Cell Site No. DA01265A Name: Dallas North Water Tower Address: 2409 W. Plano Parkway

THIRD AMENDMENT TO COMMUNICATIONS FACILITIES LICENSE

THIS THIRD AMENDMENT TO COMMUNICATIONS FACILITIES LICENSE AGREEMENT ("Amendment"), dated as of the latter of the signature dates below, is by and between City of Plano, having a mailing address of 4120 West Plano Parkway, Plano, Texas 75093 (hereinafter referred to as "Licensor") and T-Mobile West LLC, a Delaware limited liability company, having a mailing address of 12920 SE 38th Street, Bellevue, WA 98006 (hereinafter referred to as "Licensee").

WHEREAS, Licensor and Licensee entered into a Communications Facilities License dated November 17, 2000, a First Amendment to Communications Facilities License on April 3, 2013, and a Second Amendment to Communications Facilities License on October 2, 2016, whereby Licensor licensed to Licensee certain Premises, therein described, that are a portion of the Property located at 2409 W. Plano Parkway, Plano, Texas (collectively "Agreement"); and

WHEREAS, Licensor and Licensee desire to modify, as set forth herein, the rent payable under the Agreement; and

WHEREAS, Licensee desires to modify the Site Plan as currently included in the Agreement and alter and make improvements to the Property or Premises as indicated on the Site Plan attached hereto as Appendix "A"; and

WHEREAS, based upon the Site Plan attached hereto as Appendix "A" and pursuant to the City of Plano's existing rate structure for the attachment of communications facilities to City water towers, approval of the Site Plan attached hereto as Appendix "A" will result in a modified rent payment becoming due for the remaining term of the Agreement; and

WHEREAS, Licensor and Licensee, in their mutual interest, wish to amend the Agreement as set forth below accordingly.

NOW THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Licensor and Licensee agree as follows:

1. **Rental Fees.** Appendix "B" of the License Agreement, Payment Terms and Conditions, is hereby modified to reflect that the LICENSEE's monthly Rental Fee upon the execution of this Third Amendment shall be increased by Three Thousand Three Hundred Thirty-Eight and 81/100 Dollars (\$3,338.81) per month so that the total monthly Rental Fee shall thereafter be in the amount of Five Thousand Sixty-Two and 53/100 Dollars (\$5,062.53) per month for a total of Sixty Thousand Seven Hundred Fifty and 36/100 Dollars (\$60,750.36) annually. Said increase shall become effective on the effective date of this Third Amendment. Any increased rent due and payable under the terms of this Third Amendment for the remainder of the

current month (i.e. until LICENSEE's next monthly payment becomes due) shall be pro-rated based upon the new Rent Payment identified herein and shall become due and payable at the time of LICENSEE's next monthly payment. Rental Fees shall continue to be increased each year by three percent (3%) of the previous year's Rental Fee, including the next year after the execution of this Third Amendment.

2. **Equipment.** Licensor consents to the equipment modifications all in the manner in accordance with the Site Plan attached hereto as Appendix "A" and incorporated herein by reference.

3. **Other Terms and Conditions Remain.** In the event of any inconsistencies between the Agreement and this Third Amendment, the terms of this Third Amendment shall control. Except as expressly set forth in this Third Amendment, the Agreement otherwise is unmodified and remains in full force and effect. Each reference in the Agreement to itself shall be deemed also to refer to this Third Amendment.

4. **Capitalized Terms**. All capitalized terms used but not defined herein shall have the same meanings as defined in the Agreement.

[this space intentionally left blank]

IN WITNESS WHEREOF, the parties have caused their properly authorized representatives to execute and seal this Third Amendment on the dates set forth below.

CITY OF PLANO, TEXAS

By:_____ Mark D. Israelson CITY MANAGER

Date:_____

APPROVED AS TO FORM:

BY: ______
Paige Mims, CITY ATTORNEY

Date: _____

T-MOBILE WEST LLC A DELAWARE LIMITED LABILITY
COMPANY
By: Name: JENN 1/CEP/JSTWEIRA Title: SVP ENGINEERING
Date: <u>9-3-2021</u>
Dutab

/

TMO ^{stgned by} TMO Legal Date: Legal 2021.08.17 06:24:30

LICENSOR ACKNOWLEDGEMENT

STATE OF TEXAS

COUNTY OF COLLIN

BEFORE ME, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared Mark D. Israelson known to me to be the person and officer whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for and as the act of the CITY OF PLANO, of the State of Texas, Collin County, Texas, and as the City Manager thereof, and for the purposes and consideration therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____day of _____, 2021.

Notary Public in and for the State of Texas

My Commission Expires _____

LICENSEE ACKNOWLEDGEMENT

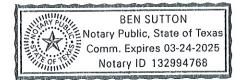
STATE OF	Texas

COUNTY OF Collin

BEFORE ME, the undersigned authority, on this day personally appeared, Jehnifer J. Silve ina (Name) JVP of Chamcering (Title) of T-Mobile West LLC, a Delaware limited liability company, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of the said T-Mobile West LLC, and that he executed the same as the act of such Corporation for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this <u>Jert onber</u>, 2021.

Notary Public in and for the State of Texas



Appendix "A"

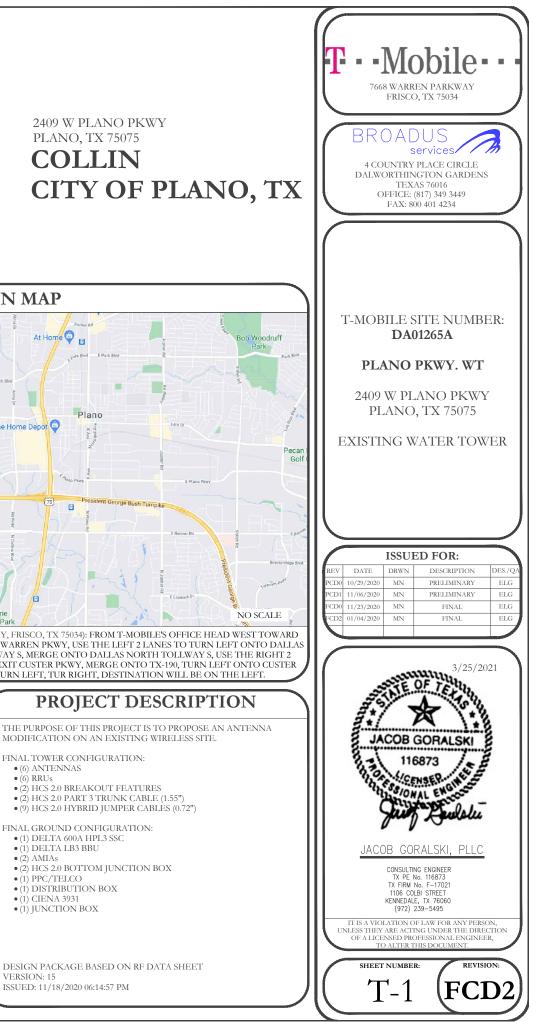
T-MOBILE SITE NUMBER: DA01265A T-MOBILE SITE NAME: PLANO PKWY. WT SITE TYPE: WATER TOWER **TOWER HEIGHT:**

SITE ADDRESS: **COUNTY:** JURISDICTION:

Appendix A

2409 W PLANO PKWY PLANO, TX 75075 **COLLIN**

T-MOBILE ANCHOR PROJECT SITE INFORMATION **DRAWING INDEX** LOCATION MAP (289) PLANO PKWY. WT SITE NAME SHEET DESCRIPTION SHEET # At Home 😊 2409 W PLANO PKWY SITE ADDRESS: PLANO, TX 75075 COUNTY: COLLIN ENLARGE EXISTING AREA OF CONSTRUCTION: EXISTING FINAL SITE ELEVATION & ANTENNA MOUNT EXISTING & FINAL AN 33° 0' 33.0984" LATITUDE: Plano RFDS PLUMBING DIAGRAM -96° 44' 26 001' LONGITUDE: (289) EOUIPMENT SPECIFICATIO LAT/LONG TYPE: NAD83 EQUIPMENT SPECIFICATION EXTERIOR STEEL PAINTING SPECIFICAT GROUND ELEVATION: 699.45 FT TEMPORARY CONSTRUCTION FENCE SPECIFICAT GROUN CURRENT ZONING: N/A GROUNDING DETAILS GROUNDING DETAIL CITY OF PLANO, TX IURISDICTION: OCCUPANCY CLASSIFICATION: U NED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY AL TYPE OF CONSTRUCTION: ΠB ING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY FY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WOR 0 OR BE RESPONSIBLE FOR SAME A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION **APPROVALS** PROPERTY OWNER CITY OF PLANO DRIVING DIRECTIONS FROM T-MOBILE LOCAL OFFICE (7668 WARREN PARKWAY, FRISCO, TX 75034): FROM T-MOBILE'S OFFICE HEAD WEST TOWARD MCCANDLESS WAY, TURN LEFT ONTO MCCANDLESS WAY, TURN RIGHT ONTO WARREN PKWY, USE THE LEFT 2 LANES TO TURN LEFT ONTO DALLAS APPROVAL SIGNATURE DATE PKWY, USE THE LEFT LANE TO TAKE THE RAMP ONTO DALLAS NORTH TOLLWAY S, MERGE ONTO DALLAS NORTH TOLLWAY S, USE THE RIGHT 2 ELECTRIC PROVIDER: TBD LANES TO MERGE ONTO PRESIDENT GEORGE BUSH TURNPIKE E, TAKE THE EXIT CUSTER PKWY, MERGE ONTO TX-190, TURN LEFT ONTO CUSTER RD, TURN LEFT ONTO CUSTER RD, TURN LEFT ONTO NORTHCREST DR, TURN LEFT, TUR RIGHT, DESTINATION WILL BE ON THE LEFT. PROPERTY OWNER OR REP. LAND USE PLANNER TELCO PROVIDER: TBD APPLICABLE CODES/REFERENCE T-MOBILE **DOCUMENTS** MODIFICATION ON AN EXISTING WIRELESS SITE **PROJECT TEAM** OPERATIONS ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING FINAL TOWER CONFIGURATION: CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. • (6) ANTENNAS DESIGNER FIRM BROADUS SERVICES NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK • (6) RRUs 4 COUNTRY PLACE CIRCLE NOT CONFORMING TO THESE CODES: • (2) HCS 2.0 BREAKOUT FEATURES DALWORTHINGTON GARDENS, TX 76016 NETWORK CODE IBC 2018 • (2) HCS 2.0 PART 3 TRUNK CABLE (1.55") CODE TYPE BUILDING PH: (817) 349-3449 • (9) HCS 2.0 HYBRID JUMPER CABLES (0.72") MECHANICAL IMC 2018 BACKHAUI ENGINEER FIRM: JACOB GORALSKI, PLLC ELECTRICAL NEC 2017 FINAL GROUND CONFIGURATION: 1106 COLBI STREET • (1) DELTA 600A HPL3 SSC CONSTRUCTION MANAGER KENNEDALE, TX 76060 **REFERENCE DOCUMENTS:** • (1) DELTA LB3 BBU PH: (972) 239-5495 NOTES • (2) AMIAs STRUCTURAL ANALYSIS: BY JACOB GORALSKI CONTACT: JACOB GORALSKI, P.E. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT • (2) HCS 2.0 BOTTOM JUNCTION BOX PROIECT # . T-MOBILE CONSTRUCTION MANAGER DATED OCTOBER 26, 2020 • (1) PPC/TELCO • (1) DISTRIBUTION BOX CARRIER/APPLICANT: T-MOBILE MOUNT ANALYSIS: BY TEAM COMMUNICATIONS THE HEIGHT OF THE TOWER WILL NOT BE INCREASED; NOR WILL • (1) CIENA 3931 7668 WARREN PARKWAY THERE BE AN EXPANSION OF THE GROUND/LEASE AREA • (1) JUNCTION BOX DATED OCTOBER 6, 2020 FRISCO, TX 75034 CONTACT: MICHELLE SHERWOOD-SMITH PH: (972) 464-3926 THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE CALL TEXAS ONE CALL DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL (800) DIG-TESS CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE CALL 3 WORKING DAYS DESIGN PACKAGE BASED ON RF DATA SHEET BEFORE YOU DIG! LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND VERSION: 15 MODIFICATIONS THEY MAY IMPOSE ISSUED: 11/18/2020 06:14:57 PM



