

QMI

STORMSAFE SCREEN - FIXED IMPACT SCREEN - NON-HVHZ

INSTALLATION AND ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) REQUIREMENTS OF WIND ZONE 4, MISSILE LEVEL D AT THE DESIGN PRESSURE(S) STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # CTLA 1366W-4, AND ASSOCIATED LABORATORY STAMPED DRAWINGS.

TESTING TO ASTM E1886-13A AND ASTM E1996-17 DOCUMENTED IN INTERTEK TEST REPORT NO. N3182.01-450-18 ADDRESSES REQUIREMENTS OF ASTM E1996 FOR SMALL MISSILE TESTING OF POROUS IMPACT PROTECTION DEVICES.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
3. IMPACT SCREEN MATERIAL: 304 STAINLESS STEEL
PANEL FRAME MATERIAL: 6005-T5 ALUMINUM ALLOY
4. A MINIMUM SEPARATION DISTANCE OF 1 INCH SHALL BE PROVIDED FOR ALL INSTALLATIONS.
5. MAXIMUM PANEL SIZE: 61.5" X 144.5"
6. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
7. THE DRAWING SECTIONS HEREIN DEPICT TYPICAL CONCRETE / MASONRY AND WOOD INSTALLATION ANCHORAGE CONNECTIONS. THESE DETAILS MAY BE USED INTERCHANGEABLY AS FIELD CONDITIONS DICTATE.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. NOT USED.
4. FOR INSTALLATION OF THE ALUMINUM SUBFRAME INTO WOOD FRAMING, USE #12 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT. MINIMUM EDGE DISTANCE IS 3/4 INCH.
5. FOR INSTALLATION OF THE ALUMINUM SUBFRAME THROUGH 1X BUCK TO CONCRETE / MASONRY OR DIRECTLY INTO CONCRETE / MASONRY, USE 1/4 INCH ITW TAPCONS MEETING THE FOLLOWING INSTALLATION REQUIREMENTS::
 - 5.1. CONCRETE SUBSTRATE
 - 5.1.1. 1 1/2 INCH MINIMUM EMBEDMENT.
 - 5.1.2. 1 1/2 MINIMUM EDGE DISTANCE.
 - 5.2. MASONRY (CMU) SUBSTRATE
 - 5.2.1. 1 INCH MINIMUM EMBEDMENT.
 - 5.2.2. 2 MINIMUM EDGE DISTANCE.
6. FOR INSTALLATION OF THE SCREEN FRAME INTO THE ALUMINUM SUBFRAME USE #12 X 3/4 INCH HEX HEAD SMS SCREWS
7. MINIMUM EDGE DISTANCE AND EMBEDMENT EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
8. FOR CONCRETE BLOCK APPLICATIONS, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
9. 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 BY THE ANCHOR MANUFACTURER.
10. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - 10.1. WOOD - MINIMUM SPECIFIC GRAVITY IS 0.42.
 - 10.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
 - 10.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT, DENSITY > 117 PCF.

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5	BILL OF MATERIALS & COMPONENTS

DESIGN PRESSURE RATING (PSF)	IMPACT RATING
+80.0/-80.0	WIND ZONE 4 MISSILE LEVEL D

1661 GLENLAKE AVE.
ITASCA, IL 60143

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FBPE CA. NO. 25835

DRAWN BY:

RJA

DATE:

12/09/12

SCALE:

N.T.S.

DRAWING NO.:

QMI0001

REV:

B

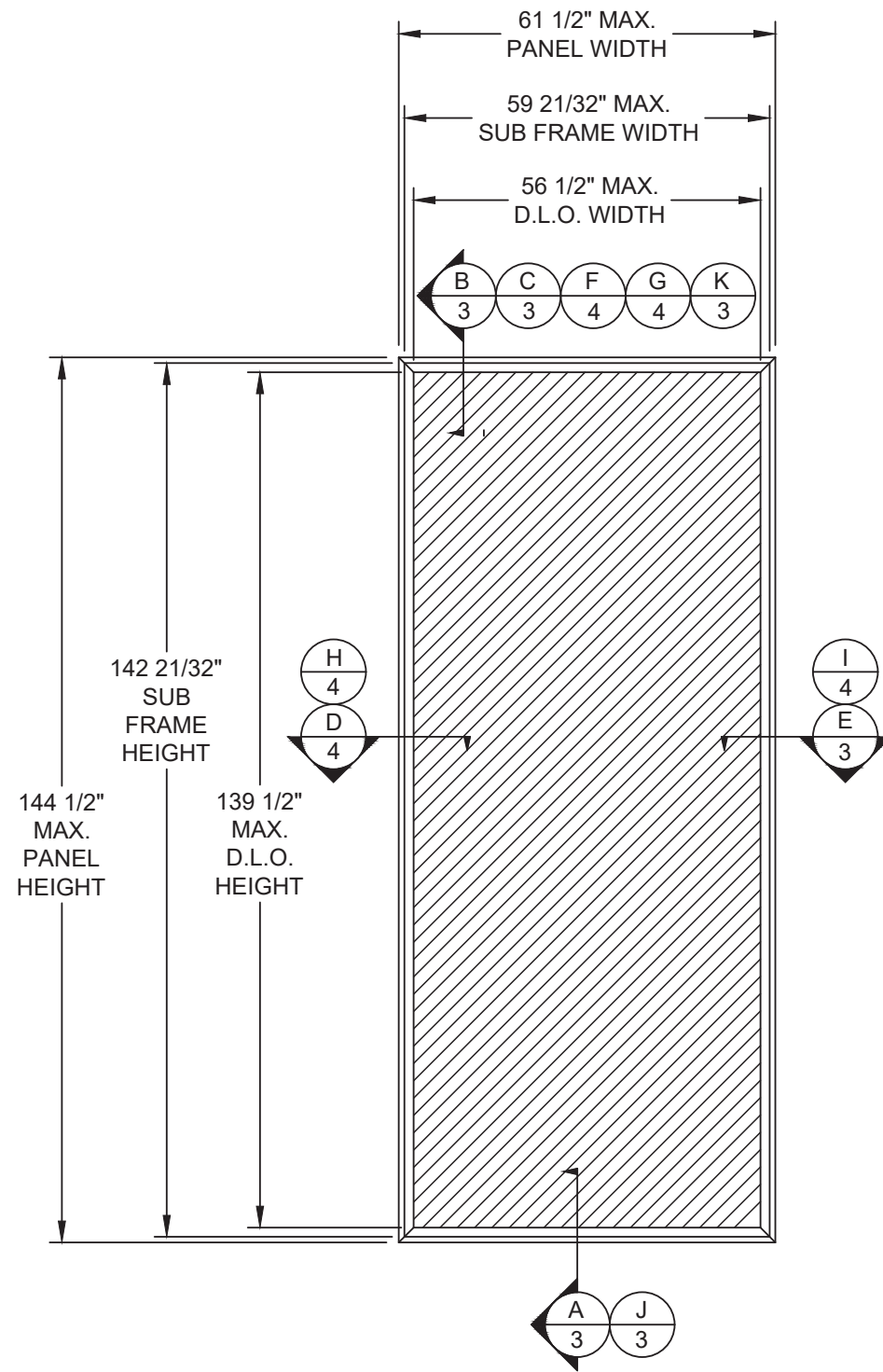
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1 OF 5

