



October 15th, 2020
Salt Lake City Planning Division
451 State St
Salt Lake City, UT 84111

Re: AT&T proposal to construct a new unmanned communication site with an 80' monopole

To Whom It May Concern

AT&T is requesting approval of a conditional use permit for a new unmanned communication site 1550 South 5600 West in Salt Lake City. This property is zoned Industrial and is used for long-haul trucking storage. The property to the West and North of the site is industrial. The property to the East across 1300 West is commercial as is the property to the South. These property owners were not contacted pertaining to this proposal for an unmanned communication site.

This new site will consist of an 80' monopole with 12 antennas, 18 remote radio heads and a microwave dish. This site will be constructed within a 48' x 50' site area enclosed with a six-foot chain link fence and three strands of barbed wire. All power lines will be brought into the site below grade and tower climbing pegs will be removed at least 20' above grade. There will also be a walk-in equipment cabinet that is approximately 8' x 8' that will be located within the fenced site area. An emergency back-up 30kw diesel generator will also be installed.

This site is located in an industrial area in the western portion of Salt Lake. The proposal fits the zoning code under Section 212A.40.090: Antenna Regulations, part E. Wireless Telecommunications Facilities, 2.d: Monopole with Antennas and Antenna Support Structure Greater Than Two Feet in Width.

The proposal is to install twelve (12) eight-foot antennas with a tip height of 79' on this 80' tower. The horizontal width will not exceed the 13' distance as stated in the code. This site has no residential zone within 300' of the property. The tower is located at least 130' from the North property line and 35' from the West or rear property line.

This unmanned communication site will be operating 24 hours per day, 7 days per week. There will be no employees on site however, a site technician will visit the site once every few months. There is no need for additional parking places as this is an unmanned communication site.

Brian Sieck
Real Estate Specialist
Smartlink
c. 505.410.1893

PROJECT TEAM

APPLICANT: COMPANY: ADDRESS: CITY, STATE, ZIP:	AT&T 161 INVERNESS DRIVE W, 2ND FLOOR ENGLEWOOD, CO 80112
SITE ACQUISITION/ZONING: COMPANY: ADDRESS: CITY, STATE, ZIP: CONTACT: PHONE: EMAIL:	SMARTLINK LLC 1997 ANNAPOLIS EXCHANGE PARKWAY, SUITE 200 ANNAPOLIS, MD 21401 DOUG KOFFORD (425) 306-7886 DOUGLAS.KOFFORD@SMARTLINKLLC.COM
ARCHITECT & ENGINEER: COMPANY: ADDRESS: CITY, STATE, ZIP: CONTACT: PHONE: EMAIL:	TRYLON TSF 1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TX 75038 KATYA SERAVALLE 1-855-669-5421 KATYA.SERAVALLE@TRYLON.COM

GENERAL NOTES

DO NOT SCALE DRAWINGS
CONTRACTOR 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 BE RESPONSIBLE FOR SAME.

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, PORTABLE WATER, OR TRASH DISPOSAL IS REQUIRED, NO COMMERCIAL SIGNAGE AND NO LANDSCAPING IS PROPOSED

PROJECT INFORMATION

SITE ADDRESS:	1550 SOUTH 5600 WEST, SALT LAKE CITY, UT 84104
PARCEL NUMBER (APN):	14142260010000
PARCEL OWNER:	LANDMARK WEST LLC,
STRUCTURE TYPE:	80'-0" MONOPOLE
SITE TYPE:	NEW SITE BUILD
TOWER OWNER:	AT&T 161 INVERNESS DRIVE W, 2 ND FLOOR ENGLEWOOD, CO 80112
TOWER SITE ID:	UTL01221
LATITUDE (NAD 83):	40.73923139' / 40' 44' 21.233" N
LONGITUDE (NAD 83):	-112.0275458' / 112' 01' 39.2" W
GROUND ELEVATION:	4227'± (AMSL)
OCCUPANCY GROUP:	UNMANNED
TYPE OF CONSTRUCTION:	II-B
COUNTY:	SALT LAKE COUNTY
ZONING JURISDICTION:	SALT LAKE CITY
ZONING CLASSIFICATION:	M-1
AT&T LEASE AREA:	2292.7 SQ. FT.
PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.
POWER PROVIDER:	ROCKY MOUNTAIN POWER
TELCO PROVIDER:	LNS



TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN UTAH, CALL BLUE STAKES OF UTAH
TOLL FREE: 1-800-662-4111 OR www.bluestakes.org

Know what's below.
Call before you dig.

UTAH STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE



PROJECT: AT&T NEW BUILD

SITE #: UTL01221

SITE NAME: 1300 S 5600 W

FA#: 14431264

USID: 225844

PACE#: MRUTH027205/MRUTH029873

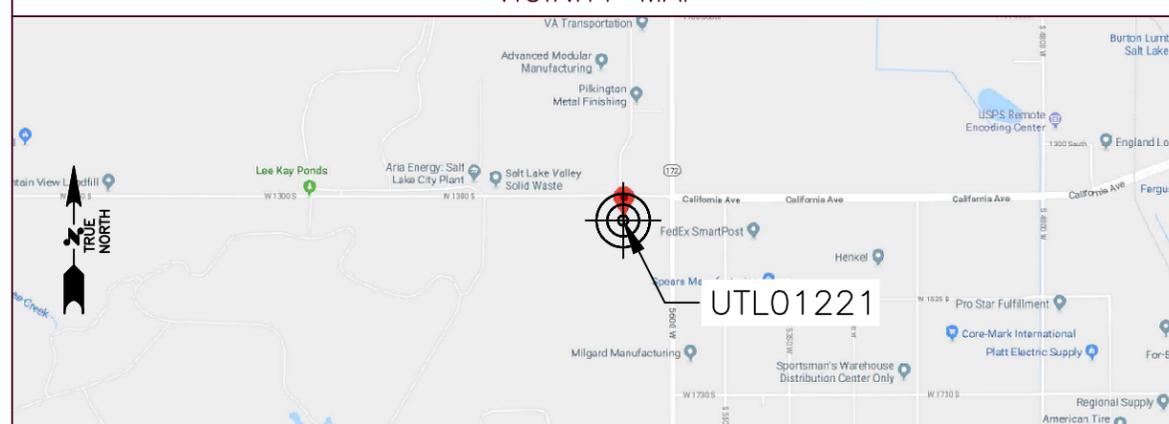
MRUTH029773/MRUTH029828

MRUTH029807

SITE ADDRESS: 1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104

JURISDICTION: SALT LAKE CITY

VICINITY MAP



DRIVING DIRECTIONS

FROM SALT LAKE CITY INTERNATIONAL AIRPORT, 776 N TERMINAL DR, SALT LAKE CITY, UT 84122, USA:
TAKE CROSSBAR RD AND TERMINAL DR TO 4000 W. HEAD NORTHEAST ON N TERMINAL DR. SLIGHT RIGHT. USE THE MIDDLE LANE TO TURN RIGHT TOWARD N 3700 W. USE THE LEFT LANE TO TURN SLIGHTLY RIGHT ONTO N 3700 W. KEEP RIGHT. CONTINUE ONTO CROSSBAR RD. TAKE THE RAMP ONTO TERMINAL DR. KEEP RIGHT TO STAY ON TERMINAL DR, 0.5 MI. DRIVE TO CALIFORNIA AVE. CONTINUE ONTO 4000 W. TURN RIGHT ONTO CALIFORNIA AVE.

BUILDING CODES

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

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 NATIONAL RESIDENTIAL CODE
- 2000 - LIGHTNING PROTECTION CODE
- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
- TELECORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS
- TELECORDIA GR-1503, COAXIAL CABLE CONNECTIONS
- 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 RESTRICTIVE REQUIREMENT SHALL GOVERN, WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

RFDS DATA

RFDS ID: 2596699 DATED: 10/08/2018
REVISION: N/A VERSION: 1.00
UPDATED BY: sd111v
DATE/TIME UPDATED: 11/29/2018 @ 12:22:04 PM

NUMBER OF SECTORS:	3
NUMBER OF ANTENNAS:	6
NUMBER OF RRHS:	15
NUMBER OF FIBER/DC SQUIDS:	3
NUMBER OF FIBER TRUNK CABLES:	3
NUMBER OF DC TRUNK CABLES:	6

APPROVALS

AT&T (RF): _____ DATE: _____
AT&T (CONST): _____ DATE: _____
AT&T (SAM): _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____

PROJECT SCOPE

1C 3C 5C 4T4R 2ND RRH ADD
 2C 4C 6C RRH SWAP

PROJECT DESCRIPTION

THIS PROJECT WILL BE COMPRISED OF:

PROPOSED 80'-0" MONOPOLE SCOPE OF WORK:

- PROPOSED (6) ANTENNAS, (2) PER SECTOR
- PROPOSED (15) RRH'S, (5) PER SECTOR
- PROPOSED (3) AT&T VFA12-M3-WLL ANTENNA MOUNT (1) PER SECTOR
- PROPOSED (3) RAYCAP SURGE SUPPRESSOR
- PROPOSED (3) FIBER LINES
- PROPOSED (6) DC POWER LINES

PROPOSED AT&T GROUND SCOPE OF WORK:

- PROPOSED (1) AT&T WALK-IN-CABINET
- PROPOSED (1) 30kW DIESEL GENERATOR
- PROPOSED 2' WIDE ICE BRIDGE
- PROPOSED AT&T GPS ANTENNA
- PROPOSED 1-TON HVAC WALL MOUNT UNIT

SHEET INDEX

SHEET #	DESCRIPTION	REVISION #
T-1	TITLE SHEET	0
T-2	GENERAL NOTES	0
A-1	OVERALL SITE PLAN	0
A-1.1	GENERAL NOTES & LEGAL DESCRIPTION	0
A-2	ENLARGED SITE PLAN	0
A-3	EQUIPMENT PLAN	0
A-4	ANTENNA LAYOUT AND SCHEDULE	0
A-5	ELEVATIONS	0
D-6	DETAILS	0
D-7	DETAILS	0
D-8	DETAILS	0
D-9	WALK-IN-CABINET DETAILS	0
D-10	GENERATOR DETAILS	0
D-11	DETAILS	0
D-12	DETAILS	0
D-13	FOUNDATION DETAILS	0
D-14	ICE BRIDGE DETAIL	0
E-1	SWIC PANEL SCHEDULE	0
E-2	SINGLE LINE DIAGRAM AND FAULT CALCULATIONS	0
G-1	GROUNDING PLAN	0
G-2	GROUNDING DETAILS	0
G-3	GROUNDING DETAILS	0



161 INVERNESS DRIVE W, 2ND FLOOR
ENGLEWOOD, CO 80112



1997 ANNAPOLIS EXCHANGE PARKWAY,
SUITE 200
ANNAPOLIS, MD 21401



1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE
PRINTED MEDIA ONLY.

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
D	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

TITLE SHEET

SHEET NO.

T-1

GENERAL NOTES

GENERAL CONSTRUCTION

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 - 1.1. CONTRACTOR – T.B.D
 - 1.2. SUB-CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
 - 1.3. OWNER – AT&T MOBILITY
 - 1.4. OEM – ORIGINAL EQUIPMENT MANUFACTURER
2. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. 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.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMAN-LIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2A TO 2A:10B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF AT&T GROUNDING STANDARD "GROUNDING AND BONDING REQUIREMENTS FOR NETWORK FACILITIES (ATT-TP-76416) AND "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" (ATT-TP-76300). IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

ANTENNA MOUNTING

41. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
42. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
43. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
44. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
45. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK WASHERS AND/OR DOUBLE NUTS, AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
46. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
47. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
48. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN ±3' AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN ±0.5' AS DEFINED BY THE RFDS. REFER TO ND-00246.
49. JUMPERS FROM THE TOWER MOUNTED AMPLIFIERS MUST TERMINATE TO OPPOSITE POLARIZATIONS IN EACH SECTOR.
50. CONTRACTOR SHALL RECORD THE SERIAL NUMBER, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
51. TOWER MOUNTED AMPLIFIERS SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.
52. ANTENNAS SHALL HAVE A 3'-0" MINIMUM CENTER-TO-CENTER HORIZONTAL SEPARATION.

TORQUE REQUIREMENTS

53. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
54. A TORQUE MARK FORMING A CONTINUOUS STRAIGHT LINE IS TO BE MADE IN THE FOLLOWING APPLICATIONS:
 - A. RF CONNECTIONS – MARK BOTH SIDES OF THE CONNECTOR
 - B. GROUNDING AND ANTENNA HARDWARE – MARK ON THE NUT SIDE OF THE BOLT, STARTING FROM THE THREADS TO THE SOLID SURFACE. SOLID SURFACE EXAMPLES INCLUDE A GROUND BAR OR ANTENNA BRACKET METAL.
55. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).
56. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).
57. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
58. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 – 29.8 NM).
59. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 – 2.3 NM).

FIBER & POWER CABLE MOUNTING

60. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED IN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER

TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SHALL BE SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ATRICLE 770 RULES SHALL APPLY.

61. TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS OR CABLE TRAYS, AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) FEET. WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS OR CABLE TRAYS THAT ARE SERVICING UTILIZATION EQUIPMENT OR DEVICES. A TRANSITION DISTACE EXCEEDING (6) FEET REQUIRES CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
62. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

COAXIAL CABLE NOTES

63. TYPES AND SIZES OF THE ANTENNA CABLES ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
64. CONTRACTOR SHALL VERIFY THAT THE DOWNTILT OF EACH ANTENNA IS WITHIN +/- 0.5 DEGREES OF SPECIFICATION WITH AN OCI APPROVED DIGITAL LEVEL.
65. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERSION.
66. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'-0".
67. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, NOT TO EXCEED 4'-0" OC.
68. COAXIAL CABLE SHALL BE SECURED TO THE DESIGNATED SUPPORT STRUCTURE(S) PER MANUFACTURER'S SPECIFICATIONS.
69. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
70. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH AT&T STANDARDS.

GENERAL CABLE AND EQUIPMENT NOTES

71. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, COAX CONFIGURATION, MAKES, AND MODELS PRIOR TO INSTALLATION.
72. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
73. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
74. AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE, ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE OR OTHER APPROVED WEATHERPROOFING METHODS PER AT&T SPECIFICATIONS. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED. SELF BONDING TAPE AND PLASTIC ENCLOSURES ARE PERMITTED PER ATT-002-290-041, SECTION 7.
75. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
 - A. TEMPERATURE SHALL BE ABOVE 50 DEGREES FAHRENHEIT.
 - B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
 - C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
 - D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
76. ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUND KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS:
 - A. GROUNDING AT THE ANTENNA LEVEL.
 - B. GROUNDING AT THE MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
 - C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
 - D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
 - E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
77. ANTENNA CONTRACTOR SHALL FURNISH AND INSTALL A 10'-0" T-BOOM SECTOR ANTENNA MOUNT INCLUDING ALL HARDWARE, IF APPLICABLE.



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS			
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C	01/16/20	90% CD	PTN
O	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL0121

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

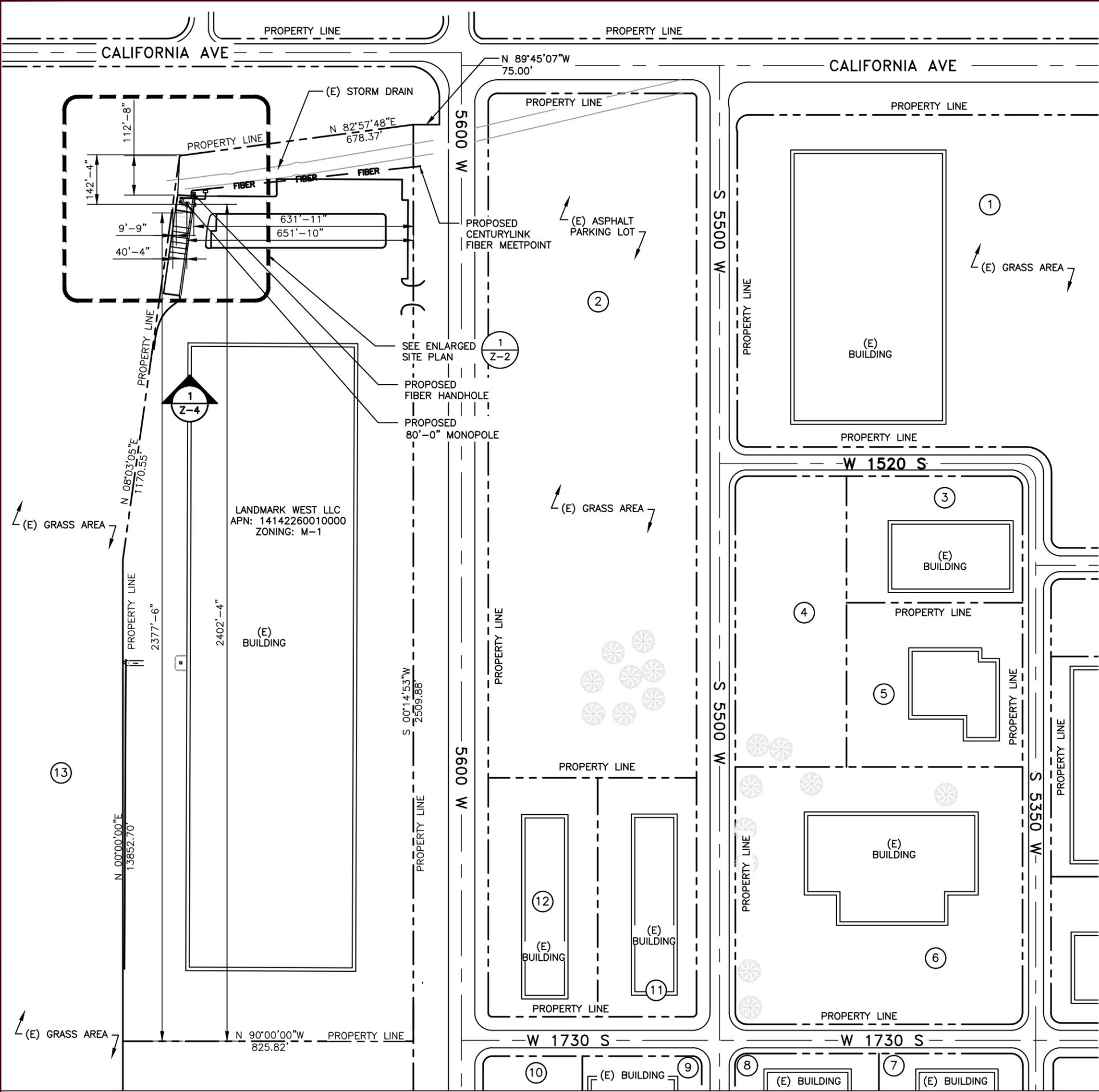
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

GENERAL NOTES

SHEET NO.

T-2



AERIAL VIEW

LEGEND

EXISTING TREES/SHRUBS	
ACCESS ROAD	
EXISTING BUILDING	
FENCE LINE	-X-
TREE/BUSH LINE	
PROPERTY LINE	- - - -
EASEMENT LINE	- · - · -
UTILITY POLE	
POWER LINE	- POWER -
FIBER LINE	- FIBER -
OVERHEAD WIRE	- O/H -

SEE SHEET A-1.1 FOR APN NUMBER AND PROPERTY OWNER DETAILS

161 INVERNESS DRIVE W, 2ND FLOOR
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1997 ANNAPOLIS EXCHANGE PARKWAY,
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IRVING, TEXAS 75038
1-855-669-5421

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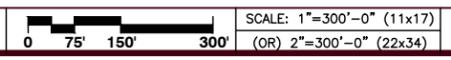
SHEET DESCRIPTION

OVERALL SITE PLAN

SHEET NO.

