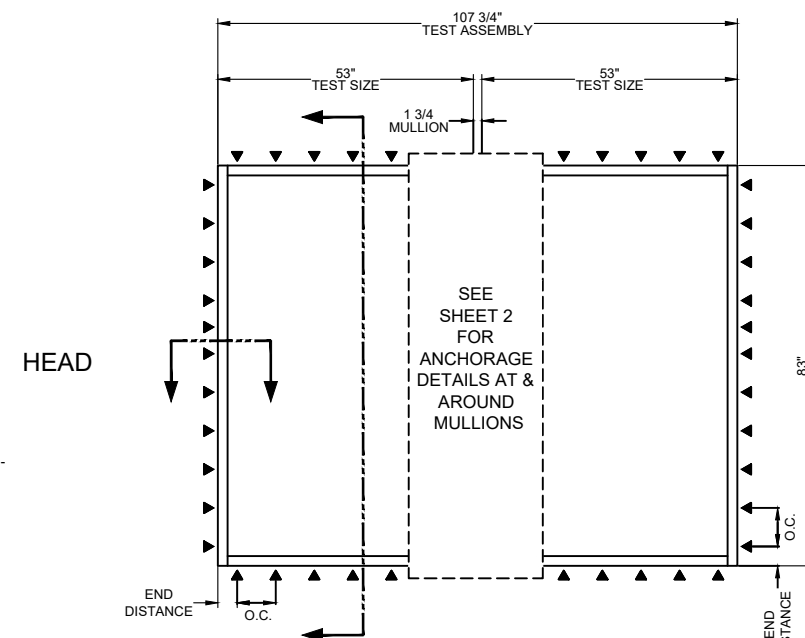
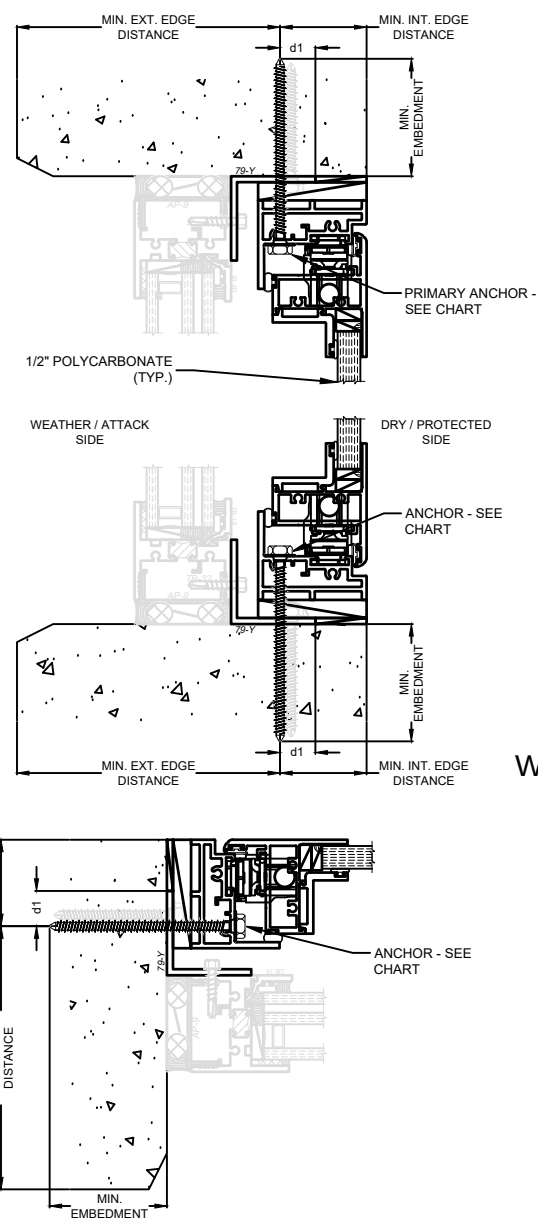
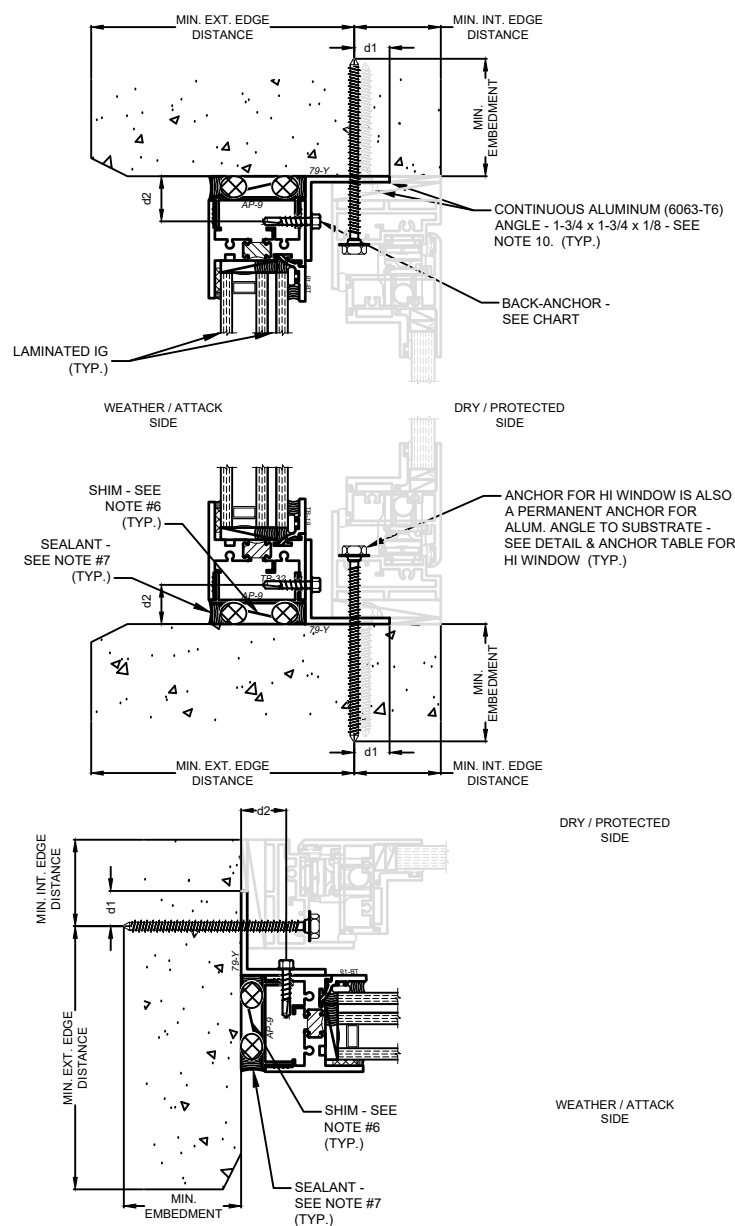


