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T--Mobile--

T-MOBILE SITE NUMBER:

SL07007A

T-MOBILE SITE NAME:

SL07007A

CCI SITE#:

845638

SITE ADDRESS:

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

APPROVAL SIGNATURE BLOCK

THE FOLLOWING PARTIES HAVE REVIEWED THESE DOCUMENTS:

SITE ACQUISITION SPECIALIST:	APPROVED: REJECTED:	DATE:
RF ENGINEER:	APPROVED: REJECTED:	DATE:
CONSTRUCTION MANAGER:	APPROVED: REJECTED:	DATE:
OPERATIONS:	APPROVED: REJECTED:	DATE:
PROJECT MANAGER:	APPROVED: REJECTED:	DATE:

DRAWINGS ARE NO LONGER TO BE "APPROVED WITH COMMENTS" - IF YOU HAVE ANY REDLINES TO THESE DRAWINGS THEN YOU MUST SELECT REJECTED.

I - Mobile - -

T-MOBILE SITE NUMBER:

T-MOBILE SITE NAME:

SITE TYPE:

TOWER HEIGHT:

SL07007A

SL07007A

MONOPOLE

TITLE SHEET

61.0 FT

SHEET #

CROWN CASTLE BU #: 845638

SITE ADDRESS:

COUNTY:

Rose Park Park Elementary School

JURISDICTION:

745 N WARM SPRINGS ROAD

SALT LAKE CITY, UT 84116 SALT LAKE

CITY OF SALT LAKE CITY

Tesoro Gateway Pa

NO SCALE

T-MOBILE 2018 NSD LAT: 40° 47' 6.74", LONG: -111° 54' 41.20"

SITE INFORMATION

SALT LAKE

EXISTING

NAD83

4,225 FT

08-26-479-004-000

SALT LAKE CITY, UT 84116

40° 47' 6.74"/40.7852300000°

CITY OF SALT LAKE CITY

FACILITY IS UNMANNED AND NOT FOR

-111° 54′ 41.20″/-111.9114900000°

CROWN CASTLE USA INC. SITE NAME:

SITE ADDRESS: 745 N WARM SPRINGS ROAD

COUNTY: MAP/PARCEL#:

AREA OF CONSTRUCTION:

LATITUDE: LONGITUDE: LAT/LONG TYPE:

GROUND ELEVATION: **CURRENT ZONING:**

JURISDICTION: OCCUPANCY CLASSIFICATION: U

TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE:

A&E FIRM:

CROWN CASTLE

CONTACTS:

MOWER LEASING COMPANY LLC PROPERTY OWNER: 3310 E TWIN PEAKS DRIVE

LAYTON, UT 84040

HUMAN HABITATION

TOWER OWNER: CROWN CASTLE, USA 2000 CORPORATE DRIVE

CANONSBURG, PA 15317

T-MOBILE CARRIER/APPLICANT:

> 12920 SE 38TH STREET BELLEVUE, WA 98006

ELECTRIC PROVIDER: PACIFICORP

(888) 221-7070

PROJECT TEAM

11490 BLUEGRASS PARKWAY

1505 WESTLAKE AVE N, STE 800

KELSEY PUHALLA - PROJECT MANAGER

JEFFERY LEE - CONSTRUCTION MANAGER

MACKENZIE.KEYS2@T-MOBILE.COM

LOUISVILLE, KY 40299

SEATTLE, WA 98109

(206) 336-2874

(801) 347-6768

T-MOBILE CONTACTS: MACKENZIE KEYS -

(502) 437-5252

TELCO PROVIDER: AT&T MOBILITY (800) 331-0500

POD

DRAWING INDEX SHEET DESCRIPTION

T-2	GENERAL NOTES
Т-3	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	FINAL SITE PLAN
C-2	EQUIPMENT PLAN & DIMENSION PLAN
C-3	TOWER ELEVATIONS
C-4	ANTENNA PLAN
C-5	EQUIPMENT DETAILS
C-6	EQUIPMENT DETAILS
C-7	CONCRETE PAD DETAILS
C-8	MOUNT SPECIFICATION
C-9	GENERATOR DETAILS
E-1	ELECTRICAL PLAN
E-2	ELECTRICAL SPECIFICATIONS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL RIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

EQUIPMENT AND ANTENNA GROUNDING PLAN

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.

GROUNDING DETAILS

OWER SCOPE OF WORK:

- INSTALL (9) PANEL ANTENNAS
- INSTALL (9) RRUs
- INSTALL (3) HYBRID CABLE LINES
- INSTALL (3) NEW T-ARM MOUNTS • INSTALL (1) 20' TOWER EXTENSION

GROUND SCOPE OF WORK:

- INSTALLATION OF NEW 11'x13' CONCRETE EQUIPMENT PAD & GENERATOR WITHIN A NEW 11'x13' LEASE AREA WITHIN THE EXISTING FENCED COMPOUND
- INSTALL NEW 10' WIDE ROLLING GATE
- INSTALL (1) 6160 SSC CABINET
- INSTALL (1) B160 BATTERY CABINET
- INSTALL (1) DUG 20
- INSTALL (4) BB 6630 • INSTALL (1) RBS6601
- INSTALL (1) VOLTAGE BOOSTER (PSU 4813)

DESIGN PACKAGE BASED ON THE RFDS

REVISION: 1 DATE: 11/2/2020

DESIGN PACKAGE BASED ON THE APPLICATION

ID: 456325 **REVISION:** 0

LOCATION MAP

DRIVING DIRECTIONS FROM T-MOBILE LOCAL OFFICE (121 W. ELECTION RD. DRAPER, UT 84020): HEAD WEST TOWARD S ELECTION RD TURN RIGHT TOWARD S ELECTION RD TURN LEFT ONTO S ELECTION RD TURN RIGHT ONTO LONE PEAK PKWY TURN RIGHT ONTO UT-175/W 11400 S USE THE LEFT 2 LANES TO TAKE THE INTERSTATE 15 N RAMP MERGE ONTO I-15 N TAKE EXIT 309 TOWARD 600 NO. E MERGE ONTO 600 N TURN RIGHT ONTO N 400 W TURN RIGHT AT THE 2ND CROSS STREET ONTO 400 N TURN RIGHT ONTO N 600 W N 600 W TURNS RIGHT AND BECOMES I- 15 FRONTAGE RD/WARM SPRINGS RD CONTINUE TO FOLLOW WARM SPRINGS RD DESTINATION WILL BE ON THE RIGHT

APPLICABLE CODES/REFERENCE **DOCUMENTS**

ALL WORK SHALL BE PERFORMED AND MATERIALS 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:

2017 NEC

CODE TYPE 2015 IBC BUILDING 2015 IMC **MECHANICAL**

REFERENCE DOCUMENTS:

ELECTRICAL

STRUCTURAL ANALYSIS: B+T GROUP

DATED NOVEMBER 05, 2018

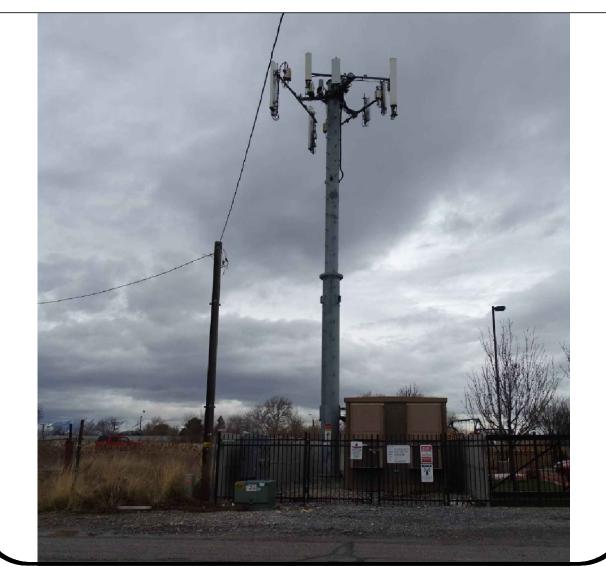
MOUNT ANALYSIS: BY OTHERS



CALL UTAH ONE CALL CALL 3 WORKING DAYS BEFORE YOU DIG!



SITE PHOTO



CROWN SEATTLE, WA 98109



T-MOBILE SITE NUMBER: **SL07007A**

> BU #: **845638 ROSE PARK**

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

EXISTING 61.0 FT MONOPOLE

	ISSUED FOR:					
REV	DATE	DRWN	DESCRIPTION	DES./QA		
0	12-18-2018	JAS	FINAL	ELG		
1	01-28-2019	JAS	FINAL	ELG		
2	04-09-2019	JAS	FINAL	ELG		
3	05-07-2019	JAS	FINAL	ELG		
4	07-17-2019	JAS	FINAL	ELG		
5	12-22-2020	AK	FINAL	MEP		
6	12/23/2020	MAJ	FINAL	MEP		
7	01/05/2021	СРТ	FINAL	MEP		
8	01/11/2021	СРТ	FINAL	MEP		



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

CROWN CASTLE SITE WORK GENERAL NOTES:

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. 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 WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
- ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR **EMBANKMENT**
- 10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 11. THE AREAS OF THE OWNERS 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 AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
- 12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- 13. NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
- 14. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA 1019 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-1019 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

ABBREVIATIONS AND SYMBOLS:

SYMBOLS:

→S/G ← SOLID GROUND BUS BAR

→S/N → SOLID NEUTRAL BUS BAR

___ SUPPLEMENTAL GROUND

CIRCUIT BREAKER

CHEMICAL GROUND ROD

☐ DISCONNECT SWITCH

• 2-POLE THERMAL-MAGNETIC

SINGLE-POLE THERMAL-MAGNETIC

EXOTHERMIC WELD (CADWELD)

(UNLESS OTHERWISE NOTED)

MECHANICAL CONNECTION

—— | GROUNDING WIRE |

CONDUCTOR

CIRCUIT BREAKER

METER

ABBREVIATIONS: ABOVE GRADE LEVEL BASE TRANSCEIVER STATION EXISTING

MINIMUM REFERENCE

RADIO FREQUENCY TO BE DETERMINED TO BE RESOLVED T.B.R.

TYPICAL REQUIRED

EQUIPMENT GROUND RING EGR AMERICAN WIRE GAUGE AWG

EQUIPMENT GROUND BARE COPPER WIRE BCW

SMART INTEGRATED ACCESS DEVICE SIAD GENERATOR GEN

MASTER GROUND BAR

RBS RADIO BASE STATION

INTERIOR GROUND RING (HALO)

FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR-

GENERAL NOTES:

SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) CARRIER-T-MOBILE

TOWER OWNER-CROWN CASTLE

OEM-ORIGINAL EQUIPMENT MANUFACTURER

- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND CROWN CASTLE.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS. ORDINANCES. RULES. REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK, ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN
- 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E. HOTS), GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
- . PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
-). ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP
- IO. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE
- 1. SUPPLEMENTAL EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET & DRY) OPERATION LISTED OR LABELET FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- 2. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
- 13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP—STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- 4. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- 5. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- 6. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC TUBING (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOW/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- 21. WIREWAYS SHALL BE EPOXY—COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1
- 22. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- 23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
- 24. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 25. NONMETAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- 28. INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "T-MOBILE".
- 29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE. BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 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 CIRCUIT TO BTS EQUIPMENT.
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- O. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- 11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- 13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- 14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- 15. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- . MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 18. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- 19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTING 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., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- 20. ALL GROUND THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

NEC INSULATOR COLOR CODE

DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR	
240/120 14	LEG 1	BLACK	
240/120 1ø	LEG 2	RED	
AC NEUTRAL	N	WHITE	
GROUND (ECG)	G	GREEN	
VCD POS	+	*RED-POLARITY MARK AT TERMINATION	
VCD NEG	_	*BLACK-POLARITY MARK AT TERMINATION	
	D11405	SLAGI	
	PHASE A	BLACK	
240V OR 208V, 3ø	PHASE B	RED (ORG. IF HI LEG)	
	PHASE C	BLUE	
	PHASE A	BROWN	
480V, 3ø	PHASE B	ORANGE	
	PHASE C	YELLOW	

*SEE NEC 210.5(C)(1) AND (2)







T-MOBILE SITE NUMBER: **SL07007A**

> BU #: **845638 ROSE PARK**

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

EXISTING 61.0 FT MONOPOLE

ISSUED FOR: DRWN DES./Q. DATE DESCRIPTION 12-18-2018 ELG 01-28-2019 ELG 04-09-2019 JAS FINAI ELG 05-07-2019 JAS FINAL

FINAL

FINAL

FINAL

FINAL

FINAL

ELG

MEP

MEP

MEP

MEP

07-17-2019 JAS

12-22-2020 AK

12/23/2020 MAJ

01/05/2021 CPT

01/11/2021 | CPT



01/11/2021

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SHEET NUMBER:

DigiSigner Document ID: 03d28eba-70ed-470e-ad5d-67076f64f861

A. GENERAL REQUIREMENTS

THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF FINISHED STRUCTURE ONLY.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED— CONTACT ENGINEER.

WHERE THE PROJECT INVOLVES THE STRUCTURAL SUPPORT OF NEW CONSTRUCTION BY EXISTING STRUCTURES OR REQUIRES THE PLACEMENT OF NEW STRUCTURES IN CLOSE PROXIMITY TO EXISTING STRUCTURES SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND PLACEMENT OF STRUCTURAL ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE DRAWINGS PRIOR TO THE FABRICATION OF ANY NEW STRUCTURE. IF IT IS DETERMINED THAT THERE DISCREPANCIES AND/OR CONFLICTS WITH THE DRAWINGS, THE ENGINEER IS TO BE NOTIFIED AS SOON AS POSSIBLE.

B. <u>BASIS FOR DESIGN</u>

BUILDING RISK CATEGORY......II

ENGINEERING DESIGN

	TION ANCE FACTOR (ASCE 7 / TABLE 1.5-2)	
	CATEGORY	
MAPPED SPECTR	RAL RESPONSE ACCELERATIONS:	
S.S		1.407
S1		0.498
SPECTRAL RESP	ONSE COEFFICIENTS:	
SDS		0.938
SD1		0.49
WIND LOAD		
	SECOND GUST)	115
EXPOSURE CATE	GORY	C

FOUNDATIONS

GROUND SNOW LOAD...

SOIL VALUES:	
FROST DEPTH30"	
MINIMUM BEARING DEPTH FOOTINGS	
ALLOWABLE BEARING AT MINIMUM DEPTH (DEAD + LIVE)	

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL. SLABS SHALL BEAR ON AGGREGATE BASE COURSE (ABC) FILL COMPACTED TO 98% OF MAXIMUM LABORATORY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR). MATERIAL SHOULD BE WITHIN 3% OF OPTIMUM MOISTURE AT TIME OF COMPACTION. NATIVE GRADE SUB-BASE, BELOW ABC FILL, SHALL BE PREPARED BY REMOVING ALL ORGANIC MATERIAL, SCARIFING TOP 6", THEN RECOMPACTED TO 95% OF MAXIMUM LABORATORY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR). MATERIAL SHOULD BE WITHIN 3% OF OPTIMUM MOISTURE AT TIME OF COMPACTION.