A-1

OVERALL SITE PLAN



GENERAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE AT&T CONSTRUCTION MANAGER IN WRITING, OF ANY CONFLICT, ERRORS OR OMISSION PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. THE SCOPE OF THE WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES AND NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT (800) 424-5555 PRIOR TO EXCAVATION AT SITE.
8. ANY UNDERGROUND UTILITIES OR STRUCTURES THAT EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
9. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
10. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
11. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
12. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
13. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.
14. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED IN ANY FILL OR EMBANKMENT.
15. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE DIRECTED BY UTILITY OWNER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
16. THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED AND RESTORED PER CODE/LANDLORD REQUIREMENTS.
17. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE MUNICIPALITY.
18. UTILITY WARNING TAPE SHALL BE PLACED ABOVE ALL NEW CONDUITS AT MAX 18" DEPTH BELOW GRADE.
19. AT&T CONTRACTOR RESPONSIBILITIES:
 - a. INSTALLATION OF POWER AND TELCO CONDUIT FROM MULTI-GANG METER RACK AND TELCO DEMARCATION.
 - b. INSTALLATION OF WAVE GUIDE SUPPORT FROM AT&T LEASED AREA TO TOWER BASE.
 - c. POWER AND FIBER LINES FROM AT&T GROUND EQUIPMENT TO ANTENNA MOUNT LOCATION ON TOWER.
 - d. AT&T ANTENNAS, RRU's AND APPURTENANT AT&T EQUIPMENT TO ANTENNA MOUNTING PLATFORM AT RAD CENTER IN ACCORDANCE WITH AT&T RFDS.

APN NUMBER & PROPERTY OWNER DETAILS

NO:	APN:	PROPERTY OWNER:	NO:	APN:	PROPERTY OWNER:
1	14131010010000	LANDMARK BUILDING ONE LLC 1455 S 5500 W SALT LAKE, UT 84104	11	14131520020000	PARKWOOD ARIZONA LLC 1670 S 5500 W SALT LAKE, UT 84104
2	14131000100000	PARKWOOD ARIZONA LLC 5552 W 1730 S SALT LAKE, UT 84104	12	14131520010000	PARKWOOD ARIZONA LLC 5570 W 1730 S SALT LAKE, UT 84104
3	14131510030000	SPEARS, ROBERT W; ET AL 5395 W 1520 S SALT LAKE, UT 84104	13	14142000030000	UTAH DEPARTMENT OF TRANSPORTATION 5775 W CALIFORNIA AVE SALT LAKE, UT 84104
4	14131510060000	NATOMAS MEADOWS LLC 1575 S 5500 W SALT LAKE, UT 84104			
5	14131510050000	CINTAS CORPORATION # 3 1586 S 5350 W SALT LAKE, UT 84104			
6	14131510010000	NOVUS DEVELOPMENT CORPORATION 5420 W 1730 S SALT LAKE, UT 84104			
7	14133020020000	WESTERN B NORTHWEST UT, LLC 1770 S 5350 W SALT LAKE, UT 84104			
8	14133020020000	WESTERN B NORTHWEST UT, LLC 1735 S 5500 W SALT LAKE, UT 84104			
9	14133010130000	GOF UTAH, LLC; 32.50% IPP UTAH, LLC; 1775 S 5600 W SALT LAKE, UT 84104			
10	14133010120000	GOF UTAH, LLC; 32.50% IPP UTAH, LLC; 1775 S 5600 W SALT LAKE, UT 84104			

LEGAL DESCRIPTION:

THE LAND REFERRED TO HEREIN IS SITUATED IN THE COUNTY OF SALT LAKE, STATE OF UTAH, AND IS DESCRIBED AS FOLLOWS:

A PARCEL OF LAND LOCATED IN THE NORTHEAST QUARTER AND THE SOUTHEAST QUARTER OF SECTION 14, TOWNSHIP 1 SOUTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ALONG THE EXISTING WESTERLY RIGHT OF WAY LINE OF 5600 WEST STREET, WHICH IS 150.16 FEET SOUTH 00°14'53" WEST ALONG THE SECTION LINE AND 75.00 FEET NORTH 89°45'07" WEST FROM THE NORTHEAST CORNER OF SAID SECTION 14;

AND RUNNING THENCE SOUTH 00°14'53" WEST 2509.88 FEET;

THENCE SOUTH 00°15'25" WEST 114.96 FEET;

THENCE WEST 825.82 FEET;

THENCE NORTH 1382.70 FEET;

THENCE NORTH 08°03'05" EAST 1170.55 FEET;

THENCE NORTH 82°57'48" EAST 678.37 FEET TO THE POINT OF BEGINNING.



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IRVING, TEXAS 75038
1-855-669-5421

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1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

GENERAL NOTES &
LEGAL DESCRIPTION

SHEET NO.

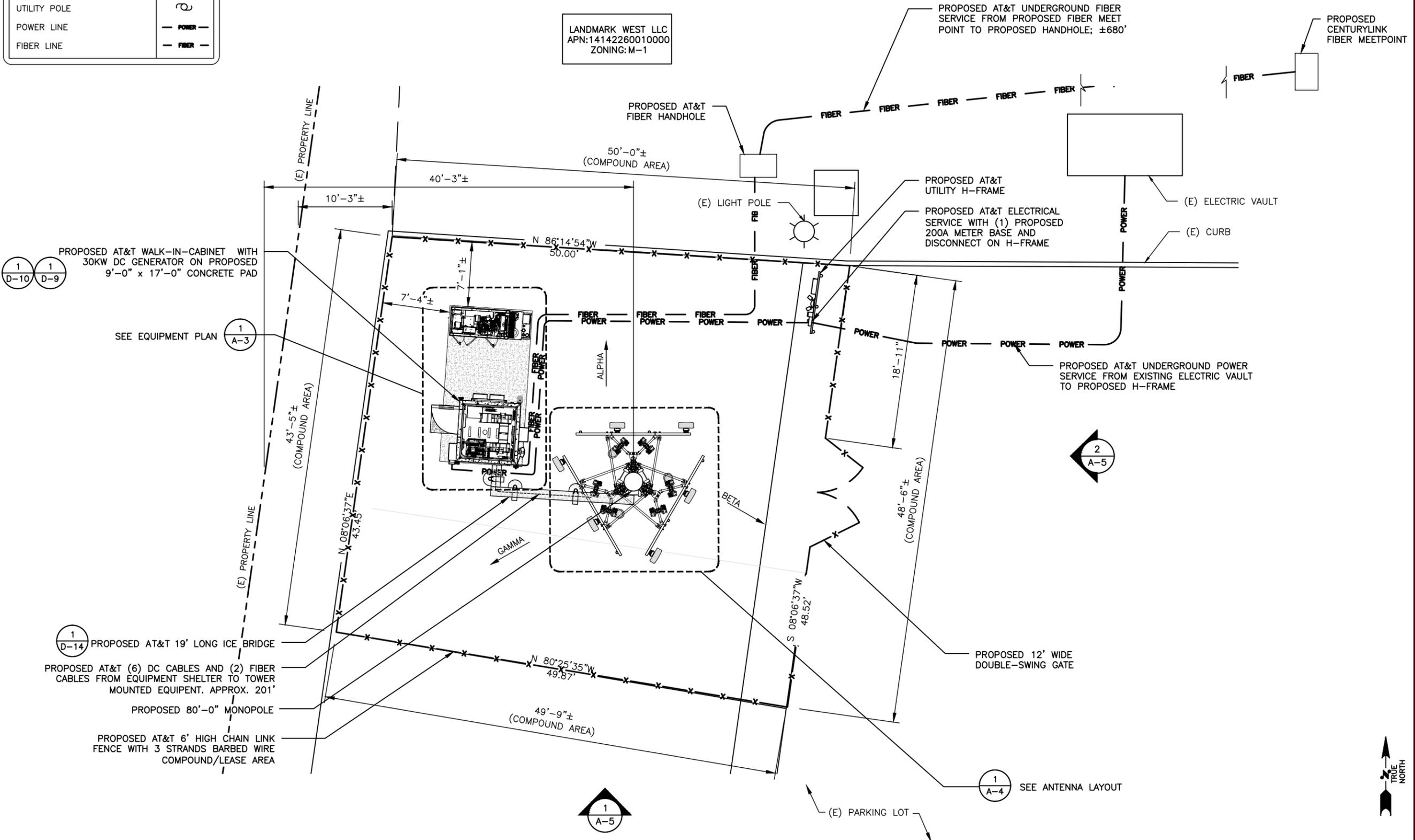
A-1.1

LEGEND	
EXISTING TREES/SHRUBS	
ACCESS ROAD	
EXISTING BUILDING	
FENCE LINE	
TREE/BUSH LINE	
PROPERTY LINE	
EASEMENT LINE	
UTILITY POLE	
POWER LINE	
FIBER LINE	

NOTE:
THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

NOTE:
ALL DIGGING MUST NOT EXCEED 1FT (12") AND MUST NEVER DISTURB THE STRUCTURAL FABRIC HOLDING THE RETAINING WALL

LANDMARK WEST LLC
APN:14142260010000
ZONING:M-1



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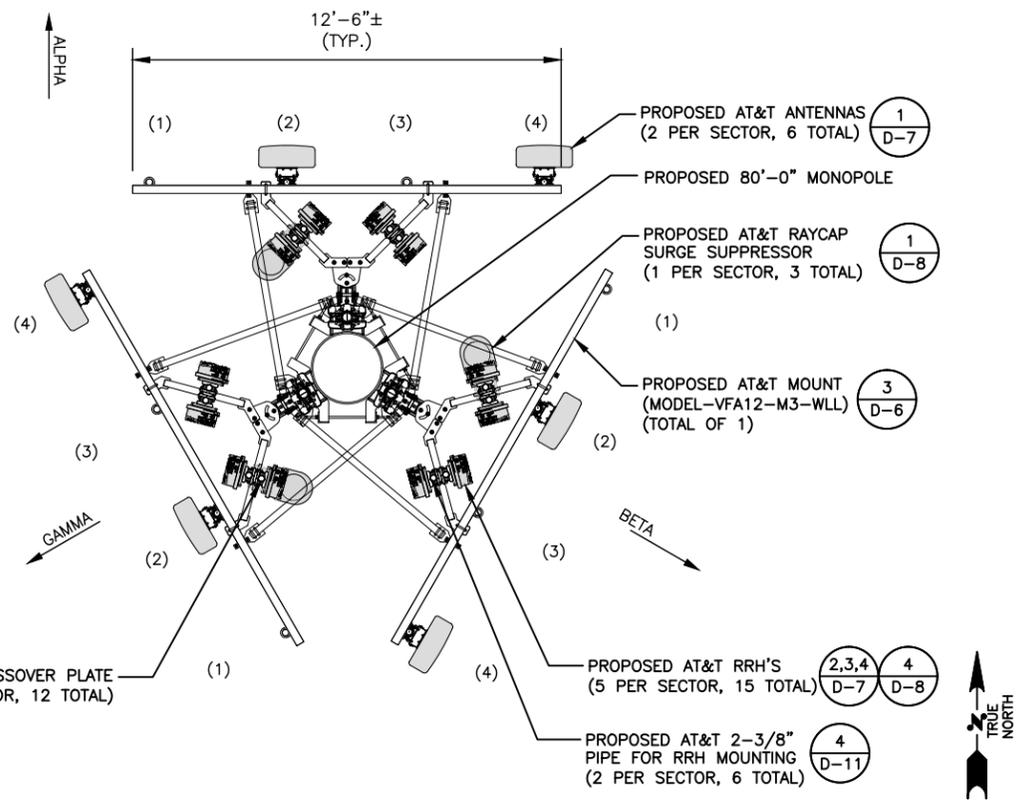
SHEET DESCRIPTION

ENLARGED SITE PLAN

SHEET NO.

A-2



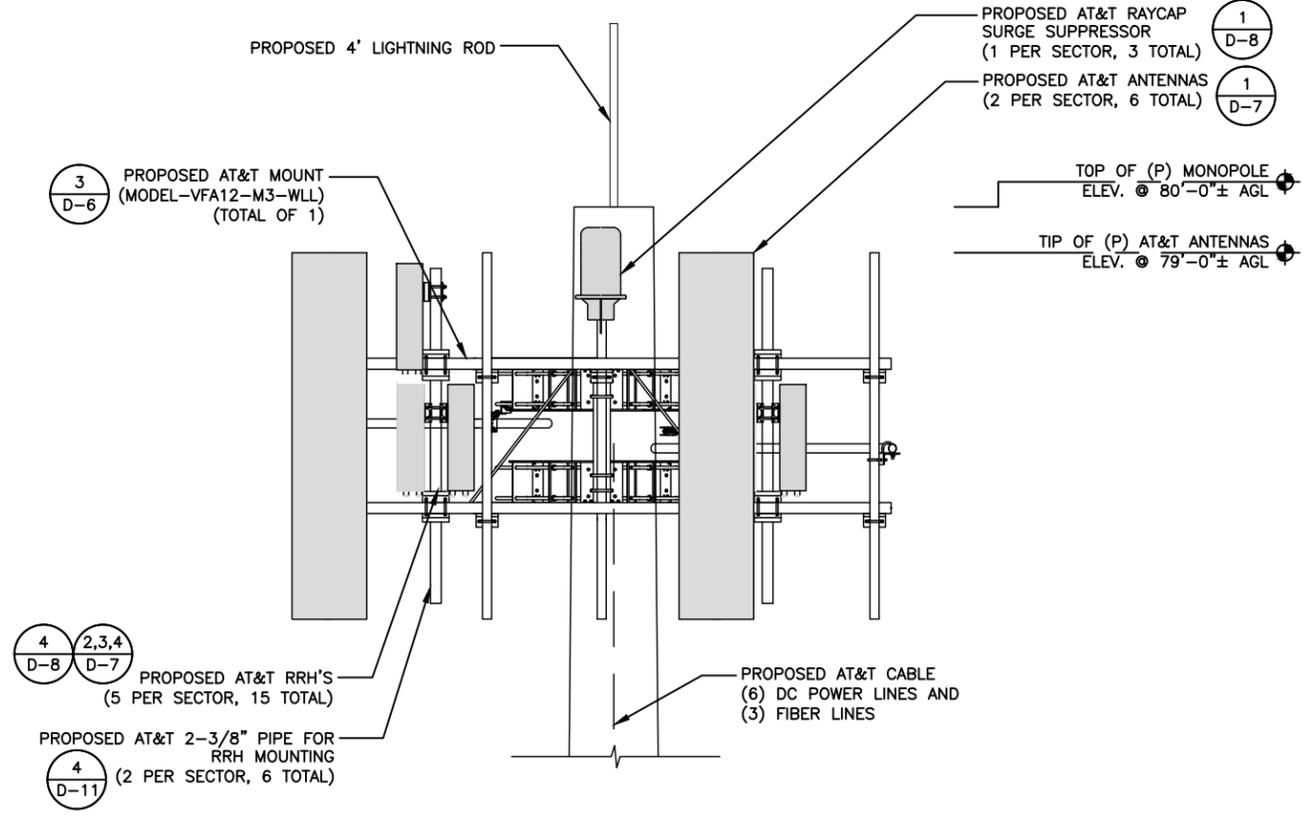


PROPOSED ANTENNA LAYOUT



SCALE: 3/16"=1'-0" (11x17)
(OR) 3/8"=1'-0" (22x34)

1 PROPOSED SECTOR PROFILE



SCALE: 1/4"=1'-0" (11x17)
(OR) 1/2"=1'-0" (22x34)

2



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0	01/21/20	100% CD	PTN

ANTENNA SCHEDULE										
SECTOR	ANTENNA POSITION	TECHNOLOGY	MANUFACTURER	MODEL NUMBER	STATUS	TIP HEIGHT	CABLE TYPE	APPROXIMATE CABLE LENGTH	SQUID	RADIO
ALPHA	1	-	-	-	-	-	-	-	-	-
	2	LTE 850/LTE 1900 LTE AWS/LTE WCS	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"	(2) DC TRUNKS (1) FIBER TRUNK	110'-0"	(1) DC6-48-60-24-8C-EV	(1) AIRSCALE RRH 4T4R B5 160W AHCA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE RRH 4T4R B30 100W AHNA
	3	-	-	-	-	-	-	-	-	-
	4	LTE 700/LTE 1900	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"	-	110'-0"	-	(1) B12/B14 AIRSCALE DUALBAND RRH 4T4R 320W (AHLBA) (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB
BETA	1	-	-	-	-	-	-	-	-	-
	2	LTE 850/LTE 1900 LTE AWS/LTE WCS	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"	(2) DC TRUNKS (1) FIBER TRUNK	110'-0"	(1) DC6-48-60-24-8C-EV	(1) AIRSCALE RRH 4T4R B5 160W AHCA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE RRH 4T4R B30 100W AHNA
	3	-	-	-	-	-	-	-	-	-
	4	LTE 700/LTE 1900	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"	-	110'-0"	-	(1) B12/B14 AIRSCALE DUALBAND RRH 4T4R 320W (AHLBA) (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB
GAMMA	1	-	-	-	-	-	-	-	-	-
	2	LTE 850/LTE 1900 LTE AWS/LTE WCS	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"	(2) DC TRUNKS (1) FIBER TRUNK	110'-0"	(1) DC6-48-60-24-8C-EV	(1) AIRSCALE RRH 4T4R B5 160W AHCA (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE RRH 4T4R B30 100W AHNA
	3	-	-	-	-	-	-	-	-	-
	4	LTE 700/LTE 1900	COMMSCOPE	NNH4-65C-R6*	NEW	79'-0"	-	110'-0"	-	(1) B12/B14 AIRSCALE DUALBAND RRH 4T4R 320W (AHLBA) (1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB

PROPOSED ANTENNA SCHEDULE

N.T.S. 3

* CONTRACTOR TO REFER TO FINAL RFDS FOR ALL RF DETAILS.



