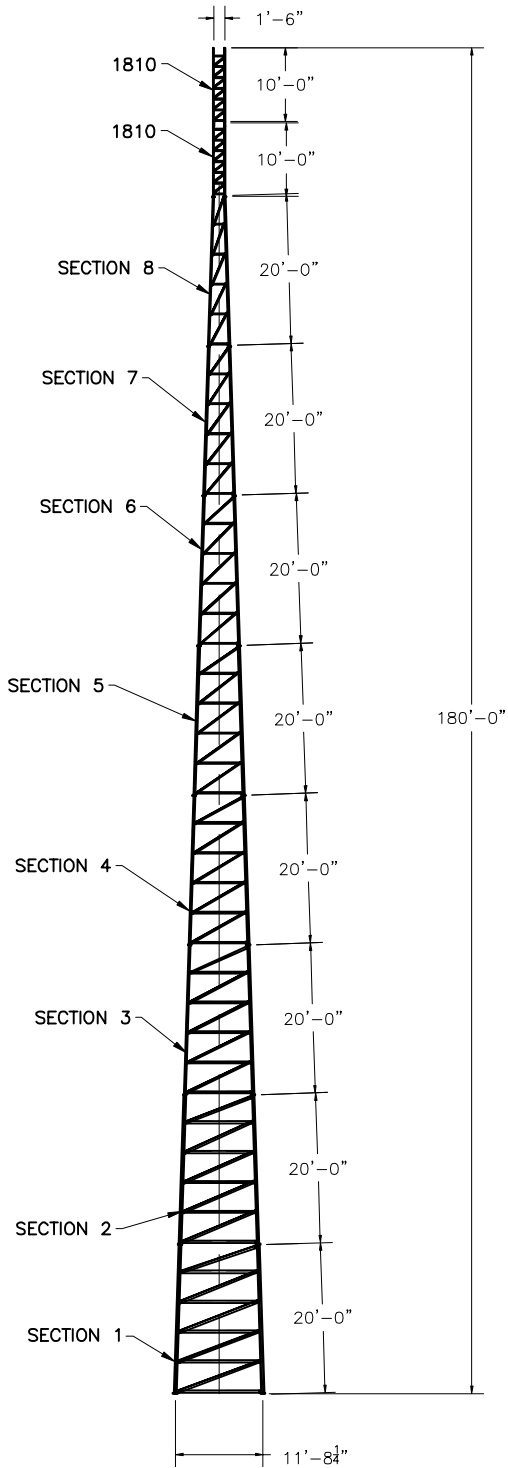


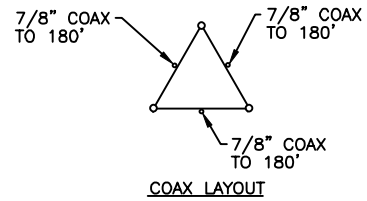
LEGs		DIAGONALS		GIRTS		BRACE BOLTS		SPLICE BOLTS		ANCHOR BOLTS	
4" x 0.318"	3.5" x 0.300"	2.875" x 0.276"	2.875" x 0.203"	2.375" x 0.218"	2.375" x 0.154"	1.9" x 0.145"	2.0" x 0.1345"	ASTM			
L4 x 4 x 1/4	L3 1/2 x 3 1/2 x 1/2	L3 x 3 x 3/16	L2 x 2 x 1/8	L1 3/4 x 1 3/4 x 1/8	L1 1/2 x 1 1/2 x 3/8	L1 1/2 x 1 1/2 x 1/8	L1 1/2 x 1 1/2 x 1/8	GRADE 5			
L4 x 4 x 1/4	L3 1/2 x 3 1/2 x 1/2	L3 x 3 x 3/16	L2 x 2 x 1/8	L1 3/4 x 1 3/4 x 1/8	L1 1/2 x 1 1/2 x 3/8	L1 1/2 x 1 1/2 x 1/8	L1 1/2 x 1 1/2 x 1/8	A36			
(1)-3/4"	(4)-7/8"	(4)-3/4"	(4)-5/8"	(1)-5/8"	(4)-1/2"	SECTION 8					
(1)-3/4"	(4)-7/8"	(4)-3/4"	(4)-5/8"	(1)-5/8"	(4)-1/2"	SECTION 7					
(1)-3/4"	(4)-7/8"	(4)-3/4"	(4)-5/8"	(1)-5/8"	(4)-1/2"	SECTION 6					
(1)-3/4"	(4)-7/8"	(4)-3/4"	(4)-5/8"	(1)-5/8"	(4)-1/2"	SECTION 5					
(1)-3/4"	(4)-7/8"	(4)-3/4"	(4)-5/8"	(1)-5/8"	(4)-1/2"	SECTION 4					
(1)-3/4"	(4)-7/8"	(4)-3/4"	(4)-5/8"	(1)-5/8"	(4)-1/2"	SECTION 3					
(1)-3/4"	(4)-7/8"	(4)-3/4"	(4)-5/8"	(1)-5/8"	(4)-1/2"	SECTION 2					
(1)-3/4"	(4)-7/8"	(4)-3/4"	(4)-5/8"	(1)-5/8"	(4)-1/2"	SECTION 1					