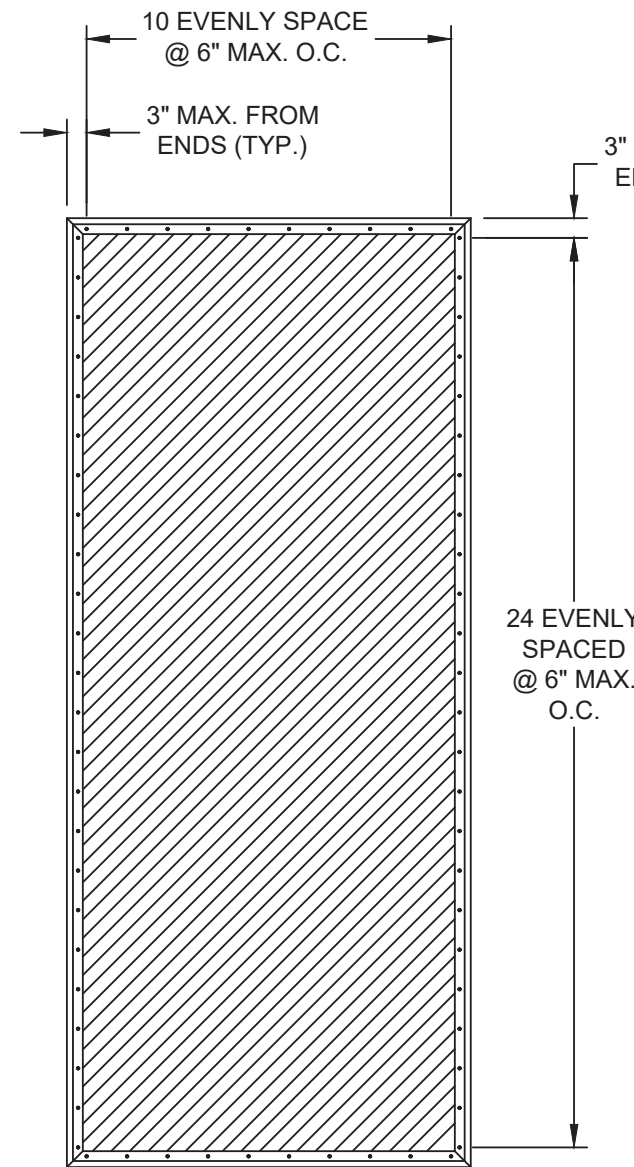
PROJECT #423-0305

	UPDATED TO 8TH ED. (2023) FBC	9/25/23	RJA
	UPDATED TO 5TH ED. (2014) FBC	5/6/15	RJA
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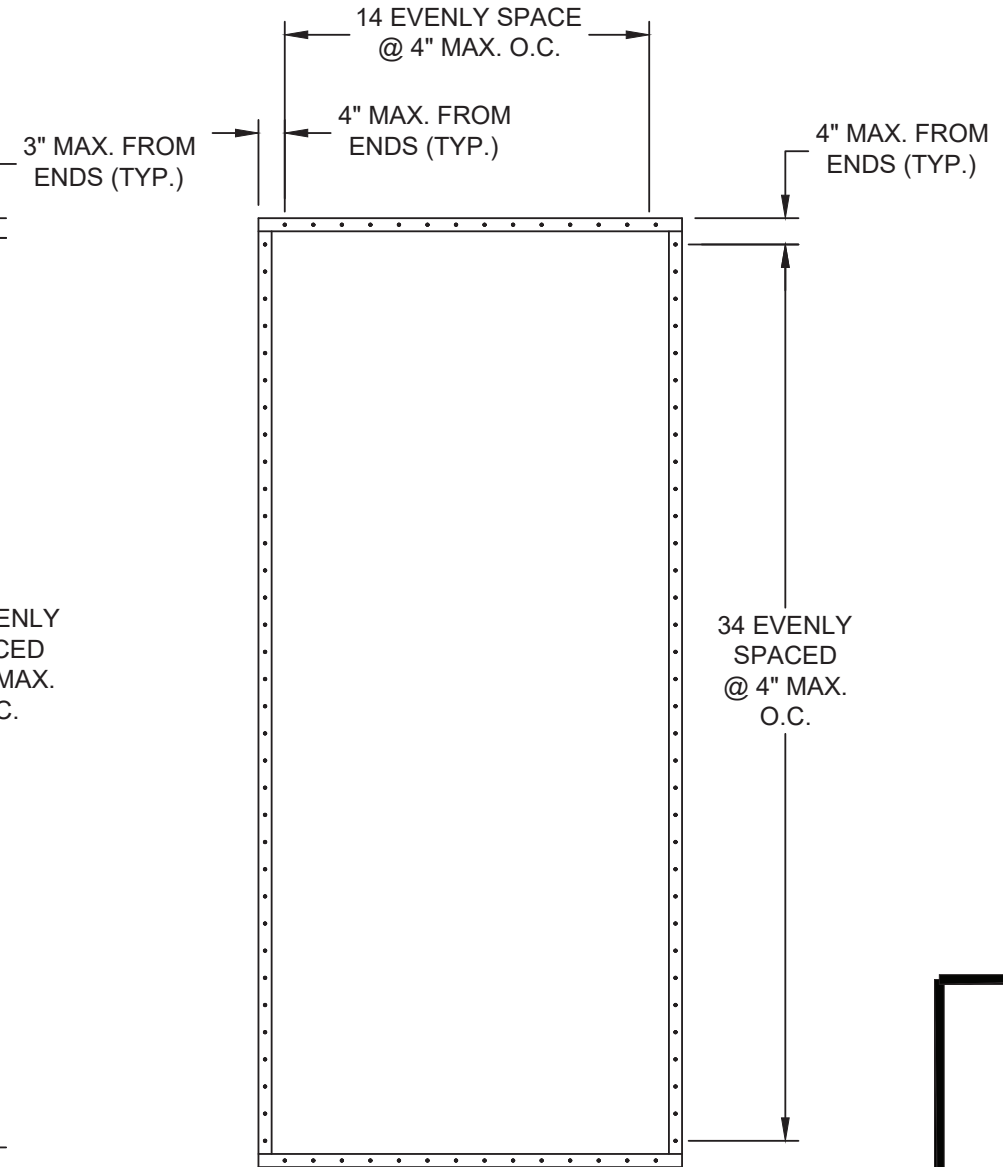
Robert J. Amoruso, P.E.
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ELEVATION
