

- NOTES
- DESIGNED AND TESTED IN ACCORDANCE WITH WIND LOAD PROVISIONS OF THE FLORIDA BUILDING CODE AND INTERNATIONAL BUILDING CODE. PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WIND LOAD CONSTRUCTION DETAILS.
 - PRESSURES LISTED AS POSITIVE/NEGATIVE (DESIGN).
 - SECTION HEIGHTS MAY VARY TO CREATE VARIOUS DOOR HEIGHTS. 24" MAXIMUM SECTION HEIGHT.
 - LIFT CLEARANCE OR FULL VERTICAL TRACK MAY ALSO BE USED.
 - LOW HEADROOM TRACK MAY BE USED WITH EITHER DRAWBAR OPERATOR OR LOCK.
 - FASTENING METHODS (TRACK TO WALL), SPACING BASED ON BRACKET SPACING (SEE CHART BELOW):

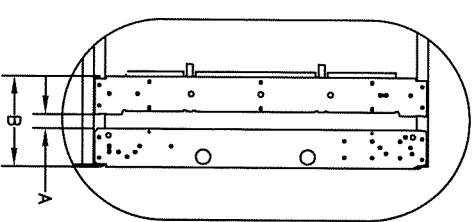
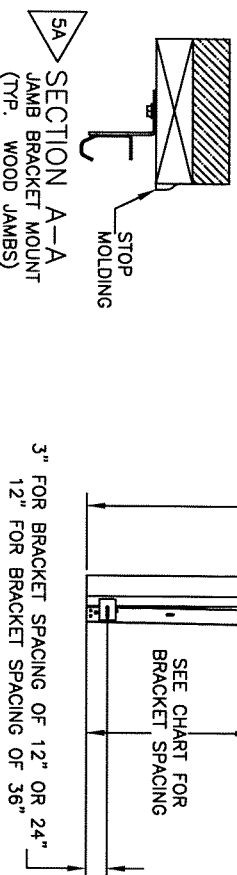
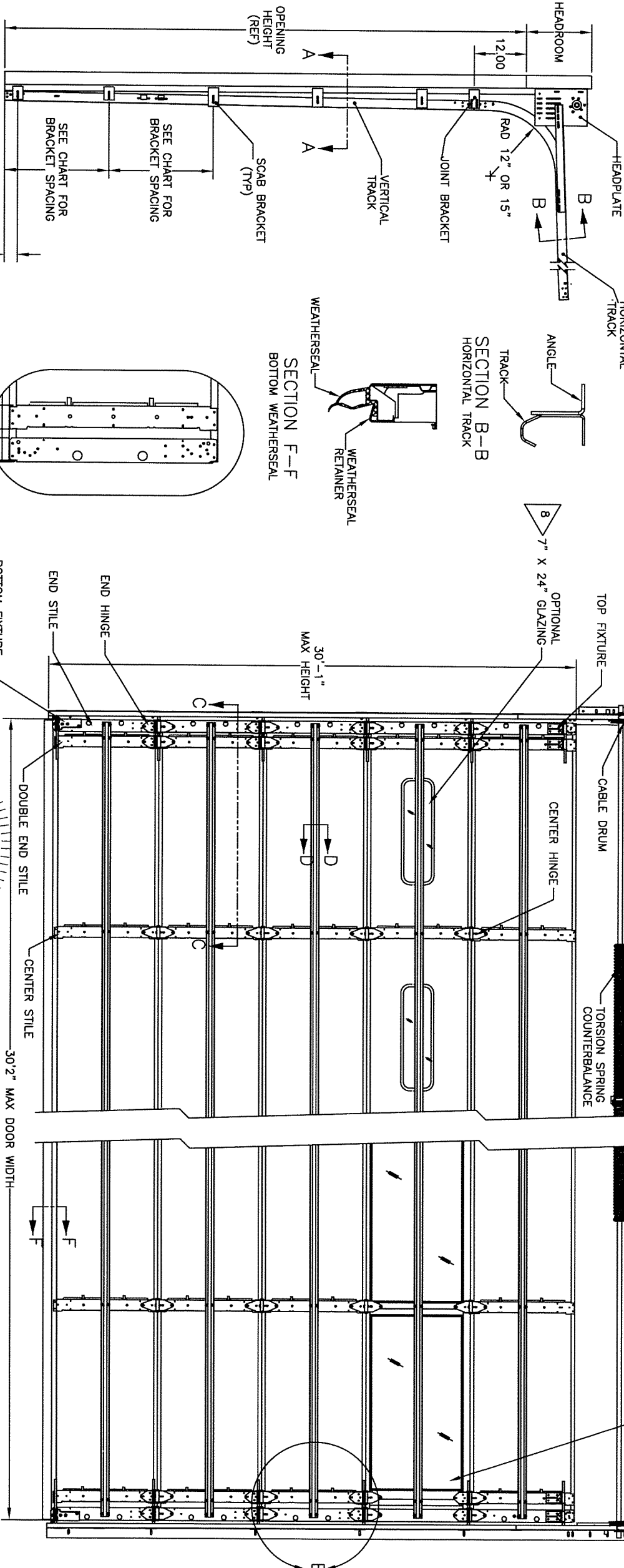
- JAMB BRACKETS (TYP WOOD JAMBS) STYLE TRACK-- 5/16" x 1 3/4" LAG BOLT OR EQUIVALENT.
- ALTERNATE ANGLE MOUNT--SEE SHEET 2
- FOR COMMERCIAL HARDWARE DETAILS SEE DRAWING 408717.
- STRUTS TO BE ATTACHED ± 3" FROM CENTER LINE OF SECTION.
- MULTIPLE ALUMINUM FULL VIEW OR GLAZED SECTIONS MAY REPLACE ANY SECTION EXCEPT TOP AND BOTTOM SECTIONS.
- ALUMINUM FULL VIEW SECTIONS TO BE INSTALLED WITH MIN 1/8 DSB GLAZING AND ALUMINUM RETAINERS TO MEET THE LISTED STATIC DESIGN PRESSURES.
- MAX WIDTH 22 FT. FOR ALUMINUM FULL VIEW SECTIONS AT THE LISTED DESIGN PRESSURES.
- GLAZING FRAME OPTION--1/8" MIN DSB GLAZING MEETS UNIFORM STATIC DESIGN PRESSURES LISTED ON

