



January 11, 2019

Crystal Orr, Planning Specialist
Coos County Planning Department
225 N. Adams
Coquille, OR 97423

RECEIVED

JAN 14, 2019

COOS COUNTY
PLANNING DEPARTMENT

VIA Fed Ex

RE: ATT "Jordan Cove Road" – Special Trenching Project for Fiber/Conduit Installation

Dear Ms. Orr:

On behalf of AT&T Mobility, Lynx Consulting is submitting to Coos County a combined submittal package of Administrative Conditional Use Permit, a Special Flood Hazard Area Permit, and a Commercial Building Permit Application.

AT&T owns and operates an existing wireless facility known as "Jordan Cove" located at the Roseburg Forest Product property at 66425 Jordan Cove Road. Specifically, the wireless communication facility is located at the wood chipper on Roseburg's property along the shoreline.

Fiber optic cable needs to run to this site. This will consist of installing an approximately 3100 l.f. path of 4" underground conduit, starting to the NE and underneath the existing railroad tracks, then extending south to the adjacent property line of the shoreline and continuing west until it ties into the existing site.

The scope of work is as follows:

AT&T proposes to modify an existing wireless facility with the following scope of work:

Add (9) 2' x 3' utility vaults, per plan

Add (1) 2" schedule 40 PVD conduit stubbed up near PPL #044400(to be trenched) per plan

Add (1) encased 4" schedule 40 PVC conduit from Vault #1(MMP) to Vault #2(to be bored)

Add (7) 4' Schedule 40 PVC conduit from Vault #2 through Vault #9 (to be trenched)

Add (3) cell maxcell to all proposed conduit

Proof (1) existing 2" schedule 40 conduit path from Vault #9 to existing AT&T equipment on wood chipper

The written cost estimate of this work, as provided by general contractor Pioneer Group and enclosed, is \$172,547. The length of construction is one to three weeks dependent on weather and other conditions.

There is no work taking place directly in the shoreline but rather on lands adjacent to. The trenching will be just over two feet in depth to accommodate the 4" PVC fiber conduit, and will be backfilled with satisfactory native or imported soil along with utility cautionary tape. The existing surfaces will be restored to the original conditions as prior to excavations.



Enclosed is the ACUP Permit Application, the Special Flood Hazard Area Application, the Commercial Building Permit Application, and four sets of construction plans (signed and stamped) sized 11 x 17". Also enclosed is the owner's consent and a copy of the construction cost estimate.

We are also enclosing two checks, one for \$443.70 for the Flood Hazard Application, and one for \$1,479.00 for the ACUP.

Because the building permit cost estimate is so high (\$172,547) we would like to ask Coos County calculate the amount of the plan check and review fee and let us know so we may send you a check for the appropriate amount.

If you have any questions or need additional information, please let me know. I can be reached at 435 877 1871 ex. 105 and my email is Azavales@lynxconsulting.org.

Thank you for your consideration.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Aileen Zavales', with a long, sweeping flourish extending to the right.

Aileen Zavales
Lynx Consulting, Inc.

Enclosures

Aileen Zavales

From: Aileen Zavales
Sent: Thursday, December 20, 2018 12:35 PM
To: Aileen Zavales
Subject: FW: OR503 North Bend_Agent Authorization

From: "DEL RIO, GARY D" <gd2515@att.com>
Date: December 20, 2018 at 11:57:34 AM PST
To: Olivia Wright <owright@lynxconsulting.org>
Subject: RE: OR503 North Bend_Agent Authorization

Hi Olivia, this is fully approved.

AT&T authorizes Lynx Consulting to make application to Coos County for a underground fiber installation in support of an existing telecommunication facility located at 66237 Jordan Cove Rd, North Bend, OR.

Thanks,
Gary Del Rio
AT&T Mobility PNW TxSA/MW PM
503-593-4113

From: Olivia Wright <owright@lynxconsulting.org>
Sent: Thursday, December 20, 2018 10:20 AM
To: DEL RIO, GARY D <gd2515@att.com>
Subject: OR503 North Bend_Agent Authorization

Hello Gary,

AT&T site, North Bend is located in Coos County, OR. This jurisdiction requires ownership authorization for Lynx Consulting to submit for Zoning and Building Permit Approval. Please reply with approval of the following:

AT&T authorizes Lynx Consulting to make application to Coos County for a underground fiber installation in support of an existing telecommunication facility located at 66237 Jordan Cove Rd, North Bend, OR.

Thank you,

Olivia Wright | Lynx Consulting, Inc.
17311 135th Ave NE, Suite A-100, Woodinville, WA 98072 | 47.752967°, -122.159964°
Cell (253) 653-9787 | Office (425) 877-1871 ext. 4 | Fax (425) 354-3277
owright@lynxconsulting.org | www.lynxconsulting.org

QUOTE

Vendor #14404397

October 23, 2018

AT&T
Attn: Gary Del Rio
gd2515@att.com

We are pleased to provide a proposal for the following services:

Standard ETTCS Room Ready with FAP:

Item	QTY	Total
Trenching and installing underground 4" conduit 3100 feet to include shoreline and bore under railroad tracks with 150' of HDPE, install 9 vaults	1	113,940.00
Materials for trenched path, conduit, (9) 233LA vaults, 3 cell maxcell	1	48,832.00
Window existing 2" conduit, remove spare copper, proof path with maxcell, coordinate civil work to new cabinet with turf vendor	1	1625.00
FAP Install and storage	1	\$2,100.00
Install all cable, wire, innerduct, fuses, breakers, and proof paths at site	1	\$2,100.00
Materials at site: wire for power, grounding, lugs, hardware, innerduct, for FAP and LEC	1	\$3,600.00
COP	1	\$350.00

Labor and Materials Total: \$172,547.00

Exclusions:

- Sales tax
- Permissions or permits

We remain available for any further assistance or questions

Jonathan Stone
Project Manager
(509) 701-6122
jonathan.stone@piogrp.com

Ron Rippley
General Manager
(509) 366-9105
ron.ripple@piogrp.com





Coos County Planning Department
Conditional Use Application

Official Use Only	
FEE:	<u>\$1479.00</u>
Receipt No.	<u>206310</u>
Check No./Cash	<u>12172</u>
Date	<u>1/14/19</u>
Received By	<u>A. Dibble</u>
File No.	<u>ACU-19-002</u>

Please place a check mark on the appropriate type of review that has been requested.

- Administrative Conditional Use
- Site Plan Review
- Hearings Body Conditional Use
- Variance

An **incomplete** application **will not** be processed. Applicant is responsible for completing the form and addressing all criteria. Attach additional sheets to answer questions if needed.

A. Applicant:

Name: Aileen Zavala, Lynx Consulting & AT&T Telephone: 206 972 1328
 Address: 17311 135th Ave NE A100
 City: Woodinville State: WA Zip Code: 98072

B. Owner:

Name: Roseberg Forest Products Telephone: 541-679-3311
 Address: 46425 Jordan Cove Rd
 City: North Bend State: WA Zip Code: 97459

C. As applicant, I am (check one): Please provide documentation.

- The owner of the property (shown on deed of record);
- The purchaser of the property under a duly executed written contract who has the written consent of the vendor to make such application (consent form attached).
- A lessee in possession of the property who has written consent of the owner to make such application (consent form attached).
- The agent of any of the foregoing who states on the application that he/she is the duly authorized agent and who submits evidence of being duly authorized in writing by his principal (consent form attached).

D. Description of Property:

Township 25S Range 13W Section 04 Tax Lot 300
 Tax Account 31010069-32 Acre Lot Size 228.88 AC Zoning District L-WD
CBEMD

E. Required Information (please check off as you complete)

- 1. Existing Use Industrial
- 2. Site Address 66237 Jordan Rd
- 3. Access Road NA
- 4. Is the Property on Farm/Forest Tax Deferral no
- 5. Current Land Use (timber, farming, residential, etc.) Industrial
- 6. Major Topography Features (streams, ditches, slopes, etc.) NA
- 7. Letter from Natural Resource Conservation Service (for Forest/Farm dwellings only). NA
- 8. List all lots or parcels that the current owner owns, co-owns or is purchasing which have a common boundary with the subject property on an assessment map.
- 9. Identify any homes or development that exists on properties identified in #8.
- 10. A copy of the current deed of record.
- 11. Covenants or deed restrictions on the property, if unknown contact title company.
- 12. A detailed parcel map of the subject property illustrating the size and location of existing and proposed uses, structures and roads on an 8½" x 11" paper to scale. **Applicable distances must be noted on the parcel map along with slopes.** (See example plot map)

F. Proposed use and Justification

Please attach an explanation of the requested proposed use and **findings (or reasons)** regarding how your application and proposed use comply with the following the Coos County Zoning and Land Development Ordinance (LDO). Pursuant to the LDO, this application may be approved only if it is found to comply with the applicable criteria for the proposed use. Staff will provide you with the criteria; however, staff cannot provide you with any legal information concerning the adequacy of the submitted findings, there is no guarantee of approval and the burden rests on the applicant. (You may request examples of a finding)

Please note staff has identified the applicable criteria based on the information received from the applicant.

Applicable Criteria: Suggested and General Criteria
Trenching - underground conduit installation to provide fiber
to existing AT&T site located on Chippewick existing

G. Authorization:

All areas must be initialed by all applicant(s) prior to the Planning Department accepting any application.

