



FQ-012-2012

TOWER REPAIR

Written quotes will be accepted by the City of Lake City, Florida until 4:00 P.M., local time on March 5, 2012 for the repair of a communication tower located behind the Florida Highway Patrol office at 1350 W. US Highway 90, Lake City, Florida. Any quotes received after this date and time will not be considered. Quotes can be faxed to (386) 755-6112, e-mailed to procurement@lcfla.com, hand delivered or mailed to:

City of Lake City
Procurement Department
205 North Marion Avenue
Lake City, FL 32055

All questions must be submitted in writing to procurement@lcfla.com. Vendor may not withdraw his/her quote for a period of sixty (60) days. The City of Lake City reserves the right to accept or reject any or all quotes and to award the contract in the best interest of the city.

The successful contractor must supply a Certificate of Liability indicating general liability, worker compensation and vehicle insurance coverage. The certificate must list the City as a certificate holder.

All work must be completed within fourteen days of notice to proceed. Payment will be lump sum upon completion, inspection and acceptance by the City of Lake City.

REPAIR CRITERIA

THIS TOWER HAS NOT BEEN ANALYZED AND ITS STRENGTH CONDITION IS UNKNOWN. THE TOWER WAS INSPECTED FOR CONDITION AND THE INSPECTION REPORT WAS ISSUED ON JANUARY 25, 2012. THE REINFORCEMENT SHOWN ON THIS DRAWING WAS DESIGNED AS A TEMPORARY MODIFICATION ONLY. THE REINFORCEMENT HAS BEEN DESIGNED TO MAKE THE DAMAGED TOWER SECTION STRONGER. THE TOWER SHOULD BE INSPECTED FOR MAINTENANCE PURPOSES ON A ROUTINE BASIS AND AFTER EXTREME STORM CONDITIONS.

GENERAL NOTES

MATERIALS:

U-BOLTS AND PLATES ASTM A36 Fy = 36.0 KSI

BEARING BAR AND PIPE Fy=50.0 KSI.

WELD ELECTRODES E70 SERIES

1. BOLTS

1.1 ALL BOLTS 1/2" DIA. AND LARGER, SHALL BE A325 AND FURNISHED WITH A HEAVY HEX NUT, HEAVY ROUND WASHER, AND HEAVY "PALNUT", ALL HOT DIPPED GALVANIZED.

1.2 U-BOLTS SHALL BE FURNISHED WITH HEAVY WASHERS, HEAVY HEX NUTS AND "PALNUTS", ALL HOT DIPPED GALVANIZED.

2. FABRICATION

2.1 ALL STEEL FABRICATION SHALL BE DONE IN ACCORDANCE WITH AISC "STEEL CONSTRUCTION MANUAL", LATEST EDITION.

2.2 ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS STRUCTURAL WELDING CODE D1.1 LATEST EDITION. WELDER MUST HOLD CURRENT CERTIFICATION FOR WELD BEING USED.

2.3 ALL WELDED CONNECTIONS SHALL BE "SEAL" WELDED TO PREVENT WEEPING OF RUST FROM CONNECTIONS.

2.4 ALL STEEL MATERIAL SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. AFTER GALVANIZING, ALL THREADED AND OTHER ITEMS SHALL BE PROPERLY CLEANED, ALL BURRS, ETC SHALL BE REMOVED FROM ALL GALVANIZED MATERIAL PRIOR TO SHIPMENT. DRAIN HOLES SHALL BE PROVIDED FOR CLOSED SECTIONS.

2.5 SLOTTED HOLES MAY NOT BE USED UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS.

2.6 DUE TO THE ABSENCE OF ORIGINAL DRAWINGS AND DIMENSIONS ON THIS TOWER, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE DRAWINGS.

2.7 CONTRACTOR SHALL VERIFY ROHN PART NUMBERS PRIOR TO ORDERING. THE PARTS SHALL BE INSTALLED IN ACCORDANCE WITH ROHN RECOMMENDATIONS.

3. ERECTION

3.1 FIELD DRILLED HOLES, WELDS AND CUTS SHALL BE GIVEN TWO (2) COATS OF COLD GALVANIZING COMPOUND Z.R.C. THE SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.

