

**COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION**

**RECEIVED**

JUN 17 2004

In the Matter of:

THE APPLICATION OF BELLSOUTH PERSONAL )  
COMMUNICATIONS, LLC AND )  
BELLSOUTH MOBILITY, LLC, )  
D/B/A CINGULAR WIRELESS - KENTUCKY )  
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO CONSTRUCT )  
A WIRELESS COMMUNICATIONS FACILITY AT )  
1365 WINSTON ROAD, IRVINE, KY 40336 )  
IN THE WIRELESS COMMUNICATIONS LICENSE AREA )  
IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF ESTILL )

**PUBLIC SERVICE  
COMMISSION**

CASE NO.: 2004-00186

SITE NAME: WINSTON

\*\*\*\*\*

**NOTICE OF SECOND AMENDMENT  
TO APPLICATION FOR  
CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY  
FOR CONSTRUCTION OF A WIRELESS COMMUNICATIONS FACILITY**

**(AMEND TOWER TYPE)**

Come BellSouth Personal Communications, LLC and BellSouth Mobility, LLC, d/b/a Cingular Wireless – Kentucky (hereinafter referred to collectively as “Applicant”), by counsel, and for this Notice of Second Amendment state as follows:

1. Applicant filed an Application for Certificate of Public Convenience and Necessity with the Commission on May 19, 2004 requesting the issuance of a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility (“WCF”) at 1365 Winston Road, Irvine, KY.

2. Said Application was subsequently amended by Applicant’s Notice of First Amendment to Application for Certificate of Public Convenience and Necessity for

Construction of a Wireless Communications Facility (Correction to Notice Exhibits), and Applicant's May 27, 2004 letter filed in the administrative case (the "Application").

3. The Application requests, inter alia, approval for construction of a 190-foot tall guyed tower, with an approximately 9-foot tall lightning arrestor attached at the top, for a total height of 199 feet.

4. Applicant wishes to amend the Application to change the type of the proposed tower from a guyed tower to a self-support tower.

5. Applicant, by this Notice, hereby amends the application to request approval for construction of a 190-foot tall self-support tower, with an approximately 9-foot tall lightning arrestor attached at the top, for a total height of 199 feet.

6. The location of the proposed self-support tower and all other proposal details outlined in the Application remain unchanged.

7. To date, no person has requested or been granted intervention in the administrative case. Nonetheless, to ensure that complete and accurate notice is provided to area landowners and Estill County government regarding the change in Applicant's proposal, Applicant has mailed supplemental notice letters by certified mail, return receipt requested, setting forth the change in tower type noticed herein to all persons listed on **Exhibit K** to the Application, and to the Estill County Judge/Executive. Copies of the supplemental notice letters are attached to this Second Notice as **Second Notice Exhibit A**.

8. Exhibit B to the Application is hereby amended so as to replace the existing **Exhibit B** with the attached **Replacement Exhibit B**, being revised site plans, site survey

and elevation drawings depicting the new proposed tower type.

9. **Exhibit C** to the Application is hereby amended so as to replace the Tower Foundation and Design drawings included therein with the attached **Replacement Exhibit C**, being revised Tower Foundation and Design drawings for the new proposed tower type.

10. **Exhibit H** of the Application is amended so as to include the attached **Exhibit H Supplemental**, being a letter from a Registered Kentucky Professional Engineer. Said letter references the geo-technical report submitted with the Application and certifies that the recommendations included in the submitted report in reference to the originally-proposed guyed tower will apply equally to the newly-proposed self-support tower.

11. All references to a "guyed tower" in the Application are hereby amended to instead reference a "self-support tower."

12. All other provisions of remainder of the Application remain unchanged.

WHEREFORE, Applicant, by counsel, respectfully requests that the Commission enter all necessary notations or Orders to give effect to this Notice of Second Amendment.

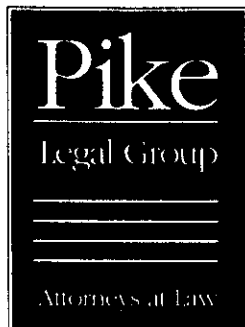
Respectfully submitted,



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David A. Pike  
Pike Legal Group, PLLC  
1578 Highway 44 East, Suite 6  
P. O. Box 369  
Shepherdsville, KY 40165-0369  
Telephone: (502) 955-4400  
Telefax: (502) 543-4410  
Attorney for BellSouth Personal Communications, LLC  
and  
BellSouth Mobility, LLC,  
d/b/a Cingular Wireless – Kentucky

**SECOND NOTICE EXHIBIT A**  
**[Copy of Supplemental Notice Mailing]**



## Notice of Proposed Construction Wireless Communications Facility Proposal

Dear Landowner:

You will recall that I wrote to you on May 19, 2004 concerning an application filed on behalf of BellSouth Personal Communications, LLC and BellSouth Mobility, LLC, d/b/a Cingular Wireless – Kentucky ("Cingular") with the Kentucky Public Service Commission (the "PSC") for a new wireless communications facility at 1365 Winston Road, Irvine, Kentucky 40336 (37° 42' 43.37" North latitude, 84° 05' 16.97" West longitude). I am writing today to inform you of a design change to the proposed facility.

In place of a 190-foot tall guyed antenna tower, the facility will instead include a 190-foot tall self-support tower, and a Notice of Amendment detailing this design change has been filed with the PSC. No other changes have been made to the proposal from what was originally proposed in the application filed with the PSC, and the proposed height and location for the facility remain as originally proposed. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at the following address: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2004-00186 in any correspondence sent in connection with this matter.

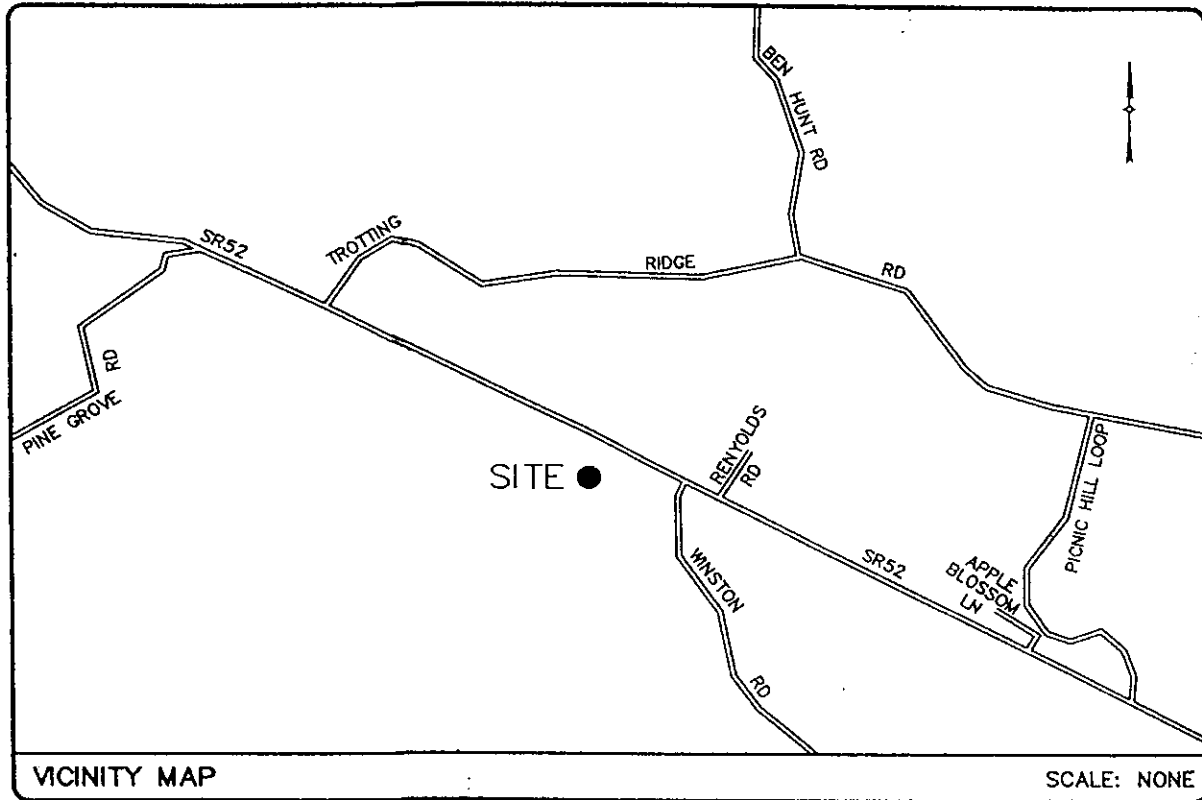
I have attached a map showing the site location for the proposed tower. Cingular's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact me toll free at (800) 516-4293 if you have any comments or questions about this proposal.

Sincerely,  
David A. Pike  
Attorney for BellSouth Mobility LLC,  
d/b/a Cingular Wireless-Kentucky

Enclosure



## Location of Proposed Cingular Wireless "Winston" Site



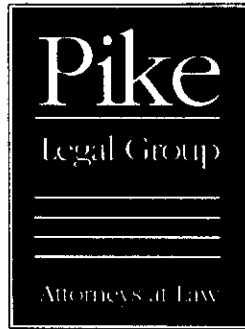
### DIRECTIONS FROM COUNTY SEAT:

FROM IRVINE, TAKE SR 52 WEST APPROX 6.5 MILES TO WINSTON RD. TURN LEFT ON WINSTON ROAD. SITE IS LOCATED ON THE FIRST PROPERTY TO THE RIGHT.

### DIRECTIONS FROM LOUISVILLE:

FROM LOUISVILLE, TAKE I-64 EAST 69 MILES TO I-75 SOUTH. TAKE I-75 SOUTH 21 MILES TO STATE ROAD 876 (EXIT 90). TURN LEFT ONTO STATE ROAD 876 GO 4 MILES TO STATE ROAD 52. TURN LEFT AND CONTINUE ON STATE ROAD 52 FOR 11 MILES TO WINSTON ROAD. TURN RIGHT ON WINSTON ROAD. SITE IS LOCATED ON THE FIRST PROPERTY TO THE RIGHT.

### DIRECTIONS TO SITE



June 17, 2004

**VIA CERTIFIED U.S. MAIL**

Estill County Judge/Executive  
Courthouse  
130 Main Street  
Irvine, KY 40336

RE: Amendment to Cingular Wireless Communications Facility Proposal  
Kentucky Public Service Commission Docket No. 2004-00186

Dear Judge/Executive:

You will recall that I wrote to you on May 19, 2004 concerning an application filed on behalf of BellSouth Personal Communications, LLC and BellSouth Mobility, LLC, d/b/a Cingular Wireless – Kentucky ("Cingular") with the Kentucky Public Service Commission (the "PSC") to construct a new wireless communications facility at 1365 Winston Road, Irvine, Kentucky 40336 (37° 42' 43.37" North latitude, 84° 05' 16.97" West longitude). I am writing today to inform you of a design change to the proposed facility.

In place of a 190-foot tall guyed antenna tower, the facility will instead include a 190-foot tall self-support tower, and a Notice of Amendment detailing this design change has been filed with the PSC. No other changes have been made to the proposal from what was originally proposed in the application filed with the PSC, and the proposed height and location for the facility remain as originally proposed. This facility is needed to provide improved coverage for wireless communications in the area.

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211 Sower Boulevard  
P.O. Box 615  
Frankfort, Kentucky 40602.



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Please feel free to contact me with any comments or questions you may have.

Sincerely,

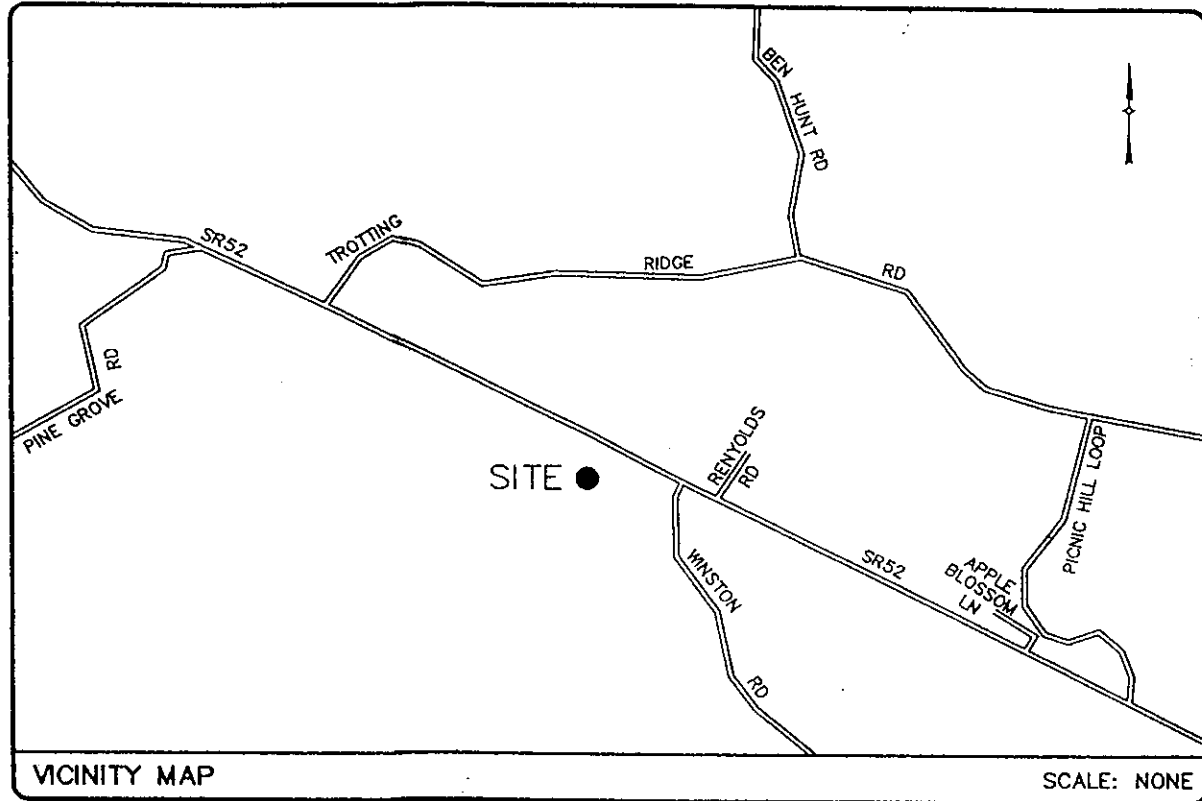
A handwritten signature in black ink, appearing to read "David A. Pike". The signature is fluid and cursive, with the first name "David" being the most prominent.

David A. Pike  
Pike Legal Group, PLLC  
Attorney for BellSouth Personal Communications,  
LLC and BellSouth Mobility, LLC, d/b/a Cingular  
Wireless – Kentucky

Enclosure



## Location of Proposed Cingular Wireless "Winston" Site



### DIRECTIONS FROM COUNTY SEAT:

FROM IRVINE, TAKE SR 52 WEST APPROX 6.5 MILES TO WINSTON RD. TURN LEFT ON WINSTON ROAD. SITE IS LOCATED ON THE FIRST PROPERTY TO THE RIGHT.

### DIRECTIONS FROM LOUISVILLE:

FROM LOUISVILLE, TAKE I-64 EAST 69 MILES TO I-75 SOUTH. TAKE I-75 SOUTH 21 MILES TO STATE ROAD 876 (EXIT 90). TURN LEFT ONTO STATE ROAD 876 GO 4 MILES TO STATE ROAD 52. TURN LEFT AND CONTINUE ON STATE ROAD 52 FOR 11 MILES TO WINSTON ROAD. TURN RIGHT ON WINSTON ROAD. SITE IS LOCATED ON THE FIRST PROPERTY TO THE RIGHT.