SITE WORK GENERAL NOTES:	MASONRY_NOTES:	ELECTRICAL INSTALLATION 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 	 HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N. TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY 	 ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AN CODES/ORDINANCES. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL IN THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZA WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHA
PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SUBJOUNTATION 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. 3. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.	 GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED. 	3. WIRING, KACEWAY AND SUPPORT METHODS AND MATERIALS SHA REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQU 4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM (REQUIRED BY THE NEC. 5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABL
 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. 	<u>GENERAL_NOTES:</u>	6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-C ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH 7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WIT COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH TI PHASE CONFIGURATION, POWER OR AMAPA
 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. 	FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR- SUBCONTRACTOR- CENERAL CONTRACTOR (CONSTRUCTION) CARRIER- TOWER OWNER- OEM- ORIGINAL EQUIPMENT MANUFACTURER PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE	 BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT 8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKEF SHALL BE CLEARLY LABELED WITH PLASTIC LABELS. 9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING SHARP EDGES. 10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING 11. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING
 THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION. 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. 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. 	TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CUNTIENT THAT THE WORK CAN BE ACCOMPUSHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND T-MOBILE 2. 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.	 SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESIS CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED SPECIFIED. 11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTNI THHI INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90 OPERATION LISTED OR LABELED FOR THE LOCATION AND RACE UNLESS OTHERWISE SPECIFIED.
 NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER. 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/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND T-MOBILE STANDARD INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION). 	 DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. "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. 	 POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, S MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), E THHIN OR THMN-2, CLASS B STRANDED COPPER CABLE RATED DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOF UNLESS OTHERWISE SPECIFIED. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP- WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQU NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75 AVAILABLE). RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOF ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
STRUCTURAL STEEL NOTES: 1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED. 2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"%) CONNECTIONS AND	 IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPARED AT SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTERNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION. 	 ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CI SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS. DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE INDOOR LOCATIONS. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHED ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEX CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMF APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS AND
 SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. 3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE. 4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PROR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. 	11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS. ABBREVIATIONS AND SYMBOLS: ABBREVIATIONS: SYMBOLS:	 CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR EL ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A I TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR NEMA 1 (OR BETTER). CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APP STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING H/ WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND
 CONCRETE AND REINFORCING STEEL NOTES: ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH	AGL ABOVE GRADE LEVEL ESTG SOLID GROUND BUS BAR BTS BASE TRANSCRIVER STATION ESTG SOLID NEUTRAL BUS BAR MIN. MINIMUM SOLID NEUTRAL BUS BAR SOLID NEUTRAL BUS BAR REF RADIO FREQUENCY SUPPLEMENTAL GROUND CONDUCTOR T.B.D. TO BE RESOLVED SUPPLEMENTAL GROUND CONDUCTOR TYP TYPICAL COLD NEUTRAL BUS BAR REG REQUIRED SUPPLEMENTAL GROUND CONDUCTOR GR RECOURD RING EG EQUIPRENT GROUND RING SINGLE-POLE THERMAL-MAGNETIC GR GENERATOR CHEMICAL GROUND ROD BC EQUIPRENT GROUND BAR SINGLE-POLE THERMAL-MAGNETIC GR GENERATOR CHEMICAL GROUND ROD GR GENERATOR ACESS DEVICE GR GENERATOR CHEMICAL GROUND RING IGR INTERIOR GROUND RING (HALO) METER RBS RADIO BASE STATION METER EXOTHERWISE NOTED) METER EXOTHERWISE NOTED) METER EXOTHERWISE NOTED) MECHANICAL CONNECTION GR GROUNDING WIRE GROUNDING WIRE	 PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEIL SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUIT TEMPORARILY CAPPED TFUSH TO FINISH GRADE TO PREVENT C DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TI GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZ DO RATED NALEADLE AND INSIDE. 23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND GALVANIZE OR EPOXY-COATED SHEET STEEL; SHALL MEET OR RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETT 37. MICH AND DEVICE BOXES SHALL BE GAL OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP 25. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP 25. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP 26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP 27. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY A CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER 27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICAE STANDARDS TO SAFEGUARD LIFE AND PROPERTY. 28. INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "T-1 29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED INSTALLED.

1.

- 3.
- EQUIPMENT
- GROUND BUS ARE PERMITTED.

- CONNECTIONS BELOW GRADE.
- EXOTHERMIC WELD CONNECTIONS
- - CORROSION RESISTANT MATERIAL.

 - AS WELL).
 - DESCRIPT 240/120 AC NEUT GROUND (VDC PO VDC NEO 240V OR 208 480V .30

- Appendix A
 - WITH THE PROJECT
 - NSTALL CONDUITS SO ARDS ARE ELIMINATED.
 - ALL COMPLY WITH THE JIRED BY T-MOBILE.
 - CABLE SEPARATION AS
 - LE TRAY RUNGS. HOTS), GROUNDING AND CODED INSULATION OR WITH UV PROTECTION, NEC AND OSHA.
 - TH PLASTIC TAPE PER HEIR VOLTAGE RATING, ACITY RATING AND ID'S).
 - RS (CIRCUIT ID NUMBERS)
 - TOOL TO REMOVE
 - OR CONDUIT SHALL BE ISTANT THHN OR THWN-2, & DRY) OPERATION LISTED UNLESS OTHERWISE
 - SHALL BE SINGLE OR THWN-2 GREEN 90° C (WET AND DRY) EWAY SYSTEM USED
 - SHALL BE 600 V, OIL RESISTANT FOR 90° C (WET AND THE LOCATION USED
 - STYLE, COMPRESSION AL). LUGS AND WIRE 5° C (90° C IF
 - ELECTRICAL USE IN
 - ONDUIT (I.E. RIGID PVC SUBJECT TO PHYSICAL
 - TUBING (ENT) OR RIGID USED FOR CONCEALED
 - ULE 80 PVC FOR ALL
 - SHALL BE USED
 - PRESSION-TYPE AND RE NOT ACCEPTABLE.
 - ECTRICAL USE IN
 - HINGED COVER, DESIGNED EQUAL); AND RATED
 - PROVED NON-PERFORATED HANGERS TO STRUCTURE HE STRUCTURE, MAINTAIN IN TIGHT ENVELOPES. L BE MADE WITH CONDUIT DN WORKMANLKE MANNER. ZILING LINES. ALL CONDUIT UITS SHALL BE CONCRETE, PLASTER OR) TO BOXES BY NIZED MALLEABLE IRON
 - PULL BOXES SHALL BE EXCEED UL 50 AND ER) OUTDOORS.
 - LVANIZED, EPOXY-COATED NEMA OS 1: AND RATED OR BETTER) OUTDOORS.
 - MEET OR EXCEED NEMA R PROTECTED (WP OR
 - AUTHORIZATION FROM THE DISTRIBUTION PANELS.
 - N THE BREAKERS, CABLES BLE CODES AND
 - MOBILE"
 - MULE TAPE PULL CORD

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-POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUNI 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.

5. 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, SHAL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS

6 FACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER CROUND 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.

7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE

8. 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.

10. 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

12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY

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

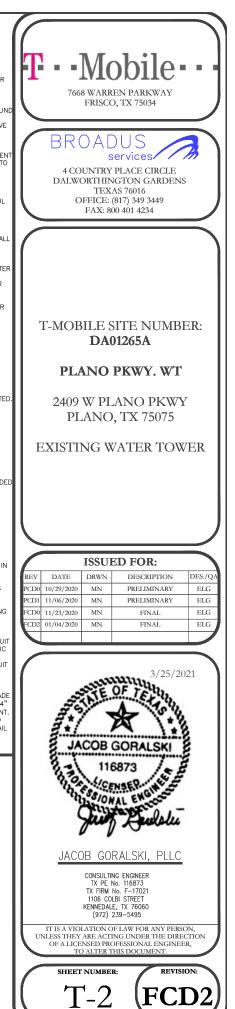
MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, I ACCORDANCE WITH THE NEC.