EXTERIOR VIEW



ANCHOR LAYOUT
SCREEN FRAME TO
ALUMINUM TUBING



ANCHOR LAYOUT
ALUMINUM TUBE OR SCREEN FRAME
TO SUBSTRATE

PROJECT #423-0305

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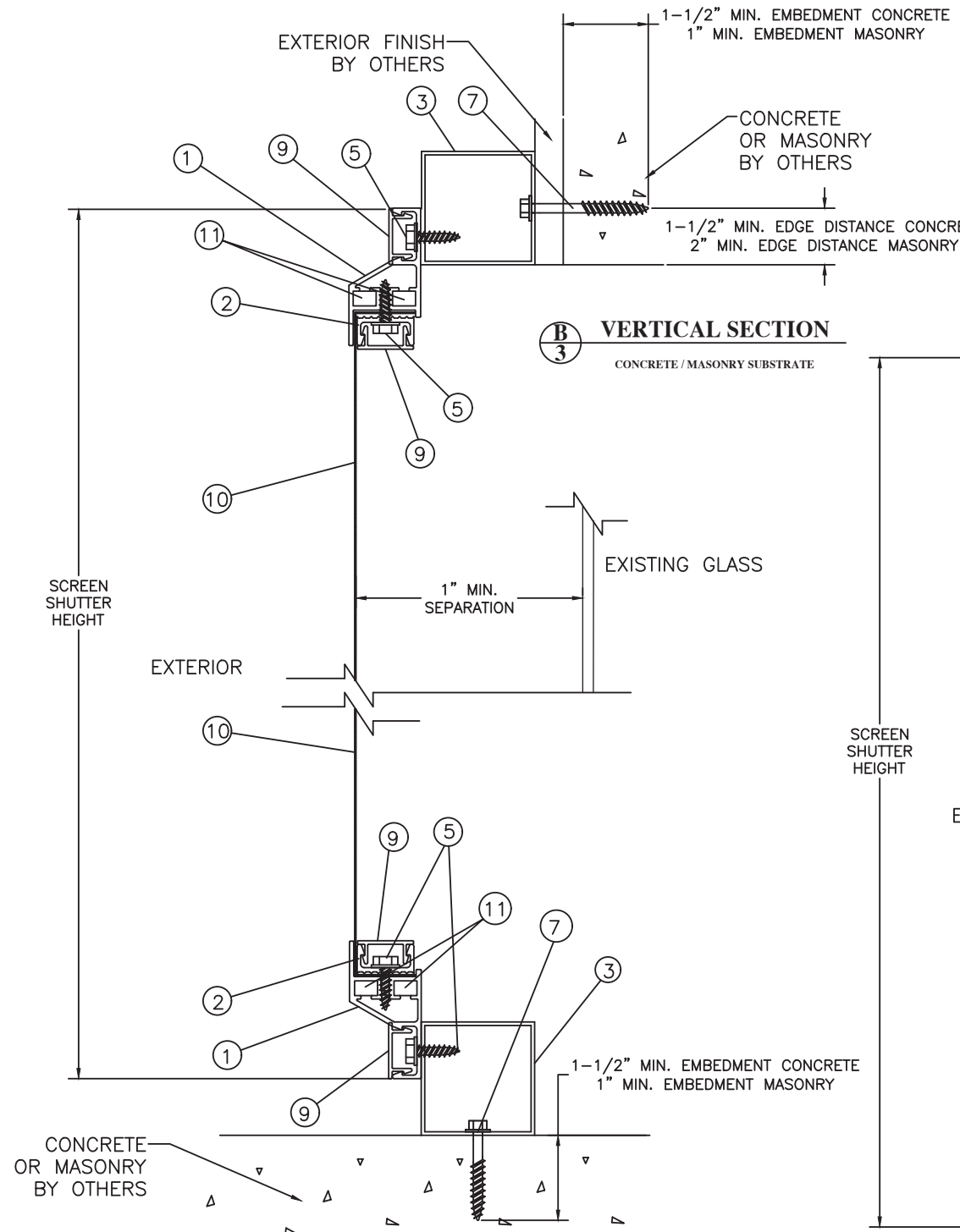
QMI
TITLE: STORMSAFE SCREEN - FIXED IMPACT SCREEN - NON-HVHZ
ELEVATION & ANCHOR LAYOUTS