### DIRECTIONS TO SITE

**REPLACEMENT EXHIBIT B**  
**[Revised Site Plans, Site Survey and Elevation Drawings]**

# Xcingular<sup>SM</sup>

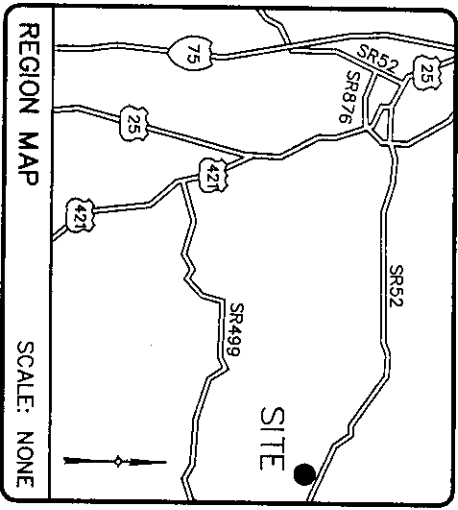
## WIRELESS

**SITE ID: 6037**

1365 WINSTON ROAD  
ESTILL COUNTY  
IRVINE, KENTUCKY 40336

PROPOSED 190' SELF SUPPORT TOWER  
WITH MULTIPLE CARRIERS

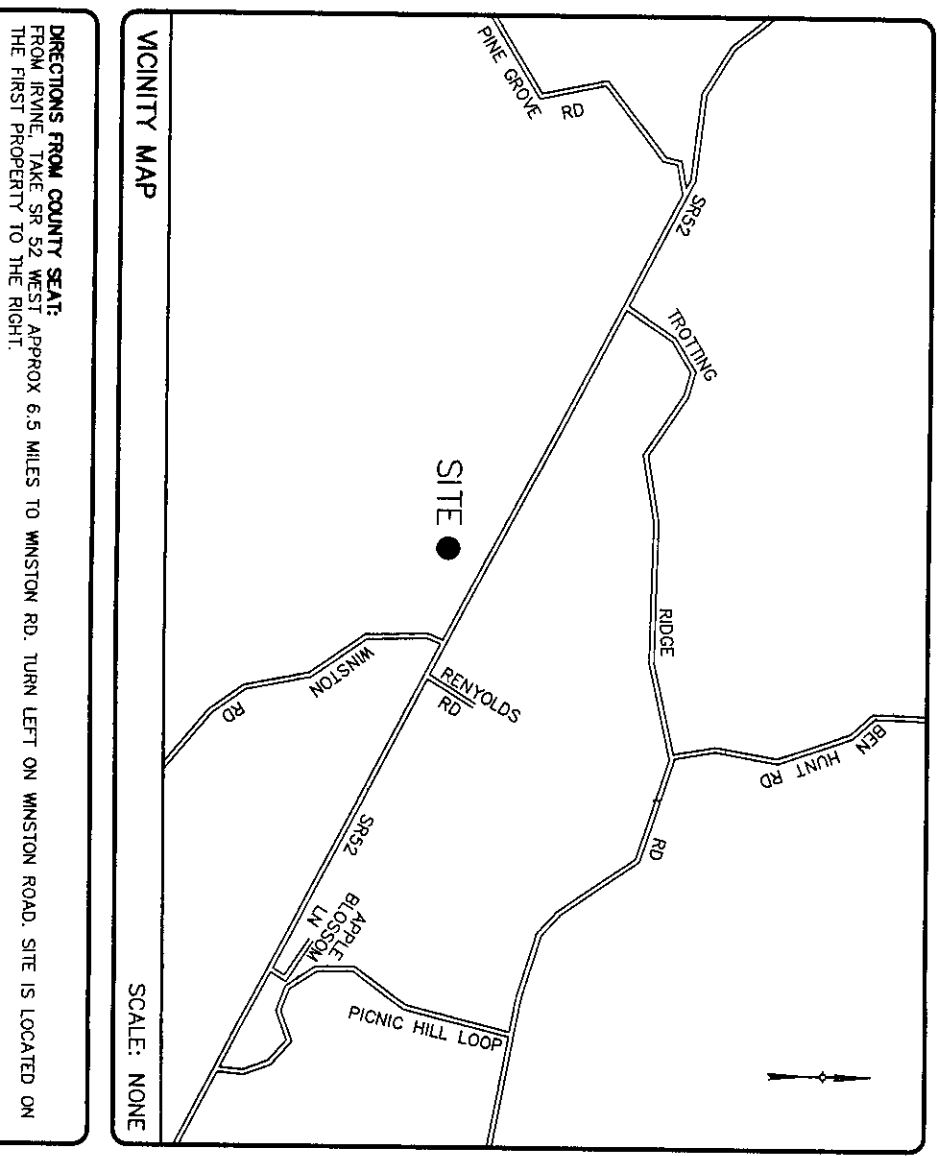
GENERAL DYNAMICS WIRELESS  
1650 LYNDON FARMS COURT  
LOUISVILLE, KENTUCKY 40223  
CONTACT: BRIAN JOHNS  
PHONE: (502) 426-9103  
PROJECT MANAGER



ARCHITECTURAL DESIGN  
ENGINEER

**BTD**

BIRCH, TRAUTWEIN & MIMS, INC.  
3001 TAYLOR SPRINGS DRIVE  
LOUISVILLE, KENTUCKY 40220  
(502) 459-8402 PHONE  
(502) 459-8427 FAX



DIRECTIONS FROM COUNTY SEAT:  
FROM IRVINE, TAKE SR 52 WEST APPROX 6.5 MILES TO WINSTON RD. TURN LEFT ON WINSTON ROAD. SITE IS LOCATED ON THE FIRST PROPERTY TO THE RIGHT.

**UTILITY PROTECTION NOTE**

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY PROTECTION CENTER, PHONE 1-800-752-6007, WHICH WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. ALL NEW SERVICE AND GROUNDING TRENCHES PROVIDE A WARNING TAPE @ 12 INCHES BELOW GRADE.

**SITE NAME**  
WINSTON

**SITE ADDRESS**  
1365 WINSTON RD.  
IRVINE, KY 40336

**1A COORDINATES:**  
LAT: 37° 42' 43.37"  
LONG: 84° 05' 16.97"  
ELEV: 818.07'

**PROPERTY OWNER**  
JOEL & LOIS STEVENSON  
2221 TROTTING RIDGE RD.  
IRVINE, KY 40336  
(606) 723-3342

**APPLICANT**  
BELLSOUTH MOBILITY LLC  
1650 LYNDON FARMS COURT  
LOUISVILLE, KENTUCKY 40223  
CONTACT: CHRIS THARP  
PHONE: (502) 394-7524

**TAX MAP NUMBER**  
14

**PARCEL NUMBER**  
52.01

**LEASE AREA**  
LEASE AREA = 10,000 S.F.

**INDEX OF ZONING DRAWING**

SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET & SHEET
C-1	500' RADIUS VICINITY
C-2	SURVEY PLAN
Z-3	SITE LAYOUT
Z-4	NORTH & SOUTH ELEV.
Z-5	EAST & WEST ELEVATION

**ELECTRIC COMPANY**  
JACKSON ENERGY  
CONTACT: MIKE DENHAM  
PHONE: (606) 287-4111

**SHEET INDEX**

MADISON COUNTY

SUSAN K. HARDY  
GENERAL DELIVERY  
WINSTON, KY 40495

DONNA MARCUM  
75 FRED LANE  
WINSTON, KY. 40495

CHARLES EARL ESTES & JOHNNY ESTES  
10525 N.E. 81ST STREET  
GAINESVILLE, FL 32609

NOTE: THIS DRAWING DOES NOT  
REPRESENT A BOUNDARY SURVEY

GRAPHIC SCALE

200 0 100 200

KY 52

JOEL & LOIS STEVENSON  
2221 TROTting RIDGE ROAD  
IRVINE, KY. 40336

500' RADIUS

1

JOEL & LOIS STEVENSON  
2221 TROTting RIDGE ROAD  
IRVINE, KY. 40336

ZULA B  
3128 PLEASANT  
HAMILTON, OH.

CLAUDE & BARBARA ROSE  
1920 TROTting RIDGE ROAD  
IRVINE, KY. 40336

JOEL & LOIS STEVENSON  
2221 TROTting RIDGE ROAD  
IRVINE, KY. 40336

PROPOSED  
TOWER

DONALD R. & GAIL HARDY  
4245 RICHMOND ROAD  
IRVINE, KY. 40336

CLAUDE STATION ET. AL.  
3861 STILLWELL-BECKET ROAD  
OXFORD, OH 45056

JOEL & LOIS STEVENSON  
2221 TROTting RIDGE ROAD  
IRVINE, KY. 40336

NORTH IS BASED ON THE  
STATE PLANE COORDINATE  
SOUTH ZONE AND WAS DE  
BY COMPUTATION FROM G.  
OBSERVATION ON AUGUST

TRUE NORTH  
-01°00'28.48"

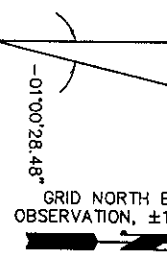
MRS. W.T. AGNES PEARSON  
1410 WINSTON ROAD  
IRVINE, KY. 40336

RANDEL & PAULIN  
1552 WINSTON  
IRVINE, KY.

LINDA SUE HARDY  
60 TROTting RIDGE ROAD  
IRVINE, KY. 40336

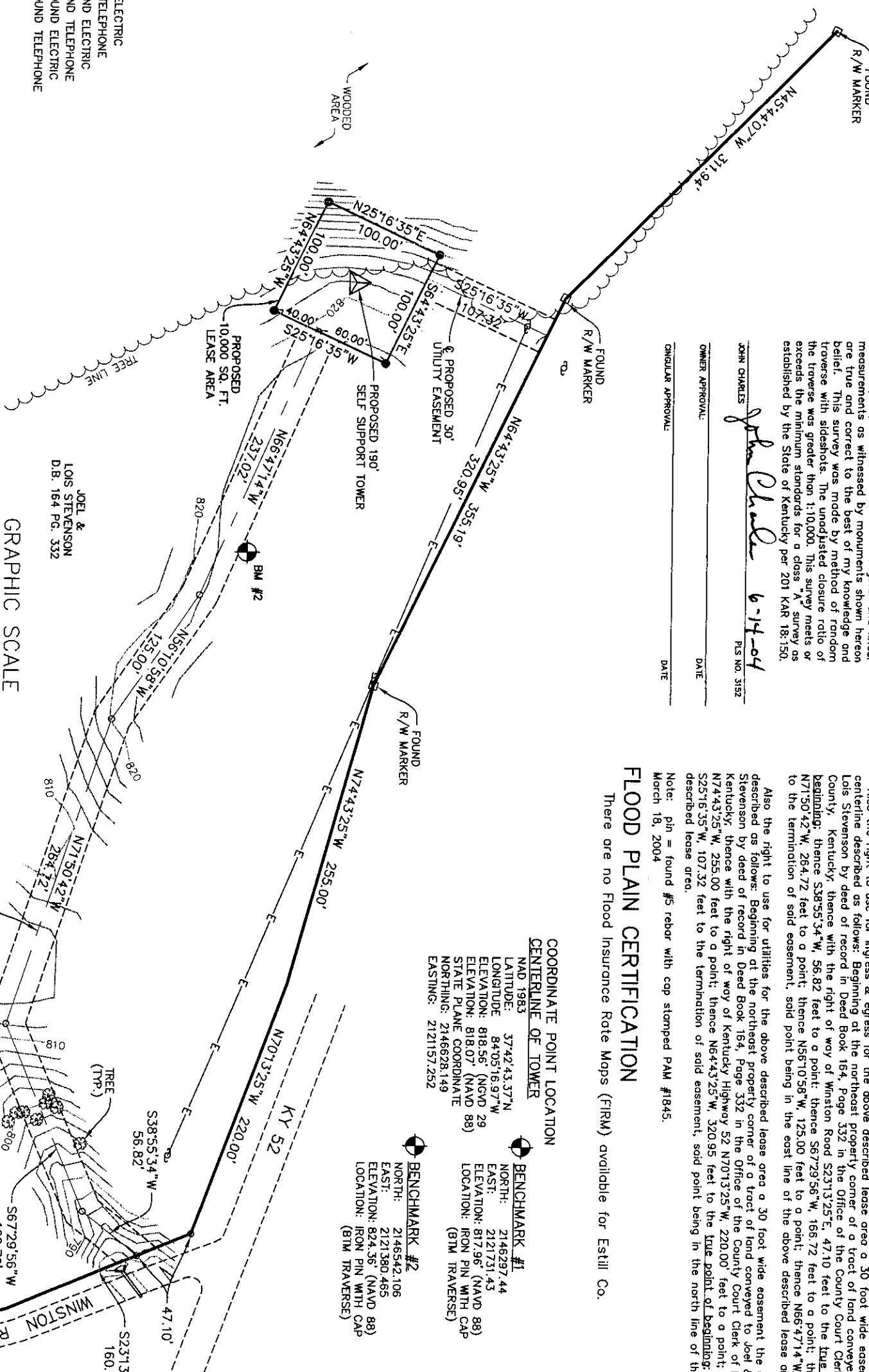
WINSTON ROAD

JOEL & LOIS STEVENSON



NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON AUGUST 9, 2001

- LEGEND**
- E— EXISTING OVERHEAD ELECTRIC
  - T— EXISTING OVERHEAD TELEPHONE
  - UE— EXISTING UNDERGROUND ELECTRIC
  - UT— EXISTING UNDERGROUND TELEPHONE
  - E— PROPOSED OVERHEAD ELECTRIC
  - T— PROPOSED OVERHEAD TELEPHONE
  - UE— PROPOSED UNDERGROUND ELECTRIC
  - UT— PROPOSED UNDERGROUND TELEPHONE
  - X— FENCE LINE
  - P— POWER POLE
  - T/P— TELEPHONE PEDESTAL



**LAND SURVEYOR'S CERTIFICATE**

I hereby certify that this plot and survey were made under my supervision, and that the angular and linear measurements as witnessed by monuments shown hereon are true and correct to the best of my knowledge and belief. This survey was made by method of random traverse with sideshots. The unadjusted closure ratio of the traverse was greater than 1:10,000. This survey meets or exceeds the minimum standards for a class "A" survey as established by the State of Kentucky per 201 KAR 18:150.

OWNER APPROVAL: John Charles 6-14-04  
 PLS NO. 3152

ANGULAR APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

**DESCRIPTION OF PROPOSED LEASE AREA**

Note: All bearings and distances are based on Kentucky State Plane Coordinate System South Zone

Beginning at the northeast property corner of a tract of land conveyed to Joel & Lois Stevenson by record in Deed Book 154, Page 332 in the Office of the County Court Clerk of Estill County, Kentucky; thence the right of way of Winston Road S23°13'25"E, 47.10 feet to a pin; thence S38°55'34"W, 56.82 feet to a pin; thence S67°29'56"W, 166.72 feet to a pin; thence N71°50'42"W, 264.72 feet to a pin; thence N56°12'51"E, 125.00 feet to a pin; thence N66°47'14"W, 237.02 feet to the true point of beginning; thence with the true point of beginning, the next five calls S25°16'35"W, 40.00 feet to a pin; thence N64°43'25"W, 100.00 feet to a pin; thence N25°16'35"E, 100.00 feet to a pin; thence S64°43'25"E, 100.00 feet to a pin; thence S25°16'35"W, 60.00 feet to the true point of beginning, and containing 10,000 square feet.

