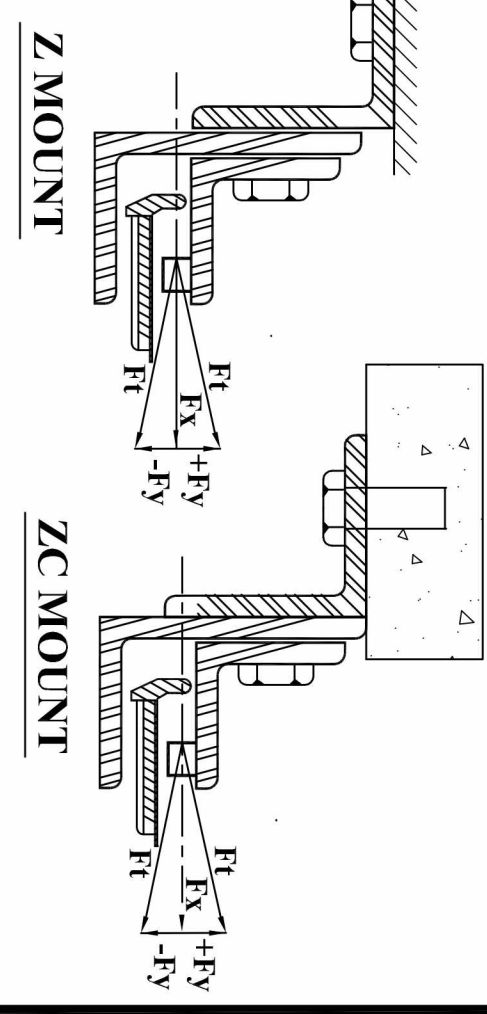
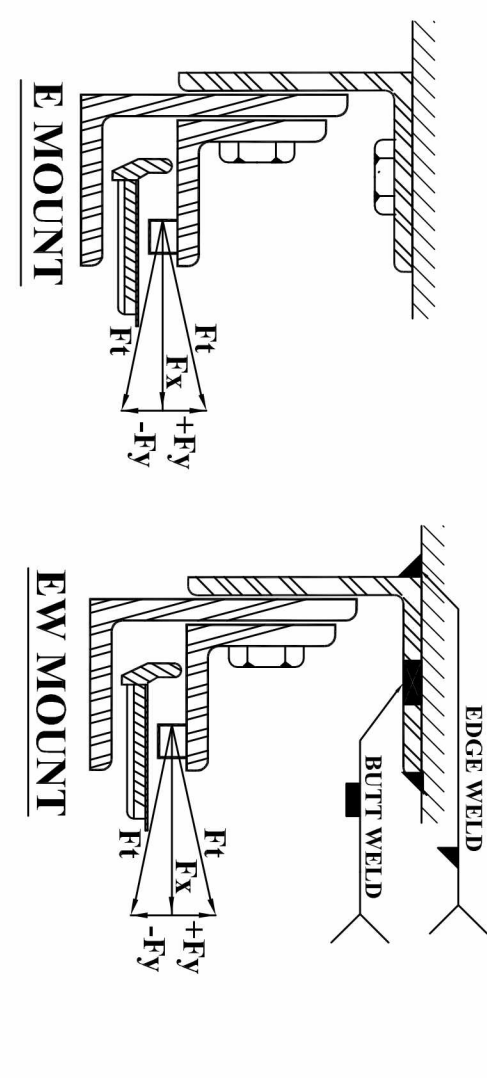
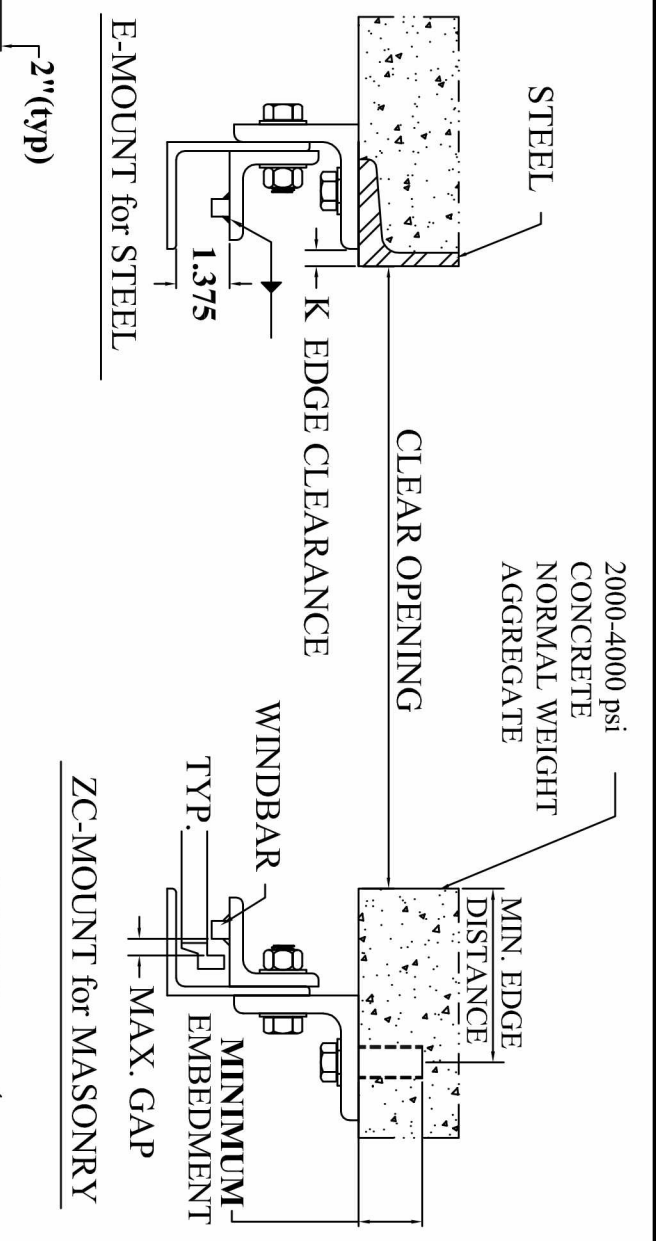
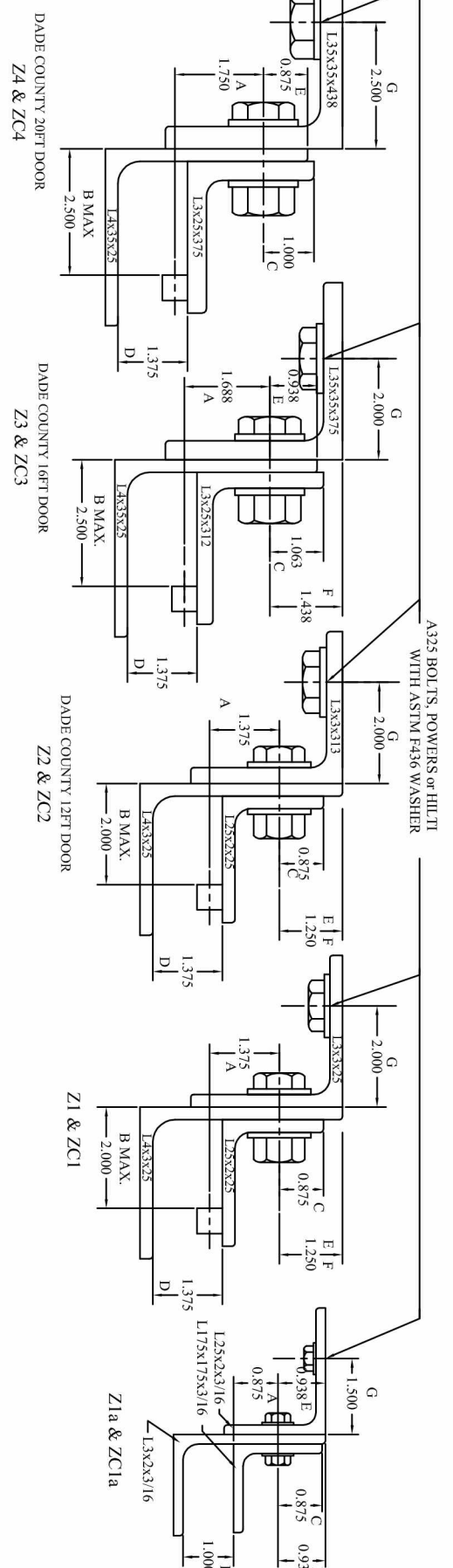