CONCRETE

CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER. CONCRETE EXPOSED TO FREEZE—THAW CYCLES TO CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH WATER—TO—CEMENT RATIO (W/C) AS SHOWN BELOW. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY ENGINEER. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90° F AT TIME OF PLACEMENT. MINIMUM CONCRETE STRENGTH (f'c) TO BE 3,000 PSI AT 28 DAYS UNLESS NOTED BELOW.

FOUNDATIONS (W/C \leq 0.50)	psi	
SLABS ON GRADE (W/C < 0.45)	nsi	

UNLESS NOTED OTHERWISE THE DESIGN STRENGTH (f'c) OF CONCRETE FOR ISOLATED FOOTINGS AND CONTINUOUS WALL FOOTINGS FOR STRUCTURES THREE—STORIES OR LESS SHALL BE 2,500 psi REGARDLESS OF THE SPECIFIED STRENGTH OF CONCRETE PLACED

MINIMUM CONCRETE COVER REQUIREMENTS:

CONCRETE SPLICE LENGTH REQUIREMENT - SEE TABLE IN TYPICAL DETAILS

- 1. ALL TENSION SPLICES TO BE CLASS B TENSION SPLICES UNLESS NOTED OTHERWISE
- 2. BAR SPACING TO BE A MINIMUM OF 2 BAR DIAMETERS
- 3. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH
- 4. ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE ENGINEER

MECHANICALLY VIBRATE ALL REINFORCED CONCRETE WHEN PLACED, EXCEPT THAT, UNREINFORCED SLABS ON GRADE NEED VIBRATED ONLY AT TRENCHES, FLOOR DUCTS, TURNDOWNS, ETC. REVIBRATE TOPS OF CAISSONS 15 MINUTES AFTER PLACING CONCRETE. MAXIMUM SLUMP TO BE 4-1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON ENGINEER'S APPROVAL. A 3/4" CHAMFER OF TOOLED EDGE SHALL BE PROVIDED AT ALL EXPOSED CONCRETE EDGES U,N,O,

ALL REINFORCING DIMENSIONS SHOWN ON DRAWINGS AS "CLEAR" SHALL BE CLEAR DIMENSIONS OF PLUS OR MINUS 1/4", TYPICAL UNLESS NOTED OTHERWISE. TOLERANCES FOR "D" DISTANCES TO BE PER SECTION 7.5.2.1 AND 7.5.2.2 OF ACI 318

PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. REINFORCING BAR SPACING SHOWN ON DRAWINGS ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90—DEGREE HOOKS UNLESS OTHERWISE NOTED OTHERWISE. ALL REINFORCING BARS, ANCHOR BOLTS, AND HOLDOWNS TO BE SECURELY TIED IN PLACE PRIOR TO PLACING OF CONCRETE. ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION.

STEEL REINFORCING:

NO TACK WELDING OF REINFORCING BARS IS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE BY THE ENGINEER. REINFORCING BARS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

STANDARD DEFORMED BARS #4 AND SMALLER	R (Fy = 40 KSI)ASTM	A615
STANDARD DEFORMED BARS #5 AND LARGER	(Fy = 60 KSI)ASTM	A615
ALL DEFORMED BARS TO BE WELDED (Fy =	60 KSI)ASTM	A706
WELDED WIRE FABRIC	ASTM	A185

STRUCTURAL STEEL

THESE DRAWINGS ARE NOT MEANT TO BE SHOP DRAWINGS TO BE FABRICATED FROM; THEY ARE TO COMMUNICATE THE DESIGN AND INTENT OF THE ENGINEER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY AN APPROVED STEEL FABRICATOR AND/OR STEEL DETAILER TO PROVIDE A CORRECTLY FABRICATED STEEL PACKAGE THAT MATCHES THE STRUCTURAL DRAWINGS PROVIDED.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS

NOTED OTHERWISE:				
ASTM	Fy (KSI)	Fu (KSI)		
A36	36	36		
A3992	50	65		
A36	36	58		
A572	50	65		
A53 GRADE B	35	60		
A500 GRADE B	35	60		
A500 GRADE B	46	58		
A36	36	58		
A588	50	70		
	A36 A3992 A36 A572 A53 GRADE B A500 GRADE B A500 GRADE B A500 GRADE B	A36 36 A3992 50 A36 36 A572 50 A53 GRADE B 35 A500 GRADE B 35 A500 GRADE B 46 A36 36		

ALL EXPOSED STEEL SHALL BE GALVANIZED. GALVANIZING SHALL CONFORM TO THE FOLLOWING ASTM REQUIREMENTS:

WELDING

ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY.

ALL WELDING SHALL BE DONE USING E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES.

THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.







502-437-5252

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6	12/23/2020	MAJ	FINAL	MEP		
7	01/05/2021	СРТ	FINAL	MEP		
8	01/11/2021	СРТ	FINAL	MEP		



01/11/2021

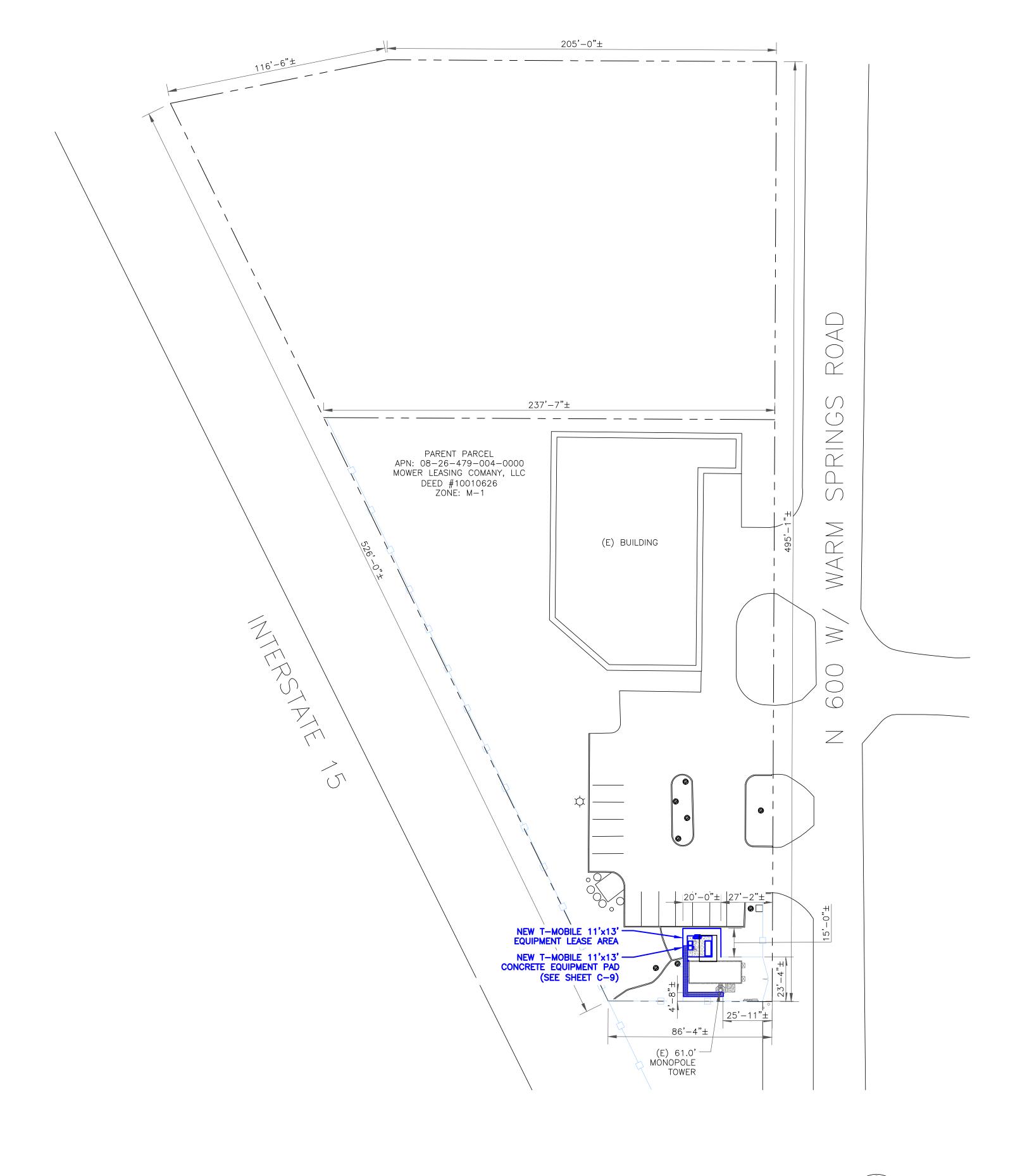
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SHEET NUMBER:

T-3

8

DigiSigner Document ID: 03d28eba-70ed-470e-ad5d-67076f64f861



T - Mobile - 12920 SE 38TH STREET BELLEVUE, WA 98006





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SHEET NUMBER:

OVERALL SITE PLAN

SCALE: 1/32"=1'-0" (FULL SIZE)
1/64"=1'-0" (11x17)







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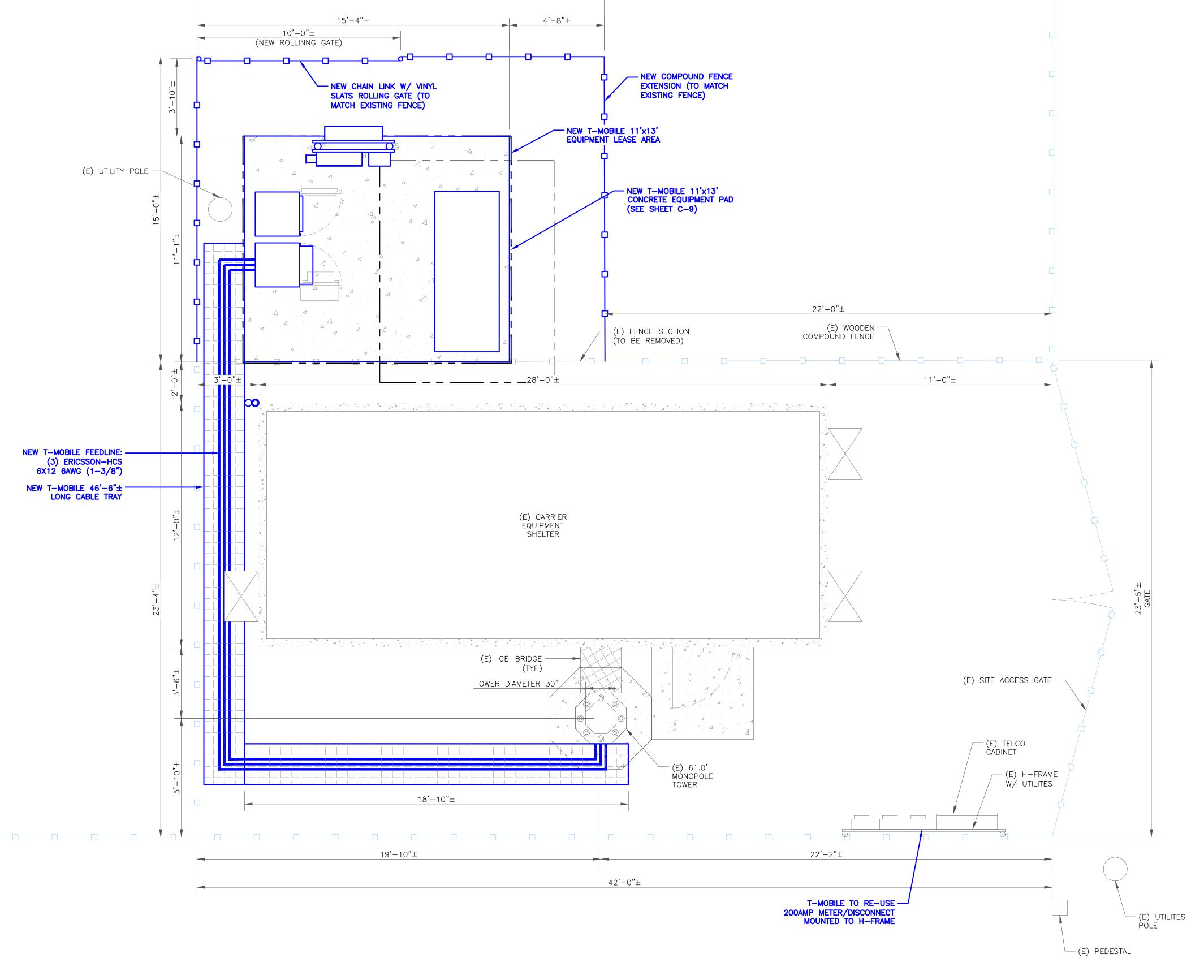
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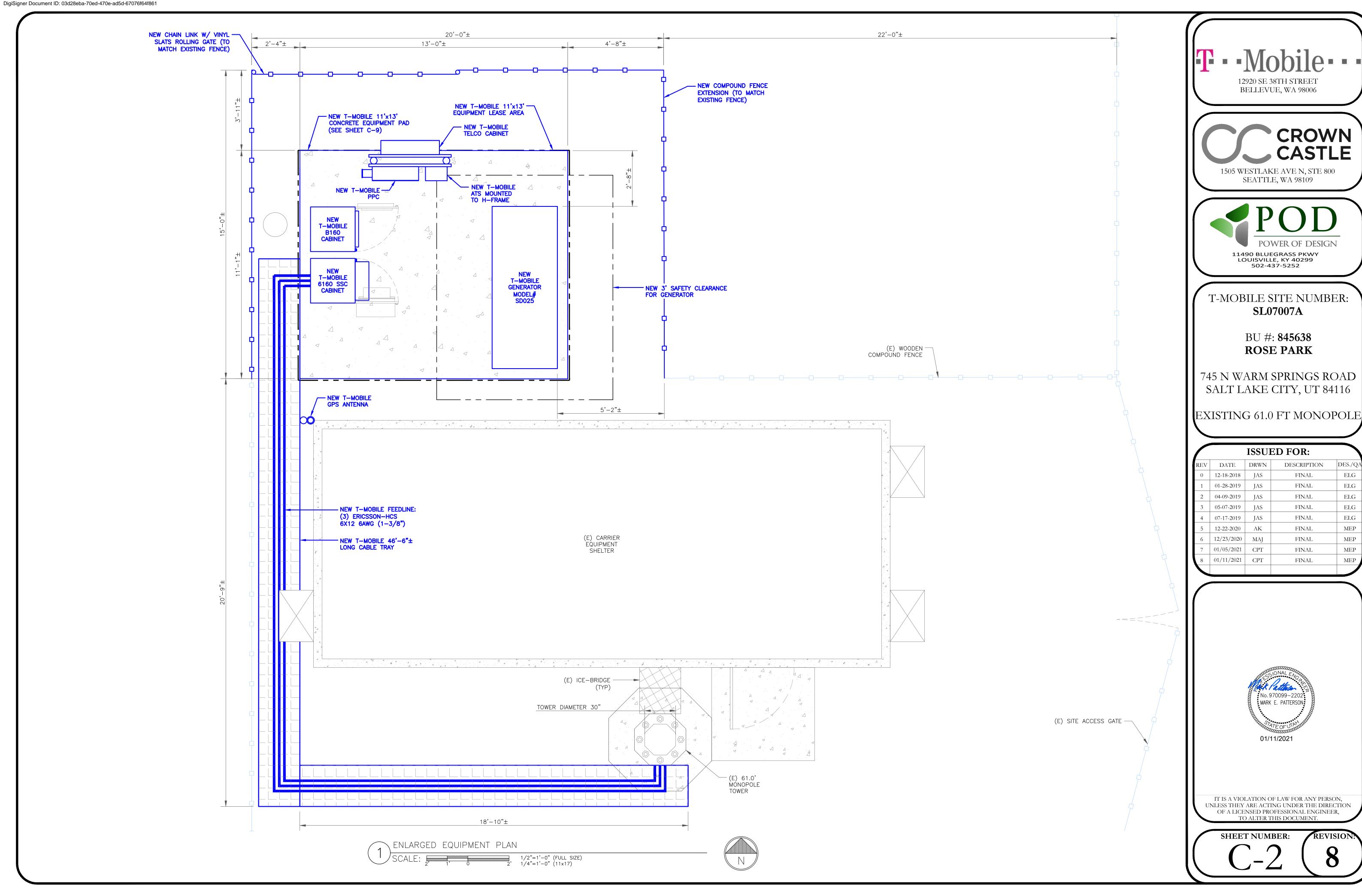
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8	01/11/2021	СРТ	FINAL	MEP