"BACK" ANCHOR (TRIM AROUND RO TO FRAME)

		PRIMARY ANCHOR (TO SUBSTRATE CONDITION)							"BACK" ANCHOR (TRIM AROUND RO TO FRAME)					
SUBSTRATE	LOCATION	HARDWARE (ACCEPTABLE TRADE NAME OR EQUIVALENT)	O.C. SPACING (MAX) ZONE 4	O.C. SPACING (MAX) ZONE 5	END DISTANCE (MAX)	EMBEDMENT (MIN)	SUBSTRATE EDGE DISTANCE (MIN)	d1 INSTALL DIMENSION	HARDWARE (ACCEPTABLE TRADE NAME OR EQUIVALENT)	O.C. SPACING (MAX) ZONE 4	O.C. SPACING (MAX) ZONE 5	END DISTANCE (MAX)	EMBEDMENT (MIN)	d2 INSTALL DIMENSION
CONCRETE (3,000 PSI) - OUTBOARD (WIND-BORNE DEBRIS IMPACT) WINDOW	HEAD	RESTRAINED BY PRIMARY ANCHOR AT HUMAN IMPACT WINDOW - SEE BELOW							#12-24 TEK SCREW	12"	12"	1"	3 THREADS	1"
	SILL													
	JAMB													
CONCRETE (3,000 PSI) - INBOARD (HUMAN IMPACT) WINDOW	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	6"	6"	4"	2-1/2"	INT.: 1-3/4" EXT.: 3"	3/4"						
	SILL													
	JAMB													