[Signature]

I hereby attest that I am authorized to make the application for a conditional use and the statements within this application are true and correct to the best of my knowledge and belief. I affirm that this is a legally created tract, lot or parcel of land. I understand that I have the right to an attorney for verification as to the creation of the subject property. I understand that any action



Commercial Plan Review Submittal Checklist

Department of Consumer & Business Services
Building Codes Division • 1535 Edgewater NW, Salem, OR
 Mailing address: P.O. Box 14470, Salem, OR 97309
 (503) 373-1210, Fax: (503) 378-3656, TTY: (503) 373-1358
 www.oregonbcd.org

DEPARTMENT USE ONLY
Plan review no.:
Permit no.:
Office:
BCD employee initials:

JOB INFORMATION	OWNER
Name: <u>AT+T OR503 North Bend</u>	Name: <u>Roseberg Forest Products</u>
Address: <u>66237 Jordan Cove Rd</u>	Address: <u>66245 Jordan Cove Rd</u>
City: <u>North Bend</u> State: <u>OR</u> ZIP: <u>97459</u>	City: <u>North Bend</u> State: <u>OR</u> ZIP: <u>97459</u>
Phone: () Fax: ()	Phone: () Fax: ()

ARCHITECT / ENGINEER	APPLICANT
Name: <u>Bert White PE Lynx Consulting</u>	Name: <u>Aileen Zavala, Lynx Consulting</u>
Address: <u>17311 135th Ave NE A100</u>	Address: <u>17311 135th Ave NE A100</u>
City: <u>Woodinville</u> State: <u>WA</u> ZIP: <u>98072</u>	City: <u>Woodinville</u> State: <u>WA</u> ZIP: <u>98072</u>
Phone: <u>(206) 250 2335</u> Fax: ()	Phone: <u>(425) 877 1871</u> Fax: <u>(425) 351 3277</u>

REVIEW INFORMATION		
Declaration of value: \$ <u>172,547.⁰⁰</u>	Building sq. ft.: <u>8</u>	Review fee: \$
Building use (be specific): <u>installation of 3100 LF 4" conduit fiber optic cable</u>		
Check type of review: <input type="checkbox"/> Fire and life safety <input type="checkbox"/> Structural <input type="checkbox"/> Mechanical <input type="checkbox"/> Sprinkler <input type="checkbox"/> Alarm		

MINIMAL PLAN REQUIREMENTS CHECKLIST		
Three sets of plans and the following items are required for review:		
Initials	Date	
1. _____	_____	Site plan: changes of occupancy, additions, alterations, and new construction
2. _____	_____	Floor/roof plans: including dimensions, windows, and doors
3. _____	_____	Floor/roof framing: framing member size, joist, beam, and column
4. _____	_____	Foundation plan: wall dimensions and footings — for complete review
5. _____	_____	Building elevations: minimum two views
6. _____	_____	Building cross-sections: structural members, roof and wall sheathing
7. _____	_____	Structural calculations: new or change of occupancy
8. _____	_____	Electrical: exits, fire alarms, and fire and life safety equipment
9. _____	_____	Energy documentation: If building is heated or cooled, submit on Oregon Energy Code guideline forms. Residential (motels, SR, apartments): identify path _____
10. _____	_____	Complete specifications: quality and type of all construction materials, and methods of construction
11. _____	_____	Architect/engineer stamp: over 4,000 sq. ft. or 20' height — Architect law-ORS 671.030, Engineer law-ORS 672.020
12. _____	_____	Mechanical plans: equipment location, size, type, and layout — fan capacity, etc.
13. _____	_____	Disabled access: indicate compliance measures
14. _____	_____	Minimum scale: 1/8" - minimum paper size: 8 1/2" X 11" on all plans
Other agency clearances:		
15. _____	_____	Department of Environmental Quality or local sanitary authority
16. _____	_____	Local planning department: zoning, special land use. Building is in flood plain? <input type="checkbox"/> Yes <input type="checkbox"/> No

APPLICANT: Aileen Zavala Signature Aileen Zavala Print name: Aileen Zavala Date: 1-11-2015



PROJECT DESCRIPTION

REMOVE EXISTING ANTENNAS FRAMES. REMOVE (3) EXISTING ANTENNAS, (1) PER SECTOR. INSTALL NEW ANTENNAS FRAMES (DESIGNED BY OTHERS). INSTALL (6) NEW ANTENNAS, (2) PER SECTOR. INSTALL (9) NEW RRRH UNITS, (3) PER SECTOR. INSTALL (2) SURGE SUPPRESSORS. INSTALL (4) DC POWER AND (1) FIBER TRUNKS. REMOVE EXISTING NORTEL GSM CABINET. INSTALL NEW ETCS FLX12 CABINET. INSTALL (1) NEW LTE FLX12 PURCELL CABINET WITH 1C/2C/3C RADIO CARDS ON TOP OF NEW ETCS FLX12 CABINET.

PROJECT INFORMATION

SITE ADDRESS: 66237 JORDON COVE ROAD NORTH BEND, OR 97459
 ZONING DISTRICT: B2
 EXISTING USE: UNMANNED TELECOMMUNICATIONS FACILITY
 NEW USE: UNMANNED TELECOMMUNICATIONS FACILITY
 LATITUDE: 43° 25' 31.368"
 LONGITUDE: -124° 15' 27.864"
 JURISDICTION: COOS COUNTY
 MAP AND TAXLOT: 25S13040000300

RF DATA SHEET

DATE UPDATED: 07/11/2017
 VERSION: 1.00

DRAWING INDEX	REV
10129848-OR503-T-1	0
10129848-OR503-GN-1	0
10129848-OR503-A-1	0
10129848-OR503-A-2	0
10129848-OR503-A-3	0
10129848-OR503-A-4	0
10129848-OR503-A-5	0
10129848-OR503-RF-1	0
10129848-OR503-RF-2	0
10129848-OR503-E-1	0
10129848-OR503-E-2	0

LEGAL DESCRIPTION

TOWNSHIP 25S, RANGE 3W, LOT 4300
 COOS COUNTY, OREGON

SITE PROJECT PARTICIPANTS

NAME	COMPANY	NUMBER	
A/E	JON BOUTILIER	WYCO FIELD SERVICES, LLC	602-796-9068
SAC	AMANDA NATIONS	TAEC	206-778-1578
RF	ANNE LE	AT&T WIRELESS	425-614-5641
LANDLORD	JOHN GRABEL	ROSEBURG FOREST PRODUCTS	541-756-4307
SAC MNGR	TERESA STEMLER	MASTEC NETWORK SOLUTIONS	425-214-9728
A&E MNGR	TERESA STEMLER	MASTEC NETWORK SOLUTIONS	425-214-9728



PROJECT SCOPE: 1C/2C/3C
SITE NUMBER: OR503
SITE NAME: NORTH BEND
CONSTRUCTION DRAWINGS

VICINITY MAP

DIRECTIONS: (19801 SW 72ND AVE #220, TUALATIN, OR 97062):
 GET ON I-5 S FROM SW SAGERT ST AND SW MARTINAZZI AVE FOR 1.4 MI, HEAD SOUTHEAST ON SW 72ND AVE TOWARD SW SAGERT ST FOR 489 FT., TURN RIGHT AT THE 1ST CROSS STREET ONTO SW SAGERT ST FOR 0.4 MI, TURN RIGHT ONTO SW MARTINAZZI AVE FOR 0.4 MI, TURN RIGHT ONTO SW TUALATIN-SHERWOOD RD FOR 0.2 MI, CONTINUE ONTO SW NYBERG ST FOR 0.1 MI, TURN RIGHT TO MERGE ONTO I-5 S TOWARD SALEM FOR 0.2 MI, FOLLOW I-5 S TO OR-38 W IN DOUGLAS COUNTY. TAKE EXIT 162 FROM I-5 S FOR 127 MI, MERGE ONTO I-5 S FOR 127 MI, TAKE EXIT 162 FOR OR-38/OR-99 TOWARD DRAIN/ELKTON FOR 0.3 MI, FOLLOW OR-38 W AND US-101 S TO JORDAN COVE RD IN COOS COUNTY FOR 80.2 MI, MERGE ONTO OR-38 W FOR 6.3 MI, TURN RIGHT ONTO OR-38 W/W B AVE, CONTINUE TO FOLLOW OR-38 W FOR 5.3 MI, CONTINUE STRAIGHT TO STAY ON OR-38 W FOR 44.3 MI, CONTINUE STRAIGHT ONTO FIR AVE/UMPOUA AVE, CONTINUE TO FOLLOW UMPQUA AVE FOR 0.5 MI, TURN LEFT ONTO US-101 S FOR 21.3 MI, TURN RIGHT ONTO JORDAN COVE RD/TRANS PACIFIC LN FOR 0.8 MI, KEEP RIGHT TO CONTINUE ON TRANS PACIFIC LN FOR 0.7 MI, TURN LEFT ONTO JORDAN COVE FOR 312 FT., CONTINUE STRAIGHT ONTO JORDAN COVE RD



DIG INFO

CALL OREGON ONE CALL
 (800) 332-2344
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!

APPLICABLE BLDG. CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 [INTERNATIONAL BUILDING CODE (IBC), 2015 AS ADOPTED BY THE LOCAL JURISDICTION]

ELECTRICAL CODE:
 [NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2014, NATIONAL ELECTRICAL CODE, AS ADOPTED BY THE LOCAL JURISDICTION]

LIGHTNING PROTECTION CODE:
 [NFPA 780 - 2002, LIGHTNING PROTECTION CODE]

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, THIRTEENTH EDITION TIA/EIA 222-G, STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
 TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
 INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT
 IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST VERSION
 TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS
 ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

SCALING DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

IF USING 11"x17" PLOT, DRAWINGS WILL BE AT HALF SCALE.

at&t Mobility
 AT&T MOBILITY
 RTC BUILDING 3
 16221 NE 72ND WAY
 REDMOND, WA 98052

MasTec
 Network Solutions
 1203 114th AVE SE
 BELLEVUE, WA 98004

WYCO
 FIELD SERVICES
 where quality still counts.
 4240 E. ELWOOD ST.
 PHOENIX, AZ 85040

ADDRESS
 66237 JORDON COVE ROAD
 NORTH BEND, OR 97459

SITE NUMBER
 OR503

SITE NAME
 NORTH BEND

SEAL

FA #: 10129848

REV	DATE	DESCRIPTION
A	5/5/17	PRELIMINARY CONSTRUCTION DRAWINGS
B	8/17/17	CLIENT COMMENTS
C	8/25/17	SUBMITTAL CONSTRUCTION DRAWINGS

SHEET TITLE
 TITLE SHEET

SHEET NUMBER
 T-1

DRAWN BY: CW
 CHECKED BY: CW
 APPROVED BY: JB

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - MASTEC
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - AT&T MOBILITY
 OEM - ORIGINAL EQUIPMENT MANUFACTURE
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DELETED
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- DELETED.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OFF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
- CONSTRUCTION SHALL COMPLY WITH AT&T MOBILITY SPECIFICATION 25741-000-3APS-A00Z-00002, "GENERAL CONSTRUCTION SERVICES."
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- 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 DANGEROUS EXPOSURE LEVELS.

ELECTRICAL INSTALLATION NOTES:

- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.

ELECTRICAL INSTALLATION NOTES CONT.:

- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PLANLOAD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES. USE LOW PROFILES TIE WRAPS.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

ELECTRICAL INSTALLATION NOTES CONT.:

- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

GROUNDING NOTES:

- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH 25471-000-3PS-EG00-0001, DESIGN & TESTING OF FACILITY GROUNDING FOR CELL SITES.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF EIA/TIA 222. FOR TOWERS BEING BUILT TO REV G OF THE STANDARD.