Also the right to use for ingress & egress for the above described lease area a 30 foot wide easement centerline described as follows: Beginning at the northeast property corner of a tract of land conveyed to Lois Stevenson by deed of record in Deed Book 154, Page 332 in the Office of the County Court Clerk of Estill County, Kentucky; thence with the right of way of Winston Road S23°13'25"E, 47.10 feet to the true point of beginning; thence S38°55'34"W, 56.82 feet to a pin; thence S67°29'56"W, 166.72 feet to a pin; thence N71°50'42"W, 264.72 feet to a pin; thence N56°12'51"E, 125.00 feet to a pin; thence N66°47'14"W, 237.02 feet to the true point of beginning; thence with the true point of beginning, the next five calls S25°16'35"W, 40.00 feet to a pin; thence N64°43'25"W, 100.00 feet to a pin; thence N25°16'35"E, 100.00 feet to a pin; thence S64°43'25"E, 100.00 feet to a pin; thence S25°16'35"W, 60.00 feet to the termination of said easement, said point being in the east line of the above described lease area.

**FLOOD PLAIN CERTIFICATION**

There are no Flood Insurance Rate Maps (FIRM) available for Estill Co.

**COORDINATE POINT LOCATION CENTERLINE OF TOWER**

NAD 1983  
 LATITUDE: 37°42'43.37"N  
 LONGITUDE: 84°05'16.97"W  
 ELEVATION: 818.56' (NGVD 29)  
 ELEVATION: 818.07' (NAVD 88)  
 STATE PLANE COORDINATE  
 NORTHING: 2146628.149  
 EASTING: 2121157.252

**BENCHMARK #1**  
 NORTH: 2146297.44  
 EAST: 2121731.43  
 ELEVATION: 817.96' (NAVD 88)  
 LOCATION: IRON PIN WITH CAP (BTM TRAVERSE)

**BENCHMARK #2**  
 NORTH: 2146542.106  
 EAST: 2121380.465  
 ELEVATION: 824.36' (NAVD 88)  
 LOCATION: IRON PIN WITH CAP (BTM TRAVERSE)

GRAPHIC SCALE

JOEL & LOIS STEVENSON  
 D.B. 154 PG. 332

THE TOWER WILL BE ACCESSED BY A PROPOSED STABILIZED DRIVE FROM AN EXISTING ASPHALT ROADWAY (WINSTON ROAD), A PUBLIC RIGHT OF WAY. THE ACCESS ROAD IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL HIGHWAY/ DEPARTMENT OF TRANSPORTATION STANDARDS. WATER, SANITARY SEWER, AND WASTE COLLECTIONS SERVICES ARE NOT REQUIRED FOR THE PROPOSED DEVELOPMENT.

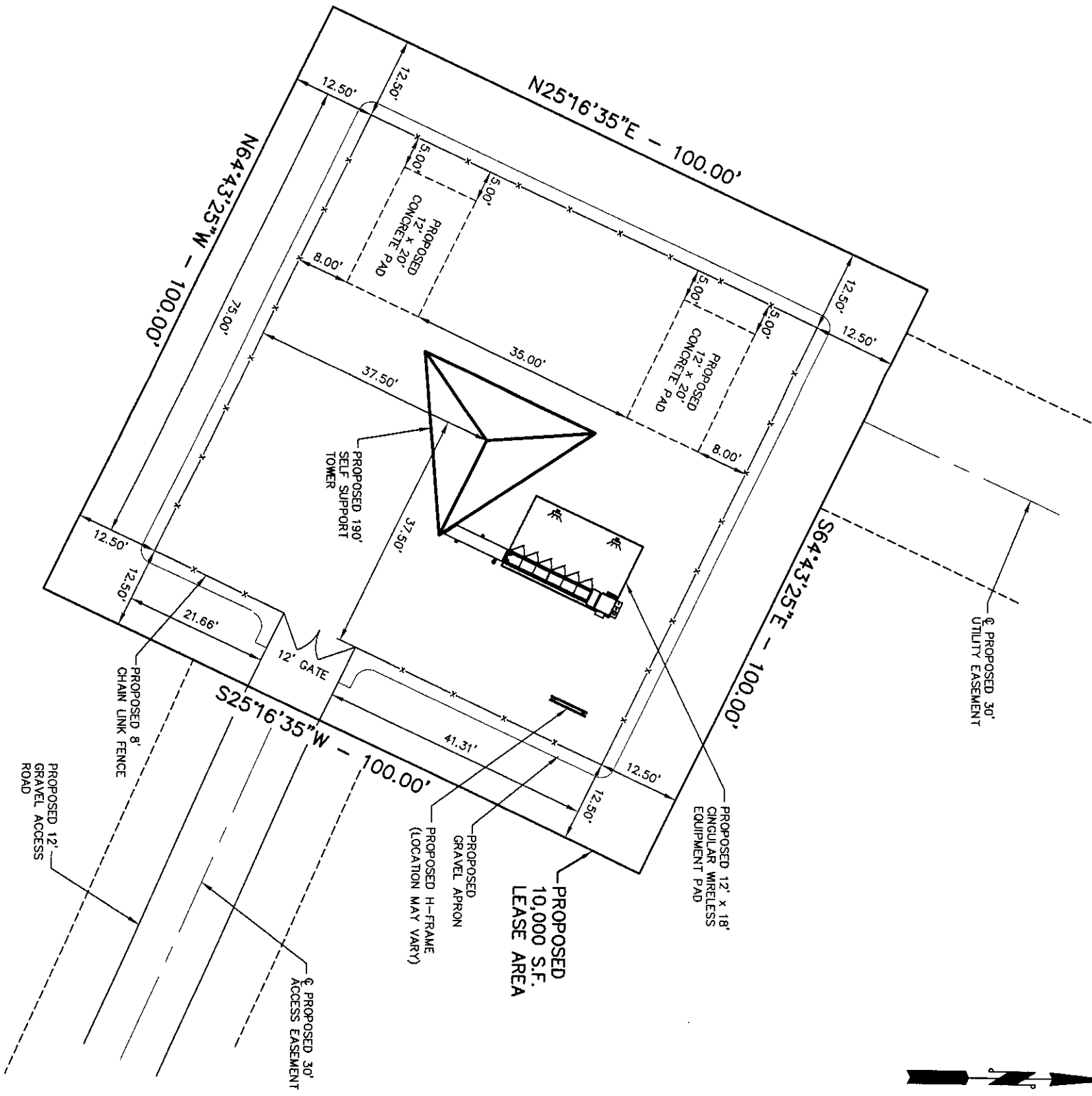
CENTERLINE OF EXISTING TOWER GEOGRAPHIC LOCATIONS:  
 LATITUDE: 37°42'43.37" N 2146628.149 N  
 LONGITUDE: 84°05'16.97" W 2121157.252 E

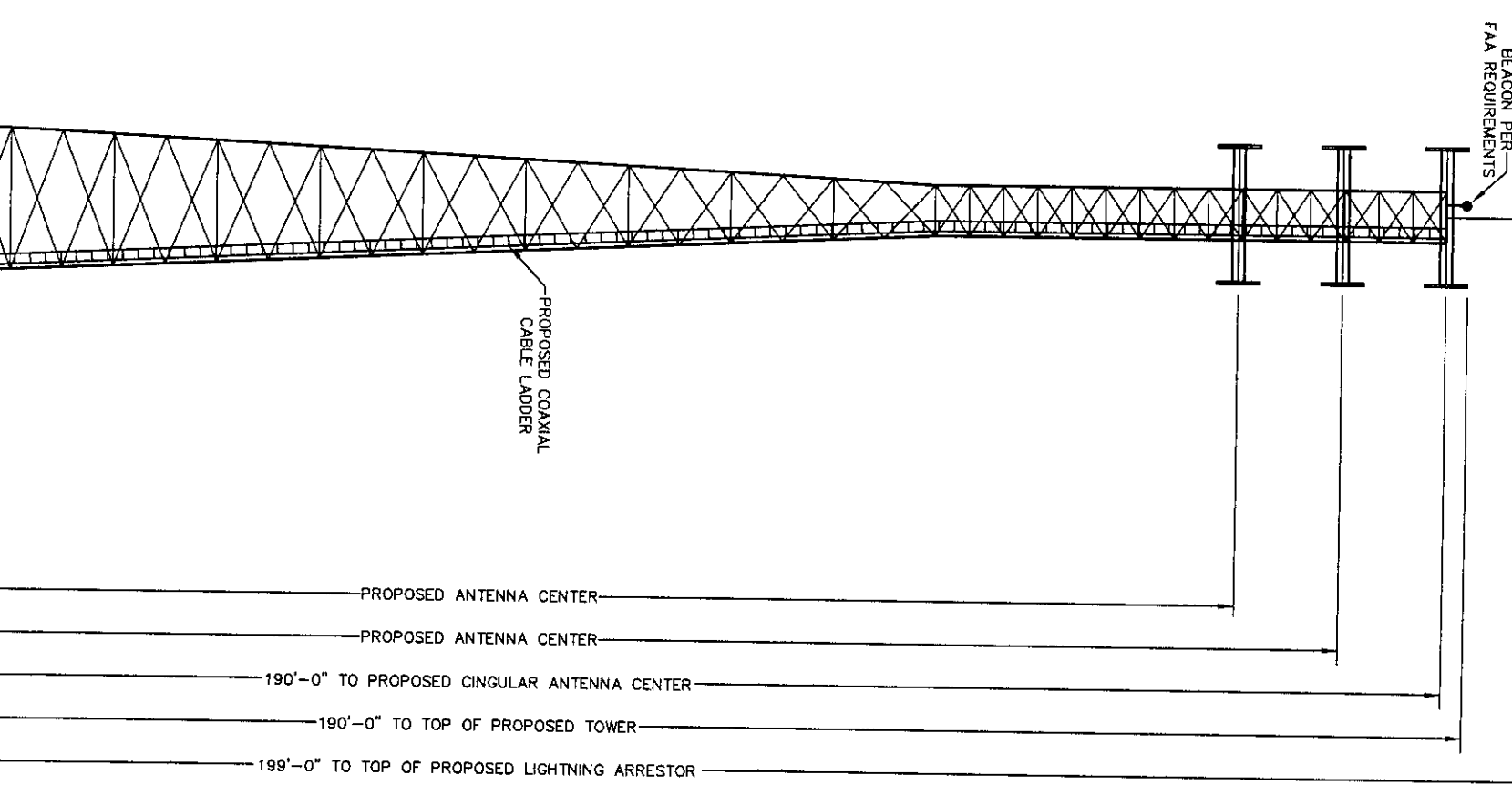
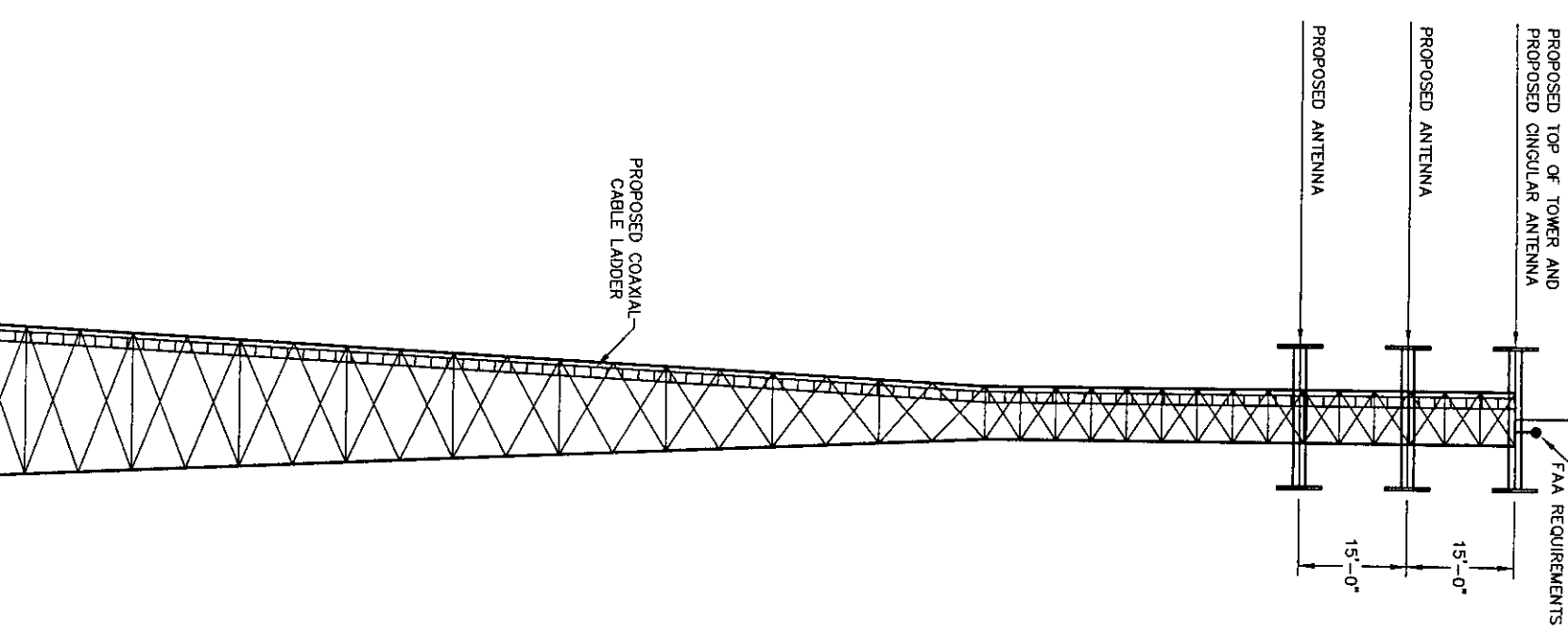
**NOTE:**

1. REMOVE ALL VEGETATION & CLEAN AREA WITHIN LEASE AREA (WHERE REQUIRED)
2. FINISH GRADING TO PROVIDE EFFECTIVE DRAINAGE W/ A SLOPE OF NO LESS THAN ONE EIGHTH (1/8") PER FOOT FLOWING AWAY FROM EQUIP. FOR A MIN. DISTANCE OF SIX FEET (6') IN ALL DIRECTIONS.
3. LOCATE ALL U.G. UTILITIES PRIOR TO ANY CONSTRUCTION
4. COMPOUND FINISHED SURFACES TO BE FENCED

**LEGEND**

—E—	EXISTING OVERHEAD ELECTRIC
—T—	EXISTING OVERHEAD TELEPHONE
—UE—	EXISTING UNDERGROUND ELECTRIC
—UT—	EXISTING UNDERGROUND TELEPHONE
—UE—	PROPOSED UNDERGROUND ELECTRIC
—UT—	PROPOSED UNDERGROUND TELEPHONE
—X—	FENCE LINE
—O—	POWER POLE

