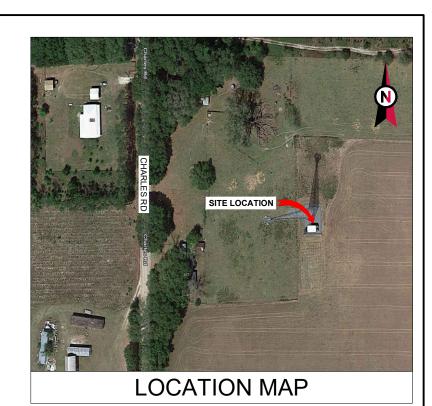




# **AMERICAN TOWER®**

ATC SITE NAME: COLUMBIA (CHARLES) FL ATC SITE NUMBER: 417139 T-MOBILE SITE NAME: 9JK2817A (USA) T-MOBILE SITE NUMBER: 9JK2817A SITE ADDRESS: CHARLES TERRACE LAKE CITY,FL 32024 SITE CLASS: SELF SUPPORT



# T-MOBILE COVERAGE STRATEGY COLLOCATION PLAN 4SEC-67E5D998E 6160 CONFIGURATION

COMPLIANCE CODE	PROJECT S	UMMARY	PROJECT DESCRIPTION	SHEET INDEX					
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED	SITE ADD	RESS:		SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL	CHARLES T			G-001	TITLE SHEET	0	02/06/23	MS	
GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO	LAKE CITY,F			G-002	GENERAL NOTES	0	02/06/23	MS	
THESE CODES.	COUNTY: CO	DLUMBIA	THE PROPOSED PROJECT INCLUDES INSTALLING EQUIPMENT CABINETS ON A PROPOSED CONCRETE PAD	C-101	DETAILED COMPOUND PLAN	0	02/06/23	MS	
1. 2020 FLORIDA BUILDING CODE, 7TH EDITION	GEOGRAPHIC CC	ORDINATES:	INSIDE A 10' X15' GROUND SPACE WITHIN THE EXISTING	C-201	TOWER ELEVATION	0	02/06/23	MS	
<ol> <li>ANSI/TIA-222-H</li> <li>7TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)</li> </ol>	LATITUDE: 30		COMPOUND, AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING TOWER.	C-401	ANTENNA INFORMATION & SCHEDULE	0	02/06/23	MS	
<ol> <li>2017 NATIONAL ELECTRICAL CODE</li> <li>BASIC WIND SPEED: 118 MPH Vult (3-SECOND GUST) EXPOSURE CATEGORY: C RISK CATEGORY: II</li> </ol>	LONGITUDE: -8			C-501	CONSTRUCTION DETAILS	0	02/06/23	MS	
	GROUND ELEVATI	ON: 104' AMSL		C-502	CONSTRUCTION DETAILS	0	02/06/23	MS	
	ZONING INFO	RMATION:		C-503	CONSTRUCTION DETAILS	0	02/06/23	MS	
CITY/COUNTY ORDINANCES	JURISDICTION: COLU	MBIA COUNTY. FL		C-504	CONSTRUCTION DETAILS	0	02/06/23	MS	
	APN: 304S16				GROUNDING DETAILS & ELECTRICAL SCHEMATIC	0	02/06/23	MS	
	ZONING CO	DE: N/A	PROJECT NOTES	E-102	PANEL SCHEDULE & ONE-LINE DIAGRAM	0	02/06/23	MS	
	PROJECT	TEAM	1. THE FACILITY IS UNMANNED.	E-501	GROUNDING DETAILS	0	02/06/23	MS	
-			2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.	R-601	SUPPLEMENTAL				
	AMERICAN TOWER T-MOBIL 10 PRESIDENTIAL WAY 5901 BENJAMIN WOBURN, MA 01801 DRIVE, SUITE	APPLICANT:	3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.	R-602	SUPPLEMENTAL				
		T-MOBILE	4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL	R-603	SUPPLEMENTAL				
UTILITY COMPANIES		DRIVE, SUITE 110 A-B	IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	R-604	SUPPLEMENTAL				
		TAMPA, FL 33634	6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED	R-605	SUPPLEMENTAL				
POWER COMPANY: N/A PHONE: N/A			REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN	R-606	SUPPLEMENTAL				
TELEPHONE COMPANY: N/A	PROFESSIONAL OF RECORD:		EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF	R-607	SUPPLEMENTAL				
PHONE: N/A	ROBERT J. LARA, AIA		TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	R-608	SUPPLEMENTAL				
	2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324		<b>3 3 3 3 3 3 3 3 3 3</b>	- R-609	SUPPLEMENTAL				
GuineBillio	(954) 577-4668		PROJECT LOCATION DIRECTIONS	R-610	SUPPLEMENTAL				
STITE THE STITE	rlara@morrisonhershfield.com			R-611	SUPPLEMENTAL				
	PROPERTY OWNER:		FROM I-75 TAKE EXIT 427 ONTO US-90.3 MILES TURN LEFT ONTO W	R-612	SUPPLEMENTAL				
Call 811 or visit sunshine811.com two full business days before digging to have buried	CHARLES LUTHER DANIEL		US 90.6 MILES TURN LEFT ONTO SW CTY RD 252B2.2 MILES TURN RIGHT ONTO SW STATE RD 2474.2 MILES TURN RIGHT ONTO	R-613	SUPPLEMENTAL			_	
facilities located and marked.	1119 SW CYPRESS LAKE DR LAKE CITY.FL 32024		CYPRESS LAKE RD1 MILE TURN RIGHT ONTO SW CHARLES TER.4	R-614	SUPPLEMENTAL				
check positive response codes before you dig!	LANE OFFI, IE JZUZ4		MILES ACCESS ROAD ON RIGHT	R-615	SUPPLEMENTAL				

AMERICAN TO	VER®
MORRISON HERS	
2 S UNIVERSITY DR., UNI	T 245
PLANTATION, FL 3332	4
Tel: 954.577.4655 FL C OF A #8508	
FL Architect business #AA260 www.morrisonhershfield.c	
DO NOT SCALE DRAWING. CONTR	ACTOR MUST
VERIFY ALL DIMENSIONS AND ADVISE OF ANY ERRORS OR OMISSIONS. TH	
CONTAINED IN THIS SET OF DOC PROPRIETARY BY NATURE. ANY USE	CUMENTS IS
OTHER THAN WHICH IS RELATED TO N	NAMED CLIENT IS
STRICTLY PROHIBITED. NEITHER T NOR THE ENGINEER WILL BE PROV	
CONSTRUCTION REVIEW OF THIS F	PROJECT. ALL
PREVIOUS ISSUES OF THIS DRA SUPERSEDED BY THE LATEST	
REV. DESCRIPTION	BY DATE
	NY 01/10/23
FINALS	<u>MS_02/06/23</u>
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#### GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
  - AC/TELCO INTERFACE BOX (PPC)
  - ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES TOWER LIGHTING
  - GENERATORS & LIQUID PROPANE TANK
  - ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- ANTENNAS (INSTALLED BY OTHERS)
- TRANSMISSION LINE
- TRANSMISSION LINE JUMPERS TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
- TRANSMISSION LINE GROUND KITS
- HANGERS HOISTING GRIPS
- O. BTS EQUIPMENT
- 2 THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS GROUNDING RINGS GROUNDING WIRES COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS 7
- 8 DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION 9. SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED 10. FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS 11. DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE 12. REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS. 13.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS 14. PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION LISING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE 17. AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- 18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER 19. CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) 20. /ITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WOR
- 21. PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH T-MOBILE. REP. TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

- 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP 3. TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS. 23.

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- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. 26. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- 30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS. NEAT AND WORKMANI IKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED
- 31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
- T-MOBILE FURNISHED FOUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE 32. NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP
- T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH. IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER

#### SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- WORK INCLUDED:
- ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL
- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND T-MOBILE SPECIFICATIONS
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
- E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RES "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- G. ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

#### CONCRETE AND REINFORCING STEEL NOTES:

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE EMENTS FOR REINFORCED CONCRETE."
- MIX DESIGN SHALL BE APPROVED BY T-MOBILE REP PRIOR TO PLACING CONCRETE
- CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PS UNLESS OTHERWISE NOTED.

THE FOLLOWING MATERIALS SHALL	BE USED:
PORTLAND CEMENT:	ASTM C150, TYPE 2
REINFORCEMENT:	ASTM A185, PLAIN STEEL WELDED WIRE FABRIC
REINFORCEMENT BARS:	ASTM A615, GRADE 60, DEFORMED
NORMAL WEIGHT AGGREGATE:	ASTM C33
WATER:	ASTM C 94/C 94M
WELDED WIRE FABRIC: ADMIXTURES:	ASTM A185
-WATER-REDUCING AGE	ENT: ASTM C 494/C 494M, TYPE A
-AIR-ENTERING AGENT:	ASTM C 260/C 260M
-SUPERPLASTICIZER:	ASTM C494, TYPE F OR TYPE G
-RETARDING:	ASTM C 494/C 494M, TYPE B

- MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3"
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4. UNLESS NOTED OTHERWISE
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN 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 PRIOR APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE 10 SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- 11. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- 13 FOR COLD-WEATHER (ACI 306) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC, SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM
- 14. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
- SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL ENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD 16. PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- 17 ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS. UNLESS SHOWN IN THE CONTRACT DRAV
- LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS
- 19 SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".
- 20. BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.
- SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" 22 GRAVEL BENEATH SLAB

#### ELECTRICAL NOTES:

ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE **RESPONSIBILITY OF THE GENERAL CONTRACTOR.** 

AND STATE CODES AND NATIONAL ELECTRICAL CODE.

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- ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES,
- THE COURSE OF CONSTRUCTION

CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIEV THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

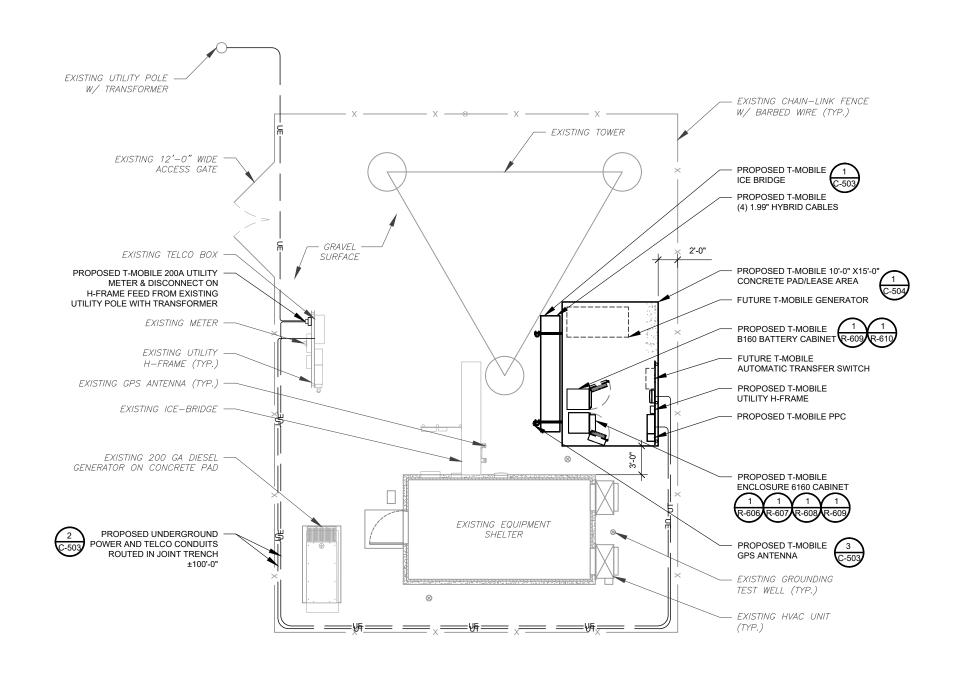
CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN

AMERICAN TOWER MORRISON HERSHFIELD 2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 Tel: 954.577.4655 FL C OF A #8508 FL Architect business #AA26002368 www.morrisonhershfield.com DO NOT SCALE DRAWING. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. REV DESCRIPTION BY DATE PRELIM NY 01/10/23 FINALS MS\_02/06/23 ATC SITE NUMBER 417139 ATC SITE NAME: COLUMBIA (CHARLES) FL T-MOBILE SITE NAME 9JK2817A (USA) SITE ADDRESS: CHARLES TERRACE LAKE CITY.FL 32024 SEAL EOF FLOD 0 ycn 20BERT J. LAR RE AR 92824 FRED ARC **T** Mobile MH PROJ NO: 220329500 ATC PROJ. #: 14192636 9JK2817A (USA) CUST ID. CUST. #: 9JK2817A GENERAL NOTES SHEET NUMBER: REVISION G-002 0

#### COMPOUND PLAN NOTES:

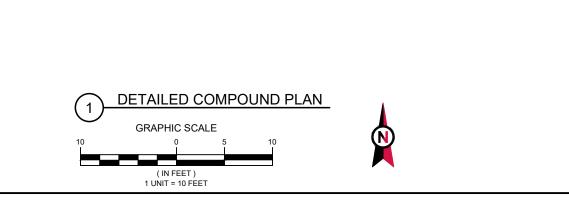
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT
- 2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT

