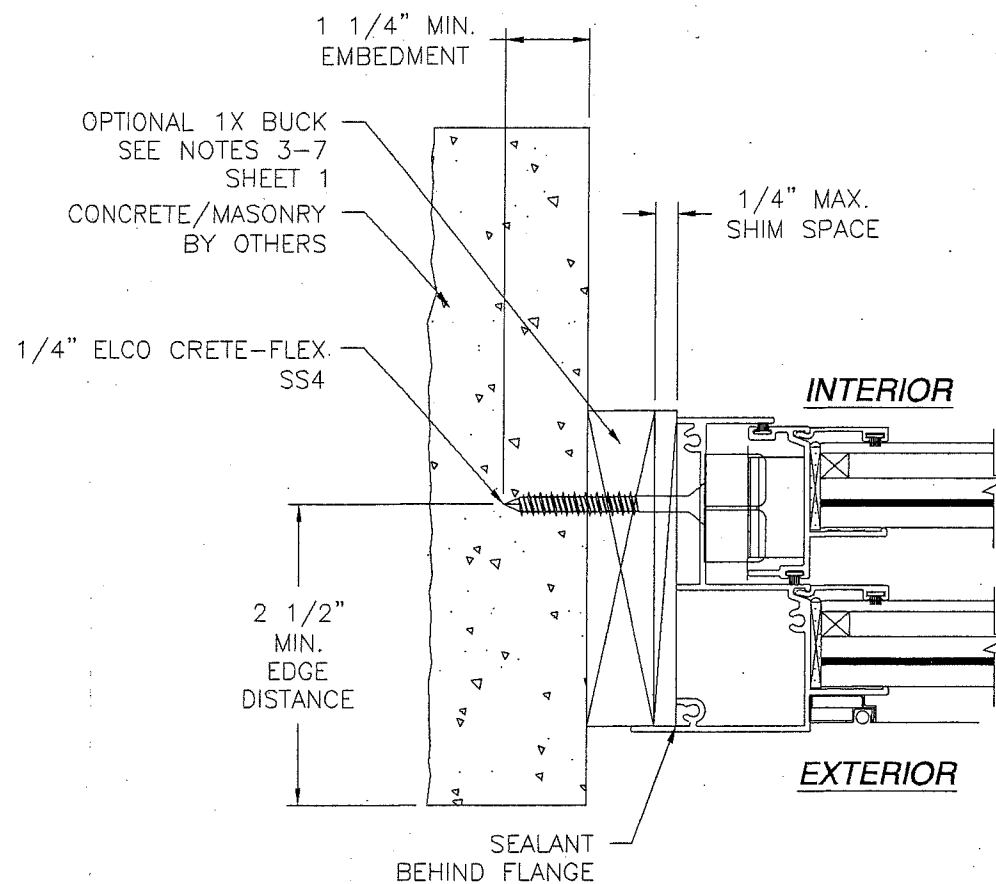
4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE - SMI
FLANGE INSTALLATION DETAILS

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A VERTICAL CROSS SECTION
10 CONCRETE/MASONRY INSTALLATION



B JAMB INSTALLATION DETAIL
10 CONCRETE/MASONRY INSTALLATION

NOTE:

