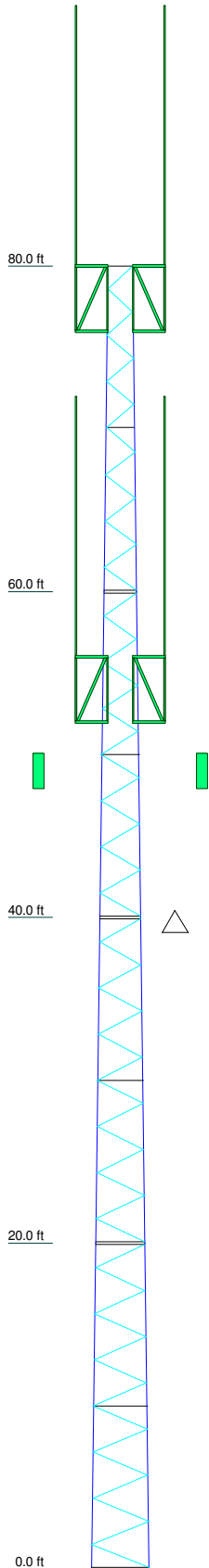


Section	T4	T3	T2	T1
Legs	SR 1 1/2		SR 1 1/4	
Leg Grade		A572-50		
Diagonals	SR 3/4		SR 5/8	
Diagonal Grade		A572-50		
Top Girts	SR 3/4		SR 5/8	
Mid Girts	SR 3/4		SR 5/8	
Bottom Girts	SR 3/4		SR 5/8	
Face Width (ft)	3.5	2.5	2	1.5
# Panels @ (ft)		42 @ 1.41667	14 @ 1.42262	
Weight (lb)	628.7	593.4	388.3	305.9



### DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
DB812KE-Y	80 - 78	DB812KE-Y	66 - 58
DB812KE-Y	80 - 78	(2) SEC-55V-90-16	50 - 48
DB812KE-Y	66 - 58		

### MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

### TOWER DESIGN NOTES

1. Tower is located in Silver Bow County, Montana.
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. 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. Weld together tower sections have flange connections.
8. Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
9. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
10. Welds are fabricated with ER-70S-6 electrodes.

<b>Great Plains Towers</b>		Job: <b>GPT 80 ft (42" Tapered to 18")</b>	
126 6th Street West		Project: <b>GPT 80' Self Support</b>	
West Fargo, ND 58078		Client: BNSF	Drawn by: Lance Straabe
Phone: (701) 282-2236		Code: TIA-222-G	Date: 09/22/10
FAX: (701) 282-2148		App'd: _____	
		Scale: NTS	
		Path: C:\Documents and Settings\Lance\Desktop\GPT 80' SS Light (K) BNSF.er	
		Dwg No. E-1	