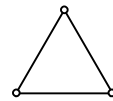
According to ANSI/EIA-222-F 1996

90 mph/78 mph + 1/2" radial ice w/ (3 second gust) per OBC AND IBC				
	CaAa	Flat Plate Area	Weight	Elevation
No Ice	22.0 sq ft	12.22 sq ft	800 lbs	180 ft
1/2" Ice	25.0 sq ft	13.88 sq ft	1000 lbs	180 ft
No Ice	36.0 sq ft	20.00 sq ft	800 lbs	180 ft to 150 ft
1/2" Ice	41.0 sq ft	22.78 sq ft	1400 lbs	180 ft to 150 ft
(3)-7/8" coax Elevation 0 ft to 180 ft Coax to be equally distributed to three tower faces				
Climbing Ladder Elevation 0 ft to 160 ft				

70 mph/61 mph + 1/2" radial ice (Fastest MPH) per EIA-222-F				
	CaAa	Flat Plate Area	Weight	Elevation
No Ice	21.0 sq ft	11.67 sq ft	800 lbs	180 ft
1/2" Ice	24.0 sq ft	13.33 sq ft	1000 lbs	180 ft
No Ice	36.0 sq ft	20.00 sq ft	800 lbs	180 ft to 150 ft
1/2" Ice	40.0 sq ft	22.22 sq ft	1400 lbs	180 ft to 150 ft
(3)-7/8" coax Elevation 0 ft to 180 ft Coax to be equally distributed to three tower faces				
Climbing Ladder Elevation 0 ft to 160 ft				



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



FOUNDATION REACTIONS  
TOTAL MOMENT: 774 FT-KIPS  
TOTAL SHEAR: 10 KIPS  
TOTAL DOWNLOAD: 21 KIPS

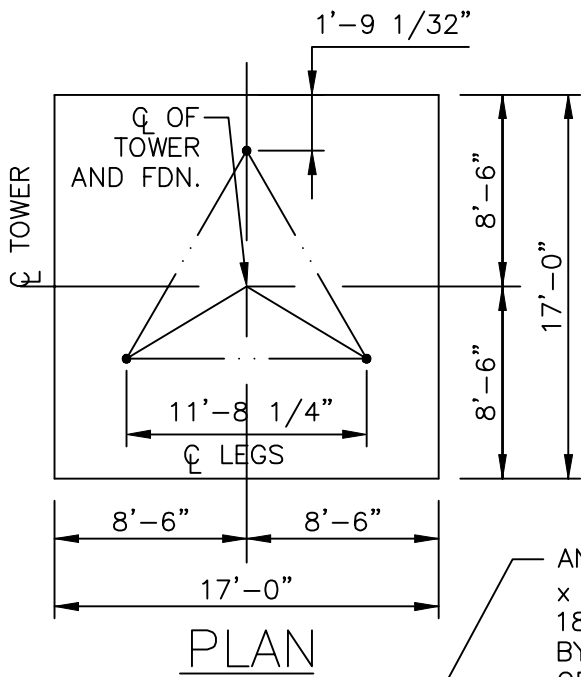
AMERICAN TOWER COMPANY  
ISO 9001-2000  
P.O. Box 29 Shelby, Ohio 44875  
www.amertower.com  
info@amertower.com  
Since 1953

