Development Review Committee
1020 East Pioneer Road
Draper, Utah 84020

STAFF REPORT
December 18, 2025

To: Jennifer Jastremsky, Zoning Administrator

Jennifer Jastremsky
Digitally signed by Jennifer Jastremsky
DN: C=US, E=jennifer.jastremsky@draperutah.gov, O=Draper City Community Development, CN=Jennifer Jastremsky
Date: 2025.12.18 17:10:03-07'00'

Approved Date

From: Development Review Committee

Prepared By: Maryann Pickering, AICP, Planner III
Planning Division
Community Development Department
(801) 576-6391 or maryann.pickering@draperutah.gov

Re: Traverse Ridge AT&T Equipment Modifications – Permitted Use Permit Request

Application No.:	2025-0247-USE
Applicant:	Troy Benson of Red Rock Site Development Services, representing AT&T
Project Location:	15025 S. Traverse Ridge Road
Current Zoning:	RM (Residential Multiple-Family) Zone and the Suncrest Development Agreement
Acreage:	5.06 acres (approximately 220,414 sq. ft.)
Request:	Request for approval of a Permitted Use Permit in the RM zone regarding an existing wireless facility equipment upgrade.

SUMMARY AND BACKGROUND

This application is a request for approval of a Permitted Use Permit on an approximately 5.06 acre site located on the east side of Traverse Ridge Road, at approximately 15025 S. Traverse Ridge Rd. (Exhibits B and C). The property is currently within the area subject to the Suncrest Development Agreement and is zoned RM. The applicant is requesting that a Permitted Use Permit be upgrade the AT&T equipment on the existing facility.

The original facility was approved in 2011 for construction of a stealth monopole facility by Verizon Wireless under a Conditional Use Permit, application 111014-15025S. Co-locations, modifications, and additions to the site have been made over the years for various wireless telecommunications companies as individual permitted uses.

ANALYSIS

General Plan and Zoning.

Table 1	General Plan and Zoning Designations	Exhibit
Existing Land Use	Open Space	Exhibit D
Current Zoning	RM (Residential Multiple-Family)	Exhibit E
Adjacent Zoning		
East	CR (Regional Commercial)	
West	RM (Residential Multiple-Family)	
North	RM (Residential Multiple-Family)	
South	RM (Residential Multiple-Family)	

The Open Space land use designation is characterized as follows:

Open Space and Parks

LAND USE DESCRIPTION	
CHARACTERISTICS	• Applies to natural areas that have the potential to be permanent open space • Efforts should continue to preserve mountainous areas, drainage and riparian areas with attractive indigenous vegetation • Areas designated as permanent natural open space should be placed within a conservation easement
LAND USE MIX	• City's established parks • Public/private golf courses • Greenbelts/linear parks • Large retention areas that have recreational potential • Natural area open space
COMPATIBLE ZONING	• Public Open Space (OS) • Agricultural (A2) • Agricultural (A5)
OTHER CRITERIA	• A variety of methods can be used to preserve these areas, including easements, dedications, and acquisition, some with the potential of having tax relief benefits

According to 1999 Draper City Municipal Code (DCMC) Section 9-4-030 the purpose of the RM zone is to "*provide areas for low-to-medium residential density with the opportunity for varied housing styles and character, providing for a maximum density of up to twelve (12) units per acre for medium to high density residential unit projects subject to conditional-*

use permit procedures and conditions for the type of use and based on minimum development guidelines adopted by the City."

Request. The existing wireless facility was built in approximately 2011. The applicant notes the changes will not expand the existing compound or add any additional shelters or equipment sheds or platforms. Additionally, no new electrical service will be needed as service is already provided at the location (Exhibit F).

The following equipment changes will be taking place (Exhibit G):

Removing
- Remote radio heads – 12 total

Relocating
- 8-foot tall antennas – 3 total. The antennas will remain mounted to the tower legs, at the same height, they will just be pointing in a different direction, and mounted at a slightly shifted location.

Installing
- Mount hardware
- 3-foot tall antennas – 3 total
- Remote radio heads – 9 total

This is an existing stealth facility and the proposed screening is subject to the requirements of Section 9-3-240 of the 1999 DCMC. For stealth installations, the applicant will be required to paint any exterior antennas to match the background of the structure they are supported to. A condition of approval has been included to require this. All height and setback requirements for the antenna installation are met.

Lighting. No additions or changes to the existing site lighting are proposed with this application.

Previous Conditions of Approval. The Planning Commission placed the following conditions of approval on the Conditional Use Permit for the existing tower on November 17, 2011:

1. That all City Standards, requirements, and ordinances are adhered to, especially those contained in Section 9-3-240 of the 1999 Draper City Municipal Code.
2. That the applicant acquires all necessary approvals from the Building Department as necessary.
3. That the applicant satisfies all concerns of the Engineering Division, including filing a notice of intent with the Engineering Division.
4. That all power lines leading to the accessory equipment shall be undergrounded, as required under Subsection 9-3-240(k).

5. That this facility shall meet the requirement of the FCC, FAA, NEPA, as outlined under Subsection 9-3-240(g)(1).
6. That as a safeguard against abandonment or non-maintenance, the applicant shall supply the City a letter agreeing to the requirements and processes of Subsection 9-3-240(n).
7. That there shall be no climbing pegs located on the lower 20 feet of the monopole.
8. That the approval of the conditional use permit shall include acknowledgement that the design is "stealth" as described within the body of the staff report.
9. That the pole, including antennas and antenna support structures will not exceed 60 feet as required in section 9-3-240(g)(4)(iii)(A) of the 1999 code.
10. That the fencing around the compound be vinyl coated as required in section 9-3-240(j).
11. That the facility be constructed as depicted in the site plan and elevations attached to [the] staff report dated November 8, 2011, and submitted to the Planning Commission.
12. That all colors of the tower, the "water tank", its supporting structures, and the supporting building shall be free of bright colors and shall utilize dark and earth tone colors as part of its stealth design.
13. That a letter from the SunCrest development is submitted to staff approving the proposal.

Criteria For Approval. The criteria for review and potential approval of a permitted use request is found in Section 9-5-070(E) of the Draper City Municipal Code. This section depicts the standard of review for such requests as:

E. Approval Standards: The following standards shall apply to the issuance of a permitted use permit. A permitted use shall:

1. Be allowed as a permitted use in the applicable zone;

2. Conform to development standards of the applicable zone;

3. Conform to applicable regulations of general applicability and regulations for specific uses set forth in this title;

4. Not be located on any land classified as a primary or secondary conservation area or sensitive land area, except as expressly permitted by provisions of this title;

5. Not be located in any protected area as shown on a natural resource inventory; and

6 Conform to any other applicable requirements of this code.

REVIEWS

Planning Division Review. The Draper City Planning Division has completed their review of the Permitted Use Permit submission. Comments from this division, if any, can be found in Exhibit A.

Engineering and Public Works Divisions Review. The Draper City Engineering and Public Works Divisions have completed their reviews of the Permitted Use Permit submission. Comments from these divisions, if any, can be found in Exhibit A.

Building Division Review. The Draper City Building Division has completed their review of the Permitted Use Permit submission. Comments from this division, if any, can be found in Exhibit A.

Fire Division Review. The Draper City Fire Marshal has completed his review of the Permitted Use Permit submission. Comments from this division, if any, can be found in Exhibit A.

Noticing. A notice of decision will be issued as outlined in the City and State Codes.

STAFF RECOMMENDATION

Staff finds that the application complies with the DCMC and recommends that the Zoning Administrator review the request and approve the application based on the conditions and findings for approval listed below and the criteria for approval as listed within the staff report.

If the Zoning Administrator decides to approve the request, staff recommends they include the following conditions of approval:

1. That the applicant shall obtain all applicable permits from Draper City Fire and the Building Division, as required for installation of the new components.
2. All exterior mounted antennas shall be painted to match the structure or support they are mounted on.

Findings for approval:

1. The application is allowed as a permitted use in the applicable zone.
2. The application conforms to development standards of the applicable zone.
3. The application conforms to applicable regulations of general applicability and regulations for the specific use set forth in 1999 DCMC Chapter 9-3-240.
4. The application is not located on land classified as a primary or secondary conservation area or sensitive land area.
5. The land is not located in any protected area as shown on a natural resource Inventory.
6. The application conforms to applicable requirements of Title 9 of the 1999 DCMC.

DEVELOPMENT REVIEW COMMITTEE ACKNOWLEDGEMENT

We, the undersigned, as duly appointed members of the Draper City Development Review Committee, do acknowledge that the application which provides the subject for this staff report has been reviewed by the Committee and has been found to be appropriate for review by the Draper City Planning Commission and/or City Council.

Brien Maxfield
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Draper City Public Works Department

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Draper City Planning Division

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Draper City Fire Department

Draper City Legal Counsel

Reid Gerritsen
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Reason: I attest to the accuracy and integrity of this document
Contact Info: 801.576.6534
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Draper City Building Division

EXHIBIT A
DEPARTMENT REVIEWS

REVIEWS ARE NOT MEANT TO BE AN ALL INCLUSIVE LIST OF POSSIBLE COMMENTS OR CONDITIONS.

Planning Division Review.

1. No additional comments.

Engineering and Public Works Divisions Review.

1. No additional comments.

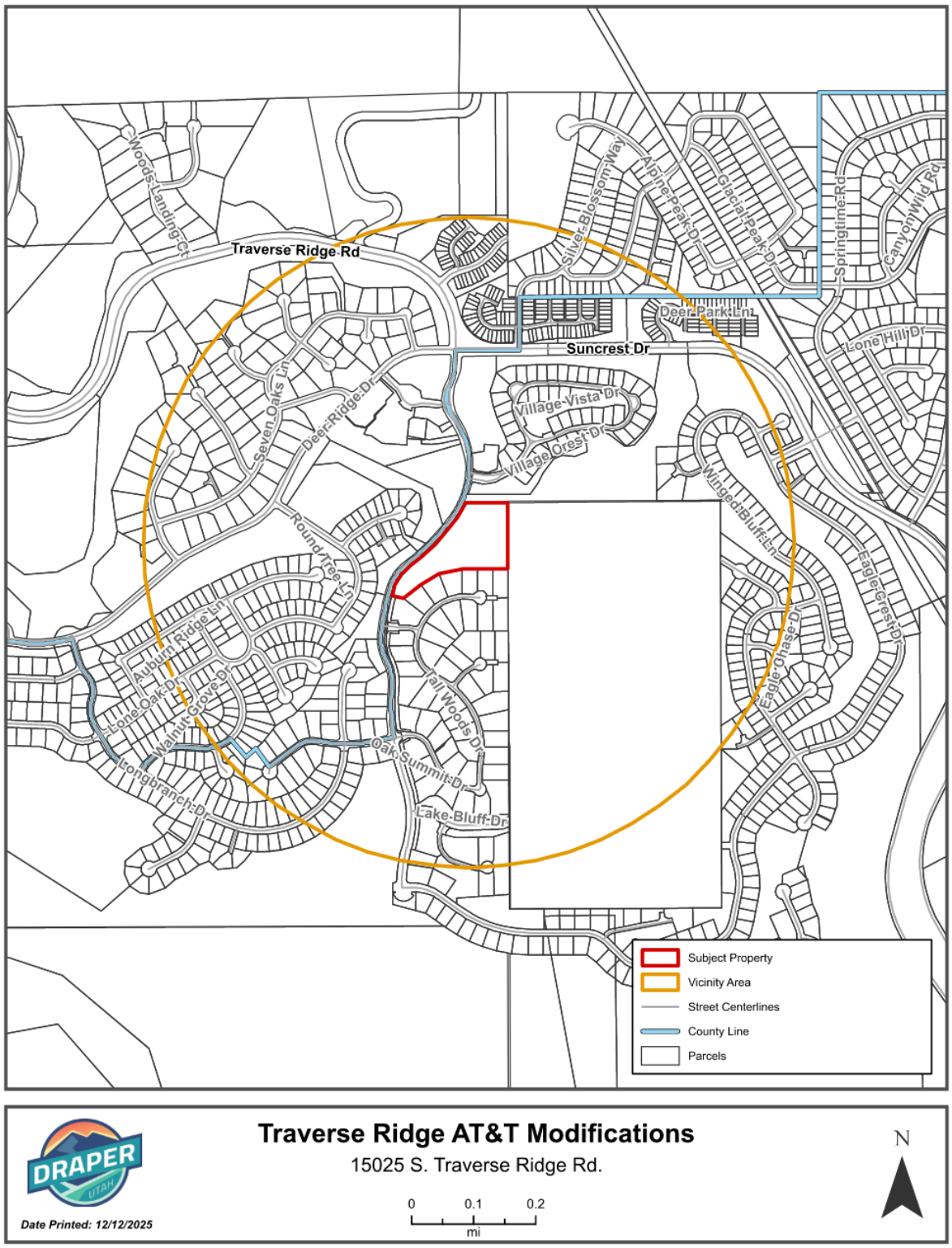
Building Division Review.

1. No additional comments.

Fire Division Review.

