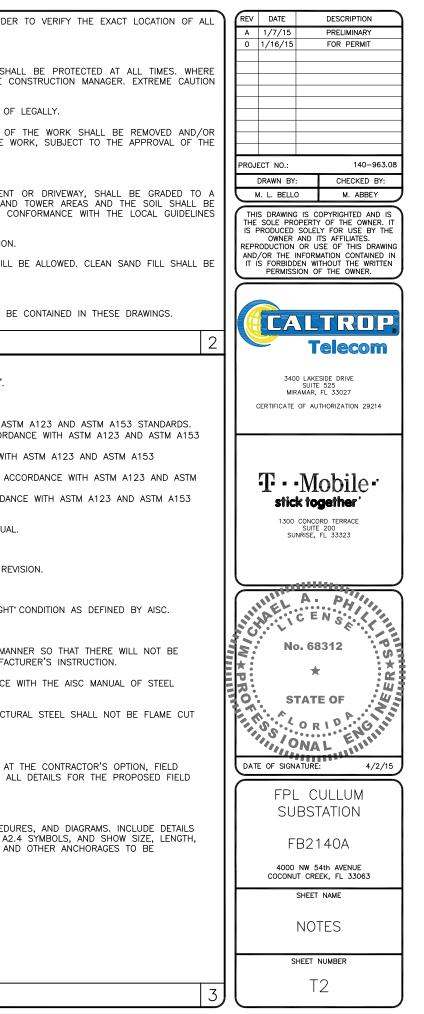
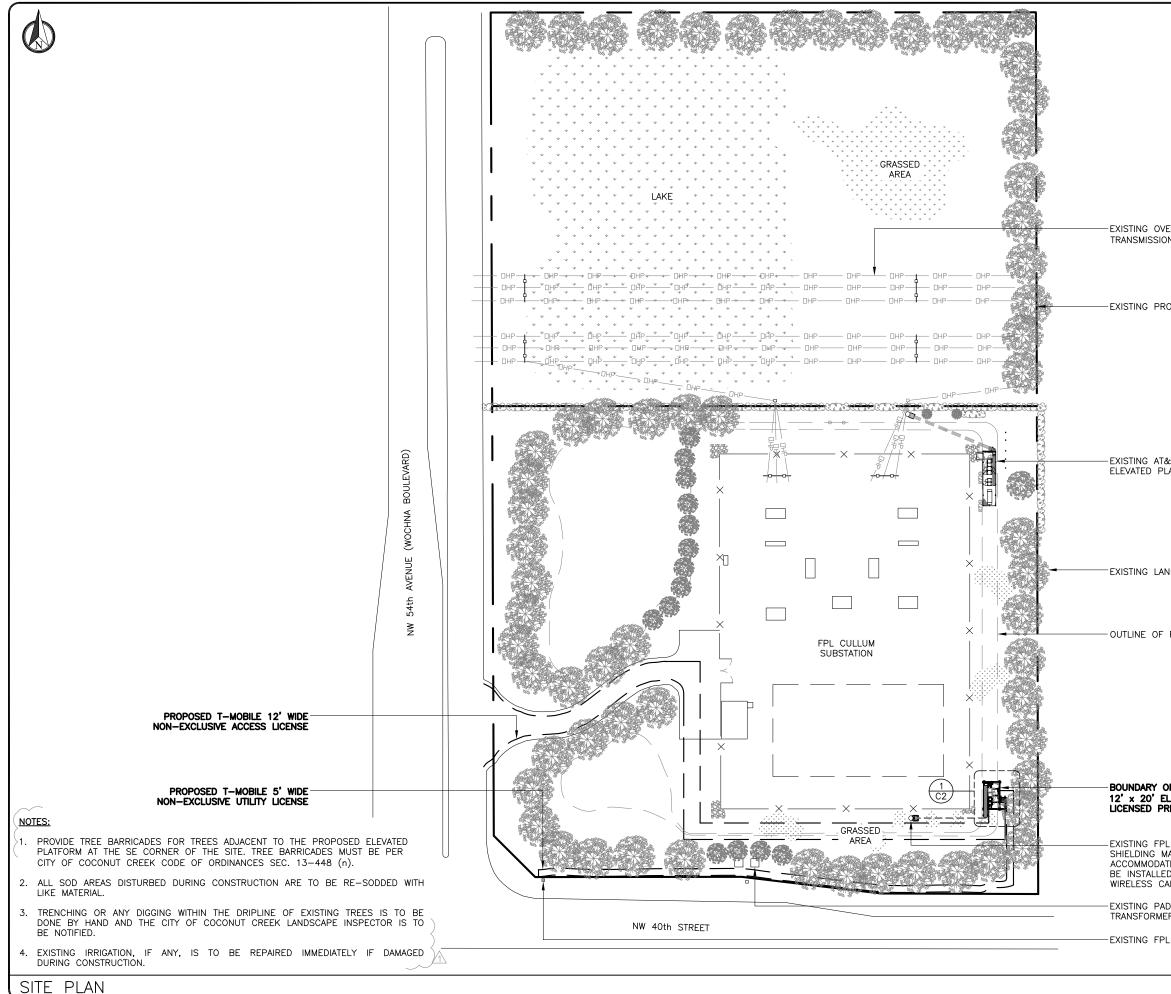
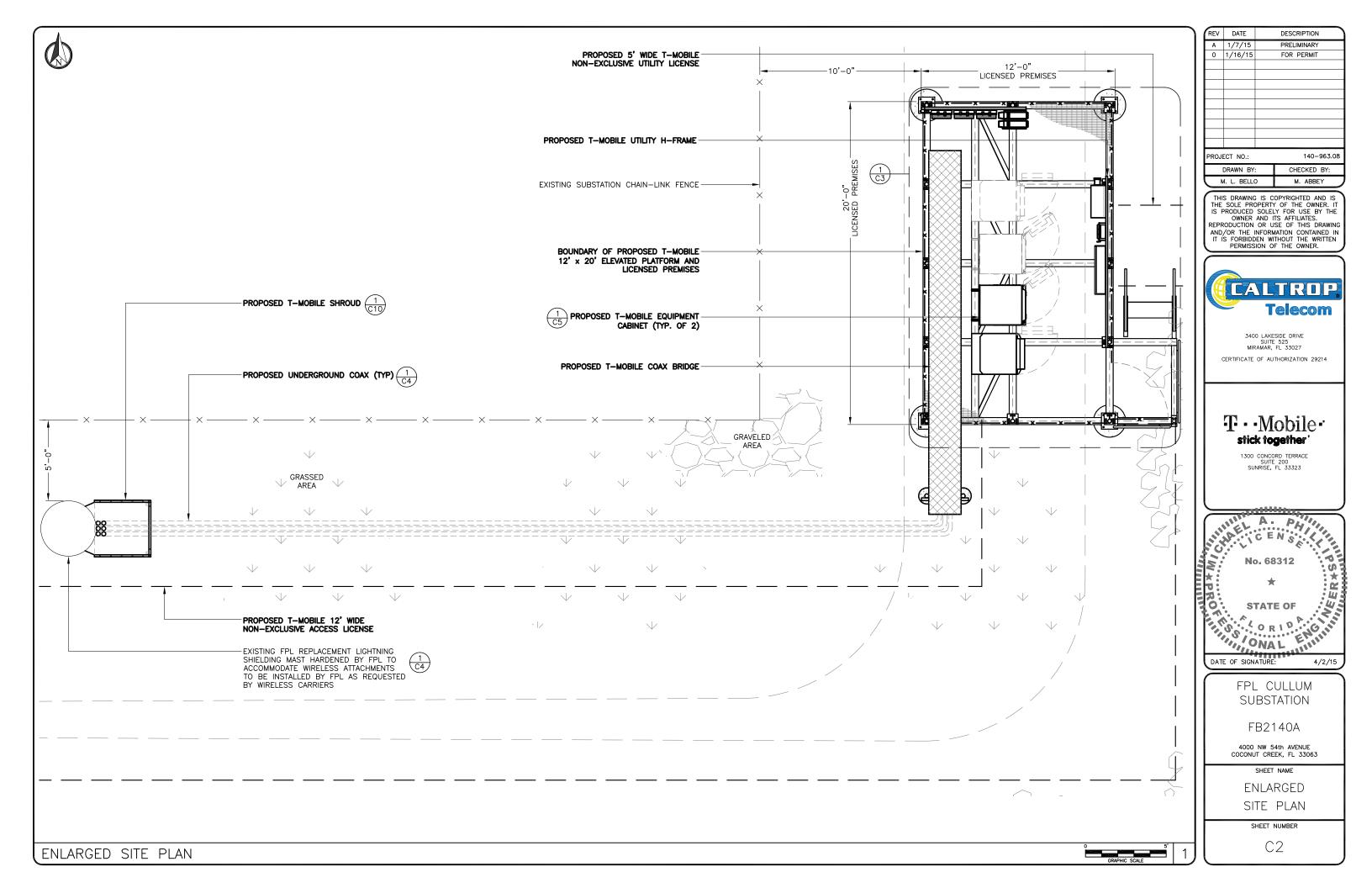
T - Mc stick tog		FB21 FPL C SUBST 4000 NW 54 COCONUT CRE	ULLUM ATION 4th AVENUE EK, FL 33063	REV DATE DESCRIPTION A 1/7/15 PRELIMINARY 0 1/16/15 FOR PERMIT 1 4/2/15 REVISED
LOCAL MAP	PROPERTY SUMMARY FOLIO 4842 18 03 0061 PROPERTY OWNER FLORIDA POWER & LIGHT CO 700 UNIVERSE BLVD JUNO BEACH FL 33408 LATITUDE 26.278711" N LONGITUDE 80.195967" W ZONING JURISDICTION CITY OF COCONUT CREEK	 PROJECT DESCRIPTION 1. THE WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY. 2. THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE. 3. CONTRACTOR SHALL VERIFY 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. 4. THE SCOPE OF WORK CONSISTS OF: INSTALLATION OF NEW ANTENNAS ON FPL REPLACEMENT POLE. INSTALLATION OF NEW TELECOMMUNICATIONS EQUIPMENT 	INDEX OF DRAWINGS SHT. DESCRIPTION REV. T1 TITLE SHEET 1 T2 NOTES 0 C1 SITE PLAN 1 C2 ENLARGED SITE PLAN 0 C3 COMPOUND PLAN 1 C4 ELEVATION 1 C5 EQUIPMENT PAD DETAILS 0 C6 EQUIPMENT MOUNTING DETAILS 0 C7 FENCE DETAILS 1 C8 GATE DETAILS 0 C9 COAX MOUNTING DETAILS 0 C10 UNDERGROUND ROUTING DETAILS 0 S1 STRUCTURAL DETAILS AND NOTES 0 S2 STRUCTURAL DETAILS 0 S3 STRUCTURAL DETAILS 0	Telecom Suite 525 MIRAMAR, FL 33027 CERTIFICATE OF AUTHORIZATION 29214 TrMobile- stick together' 1300 CONCORD TERRACE SUITE 200 SUNRISE, FL 33323
	DESIGN CRITERIA DESIGN WIND SPEED: 170 MPH (ULTIMATE, 3-SECOND GUST) 132 MPH (NOMINAL, 3-SECOND GUST) EXPOSURE: C RISK CATEGORY: II OPEN STRUCTURE	CODE COMPLIANCE ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2010 FLORIDA BUILDING CODE WITH 2012 SUPPLEMENT. 2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, NATIONAL ELECTRICAL CODE, 2008 EDITION. 3. TIA-222-G WITH ADDENDUM 1 APPLICABLE STANDARDS. 4. LIFE SAFETY CODE NFPA-101-2009. 5. 2010 FLORIDA FIRE PREVENTION CODE. 6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360-05 AND 341-05. 7. UNDERWRITERS LABORATORIES (U.L.) APPROVED ELECTRICAL PRODUCTS. 8. LOCAL JURISDICTIONAL REQUIREMENTS. 9. CITY/COUNTY ORDINANCES.	S4 STRUCTURAL DETAILS 0 S5 STRUCTURAL DETAILS 0 E1 ELECTRICAL NOTES 0 E2 GROUNDING NOTES 0 E3 UTILITY ROUTING SITE PLAN 0 E4 UTILITY ROUTING EQUIPMENT PLAN 0 E5 ELECTRICAL DETAILS 0 E6 GROUNDING PLAN AND NOTES 0 E7 ELECTRICAL DETAILS 0 E8 GROUNDING DETAILS 0 NOTA NOTA	No. 68312 * STATE OF O R 1 P. HIGHIN ONA L DATE OF SIGNATURE: 4/2/15 FPL CULLUM SUBSTATION FB2140A 4000 NW 54th AVENUE COCONUT CREEK, FL 33063 SHEET NAME TITLE SHEET SHEET NUMBER T1

