



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



LOCATION MAP

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

COMPLIANCE CODE PROJECT S		SUMMARY	PROJECT DESCRIPTION	SHEET INDEX						
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED	SITE ADI	DRESS:		SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:		
IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL	CHARLES TERRACE		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			G-002	GENERAL NOTES	0	02/06/23	MS		
THESE CODES.	COUNTY: C	OLUMBIA	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 C	OORDINATES:	INSIDE A 10' X15' GROUND SPACE WITHIN THE EXISTING	C-201	TOWER ELEVATION	0	02/06/23	MS		
ANSI/TIA-222-H TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)	LATITUDE: 3		COMPOUND, AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING TOWER.	C-401	ANTENNA INFORMATION & SCHEDULE	0	02/06/23	MS		
4. 2017 NATIONAL ELECTRICAL CODE	LONGITUDE: -			C-501	CONSTRUCTION DETAILS	0	02/06/23	MS		
5. BASIC WIND SPEED: 118 MPH Vult (3-SECOND GUST) EXPOSURE CATEGORY: C	GROUND ELEVAT	TION: 104' AMSL		C-502	CONSTRUCTION DETAILS	DESCRIPTION: REV: DATE: TITLE SHEET 0 0 2/06/23 GENERAL NOTES 0 0 2/06/23 DETAILED COMPOUND PLAN 0 0 2/06/23 TOWER ELEVATION 0 0 2/06/23 ANTENNA INFORMATION & SCHEDULE 0 0 2/06/23 CONSTRUCTION DETAILS 0 0 2/06/23 GROUNDING DETAILS & ELECTRICAL SCHEMATIC 0 0 2/06/23 PANEL SCHEDULE & ONE-LINE DIAGRAM 0 0 02/06/23				
RISK CATEGORY: II	ZONING INFO	ORMATION:		C-503	CONSTRUCTION DETAILS	0	02/06/23	MS		
CITY/COUNTY ORDINANCES	JURISDICTION: COLU	<u></u>		C-504	CONSTRUCTION DETAILS	0	02/06/23	MS		
	APN: 304S1	,		E-101	GROUNDING DETAILS & ELECTRICAL SCHEMATIC	TITLE SHEET 0 0 02/06/23 GENERAL NOTES 0 0 02/06/23 DETAILED COMPOUND PLAN 0 0 02/06/23 TOWER ELEVATION 0 0 02/06/23 ANTENNA INFORMATION & SCHEDULE 0 02/06/23 CONSTRUCTION DETAILS 0 0 02/06/23 ROUNDING DETAILS & ELECTRICAL SCHEMATIC 0 02/06/23 PANEL SCHEDULE & ONE-LINE DIAGRAM 0 02/06/23 GROUNDING DETAILS 0 0 02/06/23 SUPPLEMENTAL 0 02/06/23				
	ZONING CO	ODE: N/A	PROJECT NOTES	E-102	PANEL SCHEDULE & ONE-LINE DIAGRAM	DESCRIPTION: REV: DATE: TITLE SHEET 0 022/06/23 GENERAL NOTES 0 022/06/23 TAILED COMPOUND PLAN 0 022/06/23 TOWER ELEVATION 0 022/06/23 IA INFORMATION & SCHEDULE 0 022/06/23 DONSTRUCTION DETAILS 0 022/06/23 DETAILS & ELECTRICAL SCHEMATIC 0 022/06/23 CHEDULE & ONE-LINE DIAGRAM 0 02/06/23 GROUNDING DETAILS 0 02/06/23 SUPPLEMENTAL SUPPLEMENTAL SUPPLEMENTAL SUPPLEMENTAL SUPPLEMENTAL				
	PROJEC	T TEAM	THE FACILITY IS UNMANNED.	E-501	E-501 GROUNDING DETAILS		02/06/23	MS		
-	TROOLO	I I LAW	A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.	R-601 SUPPLEMENTAL						
UTILITY COMPANIES	TOWER OWNER:	APPLICANT:	THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.	R-602	R-602 SUPPLEMENTAL					
	AMERICAN TOWER	T-MOBILE	4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL	R-603	SUPPLEMENTAL					
	10 PRESIDENTIAL WAY WOBURN. MA 01801	5901 BENJAMIN CENTER DRIVE. SUITE 110 A-B	IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	R-604	-604 SUPPLEMENTAL					
		TAMPA, FL 33634	6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN	PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN BIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED IEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN R-605 SUPPLEMENTAL						
POWER COMPANY: N/A PHONE: N/A			REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN		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		• • • • • • • • • • • • • • • • • • • •	R-609	SUPPLEMENTAL					
00000000000000000000000000000000000000	(954) 577-4668		PROJECT LOCATION DIRECTIONS	R-610	SUPPLEMENTAL					
Singune	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	ne811.com two full US 90.6 MILES TURN LEFT ONTO SW CTY RD 252B2.2 MILES TURN	R-613	SUPPLEMENTAL							
business days before digging to have buried facilities located and marked.	1119 SW CYPRESS LAKE DR LAKE CITY.FL 32024		CYPRESS LAKE RD1 MILE TURN RIGHT ONTO SW CHARLES TER.4	CTPRESS EARLE ROT WILL TORIN CHARLES TER.4						
check positive response codes before you dig!	LANE UIT, FL 32024		MILES ACCESS ROAD ON RIGHT	R-615	SUPPLEMENTAL					
							·			



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9JK2817A (USA)

SITE ADDRESS: CHARLES TERRACE LAKE CITY.FL 32024

T Mobile

MH PROJ NO:	220329500
ATC PROJ. #:	14192636
CUST. ID:	9JK2817A (USA)
CUST. #:	9JK2817A

TITLE SHEET

G-001

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/ICO-LOCATE ONLY)
- B. AC/TELCO INTERFACE BOX (PPC)
- C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
- D. TOWERS MONOPOLES
- E. TOWER LIGHTING
- F. GENERATORS & LIQUID PROPANE TANK
- G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- H. ANTENNAS (INSTALLED BY OTHERS)
- I. TRANSMISSION LINE
- J. TRANSMISSION LINE JUMPERS
- K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
- L. TRANSMISSION LINE GROUND KITS
- M. HANGERS
- N. HOISTING GRIPS
- O. BTS EQUIPMENT
- I. 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 NIT CHEMICAL GROUND ROO(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.
- 4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- 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.
- 7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- 8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOL IS. FTC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- 12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE. REP PRIOR TO PROCEEDING.
- 13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MORILE CONSTRUCTION MANAGER
- 15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 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.
- 17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE 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
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER 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)
 WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
- 11. 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

- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP
 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.
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
- 24. 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 PI ANS
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELLY 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 ADPROVAL
- 28. 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.
- 29. 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 WORKMANLIKE 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
- 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
- 32. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, 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.
- 33. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN JOHNON 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:

- 1. WORK INCLUDED:
 - A. 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 PERSONNE!
 - 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 RFS "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 FOLIAL.

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

CONCRETE AND REINFORCING STEEL NOTES:

- I. 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 REQUIREMENTS 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 PSI UNLESS OTHERWISE NOTED.
- 4. 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 94N

WELDED WIRE FABRIC: ASTM A185

ADMIXTURES:

-WATER-REDUCING AGENT: 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

- 5. 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.
- 7. 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.
- 9. DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE 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.
- 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."
- 15. 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 TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS. UNLESS SHOWN IN THE CONTRACT DRAWINGS.
- 18. 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
- 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 67.
- 20. BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- 21. 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" 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

AND STATE CODES AND NATIONAL ELECTRICAL CODE.

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

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.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE



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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 OF 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	REVIS	ION.
REV.	DESCRIPTION	BY	DATE
\triangle_{-}	PRELIM	NY	01/10/23
△_	FINALS	MS	02/06/23
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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:

SEAL:

OF FLOOD

OF

T Mobile

MH PROJ NO: 220329500
ATC PROJ. #: 14192636
CUST. ID: 9JK2817A (USA)
CUST. #: 9JK2817A

GENERAL NOTES

SHEET NUMBER:

G-002

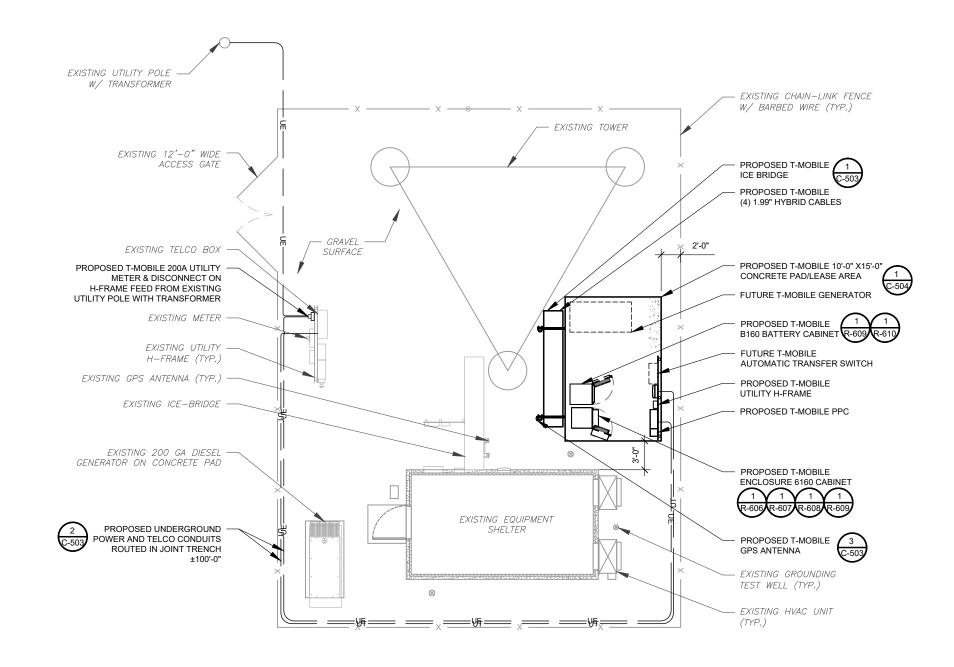
COMPOUND PLAN NOTES:

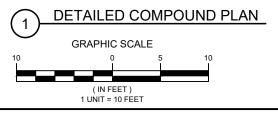
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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
- 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
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
Т	TELCO
TRN	TRANSFORMER
	CHAINLINK FENCE

PROPOSED CABLE NOTES:

- ESTIMATED LENGTH OF PROPOSED CABLE IS ±302'. 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)









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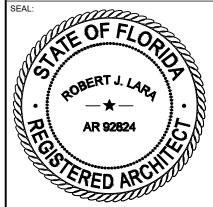
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COLUMBIA (CHARLES) FL

T-MOBILE SITE NAME:

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SITE ADDRESS: CHARLES TERRACE LAKE CITY.FL 32024



