NOTES:

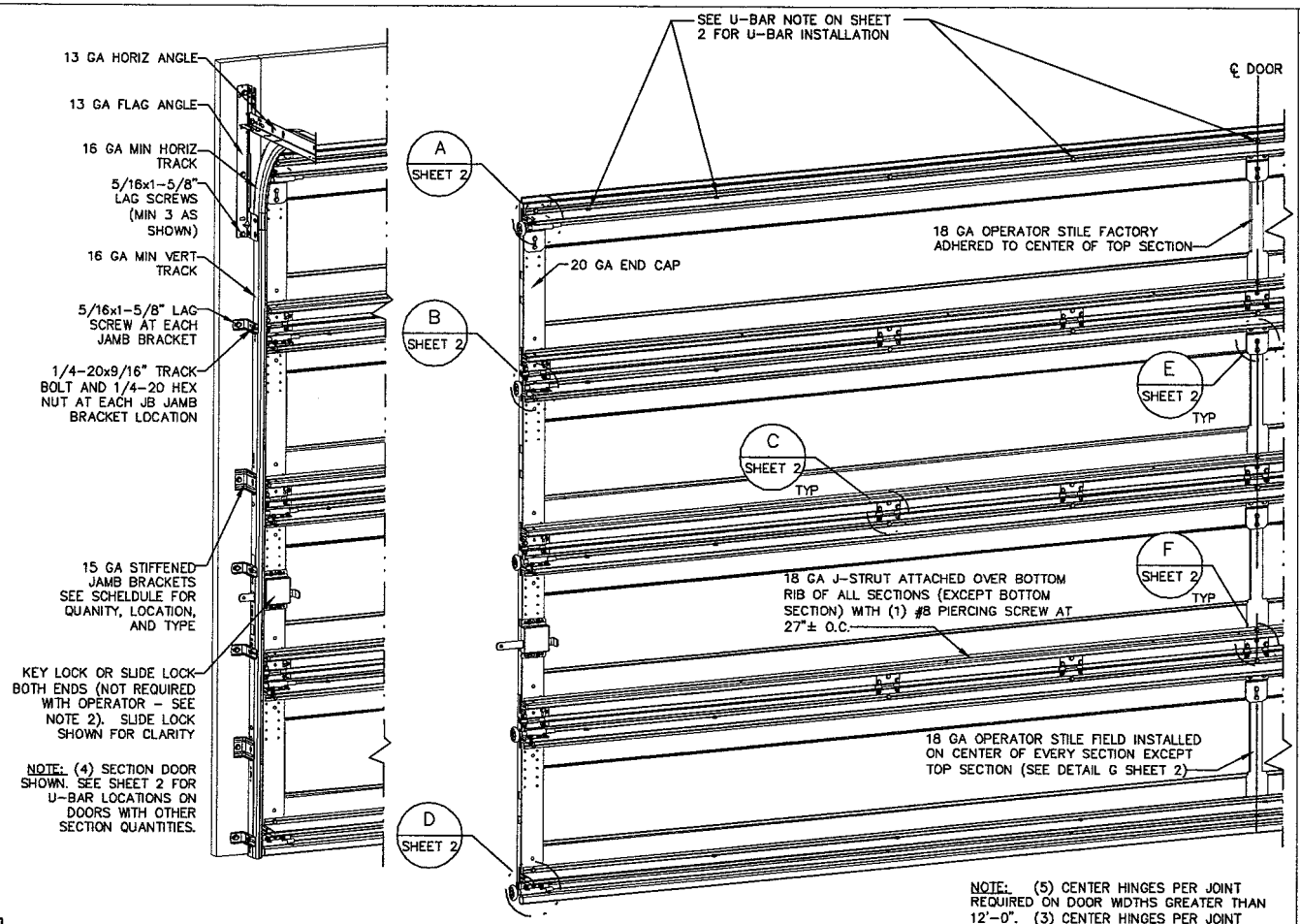
1. VINYL OR WOOD DOOR STOP NAILED A MAXIMUM OF 6" O.C. MUST OVERLAP TOP AND BOTH ENDS OF PANELS MINIMUM 7/16" TO MEET NEGATIVE PRESSURES.