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SITE NAME
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EXPIRES: 12/31/18

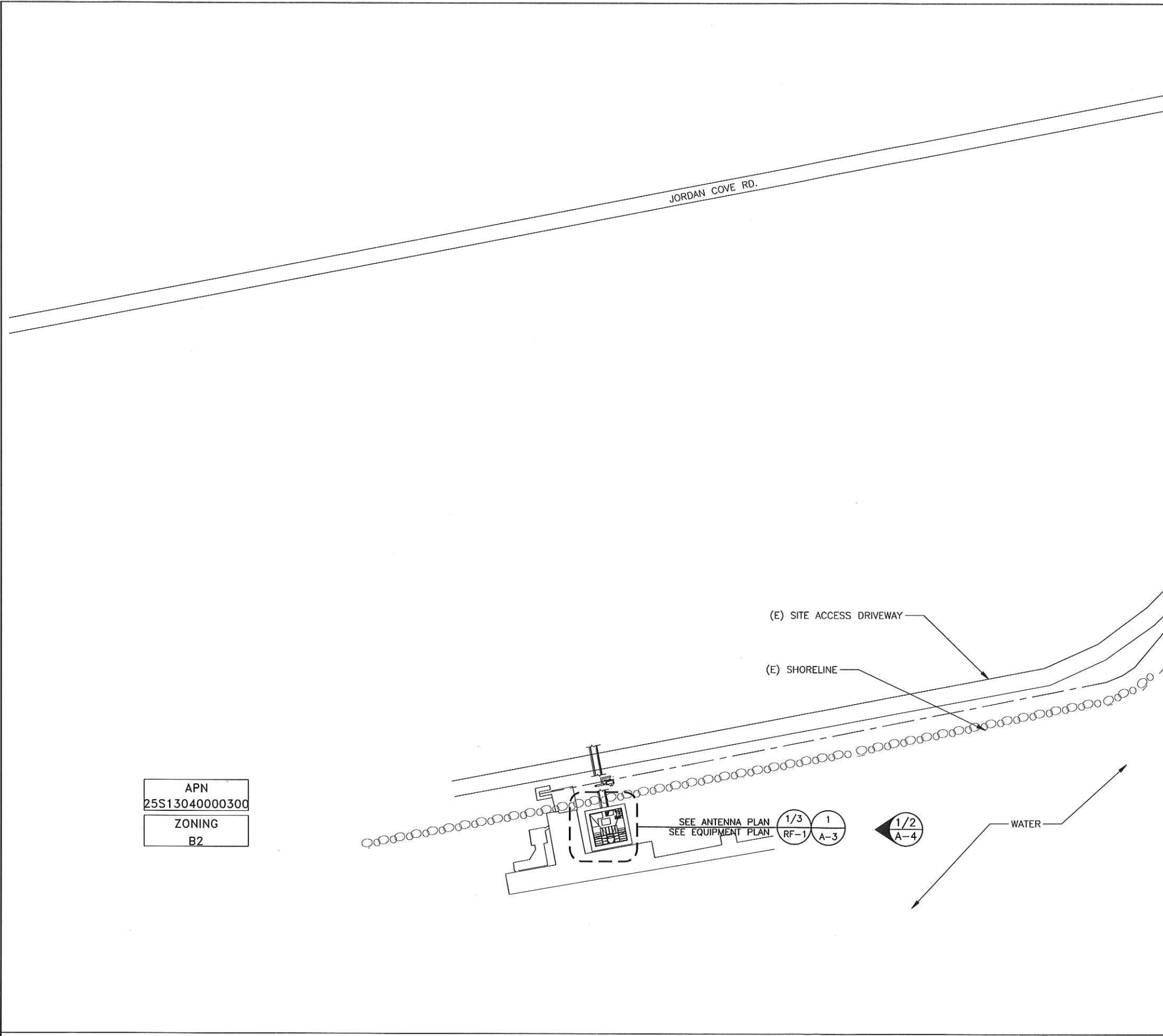
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REV	DATE	DESCRIPTION
A	5/5/17	PRELIMINARY CONSTRUCTION DRAWINGS
B	8/17/17	CLIENT COMMENTS
0	8/25/17	SUBMITTAL CONSTRUCTION DRAWINGS

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

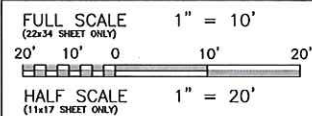


APN
25S13040000300

ZONING
B2

- LEGEND**
- UTILITIES**
- UGP BURIED POWER LINE
 - BURIED GAS LINE
 - OHIT OVERHEAD TELEPHONE LINE
 - UGT BURIED TELEPHONE LINE
 - W-B BURIED WATER LINE
 - SS BURIED SANITARY SEWER
 - SD BURIED STORM DRAIN
 - OHP OVERHEAD POWER LINE
- LANDSCAPE**
- DITCH LINE/FLOW LINE
 - ROCK RETAINING WALL
 - VEGETATION LINE
 - x - x - x - CHAIN LINK FENCE
 - WOOD FENCE
 - BARBED WIRE FENCE
 - RAILROAD TRACKS
 - EDGE OF ROAD/STREET
 - CENTERLINE OF ROAD/STREET
- PROPERTY**
- PROPERTY LINE
 - RIGHT-OF-WAY CENTERLINE
 - RIGHT-OF-WAY LINE
 - ADJACENT BOUNDARY LINE
 - SECTIONAL BREAKDOWN LINE
- AT&T SITE PROPERTY**
- SUBJECT BOUNDARY LINE

- SYMBOL KEY**
- ⊕ FIRE HYDRANT
 - ⊗ GATE VALVE
 - ⊞ WATER METER
 - ⊙ FIRE STAND PIPE
 - ⊠ CATCH BASIN, TYPE I
 - ⊡ CATCH BASIN, TYPE II
 - ⊠ TRANSFORMER
 - ⊞ LIGHT STANDARD
 - ⊞ POWER VAULT
 - ⊞ UTILITY BOX
 - ⊞ UTILITY POLE
 - ⊞ POLE GUY WIRE
 - ⊞ GAS VALVE
 - ⊞ GAS METER
 - ⊞ TELEPHONE VAULT
 - ⊞ TELEPHONE RISER
 - ⊞ SIGN
 - ⊞ BOLLARD
 - ⊞ MAIL BOX
 - ⊞ SPOT ELEVATION



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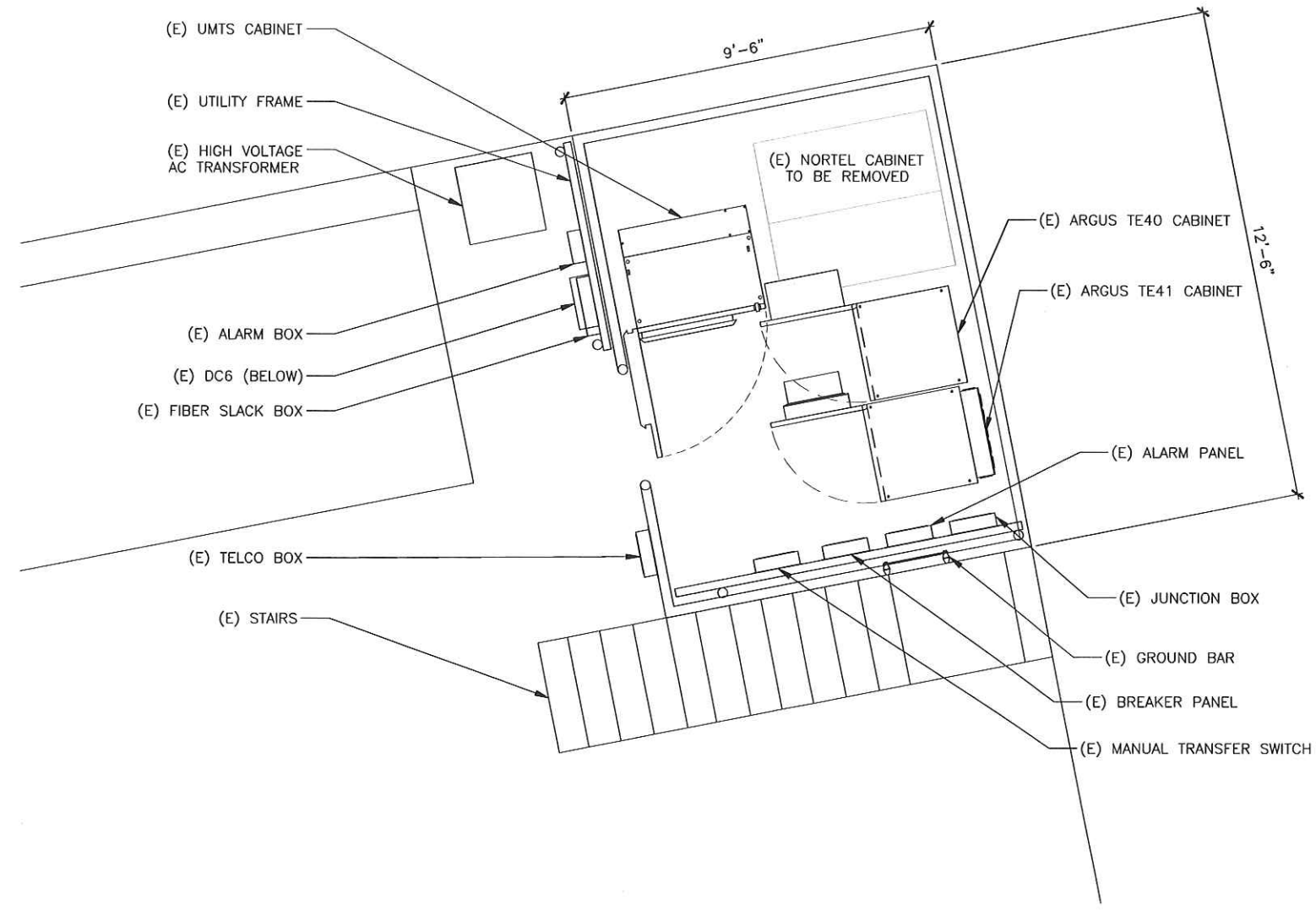
SEAL

REGISTERED PROFESSIONAL ENGINEER
54839E
5th 07 2017
OREGON
ALAN E. MONEY
EXPIRES: 12/31/18

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SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A-1



