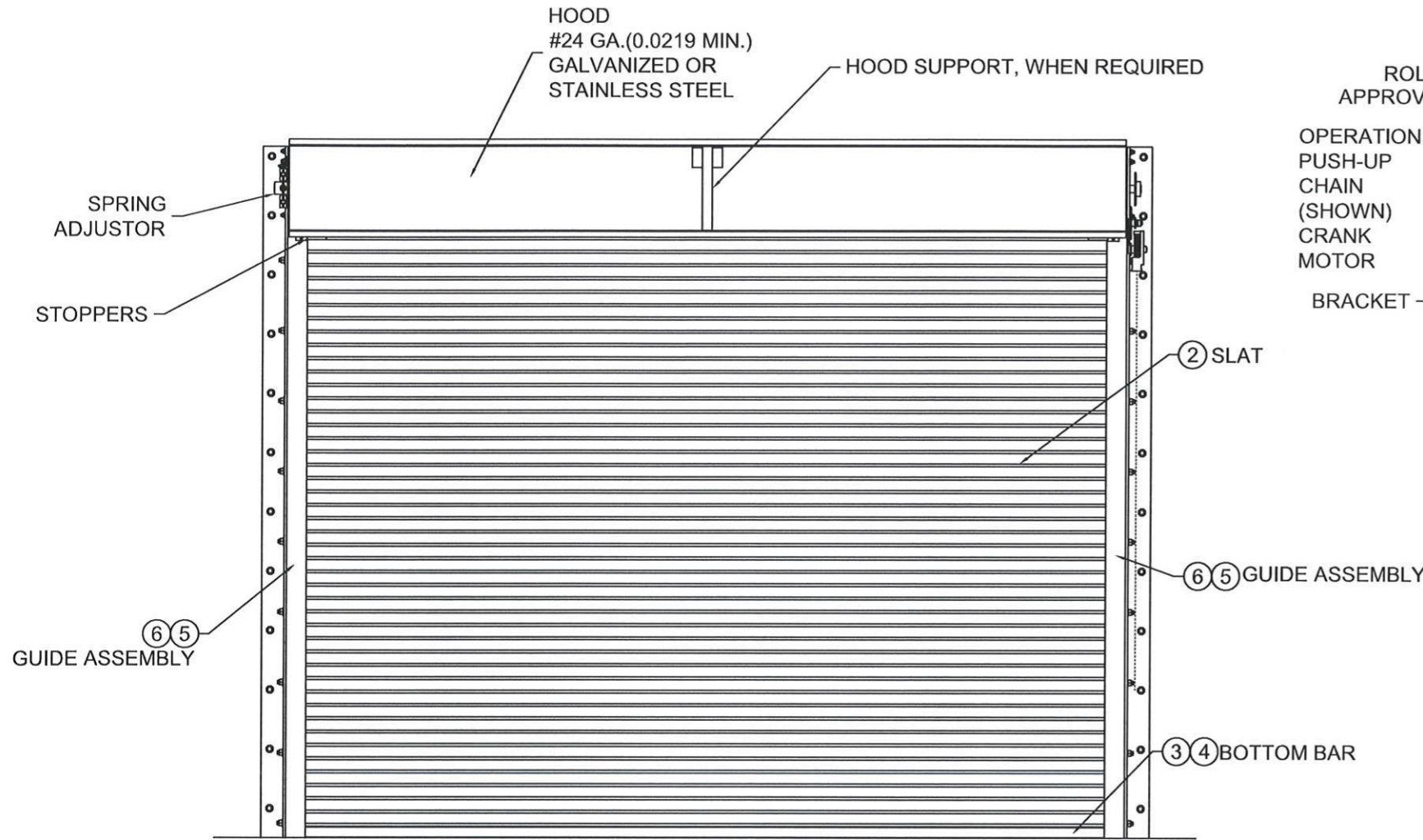
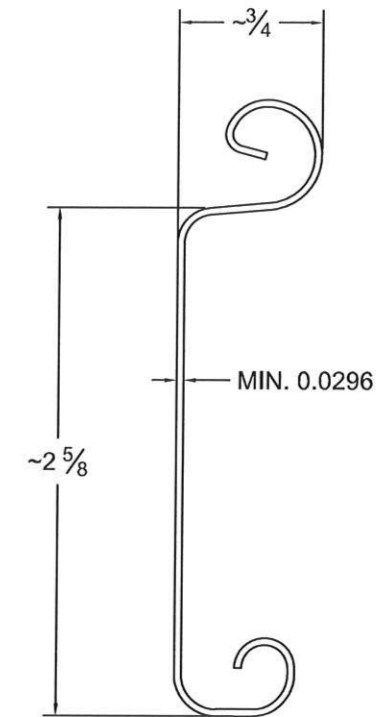
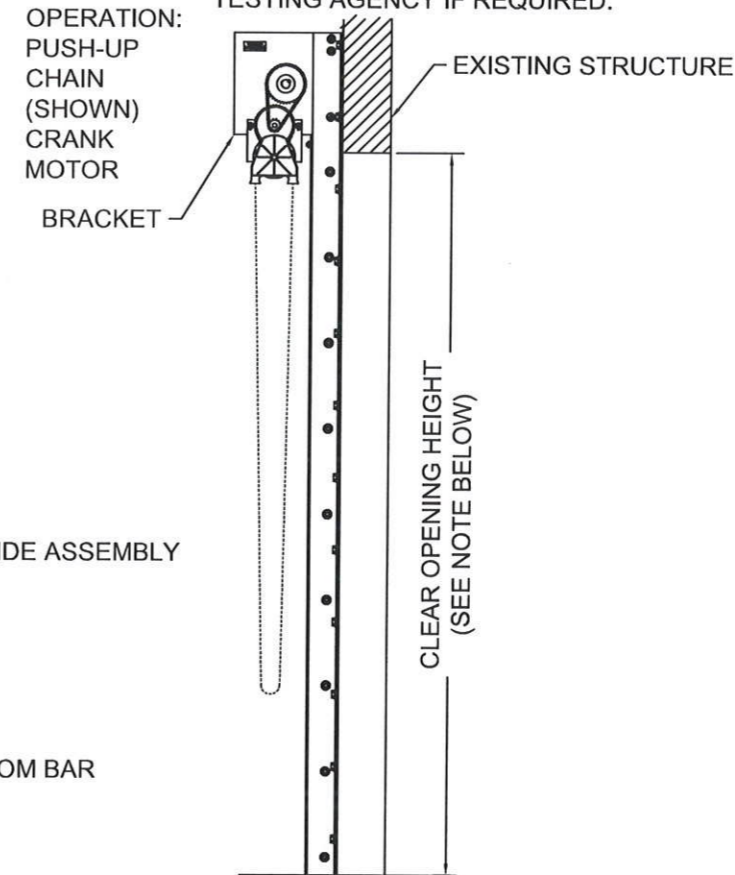


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ROLL-UP MECHANISM NOT INCLUDED IN THIS APPROVAL. MUST BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY IF REQUIRED.



② SLAT DETAIL
TYPICAL SECTION

ASTM A653 HSLAS TYPE B GRADE 40 G40 OR
 ASTM A653 HSLAS TYPE A GRADE 40 G40 OR
 ASTM A653 STRUCTURAL STEEL GRADE 40 G40
 OR TYPE 304 STAINLESS STEEL (MIN. YIELD 40,000 psi)
 OR TYPE 316 STAINLESS STEEL (MIN. YIELD 40,000 psi)
 OR TYPE 430 STAINLESS STEEL (MIN. YIELD 40,000 psi)
 OR TYPE 201 STAINLESS STEEL (MIN. YIELD 40,000 psi)
 FULL SCALE



① OVERALL DOOR ASSEMBLY
1:32 SCALE

NOTE: WIND LOADS SPECIFIED IN TABLES ARE ACCEPTABLE FOR ANY C.O.H.. FOR GREATER THAN 30 FT, C.O.H., MOUNTING CONDITIONS SHALL BE DETERMINED ON A SITE SPECIFIC BASIS.



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	TITLE: WIND LOAD CONFIGURATION NON-INSULATED ROLLING STEEL DOOR CP0020 SLAT IMPACT RATED	DRAWN BY: TJE DWG NO: ES-16-61-CIW	SIZE: B SCALE: AS NOTED

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/02/14	TJE	1615

GENERAL NOTES:

1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A ROLL-UP DOOR ASSEMBLY DESIGNED AND TESTED IN ACCORDANCE WITH THE STANDARD BUILDING CODE, THE INTERNATIONAL BUILDING CODE, AND THE FLORIDA BUILDING CODE.
2. 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, AND TAS 203.
3. A 33% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.
4. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY.
5. THESE PRODUCT EVALUATION DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.
6. THESE PRODUCT EVALUATION DOCUMENTS ARE NOT VALID FOR PERMIT WITHOUT ORIGINAL SIGNATURE, DATE AND EMBOSSED SEAL ON EACH PERMIT COPY, WHETHER OR NOT A MASTER APPROVAL DOCUMENT IS ON FILE WITH A MUNICIPALITY OR OTHER GOVERNING AGENCY.
7. 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 SUPERIMPOSED LOADS V_x & V_y ON THE JAMBS OF THE DOOR.
8. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.
9. WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED BY A DULY LICENSED AND REGISTERED ENGINEER OR ARCHITECT.
10. IF THE DEVIATING SITE SPECIFIC DOCUMENTS ARE PREPARED BY A DELEGATED REGISTERED ENGINEER OR ARCHITECT, SAID DOCUMENTS SHALL BEAR THE DATE, SIGNATURE, AND EMBOSSED SEAL OF THE DELEGATED ENGINEER OR ARCHITECT AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW.
11. ALL HARDWARE SHALL BE GALVANIZED STEEL, PLATED STEEL OR STAINLESS STEEL
12. ALL WINDLOCK RIVETS SHALL BE 1/4" STEEL RIVETS IFI GRADE 30 WITH A MINIMUM TENSILE STRENGTH OF 1,850 Lbs., AND SHEAR STRENGTH OF 2,400 Lbs., U.O.N.. RIVETS TO BE INSTALLED IN ALL WINDLOCK HOLES.
13. ENDLOCKS/WINDLOCKS SHALL BE CAST MALLEABLE IRON TYPE 32510 PER ASTM A47 OR CAST DUCTILE IRON PER ASTM A536 GRADE 65-45-12.
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. ANCHOR NOTES:
 A. EMBEDMENT LENGTH DOES NOT INCLUDE STUCCO FINISH.
 B. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 C. ANCHOR CAPACITY FOR THIS ROLL-UP DOOR IS BASED ON MIN. 3,000 P.S.I. CONCRETE EXCEPT WHERE NOTED..
 D. FOR MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE, REFER TO TABLES.
16. DOOR MAY BE INSTALLED ON THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL
17. ALL SHAPES USED FOR GUIDE ASSEMBLIES MUST CONFORM TO ATSM A36 FOR STEEL OR ASTM A276 FOR TYPES 304 OR 316 WITH A MINIMUM 36 KSI YIELD STRENGTH.