1. No additional comments.

EXHIBIT B
VICINITY MAP



Traverse Ridge AT&T Modifications

15025 S. Traverse Ridge Rd.

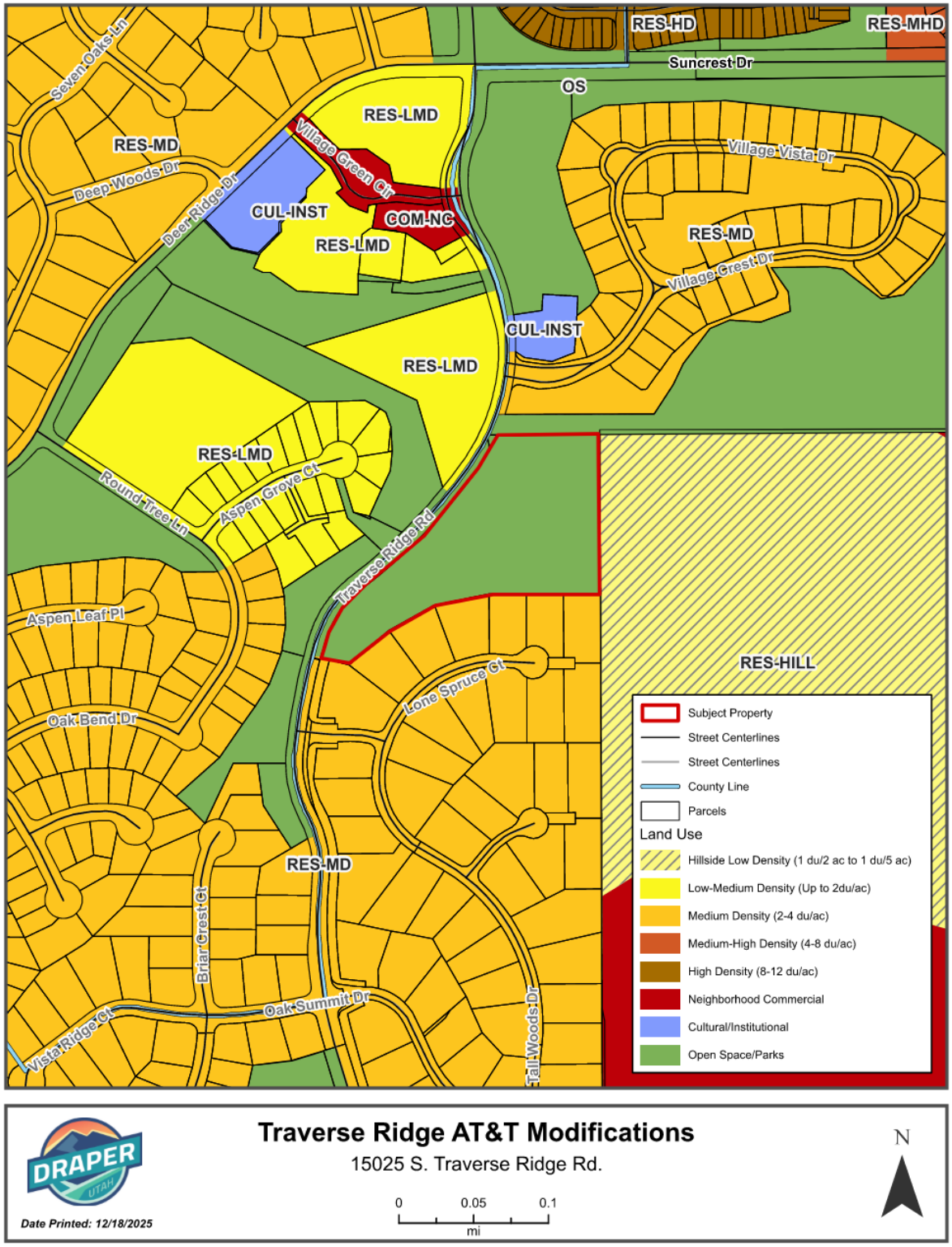
0 0.1 0.2
mi

N

Date Printed: 12/12/2025

EXHIBIT C
AERIAL MAP

EXHIBIT D
LAND USE MAP



DRAPER UTAH

Date Printed: 12/18/2025

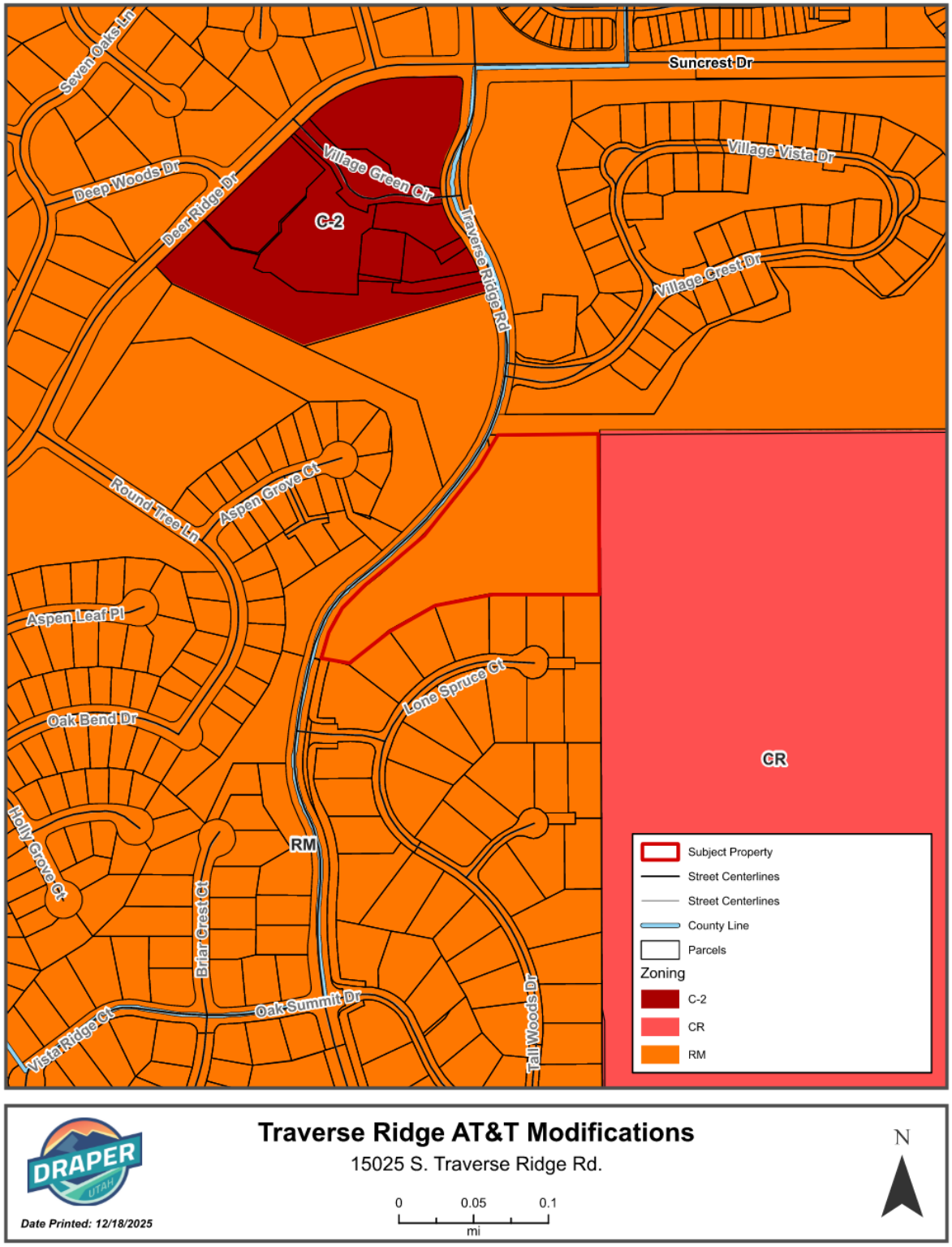
Traverse Ridge AT&T Modifications

15025 S. Traverse Ridge Rd.

0 0.05 0.1
mi

N

EXHIBIT E
ZONING MAP



DRAPER UTAH

Date Printed: 12/18/2025

Traverse Ridge AT&T Modifications

15025 S. Traverse Ridge Rd.

0 0.05 0.1
mi

N

EXHIBIT F
APPLICANT STATEMENT

Traverse Ridge – AT&T Equipment Modifications

AT&T is looking to make equipment modifications to their installation at the cell tower located at 14955 Traverse Ridge Road. The equipment modifications will include the scope of work listed below.

Removing

- (12) remote radio heads

Relocating

- (3) 8' tall antennas. The antennas will remain mounted to the tower legs, at the same height, they will just be pointing in a different direction, and mounted at a slightly shifted location.

Installing

- Mount hardware
- (3) 3' tall antennas.
- (9) remote radio heads

SCOPE OF WORK

TOWER SCOPE OF WORK:

REMOVAL PART:

(6) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB RADIOS
(3) AIRSCALE RRH 4T4R B5 160W AHCA RADIOS
(3) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA RADIOS

RELOCATION:

(3) DC9-48-60-24-8C-EV SURGE SUPPRESSORS
(3) TPA65R-BU8D ANTENNAS

INSTALLATION:

(3) AIR6472 B77G B77M ANTENNAS
(3) 4490 B5/B12A RADIOS
(3) 4494 B14/B29 RADIOS
(3) 4890 B25/B66 RADIOS

GROUND SCOPE OF WORK:

INSTALLATION:

(1) ERICSSON 6672 BBU
(1) 6610 CONTROLLER

MOUNT MODIFICATION:

1. REMOVE ALL EXISTING HARDWARE
2. INSTALL NEW FACE MOUNT HORIZONTALS
3. INSTALL NEW MOUNT PIPES
4. INSTALL PIPES ON STANDOFFS WITH RESPECTIVE TIEBACKS

EXHIBIT G
CONSTRUCTION DRAWINGS

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. THEREFORE HANDICAP ACCESS IS NOT REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

SCOPE OF WORK

TOWER SCOPE OF WORK:

REMOVAL PART:

(6) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB RADIOS
(3) AIRSCALE RRH 4T4R B5 160W AHCA RADIOS
(3) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA RADIOS

RELOCATION:

(3) DC9-48-60-24-8C-EV SURGE SUPPRESSORS
(3) TPA65R-BU8D ANTENNAS

INSTALLATION:

(3) AIR6472 B77G B77M ANTENNAS
(3) 4490 B5/B12A RADIOS
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1. REMOVE ALL EXISTING HARDWARE
2. INSTALL NEW FACE MOUNT HORIZONTALS
3. INSTALL NEW MOUNT PIPES
4. INSTALL PIPES ON STANDOFFS WITH RESPECTIVE TIEBACKS

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE FOLLOWING CODES:

- 2021 UTAH BUILDING CODE (2021 IBC W/ AMENDMENTS)
- 2021 UTAH RESIDENTIAL CODE (2021 IRC W/ AMENDMENTS)
- 2021 UTAH FIRE CODE (2021 IFC W/ AMENDMENTS)
- 2021 UTAH FUEL GAS CODE (2021 IFGC W/ AMENDMENTS)
- 2021 UTAH MECHANICAL CODE (2021 IMC W/ AMENDMENTS)
- 2021 UTAH PLUMBING CODE (2021 IPC W/ AMENDMENTS)
- 2021 UTAH EXISTING BUILDING CODE (2021 IEBC W/ AMENDMENTS)
- 2021 UTAH ENERGY CODE (2021 IECC W/ AMENDMENTS)
- 2023 UTAH ELECTRICAL CODE (2023 NFPA 70 W/ AMENDMENTS)

Blue Stakes of UTAH 811

SITE NAME:
TRAVERSE_RIDGE

FA NUMBER:
12854507

SITE ADDRESS:
14955 TRAVERSE RIDGE ROAD
DRAPER, UT 84020

LATITUDE & LONGITUDE:
N 40° 28' 42.7794", W 111° 50' 01.0314"

PROJECT:
5G NR 1DR-2 SOFTWARE CARRIER CBAND, 5G NR 1DR-2 SOFTWARE CARRIER, 5G NR SOFTWARE RRH SWAP, SOFTWARE.LTE 2C, 5G NR RRH SWAP, 5G NR 1DR-1 CBAND, LTE 1C RRH SWAP, LTE RRH SWAP

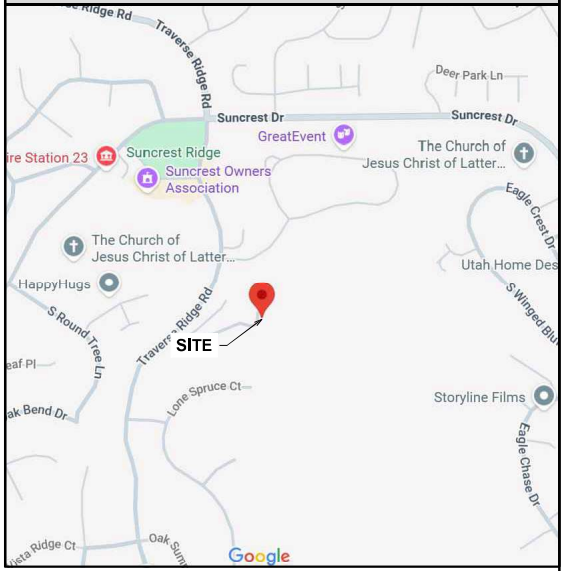
PACE NUMBER:
MRUTH078322, MRUTH078936, MRUTH079318, MRUTH078318, MRUTH079321, MRUTH079071, MRUTH078549, MRUTH078643

IWM NUMBER:
WSUTH0052426, WSUTH0052560, WSUTH0052573, WSUTH0052741, WSUTH0052255, WSUTH0052553, WSUTH0052777, WSUTH0052829

SITE ID NUMBER:
UTL02011

INDEX OF SHEETS

SITE MAP



SITE SUMMARY

SITE TYPE:	MODIFICATION
STRUCTURE TYPE:	WATER TANK
STRUCTURE OWNER:	VZW
STRUCTURE HEIGHT (AGL):	65.0'-0"±
OCCUPANCY TYPE:	UTILITY & MISCELLANEOUS (U)
STRUCTURE LATITUDE:	N 40° 28' 42.7794" (40.47855°)
STRUCTURE LONGITUDE:	W 111° 50' 01.0314" (-111.83362°)
JURISDICTION:	CITY OF DRAPER
COUNTY:	SALT LAKE
PARCEL ID:	110100063
GROUND ELEV. (NAVD 88):	6217.72'±

PREPARED BY:

ENGINEERED TOWER SOLUTIONS
3227 WELLINGTON COURT
RALEIGH, NC 27615
919-782-2710
www.ets-pllc.com

PROJECT MANAGER:

ANSCO & ASSOCIATES

PREPARED FOR:

AT&T

SITE NAME:
TRAVERSE_RIDGE

FA NUMBER:
12854507

SITE ADDRESS:
14955 TRAVERSE RIDGE ROAD
DRAPER, UT 84020

LATITUDE/LONGITUDE:
40.47855°, -111.83362°

SEAL:

REGISTERED PROFESSIONAL ENGINEER
No. 6042636-2203
RAPHAEL MOHAMED
STATE OF UTAH

08/28/2025

REV	DATE	DETAILS
0	08/28/2025	CONSTRUCTION
1		
2		
3		
4		
5		
6		

DRAWN BY: IK | CHECKED BY: FE

SHEET TITLE:
TITLE PAGE

SHEET # **T-1** | CURRENT REV #: 0 | ETS #: 25137849

GENERAL NOTES

1. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND CARRIER PROJECT SPECIFICATIONS.
2. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND SHALL CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED IN THESE DRAWINGS.
6. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISHED SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN IN THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
10. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
11. ERECTION SHALL BE DONE IN WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED IN THE DRAWINGS.
12. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
13. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
14. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
15. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
16. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
17. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
19. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
20. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NO LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.

GENERAL NOTES

21. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
22. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
23. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
24. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
25. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
26. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
29. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
30. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
31. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
32. STRUCTURE IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY CARRIER TECHNICIANS.
33. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
34. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CARRIER GROUNDING STANDARD. IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
35. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
36. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
37. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
38. ALL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
39. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.

ANTENNA MOUNTING NOTES

40. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
41. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
42. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
43. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
44. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
45. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
46. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND-00246.

TORQUE REQUIREMENTS

47. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
48. ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
    A. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
    B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.
49. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).
50. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).
51. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
52. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4-29.8 NM).
53. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7-2.3 NM).

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SHEET TITLE:

GENERAL NOTES I

SHEET # **GN-1**

CURRENT REV #: 0
ETS #: 25137849

COAXIAL CABLE NOTES

54. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.

55. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.

56. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERSION.

57. ALL JUMPERS TO THE ANTENNAS SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'-0".

58. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.

59. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.

60. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH INDUSTRY STANDARDS.

GENERAL CABLE AND EQUIPMENT NOTES

61. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.

62. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

63. CONTRACTOR SHALL REFERENCE THE STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.

64. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.

65. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
   A. TEMPERATURE SHALL BE ABOVE 50° F.
   B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
   C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
   D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.

66. ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.

67. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2" [.038M].

68. 90 SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).

69. USE 90 CONNECTOR AT CABLE CONNECTION TO ANTENNAS.

70. PLACE GPS ON ARM WITH SOUTHERN SKY EXPOSURE AT MINIMUM 6' [1.83] FROM TRANSMIT ANTENNA, WHICH IS 24" [.61M] AWAY FROM CENTER OF POLE.

71. USE 1/2" [.013M] CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.

72. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

FIBER & POWER CABLE MOUNTING

73. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM, NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.

74. THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION; WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.

75. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

ABBREVIATIONS

A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AGL	ABOVE GROUND LEVEL, ABOVE GRADE LEVEL
AWS	ADVANCED WIRELESS SERVICE
BBU	BATTERY BACKUP UNIT
BLDG	BUILDING
BLK	BLOCKING
CLG	CEILING
CLR	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
D	DEPTH
DBL	DOUBLE
DEG	DEGREE
Φ, DIA	DIAMETER
DIAG	DIAGONAL
DN	DOWN
DET	DETAIL
DWG	DRAWING
E	EXISTING
EA	EACH
ELEV, EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EXT	EXTERIOR
FIF	FIBER INTERFACE FRAME, FACILITY INTERFACE FRAME
FIN	FINISH
FLOUR	FLOURESCENT
FLR	FLOOR
FT	FOOT, FEET
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GRND	GROUND
GSM	GLOBAL SYSTEM MOBILE
GYP	GYPSUM BOARD
HORZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH, INCHES
INSUL	INSULATION
INT	INTERIOR
L	LENGTH
LBS	POUNDS
LTE	LONG TERM EVOLUTION
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MFR	MANUFACTURER
MCR	MANAGER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PCS	PERSONAL COMMUNICATION SERVICE
PDS	POWER DISTRIBUTION UNIT
PROJ	PROJECT
PROP	PROPERTY
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
REQ	REQUIRED
RF	RADIO FREQUENCY
RM	RAOOM
RO	ROUGH OPENING
RRJ	REMOTE RADIO HEAD
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SF	STAINLESS STEEL
SS	STAINLESS STEEL
STL	STEEL
SUSP	SUSPENDED
TMA	TOWER MOUNTED AMPLIFIER
TND	TINNED
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATION SERVICE
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WCS	WIRELESS COMMUNICATION SERVICE
WP	WATERPROOF

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SEAL:

REGISTERED PROFESSIONAL ENGINEER
No. 6042636-2203
RAPHAEL MOHAMED
STATE OF UTAH

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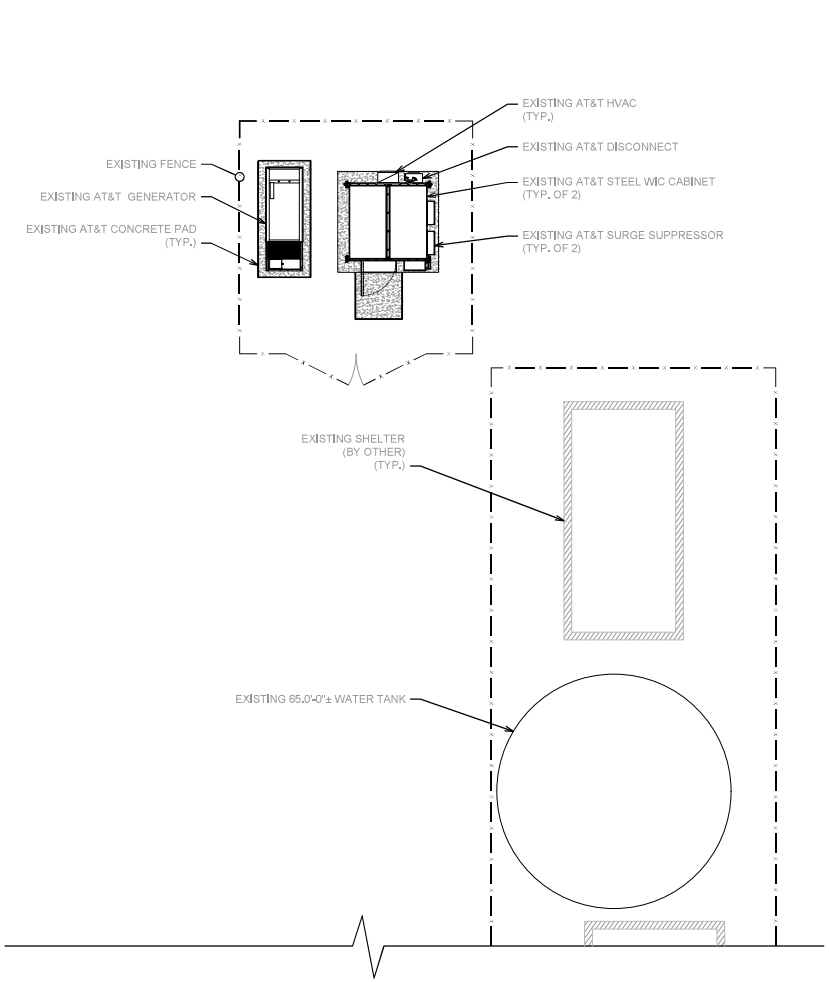
SHEET TITLE:

GENERAL NOTES II

SHEET # **GN-2** | CURRENT REV #: 0 | ETS #: 25137849

CONTRACTOR NOTES

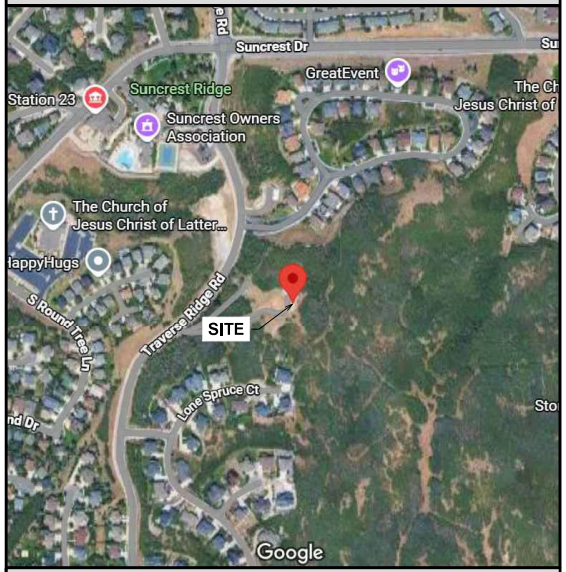
- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS, AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.
- CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN FOR PEDESTRIAN TRAFFIC AND WORK WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING VEHICLE PARKING AND EQUIPMENT STAGING.
- CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER.
- PRIOR TO INSTALLATION THE CONTRACTOR SHALL VERIFY THE PROPOSED WORK IS LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER FOR RESOLUTION.THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND REPAIR OF ANY CONSTRUCTION PERFORMED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY.
- UNDERGROUND LOCATION AND FIELD VERIFICATION OF EXISTING UTILITIES SHALL BE COMPLETED PRIOR TO STARTING CONSTRUCTION.



SITE PLAN

3/32" = 1'-0"

SITE MAP



LEGEND

- EASEMENT
- PROPERTY LINE
- UNDERGROUND GAS LINE
- UNDERGROUND POWER
- UNDERGROUND FIBER
- WOODEN FENCE
- METAL FENCE
- MAN-HOLE
- HYDRANT
- EXISTING UTILITY POLE
- PROPOSED UTILITY POLE
- EXISTING TRAFFIC LIGHT
- EXISTING LIGHT POLE

NOTES

1. SITE PLAN BASED ON PREVIOUS CONSTRUCTION DRAWING.
2. ALL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. CONTRACTOR TO VERIFY THAT ALL EXISTING INFORMATION IS AS INDICATED ON THE SITE PLAN, AND NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES. ALL PERTINENT ITEMS AND DIMENSIONS ARE RECOMMENDED TO BE VERIFIED IN THE FIELD. ENGINEERED TOWER SOLUTIONS, PLLC IS NOT LIABLE AND DOES NOT ASSUME RESPONSIBILITY FOR THIS CONTENT.

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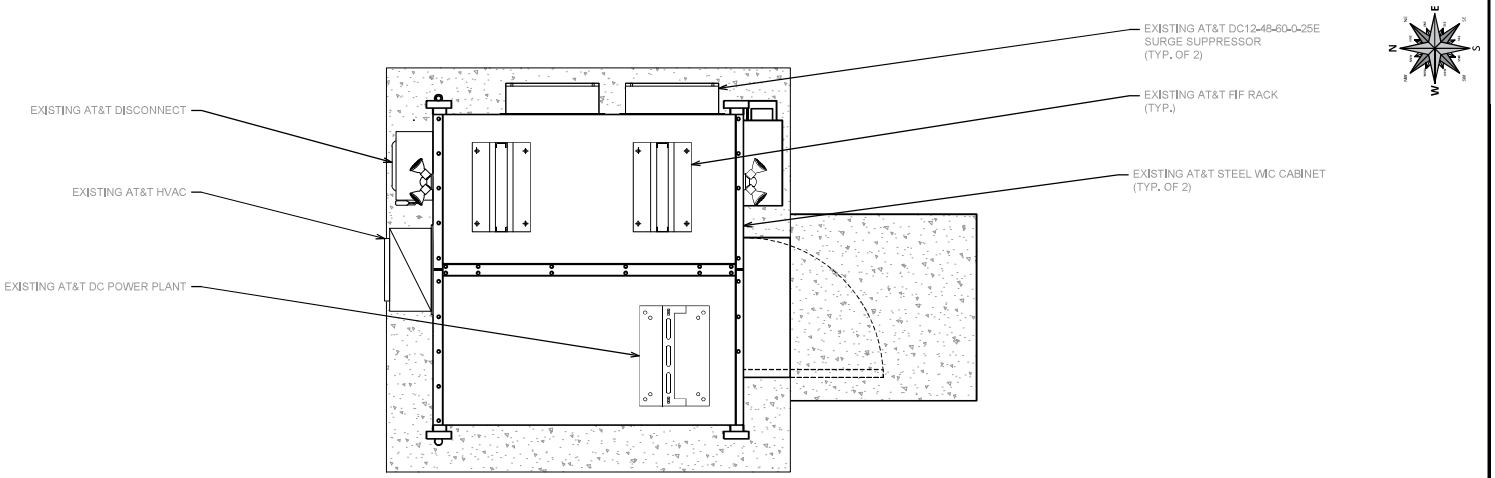
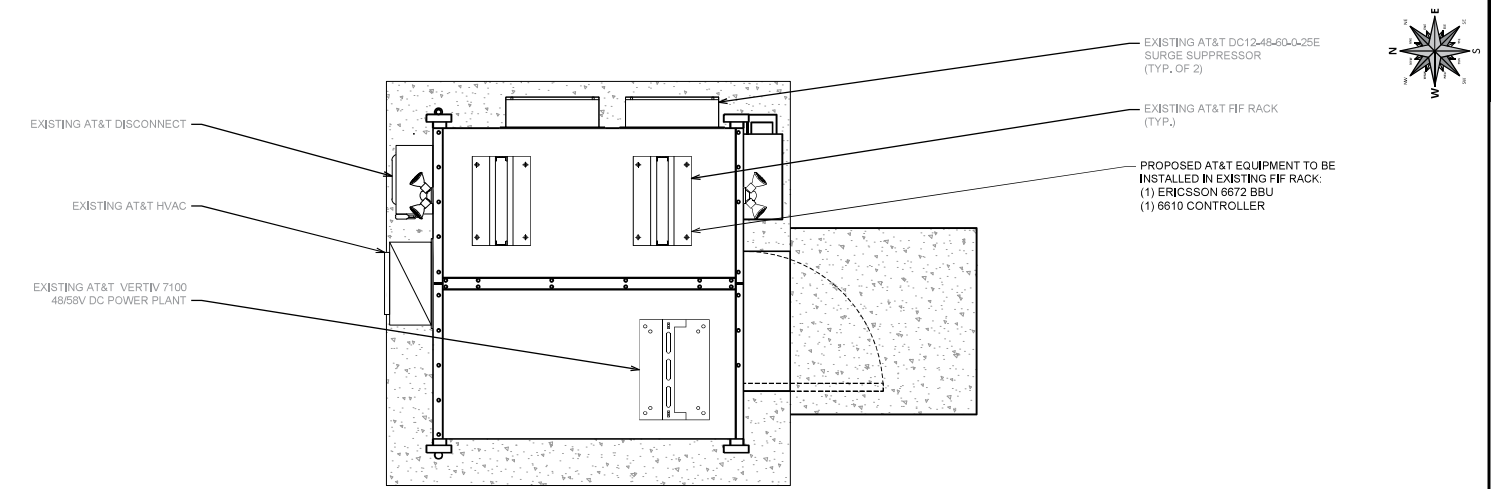
SITE PLAN

SHEET # C-1.1 | CURRENT REV #: 0 | ETS #: 25137849



EXISTING EQUIPMENT LAYOUT

3/8" = 1'-0"



PROPOSED EQUIPMENT LAYOUT

3/8" = 1'-0"

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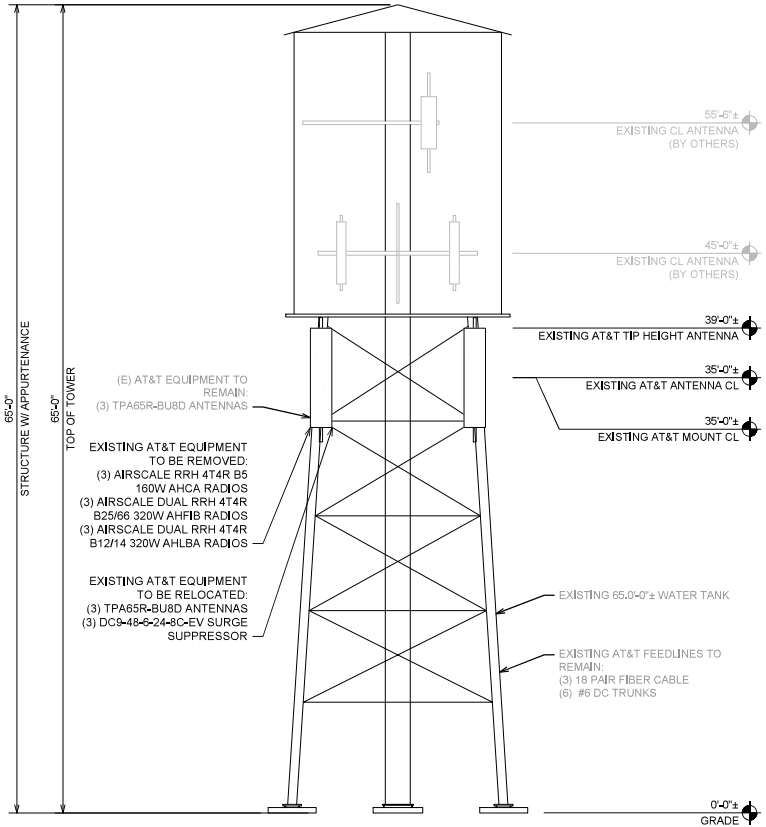
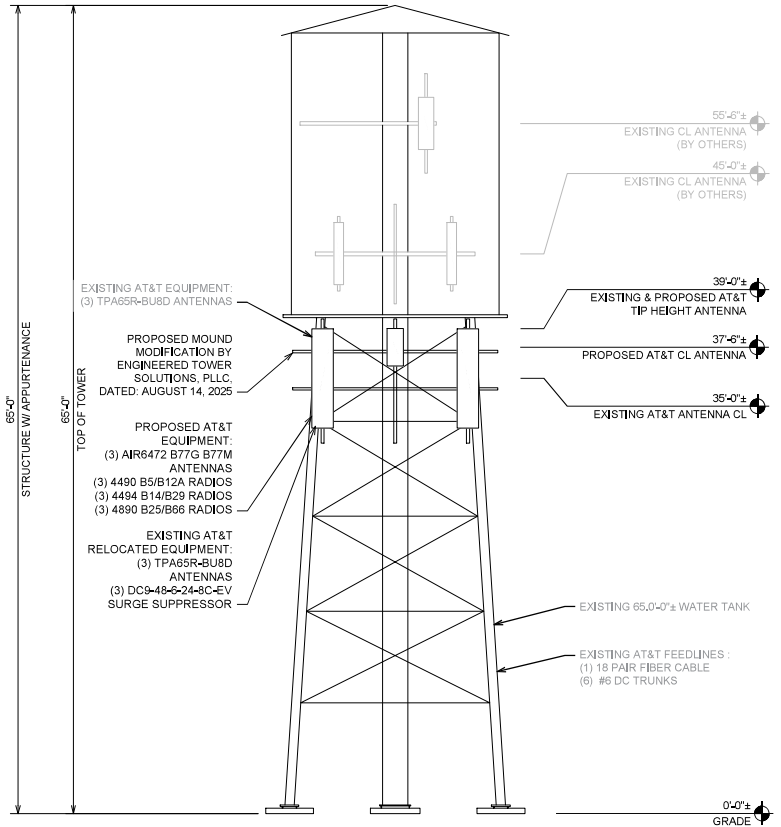
SHEET TITLE:
EXISTING & PROPOSED EQUIPMENT LAYOUT