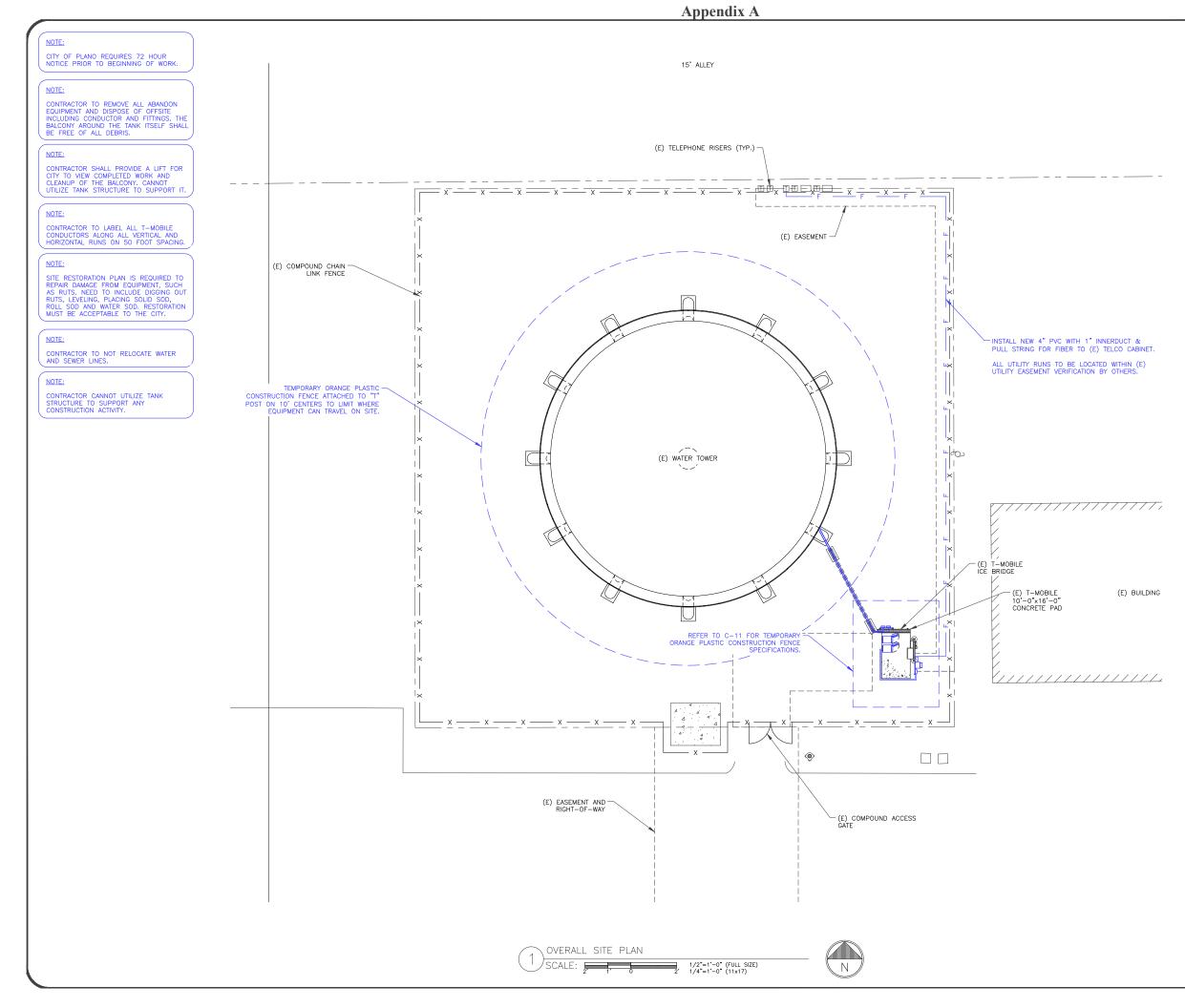
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR

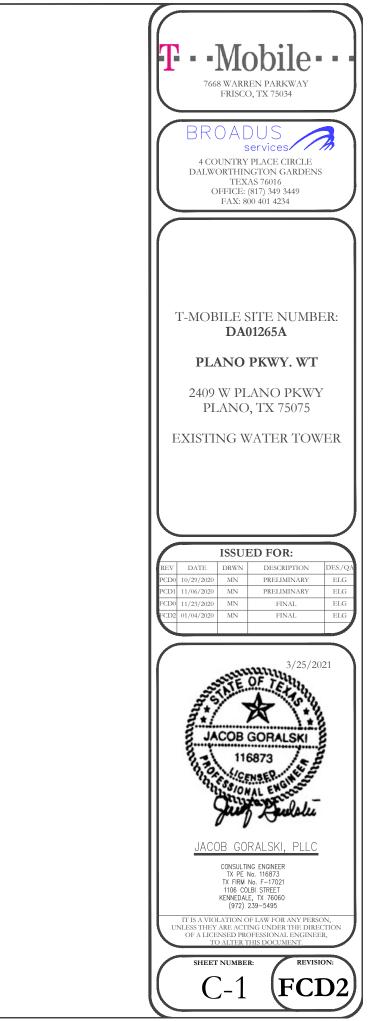
19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLUPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET 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.

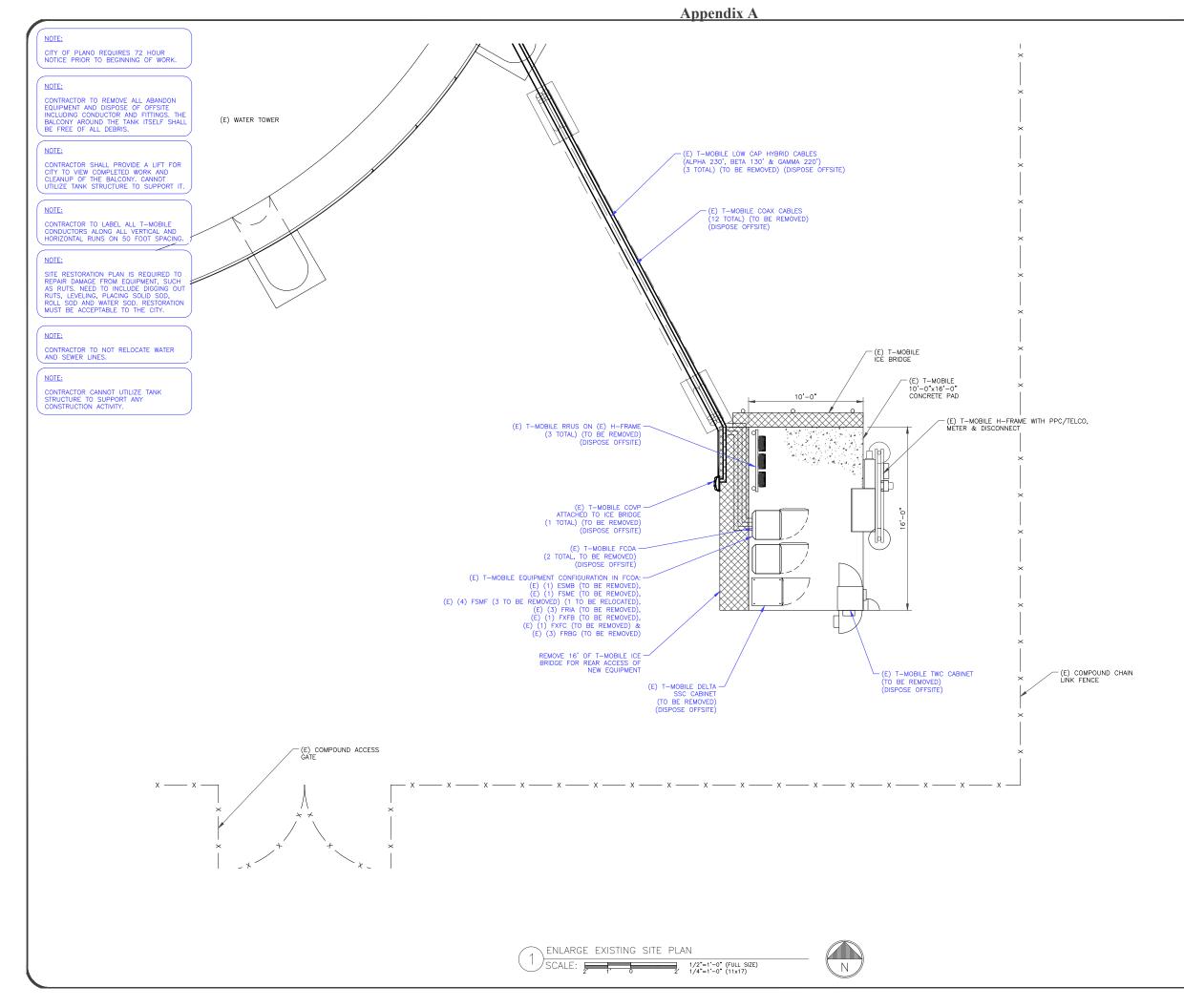
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADI MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAI

NEC INSULATOR COLOR CODE				
DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR		
240/120 1Ø	LEG 1	BLACK		
240/120 10	LEG 2	RED		
AC NEUTRAL	N	WHITE		
GROUND (EGC)	G	GREEN		
VDC POS	+	*RED-POLARITY MARK AT TERMINATION		
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION		
	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 OR PURPLE		
	PHASE C	YELLOW		
* SEE NEC 210.5(C)(1) AND (2)			