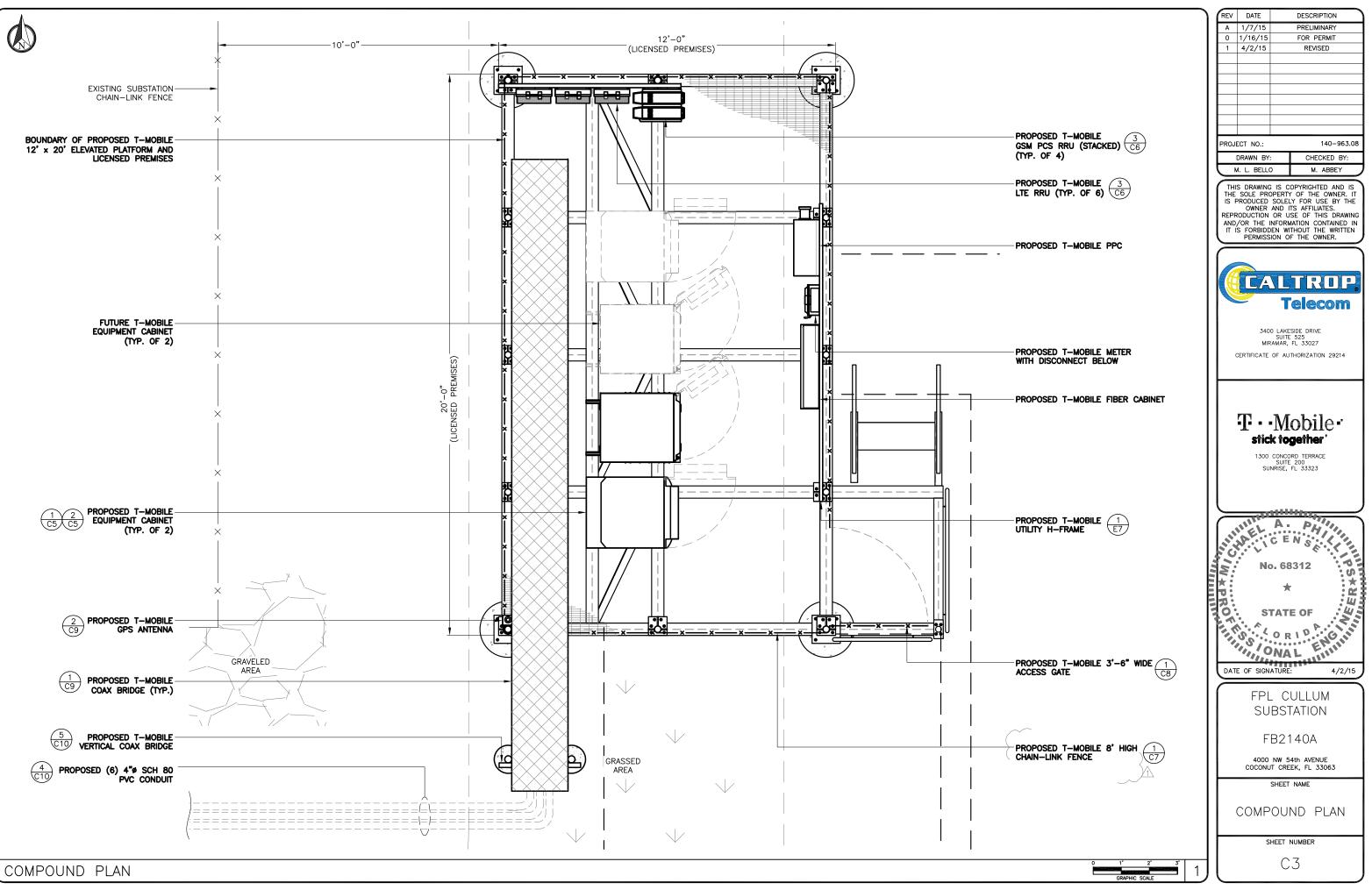
1.	FOR THE PURPOSES OF THESE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:	1. 2.	
	ENGINEER - CALTROP CORPORATION	3.	. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHERE ENCOUNTERED IN THE WORK, S REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SUCH UTILITIES SHALL BE RELOCATED AS DIRECTED BY THE
	CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)		SHALL BE USED WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.
		4.	. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED (
2.	PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE JOB SITE IN ORDER TO (1) VERIFY ALL EXISTING CONDITIONS, (2) CONFIRM WHETHER ALL DIMENSIONS ARE AS SHOWN ON THE PLANS AND (3) CONFIRM WHETHER THE WORK MAY BE ACCOMPLISHED AS SHOWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER.)	ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES THAT INTERFERE WITH THE EXECUTION CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS THAT WILL NOT INTERFERE WITH THE EXECUTION OF THE LANDLORD AND/OR LOCAL UTILITIES.
3.	A 20-FOOT HORIZONTAL CLEARANCE DISTANCE SHALL BE MAINTAINED FROM ALL EXISTING POWER LINES.	6.	. DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION SHALL BE MINIMIZED.
	THE CONTRACTOR'S USE OF A CONSTRUCTION STAGING AREA SHALL BE COORDINATED WITH THE OWNER WELL IN ADVANCE OF THE CONSTRUCTION START DATE.		. ANY AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMEN UNIFORM SLOPE. SUCH GRADING SHALL CAUSE SURFACE WATER TO FLOW AWAY FROM ANY EQUIPMENT SHELTER A STABILIZED TO PREVENT EROSION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN FOR EROSION AND SEDIMENT CONTROL.
5.	LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION AND TEMPORARY POWER SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL WORK SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS		. THE SUB-GRADE SHALL BE COMPACTED AND BROUGHT TO A UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATIO
	AND/OR AS SPECIFIED HEREIN. LABOR AND MATERIALS SHALL BE FURNISHED AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL ELEMENTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS.		. BACKFILL SHALL CONSIST OF CLEAN SAND FILL APPROVED FOR USE BY THE ENGINEER. NO UNAPPROVED MATERIAL WIL FREE OF ALL ROOTS, BOULDERS, OR OTHER DELETERIOUS MATERIAL.
6.	FOR TASKS REQUIRED TO BE PERFORMED BUT NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT	10	0. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL TO OR BETTER CONDITION THAN ORIGINAL.
	DOCUMENTS, THE CONTRACTOR SHALL NOT START WORK ON SUCH TASKS WITHOUT HAVING RECEIVED WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER TO PROCEED.	N 1-	1. SITE SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR SUCH SIGNAGE AS MAY
7.	THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS MAY BE MODIFIED AS REQUIRED BY ACTUAL FIELD CONDITIONS. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN	S	ITE WORK NOTES
	ON THESE DRAWINGS, CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER AND THE CONSTRUCTION MANAGER.		. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST EDITION OF THE AISC "STEEL CONSTRUCTION MANUAL".
8.	THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF		
	INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL DELIVER SUCH DOCUMENTS TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE	2	A. ALL STRUCTURAL STEEL WF BEAMS SHALL BE ASTM A992 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH A
	WORK.		B. ALL STRUCTURAL PLATES, ANGLES, AND CHANNELS SHALL BE ASTM A36 AND "HOT DIPPED" GALVANIZED IN ACCOF
	THE CONTRACTOR'S OPERATIONS SHALL BE CONFINED TO AREAS OF NEW CONSTRUCTION.		STANDARDS, UNLESS NOTED OTHERWISE. C. ALL TS MEMBERS SHALL BE ASTM A500 GRADE B (Fy=46ksi), AND "HOT DIPPED" GALVANIZED IN ACCORDANCE W
10.	ALL NECESSARY PROVISIONS SHALL BE MADE TO PROTECT EXISTING IMPROVEMENTS, LANDSCAPING, PAVING CURBS, GALVANIZED SURFACES, ETC, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME RESULTING FROM THE CONSTRUCTION WORK. ALL DISTURBED AND DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UPON COMPLETION OF ALL WORK TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.		STANDARDS. D. ALL STRUCTURAL PIPE MEMBERS SHALL BE ASTM A500 GRADE B (Fy=42ksi), AND "HOT DIPPED" GALVANIZED IN A A153 STANDARDS, UNLESS NOTED OTHERWISE E. ALL NON-STRUCTURAL PIPE MEMBERS SHALL BE ASTM A53 GRADE B, AND "HOT DIPPED" GALVANIZED IN ACCORD STANDARDS.
11.	THE FOLLOWING CLEANUP TASKS SHALL BE PERFORMED AS FOLLOWS: (1) ON A DAILY BASIS, KEEP THE GENERAL AREA CLEAN AND HAZARD FREE, REMOVING ALL WASTE, DEBRIS AND TRASH FROM THE SITE AND DISPOSING OF SAME IN A LEGAL MANNER. (2) UPON COMPLETION, LEAVE THE PREMISES IN A CLEAN) _	DESIGN, FABRICATION, AND CONSTRUCTION OF ALL CONNECTIONS SHALL CONFORM TO AISC STEEL CONSTRUCTION MANU.
12.	CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S RECOMMENDATIONS EXCEPT WHERE IT IS SPECIFICALLY INDICATED OTHERWISE IN THE		A. ALL WELDS, WELDERS, AND WELD INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AWS D 1.1, LATEST F B. ALL WELDS SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. C. ALL STEEL SHALL BE SPRAY GALVANIZED AFTER WELDING.
13.	CONTRACT DOCUMENTS OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL		. ALL BOLTS SHALL BE GALVANIZED ¼" DIAMETER, A325-N, UNLESS NOTED OTHERWISE AND TIGHTENED TO A "SNUG TIGH SECURE NUT WITH LOCKING WASHER.
	LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AS WELL	5.	. THE CONTRACTOR/STEEL FABRICATOR SHALL LOCATE ANY REINFORCEMENT IN THE STRUCTURAL MEMBERS IN SUCH A M CONFLICT WITH THE REINFORCEMENT WHEN INSTALLING ANCHORS. THE ANCHORS SHALL BE INSTALLED PER THE MANUF/
14.	AS LOCAL AND STATE CODES, ORDINANCES AND APPLICABLE REGULATIONS. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AT ALL TIMES, USING THE BEST SKILLS AND		. THE CONTRACTOR/STEEL FABRICATOR SHALL CONFORM TO THE MINIMUM EDGE DISTANCE REQUIREMENTS IN ACCORDANC CONSTRUCTION.
	ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL OF THE CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE OWNER'S	, / ′.	ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/16 INCH TOLERANCE. STRUC UNDER ANY CIRCUMSTANCES WITHOUT APPROVAL OF THE ENGINEER.
15	AUTHORIZED REPRESENTATIVE. WITHIN TEN (10) WORKING DAYS AFTER PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A		THE CONTRACTOR/STEEL FABRICATOR SHALL CAP OR SEAL ALL PIPES AS REQUIRED TO PREVENT WATER INTRUSION.
	COMPLETE SET OF AS-BUILT DRAWINGS, SWEEP TEST, CYLINDER TESTS, LIEN RELEASES, AND OTHER CLOSEOUT DOCUMENTATION AS REQUIRED BY THE OWNER. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO THE OWNER'S ACCEPTANCE.	₹ 5.	. THE CONTRACTOR/STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION. A SPLICES MAY BE USED FOR ERECTION PURPOSES. IF FIELD SPLICES ARE USED, THE SHOP DRAWINGS SHALL INCLUDE SPLICES.
	LETER, ASSOLD AND DEMONSTRUED TO DE READT FOR OFERINOR FROM TO THE OWNER'S ACCEPTANCE.	10	D. AT THE CONTRACTOR'S OPTION, SHOP WELDS MAY BE USED INSTEAD OF FIELD WELDS.
		11	1. SUBMIT ORIGINAL SHOP DRAWINGS, INCLUDING COMPLETE DETAILS, SCHEDULES OF FABRICATION AND ASSEMBLY, PROCEI OF CUTS, CONNECTIONS, CAMBER, HOLE, AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS A2.1 AND A AND TYPE OF WELD. PROVIDE SETTING DRAWINGS, TEMPLATES, AND DIRECTIONS FOR INSTALLATION OF ANCHOR BOLTS A INSTALLED AS WORK OF OTHERS' SECTIONS.
		1 0	
GE	INERAL NOTES	15	TRUCTURAL STEEL NOTES