SHEET #: **C-1.2**
CURRENT REV #: 0
ETS #: 25137849



EXISTING TOWER ELEVATION

1" = 10'



FINAL TOWER ELEVATION

1" = 10'

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SHEET TITLE:
TOWER ELEVATION

SHEET # **C-2**
CURRENT REV #: 0
ETS #: 25137849

EXISTING ANTENNA SCHEDULE

SECTOR	POSITION	TECHNOLOGY	ANTENNA MANUFACTURER MODEL NUMBER	ANTENNA AZIMUTH	ANTENNA CENTERLINE	SURGE SUPPRESSOR	RADIO/TMA MANUFACTURER MODEL NUMBER	CABLE (QTY.) TYPE	CABLE DIA.	CABLE LENGTH
ALPHA	A1	LTE - 700 / LTE - 1900 / LTE - AWS	CCI - TPA65R-BU8D	100°	35.0'±	RAYCAP - DC9-48-6-24-8C-EV	NOKIA - AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA NOKIA - AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB	(2) #6 DC POWER TRUNK (1) 18 PAIR FIBER TRUNK	7/8" 0.394"	45'±
	A2	LTE - 1900 / LTE - AWS / 5G - 850	CCI - TPA65R-BU8D	100°			NOKIA - AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB NOKIA - AIRSCALE RRH 4T4R B5 160W AHCA			
BETA	B1	LTE - 700 / LTE - 1900 / LTE - AWS	CCI - TPA65R-BU8D	235°		RAYCAP - DC9-48-6-24-8C-EV	NOKIA - AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA NOKIA - AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB	(2) #6 DC POWER TRUNK (1) 18 PAIR FIBER TRUNK	7/8" 0.394"	45'±
	B2	LTE - 1900 / LTE - AWS / 5G - 850	CCI - TPA65R-BU8D	235°			NOKIA - AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB NOKIA - AIRSCALE RRH 4T4R B5 160W AHCA			
GAMMA	C1	LTE - 700 / LTE - 1900 / LTE - AWS	CCI - TPA65R-BU8D	330°		RAYCAP - DC9-48-6-24-8C-EV	NOKIA - AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA NOKIA - AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB	(2) #6 DC POWER TRUNK (1) 18 PAIR FIBER TRUNK	7/8" 0.394"	45'±
	C2	LTE - 1900 / LTE - AWS / 5G - 850	CCI - TPA65R-BU8D	330°			NOKIA - AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB NOKIA - AIRSCALE RRH 4T4R B5 160W AHCA			

NOTES:

- INFORMATION PER RFDS DATED: 07/07/2025
- CONTRACTOR TO REFER TO MOST RECENT RADIO FREQUENCY DATA SHEET (RFDS) BY AT&T PRIOR TO COMMENCING WORK.

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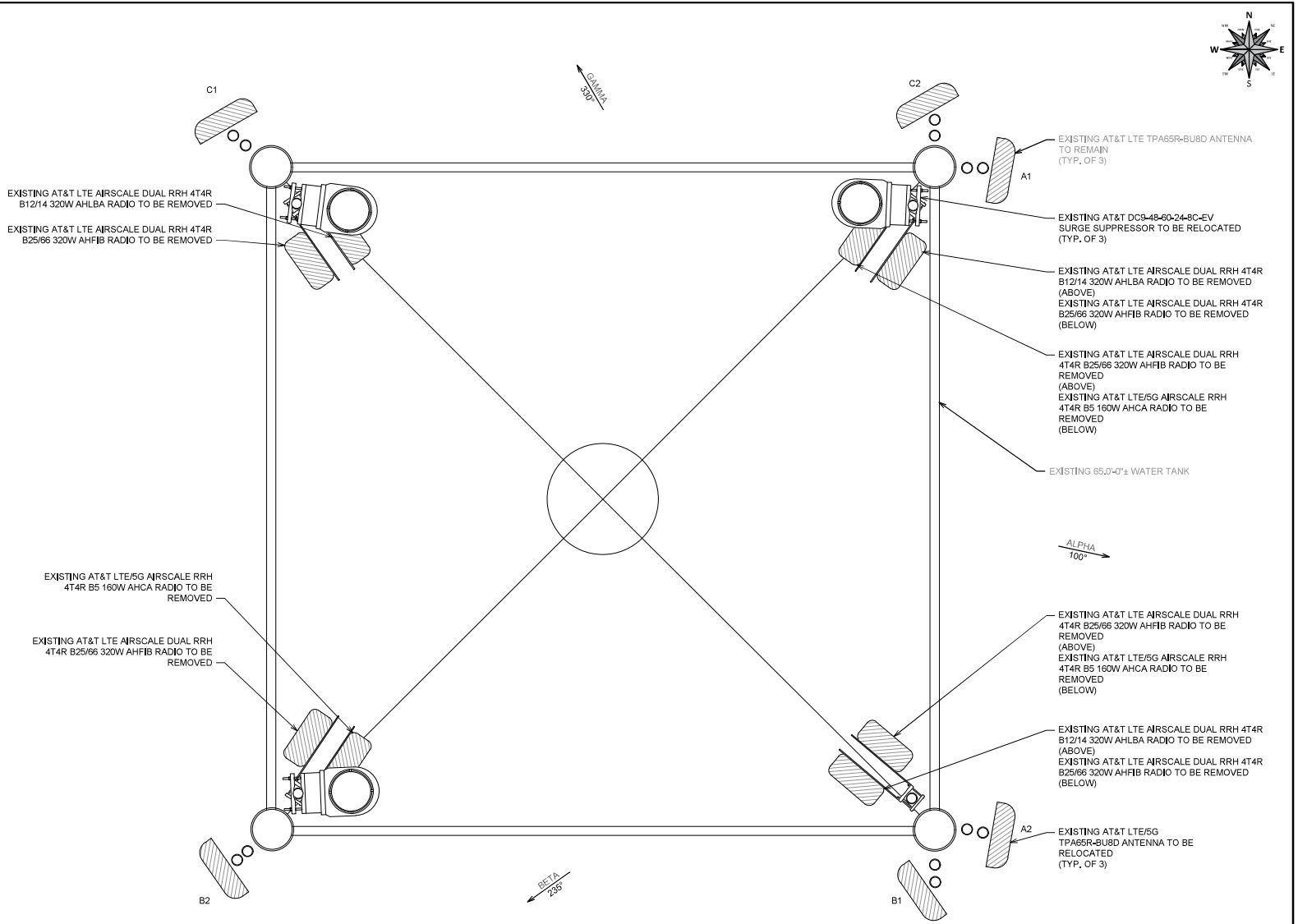
SHEET TITLE:

EXISTING ANTENNA SCHEDULE

SHEET # **C-3.1** | CURRENT REV #: 0 | ETS #: 25137849



EXISTING ANTENNA LAYOUT

1/2" = 1'-0"

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EXISTING ANTENNA LAYOUT

SHEET # **C-3.2** | CURRENT REV #: 0 | ETS #: 25137849

PROPOSED ANTENNA SCHEDULE

SECTOR	POSITION	TECHNOLOGY	ANTENNA MANUFACTURER MODEL NUMBER	ANTENNA AZIMUTH	ANTENNA CENTERLINE	SURGE SUPPRESSOR	RADIO/TMA MANUFACTURER MODEL NUMBER	CABLE (QTY.) TYPE	CABLE DIA.	CABLE LENGTH
ALPHA	A1	LTE - 700 / 5G - 850	CCI - TPA65R-BU8D	0°	35.0'±	RAYCAP - DC9-48-6-24-8C-EV	ERICSSON - 4490 B5/B12A	(1) #6 DC TRUNK (1) 18 PAIR FIBER CABLE	7/8" 0.394"	45'±
	A2	5G - CBAND	ERICSSON - AIR6472 B77G B77M	0°	37'-6"±		INTEGRATED WITHIN AIR6472	(1) #6 DC TRUNK	7/8"	
	A3	LTE - 700 / LTE - 1900 / LTE - AWS / 5G - 1900 / 5G - AWS	CCI - TPA65R-BU8D	0°	35.0'±		ERICSSON - 4494 B14/B29	#6 DC TRUNK (SHARED)	7/8"	
							ERICSSON - 4890 B25/B66	#6 DC TRUNK (SHARED)	7/8"	
BETA	B1	LTE - 700 / 5G - 850	CCI - TPA65R-BU8D	100°	35.0'±	RAYCAP - DC9-48-6-24-8C-EV	ERICSSON - 4490 B5/B12A	(1) #6 DC TRUNK (1) 18 PAIR FIBER CABLE	7/8" 0.394"	45'±
	B2	5G - CBAND	ERICSSON - AIR6472 B77G B77M	100°	37'-6"±		INTEGRATED WITHIN AIR6472	(1) #6 DC TRUNK	7/8"	
	B3	LTE - 700 / LTE - 1900 / LTE - AWS / 5G - 1900 / 5G - AWS	CCI - TPA65R-BU8D	100°	35.0'±		ERICSSON - 4494 B14/B29	#6 DC TRUNK (SHARED)	7/8"	
							ERICSSON - 4890 B25/B66	#6 DC TRUNK (SHARED)	7/8"	
GAMMA	C1	LTE - 700 / 5G - 850	CCI - TPA65R-BU8D	235°	35.0'±	RAYCAP - DC9-48-6-24-8C-EV	ERICSSON - 4490 B5/B12A	(1) #6 DC TRUNK (1) 18 PAIR FIBER CABLE	7/8" 0.394"	45'±
	C2	5G - CBAND	ERICSSON - AIR6472 B77G B77M	235°	37'-6"±		INTEGRATED WITHIN AIR6472	(1) #6 DC TRUNK	7/8"	
	C3	LTE - 700 / LTE - 1900 / LTE - AWS / 5G - 1900 / 5G - AWS	CCI - TPA65R-BU8D	235°	35.0'±		ERICSSON - 4494 B14/B29	#6 DC TRUNK (SHARED)	7/8"	
							ERICSSON - 4890 B25/B66	#6 DC TRUNK (SHARED)	7/8"	

NOTES:
- INFORMATION PER RFDS DATED: 07/07/2025
- CONTRACTOR TO REFER TO MOST RECENT RADIO FREQUENCY DATA SHEET (RFDS) BY AT&T PRIOR TO COMMENCING WORK.

PREPARED BY:
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3227 WELLINGTON COURT
RALEIGH, NC 27615
919-782-2710
www.ets-pllc.com

PROJECT MANAGER:
ANSCO & ASSOCIATES

PREPARED FOR:
AT&T

SITE NAME:
TRAVERSE_RIDGE

FA NUMBER:
12854507

SITE ADDRESS:
14955 TRAVERSE RIDGE ROAD
DRAPER, UT 84020

LATITUDE/LONGITUDE:
40.47855°, -111.83362°

SEAL:
REGISTERED PROFESSIONAL ENGINEER
No. 6042636-2203
RAPHAEL MOHAMED
STATE OF UTAH
08/28/2025

REV	DATE	DETAILS
0	08/28/2025	CONSTRUCTION
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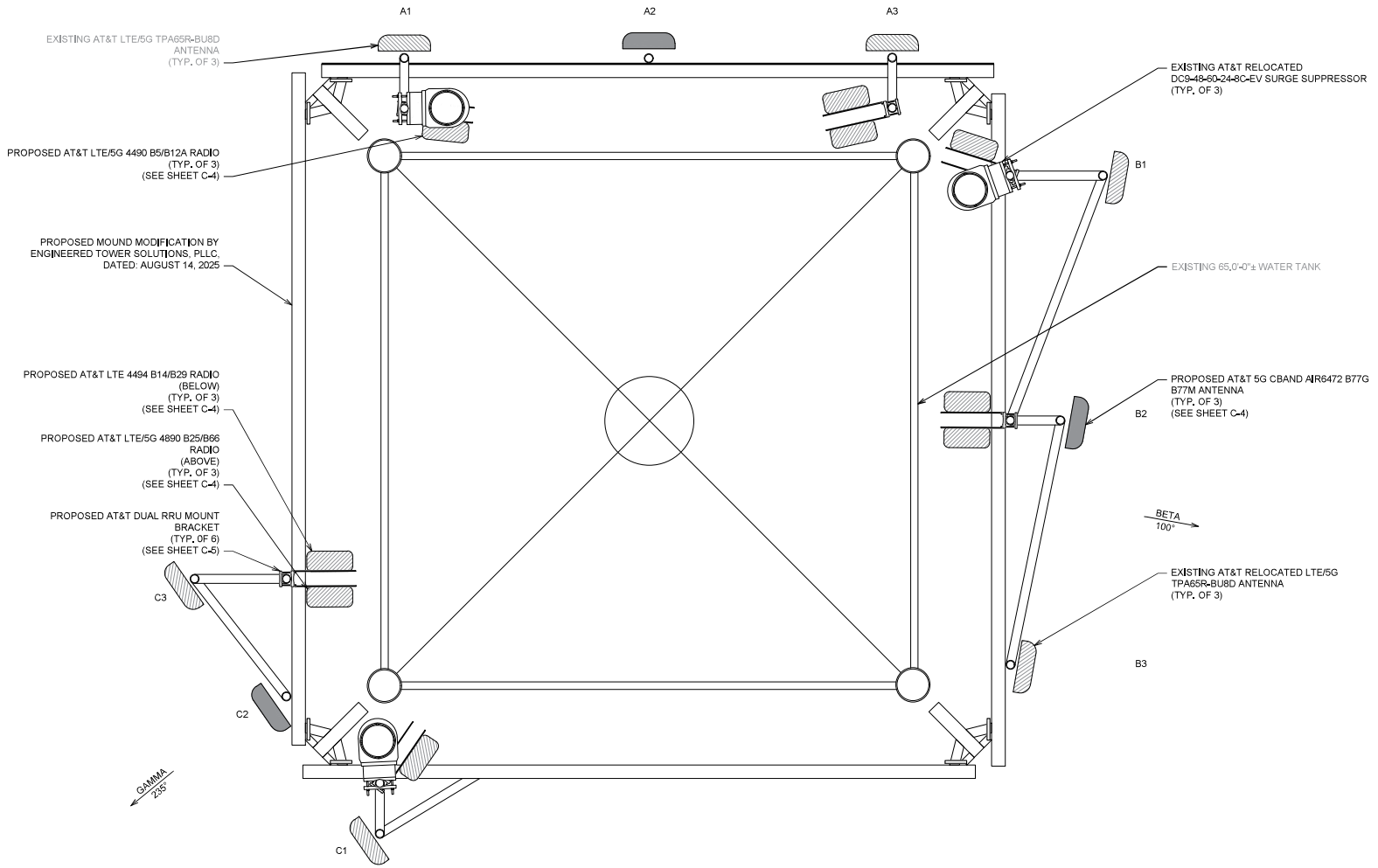
DRAWN BY: IK | CHECKED BY: FE

SHEET TITLE:
PROPOSED ANTENNA SCHEDULE

SHEET # C-3.3 | CURRENT REV #: 0 | ETS #: 25137849

NOTES:

1. REMOVE ALL EXISTING HARDWARE
2. INSTALL NEW FACE MOUNT HORIZONTALS
3. INSTALL NEW MOUNT PIPES
4. INSTALL PIPES ON STANDOFFS WITH RESPECTIVE TIEBACKS



PROPOSED ANTENNA LAYOUT

3/8" = 1'-0"

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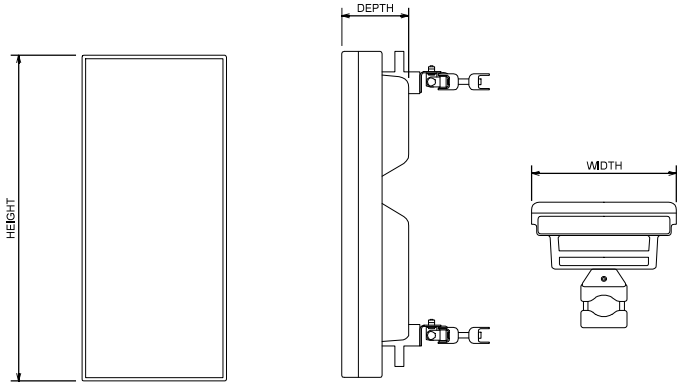
SHEET TITLE:

PROPOSED ANTENNA LAYOUT

SHEET # C-3.4 | CURRENT REV #: 0 | ETS #: 25137849

ERICSSON - AIR6472 B77G B77M

HEIGHT	WIDTH	DEPTH	WEIGHT
36.41"	16.14"	7.48"	92.59 LBS

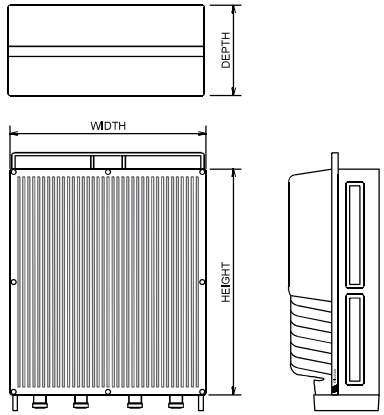


ANTENNA DETAIL

N.T.S.