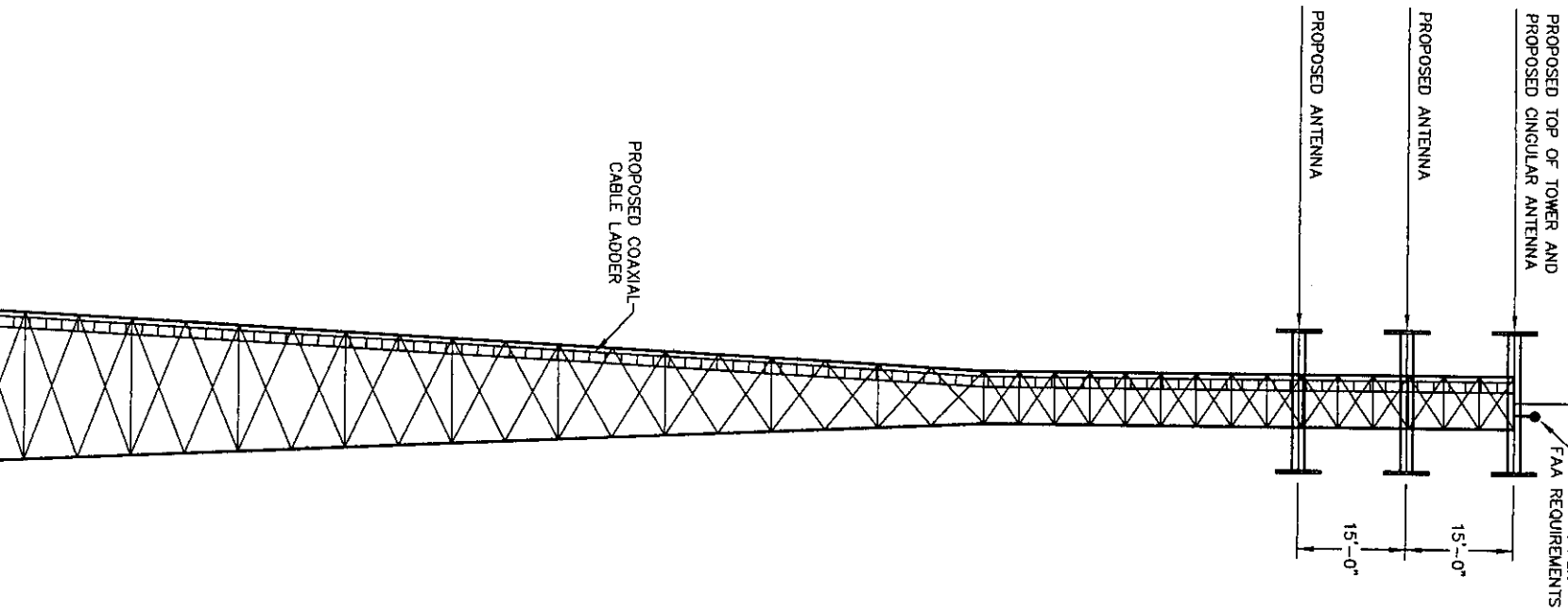




FENCE

FENCE

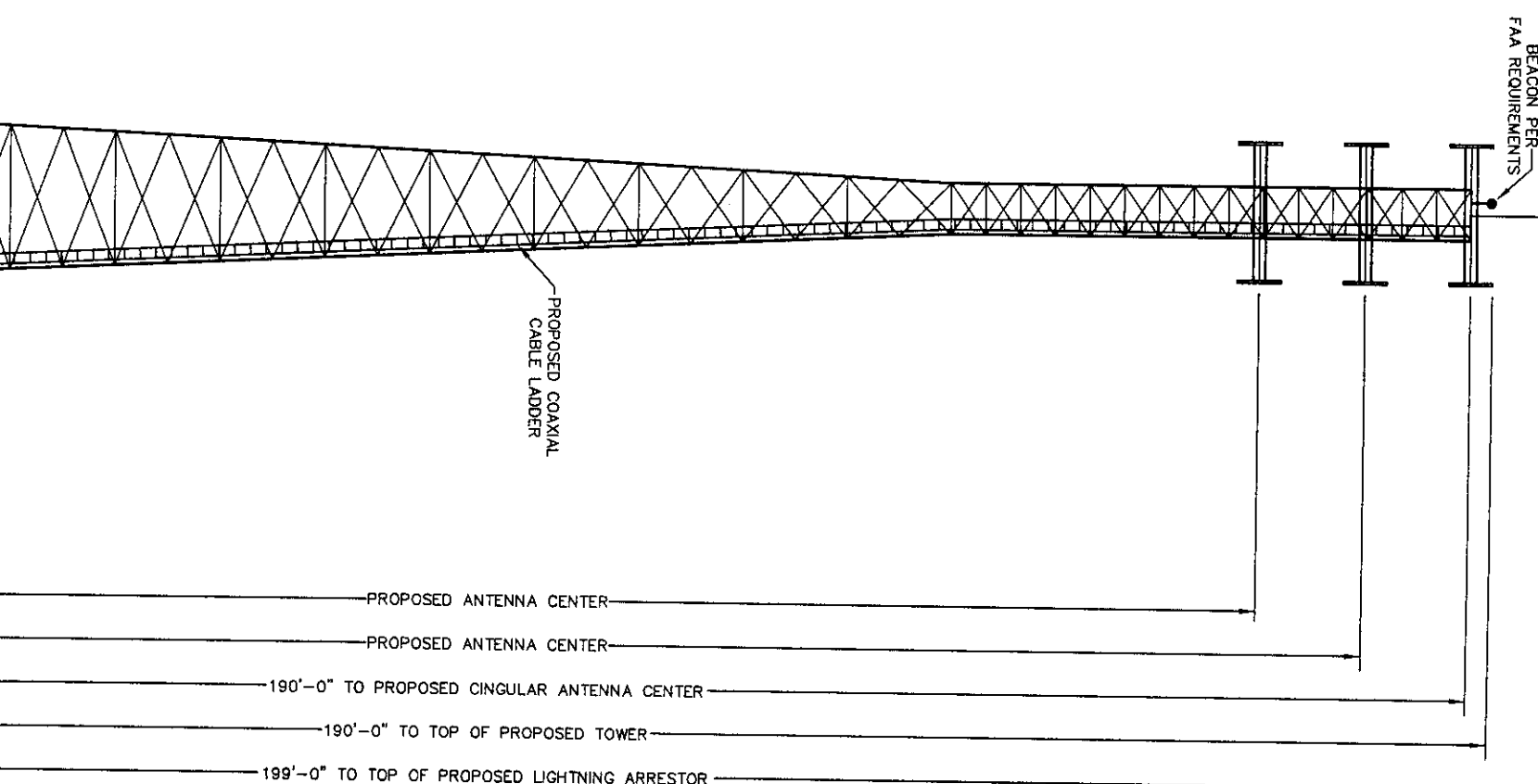
REFER TO TOWER PLANS FOR LOWER DESIGN.



FENCE

FENCE

REFER TO TOWER PLANS FOR TOWER DESIGN.



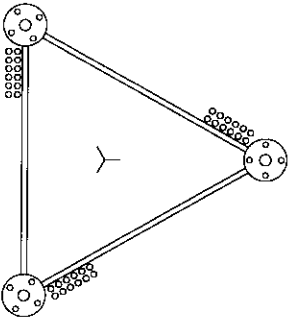


**REPLACEMENT EXHIBIT C**  
**[Revised Tower Foundation and Design Drawings]**

MEMBER CHART

SECTION	ELEVATION	FACE SIZE	LEGS	GIRTS		SECTION WEIGHT (lbs.)
				DIAGONALS	HORIZONTALS	
A	0' - 20'	19.00' - 17.13'	4-1/4	L 3-1/2 x 3-1/2 x 1/4	N/A	NOTE: 3 5500
B	20' - 40'	17.13' - 15.25'	4	L 3 x 3 x 1/4	N/A	NOTE: 3 4825
C	40' - 60'	15.25' - 13.38'	4	L 3 x 3 x 1/4	N/A	NOTE: 3 4375
D	60' - 80'	13.38' - 11.50'	3-3/4	L 2-1/2 x 2-1/2 x 1/4	N/A	NOTE: 3 3780
E	80' - 100'	11.50' - 9.63'	3-1/2	L 2-1/2 x 2-1/2 x 3/16	N/A	NOTE: 3 3050
F	100' - 120'	9.63' - 7.75'	3-1/2	L 2 x 2 x 1/4	N/A	NOTE: 3 3000
G	120' - 140'	7.75' - 5.88'	3-1/4	L 2 x 2 x 3/16	N/A	NOTE: 3 2500
H	140' - 160'	5.88' - 4.00'	3	L 2 x 2 x 3/16	N/A	NOTE: 3 2200
I	160' - 180'	4.00'	2	7/8 S.R.	7/8 S.R.	NOTE: 3 1275
J	180' - 190'	4.00'	1-1/2	3/4 S.R.	3/4 S.R.	NOTE: 3 800

Feeding Distribution Information  
 1) The Tower Structure Is Designed According To The Feeding Distribution Information Provided.

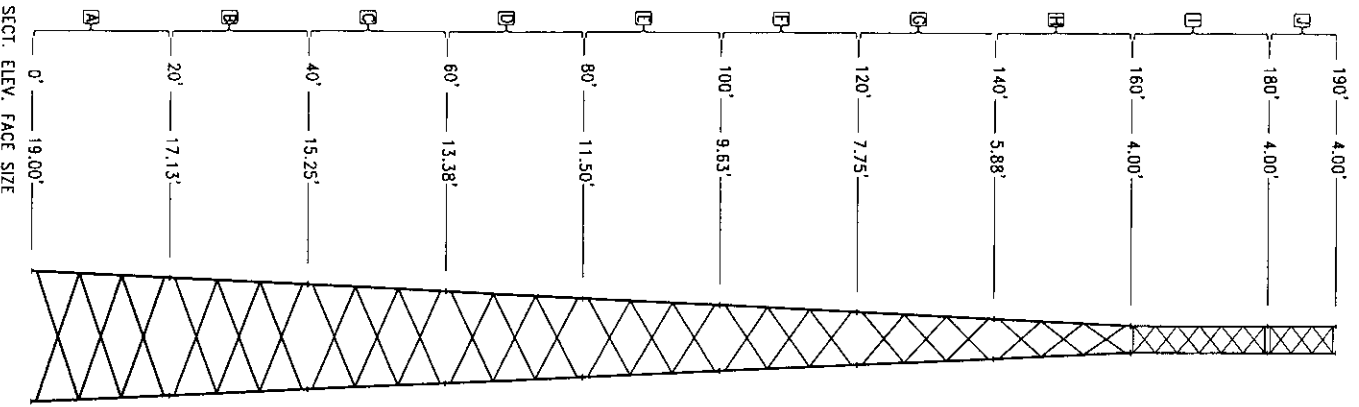


ANTENNA INFORMATION	ELEVATION	LINE
(12) DB854DGBSESX	190'	1-5/8
(12) DB854DGBSESX	175'	1-5/8
(12) DB854DGBSESX	160'	1-5/8

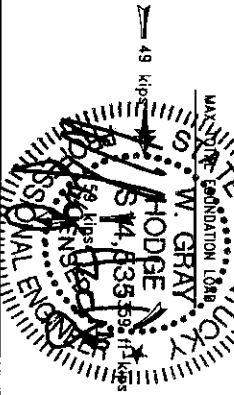
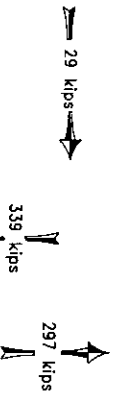
ANTENNA INFORMATION

DESIGN & DRAWING NOTES:

- 1) SOME DETAIL HAS BEEN OMITTED FOR CLARITY OF ILLUSTRATION.
- 2) TOWER STRUCTURE IS DESIGNED IN ACCORDANCE WITH ANSI/EIA-222-F STANDARDS FOR A BASIC WIND SPEED OF 105 MPH WITH 1/2" ICE.
- 3) TOWER DESIGNED FOR STEP-BOLTS AND CLIP-ON WAVEGUIDE LADDERS.
- 4) ALL LEG & LEG FLANGE PLATE MATERIAL IS ASTM A-572 GRADE 50 (FY 2 50 KSI). ALL OTHER MATERIAL IS ASTM A36 (FY 2 36 KSI).
- 5) SECTIONS A - H ARE 3-BAY X-BRACED SECTIONS I - J ARE 6-BAY X-BRACED.
- 6) (6) 1-1/4" Ø ASTM A449 ANCHOR BOLTS REQUIRED PER LEG.



MAX INDIVIDUAL LEG LOADS



REV #	DESCRIPTION	DATE	APP.	DATE

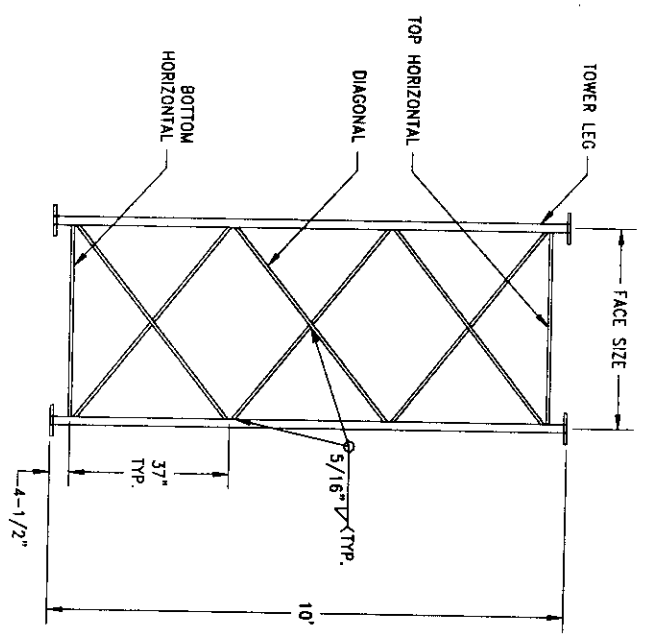
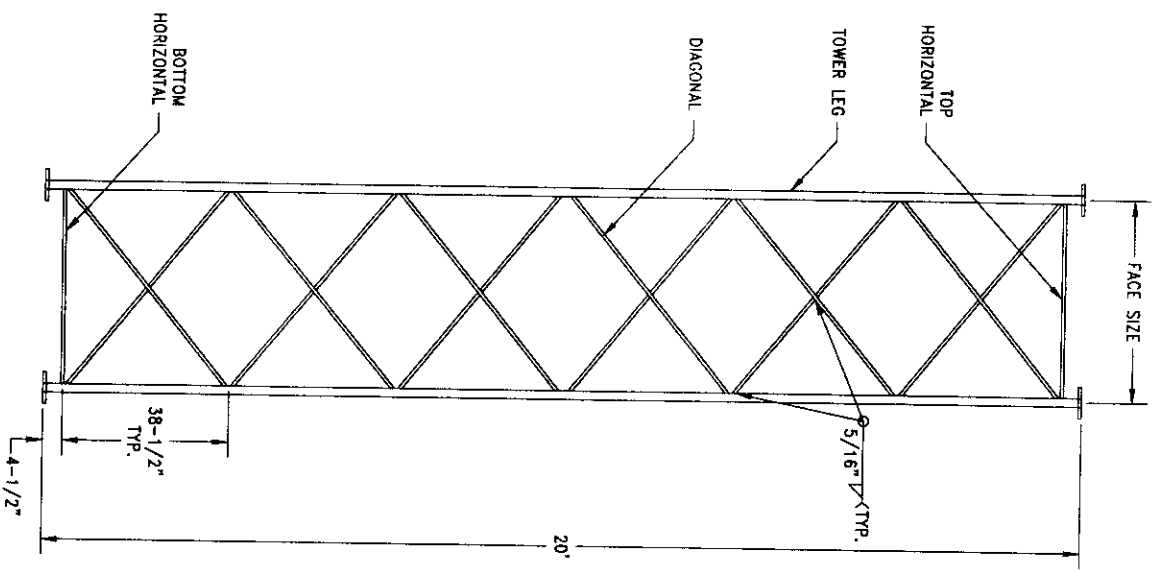
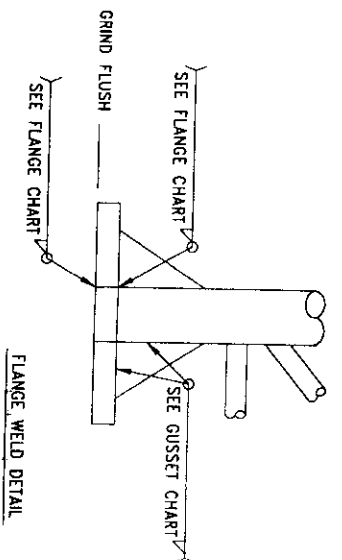
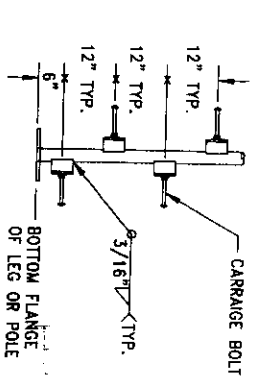
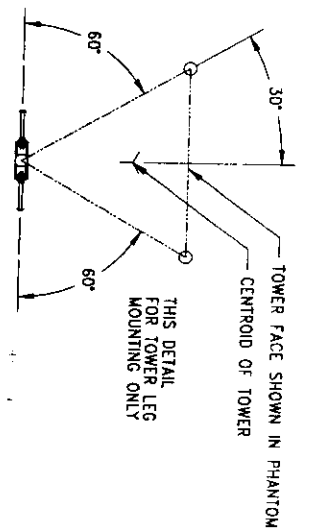
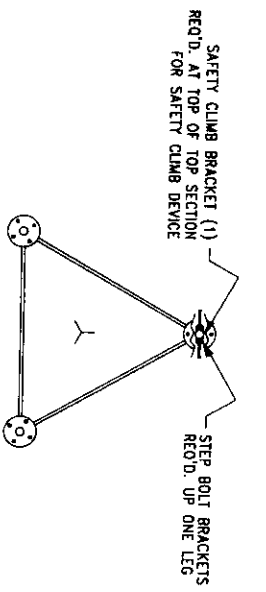
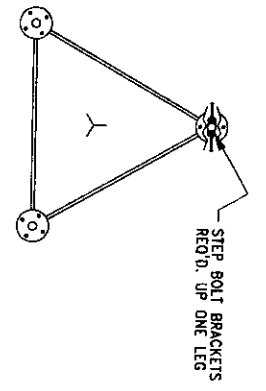
TOLERANCES	FINISH DIMENSIONS
± 1/32" ANGLES ± 1/32"	± 1/32" DIALED HOLES ± 1/32"
± 1/16" BORED HOLES ± 1/16"	