3/8-16 x 1" SAE GR.8
OR EQUIVALENT
HEX HEAD BOLT AND NUT
AT 18" ON CENTER

(2) 2 x 2 ASTM A36 STEEL
OR STAINLESS STEEL
1/8" THICK THRU 21'-5" D.B.G.
3/16" THICK OVER 21'-5" D.B.G.

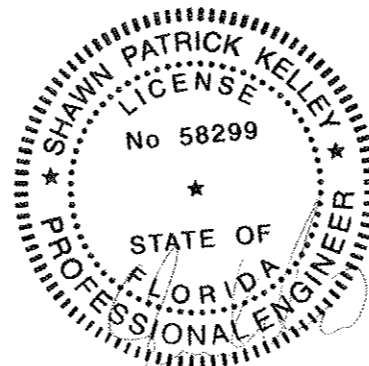
OPTIONS:
WEATHERING (SHOWN)
OR SENSING EDGE

③ DOUBLE ANGLE BOTTOM BAR DETAIL
TYPICAL SECTION
FULL SCALE

6063-T5 ALUMINUM
THRU 21'-5" D.B.G.

OPTIONS:
WEATHERING (SHOWN)
OR SENSING EDGE

④ EXTRUDED BOTTOM BAR DETAIL
TYPICAL SECTION
FULL SCALE



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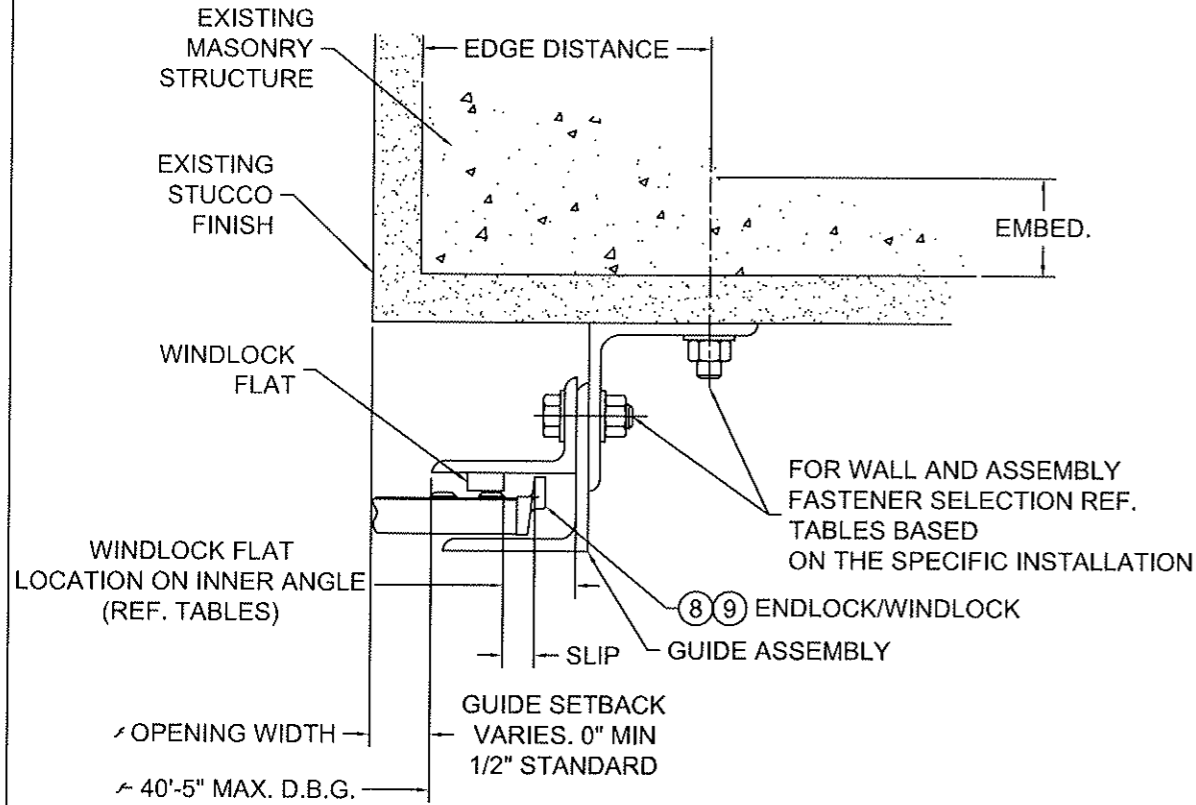
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NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

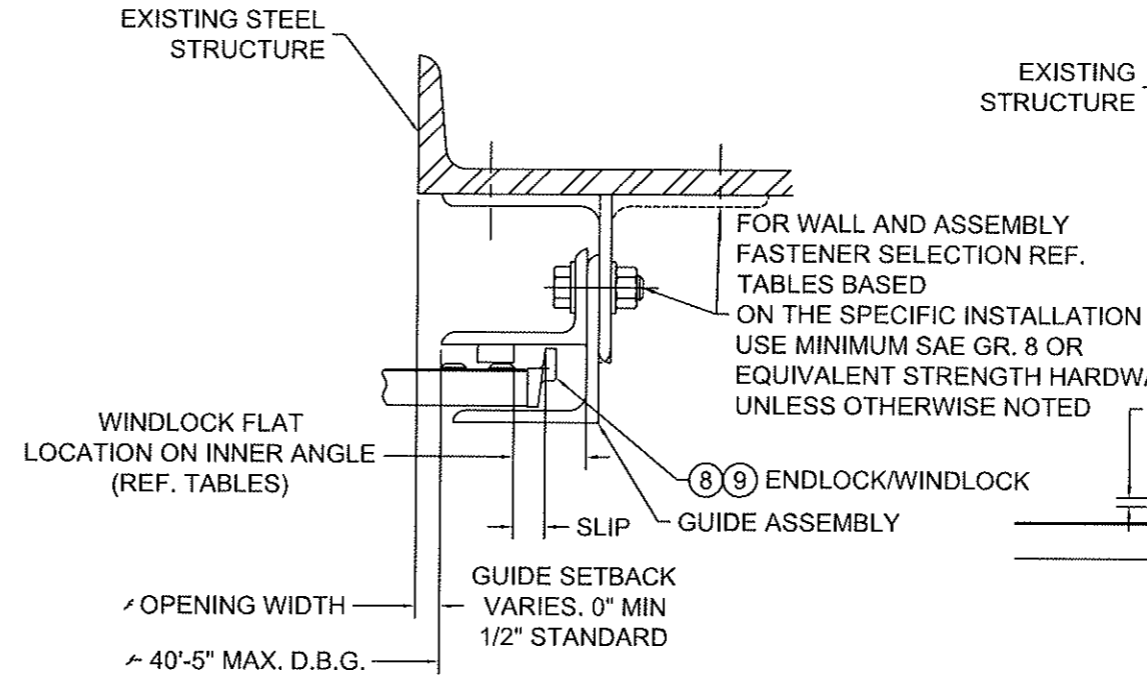
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DWG NO: ES-16-61-CIW			

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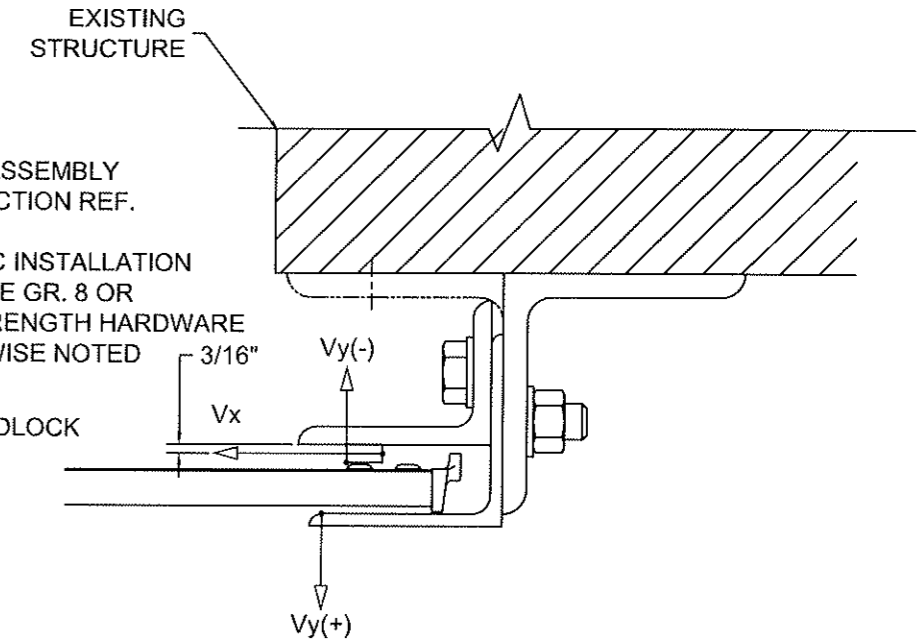


NOTE:
THROUGH BOLTING TO FILLED BLOCK REQUIRES THE USE OF 1/4" THICK STEEL OR STAINLESS STEEL CRUSH PLATE

⑤ GUIDE ASSEMBLY
CONCRETE OR FILLED BLOCK
STRUCTURE
(Z-GUIDE)



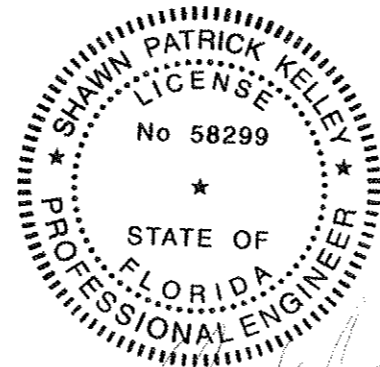
⑥ GUIDE ASSEMBLY
STEEL STRUCTURE
(Z-GUIDE OR E-GUIDE)



NOTE:

1. V_x & V_y 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 V_x & V_y FORCES SHOWN AND THE CORRESPONDING REACTIONS DUE TO THE ECCENTRICITIES OF THE FORCES.

