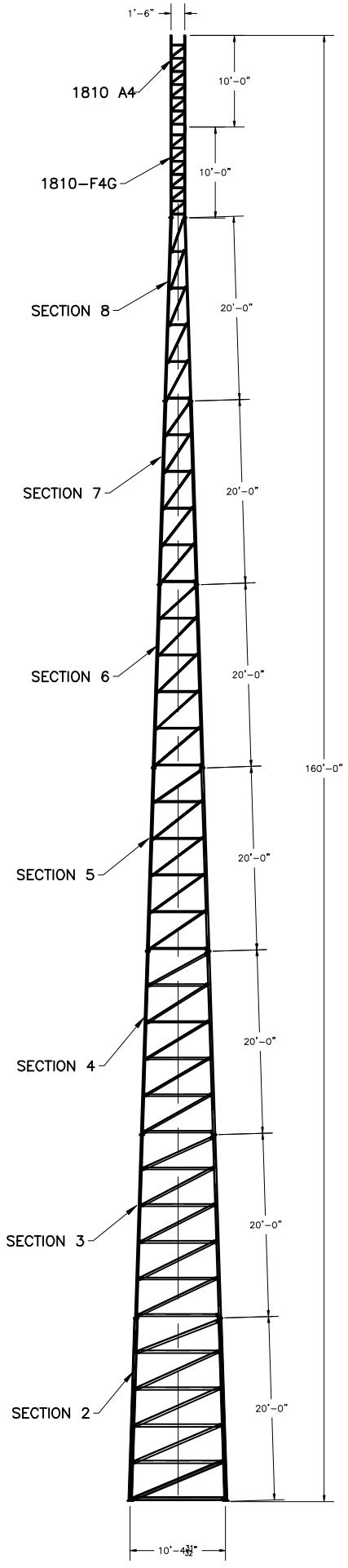


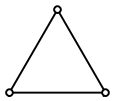
ASTM													
LEGS	3.5" x 0.300"	2.875" x 0.276"			2.875" x 0.203"	2.375" x 0.218"	2.375" x 0.154"	1.9" x 0.145"	2.0" x 10 GA	*			
DIAGONALS	L3 1/2x3 1/2x1/4	L3 x 3 x 3/16	L2 1/2x2 1/2x3/16		L2 x 2 x 1/8	L1 3/4 x 1 3/4 x 1/8		L1 1/2x1 1/2x1/8	L3/4 x 3/4 x 1/8	A36			
GIRTS	L3 1/2x3 1/2x1/4	L3 x 3 x 3/16	L2 1/2x2 1/2x3/16		L2 x 2 x 1/8	L1 3/4 x 1 3/4 x 1/8		L1 1/2x1 1/2x1/8	L1 1/4x1 1/4x1/8		-SHOP WELDED-		GRADE 5
BRACE BOLTS	(1)-3/4"ø	(4)-3/4"ø		(1)-5/8"ø			(4)-1/2"ø					(2)-1/2"ø	
SPLICE BOLTS	(1)-3/4"ø	(4)-3/4"ø			(4)-5/8"ø								
ANCHOR BOLTS	(4)-1"ø (C1018 THREADED ROD)												

According to ANSI/EIA-222-F 1996

90 mph/78 mph + 1/2" radial ice w/ (3 second gust) per OBC AND IBC				
	CaAa	Flat Plate Area	Weight	Elevation
No Ice	29.5 sq ft	16.39 sq ft	200 lbs	160 ft
1/2" Ice	36.0 sq ft	20.00 sq ft	350 lbs	160 ft
No Ice	50.0 sq ft	27.78 sq ft	350 lbs	160 ft to 130 ft
1/2" Ice	60.5 sq ft	33.61 sq ft	600 lbs	160 ft to 130 ft
(1)-7/8" coax Elevation 0 ft to 160 ft				
Climbing Ladder Elevation 0 ft to 140 ft				

70 mph/61 mph + 1/2" radial ice (Fastest MPH) per EIA-222-F				
	CaAa	Flat Plate Area	Weight	Elevation
No Ice	30.0 sq ft	16.67 sq ft	200 lbs	160 ft
1/2" Ice	36.5 sq ft	20.28 sq ft	350 lbs	160 ft
No Ice	51.5 sq ft	28.61 sq ft	350 lbs	160 ft to 130 ft
1/2" Ice	61.5 sq ft	34.17 sq ft	600 lbs	160 ft to 130 ft
(1)-7/8" coax Elevation 0 ft to 160 ft				
Climbing Ladder Elevation 0 ft to 140 ft				

