

VICINITY MAP



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



LOCATION MAP

ANTENNA MOUNTS:
PROPOSED (3) SECTOR FRAME BY SABRE,
PART NUMBER #C10857001C

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

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
<p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. 2023 FLORIDA BUILDING CODE, 8TH EDITION</p> <p>2. ANSI/TIA-222-H</p> <p>3. 8TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)</p> <p>4. 2020 NATIONAL ELECTRICAL CODE</p> <p>5. BASIC WIND SPEED: 118 MPH Vult (3-SECOND GUST)</p> <p>EXPOSURE CATEGORY: C</p> <p>RISK CATEGORY: II</p> <p>CITY/COUNTY ORDINANCES</p>	<p><u>SITE ADDRESS:</u></p> <p>CHARLES TERRACE LAKE CITY, FL 32024 COUNTY: COLUMBIA</p> <p><u>GEOGRAPHIC COORDINATES:</u></p> <p>LATITUDE: 30.106319° LONGITUDE: -82.760058° GROUND ELEVATION: 104' AMSL</p> <p><u>ZONING INFORMATION:</u></p> <p>JURISDICTION: COLUMBIA COUNTY, FL APN: 304S1603249000 ZONING CODE: N/A</p>	<p>THE PROPOSED PROJECT INCLUDES INSTALLING EQUIPMENT CABINETS ON A PROPOSED CONCRETE PAD INSIDE A 10' X15' GROUND SPACE WITHIN THE EXISTING COMPOUND, AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING TOWER.</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
			G-001	TITLE SHEET	1	01/19/24	MS
			G-002	GENERAL NOTES	1	01/19/24	MS
			C-101	DETAILED COMPOUND PLAN	1	01/19/24	MS
			C-201	TOWER ELEVATION	1	01/19/24	MS
			C-401	ANTENNA INFORMATION & SCHEDULE	1	01/19/24	MS
			C-501	CONSTRUCTION DETAILS	1	01/19/24	MS
			C-502	CONSTRUCTION DETAILS	1	01/19/24	MS
			C-503	CONSTRUCTION DETAILS	1	01/19/24	MS
			C-504	CONSTRUCTION DETAILS	1	01/19/24	MS
			C-505	FENCE DETAILS	1	01/19/24	MS
			E-101	GROUNDING DETAILS & ELECTRICAL SCHEMATIC	1	01/19/24	MS
			E-102	PANEL SCHEDULE & ONE-LINE DIAGRAM	1	01/19/24	MS
			E-501	GROUNDING DETAILS	1	01/19/24	MS
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
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			R-615	SUPPLEMENTAL			
UTILITY COMPANIES	<p><u>TOWER OWNER:</u></p> <p>AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>APPLICANT:</u></p> <p>T-MOBILE 5901 BENJAMIN CENTER DRIVE, SUITE 110 A-B TAMPA, FL 33634</p> <p><u>PROFESSIONAL OF RECORD:</u></p> <p>ROBERT J. LARA, AIA 2 S UNIVERSITY DR., UNIT 245 PLANTATION, FL 33324 (954) 577-4668 rlara@morrisonhershfield.com</p> <p><u>PROPERTY OWNER:</u></p> <p>CHARLES LUTHER DANIEL 1119 SW CYPRESS LAKE DR LAKE CITY, FL 32024</p>	<p>1. THE FACILITY IS UNMANNED.</p> <p>2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.</p> <p>3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.</p> <p>4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.</p> <p>5. HANDICAP ACCESS IS NOT REQUIRED.</p> <p>6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).</p>					
POWER COMPANY: N/A PHONE: N/A							
TELEPHONE COMPANY: N/A PHONE: N/A		PROJECT NOTES					
<div><p>Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.</p><p>check positive response codes before you dig!</p></div>		PROJECT LOCATION DIRECTIONS					
		FROM I-75 TAKE EXIT 427 ONTO US-90.3 MILES TURN LEFT ONTO W 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 CYPRESS LAKE RD1 MILE TURN RIGHT ONTO SW CHARLES TER.4 MILES ACCESS ROAD ON RIGHT					



AMERICAN TOWER®



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	NY	01/10/23
B	FINALS	MS	02/06/23
1	FINALS	MS	01/19/24

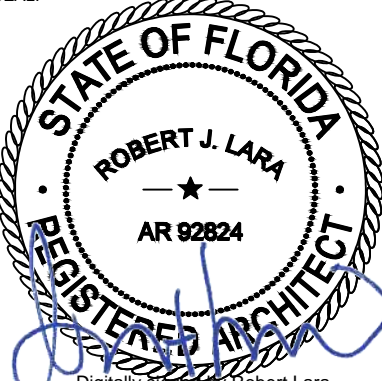
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CHARLES TERRACE
LAKE CITY, FL 32024

SEAL:



Digitally signed by Robert Lara
Date: 2024.01.24 17:11:43-05'00'

T Mobile

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

TITLE SHEET

SHEET NUMBER: G-001	REVISION: 1
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GENERAL CONSTRUCTION NOTES:

1.

OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL

A.

B.

C.

D.

E.

F.

G.

H.

I.

J.

K.

L.

M.

N.

O.

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)

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

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.
3.

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 UTILITIES PRIOR TO START OF CONSTRUCTION.
5.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6.

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 OTHERWISE NOTED.
9.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10.

CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11.

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-MOBILE CONSTRUCTION MANAGER.
15.

ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16.

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 EACH DAY.
19.

CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20.

CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
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 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.
25.

ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. 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.
27.

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 APPROVAL.
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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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 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.
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 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:

1.

WORK INCLUDED:

A.

B.

C.

D.

E.

F.

G.

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.

INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND T-MOBILE SPECIFICATIONS.

INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.

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.

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.

ANTENNA AND COAXIAL CABLE GROUNDING:

2.

ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPICE WEATHERPROOFING KIT #221213 OR EQUAL.

3.

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

CONCRETE AND REINFORCING STEEL NOTES:

1.

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."
2.

MIX DESIGN SHALL BE APPROVED BY T-MOBILE REP PRIOR TO PLACING CONCRETE.
3.

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:

REINFORCEMENT:

REINFORCEMENT BARS:

NORMAL WEIGHT AGGREGATE:

WATER:

WELDED WIRE FABRIC:

ADMIXTURES:

-WATER-REDUCING AGENT:

-AIR-ENTERING AGENT:

-SUPERPLASTICIZER:

-RETARDING:

ASTM C150, TYPE 2

ASTM A185, PLAIN STEEL WELDED WIRE FABRIC

ASTM A615, GRADE 60, DEFORMED

ASTM C33

ASTM C 94/C 94M

ASTM A185

ASTM C 494/C 494M, TYPE A

ASTM C 260/C 260M

ASTM C494, TYPE F OR TYPE G

ASTM C 494/C 494M, TYPE B
5.

MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
6.

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.
8.

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.
10.

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.
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."
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.
16.

DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD 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 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.
19.

SPICES 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.
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.
22.

SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.

ELECTRICAL NOTES:

1.

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.

2.

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.
3.

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.

AMERICAN TOWER®

MORRISON HERSHFIELD

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FL Architect business #AA26002368
www.morrisonhershfield.com

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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:

STATE OF FLORIDA

ROBERT J. LARA

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AR 92824

REGISTERED ARCHITECT

Digitally signed by Robert J. Lara
Date: 2024.01.24 17:11:58-05'00'

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

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 1
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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.