⑦ SUPERIMPOSED LOAD DIAGRAM
SCALE: 3" = 1'-0"



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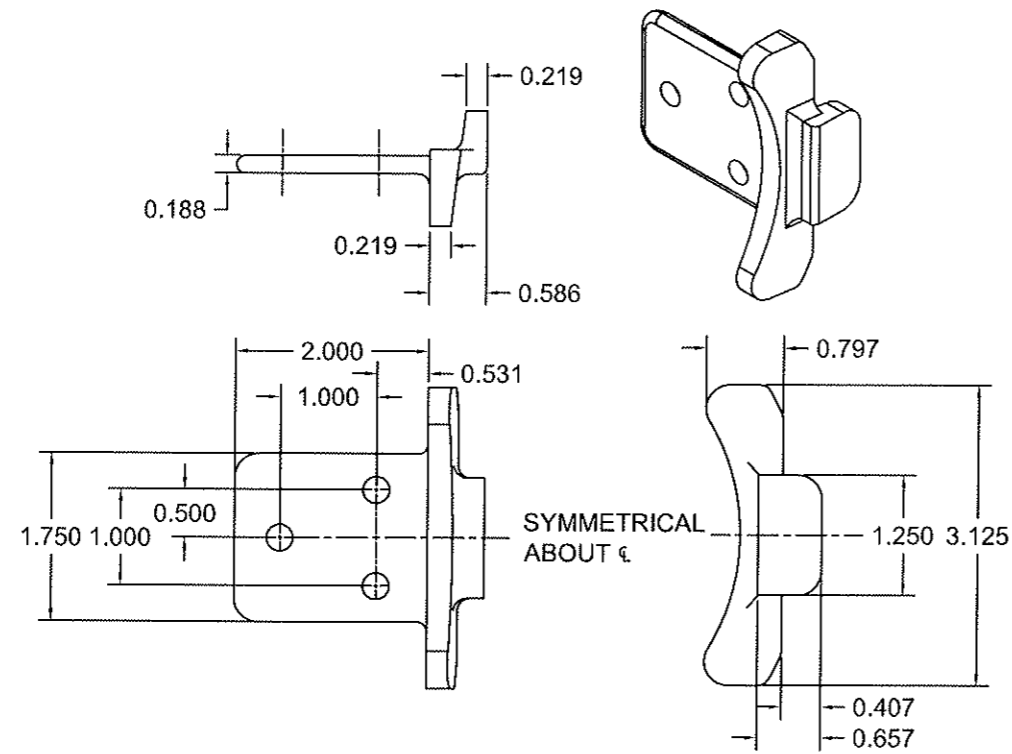
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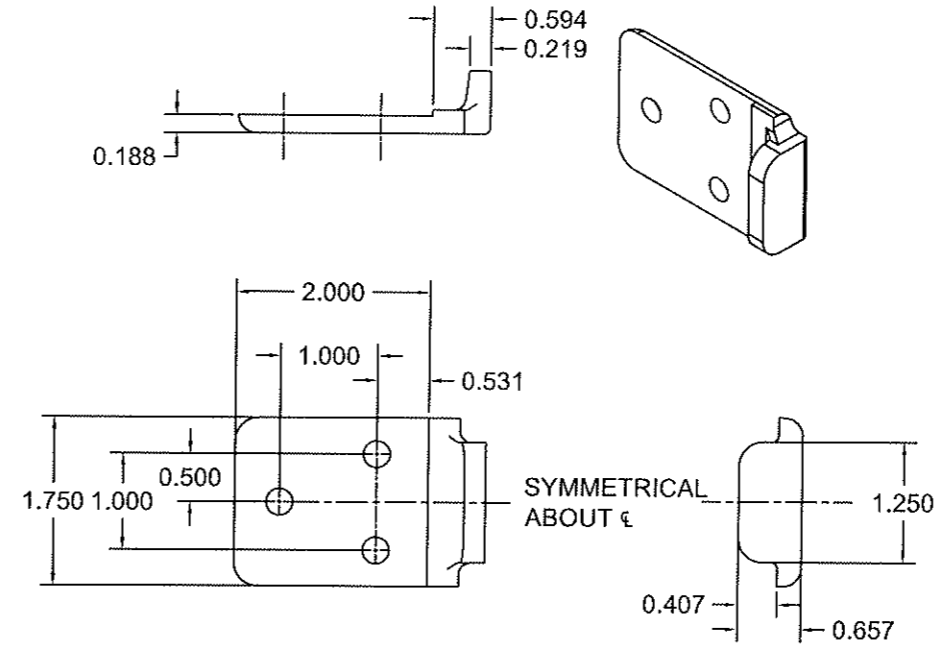
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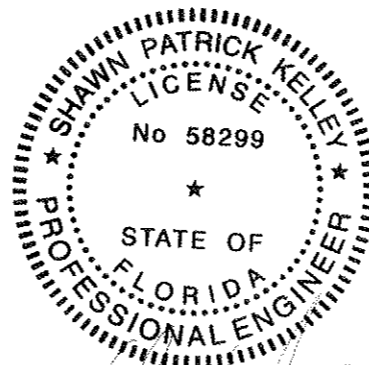
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⑧ ENDLOCK / WINDLOCK DETAIL, CP1152
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN ACCORDANCE WITH
 ASTM A123, GRADE 85 ZINC-COATING
 1/2 SCALE



⑨ WINDLOCK DETAIL, CP1153
 CAST MALLEABLE IRON ASTM A47, GRADE 32510, OR
 DUCTILE IRON PER ASTM A536 GRADE 65-45-12, GALVANIZED IN
 ACCORDANCE WITH ASTM A123, GRADE 85 ZINC-COATING
 1/2 SCALE



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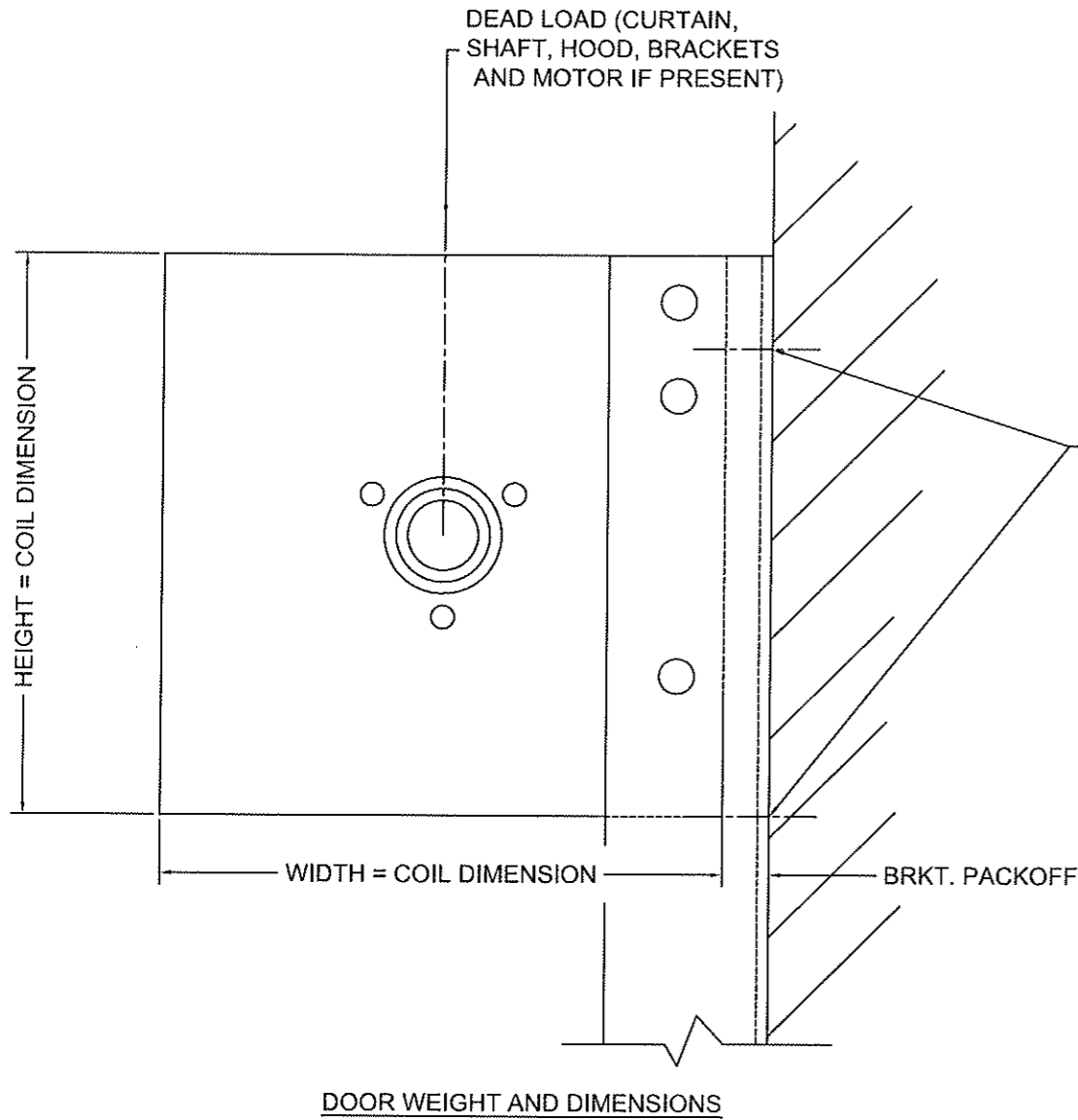
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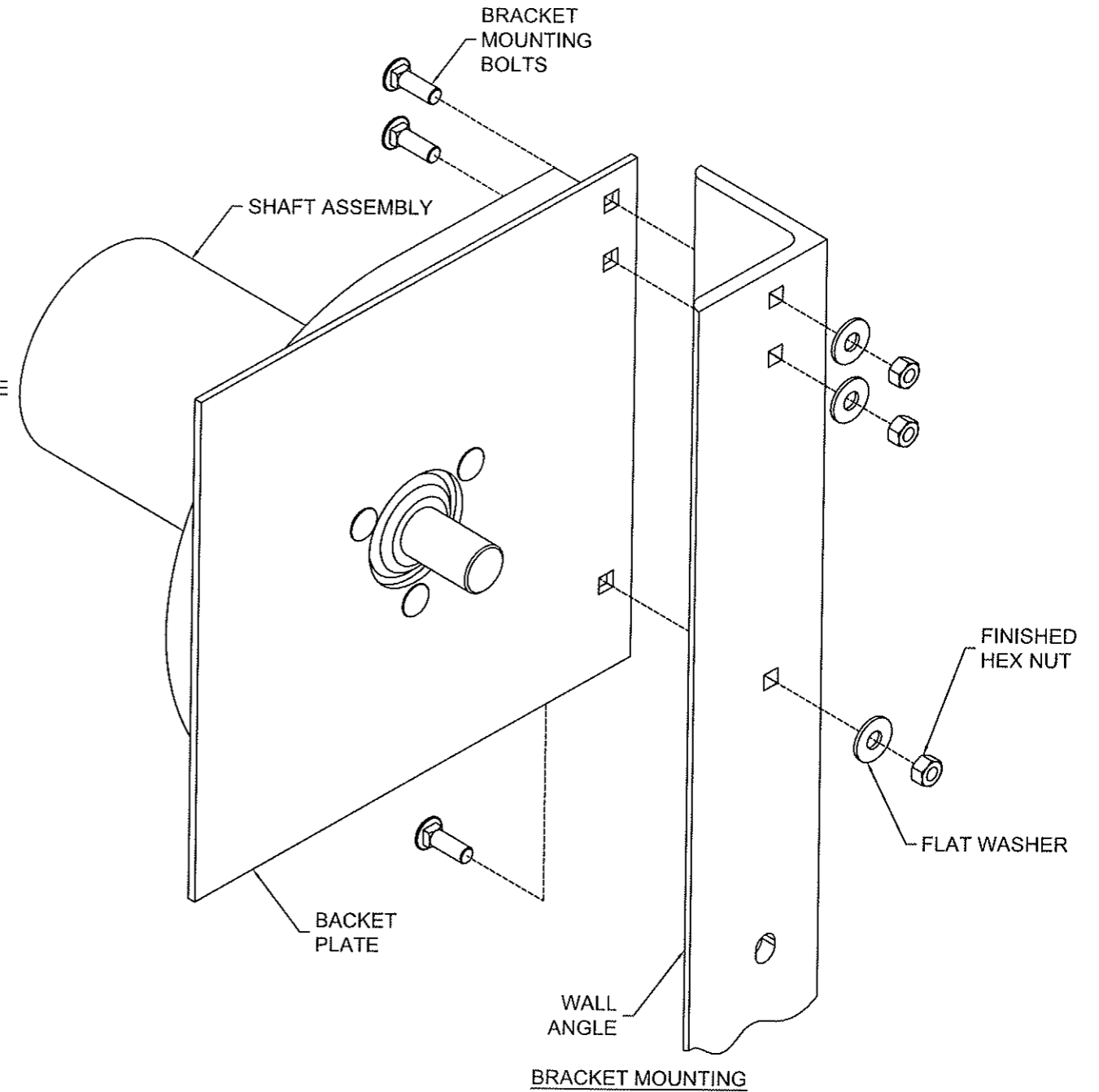
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FOR "WALL ANGLE" TO WALL CONNECTION, REF. TABLES BASED ON THE SPECIFIC INSTALLATION. USE AT LEAST ONE FASTENER OR WELD AT THE INDICATED LOCATIONS.

