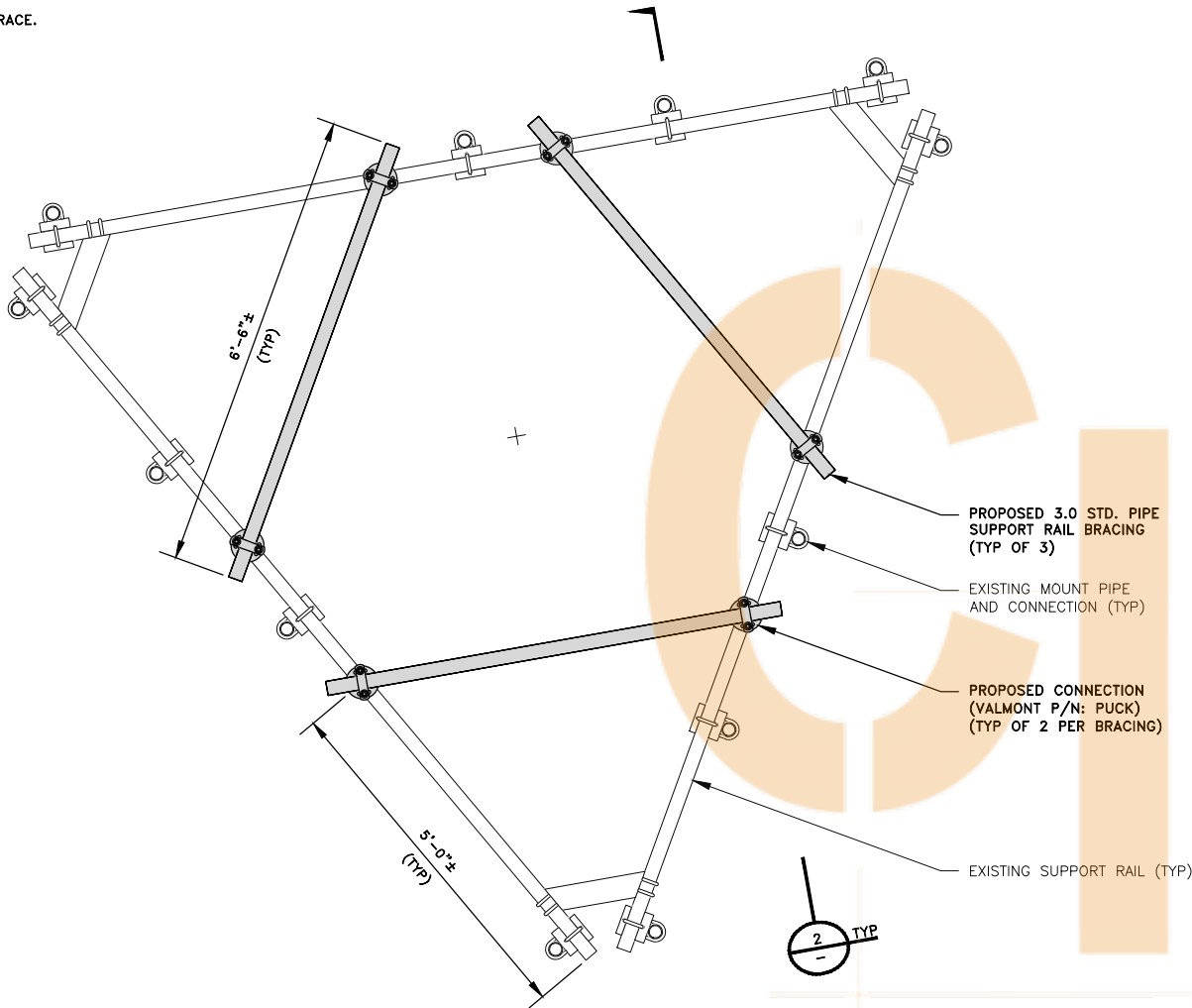


- NOTES:
1. AZIMUTHS ARE APPROXIMATE.
 2. MAINTAIN MINIMUM 3" EDGE DISTANCE FROM END OF CLAMP TO END OF PIPE BRACE.