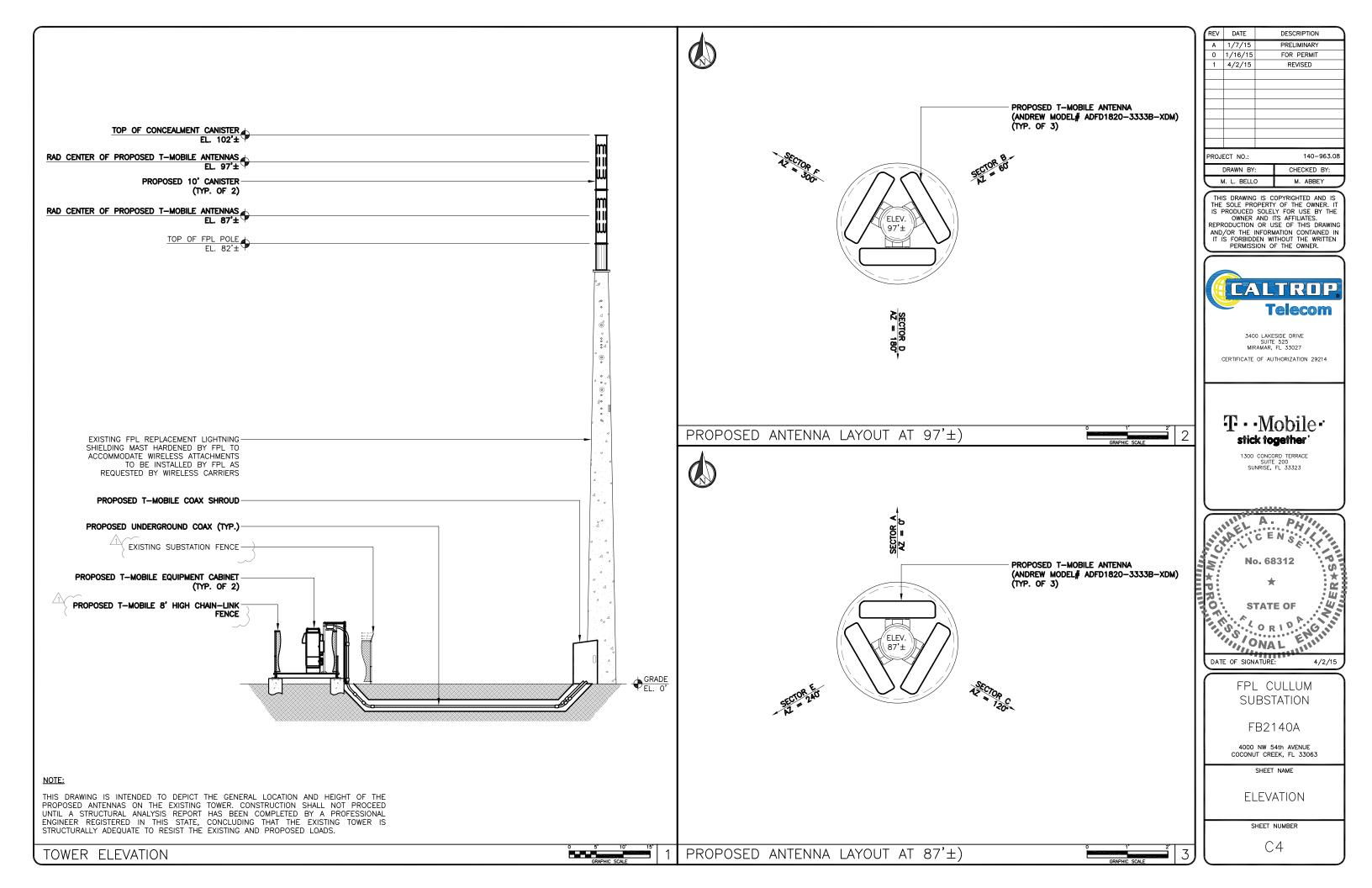




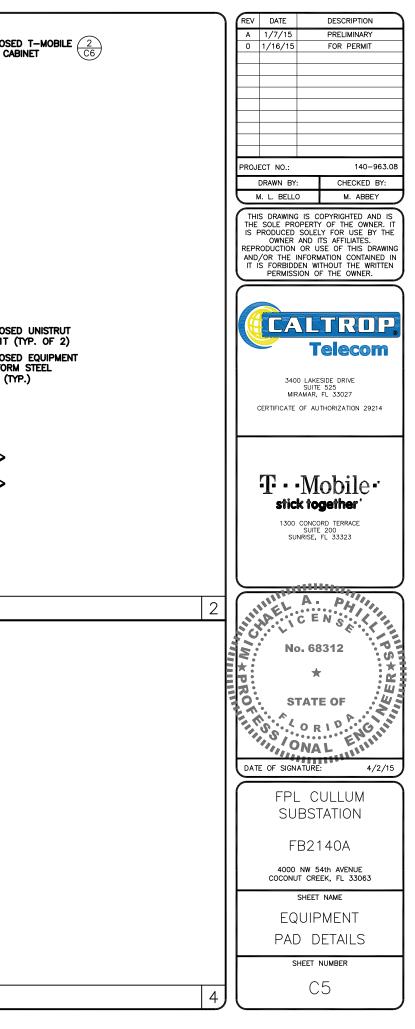
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L REPLACEMENT LIGHTNING MAST HARDENED BY FPL TO TE WIRELESS ATTACHMENTS TO		4000	NW 54th AVENUE T CREEK, FL 33063
D BY FPL AS REQUESTED BY ARRIERS			SHEET NAME
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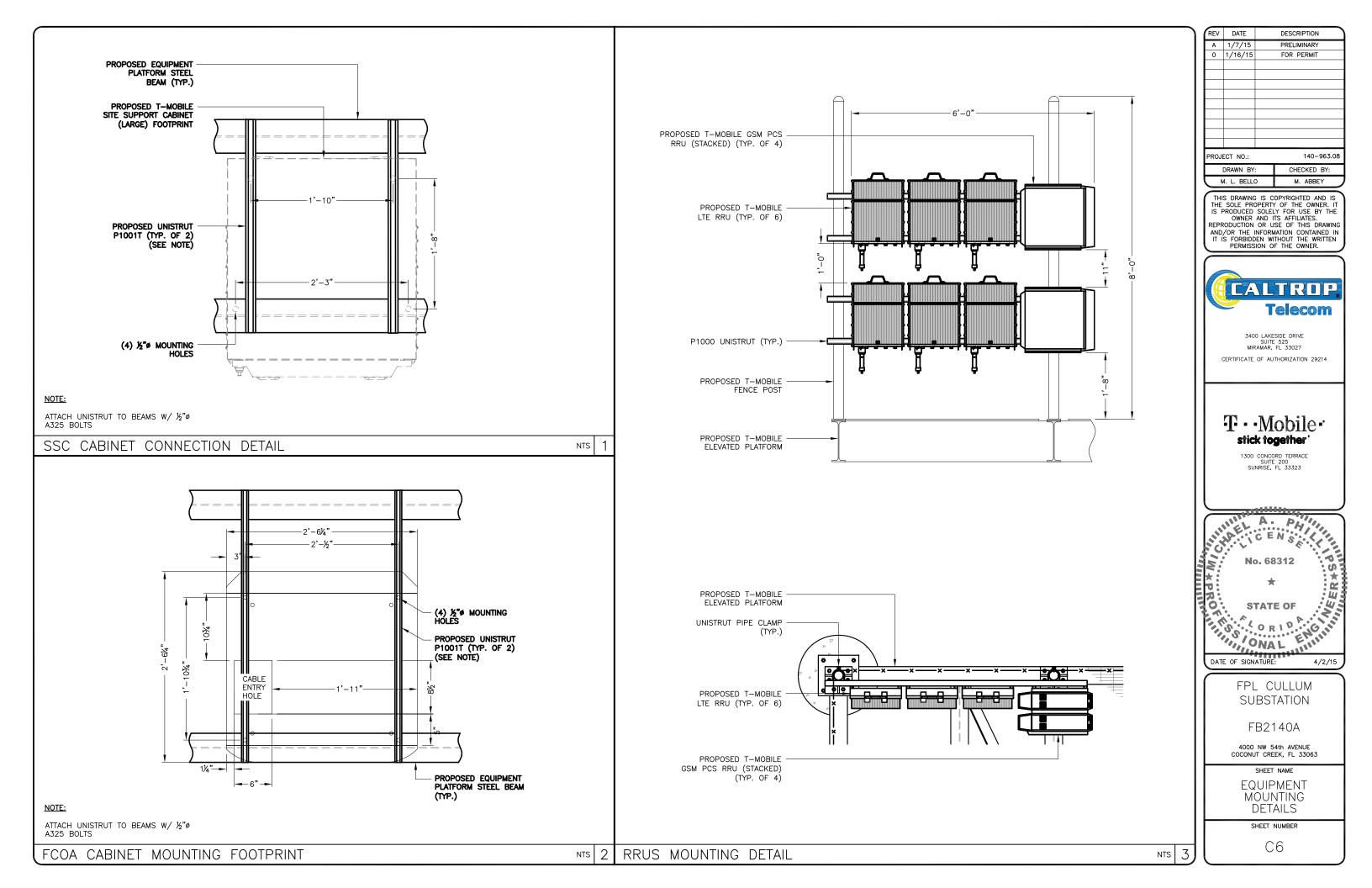