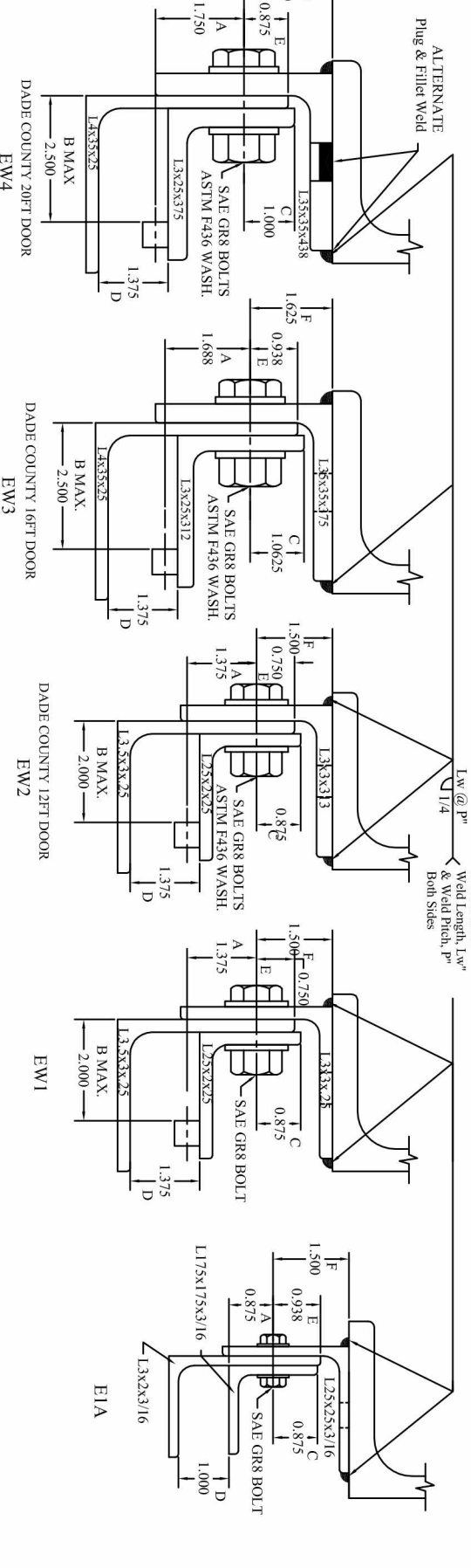
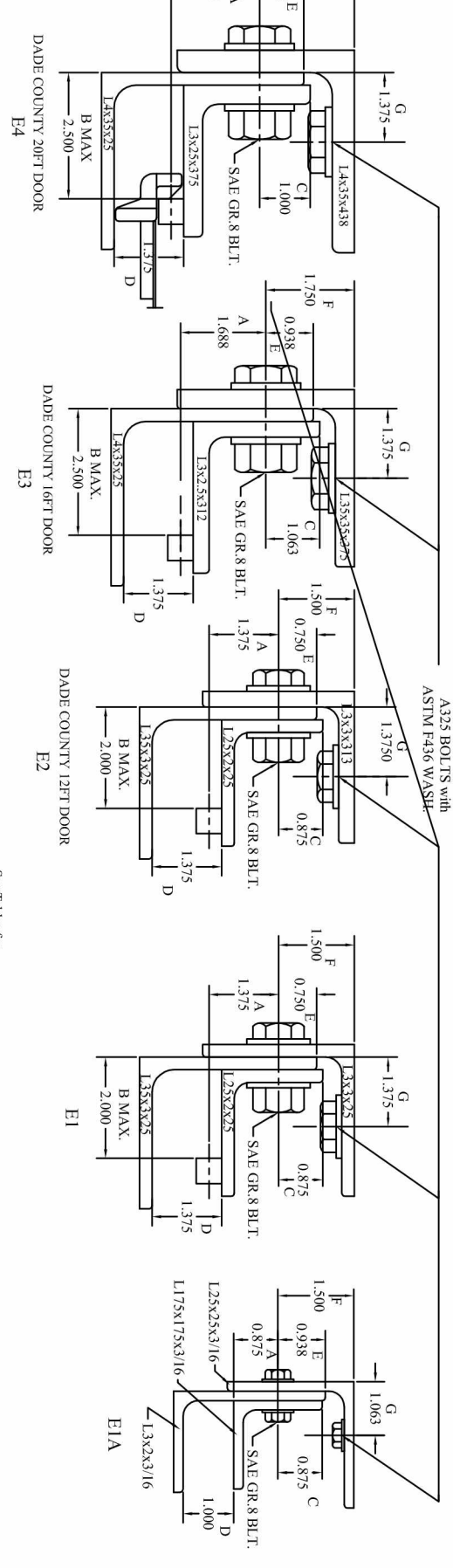
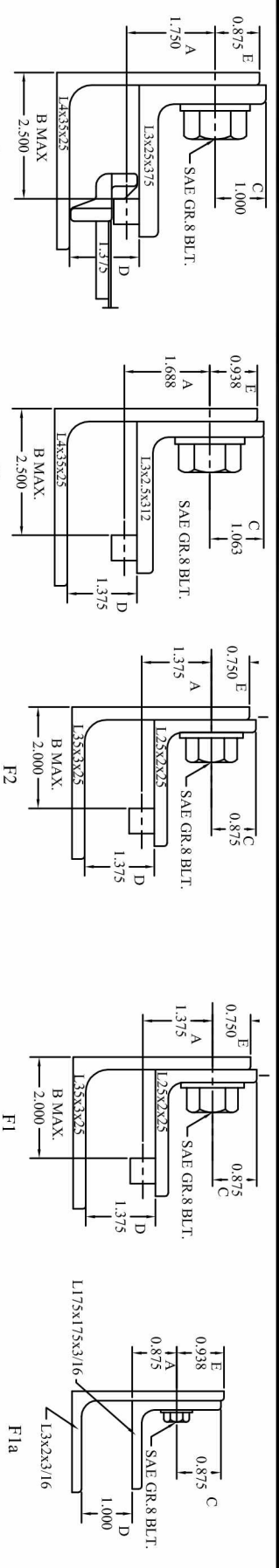