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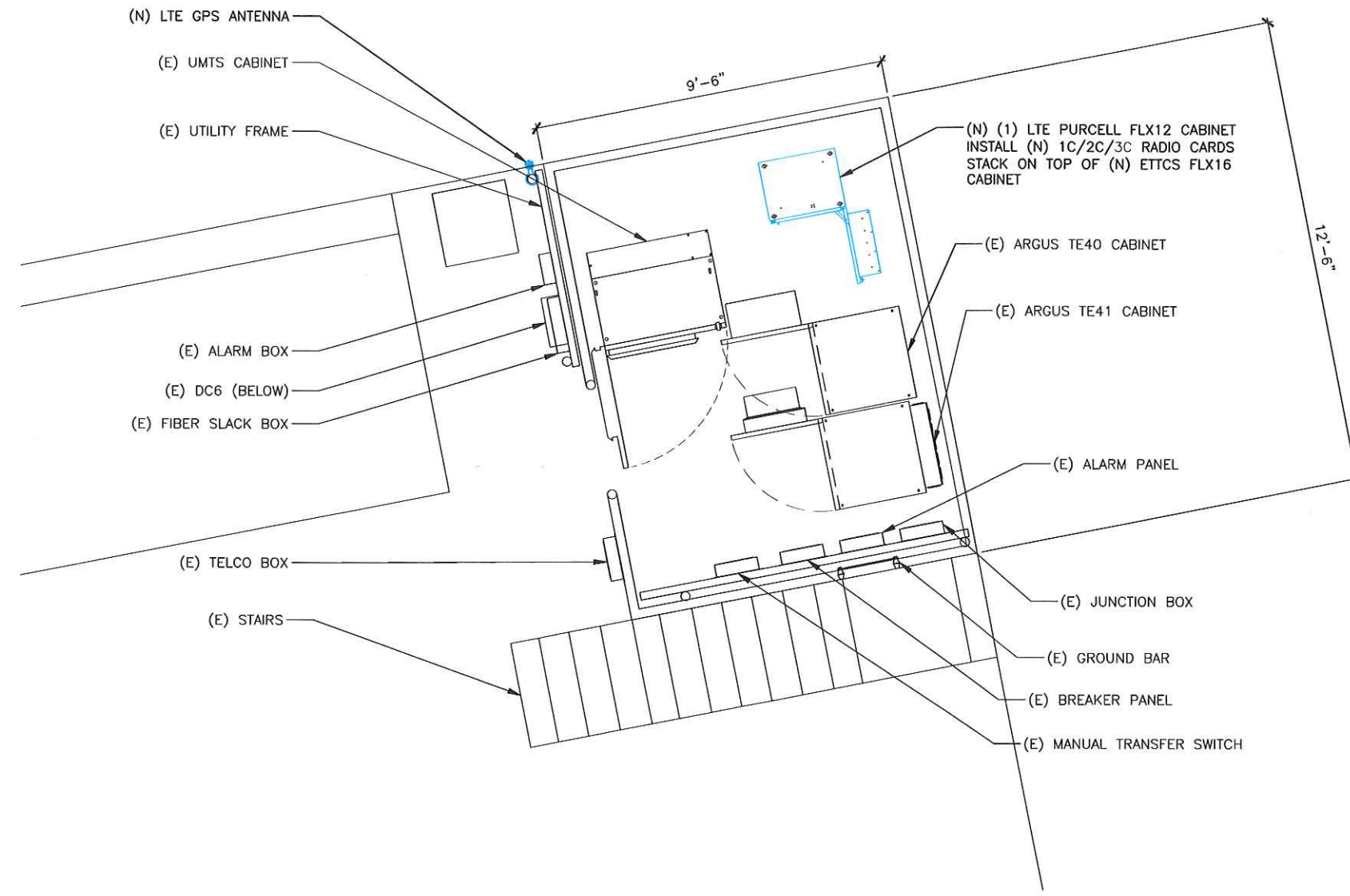
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SHEET TITLE
**EXISTING ENLARGED
 EQUIPMENT PLAN**

SHEET NUMBER
A-2



FULL SCALE 1/2" = 1'-0"
(22x34 SHEET ONLY)
 4' 2' 0 2' 4'
 HALF SCALE 1/4" = 1'-0"
(11x17 SHEET ONLY)



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SHEET TITLE
**NEW ENLARGED
 EQUIPMENT LAYOUT**

SHEET NUMBER
A-3



FULL SCALE 1/2" = 1'-0"
(22x34 SHEET ONLY)
 4' 2' 0' 2' 4'
 HALF SCALE 1/4" = 1'-0"
(11x17 SHEET ONLY)



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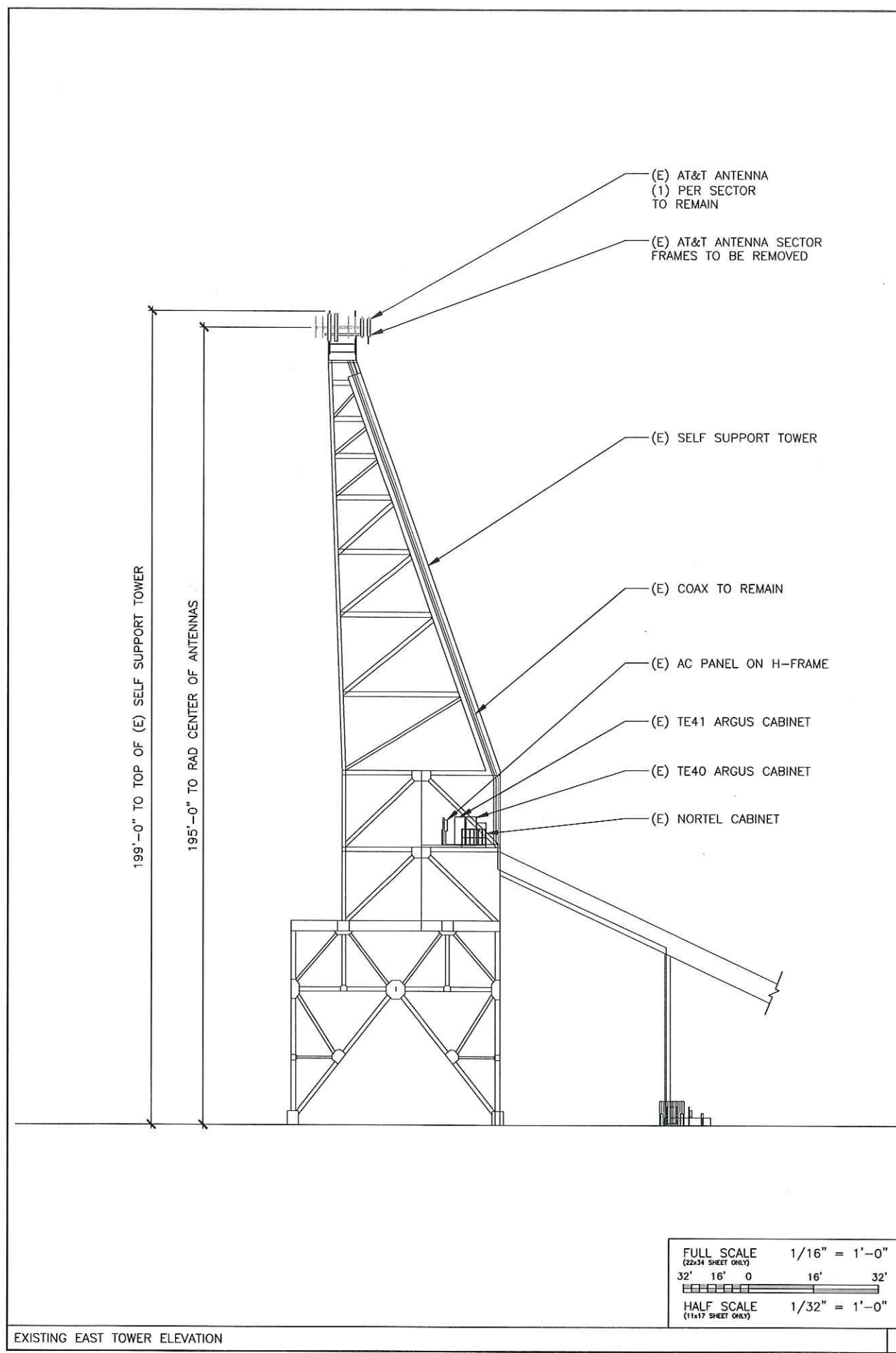
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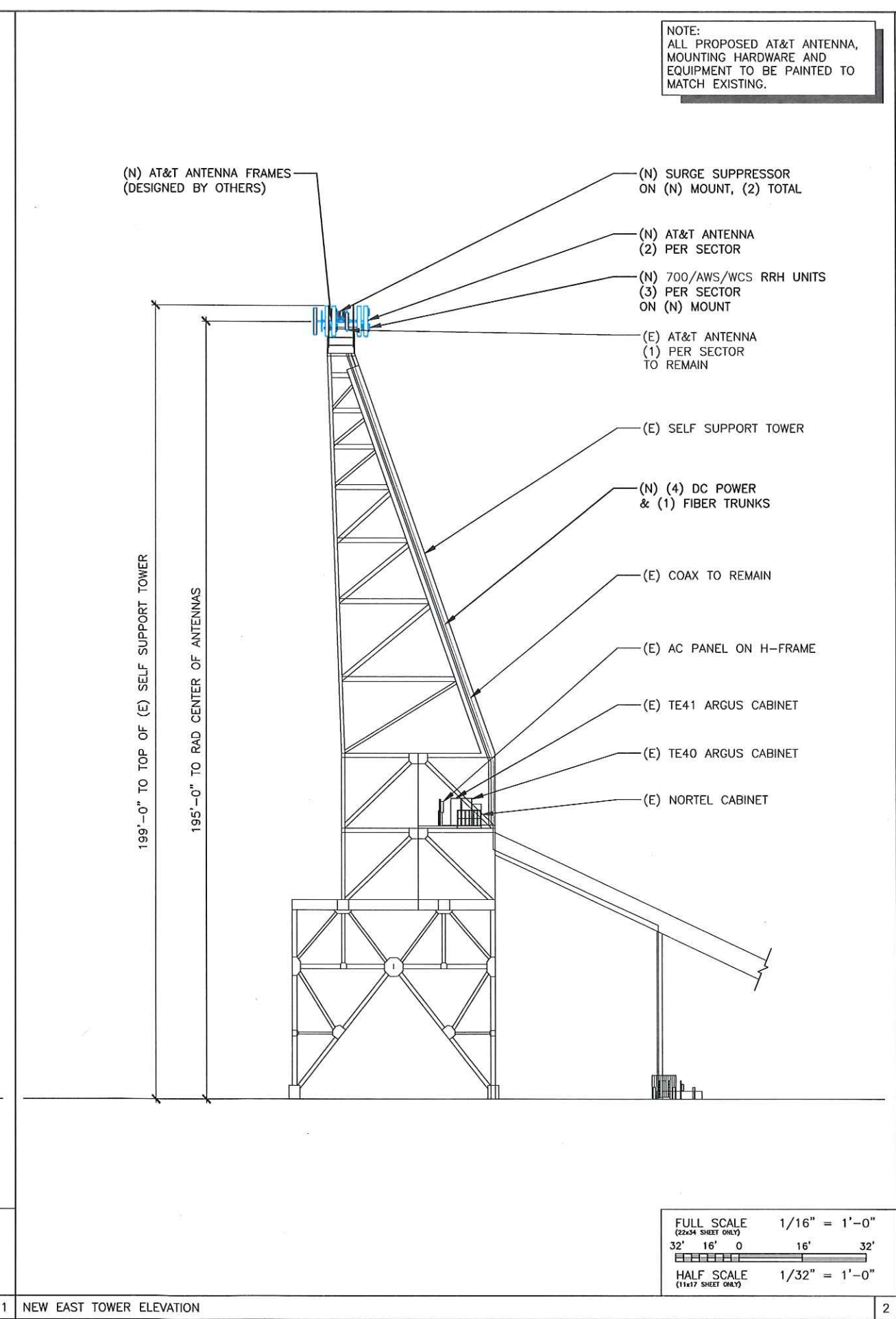
SHEET TITLE
**EXISTING & NEW
TOWER ELEVATIONS**