**ELEVATION VIEW & MEMBER INFORMATION**  
**WINSTON, KY.**

PH# (612) 853-0585  
 FAX# (612) 853-0652  
 2655 HIGHWAY 261  
 HENRICH, TN, 37150

DRG NO. S2141T-1  
 DO NOT SCALE DRAWING



- SECTION NOTES:
- 1) SEE MEMBER CHART FOR APPROPRIATE SECTION LABEL, LEG & INNER MEMBER SIZE.
  - 2) SEE FLANGE CHART FOR APPROPRIATE FLANGE SIZE.
  - 3) SOME DETAIL HAS BEEN OMITTED FOR CLARITY OF ILLUSTRATION.

REV #	DESCRIPTION	DATE	APP.	DESIGNER	DATE

TOWER ASPECT	CONTRACTOR	DATE	APPROVAL

TOLERANCES	FINISHES
±.005	
±.010	
±.015	
±.020	
±.030	
±.040	
±.050	
±.060	
±.070	
±.080	
±.090	
±.100	
±.120	
±.150	
±.200	
±.250	
±.300	
±.350	
±.400	
±.450	
±.500	
±.550	
±.600	
±.650	
±.700	
±.750	
±.800	
±.850	
±.900	
±.950	
±.1000	

DRWG NO.	REV
STNDPG-(20-10)	0

<b>GENERAL TOWER</b> PH# (812) 853-0895 FAX# (812) 853-8652 2855 HIRSHMAN 261 NEWBURGH, IN. 47150	<b>WELDED SECTION DETAILS</b>
---	-------------------------------

DO NOT SCALE DRAWING

**PAD**

REBAR SIZE	REBAR LENGTHS	# OF REBAR	TOTAL FT. REQ'D
#9 GRADE 60	27'-6"	114	3135'

**PIER (verts) (Total for 3 Piers)**

REBAR SIZE	REBAR LENGTHS	# OF REBAR	TOTAL FT. REQ'D
#7 GRADE 60	6' - 8"	72	480'

**PIER (ties) (Total for 3 Piers)**

REBAR SIZE	REBAR LENGTHS	# OF REBAR	TOTAL FT. REQ'D
#4 GRADE 60	30" Ø	27	213'

APPROXIMATE CONCRETE REQ'D = 56 yd<sup>3</sup>

**REBAR SPlicing CHART**

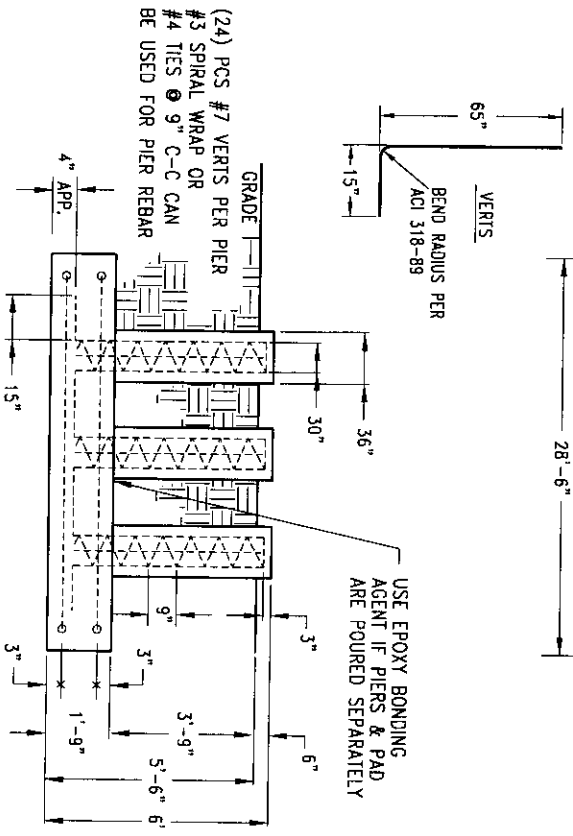
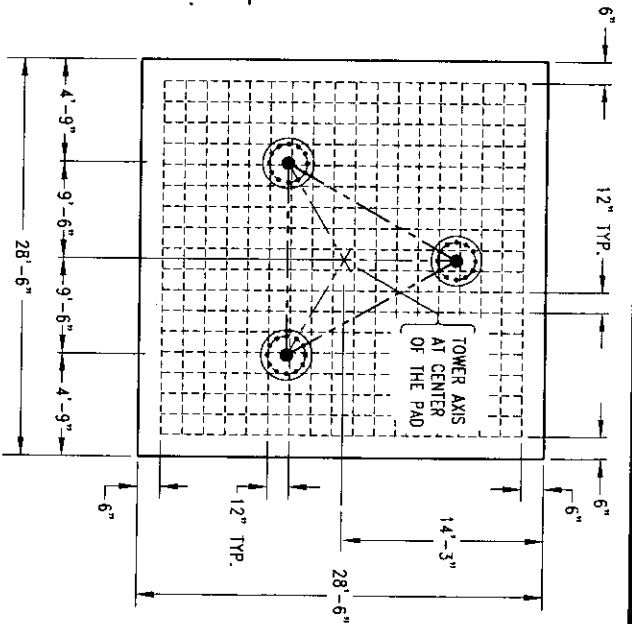
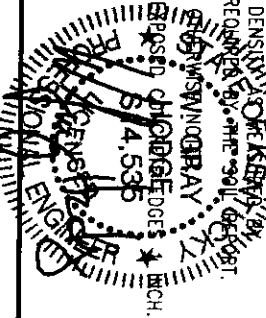
BAR SIZE	SPlice LENGTH
3	15"
4	17"
5	21"
6	26"
7	30"
8	36"
9	46"
10	58"
11	71"

**SPlicing NOTES:**

- 1) STAGGER ALL SPlices.
- 2) SPlice CHART IS BASED ON 3000 PSI CONCRETE.
- 3) SPlice REBAR ONLY WHEN NECESSARY.

**NOTES:**

- 1) ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 301 AND ACI318.
- 2) THIS FOUNDATION IS DESIGNED TO CONFORM ACI 318-99 AND ANSI/EIA-222-F STANDARDS UTILIZING THE SOILS REPORT PREPARED BY TERRACON, DATED 8-30-01. A COPY SHALL BE PROVIDED TO THE FOUNDATION CONTRACTOR. SOIL CONDITIONS THAT DIFFER FROM THOSE DESCRIBED IN THE REPORT SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER/INSPECTOR. ALL COMMENTS OR RECOMMENDATIONS REGARDING CONSTRUCTION TESTING OR CONSTRUCTION MONITORING SHALL BE STRICTLY FOLLOWED.
- 3) ALL CONCRETE SHALL BE 3000 PSI AT 28 DAYS. CYLINDERS SHALL BE PROPERLY CAST WITH COPIES OF THE TEST REPORTS GOING TO THE RESIDENT ENGINEER/INSPECTOR.
- 4) ALL ADMIXTURES MUST BE ADDED SEPARATELY INTO FRESH CONCRETE AND SUFFICIENTLY MIXED. A NON-CORROSIVE CONCRETE SET ACCELERATE MAY BE UTILIZED IN COMPLIANCE WITH ASTM 494 TYPE C. A WATER REDUCING ADMIXTURE MAY BE UTILIZED IN COMPLIANCE WITH ASTM 494 TYPE A.
- 5) ALL BACKFILL SHALL BE PLACED IN 9 INCH LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. ONE KEY SHALL BE PLACED IN EACH LIFT. ALL BACKFILL SHALL BE RECOMPACTED BY THE SOIL CONTRACTOR.
- 6) MINIMUM CONCRETE COVER SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.
- 7) CROWN TOP OF PIER FOR DRAINAGE AND CHAMFER ALL CORNERS TO A MINIMUM OF 1/4" RADIUS.
- 8) ROCK MAY BE ENCOUNTERED.



REV #	DESCRIPTION	DATE	APP	BY	CHECK	DATE

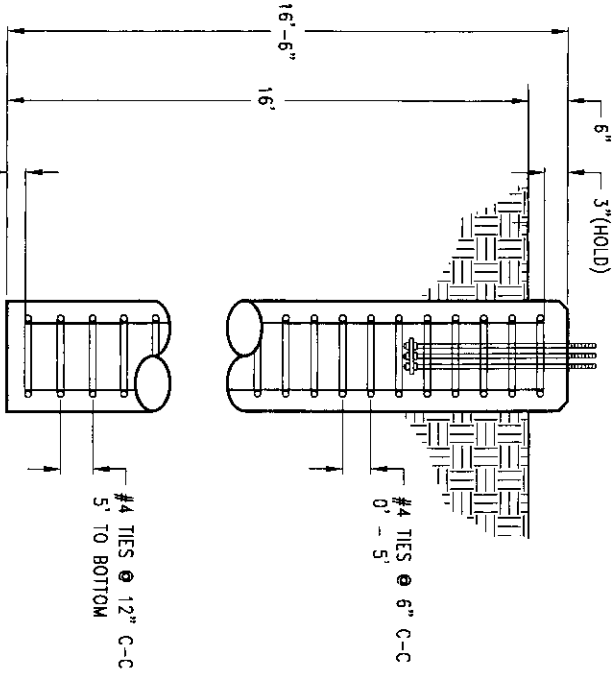
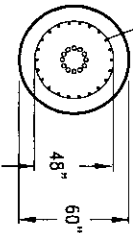
  

DESIGNED BY	DATE	SCALE
CHECKED BY	DATE	
APPROVED BY	DATE	

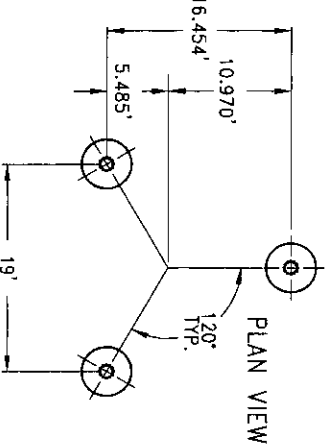
TOLERANCES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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±.015	
±.020	
±.030	
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±.050	
±.060	
±.070	
±.080	
±.090	
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VERTICAL REBAR EQUALLY SPACED  
SEE REBAR CHART FOR VERTICAL  
REBAR REQUIRED.



REBAR SPlicing CHART

BAR SIZE	SPlice LENGTH
3	15"
4	17"
5	21"
6	26"
7	30"
8	35"
9	40"
10	45"
11	50"



SPlicing NOTES: HODGE

- 1) STAGGER ALL LIFTS 14, 935
- 2) SPlice CHART IS BASED ON 3000 PSI CONCRETE.
- 3) SPlice REBAR

REBAR CHART (1)-CAISSON

REBAR	REBAR SIZE	REBAR LENGTHS	REBAR DIA.	PCS. OF REBAR	TOTAL FT.
VERTS	#9 GRADE 60	16'	N/A	24	384'
TIES	#4 GRADE 60	N/A	48" ø	21	264'

REBAR CHART (3)-CAISSONS

REBAR	REBAR SIZE	REBAR LENGTHS	REBAR DIA.	PCS. OF REBAR	TOTAL FT.
VERTS	#9 GRADE 60	16'	N/A	72	1152'
TIES	#4 GRADE 60	N/A	48" ø	63	792'

APPROXIMATE CONCRETE REQ'D PER CAISSON = 12 YD<sup>3</sup>  
TOTAL CONCRETE = 36 YD<sup>3</sup>

NOTES:

- 1) ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 301 AND ACI318.
- 2) THIS FOUNDATION IS DESIGNED TO CONFORM ACI 318-99 AND ANSI/EIA-222-F STANDARDS UTILIZING THE SOILS REPORT PREPARED BY TERRACON, DATED 8-30-01. A COPY SHALL BE PROVIDED TO THE FOUNDATION CONTRACTOR. SOIL CONDITIONS THAT DIFFER FROM THOSE DESCRIBED IN THE REPORT SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER/INSPECTOR. ALL COMMENTS OR RECOMMENDATIONS REGARDING CONSTRUCTION TESTING OR CONSTRUCTION MONITORING SHALL BE STRICTLY FOLLOWED.
- 3) ALL CONCRETE SHALL BE 3000 PSI AT 28 DAYS. CYLINDERS SHALL BE PROPERLY CAST WITH COPIES OF THE TEST REPORTS GOING TO THE RESIDENT ENGINEER/INSPECTOR.
- 4) ALL ADMIXTURES MUST BE ADDED SEPARATELY INTO FRESH CONCRETE AND SUFFICIENTLY MIXED. A NON-CORROSIVE CONCRETE SET ACCELERATE MAY BE UTILIZED IN COMPLIANCE WITH ASTM 494 TYPE C. A WATER REDUCING ADMIXTURE MAY BE UTILIZED IN COMPLIANCE WITH ASTM 494 TYPE A.
- 5) ALL BACKFILL SHALL BE PLACED IN 9 INCH LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AS MEASURED BY ASTM D-698 UNLESS MORE STRINGENT COMPACTION IS REQUIRED BY THE SOIL REPORT.
- 6) MINIMUM CONCRETE COVER SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.
- 7) CROWN TOP OF PIER FOR DRAINAGE AND CHAMFER ALL EXPOSED CONCRETE EDGES 1 INCH.
- 8) ROCK MAY BE ENCOUNTERED.

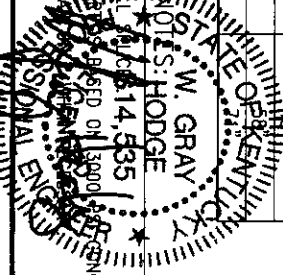
REV #	DESCRIPTION	DATE	BY	SCALE	DATE

**CENTRAL TOWER**  
 A MEMBER COMPANY  
 PH# (812) 853-0595  
 FAX# (812) 853-6652  
 2855 HIGHWAY 281  
 NEWBURGH, IN. 47630

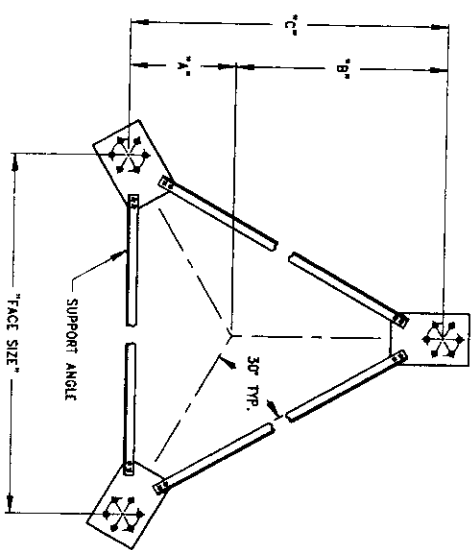
**CAISSON FOUNDATION DESIGN (OPTION #2)**  
 WINSTON, KY.