1-21-2020

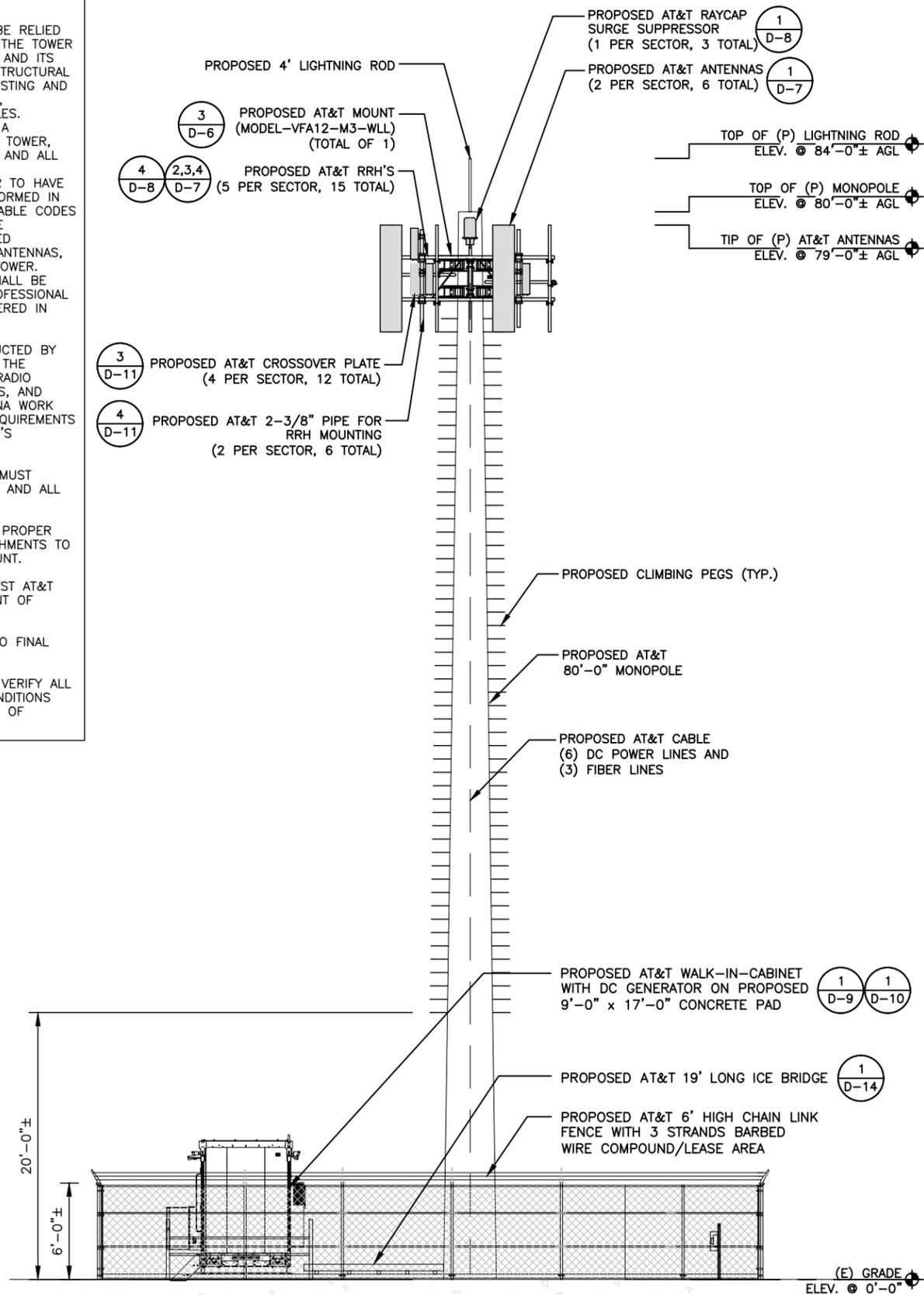
SITE INFORMATION
 LTE 1C/2C/3C/4C/5C/6C
 UTLO1221
 1300 S 5600 W
 FA#: 14431264
SITE ADDRESS:
 1550 SOUTH 5600 WEST,
 SALT LAKE CITY, UT 84104
 SALT LAKE COUNTY

SHEET DESCRIPTION
 ANTENNA LAYOUT AND
 SCHEDULE

SHEET NO.
 A-4

NOTES:

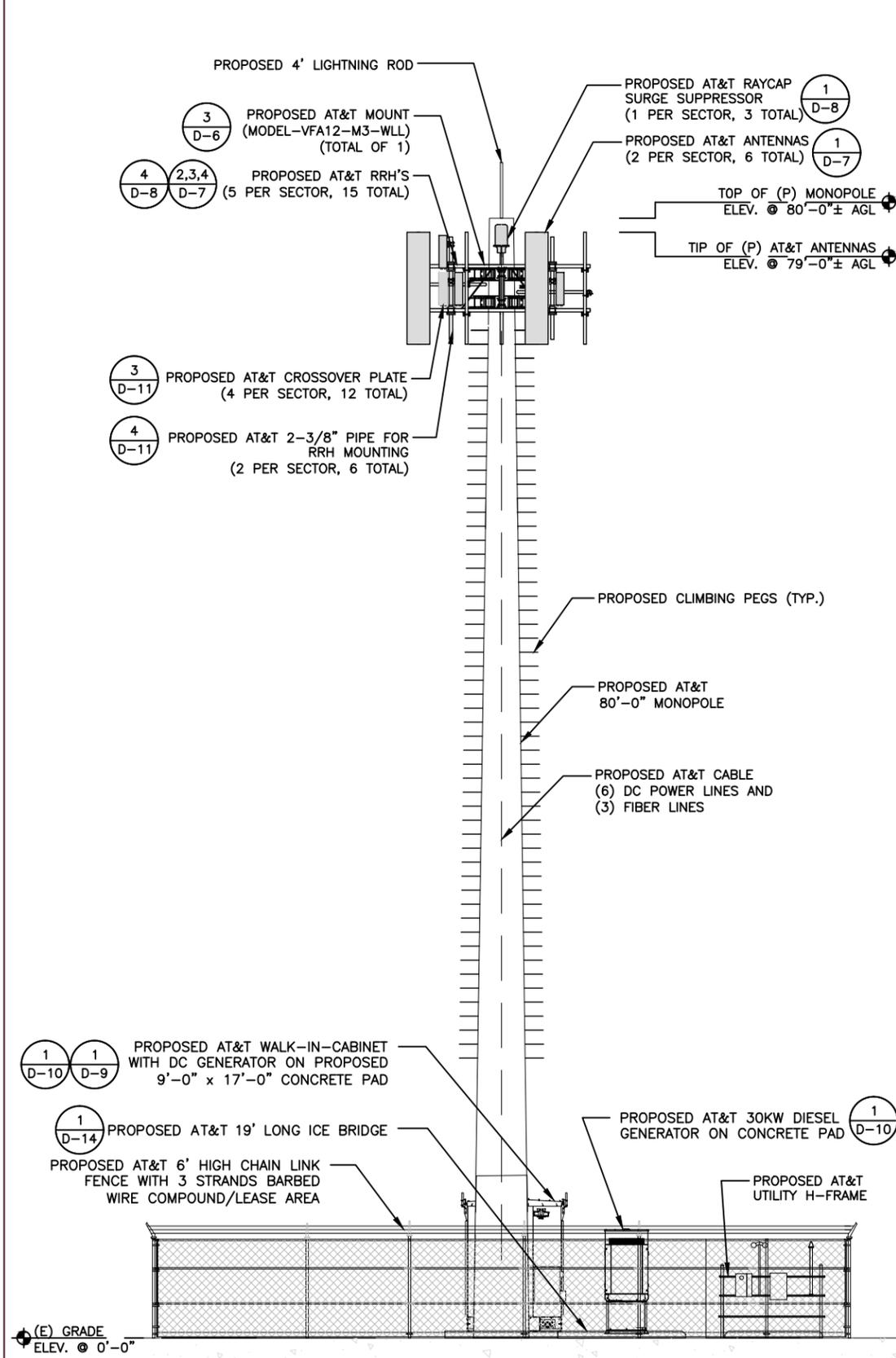
1. THESE DRAWINGS SHALL NOT BE RELIED UPON AS AN INDICATION THAT THE TOWER STRUCTURE, ITS COMPONENTS, AND ITS FOUNDATION HAVE ADEQUATE STRUCTURAL CAPACITY TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, MOUNTS, EQUIPMENT, AND COAXIAL CABLES. TRYLON HAS NOT PERFORMED A STRUCTURAL ANALYSIS ON THE TOWER, FOUNDATION, ANTENNA MOUNT, AND ALL ITS COMPONENTS. IT IS THE RESPONSIBILITY OF THE OWNER TO HAVE A STRUCTURAL ANALYSIS PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS PRIOR TO THE INSTALLATION OF ANY PROPOSED EQUIPMENT, COAXIAL CABLES, ANTENNAS, OR APPURTENANCES ON THE TOWER. THIS STRUCTURAL ANALYSIS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN UTAH.
2. INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES, AND SUPPORT STRUCTURES. ANTENNA WORK TO BE INSTALLED PER THE REQUIREMENTS OF THE TOWER MANUFACTURER'S SPECIFICATION.
3. ANTENNA AND MOUNT DESIGN MUST COMPLY WITH ANSI/TIA-222-H AND ALL LOCAL CODES.
4. CONTRACTOR TO PROVIDE THE PROPER COAX JUMPER SUPPORT ATTACHMENTS TO THE TOWER AND ANTENNA MOUNT.
5. CONTRACTOR TO GET THE LATEST AT&T RFDS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. CONTRACTOR SHOULD REFER TO FINAL RFDS FOR ALL RF DETAILS.
9. THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.



PROPOSED SOUTH ELEVATION



1



PROPOSED EAST ELEVATION



2



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UTL01221

1300 S 5600 W

FA#: 14431264

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SALT LAKE COUNTY

SHEET DESCRIPTION

ELEVATIONS

SHEET NO.

A-5

CABLE LENGTH												
SECTOR	PDF	DISTANCE & CABLE TYPE		DC-12	DISTANCE & CABLE TYPE		SQUID	DISTANCE & CABLE TYPE		RRH	TOTAL CABLE LENGTH	FINAL VOLTAGE
ALPHA		15'	8 AWG		110'	8 AWG		15'	8 AWG		140'	42.719V
BETA		15'	8 AWG		110'	8 AWG		15'	8 AWG		140'	42.719V
GAMMA		15'	8 AWG		110'	8 AWG		15'	8 AWG		140'	42.719V

NOTE:
 1. USE COMMSCOPE SNAPTAK CABLE HANGERS 10 FT. BELOW AND ABOVE ANTENNAS, AND 5 FT. BEHIND ANTENNAS TO MITIGATE PIM ISSUES. SEE DETAIL 2/D-6.
 2. CONTRACTOR TO REFER TO FINAL RFDS FOR ALL RF DETAILS.

CABLE COUNT	
QUANTITY	CABLE TYPE
6	6 CONDUCTORS (3 PR) 3/4" DC CABLE
3	36 FIBER (18 PR) 3/8" FIBER

CABLE LENGTH AND COUNT

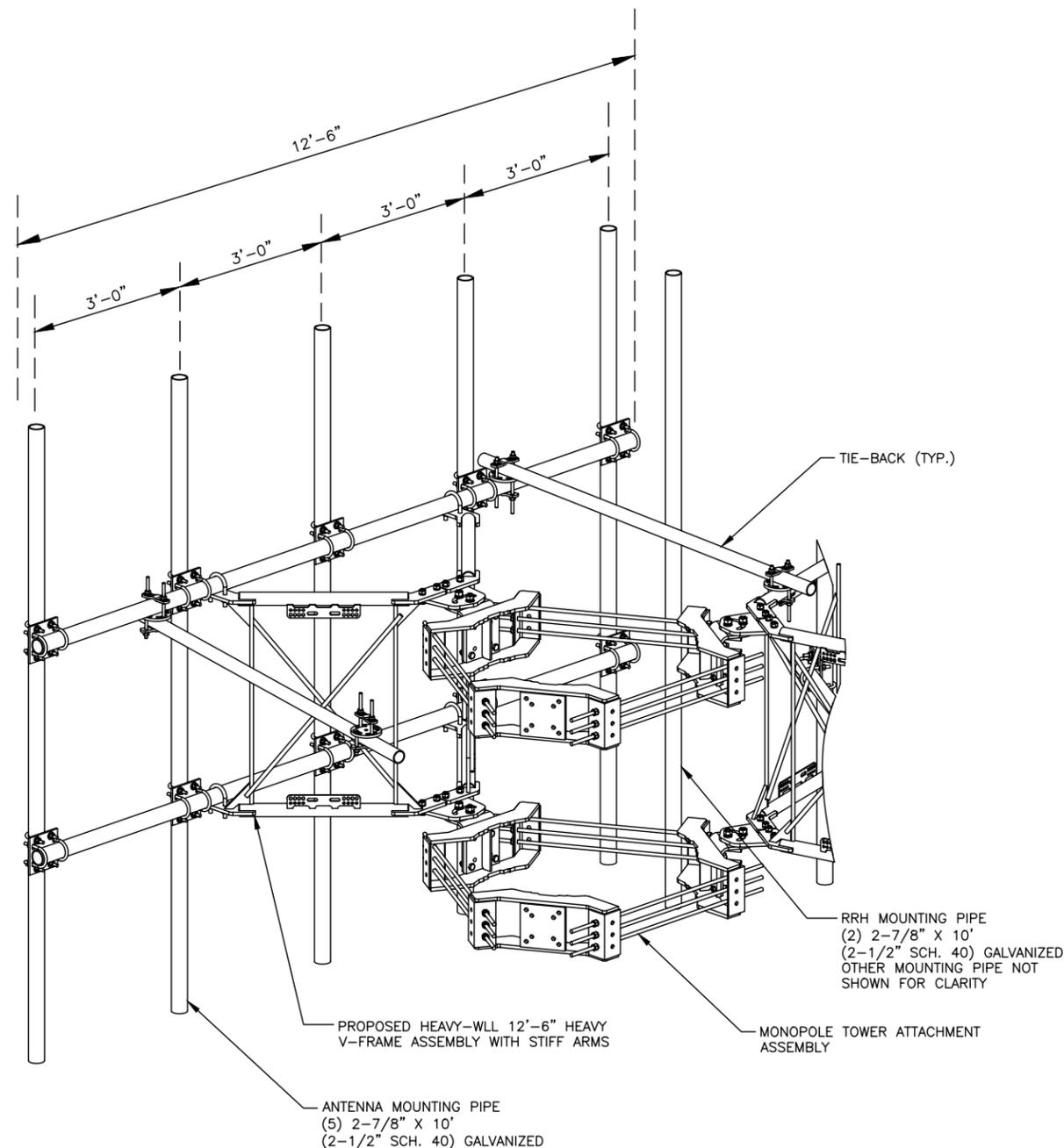
N.T.S. 1

SNAPTAK PIM FREE POLYMER HANGERS				
	PART #	AT&T ITEM NUMBER	CABLE SIZE RANGE	AT&T APPROVED CABLES
	SSH-47	ANT. 16979	4.0 TO 7.0 MM	2 FIBER JUMPERS AND 4 FIBER JUMPERS
	SSH-710	ANT. 16980	7.1 TO 10.0 MM	RET CABLES
	SSH-1014	ANT. 16981	10.1 TO 14.0 MM	2 CONDUCTOR POWER CABLES
	SSH-1416	ANT. 16982	14.1 TO 16.0 MM	1/2" COAX CABLE JUMPERS

NOTE:
 USE SNAPTAK PIM FREE POLYMER HANGERS FOR COAX, DC AND FIBER JUMPER SUPPORT.

SNAPTAK PIM FREE POLYMER HANGERS

N.T.S. 2



CLASSIFICATION	MANUFACTURER	PART #	DESCRIPTION	CEQ #	TOTAL WEIGHT
HEAVY WLL	SITE PRO 1	VFA12-M3-WLL	12'-6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS	ANT#17233	2999.58 Lbs.

PROPOSED MOUNT

N.T.S. 3



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UTL01221

1300 S 5600 W

FA#: 14431264

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 SALT LAKE COUNTY

SHEET DESCRIPTION

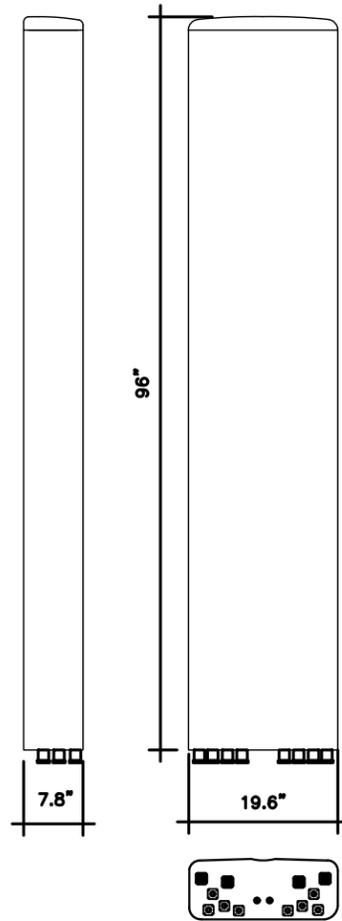
DETAILS

SHEET NO.

D-6

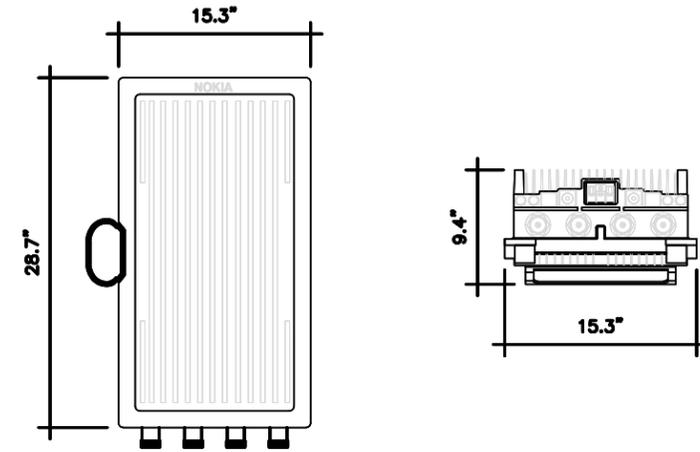
COMMSCOPE ANTENNAS NNH4-65C-R6

DIMENSIONS, HXWXD: 96"X19.6"X7.8"
 SURVIVAL WIND SPEED: >124 MPH
 WEIGHT, WITHOUT MOUNTING: 99.2 LBS. (45 kg)
 CONNECTOR: 8-PIN DIN FEMALE
 8-PIN DIN MALE
 CONNECTOR POSITION: BOTTOM
 MOUNTING POLE: 2.4-4.5 INCHES



NOKIA AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA

DIMENSIONS, HXWXD: 560 X 308 X 149 (MM) (CORE)
 28.7" X 15.3" X 9.4" (CORE)
 730 X 390 X 240 (MM)
 (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)
 28.7" X 15.3" X 9.4"
 (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)
 WEIGHT: < 46 (kg)
 < 101.4 lbs
 (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

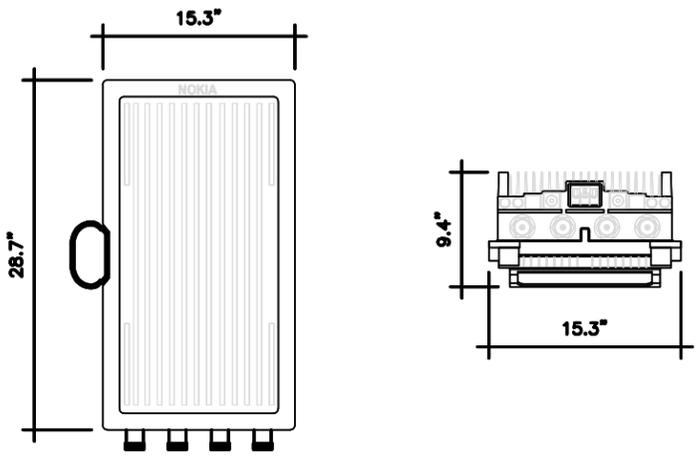
SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN

NNH4-65C-R6 ANTENNA DETAIL NOT TO SCALE 1

AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA DETAIL NOT TO SCALE 2

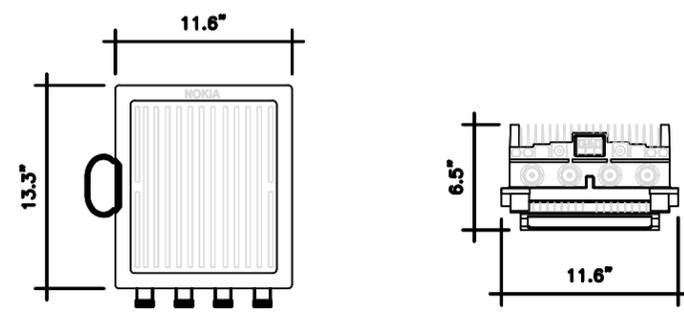
NOKIA AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB

DIMENSIONS, HxWxD: 560 X 308 X 149 (MM) (CORE)
 28.7" X 15.3" X 9.4" (CORE)
 730 X 390 X 240 (MM)
 (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)
 28.7" X 15.3" X 9.4"
 (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)
 WEIGHT: < 40 (kg)
 < 88.2 lbs
 (OVERALL NOT-TO-EXCEED WITH COVER AND BRACKET)



NOKIA NOKIA AIRSCALE RRH 4T4R B5 160W AHCA

DIMENSIONS, HXWXD: 337 X 295 X 165 (MM)
 13.3" X 11.6" X 6.5"
 WEIGHT: 16.7 (kg)
 36.8 lbs



AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB DETAIL NOT TO SCALE 3

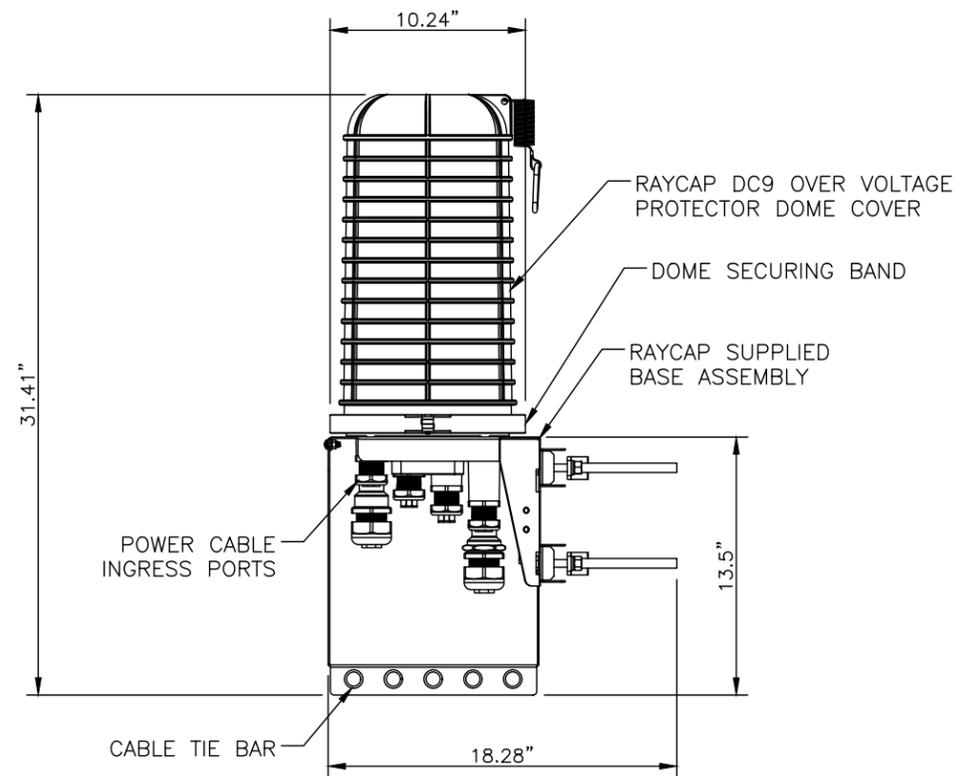
AIRSCALE RRH 4T4R B5 160W AHCA DETAIL NOT TO SCALE 4



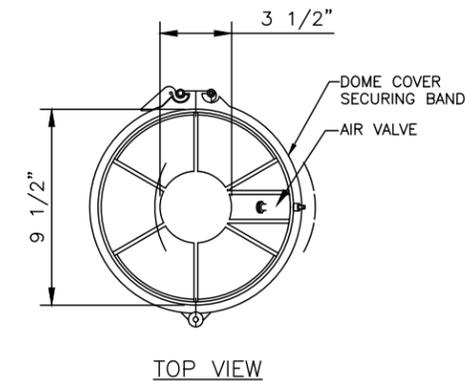
SITE INFORMATION
 LTE 1C/2C/3C/4C/5C/6C
 UTL01221
 1300 S 5600 W
 FA#: 14431264
SITE ADDRESS:
 1550 SOUTH 5600 WEST,
 SALT LAKE CITY, UT 84104
 SALT LAKE COUNTY

SHEET DESCRIPTION
 WALK IN CABINET DETAILS

SHEET NO.
 D-7



RAYCAP DC9 (SQUID)	
LENGTH (H)	18.28"
WIDTH (W)	10.24"
HEIGHT (D)	31.41"
WEIGHT:	
SYSTEM MOUNT	16.0 LBS
MOUNT	10.2 LBS
TOTAL:	26.2 LBS
COMBINED WIND LOADING	
SUSTAINED GUST	105.7 LBS 213.6 LBS



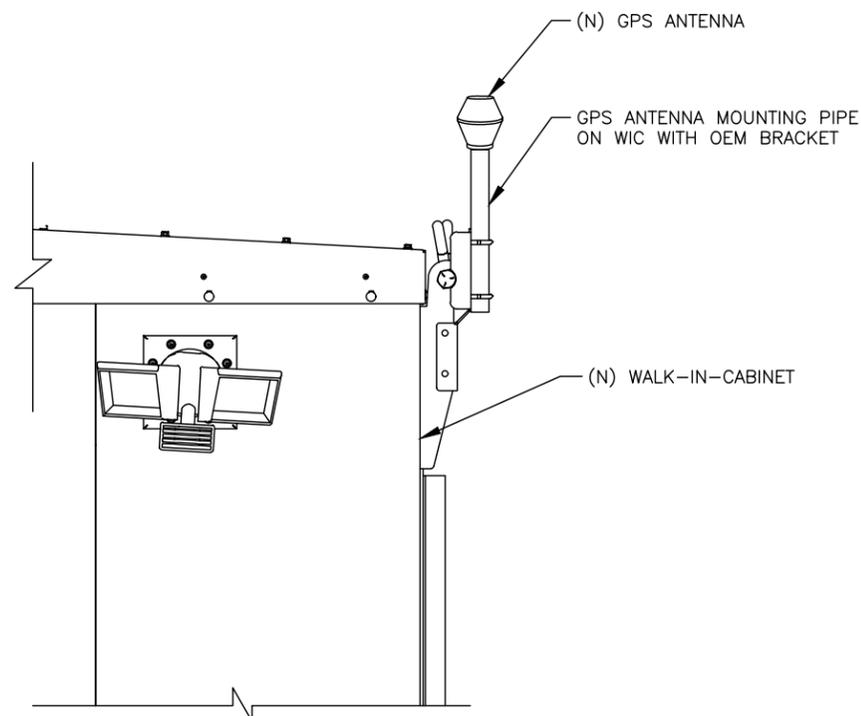
DC9-48-60-24-8C-EV

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN

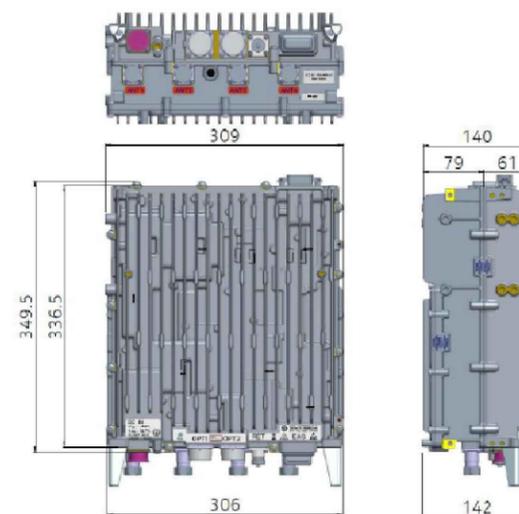
DC/FIBER SQUID DETAILS

NOT TO SCALE 1



AHNA Volume and Weight Data

Core Unit Dimensions	336.5 x 306 x 140 mm / 13.25 x 12.05 x 5.51 inch
Core Unit weight	15.5 Kg / 34.17 lbs
Core Unit volume	14.4 Liters
Core Flange Dimensions	349.5 x 309 x 142 mm / 13.76 x 12.17 x 5.59 inch
Dimensions of Core Unit with AMGD cover	349 x 317 x 160 mm / 13.74 x 12.48 x 6.30 inch
Weight of Core Unit with bracket & AMGD cover	17.7 Kg / 39.02 lbs
Volume of Core Unit Unit with AMGD cover	17.7 Liters



NOKIA



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

GENERATOR DETAILS

SHEET NO.

D-8

GPS ANTENNA MOUNTING DETAIL

NOT TO SCALE

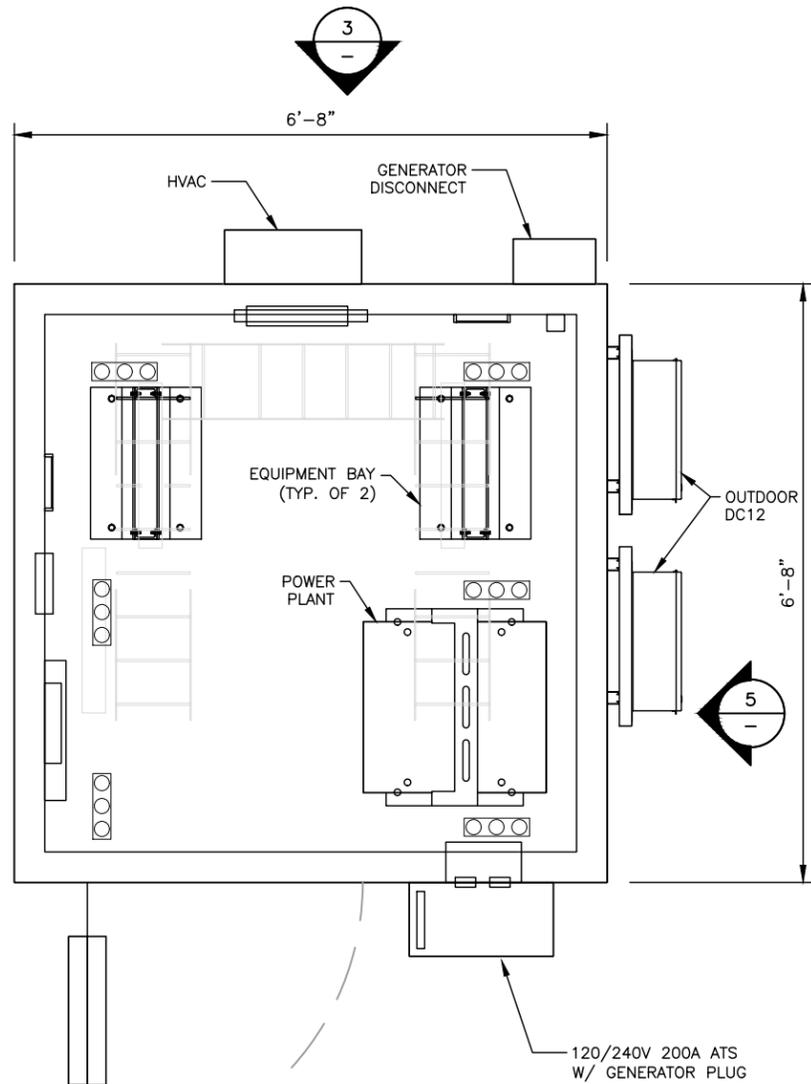
2

AIRSCALE RRH 4T4R B30 100W AHNA DETAIL

NOT TO SCALE

3

VERTIV
XTE 801 Series
 Steel Walk-In-Cabinet (SWIC)
VertivCo.com
 1050 Dearborn Drive
 Columbus, OH 43085
 (614) 888-0246



NOTE:
 THE WIC IS EQUIPPED WITH TWO 19" WIDE EQUIPMENT BAYS AND EACH PROVIDES 45 RACK UNITS. ONE RACK COMES EQUIPPED WITH A FIBER PATCH PANEL (TELCO RACK) AND THE OTHER DOES NOT (LTE RACK). RF EQUIPMENT IS TO BE IN ONE RACK, AND ANY POWER EQUIPMENT IS TO BE IN THE OTHER RACK (CIVIL VENDOR TO ENSURE RACKS ARE CORRECTLY SEPARATED).

AT&T
 161 INVERNESS DRIVE W, 2ND FLOOR
 ENGLEWOOD, CO 80112

smartlink
 1997 ANNAPOLIS EXCHANGE PARKWAY,
 SUITE 200
 ANNAPOLIS, MD 21401

Trylon
 1825 W. WALNUT HILL LANE, SUITE 120
 IRVING, TEXAS 75038
 1-855-669-5421

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

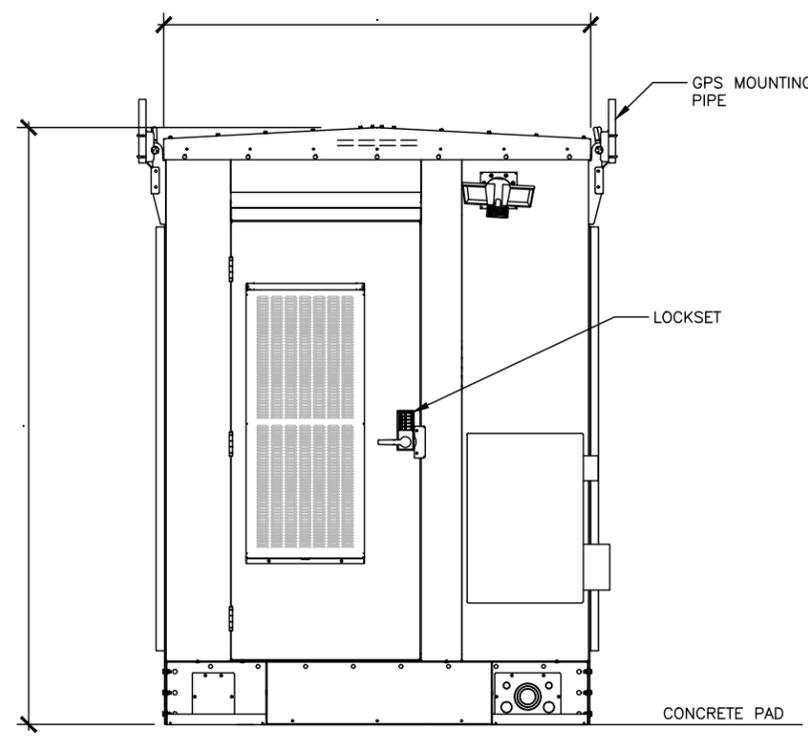
LTE 1C/2C/3C/4C/5C/6C
 UTL01221
 1300 S 5600 W
 FA#: 14431264
SITE ADDRESS:
 1550 SOUTH 5600 WEST,
 SALT LAKE CITY, UT 84104
 SALT LAKE COUNTY

SHEET DESCRIPTION

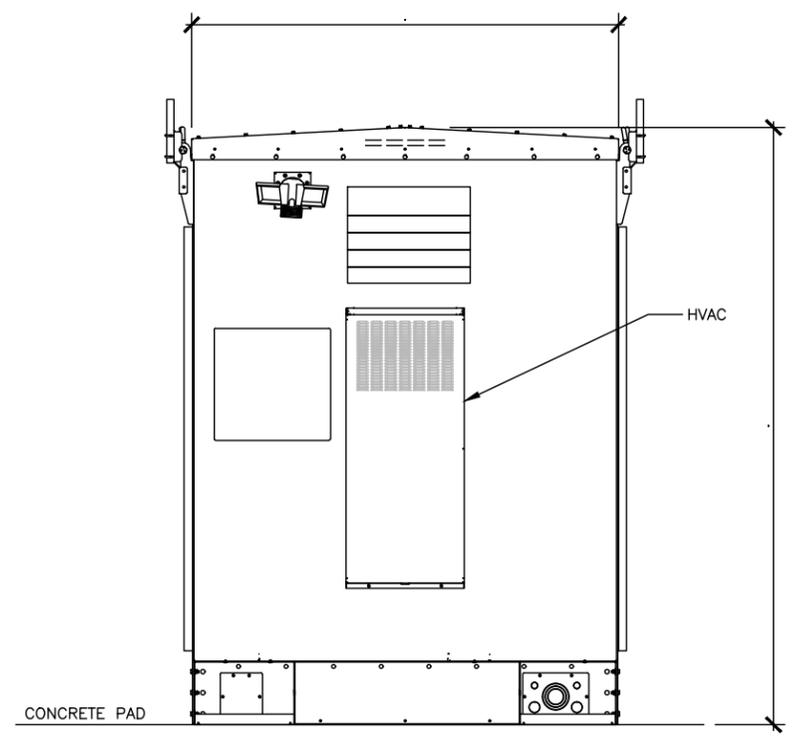
WALK IN CABINET DETAILS

SHEET NO.

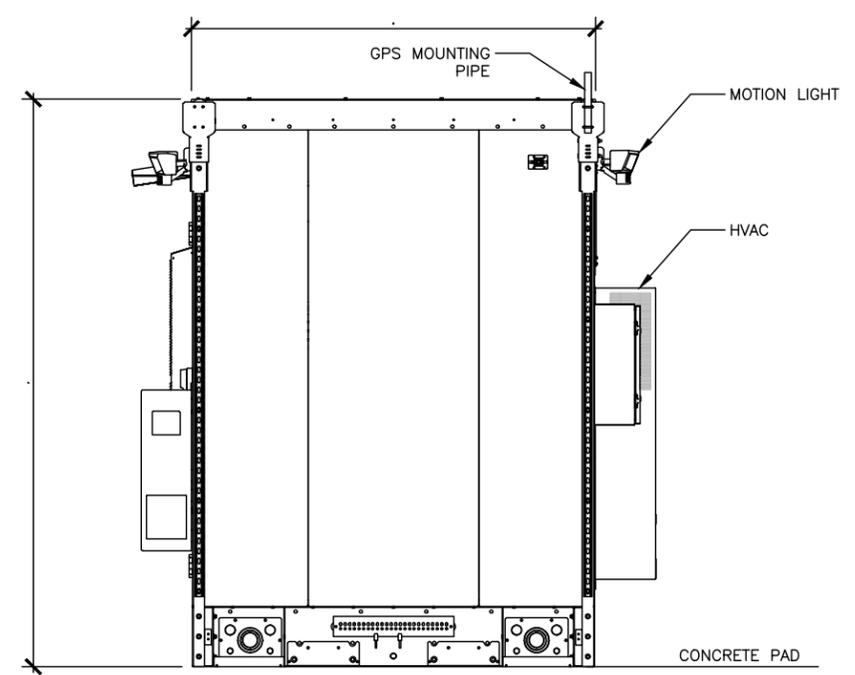
D-9



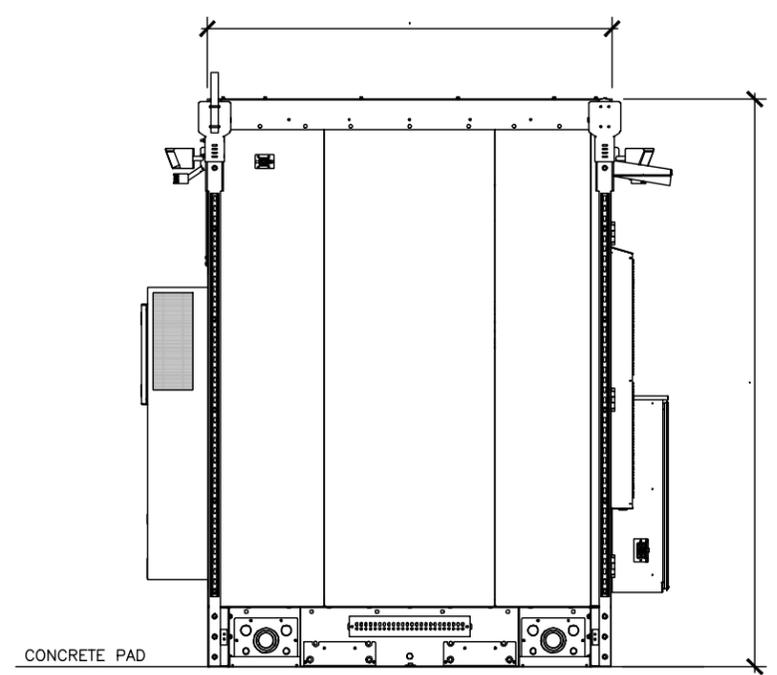
FRONT ELEVATION N.T.S.