(SEE SHEET 2 FOR SPECIAL CONDITION AT MULLIONS)

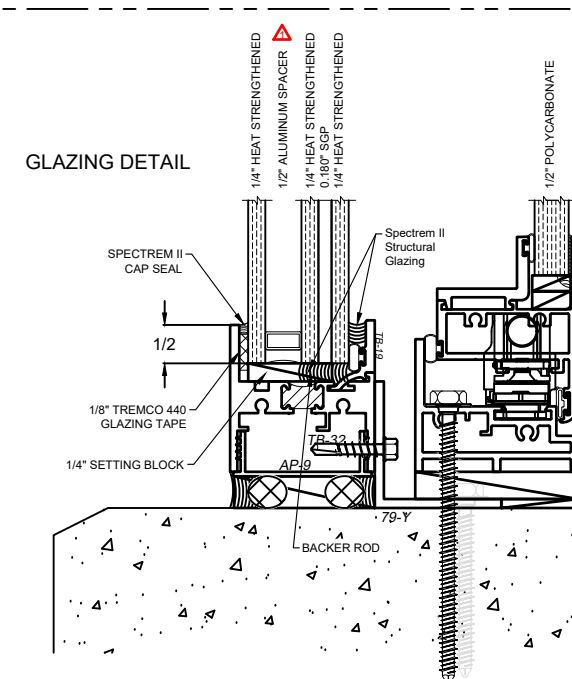
INBOARD WINDOW / SASH
(HUMAN IMPACT)



SILL

Wayne K Helmila

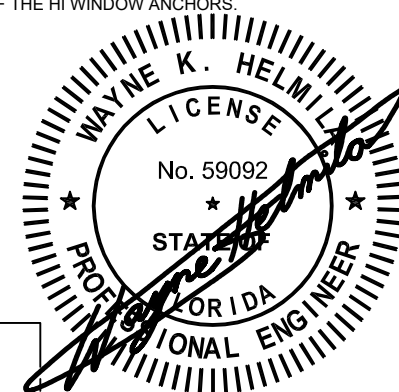
JAMBS



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



01/08/2025
COA: 9090

Rev.	Description	Date
△	spacer material added	1-2-2025
△		
△		
△		
△		

Scale:	Drawn by:
NONE	B. FOOTE

WINCO WINDOW CO.

6200 MAPLE AVE.
ST. LOUIS, MO 63130
PHONE: 314-725-8088

WINCO Product:
1150 FX-FX w/ HUMAN IMPACT SASH
SHEET 1 OF 3

Installation:

