

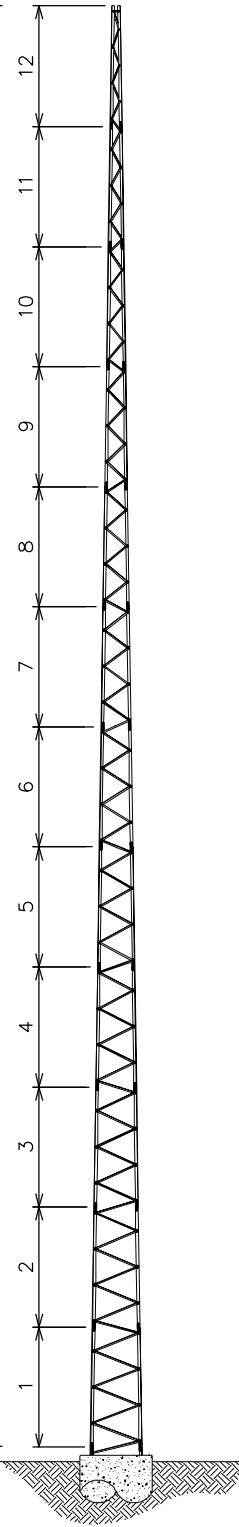
120'-0"±
T/ TOWER

SECTION #

0'-0" (REF)
B/SECTION 1

TOWER ELEVATION

N.T.S.



ALLOWABLE DESIGN LOADING FOR ROUND APPURTENANCES

(SEE FOOTNOTE 2 FOR LOADING CONFIGURATIONS WITH FLAT APPURTENANCES)

TOWER HEIGHT (FT)	TOWER MODEL	TOWER SECTION	90-mph BWS		100-mph BWS		110-mph BWS		120-mph BWS		130-mph BWS		140-mph BWS	
			AREA, A _a (sq ft)	FOUNDATION TYPE	AREA, A _a (sq ft)	FOUNDATION TYPE	AREA, A _a (sq ft)	FOUNDATION TYPE	AREA, A _a (sq ft)	FOUNDATION TYPE	AREA, A _a (sq ft)	FOUNDATION TYPE	AREA, A _a (sq ft)	FOUNDATION TYPE
120	HD-120	1-12	15.0	G	-	-	-	-	-	-	-	-	-	-
100	HD-100	3-12	20.0	G	5.0	G	-	-	-	-	-	-	-	-
90	HD-90	3-11	35.0	F	17.5	F	6.0	F	-	-	-	-	-	-
	LD-90	4-12	27.5	F	12.5	F	1.5	F	-	-	-	-	-	-
80	HD-80	3-10	52.5	F	32.5	F	20.0	F	8.5	F	-	-	-	-
	LD-80	5-12	28.5	F	16.0	F	6.0	F	-	-	-	-	-	-
70	HD-70	3-9	75.0	F	52.5	F	36.0	F	23.5	F	11.0	F	6.0	F
	LD-70	6-12	30.0	E	20.0	E	10.0	E	3.5	E	-	-	-	-
60	HD-60	3-8	107.5	F	78.5	F	58.5	F	42.5	F	30.0	F	20.0	F
	LD-60	7-12	30.0	D	20.0	D	10.0	D	3.5	D	-	-	-	-
50	HD-50	3-7	135.0	F	105.0	F	80.0	F	62.5	F	47.5	F	37.5	F
	LD-50	8-12	35.0	D	27.5	D	21.0	D	15.0	D	10.0	D	5.0	D
40	HD-40	3-6	187.5	F	147.5	F	117.5	F	95.0	F	75.0	F	62.5	F
	LD-40	9-12	37.5	C	28.5	C	22.5	C	17.5	C	13.5	C	10.0	C
30	HD-30	3-5	255.0	F	195.0	F	150.0	F	120.0	F	95.0	F	75.0	F
	LD-30	10-12	41.0	B	32.5	B	25.0	B	18.5	B	15.0	B	11.0	B
20	HD-20	3-4	265.0	E	206.0	E	165.0	E	132.5	E	107.5	E	87.5	E
	LD-20	11-12	41.0	A	32.5	A	25.0	A	18.5	A	15.0	A	11.0	A

NOTES:

- TOWER DESIGNS ARE IN ACCORDANCE WITH THE APPROVED NATIONAL STANDARD, ANSI/TIA-222-G, USING THE FOLLOWING DESIGN CRITERIA:
EXPOSURE CATEGORY B: URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER.
STRUCTURE CLASS 1: STRUCTURES THAT DUE TO HEIGHT, USE OR LOCATION REPRESENT A LOW HAZARD TO HUMAN LIFE AND DAMAGE TO PROPERTY IN THE EVENT OF FAILURE AND/OR USED FOR SERVICES THAT ARE OPTIONAL AND/OR WHERE A DELAY IN RETURNING THE SERVICES WOULD BE ACCEPTABLE.
TOPOGRAPHIC CATEGORY 1: NO ABRUPT CHANGES IN GENERAL TOPOGRAPHY, E.G. FLAT OR ROLLING TERRAIN, NO WIND SPEED UP CONSIDERATION SHALL BE REQUIRED.
- THE ALLOWABLE APPURTENANCE AREAS, A_a (SQ FT), ARE CALCULATED FOR ROUND OR CYLINDRICAL APPURTENANCES. WHEN LOADING INCLUDES FLAT APPURTENANCES OR FLAT COMPONENTS, THE ALLOWABLE A_a LISTED SHALL BE REDUCED BY A FACTOR OF 0.7.
- LOADING VALUES ASSUME THREE (3) 1/2" TRANSMISSION LINES SYMMETRICALLY PLACED AROUND THE TOWER.
- FOR HD TOWERS THE FULL ALLOWABLE LOADING SHALL NOT BE PLACED HIGHER THAN 5-FT ABOVE THE TOP OF TOWER.
FOR LD TOWERS THE FULL ALLOWABLE LOADING SHALL NOT BE PLACED HIGHER THAN 2-FT ABOVE THE TOP OF TOWER.
- FOUNDATIONS HAVE BEEN DESIGNED FOR THE PRESUMPTIVE SOIL PARAMETERS PROVIDED IN ANNEX F OF THE TIA-222-G STANDARD FOR A SAND SOIL TYPE.
- ALL TOWER INSTALLATIONS SHALL BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.

PREPARED FOR:



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SHEET TITLE:

**HD/LD TOWER MODELS
ALLOWABLE DESIGN LOADING**

DESIGN INFORMATION:

STANDARD: ANSI/TIA-222-G-1
EXPOSURE CATEGORY: B
STRUCTURE CLASSIFICATION: 1
TOPOGRAPHIC CATEGORY: 1
SOIL TYPE: SAND

TEPJOB #: 090003.10 DRAWN BY: PEH REV: 1