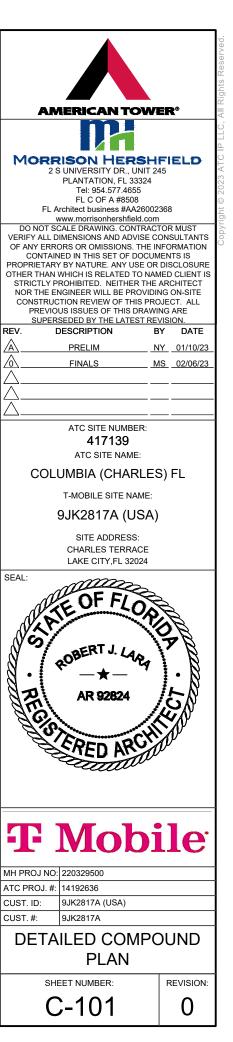
	LEGEND
8	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
В	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
К	KENTROX BOX
LC	LIGHTING CONTROL
М	METER
PB	PULL BOX
PP	POWER POLE
т	TELCO
TRN	TRANSFORMER
 	CHAINLINK FENCE



#### PROPOSED CABLE NOTES:

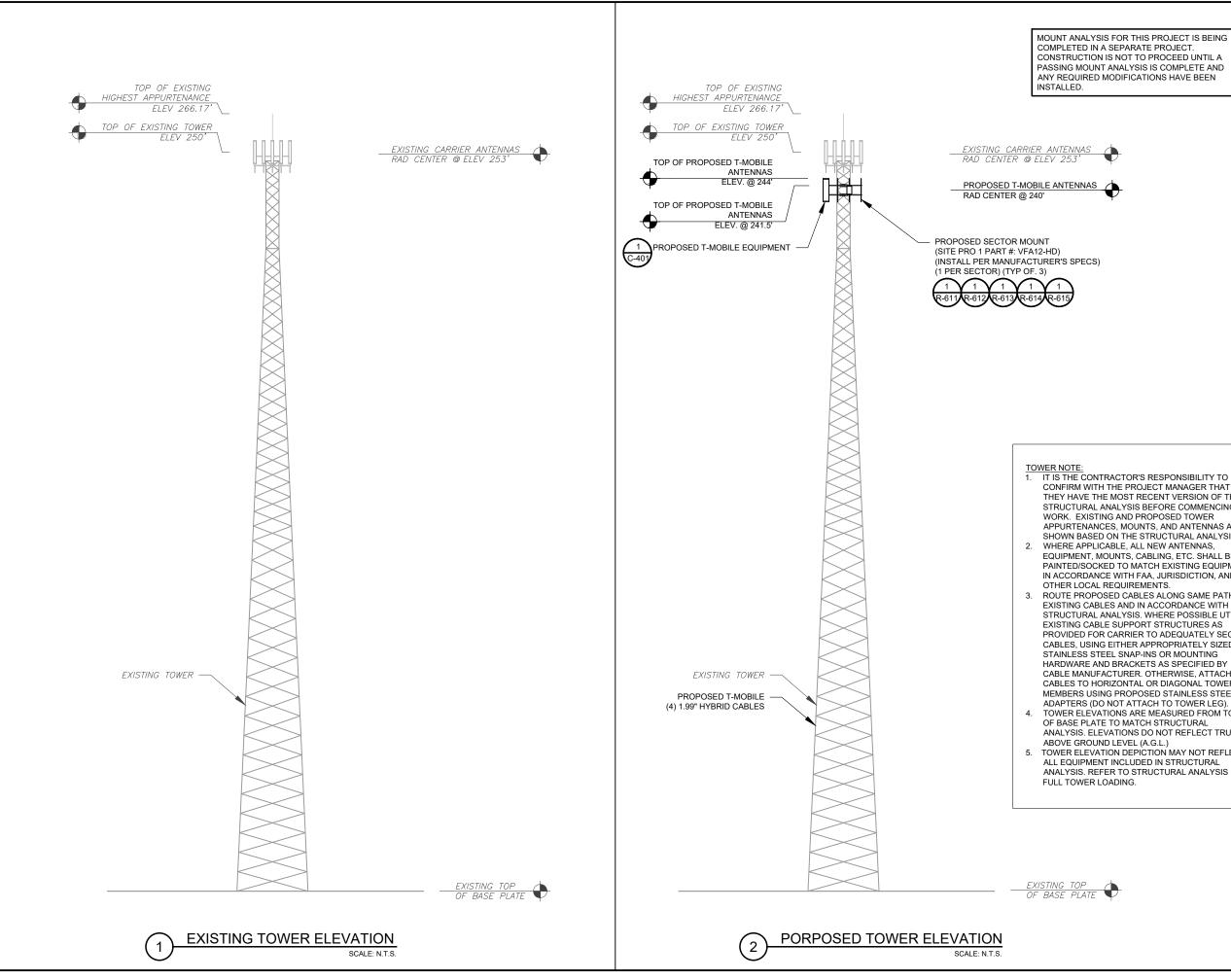
- ESTIMATED LENGTH OF PROPOSED CABLE IS  $\pm 302^{\circ}$ . ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG)





REV.

SEAL:



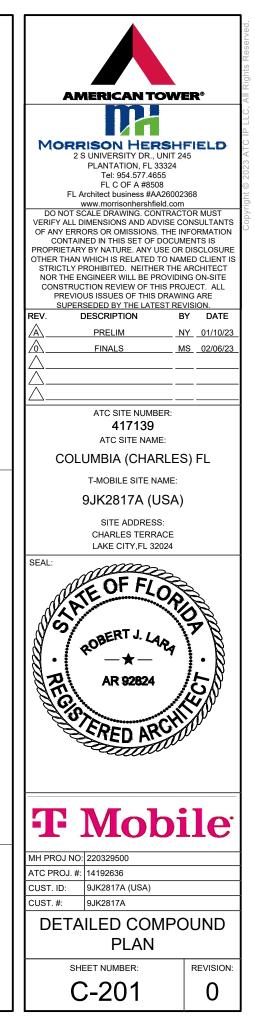
MOUNT ANALYSIS FOR THIS PROJECT IS BEING COMPLETED IN A SEPARATE PROJECT. CONSTRUCTION IS NOT TO PROCEED UNTIL A PASSING MOUNT ANALYSIS IS COMPLETE AND ANY REQUIRED MODIFICATIONS HAVE BEEN

CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS. 2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC, SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR

ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG). TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL

ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.) TOWER ELEVATION DEPICTION MAY NOT REFLECT

ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR



ANTENNA SCHEDULE

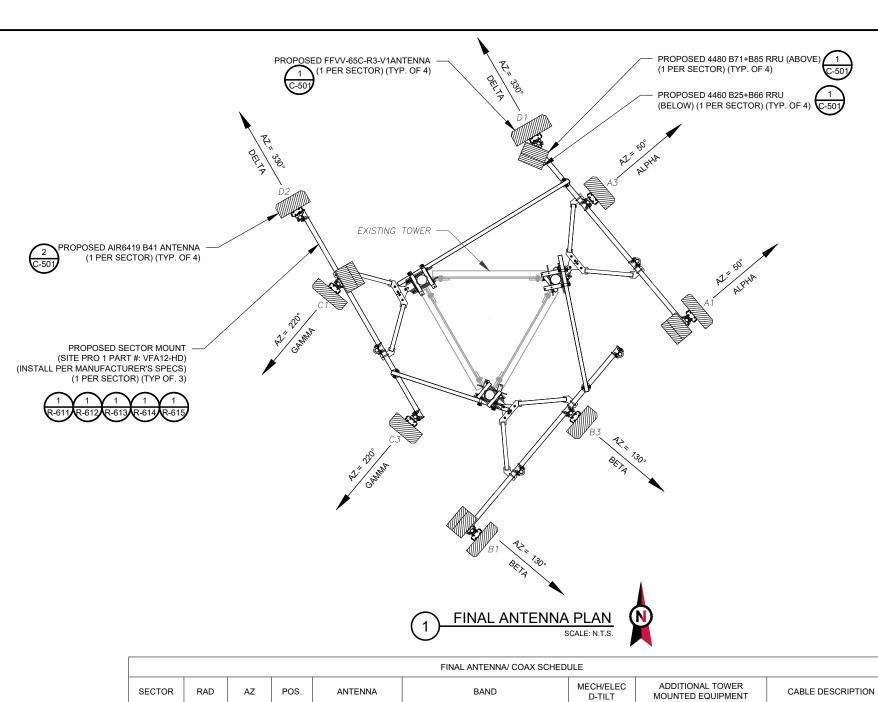
2

4. INSTALL [TOWER JUNCTION BOX MODEL AND QUANTITY].

3. SPACING OF PROPOSED EQUIPMENT SHALL BE CONFIRMED FOR TOWER CONFLICTS AND PROPOSED MOUNTS SHALL NOT IMPEDE TOWER CLIMBING PEGS.

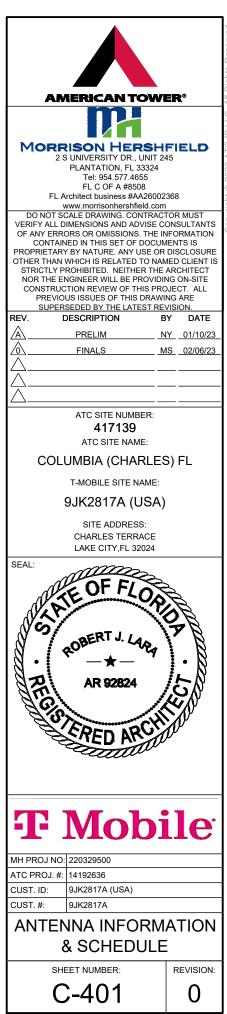
2. ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH THE ATC CM.

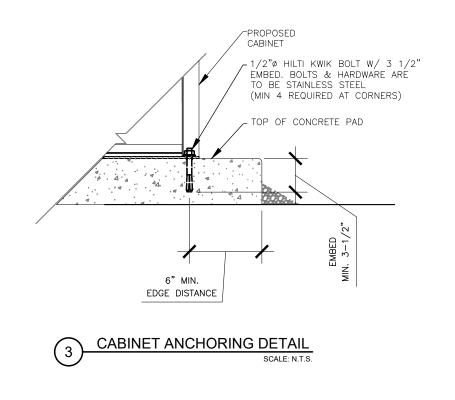
ALPHA	240'	50°	A1	FFVV-65C-R3-V1	L700/L600/N600/L2100/L1900/N1900	0°/-	(1) 4480 B71+B85 RRU (1) 4460 B25+B66 RRU	
			A3	AIR 6419 B41	N2500	0°/-	-	
BETA	240'	130°	B1	FFVV-65C-R3-V1	L700/L600/N600/L2100/L1900/N1900	0°/-	(1) 4480 B71+B85 RRU (1) 4460 B25+B66 RRU	
			B3	AIR 6419 B41	N2500	0°/-	-	(4) 1.99" HYBRID CABLES
GAMMA	240'	220°	C1	FFVV-65C-R3-V1	L700/L600/N600/L2100/L1900/N1900	0°/-	(1) 4480 B71+B85 RRU (1) 4460 B25+B66 RRU	(4) 1.99 HTERID CABLES
			C3	AIR 6419 B41	N2500	0°/-	-	
DELTA	240'	330°	D1	FFVV-65C-R3-V1	L700/L600/N600/L2100/L1900/N1900	0°/-	(1) 4480 B71+B85 RRU (1) 4460 B25+B66 RRU	
			D2	AIR 6419 B41	N2500	0°/-	-	
1. CONFIRM	1 WITH CAF	RIER REP	FOR APPL	ICABLE UPDATES/REV	/ISIONS AND MOST RECENT RFDS.			



INSTALLED.

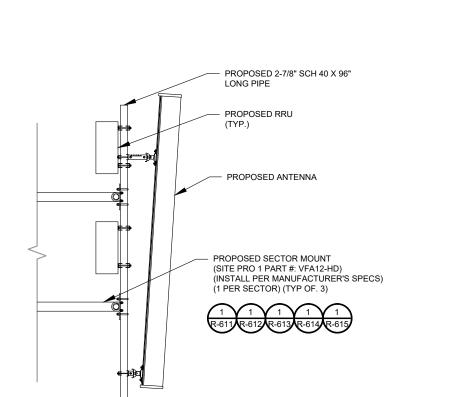
MOUNT ANALYSIS FOR THIS PROJECT IS BEING COMPLETED IN A SEPARATE PROJECT. CONSTRUCTION IS NOT TO PROCEED UNTIL A PASSING MOUNT ANALYSIS IS COMPLETE AND ANY REQUIRED MODIFICATIONS HAVE BEEN