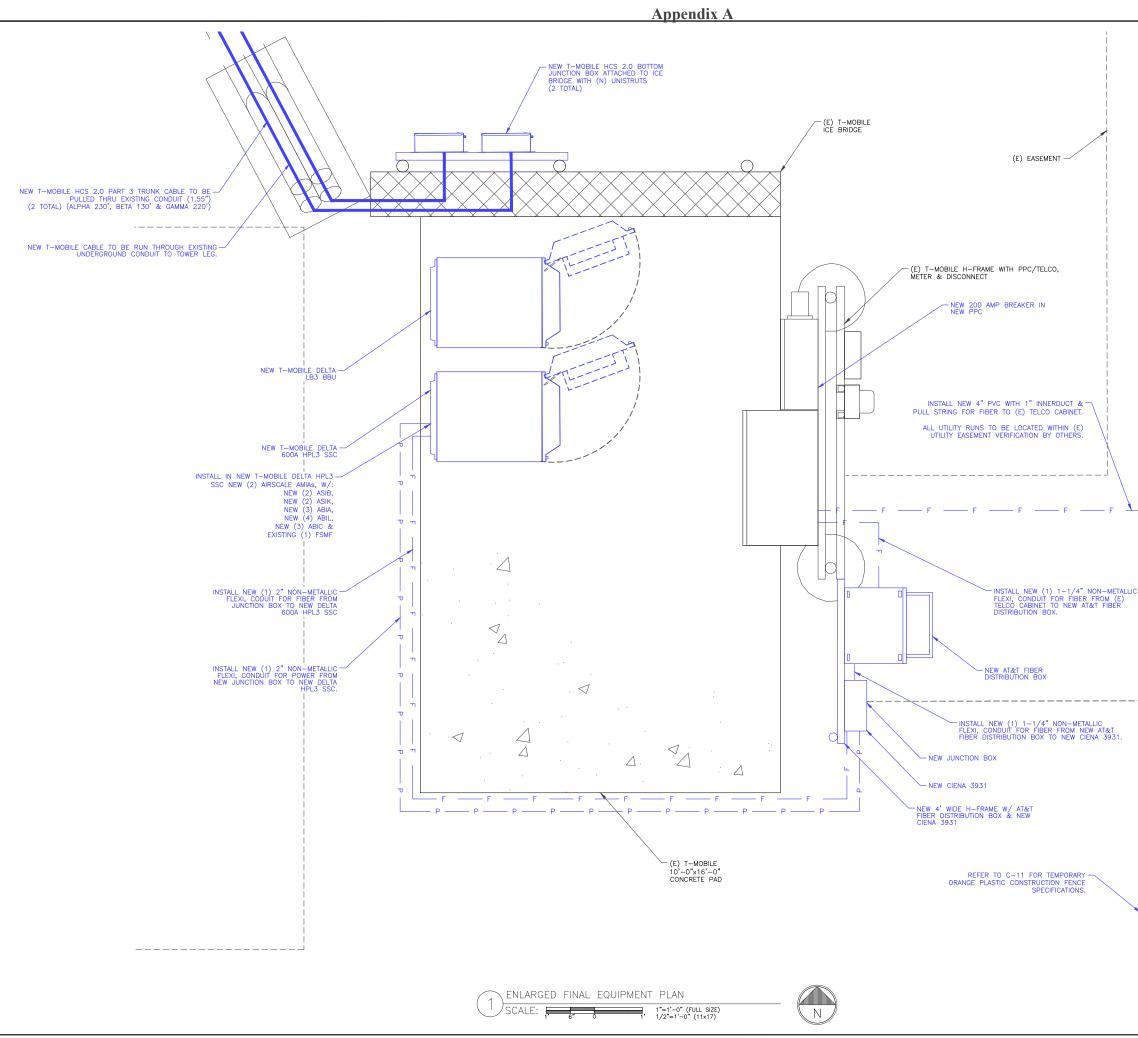


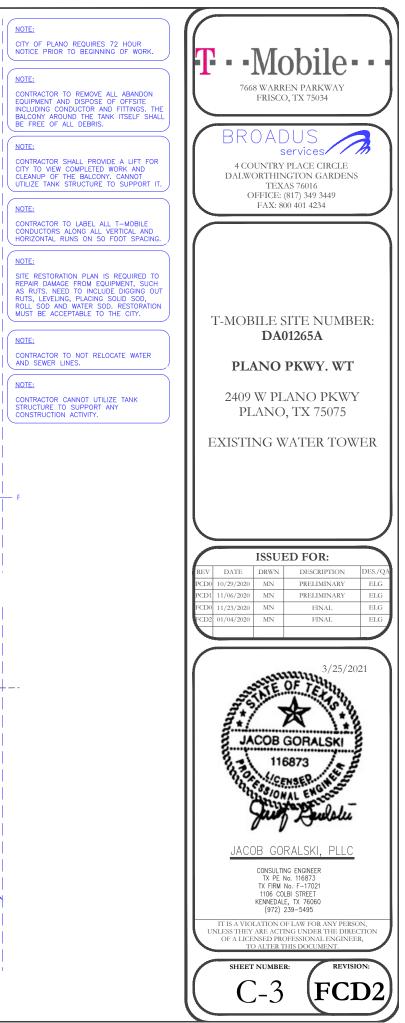


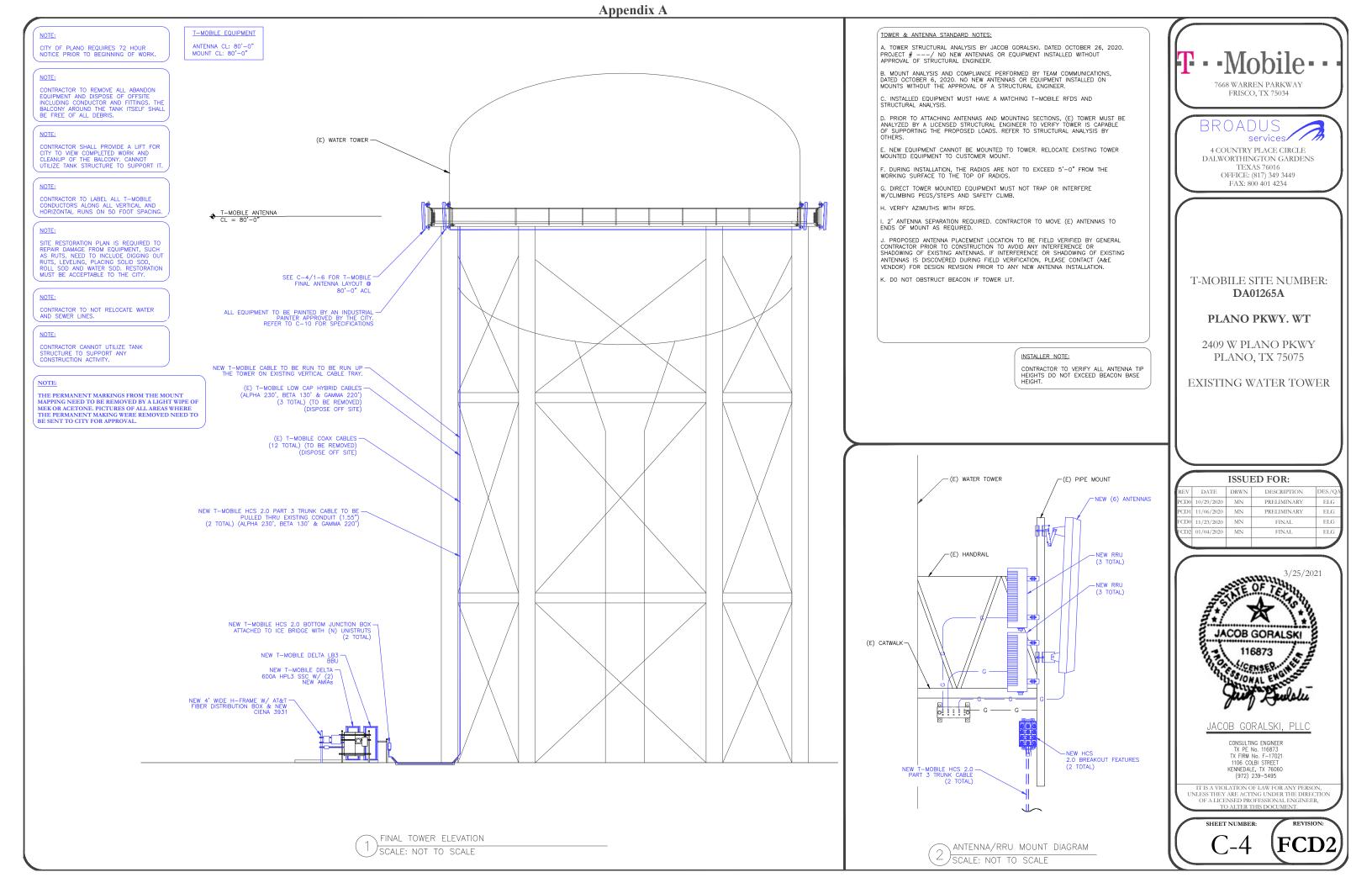


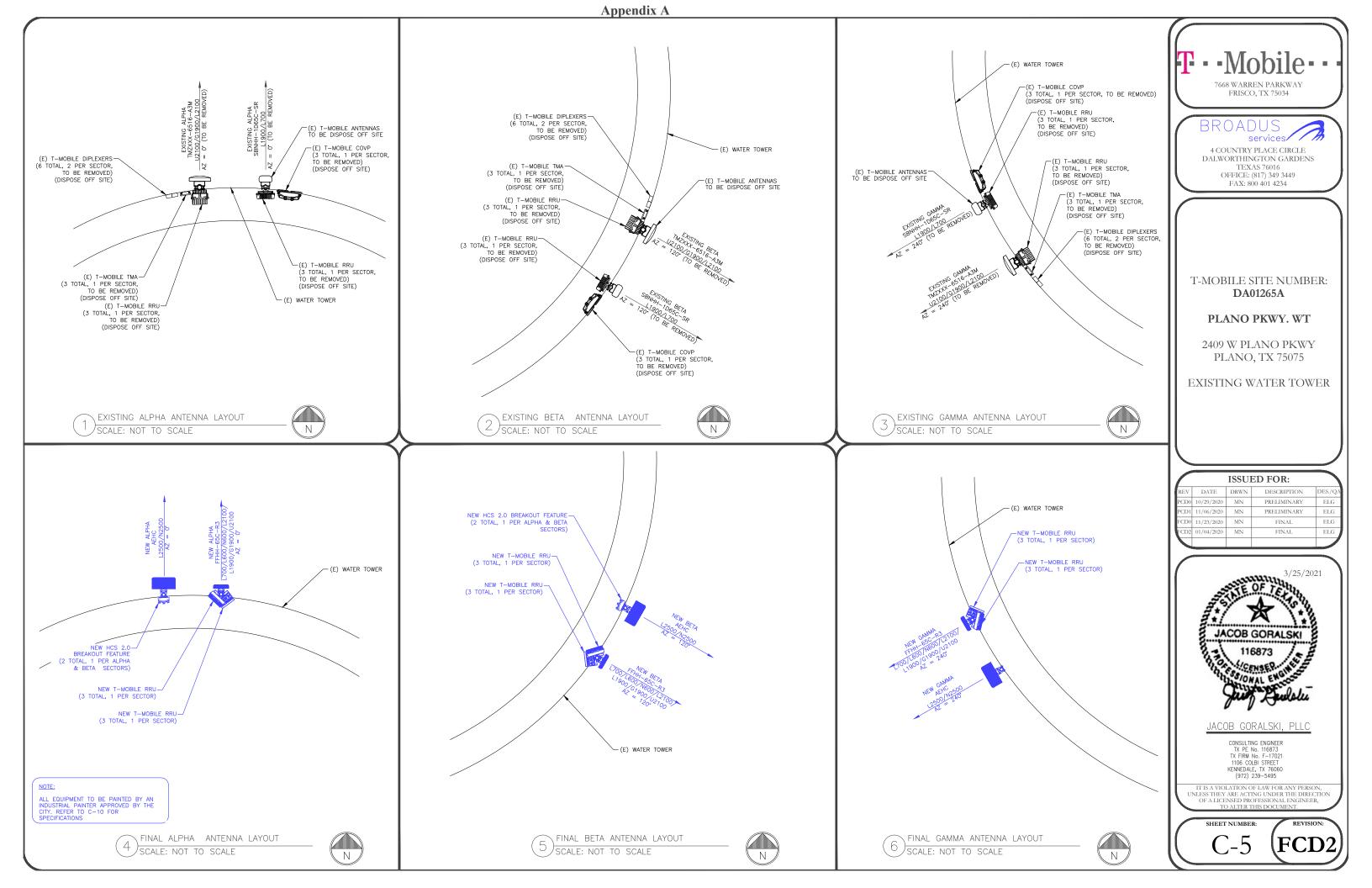












		Section 1 - Sit	e Information	
Approved By Last Modified		Site Name: Plano Pkwy. W Site Class: Watertank Site Type: Structure Non B Plan Year: 2020 Market: DALLAS TX Vendor: Nokia Landlord: City of Plano M	uilding Longitu City, Sta	e: 33.00919400 de: -96.74055600 s: 2400 W Plano Pkwy ate: Plano, TX SOUTH
RAN Template	: 56791EZ_SR_U21		AL Template: 56791EZ_SR_U21	
Sector Count:	3 Antenna Count: 6	Coax Line Cou	nt: 0 TMA Count: 0	RRU Count: 6
		Proposed RA	N Equipment	
		Template: 567	91EZ_SR_U21	
Enclosure	1	2	3	4
Enclosure Type	(Generic 600A Site Support Cabinet)	(Tower Top Mount (Nokia))	(Ancillary Equipment (Nokia))	Generic Battery Cabinet for 600A
Baseband	ASIB L700 L600 L2000 L900 L900 L900 L2000			
Baseband Submodule	ABIA (x 2) L2100 L200 ABIC (x 3) ABIC (x 3) ABIC (x 3)			
Baseband Subrack	(AMIA (x 2))			
Hybrid Cable System	Voltage Booster needed if hybrid under 250'	Nokia HCS 2.0 Jumper Cable Airscale "Select Length" (x 9)	Nokia HCS 2.0 Trunk *Select Length* (x 2)	
	Extra Booster Amplifier needed if hybrid under 250			
Junction Box			Nokia HCS 2.0 Tower Junction (x 2)	л Важ
Power subsystem	(Rectifier Shelf "Select size") (Breakers "Select size")			(Batteries "Select size")
