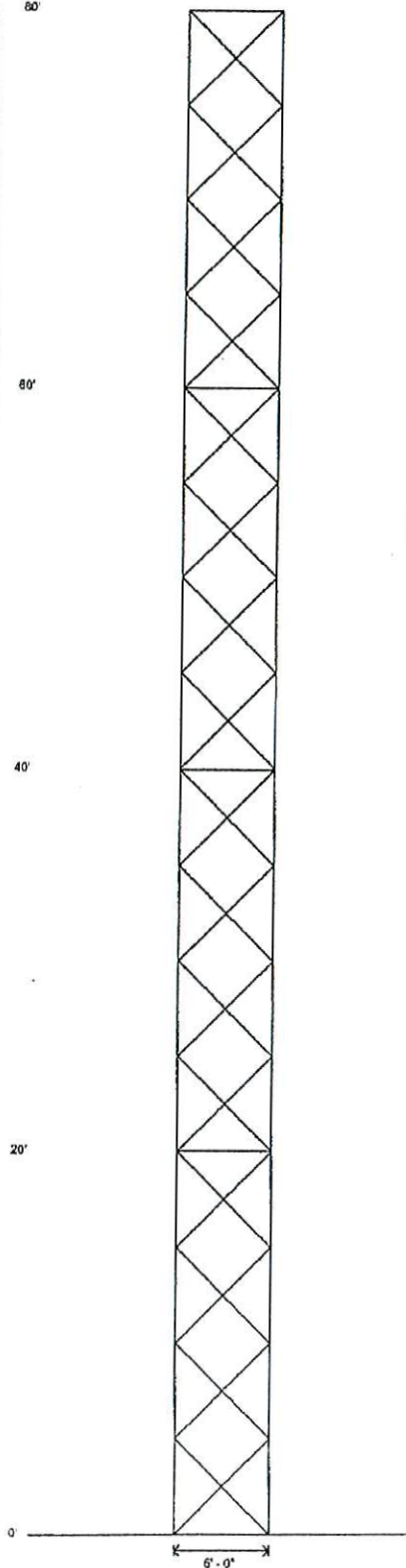


SIZES ARE PRELIMINARY AND MAY CHANGE UPON FINAL DESIGN

|                    |                 |                 |                 |                 |
|--------------------|-----------------|-----------------|-----------------|-----------------|
| Log...             | 5.293 OD X .375 | 4.590 OD X .337 | 3.590 OD X .300 | 2.676 OD X .270 |
| Diagonals          | L 2 X 2 X 3/16  | L 2 X 2 X 1/8   | L 2 X 2 X 1/8   | L 2 X 2 X 1/8   |
| Horizontals        | NONE            | NONE            | NONE            | NONE            |
| Brace Bolts        | L 2 X 2 X 3/16  | L 2 X 2 X 3/16  | L 2 X 2 X 1/8   | L 2 X 2 X 1/8   |
| Top Face W/400     | (1) 5/8"        | (1) 5/8"        | (1) 5/8"        | (1) 5/8"        |
| Panel Count/Height | 18 @ 6'         | 18 @ 6'         | 18 @ 6'         | 18 @ 6'         |
| Section Weight     | 1871            | 1532            | 1029            | 643             |



### Designed Appurtenance Loading

| Elev | Description        | Tx-Line  |
|------|--------------------|----------|
| 80   | 10 sq. ft. EPA     | (1) 1"   |
| 80   | 28.5 sq. ft. EPA   | (1) 1"   |
| 80   | 3.2 sq. ft. EPA    | (1) 1"   |
| 79   | 82.8 sq. ft. EPA   | (4) 1"   |
| 77   | 16 sq. ft. EPA     |          |
| 77   | Platform - Fixed   |          |
| 70   | 1.7 sq. ft. EPA    |          |
| 70   | (2) Leg Dish Mount |          |
| 70   | (2) 4" H.P. Dishes | (2) EW65 |
| 50   | 1.7 sq. ft. EPA    |          |
| 30   | 1.7 sq. ft. EPA    |          |
| 10   | 1.7 sq. ft. EPA    |          |