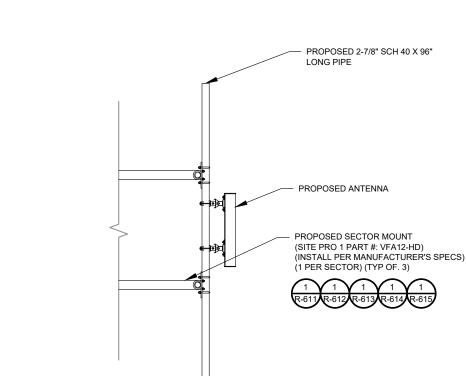






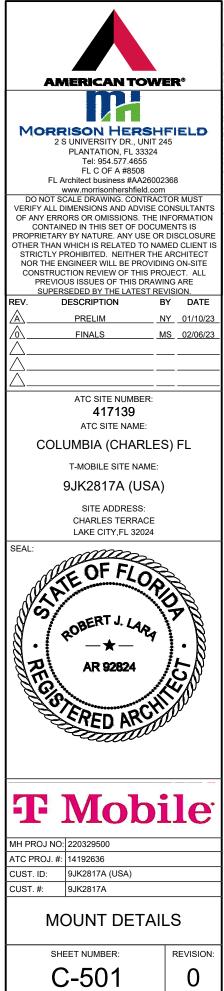


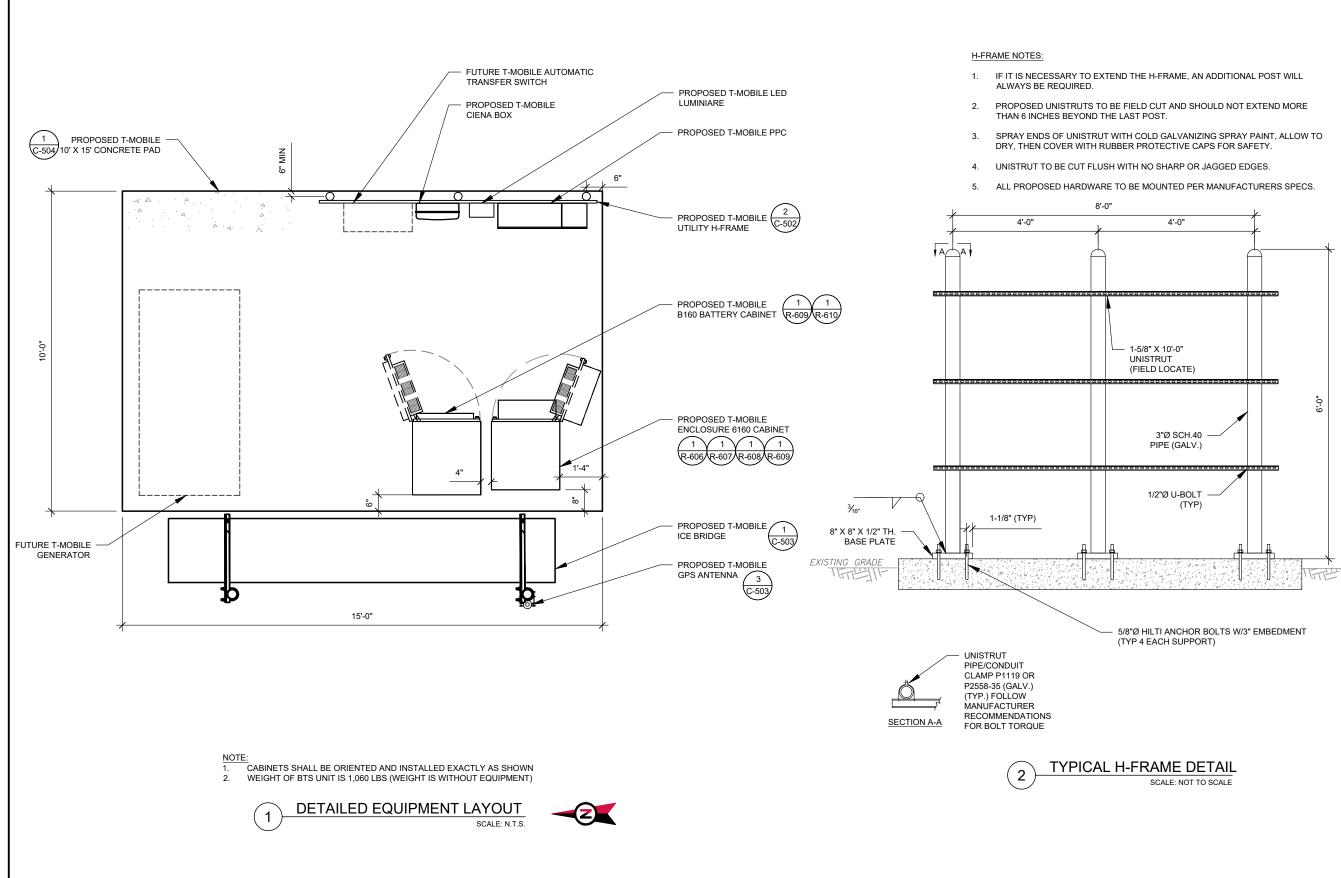


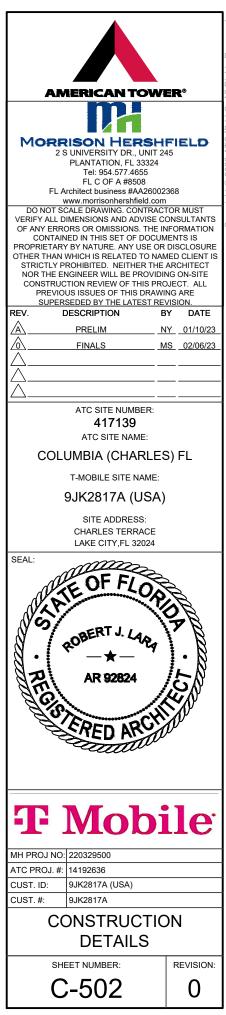


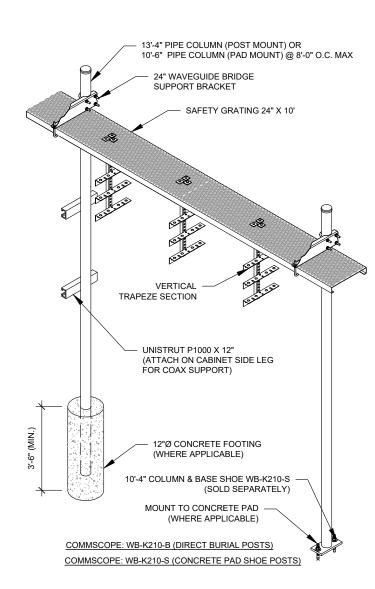
MOUNT ANALYSIS FOR THIS PROJECT IS BEING COMPLETED IN A SEPARATE PROJECT. CONSTRUCTION IS NOT TO PROCEED UNTIL A PASSING MOUNT ANALYSIS IS COMPLETE AND ANY REQUIRED MODIFICATIONS HAVE BEEN

INSTALLED.



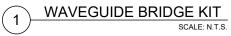


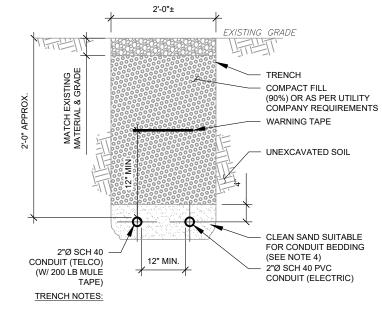




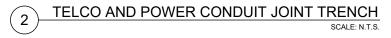
#### CONSTRUCTION NOTE:

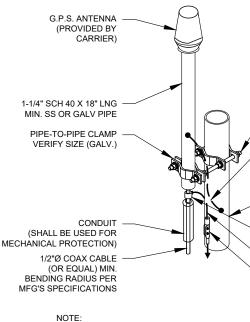
- INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST 1. APPURTENANCE.
- 2. INSTALL PER MANUFACTURES SPECIFICATION.





- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED 1. MATERIAL MAY BE USED FOR BACKFILL.
- 2. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
- IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL 3. HAND DIG U/G TRENCHING
- CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD. 4.



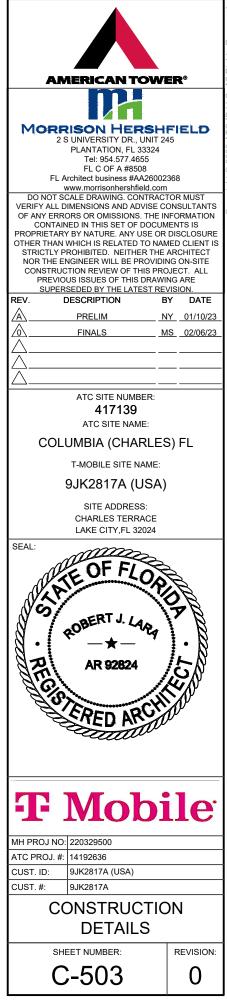


GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY. 2. CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.



1/2" X 8" THREADED ROD (GALV.) #2 AWG BARE TINNED SOLID COPPER WIRE CADWELD FROM GPS MOUNT PIPE TO COAX CABLE PIPE SUPPORT OR TOWER MEMBER ICE BRIDGE SUPPORT POST OR TOWER MEMBER INSULATED METALLIC BUSHING #6 AWG GROUNDING KIT CABLE (PROVIDED WITH KIT) 2 HOLE LUG SUITABLE FOR #2 AWG BCW

SCALE: N.T.S.

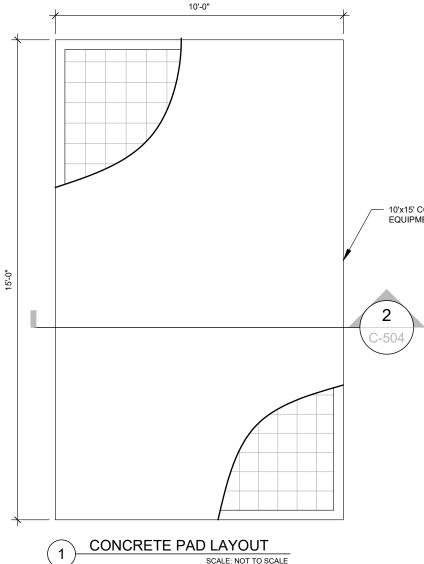


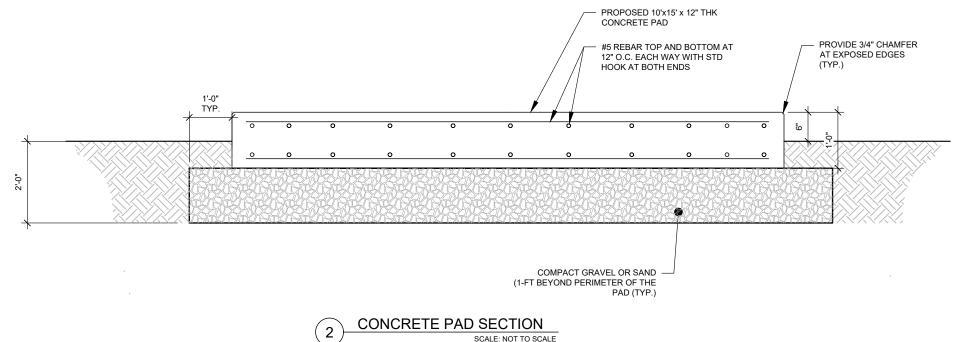
#### CONTRACTOR NOTES:

- ALL CONCRETE FOR SLAB FOUNDATION SHALL BE 3000 P.S.I. (MIN.) 1.
- IF BUILDER SET DATE WILL BE WITHIN 24 HRS OF SLAB POUR THEN SITE CONTRACTOR SHALL USE 5000 P.S.I. 2. CONCRETE (MIN.) TO OBTAIN MIN. 1800 P.S.I. CONCRETE WITHIN THE ALLOTED 48 HOURS. (NO EXCEPTIONS)
- ELECTRICAL CONTRACTOR SHALL COORDINATE STUB-UP LOCATIONS WITH PROPOSED EQUIPMENT. (FIELD 3. VERIFY AT STAGING YARD.)
- CONTRACTOR SHALL ANCHOR EQUIPMENT PER MANUFACTURES RECOMMENDATIONS. 4.
- ALL FOUNDATIONS SHALL BE POURED WITHIN A 4" OF LEVEL IN ALL DIRECTIONS AND SMOOTH FINISHED. 5.

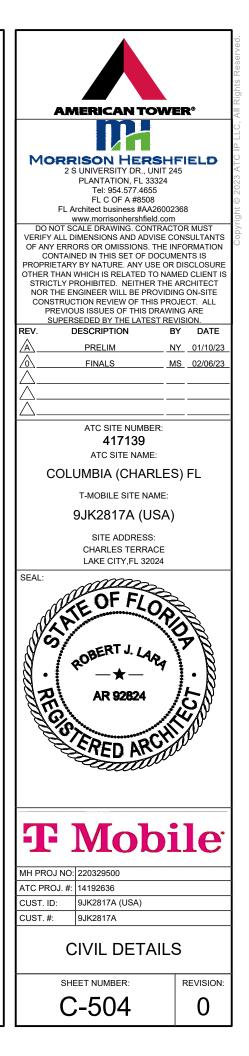
#### FOUNDATION NOTES:

- COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000-PSI AT 28-DAY CURE, AND SHALL MEET 1. SPECIFICATION FOR READY-MIXED CONCRETE (ASTM C94). CONCRETE SHALL BE PLACED AND CURED AS PER ACI-318 " BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- CONCRETE SLUMP SHALL RANGE BETWEEN 4 INCHES TO 8 INCHES. 2.
- ALL CONCRETE WORK SHALL CONFORM TO ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED 3. CONCRETE
- 4. THE SURFACE. OVER WHICH THE CONCRETE WILL BE POURED, SHALL BE CLEAN OF LOOSE MATERIAL AND LEVELED PRIOR TO CONCRETE PLACEMENT
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS 5. AND OTHER OCCURRENCES THAT MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- 6. MECHANICALLY VIBRATE CONCRETE, PARTICULARLY WHEN POURED IN DIFFERENT LIFTS, TO ENSURE CONSOLIDATION AND TO AVOID JOINTS
- ALL REINFORCING STEEL BARS SHALL BE DOMESTIC, NEW BILLET STEEL, ASTM A-615, GRADE 60. 7. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI 315-LATEST EDITION -"MANUAL OF STANDARD FOR DETAILING REINFORCED CONCRETE".
- ALL LOAD BEARING FOOTING SHALL BEAR ON TOP OF COMPACTED SOIL. 8.
- WELDING OF REINFORCING BARS AND DOWEL BARS IS PROHIBITED UNLESS OTHERWISE APPROVED BY 9. ENGINEER
- PRIOR TO THE EXCAVATION, CHECK AREA FOR LOCATION OF UNDERGROUND PIPES, CABLES, ETC. 10.