REV	DESCRIPTION	DATE	BY
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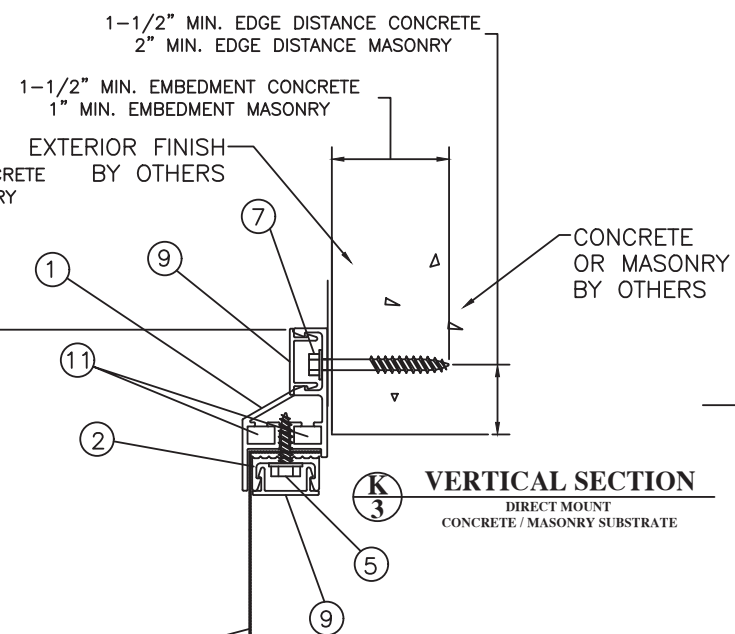
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SCALE:	N.T.S.	DRAWING NO.:	QMI0001
REV:	B	SHEET:	2 OF 5

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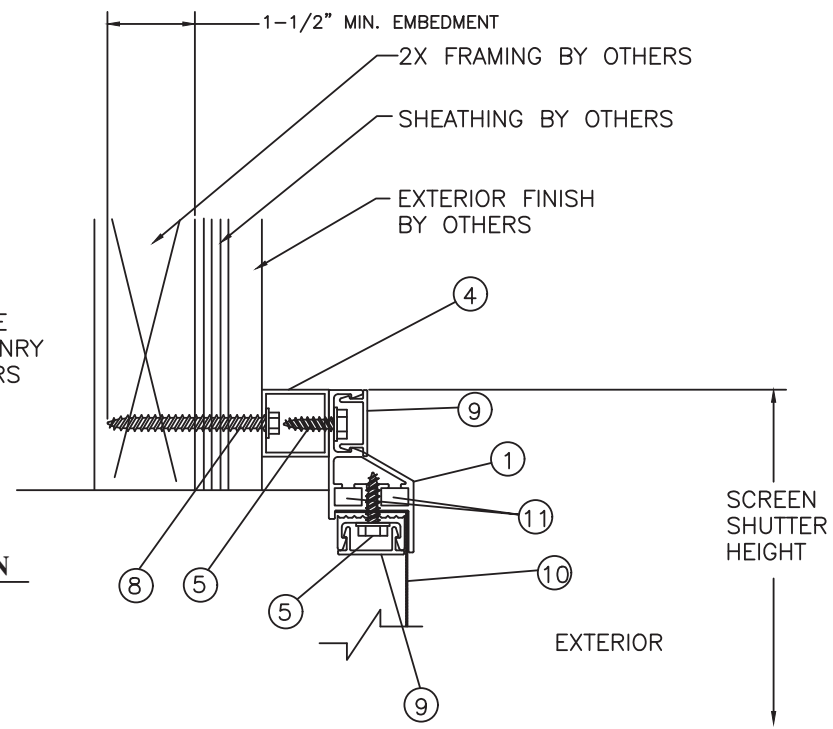
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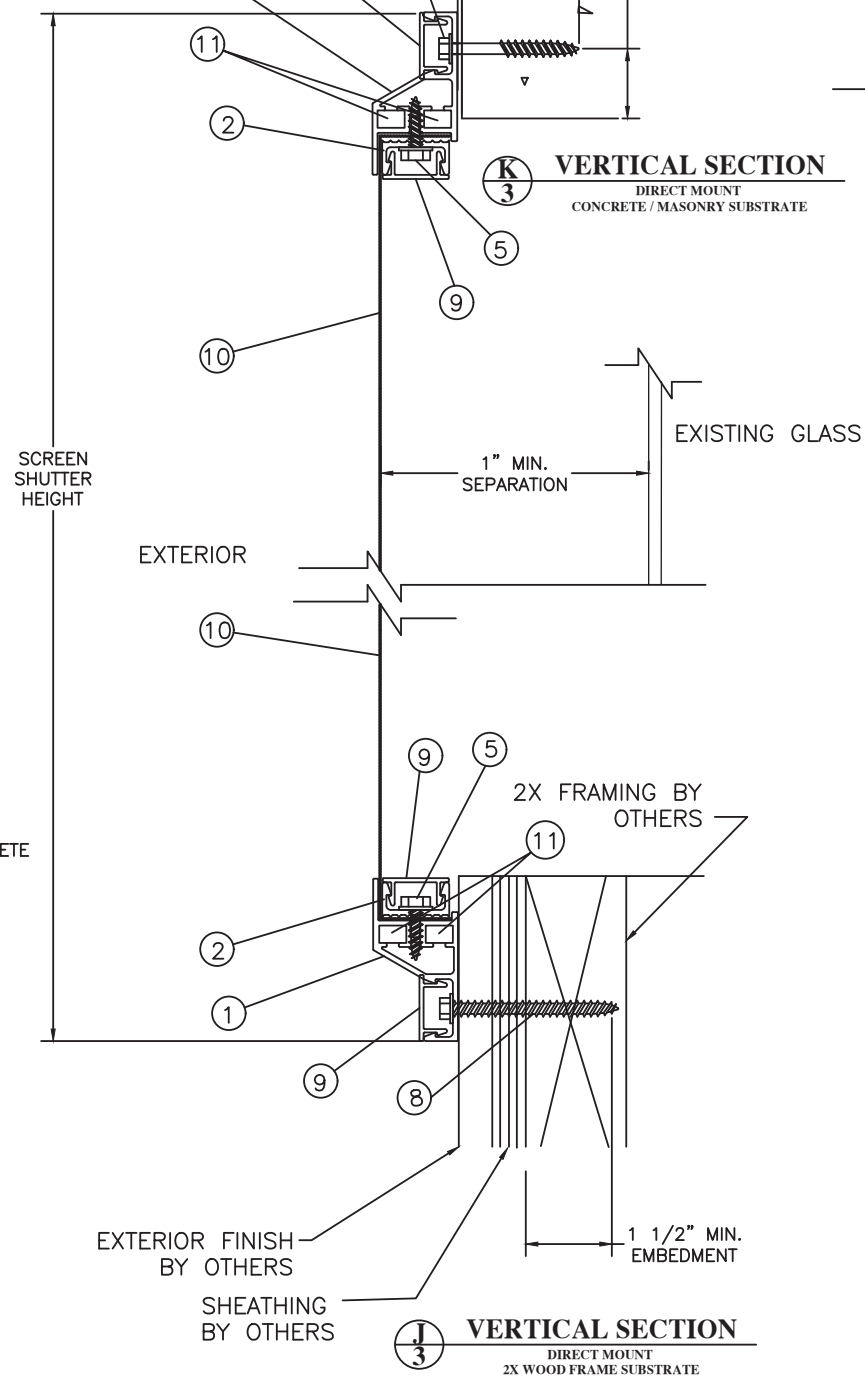
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CONCRETE / MASONRY SUBSTRATE



