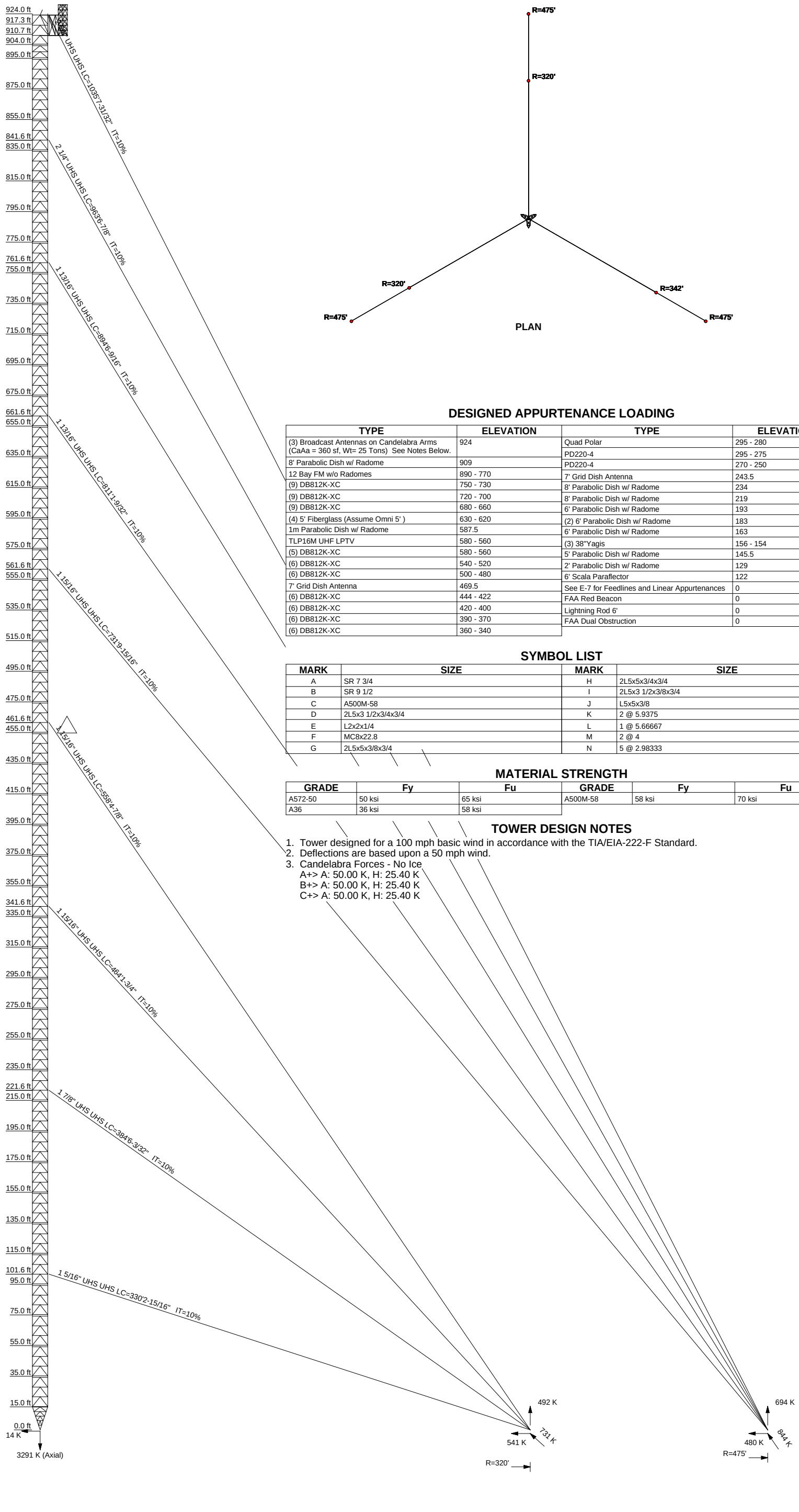
Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20	T21	T22	T23	T24	T25	T26	T27	T28	T29	T30	T31	T32	T33	T34	T35	T36	T37	T38	T39	T40	T41	T42	T43	T44	T45	T46	T47	T48	T49
Legs	SR 6																																																A
Leg Grade	A572-50																																																C
Diagonals				D																																													E
Diagonal Grade																																																	
Top Girts	F	G	F	G	2L3x3x3/8x3/4		G	2L3x3x3/8x3/4			G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				H
Bottom Girts	N.A.			G	2L3x3x3/8x3/4		G	2L3x3x3/8x3/4			G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				N.A.
Horizontals	N.A.			I	2L3x3x3/8x3/4		G	2L3x3x3/8x3/4			G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				G	2L3x3x3/8x3/4				J
Face Width (ft)	10																																																
# Panels @ (ft)	K			L																																													N
Weight (K)	49.9	5.0	5.6	8.2	10.4	10.4	11.6	10.4	10.4	10.4	11.6	10.4	10.4	10.4	10.4	11.6	10.4	10.4	10.4	10.9	12.1	10.9	10.9	10.9	10.9	12.1	10.9	10.9	10.9	10.9	10.9	12.6	11.4	11.4	11.4	12.5	12.5	13.7	12.5	12.5	12.5	12.5	12.5	13.7	12.5	12.5	12.5	14.3	14.5