#### GROUNDING NOTES:

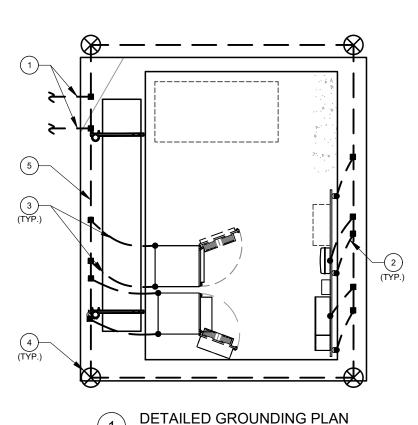
ALL EQUIPMENT ENCLOSURES, DEVICES AND CONDUITS SHALL BE GROUNDED TO CONFORM WITH THE LATEST REQUIREMENTS OF THE NEC BY THE INSTALLATION OF A SEPARATE, GREEN, INSULATED GROUND CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS. GROUND CONDUCTORS SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS. GROUND CONDUCTORS SHALL BE CONTINUOUS IN LENGTH AND SHALL BE BONDED TO EACH ENCLOSURE THEY PASS THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING CONDUCTOR.

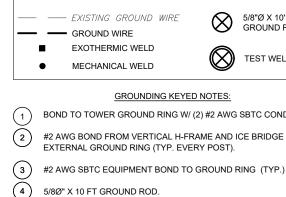
GROUNDING CONDUCTORS SHALL

- A. BE #2 AWG SOLID BARE TINNED COPPER (SBTC) FOR ALL GROUNDING SYSTEM WIRE UNLESS OTHERWISE NOTED, OR OTHERWISE REQUIRED BY CODE. B. BE MINIMUM 12" BEND RADIUS. KEEP NUMBER OF BENDS TO
- A MINIMUM. C.
- AVOID LONG BONDING CONNECTION RUNS. MAKE DIRECT AS POSSIBLE
- NOT HAVE ANY U-SHAPED RUNS. D.
- BE IN NON-METALLIC CONDUIT ONLY, IF IN CONDUIT. BE PLACED THROUGH NON-METALLIC SLEEVES IN FLOORS, WALLS, CEILINGS, ETC.
- G. PROTECTED IN NON-METALLIC CONDUIT WHERE EXPOSED ABOVE GRADE
- INSTALL ALL GROUNDING RINGS AND RADIALS WITH CONDUCTIVE CEMENT, SANKOSHA AS DISTRIBUTED BY ELECTRIC MOTION COMPANY, INC., WINSTED, CT 06098, OR AS SPECIFICALLY INDICATED. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- GROUND RINGS SHALL BE
  - A. MINIMUM 30" BELOW GRADE, OR BELOW FROST LINE WHICHEVER IS DEEPER
  - B. MINIMUM 2' FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING
  - SYSTEMS AND ALL CONDUCTIVE OBJECTS. C. WITH MINIMUM 12" BEND RADII.
  - D. WITH ALL CONNECTIONS IN CONTACT WITH EARTH, BONDED R١
  - EXOTHERMIC WELDING. E. BONDED TO A SINGLE POINT GROUND (SPG) WITH A SINGLE WIRE AS

INDICATED ON DRAWINGS.

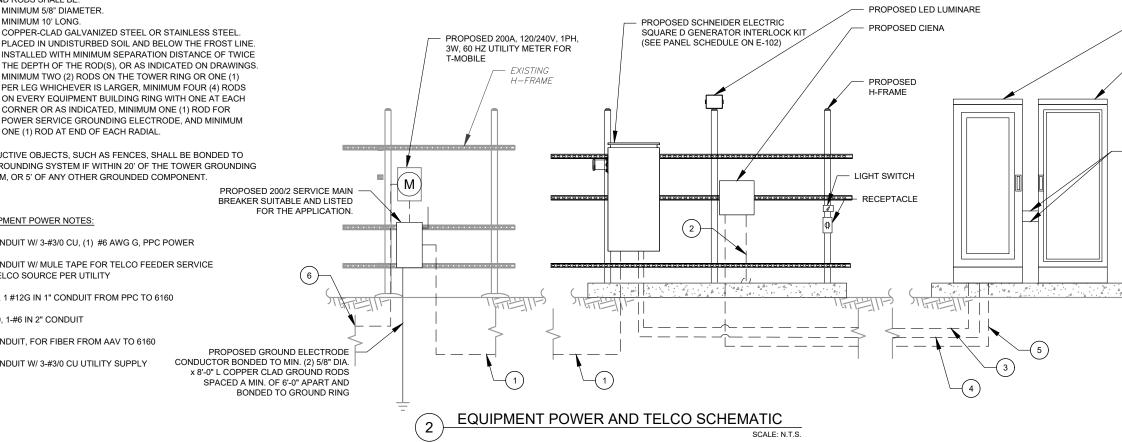
- GROUND RODS SHALL BE:
  - A. MINIMUM 5/8" DIAMETER.
  - B. MINIMUM 10' LONG.
  - COPPER-CLAD GALVANIZED STEEL OR STAINLESS STEEL C.
  - D. PLACED IN UNDISTURBED SOIL AND BELOW THE FROST LINE INSTALLED WITH MINIMUM SEPARATION DISTANCE OF TWICE
  - MINIMUM TWO (2) RODS ON THE TOWER RING OR ONE (1) PER LEG WHICHEVER IS LARGER, MINIMUM FOUR (4) RODS ON EVERY EQUIPMENT BUILDING RING WITH ONE AT EACH CORNER OR AS INDICATED, MINIMUM ONE (1) ROD FOR POWER SERVICE GROUNDING ELECTRODE, AND MINIMUM ONE (1) ROD AT END OF EACH RADIAL
- CONDUCTIVE OBJECTS, SUCH AS FENCES, SHALL BE BONDED TO THE GROUNDING SYSTEM IF WITHIN 20' OF THE TOWER GROUNDING SYSTEM, OR 5' OF ANY OTHER GROUNDED COMPONENT
- EQUIPMENT POWER NOTES:
- ( 1 ) 2" CONDUIT W/ 3-#3/0 CU, (1) #6 AWG G, PPC POWER
- 2 2" CONDUIT W/ MULE TAPE FOR TELCO FEEDER SERVICE TO TELCO SOURCE PER UTILITY
- (3) 2-#12, 1 #12G IN 1" CONDUIT FROM PPC TO 6160
- (4) 2-#3/0, 1-#6 IN 2" CONDUIT
- (5) 2" CONDUIT, FOR FIBER FROM AAV TO 6160
- (6) 2" CONDUIT W/ 3-#3/0 CU UTILITY SUPPLY



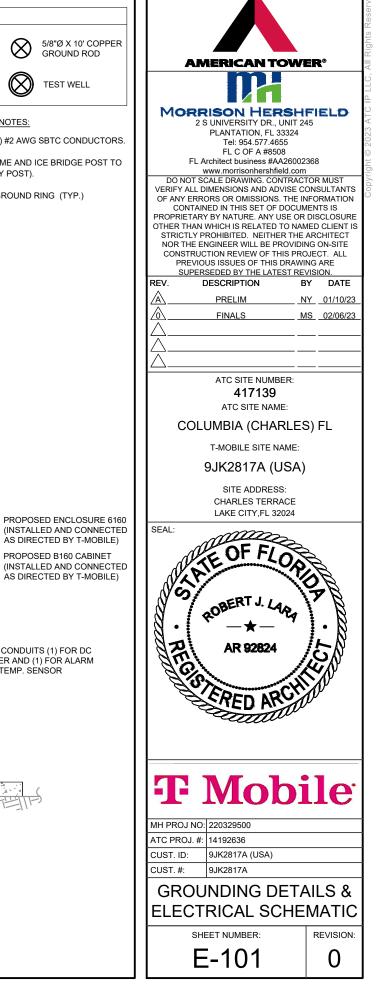


GROUNDING PLAN LEGEND

(5) #2 AWG SBTC GROUND RING



SCALE: N.T.S



 $\otimes$ 

GROUNDING KEYED NOTES:

BOND TO TOWER GROUND RING W/ (2) #2 AWG SBTC CONDUCTORS

#2 AWG BOND FROM VERTICAL H-FRAME AND ICE BRIDGE POST TO

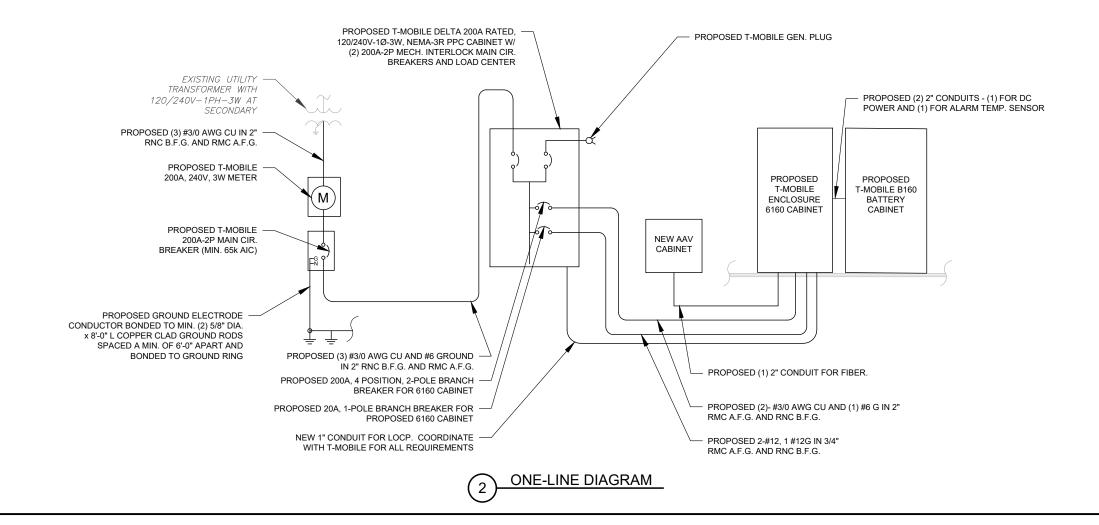
(INSTALLED AND CONNECTED AS DIRECTED BY T-MOBILE) PROPOSED B160 CABINET

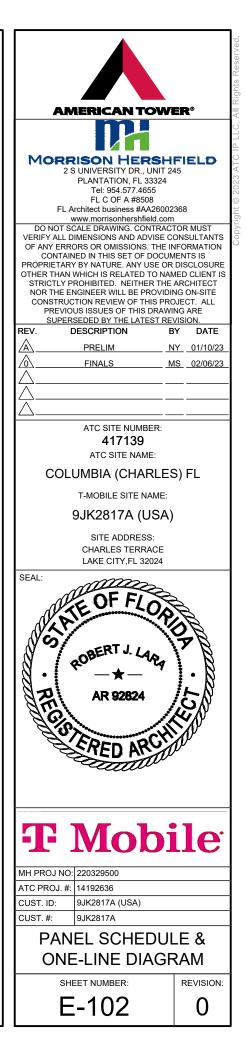
(INSTALLED AND CONNECTED AS DIRECTED BY T-MOBILE)

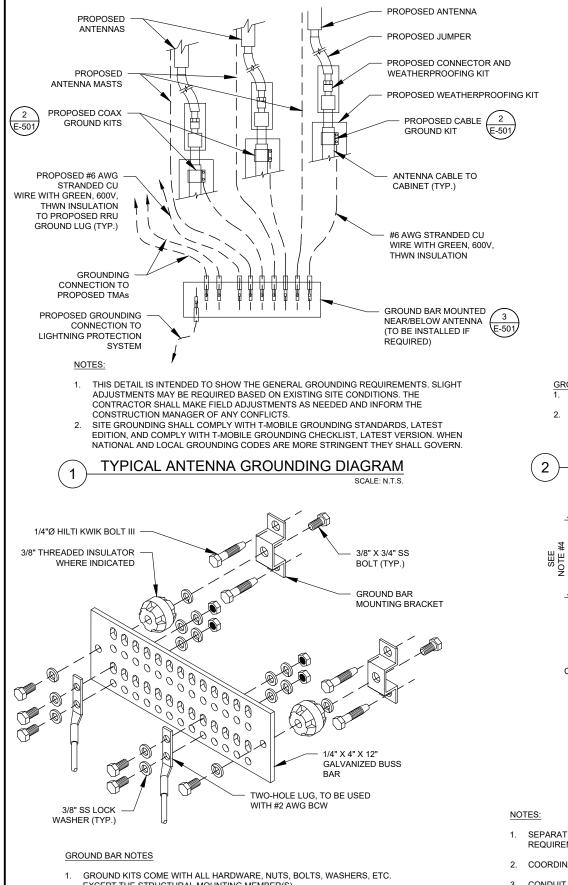
(2) 2" CONDUITS (1) FOR DC PÓWER AND (1) FÓR ALARM AND TEMP. SENSOR

	BUS kVA			ONE	0010			BUS	6		0010	0.10				BUS k\
А	В	LOAD	WIRE	GND	COND	AMPS		A		AMPS	COND	GND	WIRE	LOAD	А	
0.00		PROPOSED SURGE SUPPRESSOR	#6	#10	1"	60	1 -		- 2	20	3/4"	#12	#12	PROPOSED GFI RECEPTACLE	0.18	
	0.00						3 —		- 4	200	2"	#6	2-#3/0	NEW 6160 SSC **		7.
0.40		PROPOSED SERVICE LIGHT	#12	#12	3/4"	20	5 —		- 6						7.00	
	0.18	PROPOSED NEW GFI RECEPT. INTO 6160 **	#12	#12	3/4"	20	7 —	+	- 8							7.
-		SPACE	-	-	-	-	9 —		- 10						7.00	
	-	SPACE	-	-	-	-	11—	+	- 12	-	-	-	-	SPACE		-
-		SPACE	-	-	-	-	13—		- 14	-	-	-	-	SPACE	-	
	-	SPACE	-	-	-	-	15—	+	- 16	-	-	-	-	SPACE		-
-		SPACE	-	-	-	-	17—		- 18	-	-	-	-	SPACE	-	
	-	SPACE	-	-	-	-	19—	+	- 20	-	-	-	-	SPACE		-
-		SPACE	-	-	-	-	21-4	$ \rightarrow $	- 22	-	-	-	-	SPACE	-	
	-	SPACE	-	-	-	-	23—	+	- 24	-	-	-	-	SPACE		-
0.40	0.18							Ā	٩	В	Т	OTAL			14.18	14
		ONFIRM ALL REQUIREMENTS WITH MANUF						14	1.6	14.2		28.8	CONNEC	CTED LOAD (kVA)		

1) PANEL SCHEDULE



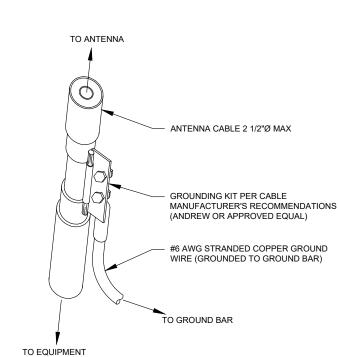




- EXCEPT THE STRUCTURAL MOUNTING MEMBER(S)
- 2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

4

MAIN GROUND BAR DETAIL SCALE: N.T.S



0000 Q ãooo 00000

3/8" X 1-1/4" SS BOLT

(EACH SIDE)

GROUND BAR NOTES:

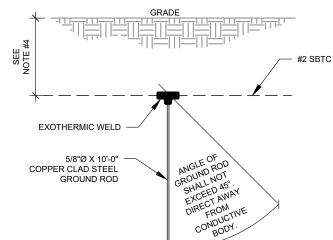
GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).