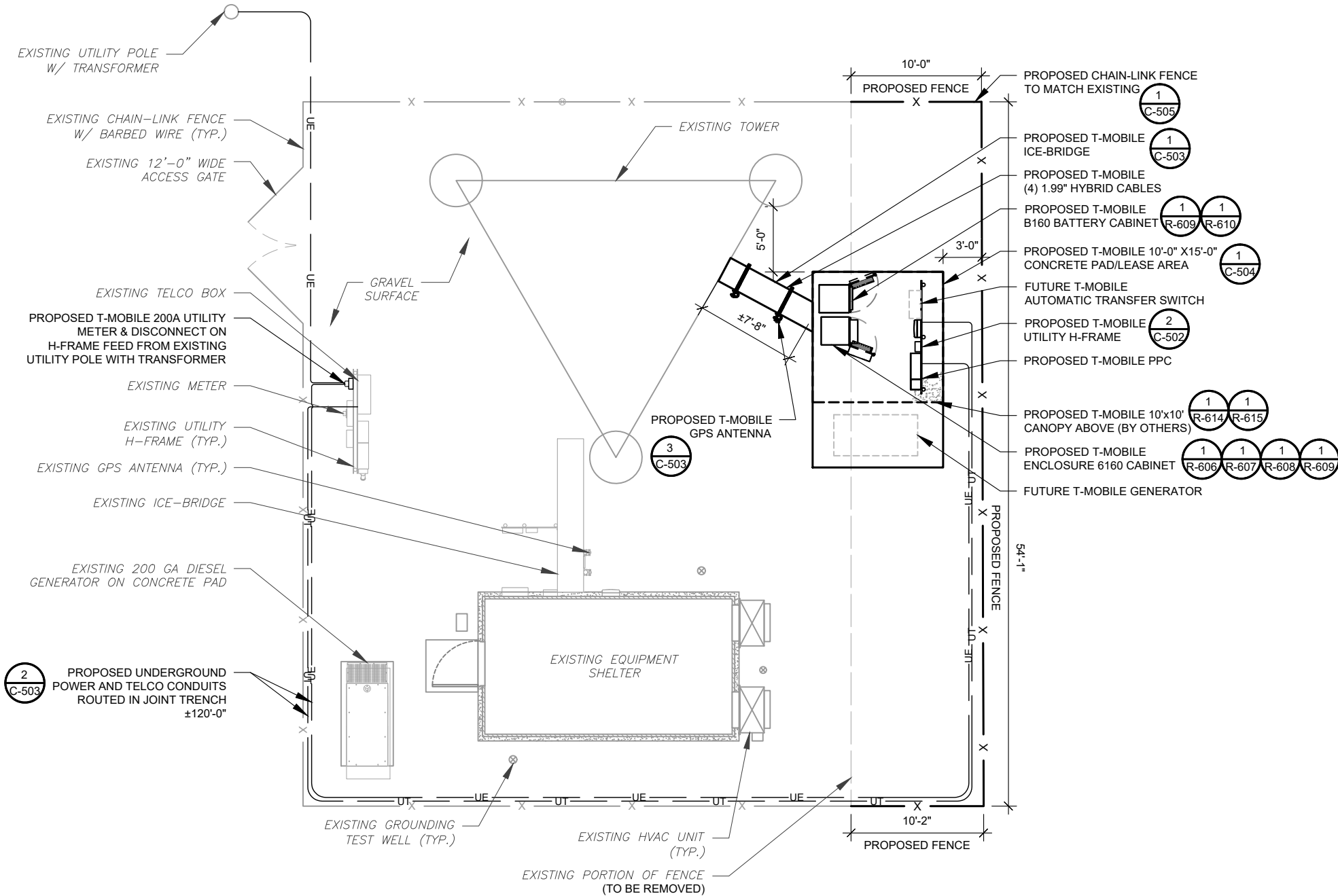
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COMPOUND PLAN NOTES:

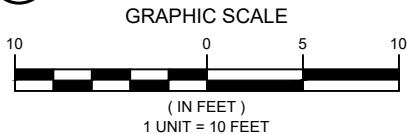
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	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
T	TELCO
TRN	TRANSFORMER
—	CHAINLINK FENCE



1 DETAILED COMPOUND PLAN



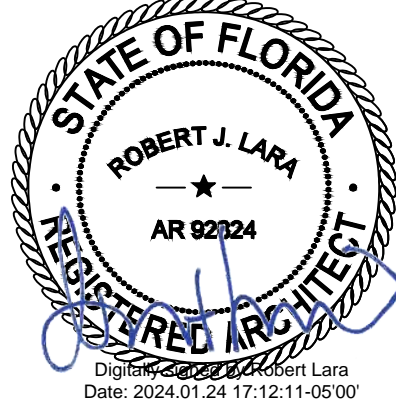
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FL C OF A #8508
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C	FINALS	MS	01/19/24

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T-MOBILE SITE NAME:
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SITE ADDRESS:
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LAKE CITY, FL 32024

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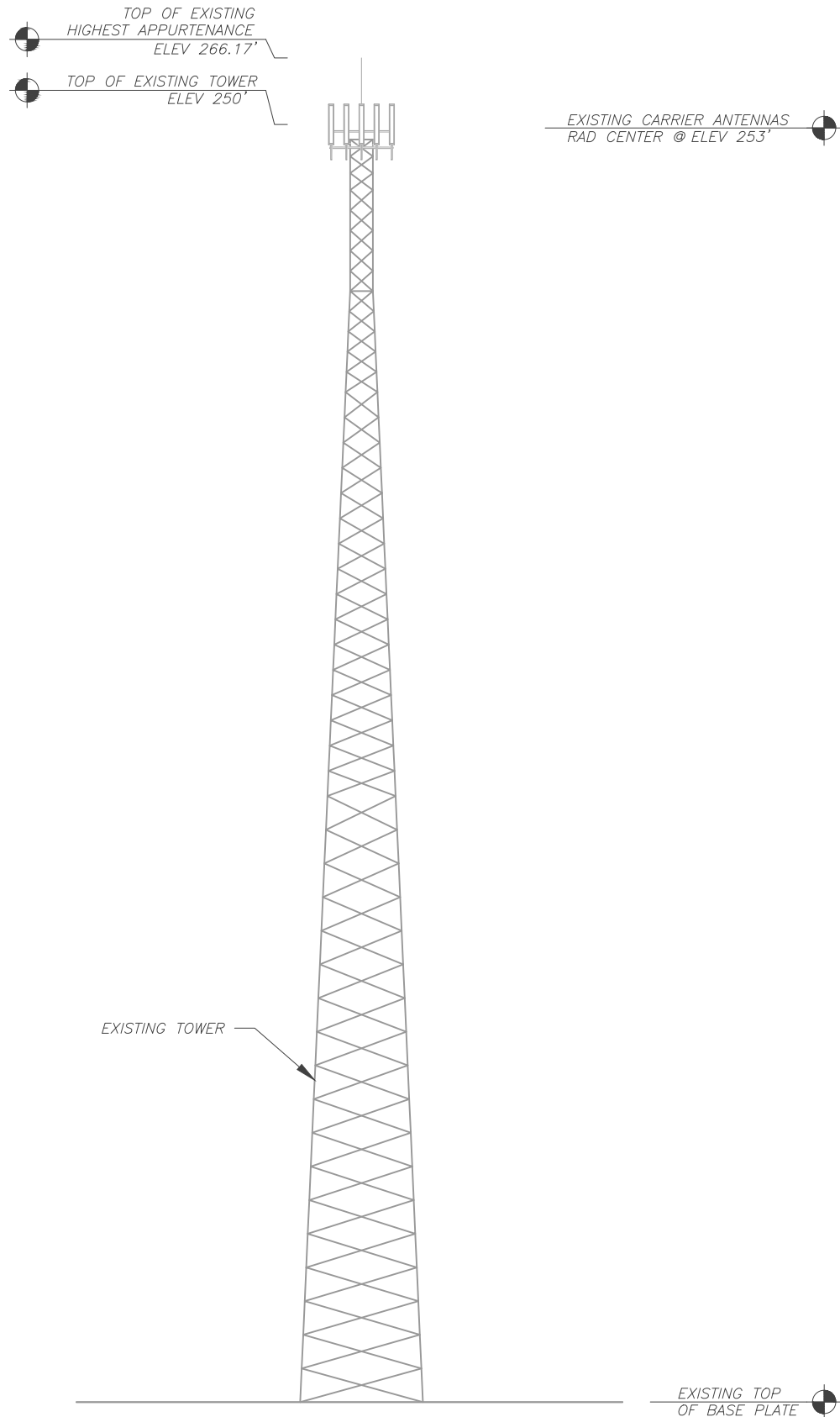


