

FILE NO. Q3-060-0811

REV	DESCRIPTION	DWN. CHK. APP.

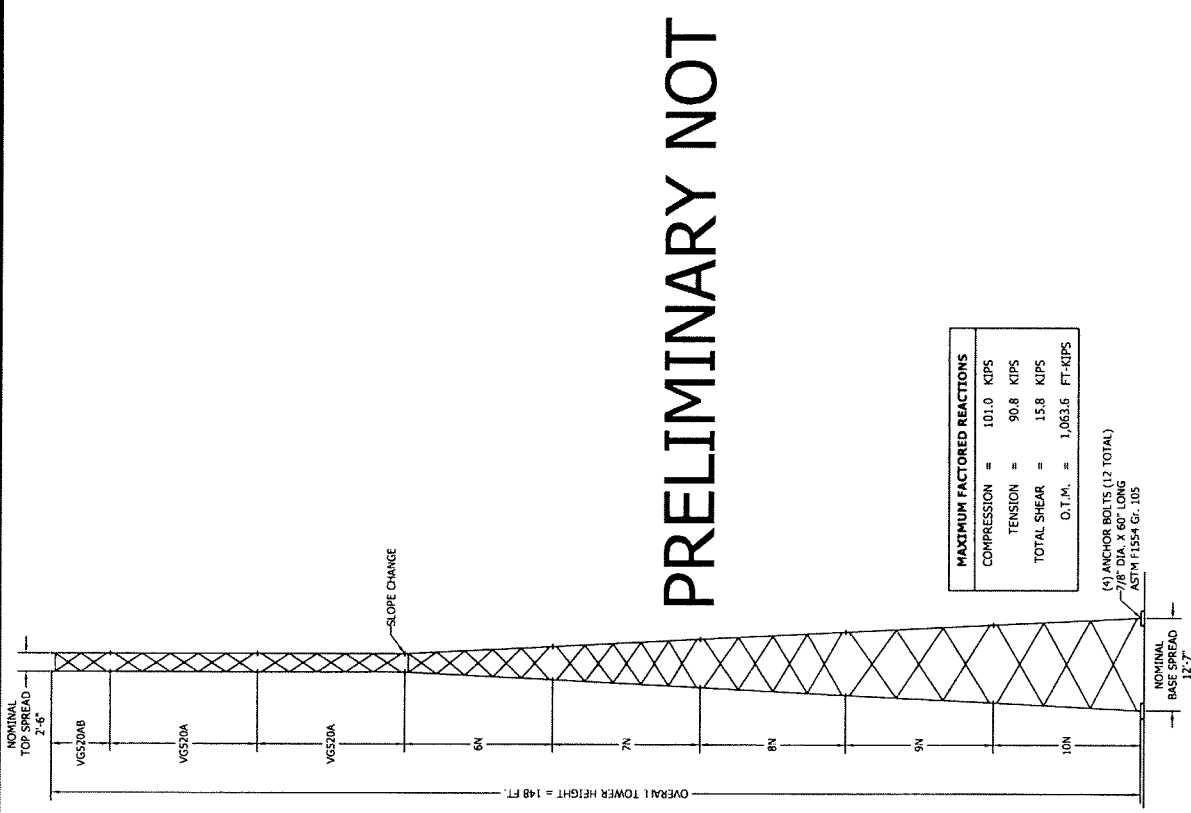
TOWER DESIGN LOADING

DESIGN WIND LOAD PER ANSI/TIA-222-G:
 BASIC WIND SPEED (NO ICE) = 90 MPH
 STRUCTURE CLASS = II
 EXPOSURE CATEGORY = C
 TOPOGRAPHIC CATEGORY = 1

THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT)	ANTENNA TYPE	LINE SIZE (NOM)
150	(3)DB809KE-XT	(3) 7/8"
76	ICE SHIELD	-
75	HP6 (AZ. 149.82 & 189.38 DEG)	(2) 1/2"
26	ICE SHIELD	-
25	HP6 (AZ. 35.60 & 95.95 DEG)	(2) 1/2"

PRELIMINARY NOT FOR CONSTRUCTION



MAXIMUM FACTORED REACTIONS	
COMPRESSION	= 101.0 KIPS
TENSION	= 90.8 KIPS
TOTAL SHEAR	= 15.8 KIPS
O.T.M.	= 1,063.6 FT-KIPS

(5) ANCHOR BOLTS (12 TOTAL)
 7/8" DIA. X 60" LONG
 ASTM F1554 Gr. 105

SECTION	LEG	DIAGONAL
VG520AB	PIPE 2.375x0.154	L1 1/2x1 1/2x1/8 (2)
VG520A	PIPE 2.375x0.154	L1 1/2x1 1/2x1/8 (5)
VG520A	PIPE 2.375x0.218	L1 1/2x1 1/2x1/8 (5)
6N	PIPE 2.375x0.218	L1 1/2x1 1/2x1/8 (5)
7N	PIPE 2.875x0.203	L1 1/2x1 1/2x1/8 (5)
8N	PIPE 2.875x0.276	L1 1/2x1 1/2x1/8 (4)
9N	PIPE 3.500x0.300	L2x2x1/8 (3)
10N	PIPE 3.500x0.300	L2x2x3/16 (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.

ROHN
 PRODUCTS
 PO BOX 5999
 PEORIA, IL 61601-5999
 TOLL FREE 800-777-ROHN

THIS DRAWING IS THE PROPERTY OF ROHN PRODUCTS. IT IS NOT TO BE REPRODUCED, COPIED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF ROHN PRODUCTS.

UTAH TRANSIT AUTHORITY
 DESIGN PROFILE
 150FT ROHN SSV TOWER
 LITTLE MOUNTAIN

DWN: AMKW CHKD: DATE: Aug/26/13
 ENGR: SHEET #:
 PROJ ENGR: AMKW PROJ MGR: MAMCR

DRAWING NO. Q3-060-0811 TOWER PROFILE
 REV. 0