ERICSSON - 4890

HEIGHT	WIDTH	DEPTH	WEIGHT
20.6"	15.7"	7.0"	69.50 LBS

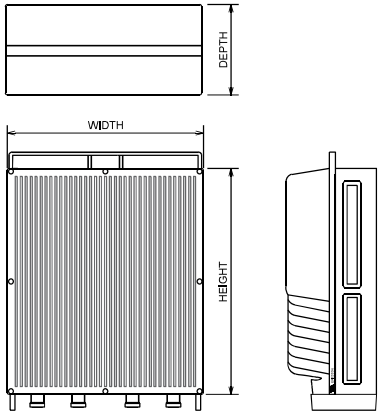


RADIO DETAIL

N.T.S.

ERICSSON - 4490

HEIGHT	WIDTH	DEPTH	WEIGHT
17.50"	15.20"	6.80"	68.40 LBS

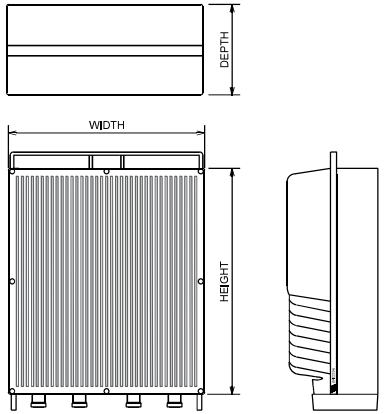


RADIO DETAIL

N.T.S.

ERICSSON - 4494

HEIGHT	WIDTH	DEPTH	WEIGHT
18.0"	16.0"	6.0"	57.33 LBS



RADIO DETAIL

N.T.S.

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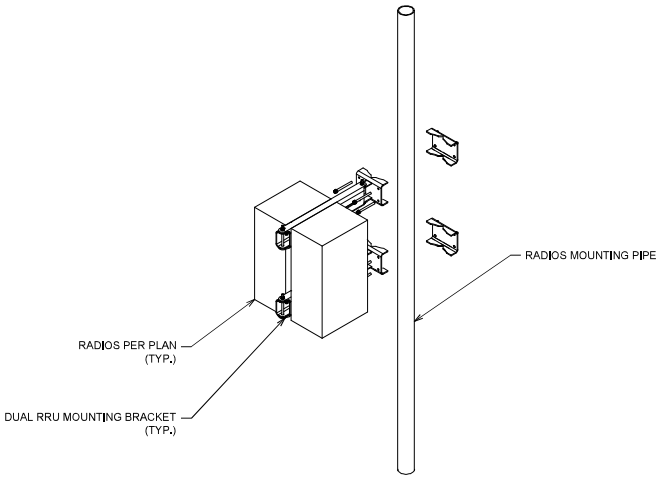
SHEET TITLE:

DETAILS I

SHEET # **C-4** | CURRENT REV #: 0 | ETS #: 25137849

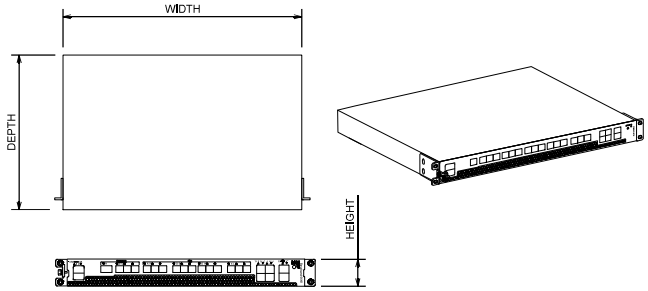


RADIOS MOUNTING DETAIL

N.T.S.

ERICSSON - BBU

HEIGHT	WIDTH	DEPTH	WEIGHT
1.70"	17.60"	9.40"	14.33 LBS



BASEBAND UNIT

N.T.S.

NOT USED

N.T.S.

NOT USED

N.T.S.

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DRAWN BY: IK | CHECKED BY: FE

SHEET TITLE:

DETAILS II

SHEET # **C-5**

CURRENT REV #: 0

ETS #: 25137849

GROUNDING NOTES

GROUNDING:

- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG COLOR CODED.
- METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED CONDUIT:
  - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE ½ LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
  - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
  - IT IS REQUIRED AND WILL THE BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY 811 OR OTHER SUCH UTILITY LOCATING AGENCY 3 DAYS BEFORE DIGGING.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE . THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FOURTH INCH (¼"). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
- UPON COMPLETION OF WORK, CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL, SUBMIT TEST REPORTS TO PROJECT MANAGER, CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- GROUNDING ELECTRODE SYSTEM
  - PREPARATION
    - SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
    - IF CONDUCTORS MUST RUN THROUGH CONDUIT. BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICON CAULK.
  - EXTERNAL CONNECTIONS
    - ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE , SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC) SHALL BE BY "ULTRAWELD" AND INSTALLED PER MANUFACTURERS RECOMMENDED PROCEDURES.
    - ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD), MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.
- GROUND RODS: ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.
- GROUND CONDUCTORS: ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS OTHERWISE NOTED.
- LUGS SHALL BE 2-HOLE LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #54___BE OR EQUIVALENT

-535 MCM DLO	54880BE
-262 MBM DLO	54872BE
-#1/0 DLO	54862BE
-#4/0 THWN AND BARE	54866BE
-#2/0 THWN	54862BE
-#2 THHN	54207BE
-#6 DLO	54205BE

- WHEN THE DIRECTOR OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART

GROUNDING CONDUCTOR SIZE	MIN. BENDING RADIUS TO INSIDE EDGE
NO.6 AWG TO NO.4 AWG	6 INCHES
NO. 2 AWG TO 1/0 AWG	8 INCHES
NO. 2/0 AWG TO 4/0 AWG	12 INCHES
250 MCM TO 750 MCM	24 INCHES

- GROUNDING RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS MUST BE SUBMITTED, TWO (2) SETS OF TEST DOCUMENTS FROM THE INDEPENDENT TESTING SERVICE ARE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION

GROUNDING GENERAL:

- CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT/ENGINEER LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
- ELECTRICAL PLANS, DETAILS, AND DIAGRAMS ARE DIAGRAMMATIC ONLY, VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OR ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL BOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.)
- MALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE IN THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "U.L." WHERE APPLICABLE. MATERIALS SHALL BE MET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "U.L." LISTED.
- ALL CONDUIT SHALL HAVE A PULL CORD.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINES, AND CIRCUITS.
- ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C
- THE THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC, NEC, AND ALL APPLICABLE CODES.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVERPLATES.

GROUNDING DIAGRAM NOTES:

- SUB-CONTRACTOR SHALL CONNECT CARRIER EQUIPMENT TO ONLY THE NEW GROUND DOWNLEAD INSTALLED BY GC. GROUND WIRE AND ROD FOR FIBER INSTALLATION BY FIBER PROVIDER.
- FOR OTHER POLES WITH EXISTING GROUND WIRE, THE CARRIER EQUIPMENT MAY BE CONNECTED TO EXISTING GROUND WIRE.
- FOR POLES WITHOUT EXISTING GROUND, THE GC WILL INSTALL NEW GROUND DOWNLEAD

UTILITY NOTES:

WORK INCLUDES:

THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS CELLULAR
SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING.

- THE PROVISIONS, INSTALLATION AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH SECONDARY GROUNDING, AND CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT.
- THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS.
- THE PROVISION AND INSTALLATION OF CONDUIT AND CONNECTIONS FOR LOCAL FIBER SERVICE.
- THE FURNISHING AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUCTORS, CONDUITS, METER SOCKET, AND CONNECTIONS TO THE SERVICE EQUIPMENT.
- ALL CONDUITS SHOULD BE LEFT WITH NYLON PULL CORD FOR FUTURE USE.
- EXCAVATION, TRENCHING, AND BACKFILLING FOR CONDUIT(S) CABLE(S) AND POLE WITH PIPE STRAPS. EXTERNAL GROUNDING SYSTEM.

CODES, PERMITS AND FEES:

ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY CONTRACTOR. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES: STATE, LOCAL, AND NATIONAL AND THE DESIGN, PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE
VARIOUS APPLICABLE STANDARD SPECIFICATION OF THE FOLLOWING AUTHORITIES:

N.E.C.	NATIONAL ELECTRICAL CODE
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
I.E.E.E.	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
N.E.M.A.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
U.L.	UNDERWRITERS LABORATORIES, INC
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION

RACEWAYS AND WIRING:

WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ARCHITECT/ENGINEER UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THWN, SIZED IN ACCORDANCE WITH THE NATURAL ELECTRICAL CODE AND LOCAL CODES.

- RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.
- PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE PROPOSED 4-CIRCUIT INSTALLATION OF RACEWAYS AND WIRING. PROVIDE JUNCTION AND PULLBOXES 60A LOAD CENTER FOR CONDUIT RUNS WITH MORE THAN (360) DEGREES OF BENDS.
- PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
- ALL PVC CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.

GENERAL NOTES:

SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC.
TO ARCHITECT/ENGINEER BEFORE SUBMITTING BID. ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WIRE
DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

COORDINATION WITH UTILITY COMPANY:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR A COMPLETE OPERATIONS SYSTEM. INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCKETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC.
PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS, THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY OPTIONAL OR EXCESS FACILITY CHARGES ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY. VERIFY BEFORE BIDDING TO INCLUDE ALL COSTS, THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY
COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL REQUIRED TO COORDINATE WITH AVAILABLE FAULT CURRENT FROM LOCAL UTILITY COMPANY.

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SHEET TITLE:

GROUNDING NOTES

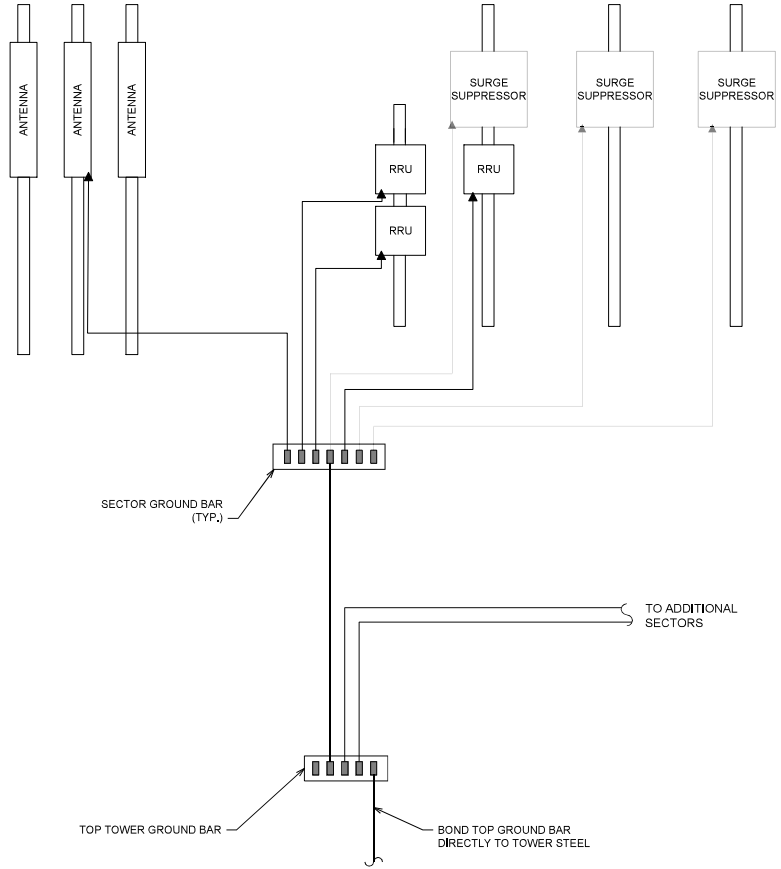
SHEET # **G-1**

CURRENT REV #: 0
ETS #: 25137849

GROUNDING NOTES (CONTINUED)

GENERAL GROUNDING NOTES:

1. ALL LIGHTNING GROUNDING OF THE ELECTRIC EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT NFPA STANDARDS.
2. ALL GROUNDING LUG COMPRESSION CONNECTIONS SHALL BE COATED WITH ANTI-OXIDANT AGENT, SUCH AS NO-OX NOALOX, PENETROX OR KOPRSHIELD.
3. ALL EXTERIOR GROUNDING CONDUCTORS INCLUDING EXTERIOR GROUND RING SHALL BE #2 AWG SOLID BARE TINNED COPPER. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. THE RADIUS OF ANY BEND SHALL NOT BE LESS THAN 8" AND THE ANGLE OF ANY BEND SHALL NOT EXCEED 90°. GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD THE BURIED GROUND RING.
4. REPAIR ALL GALVANIZED SURFACE THAT HAVE BEEN DAMAGED BY THERMO-WELDING WITH ERICO T-319 GALVANIZING BAR.
5. ALL EXTERIOR GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED. ALL EXOTHERMIC WELDS TO EXTERIOR GROUND RING SHALL BE PARALLEL TYPE, EXCEPT FOR THE GROUND RODS WHICH ARE THE EXOTHERMIC WELDS. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY EXOTHERMIC WELDING. USE SPRAY GALVANIZER SUCH AS HOLUB LECTROSOL #15-501.
6. SITE GROUNDING SHALL COMPLY WITH CARRIER STANDARDS. LATEST EDITION, AND COMPLY WITH CARRIER GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.
7. COAXIAL TRANSMISSION LINE GROUNDING:
   - 7.1. VERTICAL RUNS THAT ARE 75' OR LESS SHALL REQUIRE A GROUNDING KIT AT THE TOP AND BOTTOM OF TOWER.
   - 7.2. VERTICAL RUNS THAT ARE GREATER THAN 75' SHALL REQUIRE A GROUNDING KIT (IN ADDITION TO THE ABOVE) FROM THE TOP EVERY 75' TOWARDS THE GROUND UNTIL THE DISTANCE IS LESS THAN 75' FROM THE GROUND (NOT FOR CABLES INSIDE MONOPOLE).
   - 7.3. SURGE ARRESTOR IS PROVIDED BY OTHERS AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL MAKE ALL CONNECTIONS REQUIRED FOR INSTALLATION.
   - 7.4. ALL GROUNDING KITS SHALL BE PROVIDED BY OTHERS AND INSTALLED BY CONTRACTOR.
8. INSTALLATION AND TESTING:
   - 8.1. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IMMEDIATELY IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO FIELD CONDITIONS.
   - 8.2. CONTRACTOR SHALL NOT COVER UP GROUND RING AND CONNECTIONS UNTIL AN INSPECTION HAS BEEN PERFORMED. COORDINATE INSPECTION WITH CONSTRUCTION MANAGER.
   - 8.3. PROVIDE TESTING OF GROUNDING SYSTEM AS DIRECTED BY CONSTRUCTION MANAGER.
9. THE MAXIMUM ALLOWABLE RESISTANCE READING SHALL BE 5 OHMS TO GROUND. IF THE RESISTANCE OF THE ENTIRE GROUNDING SYSTEM AS MEASURED AT THE ARRESTOR BRACKET EXCEEDS 5.0 OHMS TO GROUND, THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL BE NOTIFIED SO THAT ADDITIONAL GROUND LOCATIONS CAN BE UTILIZED.