2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER

<u>GROUND KIT NOTES:</u> 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS

CABLE GROUND KIT CONNECTION DETAIL SCALE: N.T.S.



3

(THERMOWELD OR EQUIVALENT) PÀRALLEL, NO T-WELDS ALLOWED (NO SLAG OR DEFORMITIES ALLOWED)

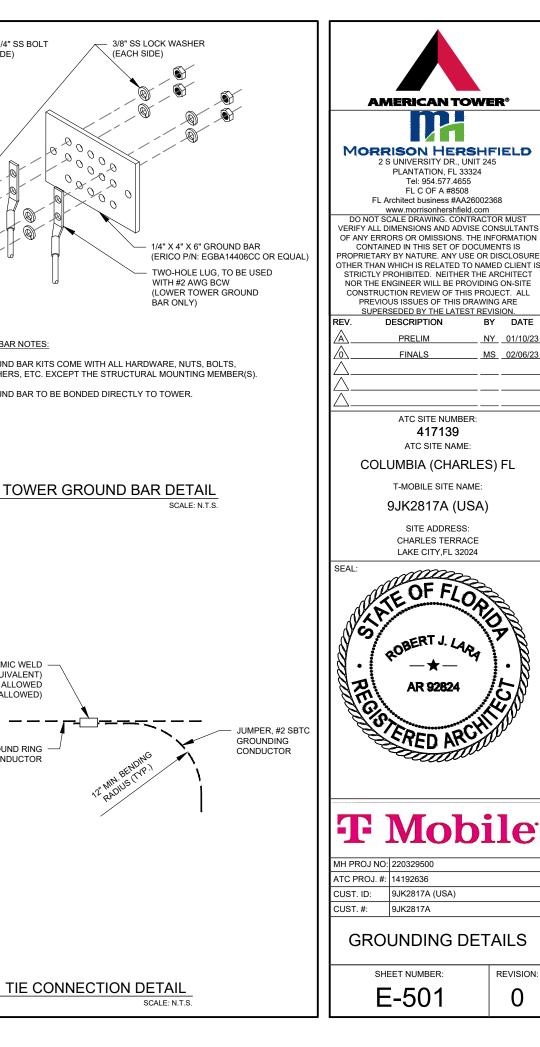
EXOTHERMIC WELD

EXTERIOR GROUND RING #2 SBTC GROUNDING CONDUCTOR

6

- SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS
- 2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
- CONDUIT TRENCHING DEPTHS AT 36" OR 6" BELOW FROST LINE, 3. WHICHEVER IS GREATER.
- ALL RING AND RADIAL DEPTHS AT 30" OR 6" BELOW FROST LINE, 4. WHICHEVER IS GREATER.

**GROUND ROD DETAIL** 5 SCALE: N.T.S.



REVISION 0

Print Name: Standard 45ec-67E50998E 5160 (no GSM) 4Sec-57E50998E_1XAIK+1CP			11/10/22	, 9:53 AM	I			9JK2817A_Coverage	Strategy_1	_2022-11	-10				
			4Sec-67				+10P					9JK281	17A_Cov	erage Strategy_	0
Site I: 9.4/2017. (U:A)   Site I: 9.4/2017. (U:A)   Project IV: Coverage Strates:   Approved. No deproved Site I:   Deproved. No deproved Site I: Site I:			1000 011		00 (no 00m)	1.10000.20002_14.44						PORs	: Coverage S		
<ul> <li>Buttis Rachfordingen Strategie</li> <li>Burger Jeger Gow Gapprovid</li> <li>Burger Jeger Gow</li></ul>								Section 1 - Site Informati	on						_
sector Court: 4     Antenna Court: 8     Coax Line Court: 0     MA Court: 0     RRU Court: 8       sector 2 - Existing Template (mages)       Coax Line Court: 0     PERSENTERS       Source 2 - Existing Template (mages)       Source 2 - Existing Template (mages) </th <th></th> <th></th> <th>Statu Versie Proje Appre Appre Last I</th> <th>s: Readyf on: 1 ct Type: ( oved: Not oved By: Modified:</th> <th>ForReview Coverage S approved Not approv 11/10/2022</th> <th>ed 2 9:52:39 AM</th> <th>Site Class Site Type: Plan Year Market: Vendor: Landlord:</th> <th>s: Self Support Tower Structure Non Building JACKSONVILLE FL Nokia</th> <th></th> <th>Long Addr City,</th> <th>itude: -8 ess: Cha State: Ch</th> <th>2.760058 rles Terraci arles Terra</th> <th></th> <th></th> <th></th>			Statu Versie Proje Appre Appre Last I	s: Readyf on: 1 ct Type: ( oved: Not oved By: Modified:	ForReview Coverage S approved Not approv 11/10/2022	ed 2 9:52:39 AM	Site Class Site Type: Plan Year Market: Vendor: Landlord:	s: Self Support Tower Structure Non Building JACKSONVILLE FL Nokia		Long Addr City,	itude: -8 ess: Cha State: Ch	2.760058 rles Terraci arles Terra			
			RAN T	emplate:	4Sec-67E5	5D998E 6160 (no GSM)		AL Templat	e: 4Sec-671	E5998E_1	AIR+10P				
<section-header><form></form></section-header>			Sector	Count: 4	1	Antenna Count	: 8	Coax Line Count: 0	TMA C	ount: 0		R	RU Count	: 8	
<image/>							Secti	on 2 - Existing Template	Images						
<form></form>							(1)-	RFDS HEADER		2					
<form>         Image: Provide and the set of the</form>				9	JK2817A_Coverag		$\bigcirc$		11/10/22, 9:53 AM			9	JK2817A_Covera	age Strategy_1_2022-11-10	
Solito 1- AL Explorementation from the sector of t		no GSM) ASec-67E	&L Template: 5998E_1xAIR+10P				Print Name: Standard		RAN Templat 4Sec-67E5D998E 616	e: D (no GSM) 4Sec-67	A&L Template: 'E5998E_1xAIR+1OP				9JK2817A_Coverage Strat Print Nam PORs: Coverage Strategy_Region
Deskup to the construct the				Sectio	n 6 - A&L Equipr					Sec	tor 2 (Propose	d) view from fr	ront (Note: the	images show view from be	
Note: The final state interment later into the information into the in				Exis Proposed Temp	ting Template: Custolate: 4Sec-67E5998	tom BE_1xAIR+1OP			Coverage Type			,			
And the construct of the		Sect	or 1 (Propose	d) view from fr	ont (Note: the in	mages show view from behind)			Antenna			1			2
International definition of the second	overage Type	A - Outdoor Macro	)		NI	A			Antenna Model	Commscope - FF	VV-65C-R3-V1 (Oc	to)		(AIR 6419 B41 (Active Antenna - M	assive MIMO)
Mathematical constraint of the second seco				1		2			Azimuth	(130)				(130)	
m       m		Commscope - FFV	/V-65C-R3-V1 (Oc	to)	- 4		MO)		M. Tilt	0				0	
initial isite $\overline{y}$ </td <td>simuth</td> <td>50</td> <td></td> <td></td> <td></td> <td>50</td> <td></td> <td></td> <td>Height</td> <td>240</td> <td></td> <td></td> <td></td> <td>(240)</td> <td></td>	simuth	50				50			Height	240				(240)	
P1         P2         P3         P4         P5         P6           clive         1700 (600)         1700 (600)         1200 (1900)         1200 (1		0				0			Ports	P1	P2	P3	P4	P5	P6
No.0         No.0 <th< td=""><td>orts</td><td></td><td>P2</td><td>P3</td><td></td><td></td><td>P6</td><td></td><td>Active Tech</td><td></td><td></td><td></td><td></td><td>(N2500)</td><td>(N2500)</td></th<>	orts		P2	P3			P6		Active Tech					(N2500)	(N2500)
Mark Tech       Image: Second Tech	The second s					(N2500)	000								
existing term       Image: second		N600	N600	N1900	N1900										
Lenom. Tech       Image: Second															
E. Tit       I.e.										Case has	Carebra	Carrobar	Can be		
Image: State of the state										(x2)	(x2)	(x2)	(x2)		
MAs       Image: Constraint of the constrain	ables														
Combiners     C <thc< th="">     C     C     C     &lt;</thc<>	MAs								Diplexer / Combiners						
IRadio 4480 IArlenna)     IRadio 4480 IB71-B85 (AL IArlenna)     IRadio 4480 IB71-B85 (AL I	ombiners								Radio	B71+B85 (At	Radio 4480	B25+B66 (At	Radio 4460		
ector Equipment     Image: Control of Co		B71+B85 (At Antenna)	Radio 4480 B71+B85 (At	B25+B66 (At Antenna)	Radio 4460 B25+B66 (At				Sector Equipment		(Antenna)		I Antenna)		
Scope of Work:	ector Equipment								Unconnected Equi	pment:					
	nconnected Equipn	nent:		-	·				Scope of Work:						
	cope of Work:														
							]								
*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.	N darahari bara bara bara		and a second second	an alasan di sa Ta	t beside - the first	developments in the process of the second			*A dashed border in	idicates shared coni	nected equipment. A	ny shared equipmer	nt, besides the first, i	is denoted with the SHARED keyword	





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ST OF CUSTOMER WITHOUT EDIT.	

SHEET NUMBER:	
R-601	

**REVISION:** 

	1	1/1	0/22.	9:53	AM
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9JK2817A\_Coverage Strategy\_1\_2022-11-10

A&L Template: RAN Template: 4Sec-67E5D998E 6160 (no GSM) 4Sec-67E5998E\_1xAIR+10P 9JK2817A\_Coverage Strategy\_1

Print Name: Standard PORs: Coverage Strategy\_Regional Coverage

A - Outdoor Macro

330

0

240

P1

(L700) (L600)

Coax Jumper (x2)

Radio 4480

B71+B85 (At Antenna)

N600

Commscope - FFVV-65C-R3-V1 (Octo)

P2

(L700) (L600)

Coax Jumper (x2)

Radio 4480 B71+B85 (At

(Antenna)

N600

P3

(L2100) (L1900)

Coax Jumper (x2)

Radio 4460

B25+B66 (At Antenna)

\*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.

N1900

11/10/22, 9:53 AM

Coverage Type

Antenna Model

Antenna

Azimuth

M. Tilt

Height

Ports

Active Tech

Dark Tech **Restricted Tech** Decomm. Tech E. Tilt Cables

TMAs Diplexer / Combiners Radio

Sector Equipment Unconnected Equipment:

Scope of Work:

9JK2817A\_Coverage Strategy\_1\_2022-11-10

Sector 4 (Proposed) view from front (Note: the images show view from behind)

P4

(L2100) (L1900)

N1900

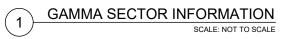
Coax Jumper (x2)

Radio 4460 B25+B66 (At Antenna)

Template:         A&L Template:           98E 6160 (no GSM)         4Sec-67E5998E_1xAIR+10
--

Coverage Type	A - Outdoor Macro	0					
Antenna	1					2	
Antenna Model	Commscope - FF	VV-65C-R3-V1 (Oct	0))		(AIR 6419 B41 (Active Antenna - Massive MIMO))		
Azimuth	220				220		
M. Tilt	0				0		
Height	240				240		
Ports	P1	P2	P3	P4	P5	P6	
Active Tech	L700 L600 N600	L700 L600 (N600	L2100 L1900 N1900	L2100 (L1900) (N1900)	N2500	N2500)	
Dark Tech							
Restricted Tech							
Decomm. Tech							
E. Tilt							
Cables	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)			
TMAs		-					
Diplexer / Combiners							
Radio	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	Radio 4460 B25+B66 (At Antenna)			
Sector Equipment					i		
Unconnected Equip	oment:			1	1	I	

\*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.



