



PRE-APPLICATION CONFERENCE

Thursday, May 19, 2022

City Hall*
22500 Salamo Road

1:00 pm: **Proposed Class1 Design Review for a Modification to a Wireless Tower**
Applicant: **J5 Infrastructure Partners**
Property Address: **21400 Salamo Road**
Neighborhood Assn: **Savanna Oaks Neighborhood Association**
Planner: **Chris Myers** Project #: PA-22-16



*Pre-application conferences will be conducted in a hybrid format, with some staff and participants attending remotely via Webex and others attending in-person at City Hall.



PRE-APPLICATION CONFERENCE

THIS SECTION FOR STAFF COMPLETION

CONFERENCE DATE: 5/19/22	TIME: 1:00pm	PROJECT #: PA-22-16
STAFF CONTACT: Chris Myers		FEE: \$350

Pre-application conferences occur on the first and third Wednesdays of each month. In order to be scheduled for a conference, this form including property owner’s signature, the pre-application fee, and accompanying materials must be submitted by 4:00pm at least **15** days before the conference date. Twenty-four hour notice is required to reschedule.

Address of Subject Property (or map/tax lot): 21400 South Salamo Road

Brief Description of Proposal: Proposed modification with extension of RFP screening and adding/relacing equipment within the existing area.

Applicant’s Name: J5 Infrastructure Partners (on behalf of AT&T)

Mailing Address: 6732 SW Terri Ct., Portland, OR 97225

Phone No: (503) 312-3400 Email Address: mhewett@j5ip.com

Please attach additional materials relating to your proposal including a site plan on paper up to 11 x 17 inches in size depicting the following items:

- North arrow
- Scale
- Property dimensions
- Streets abutting the property
- Conceptual layout, design and/or building elevations
- Easements (access, utility, all others)
- Access to and from the site, if applicable
- Location of existing trees, highly recommend a tree survey
- Location of creeks and/or wetlands, highly recommend a wetland delineation
- Location of existing utilities (water, sewer, etc.)

Please list any questions or issues that you may have for city staff regarding your proposal:
Please provide detailed information about permit requirements for modifcaiton of the existing tower.

By my signature below, I grant city staff right of entry onto the subject property in order to prepare for the pre-application conference.

Property owner’s signature

Date

Received 4/21/22 by LS

ROIC Oregon. LLC, 16144 SE Happy Valley Town Center Dr, Happy Valley, OR 97086

Property owner’s printed name and mailing address
(if different from above)



March 30, 2022

RE: AT&T Cell Site Modification Consent Request
Site Number: 10092270 - PX30 CASCADE SUMMIT
Site Address: 21400 S Salamo Rd, West Linn, OR 97068

Reference is made to the original Oregon Lease Agreement ("Lease") dated October 16, 2005, between Cascade Summit Retail LLC, an Oregon limited liability company ("Landlord"), and New Cingular Wireless PCS, LLC, a Delaware limited liability company ("Tenant")

AT&T will soon be modifying its existing rooftop Wireless Facility at Cascade Summit Town Center. Pursuant to the Lease, Licensor approval of proposed modifications to the equipment is required. We anticipate the work to begin around mid-2023, though this is subject to change. I have attached preliminary construction plans showing the full work scope.

By signing below, you acknowledge your authorized consent to the proposed modification to the site, and that you are providing AT&T/J5ip to submit for any land-use and building related permits required from the local jurisdiction. Please return a scanned signed copy to my email address noted below.

Please feel free to contact me with any questions or concerns.

On behalf of AT&T Mobility, I thank you for your cooperation in this matter,

Natalie Erlund
Site Acquisition Specialist, Authorized AT&T Mobility Representative
503-539-9247 nerlund@J5ip.Com

Landlord Consent Provided By:

Signature: John Wynton

Printed Name: John Wynton

Title: Leasing Director

Date: April 29,2022

Contact Phone Number: 858-255-4918



J5 Infrastructure Partners

23 Mauchly #110

Irvine, CA 92618

April 21, 2022

City of West Linn

Planning & Development

22500 Salamo Rd #1000

West Linn, OR 97068

West Linn Planning & Development,

As a representative of J5 Infrastructure Partners, working on behalf of AT&T, I submit to you at this time these materials as a pre-application meeting request for our proposed modification of the wireless tower known as "PX30 Cascade Summit" located on a rooftop cupola on the Cascade Summit Town Square property.

Our proposed modification calls for the placement of an extended FRP screening and adding/replacing equipment within the existing area.

Please review the associated drawing package and application and respond accordingly.

Thank you,

Meredith Hewett

J5 Infrastructure Partners

503-312-3400

mhewett@j5ip.com

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 THESE CODES.

- OREGON BUILDING CODES AND STANDARDS:
- 2019 OREGON STRUCTURAL SPECIALTY CODE (2018 IBC)
 - 2019 OREGON MECHANICAL SPECIALTY CODE (2018 IBC)
 - 2017 OREGON RESIDENTIAL SPECIALTY CODE (2015 IRC)
 - 2017 OREGON ELECTRICAL SPECIALTY CODE (2017 NFPA 70)
 - ANSI/EIA-TIA-222-H



SITE NUMBER: PX30
SITE NAME: CASCADE SUMMIT
SITE TYPE: ROOFTOP CUPOLA
ADDRESS: 21400 SOUTH SALAMO ROAD
 WEST LINN, OR 97068
INSTALLATION TYPE: CBAND 5G

PROJECT INFORMATION

USID #	82052
FA #	10092270
PACE PARENT #	MRWOR053614
PACE CHILD #	MRWOR057963

PREPARED FOR

16331 NE 72ND AVE. STE. 2100
 PORTLAND, OR 97201

Vendor:

23 MAUCHLY #110
 IRVINE, CA 92618
 J5 PROJECT ID: P-071612

AT&T Site ID:

PX30

PROJECT DESCRIPTION

- MODIFICATION TO AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:
- EXISTING CUPOLA TO BE EXTENDED 6' TO FIT PROPOSED ANTENNAS
 - RETAIN (6) NNHH-65A-R4 PANEL ANTENNAS
 - RETAIN (9) RRH'S AT EQUIPMENT LEVEL
 - RETAIN (3) DUAL MODE FIBER JUMPER FIBER TRUNKS
 - RETAIN (3) DC JUMPER POWER TRUNKS
 - RETAIN (1) DC12-48-60-RM SURGE SUPPRESSOR AT EQUIPMENT LEVEL
 - INSTALL (3) PROPOSED NOKIA AEQK PANEL ANTENNAS
 - INSTALL (3) PROPOSED NOKIA AEQU PANEL ANTENNAS
 - INSTALL (1) PROPOSED DC6-48-60-0-1B-01 SURGE SUPPRESSOR AT ANTENNA LEVEL
 - INSTALL (3) PROPOSED PWRT-208-S POWER TRUNKS
 - INSTALL (1) PROPOSED RFFT-24SM-001-50M FIBER TRUNKS

REV	DATE	DESCRIPTION	INT.
0	04/21/22	100% CD	MLDV

Licenser:

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

Issued For:

PX30
 CASCADE SUMMIT
 21400 SOUTH SALAMO ROAD
 WEST LINN, OR 97068

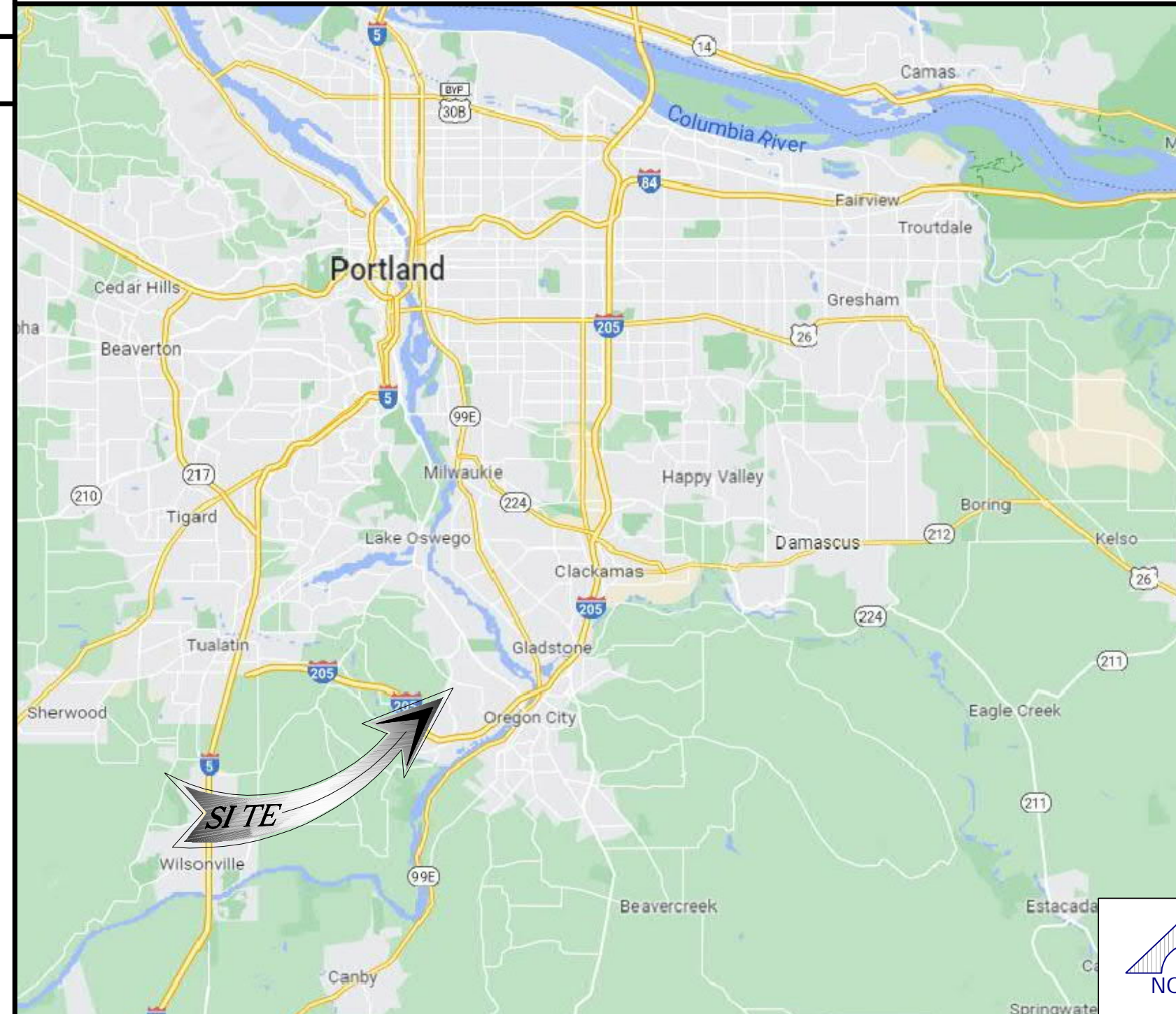
Sheet Title:

TITLE SHEET

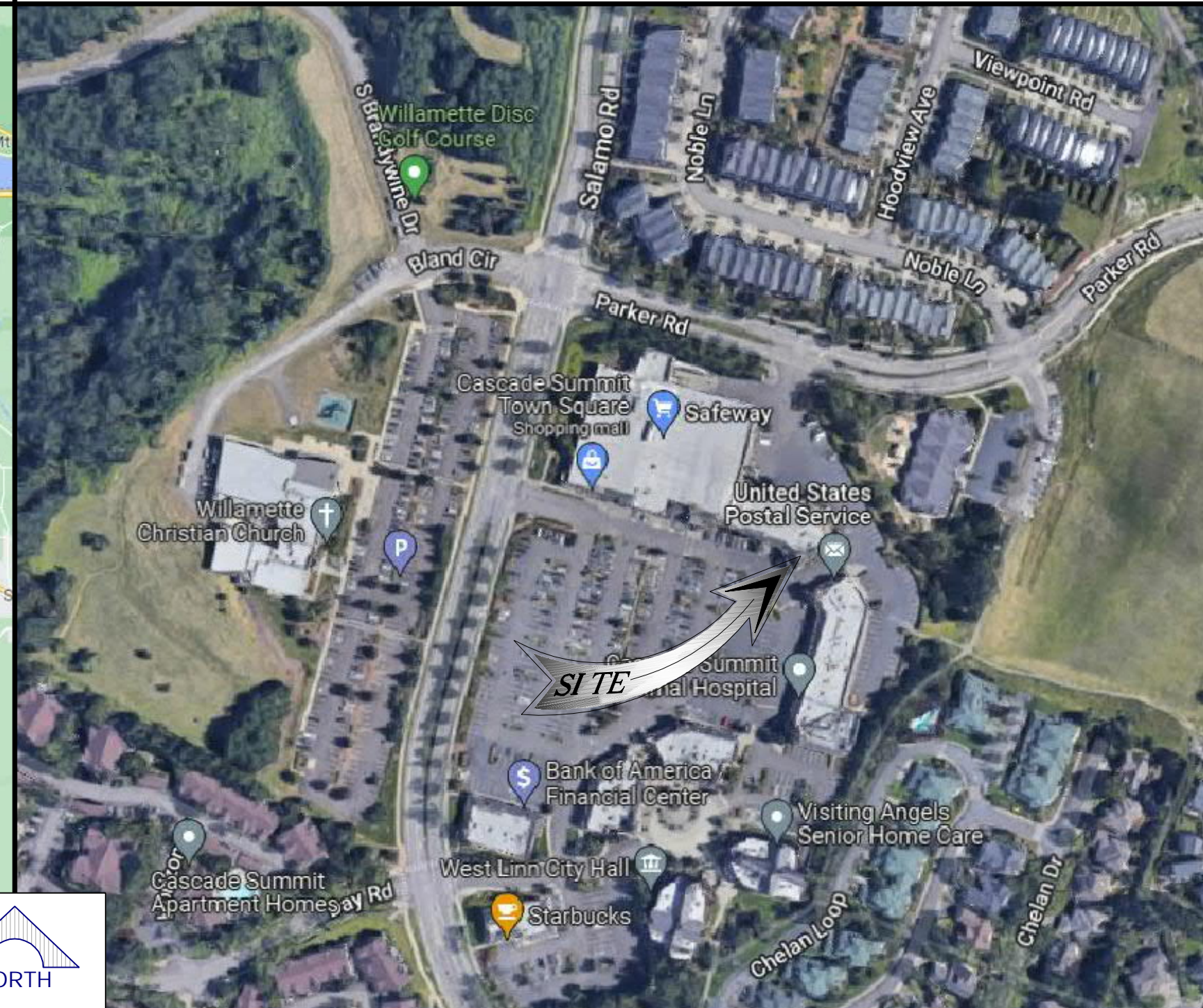
Sheet Number:

T-1

VICINITY MAP



LOCAL MAP



PROJECT TEAM

- | | |
|---|---|
| ENGINEER:
J5 INFRASTRUCTURE PARTNERS
CONTACT: JAMES CHUNG
EMAIL: jchung@j5ip.com
PHONE: (949) 247-7767 x 111 | SITE ACQUISITION:
J5 INFRASTRUCTURE PARTNERS
CONTACT: NATALIE ERLUND
EMAIL: nerlund@j5ip.com
PH: (503) 539-9247 |
| AT&T CONSTRUCTION MANAGER:
CONTACT: CHARLIE PITT
EMAIL: cp1261@att.com
PH: 971-295-6924 | CONSTRUCTION MANAGER:
J5 INFRASTRUCTURE PARTNERS
CONTACT: DEVIN TAYLOR
PH: (503) 309-1380 |
| AT&T RF ENGINEER:
CONTACT: CHRIS OSGOOD
EMAIL: co3884@att.com | A&E MANAGER:
J5 INFRASTRUCTURE PARTNERS
CONTACT: JOSH MALBERG
EMAIL: jmalberg@j5ip.com
PH: (208) 316-1897 |
| AT&T PROJECT MANAGER:
CONTACT: WENDY LONG
PH: (206) 321-1116 | PROJECT MANAGER:
J5 INFRASTRUCTURE PARTNERS
CONTACT: SARA MITCHELL
EMAIL: samitchell@j5ip.com
PH: (901) 281-1422 |

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" X 36". CONTRACTORS SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS 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.