Radio		AHLOA (x 3) L700 L600 N600 L2100 G1900 U2100		
Transport System	(CSR IXRe V1 (Gen1))			

6/6/2020

-Project Type: Anchor, L700 4x2 -Project CD: DA01265A - Site Modification (2942950)

-Proposed Equipment on Top: 1) Antennas - CommScope-FFHH-86C-R3 (3x) | AEHC (3x) 2) Radios - AHFIG (3x) | AH-LOA (3x) 3) HCS 2.0 (2x) 4) Nobia Ansole Jumper cable (9x) -TWR, Frequencies -TWR, Frequ

 $\begin{array}{l} -T_{\rm WRx} \mbox{ Frequencices:} \\ 1) \mbox{ AVS}(2100) \Rightarrow UL: 1710-1715, 1735-1766 \mbox{ MHz} | DL: 2110-2115, 2135-2155 \mbox{ MHz} \\ 2) \mbox{ PCS}(1000) \Rightarrow UL: 1865-1885 \mbox{ MHz} | DL: 1145-1865 \mbox{ MHz} \\ 3) \mbox{ 800} \Rightarrow UL: 685-673 \mbox{ MHz} | DL: 71-7427 \mbox{ MHz} \\ 4) \mbox{ 700} \Rightarrow UL: 698-773 \mbox{ MHz} | DL: 729-734 \mbox{ MHz} \\ 5) \mbox{ 2500} \Rightarrow 2496 \mbox{ MHz} -2690 \mbox{ MHz} \\ 5) \mbox{ 500} \Rightarrow 2496 \mbox{ MHz} -2690 \mbox{ MHz} \\ \end{array}$

Sector 1 (Proposed) view from front (Note: the images show view from behind) Coverage Type A - Outdoor Macro Antenna Antenna Model (AEHC (Active Antenna - Massive MIMO)) Commscope - FFHH-65C-R3 (Octo) Azimuth M. Tilt 0 0 Height 80 80 Ports P1 P2 P3 P4 P5 L2100 L1900 L2100 L1900 L2500 N2500 Active Tech. (L700) (L600) (L700) (L600) (N600) G1900) (U2100) (G1900) (U2100) N600 Dark Tech. Restricted Tech. Decomm. Tech. E. Tilt Cables TMAs Diplexers / Combiners Radio Sector Equipment

