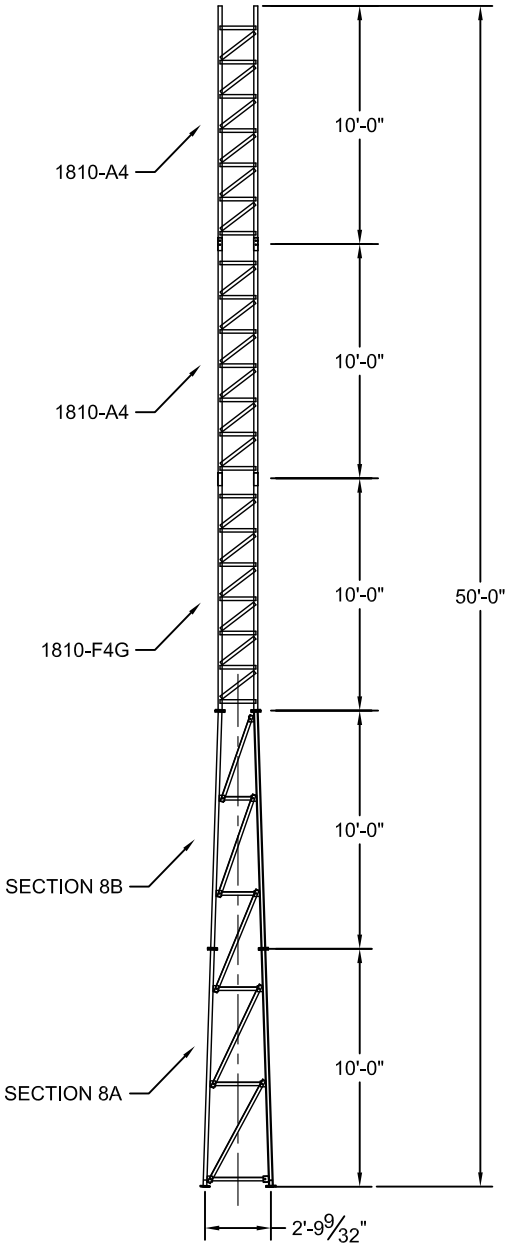
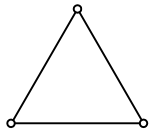
According to ANSI/EIA-222-F 1996

70mph / 60.62 mph + 1/2" radial ice w/ (3 second gust) per OBC AND IBC				
	CaAa	Flat Plate Area	Weight	Elevation
No Ice	38 sq ft	21.10 sq ft	100 lbs.	50.0 ft.
1/2" Ice	32 sq ft	17.78 sq ft	150 lbs.	50.0 ft.
(1) - 7/8" coax Elevation 0 ft to 50 ft				
Climbing Ladder Elevation 0 ft to 20 ft				

* PIPE LEGS 42 KSI MIN YIELD
10 GA H.S. TUBE LEGS 50 KSI MIN YIELD

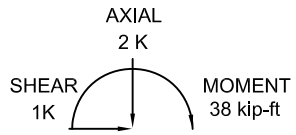
	ASTM
LEGS	2.0" x 10 GA *
DIAGONALS	L3/4" x 3/4" x 1/8" A36
GIRTS	L1-1/4" x 1-1/4" x 1/8" A36
BRACE BOLTS	-SHOP WELDED- (33) - 5/8"Ø GRADE 5
SPLICE BOLTS	(6) - 1/2"Ø (12) - 1/2"Ø GRADE 5
ANCHOR BOLTS	1.9" x 0.145" (4) - 3/4"Ø (C1018 THREADED ROD)