2. KEY LOCK, SLIDE LOCKS, OR OPERATOR REQUIRED.

3. SECTION SHALL BE CONSTRUCTED WITH FOAMED IN PLACE POLYURETHANE FOAM INSULATION CHEMICALLY BONDED TO 30 GA MINIMUM FACER STEEL AND A POLYLAMINATE BACKER. END CAP TO HAVE A MINIMUM 1.1" DEPTH.

4. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

5. DOOR JAMB TO BE MINIMUM 2x6 STRUCTURAL GRADE LUMBER. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.



NOTE: (5) CENTER HINGES PER JOINT REQUIRED ON DOOR WIDTHS GREATER THAN 12'-0". (3) CENTER HINGES PER JOINT REQUIRED ON DOOR WIDTHS LESS THAN OR EQUAL TO 12'-0".

REVISIONS

P3 NEW DESIGN
GRT 7/30/08

P4 ADDED HIGH LIFT AND ROOF PITCH TRACK NOTE.
GRT 3/2/09

P5 UPDATED TITLE BLOCK
GRT 8/26/10

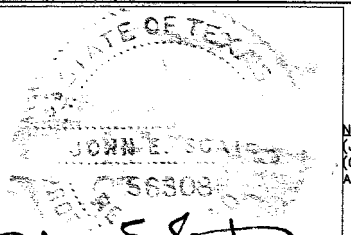
SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE

MAX DOOR WIDTH	DOOR HEIGHT	UNIFORM LOAD EACH JAMB (PLF)
16'-0"	ALL	+240.0/-268.0
14'-0"	ALL	+210.0/-234.5
12'-0"	ALL	+180.0/-201.0
10'-0"	ALL	+150.0/-167.5

JAMB BRACKET SCHEDULE

DOOR HEIGHT	NO. OF SECTIONS	NO. OF JAMB BRACKETS (EACH JAMB)	TRACK TYPE	LOCATION OF CENTERLINE OF JAMB BRACKETS MEASURED FROM BOTTOM OF TRACK (ALL DIMENSIONS ± 2")
7'-0"	4	6	QI	2" (JB), 13" (QI), 25-1/2" (JB), 34" (JB), 45-1/4" (QI), 63" (JB)
7'-0"	4	6	FAT	2" (JB), 10" (JB), 21-3/4" (JB), 29-3/4" (JB), 42" (JB), 63-1/4" (JB)
8'-0"	5	8	QI	2" (JB), 13" (QI), 23" (JB), 34" (JB), 47-1/4" (QI), 58" (JB), 67" (QI), 75" (JB)
8'-0"	5	8	FAT	2" (JB), 10" (JB), 21-3/4" (JB), 29-3/4" (JB), 48" (JB), 57-1/4" (JB), 66" (JB), 75-1/2" (JB)
> 8'-0"/HIGH LIFT/ROOF PITCH				SEE NOTE BELOW

NOTE:
(JB) FOLLOWING DIMENSION DENOTES SLOTTED JAMB BRACKET ATTACHED TO TRACK WITH 1/4-20x9/16" TRACK BOLT AND NUT.
(QI) FOLLOWING DIMENSION DENOTES QUICK INSTALL JAMB BRACKET INSTALLED IN BUTTERFLY SLOT. NO ADDITIONAL HARDWARE NEEDED TO ATTACH TO TRACK.
ALL DOORS WITH HIGH LIFT, ROOF PITCH, AND/OR GREATER THAN 8' IN HEIGHT REQUIRE USE OF CONTINUOUS WALL ANGLE. SEE SUPPLEMENT TRACK CHART FOR DETAILS.