REAR ELEVATION N.T.S.



SIDE ELEVATION N.T.S.



SIDE ELEVATION N.T.S.

STEEL WALK-IN-CABINET PLAN (SWIC) N.T.S.

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

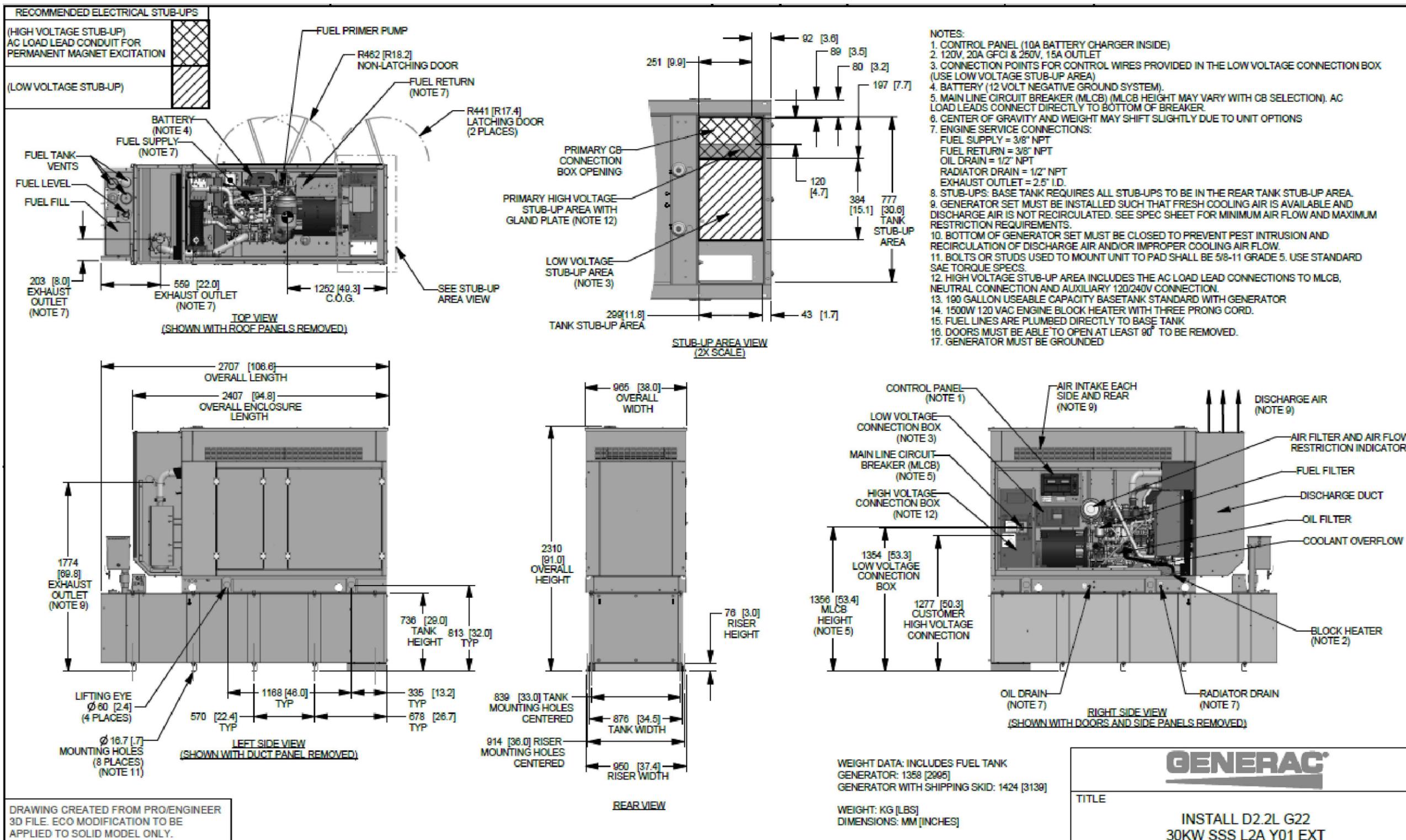
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

GENERATOR DETAILS

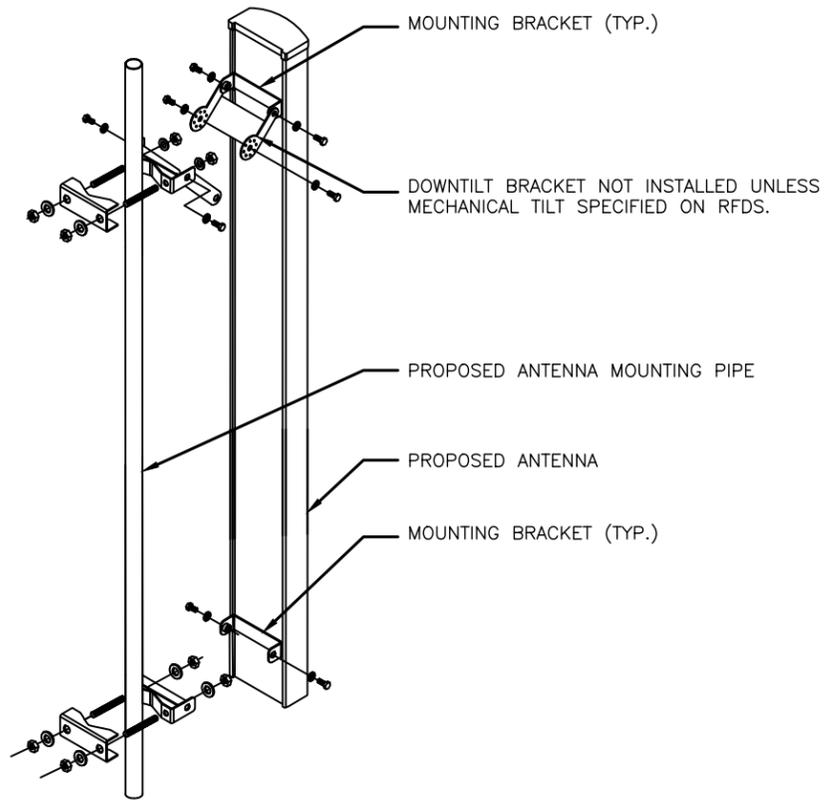
SHEET NO.

D-10



DRAWING CREATED FROM PRO/ENGINEER
3D FILE. ECO MODIFICATION TO BE
APPLIED TO SOLID MODEL ONLY.

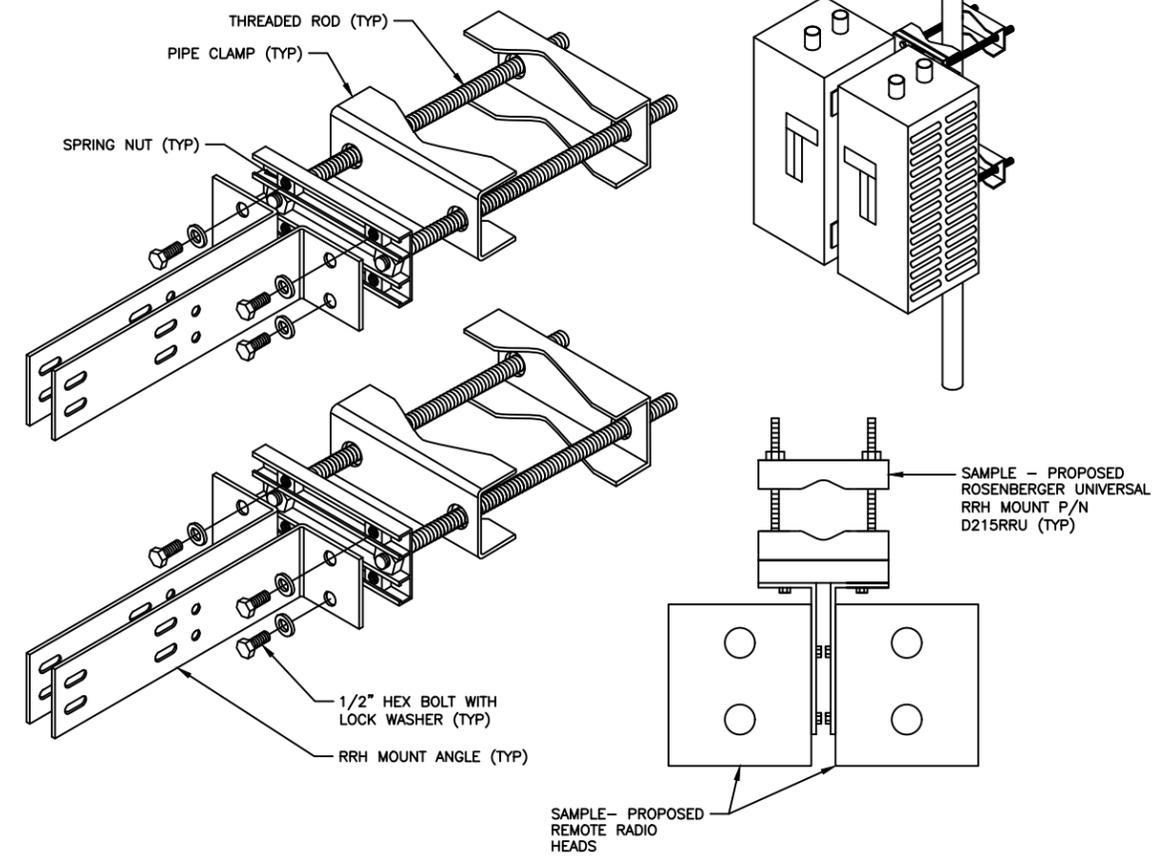
INSTALLATION DRAWING



ANTENNA MOUNTING DETAIL

NOT TO SCALE

1



RRH MOUNTING DETAIL

NOT TO SCALE

2



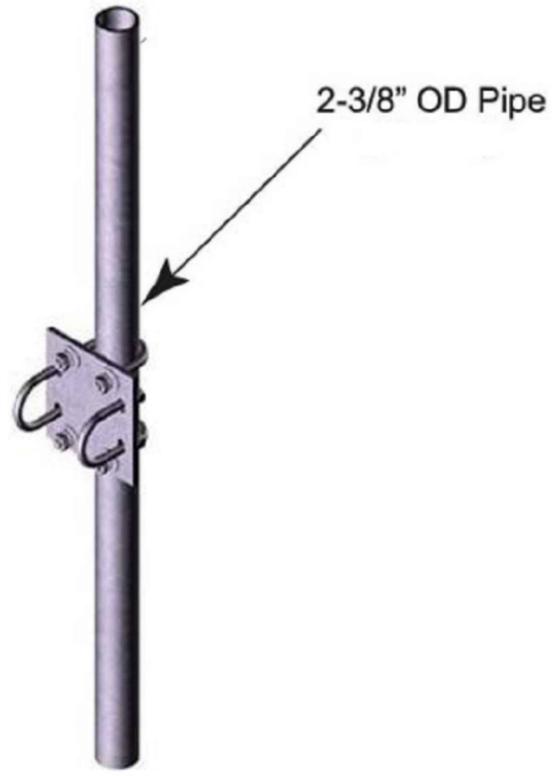
Dimensions	
Height	76.2 mm 3.0 in
Length	254.0 mm 10.0 in
Mounting Diameter, maximum	88.9 mm 3 1/2 in
Mounting Diameter, minimum	60.3 mm 2 3/8 in
Weight	4.5 kg 10.0 lb
Width	254.0 mm 10.0 in

General Specifications	
Includes	Plates U-bolts
Material Type	Hot dip galvanized steel
Mounting	Crossover plate
Package Quantity	1
Tower Taper	Non-tapered

XP-2030 DETAIL

NOT TO SCALE

3



2-3/8" PIPE DETAIL

NOT TO SCALE

4

161 INVERNESS DRIVE W, 2ND FLOOR
ENGLEWOOD, CO 80112

1997 ANNAPOLIS EXCHANGE PARKWAY,
SUITE 200
ANNAPOLIS, MD 21401

1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
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C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

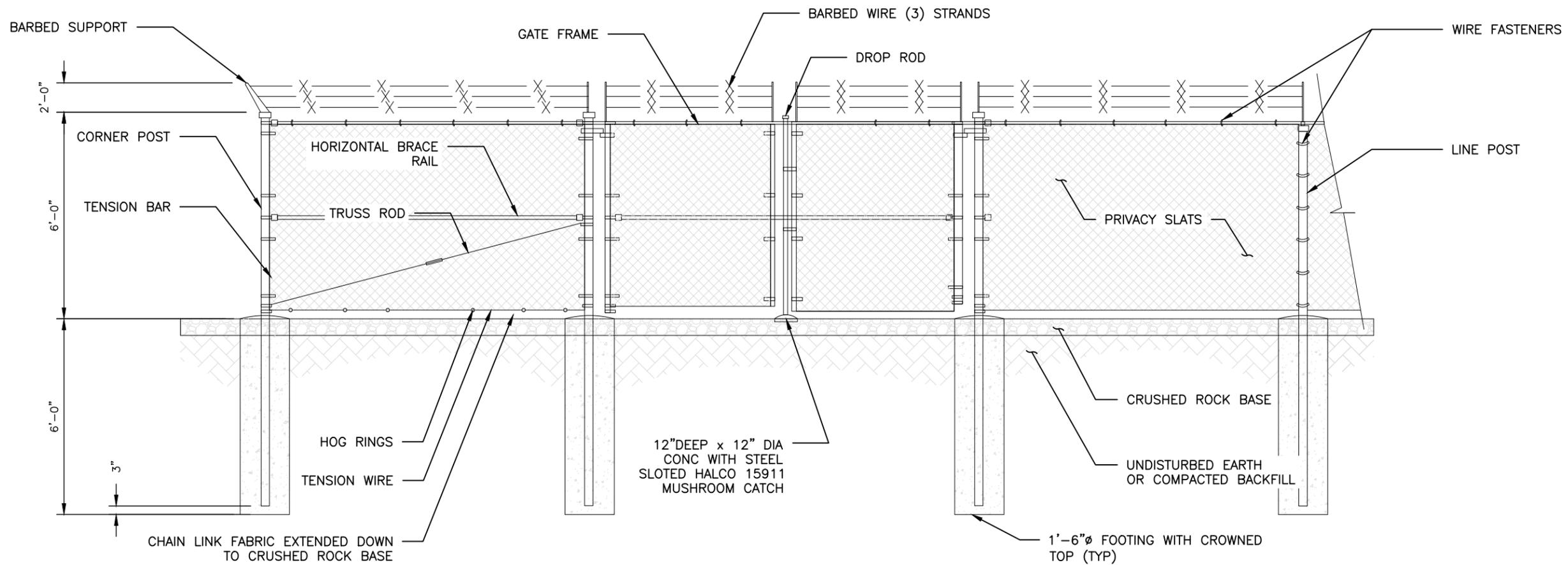
SITE ADDRESS:
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

DETAILS

SHEET NO.

D-11

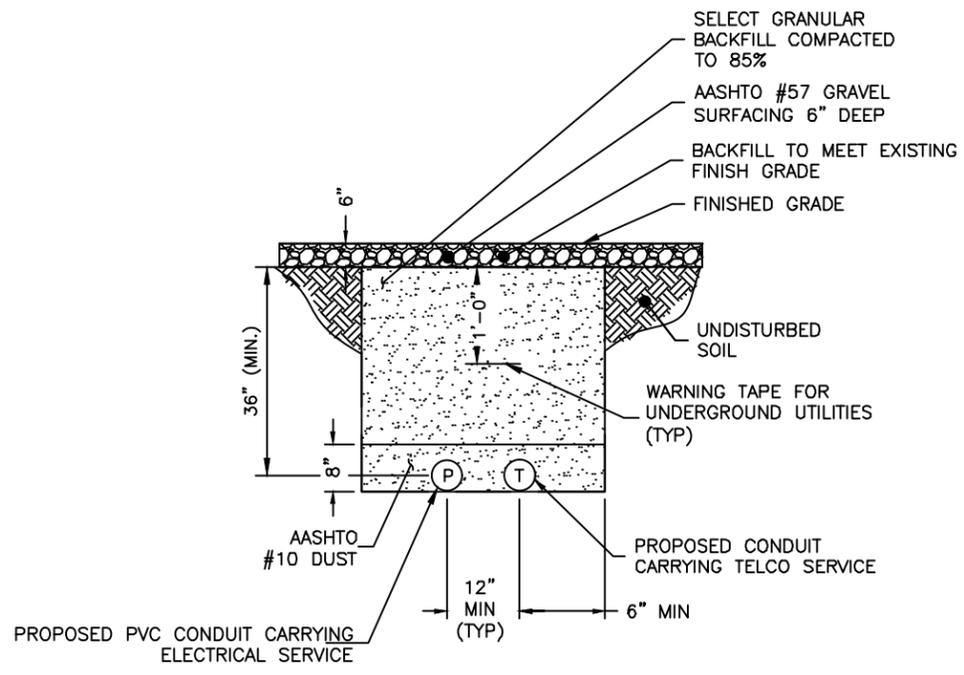


DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

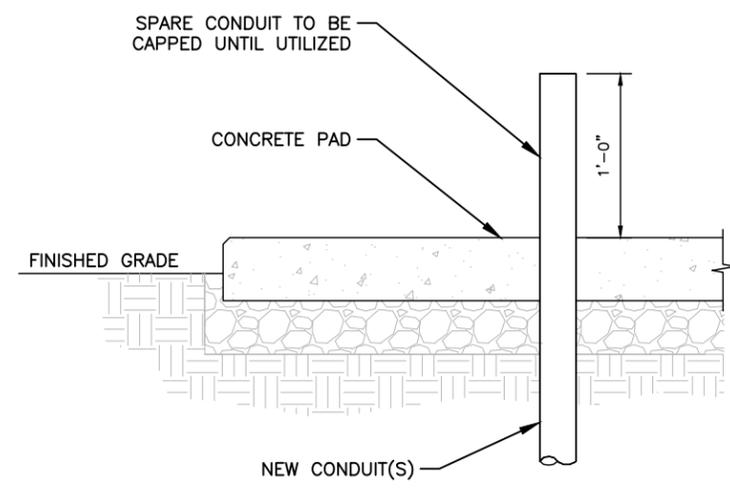
SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN

ICE BRIDGE DETAIL

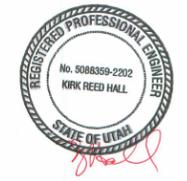
NOT TO SCALE 1



NOTE:
EXCAVATE EXISTING SUBGRADE AS REQUIRED TO INSTALL CONDUITS ACCORDING TO OSHA AND ALL APPLICABLE CODES.