Certification: I MI - 1150 - F MISSII F

ENLARGED ELEVATION VIEW AT SILL
(HEAD SAME) CLIP ANGLE ATTACHMENT
TO BASE PLATE AND TUBE MULLION

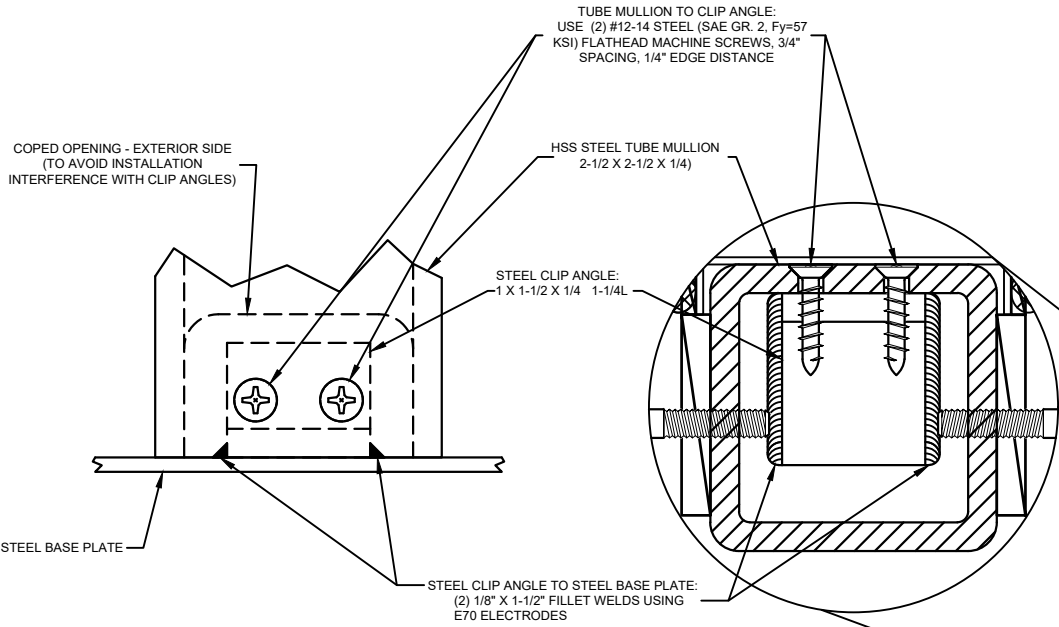


TABLE 2 - ANCHORAGE OF HUMAN IMPACT WINDOW JAMBS AT TUBE MULLION						
SUBSTRATE	LOCATION	HARDWARE (ACCEPTABLE TRADE NAME OR EQUIVALENT)	ANCHOR (TO SUBSTRATE CONDITION)			
			O.C. SPACING (MAX) ZONE 4	O.C. SPACING (MAX) ZONE 5	END DISTANCE (MAX)	EMBEDMENT (MIN)
HSS STEEL TUBE MULLION - INBOARD (HUMAN IMPACT) WINDOW	JAMB	1/4"-20 SAE GR. 5 HEX/HWH (HILTI KWIK FLEX, DEWALT DRIL-FLEX)	6"	6"	4"	3 THREADS