TITLE: S2141T-F2  
 DWG NO. 0

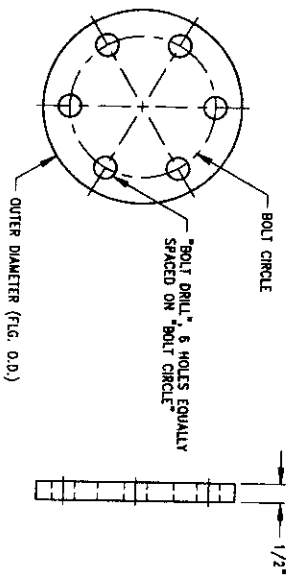
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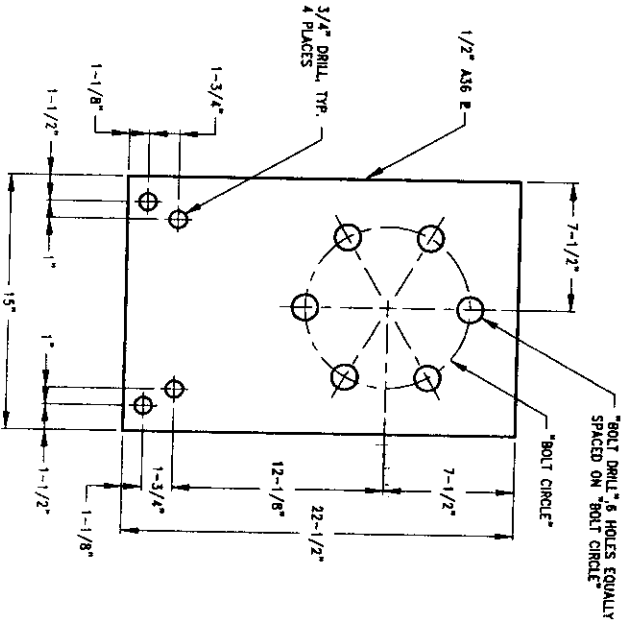
TEMPLATE ASSEMBLY



BEARING PLATE DETAIL



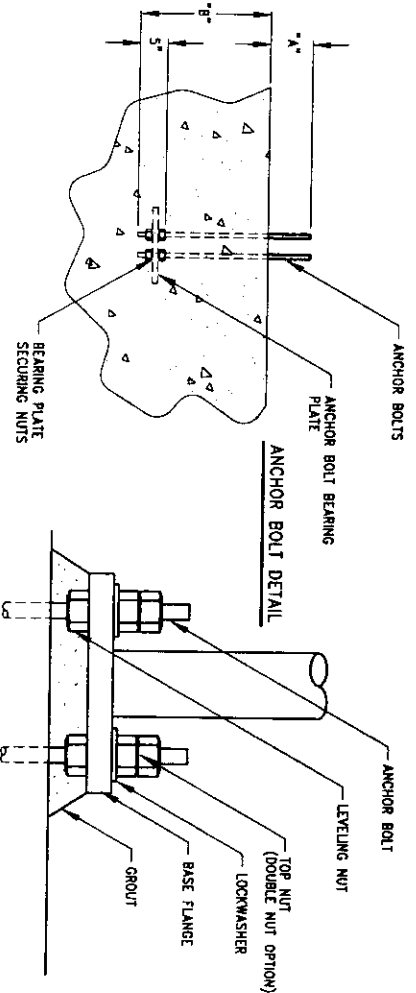
SECURING PLATE DETAIL



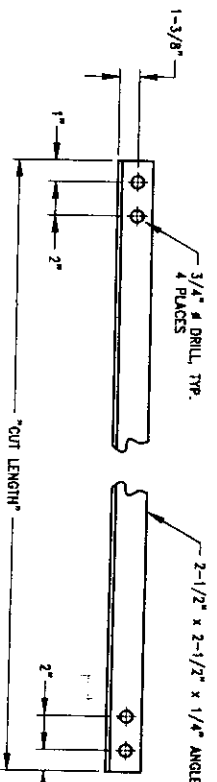
VARIABLE DIMENSIONS FOR TEMPLATE ARE ON THE TEMPLATE DESIGN CHART PRECEDING THIS PAGE

ANCHOR BOLT INSTALLATION NOTES:

- 1) POSITION AND ATTACH ANCHOR BOLT ASSEMBLIES IN TEMPLATE.
- 2) SECURE ANCHOR BOLTS AND REBAR IN FORMS BEFORE POURING CONCRETE.
- 3) SET TOWER USING LEVELING BOLTS TO PLUMB.
- 4) AFTER LEVELING, GROUT UNDER FLANGES USING HIGH STRENGTH NONSHRINKING GROUT.



SUPPORT ANGLE DETAIL



REV #	DESCRIPTION	DATE	APP.	DATE
1	INITIAL	2-8-94		

REV #	DESCRIPTION	DATE	APP.	DATE
1	INITIAL	2-8-94		

**6-HOLE TEMPLATE DESIGN**

6-TEMPLATE

DO NOT SCALE DRAWING

0

PH# (812) 853-0395  
 FAX# (812) 853-6522  
 2825 HIGHWAY 261  
 NEWBURGH, IN 47230

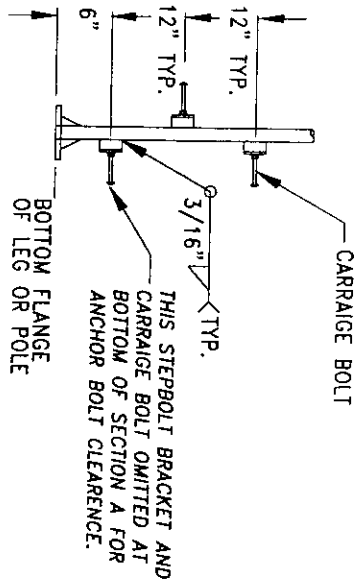
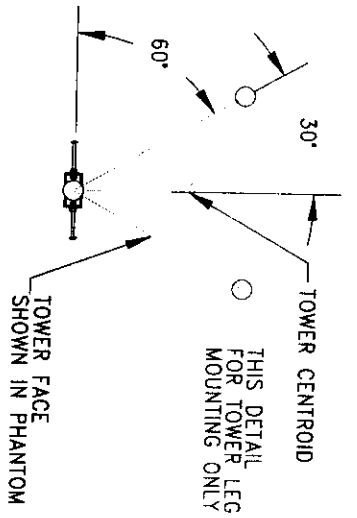




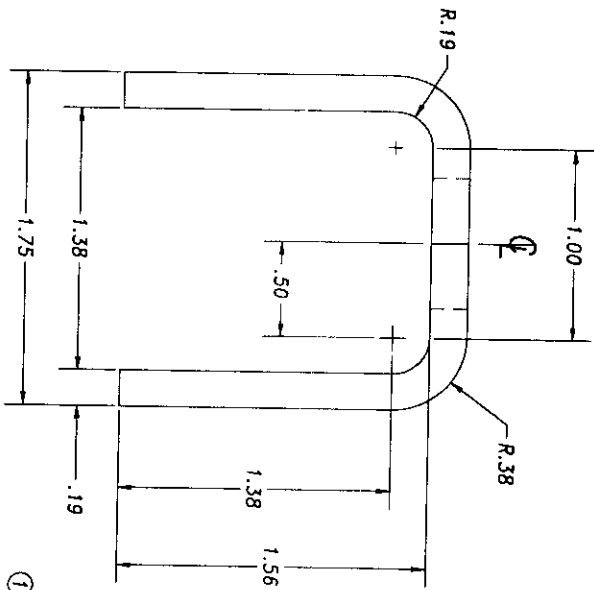
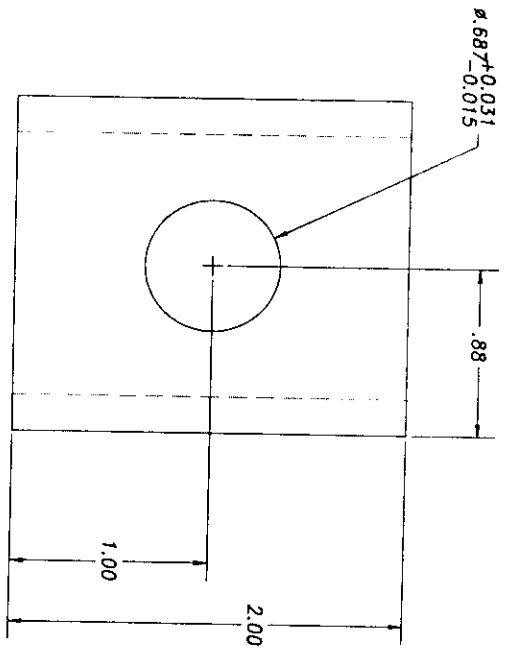
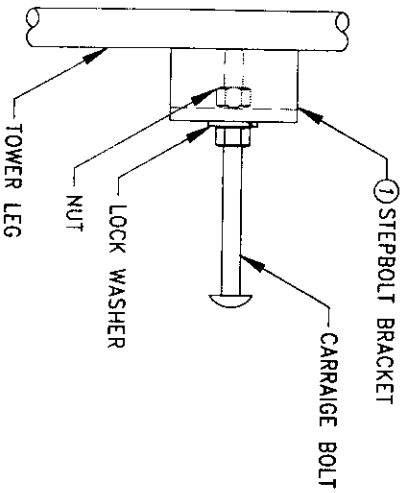




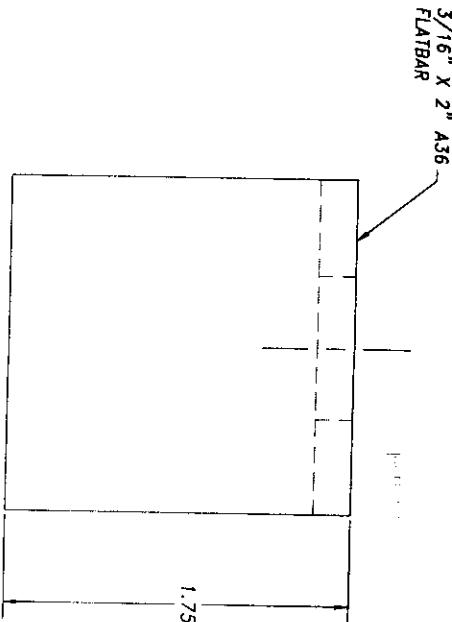




CARRIAGE BOLT ASSEMBLY



STEPBOLT BRACKET



REV. #	DESCRIPTION	DATE	APP.	DESIGN	DATE

**CENTRAL TOWER**  
 A TOWERING COMPANY  
 PH# (612) 833-0395  
 FAX# (612) 833-8652  
 2855 HIGHWAY 281  
 NEWBURGH, IN. 47550

**CARRIAGE BOLT ASSEMBLY (TOWER LEG)**  
 DWG. NO. LA97M  
 REV. B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
 TOLERANCES: .002 3/32" ANGLES 2° .002 1/16" BURNED HOLES #1/16"

THIS DRAWING IS THE PROPERTY OF CENTRAL TOWER. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED ON THE DRAWING. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF CENTRAL TOWER IS PROHIBITED.

DO NOT SCALE DRAWING



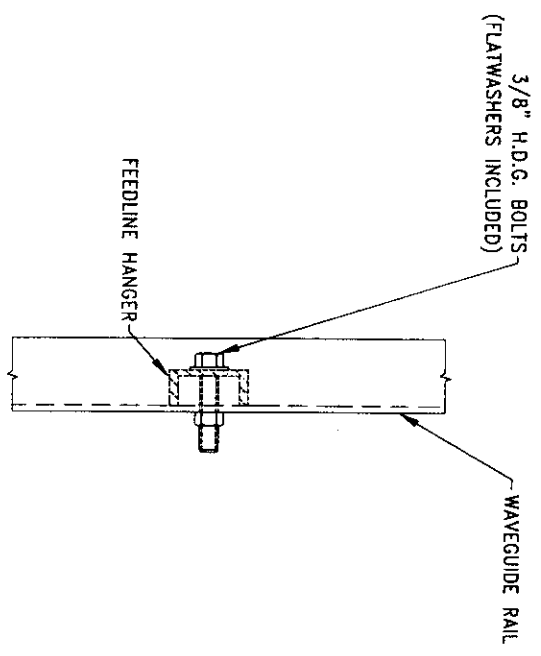
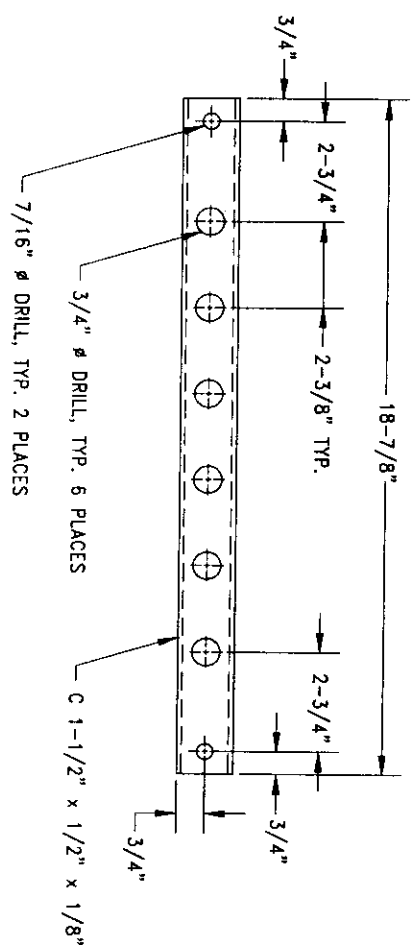












SPECIAL NOTE: TO BE USED FOR CLIP-ON STYLE WAVEGUIDE LADDER ONLY.