NOTE:
ALL CONDUITS SHALL BE INSTALLED WITH PULL STRINGS



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C
 UTLO1221
 1300 S 5600 W
 FA#: 14431264
SITE ADDRESS:
 1550 SOUTH 5600 WEST,
 SALT LAKE CITY, UT 84104
 SALT LAKE COUNTY

SHEET DESCRIPTION

DETAILS

SHEET NO.

D-12

TYPICAL TRENCH DETAIL

NOT TO SCALE 2

CONDUIT PENETRATION DETAIL

NOT TO SCALE 3



161 INVERNESS DRIVE W, 2ND FLOOR
ENGLEWOOD, CO 80112



1997 ANNAPOLIS EXCHANGE PARKWAY,
SUITE 200
ANNAPOLIS, MD 21401



1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

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PRINTED MEDIA ONLY.

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REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

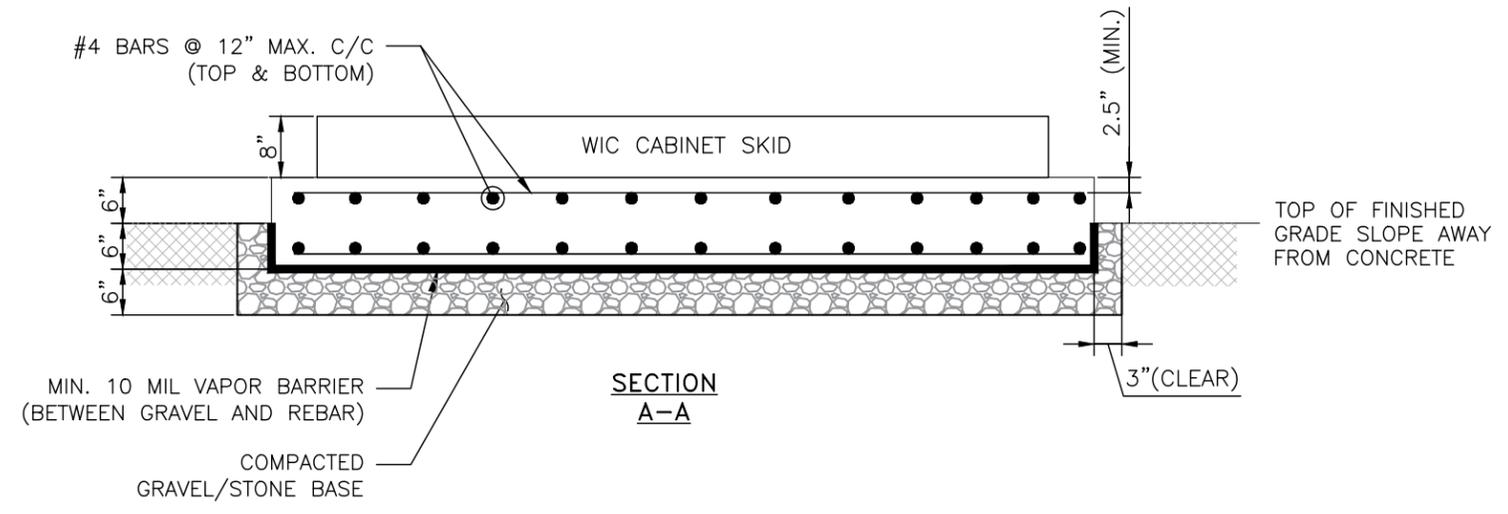
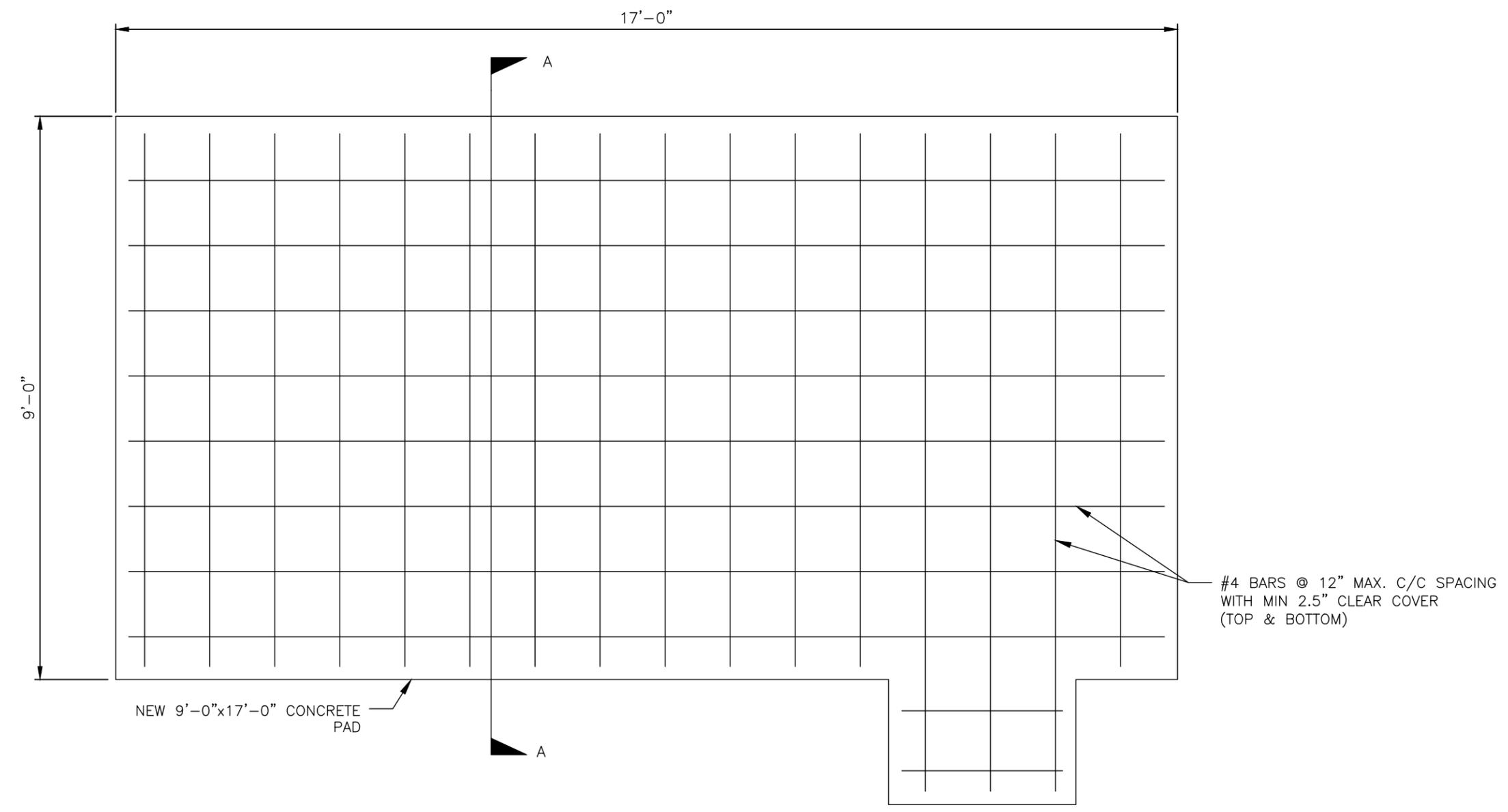
LTE 1C/2C/3C/4C/5C/6C
UTL01221
1300 S 5600 W
FA#: 14431264
SITE ADDRESS:
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

FOUNDATION DETAILS

SHEET NO.

D-13





WB-K410-B15
Safety Grated Waveguide Bridge Kit, 24 in x 10 ft, with four 15 ft 4 in direct burial posts

Product Classification

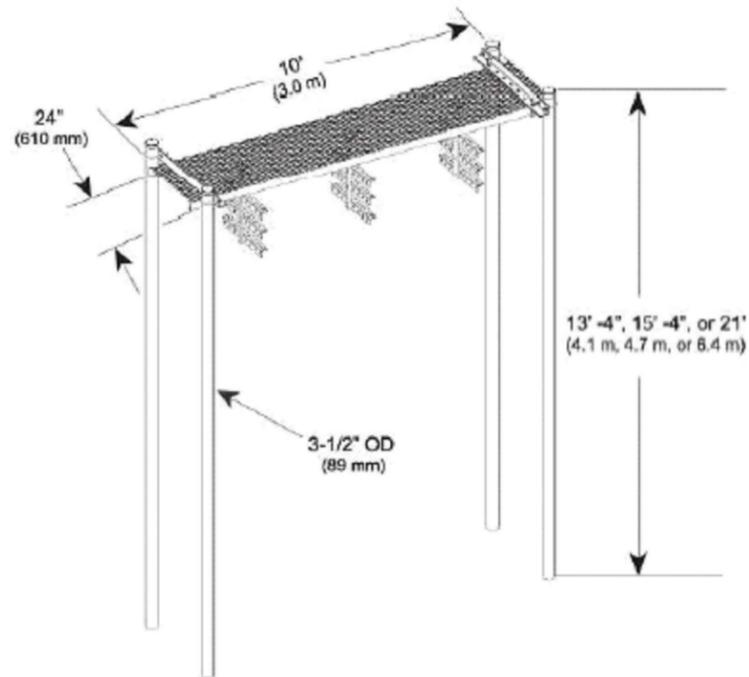
Product Type Waveguide bridge kit

Dimensions

Height 4572.0 mm | 180.0 in
Length 3.0 m | 10.0 ft
Weight 270.4 kg | 596.0 lb

General Specifications

Application Direct burial
Cable Runs, quantity 24
Includes Caps | Channel | Hardware | Posts | Support brackets | Trapeze
Material Type Hot dip galvanized steel
Package Quantity 1
Pipe Length 4.7 m | 15.3 ft
Pipe, quantity 4



MT-287
Wedge Anchor, 3/4 in x 7 in

Product Classification

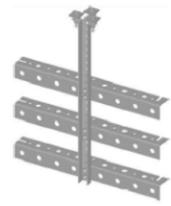
Product Type Anchor

Dimensions

Pipe Outer Diameter 19.1 mm | 3/4 in
Height 25.4 mm | 1.0 in
Length 177.8 mm | 7.0 in
Width 25.4 mm | 1.0 in

General Specifications

Material Type Plated steel
Includes Anchors
Package Quantity 1



WB-T24-3
Trapeze Kit, triple tee, 24 in wide, three rungs

Product Classification

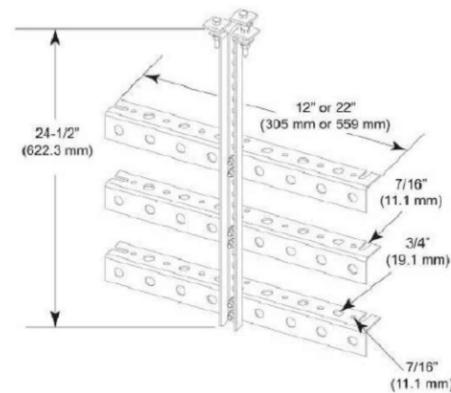
Product Type Trapeze kit

Dimensions

Width 609.6 mm | 24.0 in
Height 76.2 mm | 3.0 in
Length 635.0 mm | 25.0 in
Weight 5.9 kg | 13.0 lb

General Specifications

Application Waveguide bridge kit, 24 in
Cable Runs, quantity 24
Hole Size 3/4 in | 7/16 in
Hole, quantity 24
Includes Angle brackets | Mounting hardware
Material Type Hot dip galvanized steel
Mounting Waveguide bridge channel
Package Quantity 1
Rungs, quantity 3



WB-CY210
Safety Grated Waveguide Bridge Channel, 24 in x 10 ft

Product Classification

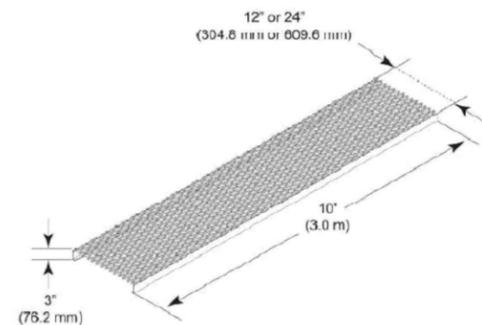
Product Type Waveguide bridge channel

Dimensions

Height 76.2 mm | 3.0 in
Length 3.0 m | 10.0 ft
Weight 50.4 kg | 111.0 lb

General Specifications

Application Waveguide bridge kit, 24 in
Includes Bridge channel
Material Type Hot dip galvanized steel
Package Quantity 1



MF-273
Direct Burial Pipe Column, 15 ft 4 in

Product Classification

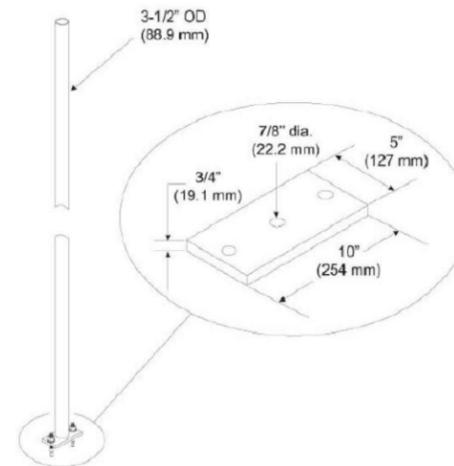
Product Type Pipe column

Dimensions

Height 4673.6 mm | 184.0 in
Length 88.9 mm | 3.5 in
Pipe Outer Diameter 88.9 mm | 3 1/2 in
Weight 52.6 kg | 116.0 lb

General Specifications

Application Direct burial
Includes Anchors | Pipe
Material Type Hot dip galvanized steel
Mounting Waveguide bridge support bracket
Package Quantity 1
Pipe Length 4.7 m | 15.3 ft
Pipe, quantity 1



WB-CS24-3
Safety Grated Channel Support, 24 in wide for 3-1/2 in OD pipe

Product Classification

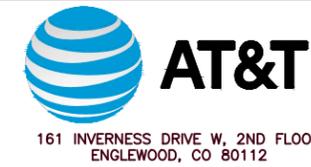
Product Type Support bracket

Dimensions

Height 101.6 mm | 4.0 in
Length 101.6 mm | 4.0 in
Weight 8.2 kg | 18.0 lb

General Specifications

Application Waveguide bridge kit, 24 in
Includes Channel support bracket | Hardware
Material Type Hot dip galvanized steel
Mounting Pipe, 88.9 mm (3-1/2 in) OD
Package Quantity 1



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

SUBMITTALS			
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A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
O	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

ICE BRIDGE DETAIL

SHEET NO.

D-14

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE
PRINTED MEDIA ONLY.

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
0	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

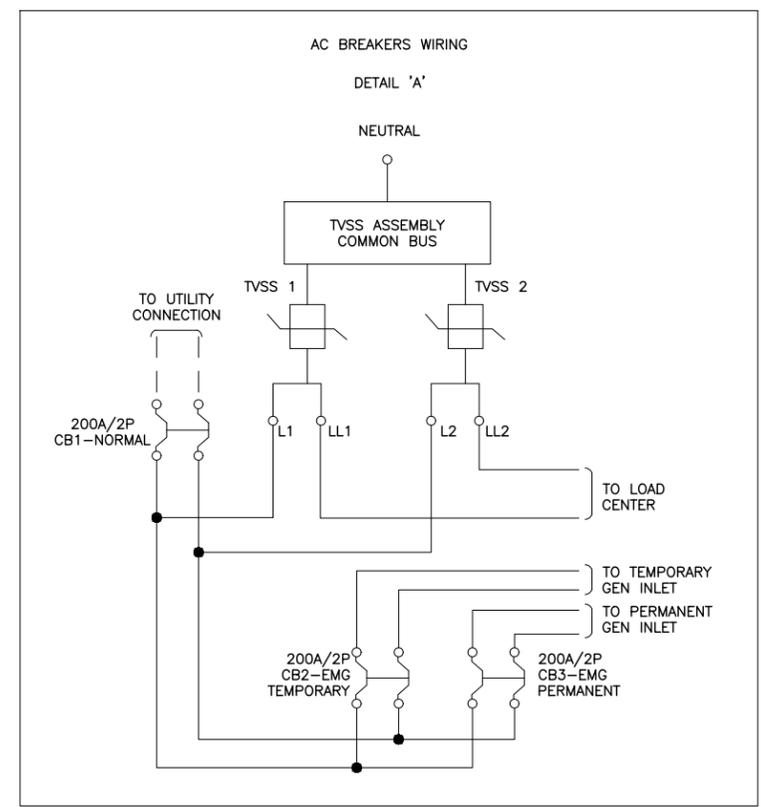
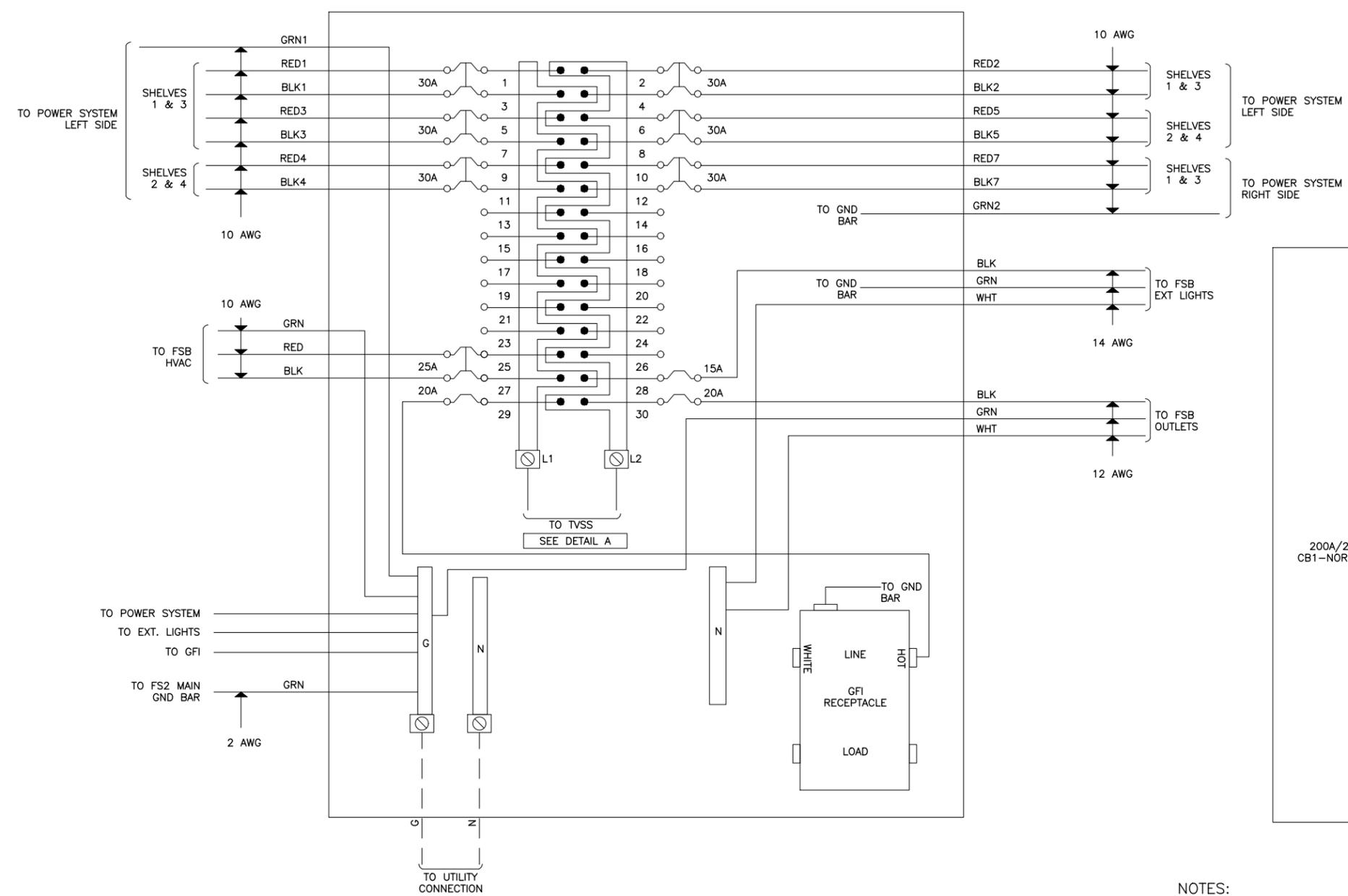
SHEET DESCRIPTION