- THIS DRAWING: GLAZING FRAME SHALL HAVE MAX HEIGHT OF 7" AND MAX LENGTH OF 24".
- GLAZING OPTIONS ARE NOT IMPACT RESISTANT AND DO NOT MEET THE REQUIREMENTS FOR WIND BORNE DEBRIS REGIONS.
- STRUTS ON FULL VIEW OF GLAZED SECTION(S) TO MATCH THE STRUTS ON THE ADJACENT STEEL SECTIONS.
9. STRUT OR Z STRUT INSTALLATION:
- FOR STRUTS ONLY-- USE ONE SCREW (P/N 605879--0002) ON BOTH SIDES OF STRUT AT EACH END STILE AND CENTER STILE.
 - FOR Z STRUT (P/N 407756--XXXX) OR 6" C-CHANNEL (410819--XXXXXX).

- USE 1 SCREW (P/N 605879--0002) AT EACH END STILE AND CENTER STILE TO ATTACH.
- ATTACH A STRUT STRAP AT EVERY HINGE.
- USE ONE SCREW AT THE TOP AND BOTTOM RAIL OF THE SECTION AND ONE SCREW THROUGH Z STRUT (ATTACH 6" TALL C-CHANNEL TO STRUT WITH 2X SCREWS PER STRUT LOCATION).
- REFERENCE WINDLOAD SPECIFICATION CHART FOR END STILE REQUIREMENTS (SEE DETAIL E).
- WHEN STANDARD SECTION WITH DOUBLE END STILE, A = 1.00" AND B = 6.5"
- WHEN FULL VISION WITH DOUBLE END STILE, A = 1.00" AND B = 6.5"

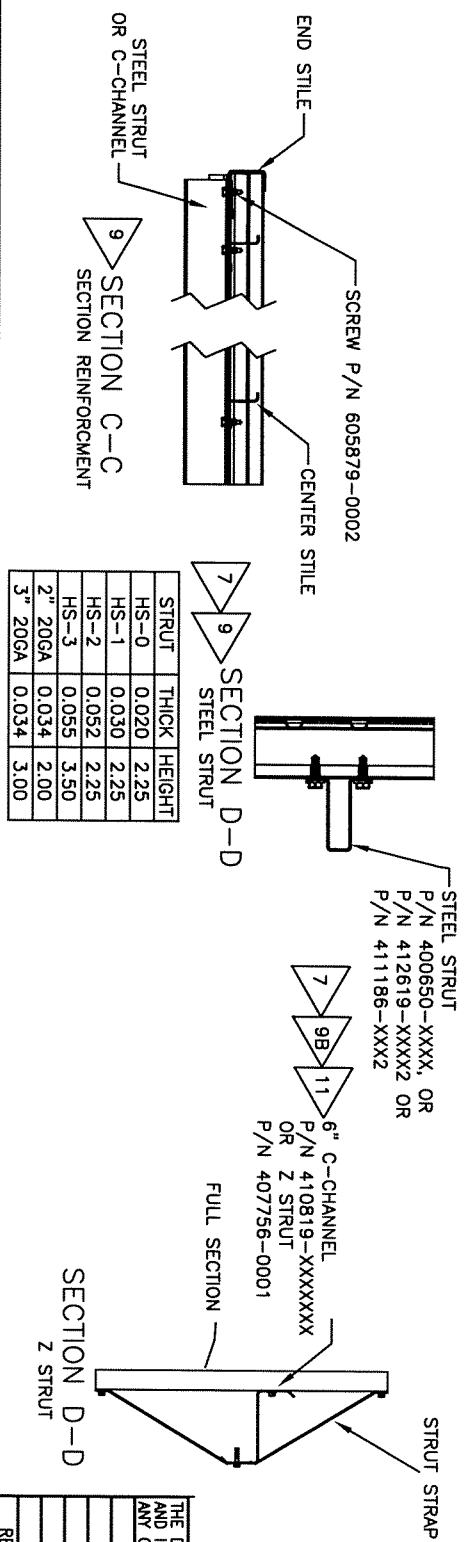
REVISIONS			
REV	DESCRIPTION	DATE	APPROV
32499	F	ADDED SECOND PAGE	10/6/20
32499	G	282" STRUT IS (1) NOT (2)	2/18/22
32933	H	ADDED 2 1/2" 20GA STRUTS	05/05/25
			M.D.M.