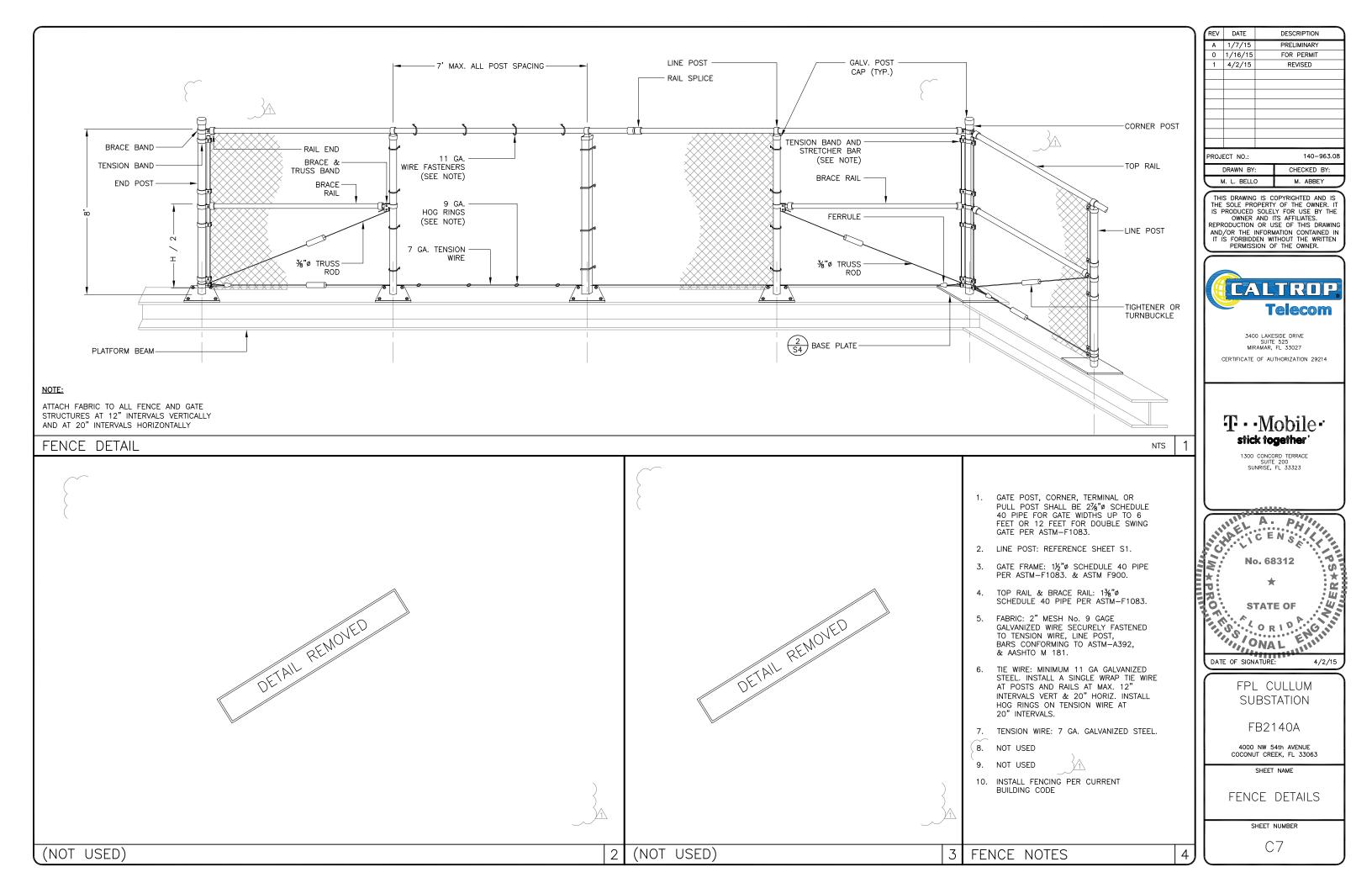


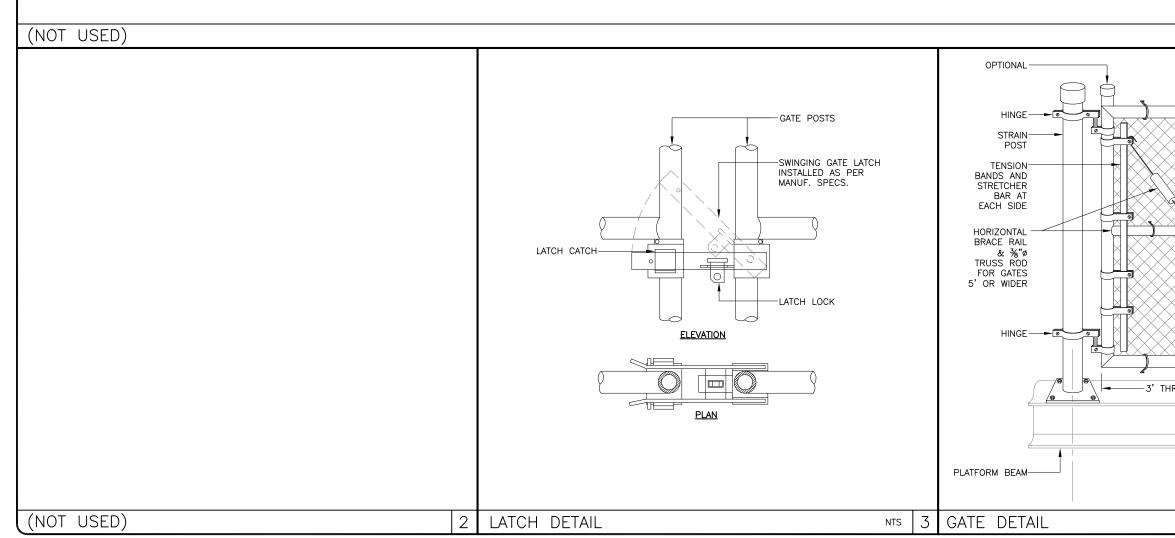


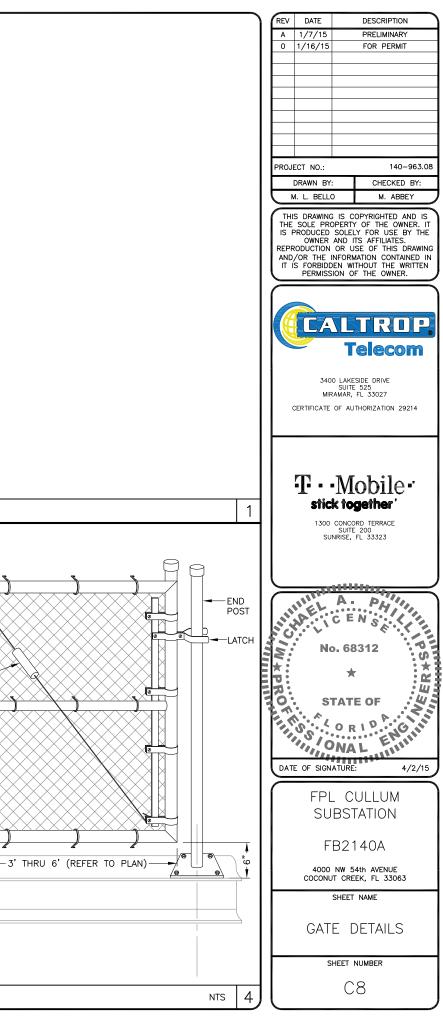
NOTE: MATCH UNISTRUT TO BEAMS W/ ½°6	X** A325 BOLT X** A325 BOLT
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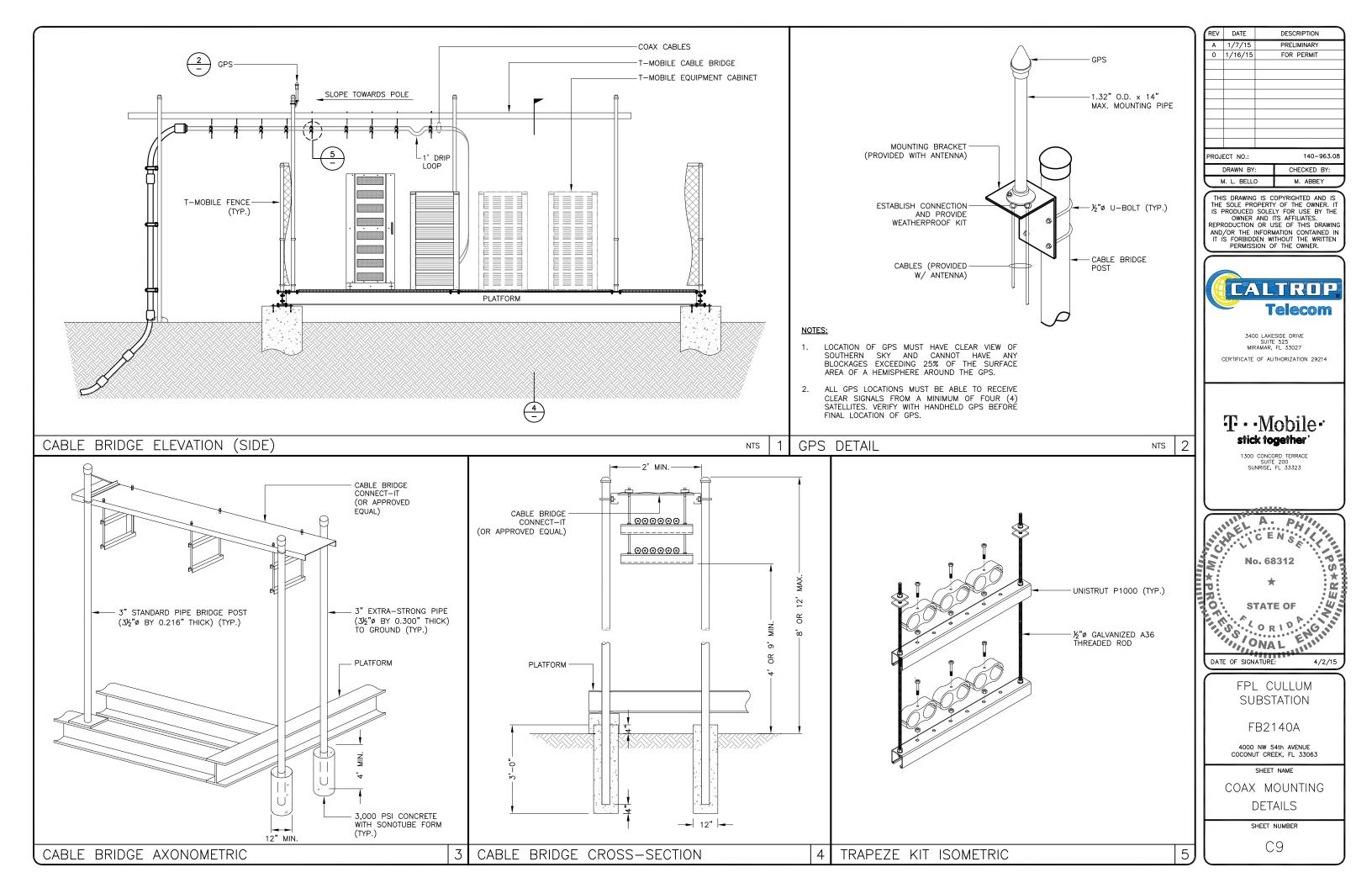


