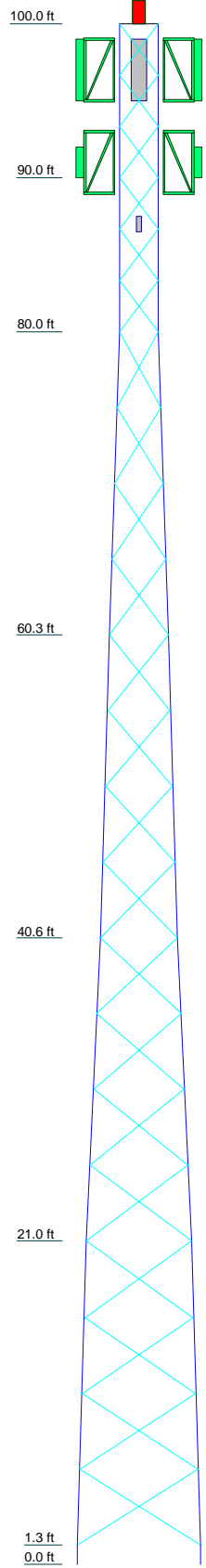


Section	T1	T2	T3	T4	T5	T6	T7
Legs			P2.5x203		P3x216	P3.5x226	A
Leg Grade				A500-50			B
Diagonals				L1 1/2x1 1/2x3/16		L1 3/4x1 3/4x3/16	B
Diagonal Grade				A36			B
Top Girts							B
Face Width (ft)		2.5			5	6.75	8
# Panels @ (ft)			6 @ 3.33333		16 @ 4.92		C
Weight (lb)	298.1	283.9	561.3	589.9	731.0	981.4	3453.1576



### DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Flash Beacon Lighting	100	SCADA ANTENNAS	92 - 90
SCADA ANTENNAS	99 - 95	BM-0303	92 - 90
BM-0303	99 - 95	SCADA ANTENNAS	92 - 90
SCADA ANTENNAS	99 - 95	BM-0303	92 - 90
BM-0303	99 - 95	5200AP	88 - 86
SCADA ANTENNAS	99 - 95	BM-0303	88 - 86
BM-0303	99 - 95		

### SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	P4x.337	C	1 @ 1.28
B	N.A.		

### MATERIAL STRENGTH

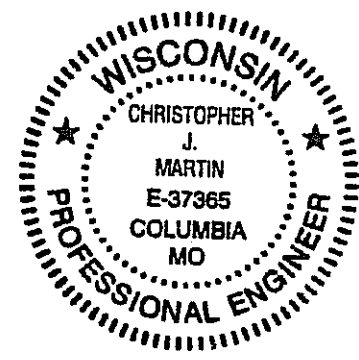
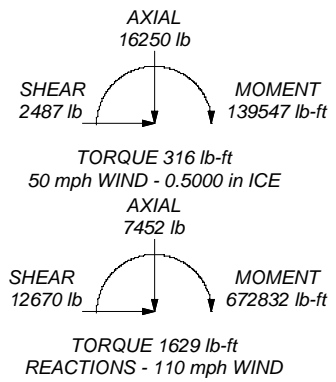
GRADE	Fy	Fu	GRADE	Fy	Fu
A500-50	50 ksi	62 ksi	A36	36 ksi	58 ksi

### TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-G Standard.
2. Tower designed for a 110 mph basic wind in accordance with the TIA-222-G Standard.
3. Tower is also designed for a 50 mph basic wind with 0.50 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Structure Class II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Locking washers provided for all brace bolted connections. Connection bolts meet A325X structural joint specification. All X-braces are center bolted.
8. All members hot dipped galvanized after fabrication per ASTM A123. Hardware (Bolts, Nuts, Etc.) galvanized per ASTM B695 Class 50 (Mechanical).
9. All welded joints and connections welded in accordance per AWS D1:1:2008 and specified GlenMartin Weld Procedures (WP).
10. Standard base riser located at each leg footing shall be provided in accordance with GlenMartin design requirements.
11. TOWER RATING: 97.8%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:  
 DOWN: 99157 lb  
 UPLIFT: -95032 lb  
 SHEAR: 6855 lb



**REVIEWED**  
 By Christopher J. Martin, P.E. at 11:44 am, Oct 12, 2010

<b>GLENMARTIN</b> 13620 Old Hwy 40 Boonville, MO 65233 Phone: (800) 486-1223 FAX: (660) 882-7200	Job: <b>Site Name: Parkland Sanitary Force Main</b> Project: <b>SO#:21570 Douglas County Wisconsin</b> Client: TWIN CITIES INDUSTRIAL CONTROL Code: TIA-222-G Path: \\Dell677941nas\engineering\Projects\SST\PROJECT_21570\Design\100R-SST-110mph-G.ari	Drawn by: cjmartin Date: 10/12/10 Scale: NTS App'd: Dwg No. E-1
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