STATEMENTS

STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

DRIVING DIRECTIONS

- DIRECTIONS FROM PDX AIRPORT
- HEAD NORTHWEST ON NE AIRPORT WAY
 - TURN LEFT
 - SLIGHT LEFT ONTO NE AIRPORT WAY
 - USE THE RIGHT 2 LANES TO TURN SLIGHTLY RIGHT TO MERGE ONTO I-205 S TOWARD I-84/PORTLAND/SALEM
 - FOLLOW I-205 S TO WILLAMETTE DR IN WEST LINN. TAKE EXIT 8 FROM I-205 S
 - MERGE ONTO I-205 S
 - TAKE EXIT 8 FOR STATE ROUTE 43 TOWARD W LINN/LAKE OSWEGO
 - TAKE WILLAMETTE FALLS DR, SUNSET AVE AND PARKER RD TO YOUR DESTINATION
 - TURN LEFT ONTO WILLAMETTE DR
 - TURN RIGHT ONTO WILLAMETTE FALLS DR
 - SLIGHT RIGHT ONTO SUNSET AVE
 - TURN RIGHT ONTO CORNWALL ST
 - TURN LEFT AT THE 2ND CROSS STREET ONTO LANCASTER ST
 - TURN RIGHT ONTO PARKER RD
 - TURN LEFT TO STAY ON PARKER RD
 - TURN LEFT
 - TURN RIGHT (DESTINATION WILL BE ON THE RIGHT)

800-227-2600
 Call 2 Full Working Days In Advance

SHEET INDEX

	TITLE	REV.
T-1	TITLE SHEET	0
GN-1	GENERAL NOTES	0
GN-2	SITE SIGNAGE	0
A-1	OVERALL SITE PLAN	0
A-2	ENLARGED SITE PLAN & EQUIPMENT PLANS	0
A-3	EXISTING AND PROPOSED ANTENNA PLANS	0
A-4	SOUTHWEST ELEVATIONS	0
A-5	EXISTING & PROPOSED ANTENNA SCHEDULES	0
D-1	DETAILS	0
RF-1	PLUMBING DIAGRAM	0
G-1	GROUNDING PLAN & NOTES	0
G-2	GROUNDING DETAILS	0

SITE INFORMATION

PROPERTY OWNER:
 ROIC OREGON, LLC
 16144 SE HAPPY VALLEY TOWN CENTER DR
 HAPPY VALLEY, OR
 97086

JURISDICTION: CITY OF WEST LINN
 A.P.N.: 00391819
 CURRENT ZONING: COMMERCIAL
 EXISTING USE: MULTIUSE, COMMUNICATIONS FACILITY
 PROPOSED USE: MULTIUSE, COMMUNICATIONS FACILITY
 LATITUDE (NAD 83): 45.43640500
 45° 21' 50.58" N
 LONGITUDE (NAD 83): -122.6467500
 122° 38' 48.3" W

ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS NOT REQUIRED PER CBC2019, SECTION 11B-203.4 (LIMITED ACCESS SPACE)

POWER AGENCY: PG&E
 PH: (800) 743-5000
 TELEPHONE AGENCY: AT&T

RFDS VERSION: 1
 DATE: 2/1/21
 DATE UPDATED: 12/13/21

GENERAL CONSTRUCTION NOTES:

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

APPLICABLE CODES, REGULATIONS 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.
- 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, FIFTEENTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - 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 ELECTRICAL EQUIPMENT.
 - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
 - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
 - EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
 - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
 - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
 - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

A.B. ANCHOR BOLT
 ABV. ABOVE
 ACCA ANTENNA CABLE COVER ASSEMBLY
 ADD'L ADDITIONAL
 A.F.F. ABOVE FINISHED FLOOR
 A.F.G. ABOVE FINISHED GRADE
 ALUM. ALUMINUM
 ALT. ALTERNATE
 ANT. ANTENNA
 APPRX. APPROXIMATE(LY)
 ARCH. ARCHITECT(URAL)
 AWG. AMERICAN WIRE GAUGE
 BLDG. BUILDING
 BLK. BLOCK
 BLKG. BLOCKING
 BM. BEAM
 B.N. BOUNDARY NAILING
 BTCW. BARE TINNED COPPER WIRE
 B.O.F. BOTTOM OF FOOTING
 B/U BACK-UP CABINET
 CAB. CABINET
 CANT. CANTILEVER(ED)
 C.I.P. CAST IN PLACE
 CLG. CEILING
 CLR. CLEAR
 COL. COLUMN
 CONC. CONCRETE
 CONN. CONNECTION(OR)
 CONST. CONSTRUCTION
 CONT. CONTINUOUS
 d PENNY (NAILS)
 DBL. DOUBLE
 DEPT. DEPARTMENT
 D.F. DOUGLAS FIR
 DIA. DIAMETER
 DIAG. DIAGONAL
 DIM. DIMENSION
 DWG. DRAWING(S)
 DWL. DOWEL(S)
 EA. EACH
 EL. ELEVATION
 ELEC. ELECTRICAL
 ELEV. ELEVATOR
 EMT. ELECTRICAL METALLIC TUBING
 E.N. EDGE NAIL
 ENG. ENGINEER
 EQ. EQUAL
 EXP. EXPANSION
 EXST.(E) EXISTING
 EXT. EXTERIOR
 FAB. FABRICATION(OR)
 F.F. FINISH FLOOR
 F.G. FINISH GRADE
 FIN. FINISH(ED)
 FLR. FLOOR

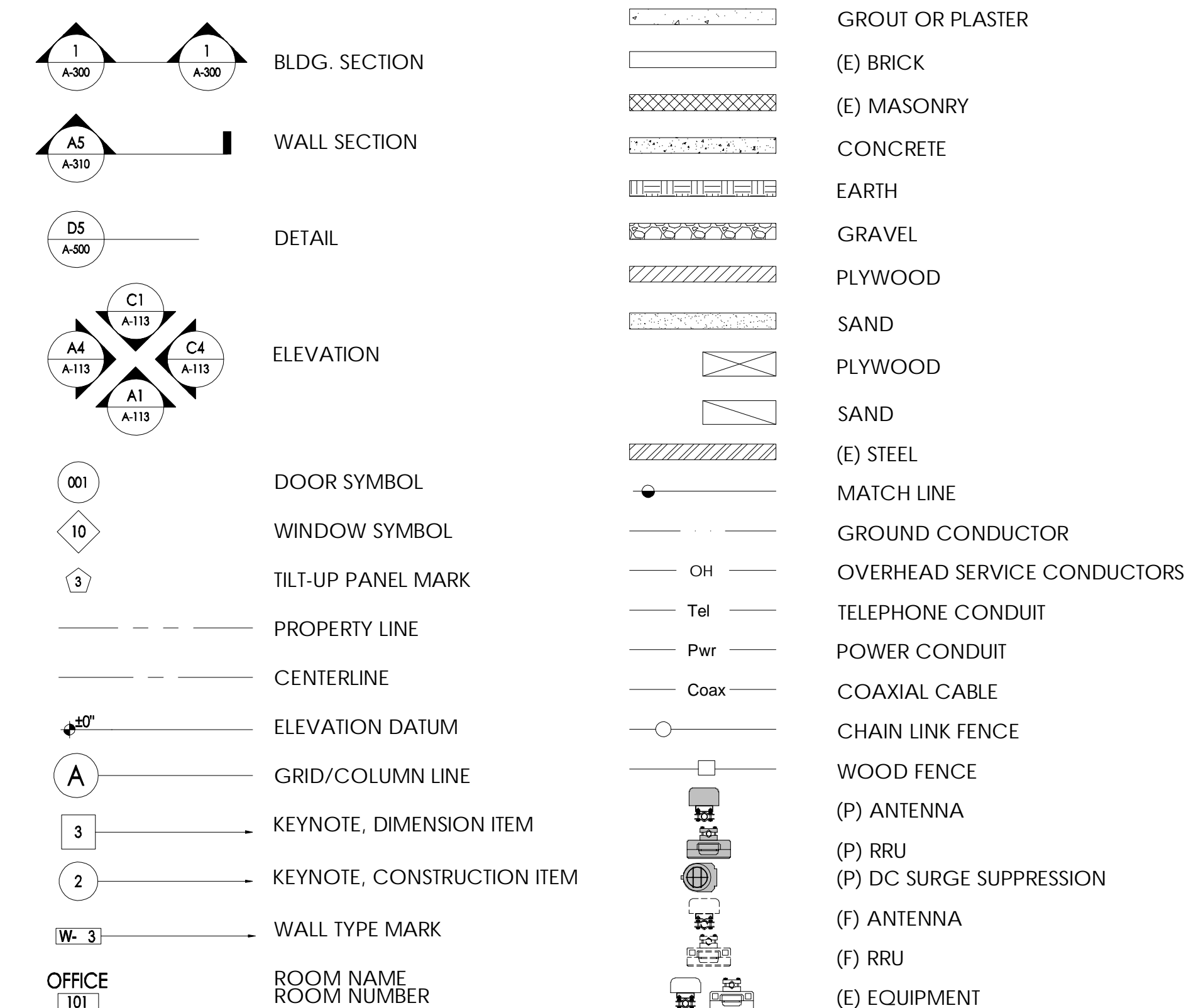
ANCHOR BOLT
 ABOVE
 ANTENNA CABLE COVER ASSEMBLY
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 ABOVE FINISHED FLOOR
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 CONNECTION(OR)
 CONSTRUCTION
 CONTINUOUS
 PENNY (NAILS)
 DOUBLE
 DEPARTMENT
 DOUGLAS FIR
 DIAMETER
 DIAGONAL
 DIMENSION
 DRAWING(S)
 DOWEL(S)
 EACH
 ELEVATION
 ELECTRICAL
 ELEVATOR
 ELECTRICAL METALLIC TUBING
 EDGE NAIL
 ENGINEER
 EQUAL
 EXPANSION
 EXISTING
 EXTERIOR
 FABRICATION(OR)
 FINISH FLOOR
 FINISH GRADE
 FINISH(ED)
 FLOOR

FDN. FOUNDATION
 F.O.C. FACE OF CONCRETE
 F.O.M. FACE OF MASONRY
 F.O.S. FACE OF STUD
 F.O.W. FACE OF WALL
 F.S. FINISH SURFACE
 FT.(') FOOT (FEET)
 FTG. FOOTING
 G. GROWTH (CABINET)
 GA. GAUGE
 GI. GALVANIZE(D)
 G.F.I. GROUND FAULT CIRCUIT
 INTERRUPTER
 GLB. (GLU-LAM) GLUE LAMINATED BEAM
 GPS GLOBAL POSITIONING SYSTEM
 GRND. GROUND
 HDR. HEADER
 HGR. HANGER
 HT. HEIGHT
 ICGB. ISOLATED COPPER GROUND BUS
 IN. (") INCH(ES)
 INT. INTERIOR
 LB.(#) POUND(S)
 L.B. LAG BOLTS
 L.F. LINEAR FEET (FOOT)
 L. LONG(ITUDINAL)
 MAS. MASONRY
 MAX. MAXIMUM
 M.B. MACHINE BOLT
 MECH. MECHANICAL
 MFR. MANUFACTURER
 MIN. MINIMUM
 MISC. MISCELLANEOUS
 MTL. METAL
 (N) NEW
 NO.(#) NUMBER
 N.T.S. NOT TO SCALE
 O.C. ON CENTER
 OPNG. OPENING
 P/C PRECAST CONCRETE
 PCS PERSONAL COMMUNICATION
 PLY. PLYWOOD
 PPC POWER PROTECTION CABINET
 PRC PRIMARY RADIO CABINET
 P.S.F. POUNDS PER SQUARE FOOT
 P.S.I. POUNDS PER SQUARE INCH
 P.T. PRESSURE TREATED
 PWR. POWER (CABINET)
 QTY. QUANTITY
 RAD.(R) RADIUS
 REF. REFERENCE
 REINF. REINFORCEMENT(ING)
 REQ'D/ REQUIRED
 RGS. RIGID GALVANIZED STEEL

ABBREVIATIONS:

SCH. SCHEDULE
 SHT. SHEET
 SIM. SIMILAR
 SPEC. SPECIFICATIONS
 SQ. SQUARE
 S.S. STAINLESS STEEL
 STD. STANDARD
 STL. STEEL
 STRUC. STRUCTURAL
 TEMP. TEMPORARY
 THK. THICK(NESS)
 T.N. TOE NAIL
 T.O.A. TOP OF ANTENNA
 T.O.C. TOP OF CURB
 T.O.F. TOP OF FOUNDATION
 T.O.P. TOP OF PLATE (PARAPET)
 T.O.S. TOP OF STEEL
 T.O.W. TOP OF WALL
 TYP. TYPICAL
 U.G. UNDER GROUND
 U.L. UNDERWRITERS LABORATORY
 U.N.O. UNLESS NOTED OTHERWISE
 V.I.F. VERIFY IN FIELD
 W. WIDE (WIDTH)
 W/ WITH
 WD. WOOD
 W.P. WEATHERPROOF
 WT. WEIGHT
 ☐ CENTERLINE
 ☐ PLATE, PROPERTY LINE

SYMBOLS LEGEND:



PREPARED FOR



16331 NE 72ND AVE. STE. 2100
 PORTLAND, OR 97201

Vendor:



23 MAUCHLY #110
 IRVINE, CA 92618
 JS PROJECT ID: P-071612

AT&T Site ID:

PX30

REV	DATE	DESCRIPTION	INT.
0	04/21/22	100% CD	MLDV



It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

Issued For:
PX30
 CASCADE SUMMIT
 21400 SOUTH SALAMO ROAD
 WEST LINN, OR 97068

Sheet Title:
GENERAL NOTES

Sheet Number:
GN-1

This Site Operated by:
AT&T MOBILITY
 16331 NE 72ND AVE. STE. 2100
 PORTLAND, OR 97201
 IN CASE OF FIRE AND THE NEED FOR SHUTDOWN
 TO DEACTIVATE ANTENNAS CALL THE
 FOLLOWING NUMBER:
 For 24 Hour Emergency Contact and Access Please Call:
 (800)832-6662

Reference Site#: PX30

Site Address: 21400 SOUTH SALAMO ROAD WEST LINN, OR 97068

10 FENCED COMPOUND SIGNAGE
N.T.S.

DANGER

NO TRESPASSING

9 FENCED COMPOUND SIGNAGE
N.T.S.

NOTICE

AUTHORIZED PERSONNEL ONLY

8 DOOR / EQUIPMENT SIGN
N.T.S.

DANGER

DIESEL FUEL
NO SMOKING
NO OPEN FLAMES

DANGER

LEAD ACID BATTERIES
CORROSIVE LIQUIDS (ELECTROLYTE)
ENERGIZED ELECTRICAL CIRCUITS
NO SMOKING

7 NFPA HAZARD SIGN - TYPICAL
N.T.S.

INFORMATION

Federal Communications Communication
Tower Registration Number

1 2 3 4 5 6 7

Posted in accordance with federal Communications
Commission rules and antenna tower registration
47CFR 17.4(g).

6 FCC ASR SIGNAGE
N.T.S.

Property of AT&T

Authorized Personnel Only

No Trespassing
Violators will be Prosecuted

In case of emergency, or prior to performing
maintenance on this site, call _____
and reference cell site number _____

5 GATE SIGNAGE
N.T.S.

Property of AT&T

Authorized Personnel Only

In case of emergency, or prior to performing
maintenance on this site, call _____
and reference cell site number _____

4 SHELTER / CABINET DOORS SIGNAGE
N.T.S.

NOTICE

AT&T operates antennas at this site.
Beyond This Point you are entering an area
where radio frequency (RF) fields may exceed
the FCC General Population Exposure Limits.
Follow safety guidelines for working in an RF
environment.
Contact AT&T at 800-638-2822, option 9 and 3,
and follow their instructions prior to performing
maintenance or repairs above this point.

Notice Sign 2
(8" x 12")

CAUTION

AT&T operates antennas at this site.
Beyond This Point you are entering an area
where radio frequency (RF) fields may exceed
the FCC Occupational Exposure Limits.
Follow safety guidelines for working in an RF
environment.
Contact AT&T at 800-638-2822, option 9 and 3,
and follow their instructions prior to performing
maintenance or repairs beyond this point.

Caution Sign 2
(8" x 12")

NOTICE TO WORKERS

AVISO A LOS TRABAJADORES

EN ESTE TERCIO HAY ANTENAS DE RADIOFRECUENCIA. POR
ENCENTRARSE EN ESTE AREA SE ENTRA EN UN AREA
DONDE LOS CAMPOS ELECTROMAGNETICOS DE RADIOFRECUENCIA
PUEDE EXCEDER LOS LIMITES DE EXPOSICION PERMISOS
DE LA FCC.

SE RECOMIENDA QUE SE SIGAN LAS GUÍAS DE SEGURIDAD
PARA TRABAJAR EN UN ENTORNO DE RF.

CONTACTA A AT&T AL 800-638-2822, OPCION 9 Y 3,
Y SIGUE SUS INSTRUCCIONES ANTES DE REALIZAR
MANTENIMIENTO O REPARACIONES EN ESTE PUNTO.

Trilingual Notice Sign

CAUTION

AT&T operates antennas at this site.
In The Striped Area you are entering an area
where radio frequency (RF) fields may exceed
the FCC Occupational Exposure Limits.
Follow safety guidelines for working in an RF
environment.
Contact AT&T at 800-638-2822, option 9 and 3,
and follow their instructions prior to performing
maintenance or repairs within the striped area.