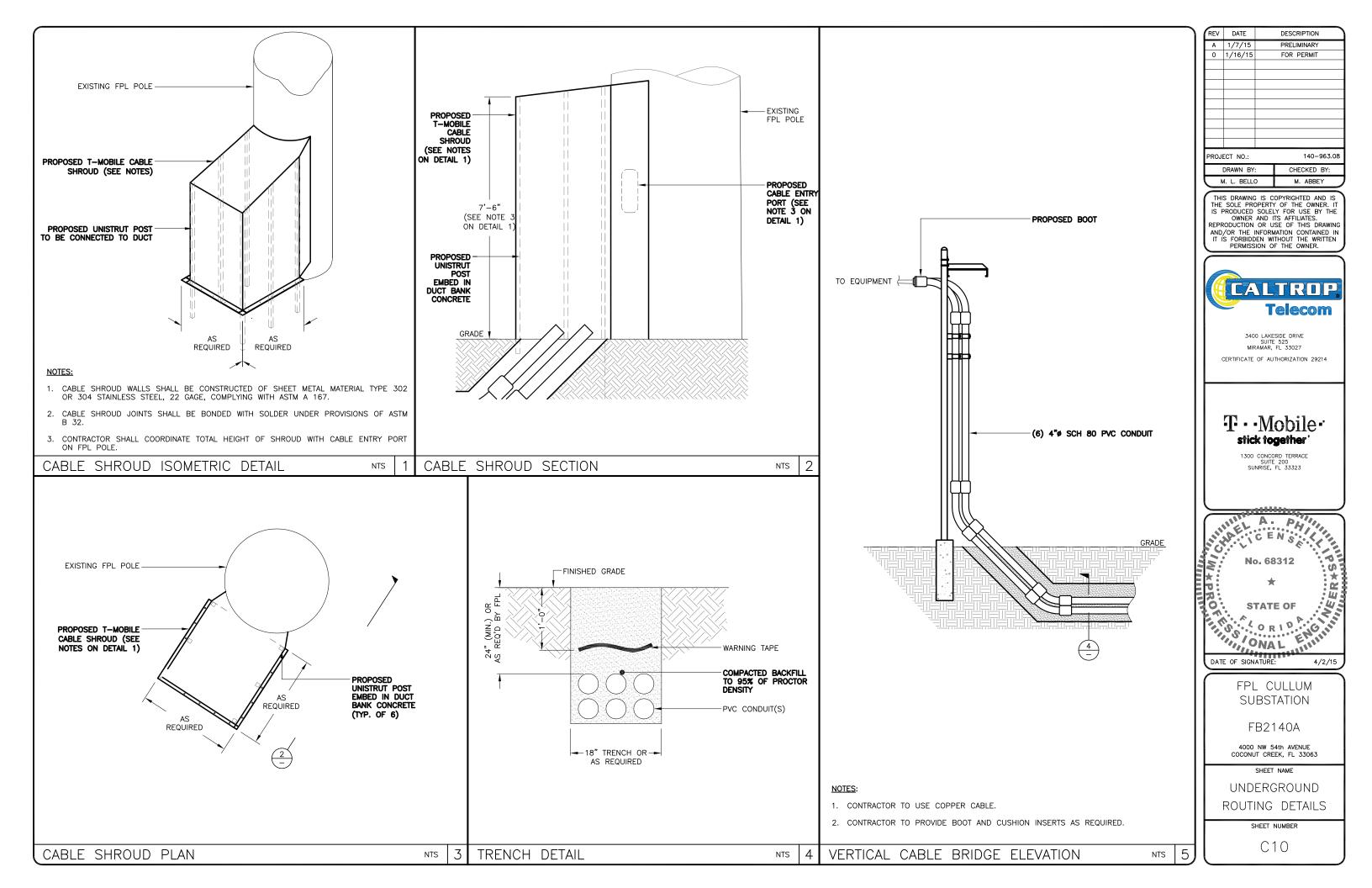


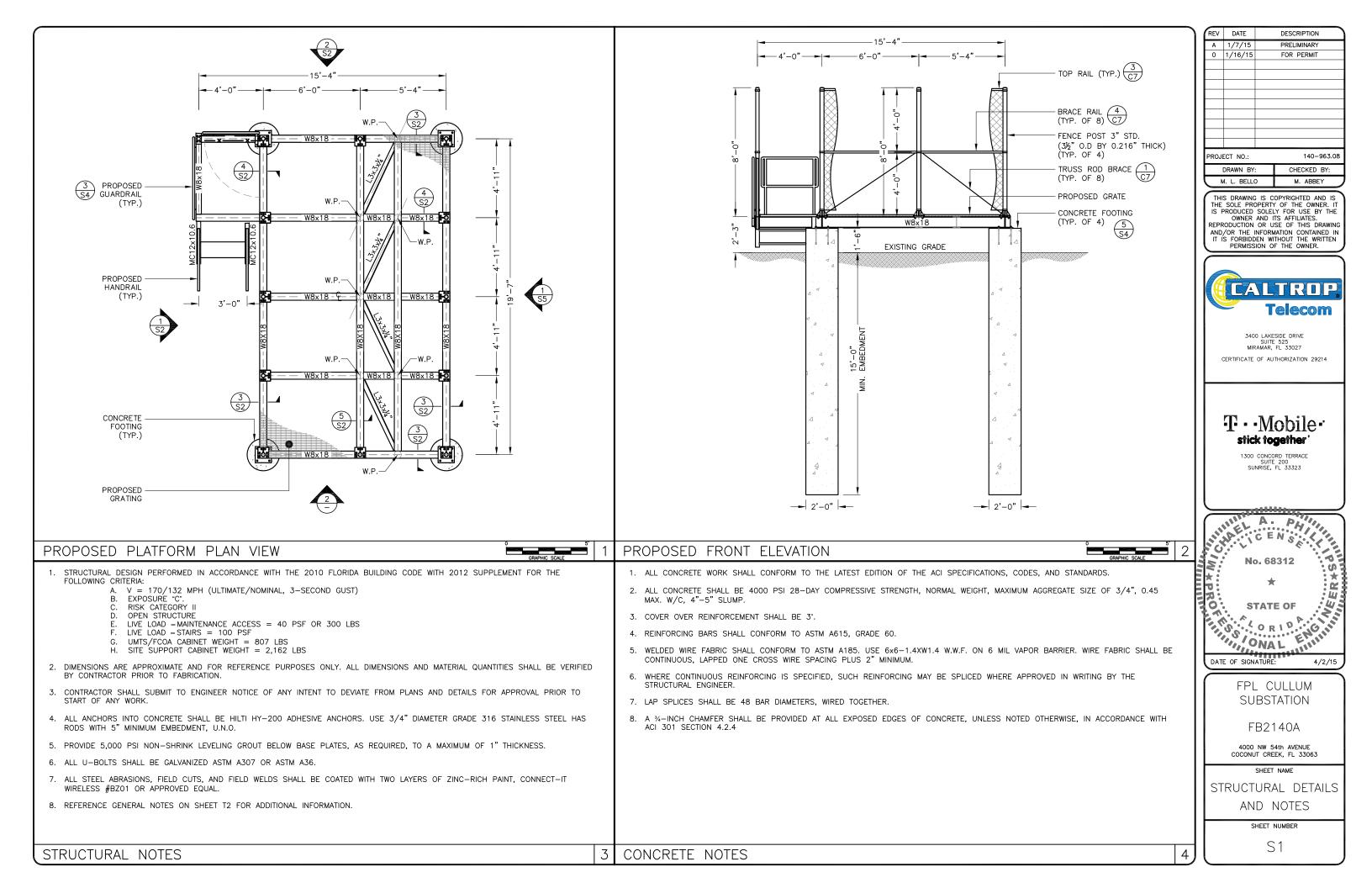


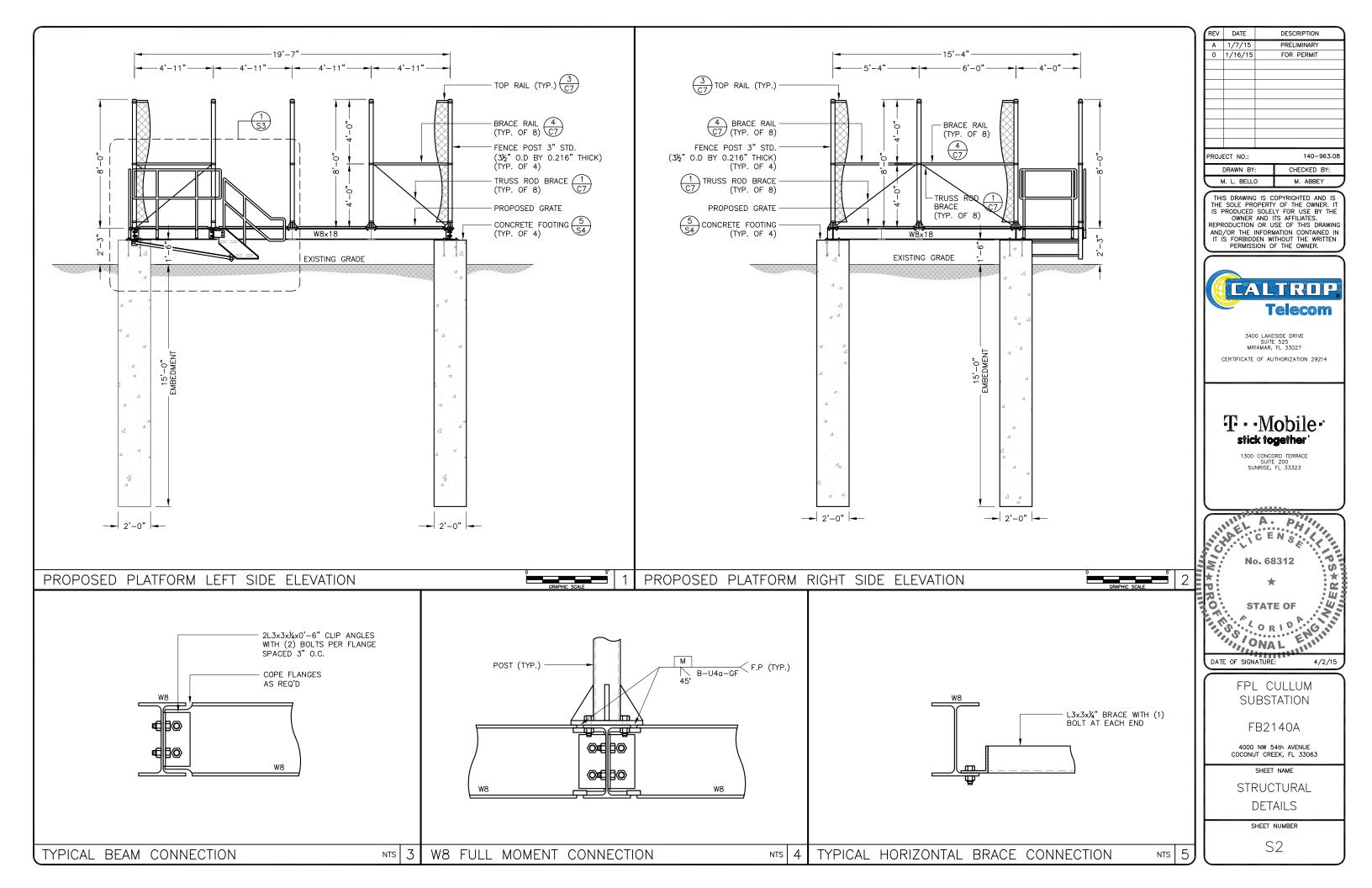


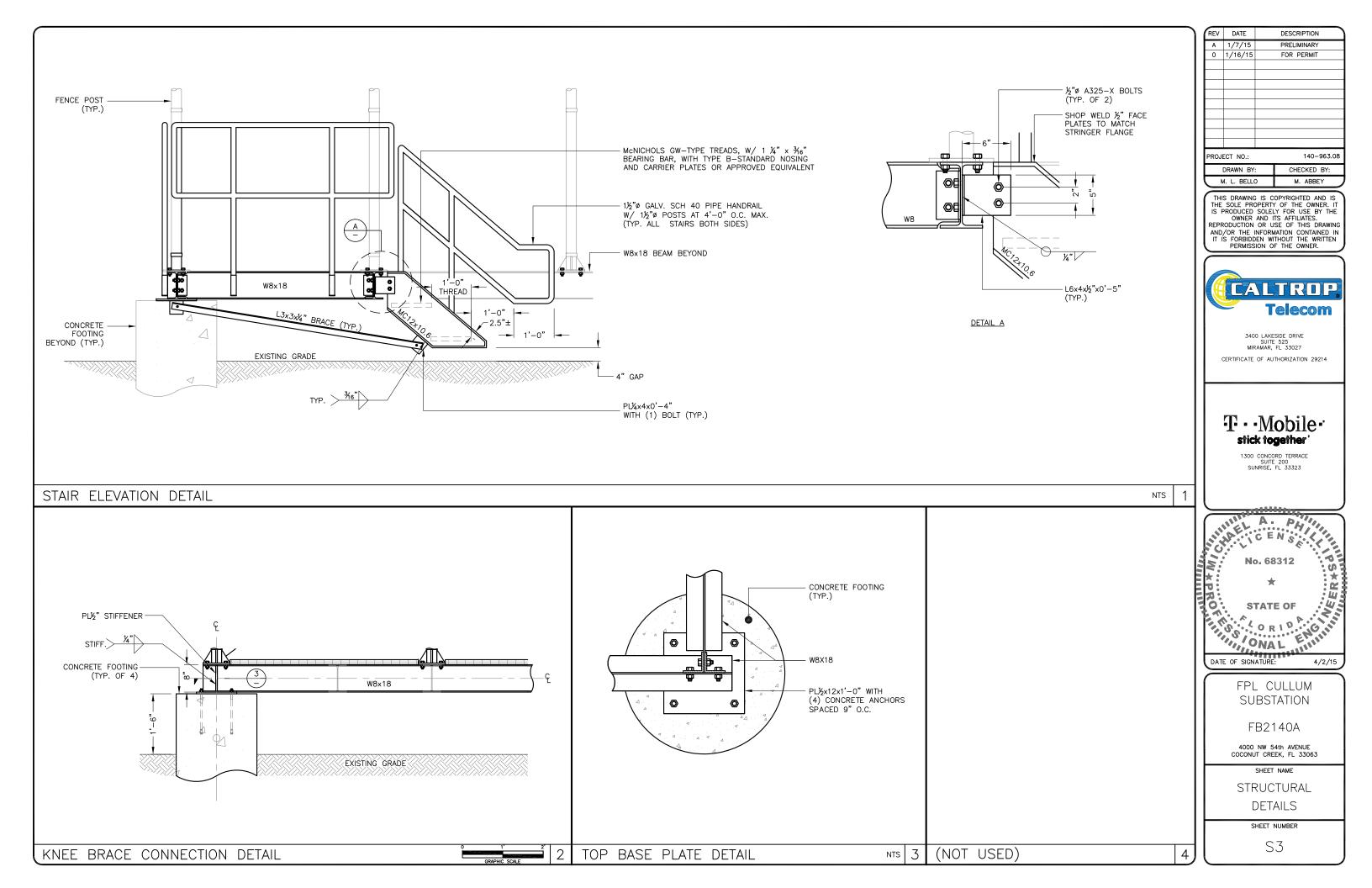


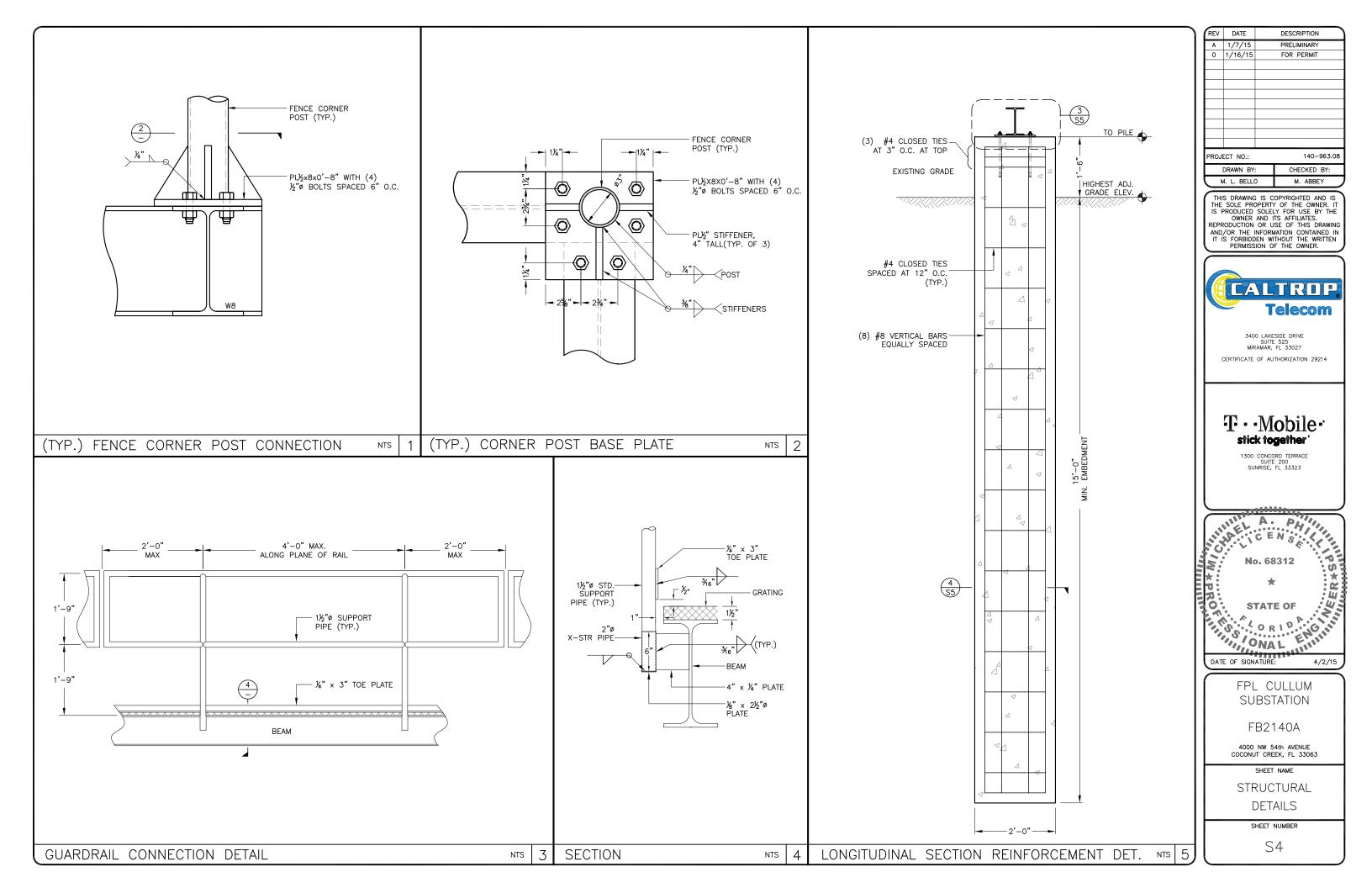


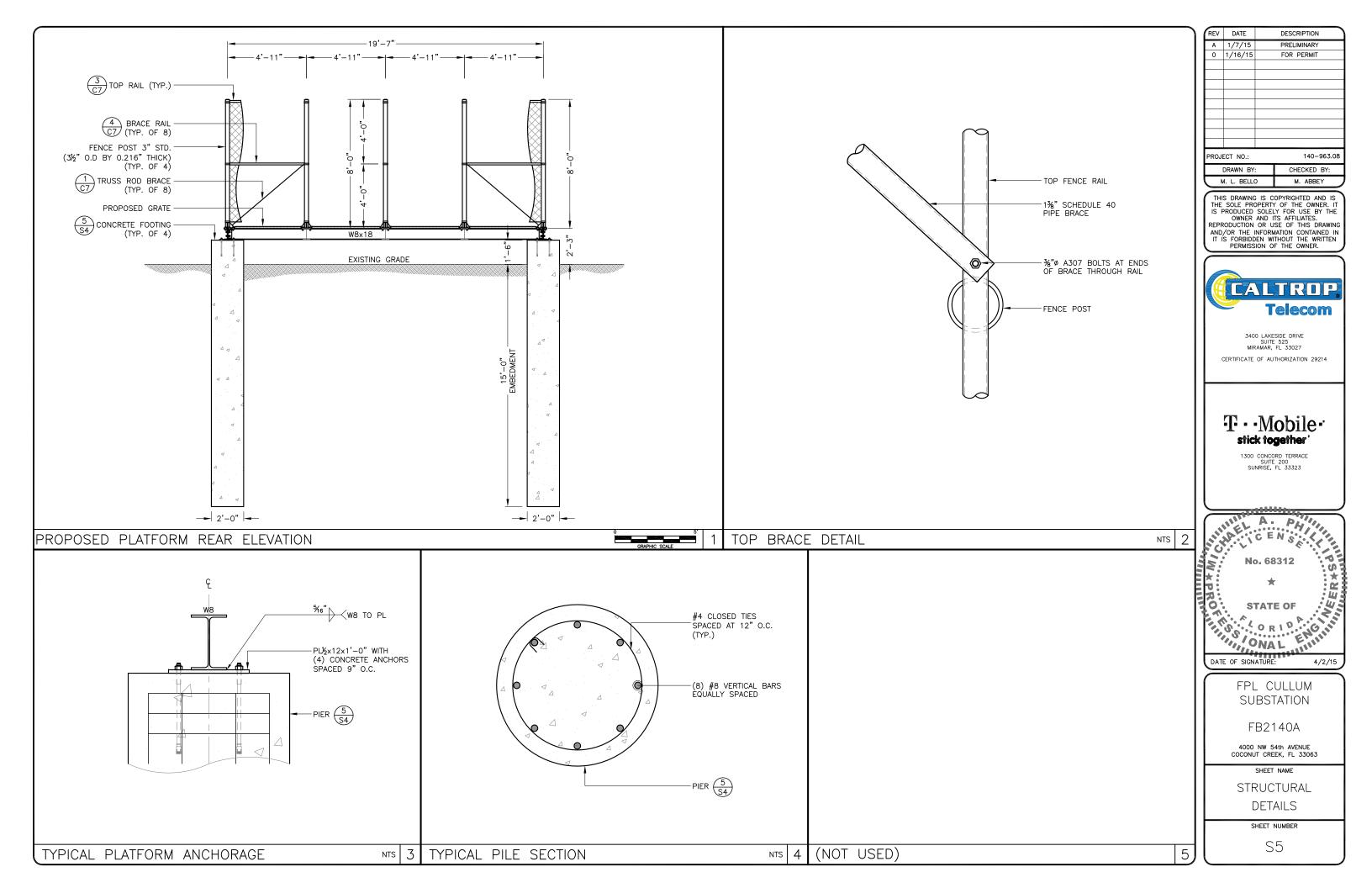












- A GENERAL
 - A8. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.
 - A9. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
 - A10. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
 - A11. WHERE LONG POWER CABLE RUNS PREVAIL, CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND SIZE WIRES AND CONDUIT ACCORDINGLY.
 - A12. WHERE TRANSFORMER IS REQUIRED FOR ELECTRICAL SERVICE, TRANSFORMER SECONDARY SHALL BE GROUNDED PER N.E.C., ARTICLE 250-26.
 - A13. REFER TO SITE SPECIFIC DWGS FOR ELEVATIONS.
 - A14. ALL ELECTRICAL DEVICES EXPOSED TO WEATHER SHALL BE OF RAINPROOF CONSTRUCTION AND SHALL REQUIRE WATER TIGHT CONDUIT HUBS
 - A15. CONTRACTOR SHALL COIL CABLES AT HANDHOLE WITH LENGTHS AS REQUIRED BY ELECTRICAL UTILITY FOR CONNECTION BY UTILITY.
 - A16. ALL UNDERGROUND SERVICE ENTRANCE POWER CABLES SHALL BE TYPE FOR SUCH USE. CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND RE-SIZE CABLES PER NEC REQUIREMENTS FOR CABLE RUNS EXCEEDING 250 FEET.
- B POWER CABLE AND SERVICE
 - CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO BTS AND VERIFY EXACT CONDUIT ROUTING, RACEWAY SYSTEM B1. MATERIALS AND DEVICES FURNISHED SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS OF ANSI, NEMA, AND UL. RACEWAY SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE N.E.C.
 - B2. A COIL OF WIRE SHALL EXTEND A MINIMUM OF 10 FEET FROM CONDUIT TO PERMIT TERMINATION BY OTHERS.
 - CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS TO PREVENT B3. MOISTURE PENETRATION OR VERMIN INFESTATION.
 - CONDUCTORS RUNNING ALONG HORIZONTAL SURFACES (ROOF TOP OR SLAB) SHALL BE INSTALLED IN RIGID CONDUIT B4. SUPPORTED ON SLEEPERS.
 - B5. ALL VERTICAL RUNS OF POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL BE SUPPORTED PER N.E.C. ARTICLE 300 USING KELLEMS GRIPS OR ACCEPTABLE EQUAL CABLE SUPPORT SYSTEM.