NOTE:
REFER TO PROPOSED ANTENNA LAYOUT ON SHEET C-3.4 FOR EXACT # OF ANTENNAS, RRUs & SURGE SUPPRESSORS

ANTENNA & GROUNDING DETAIL

N.T.S.

PREPARED BY:
ENGINEERED TOWER SOLUTIONS
3227 WELLINGTON COURT
RALEIGH, NC 27615
919-782-2710
www.ets-pllc.com

PROJECT MANAGER:
ANSCO & ASSOCIATES

PREPARED FOR:
AT&T

SITE NAME:
TRAVERSE_RIDGE

FA NUMBER:
12854507

SITE ADDRESS:
14955 TRAVERSE RIDGE ROAD
DRAPER, UT 84020

LATITUDE/LONGITUDE:
40.47855°, -111.83362°

SEAL:
REGISTERED PROFESSIONAL ENGINEER
No. 6042636-2203
RAPHAEL MOHAMED
STATE OF UTAH
08/28/2025

REV	DATE	DETAILS
0	08/28/2025	CONSTRUCTION
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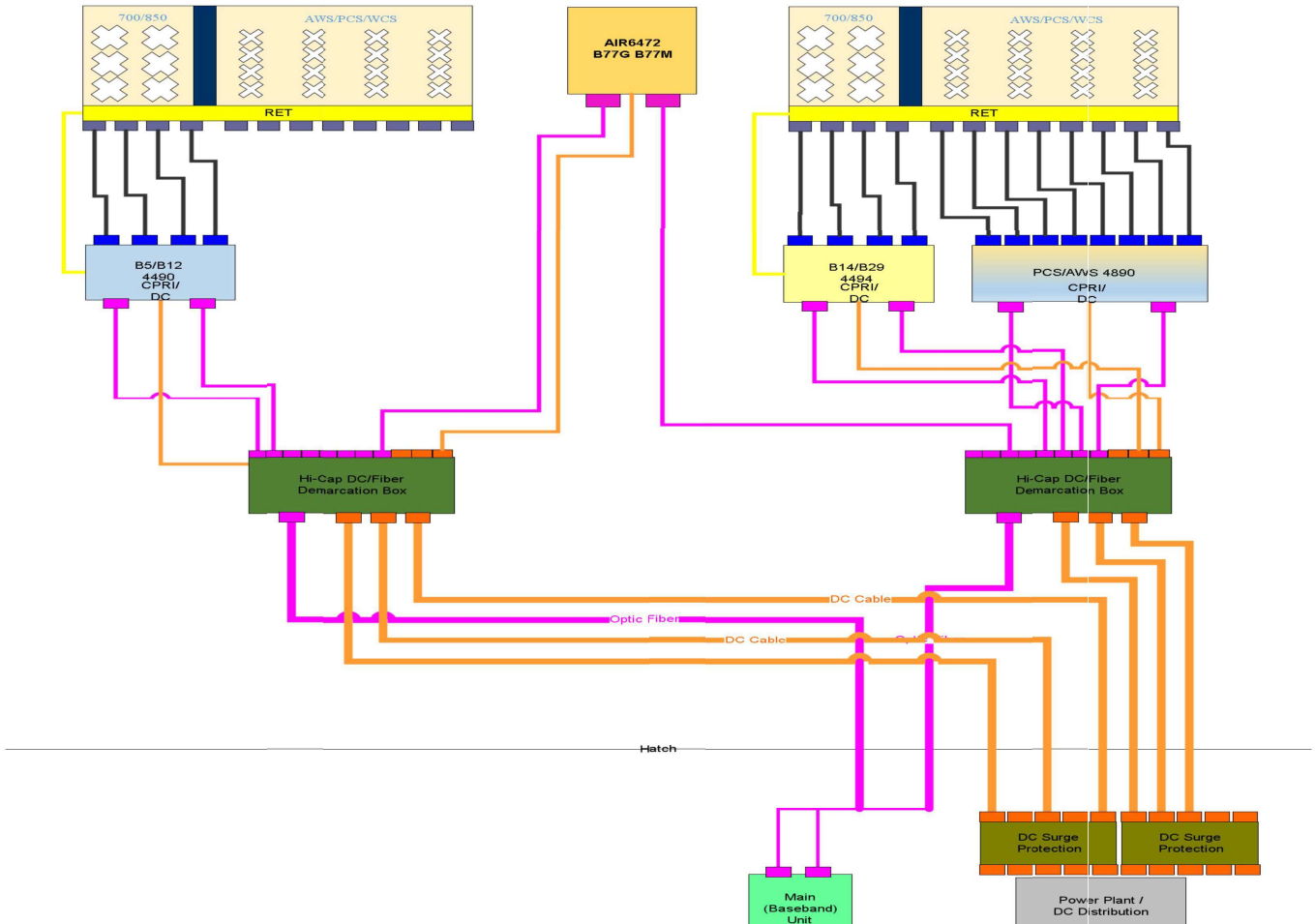
DRAWN BY: IK | CHECKED BY: FE

SHEET TITLE:
GROUNDING DETAILS

SHEET # **G-2** | CURRENT REV #: 0 | ETS #: 25137849


700/850
AWS/PCS/WCS
RET
AIR6472
B77G B77M
700/850
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RET
B5/B12
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CPRI/
DC
B14/B29
4494
CPRI/
DC
PCS/AWS 4890
CPRI/
DC
Hi-Cap DC/Fiber
Demarcation Box
Hi-Cap DC/Fiber
Demarcation Box
DC Cable
Optic Fiber
DC Cable
Hatch
DC Surge
Protection
DC Surge
Protection
Main
(Baseband)
Unit
Power Plant /
DC Distribution

MOUNT MODIFICATION DRAWINGS

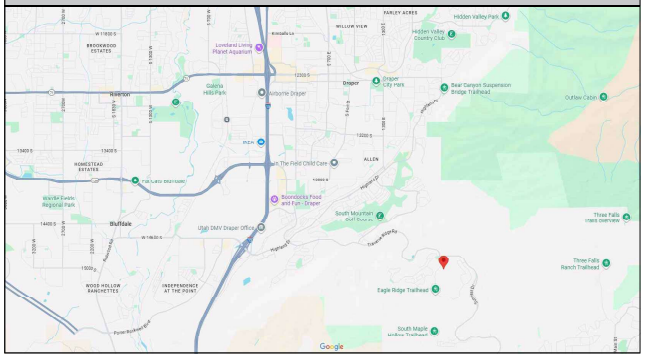
AT&T DESIGNATION

AT&T SITE NAME	UTL02011 / TRAVERSE RIDGE
AT&T SITE NUMBER	252651
FA NUMBER	12854507

SITE INFORMATION

SITE ADDRESS	14955 TRAVERSE RIDGE RD DRAPER, UT 84020 SALT LAKE COUNTY
LAT. / LONG.	N 40.478556° W 111.833611°
ETS JOB#:	25137849.STR.8044
STRUCTURE HEIGHT & TYPE:	65.0 FT WATER TOWER
MOUNT ELEVATION:	35.5 FT

LOCATION MAP



DRIVING DIRECTIONS

FROM DRAPER, HEAD SOUTH ON 1300 E (1.5 MI). TURN RIGHT ONTO HIGHLAND DR (0.2 MI). TURN LEFT ONTO S RAMBLING RD (0.8 MI). AT THE TRAFFIC CIRCLE, TAKE THE 1ST EXIT ONTO S 1725 E/S MIKE WEIR DR (1.5 MI). TURN LEFT ONTO TRAVERSE RIDGE RD (2.5 MI). TURN LEFT (52 FT). CONTINUE STRAIGHT (0.1 MI). WATER TOWER WILL BE ON THE RIGHT.

PROJECT CONTACTS

1. CLIENT REPRESENTATIVE

   KRISTEN SCHLAUD
   PROGRAM MANAGER OPERATIONS

   ANSCO & ASSOCIATES, LLC

   KRISTEN.SCHLAUD@ANSCOLLC.COM

2. CONSTRUCTION MANAGER
   TBD

3. ENGINEER OF RECORD (EOR)

   RAPHAEL I. MOHAMED, P.E.

   3227 WELLINGTON CT.
   RALEIGH, NC 27615
   OFFICE: (919) 782-2710

   RAPHAEL.MOHAMED@ETS-PLLC.COM

CODE COMPLIANCE

THIS REINFORCEMENT DESIGN IS BASED ON THE REQUIREMENTS OF TIA STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES USING:

TIA CODE	TIA-222-H
ULTIMATE WIND SPEED	103 MPH
ICE THICKNESS	0.25 IN
WIND SPEED WITH ICE	40 MPH
EXPOSURE CATEGORY	C
RISK CATEGORY	II
TOPOGRAPHIC CATEGORY	1
SPECIAL NOTES	-

SHEET INDEX

SHEET #	REV. (DATE)	DESCRIPTION
T-1	0 - 08/14/2025	TITLE PAGE
N-1	0 - 08/14/2025	PROJECT NOTES
BOM	0 - 08/14/2025	BILL OF MATERIALS
S-1	0 - 08/14/2025	MOUNT MODIFICATION SCHEDULE
S-2	0 - 08/14/2025	MOUNT PHOTOS
-	-	-
-	-	-
-	-	-
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-	-	-

PREPARED BY:

ENGINEERED TOWER SOLUTIONS

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PREPARED FOR:

ANSCO

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No. 6042636-2203
RAPHAEL MOHAMED
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DRAWN BY: EDR | CHECKED BY: CIH

SHEET TITLE:
TITLE PAGE

SHEET # T-1 | CURRENT REV #: 0
ETS #: 25137849.STR.8044

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL NOTES

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO:
      KOUSTHUB,MAHENDRA@ETS-PLLC.COM
   b. PROVIDE ETS PROJECT # AND PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION, ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
13. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

PROJECT NOTES

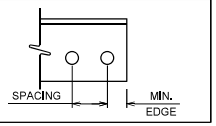
1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
8. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
9. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
10. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, THEREFOR NO HANDICAP ACCESS IS REQUIRED.

NOMINAL HOLE DIMENSIONS

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT
½	9/16	9/16 x 1/16
5/8	11/16	11/16 x 7/8
¾	13/16	13/16 x 1
7/8	15/16	15/16 x 1⅛
1	1 1/16	1 1/16 x 1 5/16

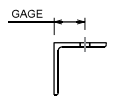
BOLT EDGE AND SPACING

BOLT DIAMETER	MIN EDGE	SPACING
½	⅞	1½
⅝	1⅛	1⅞
¾	1¼	2¼
⅞	1½	2⅝
1	1¾	3

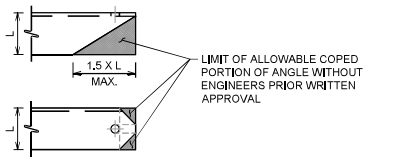


WORKABLE GAGES

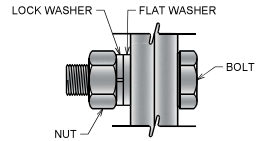
LEG LENGTH	GAGE
4	2½
3½	2
3	1¾
2½	1⅜
2	1⅛
1¾	1



ALLOWABLE COPING



TYP. BOLT ASSEMBLY



NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

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DRAWN BY: EDR | CHECKED BY: CIH

SHEET TITLE:
PROJECT NOTES

SHEET # N-1
CURRENT REV #: 0
ETS #: 25137849,STR,8044

BILL OF MATERIALS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	PIECE WEIGHT (LBS)	TOTAL WEIGHT (LBS)	NOTES
1	SITE PRO 1	FACE-ASY4-NP	UNIVERSAL FACE PIPE MOUNT ASSEMBLY	1134.00	1134.00	
15	SITE PRO 1	P30120 / ANT.16008	10'-0" LONG P2.5 STD A53 GR. B	60.83	912.45	
18	SITE PRO 1	SCX45-K / ANT.59941	CROSSOVER KIT	9.92	178.56	
2	SITE PRO 1	P296 / ANT.55983	8'-0" LONG P2.0 STD A53 GR. B	30.69	61.38	
4	SITE PRO 1	SCX2-K / CEQ.53317	CROSSOVER KIT	8.39	33.56	
4	SITE PRO 1	SOPTP12-U / ANT.59978	PIPE TO PIPE STANDOFF KIT	32.49	129.96	
8	SITE PRO 1	SOPTP24-U / ANT.59971	PIPE TO PIPE STANDOFF KIT	44.35	354.80	
2	COMMSCOPE	SKA-TBK / ANT.59284	TIEBACK ASSEMBLY	30.18	60.36	
8	-	-	16'-6" LONG P3.0 STD A53 GR. B	131.25	1050.00	
				TOTAL WEIGHT (LBS) =	3915.07	

NOTE:

1. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.
2. ALL PARTS ARE GALVANIZED UNLESS NOTED OTHERWISE.