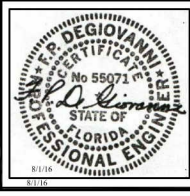
BOTTOM BAR





NOTES:

1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A ROLL-UP DOOR ASSEMBLY DESIGNED AND TESTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, THE NATIONAL BUILDING CODE AND THE FLORIDA BUILDING CODE.
2. A 33% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.
3. THIS ROLL-UP DOOR HAS BEEN TESTED FOR UNIFORM STATIC PRESSURE, IMPACT AND FATIGUE RESISTANCE IN ACCORDANCE WITH THE FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES TAS 201, TAS 202, TAS 203.
4. THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC. THEY WERE PREPARED BY THE PRODUCT ENGINEER AND ARE NOT SITE SPECIFIC. WHEN SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED BY A DULY LICENSED AND REGISTERED ENGINEER OR ARCHITECT.
5. THESE PRODUCT EVALUATION DOCUMENTS ARE NOT VALID FOR PERMIT WITHOUT ORIGINAL SIGNATURE, DATE AND SEAL ON EACH PERMIT COPY, WHETHER OR NOT A MASTER APPROVAL DOCUMENT IS ON FILE WITH A MUNICIPALITY OR OTHER GOVERNING AGENCY.
6. THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE HORIZONTAL AND VERTICAL FORCES, Vx AND Vy ON THE DOOR JAMBS OR SUPPORT STRUCTURE.
7. IF THE DEVIATING SITE SPECIFIC DOCUMENTS ARE PREPARED BY A DELICATED REGISTERED ENGINEER OR ARCHITECT, SAID DOCUMENTS SHALL BEAR THE DATE, SIGNATURE, AND SEAL OF THE DELICATED ENGINEER OR ARCHITECT AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW.
8. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING WIND VELOCITY AND GOVERNING CODE FOR THE SPECIFIC SITE.
9. DOORS MAY BE INSTALLED ON EITHER THE INTERIOR OR EXTERIOR OF AN EXTERNAL WALL. THE INDICATED TABULATED MAXIMUM WIND VELOCITIES ARE EITHER POSITIVE OR NEGATIVE PRESSURES.
10. DOOR CURTAIN SLATS SHALL BE FABRICATED FROM TYPE 201, 304 OR 430 STAINLESS STEEL (MINIMUM YIELD 50,000 psi) OR ASTM A653 HSLA TYPE A OR B, GRADE 50 GALVANIZED OR ASTM A653 STRUCTURAL STEEL GRADE 50 GALVANIZED.
11. ALL BOLTS AND WASHERS SHALL BE GALVANIZED STEEL OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 ksi.
12. ENDLOCKS/WINDLOCKS SHALL BE CAST MALLEABLE IRON TYPE 32510 PER ASTM A47-99 OR CAST DUCTILE IRON PER ASTM A336 GRADE 65-45-12.
13. ALL WINDLOCK/ENDLOCK RIVETS SHALL BE 1/4 INCH STEEL RIVETS WITH A TENSILE STRENGTH OF 1,850 lbs, AND A SHEAR STRENGTH OF 2,400 lbs.
14. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70. MINIMUM WELDING PROCESSES SHALL BE ARC WELDING A.W.S. E7014 OR MIG WELDING A.W.S. ER70S-6
15. CONCRETE WALL ANCHORS SHALL BE SIMPSON WEDGE-ALL BOLTS OR HILTI-RE 500 ADHESIVE WITH HS THREADED ROD PER ASTM 193-B7 WITH ASTM A563-GRADE C3 NUT & ASTM A496-07a WASHER. BOLTS FOR STEEL FRAME MOUNTING SHALL BE ASTM A325.
16. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.