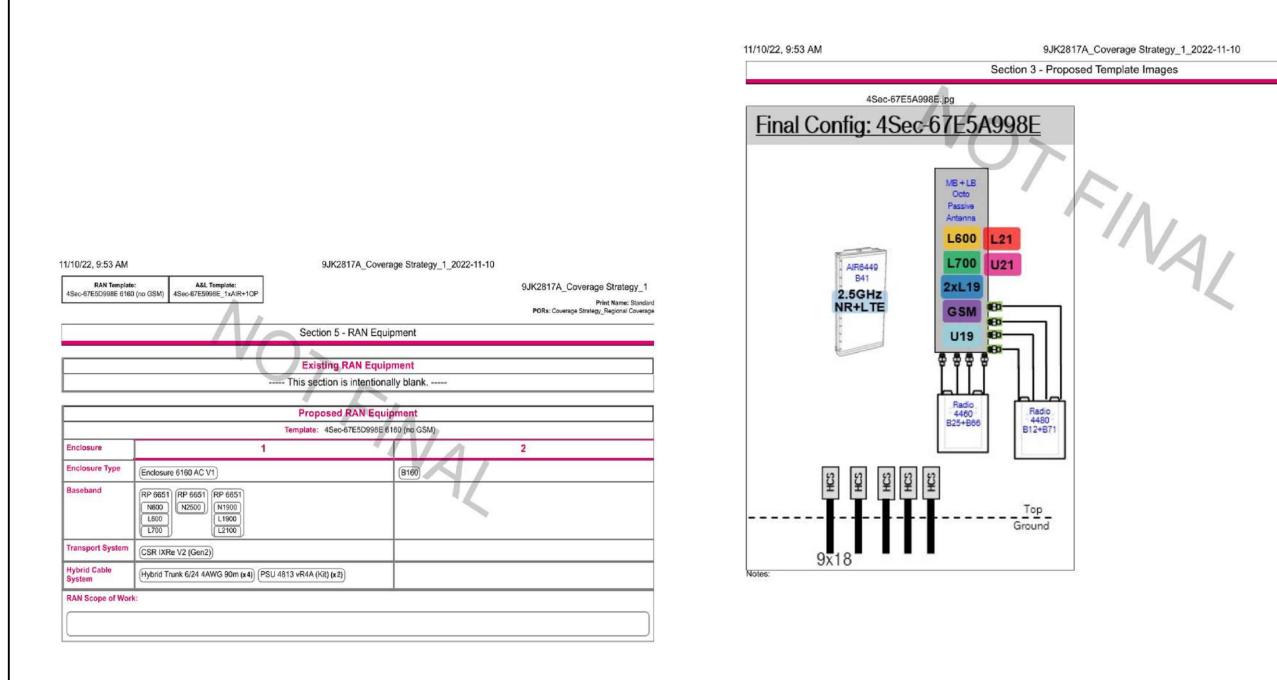


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ST OF CUSTOMER WITHOUT EDIT.



**REVISION:** 

	9JK2817A_Coverage Strategy_ Print Name: Star PORs: Coverage Strategy_Regional Cove	Idan
nages show view from	n behind)	
	2	
AIR 6419 B41 (Active Antenn	na - Massive MIMO)	
330		
0		
240		
P5	P6	
N2500	N2500	
		_
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enoted with the SHARED key	auard	

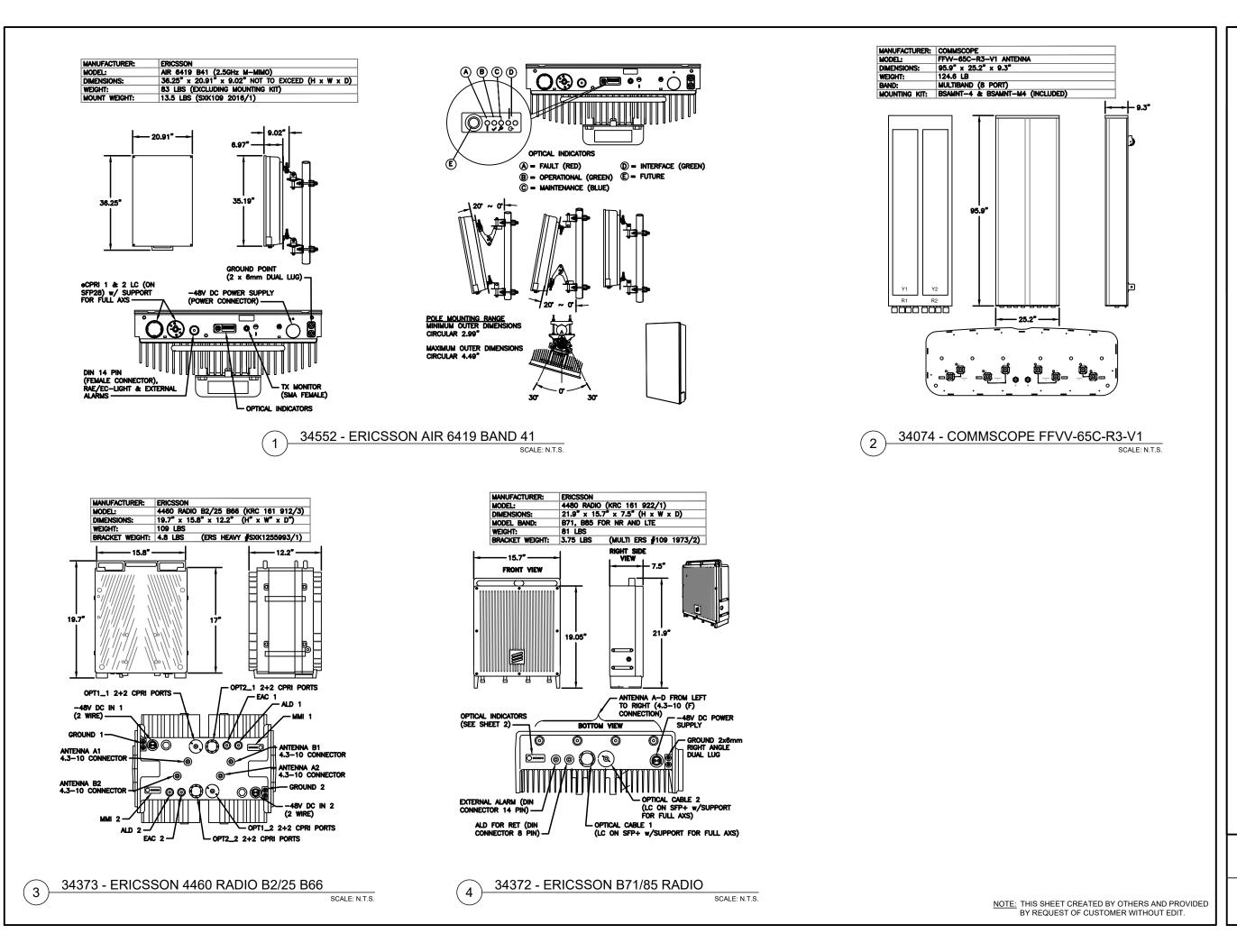








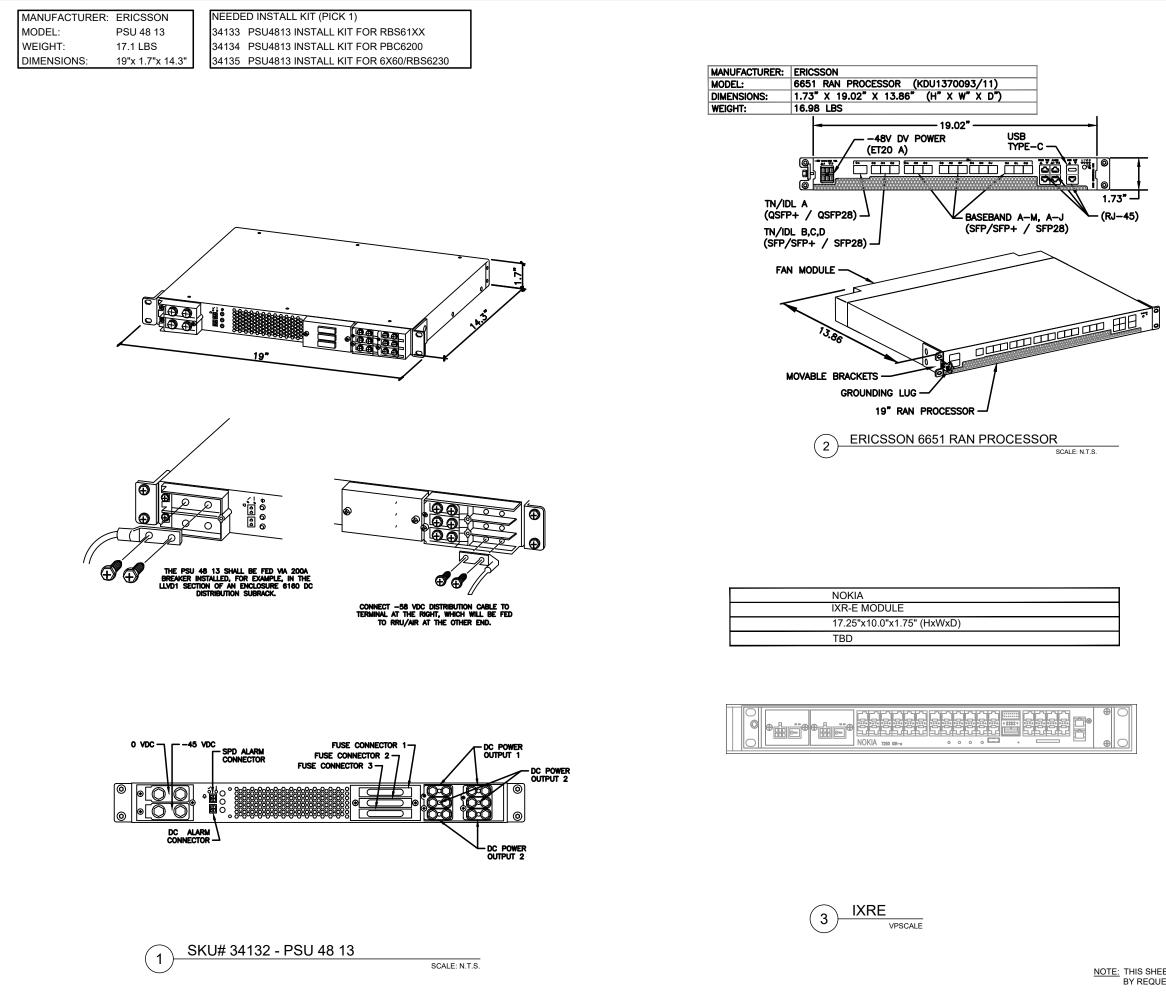
**REVISION:** 



SUPPLEMENTAL SHEET NUMBER:

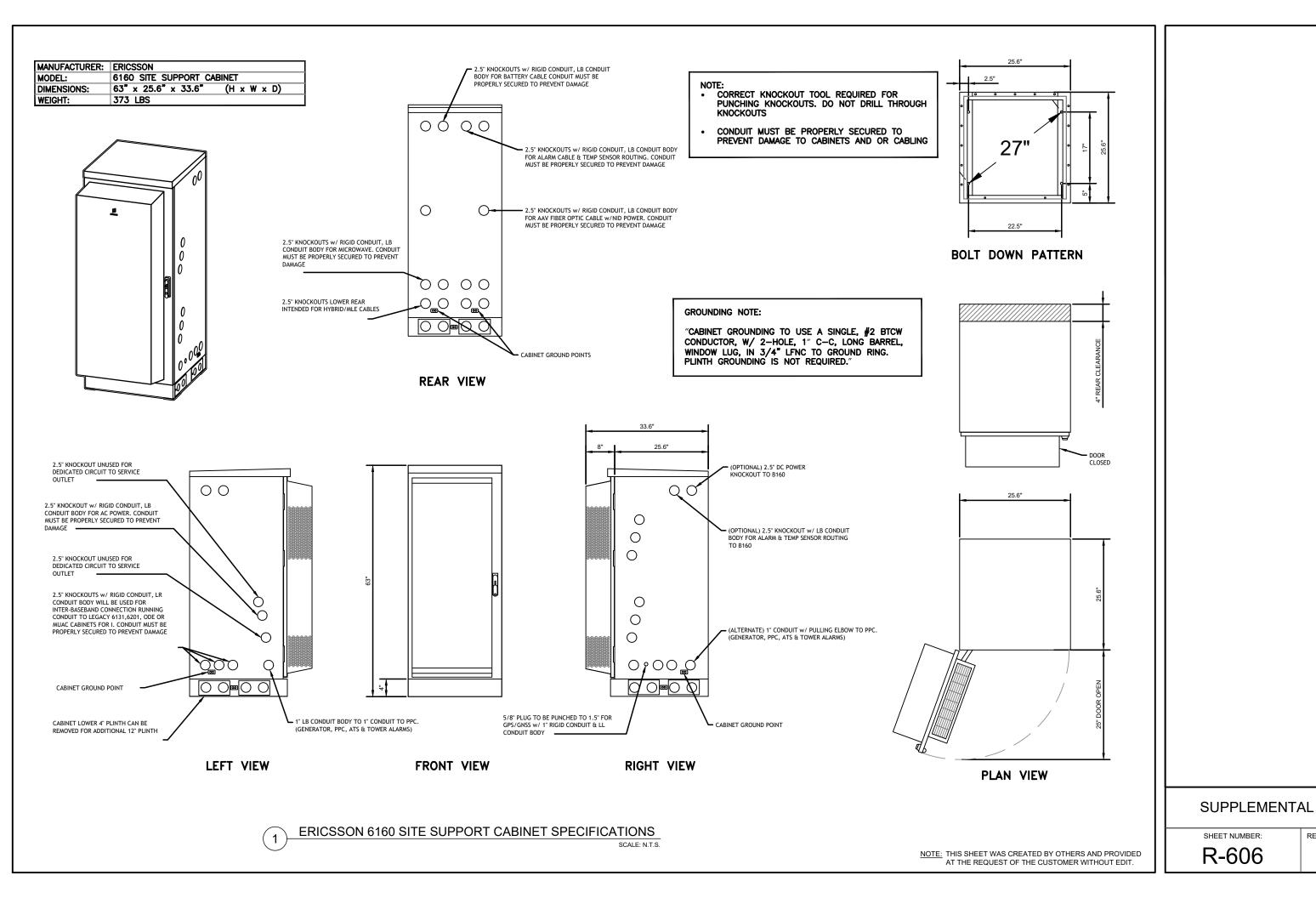
REVISION

R-604





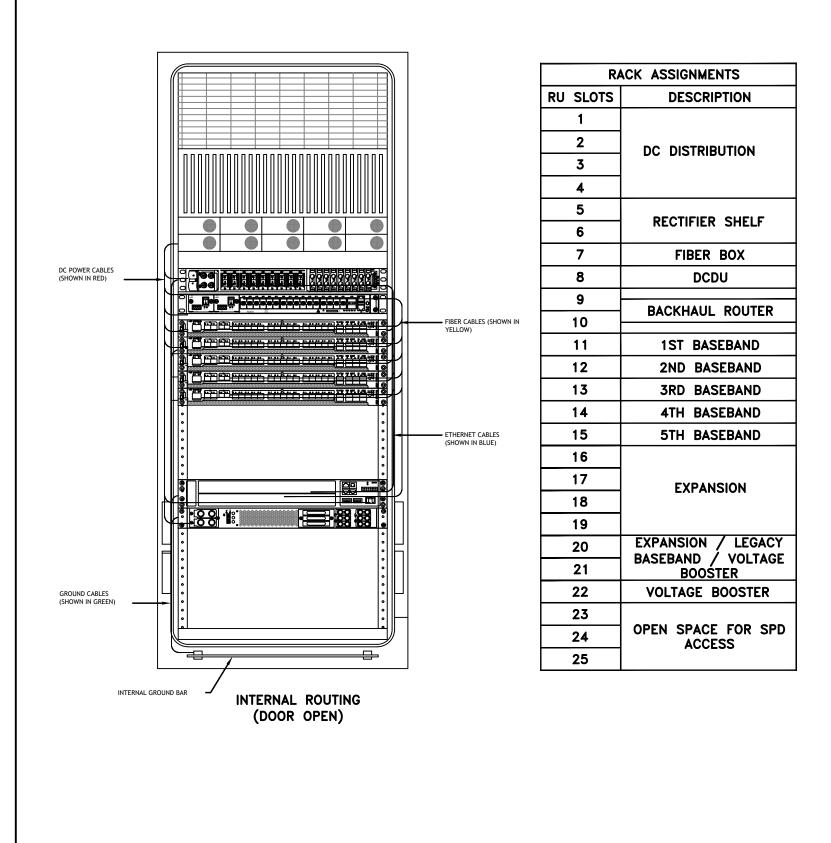
**REVISION:** 

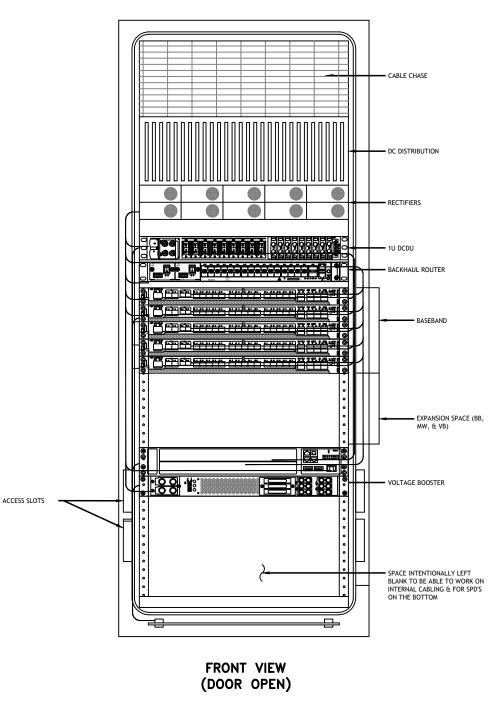




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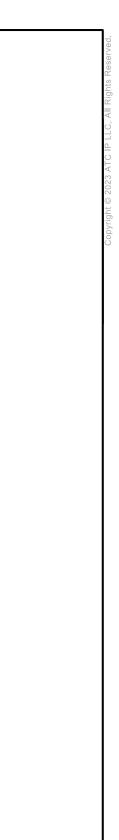
REVISION:





#### **ERICSSON 6160 CABINET DETAILS** 1

SCALE: N.T.S.

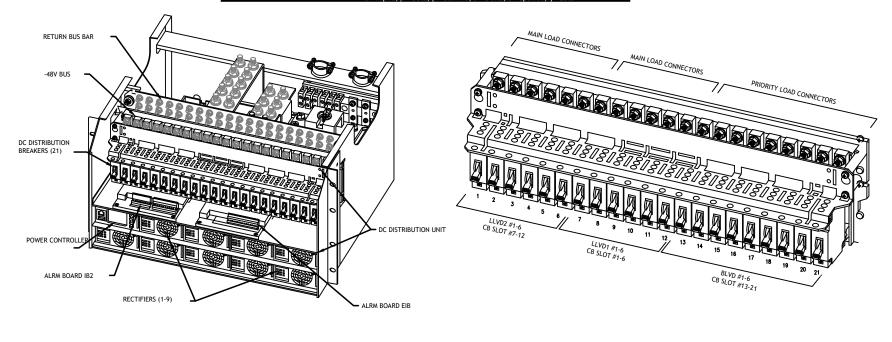


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### **SUPPLEMENTAL**

SHEET NUMBER: R-607 REVISION:

			FOR SPECIFIC DE	ERENCE ONLY, CHECK TAIL IN T-MOBILE INSTALLATION GUIDES				
			Breaker A	llocation for E6160				
CB SLOT	Ckt	#	w/ DCDU Prior to availability of the 4460 and 4480	w/ DCDU 4 and 6 Sector designs				
1		1	Router	PS-2*/Future	Radio 4460 B25/66 ζ-1			
2		2	l l	Future	Radio 4460 B25/66 ζ-2			
3	LVD1 47.0V	3	PSU 4813 feeding B25	PSU 4813 feeding B41-δ B71/12-δ				
4	47.07 4				(Air 6449s and Radio 4480s			
5		5	PSL	4495)				
6		6		U 4813 feeding B41 α, β and γ (Air 6449s)				
7 8		1 2	PSU 4813 feeding B71/12 α,βand γ (Radio 4449s)	PSU 4813 feeding B71/12 o	ι,βandγ(Radio 4480s)			
9	LVD2	3		l Future	Radio 4460 B25/66 δ-1			
10	45.1V	4	ſ	uture	Radio 4460 B25/66 δ-2			
11		5	I	Future				
12		6	ſ	Future	Radio 4460 B25/66 ε-1 Radio 4460 B25/66 ε-2			
13		1		Router PS-1				
14		2	Radio 4415 B25/66 α	Radio 4460 B25/66 α-1 Radio 4460 B25/66 α-2				
15		3	Radio 4415 B25/66β					
16	DLV (D	4	Radio 4415 B25/66 γ	Radio 4460 B	25/66 β-1			
17	BLVD 43.2V	5	PSU 4813 feeding B2/25	25/66 β-2				
18		6	α,βandγ(Radio 4424s)	Radio 4460 E	25/66 γ-1			
19		7	Future	25/66 γ-2				
20		8		DCDU				
21		9		AAV				
			α = Alpha, β	Sector Identification = Beta, $\gamma$ = Gamma, $\delta$ = Delta, $\epsilon$ = E	osilon, ζ = Zeta			



POWER SUBRACK

### DC DISTRIBUTION

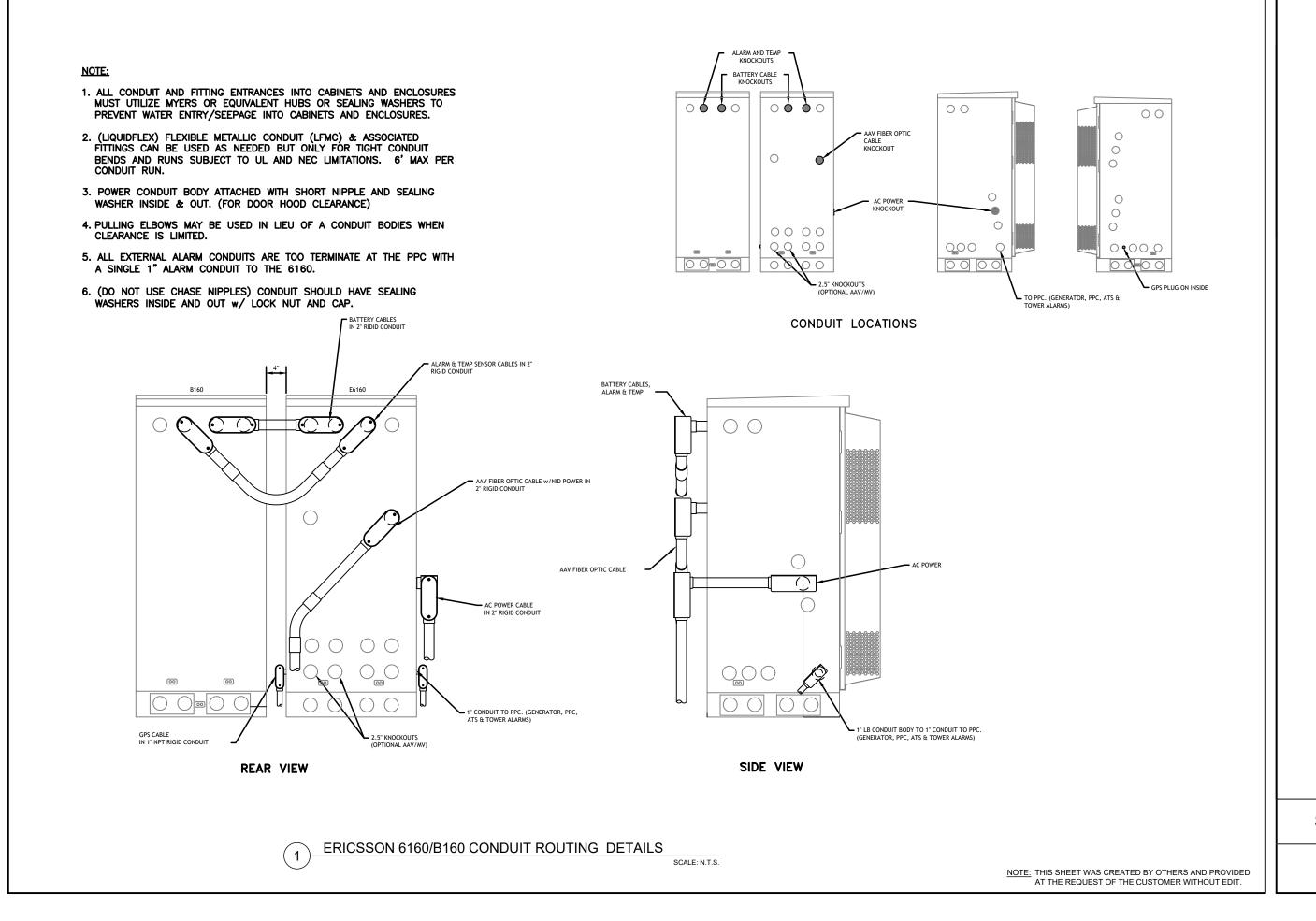
ERICSSON 6160 ELECTRICAL DETAILS 1

SCALE: N.T.S.