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STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A
DESIGN (PSF):	+30.00/-33.50	MAX WIDTH:	16'-0"		DATE	NAME
TEST (PSF):	+45.00/-50.25	MAX HEIGHT:	8'-9"	DRAWN	7/30/08	GRT
IMPACT/CYCLIC RATED (YES/NO):	YES	MAX SECTION HEIGHT:	21"	CHECKED	8/06/08	MRB

MODEL 5120/6100/9100

SHEET 1 OF 2

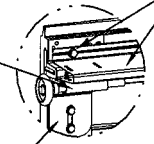
WINDLOAD SPECIFICATION OPTION CODE 0231

DRAWING PART NO. 318996

REV. P5

13 GA ADJUSTABLE TOP FIXTURE ATTACHED TO PRE-PUNCHED HOLES IN BOTTOM OF U-BAR WITH (2) 1/4-14x5/8" CRIMPTITE SCREWS

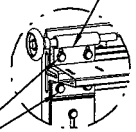
11 GA REINFORCEMENT BRACKET ATTACHED WITH (4) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS (2 THRU BOTH BRACKET AND U-BAR)



DETAIL A

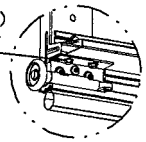
PLACE U-BAR OVER INTEGRAL RIB WITH THE (8) PRE-PUNCHED HOLES EACH END FACING UPWARD AND ATTACH THRU END CAP AT EACH END WITH (3) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS FOR STANDARD TRACK (2 OF WHICH ARE USED TO ATTACH THE REINFORCEMENT BRACKET) AND (4) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS FOR LOW HEADROOM TRACK (2 OF WHICH ARE USED TO ATTACH THE TOP BRACKET AND 2 OF WHICH ARE USED TO ATTACH THE REINFORCEMENT BRACKET AS SHOWN).

13 GA ADJUSTABLE TOP FIXTURE



LOW HEADROOM TRACK
DETAIL A

ATTACH BOTTOM BRACKET TO BOTTOM U-BAR WITH (2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS

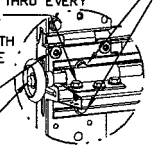


IMPACT BOTTOM BRACKET

ATTACH 13 GA ROLLER SLIDE THRU PRE-PUNCHED HOLES IN TOP OF U-BAR WITH (2) 1/4-14x5/8" CRIMPTITE SCREWS WHILE USING VIEWING HOLE IN SLIDE TO ENSURE PROPER ALIGNMENT. THEN ADD (1) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREW THRU EVERY VIEWING HOLE INTO U-BAR.

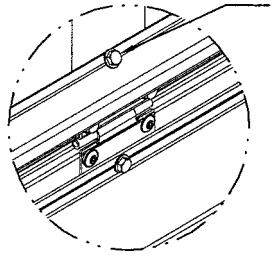
15 GA HINGE ATTACHED WITH (4) 1/4-14x5/8" CRIMPTITE SCREWS (2 OF WHICH ARE FACTORY ATTACHED)

2" NYLON STORMGARD ROLLER WITH 4-1/2" STEM



DETAIL B

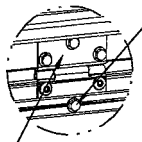
PLACE U-BAR OVER INTEGRAL RIB WITH THE (8) PRE-PUNCHED HOLES EACH END FACING UPWARD AND ATTACH THRU END CAP AT EACH END WITH (2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS
EXCEPTION: U-BAR PLACED OVER TOP RIB ON THE BOTTOM SECTION SHALL ONLY BE ATTACHED THRU END CAP AT EACH END WITH (1) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREW LOCATED ON THE BOTTOM FLANGE OF THE U-BAR
NOTE: DUE TO CLEARANCES REQUIRED TO INSTALL SCREWS AT THE ENDS OF THE U-BARS, ALL U-BARS SHALL BE INSTALLED ON SECTIONS PRIOR TO INSTALLING ROLLER SLIDES AND TOP FIXTURE ON THE U-BARS. SEE ATTACHMENT NOTES ON THIS SHEET.