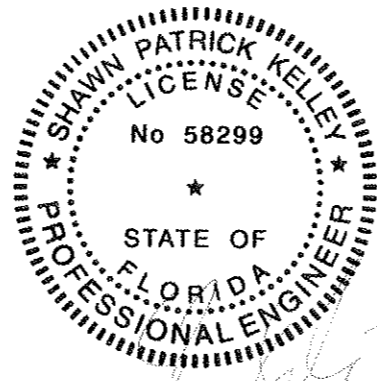


NOTE:

1. 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".

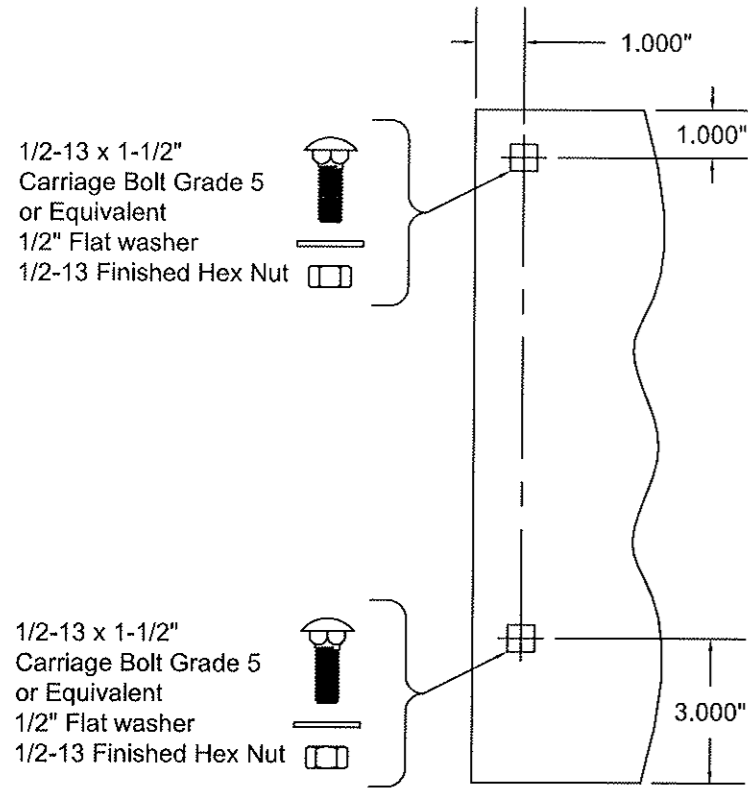
NOTE:

1. STANDARD BRACKET MOUNTING DETAIL IS DEPICTED, OTHER MOUNTINGS ARE AVAILABLE

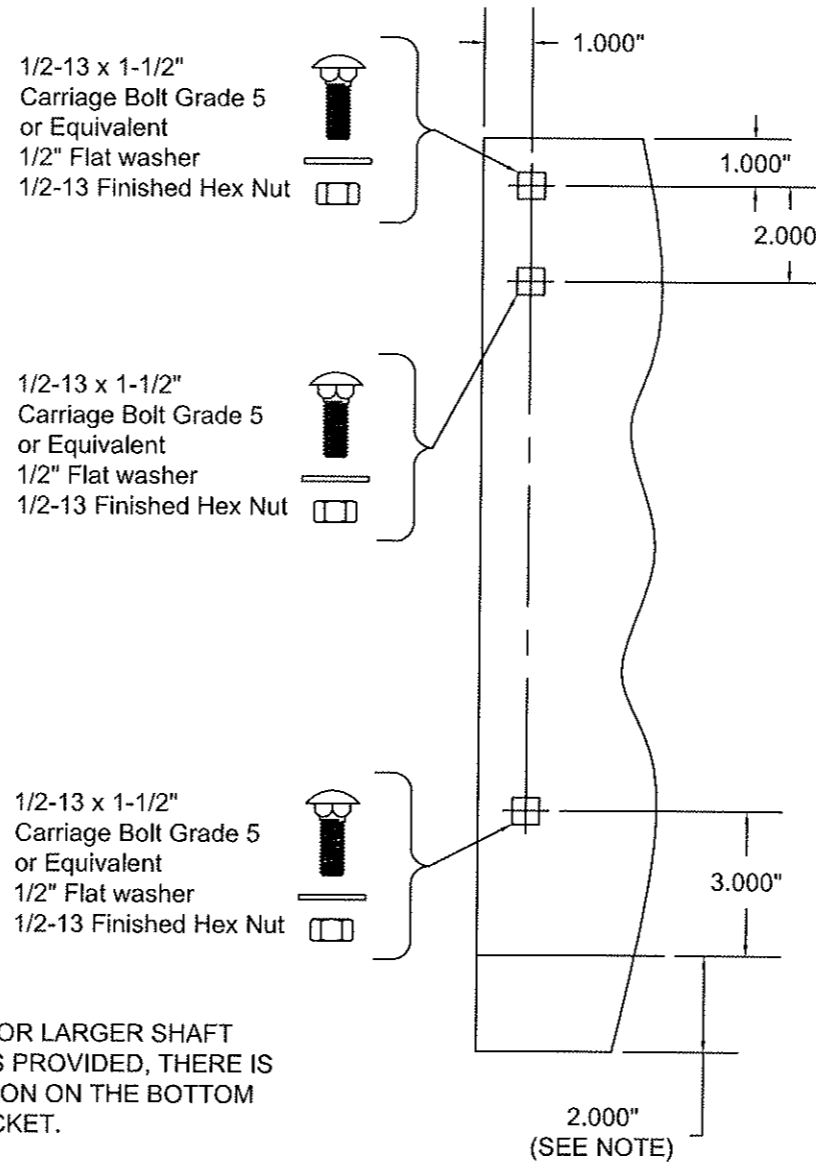


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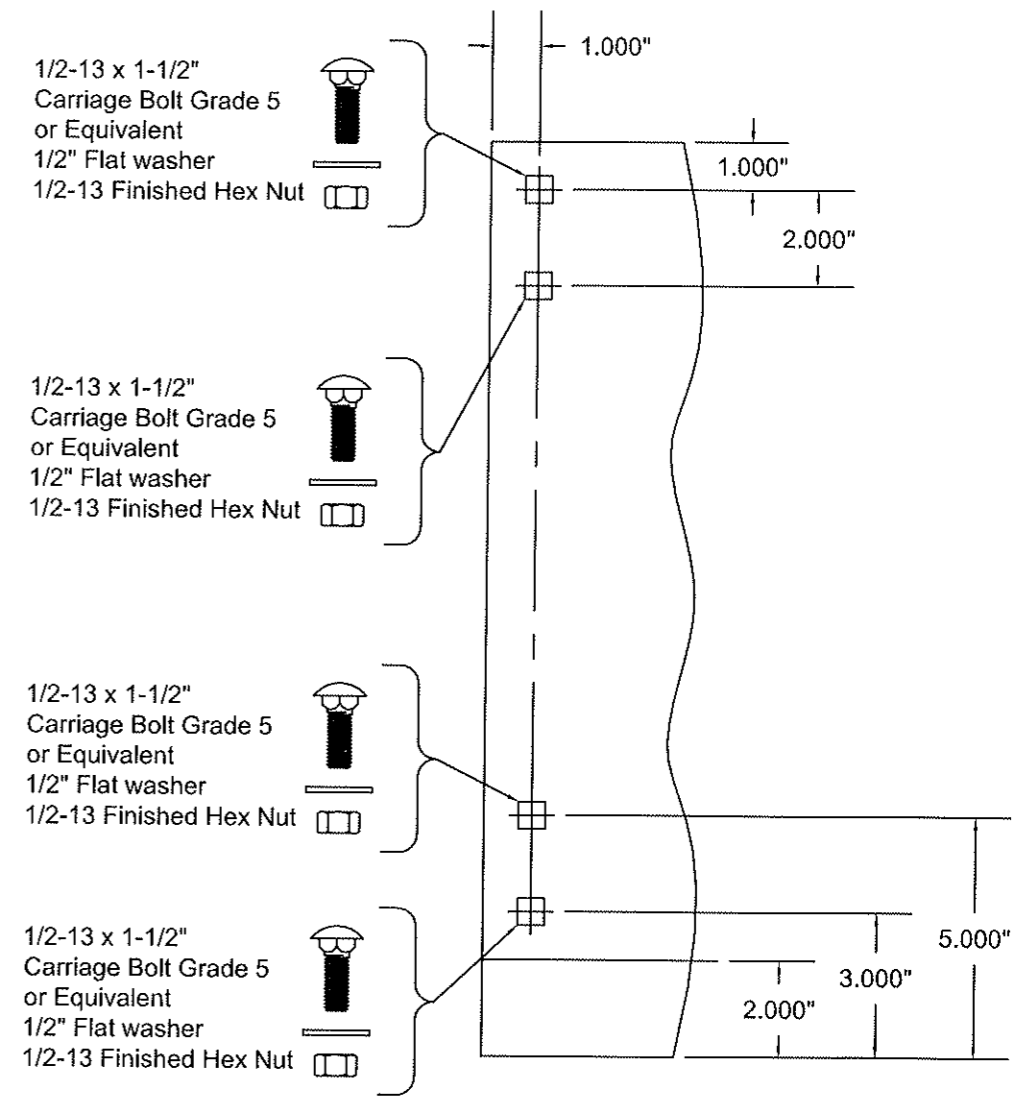


THRU 6"Ø SHAFT ASSEMBLY
 14" THRU 16" COIL DIMENSION
 MIN. THICKNESS 0.172" ASTM A36 STEEL
 OR ASTM A480 STAINLESS STEEL,
 TYPES 304 OR 316, MIN. 36 KSI YIELD STRENGTH
 SCALE: 1-1/2" = 1'-0"

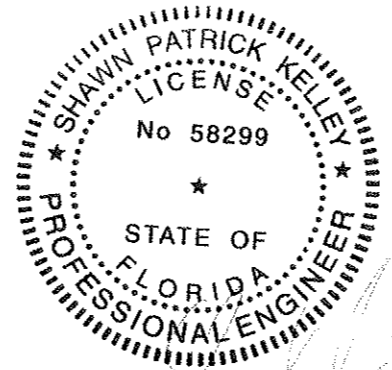


NOTE:
 WHEN A 8"Ø OR LARGER SHAFT
 ASSEMBLY IS PROVIDED, THERE IS
 A 2" EXTENSION ON THE BOTTOM
 OF THE BRACKET.