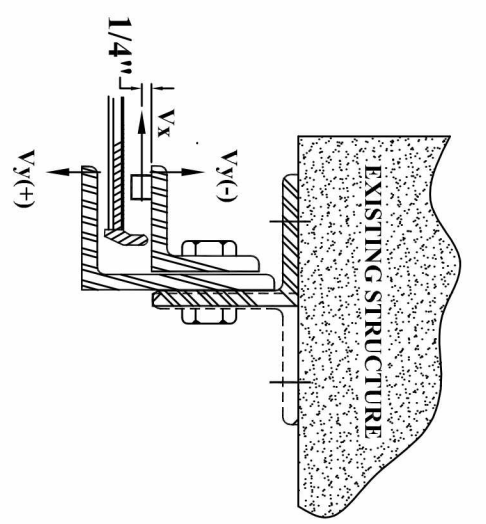
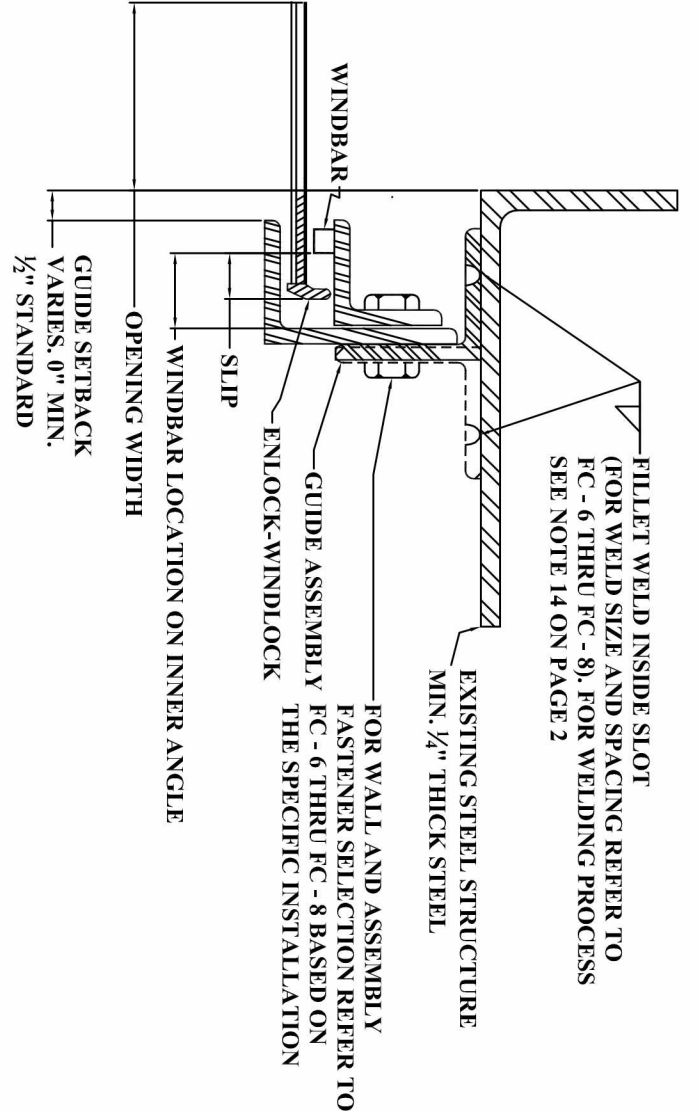
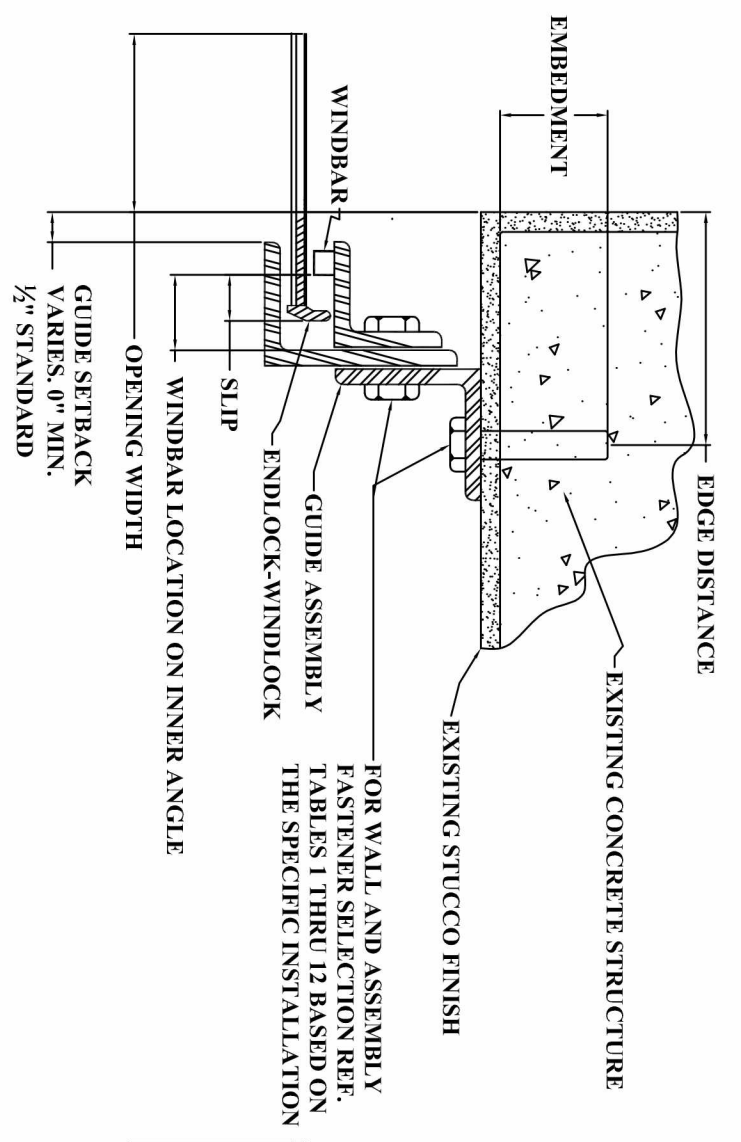


REDISTORM-SF
DWG. FC-2



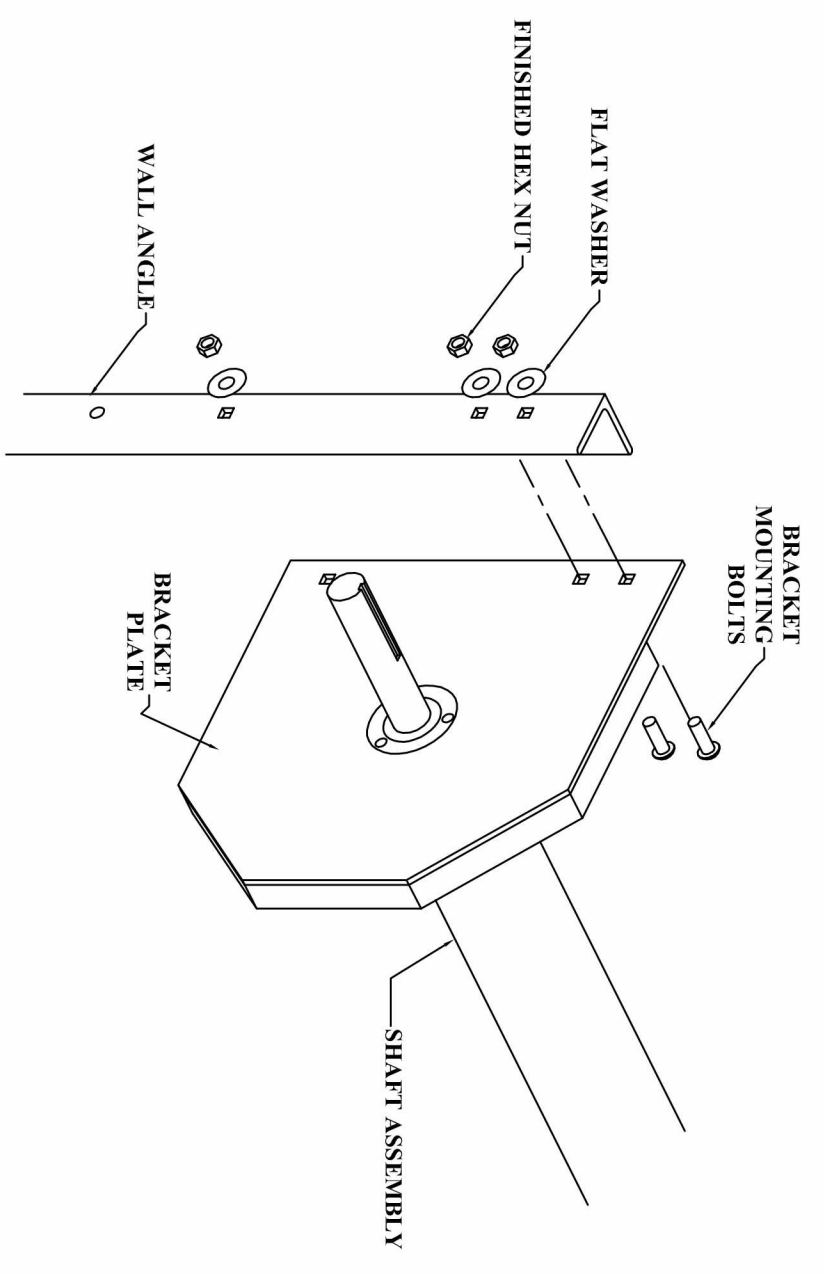
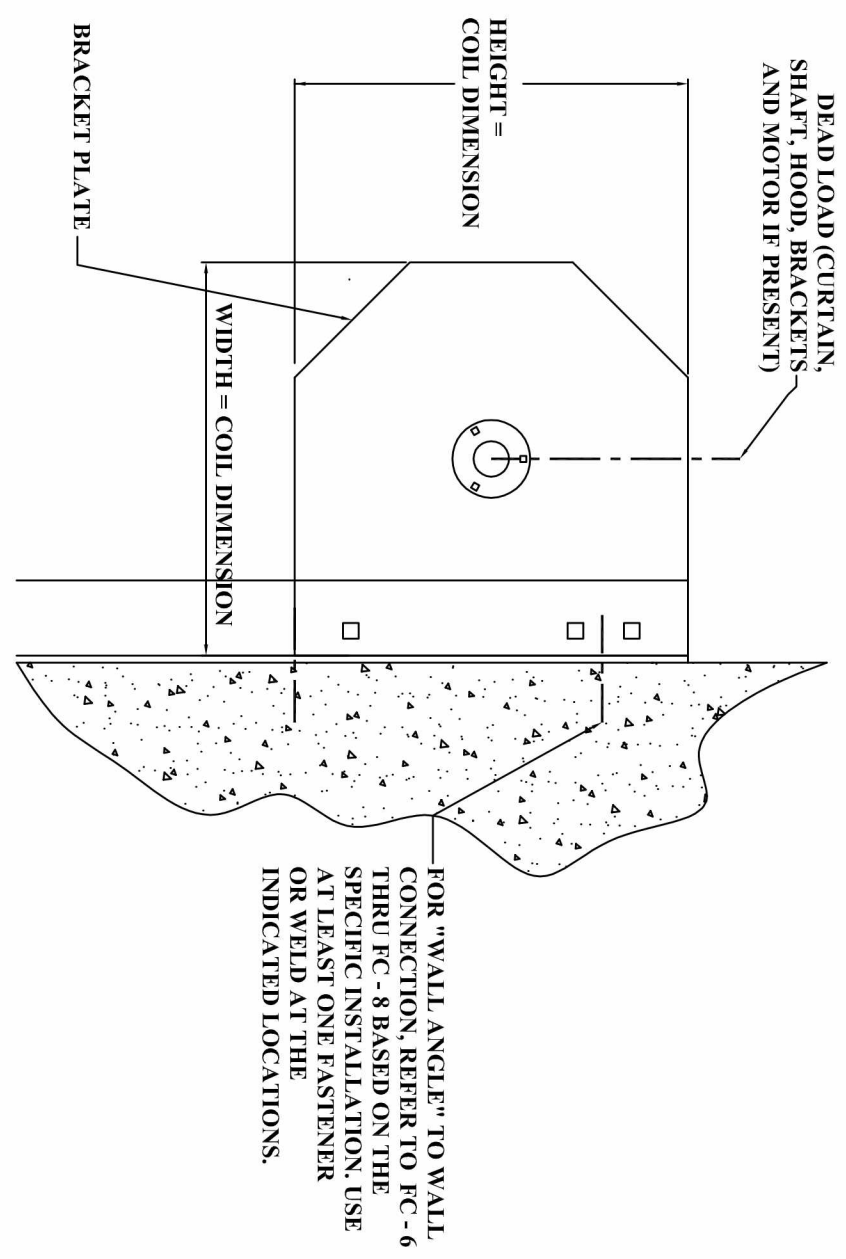
SALES REP:	
CUSTOMER:	
CONTACT:	
CHECK & DATE:	DRAWN BY: FPD
	DATE: 7/1/16