SHEET NUMBER
A-4

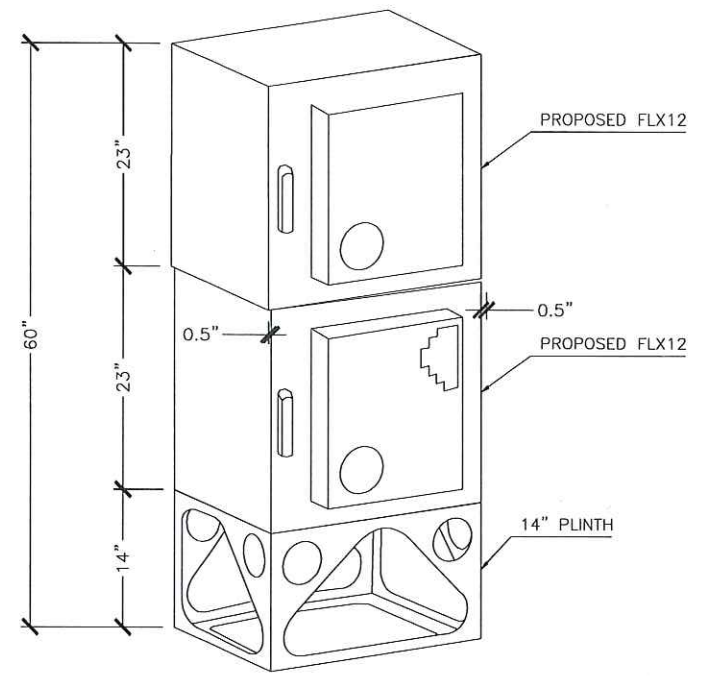
NOTE:
ALL PROPOSED AT&T ANTENNA,
MOUNTING HARDWARE AND
EQUIPMENT TO BE PAINTED TO
MATCH EXISTING.



EXISTING EAST TOWER ELEVATION

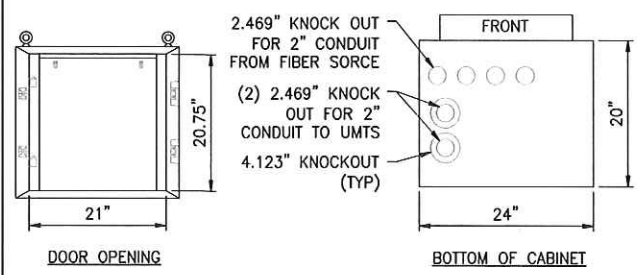
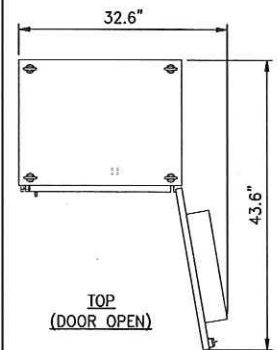
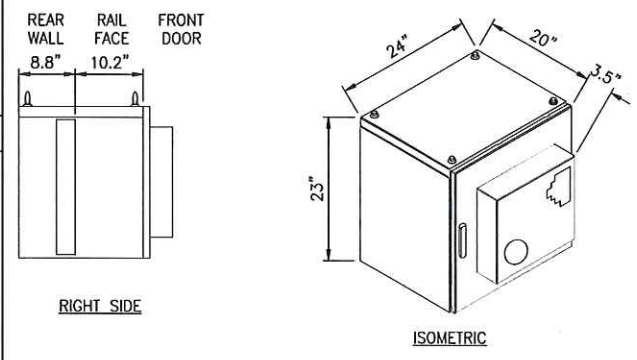


NEW EAST TOWER ELEVATION



PURCELL CABINETS MOUNTING DETAIL 7

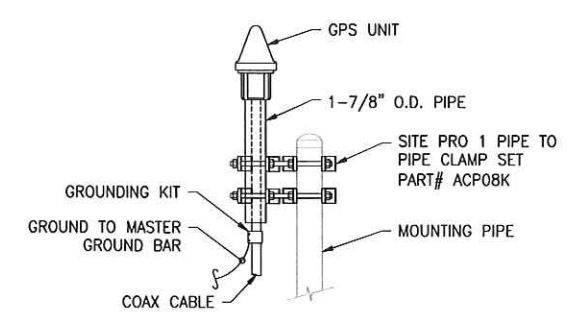
NOT USED 6 NOT USED 5



NOT USED 3 FLX16WS PURCELL CABINET DETAIL 2

NOT USED 5

4



- NOTES:
1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
 2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.
 3. GPS ANTENNA MUST BE MOUNTED 10- FEET AWAY FROM ANY OTHER TRANSMITTING ANTENNA.

GPS MOUNTING ON PIPE 1

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SHEET TITLE
DETAILS & SPECIFICATIONS

SHEET NUMBER
A-5

EXISTING COAX CONFIGURATION AND SCHEDULE														
SECTOR	AZIMUTH	RAD CENTER	POS. OF ANT.	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	RRH	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED
SECTOR A	25°	195'0"	1	KATHREIN	742-215	2°/2'	0'	NO	(1) LGP 17501	-	2	1-5/8"	220'0"	NO
UMTS 1900	25°	195'0"	2	KATHREIN	742-215	5°/5'	0'	NO	(2)2-LGP 17501	-	4	1-5/8"	220'0"	NO
SECTOR B	155°	195'0"	1	CELLMAX	CMA-B/3324	0°/0'	2'	NO	(1) LGP 17501	-	2	1-5/8"	220'0"	NO
UMTS 1900	155°	195'0"	2	CELLMAX	CMA-B/3324	0°/0'	3'	NO	(2)2-LGP 17501	-	4	1-5/8"	220'0"	NO
SECTOR C	195°	195'0"	1	CELLMAX	CMA-B/3324	0°/0'	2'	NO	(1) LGP 17501	-	2	1-5/8"	220'0"	NO
UMTS 1900	195°	195'0"	2	CELLMAX	CMA-B/3324	0°/0'	3'	NO	(2)2-LGP 17501	-	4	1-5/8"	220'0"	NO

PROPOSED COAX CONFIGURATION AND SCHEDULE														
SECTOR	AZIMUTH	RAD CENTER	POS. OF ANT.	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	RRH	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED
LTE 700/AWS	25°	195'0"	1	KMW	ET-X-UW-70-16-70-18-IR-AT	0°/0'	0'	NO	-	(1)700/AWS	-	FIBER	220'0"	NO
LTE WCS	25°	195'0"	2	KMW	ET-X-UW-70-16-70-18-IR-AT	0°	0°	NO	-	(1)WCS	-	FIBER	220'0"	NO
UMTS 1900	25°	195'0"	4	KATHREIN	742-215	5°/5'	0'	NO	(2)2-LGP 17501	-	4	1-5/8"	220'0"	NO
SECTOR B	135°	195'0"	1	KMW	ET-X-UW-70-16-70-18-IR-AT	0°/0'	0'	NO	-	(1)700/AWS	-	FIBER	220'0"	NO
LTE WCS	135°	195'0"	2	KMW	ET-X-UW-70-16-70-18-IR-AT	0°	0°	NO	-	(1)WCS	-	FIBER	220'0"	NO
UMTS 1900	155°	195'0"	4	CELLMAX	CMA-B/3324	0°/0'	3'	NO	(2)2-LGP 17501	-	4	1-5/8"	220'0"	NO
SECTOR C	205°	195'0"	1	KMW	ET-X-UW-70-16-70-18-IR-AT	0°/0'	0'	NO	-	(1)700/AWS	-	FIBER	220'0"	NO
LTE WCS	205°	195'0"	2	KMW	ET-X-UW-70-16-70-18-IR-AT	0°	0°	NO	-	(1)WCS	-	FIBER	220'0"	NO
UMTS 1900	195°	195'0"	4	CELLMAX	CMA-B/3324	0°/0'	3'	NO	(2)2-LGP 17501	-	4	1-5/8"	220'0"	NO

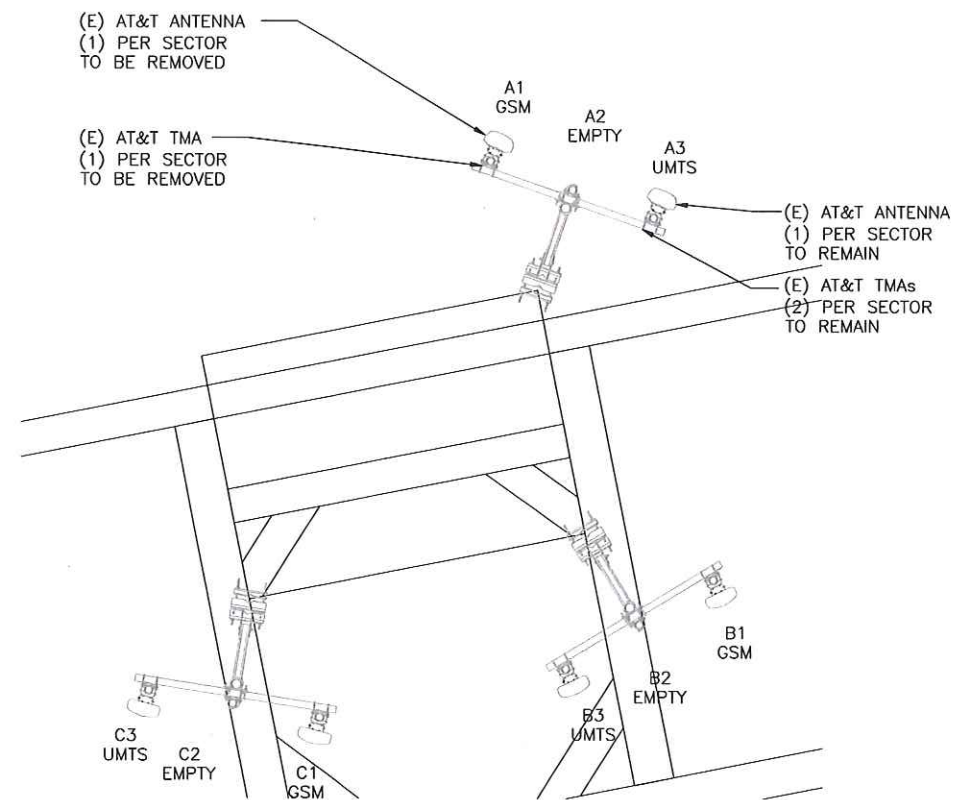
NOTES:
 * **DO NOT** USE COAX LENGTHS FOR CUT LENGTHS: ESTIMATES ONLY
 * CONFIRM THAT GENERAL CONTRACTOR IS USING LATEST VERSION OF RFDS.