SWIC PANEL SCHEDULE

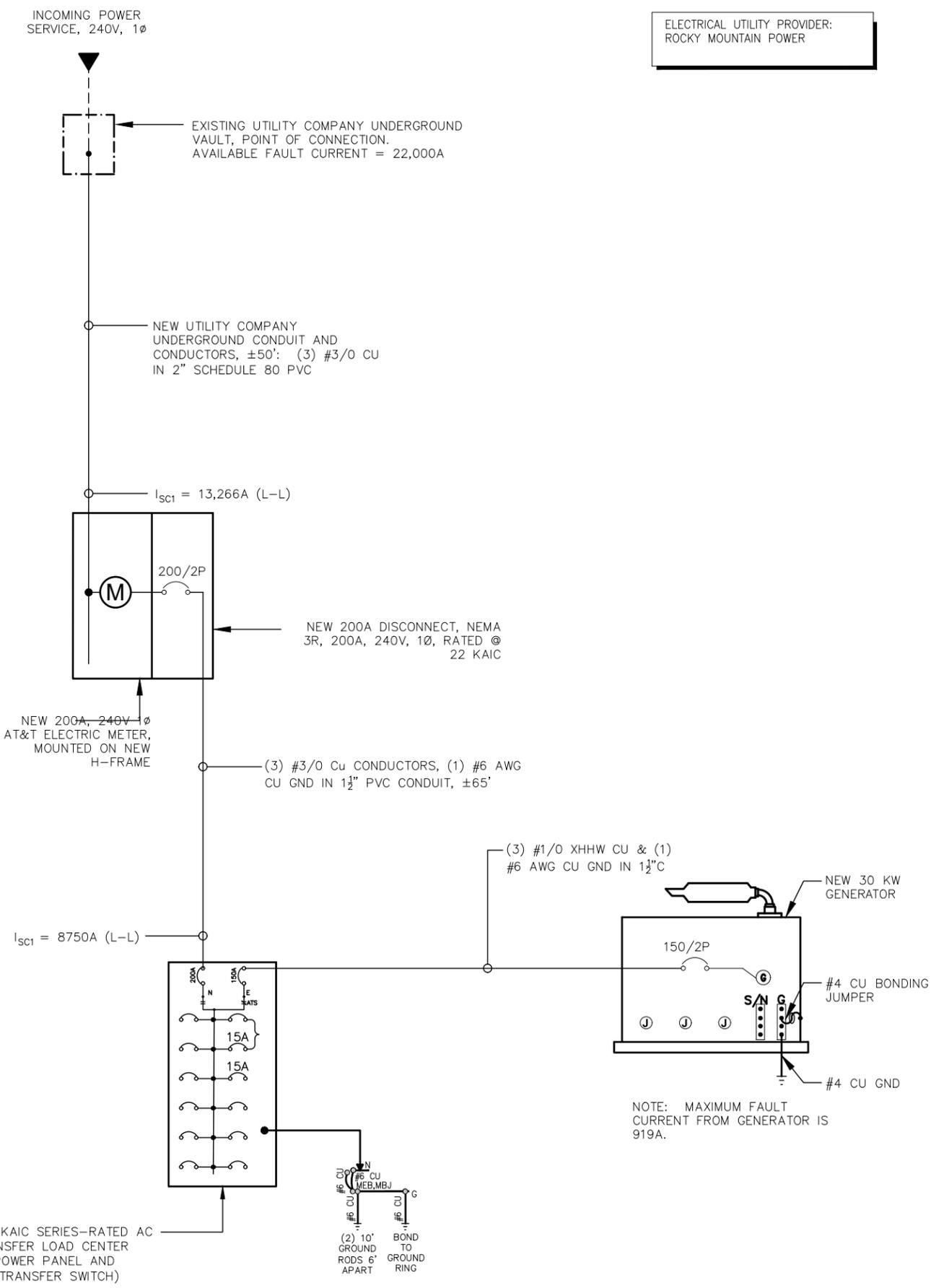
SHEET NO.

E-1

**AUTOMATIC TRANSFER SWITCH
(200A 1φ)**



- NOTES:**
- DO NOT SHARE NEUTRALS UNLESS OTHERWISE SPECIFIED.
 - WHEN AC & DC WIRING IS LOCATED IN THE SAME BOX, ENCLOSURE, OR WIREWAY, WIRES MUST BE LABELED WITH VOLTAGE TYPE.
 - DC VOLTAGE IS NEGATIVE FEED, CHANGE CONNECTION POINTS AT DEVICES SO THAT BLACK WIRES ARE CONNECTED TO POSITIVE(+) TERMINALS AND RED WIRES ARE CONNECTED TO NEGATIVE(-) TERMINALS.
 - ALL WIRES TO BE THHN TYPE RATED 90°C.
 - LABEL BREAKERS IN PTLC PANEL AS FOLLOWS:
(1) BREAKER "GEN BLOCK HTR & BATT WARMER"
(1) BREAKER "GEN BATT CHARGER"
 - LABEL EACH RECEPTACLE SAME AS IN PTLC PANEL.
 - OPTIONAL RECEPTACLE. USE ONLY WHEN REQUIRED.
 - ENSURE NEUTRAL & GROUND ARE NOT BONDED ON GENERATOR.



NOTES:

- 1) ALL CIRCUIT BREAKERS AND/OR FUSES SHALL BE SERIES RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT INDICATED. THE SERIES COMBINATION RATINGS SHALL BE MARKED ON THE EQUIPMENT BY THE MANUFACTURER IN ACCORDANCE WITH NEC ARTICLE 110.22 & 240.86.
- 2) PROVIDE WARNING LABELS PER N.E.C. 110.22 FOR BOTH THE PANEL AND MAIN DISCONNECT. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:
"CAUTION - SERIES COMBINATION SYSTEM RATED 22KAIC/10KAIC. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED".

UTL01221 / LANDMARK WEST											
AC POWER PANEL No. 001 (PROPOSED)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A): 200					SYSTEM VOLTAGE (V): 240						
DESCRIPTION	VA	ph/c	BKR	POSN	L1	L2	POSN	BKR	ph/c	VA	
EMERSON RECTIFIERS #1 & #2	2000	nc	30	1	2240	2	20	nc	240	EXTERIOR LIGHTS	
	2000	nc	30	3	2180	4	20	nc	180	EXTERIOR GFCI	
EMERSON RECTIFIERS #3 & #4	2000	nc	30	5	2250	6	20	nc	250	GENERATOR BTY CHARGER	
	2000	nc	30	7	3000	8	20	nc	1000	GENERATOR BLOCK HEATER	
EMERSON RECTIFIERS #5 & #6	2000	nc	30	9	2000	10				BLANK	
	2000	nc	30	11	2000	12				BLANK	
EMERSON RECTIFIERS #7 & #8	2000	nc	30	13	2000	14				BLANK	
	2000	nc	30	15	2000	16				BLANK	
FUTURE RECTIFIER (OFF)			30	17	0	18				BLANK	
				19	0	20				BLANK	
FUTURE RECTIFIER (OFF)			30	21	0	22				BLANK	
				23	0	24				BLANK	
BLANK				25	0	26				BLANK	
BLANK				27	0	28				BLANK	
BLANK				29	0	30				BLANK	
BLANK				31	0	32				BLANK	
BLANK				33	0	34				BLANK	
BLANK				35	0	36				BLANK	
BLANK				37	0	38				BLANK	
BLANK				39	0	40				BLANK	
BLANK				41	0	42				BLANK	
PHASE TOTALS (VA)					8490	9180					
CURRENT PER PHASE (A)					71	77	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA)					17670					Legend: c = continuous, nc = non-continuous	
PANEL CAPACITY (kVA)					48.0					CONNECTED LOAD (kVA): 17.7	
PANEL LOADING (100% non-cont. load) (kVA)					17.7						
PANEL LOADING (125% continuous load) (kVA)					0.0						
PANEL LOADING (TOTAL) (kVA)					17.7						
SPARE CAPACITY (kVA)					30.3						

PROPOSED AC PANEL SCHEDULE

AC LINE-LINE FAULT CURRENT CALCULATIONS	
NOTE: CALCULATIONS BASED UPON THE POINT-TO-POINT METHOD	
ENTER THE FOLLOWING INPUTS:	
AVAILABLE FAULT CURRENT, FROM GOVERNING UTILITY COMPANY (LEAVE BLANK IF UNKNOWN)	22000 AMPS
FAULT CURRENT AT TRANSFORMER	
SHORT CIRCUIT CURRENT RMS SYMMETRICAL	22000 AMPS
LINE-LINE FAULT CURRENT AT SECONDARY: $I_{SC(L-L)} = I_{L-L} / \text{TOTAL IMPEDANCE}$	22000 AMPS
LINE-NEUTRAL FAULT CURRENT AT SECONDARY: $I_{SC(L-N)} = I_{L-N} / \text{TOTAL IMPEDANCE}$	22000 AMPS
FAULT CURRENT AT DISCONNECT SWITCH / METER	
CABLE LENGTH FROM TRANSFORMER TO DISCONNECT ("L")	50 FEET
TYPE OF CABLE ("Cu" FOR COPPER, "Alu" FOR ALUMINUM)	Cu 1 CORE CABLE
SYSTEM VOLTAGE (LINE-LINE)	240 VOLTS
VOLTAGE SYSTEM, NUMBER OF PHASES	1
SYSTEM VOLTAGE (LINE-NEUTRAL)	120 VOLTS
NUMBER OF CONDUCTORS PER PHASE ("N")	1
CABLE SIZE, AWG	#3/0
PHASE CONDUCTOR CROSS-SECTIONAL AREA (CIRCULAR MILS)	167800
ENTER NEUTRAL CONDUCTOR CROSS-SECTIONAL AREA (CIRCULAR MILS), IF DIFFERENT FROM CONDUCTOR SIZE	167800
TYPE OF RACEWAY	NONMAGNETIC
PHASE CONDUCTOR CONSTANT ("C _p ")	13923
NEUTRAL CONDUCTOR CONSTANT ("C _n ")	13923
$F_{M(L-L)} = (2 \times L \times I_{SC(L-L)} / (C_p \times N \times V_{L-L}))$, SINGLE-PHASE OR $= (1.732 \times L \times I_{SC(L-L)} / (C_p \times N \times V_{L-L}))$, THREE-PHASE	0.6584
$F_{M(L-N)} = (2 \times L \times I_{SC(L-N)} / (C_p \times N \times V_{L-N}))$, SINGLE-PHASE OR $= (1.732 \times L \times I_{SC(L-N)} / (C_p \times N \times V_{L-N}))$, THREE-PHASE	1.3168
$M_{M(L-L)} = M_p = (1 / (1 + F_{M(L-L)}))$	0.6030
$M_{M(L-N)} = M_n = (1 / (1 + F_{M(L-N)}))$	0.4316
LINE-LINE FAULT CURRENT AT DISCONNECT SWITCH / METER: $[I_{SC(L-L)} \times M1]$	13266 AMPS
LINE-NEUTRAL FAULT CURRENT AT DISCONNECT SWITCH / METER: $[I_{SC(L-N)} \times M2]$	9496 AMPS
FAULT CURRENT AT NEW AC POWER PANEL	
CABLE LENGTH FROM DISCONNECT SWITCH / METER TO NEW AC POWER PANEL ("L")	65 FEET
TYPE OF CABLE ("Cu" FOR COPPER, "Alu" FOR ALUMINUM)	Cu 1 CORE CABLE
SYSTEM VOLTAGE (LINE-LINE)	240 VOLTS
VOLTAGE SYSTEM, NUMBER OF PHASES	1
SYSTEM VOLTAGE (LINE-NEUTRAL)	120 VOLTS
NUMBER OF CONDUCTORS PER PHASE ("N")	1
CABLE SIZE, AWG	#3/0
PHASE CONDUCTOR CROSS-SECTIONAL AREA (CIRCULAR MILS)	167800
TYPE OF RACEWAY	NONMAGNETIC
PHASE CONDUCTOR CONSTANT ("C _p ")	13923
NEUTRAL CONDUCTOR CONSTANT ("C _n ")	13923
$F_{M(L-L)} = (2 \times L \times I_{SC(L-L)} / (C_p \times N \times V_{L-L}))$, SINGLE-PHASE OR $= (1.732 \times L \times I_{SC(L-L)} / (C_p \times N \times V_{L-L}))$, THREE-PHASE	0.5161
$F_{M(L-N)} = (2 \times L \times I_{SC(L-N)} / (C_p \times N \times V_{L-N}))$, SINGLE-PHASE OR $= (1.732 \times L \times I_{SC(L-N)} / (C_p \times N \times V_{L-N}))$, THREE-PHASE	0.7389
$M_{M(L-L)} = M_p = (1 / (1 + F_{M(L-L)}))$	0.6596
$M_{M(L-N)} = M_n = (1 / (1 + F_{M(L-N)}))$	0.5751
LINE-LINE FAULT CURRENT AT NEW AC POWER PANEL: $[I_{SC(L-L)} \times M1]$	8750 AMPS
LINE-NEUTRAL FAULT CURRENT AT NEW AC POWER PANEL: $[I_{SC(L-N)} \times M2]$	5461 AMPS

NOTE: MAXIMUM FAULT CURRENT FROM GENERATOR IS 919A.



DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE PRINTED MEDIA ONLY.

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A	08/02/19	90% CD	SKS
B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
D	01/21/20	100% CD	PTN



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

SINGLE LINE DIAGRAM AND FAULT CALCULATIONS

SHEET NO.

E-2



161 INVERNESS DRIVE W, 2ND FLOOR
ENGLEWOOD, CO 80112



1997 ANNAPOLIS EXCHANGE PARKWAY,
SUITE 200
ANNAPOLIS, MD 21401



1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038
1-855-669-5421

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1-21-2020

SITE INFORMATION

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UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:

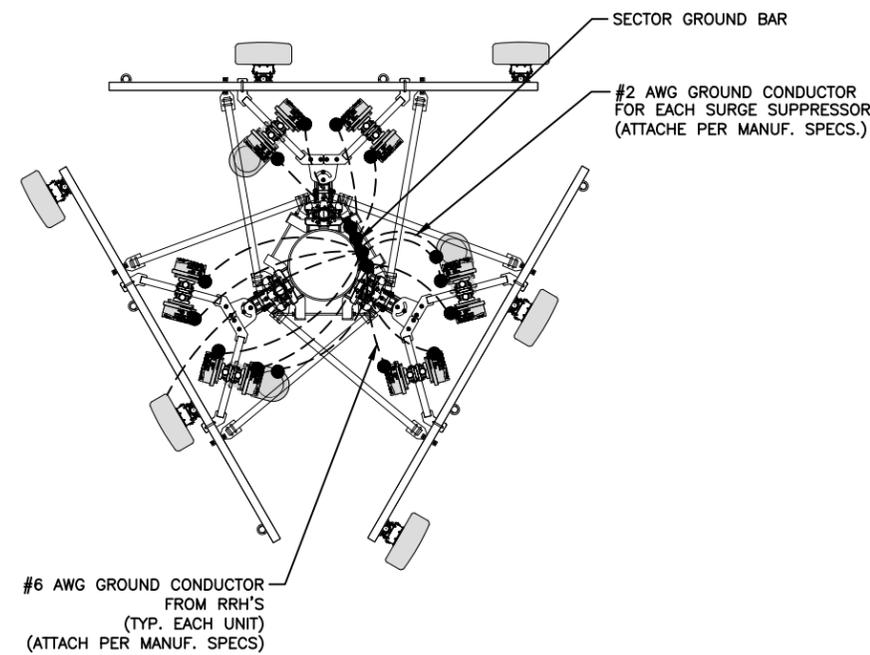
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

SHEET DESCRIPTION

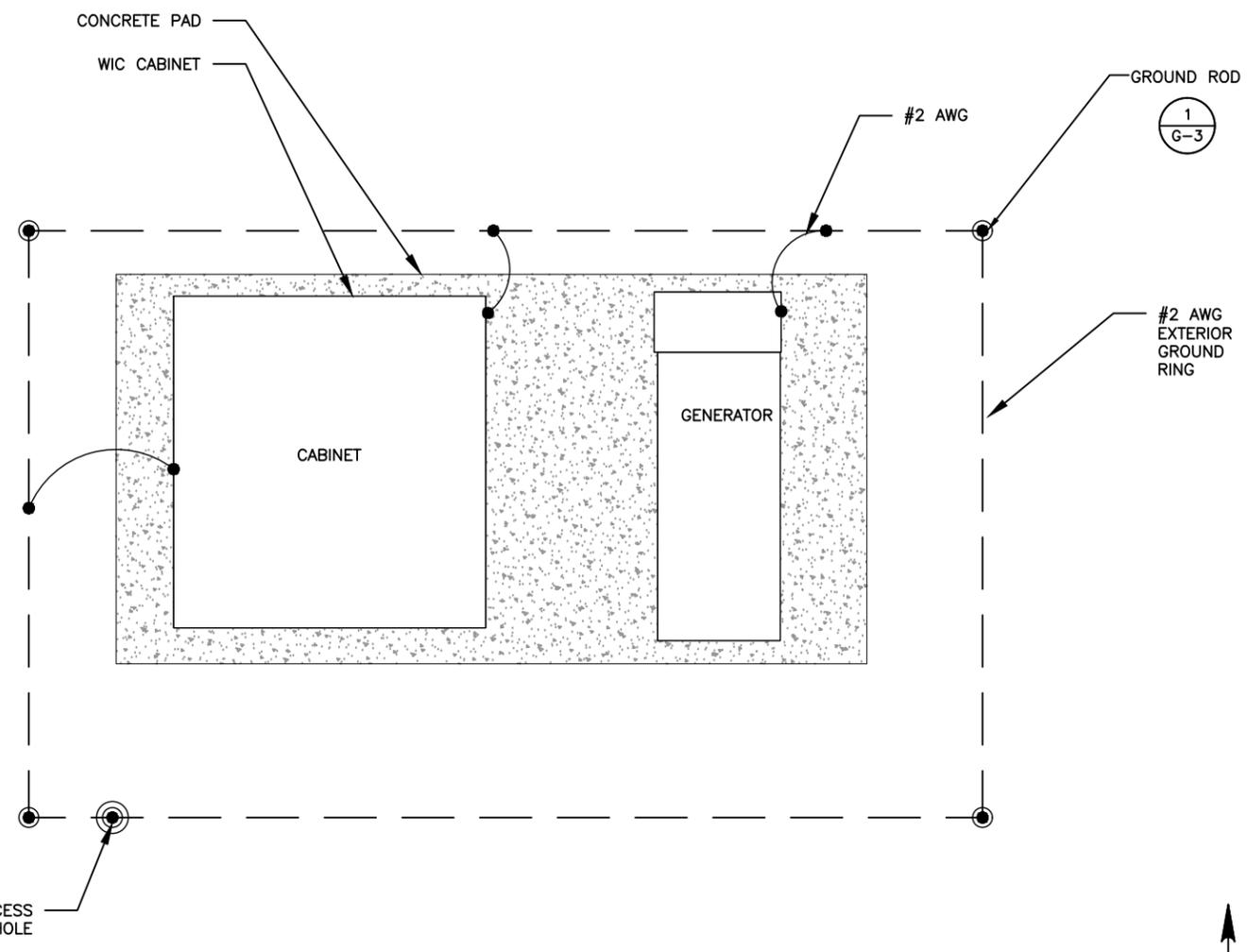
GROUNDING PLAN

SHEET NO.