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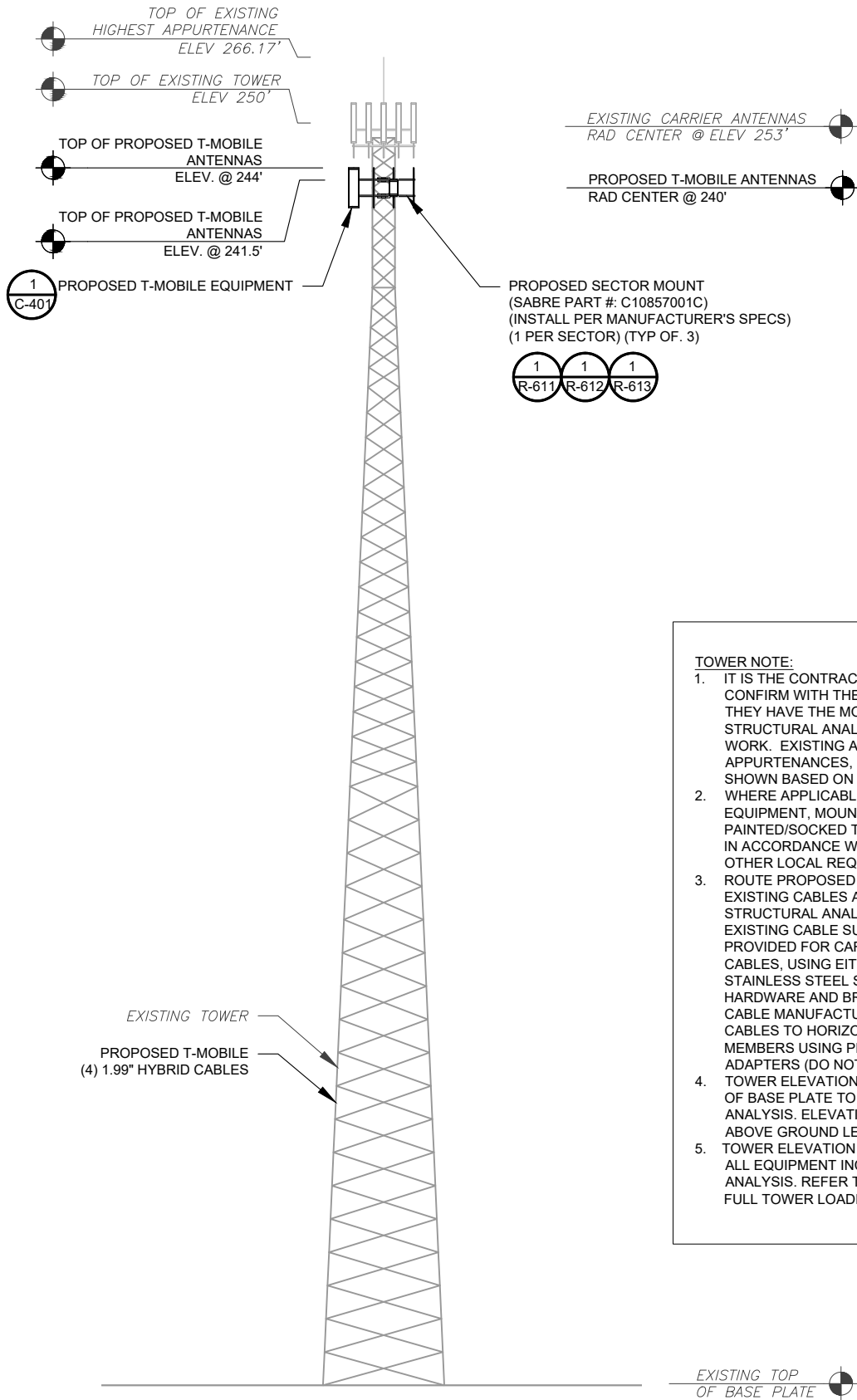
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DETAILED COMPOUND PLAN

SHEET NUMBER:	REVISION:
C-101	1



1 EXISTING TOWER ELEVATION
SCALE: N.T.S.



2 PORPOSED TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED 02/09/23, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO 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.
 - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 - 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 FULL TOWER LOADING.

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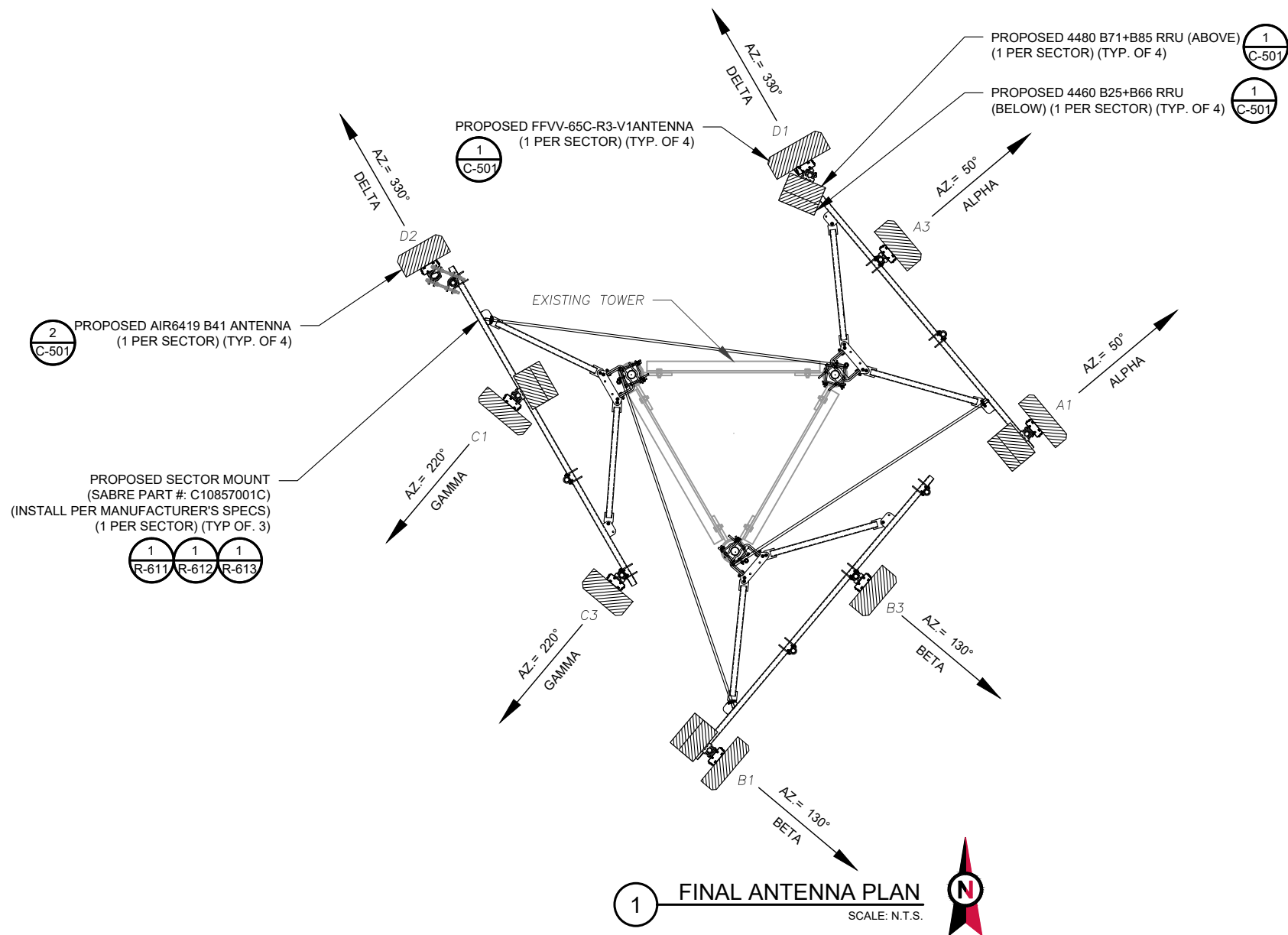
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DETAILED COMPOUND PLAN

SHEET NUMBER: C-201	REVISION: 1
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PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED 02/09/23, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

1 FINAL ANTENNA PLAN
SCALE: N.T.S.

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	(4) 1.99" HYBRID CABLES	
			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°/-	-		
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		
			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].									