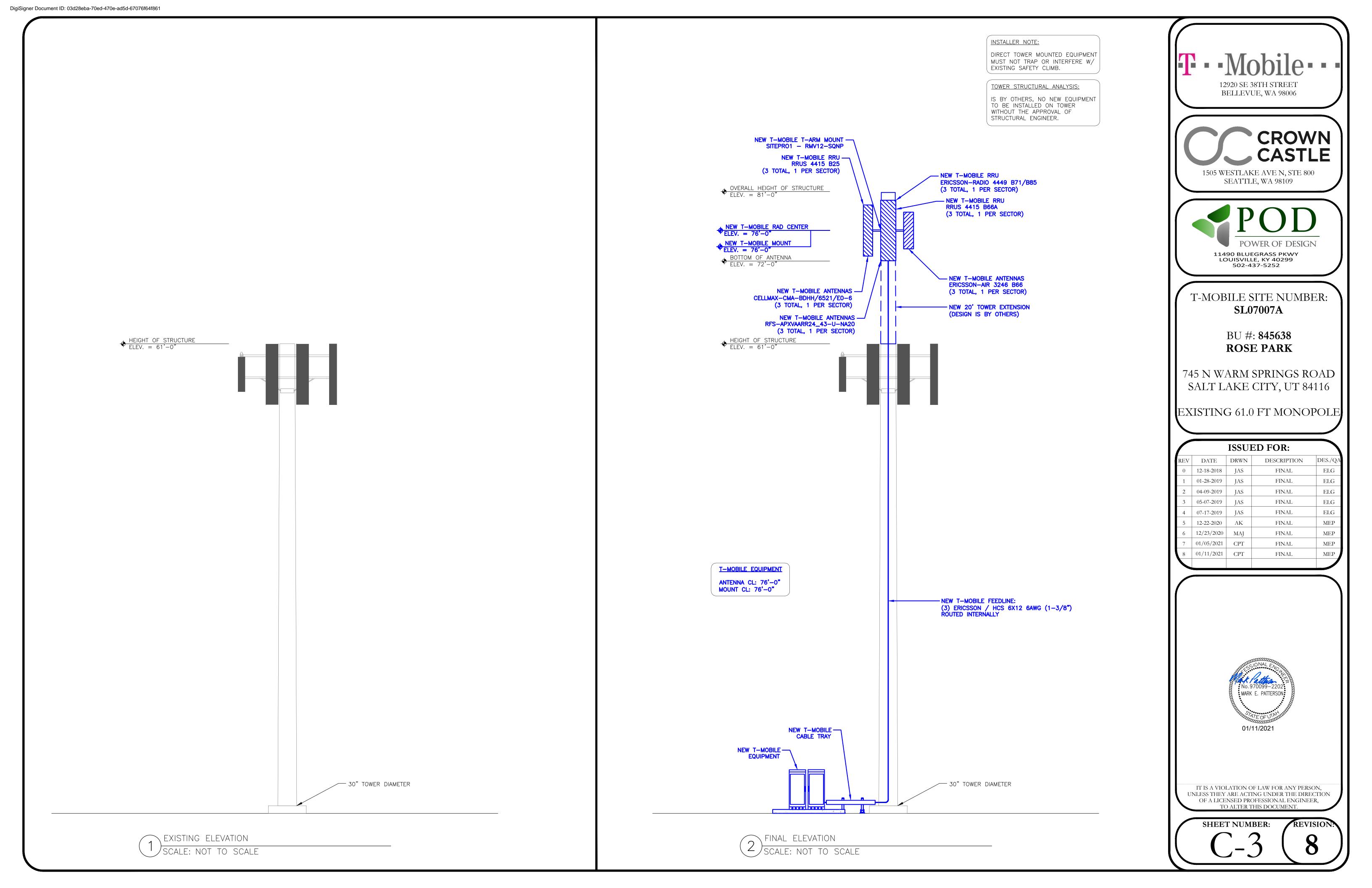


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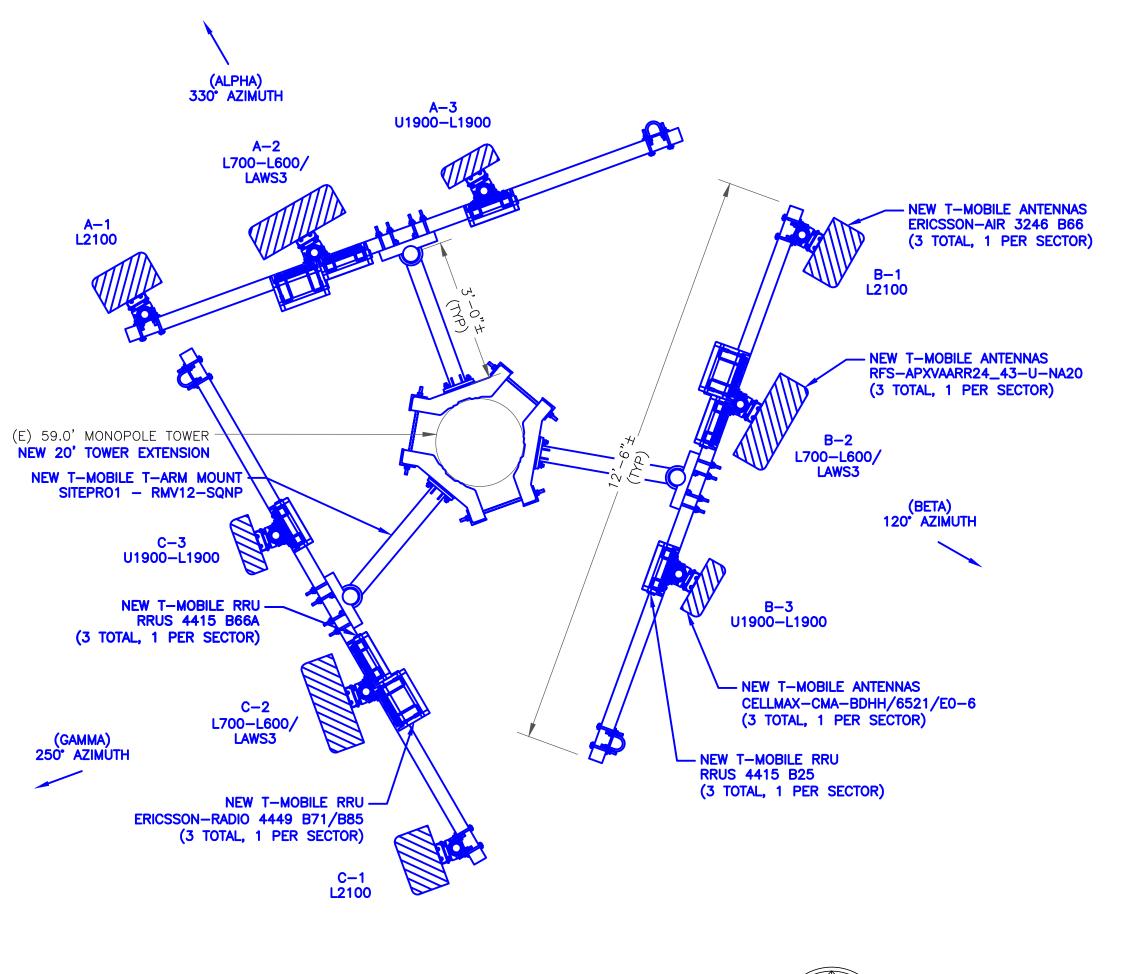


ANTENNA SCHEDULE									
SECTOR	ALPHA			BETA			GAMMA		
ANTENNA POSITION	A-1	A-2	A-3	B-1	B-2	B-3	C-1	C-2	C-3
ANTENNA TYPES	L2100	L700-L600/ LAWS3	U1900-L1900	L2100	L700-L600/ LAWS3	U1900-L1900	L2100	L700-L600/ LAWS3	U1900-L1900
AZIMUTH	330°	330°	330°	120°	120°	120°	250°	250°	250°
RAD CENTER (AGL)	76'-0"	76'-0"	76'-0"	76' – 0"	76'-0"	76'-0"	76' – 0"	76'-0"	76'-0"
MODEL	ERICSSON - AIR3246 B66	RFS-APXVAARR24_ 43-U-NA20	CELLMAX TECHNOLOGIES CMA-BDHH/6521/E0-6	ERICSSON - AIR3246 B66	RFS-APXVAARR24_ 43-U-NA20	CELLMAX TECHNOLOGIES CMA-BDHH/6521/E0-6	ERICSSON - AIR3246 B66	RFS-APXVAARR24_ 43-U-NA20	CELLMAX TECHNOLOGIES CMA-BDHH/6521/E0-6
FEEDER LENGTH	±110'-0"	±110'-0"	±110'-0"	±110'-0"	±110'-0"	±110'-0"	±110'-0"	±110'-0"	±110'-0"
FEEDER TYPE	HYBRID CABLE	HYBRID CABLE	HYBRID CABLE	HYBRID CABLE	HYBRID CABLE	HYBRID CABLE	HYBRID CABLE	HYBRID CABLE	HYBRID CABLE

ANTENNA SCHEDULE SCALE: NOT TO SCALE

TINAL ANTENNA LAYOUT

(2) SCALE: NOT TO SCALE











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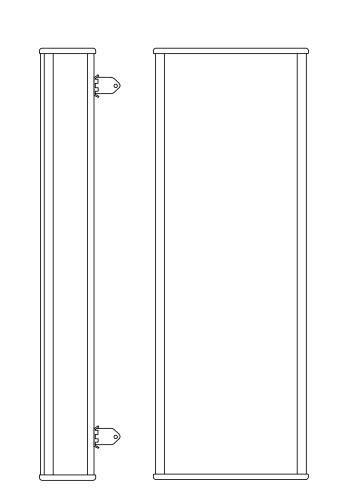
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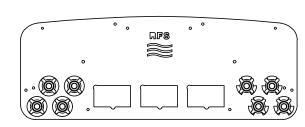
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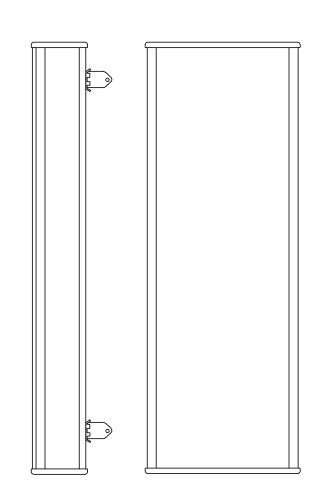
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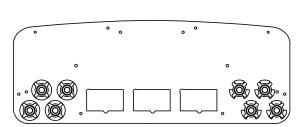




RFS - APXVAARR24_43-U-NA20 SIZE (HxWxD): 95.9x24x8.7 IN. MOUNTING HARDWARE P/N: BSAMNT-4 RATED WIND VELOCITY:150.0 MPH CONNECTOR TYP: 8 X 4.3-10 FEMALE

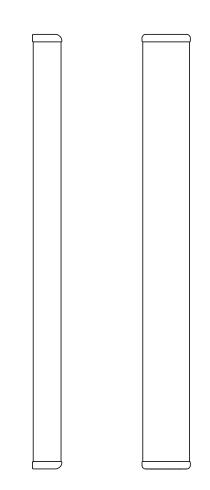
RFS - APXVAARR24_43-U-NA20 SCALE: NOT TO SCALE

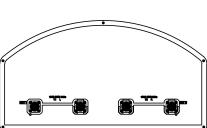




ERICSSON / AIR 3246 B66
SIZE (HxWxD): 58.1x15.7x9.4 IN.
MOUNTING HARDWARE P/N: BSAMNT-4
RATED WIND VELOCITY:150.0 MPH
CONNECTOR TYP: 8 X 4.3-10 FEMALE

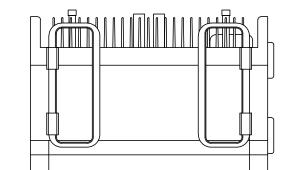
2 ERICSSON / AIR 3246 B66 SCALE: NOT TO SCALE

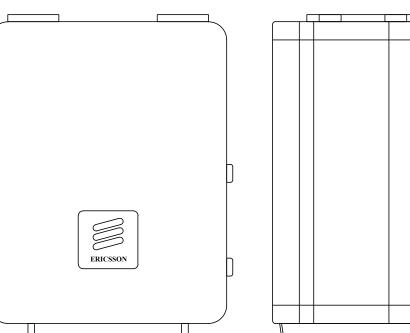


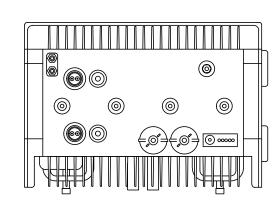


CELLMAX TECHNOLOGIES
CMA-BDHH/6521/E0-6
SIZE (HxWxD): 81.1x14.7x5.2 IN.
MOUNTING HARDWARE P/N: TM600899A-2
RATED WIND VELOCITY:150.0 MPH
CONNECTOR TYPY: 7-16 DIN. FEMALE (4)

CELLMAX - CMA-BDHH/6521/E0-6
SCALE: NOT TO SCALE







ERICSSON — RADIO 4449 B71/B85 WEIGHT: 73.21 LBS SIZE (HxWxD): 17.91x13.2x10.63 IN.