3.2 PROVIDE TEMPORARY BRACING WHEN REMOVING OR RELOCATING EXISTING BRACING MEMBERS. WORK STARTED ON ANY MEMBER SHALL BE CARRIED TO COMPLETION BEFORE THE END OF EACH WORK DAY. THE SAFETY AND STABILITY OF THE TOWER IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

3.3 WHERE FIELD WORK IS CARRIED OUT NEAR EXISTING COAX AND ANTENNAS, EXTREME CARE SHALL BE EXERCISED AND PROTECTION PROVIDED AS REQUIRED TO PREVENT DAMAGE TO TRANSMISSION EQUIPMENT OR INTERRUPTION OF TRANSMISSION SERVICE.

3.4 WHERE EXISTING COAX, WAVEGUIDE, ANTENNAS, ETC. INTERFERE WITH THIS MODIFICATION WORK, THEY SHALL BE RELOCATED AND PROPERLY SECURED. WHERE NECESSARY, THEY SHALL BE TEMPORARILY RELOCATED AND SECURED. AFTER THE WORK IS COMPLETE THEY SHALL BE INSTALLED IN THEIR FINAL LOCATION AND PROPERLY SECURED. THE FACE MOUNTED CLIMBING LADDER AND TRANSMISSION LINES ARE NOT SHOWN ON THE DRAWING.

3.5 NO TOWER STRENGTHENING WORK SHALL BE STARTED IF STRONG WIND OR GUSTS ARE EXPECTED OR EXPERIENCED.

3.6 PAINT NEW STEEL TO MATCH EXISTING PER FAA REQUIREMENTS.

3.7 UNUSED EQUIPMENT AND TRANSMISSION LINES SHALL BE REMOVED. VERIFY WITH OWNER.

“PROPOSAL”

TOWER REPAIR: \$ _____
_____ Dollars _____ cents

FIRM NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

TELEPHONE _____

FAX # _____

E-MAIL ADDRESS _____

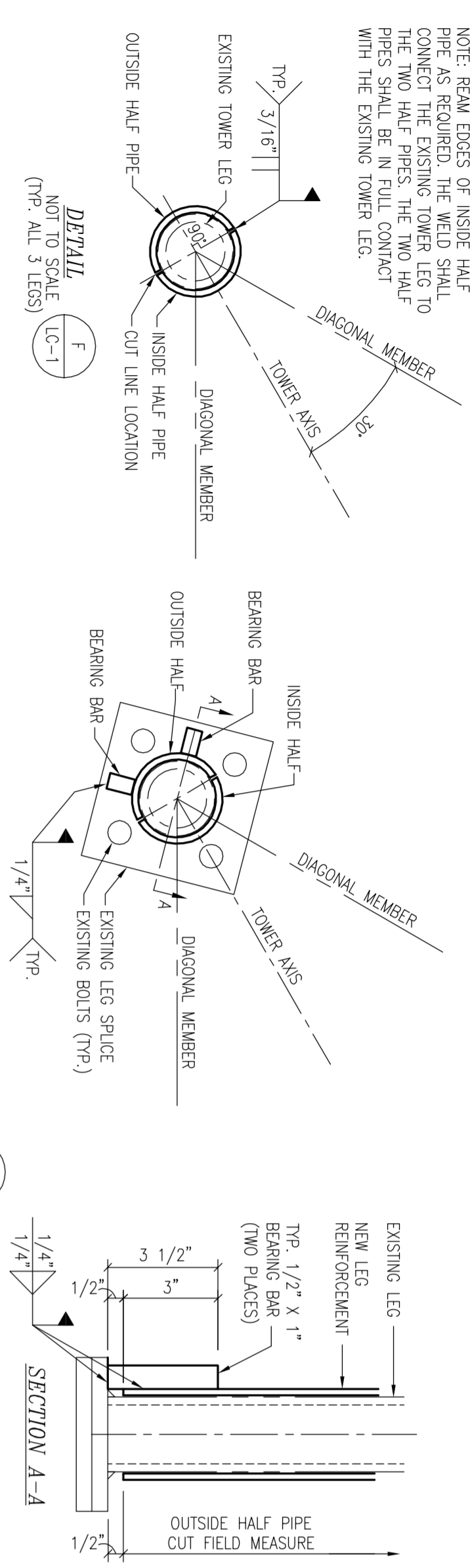
Authorized Representative (PLEASE PRINT OR TYPE)

