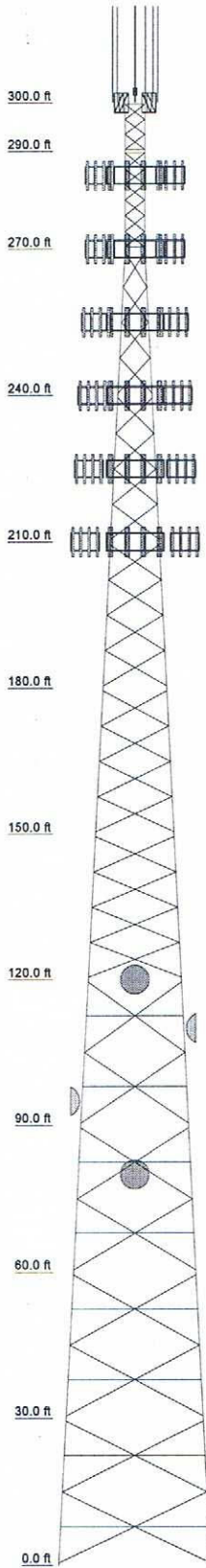


Section	L1	L2	T1	T2	T3	T4	T5	T6	T7	T8	T9	
Legs	SR 2	SR 2	SR 3/4	SR 4 1/4	SR 4 3/4	SR 5 1/4	SR 5 1/2	SR 5 3/4	SR 6	SR 6 1/4	SR 6 1/2	
Leg Grade	A572-50	A572-50	L3x3x3/16	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L4x4x1/4	L4x4x5/16	L5x5x5/16	2L3-1/2x3-1/2x1/4x1/2	2L4x4x1/4x1/2	L5x5x2/8	
Diagonals	SR 7/8	SR 7/8					A36	N.A.				
Top Girts	A572-50	A572-50										
Bottom Girts	SR 3/4	SR 3/4										
Sec. Horizontals												
Face Width (ft)	4	4	4	7	10	13	16	19	22	25	28	31
# Panels @ (ft)	6 @ 3.20833	6 @ 3.20833			20 @ 7.25				8 @ 14.5			
Weight (K)	1.1	1.1	4.5	6.3	7.0	8.8	11.6	12.6	14.7	16.7	18.3	104.0



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
up to 20' lightning rod	310	(3) 13' gate mounts	285
DB810 (1 5/8" Coax)	310	(18) 6' x 4' Panels ((18) 1 5/8" Coax)	270
DB810 (1 5/8" Coax)	310	(3) 13' gate mounts	270
DB810 (1 5/8" Coax)	310	(18) 6' x 4' Panels ((18) 1 5/8" Coax)	255
DB810 (1 5/8" Coax)	310	(3) 13' gate mounts	255
DB810 (1 5/8" Coax)	310	(18) 6' x 4' Panels ((18) 1 5/8" Coax)	240
DB810 (1 5/8" Coax)	310	(3) 13' gate mounts	240
beacon lighting (opt.)	301.5	(18) 6' x 4' Panels ((18) 1 5/8" Coax)	225
3' sidearms	300	(3) 13' gate mounts	225
3' sidearms	300	(18) 6' x 4' Panels ((18) 1 5/8" Coax)	210
3' sidearms	300	(3) 13' gate mounts	210
3' sidearms	300	6' std dish (1 1/4" Coax)	120
3' sidearms	300	6' std dish (1 1/4" Coax)	110
3' sidearms	300	6' std dish (1 1/4" Coax)	95
(18) 6' x 4' Panels ((18) 1 5/8" Coax)	285	6' std dish (1 1/4" Coax)	80

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	SR 1 3/4	B	3 @ 3.08333

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi
A572-58	58 ksi	73 ksi			

TOWER DESIGN NOTES

1. Tower is located in ~~Elkhart County, Indiana~~
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Tower designed for step bolts on all three legs.
9. Tower designed for feedlines to be mounted in two rows on Clip-On Waveguide ladder(s) per feedline distribution drawing. Actual feed line placement may vary.
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. ** Preliminary Design - Not For Construction **
15. Final design may incorporate structural changes to improve performance, efficiency, and keep pace with changing industry standards, provided any such changes will not adversely affect the ability to use the product as intended.

ALL REACTIVE Tower structure to be fabricated in accordance with ***Tower Innovations Quality Policy ARE FACTORED Manual***.

17. TOWER RATING: 97.9%

MAX. CORNER REACTIONS AT BASE:

DOWN: 1249 K

UPLIFT: -1105 K

SHEAR: 108 K