THRU 10"Ø SHAFT ASSEMBLY
 17" AND LARGER COIL DIMENSION
 MIN. THICKNESS 0.240" ASTM A36 STEEL
 OR ASTM A480 STAINLESS STEEL,
 TYPES 304 OR 316, MIN. 36 KSI YIELD STRENGTH
 SCALE: 1-1/2" = 1'-0"

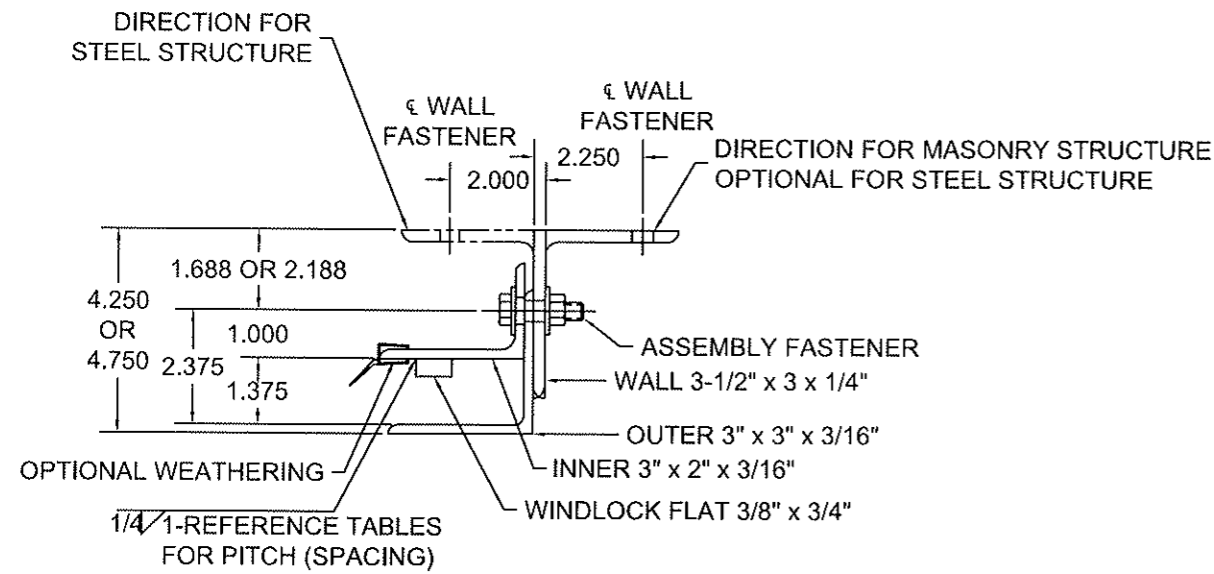


12"Ø SHAFT ASSEMBLY
 17" AND LARGER COIL DIMENSION
 MIN. THICKNESS 0.240" ASTM A36 STEEL
 OR ASTM A480 STAINLESS STEEL,
 TYPES 304 OR 316, MIN. 36 KSI YIELD STRENGTH
 SCALE: 1-1/2" = 1'-0"

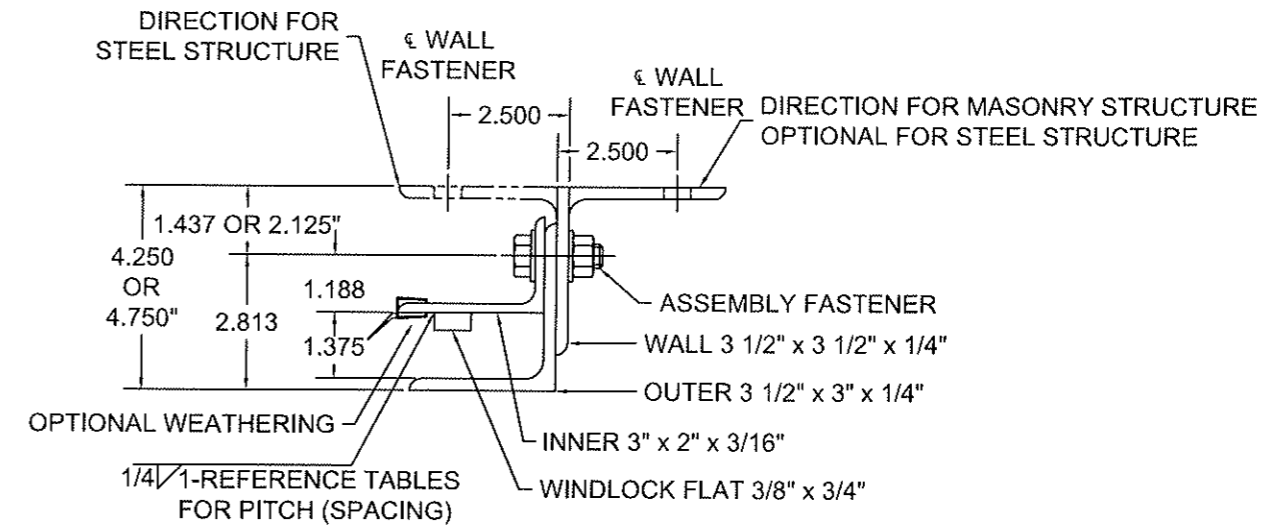


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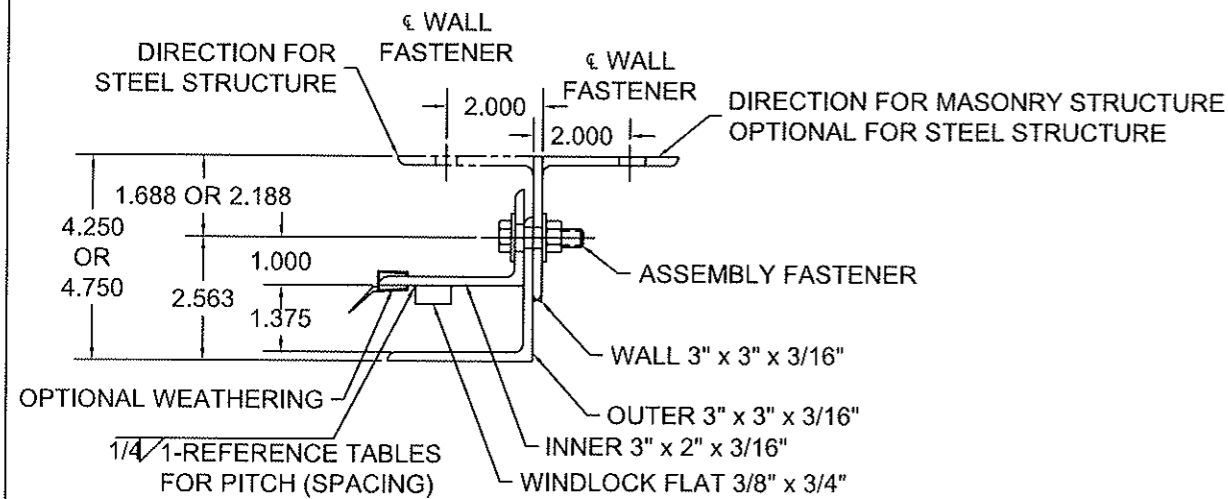
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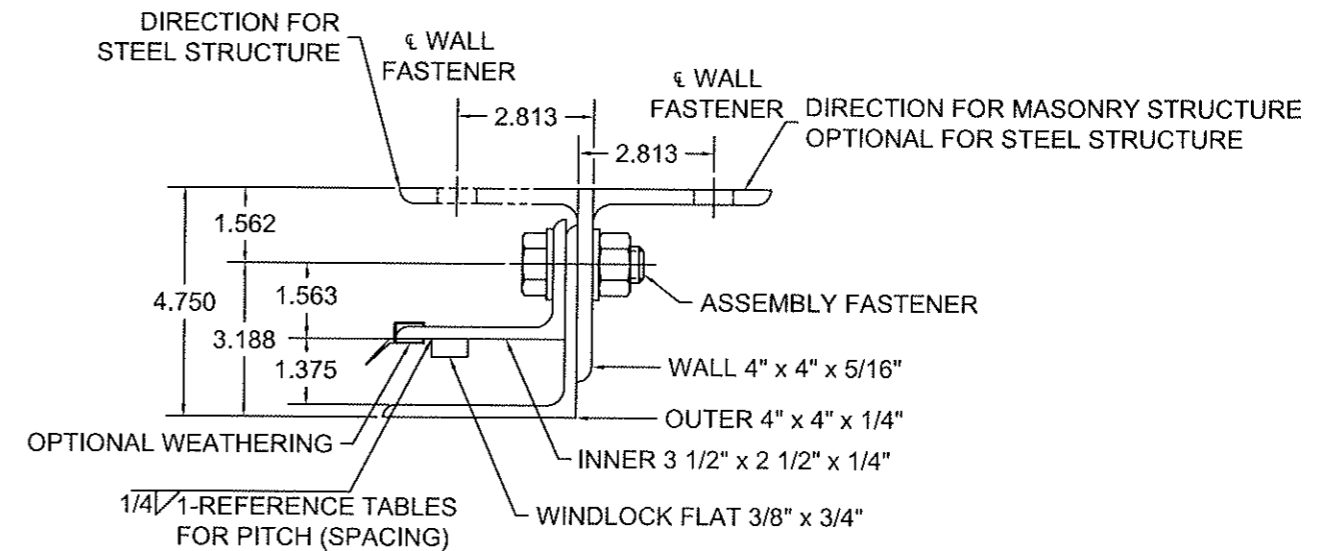
GUIDE ASSEMBLY TYPE 334
SCALE: 3" = 1'-0"