Telephone (419) 347-1185 Fax (419) 347-1654

180'  
HEAVY

BY: DOW DATE: 12/21/02

DWG NO. 1181

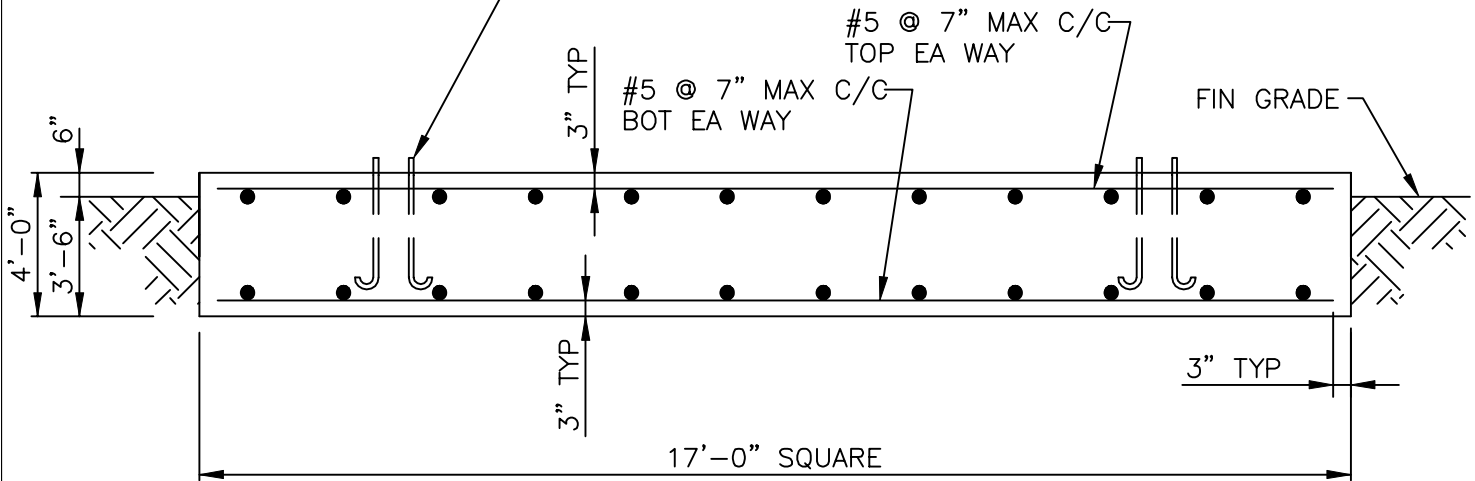


**NOTES:**

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 = 42.9 CUBIC YARDS.
4. FOUNDATION DESIGN BASED UPON THE FOLLOWING:

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

ANCHOR BOLTS BY AMERICAN TOWER, 1"Ø x 3'-6" MIN EMBEDMENT INTO CONCRETE. 180° END HOOK PER ACI. SEE DRAWINGS BY AMERICAN TOWER FOR ANCHOR BOLT ORIENTATION.



**MAT FOUNDATION**

FOOTING MUST BEAR ON UNDISTURBED SOIL OR COMPACTED BACKFILL.

<b>AMERICAN TOWER COMPANY</b> ISO 9001-2000 P.O. Box 29 Shelby, Ohio 44875 www.amertower.com info@amertower.com Since 1953	
Telephone (419)347-1185	Fax (419) 347-1654
<b>180' HEAVY FOUNDATION</b>	
BY: DOW	DATE: 12/21/02
<b>DWG NO. 1181 A</b>	