Alpine[®]
OVERHEAD DOORS, INC.
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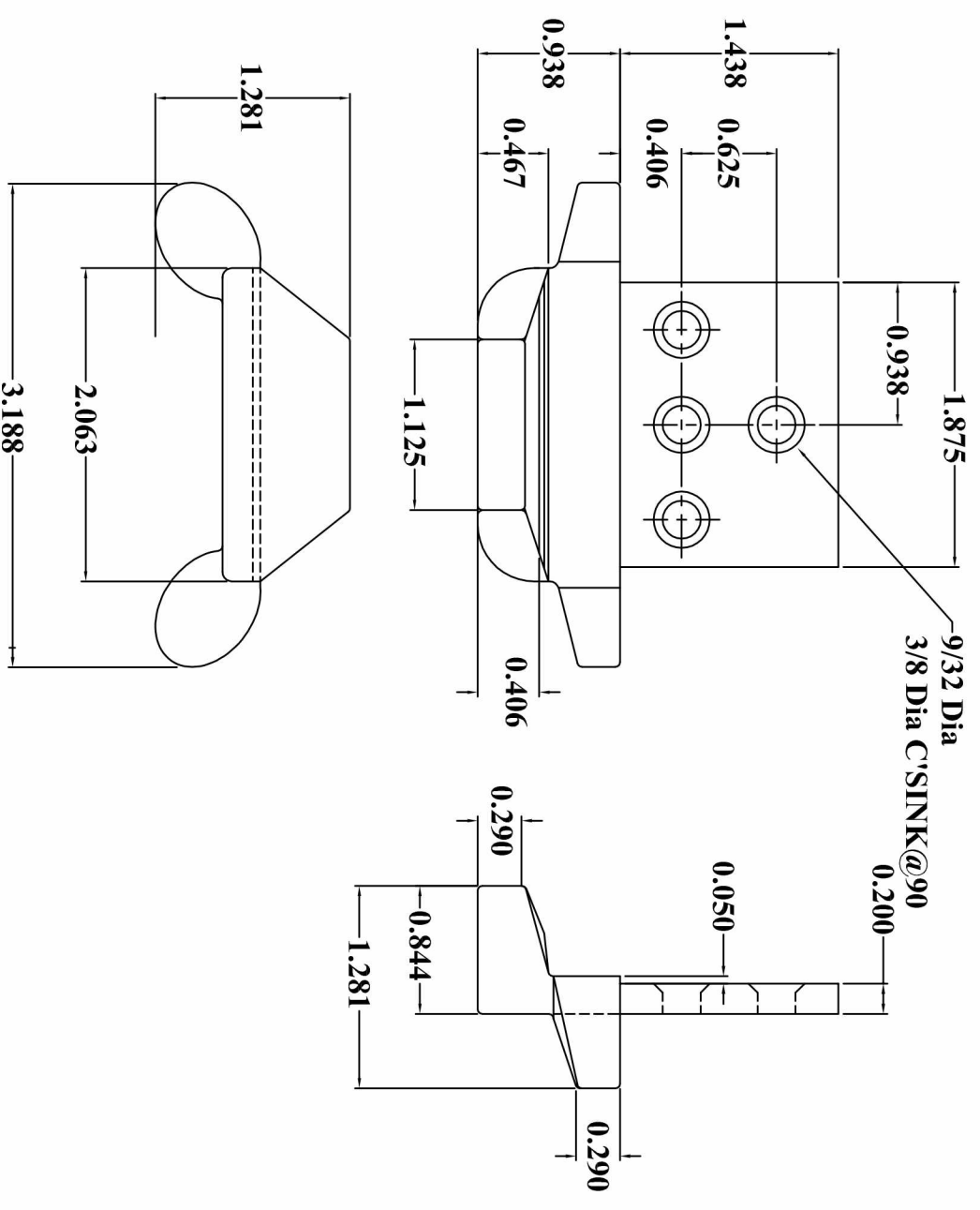
NOTE: Vx & Vy ARE HORIZ. AND VERT. COMPONENTS OF THE REACTION, RESPECTIVELY, RESULTING FROM WIND LOADS ON THE ROLL-UP DOOR. THE EXISTING STRUCTURE SHALL BE CAPABLE OF RESISTING Vx & Vy FORCES SHOWN AND THE CORRESPONDING REACTIONS DUE TO THE ECCENTRICITIES OF THE FORCES.