2 ANTENNA SCHEDULE



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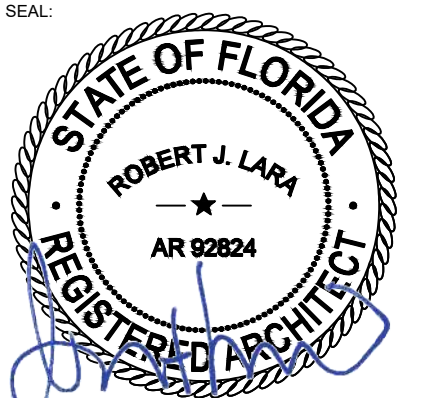
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417139

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T-MOBILE SITE NAME:
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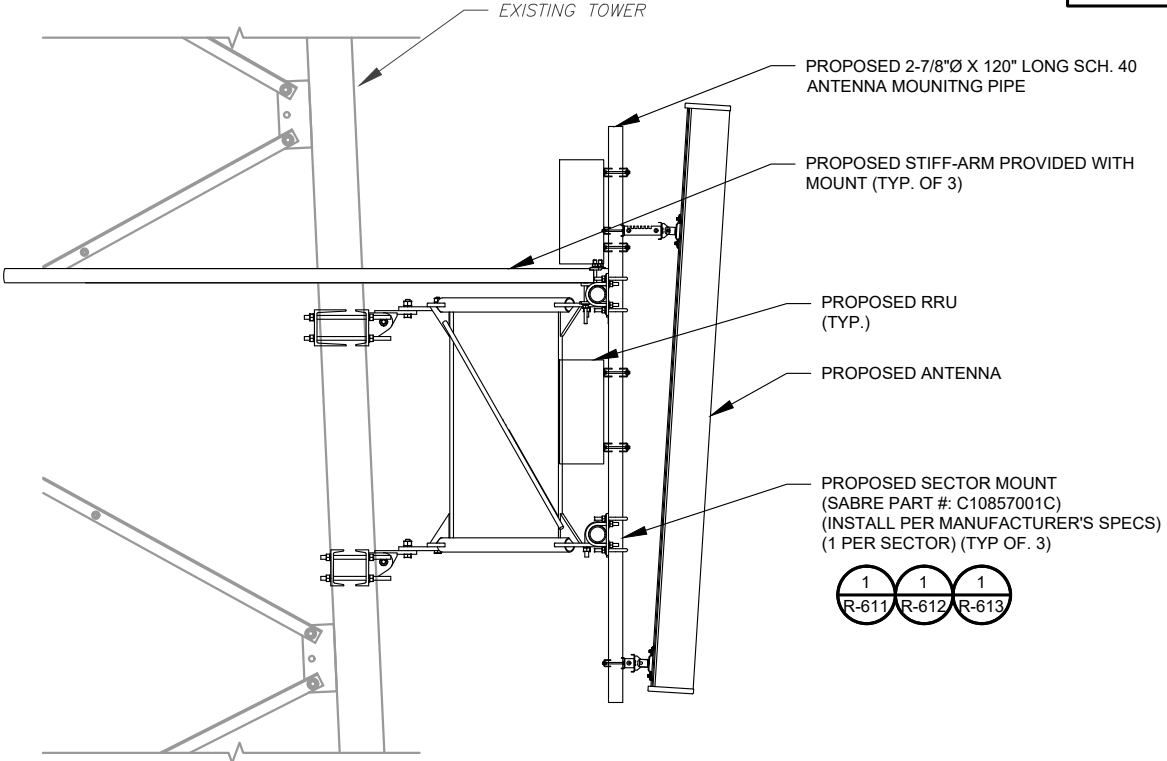
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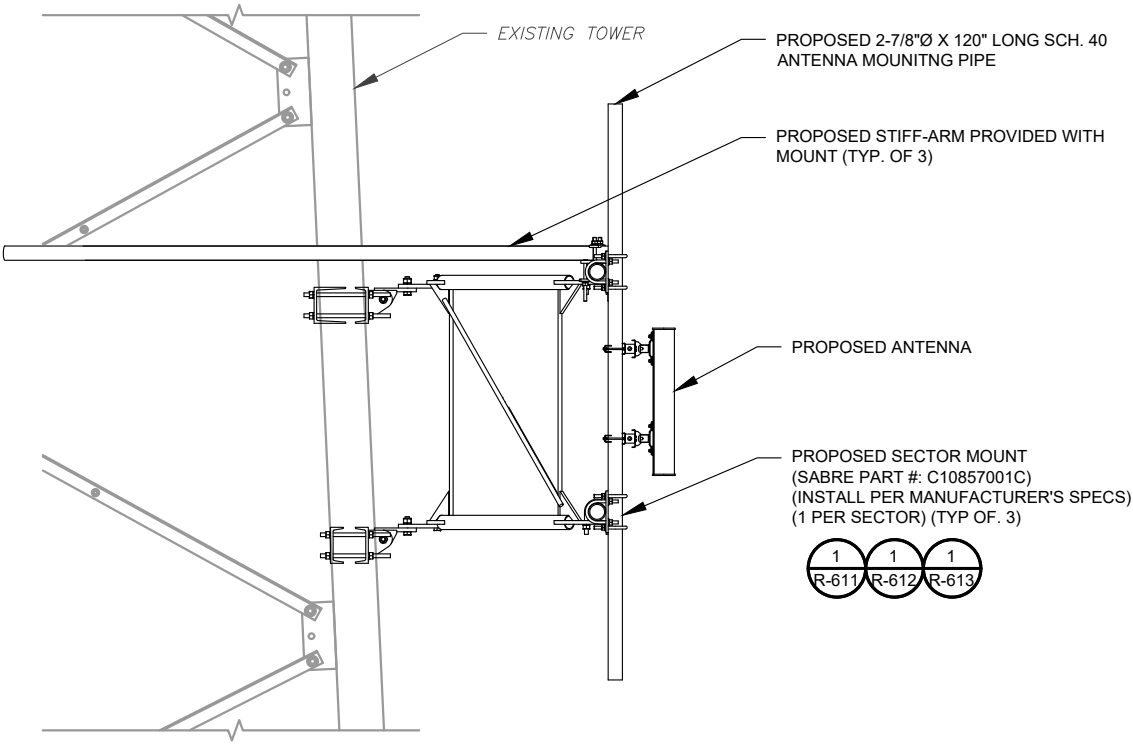
**ANTENNA INFORMATION
& SCHEDULE**

SHEET NUMBER:	REVISION:
C-401	1

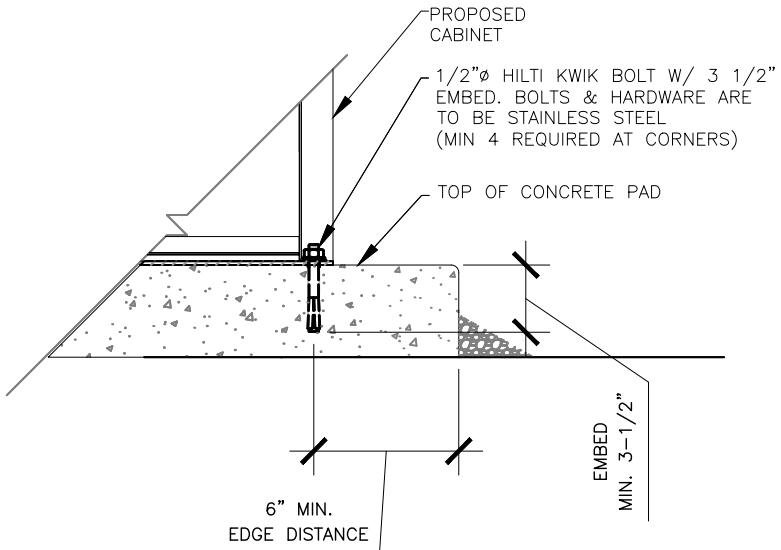
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1 PROPOSED ANTENNA AND RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