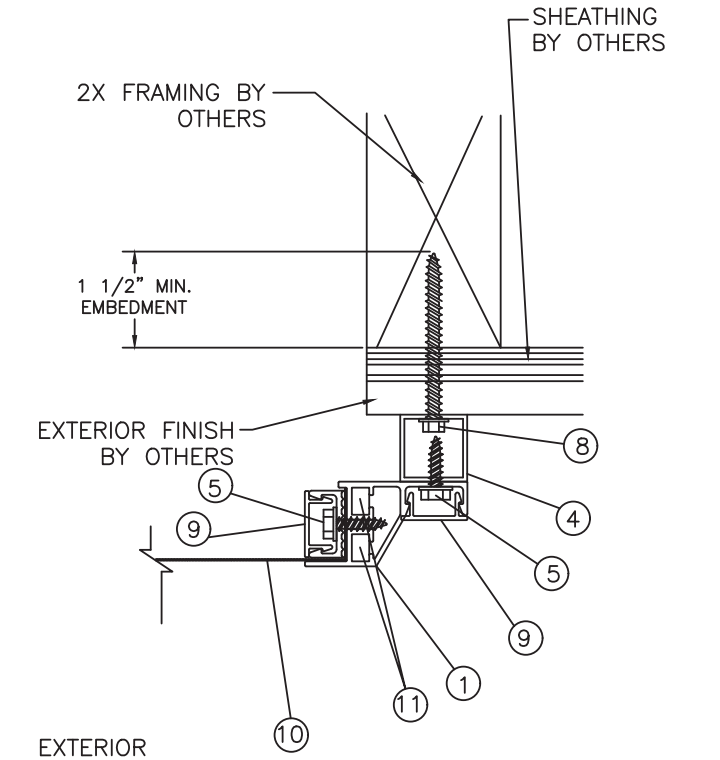
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VERTICAL SECTION
DIRECT MOUNT
CONCRETE / MASONRY SUBSTRATE



C
3
VERTICAL SECTION
SHOWN IN 2X WOOD FRAMING



J
3
VERTICAL SECTION
DIRECT MOUNT
2X WOOD FRAME SUBSTRATE



E
3
HORIZONTAL SECTION
SHOWN IN 2X WOOD FRAMING
2X FRAMING BY OTHERS

- NOTES:
- 2" ALUMINUM TUBE HAS A 1" MIN. EDGE DISTANCE WITH NO SETBACK FROM EDGE OF CONCRETE/MASONRY AT INSTALLATION.
 - 1" ALUMINUM TUBE HAS A 1" MIN. EDGE DISTANCE WITH 1/2" SETBACK FROM EDGE OF CONCRETE/MASONRY AT INSTALLATION.