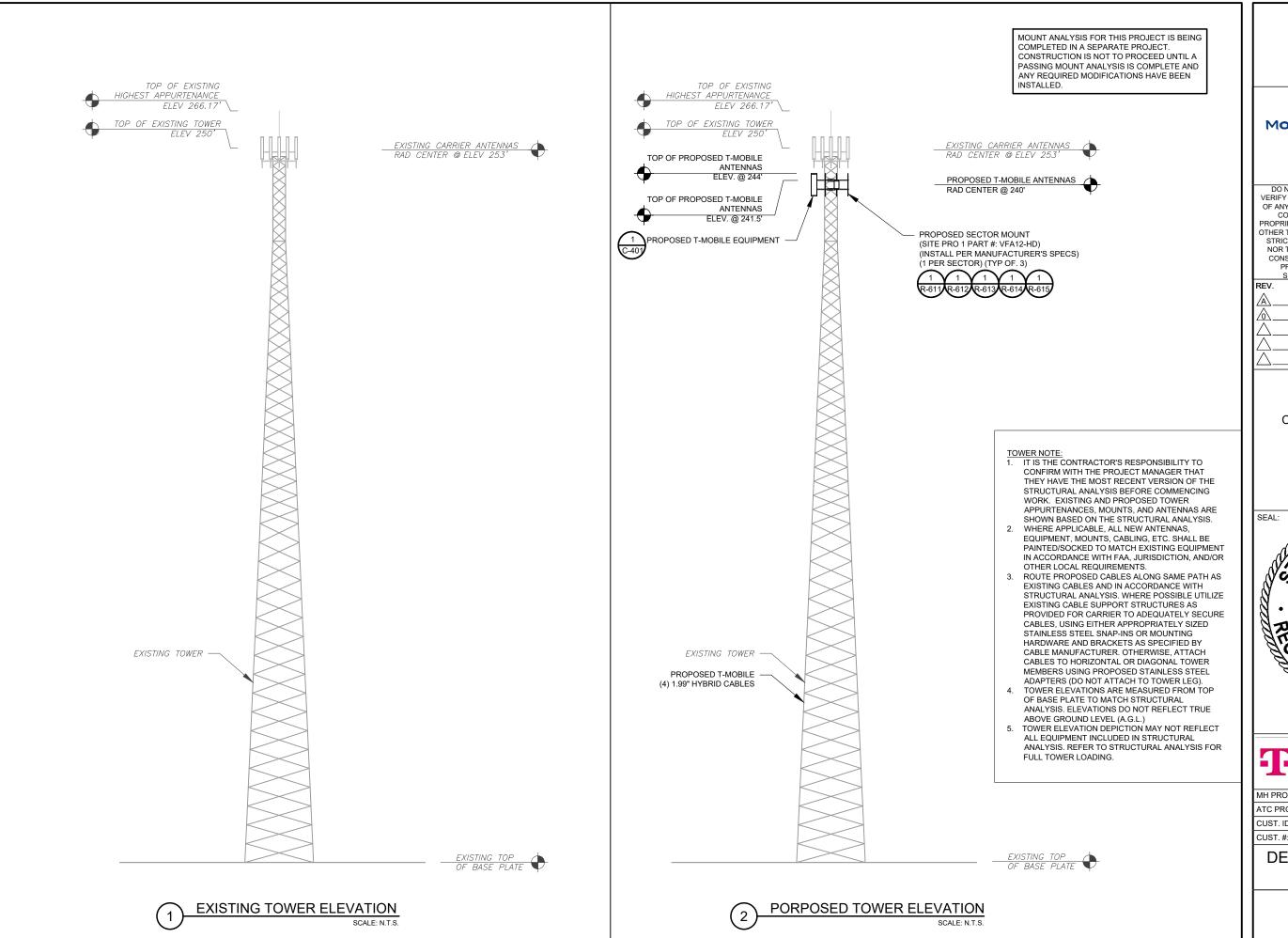
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MH PROJ NO:	220329500
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CUST. #:	9JK2817A

DETAILED COMPOUND PLAN

SHEET NUMBER: C-101

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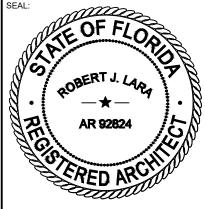
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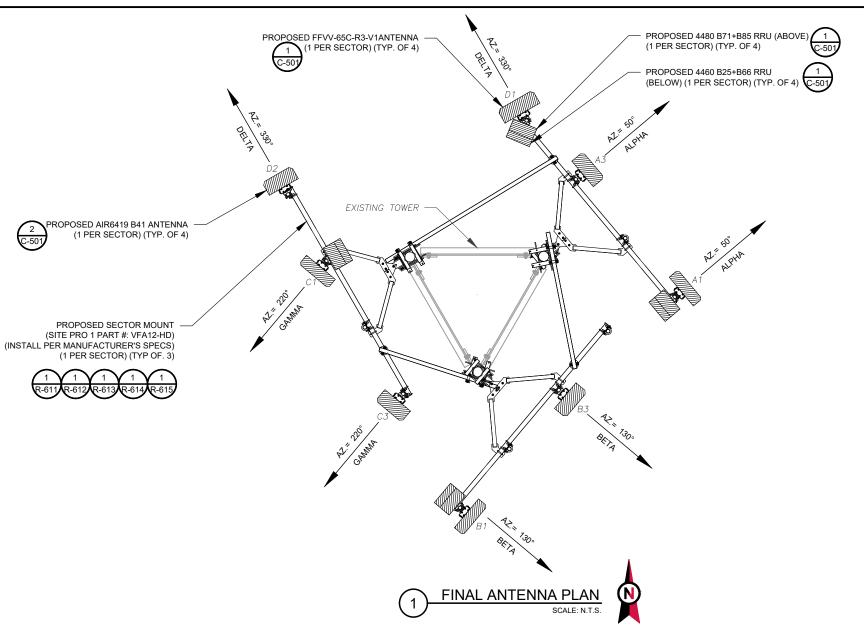
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CUST. #:	9JK2817A

DETAILED COMPOUND PLAN

SHEET NUMBER:

C-201



	FINAL ANTENNA/ COAX SCHEDULE								
SECTOR	RAD	AZ	POS.	ANTENNA	BAND	MECH/ELEC D-TILT	ADDITIONAL TOWER MOUNTED EQUIPMENT	CABLE DESCRIPTION	
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		
			А3	AIR 6419 B41	N2500	0°/-	-		
BETA 24	240'	240'	130°	B1	FFVV-65C-R3-V1	L700/L600/N600/L2100/L1900/N1900	0°/-	(1) 4480 B71+B85 RRU (1) 4460 B25+B66 RRU	
			В3	AIR 6419 B41	N2500	0°/-	-	(4) 4 00" HVPDID CARLES	
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" HYBRID 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 WITH CARRIER REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS.
- 2. ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH THE ATC CM.
- 3. SPACING OF PROPOSED EQUIPMENT SHALL BE CONFIRMED FOR TOWER CONFLICTS AND PROPOSED MOUNTS SHALL NOT IMPEDE TOWER CLIMBING PEGS.
- 4. INSTALL [TOWER JUNCTION BOX MODEL AND QUANTITY].

ANTENNA SCHEDULE

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.



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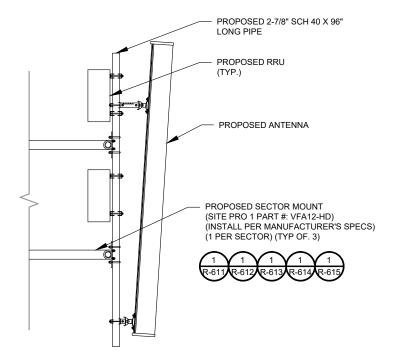
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l	CUST. ID:	9JK2817A (USA)
I	CUST. #:	9JK2817A

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:

C-401

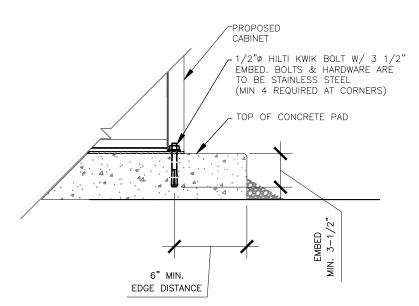
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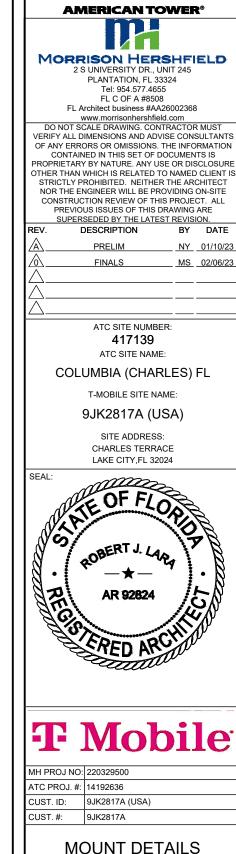
PROPOSED 2-7/8" SCH 40 X 96" LONG PIPE PROPOSED ANTENNA PROPOSED SECTOR MOUNT (SITE PRO 1 PART #: VFA12-HD) (INSTALL PER MANUFACTURER'S SPECS) (1 PER SECTOR) (TYP OF. 3)

PROPOSED ANTENNA AND RRU MOUNTING DETAIL - TYPICAL

PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL



CABINET ANCHORING DETAIL



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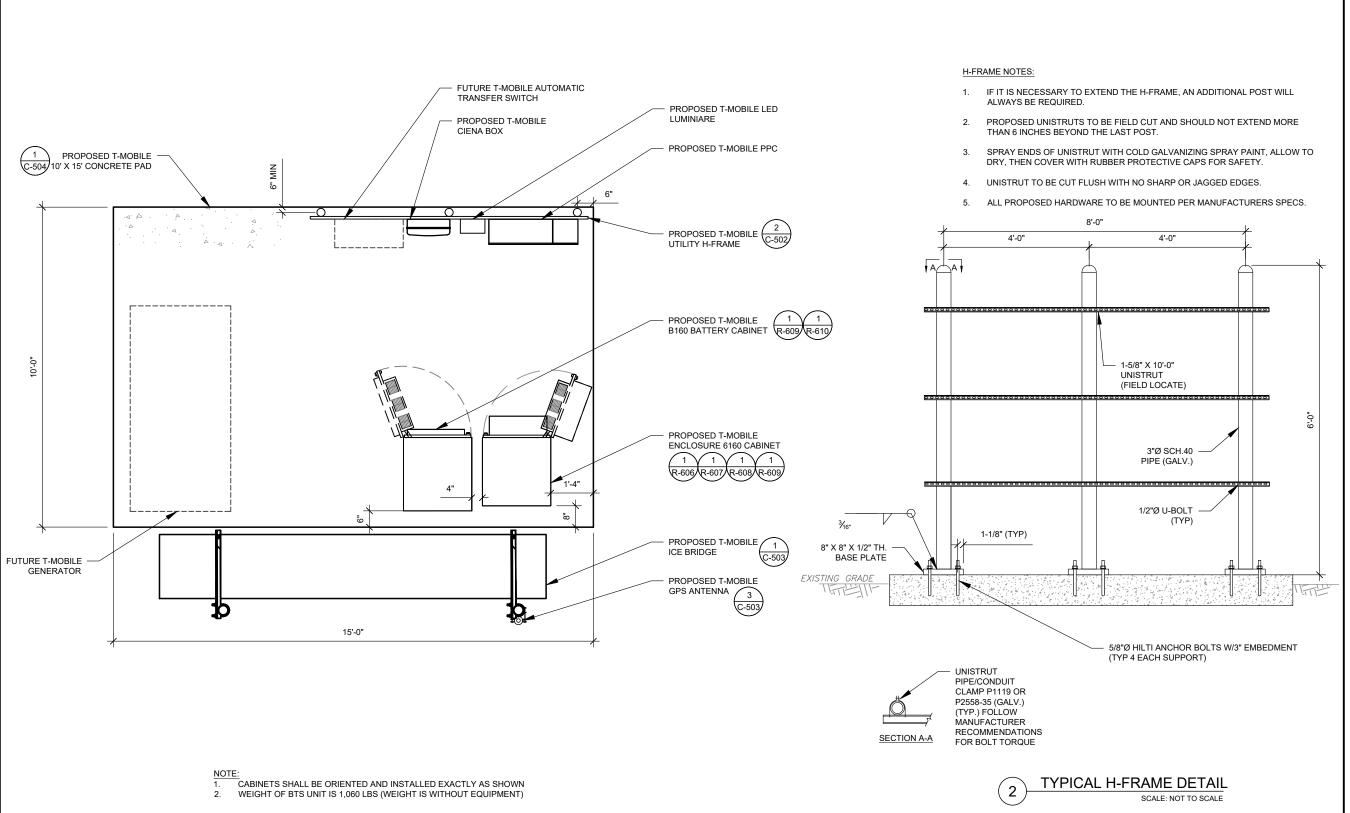
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MOUNT DETAILS

SHEET NUMBER:

C-501



DETAILED EQUIPMENT LAYOUT



m.