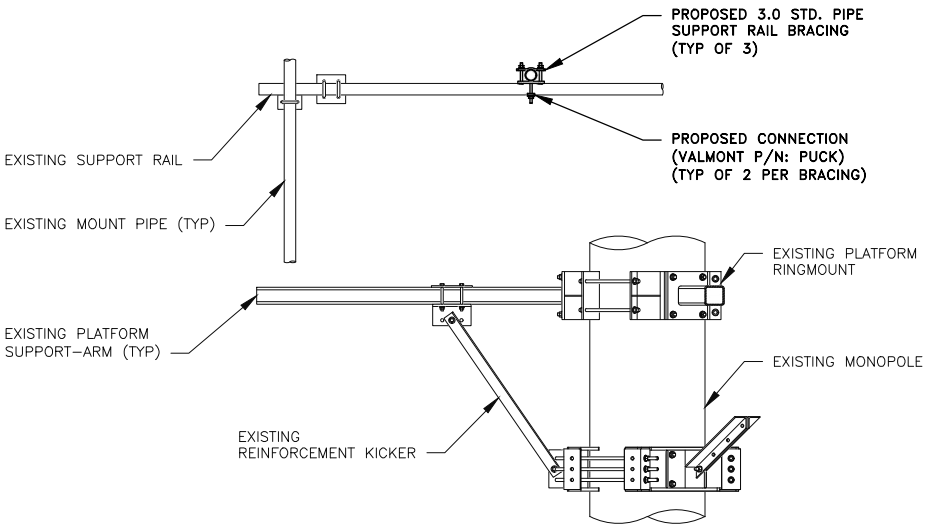


SUPPORT RAIL MODIFICATION PLAN

NO SCALE

1

- NOTE:
1. OTHER EXISTING/PROPOSED MEMBERS NOT SHOWN FOR CLARITY.



MODIFICATION ELEVATION

NO SCALE

2

CONTRACTOR SHALL FIELD VERIFY AND MEASURE DIMENSIONS OF THE SITE STRUCTURE BEFORE FABRICATION OF MATERIALS FOR ALL MODIFICATIONS.

GENERAL NOTES

1. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST BE EXPERIENCED IN THE PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT THEY DO HAVE SUFFICIENT EXPERIENCE, ABILITY, AND IS PROPERLY REGISTERED/LICENSED TO DO THIS WORK IN THE STATE, CITY OR COUNTY IN WHICH IT IS TO BE PERFORMED.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING MOUNTING SYSTEM SIZES AND REPORT TO THE ENGINEER IF DIFFERENT THAN NOTED ON PLAN.
3. IN THE EVENT OF AN EMERGENCY, CONTRACTOR SHALL CONTACT TO REPORT ANY EVENT OR EMERGENCY INCIDENT AT ANY AT&T SITE PER ATTACHED CONTACT INFORMATION TABLE.
4. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SUPPORT AS REQUIRED TO COMPLETE WORK.
5. THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES.
6. EXISTING STRUCTURAL COMPONENTS OF THIS PROJECT SITE/FACILITY ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO DAMAGE IS DONE TO THE TOWER DURING THE CONSTRUCTION PROCESS. THE TOWER SHOULD BE ADEQUATELY SUPPORTED AND BRACED AT ALL TIMES.
7. MOUNTING PIPES AND CONNECTION HARDWARE TO PLATFORM OR SECTOR FRAMES SHALL BE PROVIDED BY CONTRACTOR, UNLESS NOTED OTHERWISE. A MINIMUM OF TWO (2) CONNECTIONS ARE REQUIRED FOR EACH MOUNTING PIPE, UNLESS NOTED OTHERWISE.
8. CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS AND SHALL BE PERFORMED ONLY IN "GOOD WEATHER". GOOD WEATHER MEANS LITTLE TO NO WIND, NO RAIN AND A MINIMUM TEMPERATURE OF 50 DEGREES FAHRENHEIT WHEN WELDING IS INVOLVED. CONTACT ENGINEER FOR ADDITIONAL INSTRUCTIONS IF "GOOD WEATHER" CANNOT BE ACHIEVED.
9. ALL CHANGES/ALTERATIONS/REVISIONS TO THESE DRAWINGS SHALL BE DOCUMENTED BY REQUEST FOR INFORMATION (RFI) FORM APPROVED BY ENGINEER OF RECORD. FINAL WORK AUTHORIZATION AND ALL CHANGE ORDERS SHALL BE APPROVED BY CLIENT AND/OR CLIENT REPRESENTATIVE PRIOR TO PROCEEDING WITH ANY WORK THAT DEVIATES FROM THE ORIGINAL DESIGN, SCOPE, PRICE AND/OR SCHEDULE.