SIGNATURE _____

DATE _____

THIS FORM MUST BE INCLUDED WITH QUOTE

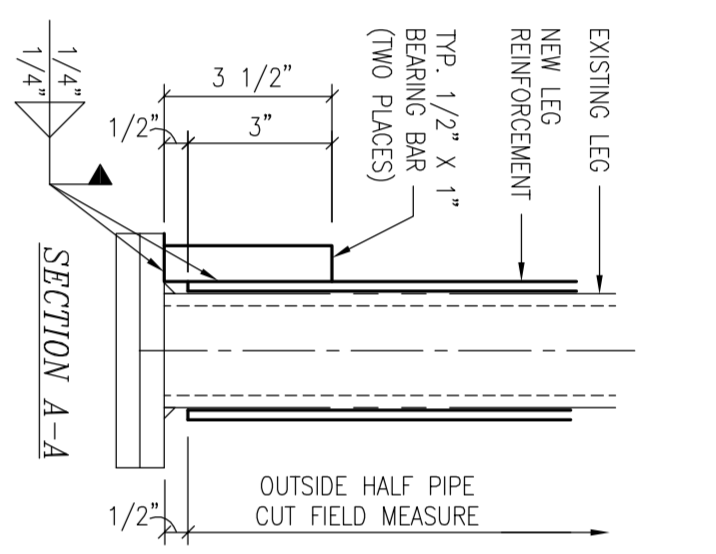
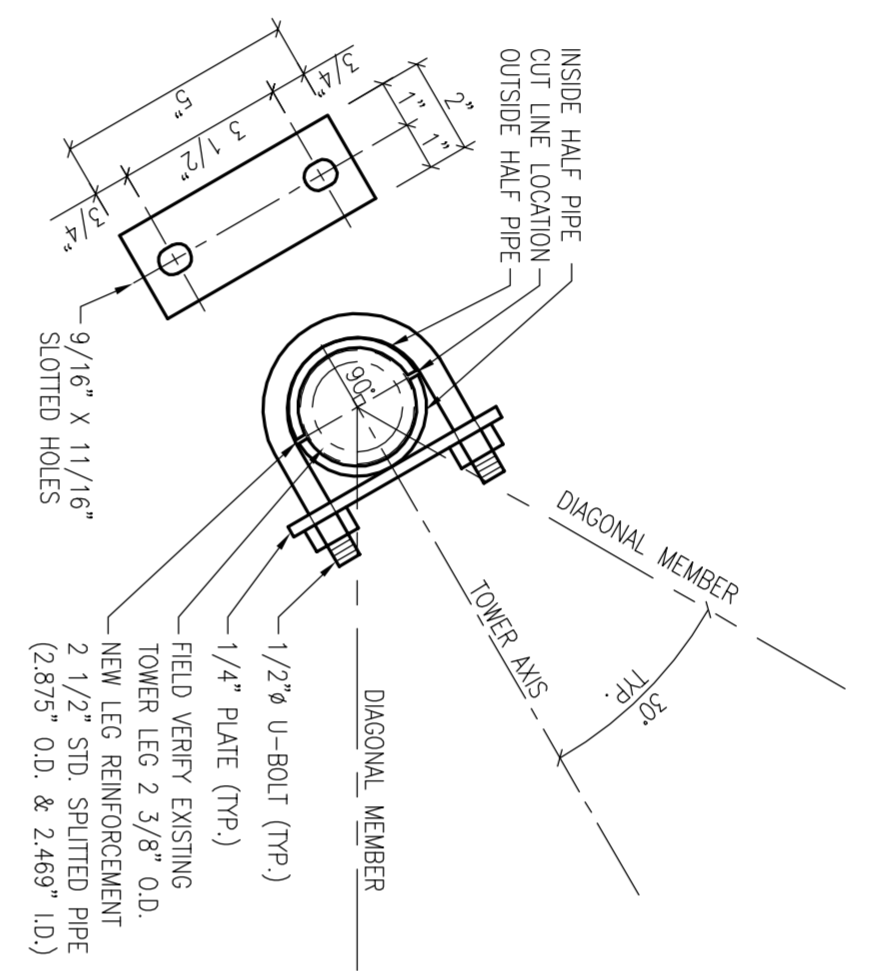
NOTE: BEAM EDGES OF INSIDE HALF PIPE AS REQUIRED. THE WELD SHALL CONNECT THE EXISTING TOWER LEG TO THE TWO HALF PIPES. THE TWO HALF PIPES SHALL BE IN FULL CONTACT WITH THE EXISTING TOWER LEG.