A
3
VERTICAL SECTION
CONCRETE / MASONRY SUBSTRATE

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PRE
STORMSAFE SCREEN - FIXED IMPACT SCREEN - NON-HVHZ
VERTICAL & HORIZONTAL SECTIONS

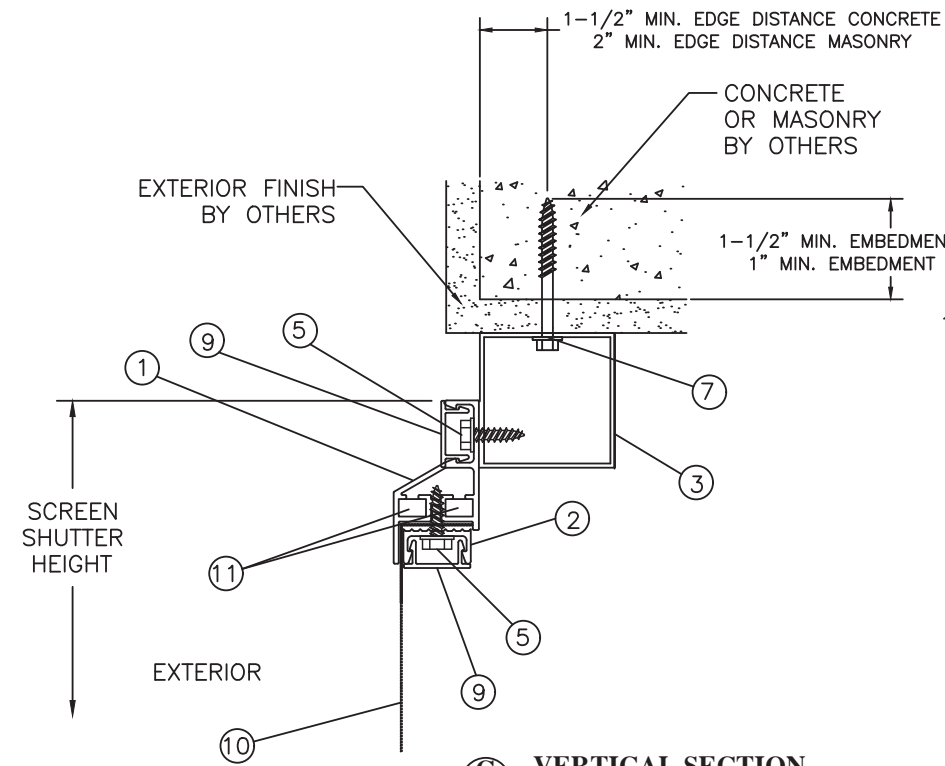
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REV:	B
SHEET:	3 OF 5

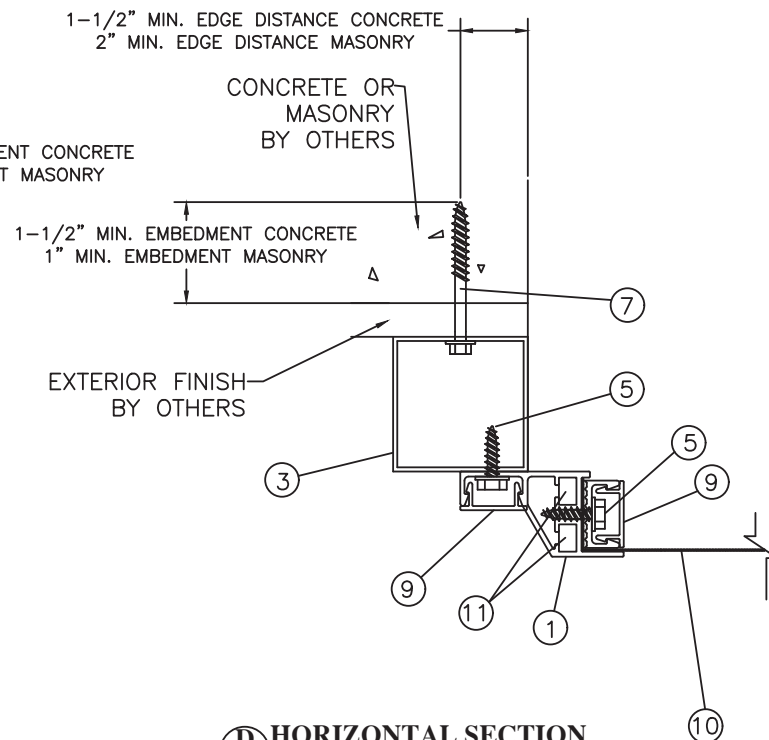
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DATE: 9/25/23
DESCRIPTION: UPDATED TO 8TH ED. (2023) FBC
DATE: 5/6/15
DESCRIPTION: UPDATED TO 5TH ED. (2014) FBC
BY: RJA