- THE 6" TALL 16GA. Z(407756--0001) OR (2) HS-3 MAY BE SUBSTITUTED FOR 6" 16GA (410819).
- 2" 20GA STEEL STRUTS (412619--XXXX2) MAY BE SUBSTITUTED FOR HS-1 (400650--0001).
- 3" 20GA STEEL STRUTS (411186--XXXX2) MAY BE SUBSTITUTED FOR HS-2 STRUTS (400650--0002).



DETAIL E
DOUBLE END STILE

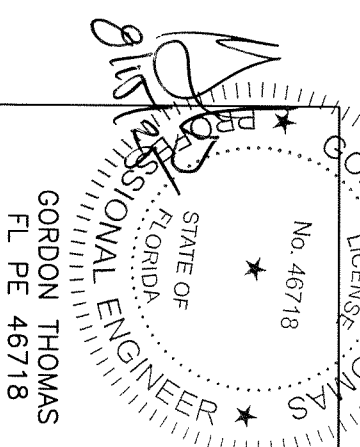
SIDE ELEVATION OF TYPICAL COMMERCIAL TRACK



STRUT	THICK	HEIGHT
HS-0	0.020	2.25
HS-1	0.030	2.25
HS-2	0.052	2.25
HS-3	0.055	3.50
2" 20GA	0.034	2.00
3" 20GA	0.034	3.00

INTERIOR DOOR ELEVATION

SERIES 416/418: 18/-18 PSF WINDLOAD									
DOOR WIDTH	End STILE Qty	Center STILE Qty	STRUT Type	Roller Type	Stem Dia.	Bracket Max Spacing	Vertical Gauge	JAMB Load (lb/ft)	HARDWARE
8'2"	Single 1	0	NONE	TR-3	2"	7/16"	24"	0.049"	74 Standard
10'2"	Single 2	0	NONE	TR-3	2"	7/16"	24"	0.049"	92 Standard
12'2"	Single 2	1	HS-1	TR-3	2"	7/16"	24"	0.049"	110 Standard
14'2"	Single 3	1	HS-1	TR-3	2"	7/16"	24"	0.049"	128 Standard
16'2"	Double 4	1	HS-2	TR-3	2"	7/16"	24"	0.049"	146 Standard
18'2"	Double 4	1	HS-3	TR-3	2"	7/16"	12"	0.068"	164 Standard
20'2"	Double 6	1	HS-3	TR-3	2"	7/16"	12"	0.068"	182 Standard
22'2"	Double 5	2	HS-3	TR-5	2"	7/16"	12"	0.068"	200 Standard
24'2"	Double 8	2	HS-3	TR-5	2"	7/16"	12"	0.068"	218 Standard
26'2"	Double 9	2	HS-3	TR-5	2"	7/16"	12"	0.068"	236 Standard
28'2"	Double 11	1	Z (6" 16GA)	TR-5	2"	7/16"	12"	0.068"	254 Standard
30'2"	Double 11	1	Z (6" 16GA)	TR-5	2"	7/16"	12"	0.068"	272 Standard



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FINISH	WHOLE NUMBERS:	± .25	UNIT OF MEASURE	N/A
WATERL.	± .03	± .010	EA	N/A
HOLES:	± .5"			