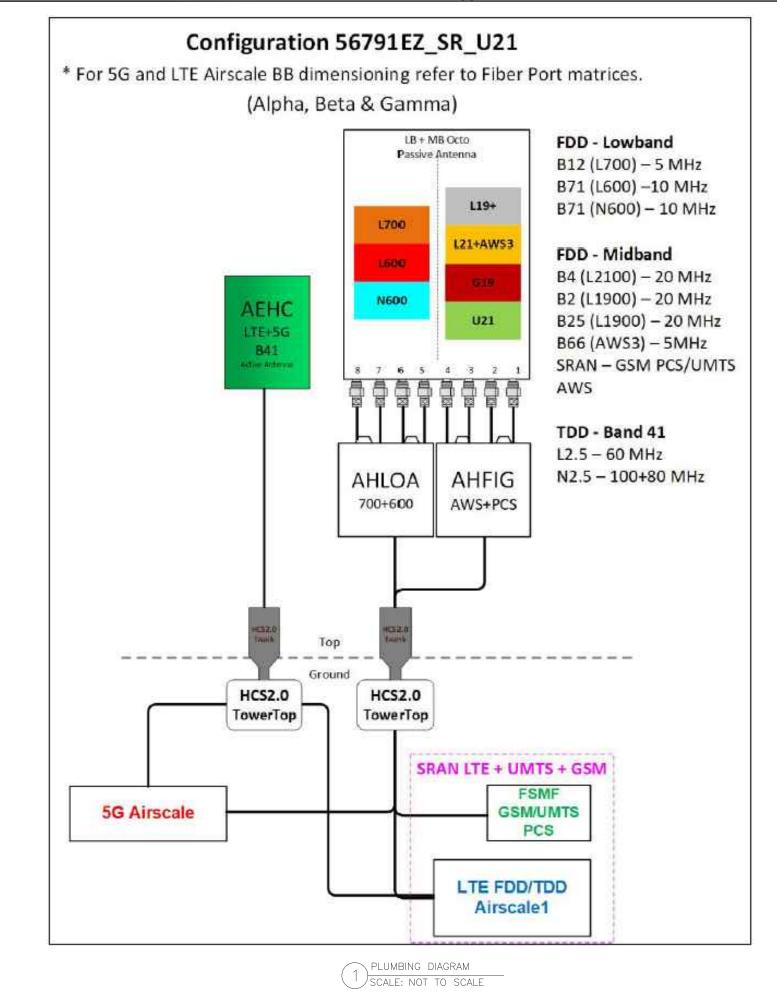
Appendix A

Coverage Type	A - Outdoor Mac	ro				
Antenna	1				2	
Antenna Model	Commscope - FFHH-65C-R3 (Octo)				AEHC (Active Antenna - Massive MIMO)	
Azimuth	(120)				(120)	
M. Tilt	0				0	
Height	(80)				80	
Ports	P1	P2	P3	P4	P5	
Active Tech.	L700 L600 N600	L700 L600 N600	(L2100) (L1900) (G1900) (U2100)	L2100 L1900 G1900 U2100	(12500) (N2500)	
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt						
Cables						
TMAs		1				
Diplexers / Combiners						
Radio		1				
horse and the set	1	1	1			
Sector Equipment						
Sector Equipment		Sector 3 (Prope	osed) view from	front (Note: the	e images show view from behind)	
Sector Equipment Coverage Type	A - Outdoor Mac		osed) view from	front (Note: the	e images show view from behind)	
Equipment	(A - Outdoor Mac		osed) view from	front (Note: the	e images show view from behind)	
Equipment Coverage Type				front (Note: the	1	
Equipment Coverage Type Antenna		ro		front (Note: the	2	
Equipment Coverage Type Antenna Model	Commscope - Fl	ro		front (Note: the	2 (AEHC (Active Antenna - Massive MIMO))	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt	Commscope - Fl	ro		front (Note: the	2 (AEHC (Active Antenna - Massive MIMO)) (240)	
Equipment Coverage Type Antenna Antenna Model Azimuth	Commscope - Fil	ro		front (Note: the	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0)	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt Height	Commscope - Fi 240 0 80	ro) FHH-65C-R3 (Octo))	1	1	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80)	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt Height Ports Active Tech.	Commscope - FI 240 0 80 P1 LT00 L600	P2 (1700) [600]	1 P3 (2100 (1900)	P4	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80) P5	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt Height Ports Active Tech. Restricted	Commscope - FI 240 0 80 P1 LT00 L600	P2 (1700) [600]	1 P3 (2100 (1900)	P4	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80) P5	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt Height Ports Active Tech. Dark Tech. Restricted Tech. Decomm.	Commscope - FI 240 0 80 P1 LT00 L600	P2 (1700) [600]	1 P3 (2100 (1900)	P4	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80) P5	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt Height Ports Active Tech. Dark Tech. Restricted Tech.	Commscope - FI 240 0 80 P1 LT00 L600	P2 (1700) [600]	1 P3 (2100 (1900)	P4	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80) P5	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt Height Ports Active Tech. Dark Tech. Restricted Tech. Decomm. Tech. E. Tilt	Commscope - FI 240 0 80 P1 LT00 L600	P2 (1700) [600]	1 P3 (2100 (1900)	P4	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80) P5	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt Height Ports Active Tech. Dark Tech. Restricted Tech. Decomm. Tech. E. Tilt Cables	Commscope - FI 240 0 80 P1 LT00 L600	P2 (1700) [600]	1 P3 (2100 (1900)	P4	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80) P5	
Equipment Coverage Type Antenna Antenna Model Azimuth M. Tilt Height Ports Active Tech. Dark Tech. Restricted Tech.	Commscope - FI 240 0 80 P1 LT00 L600	P2 (1700) [600]	1 P3 (2100 (1900)	P4	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80) P5	
Equipment Coverage Type Antenna Antenna Antenna Model Azimuth M. Tilt Height Ports Active Tech. Dark Tech. Restricted Tech. E. Tilt Cables TMAs Diplexers /	Commscope - FI 240 0 80 P1 LT00 L600	P2 (1700) [600]	1 P3 (2100 (1900)	P4	2 (AEHC (Active Antenna - Massive MIMO)) (240) (0) (80) P5	





Appendix A





AEHC AirScale MAA 64T64R 192AE n41 240W

Preliminary Technical datasheet

Specification	3GPP/FCC compliant, TDD
Frequency range	2496 - 2690 MHz
Max. supported modulation	256 QAM
Number of TX/RX paths	64T / 64R
MIMO streams	16
Instantaneous bandwidth IBW	194 MHz
Occupied bandwidth OBW	194 MHz
Total average EIRP	79.3 dBm
Max. output power per TRX	3.75 W / TRX (240 W total)
Antenna configuration	12 rows, 8 columns, 2 (±45° X-polarized)
Max. Antenna gain	25.5dBi
Horizontal beamwidth	15° (boresight)
Vertical beamwidth	6° (boresight)
Horizontal coverage angle	±45° (3 dB), ±60° (5 dB)
Vertical steering angle	±6°
Dimensions	TBD:900 mm (H) x 580 mm (W) x 210 mm (D)
Volume /Windward area	TBD:<110 L /<0.6m2
Weight	<45kg (without mounting brackets)
Supply voltage / Connector type	DC -40.5 V57 V / 2 pole connector
Power consumption	900 W typical (75% DL duty cycle, 30% RF load) 1300 W max (75% DL duty cycle, 100% RF load)



Optical ports	4 x SFP28, 10/25GE eCPRI (with R2CT)
Other interfaces / Connector type	Control AISG RF monitor port / SMA Female External Alarms / MDR26 status LED
Operational temperature range	-40 °C +55 °C
Cooling	Natural convection cooling
Ingress protection class	IP65
Installation options	Pole / Wall, ± 5° vertical adjustment
Surge protection	Class II 20 kA

Confidential © Nokia 2018

Termination

Single Mode

Termination

Max RRU

Fibers Fiber

1 '				FICATIONS	
J	SCALE:	NOT	ΤO	SCALE	

Breakout Feature General Specifications Alliance CommScope NWS Characteristics Alliance NWS Dimensions, in. 9.3x14.9x5.8 6.7x16.9x4.7 10.2x16.0x3.2 Weight 1.61 lb/ft 0.970 lb/ft 1.61 lb/ft Port Interface Senko U Senko U Senko U 12 12 12 Hybrid Ports CommScope Conductor





NOKIA

Product Specifications

FFHH-65C-R3

8-port sector antenna, 4x 617-806 and 4x 1695-2360 M **MHz-Ready Antenna Technology**



Frequency Band, MHz	617-698	698-806	1695-1880	1850-1990
Gain, dBi	15.3	15.5	17.8	18.2
Beamwidth, Horizontal, degrees	67	63	65	66
Beamwidth, Vertical, degrees	10.2	9.1	5.7	5.3
Beam Tilt, degrees	2-13	2-13	2-12	2-12
USLS (First Lobe), dB	19	17	20	19
Front-to-Back Ratio at 180°, dB	32	29	35	40
Isolation, dB	28	28	28	28
Isolation, Intersystem, dB	28	28	28	28
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc		-153	-153	-153
Input Power per Port, maximum, watts	300	300	300	300
Polarization	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	617-698	698-806	1695-1880	1850-1990	_
Gain by all Beam Tilts, average, dBi	15.0	15.2	17.4	17.9	
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.4	±0.5	
	2° 14.8	2° 15.0	2° 17.2	2° 17.6	
Gain by Beam Tilt, average, dBi	8° 15.1	8° 15.3	7° 17.5	7° 18.0	
	13° 15.0	13° 15.1	12 ° 17.4	12° 17.8	
Beamwidth, Horizontal Tolerance, degrees	±2.7	±4.8	±5.5	±5.2	
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.7	±0.4	±0.3	
USLS, beampeak to 20° above beampeak, dB	17	12	15	16	
Front-to-Back Total Power at 180° ± 30°, dB	23	21	29	31	
CPR at Boresight, dB	24	23	21	20	
CPR at Sector, dB	6	10	9	9	

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more a download the whitepaper Time to Raise the Bar on BSAs.

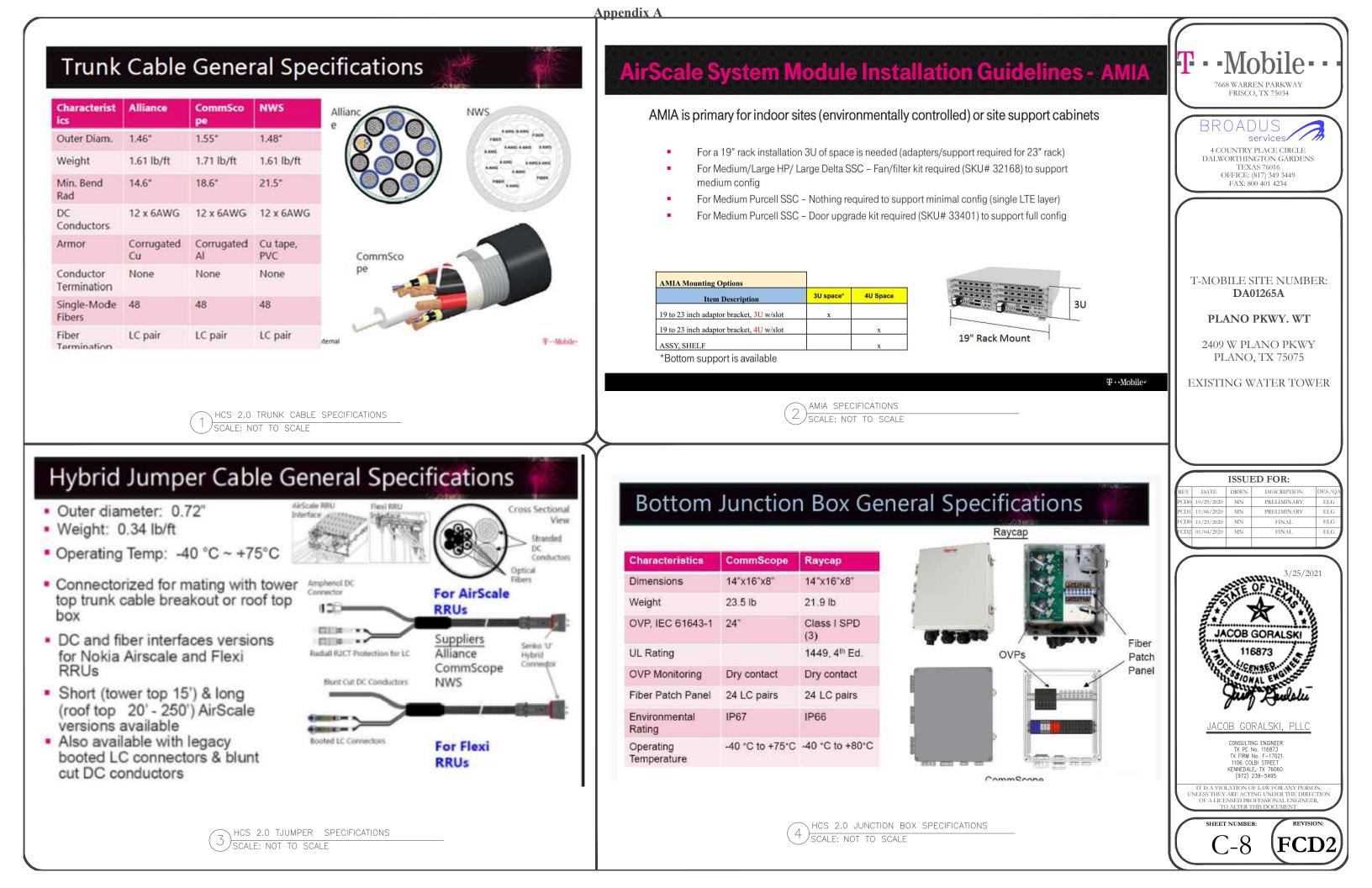
Array Layout

©2018 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommS All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: December 2017