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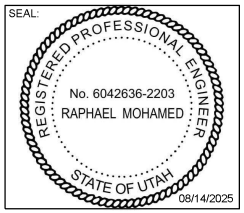

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DRAWN BY: EDR | CHECKED BY: CIH

SHEET TITLE:
BILL OF MATERIALS

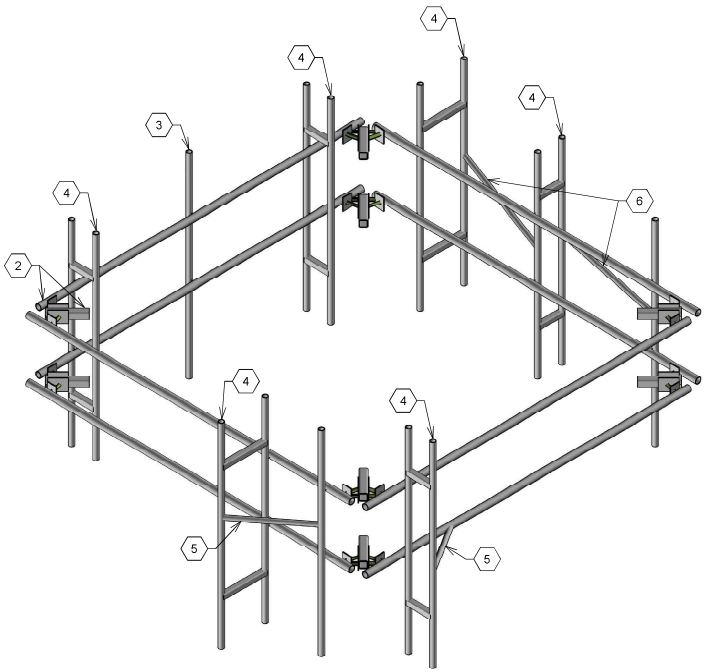
SHEET # BOM | CURRENT REV #: 0
ETS #: 25137849.STR.8044

MODIFICATION SCHEDULE

NO.	MODIFICATION DESCRIPTION	ELEVATION (FT)
1	REMOVE ALL EXISTING PIPE MOUNTS AND RELATED HARDWARE.	35.5
2	INSTALL 16'-6" LONG P3.0 STD A53 GR. B FACE HORIZONTAL PIPES. CONNECT TO EXISTING TOWER LEGS WITH UNIVERSAL FACE PIPE MOUNT ASSEMBLY (FACE-ASY4-NP).	
3	INSTALL 10'-0" LONG P2.5 STD A53 GR. B (P30120) MOUNT PIPES. CONNECT TO NEW FACE HORIZONTAL PIPES WITH CROSSOVER KIT (SCX45-K).	
4	INSTALL 10'-0" LONG P2.5 STD A53 GR. B (P30120) STANDOFF MOUNT PIPES. CONNECT TO NEW MOUNT PIPES PIPE TO PIPE STANDOFF CONNECTIONS (SOPTP12-U, SOPTP24-U). SEE PLAN VIEW FOR LOCATIONS.	
5	INSTALL SHORT STANDOFF PIPE TIEBACKS (SKA-TBK). CONNECT TO STANDOFF PIPE AND MOUNT PIPE/FACE HORIZONTAL PIPE. SEE ISOMETRIC VIEW FOR LOCATIONS.	
6	INSTALL LONG STANDOFF PIPE TIEBACKS (P296). CONNECT TO STANDOFF MOUNT PIPES AND ADJACENT MOUNT PIPES WITH CROSSOVER KIT (SCX2-K).	

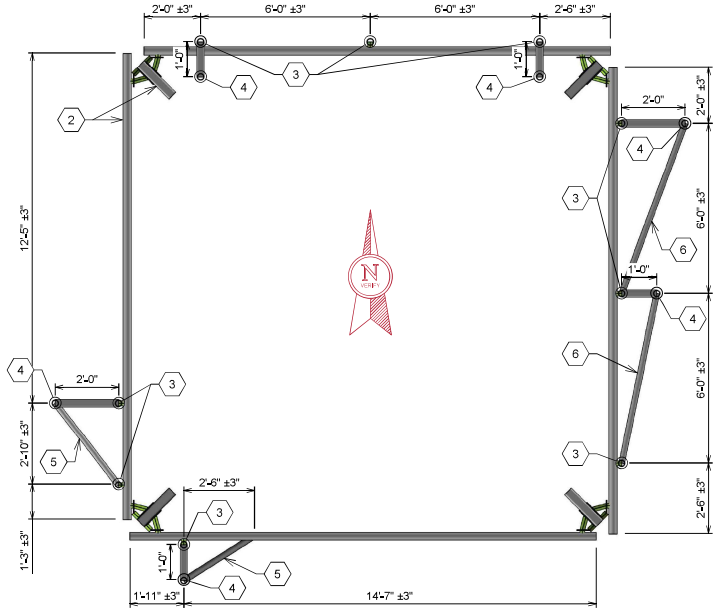
NOTES:

1. ANTENNAS AND OTHER APPURTENANCES MAY NEED TO BE TEMPORARILY REMOVED OR MOVED DURING MODIFICATION INSTALLATION.
2. FIELD VERIFICATION OF ALL MEASUREMENTS REQUIRED PRIOR TO FABRICATION.
3. PRIOR TO FABRICATION AND INSTALLATION, CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS.
4. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN 15TH EDITION.
5. MEMBERS IN BLUE ARE NEW MEMBERS AND MEMBERS IN AQUA, IF SHOWN, ARE MEMBERS BEING RELOCATED. SOME MOUNT MEMBERS MAY NOT BE SHOWN FOR CLARITY U.N.O.
6. ALL GALVANIZED SURFACES DAMAGED BY TRIMMING OR DRILLING SHALL BE REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE).



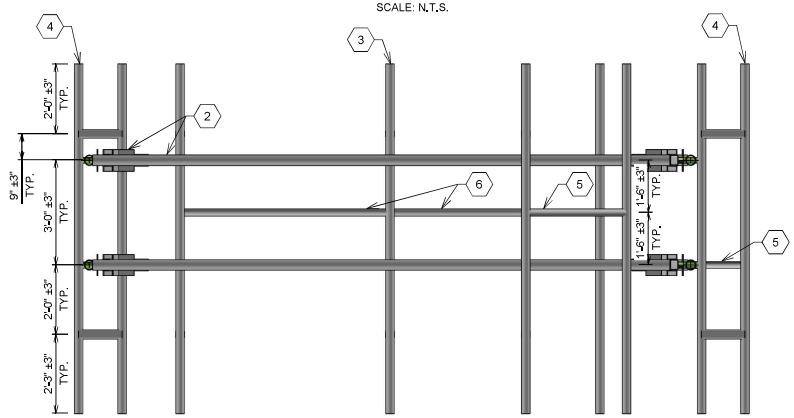
PROPOSED MOUNT ISOMETRIC VIEW

SCALE: N.T.S.



PROPOSED MOUNT PLAN VIEW

SCALE: N.T.S.



PROPOSED MOUNT SIDE VIEW

SCALE: N.T.S.

PREPARED BY:

ENGINEERED TOWER SOLUTIONS

3227 WELLINGTON COURT
RALEIGH, NC 27615
o: 919-782-2710, f: 919-435-0631
www.ets-pllc.com

PREPARED FOR:

ANSCO

SITE NAME:
UTL02011 / TRAVERSE RIDGE
SITE NUMBER:
12854507
SITE ADDRESS:
14955 TRAVERSE RIDGE RD
DRAPER, UT 84020
LATITUDE/LONGITUDE:
N 40.478556°, W 111.833611°

SEAL:

REGISTERED PROFESSIONAL ENGINEER
No. 6042636-2203
RAPHAEL MOHAMED
STATE OF UTAH
08/14/2025

REV	DATE	DETAILS
0	08/14/2025	FOR CONSTRUCTION
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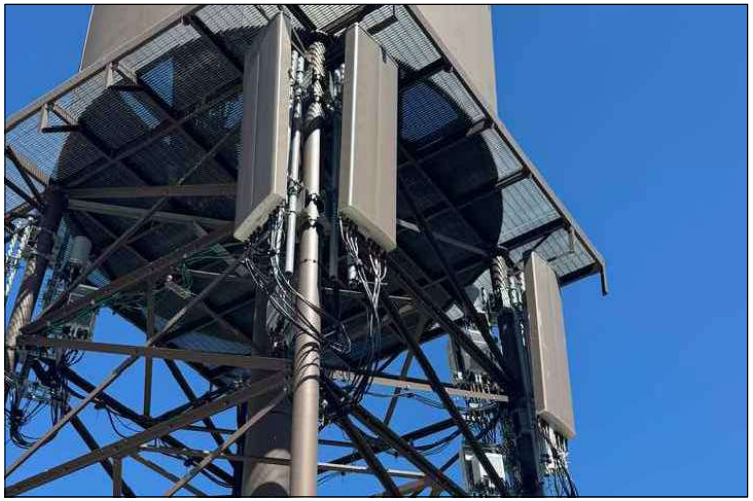
DRAWN BY: EDR | CHECKED BY: CIH

SHEET TITLE:
MOUNT MODIFICATION SCHEDULE

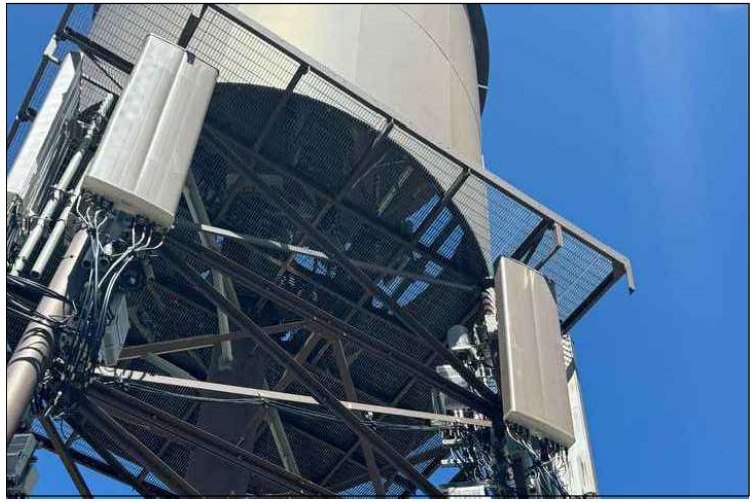
SHEET # S-1 | CURRENT REV #: 0 | ETS #: 25137849.STR.8044



MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3



MOUNT PHOTO 4

PREPARED BY:

ENGINEERED TOWER SOLUTIONS

3227 WELLINGTON COURT
RALEIGH, NC 27615
o: 919-782-2710, f: 919-435-0631
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PREPARED FOR:

ANSCO

SITE NAME:
UTL02011 / TRAVERSE RIDGE
SITE NUMBER:
12854507
SITE ADDRESS:
14955 TRAVERSE RIDGE RD
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LATITUDE/LONGITUDE:
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No. 6042636-2203
RAPHAEL MOHAMED
STATE OF UTAH
08/14/2025

REV	DATE	DETAILS
0	08/14/2025	FOR CONSTRUCTION
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DRAWN BY: EDR | CHECKED BY: CIH

SHEET TITLE:

MOUNT PHOTOS

SHEET # S-2 | CURRENT REV #: 0 | ETS #: 25137849.STR.8044

1.0 GENERAL NOTES
- 1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS [X. X]
- 1.2 FOR PATENT INFO: https://www.cs-pat.com

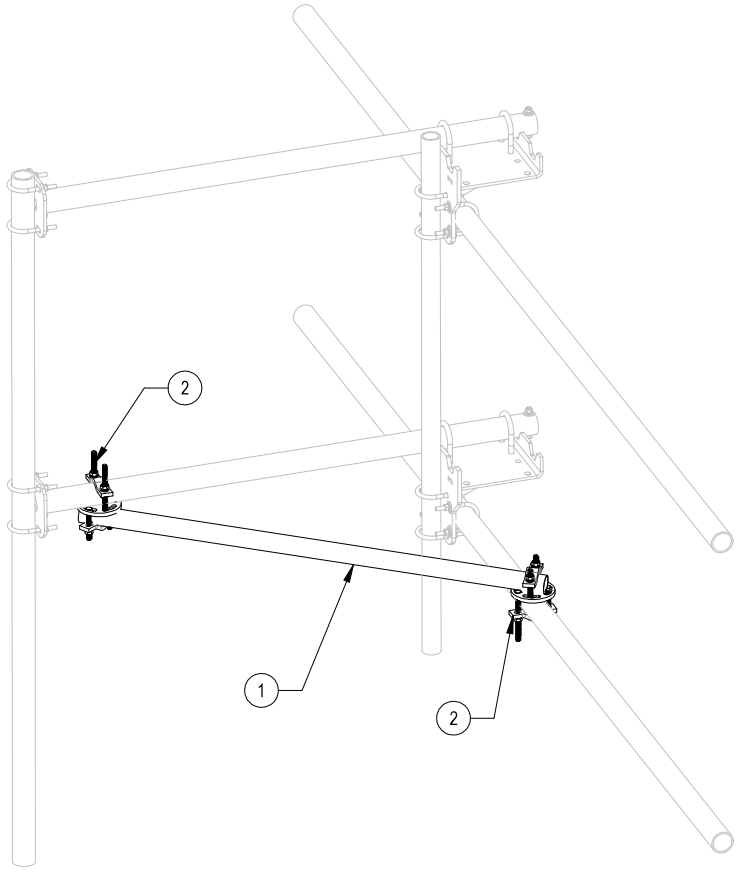
2.0 DESIGN NOTES
- 2.1 ANY HAZARDS OR OBSTRUCTIONS TO THE CLIMBING FACILITY AND SAFETY CLIMB MUST BE IDENTIFIED PRIOR TO INSTALLING THE APPURTENANCE. ADDITIONAL PRODUCTS MAY BE REQUIRED TO MAINTAIN THE INTEGRITY OF THE SAFETY CLIMB. DURING INSTALLATION, TEMPORARY AND/OR PERMANENT PRECAUTIONARY MEASURES SHOULD BE TAKEN TO PRESERVE THE CLIMBING FACILITY AND/OR SAFETY CLIMB.

3.0 MANUFACTURING/SPECIAL REQUIREMENTS
- 3.1 TIGHTEN ALL BOLTS SECURING FLAT PLATES BY THE TURN-OF-NUT METHOD. TIGHTEN ALL U-BOLTS USING TURN-OF-NUT METHOD WITH ATTENTION TO LEAVE EQUAL DISTANCE AND EQUAL FORCE ON EACH LEG OF THE U-BOLT.

