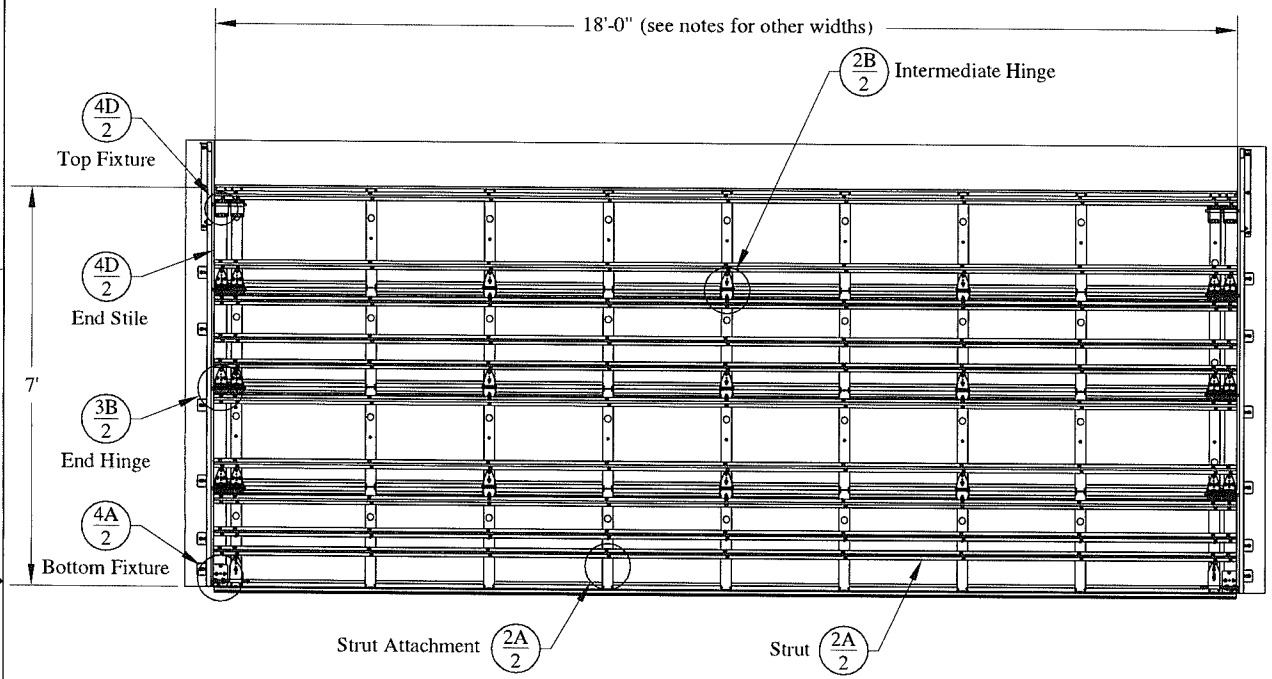
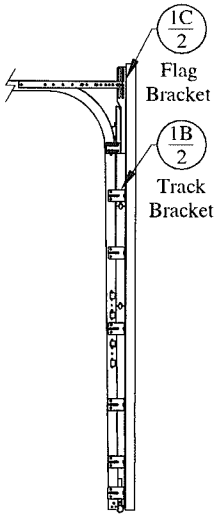
Digitally signed by John E. Scates, P.E.
Date: 2015.03.07 13:54:41 -06'00'





Door Height	Section Quantity	Strut Quantity	Trk Brkt Per Side
6'-6" to 7'-0"	4	10	6
7'-6" to 8'-0"	5	12	7
8'-3" to 8'-9"	5	13	8
9'-0" to 10'-6"	6	15	10
10'-9" to 12'-3"	7	18	12
12'-6" to 14'-0"	8	20	14
14'-3" to 15'-9"	9	23	17
16'-0" to 17'-6"	10	25	19
17'-9" to 19'-3"	11	28	20
19'-6" to 20'-0"	12	30	21

Track bracket quantities shown are for use with grade 2 or better southern pine jambs. When using softer wood species like spruce-pine-fir (SPF) use the quantity of track brackets specified in the chart plus three track brackets per side.

Supplemental Instructions contain details for doors up to 20'-0" high. These are required in addition to this drawing for installation. Always use supplemental instructions in addition to this drawing during door installation.

This door has been evaluated in accordance with ASTM E330-02 and ANSI/DASMA 108-02, 108-05 and for windborne debris in accordance with ASTM E1886-05/E1996-09 and ANSI/DASMA 115-05 (9 pound missile)
Supporting structural elements to be designed by registered professional engineer for specified wind loads.
If door is not electrically operated, a lock must be installed.
Maximum door height: 20'-0" Maximum section height: 21"
This door has been evaluated per ASCE 7-02 & 7-05 as referenced by 2006 IBC 1609 & 2006 IRC 301, Design Pressures (DP) typically meet requirements for the following exposure B wind speeds. These wind speeds are for 7' high doors on buildings with mean roof height less than 30 feet.