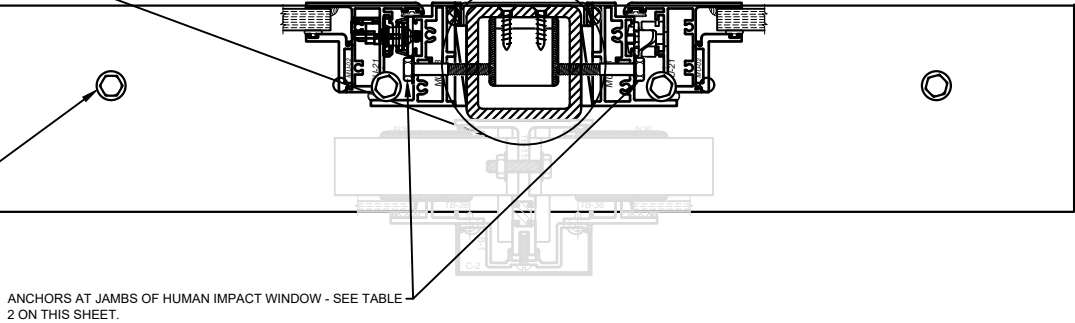
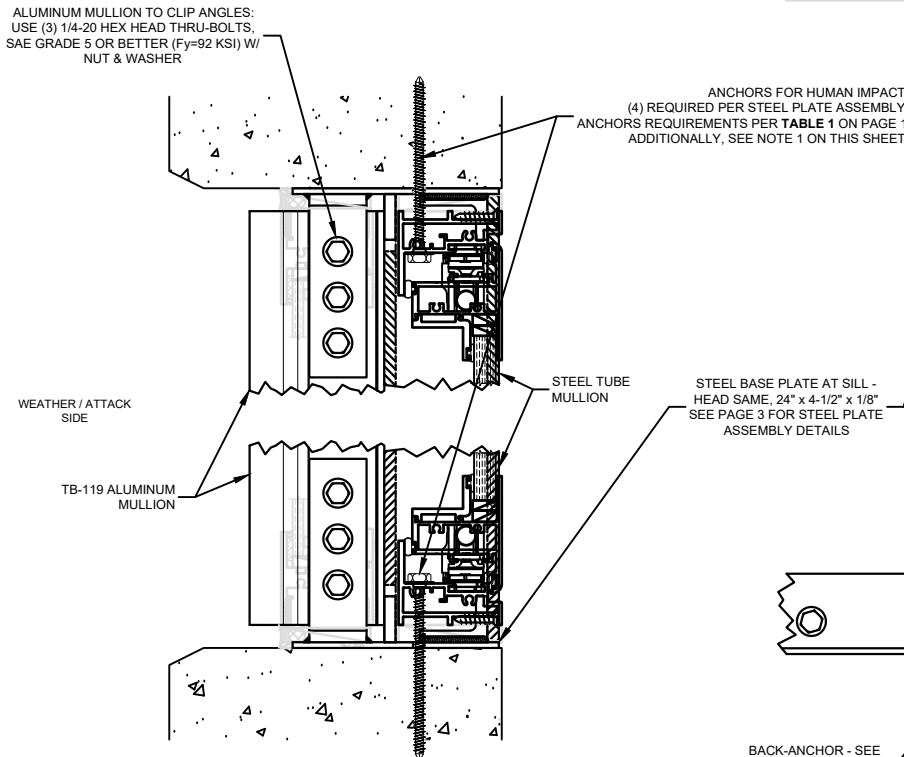
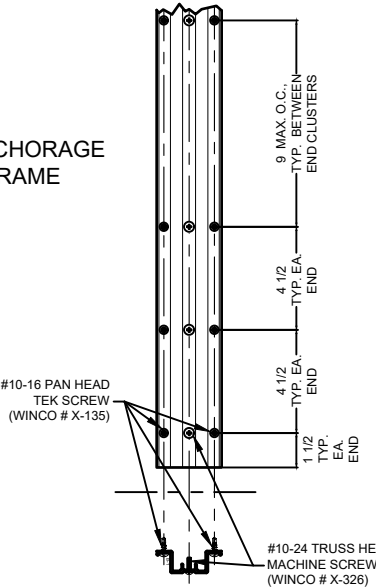
1. PROVIDE TEMPORARY ANCHORAGE FOR THE 24"x 4-1/2" x 1/8" STEEL BASE PLATES IN THE ROUGH OPENING PRIOR TO INSTALLATION OF OUTBOARD (PRIMARY) OR INBOARD (HUMAN IMPACT) WINDOWS. THE BASE PLATES WILL ULTIMATELY BE SECURED TO THE SUBSTRATE VIA THE ALUMINUM CLIP ANGLE ANCHORS FOR THE PRIMARY WINDOWS & THE HI WINDOW ANCHORS. IF CONCRETE FASTENERS ARE USED TO TEMPORARILY ANCHOR THE BASE PLATES, THE ANCHORS SHALL BE REMOVED AND THE HOLES IN-FILLED WITH EPOXY GROUT PRIOR TO INSTALLATION OF THE PERMANENT PRIMARY & HI WINDOW ANCHORS.
2. STEEL FOR BASE PLATES AND CLIPS ANGLES (ASTM A36, Fy=36 KSI) & TUBE MULLIONS (ASTM A500, GR. C, Fy=>50 KSI) SHALL BE COATED WITH PRIMER TO PREVENT DIRECT CONTACT OF DISSIMILAR METALS & PROVIDE GENERAL CORROSION RESISTANCE.
3. SEE SHEET 3 FOR ADDITIONAL FABRICATION DIMENSIONS FOR BASE PLATES.