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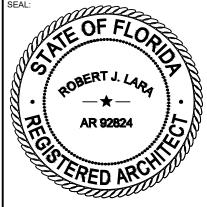
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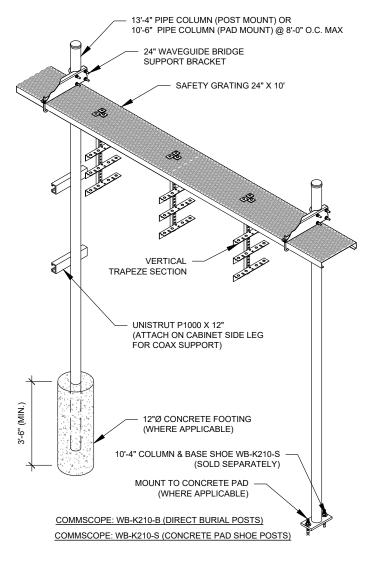
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CONSTRUCTION DETAILS

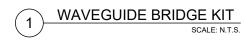
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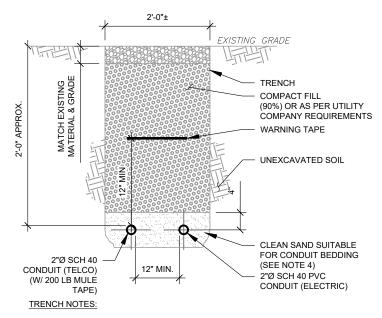
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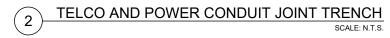
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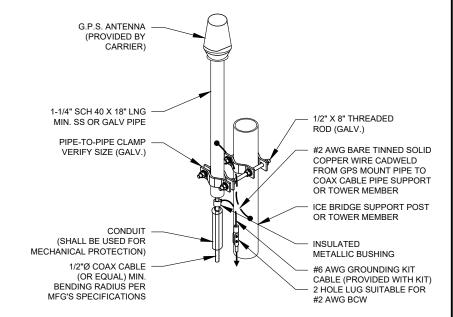
- INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.
- 2. INSTALL PER MANUFACTURES SPECIFICATION.





- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
- 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.
- 3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
- 4. CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.



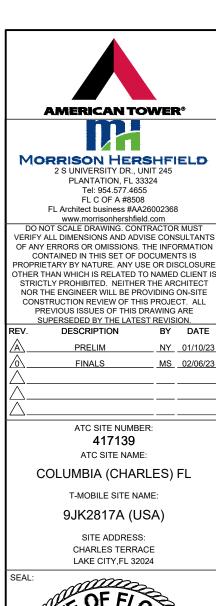


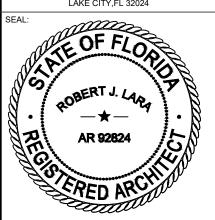
NOTE

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

GPS ANTENNA ATTACHMENT DETAIL

SCALE: N.T.S





T Mobile

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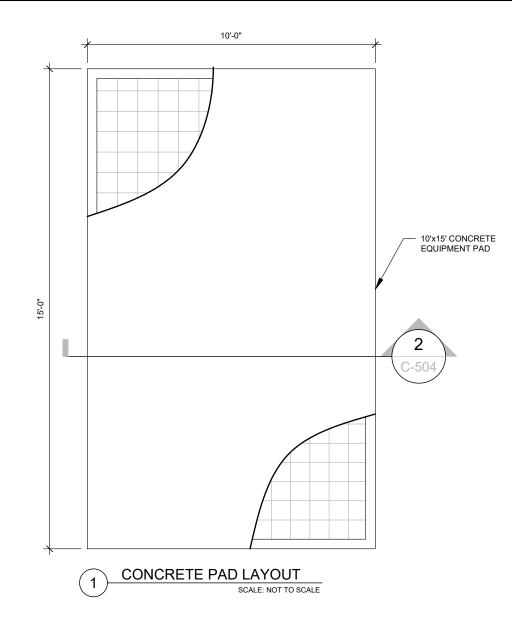
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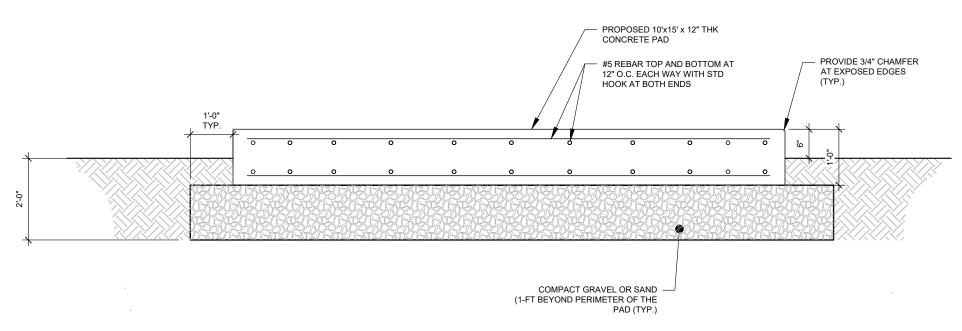
CONTRACTOR NOTES:

- 1. ALL CONCRETE FOR SLAB FOUNDATION SHALL BE 3000 P.S.I. (MIN.)
- IF BUILDER SET DATE WILL BE WITHIN 24 HRS OF SLAB POUR THEN SITE CONTRACTOR SHALL USE 5000 P.S.I.
 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 VERIFY AT STAGING YARD.)
- 4. CONTRACTOR SHALL ANCHOR EQUIPMENT PER MANUFACTURES RECOMMENDATIONS.
- 5. ALL FOUNDATIONS SHALL BE POURED WITHIN A $\frac{1}{4}$ " OF LEVEL IN ALL DIRECTIONS AND SMOOTH FINISHED.

FOUNDATION NOTES:

- 1. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000-PSI AT 28-DAY CURE, AND SHALL MEET SPECIFICATION FOR READY-MIXED CONCRETE (ASTM C94). CONCRETE SHALL BE PLACED AND CURED AS PER ACI-318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".'
- 2. CONCRETE SLUMP SHALL RANGE BETWEEN 4 INCHES TO 8 INCHES.
- 3. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
- 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
 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.
- 7. ALL REINFORCING STEEL BARS SHALL BE DOMESTIC, NEW BILLET STEEL, ASTM A-615, GRADE 60. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI 315-LATEST EDITION "MANUAL OF STANDARD FOR DETAILING REINFORCED CONCRETE".
- 8. ALL LOAD BEARING FOOTING SHALL BEAR ON TOP OF COMPACTED SOIL.
- WELDING OF REINFORCING BARS AND DOWEL BARS IS PROHIBITED UNLESS OTHERWISE APPROVED BY FINGINFER
- 10. PRIOR TO THE EXCAVATION, CHECK AREA FOR LOCATION OF UNDERGROUND PIPES, CABLES, ETC.





CONCRETE PAD SECTION



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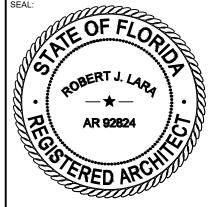
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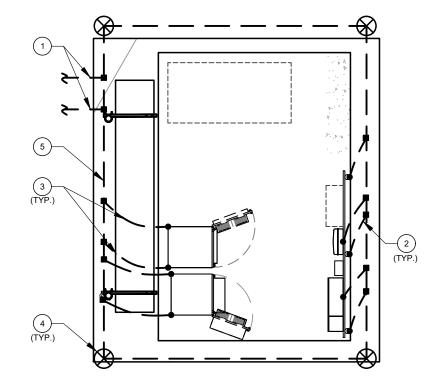
C-504

GROUNDING NOTES:

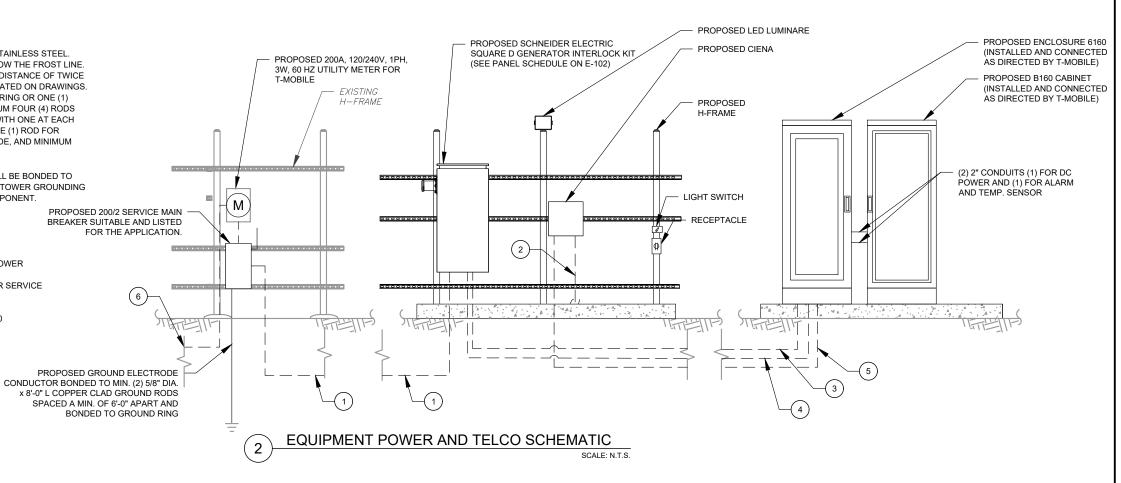
- ALL EQUIPMENT ENCLOSURES, DEVICES AND CONDUITS SHALL BE GROUNDED TO CONFORM WITH THE LATEST REQUIREMENTS OF THE NEC BY THE INSTALLATION OF A SEPARATE, GREEN, INSULATED GROUND CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS. GROUND CONDUCTORS SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS. GROUND CONDUCTORS SHALL BE CONTINUOUS IN LENGTH AND SHALL BE BONDED TO EACH ENCLOSURE THEY PASS THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING CONDUCTOR.
- 2. 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.
 - AVOID LONG BONDING CONNECTION RUNS. MAKE DIRECT AS POSSIBLE.
 - D. NOT HAVE ANY U-SHAPED RUNS.
 - E. BE IN NON-METALLIC CONDUIT ONLY, IF IN CONDUIT.
 - F. 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.
- 3. GROUND RINGS SHALL BE:
 - A. MINIMUM 30" BELOW GRADE, OR BELOW FROST LINE WHICHEVER IS
 - 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 BY
 - EXOTHERMIC WELDING.
 - E. BONDED TO A SINGLE POINT GROUND (SPG) WITH A SINGLE WIRE AS INDICATED ON DRAWINGS.
- 4. GROUND RODS SHALL BE:
 - A. MINIMUM 5/8" DIAMETER.
 - B. MINIMUM 10' LONG.
 - C. COPPER-CLAD GALVANIZED STEEL OR STAINLESS STEEL.
 - D. PLACED IN UNDISTURBED SOIL AND BELOW THE FROST LINE.
 - E. INSTALLED WITH MINIMUM SEPARATION DISTANCE OF TWICE THE DEPTH OF THE ROD(S), OR AS INDICATED ON DRAWINGS.
 - F. 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" 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