589.8



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(3) Broadcast Antennas on Candelabra Arms (CaAa = 360 sf, Wt= 25 Tons) See Notes Below.	924	Quad Polar	295 - 280
8' Parabolic Dish w/ Radome	909	PD220-4	295 - 275
12 Bay FM w/o Radomes	890 - 770	PD220-4	270 - 250
(9) DB812K-XC	750 - 730	7' Grid Dish Antenna	243.5
(9) DB812K-XC	720 - 700	8' Parabolic Dish w/ Radome	234
(9) DB812K-XC	680 - 660	8' Parabolic Dish w/ Radome	219
(4) 5' Fiberglass (Assume Omni 5')	630 - 620	6' Parabolic Dish w/ Radome	193
1m Parabolic Dish w/ Radome	587.5	(2) 6' Parabolic Dish w/ Radome	183
TLP16M UHF LPTV	580 - 560	6' Parabolic Dish w/ Radome	163
(5) DB812K-XC	580 - 560	(3) 38"Yagis	156 - 154
(6) DB812K-XC	540 - 520	5' Parabolic Dish w/ Radome	145.5
(6) DB812K-XC	500 - 480	2' Parabolic Dish w/ Radome	129
7' Grid Dish Antenna	469.5	6' Scala Paraflector	122
(6) DB812K-XC	444 - 422	See E-7 for Feedlines and Linear Appurtenances	0
(6) DB812K-XC	420 - 400	FAA Red Beacon	0
(6) DB812K-XC	390 - 370	Lightning Rod 6'	0
(6) DB812K-XC	360 - 340	FAA Dual Obstruction	0

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	SR 7 3/4	H	2L5x5x3/4x3/4
B	SR 9 1/2	I	2L5x3 1/2x3/8x3/4
C	A500M-58	J	L5x5x3/8
D	2L5x3 1/2x3/4x3/4	K	2 @ 5.9375
E	L2x2x1/4	L	1 @ 5.66667
F	MC8x22.8	M	2 @ 4
G	2L5x5x3/8x3/4	N	5 @ 2.98333

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A500M-58	58 ksi	70 ksi
A36	36 ksi	58 ksi			

TOWER DESIGN NOTES

1. Tower designed for a 100 mph basic wind in accordance with the TIA/EIA-222-F Standard.
2. Deflections are based upon a 50 mph wind.
3. Candelabra Forces - No Ice
   A+> A: 50.00 K, H: 25.40 K
   B+> A: 50.00 K, H: 25.40 K
   C+> A: 50.00 K, H: 25.40 K

Tower Innovations
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Newburgh, IN. 47630
Phone: (812) 853-0595
FAX: (812) 853-6652

Job: GT-1033			
Project: Jacksonville, Duval County, FL			
Client:	Drawn by: T.I. Engineering Dept.		App'd:
Code: TIA/EIA-222-F	Date: 01/10/07		Scale: NTS
Path: C:\Web Site Information\PDF\08 - Tall Bolted Guyed Tower - 30ft Sep Candelabra TV - GT1033.eri			Dwg No. E-1