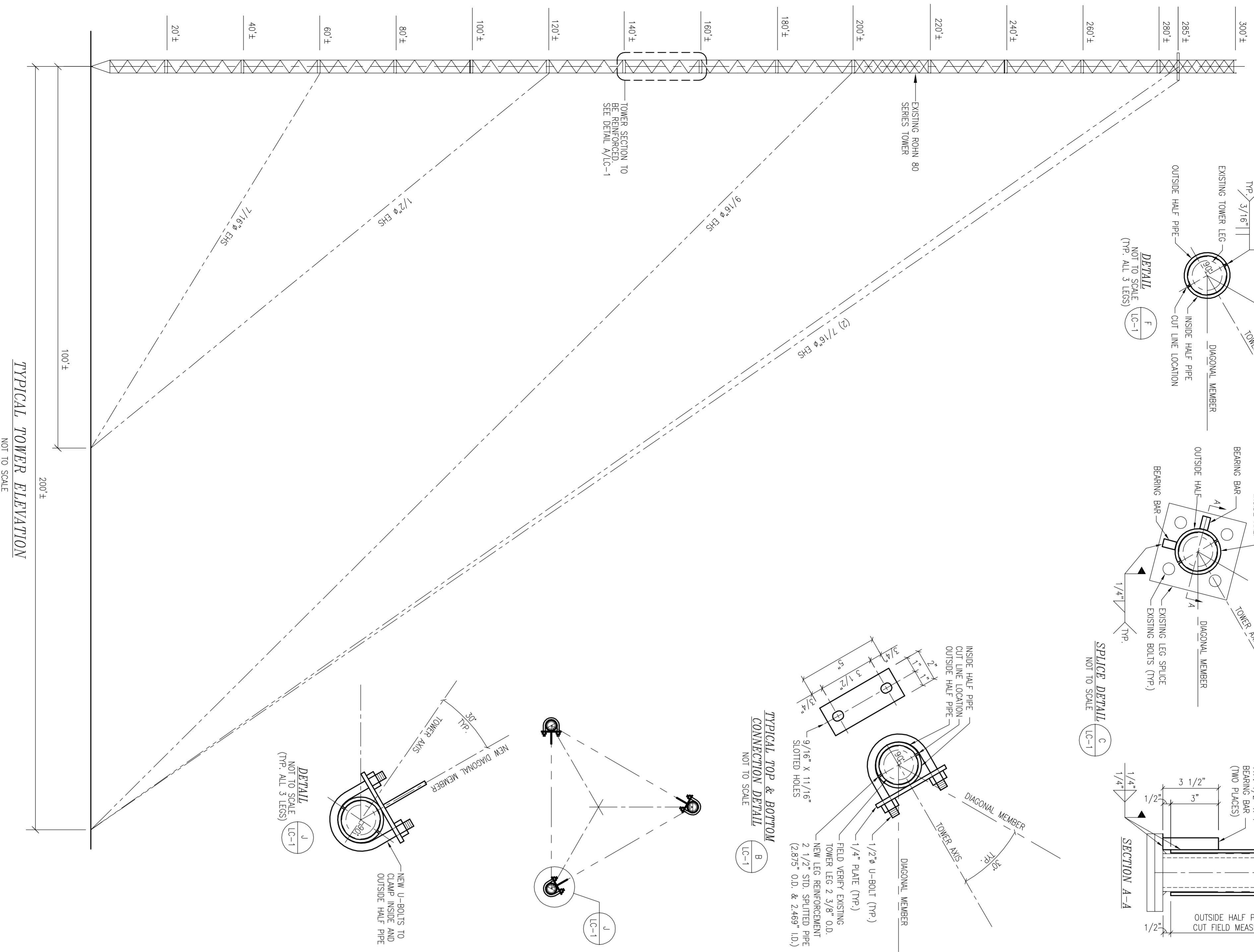
DETAIL F
NOT TO SCALE
(TYP. ALL 3 LEGS)