3 CABINET ANCHORING DETAIL
SCALE: N.T.S.

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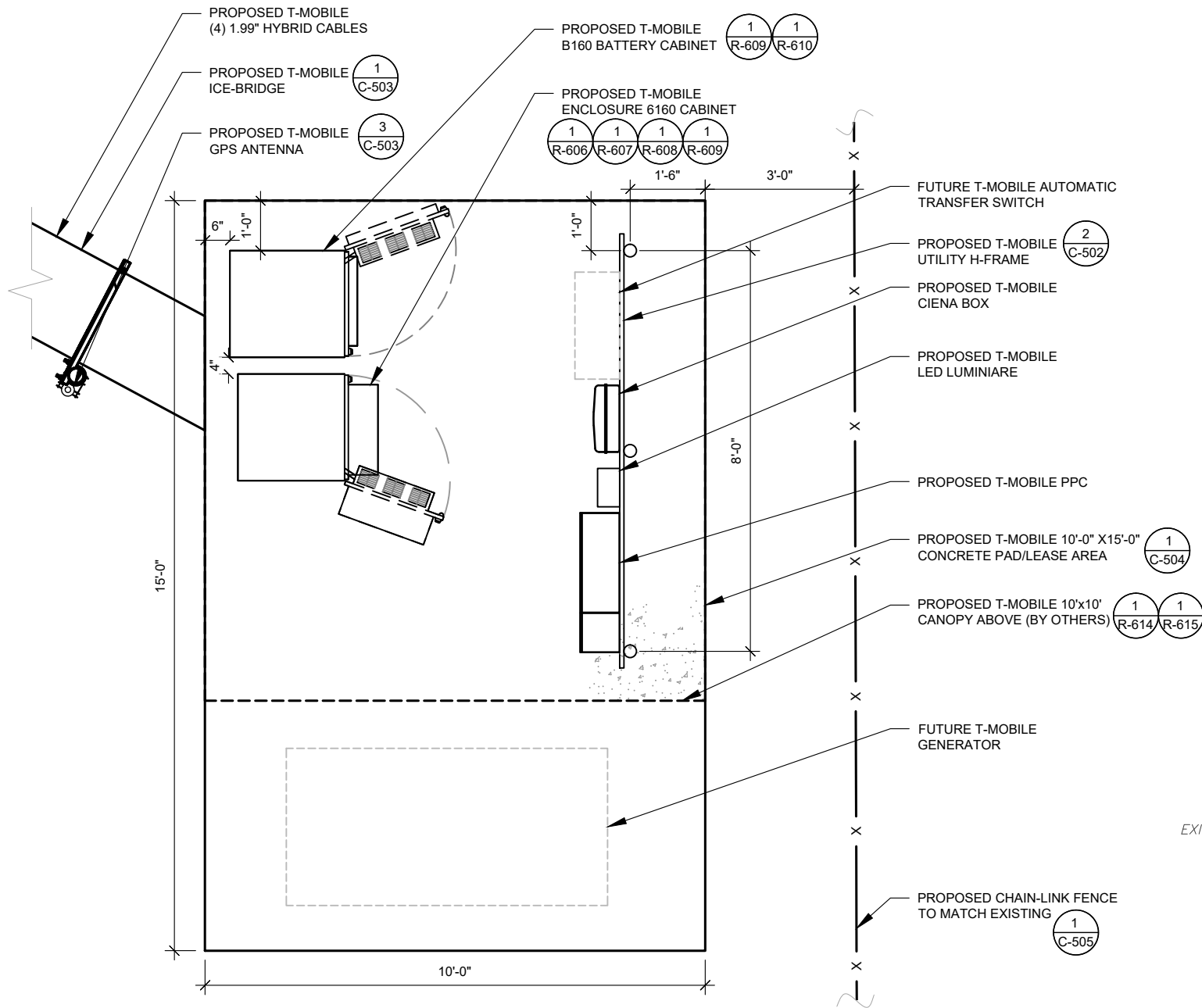
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**CONSTRUCTION
DETAILS**

SHEET NUMBER: C-501	REVISION: 1
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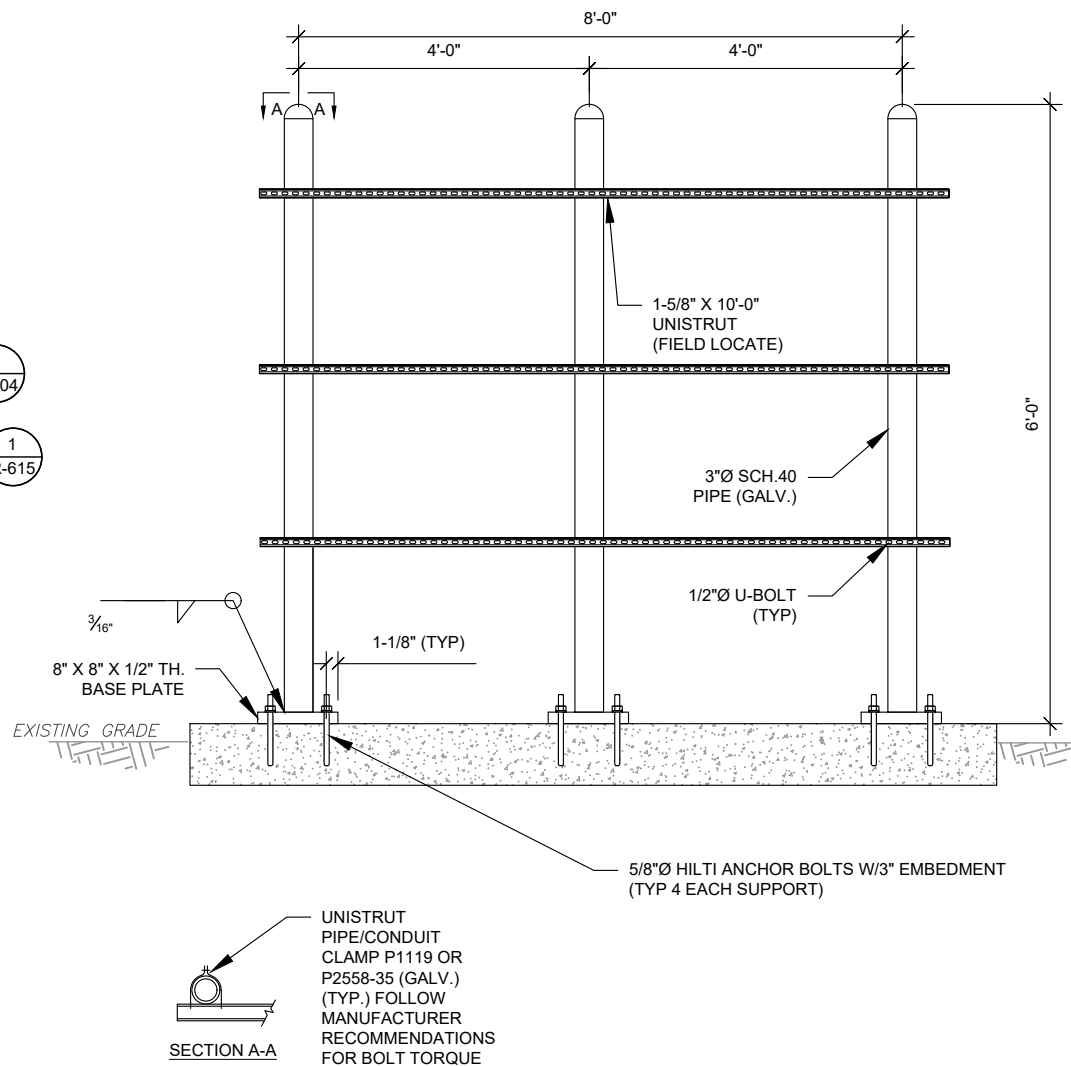
NOTE:
1. CABINETS SHALL BE ORIENTED AND INSTALLED EXACTLY AS SHOWN
2. WEIGHT OF BTS UNIT IS 1,060 LBS (WEIGHT IS WITHOUT EQUIPMENT)

1 DETAILED EQUIPMENT LAYOUT
SCALE: N.T.S.



H-FRAME NOTES:

- IF IT IS NECESSARY TO EXTEND THE H-FRAME, AN ADDITIONAL POST WILL ALWAYS BE REQUIRED.
- PROPOSED UNISTRUTS TO BE FIELD CUT AND SHOULD NOT EXTEND MORE THAN 6 INCHES BEYOND THE LAST POST.
- SPRAY ENDS OF UNISTRUT WITH COLD GALVANIZING SPRAY PAINT, ALLOW TO DRY, THEN COVER WITH RUBBER PROTECTIVE CAPS FOR SAFETY.
- UNISTRUT TO BE CUT FLUSH WITH NO SHARP OR JAGGED EDGES.
- ALL PROPOSED HARDWARE TO BE MOUNTED PER MANUFACTURERS SPECS.