### Base Reactions

|                   | Total Foundation | Individual Footing     |
|-------------------|------------------|------------------------|
| Shear (kips)      | 14.55            | Shear (kips) 7.23      |
| Axial (kips)      | 14.52            | Compression (kips) 200 |
| Moment (ft-kips)  | 845              | Uplift (kips) 189      |
| Torsion (ft-kips) | -2.81            |                        |

### Notes

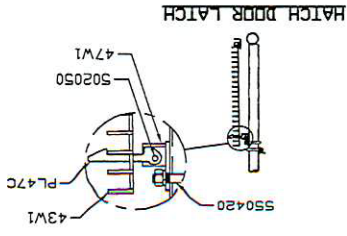
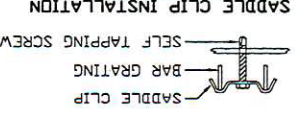
- 1) All legs are 60 ksi.
- 2) All braces are 36 ksi.
- 3) All brace bolts are A325-X.
- 4) The tower model is S3TL Series HD1.
- 5) Transmission lines are to be attached to standard 8 hole waveguide ladders.
- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.
- 8) (6) 1" dia. F1554 grade 105 anchor bolts per leg. Minimum 35.5" embedment from top of concrete to top of nut.
- 9) All unequal angles are oriented with the short leg vertical.
- 10) This tower was designed for a basic wind speed of 90 mph with 0" of radial ice, in accordance with ANSI/TIA-222-G, Structure Class III, Exposure Category C, Topographic Category I.
- 11) The foundation loads shown are factored loads.



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 OF \_\_\_\_\_

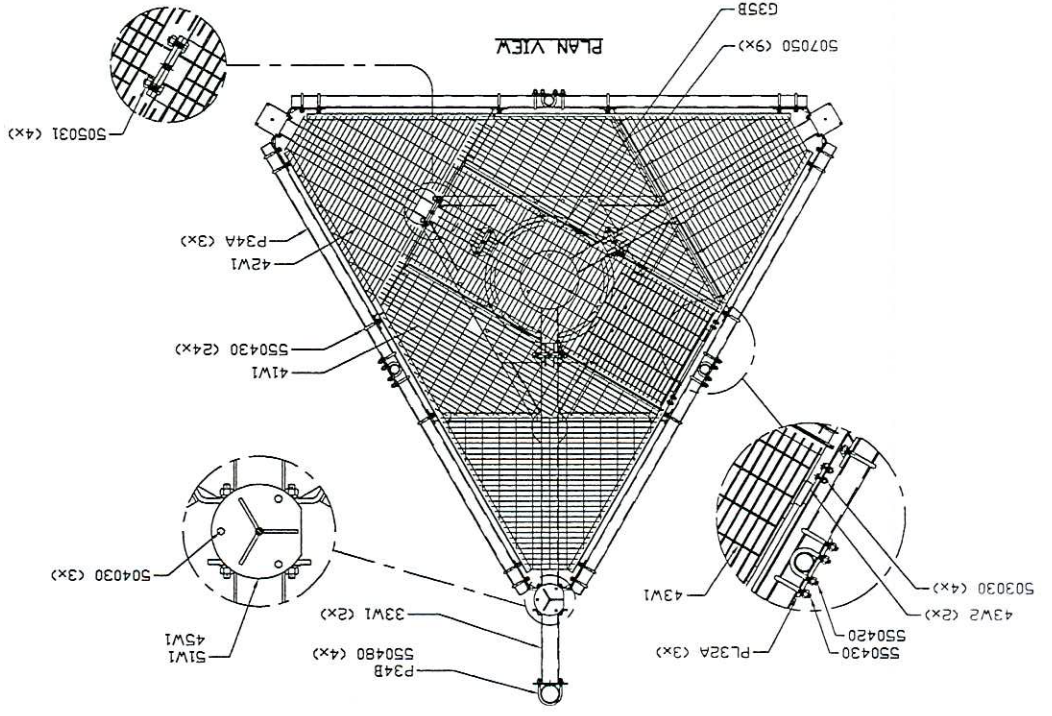
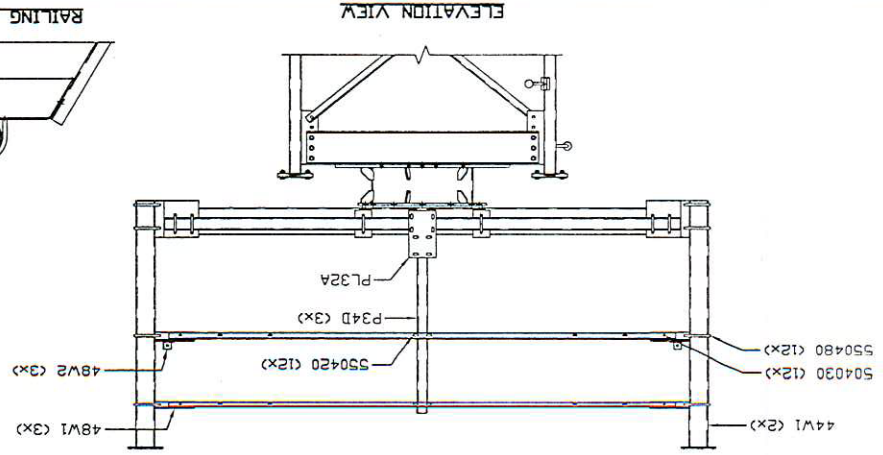
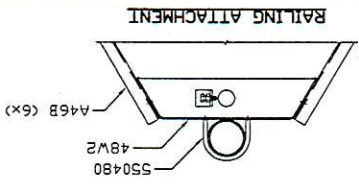
**PLATFORM INSTALLATION**