EXISTING ANTENNA SCHEDULE

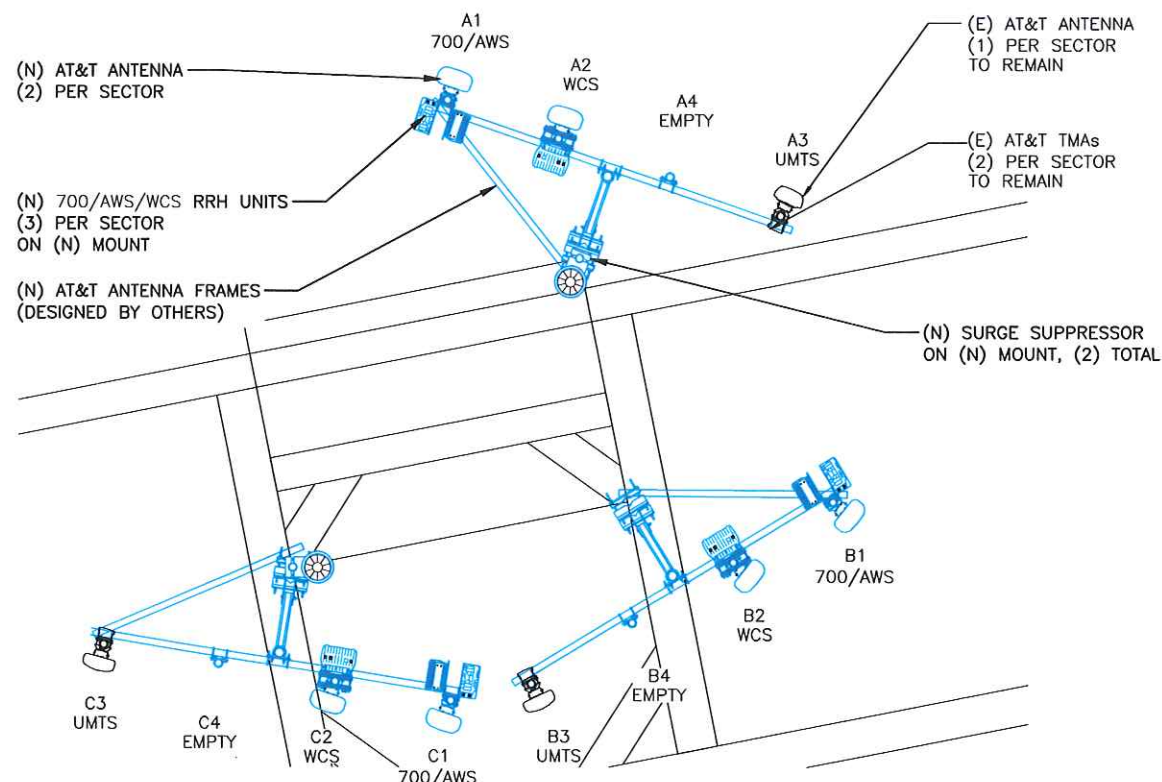
NEW ANTENNA SCHEDULE

NOTE:
ANY EXISTING GSM TMA UNITS ARE TO BE REMOVED

NOTE:
STRUCTURAL ANALYSIS REQUIRED & DONE BY OTHERS



FULL SCALE 3/8" = 1'-0"
 (22x34 SHEET ONLY)
 4' 2' 0' 1' 2' 3' 6'
 HALF SCALE 3/16" = 1'-0"
 (11x17 SHEET ONLY)



FULL SCALE 3/8" = 1'-0"
 (22x34 SHEET ONLY)
 4' 2' 0' 1' 2' 3' 6'
 HALF SCALE 3/16" = 1'-0"
 (11x17 SHEET ONLY)

EXISTING ANTENNA CONFIGURATION

NEW ANTENNA CONFIGURATION



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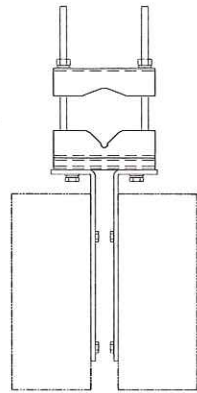
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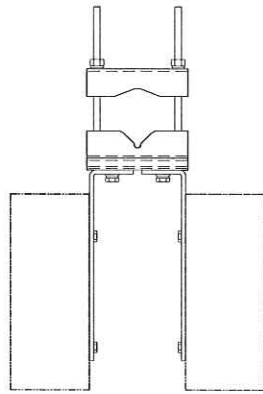
SHEET TITLE
**EXISTING & NEW
 ANTENNA CONFIGURATION**

SHEET NUMBER

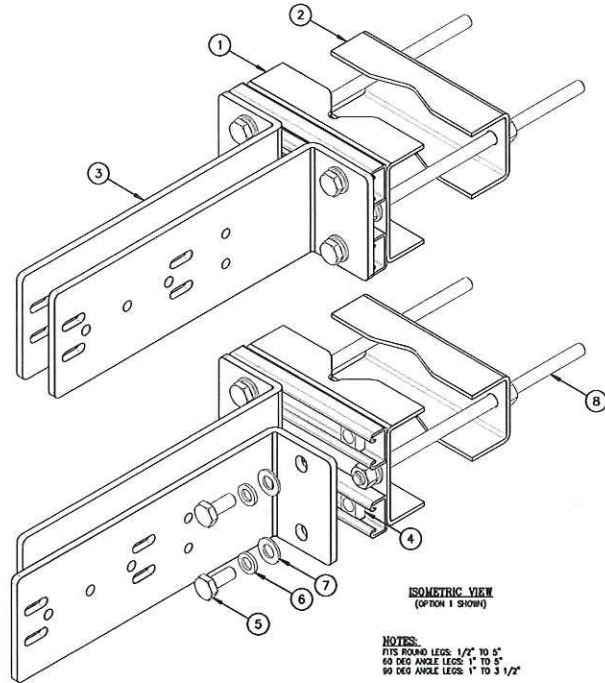
RF-1



OPTION 1 PLAN VIEW



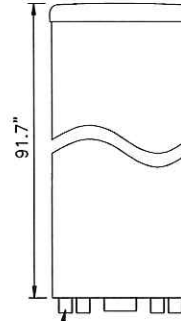
OPTION 2 PLAN VIEW



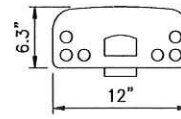
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01192	WELDMENT, FRONT CLAMP	9
2.	2	CS03060	BACK CLAMP	5
3.	4	CS03079	ANGLE, RRU MOUNT	29
4.	8	C40998382	G-STRIUT SPRING NUT GN-B12 1/2"-13 OR EQUAL	1
5.	8	C40112028	BOLT, 1/2" X 1 1/4" S.S.	1
6.	8	C40019003	1/2" LOCK WASHER S.S.	1
7.	8	C40020012	1/2" FLAT WASHER S.S.	1
8.	4	C40032007	THREADED ROD ASSEMBLY, 1/2" X 12 HDG	5
TOTAL WEIGHT				52

NOTES:
FITS ROUND LEGS: 1/2" TO 5/8"
90 DEG ANGLE LEGS: 1" TO 5/8"
90 DEG ANGLE LEGS: 1" TO 3 1/2"

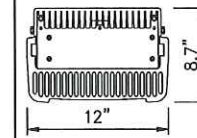
MANUFACTURER: KMW
PART#: ET-X-UW-70-16-70-18-IR-AT
LENGTH: 91.7"
WIDTH: 12"
DEPTH: 6.3"
WEIGHT: 51.8 lbs.



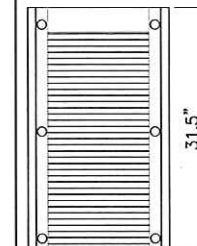
RF CONNECTORS, TYP



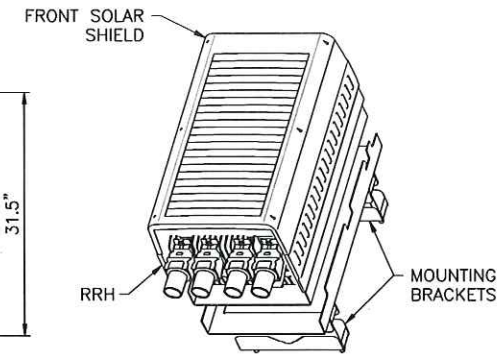
7 NEW ET-X-UW-70-16-70-18-IR-AT ANTENNA DETAIL



TOP



FRONT



ISO VIEW

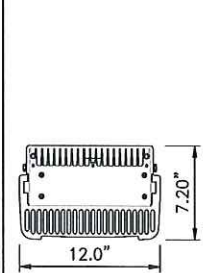
MANUFACTURER: ALCATEL-LUCENT
MODEL: RRH 4x25 WCS
HEIGHT: 31.5"
WIDTH: 12"
DEPTH: 8.7"
WEIGHT: 70 LBS

6 NEW RRH WCS DETAIL

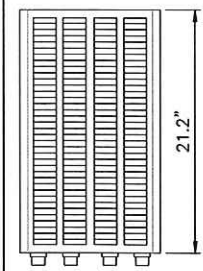
BACK TO BACK RRH MOUNT DETAIL



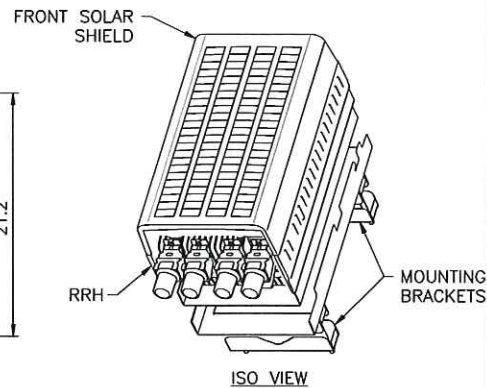
RF WARNING SIGNAGE



TOP



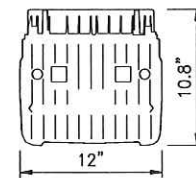
FRONT



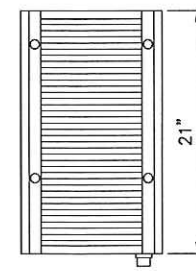
ISO VIEW

MANUFACTURER: ALCATEL-LUCENT
MODEL: RRH 4x30 B25 AWS
HEIGHT: 21.2" 538mm
WIDTH: 12.0" 304mm
DEPTH: 7.2" 182mm
WEIGHT: 53lbs 24.0kg