(1) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREW AT CENTER LINE OF DOOR THRU J-STRUT & OPERATOR BRACKET.

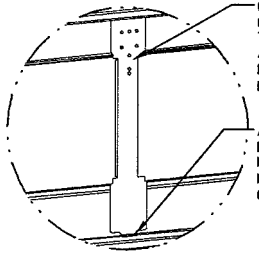
DETAIL F

18 GA HINGE ATTACHED WITH (6) 1/4-20x5/8" CRIMPTITE SCREWS (2 OF WHICH ARE FACTORY ATTACHED, 3 OF WHICH ARE FIELD INSTALLED INTO TOP LEAF, AND 1 OF WHICH IS FIELD INSTALLED THRU PRE-PUNCHED HOLE IN U-BAR). TOP HINGE LEAF SHALL HAVE 0.75"x2.5" VHB OR EQUAL DOUBLE SIDED TAPE APPLIED TO BACK OF LEAF (BETWEEN HINGE AND DOOR) PRIOR TO INSTALLING FASTENERS.



DETAIL C

PLACE U-BAR OVER INTEGRAL RIB AND ATTACH WITH (2) 1/4-20x5/8" CRIMPTITE SCREWS THRU PRE-PUNCHED HOLES AT EACH INTERMEDIATE HINGE LOCATION (1 THRU FLANGE OF U-BAR AND BOTTOM HINGE LEAF AND 1 THRU WEB OF U-BAR AND INTEGRAL RIB OF SECTION)



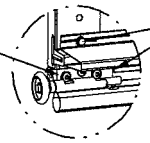
OPERATOR STILE ATTACHED WITH (2) 0.75"x2.5" VHB OR EQUAL DOUBLE SIDED TAPE APPLIED TO BACK OF THE TOP AND BOTTOM OF THE OPERATOR BRACKET (BETWEEN BRACKET AND DOOR) PRIOR TO INSTALLING FASTENERS.

ATTACH OPERATOR STILE WITH (4) #8 PIERCING SCREWS INTO INTEGRAL RIB ((2) INTO THE TOP OF THE BRACKET AND INTEGRAL RIB AND (2) INTO THE BOTTOM OF THE BRACKET AND INTEGRAL RIB).

DETAIL G

12 GA BOTTOM BRACKET FACTORY ATTACHED WITH (3) 1/4-14x5/8" CRIMPTITE SCREWS

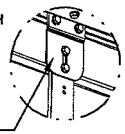
FOR IMPACT RESISTANCE, BOTTOM BRACKET MUST BE SCREWED TO THE BOTTOM U-BAR WITH (2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS. SEE IMPACT BOTTOM BRACKET DETAIL THIS SHEET.



DETAIL D

PLACE U-BAR OVER INTEGRAL RIB WITH NOTCH DOWN TO CLEAR BOTTOM BRACKET AND ATTACH THRU END CAP AT EACH END WITH (1) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREW AS SHOWN AND USE (1) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREW ACROSS THE BOTTOM OF THE BOTTOM U-BAR AT EACH PRE-PUNCHED HOLE AT EVERY HINGE LOCATION. USE (1) 1/4-20x5/8" CRIMPTITE SCREW AT ALL OTHER PRE-PUNCHED HOLE LOCATIONS.