1 DETAILED GROUNDING PLAN





GROUNDING KEYED NOTES:

- 1) BOND TO TOWER GROUND RING W/ (2) #2 AWG SBTC CONDUCTORS.
- 2 #2 AWG BOND FROM VERTICAL H-FRAME AND ICE BRIDGE POST TO EXTERNAL GROUND RING (TYP. EVERY POST).
- #2 AWG SBTC EQUIPMENT BOND TO GROUND RING (TYP.)
- (4) 5/8Ø" X 10 FT GROUND ROD.
- #2 AWG SBTC GROUND RING.



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SUPERSEDED BY THE LATEST REVISION.

EV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIM	NY	01/10/23
$\overline{\Diamond}$	FINALS	MS	02/06/23
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$ ag{-}$			

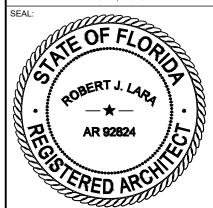
ATC SITE NUMBER:
417139
ATC SITE NAME:

COLUMBIA (CHARLES) FL

T-MOBILE SITE NAME

9JK2817A (USA)

SITE ADDRESS: CHARLES TERRACE LAKE CITY.FL 32024



T Mobile

MH PROJ NO:	220329500
ATC PROJ. #:	14192636
CUST. ID:	9JK2817A (USA)
CUST. #:	9JK2817A

GROUNDING DETAILS & ELECTRICAL SCHEMATIC

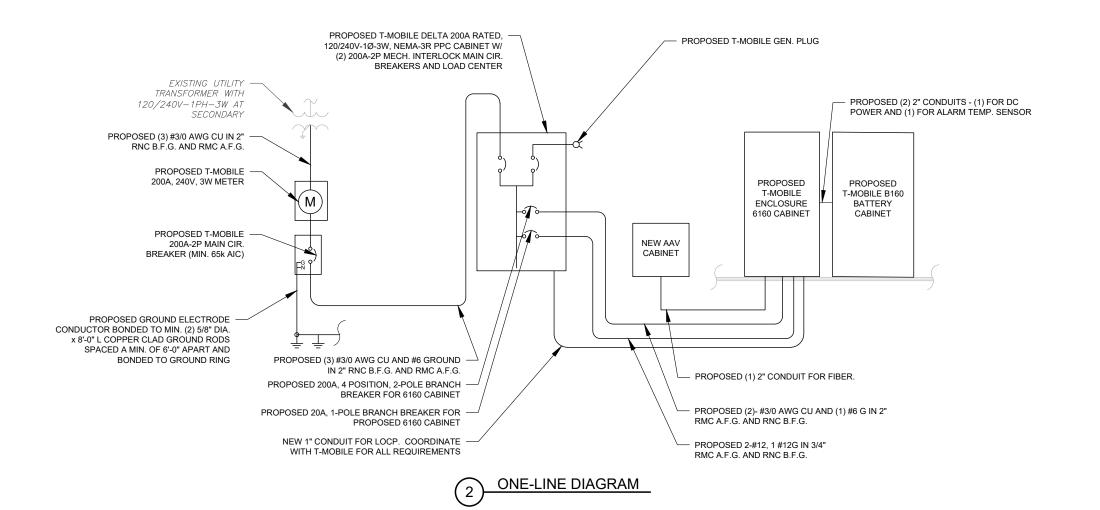
SHEET NUMBER:

E-101

0

	BUS kVA				0015		BUS		00115	0.15				BUS kVA
Α	В	LOAD	WIRE	GND	COND	AMPS	A B	AMPS	COND	GND	WIRE	LOAD	А	В
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 **		7.00
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							7.00
-		SPACE	-	-	-	-	9 — 10						7.00	
	-	SPACE	-	-	-	-	11 12	-	1	-	-	SPACE		-
-		SPACE	-	-	-	-	13 14	-	1	-	-	SPACE	-	
	-	SPACE	-	-	-	-	15 16	-	-	-	-	SPACE		-
-		SPACE	-	-	-	-	17—————————————————————————————————————	-	1	-	-	SPACE	-	
	-	SPACE	-	-	-	-	19 20	-	1	-	-	SPACE		-
-		SPACE	-	-	-	-	21 22	-	1	-	-	SPACE	-	
	-	SPACE	-	-	-	-	23 24	-	-	-	-	SPACE		-
0.40	0.18						А	В	TO	OTAL			14.18	14.00
							14.6	14.2	2	28.8	CONNEC	TED LOAD (kVA)		
		ONFIRM ALL REQUIREMENTS WITH MANUF NON-CONTINUOUS LOADS WITH THE EXC				INSTALLA	TION 14.7	14.2		28.9	DEMAND	LOAD (kVA)	D LOAD AMPS:	

PANEL SCHEDULE





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
<u> </u>	PRELIM	NY	01/10/23
△	FINALS	<u>MS</u> _	02/06/23
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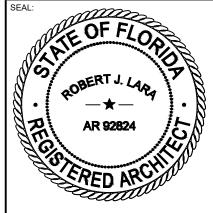
ATC SITE NUMBER: 417139 ATC SITE NAME:

COLUMBIA (CHARLES) FL

T-MOBILE SITE NAME:

9JK2817A (USA)

SITE ADDRESS: CHARLES TERRACE LAKE CITY.FL 32024

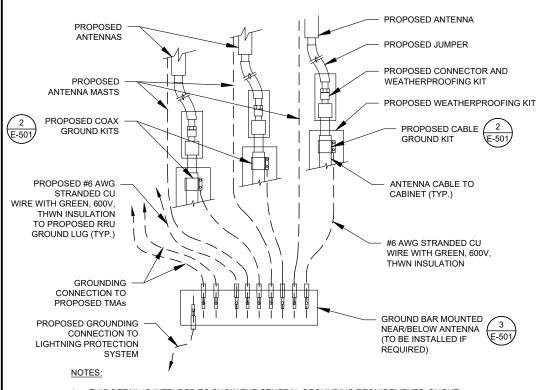


	MH PROJ NO:	220329500
	ATC PROJ. #:	14192636
	CUST. ID:	9JK2817A (USA)
	CUST. #:	9JK2817A

PANEL SCHEDULE & ONE-LINE DIAGRAM

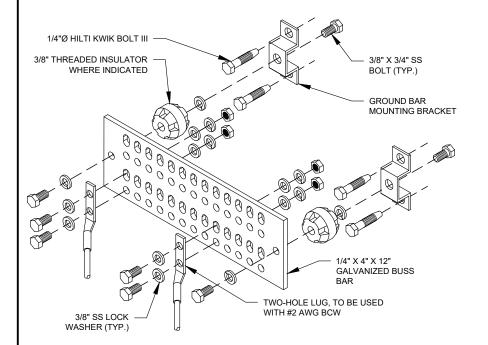
SHEET NUMBER:

E-102



- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.



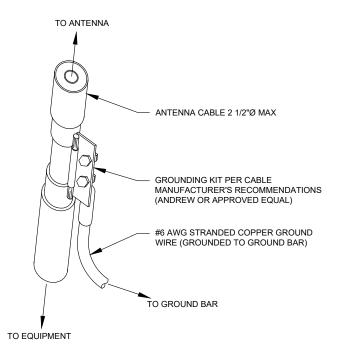


GROUND BAR NOTES

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

MAIN GROUND BAR DETAIL

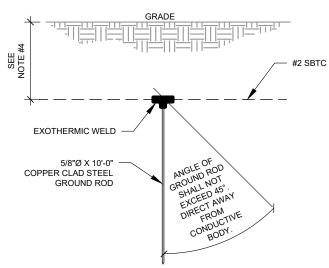
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.



- GROUND KIT NOTES:

 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

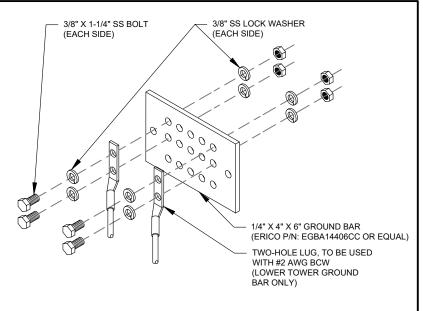


NOTES:

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

GROUND ROD DETAIL

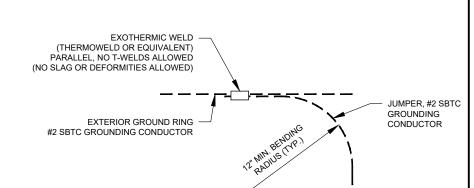
SCALE: N.T.S.



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

TOWER GROUND BAR DETAIL



ATC SITE NUMBER: 417139 ATC SITE NAME:

COLUMBIA (CHARLES) FL

FINALS

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

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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.