* PIPE LEGS 42 KSI MIN YIELD
10 GA TUBE LEGS 30 KSI MIN YIELD



INTERIOR BRACING
– NOT REQUIRED –

FOUNDATION REACTIONS
TOTAL MOMENT: 618
TOTAL SHEAR: 8 KIPS
TOTAL DOWNLOAD: 14 KIPS

AMERICAN TOWER COMPANY
ISO 9001-2000
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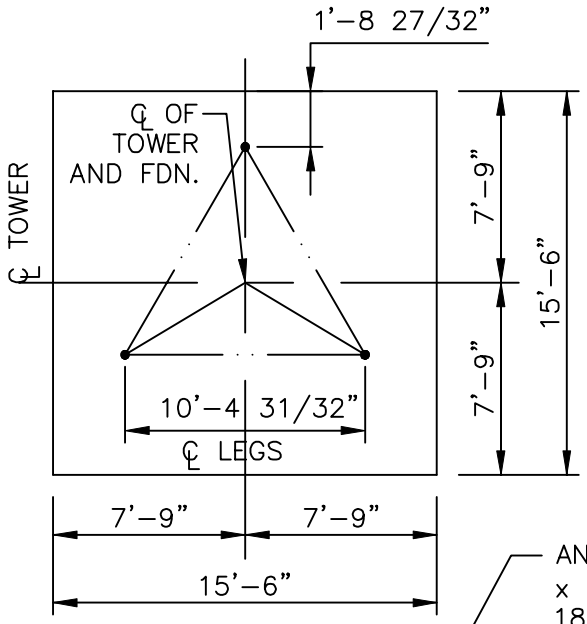
www.amertower.com
info@amertower.com
Telephone (419)347-1185
Since 1953
Fax (419) 347-1654

160' STANDARD

BY: DOW | DATE: 12/21/02

DWG NO. 1058



PLAN

NOTES:

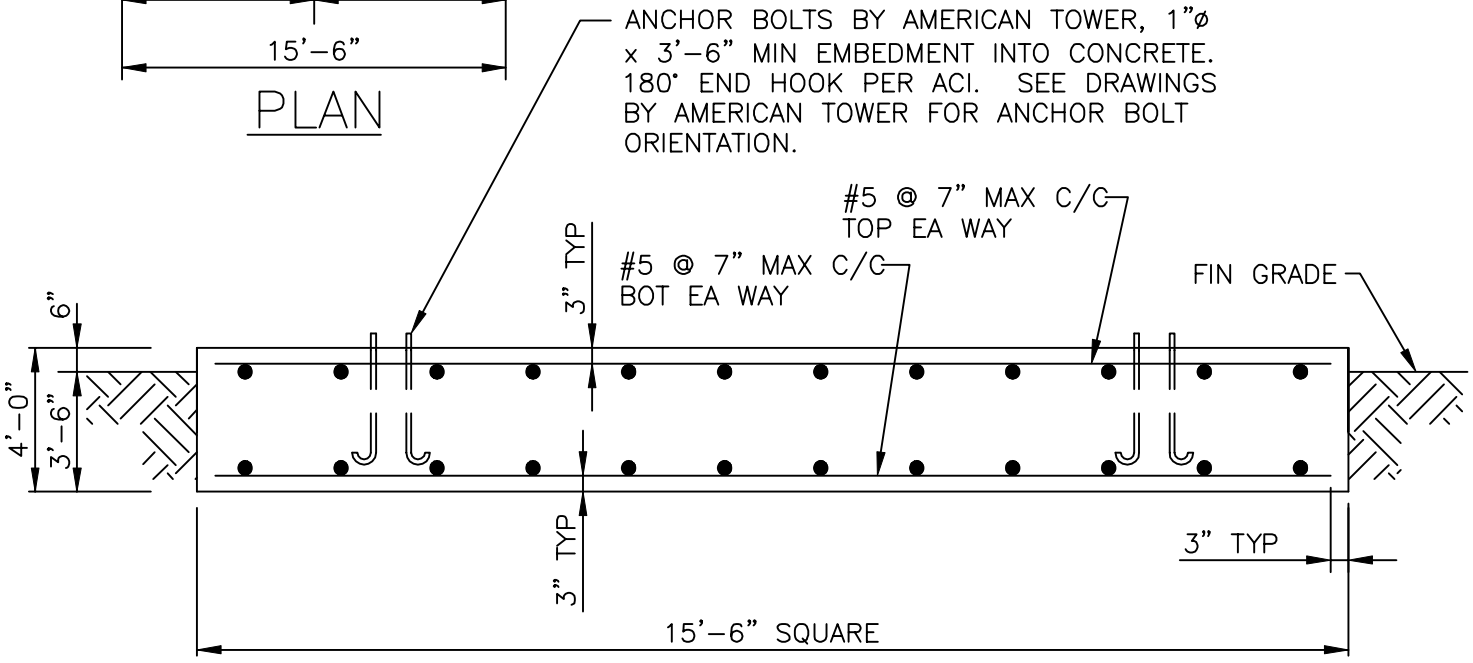
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.

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

3. TOTAL CONCRETE = 35.6 CUBIC YARDS.

4. FOUNDATION DESIGN BASED UPON THE FOLLOWING:

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



MAT FOUNDATION

FOOTING MUST BEAR ON UNDISTURBED SOIL OR COMPACTED BACKFILL.

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160' STANDARD FOUNDATION

BY: DOW | DATE: 12/21/02

DWG NO. 1058 A