Caution Sign 2A
(8" x 12")
Use only if instructed by RF Safety

CAUTION

On this tower:
 Radio frequency (RF) fields near some antennas
may exceed the FCC Occupational Exposure Limits.
Contact AT&T at 800-638-2822, option 9 and 3,
and follow their instructions prior to performing
maintenance or repairs beyond this point.
Personnel climbing this tower should be trained
for working in RF environments and use a personal
RF monitor if working near active antennas.

Caution Sign 2B Tower
(8" x 12")
Use for Towers only

CAUTION

AT&T operates antennas at this site.
Beyond This Point you are entering an area
where radio frequency (RF) fields may exceed
the FCC Occupational Exposure Limits.
Follow safety guidelines for working in an RF
environment.
Contact AT&T at 800-638-2822, option 9 and 3,
and follow their instructions prior to performing
maintenance or repairs beyond this point.

Caution Sign 2C Parapet
(5" x 7")

Warning Sign #WA-1B-AL-128

Warning Sign #WA-2A-AL-128

Note: Both signs have the same 8" x 12" dimensions

Shall be used when barriers are present or will be deployed around AT&T antennas – **Warning 1B**

Shall be used in lieu of barriers along with striping when barriers are not allowed – **Warning 2A**

REQUIRE HQ / MRFSE APPROVAL

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. FABRICATION:
 *SIGN 1-1: ENTRANCE DOOR, SEE DETAIL 1A, THIS SHEET

SIGN 1 IS TO BE MADE ON THE 50 MIL ALUMINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) w/ FOUR (4) 1/4 INCH MOUNTING HOLES, ONE EACH CORNER OF THE SIGN FOR MOUNTING w/ HARDWARE w/ TIE WRAPS. THE MAIN BACKGROUND COLOR IS TO BE WHITE FRONT & BACK w/ BLACK LETTERING.

THE INFORMATION BAND SHALL BE 1.2 INCH SOLID GREEN BAND w. 0.5 INCH HIGH BLACK LETTERING. THE BODY TEXT SHALL BE IN BLACK LETTERING w/0.2 INCH HIGH LETTERS. THE REF LINE SHALL BE IN 1/8 INCH LETTERS.

THE PLACEMENT OF TEXT SHALL BE DONE IN A MANNER THAT WILL PERMIT EASY READING FROM A DISTANCE OF APPROXIMATELY 6 FEET IN FRONT OF THE SIGN.

2 ALERTING & INFORMATION SIGNAGE
N.T.S.

ALL PAINT WILL BE BAKED w/ENAMEL w/ UV PROTECTIVE COATING OVER THE FACE OF THE SIGN.

*SIGN 1-2: POLE, SEE DETAIL 1B, THIS SHEET

SIGN 2 MUST BE A NON METALLIC LABEL w/ AN ADHESIVE BACKING. THE LABEL SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIAL. THE LABEL SHALL BE APPROXIMATELY 5X7 INCHES w/ A WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH IN HEIGHT & THE LETTERING SHALL BE BLACK w/ 0.75 INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE PLACED OVER THE FRONT OF THE LABEL.

*SIGN 1-3: BACK OF ANTENNAS, SEE DETAIL 1C & 3, THIS SHEET

*SIGN 3 IS A 1 INCH X 2 INCH PANEL THAT CAN BE APPLIED TO THE BACK OR SIDE OF AN ANTENNA TO IDENTIFY IT AS AN AT&T ANTENNA.

*SIGN 1-4: SIDE OF ANTENNAS, SEE DETAIL 1D & 3, THIS SHEET

SIGN 4 IS MADE FROM TRANSPARENT MATERIAL 1-1/2 INCHES WIDE & 24 INCHES LONG. THE LETTERING IS TO BE BLACK 1/2 INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN.

SIGNAGE AND STRIPING INFORMATION

- THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT w/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
- ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR AND THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY w/ ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
- PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION.
- STRIPING SHALL BE DONE w/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE w/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED w/ FADE RESTRAINT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER w/ A DETAILED SHOP DRAWING OF EACH BARRICADE UPON CONSTRUCTION COMPLETION.

1 GENERAL NOTES
N.T.S.

PREPARED FOR

16331 NE 72ND AVE. STE. 2100
PORTLAND, OR 97201

Vendor:

23 MAUCHLY #110
IRVINE, CA 92618

J5 PROJECT ID: P-071612

AT&T Site ID:

PX30

REV	DATE	DESCRIPTION	INT.
0	04/21/22	100% CD	MLDV

Licenser:

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Issued For:

PX30

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21400 SOUTH SALAMO ROAD
WEST LINN, OR 97068

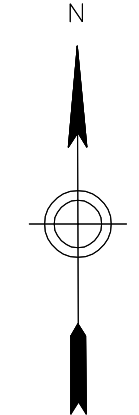
Sheet Title:


SITE SIGNAGE

Sheet Number:

GN-2

THIS IS NOT A SITE SURVEY
 ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.



PREPARED FOR

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 PORTLAND, OR 97201

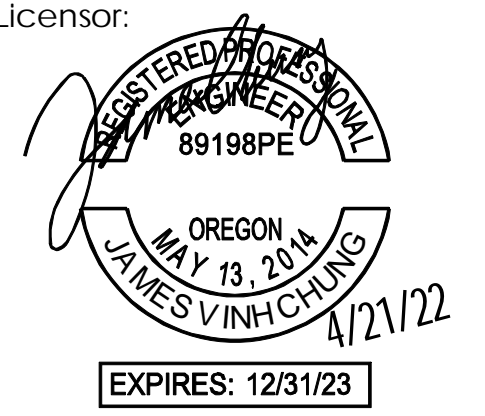
Vendor:

 23 MAUCHLY #110
 IRVINE, CA 92618
 J5 PROJECT ID: P-071612

AT&T Site ID:
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0	04/21/22	100% CD	MLDV

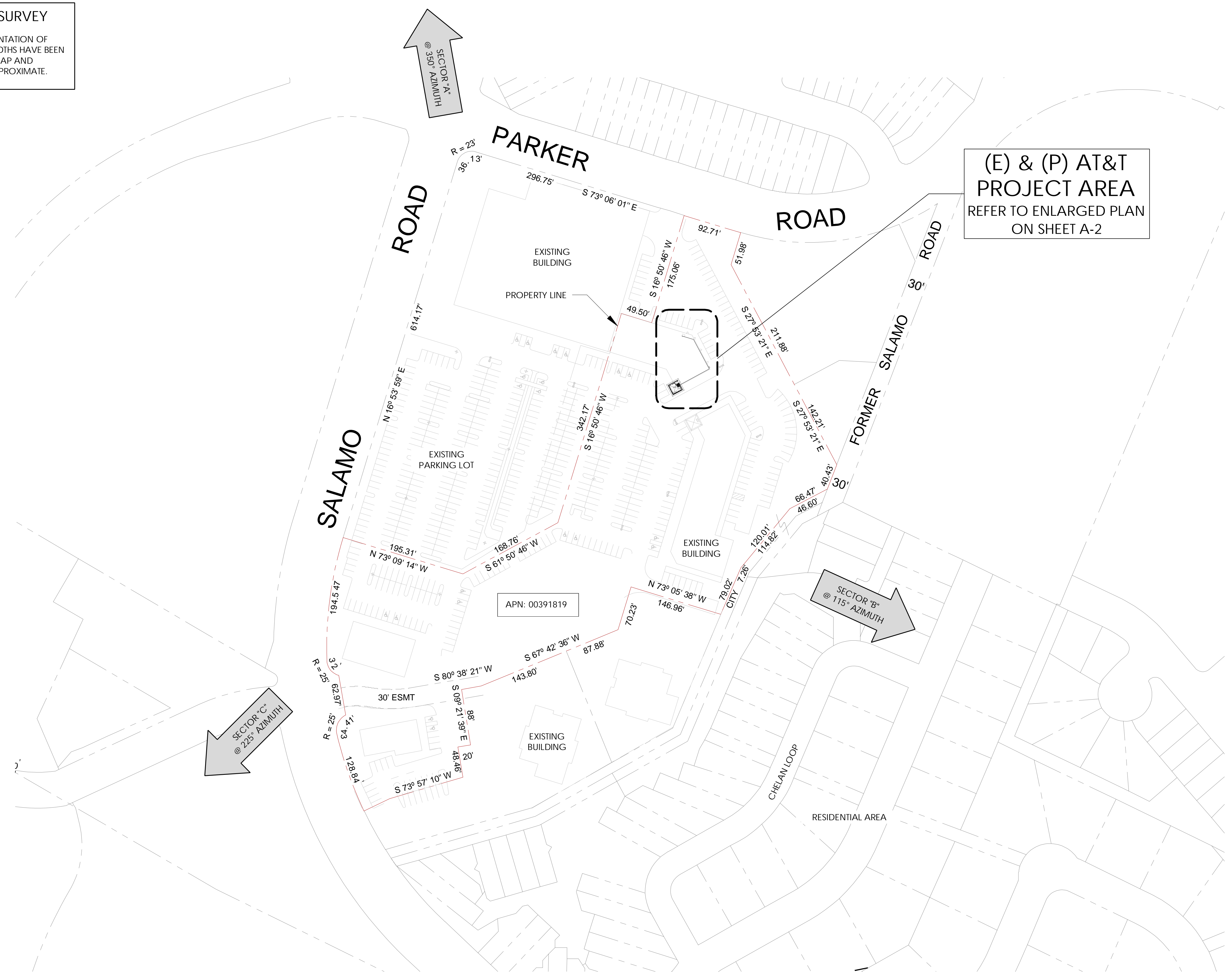
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Sheet Title:
OVERALL SITE PLAN

Sheet Number:
A-1



(E) & (P) AT&T PROJECT AREA
 REFER TO ENLARGED PLAN ON SHEET A-2

APN: 00391819

PREPARED FOR



16331 NE 72ND AVE, STE. 2100
PORTLAND, OR 97201

Vendor:



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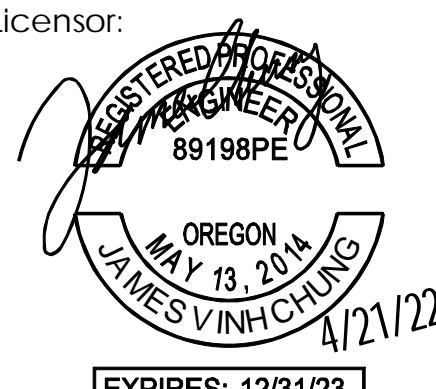
JS PROJECT ID: P-071612

AT&T Site ID:

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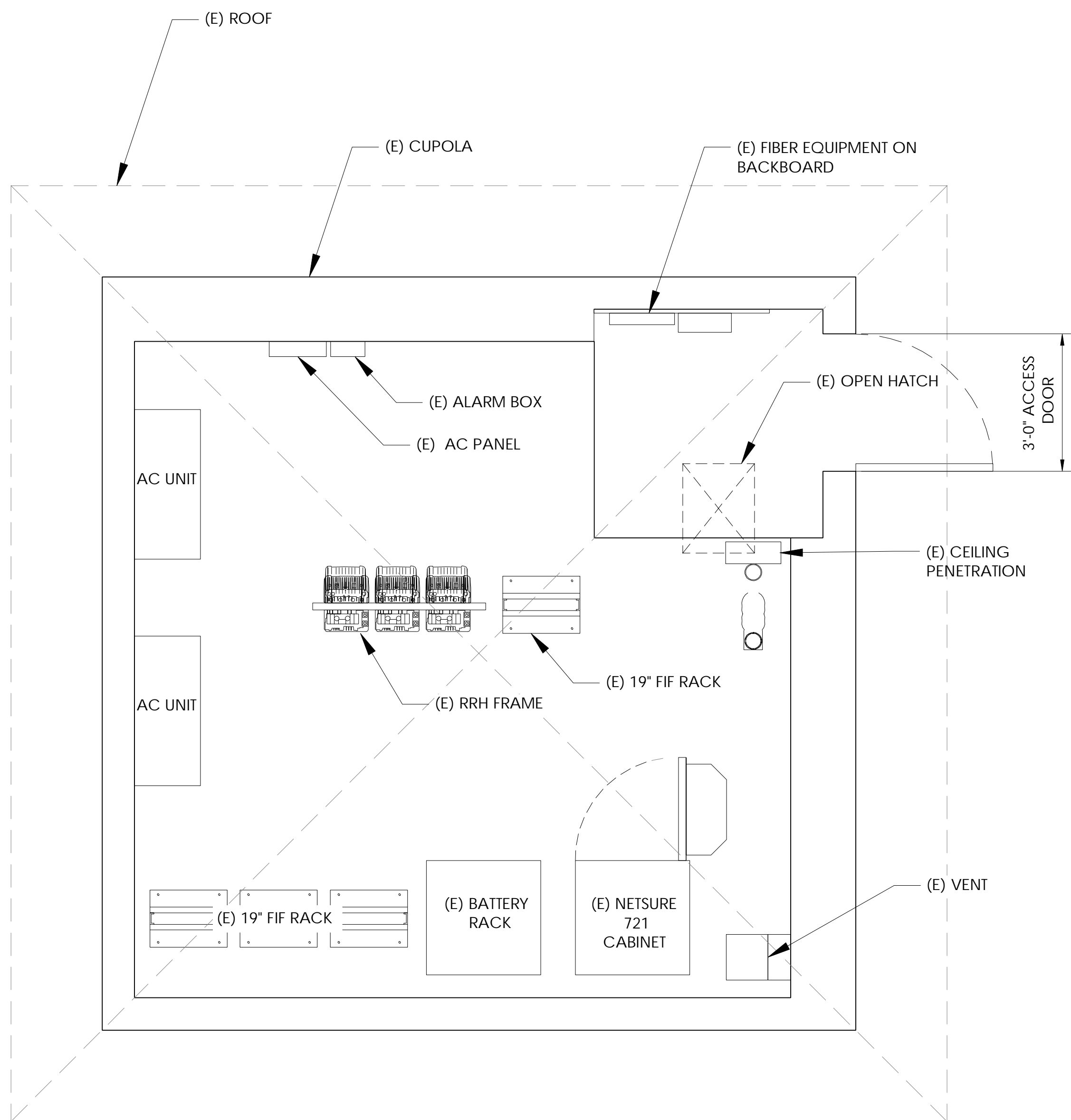
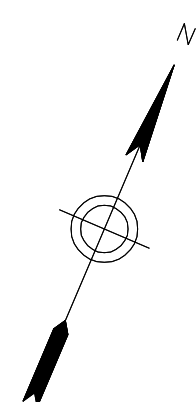
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21400 SOUTH SALAMO ROAD
WEST LINN, OR 97068

Sheet Title:

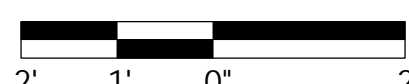
ENLARGED SITE PLAN & EQUIPMENT PLANS

Sheet Number:

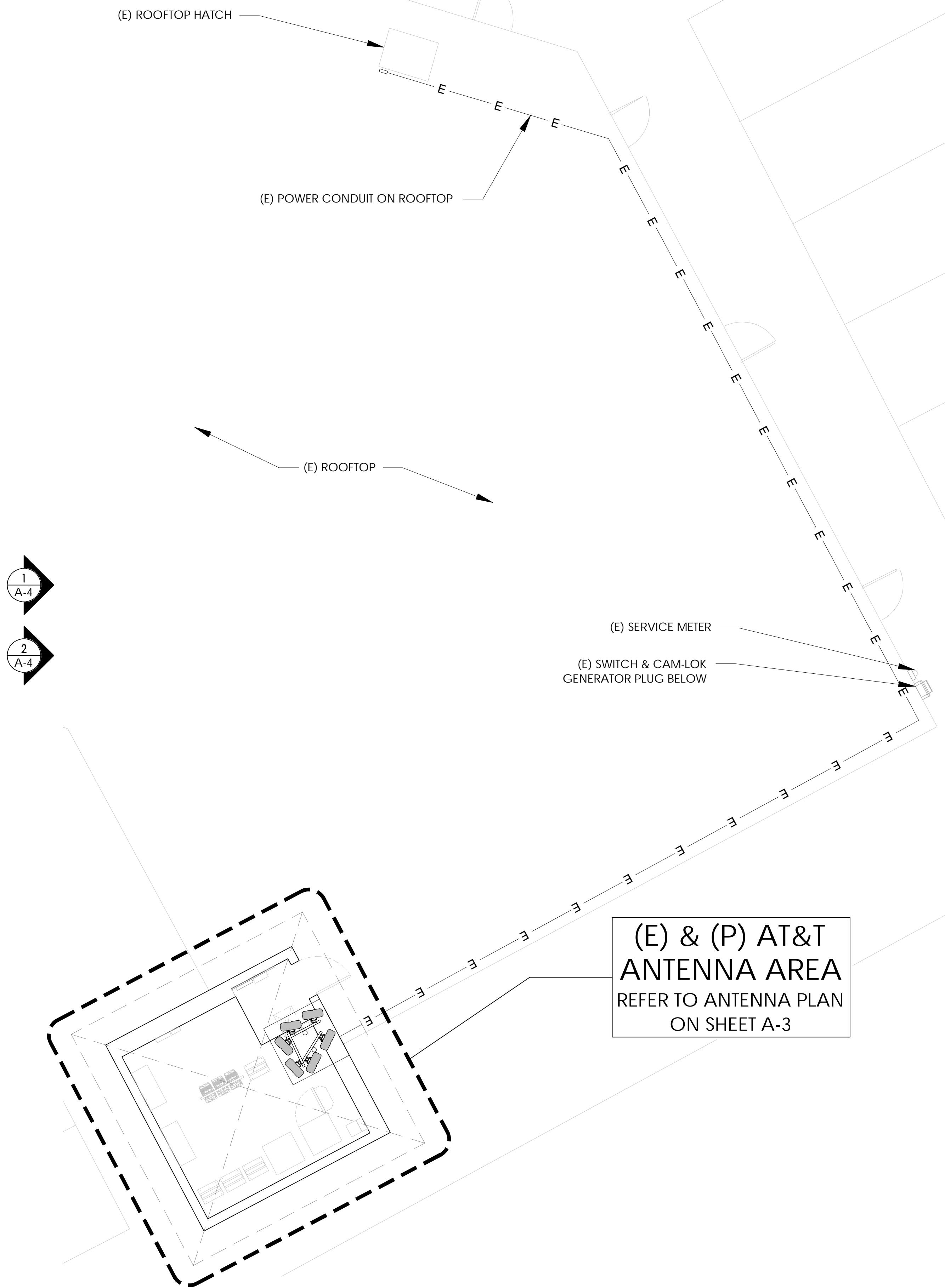
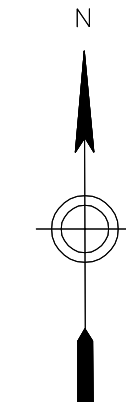
A-2



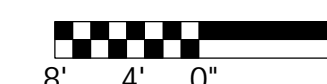
24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



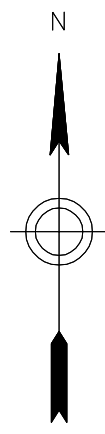
2 EQUIPMENT PLAN



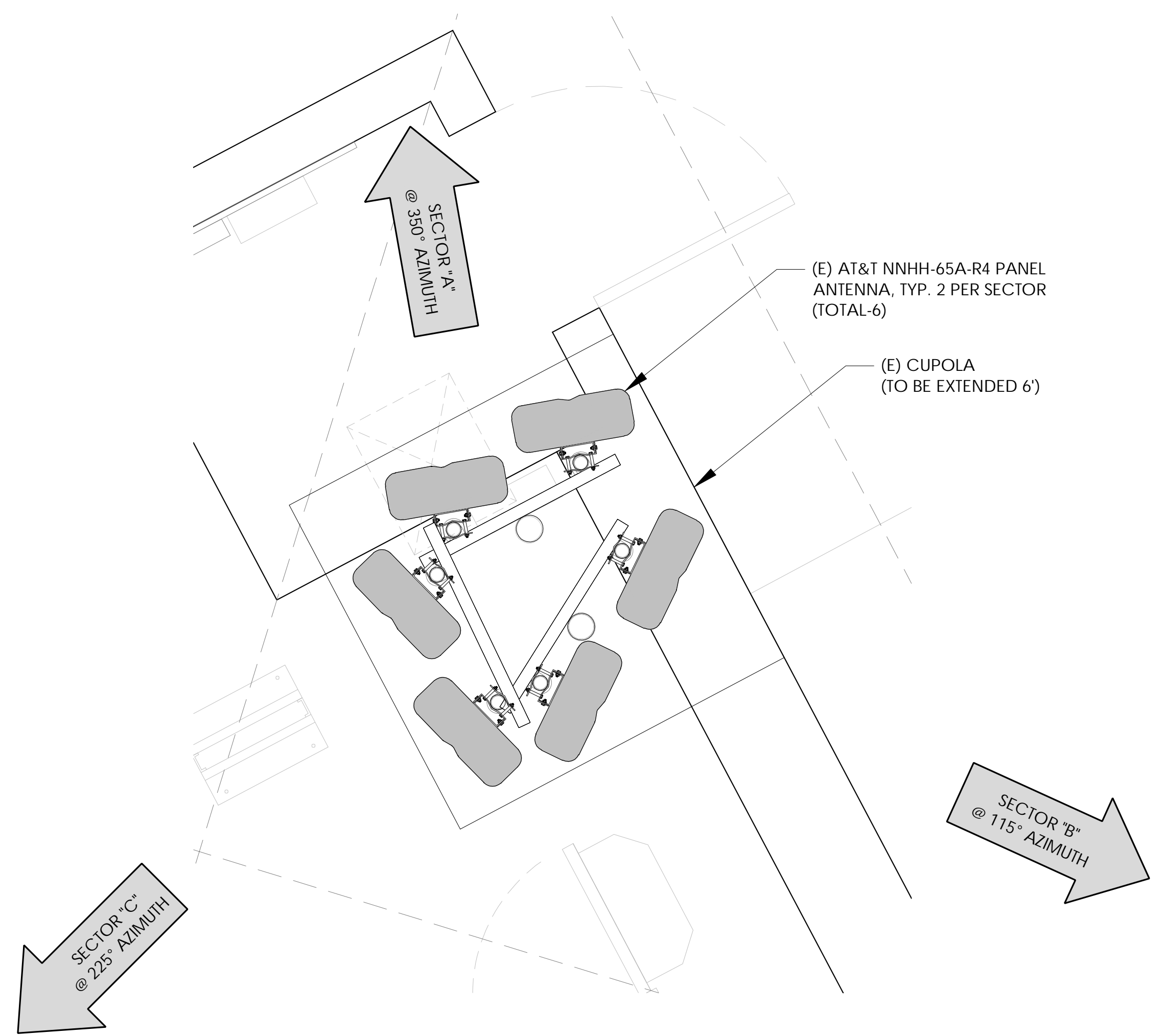
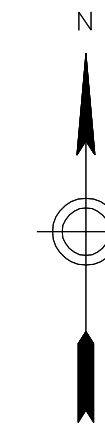
24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"



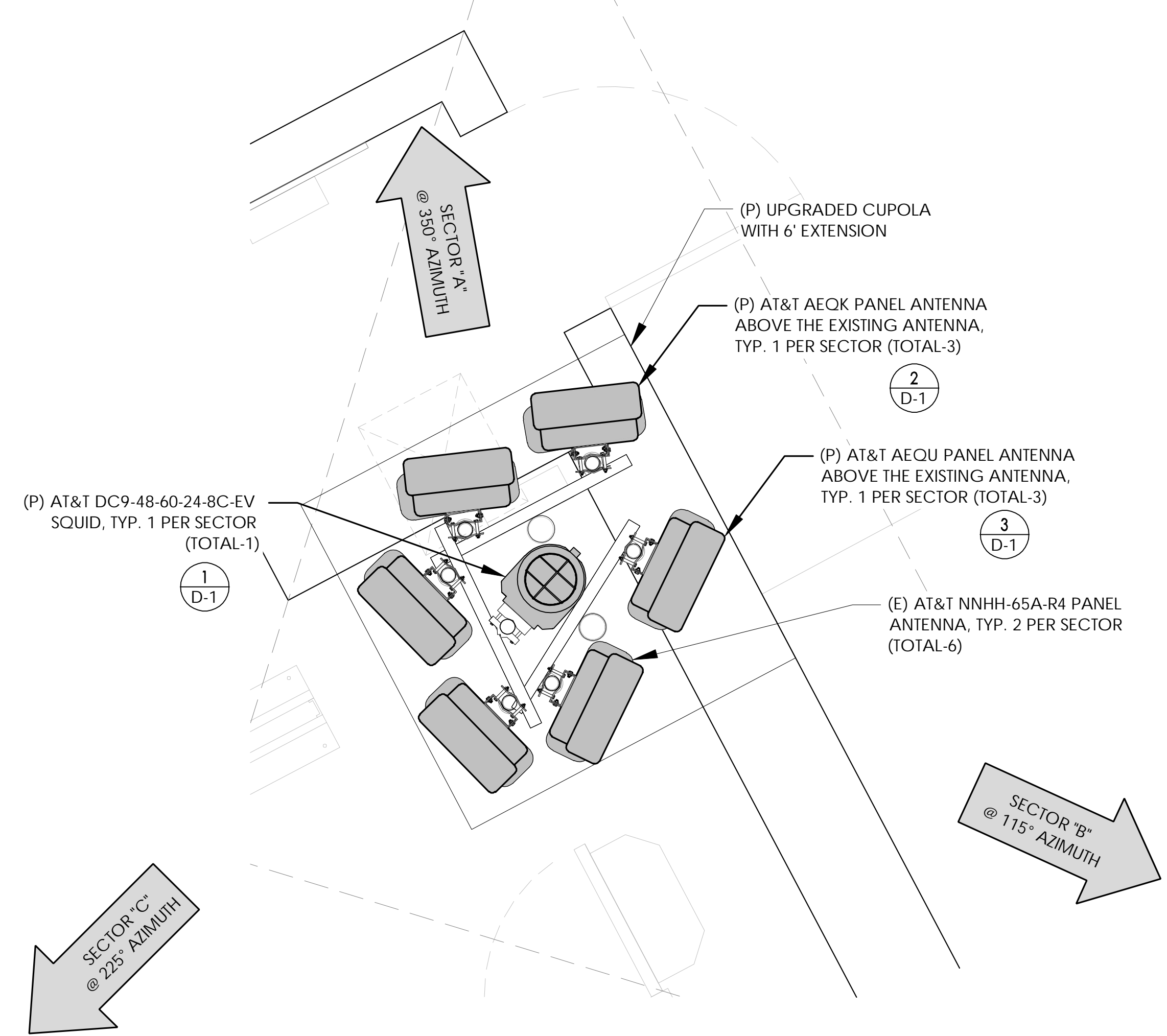
1 ENLARGED SITE PLAN



NOTE:
 1. AN ANTENNA MOUNT ANALYSIS MUST BE PERFORMED AND DETERMINED ADEQUATE FOR THE PROPOSED LOADING PRIOR TO INSTALLING ANY NEW EQUIPMENT ON THE TOWER.



AT 37' RAD CENTER



AT 37' AND 43.55' RAD CENTER

PREPARED FOR

 16331 NE 72ND AVE. STE. 2100
 PORTLAND, OR 97201

Vendor:

 23 MAUCHLY #110
 IRVINE, CA 92618
 J5 PROJECT ID: P-071612

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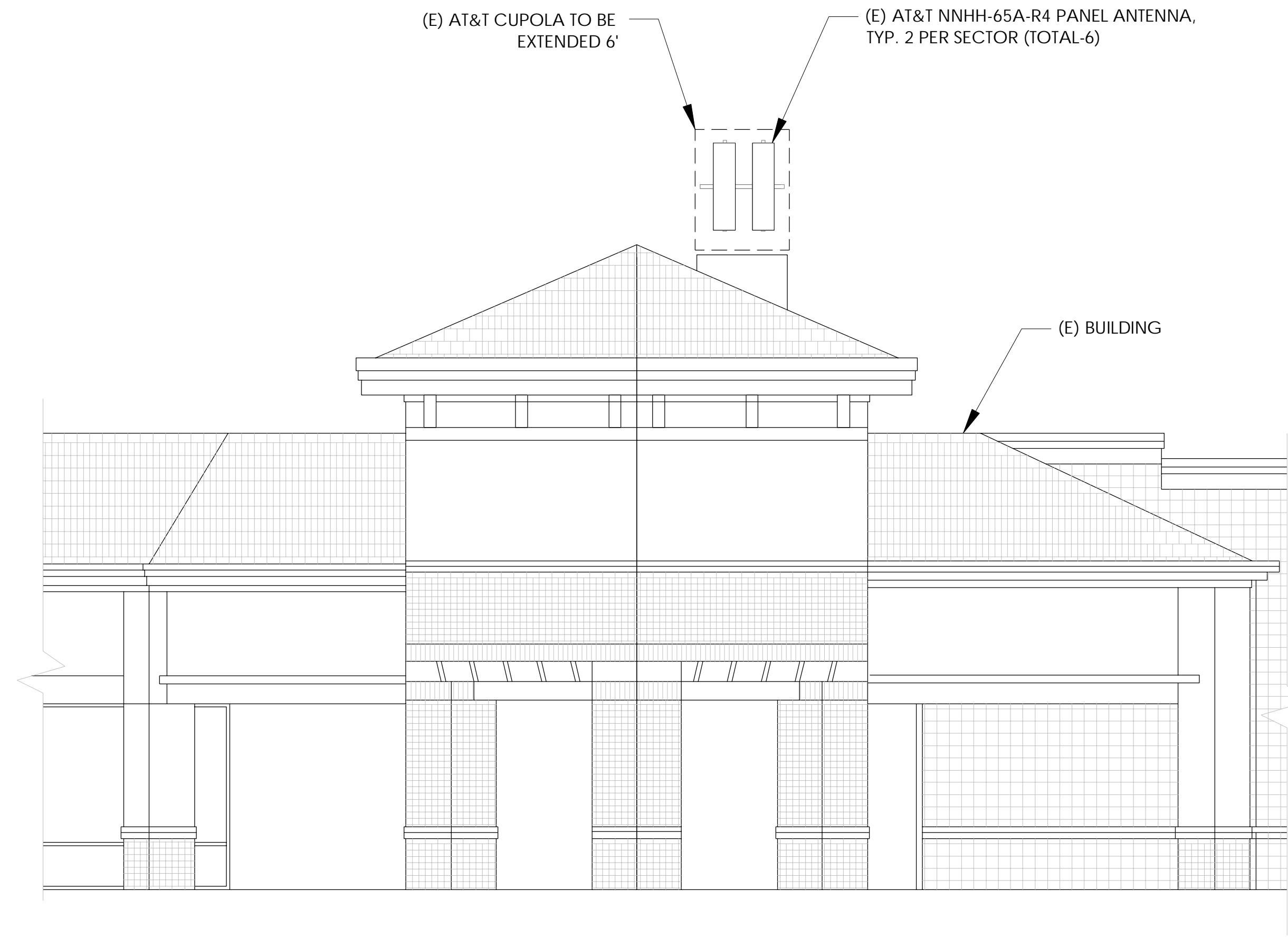
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 WEST LINN, OR 97068

Sheet Title:
EXISTING AND PROPOSED ANTENNA PLANS

Sheet Number:
A-3



T.O. (E) SHROUD
ELEV. 40'-0" (A.G.L.)

(E) 'AT&T' PANEL ANTENNAS RAD CENTER
ELEV. 37'-0" (A.G.L.)