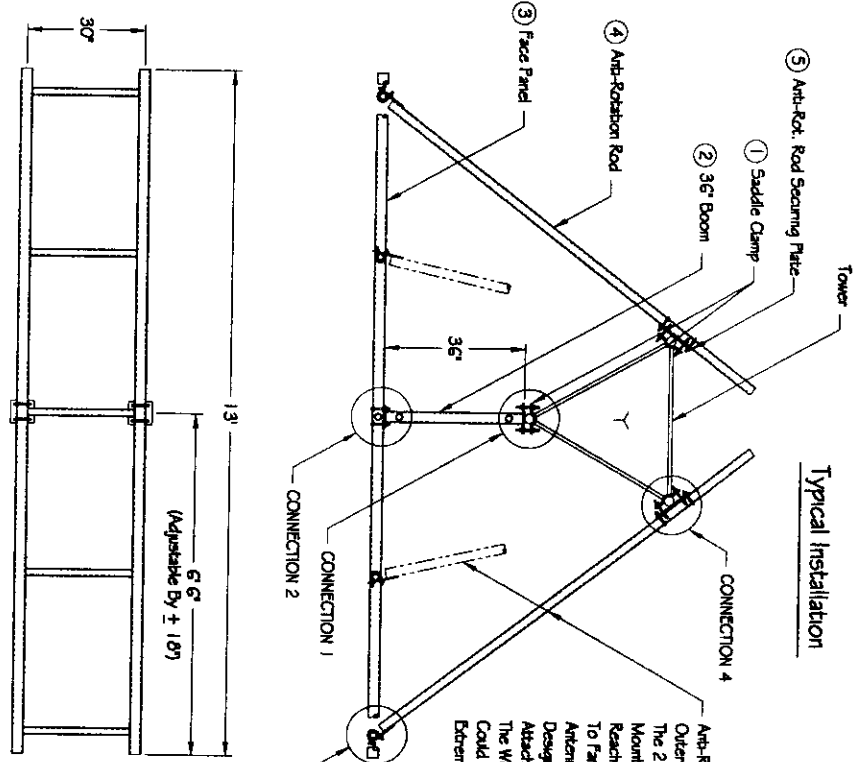
REV #	DESCRIPTION	DATE	APP.	DESIGN	DATE

<b>TOLERANCES</b> XX 3/32" ANGLES 2" XXX 1/16" BORED HOLES 1/16"		<b>FINISHES OF DIMENSIONS</b> ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED	
<b>COMPANY INFORMATION</b> IT IS TO BE USED ONLY FOR THE PURPOSES INTENDED AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE COMPANY.		<b>PROJECT NO.</b> LA174	
<b>DATE</b> 2-11-02		<b>REV</b> 0	

**CENTRAL TOWER**  
 1917 (817) 833-0595  
 2855 HIGHWAY 28  
 NEWBURN, N.C. 27830

DO NOT SCALE DRAWING

**Typical Installation**



Anti-Rot. Rods Can Be Attached To Either Of The 2 Outer Vertical Pipes On Face Frame And To Either Of The 2 Tower Legs Opposite The 36\"/>

**STEEL PARTS**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1*	SC-125575	Saddle Clamp For 1-1/4" - 5-3/4" Round Leg	6
2	BMFF-30H-36L	36" Boom	1
3	FF-30H-13L	13" Face Panel	1
4	ARRF-2472	Anti-Rot. Rod For 2 - 6" Tower Face	2
5*	ARR-FF-01	Anti-Rotation Rod Securing Plate	2

**HARDWARE**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	TRG50X600	1/2" x 6" H.D.G. Threaded Rod	12
2	UB50X350	1/2" x 3-1/2" c-c x 4-3/4" w/ A-36 U-Bolts	4
3	UB50X250	1/2" x 2-1/2" c-c x 3-3/4" w/ A-36 U-Bolts	8
4	NU506	1/2" H.D.G. Nuts	48
5	WL506	1/2" H.D.G. Lockwashers	48
6	WF506	1/2" H.D.G. Flatwashers	32

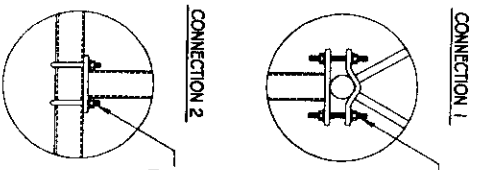
\*\* Flatwashers Are To Be Used At All Slotted Hole Locations !! \*\*

**WEIGHT & ENGINEERING INFORMATION**

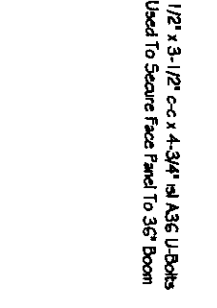
KIT NO.	WEIGHT (lbs.)	DESCRIPTION	Calc (56, Ft.)
USG13-3072	375	13' Gate Mount	1236

**KIT USE INFORMATION**

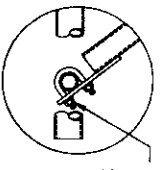
- 1.) This Kit is Designed To Withstand The Loading From Four Panel Antennas @ 110 mph.
- 2.) Will Mount To Any Straight Section 2.5" - 6" Face With 1-1/4" thru 5-3/4" Dia. Round Leg.
- 3.) Antenna Mounting Pipes Not Included !
- 4.) Steel Parts Indicated Above With An \* \* Will Be Packed With The Hardware.



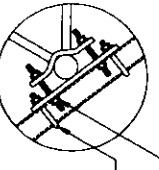
**CONNECTION 1**  
1/2" x 6" H.D.G. Threaded Rod Used With Saddle Clamp To Secure 36" Boom To Tower Legs



**CONNECTION 2**  
Used To Secure Face Panel To 36" Boom



**CONNECTION 3**  
1/2" x 2-1/2" c-c x 3-3/4" w/ A36 U-Bolts Used To Secure Anti-Rotation Rods To Face Panel



**CONNECTION 4**  
1/2" x 6" H.D.G. Threaded Rod Used With Saddle Clamp To Secure Anti-Rot. Rod Securing Plate Tower Legs

REV #	DESCRIPTION	DATE	APP.	DRWING	DATE

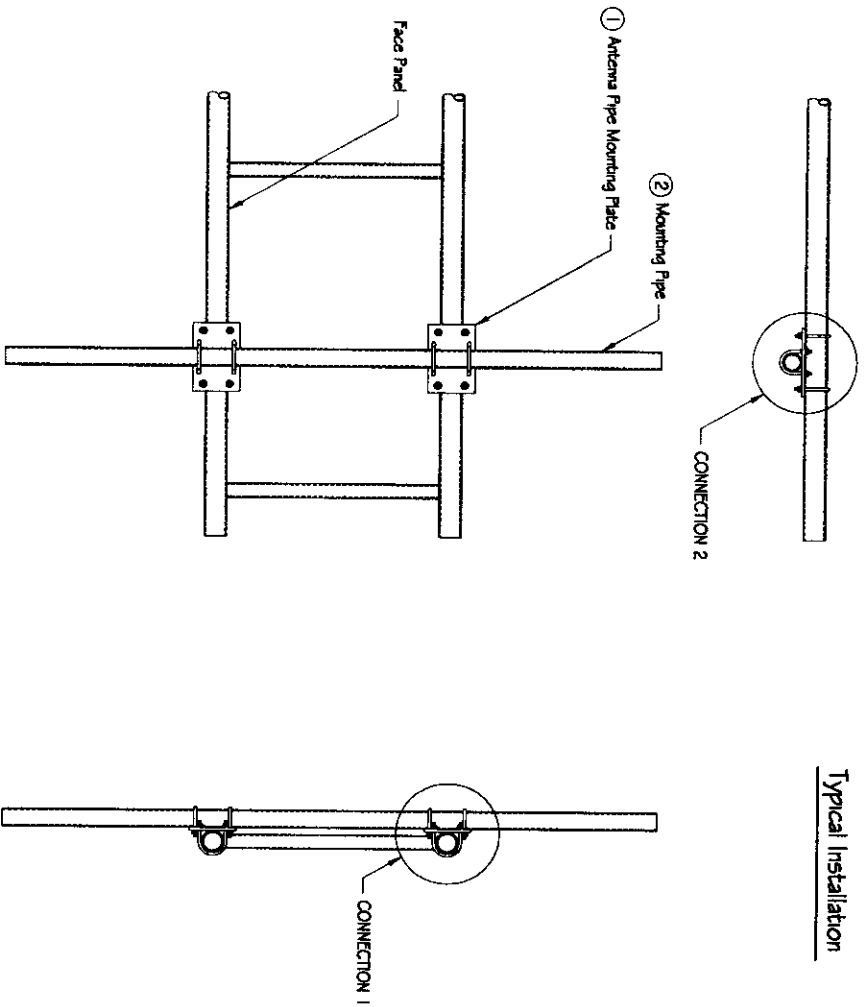
**UNIVERSAL 13' GATE MOUNT**

PH# (612) 853-0995  
 FAX# (612) 853-8652  
 2855 HIGHWAY 261  
 NEWBURGH, IN. 47630

USG13-3072

DO NOT SCALE DRAWING

Typical Installation



STEEL PARTS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1*	AMP-2-3-IT	Antenna Pipe Mounting Plate	2
2	P2040-96	2" Sch 40 x 96" Long Antenna mounting Pipe	1

HARDWARE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	UB372350	3/8" x 3-1/2" c-c x 4-1/2" d1 A-36 U-Bolts	4
2	UB372300	3/8" x 3" c-c x 4" d1 A-36 U-Bolts	4
3	NL37G	3/8" H.D.G. Nuts	16
4	WL37G	3/8" H.D.G. Lockwashers	16
5	WF37G	3/8" H.D.G. Flatwashers	16

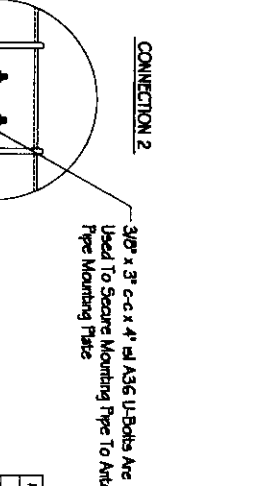
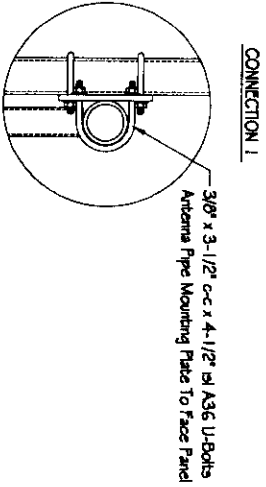
\*\* Flatwashers Are To Be Used At All Slotted Hole Locations !! \*\*

WEIGHT & ENGINEERING INFORMATION


KIT NO.	WEIGHT (lbs.)	DESCRIPTION	Calc (5q, Ft.)
SP30-2096	42	2" Sch 40 x 96" Long Pipe	.75

KIT USE INFORMATION

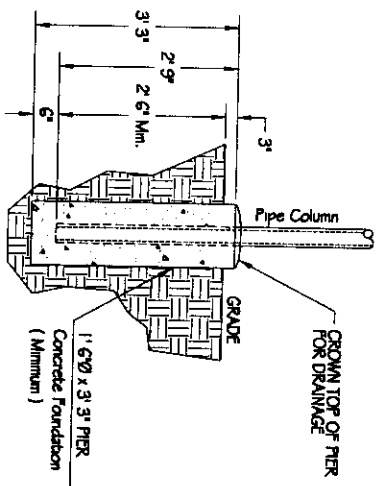
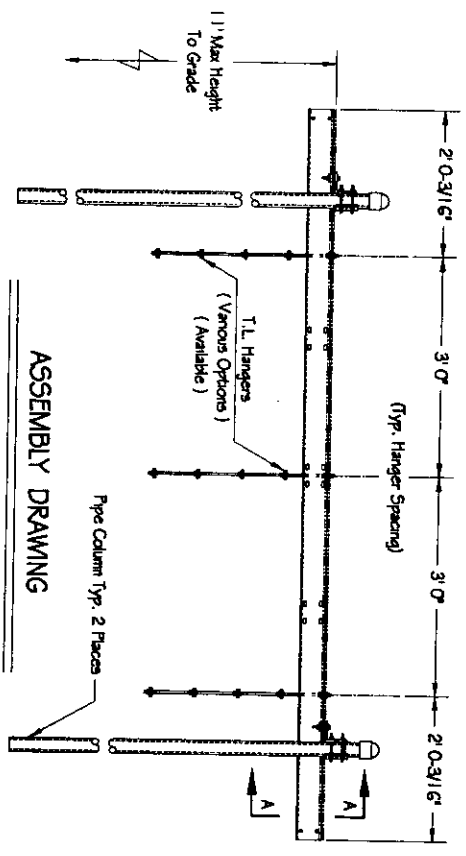
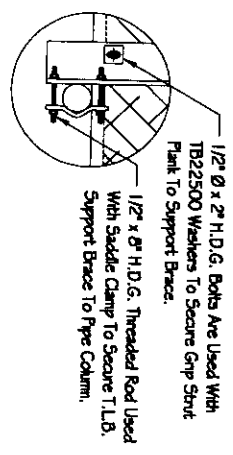
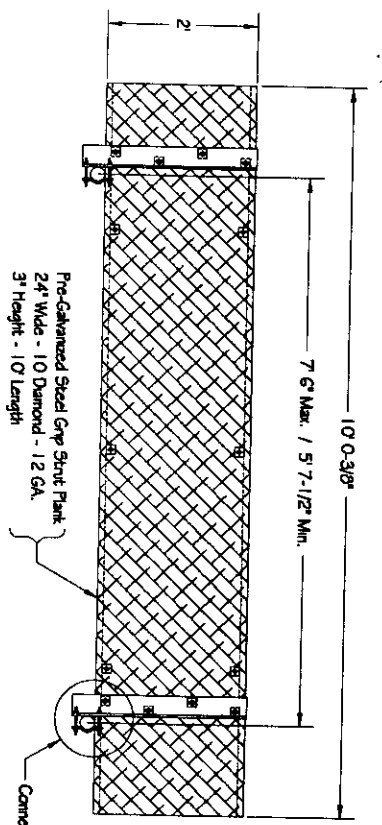
- 1.) This Kit is Designed To Be Used With 2-1/2" Horizontal Pipe Mounting Panels.
- 2.) Steel Parts Indicated Above With An "\*" Will Be Packed With The Hardware.



REV #	DESCRIPTION	DATE	APP.	ISSUED


**CENTRAL TOWER**  
 A TOWER COMPANY  
 PH# (612) 833-0595  
 FAX# (612) 833-6532  
 2055 HIGHWAY 261  
 NEWBURGH, IN. 47630

TITLE: **STANDARD 2" SCH. 40 x 96" PIPE**  
 DWG. NO.: **SP30-2096**  
 DO NOT SCALE DRAWING



Connection 1

STEEL PARTS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	TB210-12	2 x 10 Grip Shank Plank	1
2	TB55-3-4	T. L. B. Support Brace	2
3*	SC-125575	Saddle Clamp For 1-1/4" - 5-3/4" Round Leg	4
4	P3540-169	3-1/2" Std 40 x 14 Pipe Column	2
5*	TB22500	Washer	8
6*	IB350	3-1/2" Std 40 Pipe Cap	2

HARDWARE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	TG50X200	1/2" x 2" H.D.G. Threaded Rod	8
2	BT50X200	1/2" x 2" H.D.G. Bolt	8
3	NU50G	1/2" H.D.G. Nuts	24
4	WL50G	1/2" H.D.G. Lockwashers	24
5	WF50G	1/2" H.D.G. Flatwashers	16

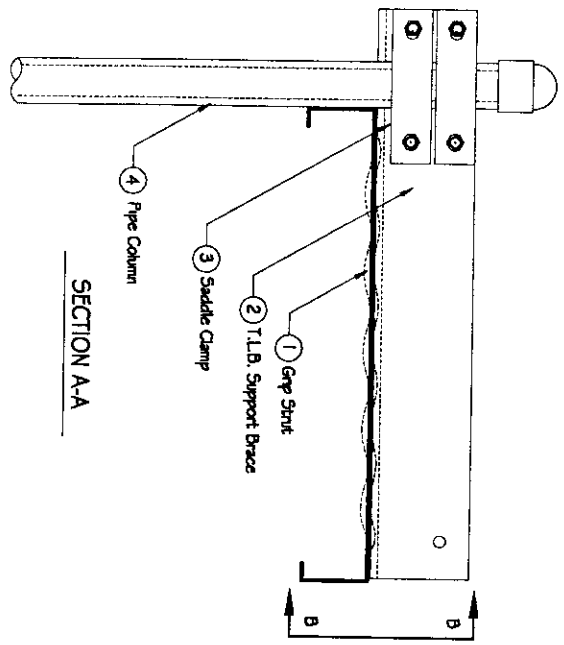
\*\* Flatwashers Are To Be Used At All Slotted Hole Locations !! \*\*

WEIGHT & ENGINEERING INFORMATION

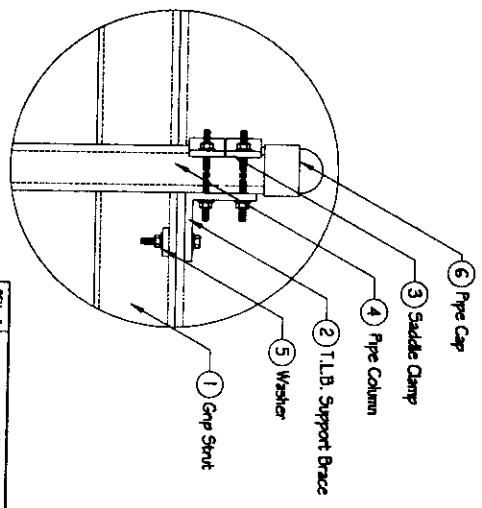
KIT NO.	WEIGHT (lbs.)	DESCRIPTION	Calc (94 Ft.)
TL2-210-140	453	2 x 10' Bridge : Two 1/4 Columns	NA

NOTES:

- 1.) Hanger Spacing Shown is For Reference Only. Spacing May Change Due To Customers Personal Preference And/ Or Site Conditions.
- 2.) Transmission Line Hangers Are Not Provided With This Kit!
- 3.) Foundation Shown is A Minimum Recommendation Only. The Bottom Of The Foundation Should Be Extended Deeper If The Freeze Line is Below 3' For The Area In Which It is Installed.
- 4.) Steel Parts Indicated Above With An "\*" Will Be Packed With The Hardware.