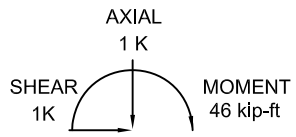


INTERIOR BRACING
- NOT REQUIRED -

MAX. CORNER REACTIONS AT BASE:
DOWN: 20 K
UPLIFT: -18 K
SHEAR: 1 K



TORQUE 0 kip-ft
60.62 mph WIND - 0.50 in ICE



REACTIONS - 70.00 mph WIND

AMERICAN TOWER COMPANY
ISO 9001 – 2000
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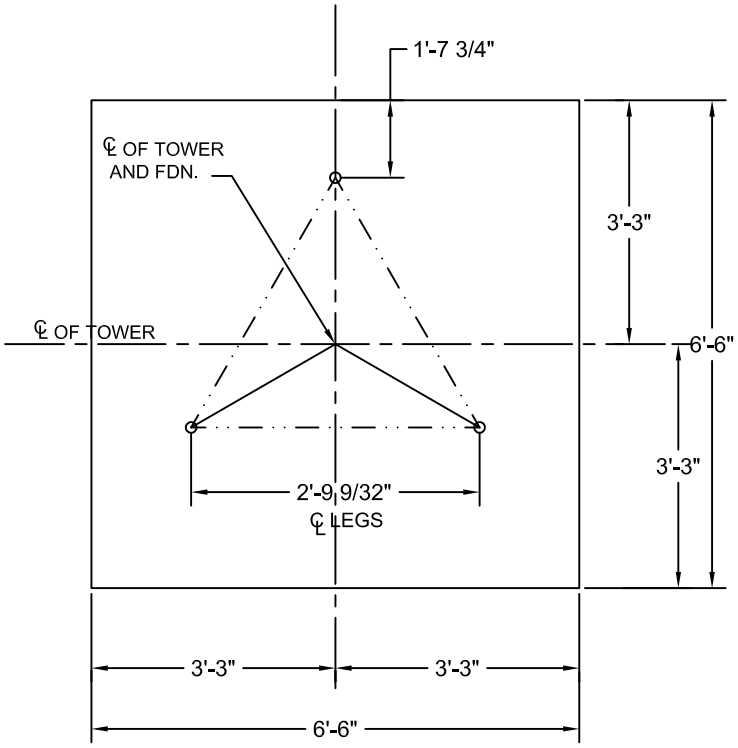
Since 1953
Fax (419) 347–1654

TITLE 50' KA SERIES
SELF SUPPORTING TOWER

SIZE		DWG NO	SHT. #
A		1439	1
DRAWN BY: RAS		DATE: 10/27/08	



PLAN

NOTES:

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS

2.REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 (GRADE 60).

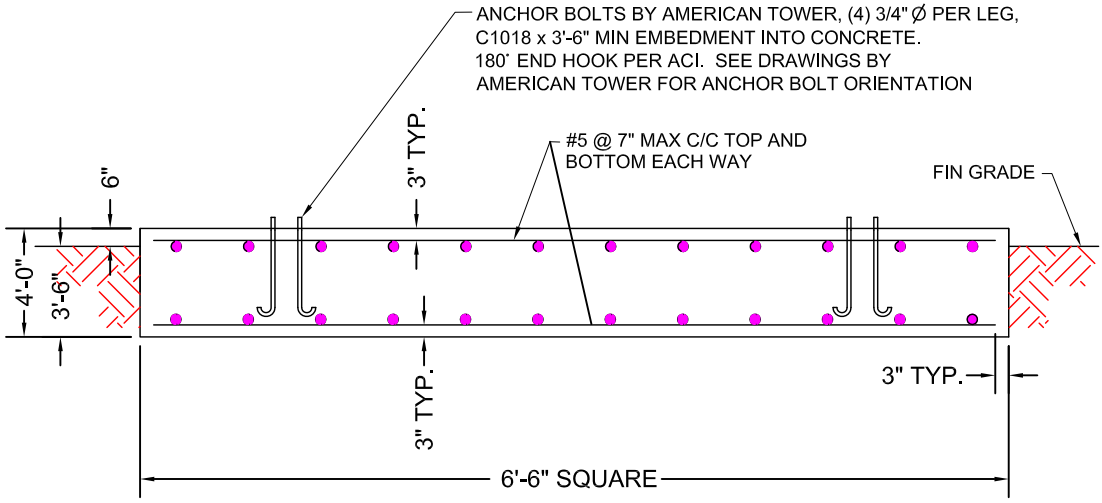
3. TOTAL CONCRETE = 6.3 CUBIC YARDS.

4. FOUNDATION DESIGN BASED UPON THE FOLLOWING:

ALLOW BEARING PRESSURE: 2000 PSF
UNIT WEIGHT: 100 PCF
WATER AND ROCK LOCATED BELOW FOOTING

FOOTING MUST BEAR ON UNDISTURBED SOIL OR COMPACTED BACKFILL.

HORIZ.	= 1k
COMP.	= 1k
OTM	= 44k-ft.



MAT FOUNDATION

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TITLE: 50' KA SERIES FOUNDATION			
SIZE: A		DWG NO: 1439A	SHT. #: 2
DRAWN BY: RAS		DATE: 10/27/08	