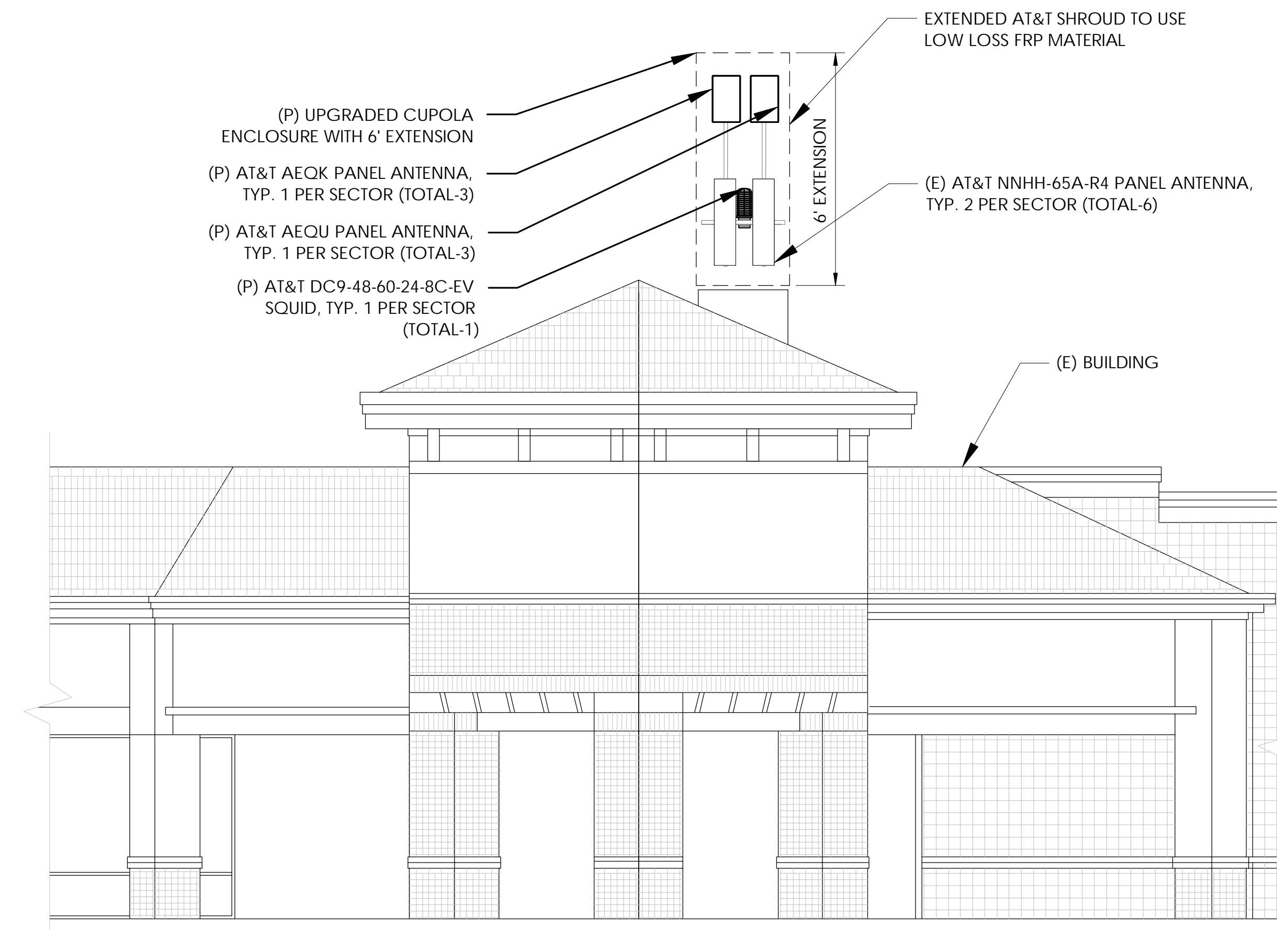
T.O. (E) ROOF
ELEV. 24'-0" (A.G.L.)

FINISHED GRADE
ELEV. 0'-0"

NOTE:
1. ALL (P) ANTENNAS AND EQUIPMENT MOUNTED TO THE (E) POLE SHALL BE PAINTED TO MATCH (E).
2. RRUS & SURGE ARRESTORS ARE NOT SHOWN FOR CLARITY.

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

1 EXISTING SOUTHWEST ELEVATION



T.O. (N) SHROUD
ELEV. 46'-0" (A.G.L.)

(N) 'AT&T' PANEL ANTENNAS RAD CENTER
ELEV. 43.55' (A.G.L.)

(E) 'AT&T' PANEL ANTENNAS RAD CENTER
ELEV. 37'-0" (A.G.L.)

T.O. (E) ROOF
ELEV. 24'-0" (A.G.L.)

FINISHED GRADE
ELEV. 0'-0"

NOTE:
1. ALL INFORMATION PERTAINING TO THIS EXISTING CUPOLA AND ALL ASSOCIATED COMPONENTS INCLUDING BUT NOT LIMITED TO ANTENNA MOUNTS, ANTENNAS, UPGRADES, AND EXTENSIONS ARE FOR DEPICTION PURPOSES ONLY. THIS SET OF CONSTRUCTION DRAWINGS DOES NOT CONSTITUTE A STRUCTURAL ANALYSIS FOR THE AFOREMENTIONED STRUCTURE.

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

2 PROPOSED SOUTHWEST ELEVATION

PREPARED FOR

16331 NE 72ND AVE. STE. 2100
PORTLAND, OR 97201

Vendor:

23 MAUCHLY #110
IRVINE, CA 92618
JS PROJECT ID: P-071612

AT&T Site ID:

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Licenser:

EXPIRES: 12/31/23

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WEST LINN, OR 97068

Sheet Title:

SOUTHWEST ELEVATIONS

Sheet Number:

A-4

		RFDS VERSION: 1		(E) ANTENNA SCHEDULE					
		DATE UPDATED: 12/16/2021, 4:39:21 PM							
	POS	AZIMUTH	RAD CENTER	MECHANICAL DOWNTILT	ANTENNA MAKE	ANTENNA MODEL	RRH MODEL	SURGE SUPPRESSOR	FEEDER TYPE
SECTOR "A"	A1	350°	37-0"	0	COMMSCOPE	NNHH-65A-R4			(1) DUAL MODE FIBER JUMPER (3) DC JUMPER
	A2	350°	37-0"	0	COMMSCOPE	NNHH-65A-R4			
SECTOR "B"	B1	115°	37-0"	0	COMMSCOPE	NNHH-65A-R4			
	B2	115°	37-0"	0	COMMSCOPE	NNHH-65A-R4			
SECTOR "C"	C1	225°	37-0"	0	COMMSCOPE	NNHH-65A-R4			
	C2	225°	37-0"	0	COMMSCOPE	NNHH-65A-R4			

NOTE:
(E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.

NOTES TO CONTRACTOR:
1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
2. CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
3. CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.

PREPARED FOR



16331 NE 72ND AVE. STE. 2100
PORTLAND, OR 97201

Vendor:



23 MAUCHLY #110
IRVINE, CA 92618
J5 PROJECT ID: P-071612

AT&T Site ID:

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Licenser:



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WEST LINN, OR 97068

Sheet Title:
EXISTING AND PROPOSED ANTENNA SCHEDULES

Sheet Number:
A-5

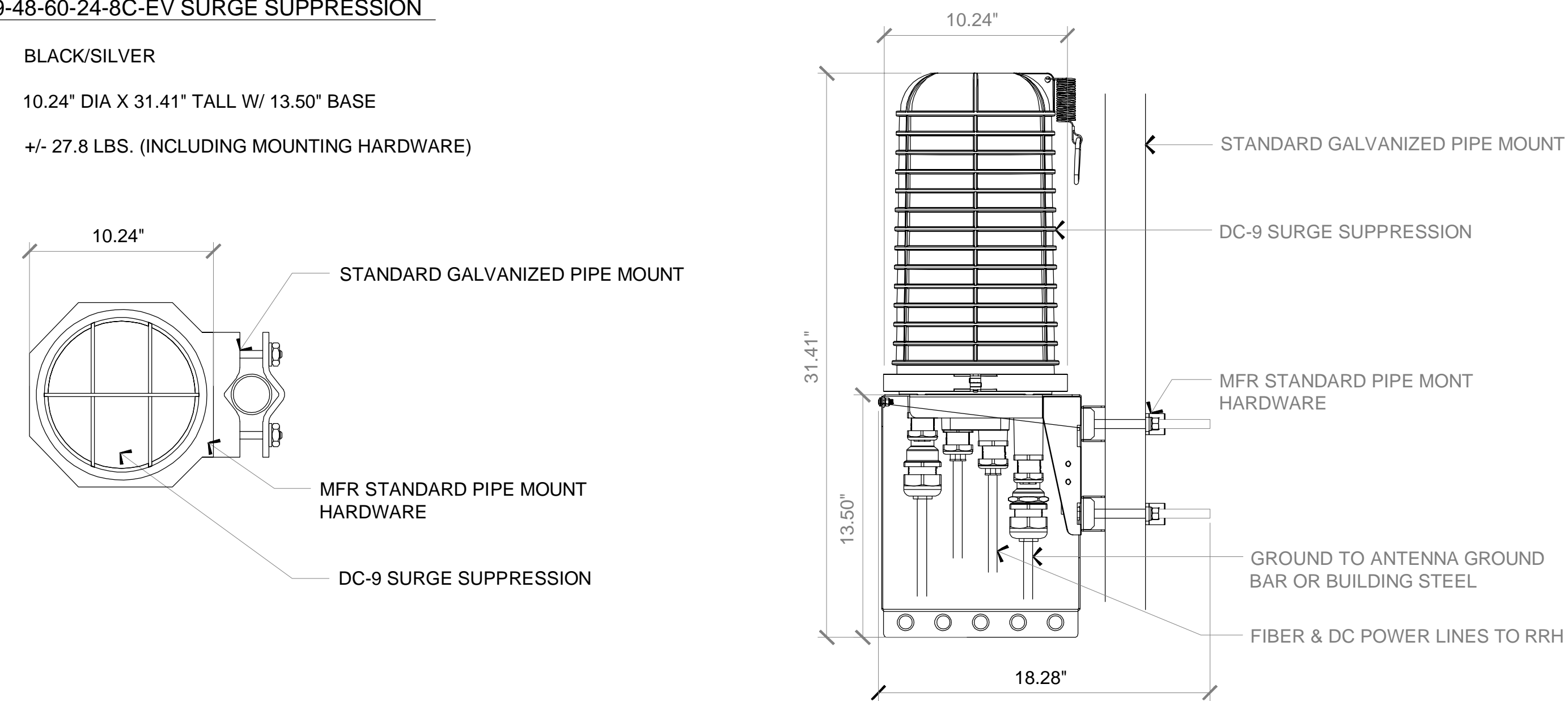
1 EXISTING ANTENNA SCHEDULE
N.T.S.

		RFDS VERSION: 1		(P) ANTENNA SCHEDULE					
		DATE UPDATED: 12/16/2021, 4:39:21 PM							
	POS	AZIMUTH	RAD CENTER	MECHANICAL DOWNTILT	ANTENNA MAKE	ANTENNA MODEL	RRH MODEL	SURGE SUPPRESSOR	FEEDER TYPE
SECTOR "A"	A1	350°	37-0"	0	COMMSCOPE	NNHH-65A-R4			(1) DUAL MODE FIBER JUMPER (1) RFFT-24SM-001-50M (3) DC JUMPER (3) PWRT-208-S
	A1	350°	43.55'	0	NOKIA	AEQK			
	A2	350°	37-0"	0	COMMSCOPE	NNHH-65A-R4			
	A2	350°	43.55'	0	NOKIA	AEQU			
SECTOR "B"	B1	115°	37-0"	0	COMMSCOPE	NNHH-65A-R4		(1) DC9-48-60-24-8C-EV	
	B1	115°	43.55'	0	NOKIA	AEQK			
	B2	115°	37-0"	0	COMMSCOPE	NNHH-65A-R4			
	B2	115°	43.55'	0	NOKIA	AEQU			
SECTOR "C"	C1	225°	37-0"	0	COMMSCOPE	NNHH-65A-R4			
	C1	225°	43.55'	0	NOKIA	AEQK			
	C2	225°	37-0"	0	COMMSCOPE	NNHH-65A-R4			
	C2	225°	43.55'	0	NOKIA	AEQU			

1 PROPOSED ANTENNA SCHEDULE
N.T.S.

RAYCAP DC9-48-60-24-8C-EV SURGE SUPPRESSION

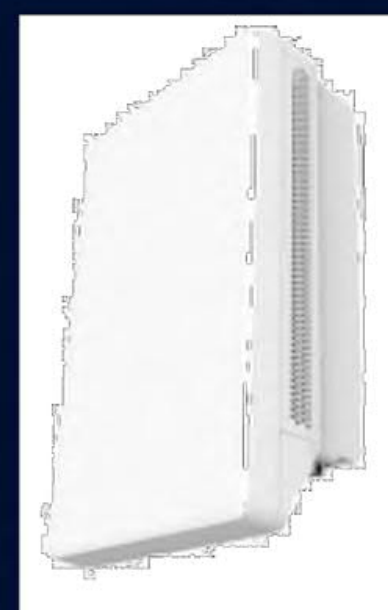
COLOR: BLACK/SILVER
 DIMENSIONS: 10.24" DIA X 31.41" TALL W/ 13.50" BASE
 WEIGHT:A: +/- 27.8 LBS. (INCLUDING MOUNTING HARDWARE)



1 DC SURGE SUPPRESSION
N.T.S.

AirScale High Power MAA benefits

- 5G Adaptive Antenna System for optimized capacity and coverage
- Digital beamforming for multi-user MIMO
- Connectivity with AirScale BBU (via eCPRI)
- Beamforming capable 64T64R with total 200W output power
- 32TRX + 32TRX split mode support

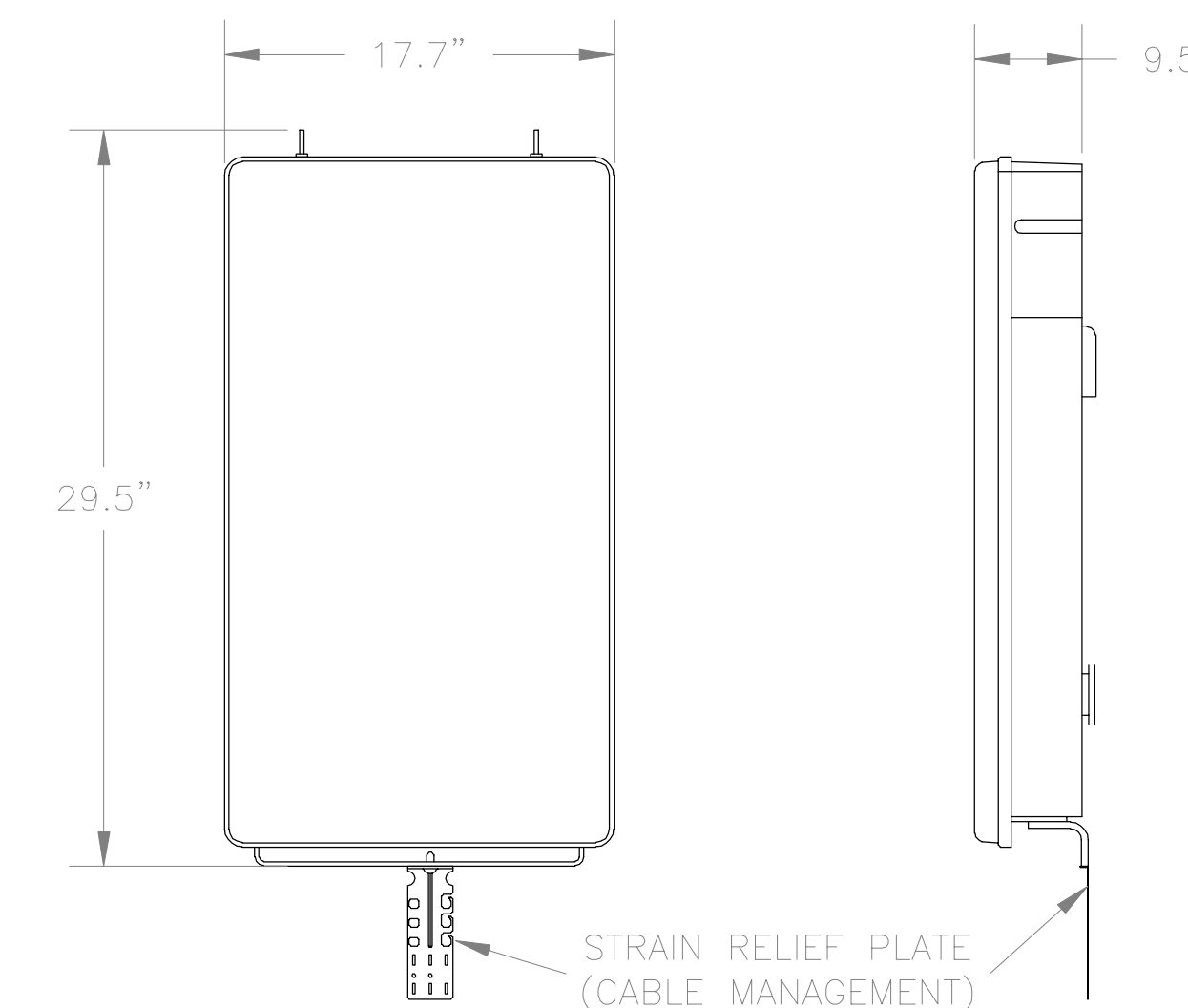
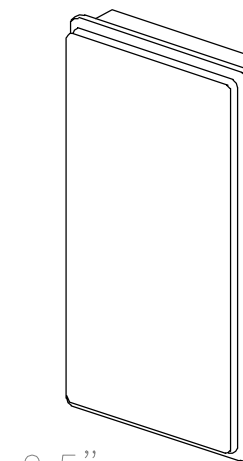