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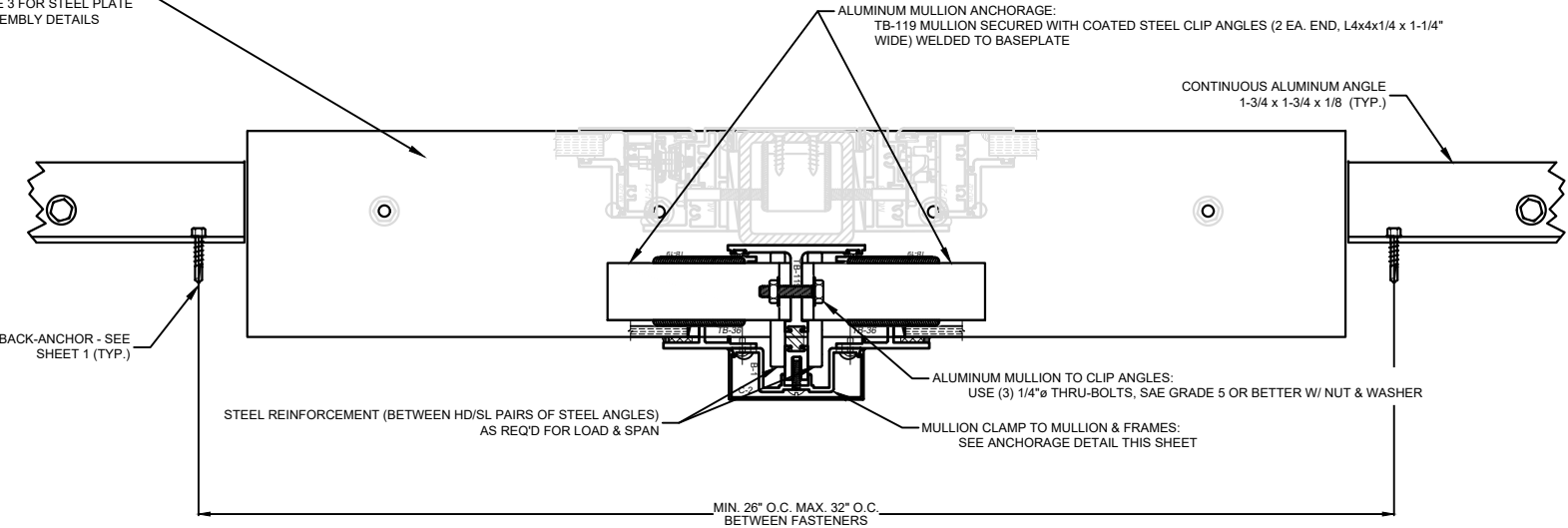
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com

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

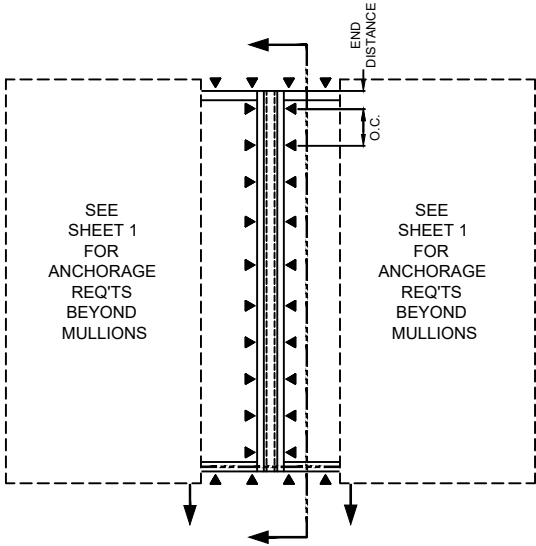
MULLION CLAMP ANCHORAGE
TO MULLION & FRAME



PLAN VIEW AT SILL (HEAD SIMILAR) - INBOARD (HUMAN IMPACT)
WINDOW ANCHORAGE AT HSS MULLION & ASSOCIATED BASE PLATE



PLAN VIEW AT SILL (HEAD SIMILAR) - OUTBOARD (PRIMARY)
WINDOW ANCHORAGE AT/NEAR ALUMINUM MULLION



01/08/2025
COA: 9090

Rev.	Description	Date
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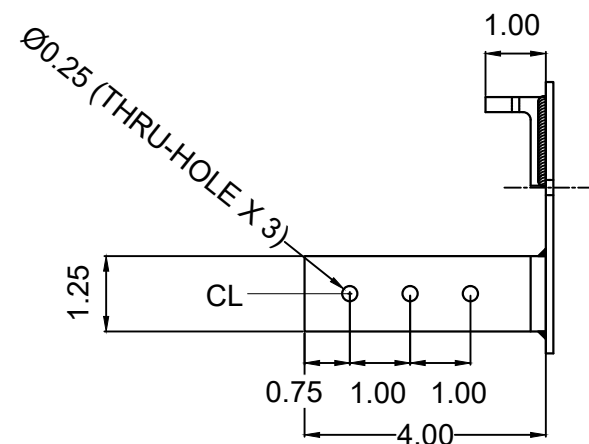
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WINCO WINDOW CO.
6200 MAPLE AVE.
ST. LOUIS, MO 63130
PHONE: 314-725-8088

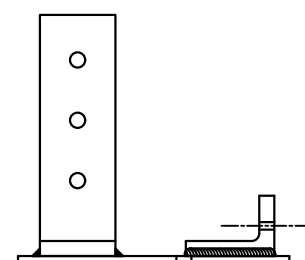
WINCO Product:
1150 FX-FX w/ HUMAN IMPACT SASH
SHEET 2 OF 3