ERICSSON - RADIO 4449 B71/B85
SCALE: NOT TO SCALE





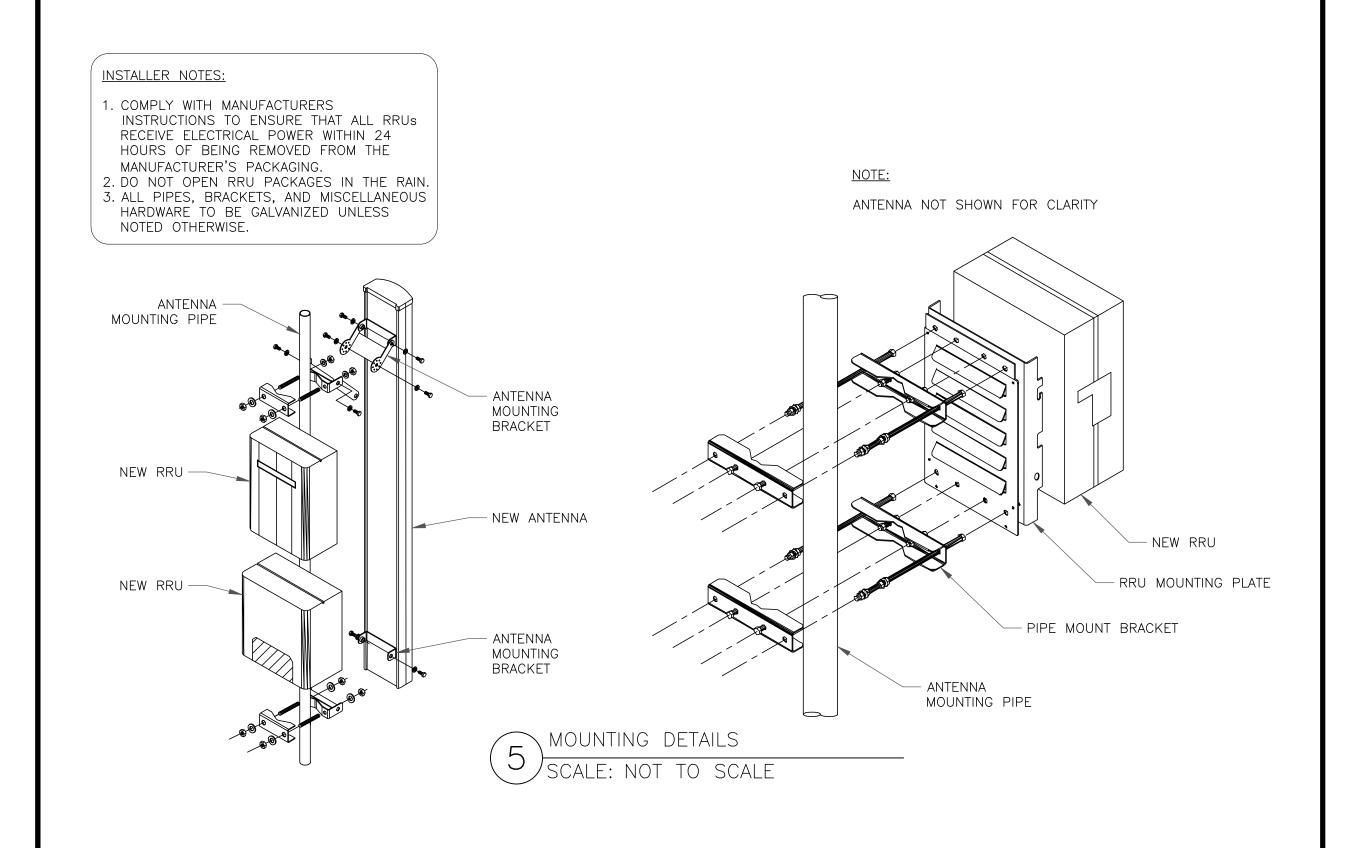


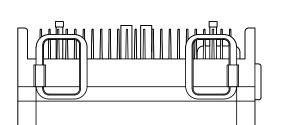
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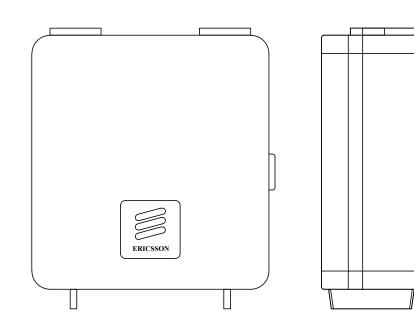
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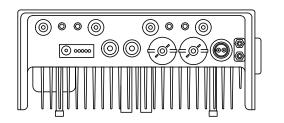
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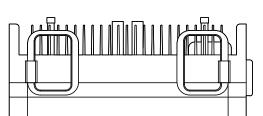


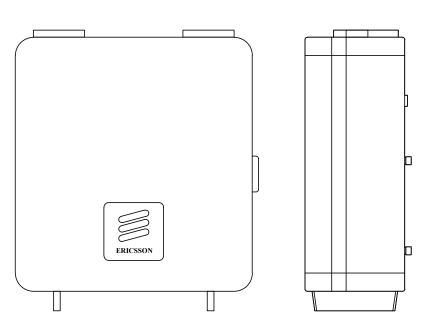


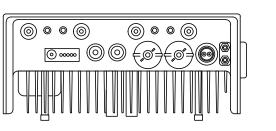


ERICSSON — RADIO 4415 B66A WEIGHT: 49.6 LBS SIZE (HxWxD): 16.5x13.5x6.3 IN.

6 ERICSSON - RADIO 4415 B66A SCALE: NOT TO SCALE



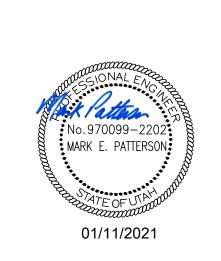




ERICSSON — RADIO 4415 B25 WEIGHT: 49.6 LBS SIZE (HxWxD): 16.5x13.5x6.3 IN.

7 ERICSSON - RADIO 4415 B25 SCALE: NOT TO SCALE

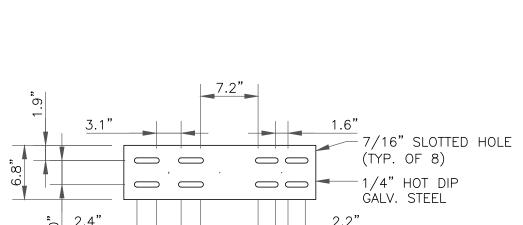
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6	12/23/2020	MAJ	FINAL	MEP				
7	01/05/2021	СРТ	FINAL	MEP				
8	01/11/2021	СРТ	FINAL	MEP				



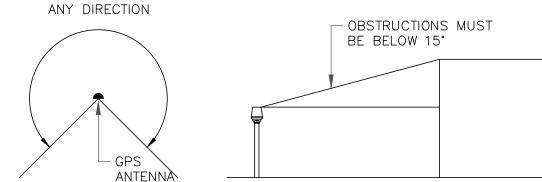
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:

PCTEL GPS ANTENNA MODEL# GPS-TMG-HR-26NCM OR EQUIVALENT 1" SCH. 40 — STAINLESS STEEL OR GALV. PIPE PIPE CLMAP -MOUNTING PLATE, SEE BELOW SUPPORT PIPE -



MINIMUM OF 75% OR 270° IN

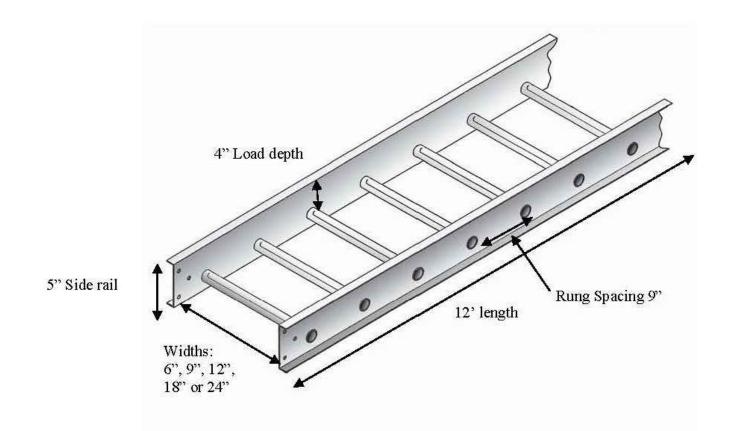


GPS MINIMUM SKY VIEW REQUIREMENTS

THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE FINAL RF REPORT.

- THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1-1/4" O.D. SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPÉ. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBARRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE
- 3. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.
- 4. DO NOT SWEEP TEST GPS ANTENNA.

Aluminum Cable Tray



Features: Aluminum cable tray with press fit rungs. Covers and bends also available.

Construction: Constructed from extruded T-6061 aluminum.

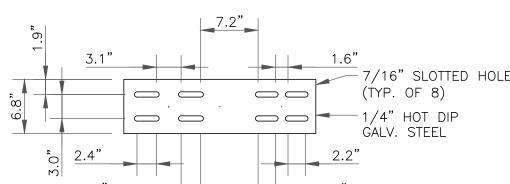
Weight:

6"x12" 15 lbs 9"x12" 17 lbs 12"x12" 19 lbs 18"x12' 22 lbs 24"x12" 23 lbs

Load:

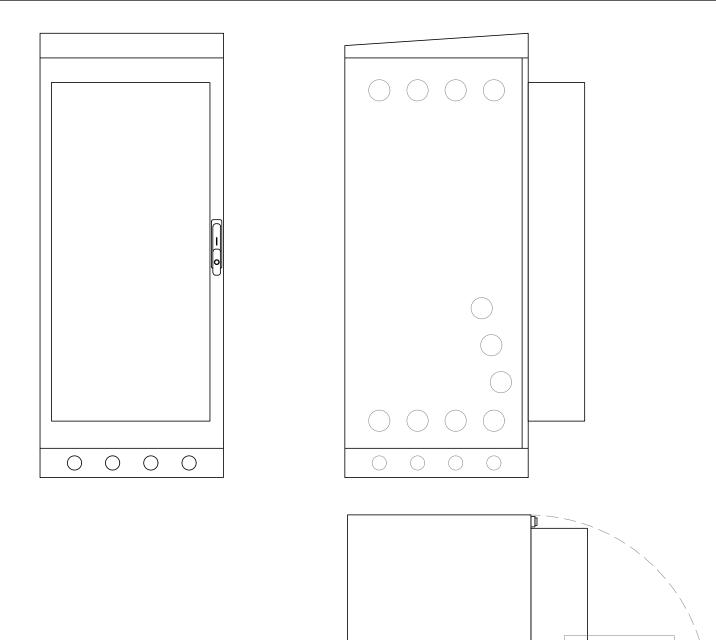
324 lbs per linear ft 125 lbs per linear ft 8' Span 117 lbs per linear ft 10' Span 12' Span 77 lbs per linear ft

> CABLE TRAY DETAIL SCALE: NOT TO SCALE



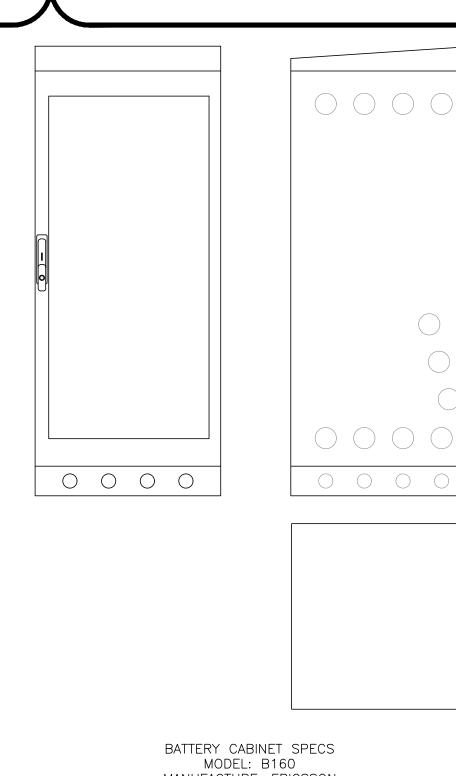
MOUNTING PLATE

GPS ANTENNA DETAIL SCALE: NOT TO SCALE



ERICSSON 6160 SSC WEIGHT: 60.0 LBS SIZE (HxWxD): 63"x25.6"x33.5" IN.

ERICSSON 6160 SSC SCALE: NOT TO SCALE



MANUFACTURE: ERICSSON SIZE (HxWxD): 63"x26"x26" IN.

ERICSSON B160 BATTERY CABINET SCALE: NOT TO SCALE

NOT USED

SCALE: NOT TO SCALE







T-MOBILE SITE NUMBER: **SL07007A**

> BU #: **845638 ROSE PARK**

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

EXISTING 61.0 FT MONOPOLE

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	12-18-2018	JAS	FINAL	ELG
1	01-28-2019	JAS	FINAL	ELG
2	04-09-2019	JAS	FINAL	ELG
3	05-07-2019	JAS	FINAL	ELG
4	07-17-2019	JAS	FINAL	ELG
5	12-22-2020	AK	FINAL	MEP
6	12/23/2020	MAJ	FINAL	MEP
7	01/05/2021	СРТ	FINAL	MEP
8	01/11/2021	СРТ	FINAL	MEP



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REINFORCED CONCRETE NOTES:

- 1. ALL CONCRETE WORK SHALL BE IS ACCORDANCE WITH THE ACI SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF CAST—IN—PLACE CONCRETE, AND WHERE CODES CONFLICT THE MORE STRINGENT NATIONAL OR LOCAL CODE SHALL GOVERN.
- 2. SITECAST CONCRETE FOR SLABS AND POST FOOTING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE TESTING IS NOT REQUIRED FOR SLABS AND POST FOOTINGS UNLESS NOTED OTHERWISE.

SLUMP - 4" MIN / 6" MAX

CLASS OF CONCRETE

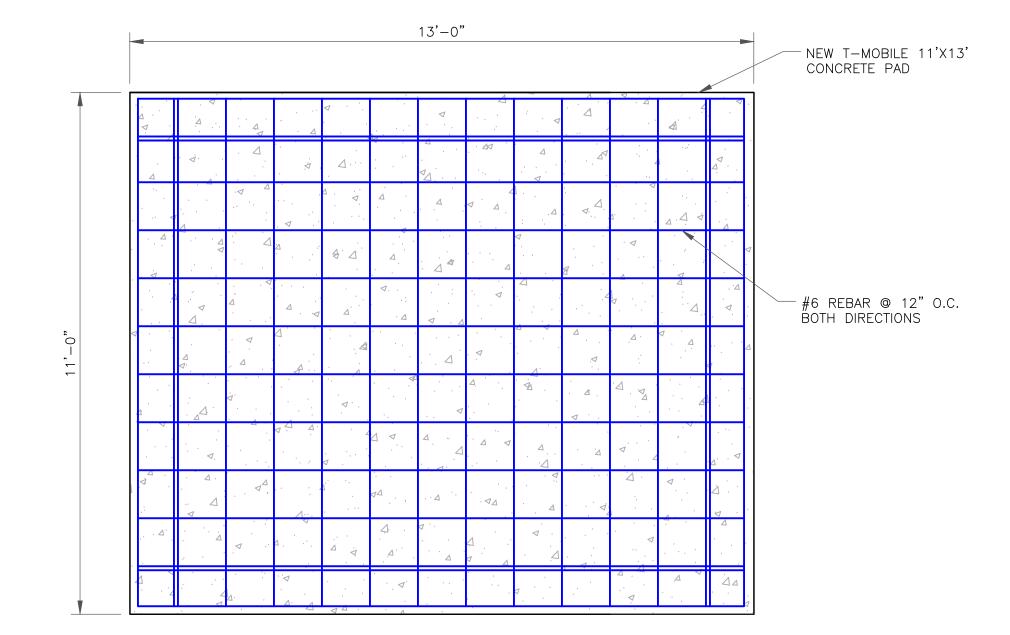
CLASS	28 DAYS STR.	MAXWATER/CEMENT RATIO	PLACEMENT LOCATION	NOTES
TYPE 1 300	00 PSI	0.55	SLAB & POST FOOTING	NORMAL WEIGHT
TYPE 111*	5000 PSI	0.45	SLAB & POST FOOTING	HIGH EARLY STS.