AEQK 475589A NOKIA

AEQK AirScale MAA 64T64R 192AE n77 200W
 Technical datasheet

Product Specifications	
Standard	3GPP/FCC NR compliant, TDD
Band / Frequency range	3700~3980MHz
Supported RAT	5G
Max. supported modulation	256QAM
Number of TX/RX paths	64T / 64R
MIMO streams	16
Instantaneous bandwidth IBW	200MHz
Occupied bandwidth OBW	100MHz+100MHz for 32TRX + 32TRX split mode
Total average EIRP	77dBm
Max. output power per TRX	3.125 W / TRX (200 W total) - SW settable up to 13 dB down
Dimensions / Volume	750 x 450 x 240 mm (H x W x D)
Weight	45kg w/o bracket
Supply voltage / Connector type	DC -40.5 V... -57V / 2 pole connector
Power consumption	727 W (75% DL duty cycle, ETSI Average)
Optical ports	2xSFP28, 10/25GE eCPRI
Other interfaces / Connector type	LMI / HDMI, RF monitor port / SMA, Control AISG, External Alarms / MDR26, status LEDs
Operational temperature range	-40degC to +55C
Cooling	Natural convection cooling
Installation options / mechanical tilt	Pole, wall, with vertical adjustment of ±15° (thermally limited)
Ingress / Surge protection	IP65/Class II 20KA

MANUFACTURER:	NOKIA
MODEL:	AEQU
DIMENSIONS:	29.5" x 17.7" x 9.5"
WEIGHT:	99.2 LBS



3 NOKIA AEQU ANTENNA SPECIFICATIONS
N.T.S.

2 NOKIA AEQK ANTENNA SPECIFICATIONS
N.T.S.

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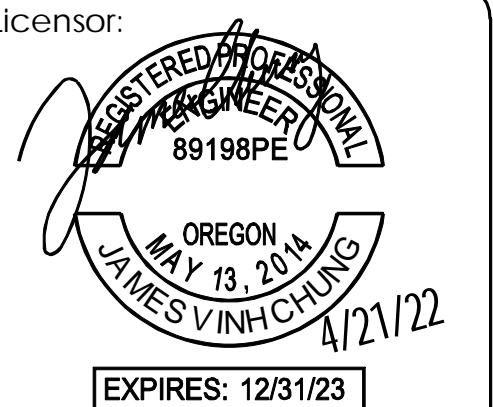
J5 PROJECT ID: P-071612

AT&T Site ID:

PX30

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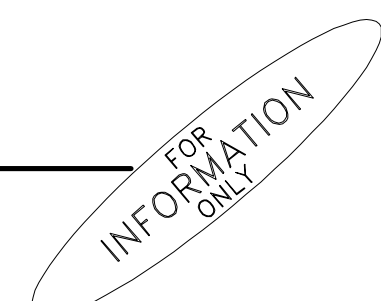
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Sheet Title:

DETAILS

Sheet Number:

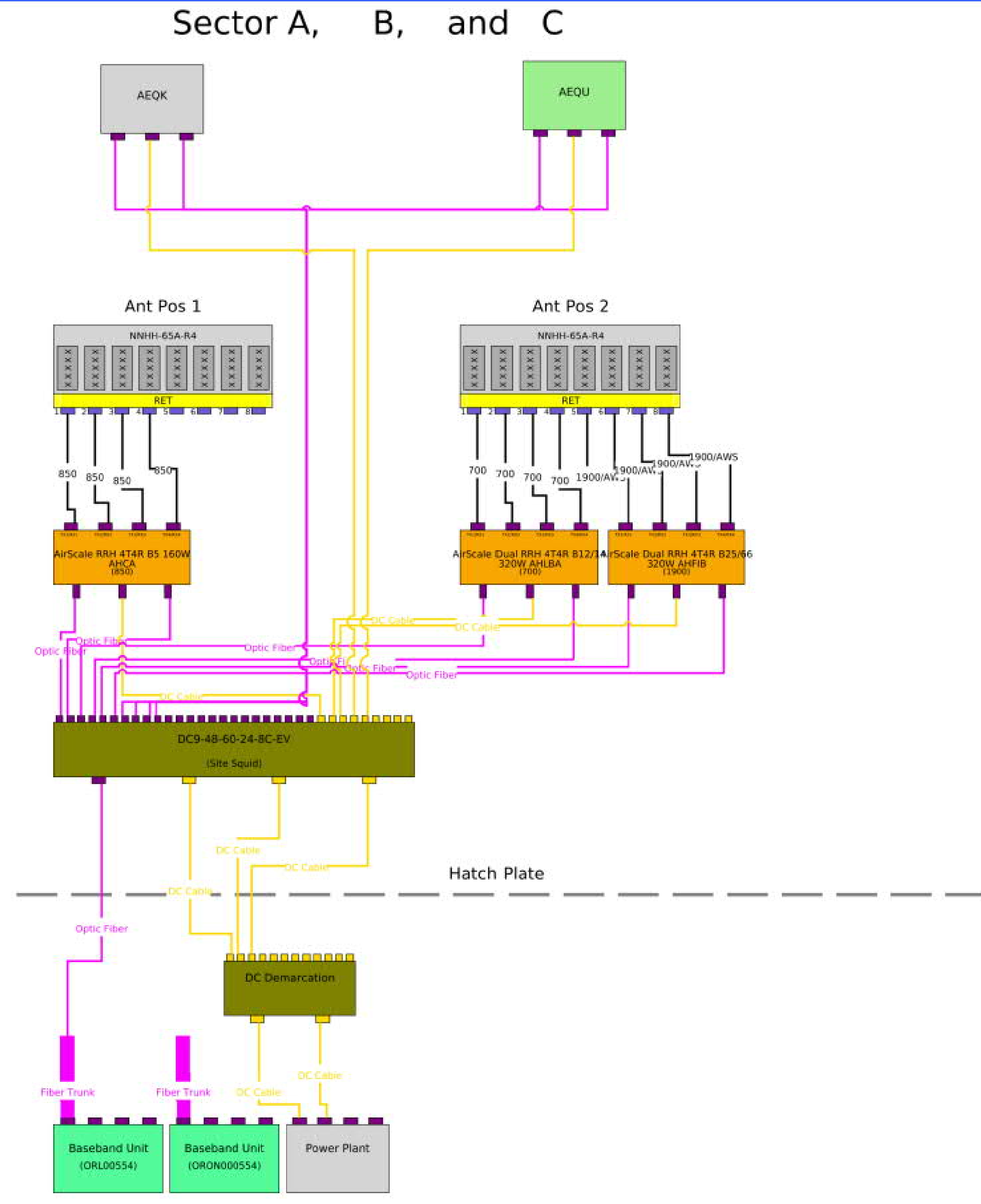
D-1



NOTES TO CONTRACTOR:
 1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFD) PRIOR TO CONSTRUCTION.

Diagram - Sector A
 Atoll Site Name - PX30 CBand
 Comments:

Diagram File Name - WAT4335758_SectorABandC.png
 Location Name - CASCADE SUMMIT
 Market - OREGON
 Market Cluster - SEATTLE/OREGON/NO. ID



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Sheet Title:
 PLUMBING DIAGRAM

Sheet Number:
 RF-1

GROUNDING NOTES:

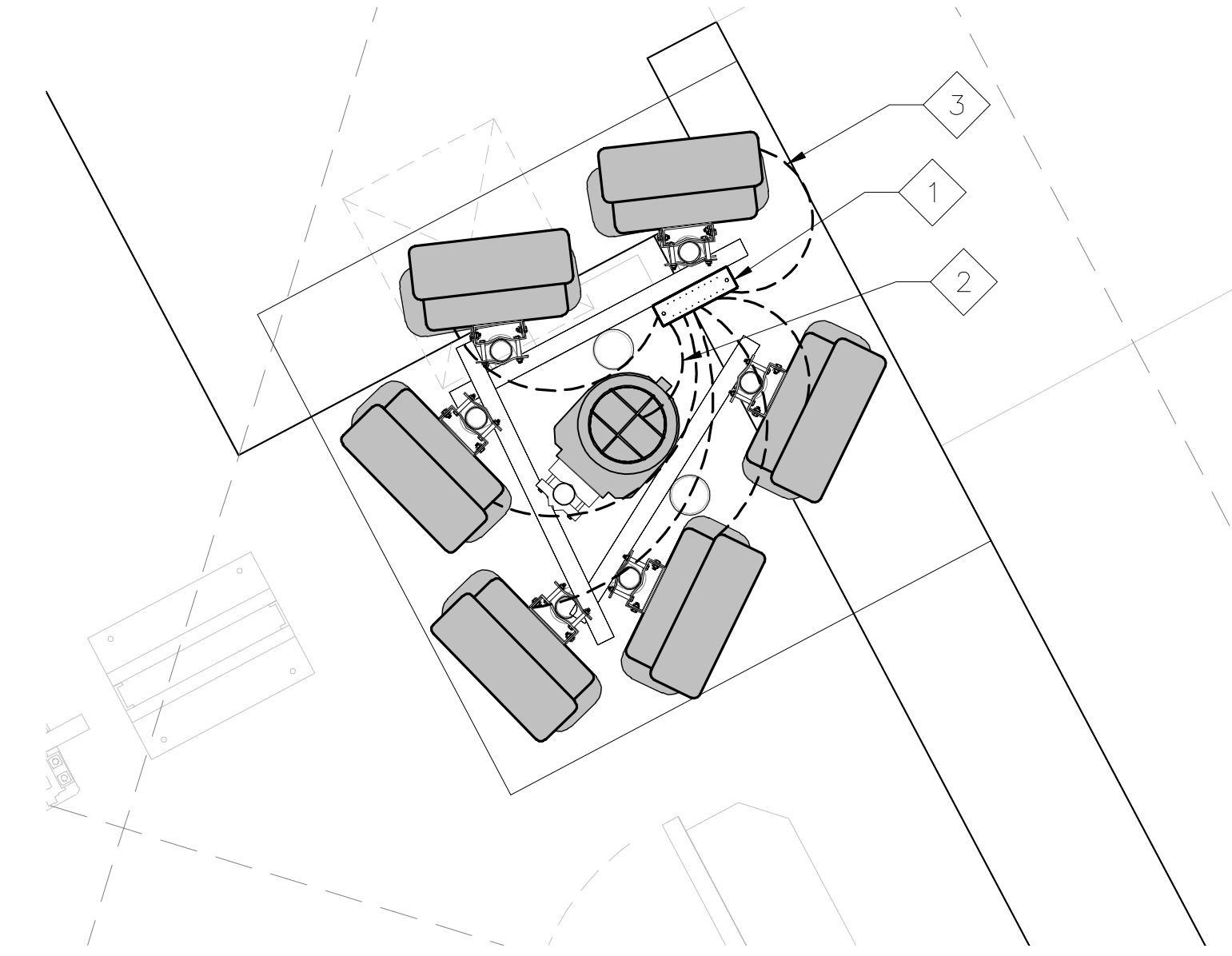
1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
 - A) EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
13. GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
17. POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
18. NO LB'S ALLOWED ON GROUNDING.

19. PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
20. ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
21. IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
22. EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES. LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTIOXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
23. THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
24. ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
25. PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
26. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
27. GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
28. ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

KEY NOTES:

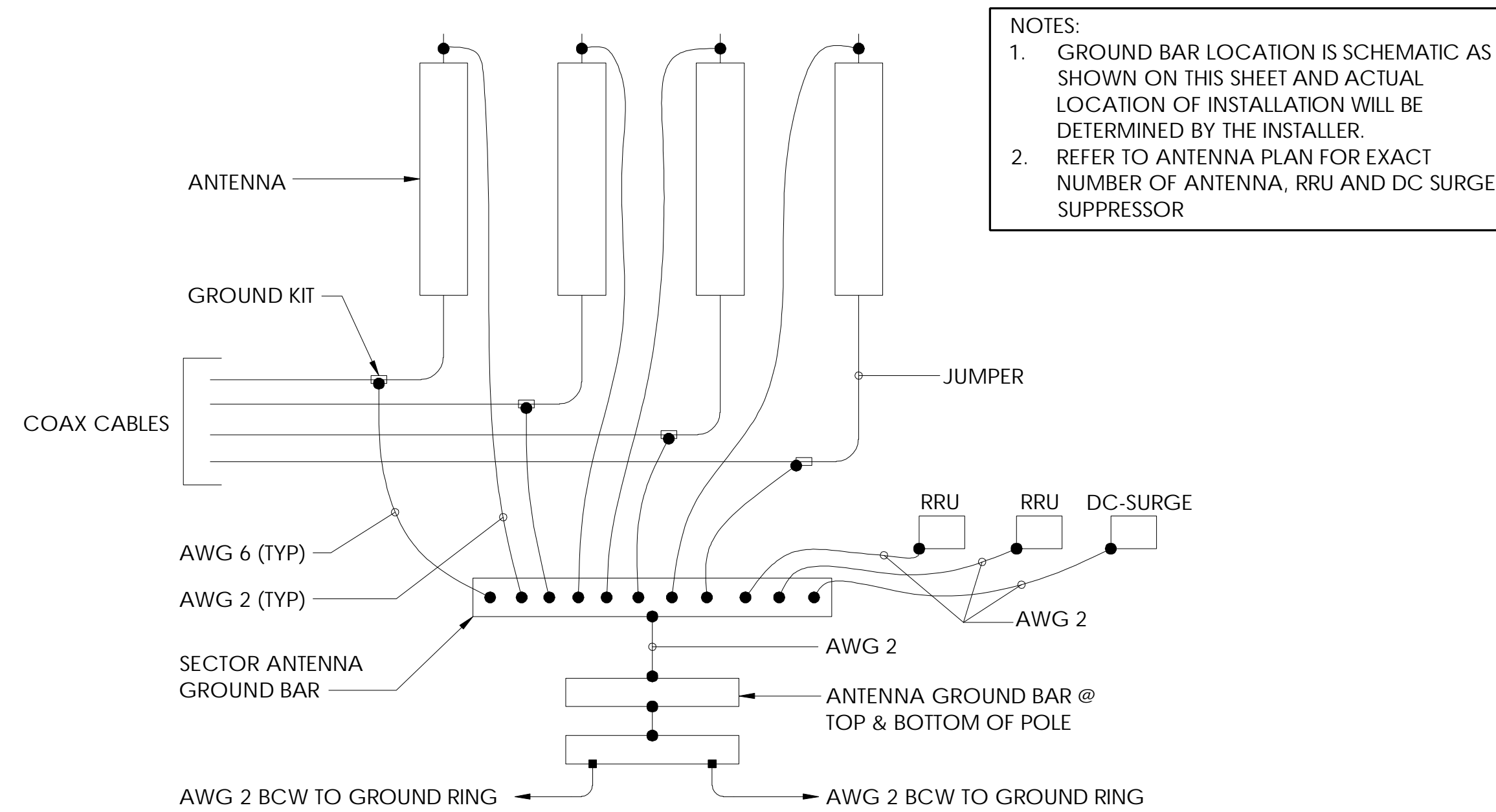
- 1 (E) ANTENNA GROUND BAR TO BE VERIFIED @ FIELD
- 2 AWG 2 INSULATED COPPER GROUND WIRE FROM (N) RRUS AND DC6 TO (E) ANTENNA GROUND BAR
- 3 AWG 6 INSULATED COPPER GROUND WIRE FROM NEW ANTENNA GROUND KIT TO (E) ANTENNA GROUND BAR

- NOTES:
1. REFER TO TYP. ANTENNA GROUNDING DIAGRAM
 2. (E) GROUND WIRES ARE NOT SHOWN FOR CLARTY



2 ANTENNA GROUNDING PLAN
N.T.S

4 GROUNDING NOTES
N.T.S.



- NOTES:
1. GROUND BAR LOCATION IS SCHEMATIC AS SHOWN ON THIS SHEET AND ACTUAL LOCATION OF INSTALLATION WILL BE DETERMINED BY THE INSTALLER.
 2. REFER TO ANTENNA PLAN FOR EXACT NUMBER OF ANTENNA, RRU AND DC SURGE SUPPRESSOR