G-1



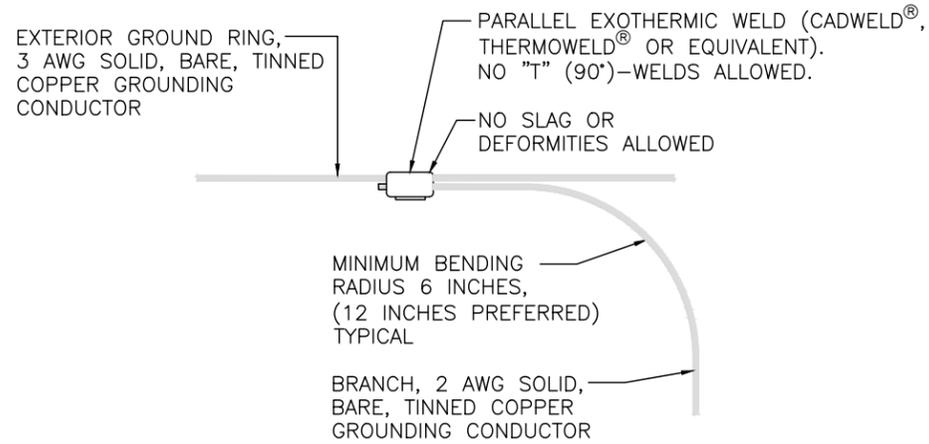
GROUNDING LEGEND	
●	MECHANICAL CONNECTION
■	EXOTHERMIC CONNECTION
—	SECTOR GROUND BAR
- - -	GROUND WIRE



NOTES:

- 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.
- 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 AND 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.
- ANY EQUIPMENT, BOX, SKID TO BE GROUNDED AND DOES NOT HAVE A DESIGNATED GROUND CONNECTION SHALL BE DRILLED AS NECESSARY TO CONNECT A GROUND WIRE. REMOVE PAINT IN AREA UNDER LUG. APPLY ANTI-OXIDANT COMPOUND AND CONNECT WITH TWO-HOLE, COMPRESSION LUG.
- GROUND BARS SHALL BE TINNED COPPER AND SHALL BE ENGRAVED OR IMPRESSED "STOLEN-DO NOT RECYCLE" AND/OR "PROPERTY OF AT&T", ETCHED OR STAMPED WITH SITE FA LOCATION AND SECURED WITH ANTI-THEFT HARDWARE.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING FOR GROUND ELECTRODE SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH IEEE STD 81.
- THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURIED LENGTH OF THE ROD. IDEALLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO OR LESS THAN TWICE THE BURIED LENGTH OF THE RODS.
- 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.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- EACH INTERIOR COMMUNICATION CABINET FRAME/PLINTH SHALL BE ELECTRICALLY ISOLATED FROM GROUNDS AND SHALL BE DIRECTLY CONNECTED TO THE CELL REFERENCE GROUND BAR WITH 6 AWG OR LARGER STRANDED, GREEN INSULATED GROUND WIRES.
- GROUND WIRING INSTALLED OUTDOOR EXPOSED SHALL BE 600V, GREEN SUNLIGHT RESISTANT UL LISTED TYPE THW OR THWN OR XHHW, ANNEALED, TINNED, OR UN-TUNNED CLASS B OR CLASS I STRANDED COPPER, SIZE 6 UNLESS OTHERWISE SPECIFIED.
- GROUND RODS SHOULD BE SPACED AT APPROXIMATELY TWICE THEIR LENGTH AS PER ATT-TP-76416 SPECIFICATIONS.





TYPICAL EXTERIOR GROUND RING CONNECTION

NOT TO SCALE

1

GROUND BAR

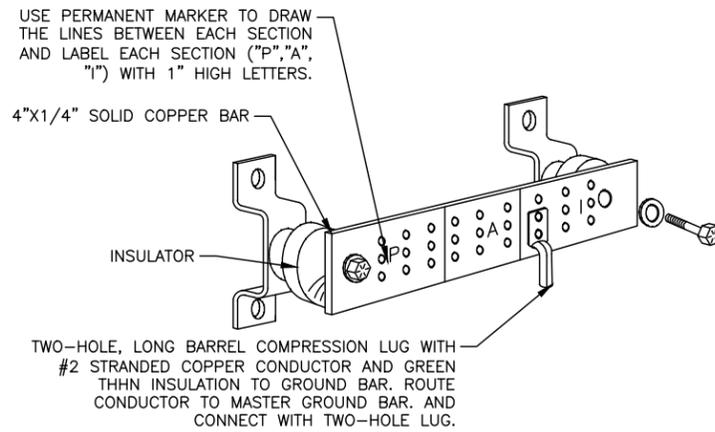
NOT TO SCALE

2

SECTOR GROUND BAR

NOT TO SCALE

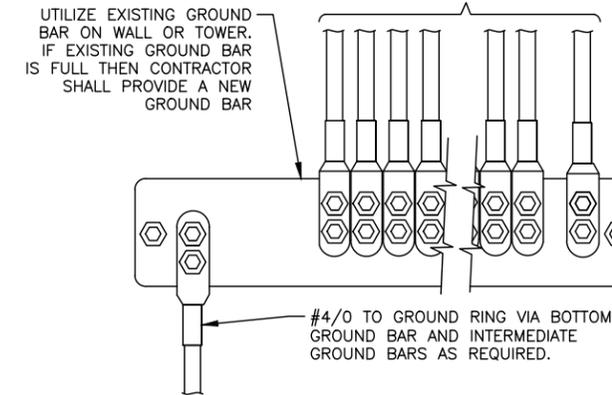
3



EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

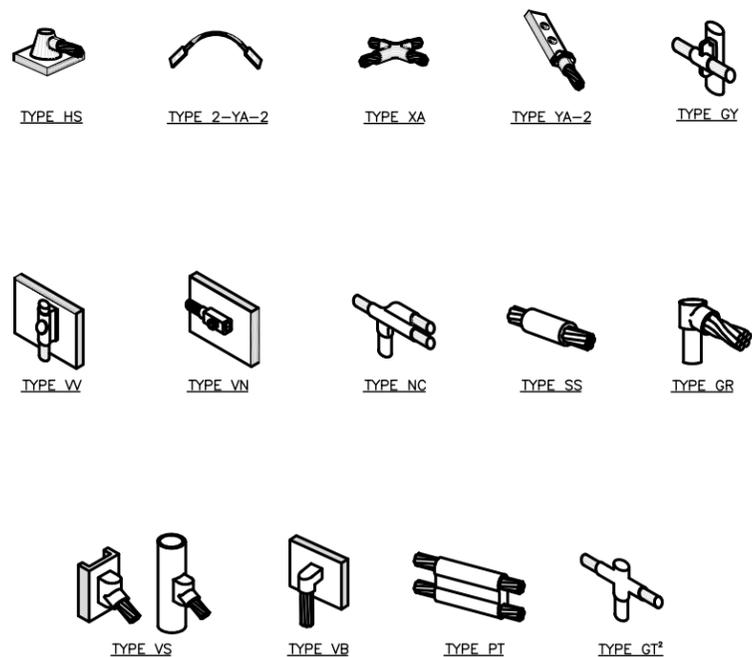
SECTION "P" - SURGE PRODUCERS

- CABLE ENTRY PORTS (HATCH PLATES)
- GENERATOR FRAMEWORK (IF AVAILABLE)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND
- +24V POWER SUPPLY RETURN BAR (#2)
- 48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES



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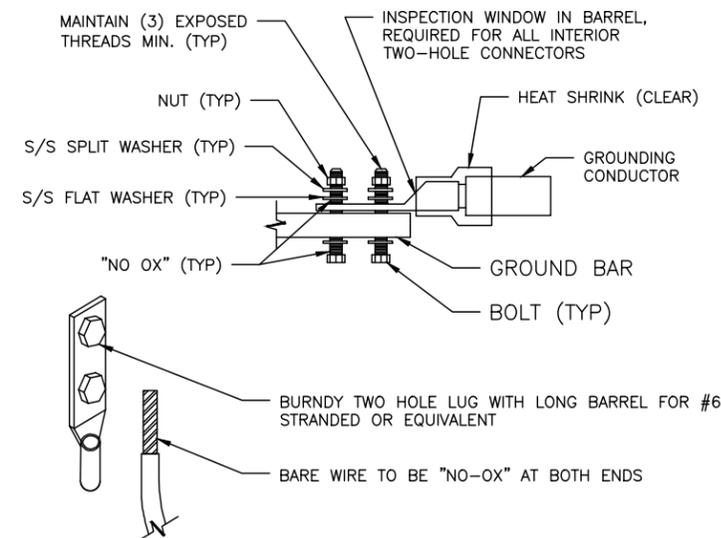


NOTE:
1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

CADWELD GROUNDING CONNECTIONS

NOT TO SCALE

4

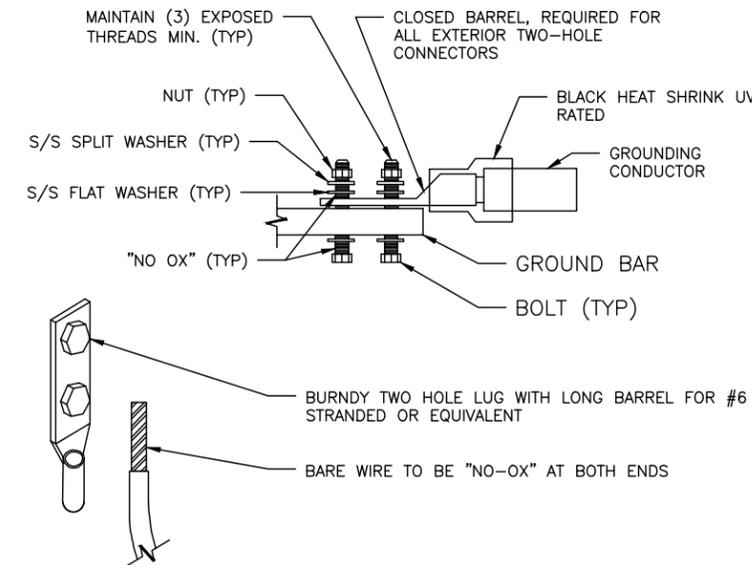


- NOTES:
- ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
 - COAT ALL SURFACES WITH ANTIOXIDANT COMPOUND BEFORE MATING.
 - ALL EXPOSED EASILY ACCESSIBLE GROUND BARS SHALL BE TAGGED "DO NOT DISCONNECT".
 - COAT ALL BARRELS WITH ANTIOXIDANT BEFORE CRIMPING.

INTERIOR GROUND BAR LUG

NOT TO SCALE

5



- NOTES:
- ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
 - COAT ALL SURFACES WITH ANTIOXIDANT COMPOUND BEFORE MATING.
 - ALL EXPOSED EASILY ACCESSIBLE GROUND BARS SHALL BE TAGGED "DO NOT DISCONNECT".
 - COAT ALL BARRELS WITH ANTIOXIDANT BEFORE CRIMPING.

EXTERIOR GROUND BAR LUG

NOT TO SCALE

6



1-21-2020

SITE INFORMATION

LTE 1C/2C/3C/4C/5C/6C

UTL01221

1300 S 5600 W

FA#: 14431264

SITE ADDRESS:
1550 SOUTH 5600 WEST,
SALT LAKE CITY, UT 84104
SALT LAKE COUNTY

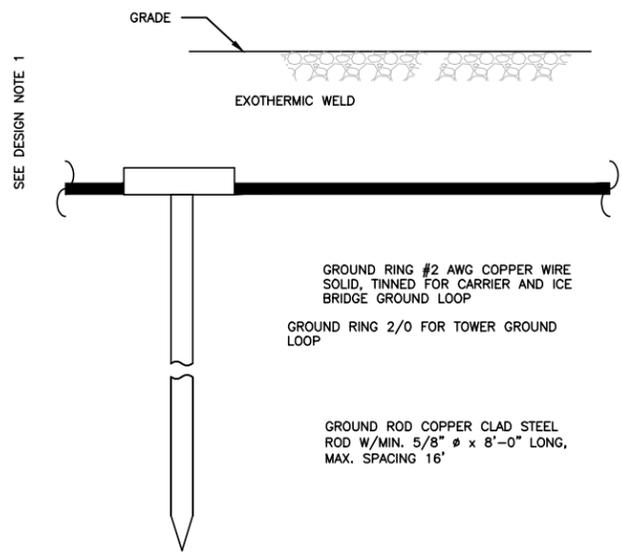
SHEET DESCRIPTION

GROUNDING DETAILS

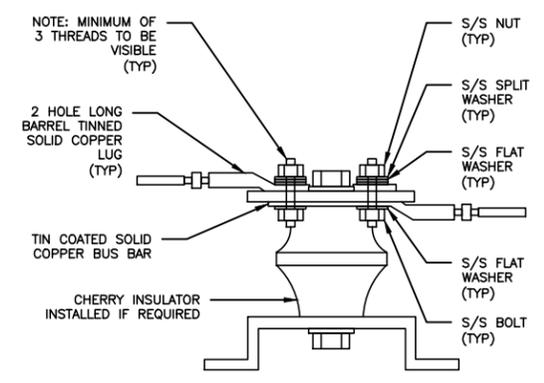
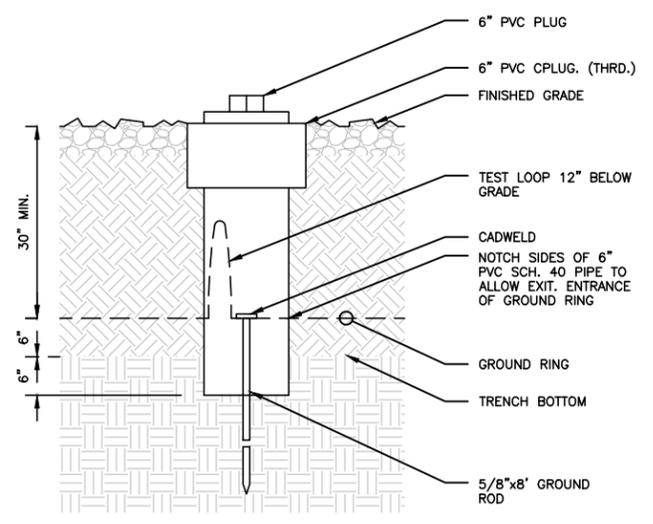
SHEET NO.

G-2

SUBMITTALS			
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B	01/09/20	90% CD	SKS
C	01/16/20	90% CD	PTN
O	01/21/20	100% CD	PTN

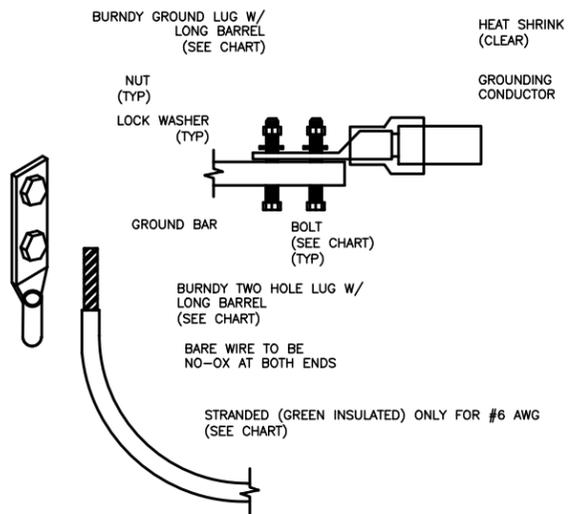


- NOTES:
- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
 - GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

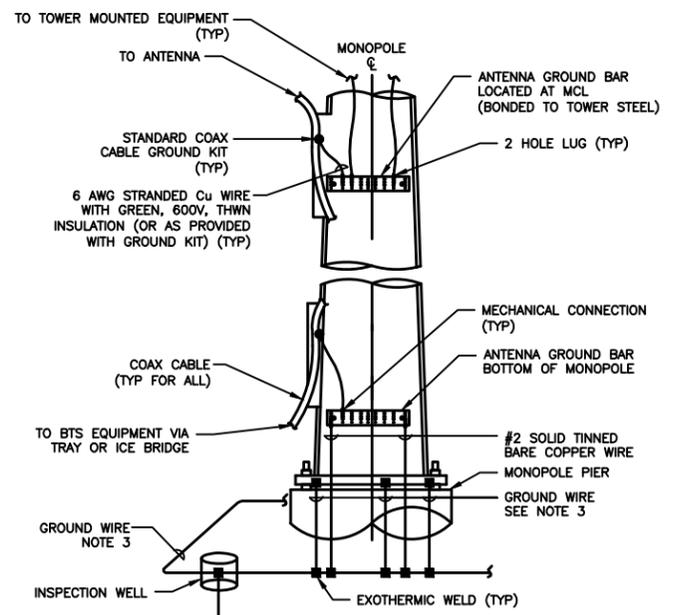


GROUND ROD NOT TO SCALE 1 GROUND ROD WITH TEST WELL NOT TO SCALE 2 LUG DETAIL NOT TO SCALE 3

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



- NOTES:
- ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.



- NOTES:
- NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF MONOPOLE, ANTENNA LOCATION AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET IN/ON THE POLE SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
 - ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
 - ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222 AND NFPA 780. FOR TOWERS BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE 2/0 AWG. STRANDED IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 8 FEET TO 10 FEET.

MECHANICAL LUG CONNECTION NOT TO SCALE 4 TYPICAL ANTENNA CABLE GROUNDING NOT TO SCALE 5 NOT USED NOT TO SCALE 6



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SALT LAKE COUNTY

SHEET DESCRIPTION

GROUNDING DETAILS

SHEET NO.

G-3