DETAIL C
NOT TO SCALE

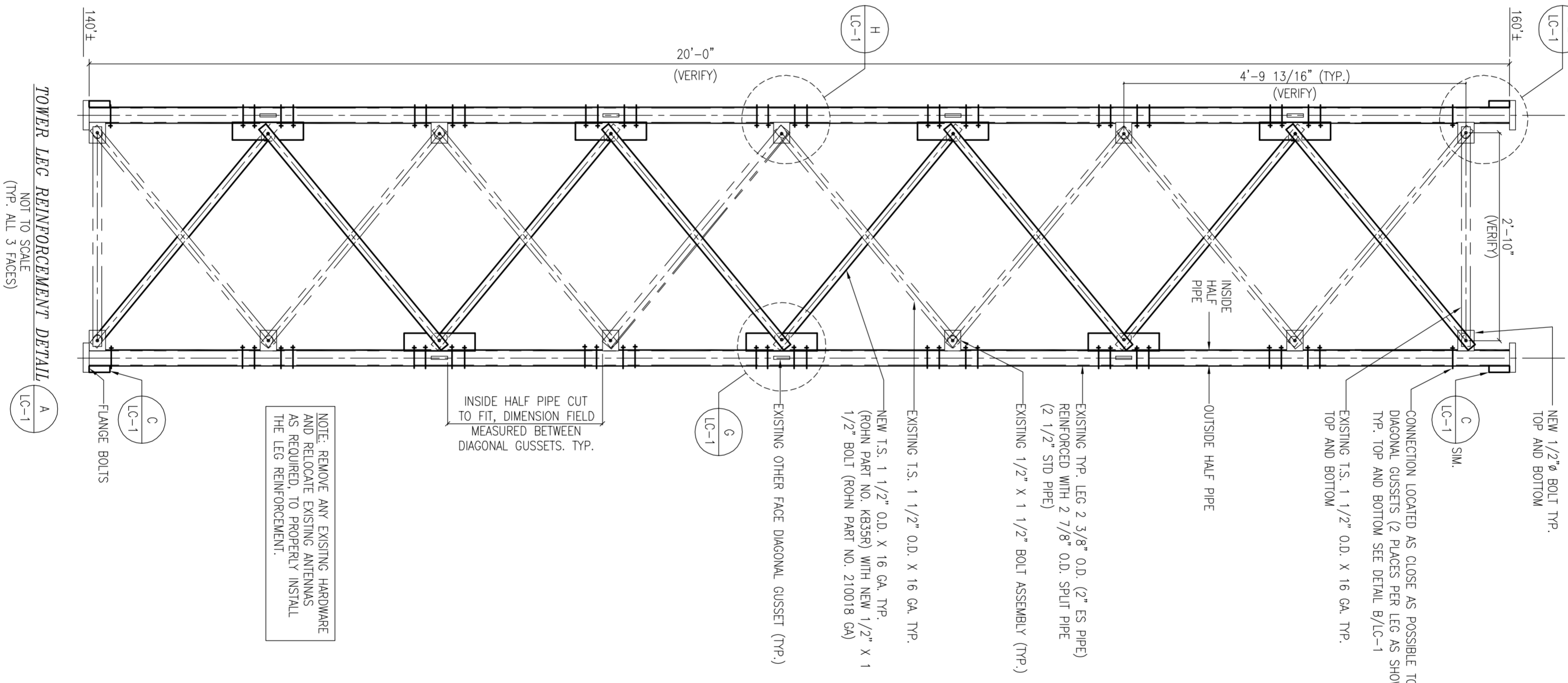
TYPICAL TOP & BOTTOM CONNECTION DETAIL
NOT TO SCALE



SECTION A-A

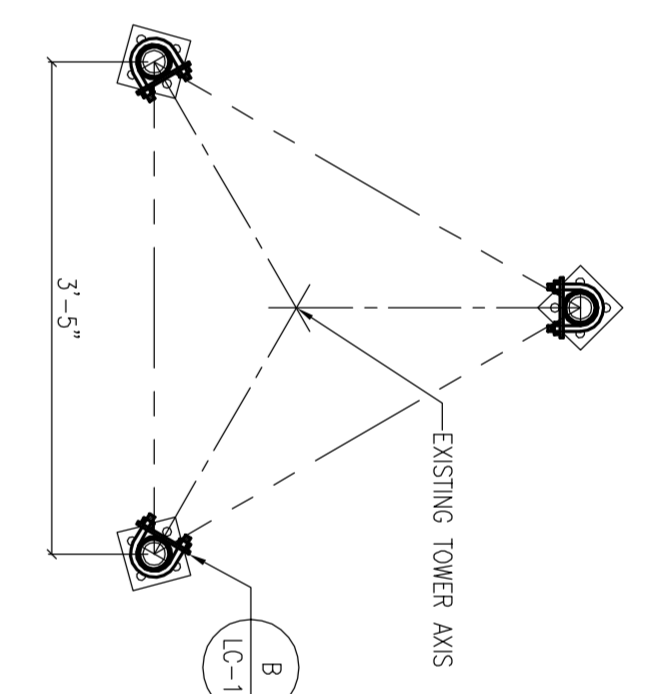


TYPICAL POWER ELEVATION
NOT TO SCALE



TOWER LEG REINFORCEMENT DETAIL
NOT TO SCALE
(TYP. ALL 3 FACES)