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REVISIONS			
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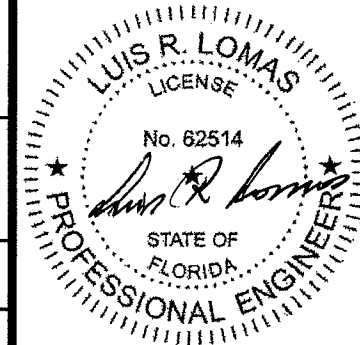
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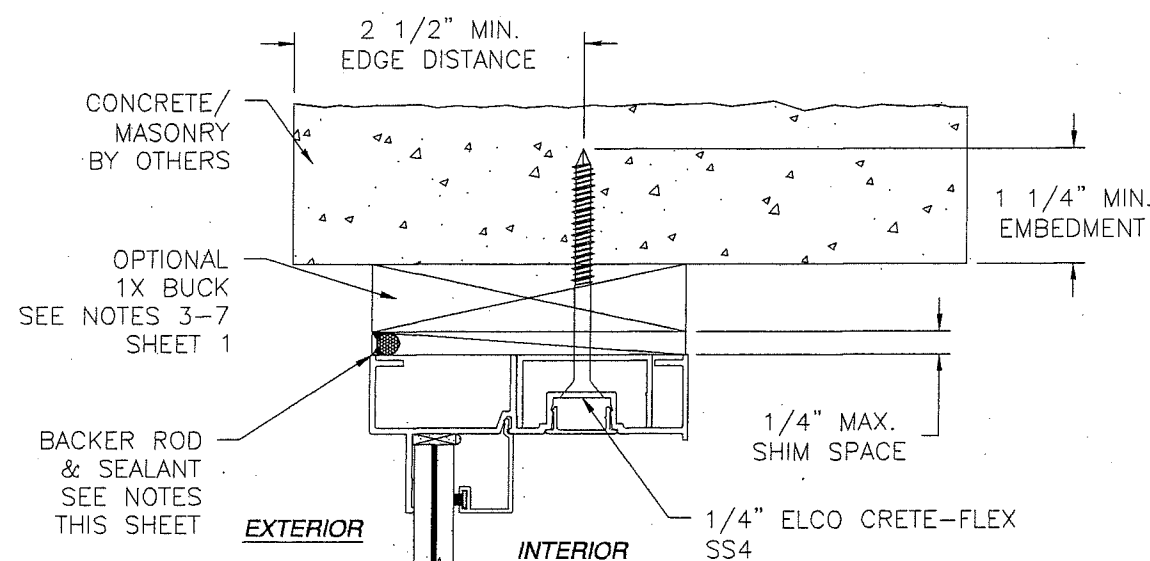
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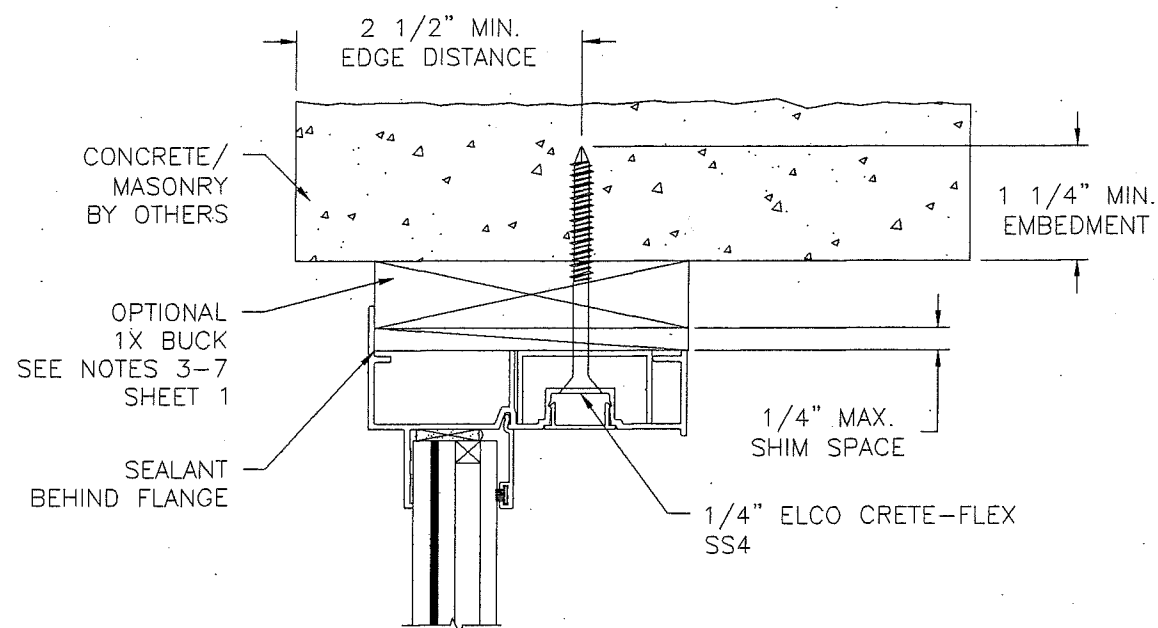
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SCALE NTS DATE 09/05/13 SHEET 10 OF 13