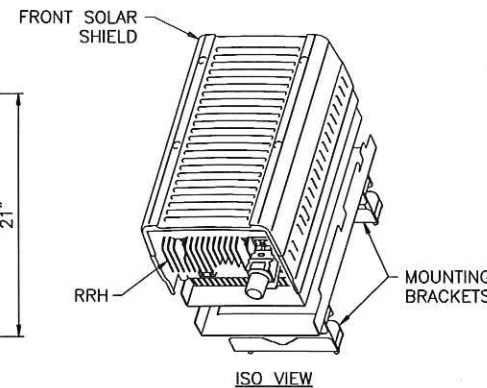
4 NEW RRH AWS DETAILS



TOP



FRONT

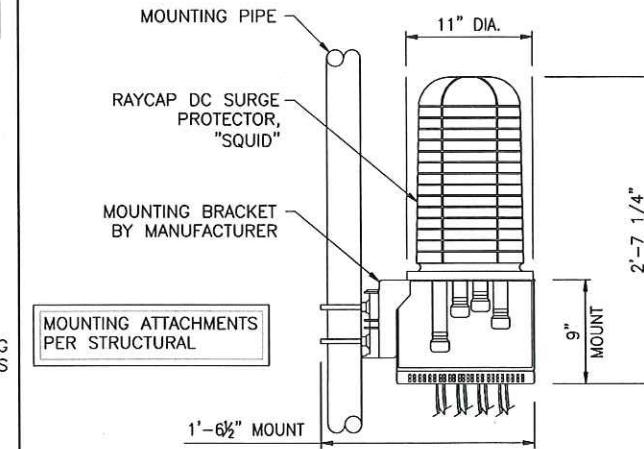


ISO VIEW

MANUFACTURER: ALCATEL-LUCENT
MODEL: RRH 2X40 700-L
HEIGHT: 21"
WIDTH: 12"
DEPTH: 10.8"
WEIGHT: 52.8 LBS

3 NEW RRH 700MHz DETAIL

MANUF: RAYCAP
DESC: SURGE PROTECTOR "SQUID"
MODEL: DC6-48-60-18-8F
WEIGHT: 32.6 LBS



FIBER & DC SURGE PROTECTOR

2 SURGE SUPPRESSOR DETAIL



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NORTH BEND, OR 97459

SITE NUMBER
OR503

SITE NAME
NORTH BEND

SEAL



DRAWN BY: CW CHECKED BY: CW APPROVED BY: JB

FA #: 10129848

REV	DATE	DESCRIPTION
A	5/5/17	PRELIMINARY CONSTRUCTION DRAWINGS
B	8/17/17	CLIENT COMMENTS
C	8/25/17	SUBMITTAL CONSTRUCTION DRAWINGS

SHEET TITLE

RF & EQUIPMENT DETAILS

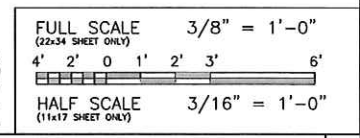
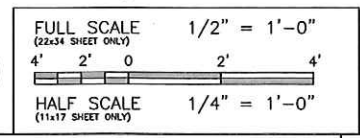
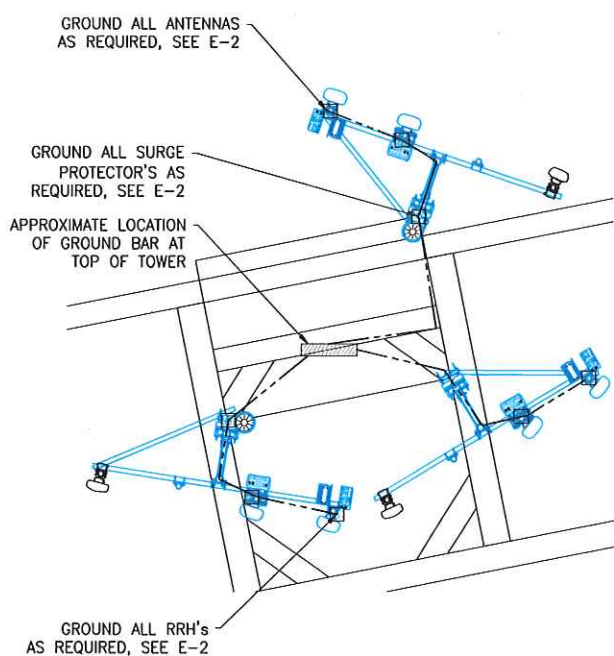
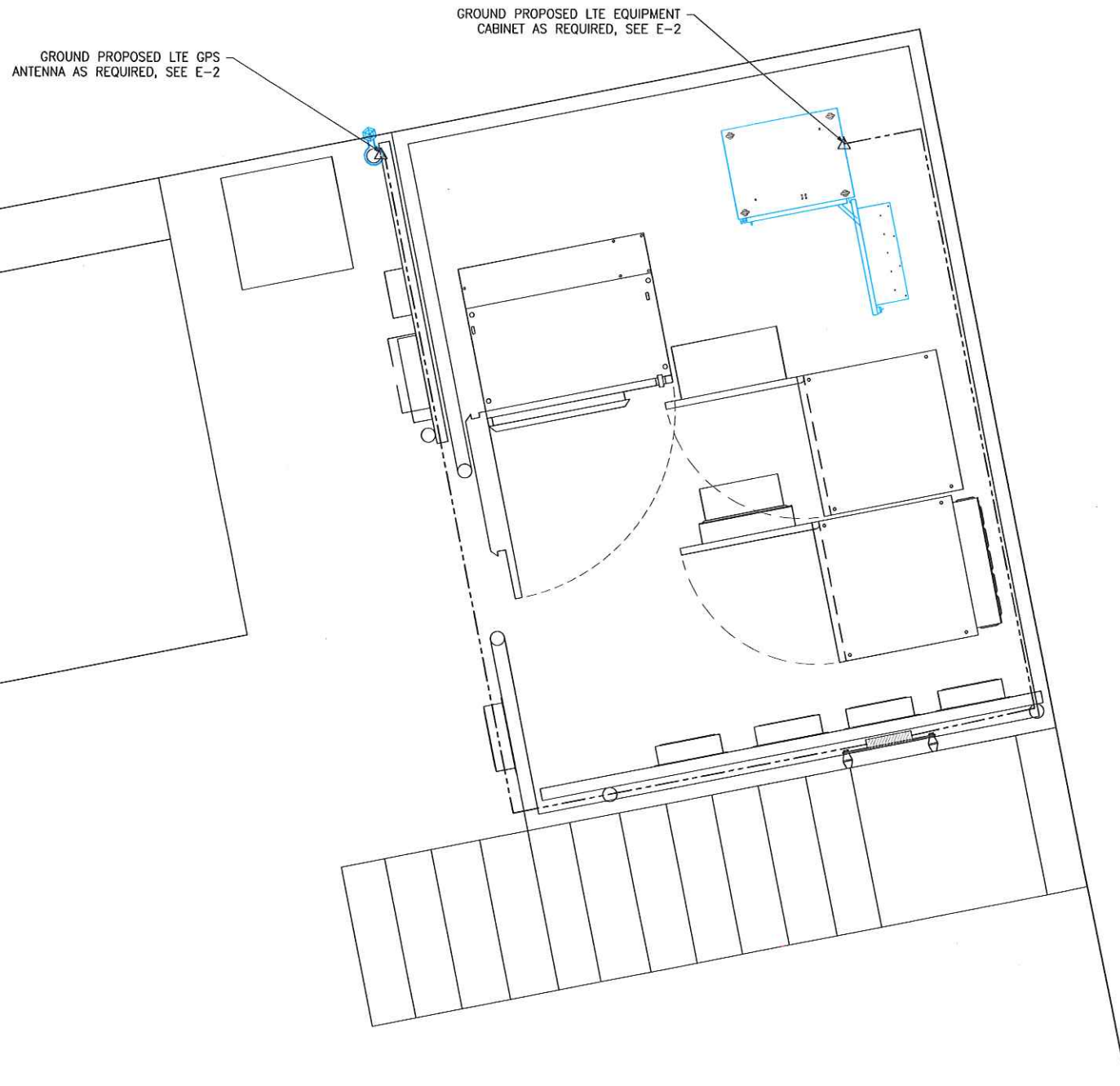
SHEET NUMBER

RF-2

SYMBOL	DESCRIPTION
⊗	COPPER GROUND ROD
⊠	TEST WELL
△	CADWELD CONNECTION
▨	GROUND BAR
□	MECHANICAL CONNECTION
	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM

- GENERAL GROUNDING NOTES:**
1. GROUNDING SHALL BE INSTALLED 6" BELOW FROST DEPTH OR 30" BELOW GRADE, WHICHEVER IS GREATER. CONFIRM FROST DEPTH WITH JURISDICTION.
 2. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
 3. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
 4. ALL GROUND CONNECTIONS SHALL BE CADWELDED. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
 5. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY AT&T REPRESENTATIVE.
 6. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
 7. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED AT&T MOBILITY REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING
 8. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

- GENERAL ROD NOTES (WHERE APPLICABLE):**
1. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
 2. 2 POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFOREMENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.