BY DATE

NY 01/10/23

MS 02/06/23

T-MOBILE SITE NAME

9JK2817A (USA)

SITE ADDRESS: CHARLES TERRACE LAKE CITY.FL 32024

AR 92824

T Mobile

MH PROJ NO:	220329500
ATC PROJ. #:	14192636
CUST. ID:	9JK2817A (USA)
CUST. #:	9JK2817A

GROUNDING DETAILS

SHEET NUMBER

E-501

REVISION



TIE CONNECTION DETAIL

RAN Template: 4Sec-67E5D998E 6160 (no GSM)

A&L Template: 4Sec-67E5998E_1xAIR+10P

9JK2817A_Coverage Strategy_1

Print Name: Standard PORs: Coverage Strategy_Regional Coverage

Section 1 - Site Information

Site ID: 9JK2817A Status: ReadyForReview

Version: 1

Sector Count: 4

Project Type: Coverage Strategy Approved: Not approved Approved By: Not approved

Last Modified: 11/10/2022 9:52:39 AM

Last Modified By: Ernest.Shuman@T-Mobile.com

RAN Template: 4Sec-67E5D998E 6160 (no GSM)

Antenna Count: 8

Site Name: 9JK2817A (UsA) Site Class: Self Support Tower Site Type: Structure Non Building

Plan Year: Market: JACKSONVILLE FL

Vendor: Nokia Landlord: Not Specified

Latitude: 30.106319

Region: SOUTH

Longitude: -82.760058 Address: Charles Terrace

City, State: Charles Terrace, FL

AL Template: 4Sec-67E5998E_1xAIR+1OP Coax Line Count: 0 TMA Count: 0

RRU Count: 8

Section 2 - Existing Template Images

RFDS HEADER SCALE: NOT TO SCALE

11/10/22, 9:53 AM

9JK2817A_Coverage Strategy_1_2022-11-10

A&L Template: c-67E5998E_1xAIR+1OP

9JK2817A_Coverage Strategy_1 Print Name: Standard PORs: Coverage Strategy_Regional Coverage

Section 6 - A&L Equipment

Existing Template: Custom

	Sect	tor 1 (Propose	d) view from fr	ont (Note: the	images show view from	1 behind)	
Coverage Type	A - Outdoor Macro	9			/ /		
Antenna		7	1			2	
Antenna Model	Commscope - FF	VV-65C-R3-V1 (Oct	0)	7.1	(AIR 6419 B41 (Active Antenna - Massive MIMO))		
Azimuth	(50)				50		
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	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							
Unconnected Equip Scope of Work:	oment:						

11/10/22, 9:53 AM

9JK2817A_Coverage Strategy_1_2022-11-10

9JK2817A_Coverage Strategy_1

Coverage Type							
Coverage type	(A - Outdoor Macro	9]					
Antenna		7	1		2		
Antenna Model	Commscope - FF	VV-65C-R3-V1 (Oct	0)		(AIR 6419 B41 (Active Antenna - Massive MIMO))		
Azimuth	130				130		
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 1871+885 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	Radio 4460 B25+B66 (At Antenna)			
Sector Equipment							
Unconnected Equip	pment:	,					
Scope of Work:							
Scope of Work:							

BETA SECTOR INFORMATION

SUPPLEMENTAL

REVISION:

SHEET NUMBER:

11/10/22	O.FO	ARA	

9JK2817A_Coverage Strategy_1_2022-11-10

RAN Template:	A&L Template:
4Sec-67E5D998E 6160 (no GSM)	4Sec-67E5998E_1xAIR+10P

9JK2817A_Coverage Strategy_1

Print Name: Standard
PORs: Coverage Strategy_Regional Coverage

	Sec	tor 3 (Proposed	d) view from fr	ont (Note: the	images show view from	ı behind)		
Coverage Type	A - Outdoor Macro							
Antenna		1 2						
Antenna Model	Commscope - FF	VV-65C-R3-V1 (Octo	0)		(AIR 6419 B41 (Active Antenna	a - 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	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								
Unconnected Equip	pment:							
Scope of Work:								
*A dashed border in	ndicates shared conn	nected equipment. Ar	ny shared equipmen	t, besides the first, i	s denoted with the SHARED key	word.		

(1)	GAMMA SECTOR INFORMATION
\bigcup	SCALE: NOT TO SCALE

11/10/22,	9:53	AM
11/10/22,	0.00	LAINI

9JK2817A_Coverage Strategy_1_2022-11-10

RAN Template:	A&L Template:
4Sec-67E5D998E 6160 (no GSM)	4Sec-67E5998E_1xAIR+1OP
SAME THE RESIDENCE OF THE ALL PROJUCTION OF THE PROPERTY OF TH	Charles and the residence of the residence of

9JK2817A_Coverage Strategy_1

Print Name: Standard
PORs: Coverage Strategy_Regional Coverage

	Sect	tor 4 (Propose	d) view from fr	ont (Note: the	images show view from	behind)	
Coverage Type	A - Outdoor Macro	A - Outdoor Macro					
Antenna	1				2		
Antenna Model	Commscope - FFVV-65C-R3-V1 (Octo)				AIR 6419 B41 (Active Antenn	a - Massive MIMO)	
Azimuth	(330)				(330)		
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+885 (At Antenna)	Radio 4480 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	Radio 4460 B25+B66 (At Antenna)			
Sector Equipment		_					
Unconnected Equip Scope of Work:	oment:						

1	\sim	1
(2)
\	_	/

DELTA SECTOR INFORMATION

SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER:

REVISION:

□ | R-602

11/10/22, 9:53 AM 9JK2817A_Coverage Strategy_1_2022-11-10 A&L Template: 4Sec-67E5998E_1xAIR+1OP RAN Template: 4Sec-67E5D998E 6160 (no GSM) 9JK2817A_Coverage Strategy_1 Print Name: Standard PORs: Coverage Strategy_Regional Coverage Section 5 - RAN Equipment **Existing RAN Equipment** ---- This section is intentionally blank. ----Proposed RAN Equipment Template: 4Sec-67E5D998E 6160 (no GSM) Enclosure 2 **Enclosure Type** Enclosure 6160 AC V1 RP 6651 N600 L600 RP 6651 N2500 RP 6651 N1900 L1900 Baseband L600 L2100 L700 **Transport Syste** CSR IXRe V2 (Gen2) **Hybrid Cable** Hybrid Trunk 6/24 4AWG 90m (x 4) (PSU 4813 vR4A (Kit) (x 2) RAN Scope of Work:

CABINET CONFIGURATION

9JK2817A_Coverage Strategy_1_2022-11-10

11/10/22, 9:53 AM

2 ANTENNA CONFIGURATION

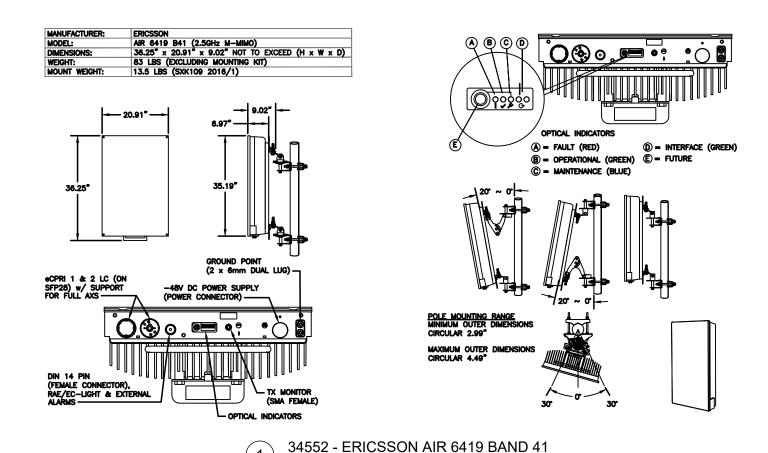
SUPPLEMENTAL

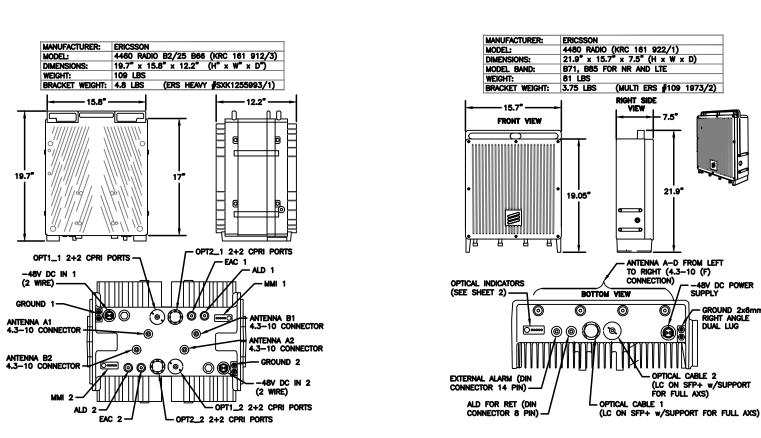
SHEET NUMBER:

R-603

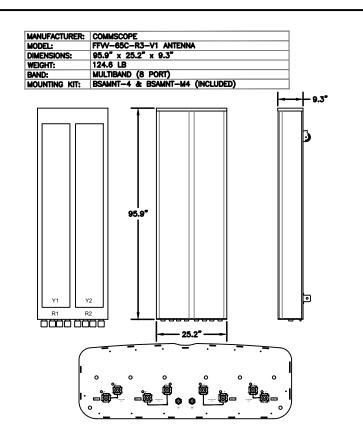
REVISION:

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SCALE: N.T.S.



34074 - COMMSCOPE FFVV-65C-R3-V1 SCALE: N.T.S.

SUPPLEMENTAL

SHEET NUMBER:

R-604

REVISION

34372 - ERICSSON B71/85 RADIO

21.9"

- -48V DC POWER SUPPLY

GROUND 2x6mm RIGHT ANGLE DUAL LUG

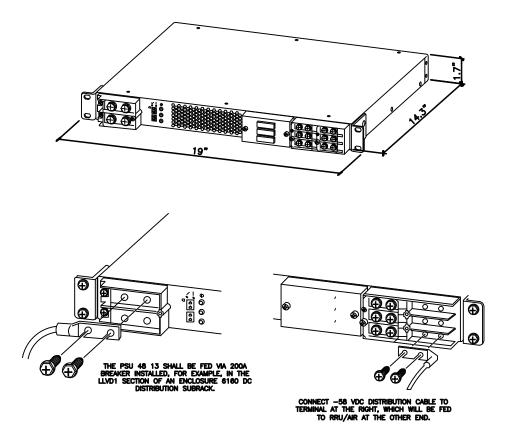
- OPTICAL CABLE 2 (LC ON SFP+ w/SUPPORT FOR FULL AXS)

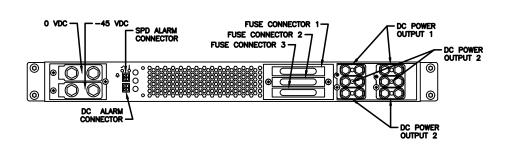
SCALE: N.T.S.

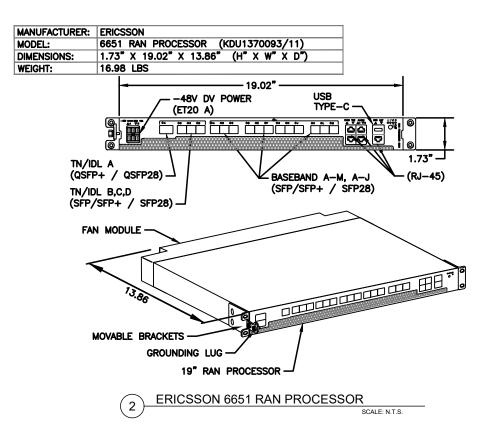
SCALE: N.T.S.