STRUCTURAL NOTES

1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW, UNLESS NOTED OTHERWISE.
ANGLES, BARS, CHANNELS: ASTM A36, 36 KSI
HSS SECTIONS: ASTM 500, 46 KSI
PIPE SECTIONS: ASTM A53 Gr. B
THREADED ROD: ASTM A449
U-BOLTS: ASTM A307
W-SHAPES: ASTM A992, 50 KSI
2. ALL NEW CONNECTIONS SHALL USE ASTM A153 GALVANIZED A325-N BOLTS, NUTS AND LOCKING DEVICES UNLESS NOTED OTHERWISE.
3. ALL NEW CONNECTIONS THAT REQUIRE "TURN OF THE NUT" METHOD SHALL USE:
FOR BOLTS: ASTM A325-N TYPE 1 GALVANIZED HIGH STRENGTH BOLTS
FOR NUTS: ASTM A563 CARBON AND ALLOY STEEL
FOR WASHERS: ASTM F436 HARDENED STEEL WASHERS WITH PROPER LOCKING DEVICE
4. ALL WELDING, IF CALLED OUT ON PLAN, SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC/AWS. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP FOLLOWING ANY WELDING.
5. STRUCTURAL BOLTS SPACING AND EDGE DISTANCE SHALL MEET 2005 AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDING REQUIREMENTS, UNLESS NOTED OTHERWISE.
6. MAINTAIN A MINIMUM 1-1/8" EDGE DISTANCE FROM CENTER OF ANY HOLE TO NEAREST EDGE OF ANY PLATE OR ANGLE, UNLESS NOTED OTHERWISE.
7. ALL STRUCTURAL STEEL ROLLED SHAPES AND PLATES SHALL CONFORM TO ASTM A123 GALVANIZED, UNLESS NOTED OTHERWISE.
8. CONTRACTOR SHALL TOUCH UP ANY DAMAGED PAINT AREAS WITH ZINC RICH PAINT, ALL AREAS THAT WERE FIELD DRILLED, WELDING, OR CUT SHALL BE TOUCHED UP WITH ZINC RICH PAINT. PAINT SHALL BE APPLIED BY BRUSH ONLY (SPRAY APPLICATION PROHIBITED).
9. ALL FIELD CUT HOLES SHALL BE CUT WITH A GRINDER OR DRILLED. HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER OF RECORD.

BOLT-TIGHTENING PROCEDURE NOTES

1. ALL BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN AISC SECTION 8(c) OF THE SPECIFICATION, UNLESS NOTED OTHERWISE.
2. ONLY WHERE SPECIFIED, TIGHTEN CONNECTION BOLTS BY AISC - "TURN OF THE NUT" METHOD FOR ASTM A325 BOLTS AND/OR ENGINEER APPROVED EQUIVALENT USING THE CHART BELOW.
BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETER:
1/2" BOLTS UP TO AND INCLUDING 3-1/2" LENGTH + 1/3 TURN BEYOND SNUG TIGHT
5/8" BOLTS UP TO AND INCLUDING 4" LENGTH + 1/3 TURN BEYOND SNUG TIGHT
BOLT LENGTHS OVER FOUR DIAMETER BUT NOT EXCEEDING EIGHT DIAMETER:
1/2" BOLTS 3-3/4" TO 7" LENGTH + 1/2 TURN BEYOND SNUG TIGHT
5/8" BOLTS 4-1/4" TO 8" LENGTH + 1/2 TURN BEYOND SNUG TIGHT
3. CONNECTION BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8(d)(1) OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS. LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS.
8(d)(1) TURN-OF-THE-NUT TIGHTENING METHOD:
BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8(c). UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE DURING THE TIGHTENING OPERATION THERE SHALL TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

NOTES

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

RAYMORE
KS4729
310 SOUTH LINCOLN
RAYMORE, MO 64083

SHEET TITLE
ANTENNA MOUNT
REINFORCEMENT

SHEET NUMBER
S-1