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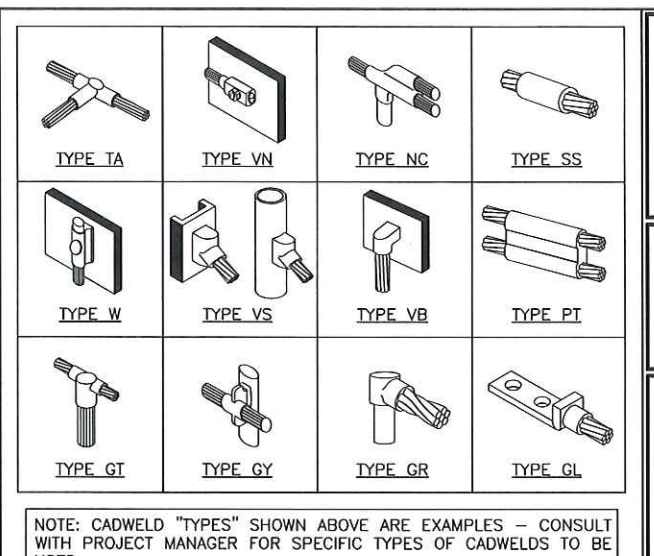
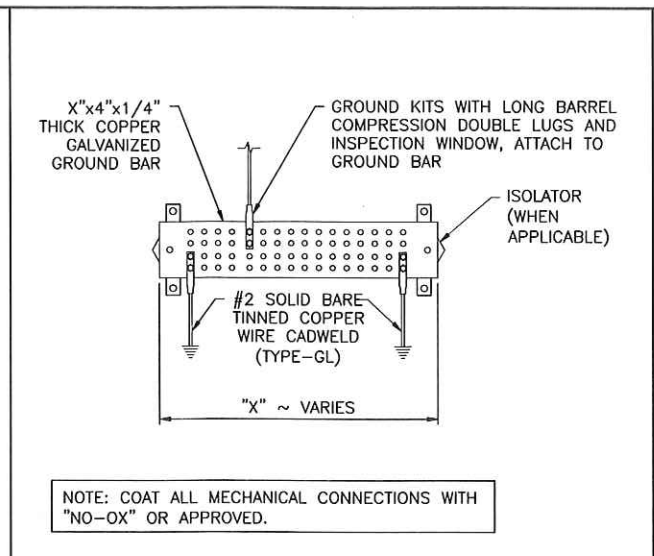
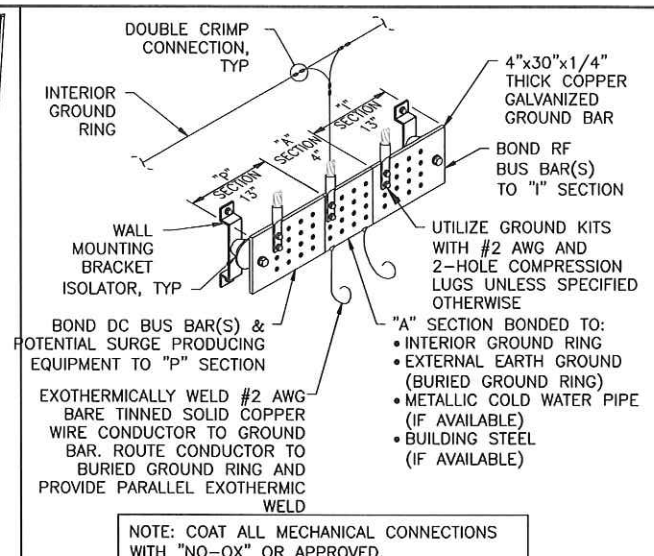
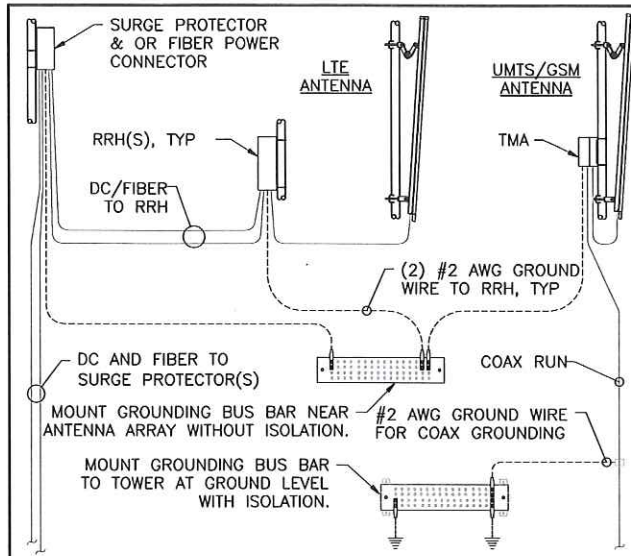
SEAL

ALAN E. MONEY
 EXPIRES: 12/31/18

REV	DATE	DESCRIPTION
A	5/5/17	PRELIMINARY CONSTRUCTION DRAWINGS
B	8/17/17	CLIENT COMMENTS
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SHEET TITLE
SCHEMATIC GROUNDING PLAN

SHEET NUMBER
E-1



GROUNDING SCHEMATIC DIAGRAM 5 CELL REFERENCE GROUND BAR (CRGB) 4 GROUND BAR 3 CAD WELD EXAMPLES 2

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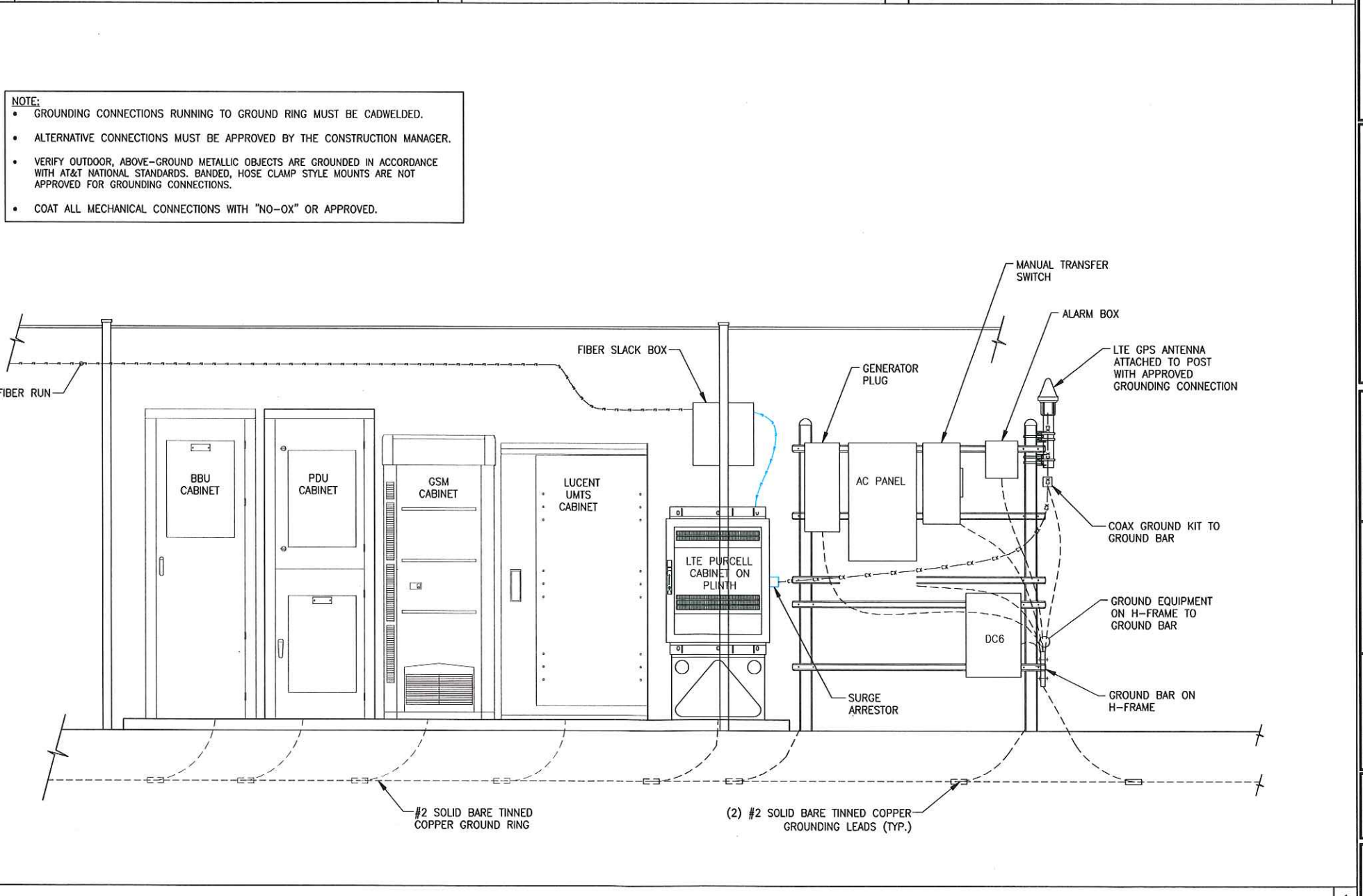
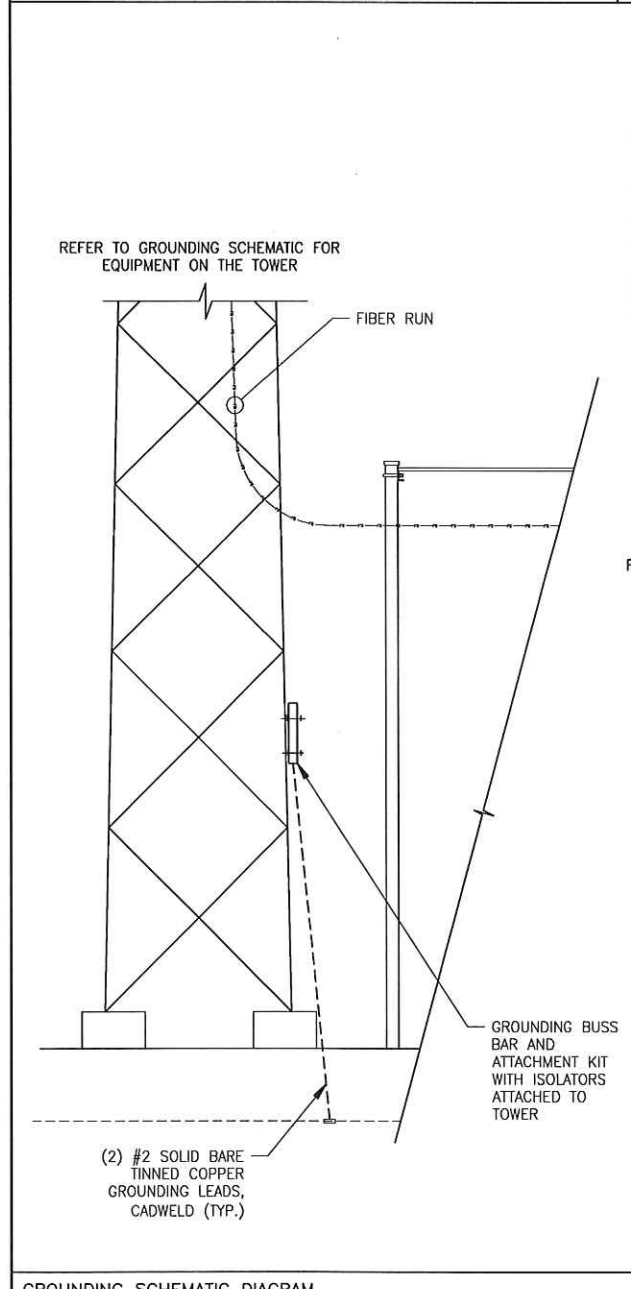
SITE NUMBER
 OR503

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NOTE:

- GROUNDING CONNECTIONS RUNNING TO GROUND RING MUST BE CADWELDED.
- ALTERNATIVE CONNECTIONS MUST BE APPROVED BY THE CONSTRUCTION MANAGER.
- VERIFY OUTDOOR, ABOVE-GROUND METALLIC OBJECTS ARE GROUNDED IN ACCORDANCE WITH AT&T NATIONAL STANDARDS. BANDED, HOSE CLAMP STYLE MOUNTS ARE NOT APPROVED FOR GROUNDING CONNECTIONS.
- COAT ALL MECHANICAL CONNECTIONS WITH "NO-OX" OR APPROVED.



FA #: 10129848

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DRAWN BY: CW CHECKED BY: CW APPROVED BY: JB

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
E-2

GROUNDING SCHEMATIC DIAGRAM 1