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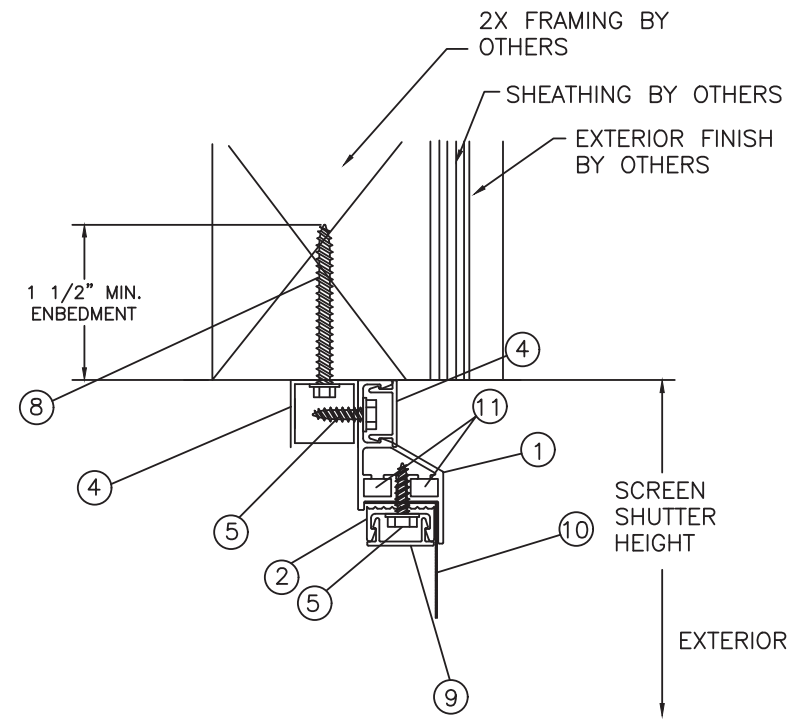
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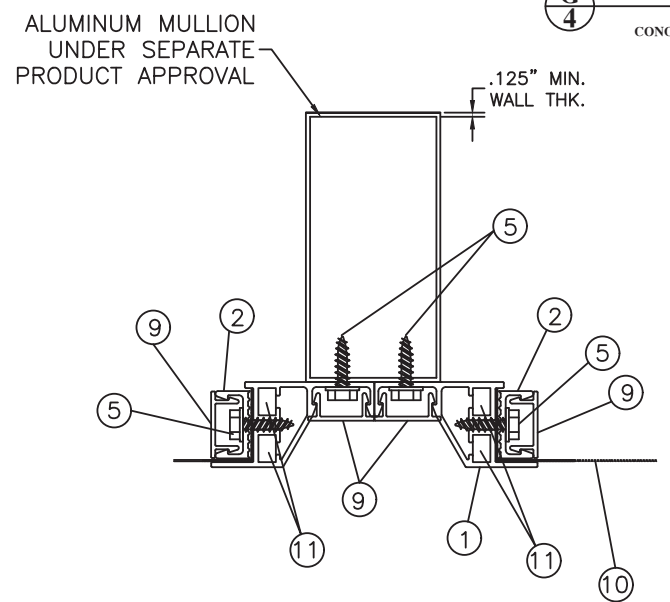
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VERTICAL SECTION
CONCRETE / MASONRY SUBSTRATE



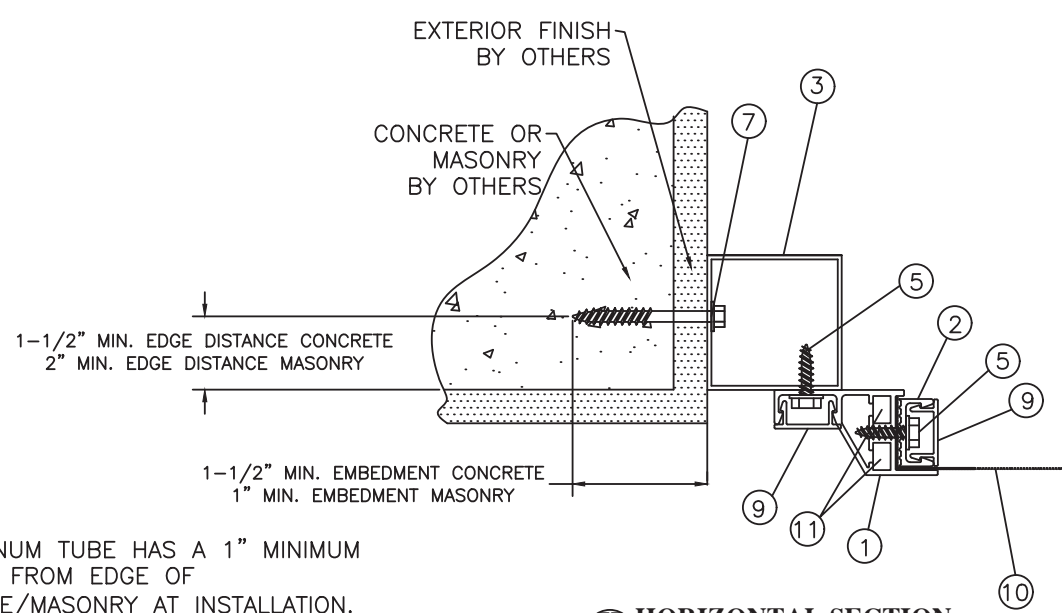
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HORIZONTAL SECTION
CONCRETE / MASONRY SUBSTRATE



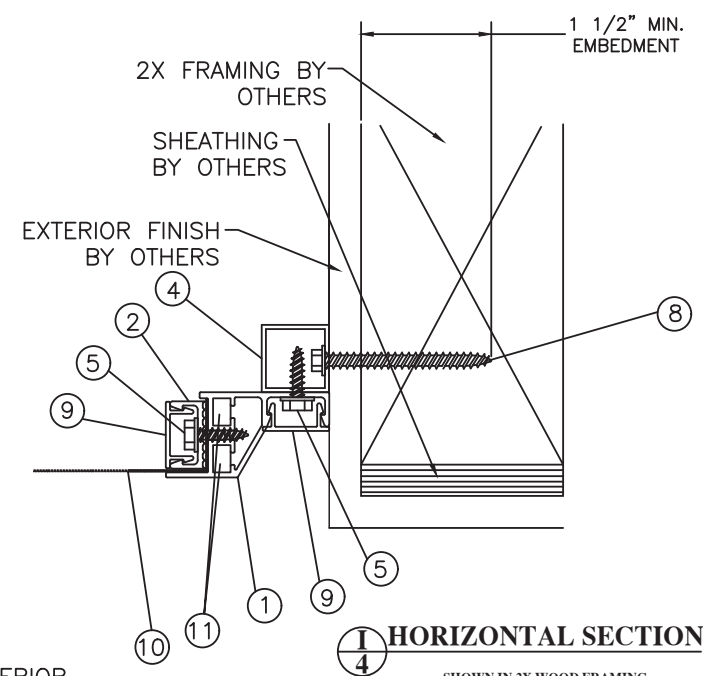
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VERTICAL SECTION
CONCRETE / MASONRY SUBSTRATE