MANUFACTURER: ERICSSON MODEL: PSU 48 13 WEIGHT: 17.1 LBS DIMENSIONS: 19"x 1.7"x 14.3" NEEDED INSTALL KIT (PICK 1) 34133 PSU4813 INSTALL KIT FOR RBS61XX

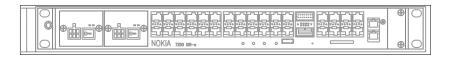
34134 PSU4813 INSTALL KIT FOR PBC6200 34135 PSU4813 INSTALL KIT FOR 6X60/RBS6230







NOKIA	
IXR-E M	ODULE
17.25"x1	0.0"x1.75" (HxWxD)
TBD	

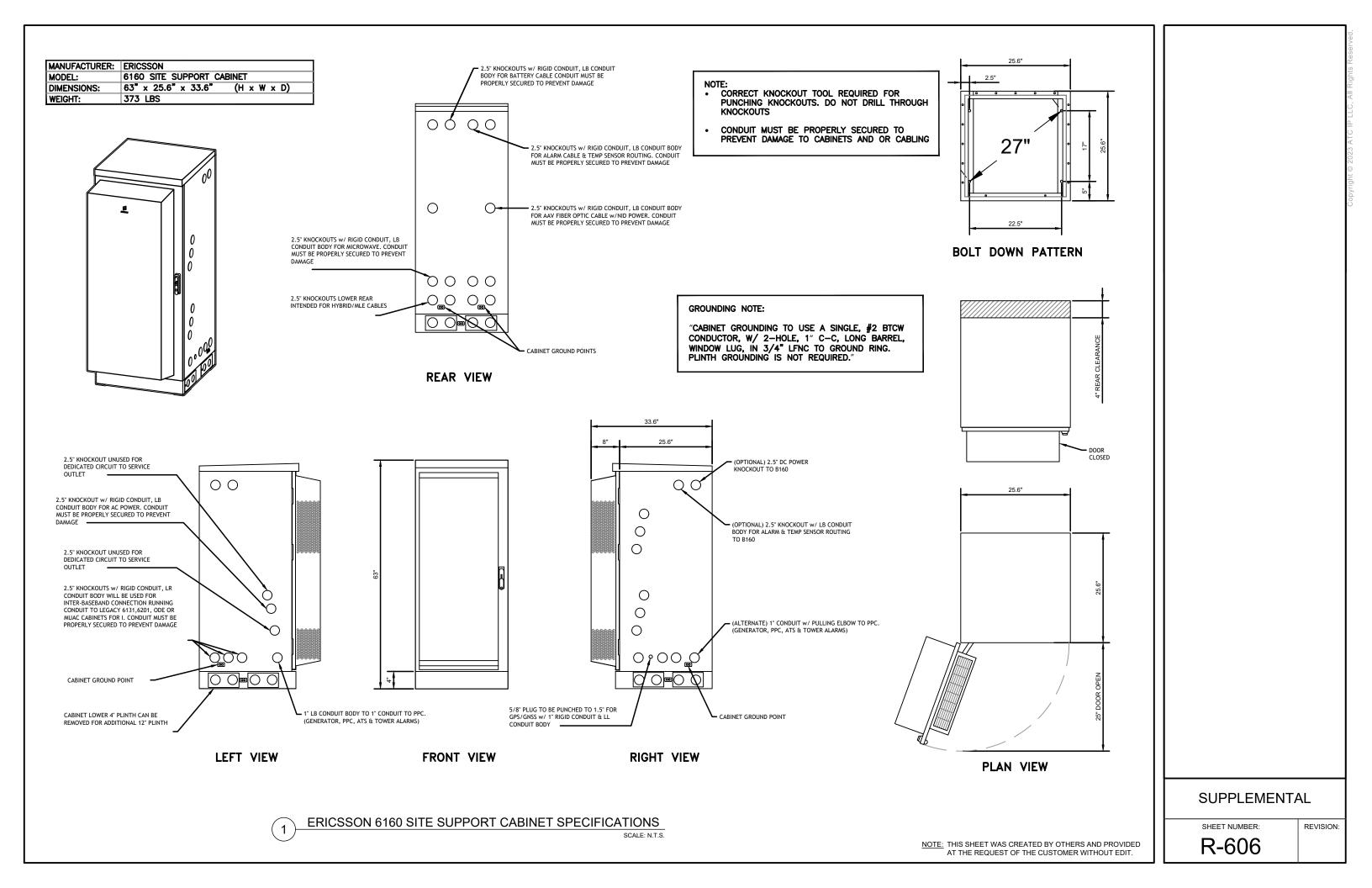


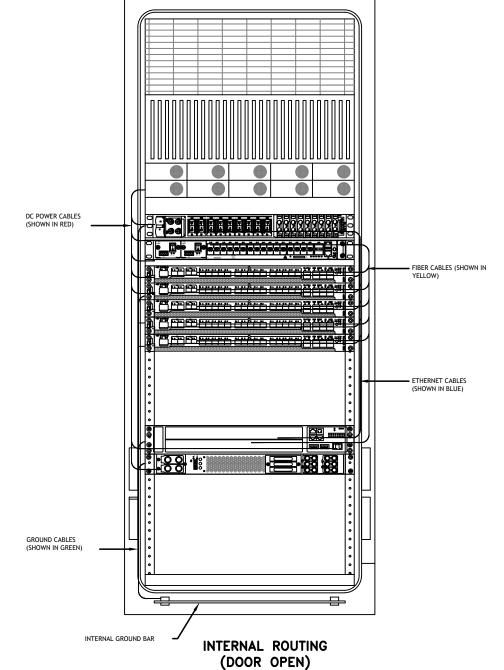
IXRE

SUPPLEMENTAL

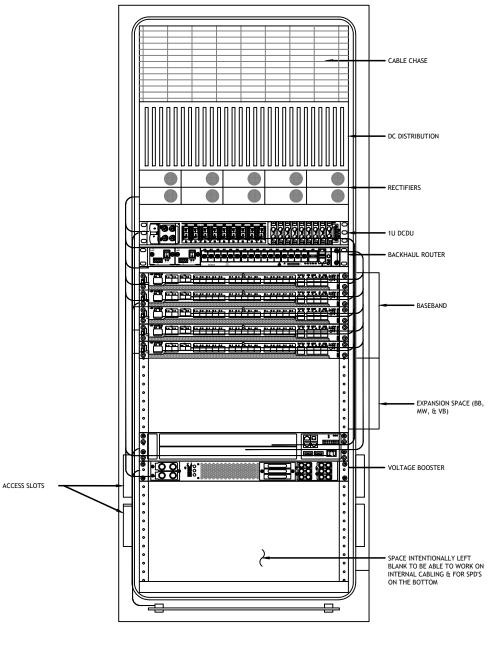
SHEET NUMBER:

R-605





RACK ASSIGNMENTS					
RU SLOTS	DESCRIPTION				
1					
2	DC DISTRIBUTION				
3	DO DISTRIBUTION				
4					
5	DECTIFIED SUFIE				
6	RECTIFIER SHELF				
7	FIBER BOX				
8	DCDU				
9	BACKHAUL ROUTER				
10	BACKHAUL ROUTER				
11	1ST BASEBAND				
12	2ND BASEBAND				
13	3RD BASEBAND				
14	4TH BASEBAND				
15	5TH BASEBAND				
16					
17	EXPANSION				
18	EXI ANOION				
19					
20	EXPANSION / LEGACY				
21	BASEBAND / VOLTAGE BOOSTER				
22	VOLTAGE BOOSTER				
23					
24	OPEN SPACE FOR SPD ACCESS				
25					



FRONT VIEW (DOOR OPEN)

SUPPLEMENTAL

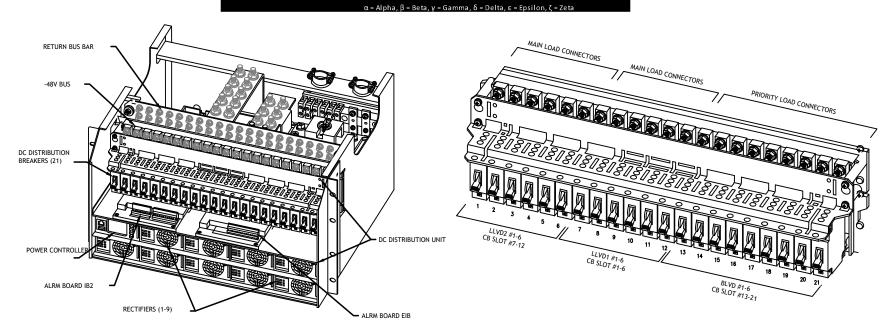
SHEET NUMBER:

REVISION:

ERICSSON 6160 CABINET DETAILS

NOTE:
THIS IS FOR REFERENCE ONLY, CHECK
FOR SPECIFIC DETAIL IN T-MOBILE
CABINET SPECIFIC INSTALLATION GUIDES

Breaker Allocation for E6160							
CB SLOT	Ckt	#	w/ DCDU Prior to availability of the 4460 and 4480 w/ DCDU Later Design Post- 4460 and Post-4480		w/ DCDU 4 and 6 Sector designs		
1		1	Router	PS-2*/Future	Radio 4460 B25/66 ζ-1		
2		2	F	uture	Radio 4460 B25/66 ζ-2		
3	LVD1 47.0V	3	PSU 4813 feeding B25	PSU 4813 feeding B41-δ & B71/12-δ			
4	47.00	4			(Air 6449s and Radio 4480s)		
5		5	DCII	149s)			
6		6	PSU	1495)			
7		1	PSU 4813 feeding B71/12	PSU 4813 feeding B71/12 α			
8		2	α, β and γ (Radio 4449s)	r, p and γ (καυτό 44δος)			
9	LVD2	3	F	uture	Radio 4460 B25/66 δ-1		
10	45.1V	4	F	Radio 4460 B25/66 δ-2			
11		5	F	Radio 4460 B25/66 ε-1			
12		6	F	uture	Radio 4460 B25/66 ε-2		
13		1		Router PS-1			
14		2	Radio 4415 B25/66 α	Radio 4460 B	25/66 α-1		
15		3	Radio 4415 B25/66 β	Radio 4460 B	25/66 α-2		
16	DILL O	4	Radio 4415 B25/66 γ	Radio 4460 B	25/66 β-1		
17	BLVD 43.2V	5	PSU 4813 feeding B2/25	Radio 4460 B	25/66 β-2		
18	13.27	6	α, β and γ (Radio 4424s)	Radio 4460 B	25/66 γ-1		
19		7	Future	Radio 4460 B	25/66 γ-2		
20		8		DCDU			
21		9		AAV			
Sector Identification							



POWER SUBRACK

DC DISTRIBUTION

ERICSSON 6160 ELECTRICAL DETAILS

SCALE: N.T.S.