4.0 TEST

5.0 PACKAGING
- 5.1 PACKAGING SHALL MEET COMMSCOPE REQUIREMENTS PER DOCUMENT IS-PL-3005.
- 5.2 PRINTED DOCUMENT TO BE PLACED INSIDE POLYBAG AND THEN IN SHIPPING CONTAINER.
- 5.3 EXTRA HARDWARE MAY BE SUPPLIED, BAGGED AND SHIPPED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	JL1183 01JUL24	CB1094 40199307CMO



MOUNTED ON SKEW ADAPTOR AND PIPES SHOWN FOR REFERENCE
(SKEW ADAPTOR, & PIPES ARE NOT INCLUDED IN THIS KIT)

COMPONENT PART NUMBERS PROVIDED FOR ASSEMBLY PURPOSES;
INDIVIDUAL COMPONENTS MAY BE SHIPPED AS PARTS WITHIN AN INCLUDED KIT.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	WEIGHT
1	MT65060	2.375" OD x 60" PIPE	1	14.53 LBS
2	XP-R	CROSSOVER PLATE, ROUND, UP TO 3.5" OD	2	6.20 LBS

DENSITY		lbs/in³
MASS	30.18	lbs
VOLUME	107.54	in³
SURFACE AREA	1350.73	in²
HEIGHT	10.6"	
LENGTH	60.0"	
WIDTH	5.5"	

COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES
1 PLACE .X[.X] ± 0.2[6.3]
2 PLACE .XX[.X] ± 0.12[3.0]
3 PLACE .XXX[.X] ± 0.060[1.5]
ANGLES ± 2°

SAP MATERIAL MASTER: SKA-TBK

FINISH

MATERIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1994

	NAME	DATE
CE	JL1183	01JUL24
RW	JL1183	07/02/2024
AD	CB1094	07/02/2024
RE	JL1183	07/02/2024
ECN	40199307CMO	

TITLE: SKEW ADAPTOR,TIE-BACK KIT

SCALE: 1:8

DOCUMENT NO.: SKA-TBK

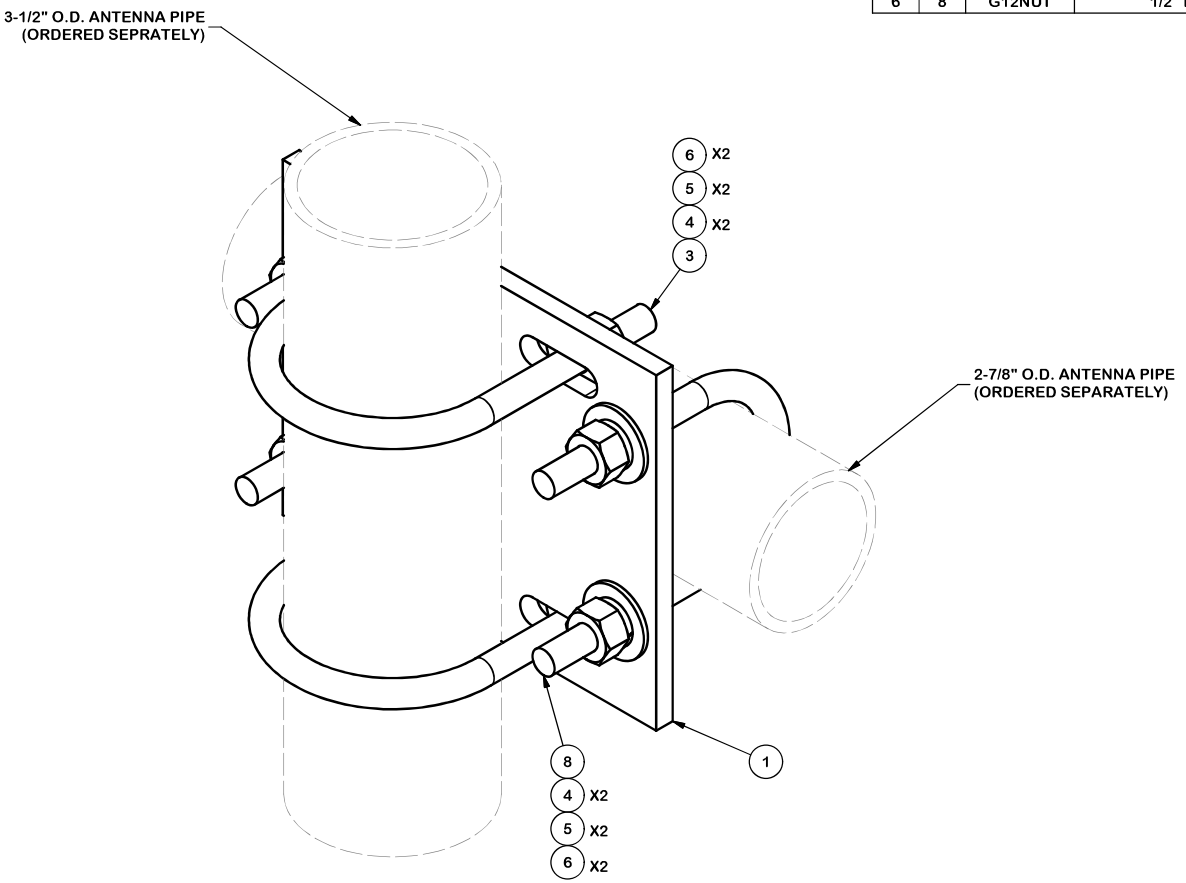
SIZE: C

Auth Group: INSL

MODEL			DRAWING			SHEET
VERSION	STATUS	REVISION	VERSION	STATUS	REVISION	
01	RE	A	01	IW	B	1 OF 1

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	6.02
3	2	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" U-BOLT (HDG.)		0.73	1.46
8	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.73	1.46
4	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	9.92



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION: CROSSOVER PLATE KIT

CPD NO.

DRAWN BY: CEK 2/19/2015

ENG. APPROVAL

CLASS: 81 SUB: 01

DRAWING USAGE: CUSTOMER

CHECKED BY: BMC 2/19/2015

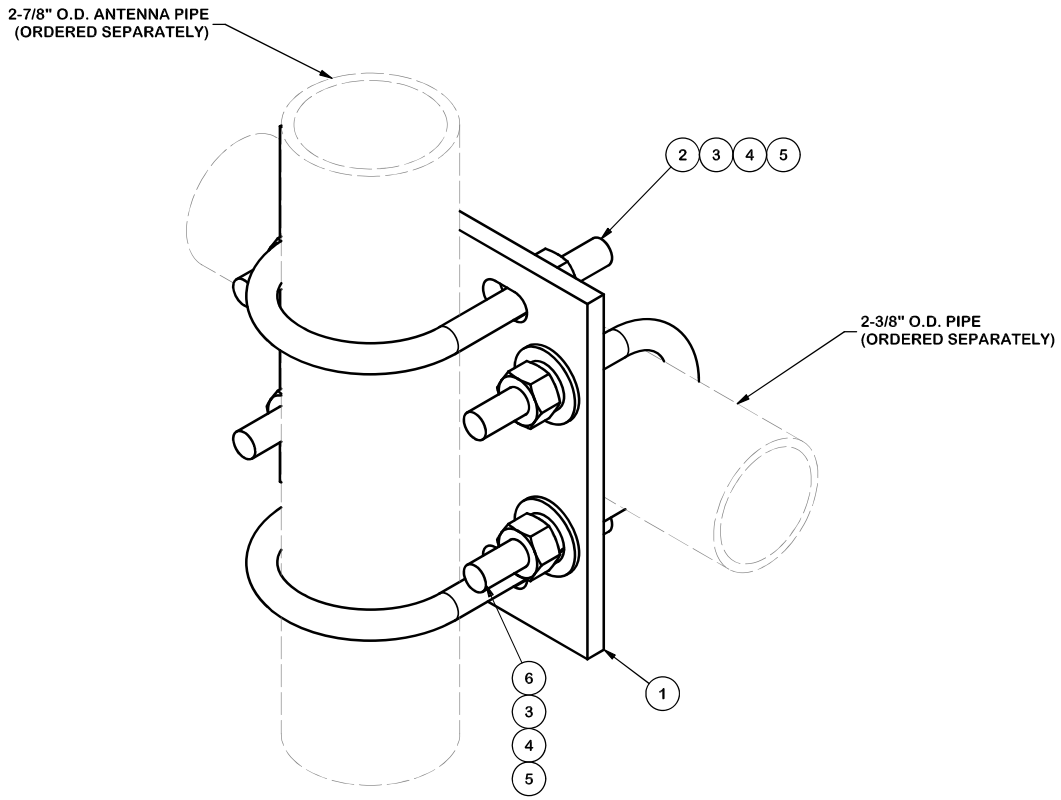
PART NO.: SCX45-K

DWG. NO.: SCX45-K

SITE PRO 1
A valmont COMPANY
Engineering Support Team: 1-888-753-7446
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX2	CROSSOVER PLATE	7 in	4.80	4.80
2	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
3	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
4	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	1.25
					TOTAL WT. #	8.39



TOLERANCE NOTES

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SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

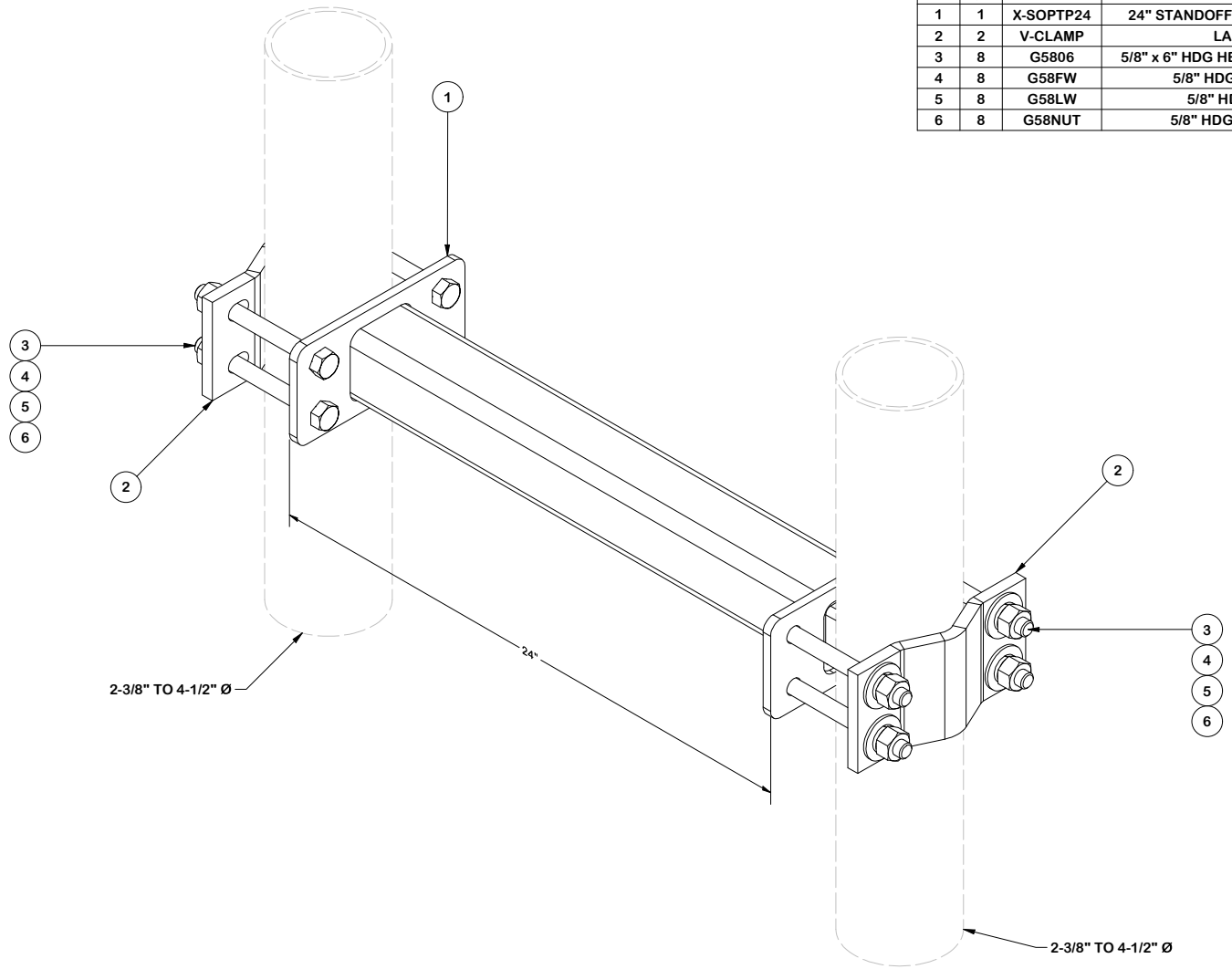
DESCRIPTION: CROSSOVER PLATE KIT

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 6/30/2011		SCX2-K

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
		SHOP	BMC 7/1/2011	SCX2-K

SITE PRO 1
A valmont COMPANY
Engineering Support Team:
1-888-753-7446
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SOPTP24	24" STANDOFF PIPE-TO-PIPE WELDMENT		23.99	23.99
2	2	V-CLAMP	LARGE V-CLAMP	8 21/32 in	5.55	11.09
3	8	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	4.94
4	8	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.56
5	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
6	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
					TOTAL WT. #	44.35



FINISH:
HOT DIP GALVANIZED.

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS AND ANGLES ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION: 24" UNIVERSAL STANDOFF PIPE-TO-PIPE KIT

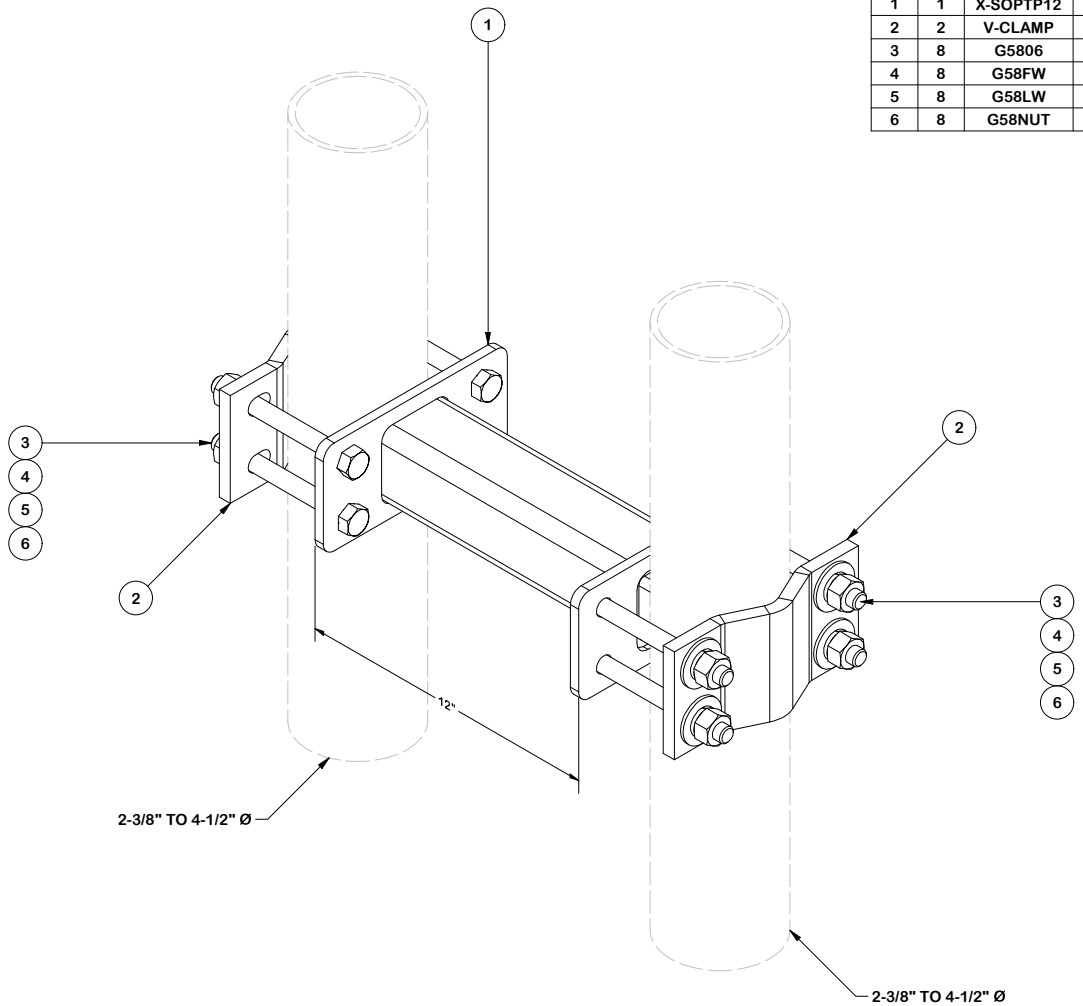
SITE PRO 1 — A valmont COMPANY

Engineering Support Team:
1-888-753-7446

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
NCS	SDR 8/20/2024	11/5/2024	SOPTP24-U	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
87	02	CUSTOMER	JET 11/5/2024	SOPTP24-U

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SOPTP12	12" STANDOFF PIPE-TO-PIPE WELDMENT	12 in	14.64	14.64
2	2	V-CLAMP	LARGE V-CLAMP	8 21/32 in	5.55	11.09
3	8	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	4.94
4	8	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.56
5	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
6	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
					TOTAL WT. #	32.49



FINISH:
HOT DIP GALVANIZED.

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS AND ANGLES ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION: 12" UNIVERSAL STANDOFF PIPE-TO-PIPE KIT

SITE PRO 1 — A valmont COMPANY

Engineering Support Team: 1-888-753-7446

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
NCS	SDR 6/22/2023	8/26/2024	SOPTP12-U

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
87	02	CUSTOMER	CSL 8/26/2024	SOPTP12-U