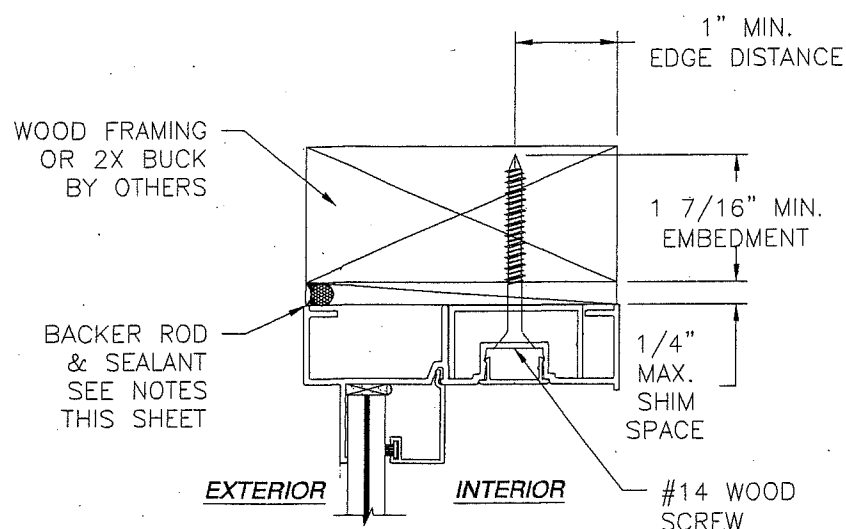
REVISIONS			
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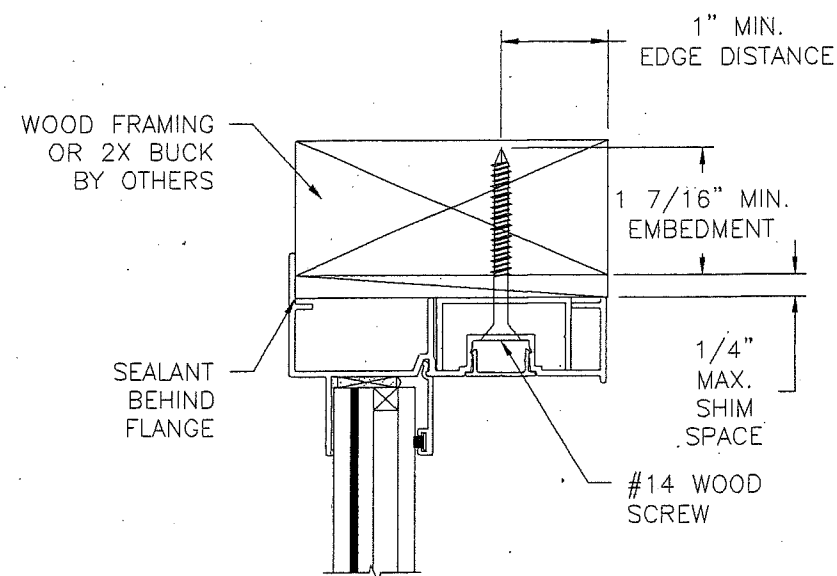
VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