HCS 2.0 BREAKOUT FEATURE SPECIFICATIONS 2) SCALE: NOT TO SCALE

COMMSCOP	• T • • Mobile • • • • • • • • • • • • • • • • • • •
60 MHz, 65° HPBW, 3x RET, 60	00 BROADUS services 4 COUNTRY PLACE CIRCLE DALWORTHINGTON GARDENS TEXAS 76016 OFFICE: (817) 349 3449 FAX: 800 401 4234
1920-2200 2300-2360 18.9 19.6 64 55 4.9 4.4 2-12 2-12 19 21 40 41 28 28 28 28 1.5 14.0 -153 -153 250 ±45° ±45° 50 ohm 50 ohm	T-MOBILE SITE NUMBER: DA01265A PLANO PKWY. WT 2409 W PLANO PKWY PLANO, TX 75075 EXISTING WATER TOWER
1920-2200 2300-2360 18.5 19.3 ±0.6 ±0.5 2° 18.1 2° 18.8 7° 18.6 7° 19.4 12° 18.4 12° 19.2	ISSUED FOR: REV DATE DRWN DESCRIPTION DES/QA PCD0 10/29/2020 MN PRELIMINARY ELG PCD1 11/06/2020 MN PRELIMINARY ELG FCD0 11/23/2020 MN FINAL ELG FCD2 01/04/2020 MN FINAL ELG
±4.9 ±6.4 ±0.4 ±0.1 16 18 31 31 21 22 9 8 ore about the benefits of BASTA,	JACOB GORALSKI 116873 SENSER 1000 ALLA
CommScope. cember 15, page 1 c January 5, 20	



Appendix A



Specifications

1 General		Delta Group Website:
Construction	Aluminum enclosure	www.deltaww.com
Dimensions	30 x 72 x 34.6 in. (762 x 1829x 879mm),	Product Website:
(W x H x D)	Depth with Door/Hatch: 44.7 in. (1136mm)	
Weight	~595 lbs (~270ka) (without customer equipme	ot or batteries) www.deltapowersolutions.com
the generation of the second se	Total Equipment space 30RU:	United States of America & Canad
	Horizontal rack: 19" x 27RU	Delta Electronics (USA) Inc.
Internal rack dimension	Vertical rack: 19" x 3RU	2925 E. Plano Parkway
	Power System space: 23" x 12RU	Plano, TX (Texas) 75074
Mounting options	Pad-mount, plinth option	
Finish	Polyester Power Paint (Tan)	Sales and Orders:
Safety	UL Listed , IEC / EN 60950	DEUSTPS Sales @deltaww.com
2 Environment	OF EISted (IEO' EIV OBEO	
Operating temperature	-40°C to +50°C (-40°F to +122°F) with solar lo	DEUSTPG.Orders@deltaww.co
Protection class	designed to GR-487	Field Support:
Acoustics	65dBA @5000W heat load , 70dBA @ 6000W	
Acoustics Humidity (relative)	95%, non-condensing (Max.)	
Humoty (relative) 3. Thermal Managemer		(877-335-8208 option 3)
		DEUSTPS.SupportBydeltaww.c
Cooling Equipment:	Direct Air Cooling, 6000W capacity, 5°C delta	
Heating Equipment. 4. Equipment	Forced air heating (2) 1000W AC heaters	Installation Services:
4. Equipment	Knock-out plate on each upper side wall / Add	DEUSTPS Services@deltaww.c
Cable entry		RMA
Door latch	(1) 3" conduit hole with hole plug	
Contraction of the second s	3 point latching, 5/16 nut driver tool, pad-locki	
Primary ground	10 double-hole 1/2-20 threaded holes on 5/8" of	senter ground bar
Lifting Ears	4 Lifting Tabs	
Plinth	Optional 6" plinth available	
1-	AC Load Center: 240V split phase, dual feed / (1) 200A + (1 208V 3-phase, single feed / (1) 200A AC Surge Protection for each breaker feed GFCI Receptacle 120V Temp Probes	1004
Standard equipment	(6 form-C) Alarm Termination block	
	605A/ 54V (336kW) redundant Power System	
	12 rectifier positions (3x55A DPR3000 rectifie	
	48 poles for load (2x10A, 3x50A, and 6x10DA load breakers included)	
	16 poles for battery	Summer of the local division of the local di
	(2) SB350 / (2) SB175 Battery connections	The second s
	(3) SB350 Generator connections	
Front Door:	(6) DC powered centrifugal fans with (3) MER	V-13 filters, (GORE option)
	Clogged Filter alarm pressure switch	
	Door intrusion alarm	
	(2) 1000W AC powered heaters	A DECEMBER OF A
	LED interior cabinet light	
Rear Hatch:	Exhaust vent with (3) MERV-13 filters, (GORE	option)
5. Ordering information		
Cabinet	ESOA600-HCU01 HP-Large 3 600A Powe	
Rectifier		%, CAN communication
Controller (Spare)	TPS1020028AU17 Orion TOUCH Controlle	
Plinth, 6"	37993318818900-S Plinth for V1/V2, HPL2,	HPL3, LB2 and LB3

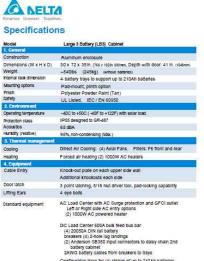
Large Battery 3 Cabinet

LB3 Site Support Enclosure

Product Feature

- Direct air cooling solution with optional Gore filter
- · Supports four strings of -48V VRLA batteries up to 210Ah
- 600A bus bar with individual 200A breakers per string
- · Bulk Input / Output with ability to daisy chain cabinets
- · Connection kit includes cables with disconnects
- Rear hatch access
- Corrosion resistant aluminum construction
- Powder coated high gloss finish
- · Designed to meet GR-487

Smarter, Greener, Together



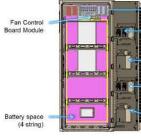
Delta Group Websi Product Website: United States of America & Canada: Delta Electronics U.S. Inc. 2925 E. Plano Parkway Plano, TX (Texas) 75074 Sales and Support Sales: DEUSTPS.Sales@del Orders: DEUSTPS.Orders@de Field Support: 1-877-DELTA-08 option 3 (877-335-8208 option 3) DELISTIPS Support Belance Installation Services: DEUSTPS.Services RMA:

DEUSTPS.RMA(go

Configurable trays for (4) strings of up to 210Ah batteries Dioor intrusion switch

LED Interior cabinet light Fan Control Board, factory wired alarms via RJ45 output (fan & Cabinet Connection kit (2) 4/0 cables with SB350 disconnects to connect to powe

ESOF015-ECV04 Large Battery 3 Cabinet 37993318816900-S Plinth for V1/V2, HPL2, LB2 cat

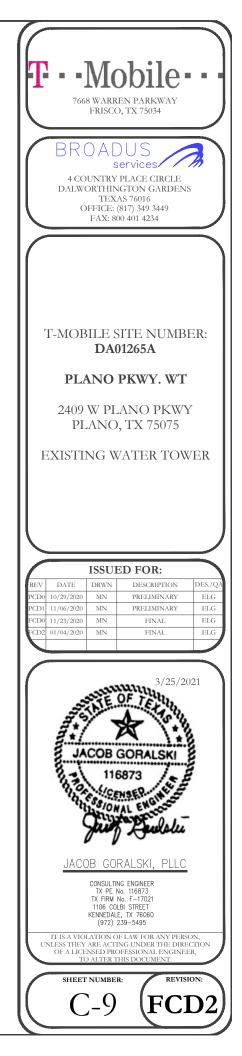


BBU SPECIFICATIONS 2 SCALE: NOT TO SCALE

SSC SPECIFICATIONS 1) SCALE: NOT TO SCALE







SITE WORK GENERAL NOTES:

SURFACE PREPARATION

ALL EXTERIOR SURFACES ON THE TANK SHALL BE POWER TOOLED CLEANED WITH VACUUMS OR BE ABRASIVE BLASTED TO A COMMERCIAL FINISH IN ACCORDANCE WITH SSPC-SP03. SURFACE PREPARATION SHALL REMOVE ALL PAINT AND MILL SCALE. BLASTING OF ANY PREVIOUSLY PAINTED SURFACES REQUIRES THE BLAST FINISH TO BE FEATHERED TO PROVIDE A SMOOTH UNIFORM PAINT FINISH.

FINAL DETERMINATION OF SURFACE PREPARATION QUALITY PRIOR TO COATING SHALL BE DETERMINED BY THE CITY. ALL POWER TOOL CLEANING AND ABRASIVE BLASTING SHALL BE PERFORMED IN FULL ACCORDANCE WITH THE LATEST REGULATIONS ISSUED BY THE TEXAS AIR CONTROL BOARD.

ALL BLASTING OR THE POWER TOOL CLEANING ON THE EXTERIOR SHALL ACHIEVE AN ANCHOR PATTERN AS REQUIRED BY THE PAINT MANUFACTURER. ALL WELD FLUX AND SPLATTER SHALL BE REMOVED BY GRINDING. CONTRACTOR SHALL WORK WITH CITY INSPECTORS TO ACCOMPLISH COMPLIANCE ON REMOVAL OF FLUX AND SPLATTER. SHARP EDGES AND PROJECTIONS SHALL BE GROUND SMOOTH.

ALL PREPARATION AND PAINTING SHALL BE COMPLETED BY AN INDUSTRIAL PAINTER APPROVED BY THE CITY.

EXTERIOR STEEL PAINTING

AFTER EXTERIOR SURFACES HAVE BEEN PROPERLY PREPARED AND SURFACE PROFILE ACHIEVED, THEY SHALL BE PAINTED BY SPRAYING, ROLLING OR BRUSHING ONE COAT OF THEMEC SERIES 90-97 OR 91-H20 ZINC. MINIMUM DRY FILM THICKNESS SHALL BE 2.5 MILS THROUGHOUT.

THE SECOND EXTERIOR COAT SHALL BE APPLIED BY SPRAYING, ROLLING OR BRUSHING ONE OR MORE COATS OF TNEMEC SERIES 1075 OR SERIES 73 ENDURA SHIELD IL THE MINIMUM DRY FILM THICKNESS SHALL BE 3.0 MILS THROUGHOUT.

THE THIRD EXTERIOR COAT SHALL BE APPLIED BY SPRAYING OR ROLLING ONE OR MORE COATS OF TNEMEC SERIES 700 COLOR HYDRO FLON. THE MINIMUM DRY FILM THICKNESS SHALL BE 2.5 MILS THROUGHOUT. SMALL AREAS OF SERIES 700 CAN BE BRUSHED AS DIRECTED BY TNEMEC.

