



PRELIMINARY  
NOT FOR CONSTRUCTION

MAXIMUM FACTORED REACTIONS	
COMPRESSION	= 743.9 KIPS
TENSION	= 639.6 KIPS
TOTAL SHEAR	= 102.6 KIPS
O.T.M.	= 13,039.9 FT-KIPS

FLANGE ACCEPTS  
(16) ANCHOR BOLTS (48 TOTAL)  
1" DIA. ASTM A325

60 FEET ABOVE SEA LEVEL

**TOWER DESIGN LOADING**

DESIGN WIND LOAD PER ANSI/TIA-222-G:  
 BASIC WIND SPEED (NO ICE) = 120 MPH  
 BASIC WIND SPEED (ICE) = 40 MPH  
 DESIGN ICE THICKNESS = 0.5 IN.  
 STRUCTURE CLASS = II  
 EXPOSURE CATEGORY = D  
 TOPOGRAPHIC CATEGORY = 1  
 ELEVATION ABOVE SEA LEVEL = 60 FEET

THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT)	ANTENNA TYPE	LINE SIZE (NOM)
292	BEACON & LR	(1) 3/4"
285	(3)MET INSTR. + 8' S.A. WITH 2 T.B.	(2) 7/8"
285	(2)MET INSTR. + 8' S.A. WITH 2 T.B.	(2) 7/8"
200	(3)MET INSTR. + 8' S.A. WITH 2 T.B.	(2) 7/8"
200	(2)MET INSTR. + 8' S.A. WITH 2 T.B.	(2) 7/8"
170	SIDE LIGHT	-
115	(3)MET INSTR. + 8' S.A. WITH 2 T.B.	(2) 7/8"
115	(2)MET INSTR. + 8' S.A. WITH 2 T.B.	(2) 7/8"
30	(3)MET INSTR. + 8' S.A. WITH 2 T.B.	(2) 7/8"
30	(2)MET INSTR. + 8' S.A. WITH 2 T.B.	(2) 7/8"

**TOWER ATTACHMENT TO PLATFORM TO BE BY OTHERS.**

**SECTION MAIN MEMBER SCHEDULE**

SECTION	LEG	DIAGONAL	HORIZONTALS
6NSTB	PIPE 2.875x0.203	L1 3/4x1 3/4x3/16 (3)	L1 3/4x1 3/4x3/16 (1)
6NST	PIPE 2.875x0.203	L1 3/4x1 3/4x3/16 (5)	N/A
6NST	PIPE 3.500x0.300	L1 3/4x1 3/4x3/16 (5)	N/A
6NST	PIPE 4.500x0.337	L2x2x3/16 (5)	N/A
7N	PIPE 5.563x0.375	L1 3/4x1 3/4x3/16 (5)	L1 3/4x1 3/4x3/16 (1)
8N	PIPE 5.563x0.375	L1 3/4x1 3/4x3/16 (4)	N/A
9N	PIPE 5.563x0.375	L2x2x1/4 (3)	N/A
10N	PIPE 6.625x0.432	L2 1/2x2 1/2x3/16 (3)	N/A
11N	PIPE 6.625x0.432	L3x3x3/16 (3)	N/A
12N	PIPE 8.625x0.500	L3 1/2x3 1/2x1/4 (1)	N/A
13N	PIPE 8.625x0.500	L4x4x1/4 (1)	N/A
14N	PIPE 8.625x0.500	L4x4x1/4 (1)	N/A
15KS	PIPE 8.625x0.500	PIPE 3.500x0.300 (2)	PIPE 3.500x0.300 (2)
16KS	PIPE 10.750x0.500	PIPE 4.000x0.318 (2)	PIPE 4.000x0.318 (2)
17KS	PIPE 12.750x0.500	PIPE 4.000x0.318 (3)	PIPE 4.000x0.318 (3)

NOTE: SECTION NUMBERS ARE FOR REFERENCE ONLY. FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.  
 THE NUMBERS SHOWN IN PARENTHESES INDICATE THE NUMBER OF BAYS FROM TOP TO BOTTOM.

FILE NO. Q15-10922-2

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP



PO BOX 5999  
 PEORIA, IL 61601-5999  
 TOLL FREE 800-727-ROHN

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

**UNITED STATES TOWER SERVICES LTD**  
 DESIGN PROFILE  
 290 FT SSMW  
 OSW FARM

DWN: SS    CHK'D:    DATE: Nov/03/15

ENG'R:    SHEET #:    PRJ. MANG'R:

PRJ. ENG'R: OH    REV: 0

DRAWING NO: Q15-10922-2 PROFILE

Nov 03, 2015 @ 03:15 PM