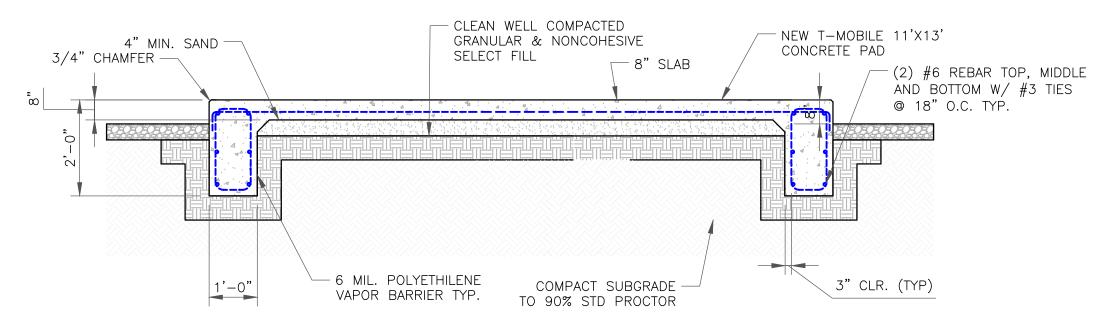
*IF REQUIRED BY THE CONSTRUCTION SCHEDULE THE CONTRACTOR MAY SUBSTITUTE TYPE 111 HIGH EARLY STRENGTH CONCRETE WITH THE APPROVAL OF THE CONSTRUCTION MANAGER.

- 3. REINFORCED STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS OTHERWISE NOTED. SPLICES FOR REBAR SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARDS, UNO. LAPS FOR WELDED WIRE FABRIC SHALL BE AT LEAST 8 INCHES, UNO.
- 4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS.

CONCRETE CAST AGAINST EARTH	. 3"
CONCRETE EXPOSED TO EARTH OR WATER	
#6 AND LARGER	
#5 AND SMALLER & wwf	. 1-1/2"

- 5. MAXIMUM COURSE AGGREGATE SIZE SHALL BE 3/4"
- 6. INSTALLATION OF CONCRETE ANCHORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATION. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO THE ANCHOR MANUFACTURER'S SPECIFICATIONS FOR MATERIAL STRENGTH, EMBEDMENT DEPTH, SPACING, AND EDGE DISTANCE OR AS DETAILED ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL. WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD, HILTI, OR APPROVED EQUAL. IF THE MANUFACTURER'S SPECIFICATIONS AND DETAILS ARE FOUND TO CONFLICT WITH THAT SHOWN HEREIN, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- 7. THE CONTRACTOR SHALL VERIFY FROST LINE AND FOOTING DEPTH REQUIREMENTS WITH THE JURISDICTION HAVING AUTHORITY PRIOR TO CONSTRUCTION AND CONSULT THE ENGINEER ACCORDINGLY.
- 8. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL CONDUIT SIZES AND PENETRATION LOCATIONS PRIOR TO POURING THE SLAB.
- 9. SOIL SHALL HAVE MINIMUM 1000 PSF ALLOWABLE BEARING CAPACITY.











T-MOBILE SITE NUMBER: **SL07007A**

BU #: **845638 ROSE PARK**

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

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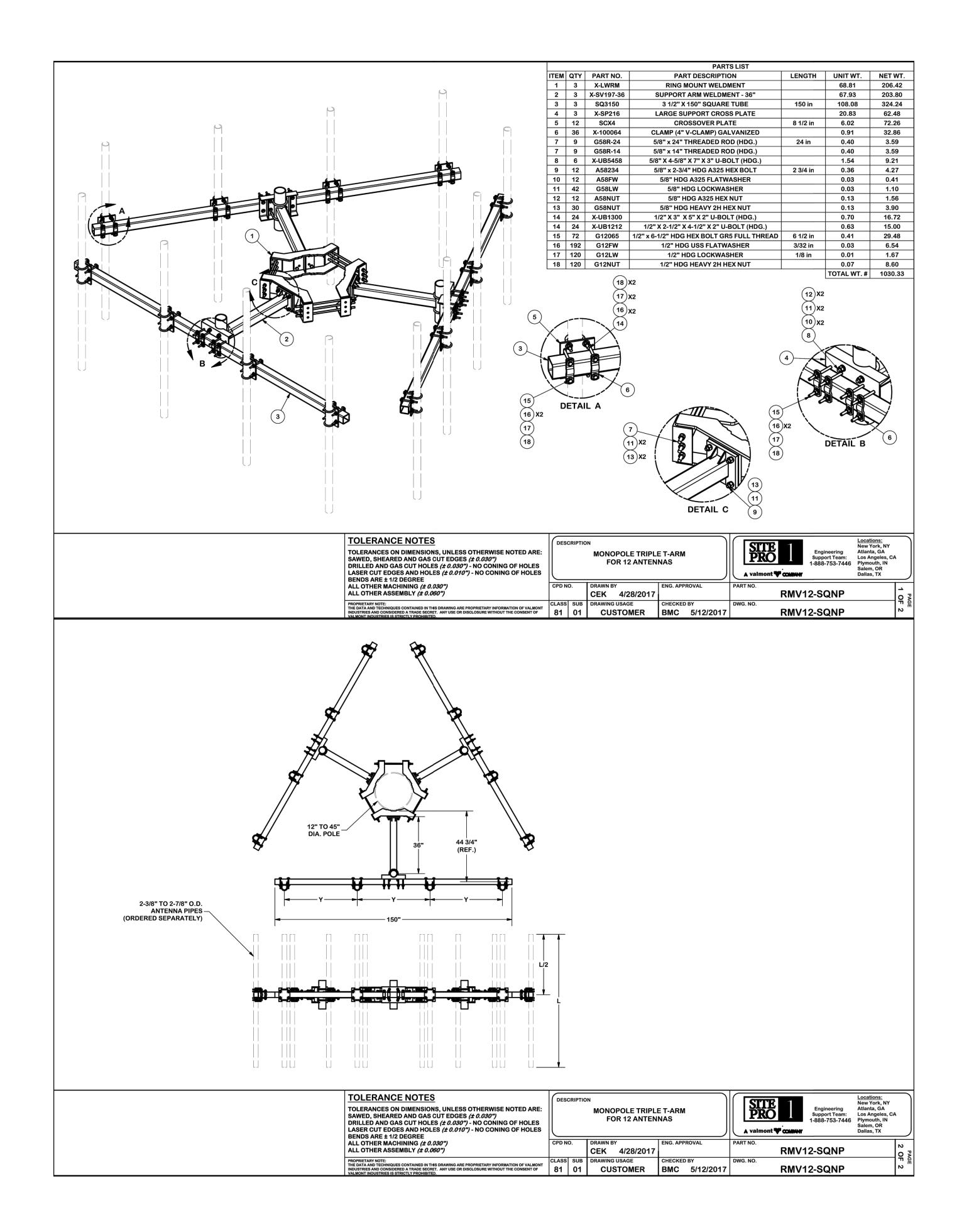


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SHEET NUMBER:

C-7











T-MOBILE SITE NUMBER: **SL07007A**

> BU #: **845638 ROSE PARK**

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

EXISTING 61.0 FT MONOPOLE

	ISSUED FOR:							
REV	DATE	DRWN	DESCRIPTION	DES./QA				
0	12-18-2018	JAS	FINAL	ELG				
1	01-28-2019	JAS	FINAL	ELG				
2	04-09-2019	JAS	FINAL	ELG				
3	05-07-2019	JAS	FINAL	ELG				
4	07-17-2019	JAS	FINAL	ELG				
5	12-22-2020	AK	FINAL	MEP				
6	12/23/2020	MAJ	FINAL	MEP				
7	01/05/2021	СРТ	FINAL	MEP				
8	01/11/2021	СРТ	FINAL	MEP				

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SITEPRO1 - RMV12-2QNP SCALE: NOT TO SCALE

SD025 | 2.2L | 25 kW INDUSTRIAL DIESEL GENERATOR SET **EPA Certified Stationary Emergency**

GENERAC INDUSTRIAL

Standby Power Rating 25 kW, 32 kVA, 60 Hz

Prime Power Rating* 23 kW, 28 kVA, 60 Hz



Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact



UL2200, UL508, UL489, UL142

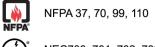
CSA C22.2



BS5514 and DIN 6271



SAE J1349



NEC700, 701, 702, 708



ISO 3046, 7637, 8528, 9001

Stationary Emergency

Aluminum

Forged Steel

Full-Flow Cartridge

9.3 (10.6)

NEMA ICS10, MG1, 250, ICS6, AB1 (ANSI)

SD025 | 2.2L | 25 kW

APPLICATION AND ENGINEERING DATA

EPA Certified Stationary Emergency

ENGINE SPECIFICATIONS

Displacement - in³ (L

Stroke - in (mm)

Intake Air Method

Crankshaft Type

Engine Governing

Lubrication System

Crankcase Capacity - qt (L)

ALTERNATOR SPECIFICATIONS

Insulation Class - Stator

Telephone Interference Factor (TIF)

Oil Filter Type

Piston Type

General

INDUSTRIAL DIESEL GENERATOR SET

Powering Ahead

Cooling System

/ater Pump Type

Fan Diameter - in (mm)

Fuel System

Fuel Inject Pump

Fuel Return Line - in (mm)

Engine Electrical System

Battery Charger Alternator

oad Capacity - Standby

oltage Regulator Type

Regulation Accuracy (Steady State)

Injector Type

design and superior manufacturing.

systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

GENERAC INDUSTRIAL

Pre-Lubed, Self Sealing

Distribution Injection Pump

See Battery Index 0161970SBY

18 (457.2)

Mechanical

0.31 (7.94) ID

0.19 (4.76) ID

Standard

Single Sealed

For over 50 years, Generac has provided innovative

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial



SD025 | 2.2L | 25 kW

EPA Certified Stationary Emergency

Stainless Steel Flexible Exhaust Connection

• Radiator Duct Adapter (Open Set Only)

· Critical Silencer (Enclosed Unit Only)

Closed Coolant Recovery System

UV/Ozone Resistant Hoses

Factory-Installed Radiator

50/50 Ethylene Glycol Antifreeze

Solenoid Activated Starter Motor

CONTROL SYSTEM

Rubber-Booted Engine Electrical Connections

Radiator Drain Extension

Battery Charging Alternator

Electrical System

Battery Cables

Battery Tray

STANDARD FEATURES

Factory Filled Oil and Coolant

Engine Coolant Heater

Fuel Lockoff Solenoid

Primary Fuel Filter

Cooling System

ENGINE SYSTEM

Oil Drain Extension

Air Cleaner

Fuel System

Fan Guard

INDUSTRIAL DIESEL GENERATOR SET

Digital H Control Panel- Dual 4x20 Display

Programmable Crank Limiter

• 7-Day Programmable Exerciser Special Applications Programmable Logic Controller • RS-232/485 Communications • All Phase Sensing Digital Voltage Regulato

SD025 | 2.2L | 25 kW

INDUSTRIAL DIESEL GENERATOR SET

 2-Wire Start Capability • Date/Time Fault History (Event Log) Isochronous Governor Control

Waterproof/Sealed Connectors

Audible Alarms and Shutdowns

EPA Certified Stationary Emergency

Not in Auto (Flashing Light)

Alarms and Warnings Auto/Off/Manual Switch E-Stop (Red Mushroom-Type) Oil Pressure NFPA110 Level I and II (Programmable) Coolant Temperature Coolant Level

 Customizable Alarms, Warnings, and Events Modbus® Protocol · Predictive Maintenance Algorithm Sealed Boards Password Parameter Adjustment Protection

ALTERNATOR SYSTEM

Class H Insulation Material

Rotor Dynamically Spin Balanced

• Internal Genset Vibration Isolation

· Separation of Circuits - High/Low Voltage

Separation of Circuits - Multiple Breakers

2 Year Limited Warranty (Standby Rated Units

1 Year Limited Warranty (Prime Rated Units)

Silencer Mounted in the Discharge Hood

Full Load Capacity Alternator

· Protective Thermal Switch

Wrapped Exhaust Piping

Standard Factory Testing

· Amortisseur Winding (3-Phase Only)

UL2200 GENprotect[™]

Brushless Excitation

Sealed Bearing

GENERATOR SET

2/3 Pitch

Skewed Stator

 Single Point Ground • 16 Channel Remote Trending • 0.2 msec High Speed Remote Trending Alarm Information Automatically Annunciated

on the Display

Full System Status Display Power Output (kW) Power Factor kW Hours, Total, and Last Run

 Real/Reactive/Apparent Power All Phase AC Voltage All Phase Currents Oil Pressure Coolant Temperature

Coolant Level

Engine Speed

Battery Voltage

GENERAC INDUSTRIAL

OPERATING DATA POWER RATINGS

FUEL CONSUMPTION RATES*

					Standby
	Single-Phase 1	20/240 VAC @1.	0pf	25 kW	Amps: 104
	Three-Phase 1:	20/208 VAC @0.8	Bpf	25 kW	Amps: 87
	Three-Phase 1	20/240 VAC @0.8	Bpf	25 kW	Amps: 75
	Three-Phase 2	77/480 VAC @0.8	Bpf	25 kW	Amps: 38
	Three-Phase 3	46/600 VAC @0.8	Bpf	25 kW	Amps: 30
STARTING CAPAE					Amps: 30
STARTING CAPAE		sk	VA vs.	Voltage Dip	<u>'</u>
TARTING CAPAE					Amps: 30

K0035124Y21 61 K0035124Y21 46

Fuel Pump Lift- ft (m) Total Fuel Pump Flow (Combustion + Return) - gph (Lph) 16.6 (63)

2.1 (7.9) consumption rates at 100% load.