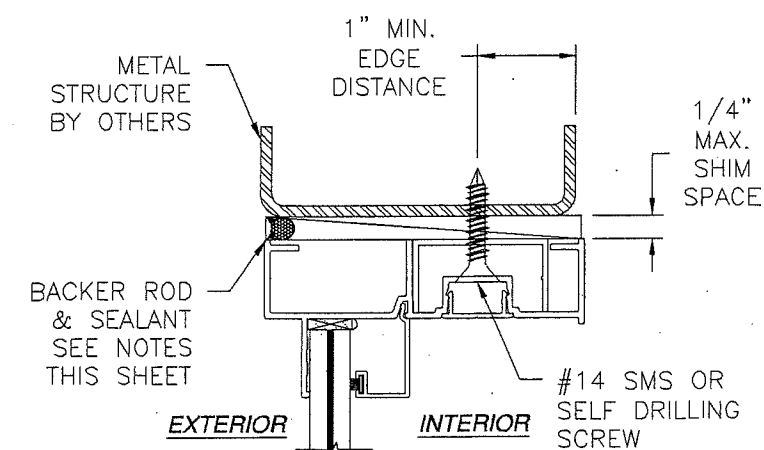
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CONCRETE/MASONRY INSTALLATION



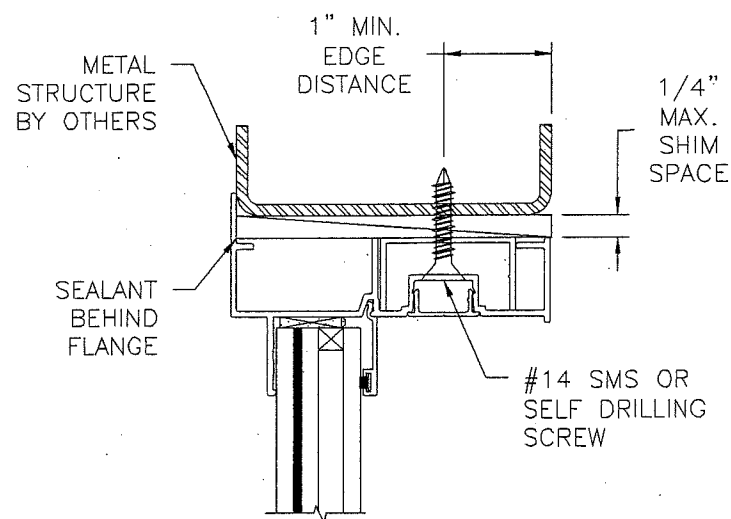
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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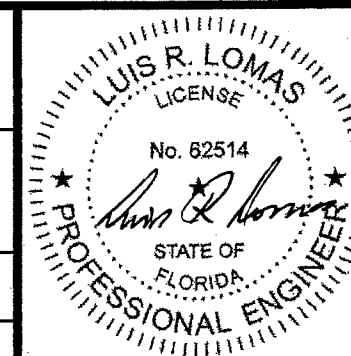
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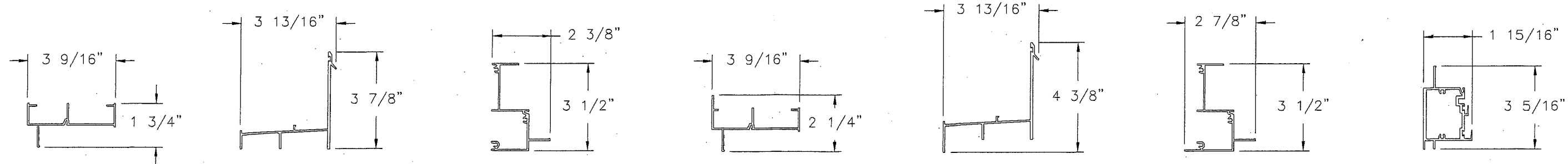
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ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505
www.windoorinc.com

4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE - SMI
INSTALLATION DETAILS

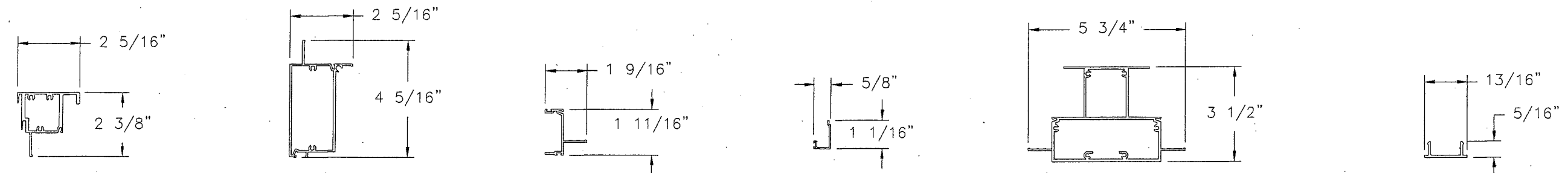
DRAWN: N.G.	DWG NO. 08-02217	REV C
SCALE NTS	DATE 09/05/13	SHEET 11 OF 13