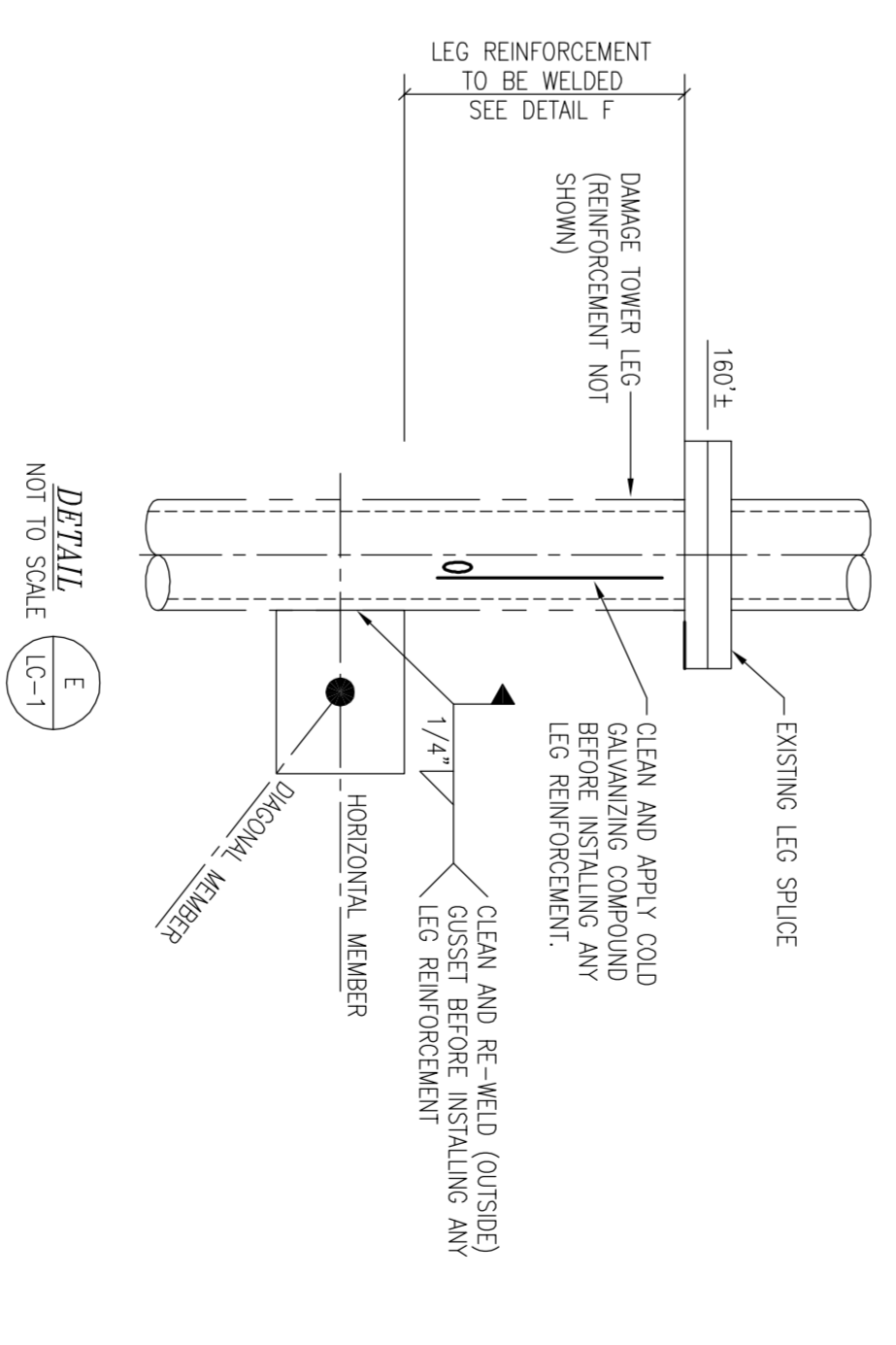
NOTE: REMOVE ANY EXISTING HARDWARE AND RELOCATE EXISTING ANTENNAS AS REQUIRED, TO PROPERLY INSTALL THE LEG REINFORCEMENT.