Diesel - gph (Lph)

Coolant Flow	gpm (Lpm)	48.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	119,460 (35)
Inlet Air	scfm (m³/min)	2,800 (79)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin	No. 0199280SSD
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

Flow at Rated Power scfm (m3/min)

COMBUSTION AIR REQUIREMENTS

NE			EXHAUSI		
		Standby			Standby
Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)	scfm (m³/min)	265 (7.5)
power at Rated kW**	hp	49	Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
1 Speed	ft/min (m/min)	1,181 (360)	Exhaust Temp (Rated Output)	°F (°C)	690 (365.5)
	psi (kPa)	129.8 (894.9)			

87.9 (2.49)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 0187500SSB Prime - See Bulletin 0187510SSB

SD025 | 2.2L | 25 kW

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

ENGINE SYSTEM

O Critical Silencer (Open Set Only)

Radiator Stone Guard

. Upward Facing Discharge Hoods Stainless Steel Lift Off Door Hinges Stainless Steel Lockable Handles RhinoCoat[™] - Textured Polyester Powder Coat Paint

GENERAC INDUSTRIAL

Rust-Proof Fasteners with Nylon Washers to

High Performance Sound-Absorbing Material

ENCLOSURE (If Selected)

(Sound Attenuation Enclosures

Gasketed Doors

Stamped Air-Intake Louvers

FUEL TANKS (If Selected)

Normal and Emergency Vents

Check Valve In Supply and Return Lines

RhinoCoat™- Textured Polyester Powder Coat Paint

Alarms and Warnings Time and Date Stamped

Snap Shots of Key Operation Parameters During

Alarms and Warnings Spelled Out (No Alarm Codes)

UL 142/ULC S601

Double Wall

Sloped Top

Fuel Level

Sloped Bottom

Factory Pressure Tested

Stainless Steel Hardware

Engine Overspeed

Battery Voltage

Rupture Basin Alarm

ELECTRICAL SYSTEM 10A UL Listed Battery Charger Battery Warmer

ALTERNATOR SYSTEM Alternator Upsizing

O Anti-Condensation Heater Tropical Coating

O Permanent Magnet Excitation GENERATOR SET

 Extended Factory Testing 8 Position Load Center

Pad Vibration Isolation

ENGINE SYSTEM O Coolant Heater Isolation Ball Valves

ENGINEERED OPTIONS

 Fluid Containment Pan CONTROL SYSTEM

O Spare Inputs (x4) / Outputs (x4) Battery Disconnect Switch

SD025 | 2.2L | 25 kW

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*

INDUSTRIAL DIESEL GENERATOR SET

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189

ALTERNATOR SYSTEM

O 3rd Breaker System **GENERATOR SET**

Special Testing

GENERAC INDUSTRIAL

O NFPA 110 Compliant 21-Light Remote Annunciator

O Remote E-Stop (Break Glass-Type, Surface Mount)

Surface Mount)

Remote E-Stop (Red Mushroom-Type, Flush Mount)

O Remote Relay Assembly (8 or 16)

Oil Temperature Indication and Alarm

O Remote E-Stop (Red Mushroom-Type,

CONFIGURABLE OPTIONS

CIRCUIT BREAKER OPTIONS O Main Line Circuit Breaker O 2nd Main Line Circuit Breaker

Level 1 Fan and Belt Guards (Open Set Only)

FUEL SYSTEM O NPT Flexible Fuel Line

 Level 1 Sound Attenuation O Level 2 Sound Attenuation O Level 2 Sound Attenuation with Motorized Dampers Steel Enclosure O Aluminum Enclosure

O Up to 200 MPH Wind Load Rating (Contact Factory for Availability)

AC/DC Enclosure Lighting Kit Door Alarm Switch

ENCLOSURE

Enclosure Heater Damper Alarm Contacts

O Shunt Trip and Auxiliary Contact

Electronic Trip Breakers

Weather Protected Enclosure

 2 Year Extended Limited Warranty 5 Year Extended Limited Warranty

WARRANTY (Standby Gensets Only)

O 7 Year Extended Limited Warranty O 10 Year Extended Limited Warranty

O 8 in (203.2 mm) Fill Extension

O 13 in (330.2 mm) Fill Extension O 19 in (482.6 mm) Fill Extension Overfill Protection Valve

5 Gallon Spill Box Return Hose O 5 Gallon Spill Box Tank Risers

CONTROL SYSTEM

O 100 dB Alarm Horn

Ground Fault Annunciation

10A Engine Run Relay

O 120V GFCI and 240V Outlets

O Remote Communication - Modem

FUEL TANKS (Size On Last Page)

 Fuel Level Switch and Alarm 12' Vent System

GENERAC INDUSTRIAL

76.0 (1,930) x 37.4 (950) x 44.8 (1,138)

25 54 (204) 94.8 (2,409) x 38.0 (965) x 62.5 (1,588) 1,367 (1,105) 1,307 (1,045)

142 300 (1,136) 94.8 (2,409) x 38.0 (965) x 90.0 (2,287) 2,934 (1,332) 2,803 (1,272)

132 (501) 94.8 (2,409) x 38.0 (965) x 74.5 (1,893) 2,662 (1,209) 2,531 (1,149) 90 190 (719) 106.0 (2,692) x 38.0 (965) x 78.5 (1,994) 2,876 (1,307) 2,745 (1,247)

211 (799) 94.8 (2,409) x 38.0 (965) x 86.5 (2,198) 2,871 (1,304) 2,740 (1,244)

112.5 (2,857) x 38.0 (965) x 49.5 (1,258) 2,085 (947)

94.8 (2,409) x 38.0 (965) x 61.1 (1,551) 2,090 (950) 1,921 (873)

54 (204) 112.5 (2,857) x 38.0 (965) x 62.5 (1,588) 1,427 (1,165) 62 132 (501) 112.5 (2,857) x 38.0 (965) x 74.5 (1,893) 2,795 (1,269) 2,628 (1,193) 90 190 (719) 112.5 (2,857) x 38.0 (965) x 78.5 (1,994) 3,009 (1,367) 2,842 (1,291) 100 211 (799) 112.5 (2,857) x 38.0 (965) x 86.5 (2,198) 3,004 (1,364) 2,837 (1,288) 142 300 (1,136) 112.5 (2,857) x 38.0 (965) x 90.0 (2,287) 3,067 (1,392) 2,900 (1,316)

54 (204) 94.8 (2,409) x 38.0 (965) x 74.1 (1,881) 1,430 (1,168

100 211 (799) 94.8 (2,409) x 38.0 (965) x 98.1 (2,491) 3,009 (1,367) 2,840

142 300 (1,136) 94.8 (2,409) x 38.0 (965) x 101.6 (2,580) 3,072 (1,395) 2,903 (1,

132 (501) 94.8 (2,409) x 38.0 (965) x 86.1 (2,186) 2,800 (1,

90 190 (719) 106.0 (2,692) x 38.0 (965) x 90.1 (2,287) 3,014 (1,37

25 54 (204) 76.0 (1,930) x 37.4 (950) x 57.8 (1,468) 132 (501) 76.0 (1.930) x 37.4 (950) x 69.8 (1.773)

90 190 (719) 106.0 (2,692) x 37.4 (950) x 73.8 (1,874)

100 211 (799) 76.0 (1,930) x 37.4 (950) x 81.8 (2,078)

142 300 (1,136) 92.9 (2,360) x 37.4 (950) x 85.3 (2,167)

WEATHER PROTECTED ENCLOSURE

LEVEL 1 ACOUSTIC ENCLOSURE

LEVEL 2 ACOUSTIC ENCLOSURE

Time Capacity - Hours - Gal (L)

No Tank

- Hours

- Hours

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

P: (262) 544-4811 @2019 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

Weight - Ibs (kg) Steel

1,580 (718)

2.290 (1.040)

2,499 (1,135)

2,562 (1,163)

Weight - Ibs (kg)

Enclosure Only

Weight - lbs (kg)

Enclosure Only

Weight - Ibs (kg)

Enclosure Only

Part No. 10000028435

Rev. A 04/02/19

O Fire Rated Stainless Steel Fuel Hose

FUEL TANKS O UL2085 Tank

O Stainless Steel Tanks

O Special Fuel Tanks

Vent Extensions

BU #: **845638**

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

12920 SE 38TH STREET BELLEVUE, WA 98006

1505 WESTLAKE AVE N, STE 800

SEATTLE, WA 98109

11490 BLUEGRASS PKWY

LOUISVILLE, KY 40299

502-437-5252

T-MOBILE SITE NUMBER:

SL07007A

ROSE PARK

EXISTING 61.0 FT MONOPOLE

ISSUED FOR: DRWN DESCRIPTION DES./QA DATE 12-18-2018 JAS FINAL ELG 01-28-2019 FINAL ELG 04-09-2019 FINAL ELG 05-07-2019 JAS FINAL 07-17-2019 JAS FINAL ELG 12-22-2020 AK MEP 12/23/2020 MAJ FINAL MEP 01/05/2021 CPT MEP FINAL

01/11/2021 CPT

FINAL

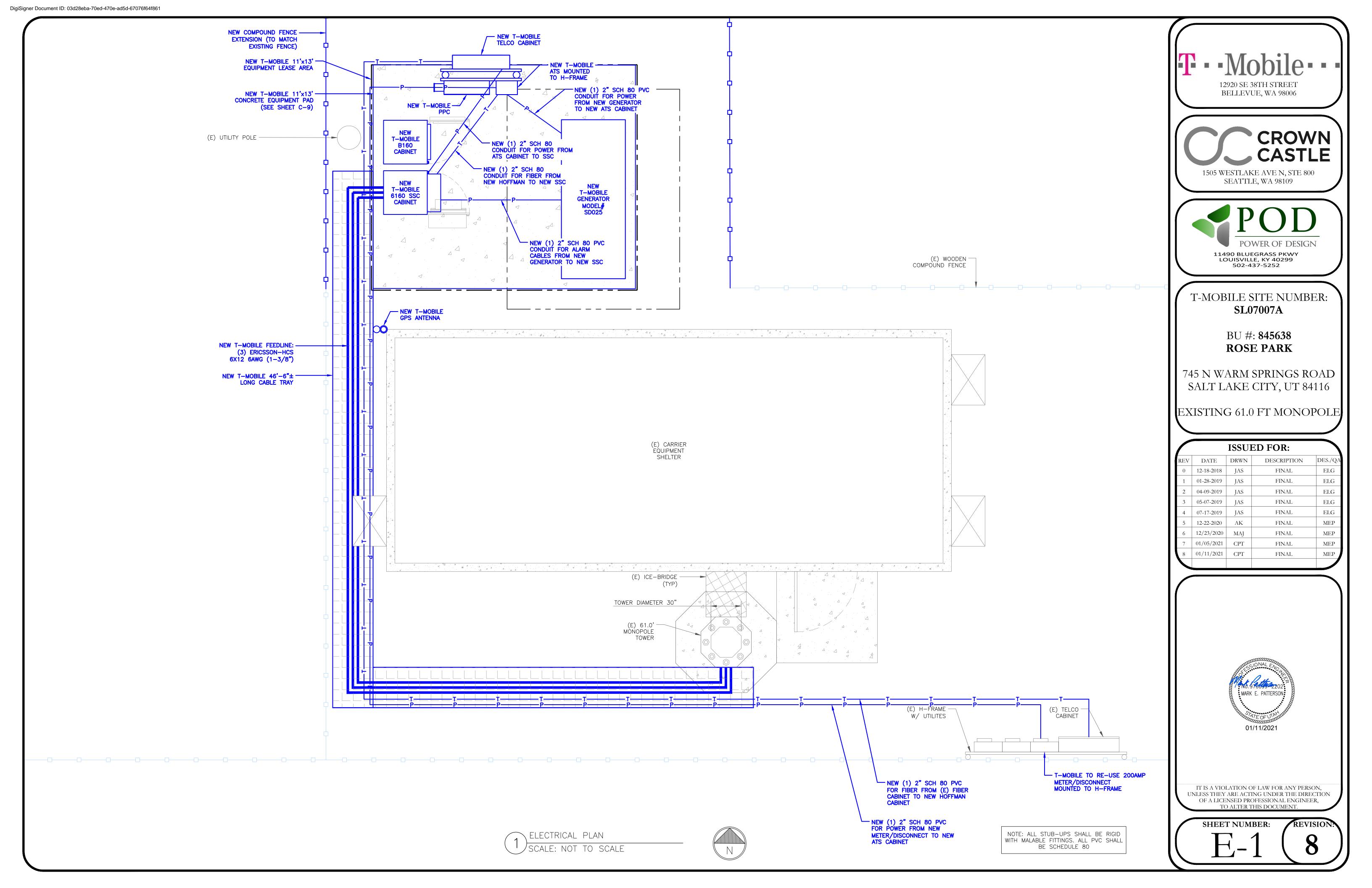
MEP

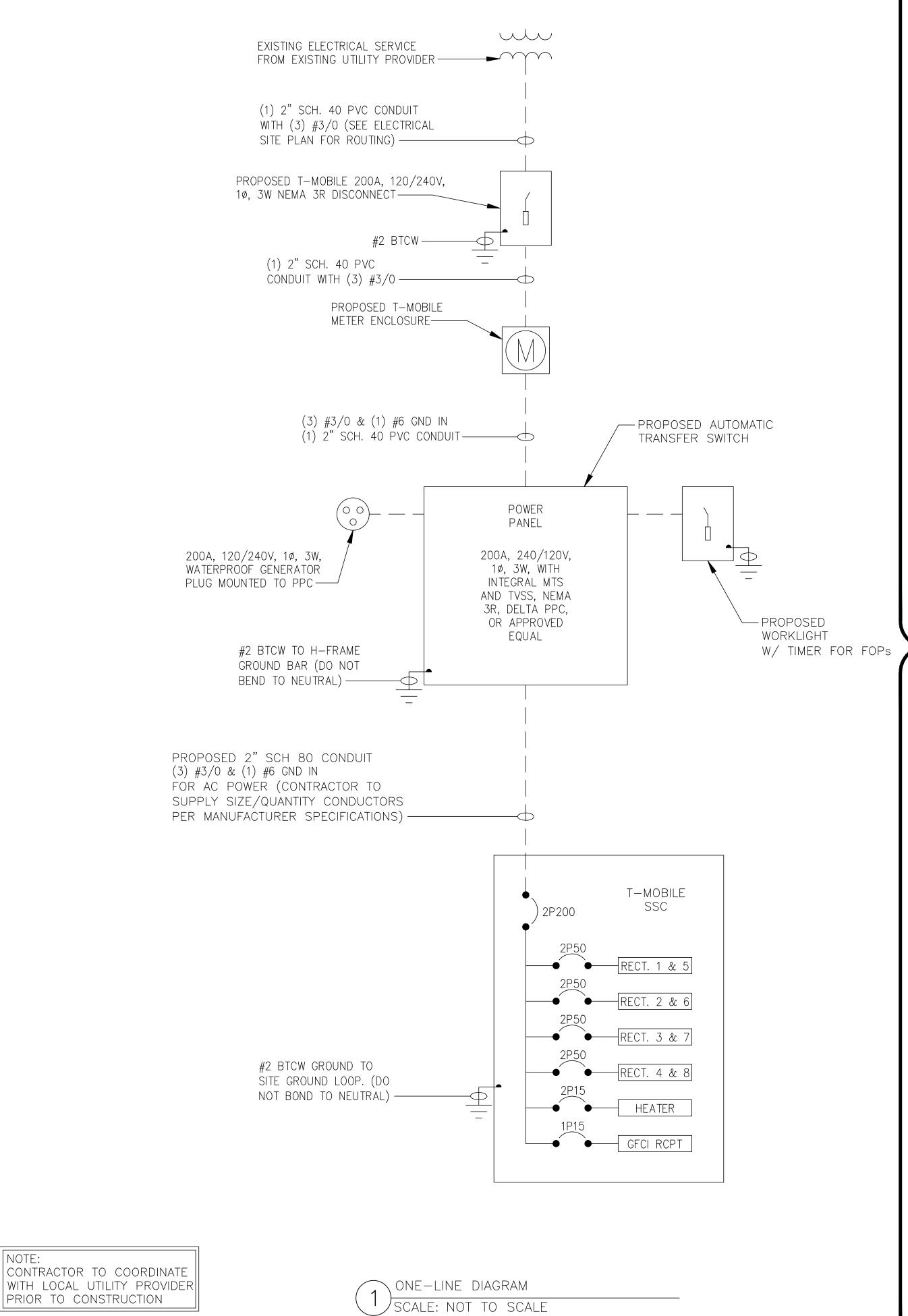
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SHEET NUMBER:









PANEL: PPC

120/240 VOLTS, $\frac{1}{2}$ PHASE, $\frac{3}{2}$ WIRE, S/N, $\frac{200A}{2}$ AMP MCB NEMA 3R ENCL MINIMUM AIC RATING - 22,000A