THE MINIMUM TOTAL DRY FILM THICKNESS OF THE EXTERIOR PAINT SYSTEM SHALL BE NO LESS THAN 8.5 MILS. EACH COAT OF PAINT SHALL BE APPLIED IN A UNIFORM THICKNESS AND SHALL BE FEATHERED AS NECESSARY AT ITS EDGES TO PREVENT LAP MARKS AND PROVIDE A SMOOTH PAINT FINISH. THE THIRD COAT MAY REQUIRE PLACING THIS COATING IN MORE THAN ONE (1) COAT TO INSURE A UNIFORM COLOR. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRODUCE THE UNIFORM COVER ON THE EXTERIOR OF THIS TANK. IF ADDITIONAL COATS ARE USED THEY SHALL BE PLACED IN THICKNESS OF 1.5 MILS MINIMUM.

COLOR OF THE EXTERIOR OF STEEL SHALL BE:

EXTERIOR: TNEMEC TANK WHITE 15BL

APPLICATION

COATINGS SHALL BE APPLIED IN ACCORDANCE WITH PAINT MANUFACTURER'S RECOMMENDATIONS FOUND ON THE PAINT DATA SHEETS AND ARE SUBJECT TO INSPECTION AT ALL TIMES BY THE CITY'S REPRESENTATIVES, CONTRACTOR SHALL FOLLOW THE STELL STRUCTURES PAINTING COUNCIL GOOD PAINTING PRACTICE EXCEPT WHERE EXCEEDED IN THESE SPECIFICATIONS

NO PAINTING SHALL TAKE PLACE UTILIZING THE FIRST COAT OF EXTERIOR PAINT SYSTEM UNLESS THE ATMOSPHERIC TEMPERATURE IS 40'F AND RISING AND METAL SURFACE TEMPERATURES ARE ABOVE 40'F AND A MINIMUM OF 5'F ABOVE THE DEW POINT. THE RELATIVE HUMIDITY SHALL NOT BE GREATER THAN 85%. NO PAINTING SHALL TAKE PLACE UTILIZING THE SECOND AND FINAL COAT OF THE EXTERIOR PAINT SYSTEM UNLESS THE ATMOSPHERIC TEMPERATURE IS ABOVE 40'F AND METAL SUFFACE TEMPERATURE IS ABOVE 40'F AND A MINIMUM OF 5'F ABOVE THE DEW POINT. THE RELATIVE HUMIDITY SHALL NOT BE GREATER THAN 80%, PAINTING UTILIZING THE EXTERIOR SYSTEM SHALL NOT PROCEED IF THE TEMPERATURE IS EXPECTED TO FALL BELOW 40'F BEFORE THE PAINT HAS DRIED TO THE RECOAT WINDOW (24 HOURS) OR IF THE SURFACE TEMPERATURE IS AT OR ABOVE 110'F.

ALL SPRAY EQUIPMENT SHALL BE INSPECTED AND APPROVED BY OWNER'S REPRESENTATIVE BEFORE ANY APPLICATION IS BEGUN. A MOISTURE TRAP SHALL BE PLACED IN LINE FROM AIR SUPPLY TO PRESSURE POT AND SPRAY GUN. THIS TRAP SHALL BE OPENED SLIGHTLY TO PROVIDE A CONTINUOUS BLEED. REGULATORS AND GAUGES SHALL BE PROVIDED FOR AIR TO BOTH PRESSURE POT AND SPRAY GUN.

PRIOR TO COMMENCING THE COATING, ALL ABRASIVE AND DUST FROM STEEL PREPARATION OPERATION SHALL BE REMOVED FROM SURFACES BEFORE PAINT APPLICATION IS BEGUN. SURFACES SHALL BE COATED THE SAME DAY THAT SURFACE PREPARATION IS COMPLETED.

SPRAY GUNS MUST BE HELD PERPENDICULAR TO THE SURFACE BEING PAINTED, HANDLED AND ADJUSTED IN SUCH A MANNER SO DRY OVERSPRAY IS KEPT AT A MINIMUM. RIGGING SHALL BE ADJUSTED AS REQUIRED TO MAINTAIN A MAXIMUM DISTANCE FROM THE STEEL SURFACE OF TWO-FEET.

THE CONTRACTOR SHALL AT ALL TIMES PROTECT AREA BUILDINGS, BUSINESSES, AUTOMOBILES AND OTHER ITEMS FROM SURFACE PREPARATION AND PAINT THAT IS BEING APPLIED TO THE TANK. CONTRACTOR SHALL BE SOLELY LIABLE FOR ALL CLAIMS OF DAMAGE OF WHATEVER NATURE WHICH RESULTS FROM THE SURFACE PREPARATION AND/OR PAINTING OPERATIONS ON THIS PROJECT.

SITE WORK GENERAL NOTES:

INSPECTION

ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER, SO THAT THE FINISHED COATING ON THE EXTERIOR AND ALL PAINTED SURFACES OF THE TANK AND STRUCTURES SHALL BE FREE FROM BUBBLES, RUNS, DRIPS, RIDGES, OVER-SPRAY, WAVES AND UNRICESSARY BRUSH MARKS AND VARIATIONS IN COLOR. THE CITY SHALL MAKE FINAL DETERMINATION OF FINISHED WORK.

INSPECTION AND ACCEPTANCE OF THE SURFACE PREPARATION SHALL BE ACHIEVED PRIOR TO APPLICATION OF THE PRIME COAT OF PAINT ON THE TANK. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS WORK WITH THE CITY TO ALLOW FOR EXPEDITIOUS PROSECUTION OF THE INSPECTION. ALL RIGGING, LIFTS, STAGING AND THE ALIKE SHALL REMAIN IN PLACE UNTIL ALL INSPECTIONS BY THE CITY ARE COMPLETE. ALL RIGGING, LIFTS AND STAGING SHALL CONFORM TO APPLICABLE SAFETY REQUIREMENTS. CONTRACTOR SHALL PROVIDE RIGGING, LIFTS AND STAGING AS REQUIRED BY THE CITY TO FACILITATE INSPECTION AND TESTING.

ALL PAINT WILL BE INSPECTED BY THE CITY FOR APPLIED DRY FILM THICKNESS USING A NON-DESTRUCTIVE MAGNETIC GAUGE SUCH AS A MIKROTEST GAUGE OR AN ELKOMETER. GENERAL PAINT INSPECTION WILL BE DONE BY AN INDEPENDENT LABORATORY EMPLOYED BY THE CITY OR BY THE CITY. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER, SO THAT THE FINISHED COATING ON THE STERIOR OF THE TANK SHALL BE FREE FROM BUBBLES, RUNS, DRIPS, RIDGES, OVER-SPRAY, WAVES, BRUSH MARKS AND VARIATIONS IN COLOR.

SAFETY PRECAUTIONS

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SAFETY OF THE WORKMEN ON THIS PROJECT AND PUBLIC IN THE VICINITY OF THIS TANK AT ALL TIMES DURING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL OSHA SAFETY STANDARDS AND REGULATIONS. PROTECTIVE EQUIPMENT, ABRASIVE RESISTANT CLOTHING, SAFETY SHOES, LEATHER GLOVES, EAR PROTECTION AND OSHA APPROVED RESPIRATORS SHALL BE UTILIZED AS A MINIMUM DURING SURFACE PREPARATION AND PAINTING ON THIS TANK.

CONTRACTOR LIABILITY

CONTRACTOR SHALL BE SOLELY LIABLE FOR ALL CLAIMS FOR PERSONAL AND PROPERTY DAMAGE, INCLUDING DEATH, WHICH RESULT FROM THE SURFACE PREPARATION AND PAINTING ON THIS PROJECT. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO CONTROL PAINT FROM DAMAGING AUTOMOBILES, HOMES AND OTHER FACILITIES IN THE AREA AROUND THE TANK. IF COMPLAINTS ARE RECEIVED BY THE CONTRACTOR OR THE CITY, THE CONTRACTOR SHALL INVESTIGATE THE COMPLAINT IMMEDIATELY AND REPORT IN WRITING TO THE CITY CORRECTIVE ACTION HE IS TAKING. IT SHALL BE THE CONTRACTOR'S COMPLETE RESPONSIBILITY TO CORRECT OR MAKE WHOLE ANY DAMAGE OR INJURIES CAUSED BY HIS SURFACE PREPARATION AND PAINTING OPERATIONS.

ANNUAL INSPECTION

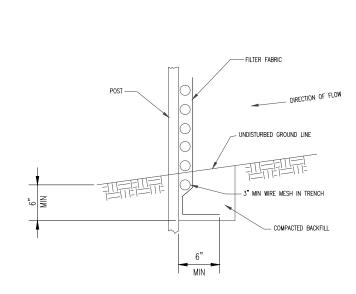
AN ANNUAL INSPECTION SHALL BE PERFORMED AT THE 12TH MONTH AFTER PROJECT COMPLETION PRIOR TO THE EXPIRATION OF THE GUARANTEE. THE CONTRACTOR SHALL FURNISH SUCH PERSONNEL LIFTS, RIGGING, POWER TOOLS, SPOT CLEANING EQUIPMENT AND TOUCH-UP PAINT AS MAY BE NECESSARY FOR INSPECTION AND TOUCH-UP. THE INSPECTION SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER AND THEIR DESIGNATED REPRESENTATIVE.



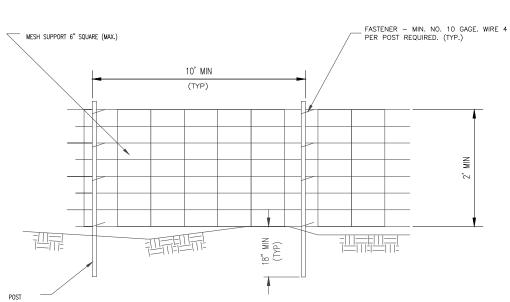




FABRIC ANCHOR DETAIL



ELEVATION



NOTES: 1. WIRES OF MESH SUPPORT SHALL BE MIN. GAGE NO. 12.

2. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

3. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.

4. FENCE POSTS SHALL BE EITHER WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN. OR A STANDARD STEEL POST.