SITE: \_\_\_\_\_



BLACK IRON WT = 1620#  
 GALVANIZED WT = 1780#

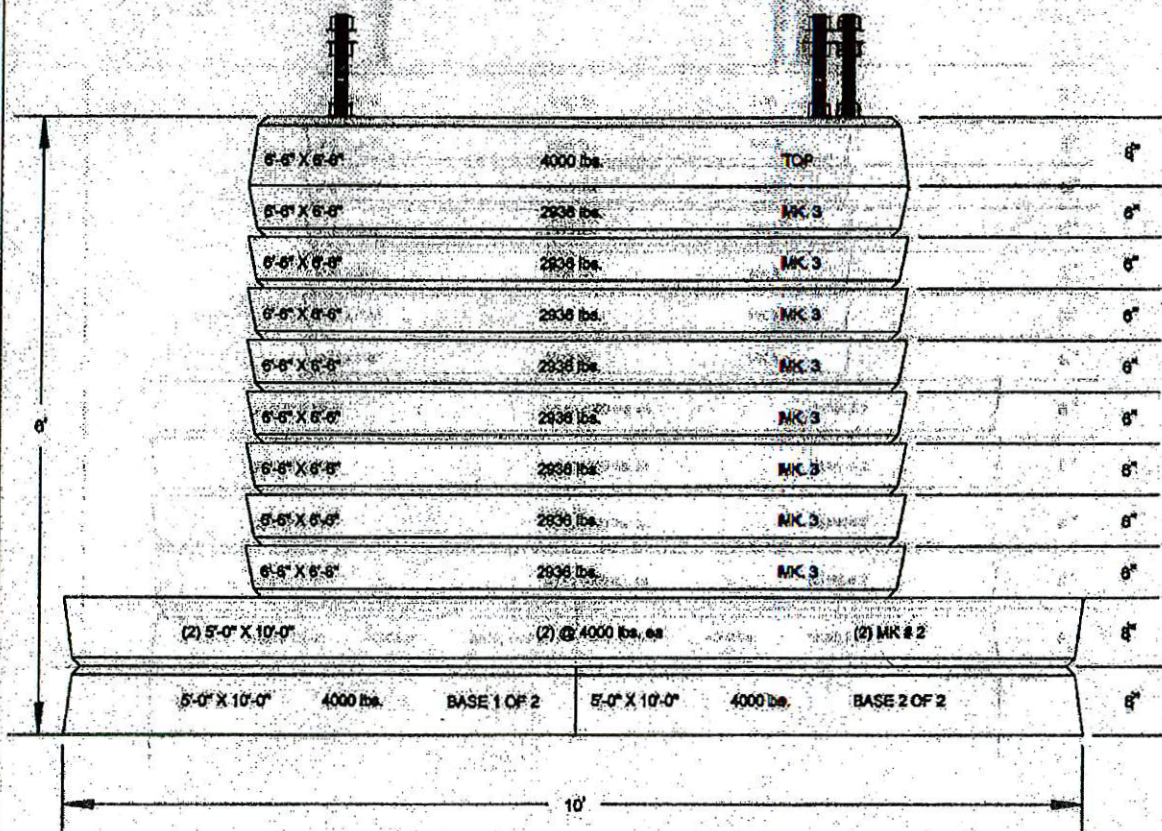
| WT# | DESCRIPTION   | QTY | ITEM   | MK# |
|-----|---|-----|--------|-----|
| 53  | EXTENSION WELDMENT X 18" LG.                                  | 2   | 33W1   |     |
| 674 | PLATFORM WELDMENT   | 1   | 41W1   |     |
| 128 | PLATFORM WELDMENT   | 1   | 42W1   |     |
| 36  | HATCH DOOR WELDMENT   | 1   | 43W1   |     |
| 2   | HINGE WELDMENT  | 2   | 43W2   |     |
| 116 | CAMERA MOUNT WELDMENT X 5'-0 3/8" LG.                         | 2   | 44W1   |     |
| 59  | LIGHTNING ROD WELDMENT X 5'-0 3/8" LG.                        | 1   | 45W1   |     |
| 3   | DOOR LATCH WELDMENT   | 1   | 47W1   |     |
| 47  | UPPER RAILING WELDMENT  | 3   | 48W1   |     |
| 44  | LOWER RAILING WELDMENT  | 3   | 48W2   |     |
| 10  | LIGHTNING ROD WELDMENT X 6'-0 1/4" LG.                        | 1   | 51W1   |     |
| 23  | 3/8" X 6 1/2" PLATE A36 X 11 1/4" LG.                         | 3   | PL32A  |     |
| 178 | 2 7/8" OD X .203" WALL PIPE A36 X 10'-3 1/16" LG.             | 3   | P34A   |     |
| 65  | 4 1/2" OD X .237" WALL PIPE A36 X 6'-0" LG.                   | 1   | P34B   |     |
| 49  | 2 3/8" OD X .154" WALL PIPE A36 X 4'-6" LG.                   | 3   | P34D   |     |
| 24  | 1" X 1/8" BAR GRATING   | 1   | G35B   |     |