DESCRIPTION	BKR	POLE	CKT	VA	ф	VA	CKT	POLE	BKR	DESCRIPTION
SPACE			1		А		2			SPACE
2P BRANCH			3		В		4			SPACE
RECEPTACLE/LIGHTS	15	1	5	230	А		6			SPACE
SPACE	20	1	7		В	1000	8			SPACE
SPACE			9		А	1000	10			2P BRANCH
SPACE			11		В	15,000	12	2	100*	(N) RBS 6102 CABINET
SPACE			13		А	15,000	14			
SPACE			15		В		16			2P BRANCH
SPACE			17		А		18			

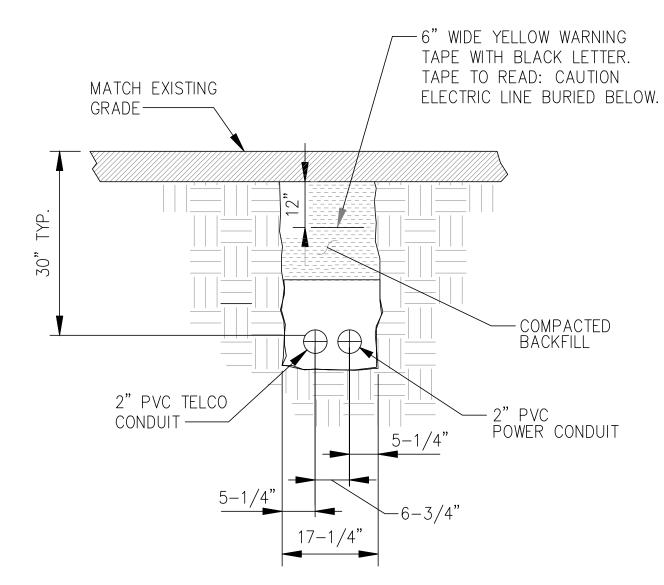
LOAD CALCULATIONS:

50 VOLTAMPS \times 1.25 = 63 VA $180 \text{ VOLTAMPS} \times 1.00 = 180 \text{ VA}$ RECEPTACLE: $32050 \text{ VOLTAMPS} \times 1.00 = 32,050 \text{ VA}$ MISC. EQUIPMENT:

TOTAL CALCULATED CONNECTED LOAD: 32,280 VA TOTAL CALCULATED DEMAND LOAD: 32,293 VA

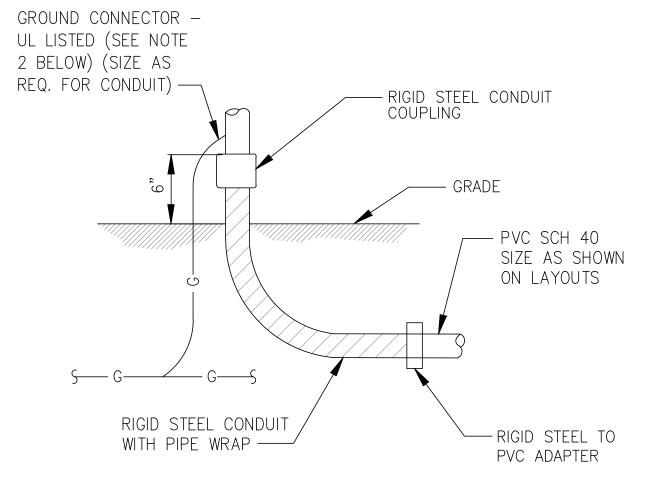
TOTAL CALCULATED DEMAND LOAD: 135A 120/240V 1PH 3W

NEREAKER PANEL SCHEDULE SCALE: NOT TO SCALE



NUMBER AND SIZE OF CONDUITS MAY VARY. SEE DWG E-1 FOR CONDUIT SIZE AND LOCATION. CONFIRM DIMENSIONS SHOWN WITH UTILITY COMPANY

> CONDUIT TRENCH DETAIL SCALE: NOT TO SCALE



1. ALL CONDUIT ABOVE GRADE MUST BE RIGID STEEL OR LIQUIDTIGHT. 2. ALL NEW STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 G90 AFTER FABRICATION. 3. FIELD ABRASIONS SHALL BE TOUCH UP PAINTED WITH ZINC RICH GALVANIZING REPAIR PAINT IN ACCORDANCE WITH ASTM A780.

4. ALL EXPOSED ENDS OF CONDUITS SHALL HAVE WEATHER PROOF CAPS. DO NOT USE DUCT TAPE.
5. PROVIDE 200LB. TEST PULL WIRES IN EACH TELEPHONE AND

POWER CONDUIT. STUB CONDUITS INTO ENCLOSURE AND LABEL.

UNDERGROUND CONDUIT STUB-UP SCALE: NOT TO SCALE







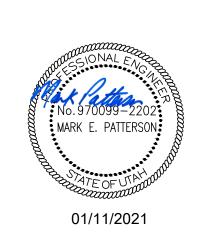
T-MOBILE SITE NUMBER: **SL07007A**

> BU #: **845638 ROSE PARK**

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

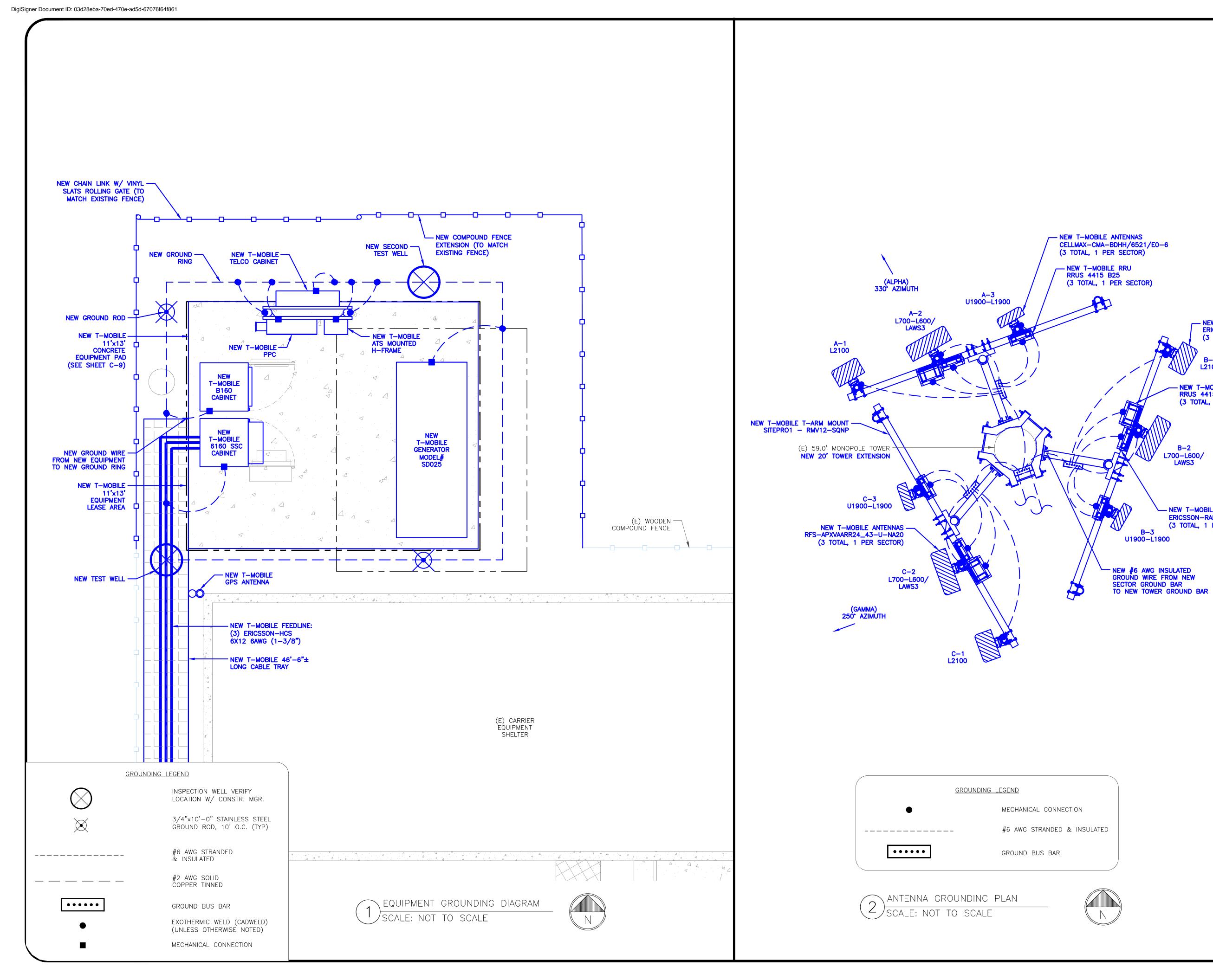
EXISTING 61.0 FT MONOPOLE

ISSUED FOR:							
REV	DATE	DRWN	DESCRIPTION	DES./QA			
0	12-18-2018	JAS	FINAL	ELG			
1	01-28-2019	JAS	FINAL	ELG			
2	04-09-2019	JAS	FINAL	ELG			
3	05-07-2019	JAS	FINAL	ELG			
4	07-17-2019	JAS	FINAL	ELG			
5	12-22-2020	AK	FINAL	MEP			
6	12/23/2020	MAJ	FINAL	MEP			
7	01/05/2021	СРТ	FINAL	MEP			
8	01/11/2021	СРТ	FINAL	MEP			



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SHEET NUMBER:



12920 SE 38TH STREET BELLEVUE, WA 98006





T-MOBILE SITE NUMBER: **SL07007A**

NEW T-MOBILE ANTENNAS ERICSSON-AIR 3246 B66

(BETA) 120° AZIMUTH

- NEW T-MOBILE RRU RRUS 4415 B66A (3 TOTAL, 1 PER SECTOR)

- NEW T-MOBILE RRU
ERICSSON-RADIO 4449 B71/B85
(3 TOTAL, 1 PER SECTOR)

(3 TOTAL, 1 PER SECTOR

BU #: **845638 ROSE PARK**

745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

EXISTING 61.0 FT MONOPOLE

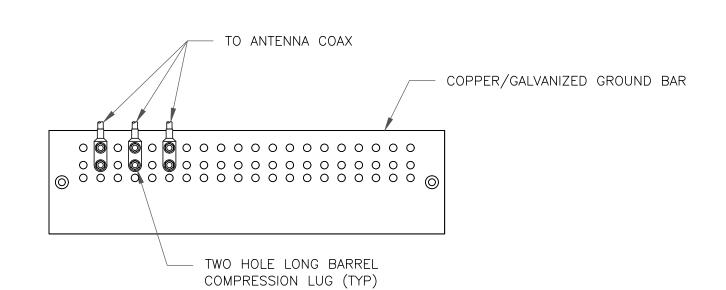
	ISSUED FOR:							
REV	DATE	DRWN	DESCRIPTION	DES./QA				
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5	12-22-2020	AK	FINAL	MEP				
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8	01/11/2021	СРТ	FINAL	MEP				



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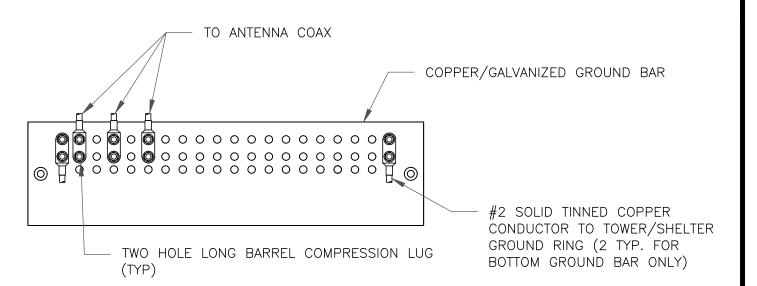
REVISION

SHEET NUMBER:



- 1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

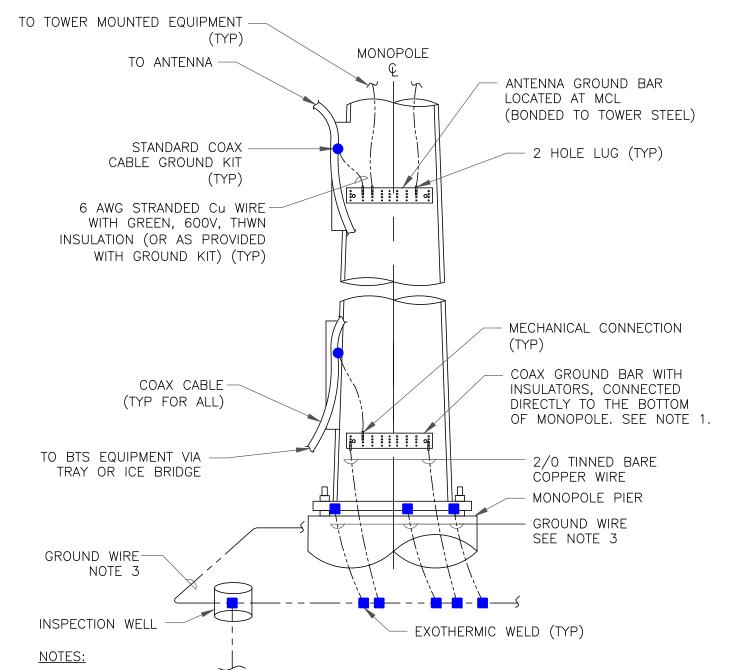




- 1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

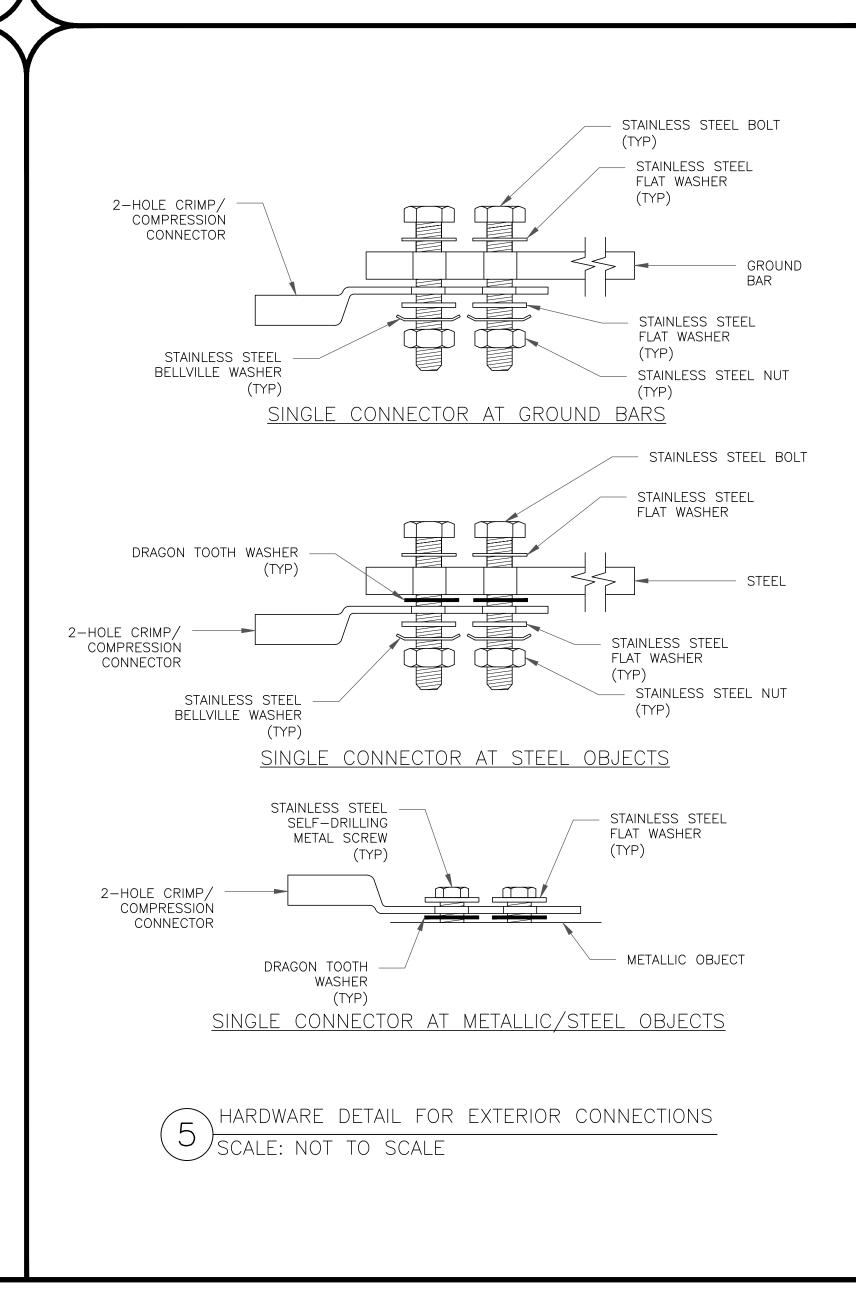


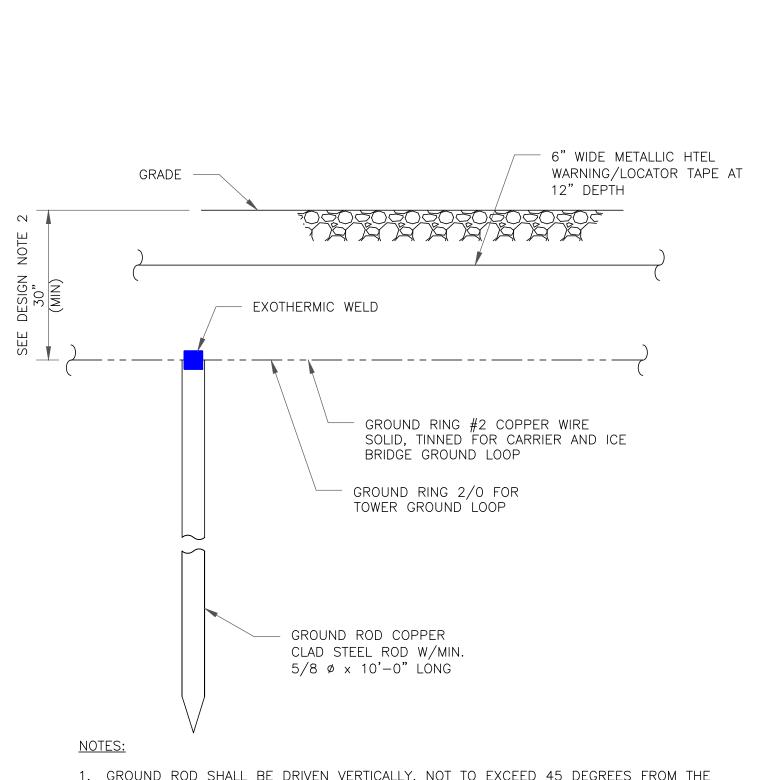




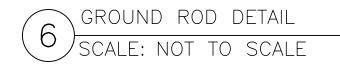
- 1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- 2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- 3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

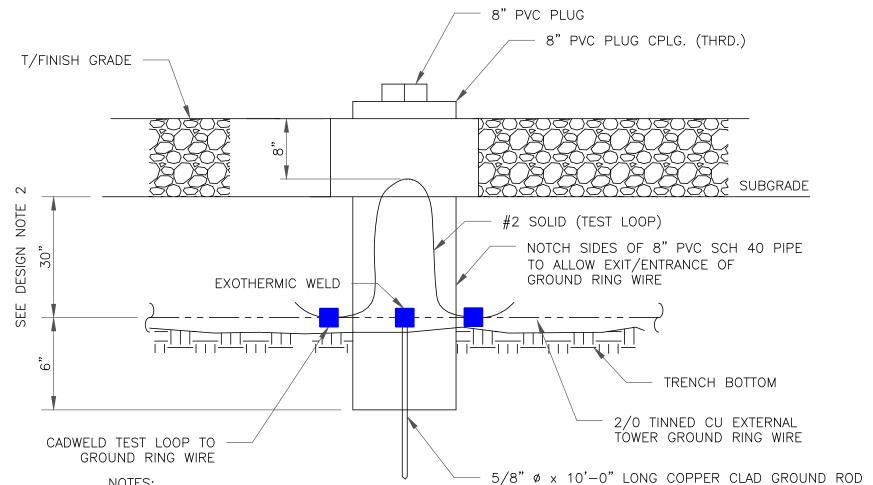






- 1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE
- 2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)





- 1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE
- 2. 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)









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745 N WARM SPRINGS ROAD SALT LAKE CITY, UT 84116

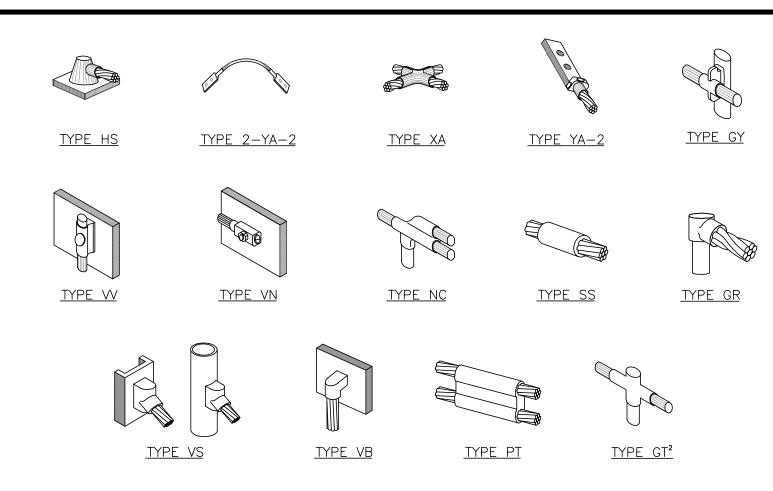
EXISTING 61.0 FT MONOPOLE

ISSUED FOR:							
REV	DATE	DRWN	DESCRIPTION	DES./QA			
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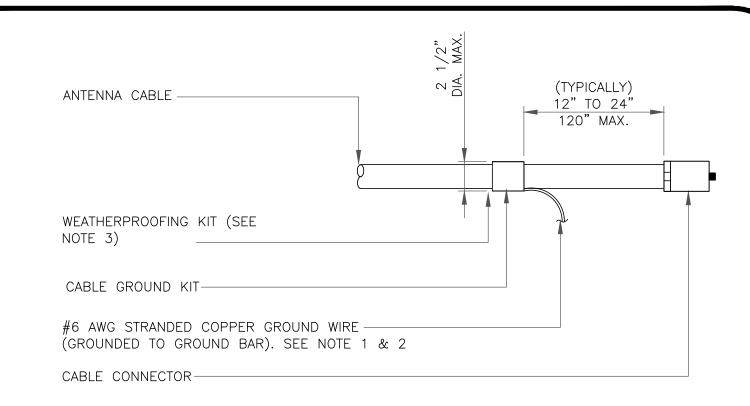


NOTE:

- 1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC
- MOLDS TO BE USED FOR THIS PROJECT.

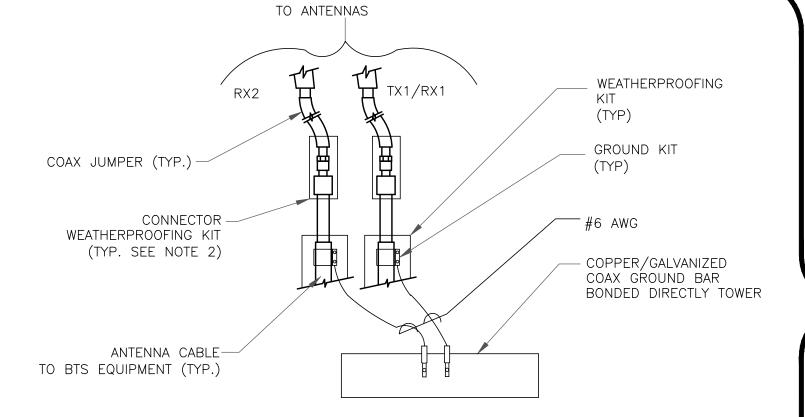
 2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

CADWELD GROUNDING CONNECTIONS SCALE: NOT TO SCALE



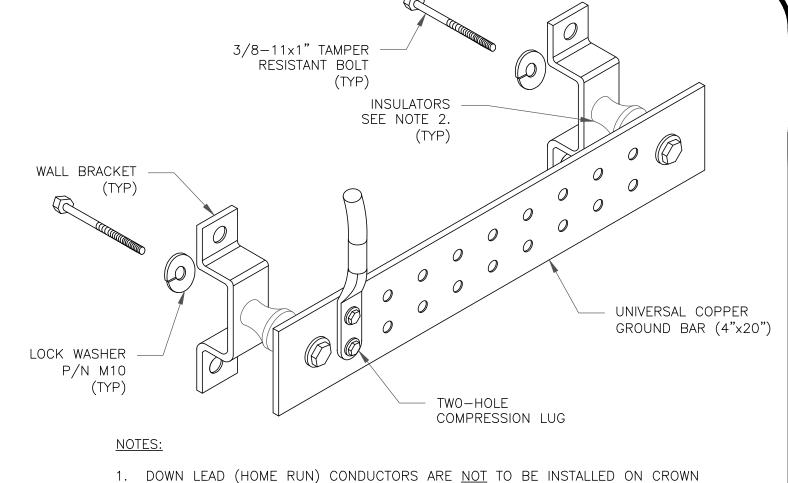
- NOTES:
- 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- 3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED
- CABLE GROUND KIT CONNECTION

SCALE: NOT TO SCALE



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

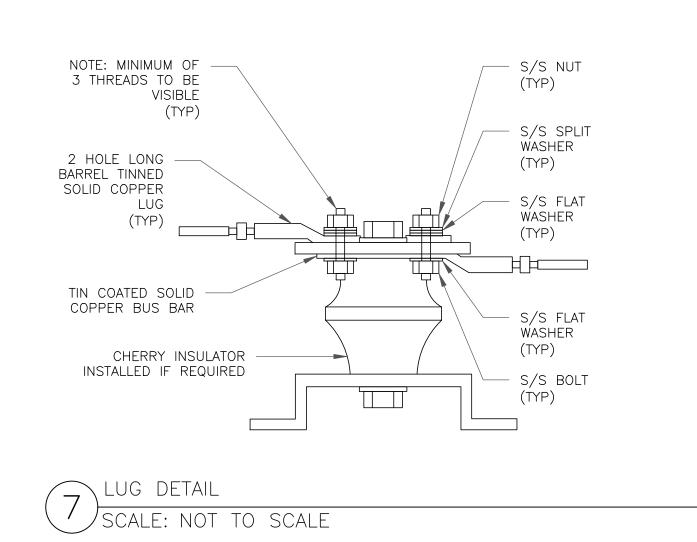
 SCALE: NOT TO SCALE



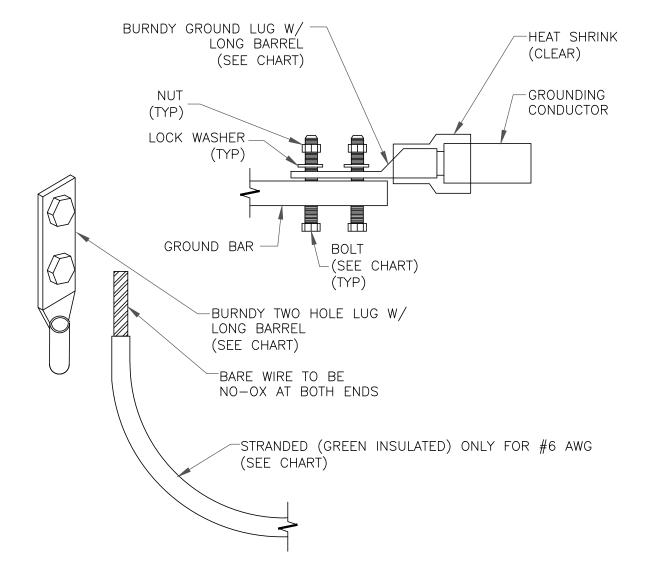
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE <u>NOT</u> TO BE INSTALLED ON CROWN CASTLE TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS—STD—10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD—WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL SCALE: NOT TO SCALE



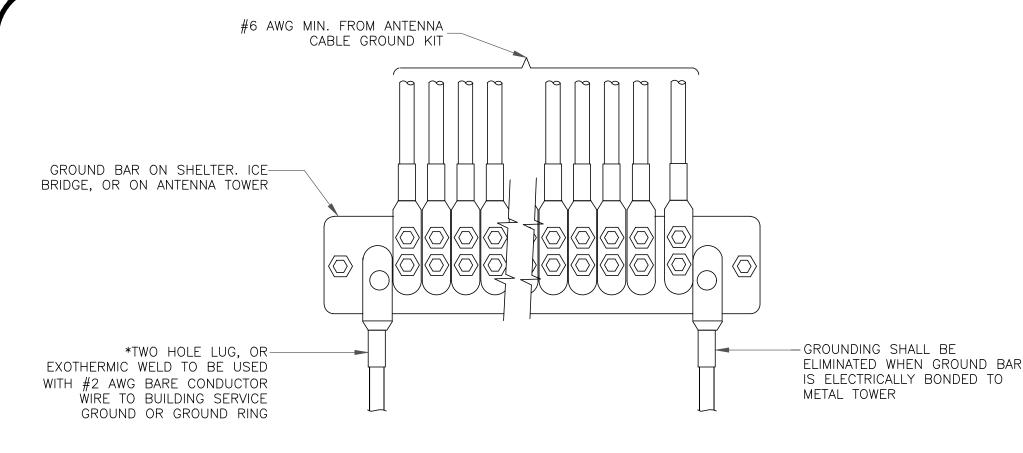




NOTES:

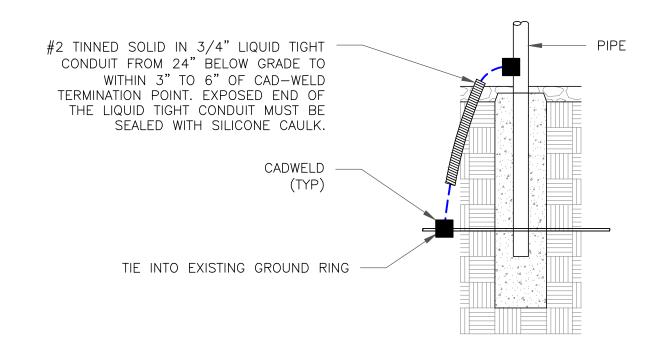
1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL
HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG,
FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION SCALE: NOT TO SCALE



GROUNDWIRE INSTALLATION

SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL SCALE: NOT TO SCALE

T - Mobile - 12920 SE 38TH STREET BELLEVUE, WA 98006





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(8