 - B6. WHERE A SEPARATE ELECTRICAL SERVICE DROP IS ADDED, CONTRACTOR SHALL INSTALL PERMANENT SERVICE DISCONNECT OR GROUPING THEREOF, DENOTING ALL OTHER SERVICE ENTRANCES, LOCATION OF EACH AND THE AREAS SERVED BY EACH
 - B7. WHERE ELECTRICAL POWER IS TO BE SUB-FED FROM AN EXISTING DISTRIBUTION SYSTEM, THE FOLLOWING SHALL APPLY:
 - A. CONTRACTOR SHALL PERFORM LOAD TESTING TO DETERMINE MAXIMUM FEEDER DEMAND PER N.E.C. ARTICLE 220-35.
 - B. CONTRACTOR SHALL VERIFY WHETHER EXISTING FEEDER CAPACITY EXCEEDS VALUE CALCULATED PER N.E.C. ARTICLE 220-35 C. FACH BRANCH CIRCUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING RATING AS FOULPMENT SUPPLYING IT.
 - PREFERRED MEANS OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE DEVICE LOCATED IN EXISTING PANEL. D
 - E. IF A BRANCH CIRCUIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR SPACE IS NOT AVAILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM EXISTING FEEDER CONDUCTORS USING AN INSTALLED 2-POLE FUSED DISCONNECT AND METER BASE PER N.E.C. ARTICLE 240-21 WITH TEN FOOT (10) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SHALL BE LISTED SAME OR BETTER INTERRUPTING RATING AS EXISTING SOURCE OF SUPPLY.

- C RF (COAX) AND LOW VOLTAGE CABLE
 - C1. RF CABLES AND LOW VOLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA SHALL BE SUPPORTED USING ANDREW "SNAP-IN" HANGERS OR ACCEPTABLE EQUAL.
 - C2. RF CABLES AND LOW VOLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA SHALL BE ROUTED AS FOLLOWS:
 - A. RUNNING ALONG HORIZONTAL SURFACES: USE WAVEGUIDE SUPPORTS OR BRIDGE KIT MOUNTED ON CONCRETE SLEEPERS.
 - B. RUNNING ALONG VERTICAL TOWER FACE: WAVEGUIDE LADDER W/HANGERS OR KELLEMS GRIPS.
 C. RUNNING ALONG OR ADJACENT TO BTS PLATFORM: USE 12 X 3 OPEN OR COVERED ELECTRICAL LADDER TRAY.
- D- IDENTIFICATION
 - D1. LOCATE NAMEPLATE, MARKING, OR OTHER IDENTIFICATION MEANS ON OUTSIDE EQUIPMENT OR BOX FRONT COVERS.
 - D2. PROVIDE NAMEPLATE ENGRAVED WITH EQUIPMENT DESIGNATION FOR EACH SAFETY SWITCH AND ALL OTHER ELECTRICAL CABINETS, ETC.
 - D3. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.