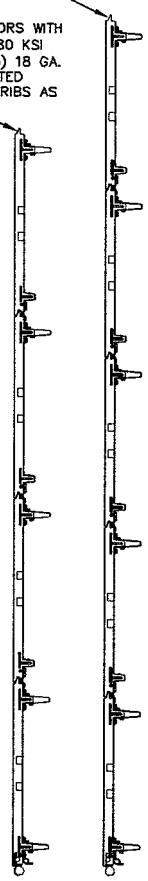
11 GA REINFORCEMENT BRACKET ATTACHED WITH (4) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS (2 THROUGH BOTH BRACKET AND U-BAR AND 2 THROUGH BOTH BRACKET AND OPERATOR STILE)



DETAIL E

(5) SECTION DOORS WITH (6) 3", 18 GA, 80 KSI U-BARS AND (4) 18 GA. J-STRUTS LOCATED OVER INTEGRAL RIBS AS SHOWN

(4) SECTION DOORS WITH (5) 3", 18 GA, 80 KSI U-BARS AND (3) 18 GA. J-STRUTS LOCATED OVER INTEGRAL RIBS AS SHOWN



U-BAR ATTACHMENT NOTES

1. ALL U-BARS SHALL BE PLACED OVER INTEGRAL RIBS AND ATTACHED THRU PRE-PUNCHED HOLES WITH (2) 1/4-14x5/8" CRIMPTITE SCREWS AT EACH INTERMEDIATE HINGE LOCATION, (2) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS AT EACH END CAP (EXCEPT BOTH U-BARS ON BOTTOM SECTION – SEE DETAIL B AND D THIS SHEET), (2) 1/4-14x5/8" CRIMPTITE SCREWS APPROXIMATELY MIDWAY BETWEEN END OF DOOR AND INTERMEDIATE HINGE LOCATION, AND (1) 1/4-14x5/8" CRIMPTITE SCREW APPROXIMATELY 8" FROM EACH END. FOR DOOR WIDTHS GREATER THAN 12'-0", THERE SHALL BE A TOTAL OF (20) SCREWS ATTACHING EACH U-BAR EXCEPT BOTH U-BARS ON BOTTOM SECTION SHALL HAVE A TOTAL OF (18) SCREWS EACH. FOR DOOR WIDTHS LESS THAN OR EQUAL TO 12'-0", THERE SHALL BE A TOTAL OF (16) SCREWS ATTACHING EACH U-BAR EXCEPT BOTH U-BARS ON BOTTOM SECTION SHALL HAVE A TOTAL OF (14) SCREWS EACH.

2. WITH THE EXCEPTION OF THE (8) PRE-PUNCHED HOLES IN THE TOP OF EACH END USED FOR ATTACHMENT OF THE ROLLER SLIDES AND THE (6) PRE-PUNCHED HOLES IN THE BOTTOM OF EACH END USED FOR THE ATTACHMENT OF THE TOP FIXTURE AND UNLESS NOTED OTHERWISE ON THIS SPECIFICATION DRAWING, ALL PRE-PUNCHED HOLES IN ALL U-BARS SHALL BE ATTACHED TO THE DOOR WITH 1/4-14x5/8" CRIMPTITE SCREWS.

3. 18 GA U-BARS SHALL BE STAMPED "46" APPROXIMATELY 8" FROM EACH END.

REVISIONS

P3 NEW DESIGN
GRT 7/30/08

P4 ADDED HIGH LIFT AND ROOF PITCH TRACK NOTE.
GRT 3/2/09

P5 UPDATED TITLE BLOCK
GRT 8/26/10

STATE OF TEXAS
JOHN E. SCATES

John E Scates 9/2/10

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STATIC PRESSURE RATINGS		APPROVED SIZES		SCALE: N.T.S.		SIZE: A
DESIGN (PSF):	+30.00/-33.50	MAX WIDTH:	16'-0"		DATE	NAME
TEST (PSF):	+45.00/-50.25	MAX HEIGHT:	8'-9"	DRAWN	7/30/08	GRT
IMPACT/CYCLIC RATED (YES/NO):	YES	MAX SECTION HEIGHT:	21"	CHECKED	8/06/08	MRB

MODEL 5120/6100/9100

SHEET 2 OF 2

WINDLOAD SPECIFICATION OPTION CODE 0231

DRAWING PART NO. 318996

REV. P5