Width	Design Pressure	Exposure "B"	Center Stiles
18'-00"	+ 38.1 (psf) / - 42.5 (psf)	159 (mph)	7
17'-00"	+ 42.7 (psf) / - 47.6 (psf)	168 (mph)	7
16'-08"	+ 44.0 (psf) / - 49.0 (psf)	170 (mph)	7
16'-00"	+ 44.0 (psf) / - 49.0 (psf)	170 (mph)	7
15'-04"	+ 44.0 (psf) / - 49.0 (psf)	170 (mph)	6

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STATE OF TEXAS
JOHN E. SCATES
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Professional Engineer's seal provided only for verification of windload construction details

C.H.I. OVERHEAD DOORS
SCALE nts
DATE 3-6-2015

Models: 2240, 2241, 2250, 2251, 4240, 4241, 4250, 4251, 5240, 5241, 5250, 5251

18'-0" wide, 159 mph Exposure "B"
See notes for other widths and wind speeds

C.H.I. Drawing: TZ8i-18-01513
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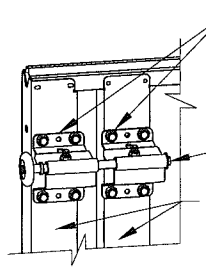
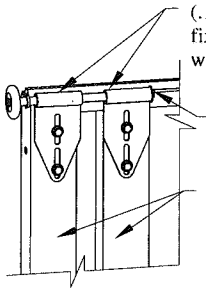
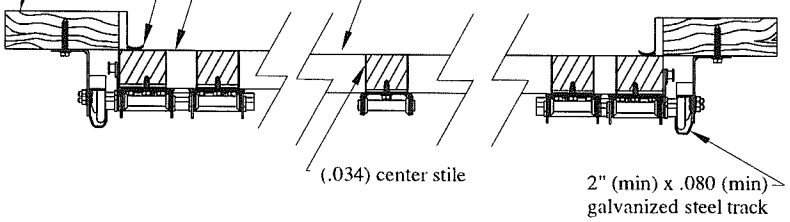
Strut (if applicable) not shown for clarity.

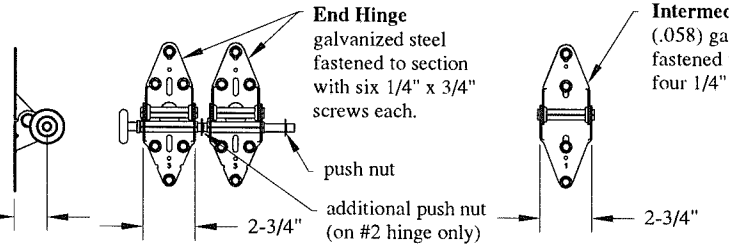


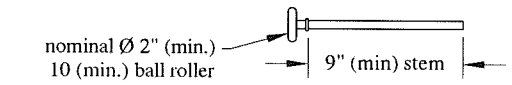


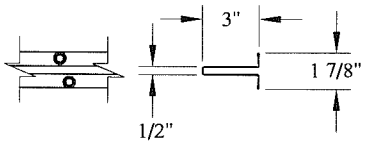
Optional low head room top bracket

The vertical wood jamb fasteners may be counter sunk to provide a flat mounting surface. See jamb attachment details for more information about attaching jambs to structure.



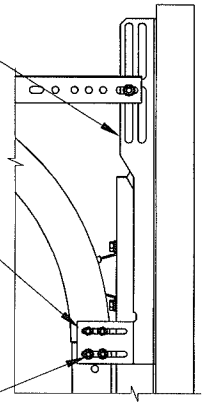


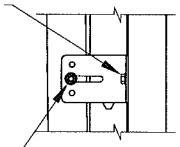


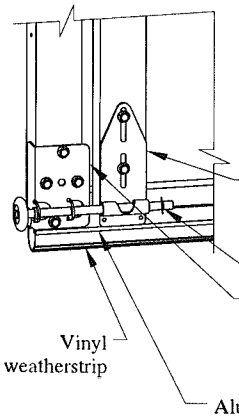


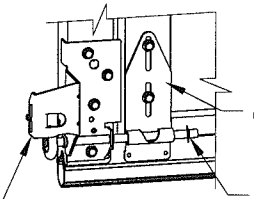
(.051) 50 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile or hinge plate.

Details on some views may have been omitted for clarity.









Optional low head room bottom bracket

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