**OPTIONAL ALUMINUM MULLION
INSTALLATION**
MULLION UNDER SEPARATE
PRODUCT APPROVAL



H
4
HORIZONTAL SECTION
CONCRETE / MASONRY SUBSTRATE



I
4
HORIZONTAL SECTION
SHOWN IN 2X WOOD FRAMING

- NOTES:**
1. 2" ALUMINUM TUBE HAS A 1" MINIMUM SETBACK FROM EDGE OF CONCRETE/MASONRY AT INSTALLATION.
 2. 1" ALUMINUM TUBE HAS A 1 1/2" MINIMUM SETBACK FROM EDGE OF CONCRETE/MASONRY AT INSTALLATION.

PROJECT #423-0305

		RJA	BY
	9/25/23	RJA	DATE
UPDATED TO 8TH ED. (2023) FBC			
UPDATED TO 5TH ED. (2014) FBC			
REV	DESCRIPTION		

1661 GLENLAKE AVE.
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TITLE: STORMSAFE SCREEN - FIXED IMPACT SCREEN - NON-HVHZ
VERTICAL & HORIZONTAL SECTIONS

PREPARED BY: PFC

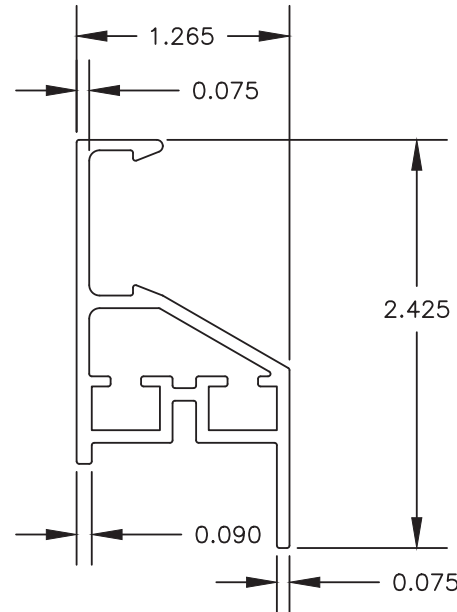
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DRAWING NO: QMI0001
SHEET: 4 OF 5

DRAWN BY: RJA
SCALE: N.T.S.
REV: B

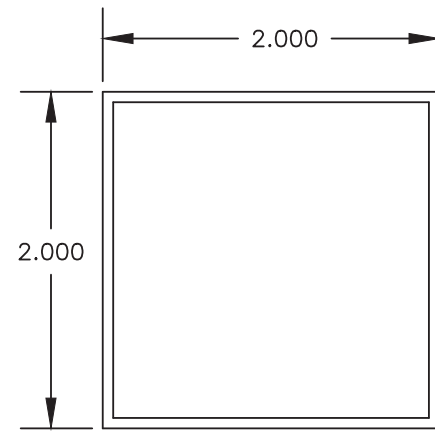
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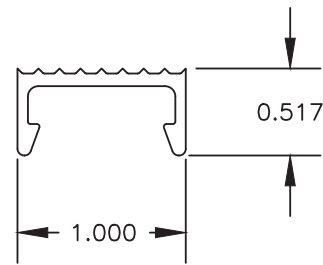
① FRAME HEAD, SILL & JAMB
TYP. WALL THICKNESS 0.075



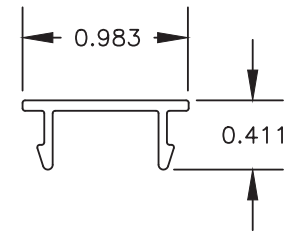
③ 2" X 2" ALUMINUM TUBE
TYP. WALL THICKNESS 0.062



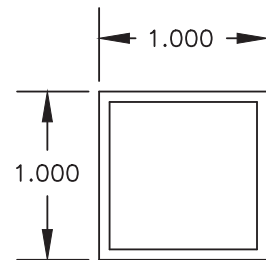
② WIRE RETAINER
TYP. WALL THICKNESS 0.075



⑨ SCREW COVER
TYP. WALL THICKNESS 0.050



④ 1" X 1" ALUMINUM TUBE
TYP. WALL THICKNESS 0.062



BILL OF MATERIALS

ITEM #	DESCRIPTION
1	FRAME HEAD, SILL & JAMB 6005-T5 ALUMINUM
2	WIRE RETAINER 6005-T5 ALUMINUM
3	2" X 2" X 1/16" ALUMINUM TUBE 6063-T5
4	1" X 1" 1/16" ALUMINUM TUBE 6063-T5
5	#12-14 X 3/4" HEX HEAD TEK SCREW
6	NOT USED
7	1/4" HH I.T.W. TAPCON
8	NO. 12 HH SELF TAPPING SCREW (SHOWN) OR WOOD SCREW
9	SCREW COVER
10	MESH 12X12 SCREEN SS 304 THREAD 0.028" OR 0.032" THICK
11	CORNER KEY 2" X 2" X 0.40" X 1/4"

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COMPONENTS & BILL OF MATERIALS

DATE:	12/09/12
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SHEET:	5 OF 5
DRAWN BY:	RJA
SCALE:	N.T.S.
REV:	B

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