3 TYP. ANTENNA GROUNDING DIAGRAM
N.T.S.

1 NOT USED
N.T.S

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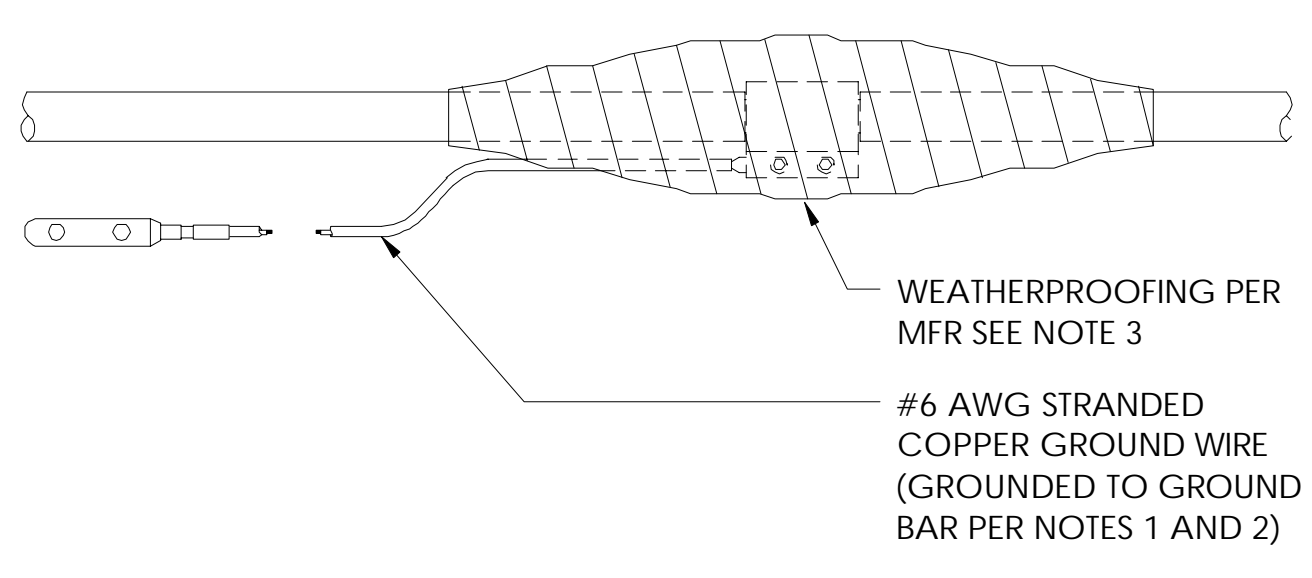
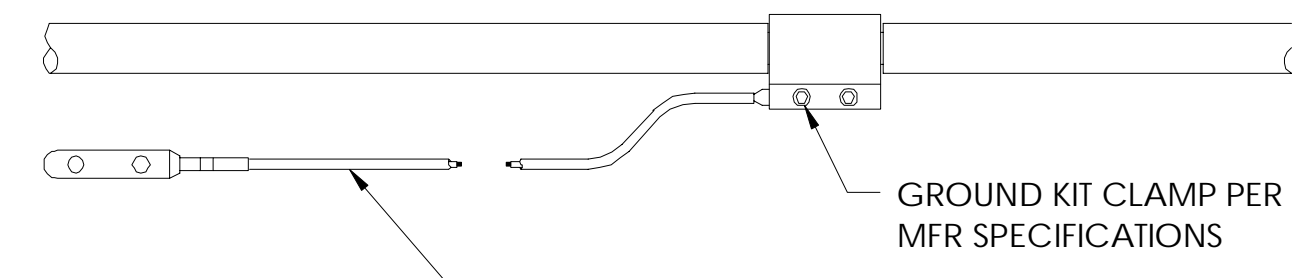
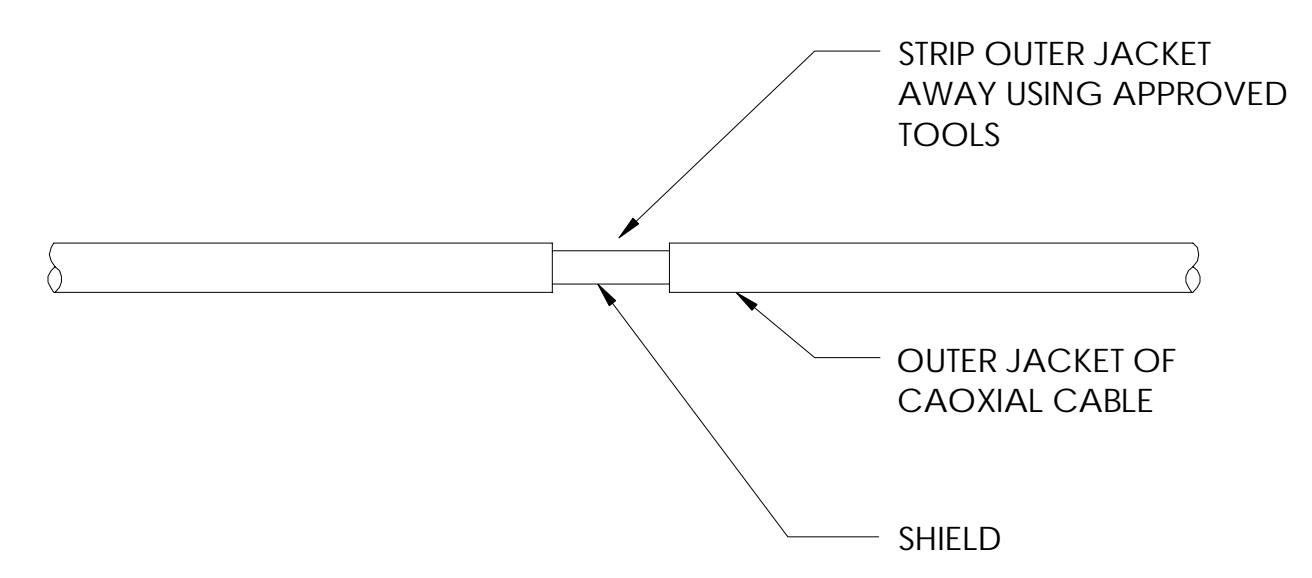
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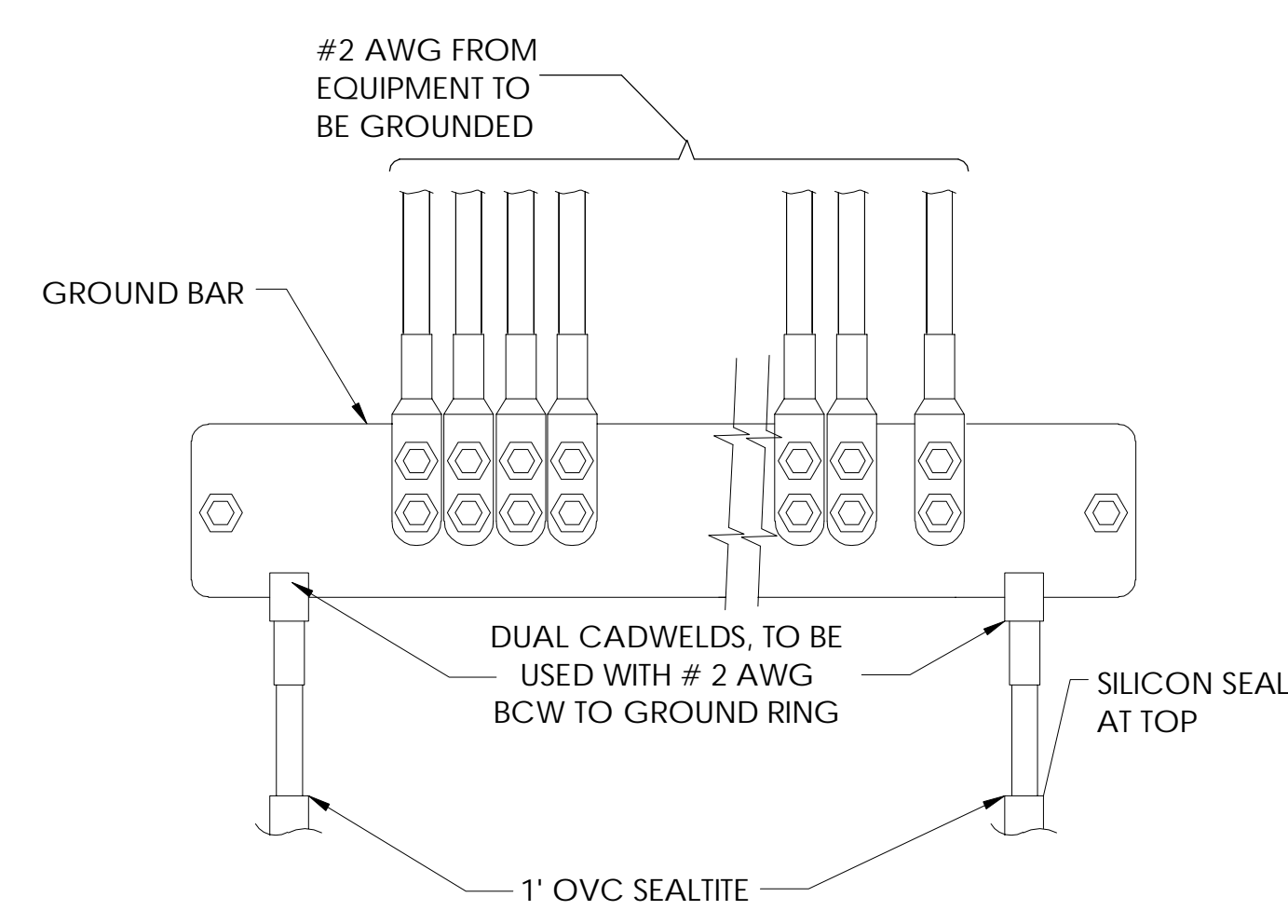
Sheet Number:

G-1

- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MFR
 - WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MFR

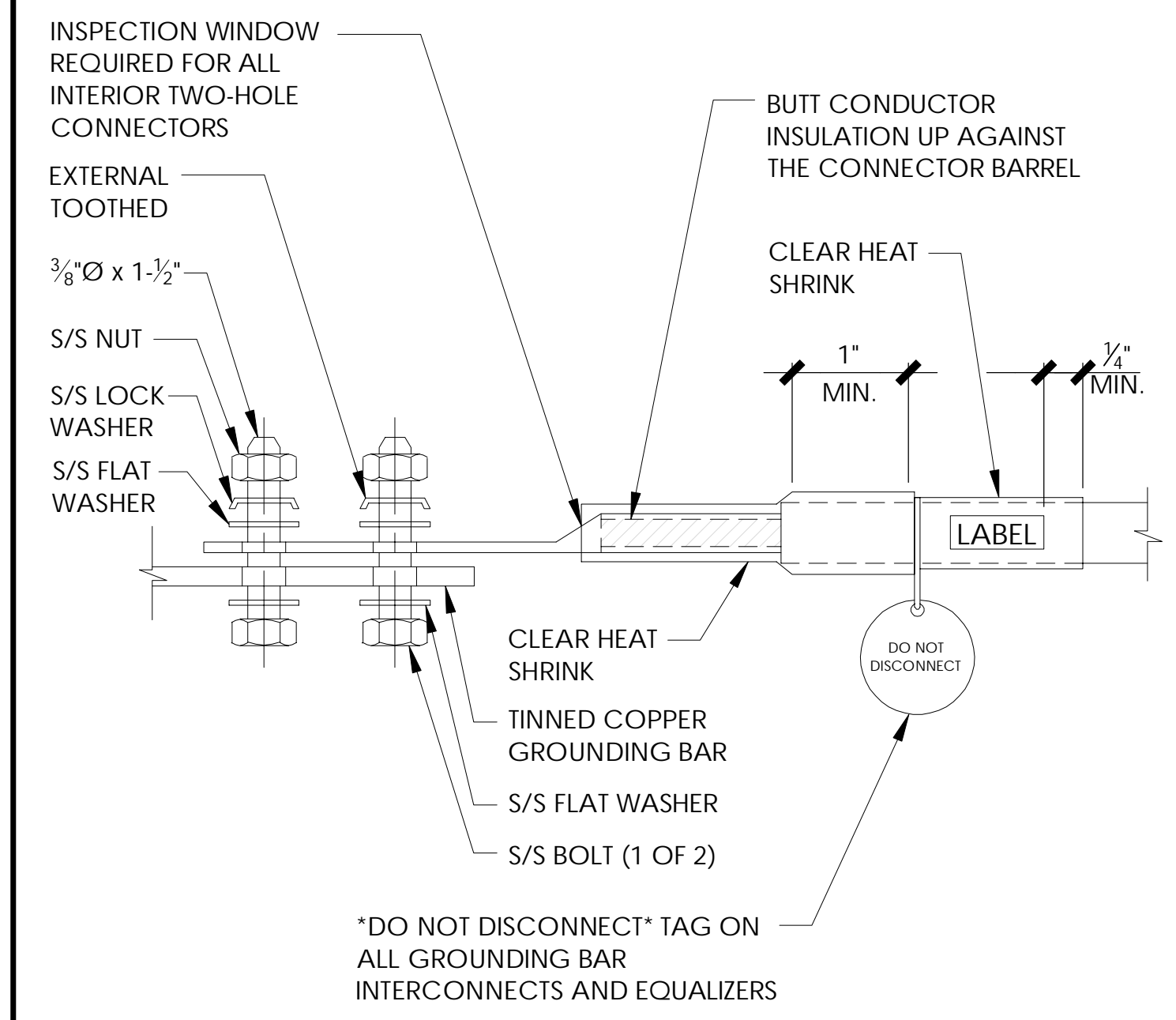


7 GROUND KIT N.T.S.



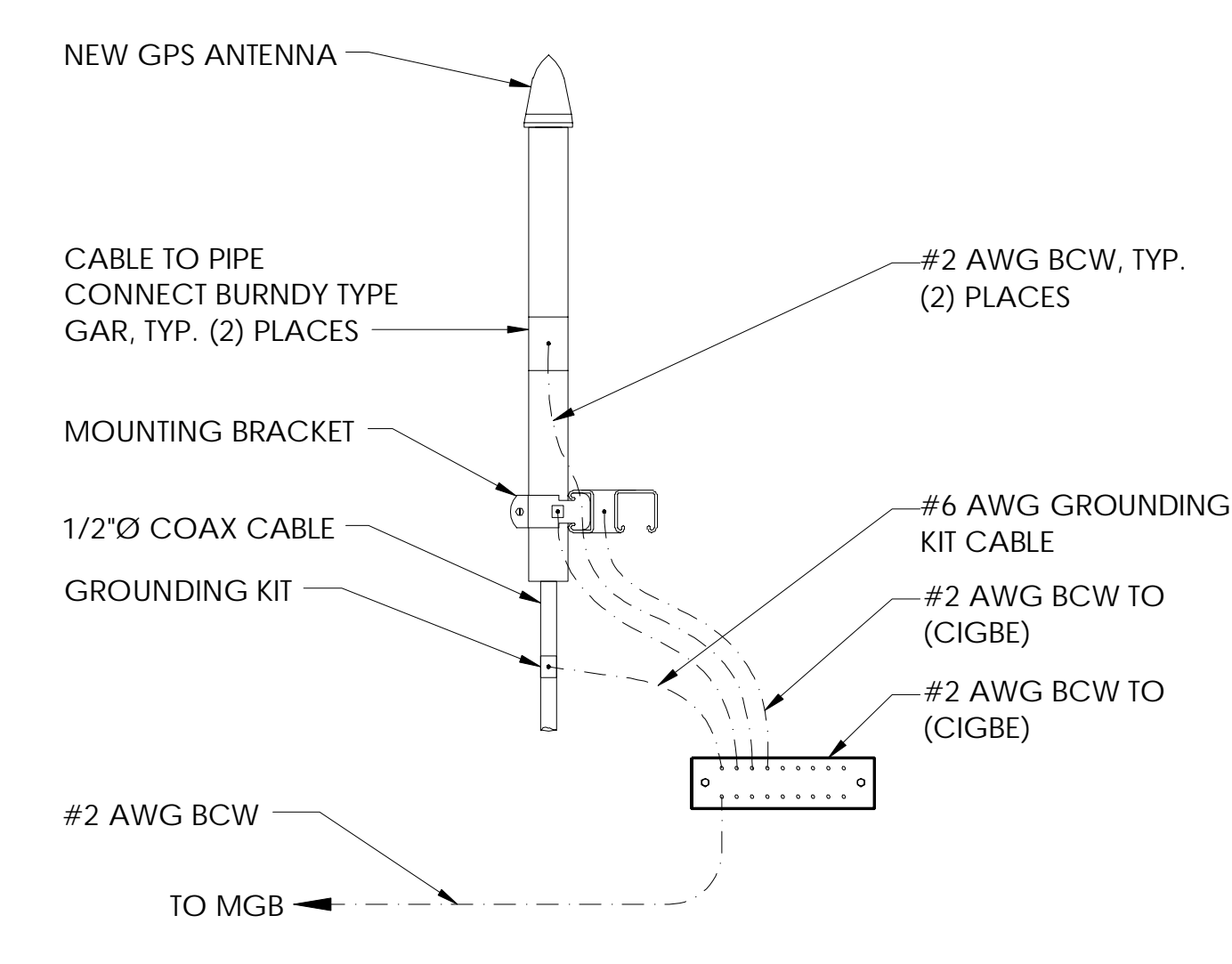
- NOTE:
- CONTRACTOR TO UTILIZE KOPR-SHIELD (THANS & BETTS) ON ALL LUG CONNECTIONS OR APPROVED EQUAL
 - ALL LUGS TO BE DUAL HOLE LONG BARREL AND CRIMPED TWICE WITH MFR'S RECOMMENDED TOOL