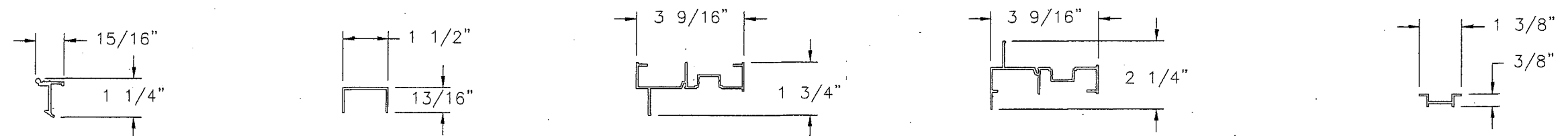
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED PER NEW REQUIREMENTS	11/29/17	R.L.



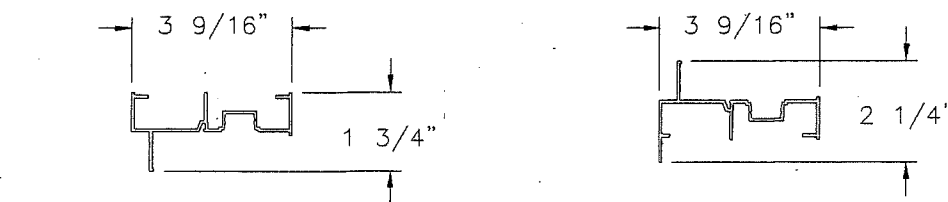
① **FRAME**
ALUMINUM 6063-T6 .063" THICK
 ② **FRAME SILL**
ALUMINUM 6063-T6 .072" THICK
 ③ **FRAME JAMB**
ALUMINUM 6063-T6 .063" THICK
 ④ **FRAME FLANGE**
ALUMINUM 6063-T6 .063" THICK
 ⑤ **FRAME SILL FLANGE**
ALUMINUM 6063-T6 .072" THICK
 ⑥ **FRAME JAMB FLANGE**
ALUMINUM 6063-T6 .063" THICK
 ⑦ **FIXED MEETING RAIL**
ALUMINUM 6063-T6 .077" THICK



⑧ **MEETING RAIL**
ALUMINUM 6063-T6 .063" THICK
 ⑨ **LIFT RAIL**
ALUMINUM 6063-T6 .063" THICK
 ⑩ **SASH JAMB**
ALUMINUM 6005-T5 .070" THICK
 ⑪ ⑫ **GLAZING STOP**
ALUMINUM 6063-T6 .040" THICK
 ⑬ **VERTICAL IMPOST**
ALUMINUM 6005-T61 .062" THICK
 ⑭ **HEAD RECESS COVER**
ALUMINUM 6063-T6 .063" THICK



⑮ **SILL SNAP LOCK**
ALUMINUM 6063-T6 .090" THICK
 ⑯ **HEAD FILLER**
ALUMINUM 6063-T6 .063" THICK
 ⑰ **SILL RETAINER**
ALUMINUM 6063-T6 .063" THICK