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**REVISION:** 

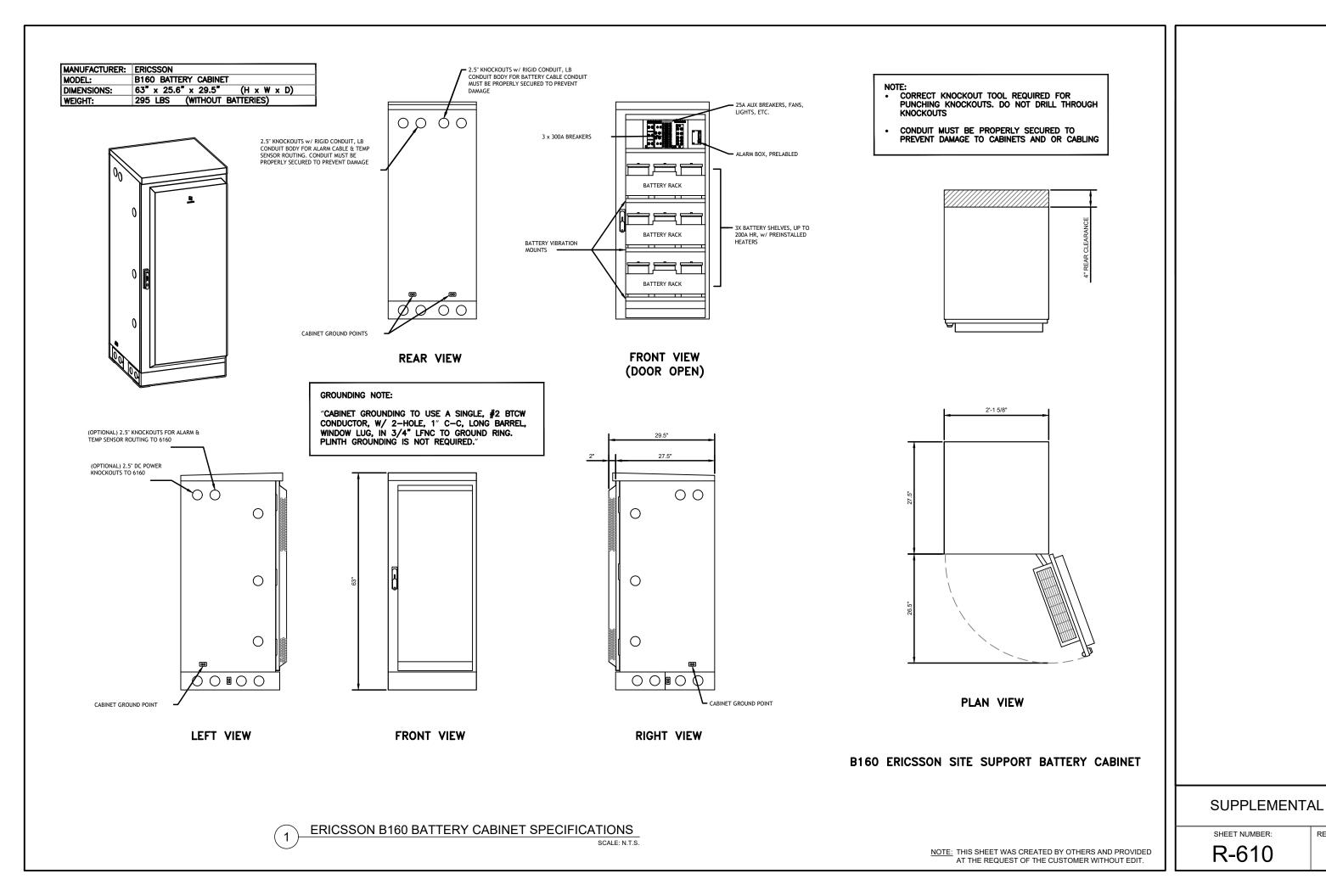




# **SUPPLEMENTAL**



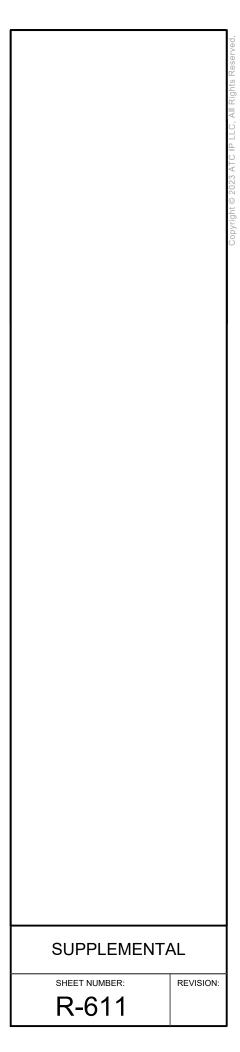
**REVISION:** 

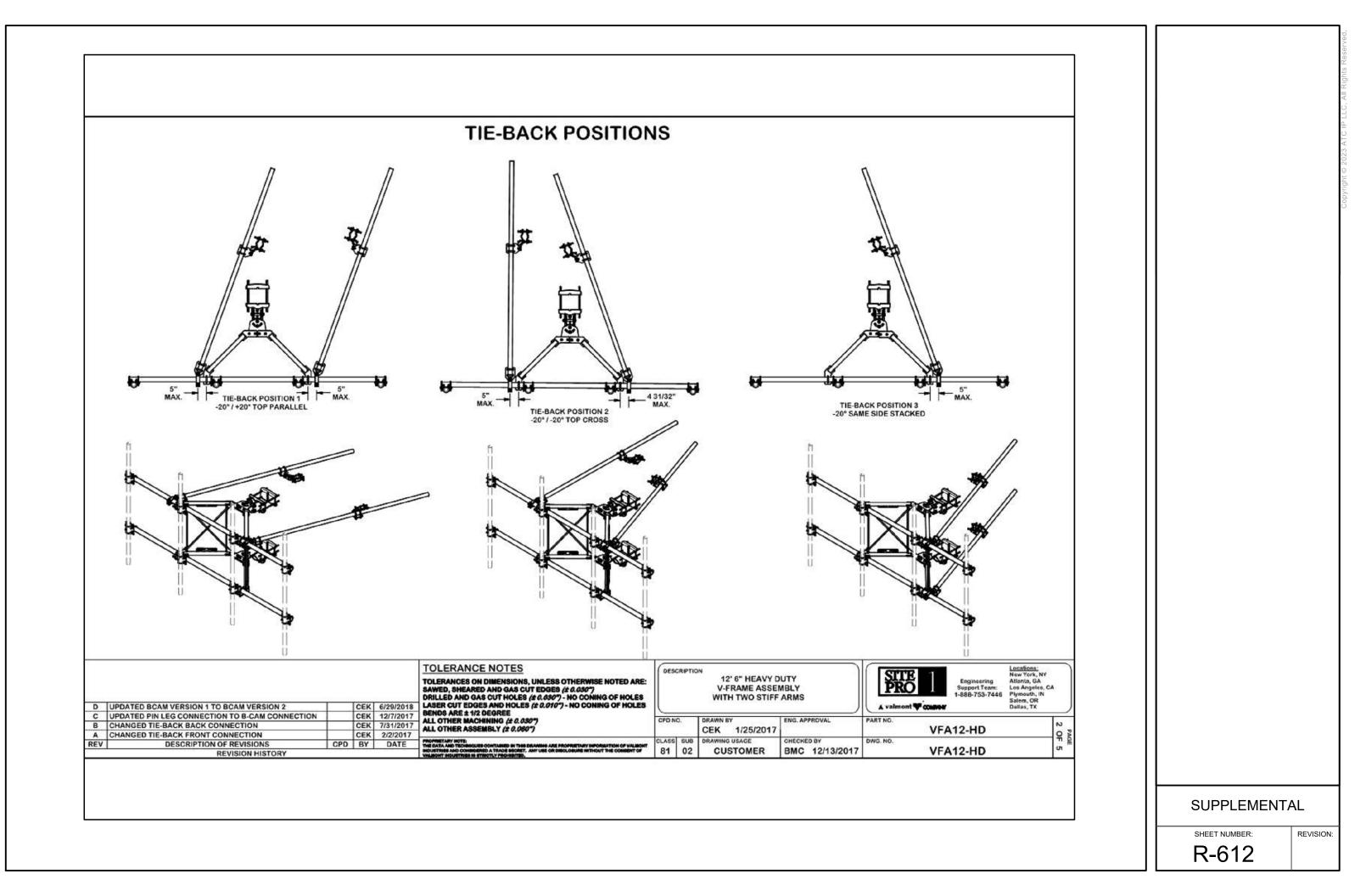


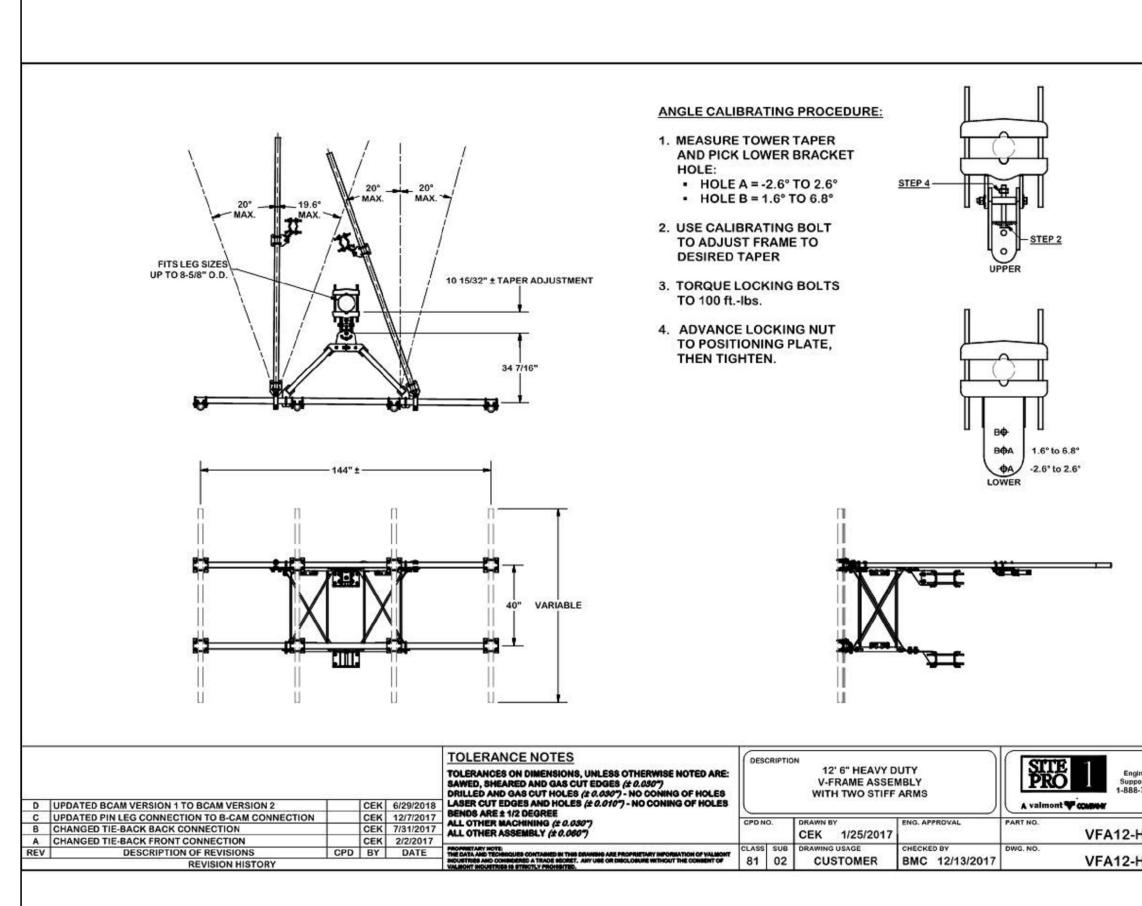
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REVISION:

	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	PART NO. X-VFAW HDCAMTBW X-MHTPHD X-VFAPL4 X-LCBP4 (-HDCAMSS X-SPTB (-HDCAMSP X-TBCA SCX2 MCP DCP P2126 P30150 A34212 G34FW G34LW G34LW G34LW G34LW G34LW G34LW G34LW G34R-12 G58R-13 G58R-12 G58R-12 G58R-13 G58R-12 G58R-14 G588-114 G5802 A582114 G581W G58NUT X-UB1300 X-UB1212 G12FW G12LW G12LW G12NUT	PARTS LIST PART DESCRIPTION SUPPORT ARM CLAMP WELDMENT FOR BCAM-HD MULTI-HOLE TAPER PLATE WELDMENT VFA-HD PIVOT PLATE BENT BACKING PLATE ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD SLIDING PIPE TIE BACK PLATE POSITIONING PLATE WELDMENT FOR BCAM-HD TIE BACK CLIP ANGLE CROSSOVER PLATE CLAMP HALF 1/2" THICK, 11-5/8" LONG 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 3/4" x 2-1/2" UNC HEX BOLT (A325) 3/4" HDG UCKWASHER 3/4" HDG UCKWASHER 3/4" HDG HEAVY 2H HEX NUT 5/8" x 18" THREADED ROD (HDG.) 5/8" x 12" THREADED ROD (HDG.) 5/8" x 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 5/8" X 2" HDG HEX BOLT GRS FULL THREAD 5/8" x 2" HDG HEX BOLT GRS 5 5/8" x 2" HDG HEX BOLT GRS 5 5/8" x 2" HDG HEX BOLT GRS 5/8" Y 2" HDG HEX BOLT GRS 5/8" HDG HEAVY 2H HEX NUT 1/2" HDG HEAVY 2H HEX NUT	LENGTH	UNIT WT. 71.41 33.86 36.24 15.88 19.00 16.39 5.87 2.58 2.01 4.80 3.59 2.36 40.75 76.94 0.48 0.06 0.04 0.21 0.40 1.05 0.70 1.15 1.00 0.70 1.15 1.00 0.70 0.62 0.44 0.27 0.31 0.07 0.03 0.03 0.13 0.74 0.60 0.03 0.01 0.07 TOTAL WT. #	NET WT. 142.81 33.86 36.24 31.77 38.01 16.39 2.58 8.02 38.37 14.37 18.90 81.50 153.87 1.92 0.24 0.17 0.85 3.19 4.18 2.79 4.60 8.00 1.41 0.62 3.55 1.08 2.50 1.76 1.72 9.22 23.64 9.56 2.18 0.89 4.58 738.06
D       UPDATED BCAM VERSION 1 TO BCAM VERSION 2       CEK       6/29/2018         C       UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION       CEK       12/7/2017         B       CHANGED TIE-BACK BACK CONNECTION       CEK       7/31/2017         A       CHANGED TIE-BACK FRONT CONNECTION       CEK       2/2/2017         REV       DESCRIPTION OF REVISIONS       CPD       BY       DATE         REVISION HISTORY	TOLERANCE NOTES TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030") DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030") ALL OTHER MACHINING (± 0.030") PROVMETARY NOTE: INCLUSION DIMENSION AT TAXOS BECKT. ANY USE OR DISCLOSURE WITHOUT THE COMBUT OF WALKOWT HOUSETNES IN STRICTLY PROVINTION.		12' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS DRAWIN BY CEK 1/25/2017 DRAWING USAGE CUSTOMER BMC 12/13/2017 CUSTOMER	Sup 1-88	Igineering Attan port Team: Los A 18-753-7446 Plym Saley Della	Mions: York, NY hta, GA Angeles, CA houth, IN m, OR as, TX







Locations: New York, NY Atlanta, GA oport Team: Los Angeles, CJ 38-753-7446 Plymouth, IN Salem, OR Dallas, TX	11/19-			
-HD -HD	PAGE 3 OF 5			
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			т NUMBER: •613	REVISION:
			UID	