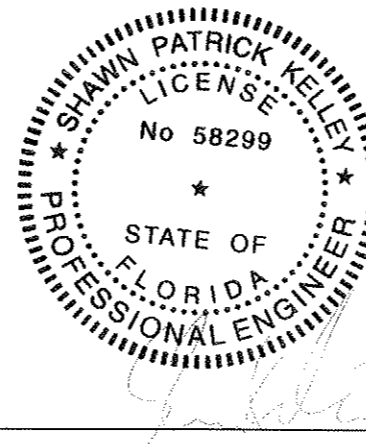
GUIDE ASSEMBLY TYPE 344
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE 333
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE 445
SCALE: 3" = 1'-0"



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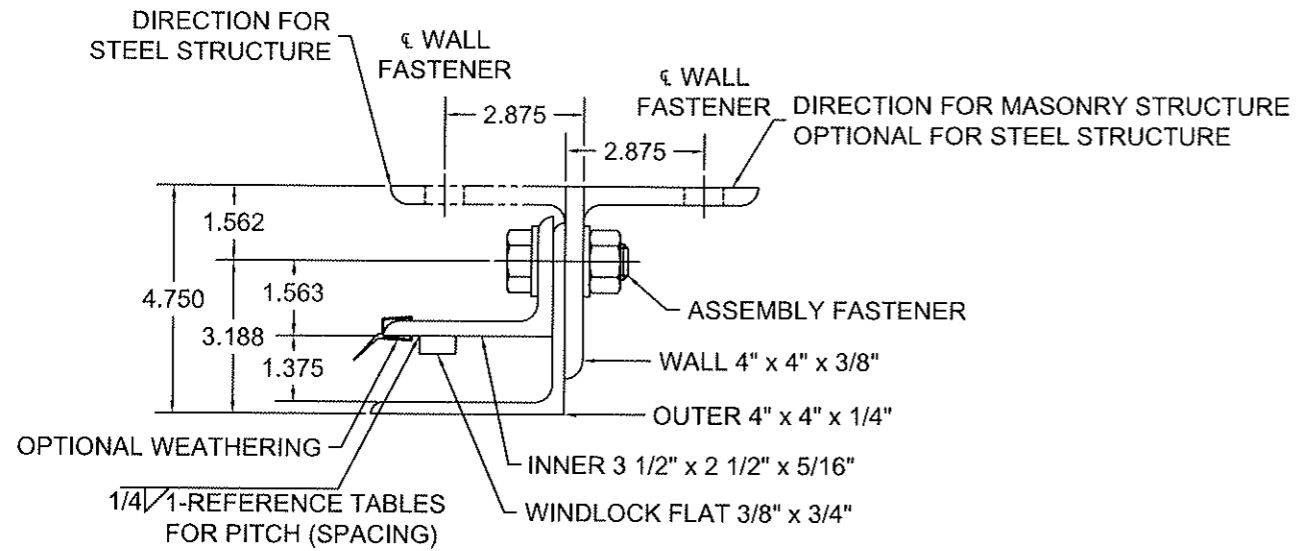
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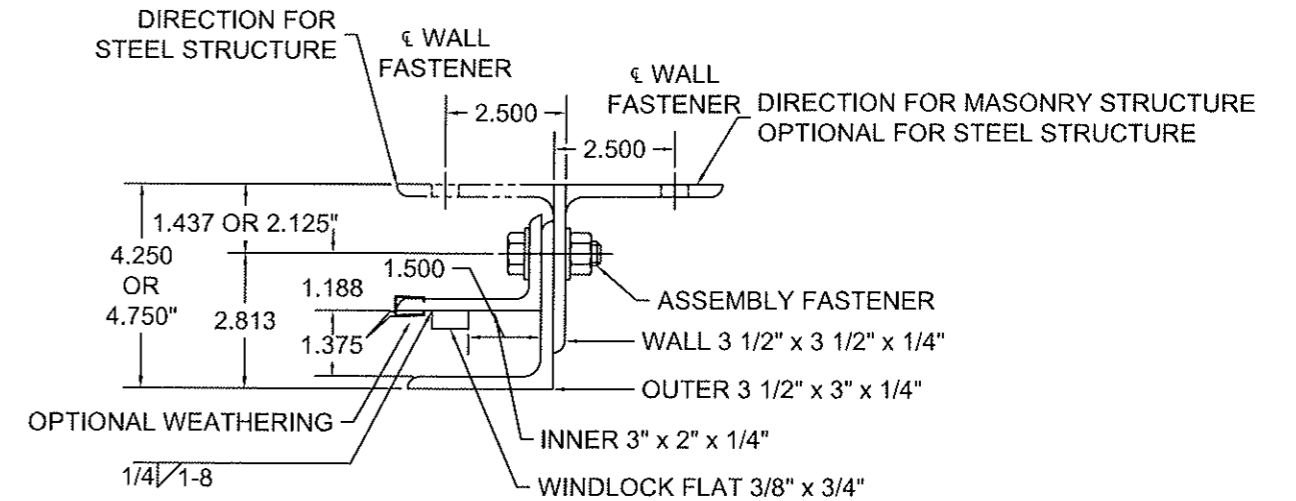
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SCALE: AS NOTED
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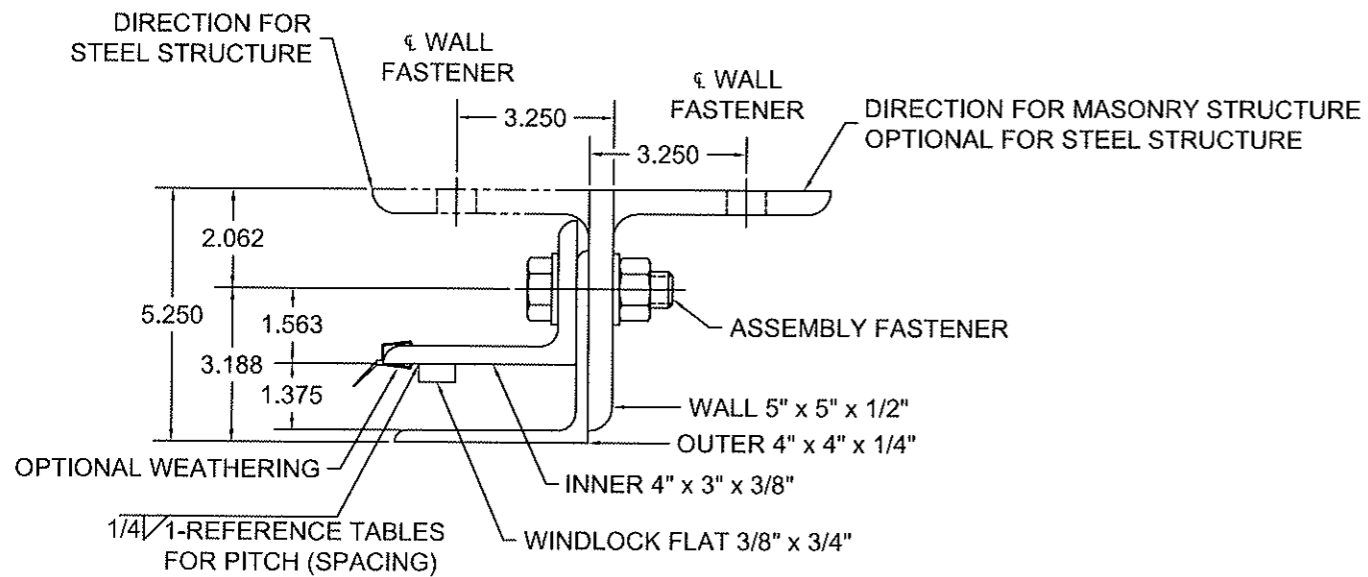
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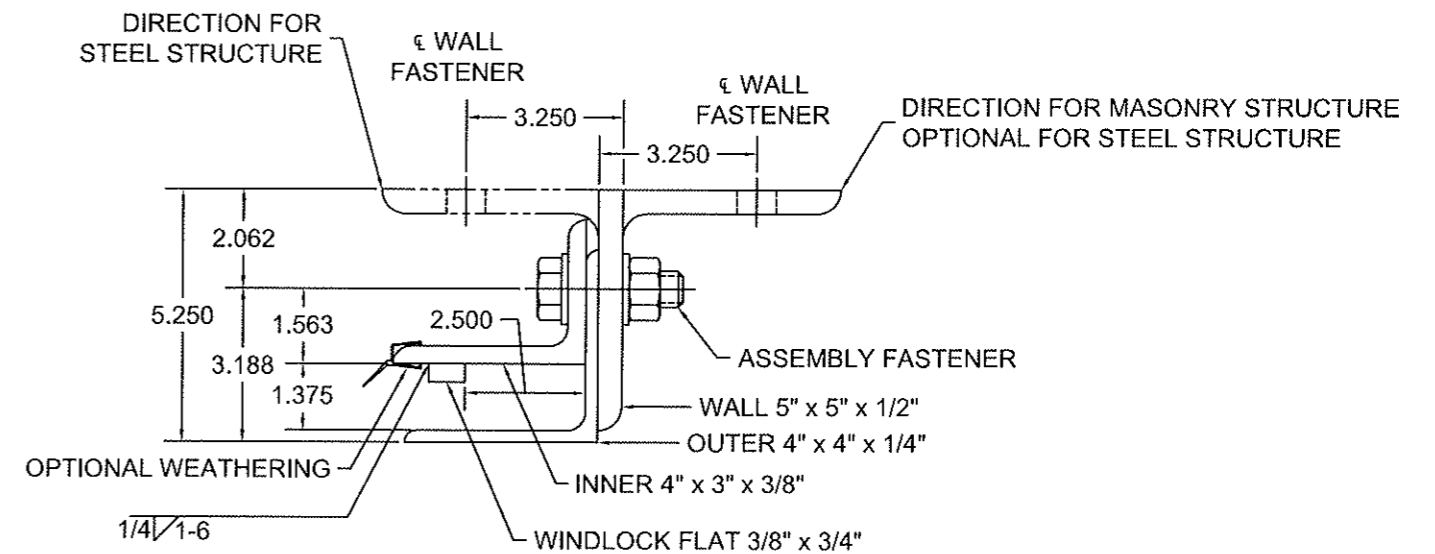
GUIDE ASSEMBLY TYPE 546
SCALE: 3" = 1'-0"



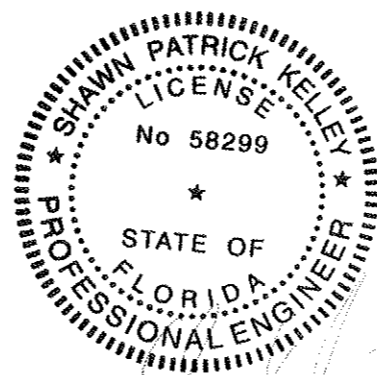
GUIDE ASSEMBLY TYPE DC 1
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE 648
SCALE: 3" = 1'-0"



GUIDE ASSEMBLY TYPE DC 2
SCALE: 3" = 1'-0"