2 TYPICAL H-FRAME DETAIL
SCALE: NOT TO SCALE



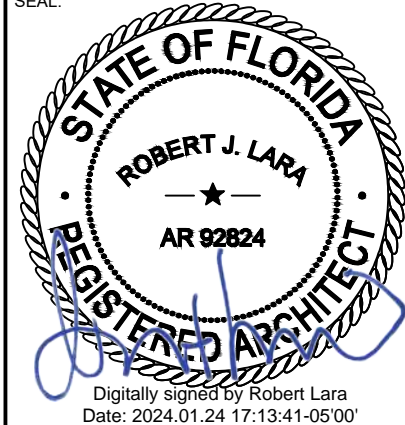
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DETAILS

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C-502	1

1 WAVEGUIDE BRIDGE KIT

2 TELCO AND POWER CONDUIT JOINT TRENCH

3 GPS ANTENNA ATTACHMENT DETAIL



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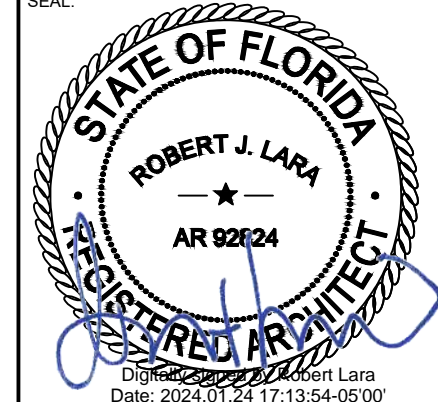
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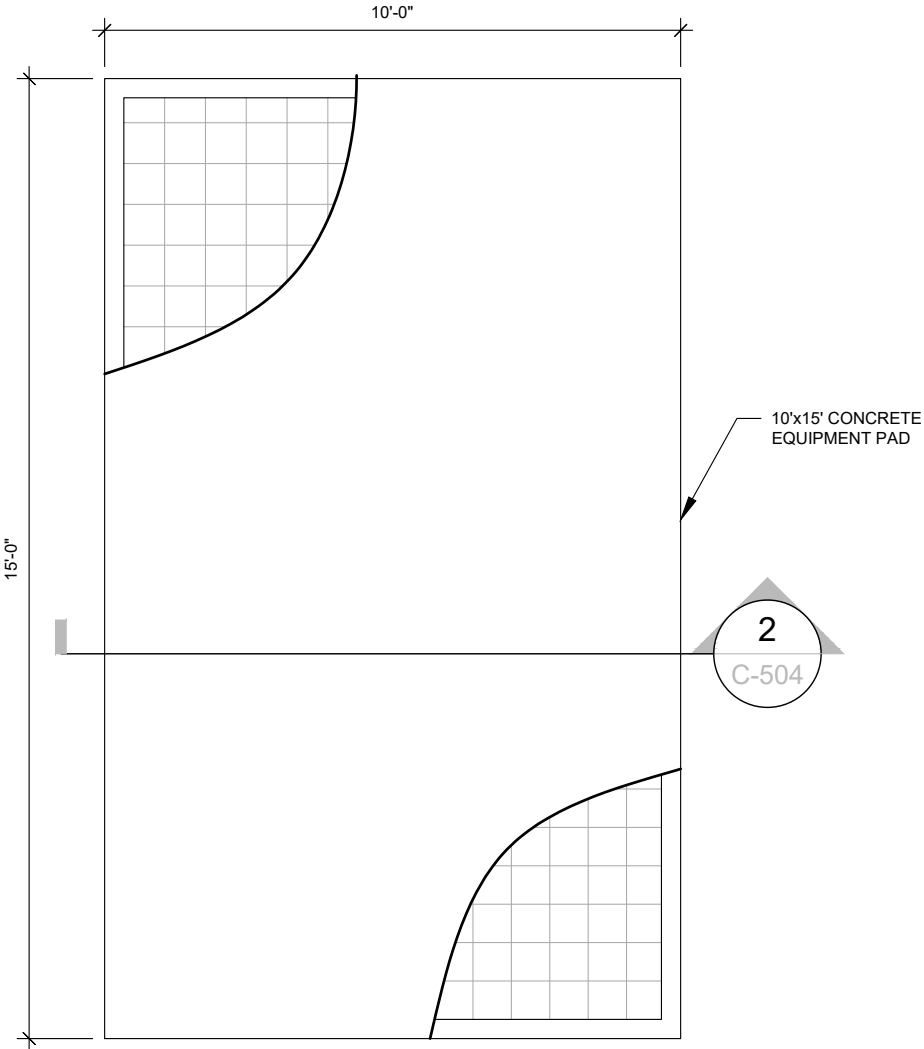
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CONTRACTOR NOTES:

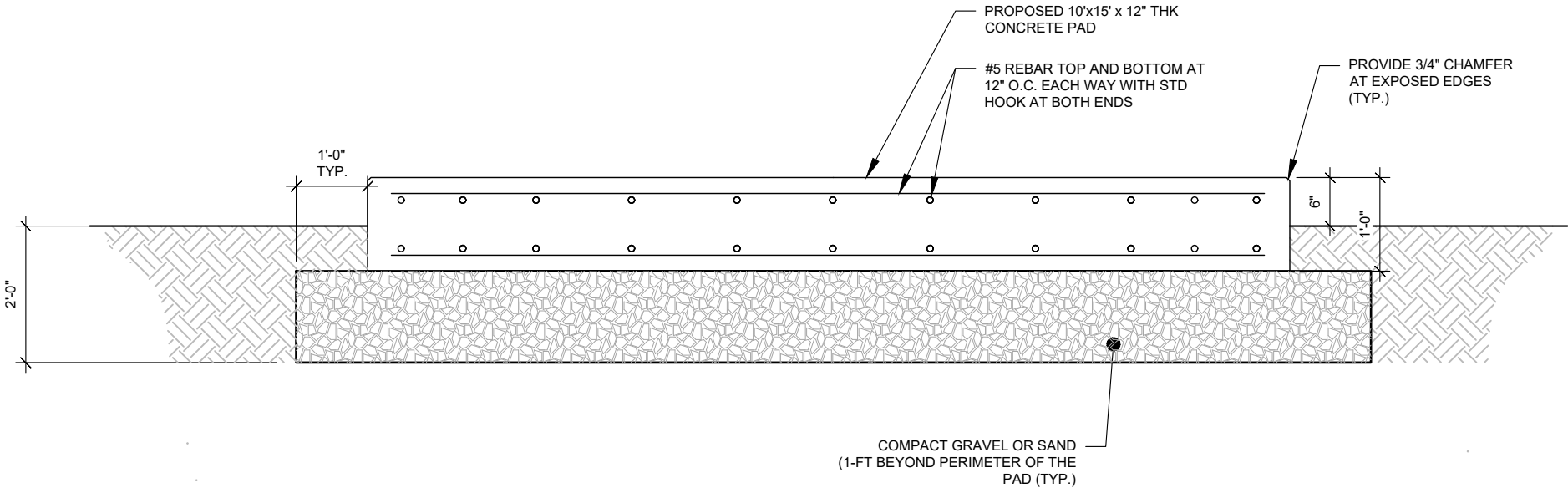
- ALL CONCRETE FOR SLAB FOUNDATION SHALL BE 3000 P.S.I. (MIN.)
- IF BUILDER SET DATE WILL BE WITHIN 24 HRS OF SLAB POUR THEN SITE CONTRACTOR SHALL USE 5000 P.S.I. CONCRETE (MIN.) TO OBTAIN MIN. 1800 P.S.I. CONCRETE WITHIN THE ALLOTTED 48 HOURS. (NO EXCEPTIONS)
- ELECTRICAL CONTRACTOR SHALL COORDINATE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

FOUNDATION NOTES:

- 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".
- CONCRETE SLUMP SHALL RANGE BETWEEN 4 INCHES TO 8 INCHES.
- 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.
- 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. 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.
- WELDING OF REINFORCING BARS AND DOWEL BARS IS PROHIBITED UNLESS OTHERWISE APPROVED BY ENGINEER.
- PRIOR TO THE EXCAVATION, CHECK AREA FOR LOCATION OF UNDERGROUND PIPES, CABLES, ETC.