A – GENERAL

- A1. INSTALLATION OF GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND WITH ALL BUILDING CODES OF AUTHORITIES HAVING JURISDICTION.
- A2. GROUNDING CONDUCTORS SHALL BE #2 AWG TINNED SOLID BARE COPPER BELOW AND ABOVE GRADE, UNLESS OTHERWISE NOTED AND SHALL BE ROUTED IN A DOWNWARD PATH TOWARDS GROUND BARS.
- A3. GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AND DIRECT AS POSSIBLE WITH MINIMUM BEND RADIUS OF 12 INCHES.
- A4. ALL BELOW GRADE CONNECTIONS SHALL BE CADWELD TYPE CONNECTIONS AND ALL CONNECTIONS TO EQUIPMENT AND GROUND BARS SHALL BE 2-HOLE BRONZE COMPRESSION CONNECTORS UNLESS OTHERWISE NOTED.
- A5. CONTRACTOR SHALL INSTALL NEW PCS GROUNDING SYSTEM PER SPECIFICATIONS AND INTERCONNECT NEW SYSTEMS TO ANY EXISTING GROUNDING SYSTEMS AS REQUIRED BY NFPA 70 AND 780 (THIS APPLIES TO ELECTRICAL POWER DISTRIBUTION GROUNDING SYSTEM, LIGHTNING PROTECTION GROUNDING SYSTEM, COAX CABLE GROUNDING SYSTEM AND ANY OTHER EXISTING GROUNDING SYSTEMS).
- A6. GROUNDING CONDUCTORS SHALL BE BONDED TO CABLE SUPPORTS, ANTENNA FRAMES, AND ANY SUPPORT FRAMES OR RACKS USING CADWELD OR MECHANICAL CONNECTIONS.
- A7. CONTRACTOR SHALL PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS, STAINLESS STEEL HARDWARE SHALL BE USED THROUGHOUT.
- A8. GROUNDING CONDUCTORS EMBEDDED IN CONCRETE OR PENETRATING WALLS AND FLOORS SHALL BE ENCASED IN PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS UNLESS REQUIRED BY LOCAL CODES OR OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE PENETRATION AND VERMIN INFESTATION.
- A9. CONTRACTOR SHALL BOND PCS GROUNDING SYSTEM VIA THE MASTER GROUND BAR TO ALL METAL OBJECTS WITHIN 12 FEET OF EQUIPMENT, CONDUIT AND CABLES.
- A10. BONDING OF GROUNDED CONDUCTOR (NEUTRAL) AND GROUNDING CONDUCTOR SHALL BE AT SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-28.
- A11. CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING FOR GROUNDING CONDUCTORS WHERE APPLICABLE.
- A12. A GROUND LEAD IS REQUIRED ONLY FOR BTS SUPPORTED ON STEEL FRAME. AN ADDITIONAL GROUND LEAD IS REQUIRED IF CABLE TRAY IS USED.
- A13. CONNECTIONS TO CGB SHALL BE ARRANGED IN THE FOLLOWING THREE GROUPS:
 - * SURGE PRODUCERS (COAXIAL CABLE GROUND KITS, TELCO CABINET AND POWER PEDESTAL GROUND).
 - * SURGE ABSORBERS (GROUNDING ELECTRODE RING OR BUILDING STEEL).
 - * NON-SURGING OBJECTS (EGB GROUND IN BTS).
- A14. DOUBLING OR STACKING OF ANY GROUNDING CONNECTIONS IS NOT ACCEPTABLE.
- A15. ALL GROUND BARS SHALL BE INSTALLED WITH STAND OFF INSULATORS.
- B PREPARATION
- B1. SURFACES: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED TO ENSURE PROPER CONTACT. ALL GALVANIZED SURFACES ON WHICH GALVANIZING HAS BEEN REMOVED BY CUTTING, DRILLING, OR ANY OTHER OPERATION SHALL BE RE-GALVANIZED IN ACCORDANCE WITH ASTM A780 USING "ZINC RICH" COATING AS MANUFACTURED BY ZRC CHEMICAL PRODUCTS COMPANY (LOCATED IN QUINCY, MASSACHUSETTS), OR ACCEPTABLE EQUAL. NO WASHERS ARE ALLOWED BETWEEN ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED PRIOR TO INSTALLATION.
- B2. GROUND BAR: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED. NO FINGER PRINTS OR DISCOLORED COPPER SHALL BE PERMITTED.
- C BUILDINGS
- C1. ELECTRICAL CONTRACTOR SHALL PERFORM REQUIRED TESTING ON GROUNDING SYSTEM ONCE GROUNDING SYSTEM IS COMPLETELY CONSTRUCTED AND BEFORE SERVICE POWER AND GROUND IS CONNECTED (SEE NOTE T1 FOR TEST DESCRIPTION).
- C2. A #4/0 AWG COPPER CONDUCTOR SHALL BE ROUTED FROM MASTER GROUND BAR AT BTS SITE TO MAIN METAL COLD WATER PIPE AND BONDED TO PIPE WITH BRONZE 2-HOLE PIPE CLAMP. CLAMP SHALL BE CONNECTED TO WATER PIPE WITHIN 5 FEET OF ENTRY OF PIPE INTO BUILDING WITH NO DEVICES BETWEEN ENTRY POINT AND CONNECTION AND SHALL COME IN CONTACT WITH PIPE FOR A MINIMUM DISTANCE OF 4 INCHES.
- C3. METAL RACEWAYS, ENCLOSURES, FRAMES AND OTHER NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT SHALL BE KEPT AT LEAST 6 FEET AWAY FROM LIGHTNING ROD CONDUCTORS OR THEY MUST BE BONDED TO LIGHTING ROD CONDUCTORS AT THE LOCATION WHERE SEPARATION DISTANCE IS LESS THAN 6 FEET.
- C4. A MASTER GROUND BAR (MGB) SHALL BE INSTALLED NEAR BTS WITH BUILDING PRINCIPAL GROUND BAR (BPG) INSTALLED NEAR ENTRANCE OF MAIN METAL COLD WATER PIPE INTO BUILDING. A #4/0 AWG STRANDED COPPER DOWN CONDUCTOR (VERTICAL GROUND RISER) SHALL BE USED TO INTERCONNECT GROUND BARS.
- C5. VERTICAL RISER SHALL CONSIST OF A #4/0 AWG (THWN) STRANDED COPPER CONDUCTOR INSIDE 3/4" CONDUIT.
- C6. CONTRACTOR SHALL BOND BUILDING PRINCIPAL GROUND BAR (BPG) NEAR MAIN METAL COLD WATER PIPE TO EXISTING BUILDING GROUND RING AS WELL AS TO MAIN METAL COLD WATER PIPE WITH #4/0 AWG (THWN) STRANDED COPPER CONDUCTOR.
- C7. ANTENNA GROUND BARS (AGB) SHALL BE INSTALLED NEAR ANTENNAS AND SHALL BE BONDED TO MASTER GROUND BAR (MGB) WITH #2 AWG TINNED SOLID BARE COPPER CONDUCTOR.
- C8. F CODES REQUIRE VERTICAL RISER TO BE ISOLATED IN CONDUIT, PVC CONDUIT IS PREFERRED. IF METALLIC CONDUIT IS USED, GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF THE CONDUIT AND BONDED TO GROUND BARS USING #2 AWG (THWN) STRANDED COPPER CONDUCTORS WITH GREEN INSULATION.

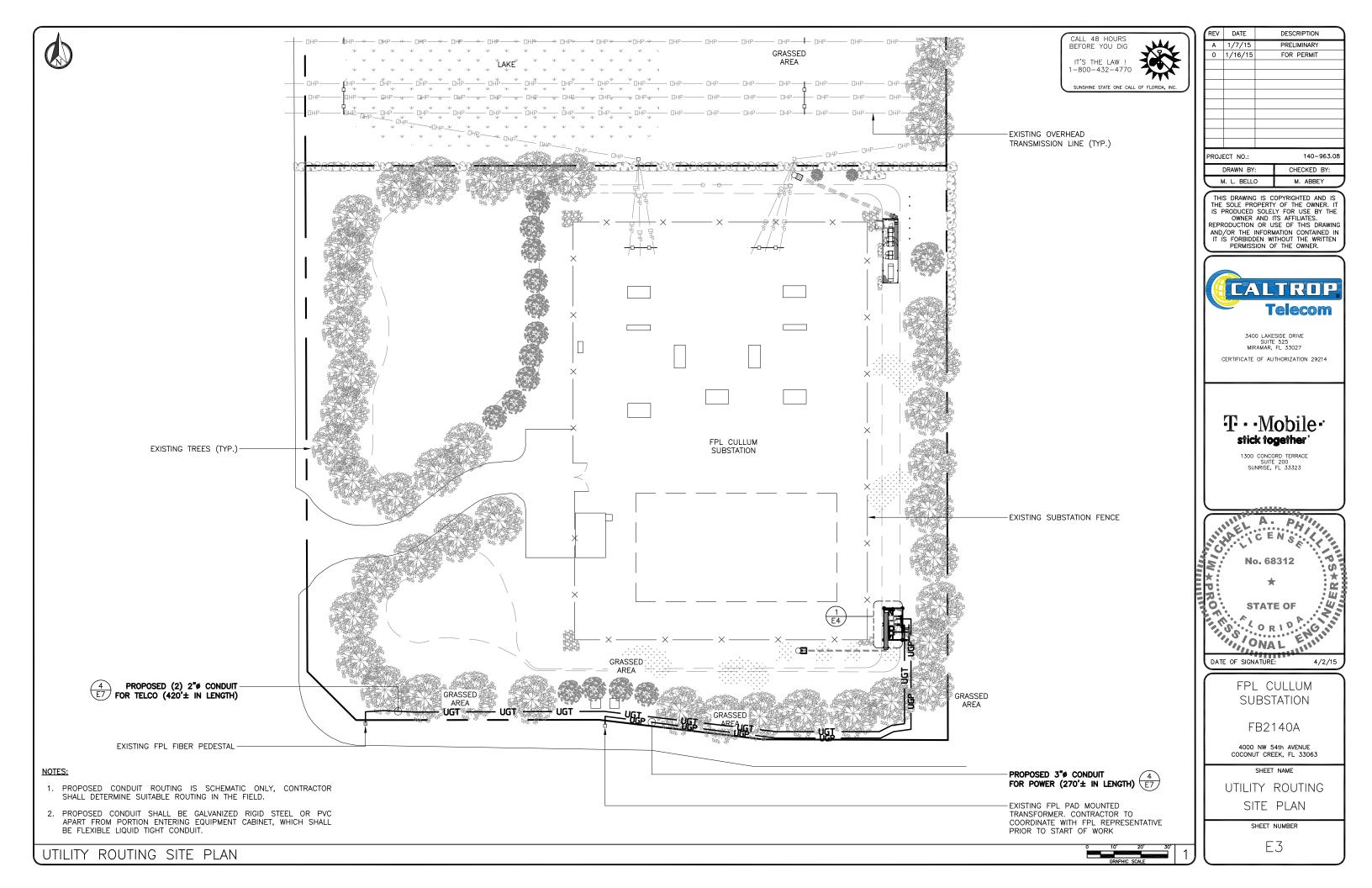
- D LAND BUILDS AND CO-LOCATES
 - D1. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS UNIFORMLY SPACED AROUND THE EQUIPMENT FOUNDATION AND AROUND THE PERIMETER OF THE TOWER FOUNDATION. THE GROUND RODS SHALL BE ⁵/₈" X 10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 SOLID TINNED BARE COPPER GROUND CONDUCTOR TO FORM A GROUND RING AT A DEPTH OF 30 INCHES BELOW THE SURFACE OF THE SOLIL. A MINIMUM OF 1 FOOT AND A MAXIMUM OF 3 FEET CLEARANCES SHALL BE MAINTAINED FROM FOUNDATIONS. TOWER AND EQUIPMENT GROUND RINGS SHALL BE INTERCONNECTED WITH TWO GROUNDING CONDUCTORS OF EQUAL LENGTH AND MATERIALS.
 - D2. GROUND RODS SHALL BE BONDED TO GROUND RINGS AND INTERCONNECTING CONDUCTORS AT EQUAL INTERVALS OF APPROXIMATELY 10 FEET.
 - D3. WAVEGUIDE BRIDGE SHALL BE BONDED TO GROUND RINGS OR INTERCONNECTING CONDUCTORS WITH GROUNDING CONDUCTORS BONDED TO DIAGONALLY OPPOSED SUPPORT POSTS.
- D4. GROUND BARS SHALL BE BONDED TO GROUND RING WITH SINGLE GROUNDING CONDUCTOR
- D5. BONDS TO ANTENNA MASTS, FENCE POSTS, WAVEGUIDE BRIDGE, TOWER STEEL (UNLESS PROHIBITED BY TOWER MANUFACTURER) AND THOSE BELOW GRADE SHALL BE EXOTHERMIC TYPE (CADWELD). ALL OTHER BONDS SHALL BE BRONZE 2-HOLE COMPRESSION FITTINGS UNLESS OTHERWISE NOTED
- D6. GROUNDING CONDUCTORS MAKING A TRANSITION FROM ABOVE TO BELOW GRADE SHALL BE INSULATED FROM EARTH CONTACT BY PASSING THROUGH PVC CONDUIT. THE CONDUIT SHALL EXTEND AT LEAST 6 INCHES ABOVE AND 12 INCHES BELOW GRADE LEVEL.
- E LIGHTNING PROTECTION
- E1. IF EXISTING BUILDING HAS AN NFPA 780 AIR TERMINAL SYSTEM, EXISTING SYSTEM SHALL BE BONDED TO A GROUND BAR TO BOND THE EXISTING SYSTEM TO THE NEW SYSTEM. SHOULD THE EXISTING SYSTEM COME WITHIN 8 FEET OF ANTENNA STRUCTURES, EXISTING SYSTEM SHALL ALSO BE BONDED TO COAX GROUND BARS.
- E2. IF SITE IS IN A HIGH RISK AREA AND ANTENNAS DO NOT FALL WITHIN EXISTING CONE OF PROTECTION FOR BUILDING, AIR TERMINALS SHALL BE INSTALLED AT ANTENNAS. A SINGLE AIR TERMINAL MAY BE USED WHEN TWO ANTENNAS ARE MOUNTED ON SAME STRUCTURE AND IT HAS BEEN DETERMINED THAT BOTH ANTENNAS WILL FALL WITHIN LIGHTNING CONE OF PROTECTION FOR SINGLE AIR TERMINAL.