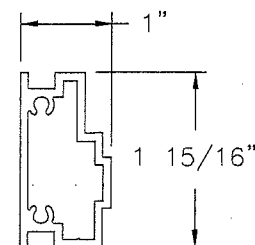


⑳ ⑳ **FRAME W/ CHANNEL**
ALUMINUM 6063-T6 .063" THICK

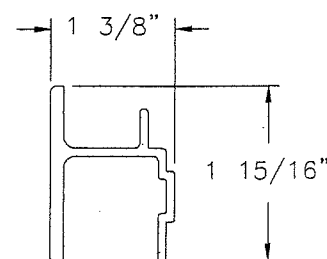
SIGNED: 02/19/2018

PRODUCT RENEWED as complying with the Florida Building Code NOA-No. 19-0130.04 Expiration Date 03/27/2024 By Miami-Dade Product Control	WinDoor INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
	4000 ALUMINUM SINGLE HUNG WINDOW SGP EQUAL LEG AND FLANGE - SMI COMPONENTS			
	DRAWN: N.G.	DWG NO. 08-02217	REV C	
	SCALE NTS	DATE 09/05/13	SHEET 12 OF 13	

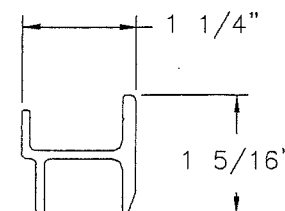
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED PER NEW REQUIREMENTS	11/29/17	R.L.



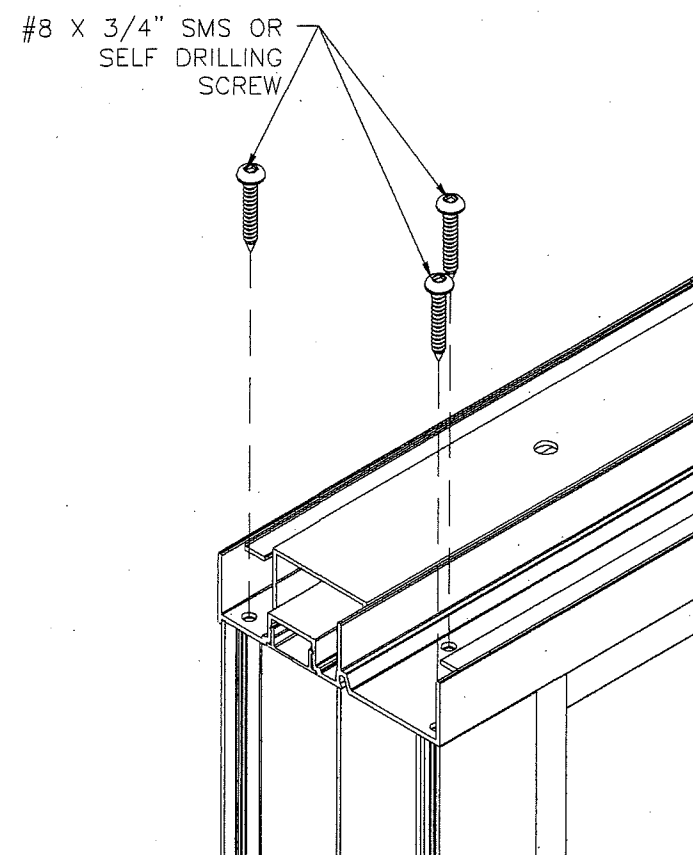
(35) SHEAR BLOCK
ALUMINUM 6063-T6 .090" THICK