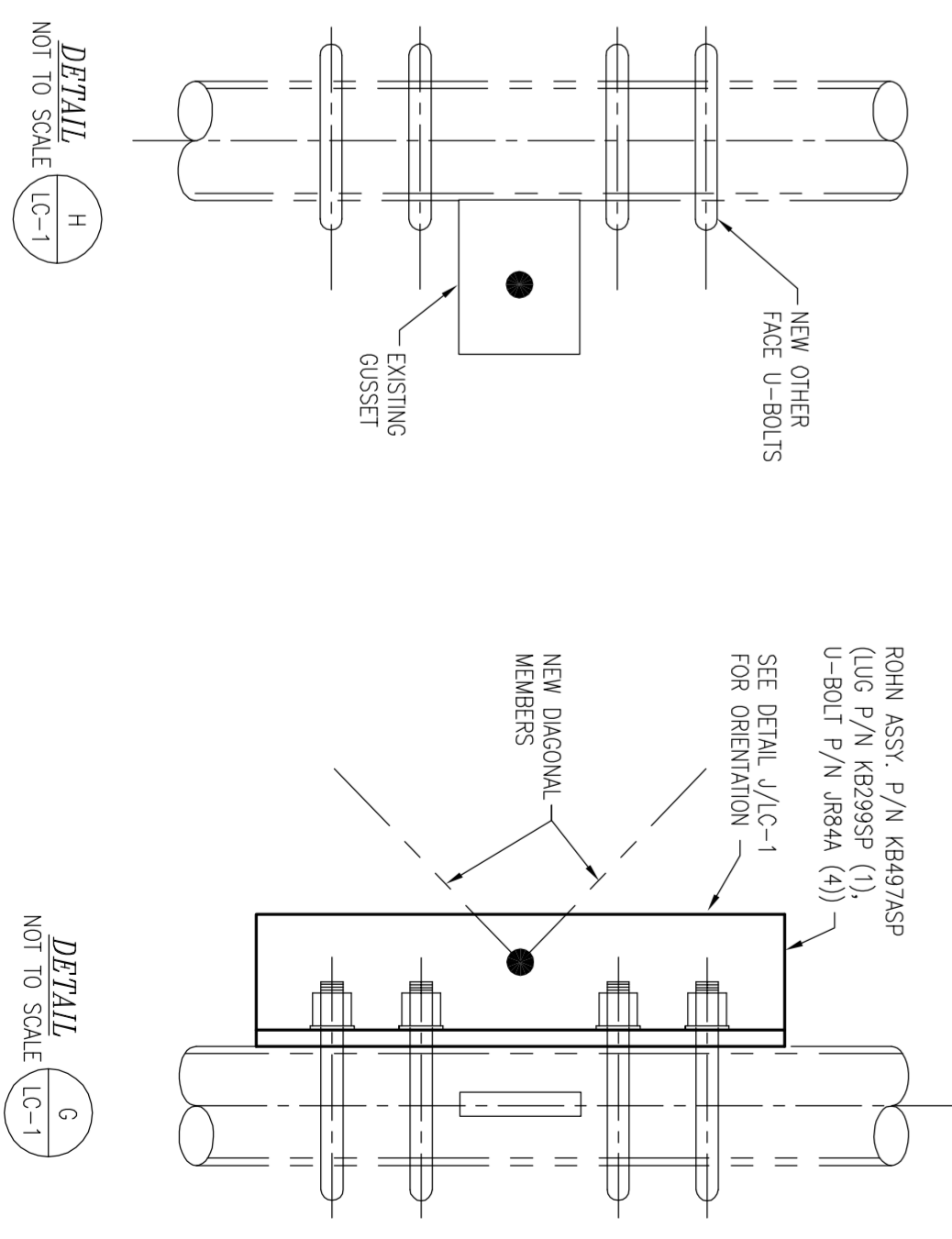
EXISTING TOWER AXIS

GENERAL NOTES

1. ALL BOLTS 1/2" DIA. AND LARGER, SHALL BE A329 AND FINISHED WITH A HEAVY HEX NUT, HEAVY ROUND WASHER, AND HEAVY "PALNUT". ALL HOT DIPPED GALVANIZED.
2. FABRICATION
- 2.1 ALL STEEL FABRICATION SHALL BE DONE IN ACCORDANCE WITH AISC "STEEL CONSTRUCTION MANUAL", LATEST EDITION.
- 2.2 ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AISC STRUCTURAL WELDING CODE D1.1 LATEST EDITION. WELDERS MUST HOLD CURRENT CERTIFICATION FOR WELD BEAMS USED.
- 2.3 ALL WELDED CONNECTIONS SHALL BE "SEAL" WELDED TO PREVENT WEeping OF RUST FROM CONNECTIONS.
- 2.4 ALL STEEL MATERIAL SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. AFTER GALVANIZING, ALL THREADED AND OTHER ITEMS SHALL BE PROPERLY CLEANED. ALL BURS, ETC. SHALL BE REMOVED FROM ALL GALVANIZED MATERIAL PRIOR TO SHIPMENT. DRAIN HOLES SHALL BE PROVIDED FOR CLOSED SECTIONS.
- 2.5 SLOTTED HOLES MAY NOT BE USED UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS.
- 2.6 DUE TO THE ABSENCE OF ORIGINAL DRAWINGS AND DIMENSIONS ON THIS TOWER, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THESE DRAWINGS.
- 2.7 CONTRACTOR SHALL VERIFY ROHN PART NUMBERS PRIOR TO ORDERING. THE PARTS SHALL BE INSTALLED IN ACCORDANCE WITH ROHN RECOMMENDATIONS.
3. ERECTION
- 3.1 FIELD DRILLED HOLES, WELDS AND CUTS SHALL BE GIVEN TWO (2) COATS OF COLD GALVANIZING COMPOUND ZINC. THE SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3.2 PROVIDE TEMPORARY BRACING WHEN REMOVING OR RELOCATING EXISTING BRACING MEMBERS. WORK STARTED ON ANY MEMBER SHALL BE COMPLETED BEFORE