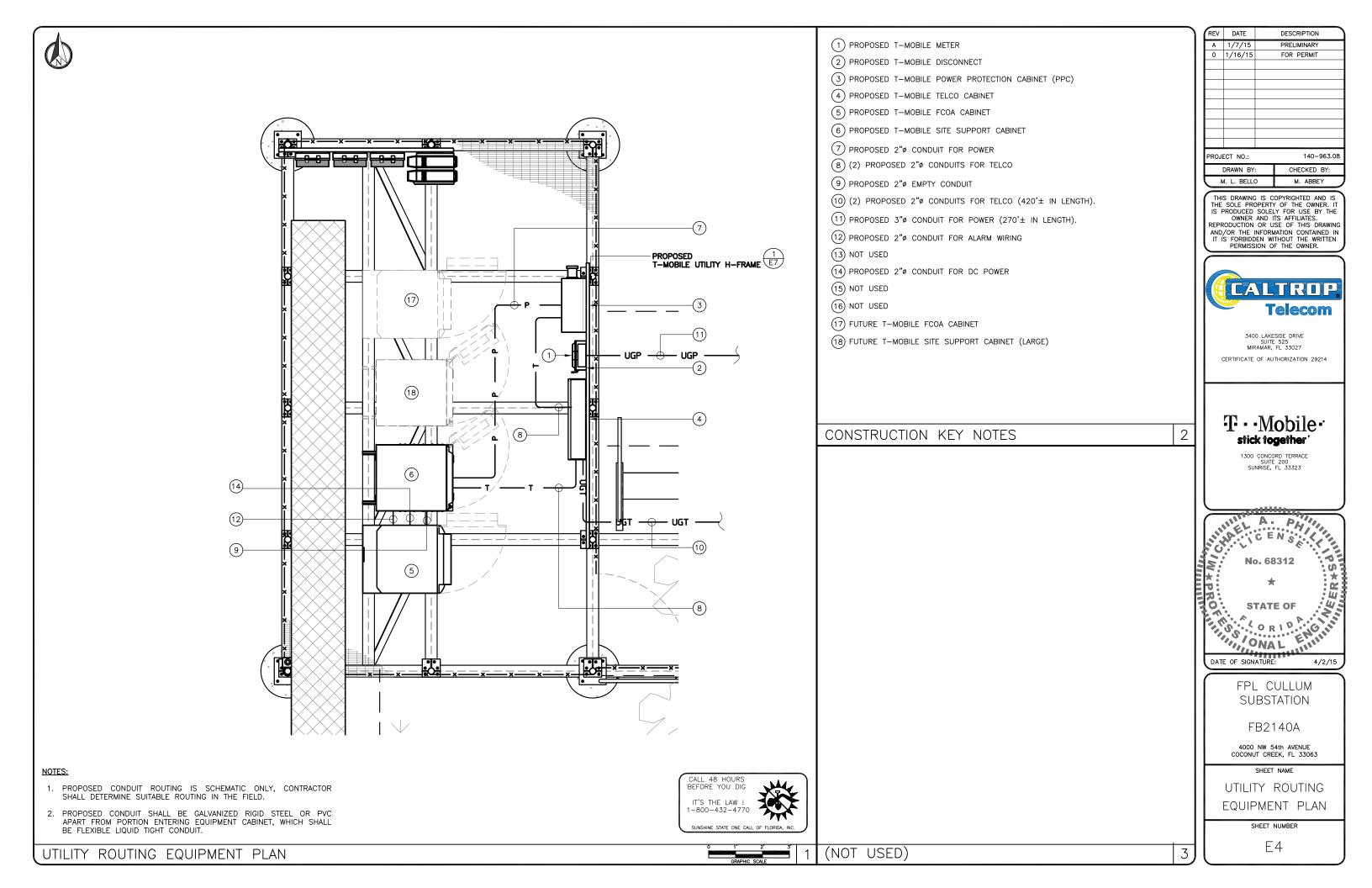
T-MOBILE GROUNDING REQUIREMENTS

- T1. CONTRACTOR SHALL INSPECT AND TEST ANY NEW OR EXISTING T-MOBILE GROUNDING SYSTEM WITH A BIDDLE-MEGGER TESTER UTILIZING THE FALL OF POTENTIAL METHOD AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDS 5 OHMS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. TEST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE-OUT DOCUMENTATION.
- T2. COAX CABLE OUTER CONDUCTORS (SHIELDS) SHALL BE GROUNDED USING COAX GROUNDING KITS AT A MINIMUM OF TWO POINTS, INCLUDING AT ANTENNA AND AT MASTER GROUND BAR. THE COAXIAL CABLE SHALL NOT EXCEED 100 FEET BETWEEN GROUNDING KITS.
- T3. GROUNDING CONDUCTOR CONSISTING OF #2 AWG TINNED SOLID BARE COPPER WIRE SHALL BE BONDED TO WAVEGUIDE ENTRY GROUND BAR USING CADWELD CONNECTIONS.
- T4. COAX CABLE ENTERING A BUILDING SHALL BE GROUNDED WITH COAX GROUNDING KITS TO AN INSULATED COAX GROUND BAR WHICH SHALL BE INSTALLED ON THE OUTSIDE FACE OF THE BUILDING, BELOW THE CABLE ENTRY PORTS.
- T5. WHEN COAX CABLES ENTER A BUILDING FROM A TOWER, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE EXTERNAL GROUND RING USING #2 AWG BARE TINNED SOLID COPPER ISOLATED IN PVC CONDUIT.
- T6. WHEN COAX CABLES ENTER A BUILDING FROM A ROOF TOP, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE MASTER GROUND BAR NEAR THE BTS USING #2 AWG STRANDED INSULATED COPPER CONDUCTOR (SEE BUILDINGS NOTES ON THIS DRAWING FOR CONNECTION TO PRINCIPLE GROUND BAR AND BUILDING GROUND).

GROUNDING NOTES

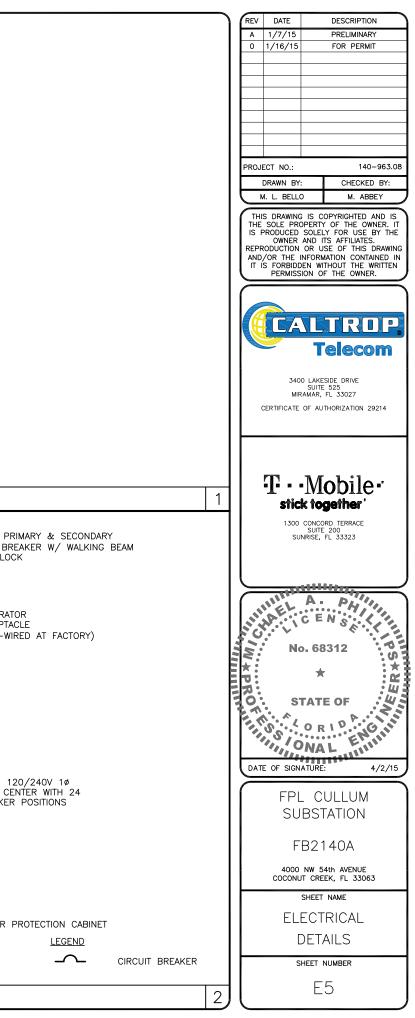
DATE DESCRIPTION REV A 1/7/15 PRELIMINARY 0 1/16/15 FOR PERMIT PROJECT NO. 140-963.08 DRAWN BY CHECKED BY M. L. BELLO M. ABBEY THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. I IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES REPRODUCTION OR USE OF THIS DRAWIN AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER. Telecom 3400 LAKESIDE DRIVE SUITE 525 MIRAMAR, FL 33027 CERTIFICATE OF AUTHORIZATION 29214 **T**··Mobile· stick together 1300 CONCORD TERRACE SUITE 200 SUNRISE, FL 33323 TTIIII, EL A PH CEN cHA. No. 68312 : (A * 2 0 **STATE OF** FINS ORIDING CORID DATE OF SIGNATURE: 4/2/15 FPL CULLUM SUBSTATION FB2140A 4000 NW 54th AVENUE COCONUT CREEK, FL 33063 SHEET NAME GROUNDING NOTES SHEET NUMBER E2

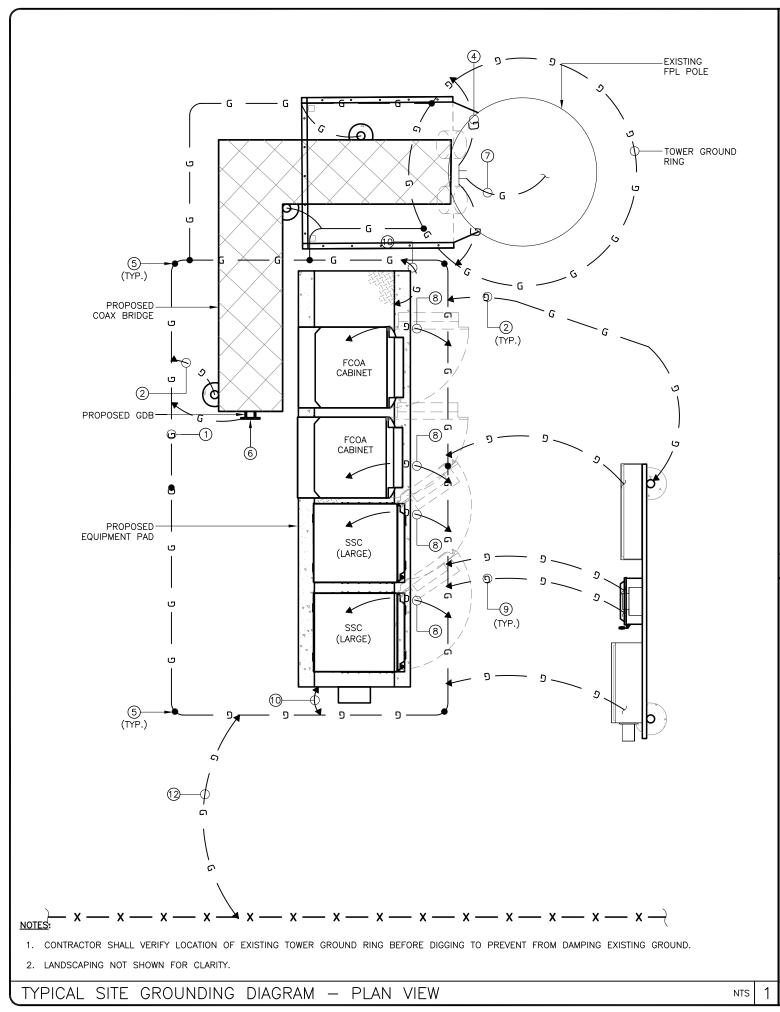




	PANEL LOCAT	NAME: T-MOBILE ION: PPC	PANE			1	20/240	AMPS VOLTS	6	PHASE WIRE	3				X MCB RATING 200 MAIN LUG ONLY	AMP
	СКТ	DESCRIPTION		VA	AMP POLE	WIRF	GND	COND	COND	GND	WIRF	AMP	K	VA	DESCRIPTION	СКТ
	NO.		A		POLE							POLE				NO.
	1	SITE SUPPORT CABINET	9.6	- 9.6	100/2	#2	#8	2"	*	*	*	60/2	0	-	SURGE SUPPRESSOR	2
	5	SPACE	-	9.6					*	*	*	15/1	-		GFI	6
	7	SPACE	-	<u> </u>				<u> </u>				10/1	-	<u> </u>	SPACE	8
	9	SPACE		- 1									<u> </u>	-	SPACE	10
	11	SPACE	-										-		SPACE	12
	13	SPACE		- 1										- 1	SPACE	14
	15	SPACE	-										-		SPACE	16
	17	SPACE		-										-	SPACE	18
	19	SPACE	-										-		SPACE	20
	21	SPACE		-										-	SPACE	22
	23	SPACE	-										-		SPACE	24
		SUB TOTAL KVA (CONT)	0										0	0	SUB TOTAL KVA (CONT)	
	S	UB TOTAL KVA (NON-CONT)	9.6	9.6									0.18	0	SUB TOTAL KVA (NON-CON	1T)
					1	9.4					80	.8			TOTAL AMPS	
		NON-CONT + 125% CONT. PRE WIRED AT FACTORY														
														 [
PROPOSED T-MOBILE 200A, 10, 240V NEMA 3R]	
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES													[]	
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3)													[]	
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES																
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER								SSC				2	2P-10	10A 2F		E SUPPRESSOR RED AT FACTO
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3)	(Ĵ MĴ-┯-ſ¯Ĵ-┯						SSC]-		2	2P-10			
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER	•							SSC					2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE								SSC					[2P-10			RED AT FACTO
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE	(SSC				2	[2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE	(SSC					[2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE								SSC					[GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE								SSC				2	2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE								SSC				2	2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE 								SSC								GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE 3#4/0 - 3"¢C 1#2G, ¾"¢C								SSC					[GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE 3#4/0 - 3"øC 1#2G, ¾"øC								SSC					[22P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE 3#4/0 - 3"¢C 1#2G, ¾"¢C								SSC					[GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE 3#4/0 - 3"¢C 1#2G, ¾"¢C 3#3/0, 1#4G - 2"¢C								SSC					[2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER								SSC					[2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE 3#4/0 - 3"¢C 1#2G, ¾"¢C 3#3/0, 1#4G - 2"¢C 3#3/0, 1#4G - 2"¢C POWER PROTECTION CABINET (PPC) INCLUDES A GENERATO			SWITCH	, 200	A			SSC					2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE 3#4/0 - 3"¢C 1#2G, ¾"¢C 3#3/0, 1#4G - 2"¢C			SWITCH	, 200	A			SSC					2P-10			GFI
FUSIBLE DISCONNECT W/200A, 100K AIC FUSES (SEE NOTE 3) PROPOSED T-MOBILE METER FROM UTILITY POLE 	DR RECEPTA	CLE, WALKING BEAM TRANSFER						SSC					2P-10			GFI

ELECTRICAL ONE-LINE





- THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
- RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION.
- MANAGER
- BACKFILL WITH GROUND ENHANCEMENT MATERIAL.

- AT DIAGONALLY OPPOSITE CORNERS OF PLINTH.
- EQUIPMENT GROUND RING
- SUBSTATION GROUND RING.