SUPERIMPOSED LOAD DIAGRAM

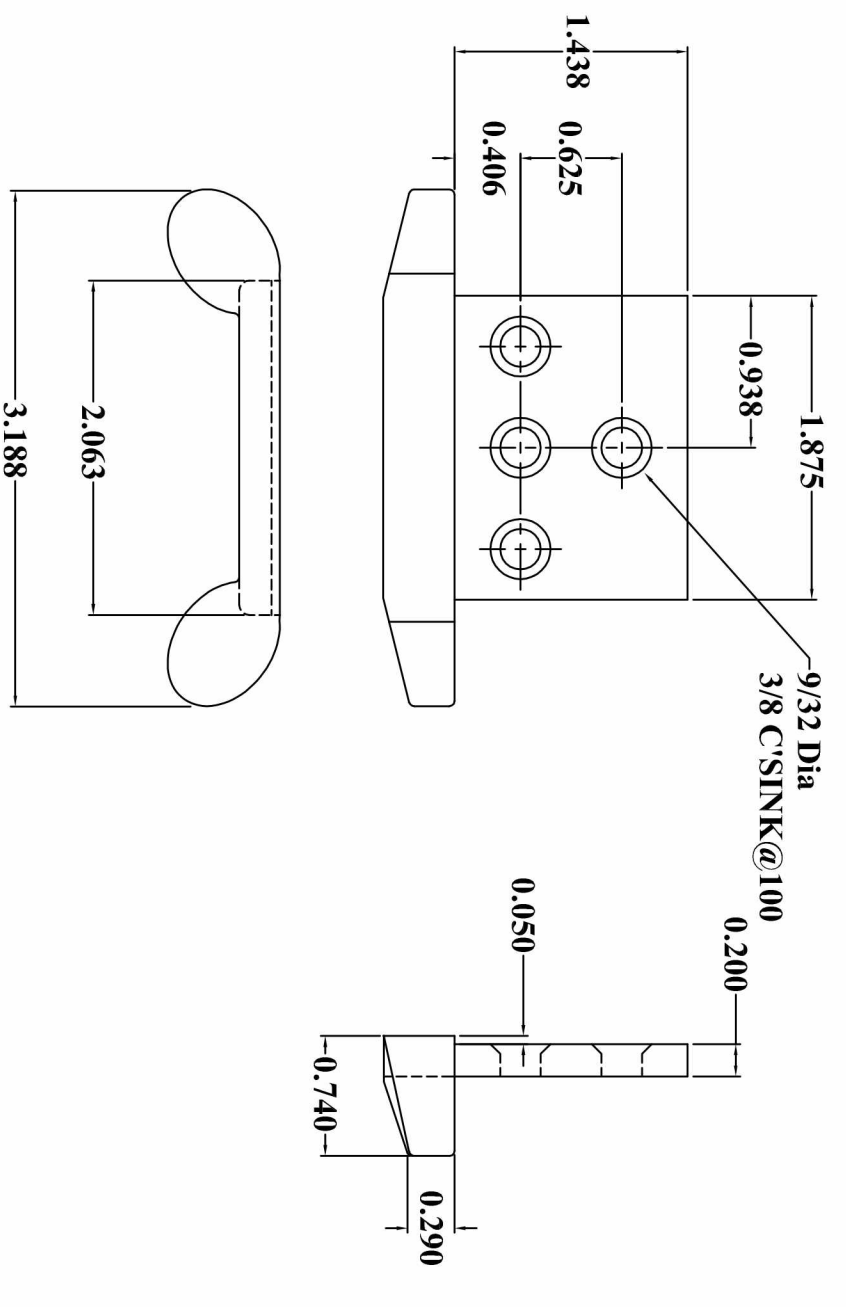


NOTE: WHEN MOTOR IS PROVIDED, HEIGHT OR WIDTH DIMENSION MAY INCREASE UP TO 2-1/2" BASED ON MOTOR LOCATION. WHEN AN 8" DIAMETER OR LARGER SHAFT ASSEMBLY IS PROVIDED, HEIGHT DIMENSION INCREASES BY 2".

Z MOUNT - CONCRETE STRUCTURE ASSEMBLY



WINDLOCK/ENDLOCK

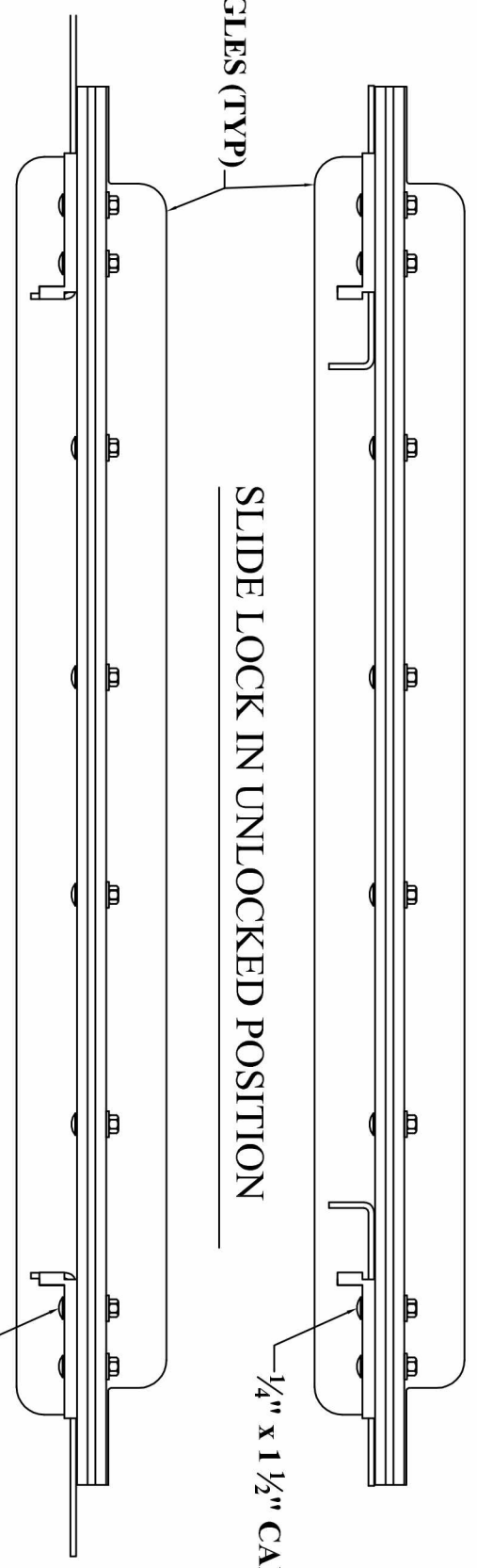


ENDLOCK

2x2x1/8" ROLL FORMED ANGLES (TYP)