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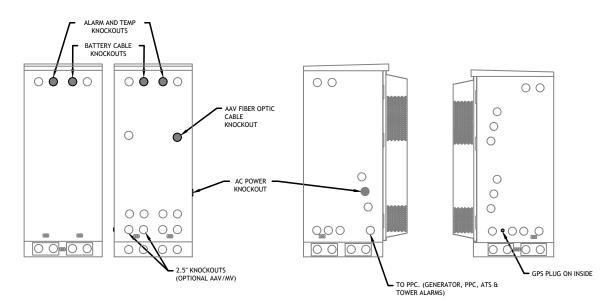
SUPPLEMENTAL

SHEET NUMBER:

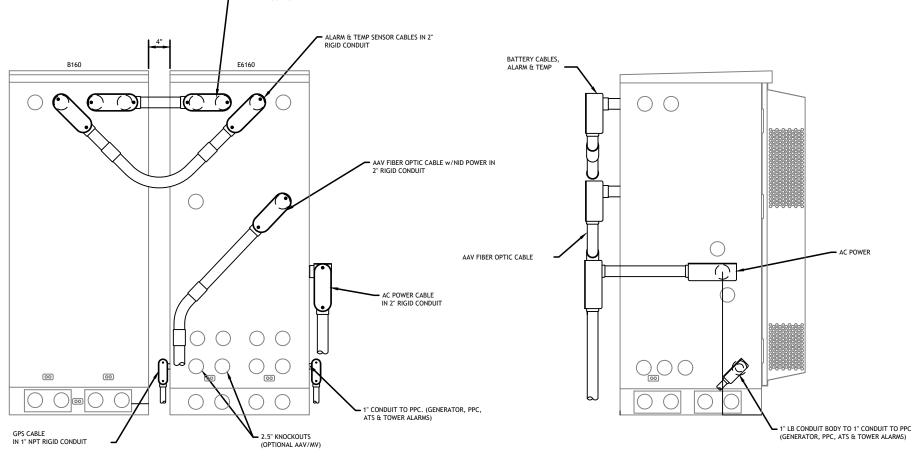
REVISION:

NOTE:

- 1. ALL CONDUIT AND FITTING ENTRANCES INTO CABINETS AND ENCLOSURES MUST UTILIZE MYERS OR EQUIVALENT HUBS OR SEALING WASHERS TO PREVENT WATER ENTRY/SEEPAGE INTO CABINETS AND ENCLOSURES.
- 2. (LIQUIDFLEX) FLEXIBLE METALLIC CONDUIT (LFMC) & ASSOCIATED FITTINGS CAN BE USED AS NEEDED BUT ONLY FOR TIGHT CONDUIT BENDS AND RUNS SUBJECT TO UL AND NEC LIMITATIONS. 6' MAX PER
- 3. POWER CONDUIT BODY ATTACHED WITH SHORT NIPPLE AND SEALING WASHER INSIDE & OUT. (FOR DOOR HOOD CLEARANCE)
- 4. PULLING ELBOWS MAY BE USED IN LIEU OF A CONDUIT BODIES WHEN CLEARANCE IS LIMITED.
- 5. ALL EXTERNAL ALARM CONDUITS ARE TOO TERMINATE AT THE PPC WITH A SINGLE 1" ALARM CONDUIT TO THE 6160.
- 6. (DO NOT USE CHASE NIPPLES) CONDUIT SHOULD HAVE SEALING WASHERS INSIDE AND OUT w/ LOCK NUT AND CAP.



CONDUIT LOCATIONS



SIDE VIEW

ERICSSON 6160/B160 CONDUIT ROUTING DETAILS

SUPPLEMENTAL

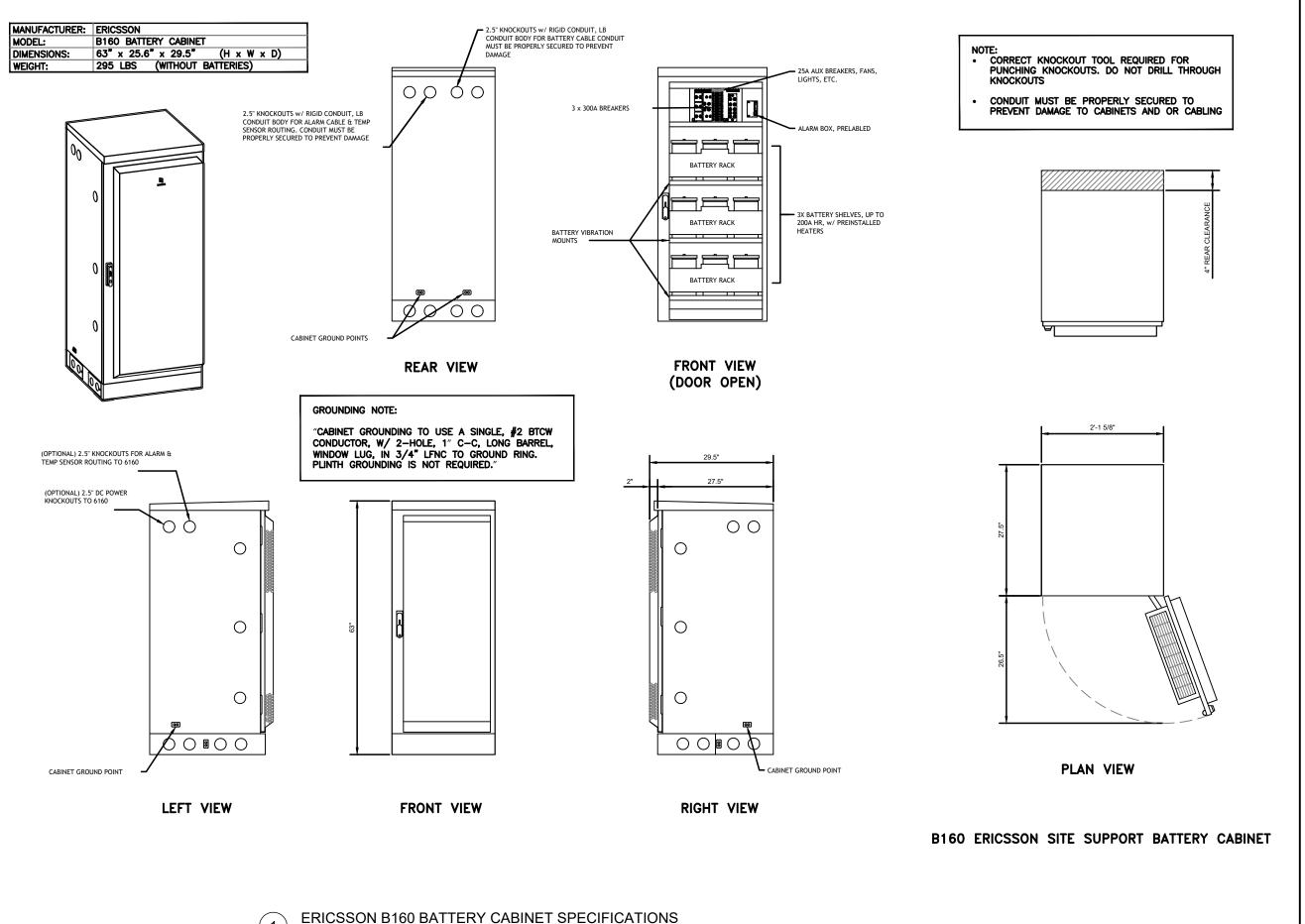
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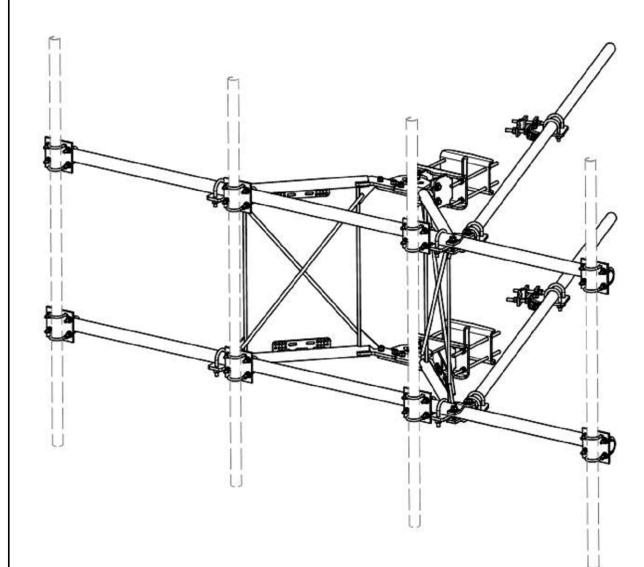
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REAR VIEW



SUPPLEMENTAL

SHEET NUMBER:



TEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT
1	2	X-VFAW	SUPPORT ARM	4	71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	19.00	38.01
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD	1	2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
14	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
15	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
20	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
21	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
22	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)	4	1.15	4.60
23	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
24	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
25	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
26	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
27	4	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.08
28	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
29	25	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.76
30	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
31	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
32	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
33	16	X-UB1212	1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.)		0.60	9.56
34	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
35	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
36	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.58
					TOTAL WT. #	738.06

D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2	I	CEK	6/29/2018
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017
В	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
- 100 KDC	REVISION HISTORY	PLANT WOLF.	0.0 1.4.1	1,100,000

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES & 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 ASSEMBLY & 0.060")

12' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS

BMC 12/13/2017

CHECKED BY

DESCRIPTION

CLASS SUB 81 02 DRAWN BY

CEK 1/25/2017

CUSTOMER

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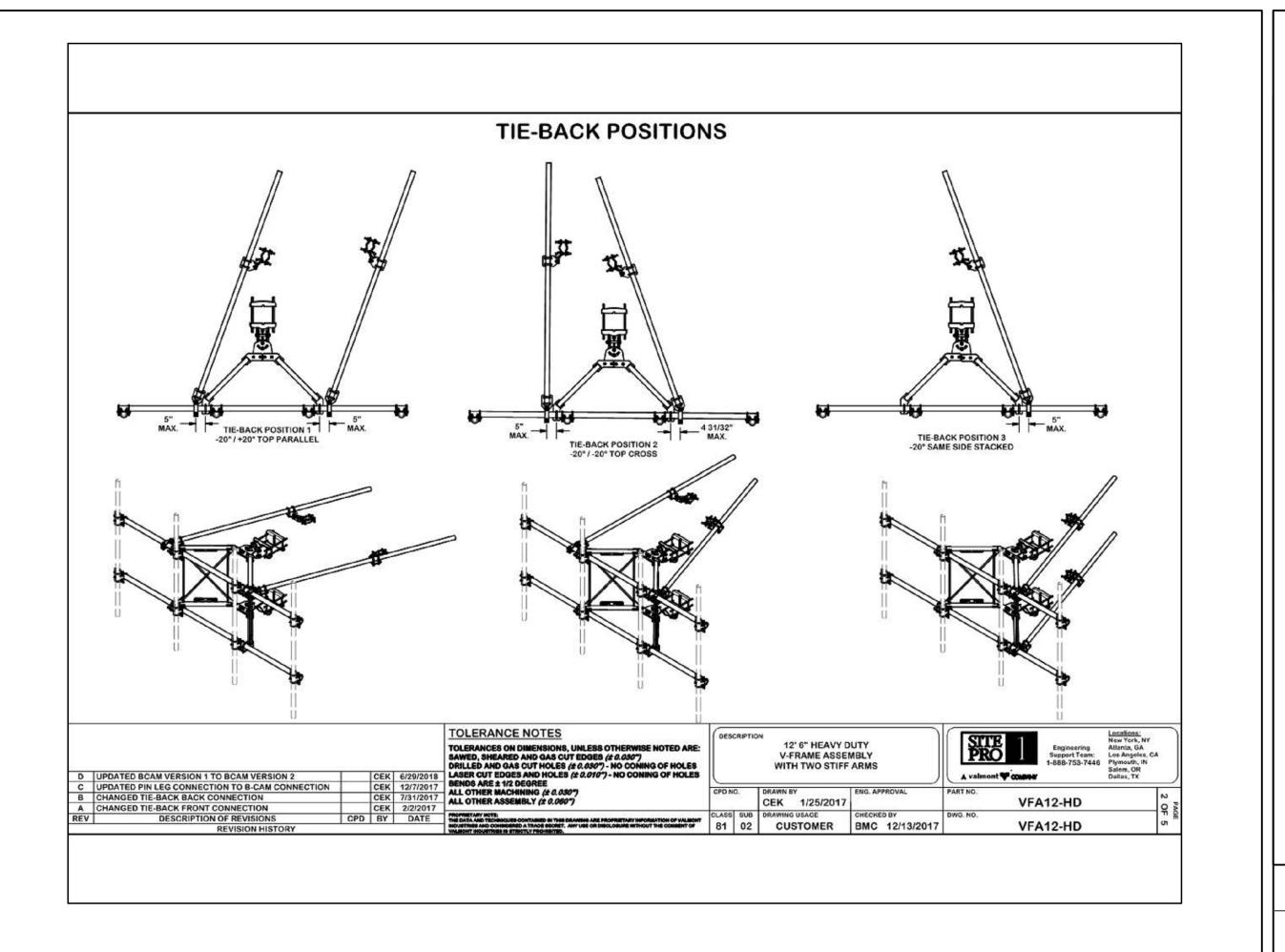
VFA12-HD