1 CONCRETE PAD LAYOUT
SCALE: NOT TO SCALE



2 CONCRETE PAD SECTION
SCALE: NOT TO SCALE



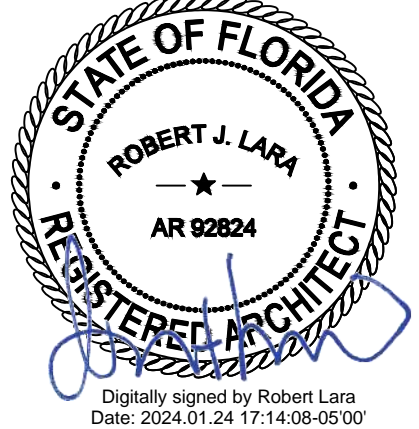
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B	FINALS	MS	02/06/23
1	FINALS	MS	01/19/24

ATC SITE NUMBER:

417139

ATC SITE NAME:

COLUMBIA (CHARLES) FL

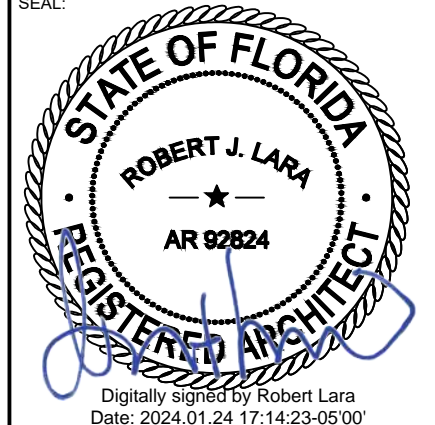
T-MOBILE SITE NAME:

9JK2817A (USA)

SITE ADDRESS:

CHARLES TERRACE
LAKE CITY, FL 32024

SEAL:



Digitally signed by Robert Lara
Date: 2024.01.24 17:14:23-05'00'

T Mobile

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

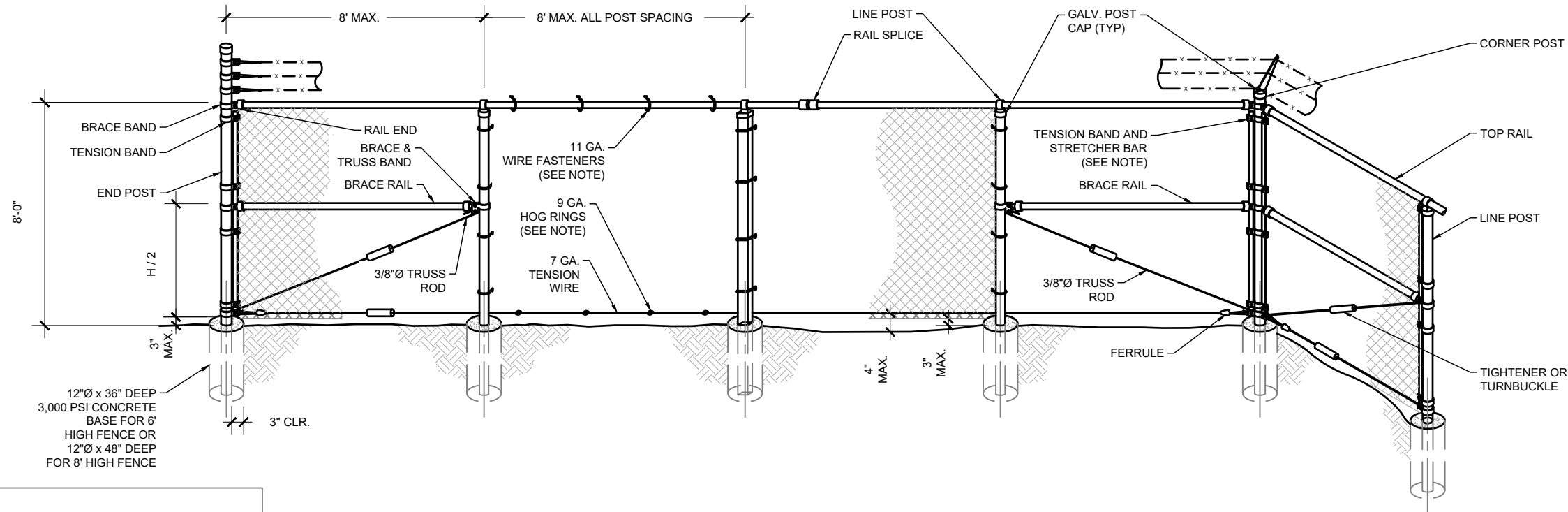
FENCE DETAILS

SHEET NUMBER:

C-505

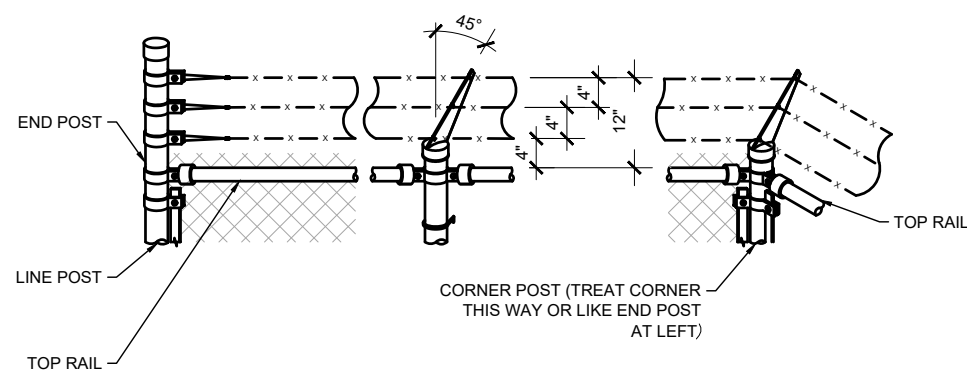
REVISION:

1



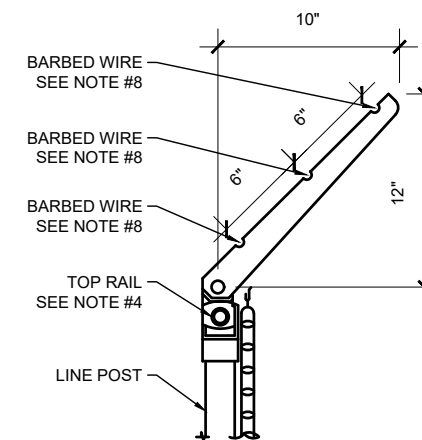
NOTE:
ATTACH FABRIC TO ALL FENCE AND GATE STRUCTURES AT 12" INTERVALS VERTICALLY AND AT 20" INTERVALS HORIZONTALLY.

1 FENCE DETAIL
SCALE: NOT TO SCALE



NOTES:
1. SLOPE TOP OUT OF COMPOUND AT 45°.
2. BARBED WIRE OVER GATES SHALL NOT BE SLOPED.

2 BARBED WIRE TOP DETAIL
SCALE: NOT TO SCALE



- GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 2 7/8"Ø SCHEDULE 40 PIPE FOR GATE WIDTHS UPTO 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
- LINE POST: 2 3/8"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- GATE FRAME: 1 1/2"Ø SCHEDULE 40 PIPE PER ASTM-F1083 & ASTM F900.
- TOP RAIL & BRACE RAIL: 1 3/8"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- FABRIC: 2" MESH No. 9 GAGE GALVANIZED WIRE SECURELY FASTENED TO TENSION WIRE, LINE POST, BARS CONFORMING TO ASTM-A392, & AASHTO M 181.
- TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL. INSTALL A SINGLE WRAP TIE WIRE AT POSTS AND RAILS AT MAX. 12" INTERVALS VERT & 20" HORIZ. INSTALL HOG RINGS ON TENSION WIRE AT 20" INTERVALS.
- TENSION WIRE: 7 GA. GALVANIZED STEEL.
- BARBED WIRE: 3 STRANDS OF DOUBLE STRANDED 12 1/2 GAUGE TWISTED WIRE, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS CONFORMING TO AASHTO M 280.
- LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
- INSTALL FENCING PER CURRENT BUILDING CODE.