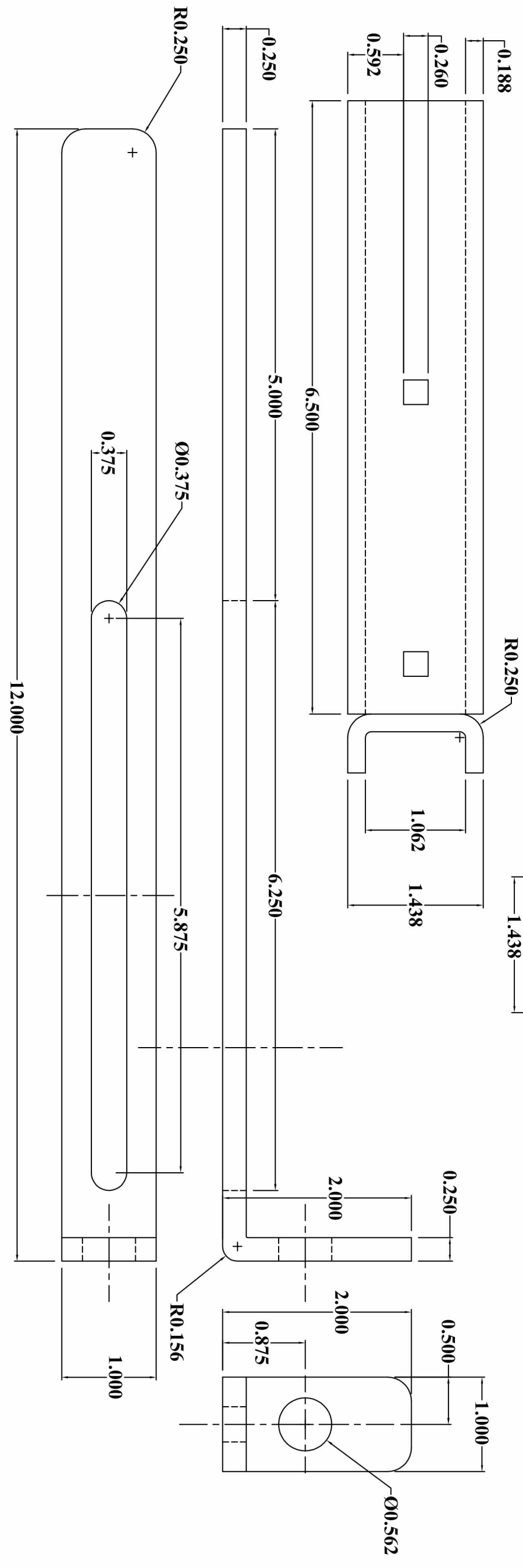
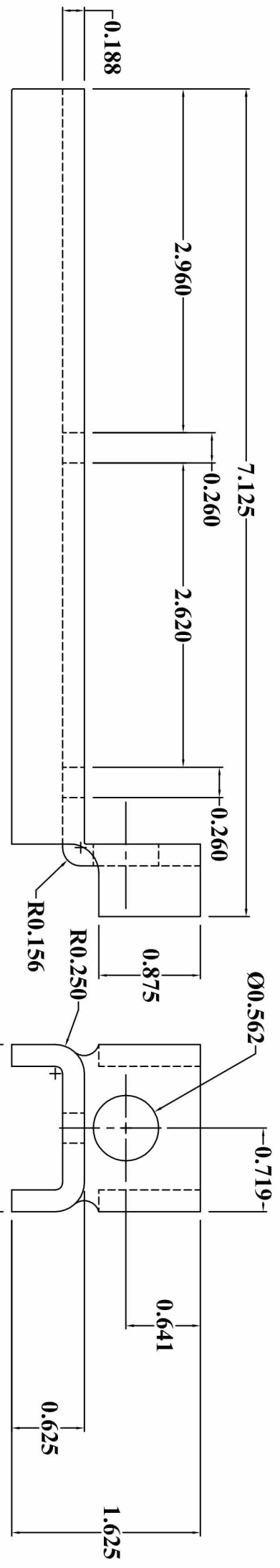
SLIDE LOCK IN UNLOCKED POSITION

1/4" x 1 1/2" CARRIAGE BOLTS (TYPICAL)



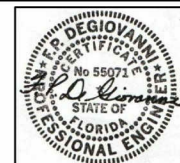
SLIDE LOCK IN LOCKED POSITION

1/4" x 1 1/2" CARRIAGE BOLTS (TYPICAL)





REDISTORM-SF
DWG. FC - 8



SALES REP: _____
 CUSTOMER: _____
 CONTACT: _____
 CHECK & DATE: _____ DRAWN BY: **FPD** DATE: **7/1/16**

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30PSF WINDLOAD, 18 GA. GALVANIZED OR STAINLESS STEEL SLATS (MINIMUM YIELD 50,000 psi), FBC

DOOR CLEAR OPENING CO(f-in)	RAIL MOUNT SIZE	SLIP (in)	W/LOCK Y/N	W/BAR WELD PITCH (in)	F MOUNT BOLT 1		ALL MOUNTS BOLT 1		EMOUNT BOLT 2		EW MOUNT (% FLEET WELD PERIMETER) PITCH PERIMETER SIZE	Z MOUNT BOLT 2		ZC MOUNT (3000)psi CONCRETE BOLT 2		MAXIMUM LOAD POS.(+)/NEG(-)	ZC MOUNT				
					SAEGR8 DIA.	MAX. SPACING (in)	SAEGR8 DIA.	MAX. SPACING (in)	A325 DIA.	MAX. SPACING (in)		A325 DIA.	MAX. SPACING (in)	MIN. DIA.	MAX. SPACING (in)			MIN. DIA.	MAX. SPACING (in)	MIN. EMBED.	MIN. EDGE DIST.(in)
9'-3"	1A	N/A	N	N/A	0.25	18	0.25	18	0.25	18	18	0.25	18	0.25	10	0.25	2.5	3	SIMPSON	13	145
12'-0"	1	0.165	Y	10	0.25	18	0.25	11	0.25	8	18	0.5	18	0.25	10	0.375	16	3.5	4.5	667	77
16'-0"	1	0.375	Y	8	0.25	9	0.375	15	0.375	11	18	0.75	18	0.375	14	0.375	11	3.5	4.5	1080	162
20'-0"	1	0.719	Y	7	0.375	16	0.375	12	0.375	10	18	1.75	18	0.375	11	0.375	9	3.5	4.5	1269	235
22'-0"	1	0.75	Y	7	0.375	13	0.375	9	0.375	8	16	1	16	0.5	9	0.5	4	6	1597	284	
30'-0"	2	0.75	Y	6	0.375	8	0.5	11	0.5	8	15	1	15	0.5	10	0.625	9	5	2615	406	
38'-3"	3	1.25	Y	5	0.5	9	0.5	9	0.625	12	15	1	15	0.5	8	0.75	6	9	3024	535	