(36) REINFORCEMENT
ALUMINUM 6005-T61 .090" THICK

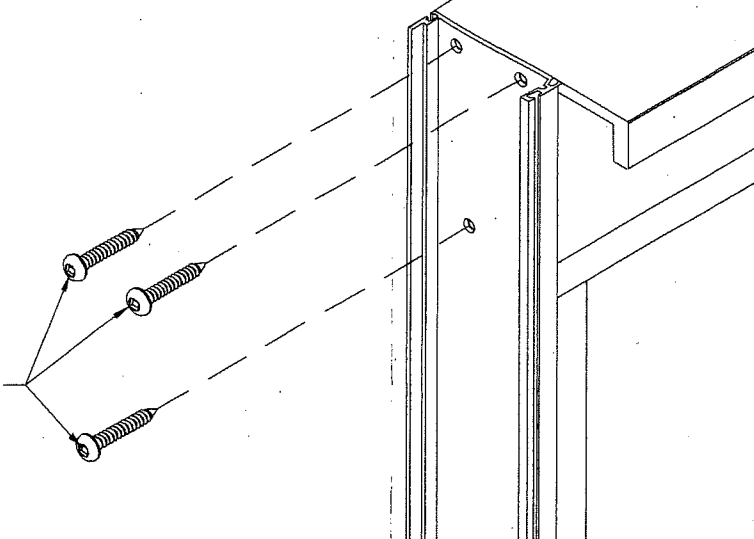


(37) REINFORCEMENT
ALUMINUM 6005-T61 .090" THICK

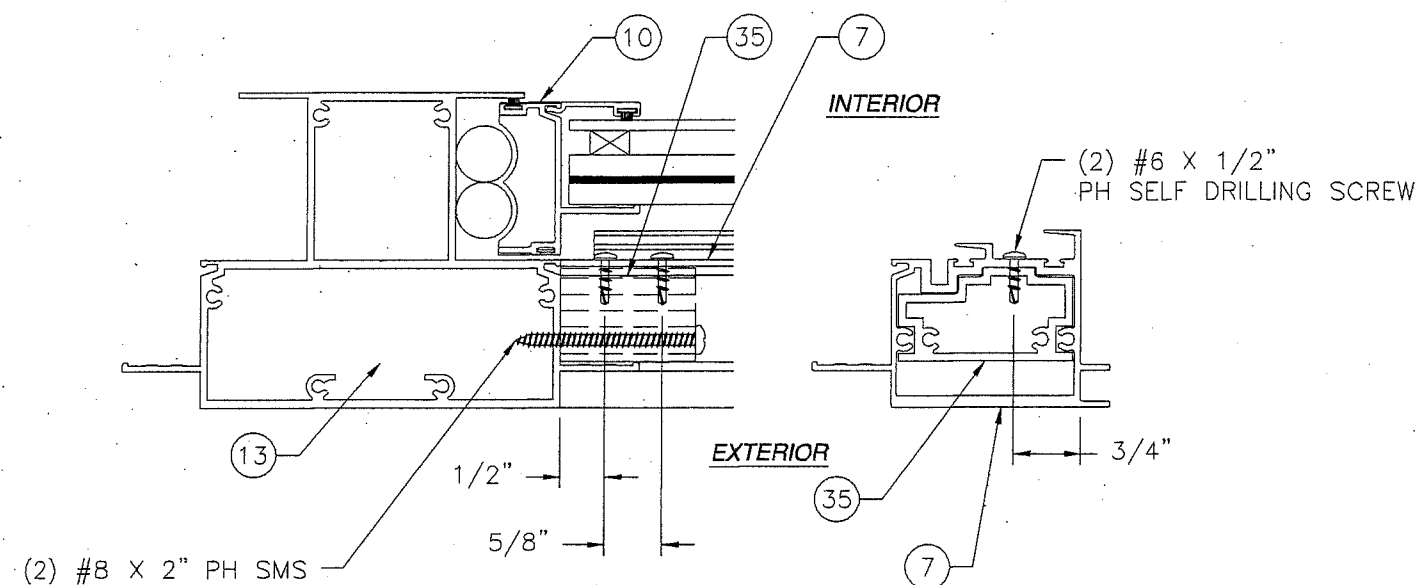


FRAME CORNER DETAIL

#8 X 3/4" SMS OR
SELF DRILLING
SCREW



SASH CORNER DETAIL



DETAIL E
SHEAR BLOCK INSTALLATION

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **19-0130.04**
Expiration Date **03/27/2024**
By *[Signature]*
Miami-Dade Product Control

WinDoor
INCORPORATED

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4000 ALUMINUM SINGLE HUNG WINDOW SGP
EQUAL LEG AND FLANGE - SMI
COMPONENTS

DRAWN: N.G. DWG NO. 08-02217 REV C
SCALE NTS DATE 09/05/13 SHEET 13 OF 13

SIGNED: 02/19/2018