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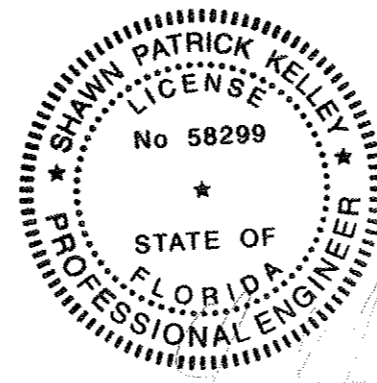
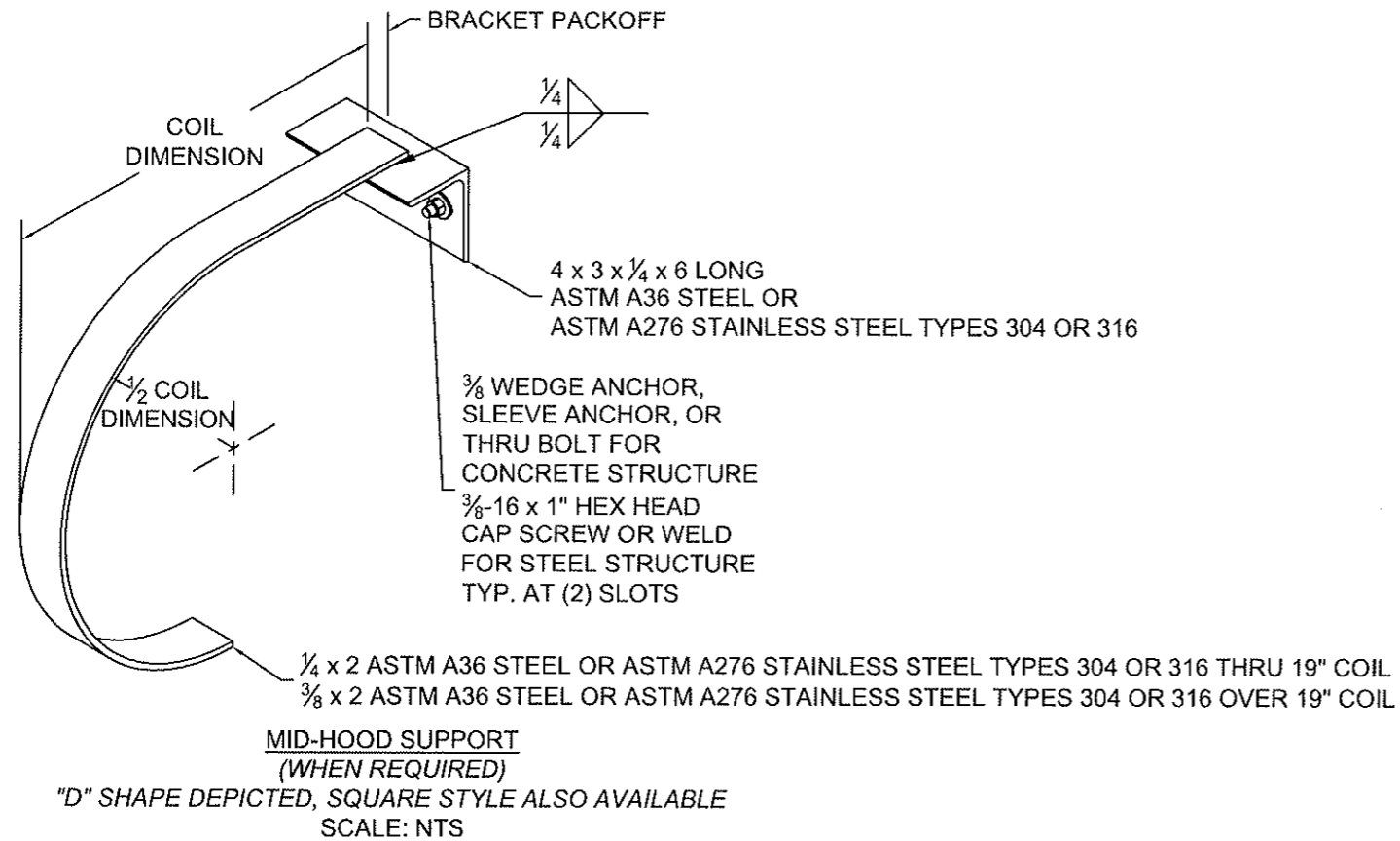
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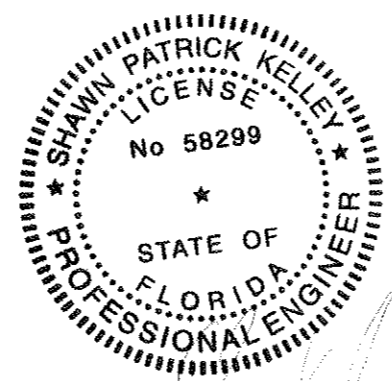
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CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 60 PSF													CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 50 PSF													CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																	
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Patch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)											
								HiHi Kwik Bolt 3			Simpson Wedge All			Red Head Tri-Bolt			Powers Wedge-Bolt			HiHi Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Welded			Tapped			Superimposed Loads								
Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Vx (+)	Vy (+)	Vx (-)	Vy (-)				
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	36	2 3/8	4	5 3/16	32	2 5/8	3 15/16	5 3/16	17	2	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	0	130	0	129			

CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 50 PSF													CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 60 PSF													CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 50 PSF																	
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Patch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)											
								HiHi Kwik Bolt 3			Simpson Wedge All			Red Head Tri-Bolt			Powers Wedge-Bolt			HiHi Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Welded			Tapped			Superimposed Loads								
Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Vx (+)	Vy (+)	Vx (-)	Vy (-)				
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	36	2 3/8	4	5 3/16	32	2 5/8	3 15/16	5 3/16	17	2	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	0	137	0	136			

CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 60 PSF													CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 50 PSF													CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 60 PSF																	
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Patch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)											
								HiHi Kwik Bolt 3			Simpson Wedge All			Red Head Tri-Bolt			Powers Wedge-Bolt			HiHi Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Welded			Tapped			Superimposed Loads								
Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Max O.C.	Embed	Min. Wall Thk.	Edge Dist.	Vx (+)	Vy (+)	Vx (-)	Vy (-)				
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	36	2 3/8	4	5 3/16	32	2 5/8	3 15/16	5 3/16	17	2	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	14	3	4 1/2	5 3/16	0	165	0	163			



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0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY: TJE
SIZE: B
SCALE: AS NOTED
SHEET: 11/15
DWG NO: ES-16-61-CIW

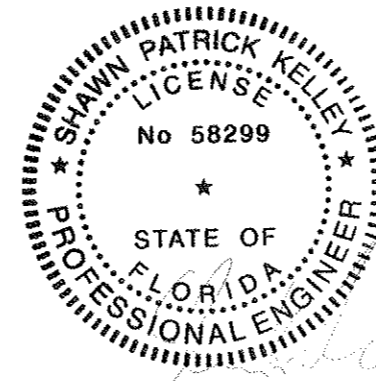
L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/02/14	TJE	1615

CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 65 PSF																																														
DBQ Up To	Windlock Flat Location	Sfp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)				Fitted CMU				Steel (Wall anchors are the same diameter as assembly fasteners)																														
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tri-Bolt				Powers Wedge Bolt				Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Welded			Tapped			Superimposed Loads							
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	28	2 3/8	4	5 3/16	15	2 5/8	3 15/16	5 3/16	16	3	4 1/2	5 3/16	16	2 1/2	3 3/4	5 3/16	8	3/8	2 1/2	5 3/16	14	3/4	5 1/4	5 3/16	15	3/8	5 3/16	36	7/16 x 5/8	36	36	3/16	0	146	0	144			
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12	1/2	18	36	2 1/4	4	5 3/4	30	4 1/2	6 3/4	5 3/4	22	4 1/8	6 3/16	5 3/4	24	3 1/2	5 1/4	5 3/4	9	1/2	3 1/2	5 3/4	13	3/4	5 1/2	5 3/4	30	1/2	5 3/4	36	9/16 x 3/4	36	36	1/4	0	147	0	144			
14'-5"	1 1/2	0.656	CP1152 & CP1153	DC1	8	1/2	17	8	3 1/2	5 1/4	5 3/4	8	4 1/2	6 3/4	5 3/4																															

CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 70 PSF																																											
DBQ Up To	Windlock Flat Location	Sfp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)				Fitted CMU				Steel (Wall anchors are the same diameter as assembly fasteners)																											
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tri-Bolt				Powers Wedge Bolt				Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Welded			Tapped			Superimposed Loads				
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	28	2 3/8	4	5 3/16	14	2 5/8	3 15/16	5 3/16	16	3	4 1/2	5 3/16	11	2	3	5 3/16	8	3/8	2 1/2	5 3/16	13	3/4	5 1/4	5 3/16	14	3/8	5 3/16	36	7/16 x 5/8	36	36	3/16	0	157	0	155
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12	1/2	18	28	2 1/4	4	5 3/4	28	4 1/2	6 3/4	5 3/4	20	4 1/8	6 3/16	5 3/4	22	3 1/2	5 1/4	5 3/4	8	1/2	3 1/2	5 3/4	12	3/4	5 1/4	5 3/4	28	1/2	5 3/4	36	9/16 x 3/4	36	36	3/4	0	158	0	155

CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 80 PSF																																											
DBQ Up To	Windlock Flat Location	Sfp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)				Fitted CMU				Steel (Wall anchors are the same diameter as assembly fasteners)																											
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tri-Bolt				Powers Wedge Bolt				Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Welded			Tapped			Superimposed Loads				
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	28	2 3/8	4	5 3/16	12	2 5/8	3 15/16	5 3/16	13	3	4 1/2	5 3/16	13	2 1/2	3 3/4	5 3/16	8	3/2	3 1/2	5 3/16	11	3/4	5 1/4	5 3/16	12	3/8	5 3/16	36	7/16 x 5/8	36	36	3/16	0	180	0	177
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12	1/2	18	6	2 1/4	4	5 3/4	25	4 1/2	6 3/4	5 3/4	18	4 1/8	6 3/16	5 3/4	19	3 1/2	5 1/4	5 3/4	8	3/4	3 1/4	5 3/4	10	3/4	5 1/4	5 3/4	25	1/2	5 3/4	36	9/16 x 3/4	36	36	1/4	0	180	0	177