5 GROUND BAR CONNECTION N.T.S.

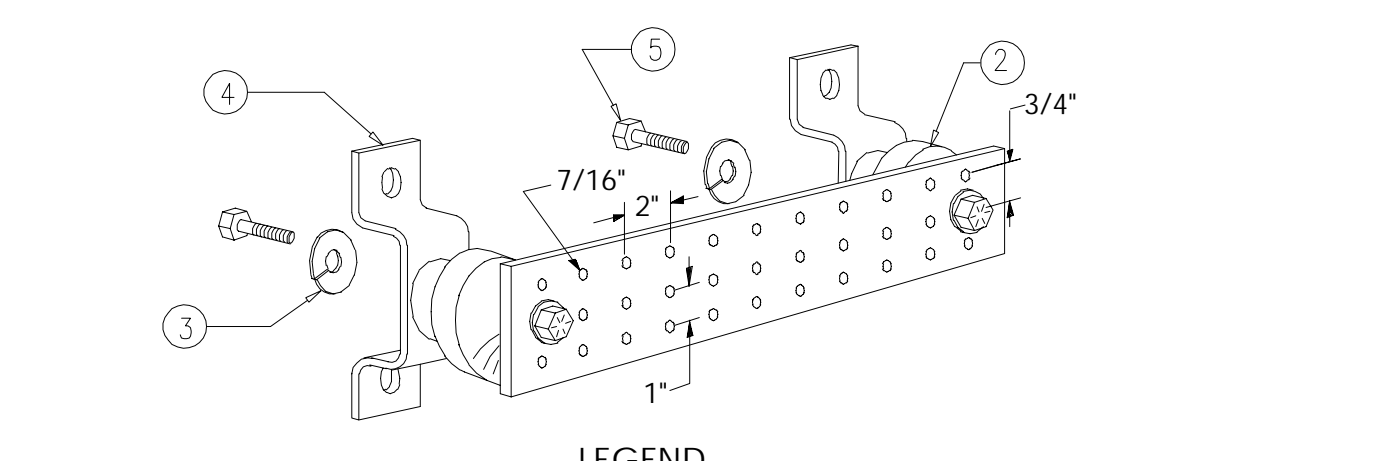


3 LUG TO BUSS BAR DETAIL N.T.S.

10 NOT USED N.T.S.



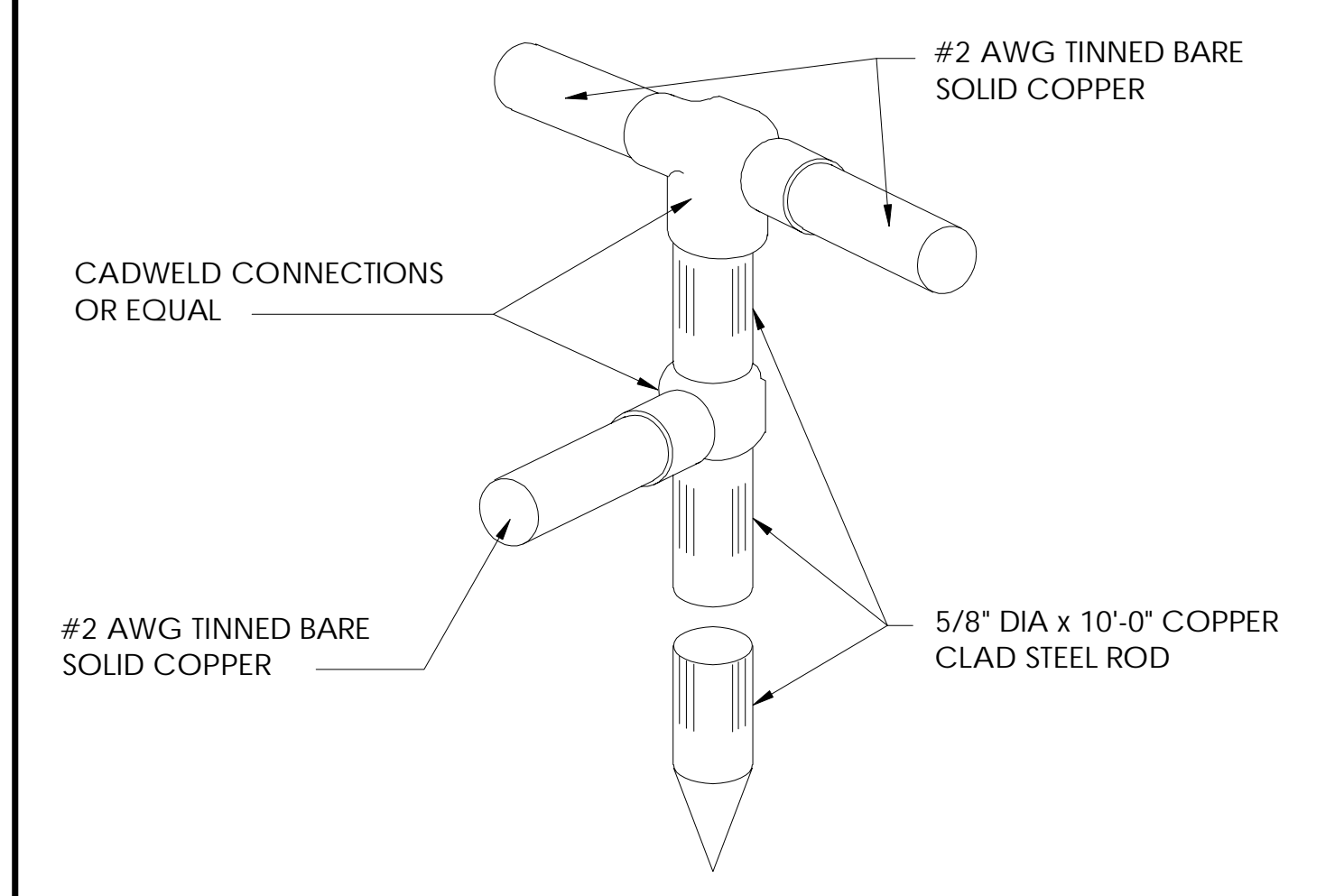
9 GPS ANTENNA GROUNDING N.T.S.



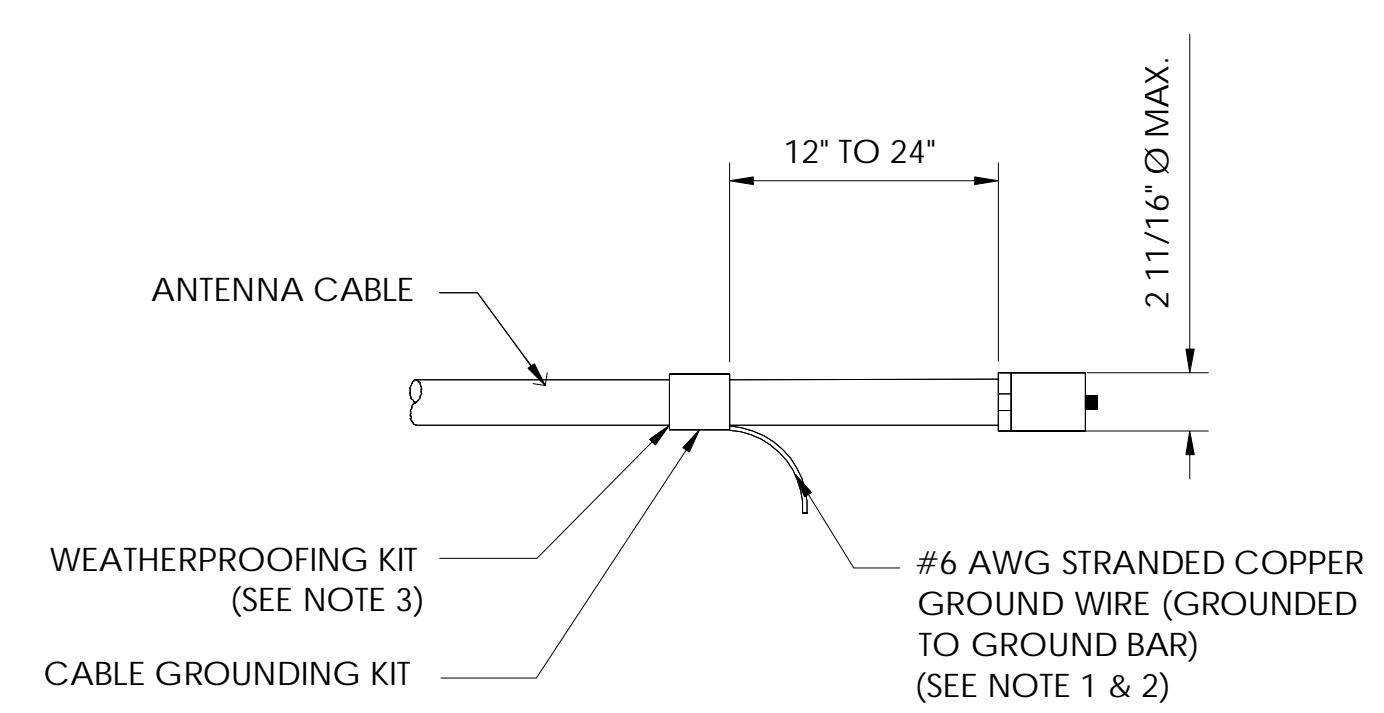
- LEGEND
- COPPER GROUND BAR, "X 1/4" X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
 - 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL
 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL
 - 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL
 - INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

4 GROUND BAR DETAIL N.T.S.

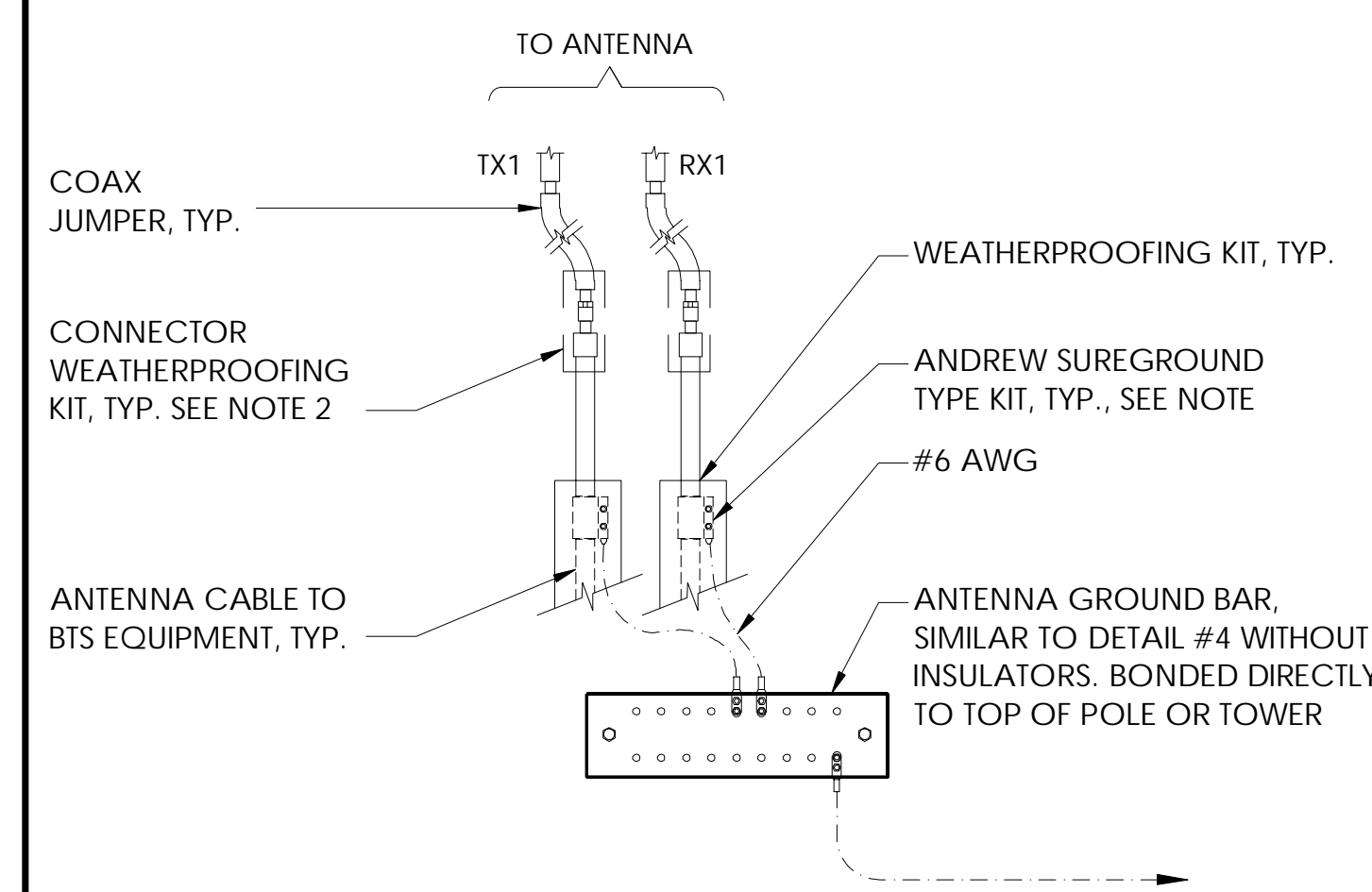


2 GROUND ROD DETAIL N.T.S.



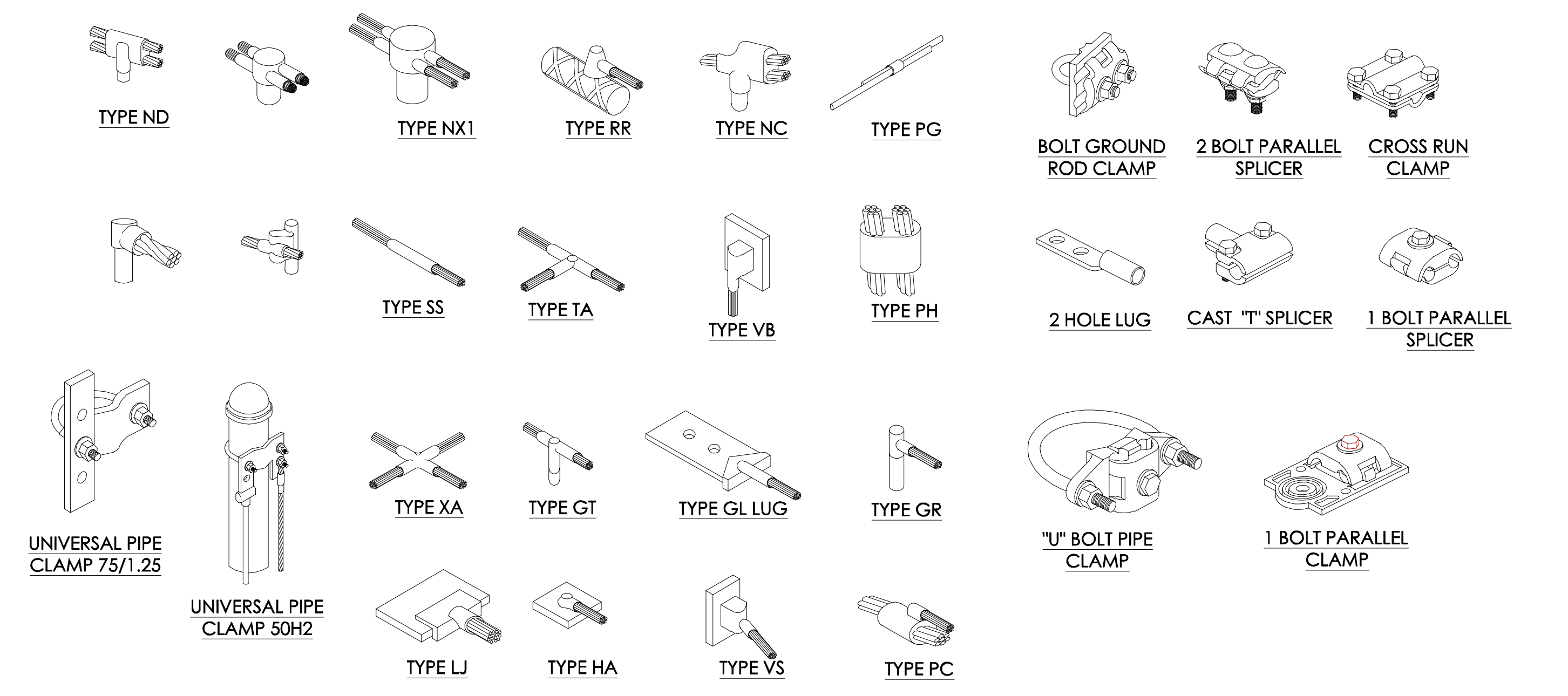
- NOTE:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

8 CONNECTION OF GROUND KIT TO ANTENNA CABLE N.T.S.



- NOTE:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 - WEATHER PROOFING SHALL BE ANDREW TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED

6 GROUND CONNECTION TO GROUND BAR N.T.S.



1 TYPICAL MECHANICAL CONNECTIONS N.T.S.

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GROUNDING DETAILS

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