NOTE: STD BOLTS ASTM A325, CONCRETE BOLTS SIMPSON WEDGE-ALL BOLT or HILTI HIT RE 500 ADHESIVE with HS THD ROD ASTM A193-B7 with ASTM A563 NUT & ASTM A496 WASHER

40PSF WINDLOAD, 18 GA. GALVANIZED OR STAINLESS STEEL SLATS (MINIMUM YIELD 50,000 psi), FBC

DOOR CLEAR OPENING CO(f-in)	RAIL MOUNT SIZE	SLIP (in)	W/LOCK Y/N	W/BAR WELD PITCH (in)	F MOUNT BOLT 1		ALL MOUNTS BOLT 1		EMOUNT BOLT 2		EW MOUNT (% FLEET WELD PERIMETER) PITCH PERIMETER SIZE	Z MOUNT BOLT 2		ZC MOUNT (3000)psi CONCRETE BOLT 2		MAXIMUM LOAD POS.(+)/NEG(-)	ZC MOUNT				
					SAEGR8 DIA.	MAX. SPACING (in)	SAEGR8 DIA.	MAX. SPACING (in)	A325 DIA.	MAX. SPACING (in)		A325 DIA.	MAX. SPACING (in)	MIN. DIA.	MAX. SPACING (in)			MIN. DIA.	MAX. SPACING (in)	MIN. EMBED.	MIN. EDGE DIST.(in)
8'-0"	1A	N/A	N	N/A	0.25	18	0.25	18	0.25	18	18	0.5	18	0.25	18	0.25	2.5	3	SIMPSON	13	169
12'-0"	1	0.165	Y	7	0.25	9	0.375	14	0.375	10	18	0.75	18	0.375	12	0.375	10	3.5	4.5	1213	140
15'-9"	1	0.343	Y	7	0.375	14	0.375	10	0.5	13	18	0.875	18	0.5	9	0.5	4	6	1645	238	
24'-9"	2	0.75	Y	5	0.375	8	0.5	10	0.5	8	15	1	15	0.5	10	0.625	9	5	2595	443	
31'-3"	3	1.25	Y	5	0.5	9	0.5	9	0.625	12	15	1	15	0.5	9	0.75	8	6	2964	578	
36'-9"	4	1.25	Y	5	0.625	10	0.625	10	0.625	10	12	1	12	0.625	10	0.625	10	5.625	8.4375	3845	694

50PSF WINDLOAD, 18 GA. GALVANIZED OR STAINLESS STEEL SLATS (MINIMUM YIELD 50,000 psi), FBC

DOOR CLEAR OPENING CO(f-in)	RAIL MOUNT SIZE	SLIP (in)	W/LOCK Y/N	W/BAR WELD PITCH (in)	F MOUNT BOLT 1		ALL MOUNTS BOLT 1		EMOUNT BOLT 2		EW MOUNT (% FLEET WELD PERIMETER) PITCH PERIMETER SIZE	Z MOUNT BOLT 2		ZC MOUNT (3000)psi CONCRETE BOLT 2		MAXIMUM LOAD POS.(+)/NEG(-)	ZC MOUNT					
					SAEGR8 DIA.	MAX. SPACING (in)	SAEGR8 DIA.	MAX. SPACING (in)	A325 DIA.	MAX. SPACING (in)		A325 DIA.	MAX. SPACING (in)	MIN. DIA.	MAX. SPACING (in)			MIN. DIA.	MAX. SPACING (in)	MIN. EMBED.	MIN. EDGE DIST.(in)	CONC. BOLT TYPE
7'-0"	1A	N/A	N	N/A	0.25	18	0.25	18	0.25	18	18	0.5	18	0.25	16	0.25	8	2.5	3	SIMPSON	12	186
11'-6"	1	0.145	Y	6	0.375	15	0.375	10	0.5	13	18	0.875	18	0.375	9	0.5	9	4	6	1682	185	
16'-0"	2	0.375	Y	6	0.375	10	0.5	13	0.5	10	18	1	18	0.625	12	0.625	11	5	7.5	2173	326	
21'-3"	2	0.75	Y	6	0.375	8	0.5	10	0.5	8	16	1	16	0.625	10	0.625	9	5	7.5	2665	470	
26'-9"	3	1.25	Y	5	0.5	9	0.5	9	0.5	8	16	1	16	0.75	8	0.75	8	6	9	2924	614	
31'-6"	4	1.25	Y	5	0.625	10	0.625	10	0.625	10	12	1	12	0.625	10	0.625	10	5.625	8.4375	3807	740	

60PSF WINDLOAD, 18 GA. GALVANIZED OR STAINLESS STEEL SLATS (MINIMUM YIELD 50,000 psi), FBC

DOOR CLEAR OPENING CO(f-in)	RAIL MOUNT SIZE	SLIP (in)	W/LOCK Y/N	W/BAR WELD PITCH (in)	F MOUNT BOLT 1		ALL MOUNTS BOLT 1		EMOUNT BOLT 2		EW MOUNT (% FLEET WELD PERIMETER) PITCH PERIMETER SIZE	Z MOUNT BOLT 2		ZC MOUNT (3000)psi CONCRETE BOLT 2		MAXIMUM LOAD POS.(+)/NEG(-)	ZC MOUNT					
					SAEGR8 DIA.	MAX. SPACING (in)	SAEGR8 DIA.	MAX. SPACING (in)	A325 DIA.	MAX. SPACING (in)		A325 DIA.	MAX. SPACING (in)	MIN. DIA.	MAX. SPACING (in)			MIN. DIA.	MAX. SPACING (in)	MIN. EMBED.	MIN. EDGE DIST.(in)	CONC. BOLT TYPE
9'-3"	1A	N/A	N	N/A	0.25	18	0.25	18	0.25	18	18	0.75	18	0.25	15	0.375	15	3.5	4.5	SIMPSON	13	208
14'-6"	2	0.281	Y	6	0.375	8	0.5	11	0.5	8	15	1	15	0.625	9	0.625	9	4	6	1707	152	
21'-0"	3	0.75	Y	5	0.5	9	0.5	9	0.625	12	15	1	15	0.75	8	0.75	8	6	9	2610	357	
26'-9"	4	1.25	Y	5	0.625	11	0.625	11	0.625	11	13	1	13	0.75	8	0.75	8	6	9	2995	570	
27'-9"	4	1.25	Y	5	0.625	10	0.625	10	0.625	10	12	1	12	0.625	11	0.625	10	5.625	8.4375	3555	746	
																				3771	778	

NOTE: STD BOLTS ASTM A325, CONCRETE BOLTS SIMPSON WEDGE-ALL BOLT or HILTI HIT RE 500 ADHESIVE with HS THD ROD ASTM A193-B7 with ASTM A563 NUT & ASTM A496 WASHER