VFA12-HD

SUPPLEMENTAL

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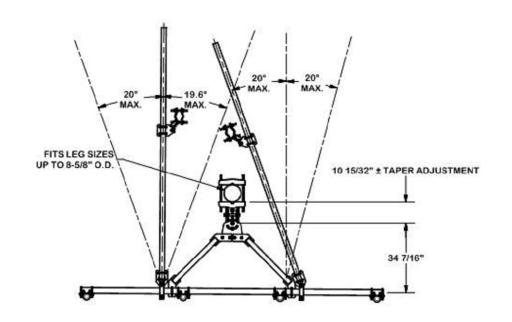
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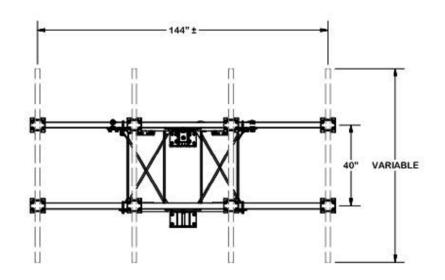


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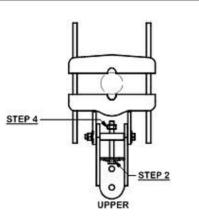
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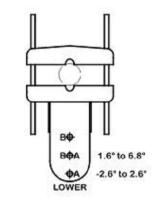


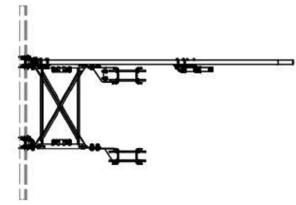


ANGLE CALIBRATING PROCEDURE:

- 1. MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
 - HOLE A = -2.6° TO 2.6°
 - HOLE B = 1.6° TO 6.8°
- 2. USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
- 3. TORQUE LOCKING BOLTS TO 100 ft.-lbs.
- 4. ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.







BMC 12/13/2017

D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2	I	CEK	6/29/2018
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017
В	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
515115	DEVISION HISTORY			955 9 50

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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 ASSEMBLY (± 0.060")

DESCRIPTION

DRAWN BY

CEK 1/25/2017

CUSTOMER

DRAWING USAGE

CPD NO.

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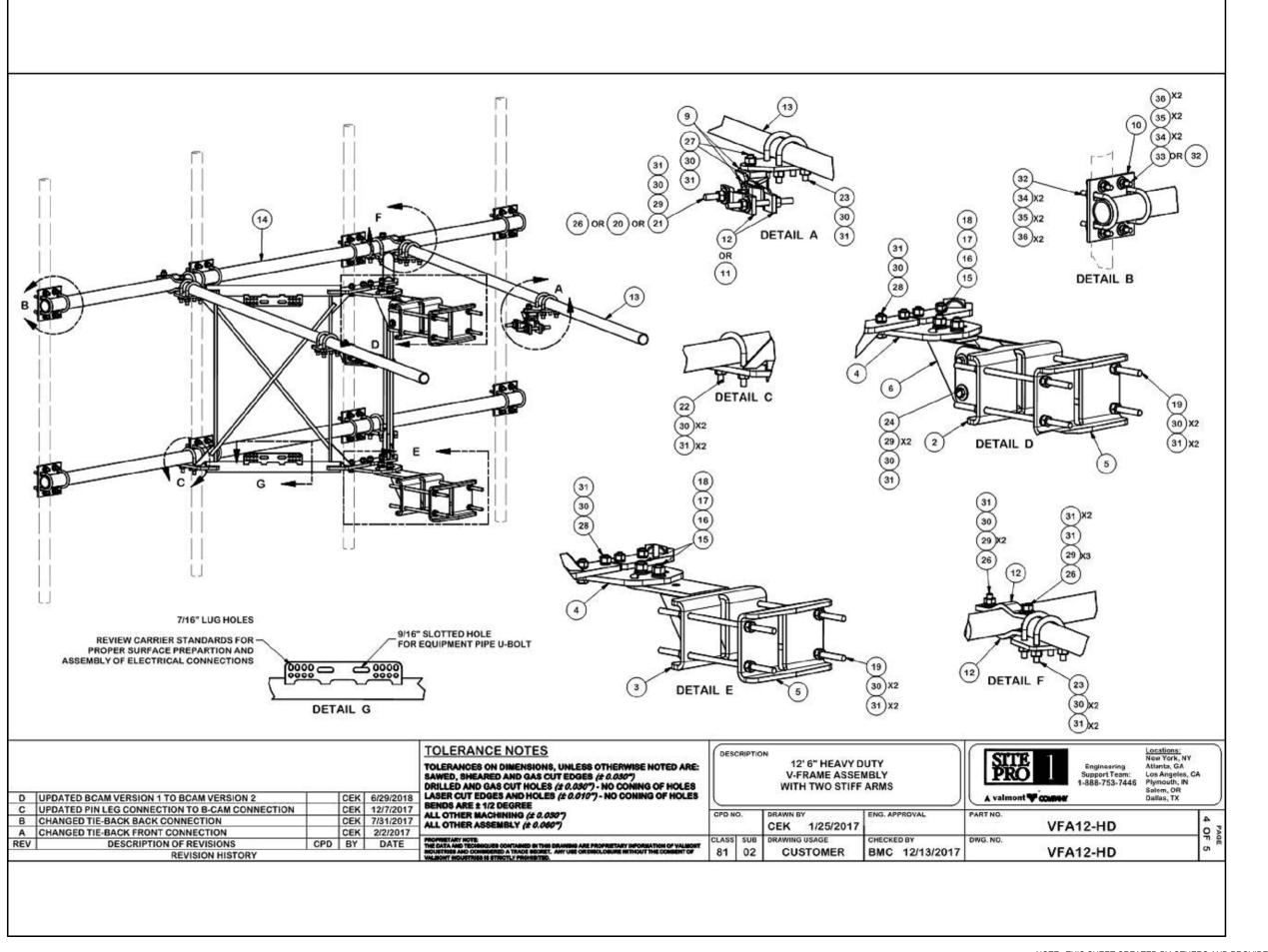
12' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS A valmont V control

PART NO VFA12-HD DWG. NO. VFA12-HD

SUPPLEMENTAL

REVISION:

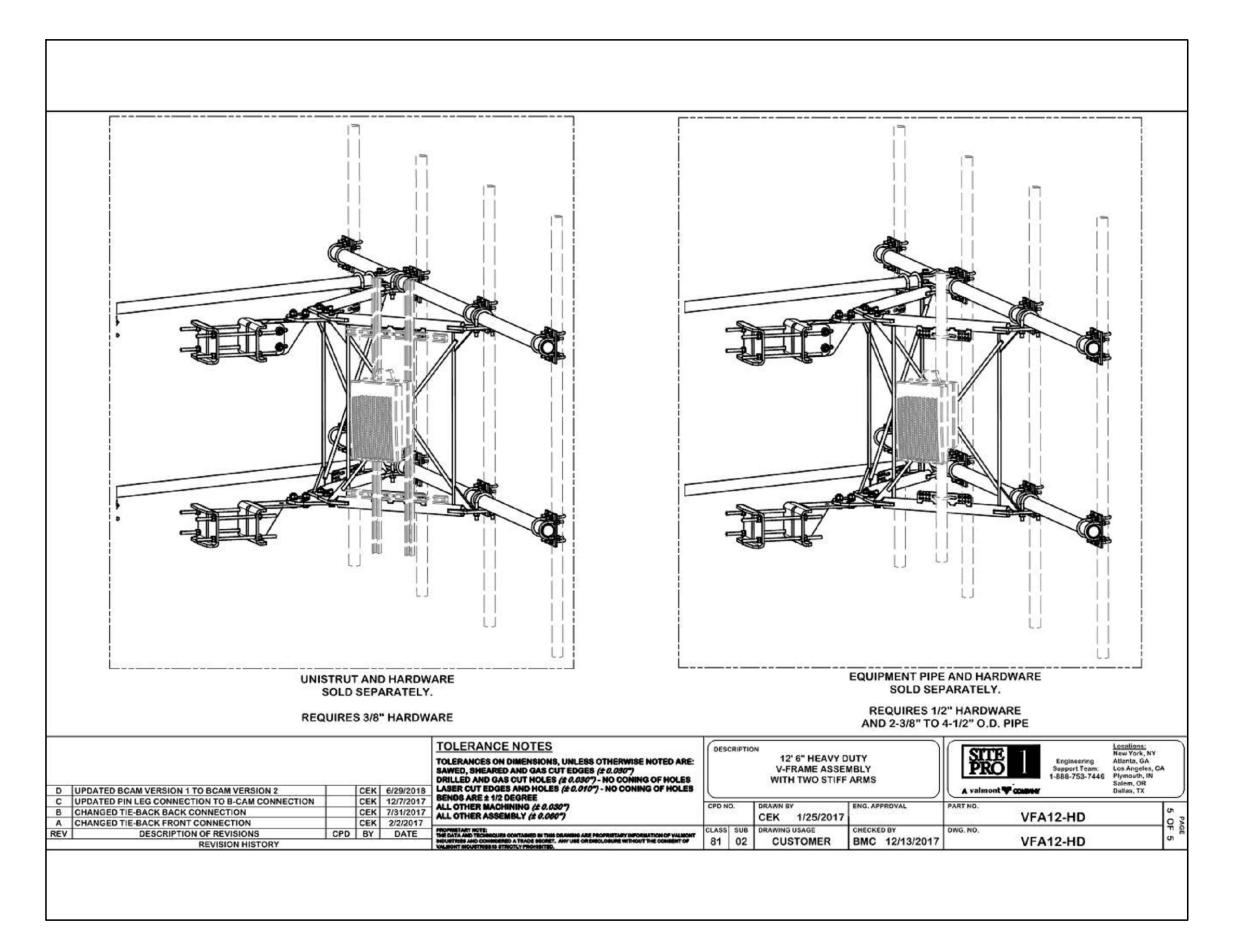
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