SECTION A-A



SECTION B-B

REV. #	DESCRIPTION	DATE	APP.	DATE

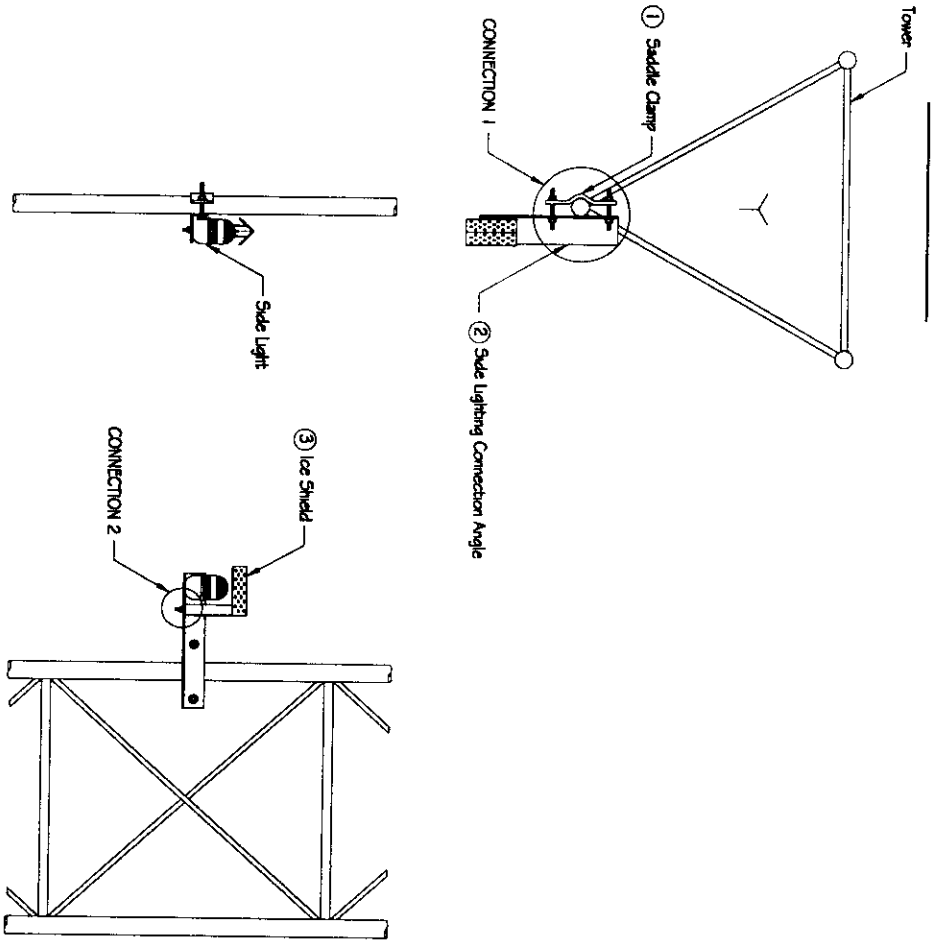
TOLERANCES: 3/32" ANGLES: 5/16" UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

TITLE: **2' x 10' BRIDGE W/ (2) 1/4" LENGTH PIPE COLUMNS**  
 DRAWING NO.: **TL2-210-140**  
 DO NOT SCALE DRAWING

CENTRAL TOWER  
 2855 HIGHWAY 261  
 NEWBURGH, NY 10950  
 PH: (812) 853-0395  
 FAX: (812) 853-6692



### Typical Installation



### STEEL PARTS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	100455M-2	Saddle Bracket	3
2	100455M-1	Side Lighting Connection Angle	3
3	100455M-1	Ice Shield	3

### HARDWARE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	1213X1-4AT	1/2" x 1/4" H.D.G. Threaded Rod	6
2	1213NUT	1/2" H.D.G. Nuts	12
3	12PALNUT	1/2" H.D.G. Flatnut	12
4	1213WASHER	1/2" H.D.G. Washers	12
5	38BOTT	3/8" x 1" H.D.G. Bolt	3
6	38NUT	3/8" H.D.G. Nut	3
7	38PALNUT	3/8" H.D.G. Flatnut	3
8	38WASHER	3/8" 5.5. Flatwashers	6

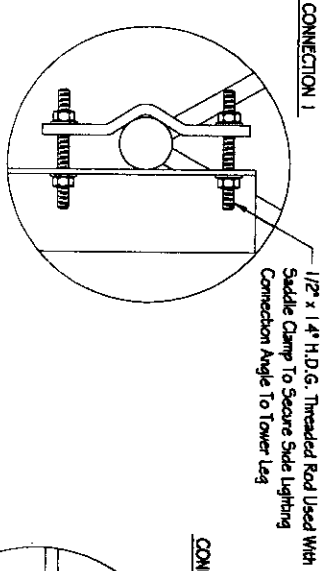
\*\* Fabricators Are To Be Used At All Slotted Hole Locations !! \*\*

### WEIGHT & ENGINEERING INFORMATION

KIT NO.	WEIGHT (lbs.)	DESCRIPTION	Calc (Sq. Ft.)
USL-125900	N/A	Side Lighting Bracket	N/A

### KIT USE INFORMATION

- 1.) This Kit is Designed To Adapt To The Following Member Ranges.
  - A.) 1-1/4" Ø Thru 9" Ø Round Members.
- 2.) This Mounting Assembly Provides For 3/4" Conductor Attachment To Any Member Size Listed Above. The Tower Member Can Only Be A Tower Leg.

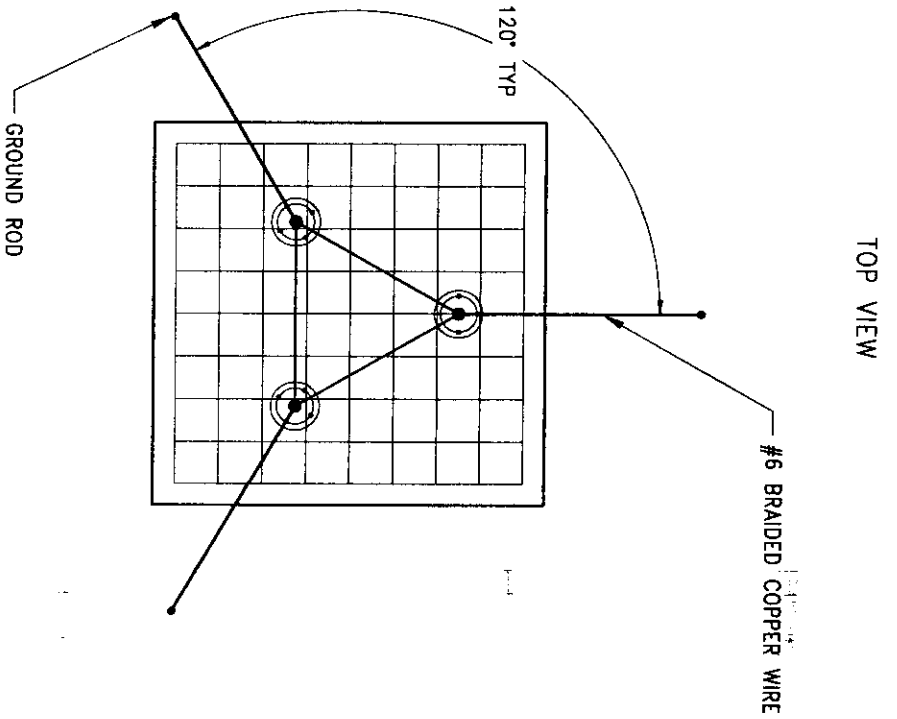
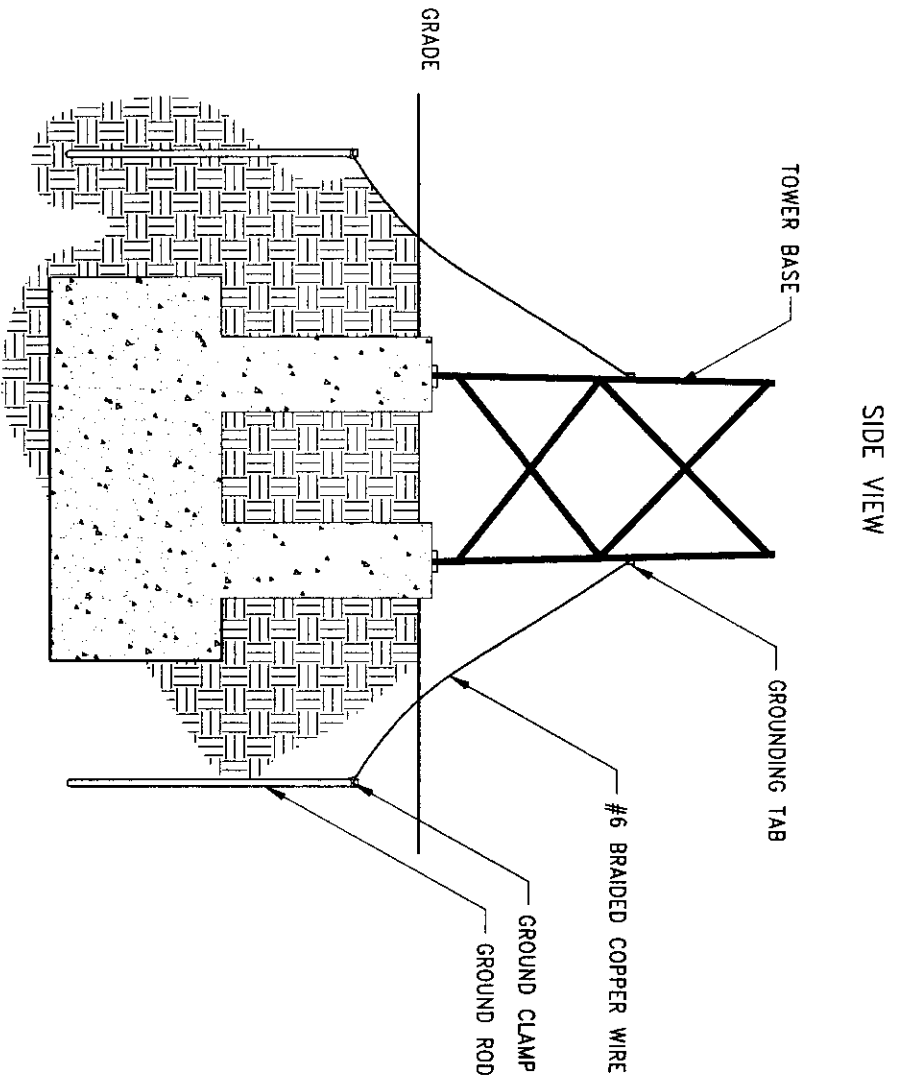


REV. #	DESCRIPTION	DATE	APP'D.	DATE
			A.J.H.	12-9-98

**CENTRAL TOWER**  
 1447 (812) 853-0395  
 2855 HIGHWAY 28  
 NEWBURN, IN. 47630

**UNIVERSAL SIDE LIGHTING KIT**  
 USL-125900

DWG. NO. 0  
 DO NOT SCALE DRAWING



BASE GROUNDING DETAIL

REV #	DESCRIPTION	DATE	APP.	DESIGN	DATE	TOLERANCES	FINISHES

**THIRD ANGLE CONVENTION**  
 PROJECTION  
 THIS DRAWING CONTAINS CONVENTIONAL INFORMATION. IT IS TO BE USED ONLY FOR THE INFORMATION OF THE USER. IT IS NOT TO BE USED FOR THE DESIGN OF ANY PART OF THE PROJECT OR FOR ANY OTHER PURPOSE.  
 TOLERANCES: ± 0.005 INCHES  
 DIMENSIONS: ± 0.005 INCHES  
 FINISHES: AS SHOWN  
 TITLE: SELF SUPPORTER STANDARD GROUNDING INSTALLATION  
 DWG. NO.: STD-GRND-SS  
 REV: 0  
 DO NOT SCALE DRAWING

**CENTRAL TOWER**  
 PH# (612) 853-0585  
 FAX# (612) 853-6852  
 2855 HIGHWAY 251  
 NEWBURGH, IN. 47630

**EXHIBIT H SUPPLEMENTAL**  
**[Professional Engineer Letter Referencing Geotechnical Report]**



June 11, 2004

Cingular  
C/O General Dynamics  
1650 Lyndon Farm Court  
Louisville, Kentucky 40223

**Terracon**  
Consulting Engineers & Scientists

4545 Bishop Lane, Suite 101  
Louisville, Kentucky 40218  
Phone 502.456.1256  
Fax 502.456.1278  
www.terracon.com

Attention: Mr. Donald Day

**Re: Geotechnical Engineering Report  
Proposed Winston Communication Tower  
Winston, Kentucky  
Terracon Project No. 57047404  
Addendum No. 2**


Dear Mr. Day:

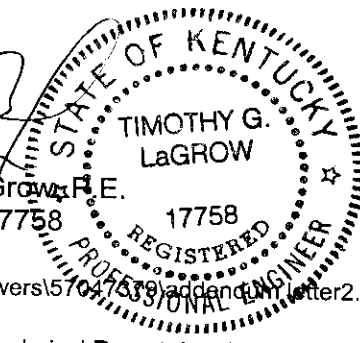
We have received permission from Joey Ernest with Crown Castle USA, Inc. to release the geotechnical engineering report for the above site for your use. The geotechnical report dated November 14, 2001 was performed for a 305-foot guyed tower. We understand that the tower design has changed to a 190-foot self-supporting tower. Foundation design for the tower is a 28½-foot by 28½-foot mat buried about 5 ½ feet below existing grade. Three thirty-six (36) inch diameter piers will extend above the ground surface from the 1 ¾-foot thick mat. Maximum contact pressure reported by the tower designer, Central Tower, is 2.45 kips per square foot.

Based on our review of the original geotechnical report, and our understanding that the self-supporting tower will be constructed at the original location of the guyed tower (boring B-1), then the recommendations contained in the original geotechnical report remain valid for the new tower foundation. Specifically, the allowable bearing pressure of 15 ksf recommended in the report is more than adequate for the proposed design.

We appreciate the opportunity to be of continued service to you on this project. If you have any questions concerning this letter, or if we may be of further service to you in any way, please feel free to contact us.

Sincerely,  
**Terracon**

  
Timothy G. LaGrow, P.E.  
Kentucky No. 17758



n:\projects2004\towers\57047404\addendum letter2.doc

Attachments: Geotechnical Report dated November 14, 2001