Installation:
ANCHORAGE: ANGLES & MULLIONS

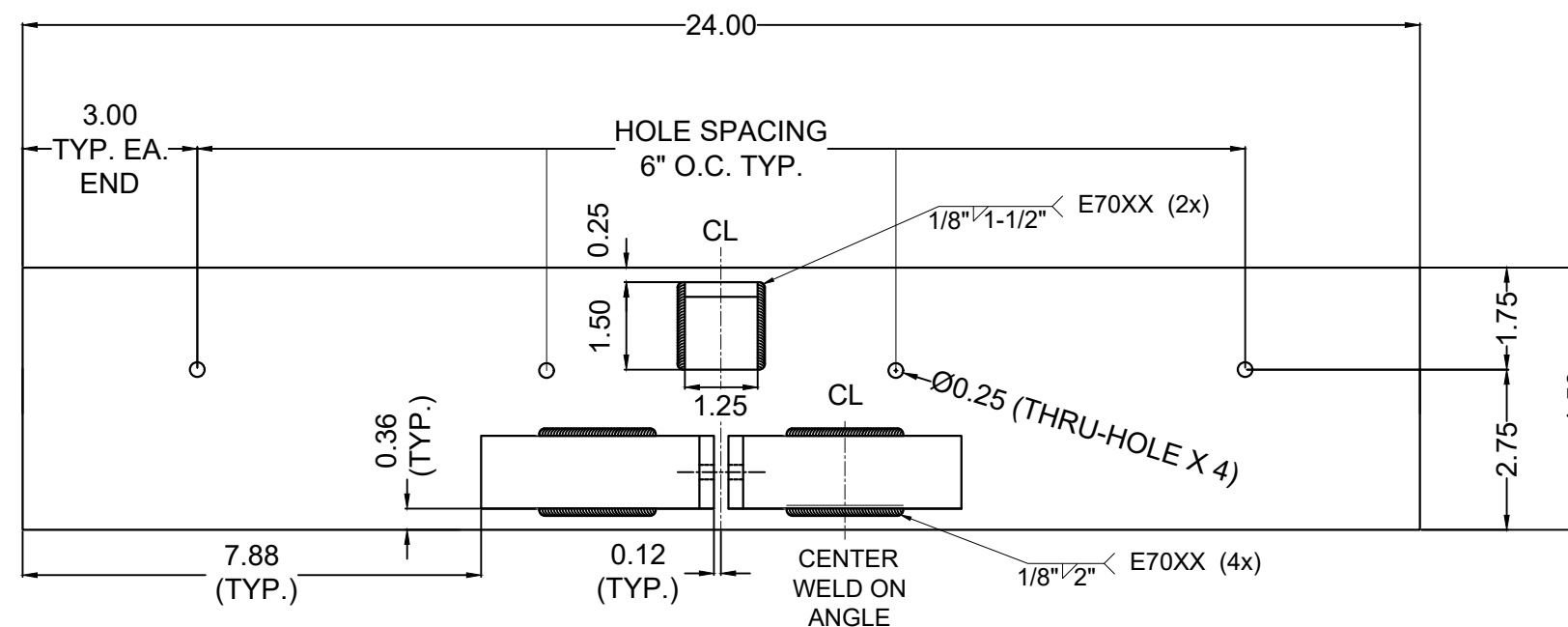
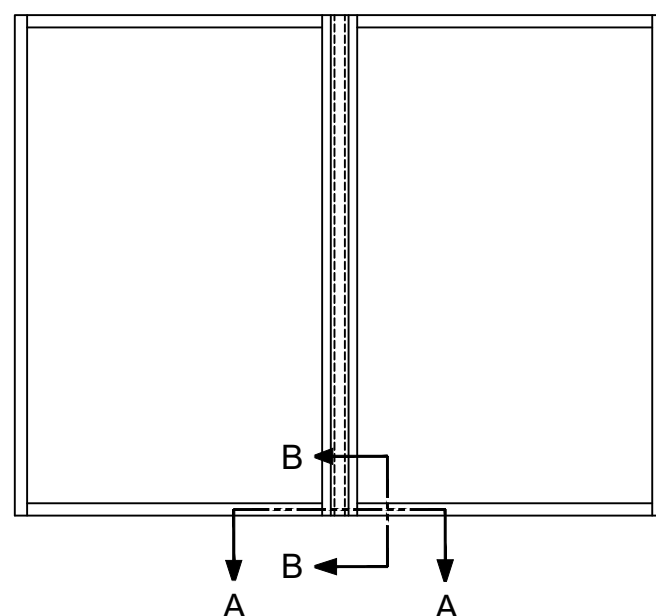
Certification:
LMI - 1150 - E MISSILE