CP0020 - 0.0256 Minimum Thickness Galvanized or Stainless Steel - 90 PSF																																											
DBQ Up To	Windlock Flat Location	Sfp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)				Fitted CMU				Steel (Wall anchors are the same diameter as assembly fasteners)																											
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tri-Bolt				Powers Wedge Bolt				Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Welded			Tapped			Superimposed Loads				
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	9	2 3/8	4	5 3/16	11	2 5/8	3 15/16	5 3/16	11	3	4 1/2	5 3/16	12	2 1/2	3 3/4	5 3/16	8	3/4	3 1/2	5 3/16	10	3/4	5 1/4	5 3/16	11	3/8	5 3/16	36	7/16 x 5/8	36	36	3/16	0	202	0	199
4'-5"	1 1/2	0.656	CP1152 & CP1153	344	12	1/2	18	36	3 5/8	4	5 3/4	22	4 1/2	6 3/4	5 3/4	16	4 1/8	6 3/16	5 3/4	17	3 1/2	5 1/4	5 3/4	12	3/4	4 3/8	5 3/4	9	3/4	5 1/4	5 3/4	22	1/2	5 3/4	36	9/16 x 3/4	36	36	1/4	0	203	0	199



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ANGLES = +/- 1/2 DEG

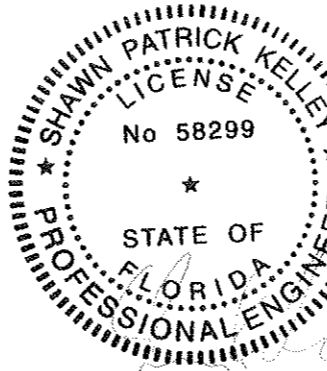
TITLE: WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY: TJE	SIZE: B	SCALE: AS NOTED	SHEET: 12/15
DWG NO: ES-16-61-CIW			

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/02/14	TJE	1615

D&G Up To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Web Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Cracked Concrete Minimum 3,000 PSI Compressive Strength												Steel (Wall anchors are the same diameter as assembly fasteners)				Superimposed Loads																								
								Hilti Kwik Bolt 3			Simpson Wedge All			Red Head Tru-Bolt			Powers Wedge-Bolt			Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Hilti Kwik Bolt TZ			Simpson Strong-Bolt 2			ITW Redhead Tru-Bolt		Welded		Through Bolt		Tapped		Vv (+)	Vv (-)	Vv (+)	Vv (-)														
Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.					
10'-5"	1/2	0.656	CP1152 & CP1153	333	12	3/8	18	36	2 3/8	4	5 3/16	21	2 5/8	3 15/16	5 3/16	22	3	4 1/2	5 3/16	17	2	3	5 3/16	12	3/8	7 1/2	5 3/16	8	3/8	2 5/8	5 3/16	21	3/8	2 5/8	5 3/16	19	3/8	2 5/16	4	5 3/16	36	3/8	2 7/8	5 3/16	36	3/8	2 7/8	5 3/16	36	3/8	2 7/8	5 3/16	36	3/8	2 7/8	5 3/16	0	105	0	105

D&G Up To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Web Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Cracked Concrete Minimum 3,000 PSI Compressive Strength												Steel (Wall anchors are the same diameter as assembly fasteners)				Superimposed Loads																								
								Hilti Kwik Bolt 3			Simpson Wedge All			Red Head Tru-Bolt			Powers Wedge-Bolt			Hilti Kwik Bolt 3			Simpson Strong-Bolt 2			Through Bolt			Hilti Kwik Bolt TZ			Simpson Strong-Bolt 2			ITW Redhead Tru-Bolt		Welded		Through Bolt		Tapped		Vv (+)	Vv (-)	Vv (+)	Vv (-)														
Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	
8'-5"	1/2	0.656	CP1152 & CP1153	333	12	3/8	18	36	2 3/8	4	5 3/16	17	2 5/8	3 15/16	5 3/16	18	3	4 1/2	5 3/16	14	2	3	5 3/16	10	3/8	7 1/2	5 3/16	8	3/8	2 5/8	5 3/16	17	3/8	2 5/16	4	5 3/16	36	3/8	2 7/8	5 3/16	36	3/8	2 7/8	5 3/16	36	3/8	2 7/8	5 3/16	36	3/8	2 7/8	5 3/16	36	3/8	2 7/8	5 3/16	0	128	0	127



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FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION
NON-INSULATED ROLLING STEEL DOOR
CP0020 SLAT IMPACT RATED

DRAWN BY: TJE
SIZE: B
SCALE: AS NOTED
SHEET: 13/15
DWG NO: ES-16-61-CIW

L'TR	REVISION	DATE	BY	E.C.O.
*	ORIGINAL ISSUE	10/02/14	TJE	1615

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 60 PSF

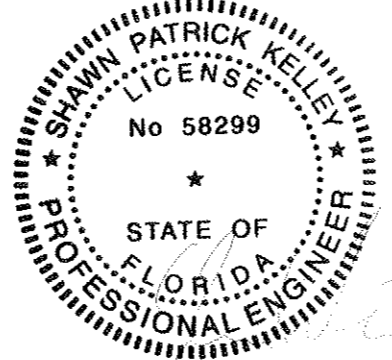
DBG Up To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU												Cracked Concrete Minimum 3,000 PSI Compressive Strength												Steel (Wall anchors are the same diameter as assembly fasteners)												Superimposed Loads				
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt				Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt				Hilti Kwik Bolt 17				Simpson Strong-Bolt 2				ITW Redhead Tru-Bolt				Welded		Through Bolt		Tapped								
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)										
7'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	36	2 3/8	4	5 3/16	15	2 5/8	3 15/16	5 3/16	15	3	4 1/2	5 3/16	12	2	3	5 3/16	8	3/8	2 1/2	5 3/16	14	3/4	5 3/16	14	2 1/2	3 3/4	5 3/16	9	1/2	3 1/2	5 3/16	13	3/4	5 1/4	5 3/16	14	3/4	5 3/16	14	2 1/2	2 1/2	4	5 3/16	36	7/16 x 5/8	36	36	3/16	0	150	0	150	0

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 50 PSF

DBG Up To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)												Superimposed Loads			
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt				Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt				Welded				Through Bolt		Tapped					
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
6'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	36	2 3/8	4	5 3/16	14	2 5/8	3 15/16	5 3/16	14	3	4 1/2	5 3/16	11	2	3	5 3/16	8	3/8	2 1/2	5 3/16	13	3/4	5 1/4	5 3/16	14	3/8	5 3/16	36	7/16 x 5/8	36	36	3/16	0	162	0	162	0			

CP0020 - 0.0405 Minimum Thickness Galvanized or Stainless Steel - 60 PSF

DBG Up To	Windlock Flat Location	Slp	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)												Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)												Superimposed Loads			
								Hilti Kwik Bolt 3				Simpson Wedge All				Red Head Tru-Bolt				Powers Wedge-Bolt				Hilti Kwik Bolt 3				Simpson Strong-Bolt 2				Through Bolt				Welded				Through Bolt		Tapped					
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Thickness	Vx (+)	Vy (+)	Vx (-)	Vy (-)	
6'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	36	2 3/8	4	5 3/16	14	2 5/8	3 15/16	5 3/16	14	3	4 1/2	5 3/16	11	2	3	5 3/16	8	3/8	2 1/2	5 3/16	13	3/4	5 1/4	5 3/16	14	3/8	5 3/16	36	7/16 x 5/8	36	36	3/16	0	195	0	195	0			



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 FRACTIONAL = +/- 1/32
 ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION NON-INSULATED ROLLING STEEL DOOR CP0020 SLAT IMPACT RATED	DRAWN BY: TJE	SIZE: B	SCALE: AS NOTED	SHEET: 14/15
DWG NO: ES-16-61-CIW				

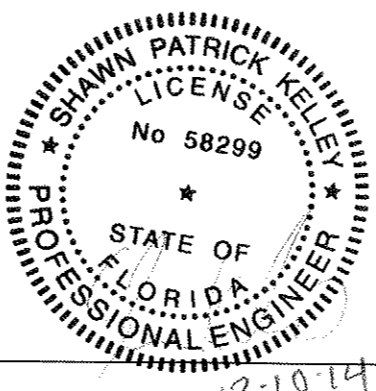
DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																		Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)						Superimposed Loads																	
								Hilti Kwik Bolt 3						Simpson Wedge All						Red Head Tru-Bolt						Powers Wedge-Bolt						Hilti Kwik Bolt 3						Simpson Strong-Bolt 2						Through Bolt						Welded		Through Bolt		Tapped							
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Vx (+)	Vy (+)	Vx (-)	Vy (-)						
3'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	11	2 5/8	3 15/16	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	0	232	0	232						

DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																		Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)						Superimposed Loads																	
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								Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Vx (+)	Vy (+)	Vx (-)	Vy (-)		
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	16	2 3/8	4	5 3/16	11	2 5/8	3 15/16	5 3/16	12	3	4 1/2	5 3/16	12	3	4 1/2	5 3/16	12	3	4 1/2	5 3/16	12	3	4 1/2	5 3/16	12	3	4 1/2	5 3/16	12	3	4 1/2	5 3/16	12	3	4 1/2	5 3/16	12	3	4 1/2	5 3/16	12	3	4 1/2	5 3/16	0	192	0	192						

DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																		Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)						Superimposed Loads																	
								Hilti Kwik Bolt 3						Simpson Wedge All						Red Head Tru-Bolt						Powers Wedge-Bolt						Hilti Kwik Bolt 3						Simpson Strong-Bolt 2						Through Bolt						Welded		Through Bolt		Tapped							
								Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Vx (+)	Vy (+)	Vx (-)	Vy (-)		
5'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	11	2 3/8	5	5 3/16	10	2 5/8	3 15/16	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	0	220	0	220										

DBG Up To	Windlock Flat Location	Slip	Windlock	Guide Assembly	Windlock Weld Pitch	Assembly Fastener Diameter	Assembly Fastener Spacing	Concrete Minimum 3,000 PSI Compressive Strength (Anchors are the same diameter as assembly fasteners)																		Filled CMU												Steel (Wall anchors are the same diameter as assembly fasteners)						Superimposed Loads																	
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4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	9	2 3/8	4	5 3/16	11	2 5/8	3 15/16	5 3/16	11	3	4 1/2	5 3/16	11	3	4 1/2	5 3/16	11	3	4 1/2	5 3/16	11	3	4 1/2	5 3/16	11	3	4 1/2	5 3/16	11	3	4 1/2	5 3/16	11	3	4 1/2	5 3/16	11	3	4 1/2	5 3/16	11	3	4 1/2	5 3/16	0	220	0	220						

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								Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Max O.C.	Embed	Min. Wall Thick.	Edge Dist.	Vx (+)	Vy (+)	Vx (-)	Vy (-)		
4'-5"	1 1/2	0.656	CP1152 & CP1153	333	12	3/8	18	8	2 3/8	5	5 3/16	10	2 5/8	3 15/16	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	10	3	4 1/2	5 3/16	0	220	0	220						



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Unless otherwise specified, dimensions are in inches & tolerances are:
0.000 = +/- 0.031
FRACTIONAL = +/- 1/32
ANGLES = +/- 1/2 DEG

TITLE: WIND LOAD CONFIGURATION NON-INSULATED ROLLING STEEL DOOR CP0020 SLAT IMPACT RATED	DRAWN BY: TJE	SIZE: B	SCALE: AS NOTED	SHEET: 15/15
DWG NO:		ES-16-61-CIW		