THE END OF EACH WORK DAY. THE SAFETY AND STABILITY OF THE TOWER IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 3.3 WHERE FIELD WORK IS CARRIED OUT NEAR EXISTING COIL AND ANTENNAS, EXTREME CARE SHALL BE EXERCISED AND PROTECTION PROVIDED AS REQUIRED TO PREVENT DAMAGE TO TRANSMISSION EQUIPMENT OR INTERFERENCE WITH TRANSMISSION SERVICE.
- 3.4 WHERE EXISTING COIL, WAVEGUIDE, ANTENNAS, ETC. INTERFERE WITH THIS MODIFICATION WORK, THEY SHALL BE RELOCATED AND PROPERLY RESECURED. WHERE NECESSARY, THEY SHALL BE TEMPORARILY RELOCATED AND SECURED. THE WORK IS COMPLETE. THESE SHALL BE RELOCATED IN THE FIELD LOCATION AND PROPERLY RESECURED. THE FIVE MOUNTED GROUNDING DUNDERS AND TRANSMISSION LINES ARE NOT SHOWN ON THE DRAWING.
- 3.5 NO TOWER STRENGTHENING WORK SHALL BE STARTED IF STROKES, WIND OR GUSTS ARE EXPECTED OR EXPERIENCED.
- 3.6 PAINT NEW STEEL TO MATCH EXISTING PER IMA REQUIREMENTS.
- 3.7 UNUSED EQUIPMENT AND TRANSMISSION LINES SHALL BE REMOVED. VERIFY WITH OWNER.



DETAIL E
NOT TO SCALE



DETAIL H
NOT TO SCALE

DETAIL C
NOT TO SCALE

GENERAL NOTES

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DRAWING TITLE GENERAL ARRANGEMENT, DETAILS, AND NOTES		JOB TITLE MOD. TO EXISTING 300 FT. GUYED TOWER LAKE CITY FHP FOR CITY OF LAKE CITY	
JOB NUMBER 12-103	DRAWING NO. LC-1 OF 1	REV.	

Pate Engineering Inc.
13540 N. FLORIDA AVE. SUITE 203
TAMPA, FLORIDA 33613
813-960-0002
FL Certificate of Authorization #4524

DESIGNED BY RR	DRAWING RECORD		
DRAWN BY HC	REV.	DESCRIPTION	DATE
CHECKED BY RR	A	FOR APPROVAL	2/15/12
APPROVED BY			

REV.	DESCRIPTION	DATE	REV.	DESCRIPTION	DATE