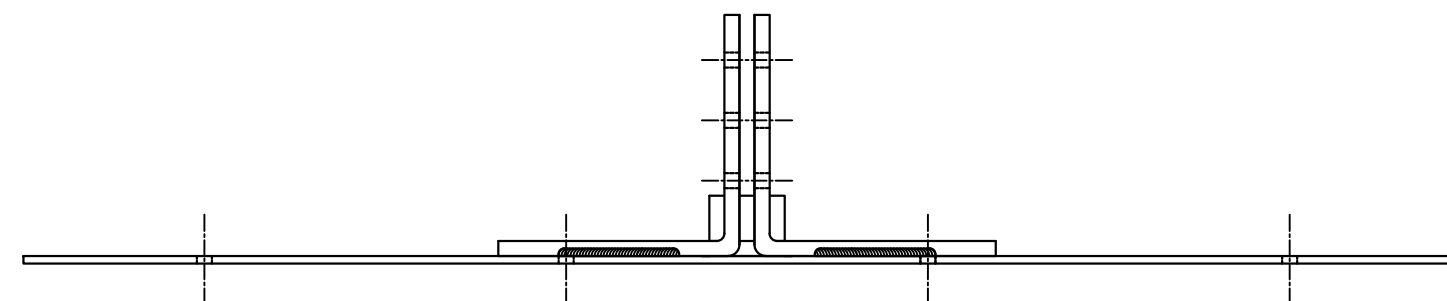
SECTION B-B (ROTATED 90°)



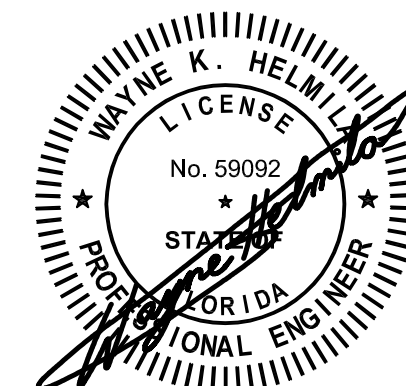
SECTION B-B



SECTION A-A PLAN VIEW AT SILL



FRONT ELEVATION VIEW AT SILL



01/08/2025
COA: 9090

ANCHOR ASSEMBLY @ SILL (HEAD IS REVERSE IMAGE)

RICE
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105 School Creek Trail
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Phone: (920) 617-1042
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Florida Firm No: F-0100000506
Certificate of Authorization: #90
Wayne K. Helmila
Registration No: 59092

1. STEEL FOR BASE PLATES AND CLIPS ANGLES (ASTM A36) & TUBE MULLIONS (ASTM A500) SHALL BE COATED WITH PRIMER TO PREVENT DIRECT CONTACT OF DISSIMILAR METALS & PROVIDE GENERAL CORROSION RESISTANCE.
2. SEE SHEETS 1 & 2 FOR ANCHOR REQUIREMENTS.

Rev.	Description	Date				
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<table><tr><td>Scale:</td><td>Drawn by:</td></tr><tr><td>NONE</td><td>B. FOOTE</td></tr></table>			Scale:	Drawn by:	NONE	B. FOOTE
Scale:	Drawn by:					
NONE	B. FOOTE					
WINCO WINDOW CO. 6200 MAPLE AVE. ST. LOUIS, MO 63130 PHONE: 314-725-8088						
WINCO Product: 1150 FX-FX w/ HUMAN IMPACT SASH SHEET 3 OF 3						
Installation: ANCHORAGE: ANGLES & MULLIONS						
Certification: LMI - 1150 - E MISSILE						