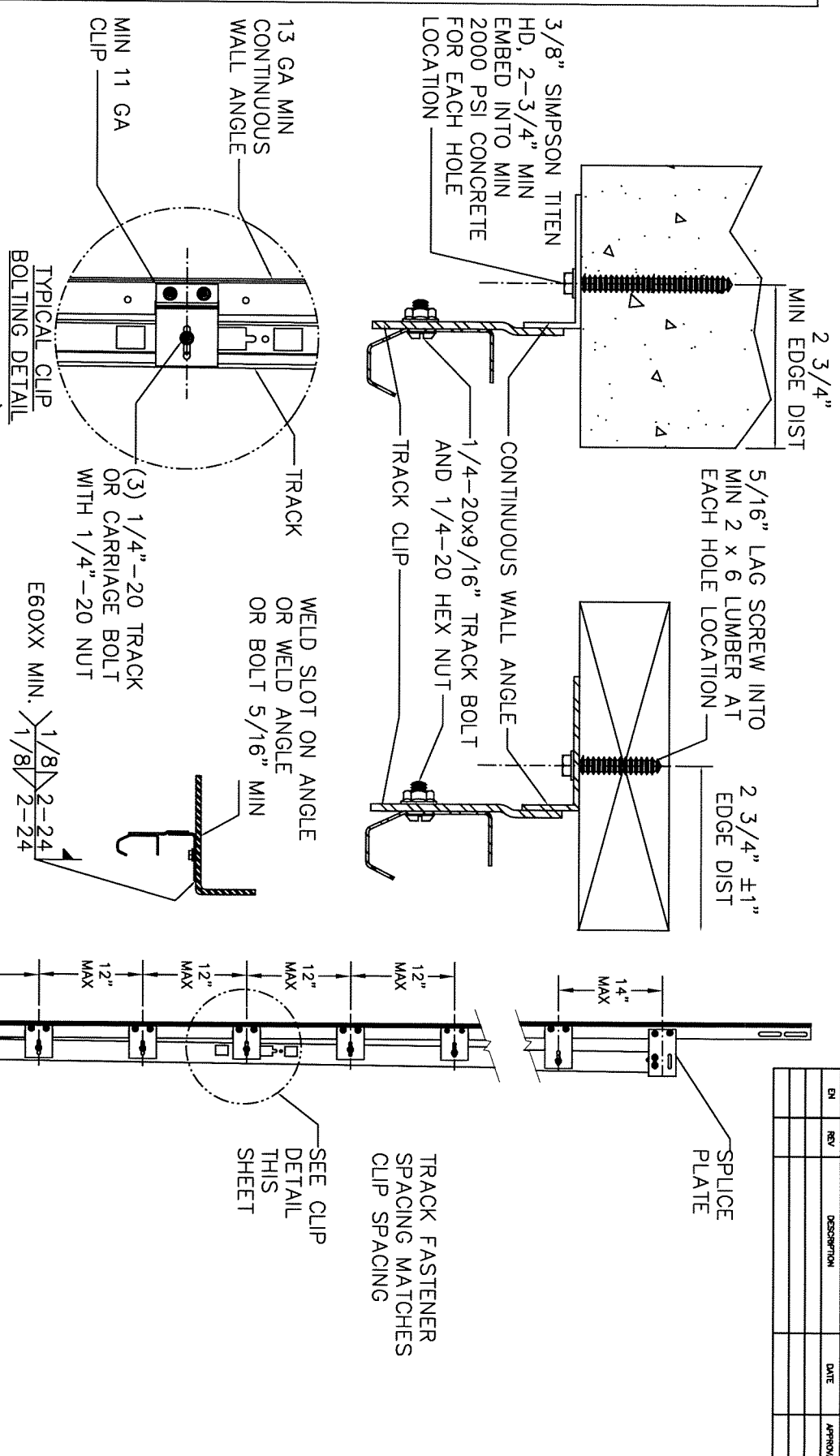
DATE	08/14/03
CHECKED BY:	C. DURAN
APPROVED BY:	T. CLARK
DATE	10/12/20
APPROVED BY:	L. KRUPKE

DRAWING TITLE: WINDLOAD, 416/418, 18/-18 PSF, 30'-2" MAX

DRAWING NUMBER: D-410153

SCALE: N/A

SHEET 1 OF 2



- | | | |
|---|---|---|
| 3/8" STEEL CON. HILTI
HD SCREW ANCHOR TO
MINIMUM 2000 PSI | 3/8" STEEL CON. HILTI
HD SCREW ANCHOR TO
MINIMUM 2000 PSI | 3/8" X 3" LONG
LAG SCREW ^{NOTE 3} |
|---|---|---|
- GORDON THOMAS
FL PE 46718

MAX SPACING OF ANCHORS/SCREWS PER JAMB (IN)		
3/8" SIMPSON TITEN HD SCREW ANCHOR TO MINIMUM 2000 PSI CONCRETE ^{NOTE 1}	3/8" SIMPSON TITEN HD SCREW ANCHOR TO MINIMUM 2000 PSI GROUT FILLED CMU ^{NOTE 2}	3/8" X 3" LONG LAG SCREW ^{NOTE 3}
24	16	24

[illegible]