| 108 | 1/4" X 1 1/16" PLATE A36 X 4 3/8" LG (LATCH)                  | 1   | PL47C  |     |
| 1   | 5/8" X 2" BOLT A325 W/L/W & NUT                               | 4   | 505031 |     |
| 2   | 1/2" X 1 1/2" BOLT A325 W/L/W, F/W & NUT                      | 15  | 504030 |     |
| 3   | 3/8" X 1 1/4" BOLT W/L/W & NUT                                | 4   | 503030 |     |
| 1   | 1/4" X 1" BOLT W/L/W & NUT                                    | 1   | 502050 |     |
| 7   | U-BOLT 1/2" X 4 1/2" W/(2) L/W, (2) F/W, & (2) NUTS           | 13  | 550420 |     |
| 11  | U-BOLT 1/2" X 3" X 4 1/8" W/(2) L/W, (2) F/W, & (2) NUTS      | 24  | 550430 |     |
| 13  | U-BOLT 1/2" X 4 9/16" X 3 3/4" W/(2) L/W, (2) F/W, & (2) NUTS | 20  | 550480 |     |
| --  | 1/4" - 14 X 2" LG HWH T-3 SELF TAPPING SCREW                  | 4   | B6     |     |
| --  | 7/8" X 2 3/4" A325 BOLT W/L/W, F/W, & NUT                     | 9   | 507050 |     |
| 4   | SADDLE CLIPS  | 4   |        |     |





**Bill of Material**

| Qty | Description  |
|-----|--|
| 1   | Base Section 2 Pc 10' x 10' overall                              |
| 1   | # 2 Section 2 Pc 10' x 10' Overall                               |
| 8   | MK # 3 6' 6" x 6' 6"   |
| 1   | MK Top 6' 6" x 6' 6"   |
| 6   | 1 1/2" x 78" Bolts & Hardware<br>W/ 3 Nuts & 3 Flat Washers Each |



Total Weight: 44,000 lbs.  
OT @ 404 kips

6 - 1 1/2" x 78" Bolts  
Grade 55

**Elevation View**