3 BARBED WIRE SUPPORT DETAIL
SCALE: NOT TO SCALE

GROUNDING NOTES:

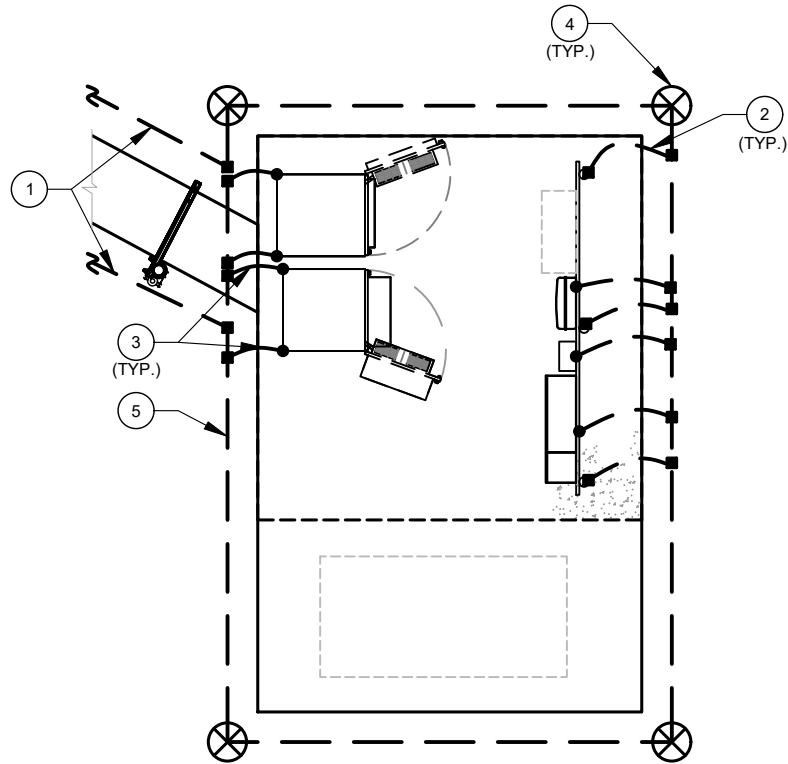
1. ALL EQUIPMENT ENCLOSURES, DEVICES AND CONDUITS SHALL BE GROUNDED TO CONFORM WITH THE LATEST REQUIREMENTS OF THE NEC BY THE INSTALLATION OF A SEPARATE, GREEN, INSULATED GROUND CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS. GROUND CONDUCTORS SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS. GROUND CONDUCTORS 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.
 - C. 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.
2. 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 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 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.
5. 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

PROPOSED 200/2 SERVICE MAIN BREAKER SUITABLE AND LISTED FOR THE APPLICATION.

PROPOSED GROUND ELECTRODE CONDUCTOR BONDED TO MIN. (2) 5/8" DIA. x 8'-0" L COPPER CLAD GROUND RODS SPACED A MIN. OF 6'-0" APART AND BONDED TO GROUND RING

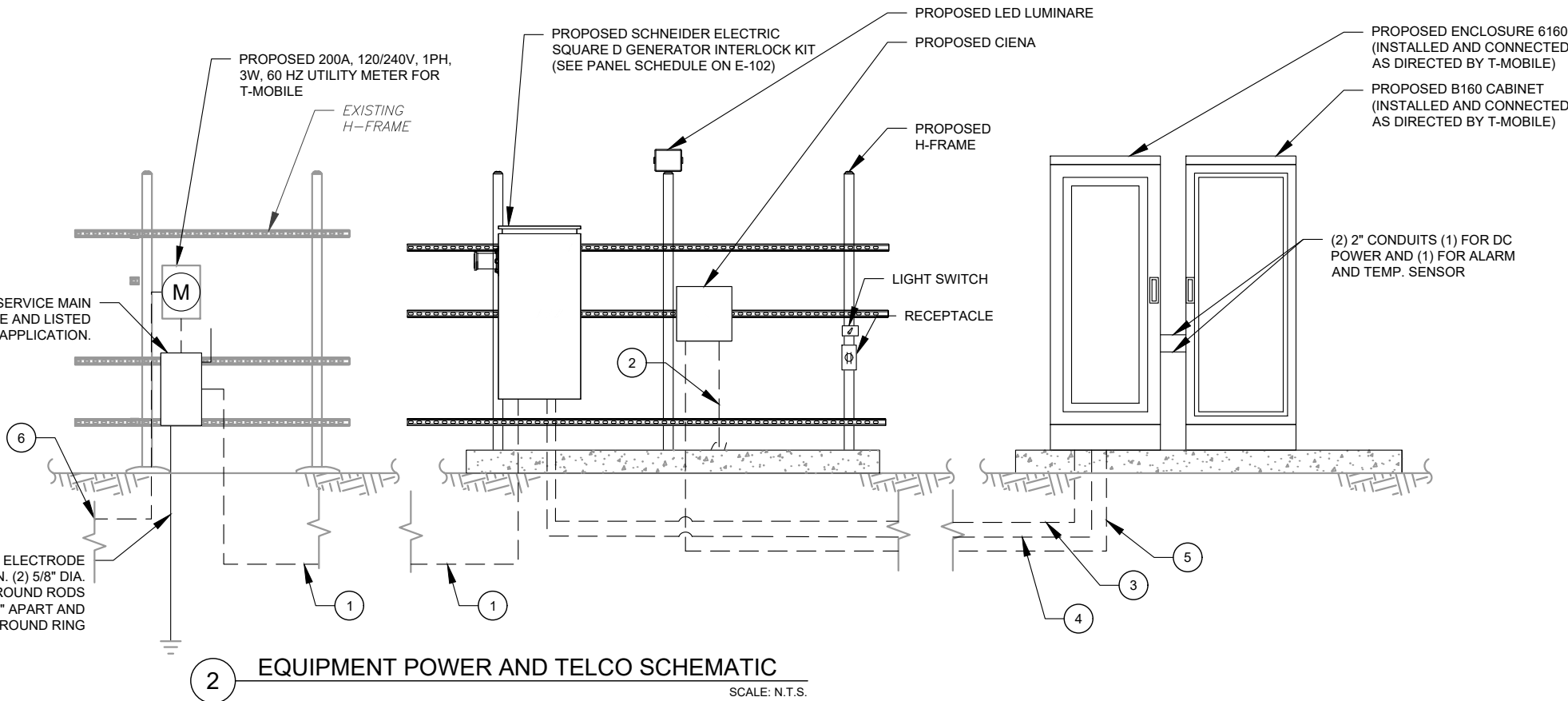


1 DETAILED GROUNDING PLAN
SCALE: N.T.S

GROUNDING PLAN LEGEND:			
	EXISTING GROUND WIRE		5/8"Ø X 10' COPPER GROUND ROD
	GROUND WIRE		TEST WELL
	EXOTHERMIC WELD		
	MECHANICAL WELD		

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).
- 3 #2 AWG SBTC EQUIPMENT BOND TO GROUND RING (TYP.)
- 4 5/8Ø" X 10 FT GROUND ROD.
- 5 #2 AWG SBTC GROUND RING.



2 EQUIPMENT POWER AND TELCO SCHEMATIC
SCALE: N.T.S.



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
A	PRELIM	NY	01/10/23
B	FINALS	MS	02/06/23
C	FINALS	MS	01/19/24

ATC SITE NUMBER:

417139

ATC SITE NAME:

COLUMBIA (CHARLES) FL

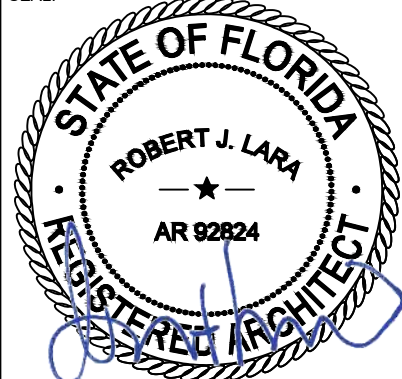
T-MOBILE SITE NAME:

9JK2817A (USA)

SITE ADDRESS:

CHARLES TERRACE
LAKE CITY, FL 32024

SEAL:



Digitally signed by Robert Lara
Date: 2024.01.24 17:14:37-05'00'

T Mobile

MH PROJ NO: 220329500

ATC PROJ. #: 14192636

CUST. ID: 9JK2817A (USA)

CUST. #: 9JK2817A

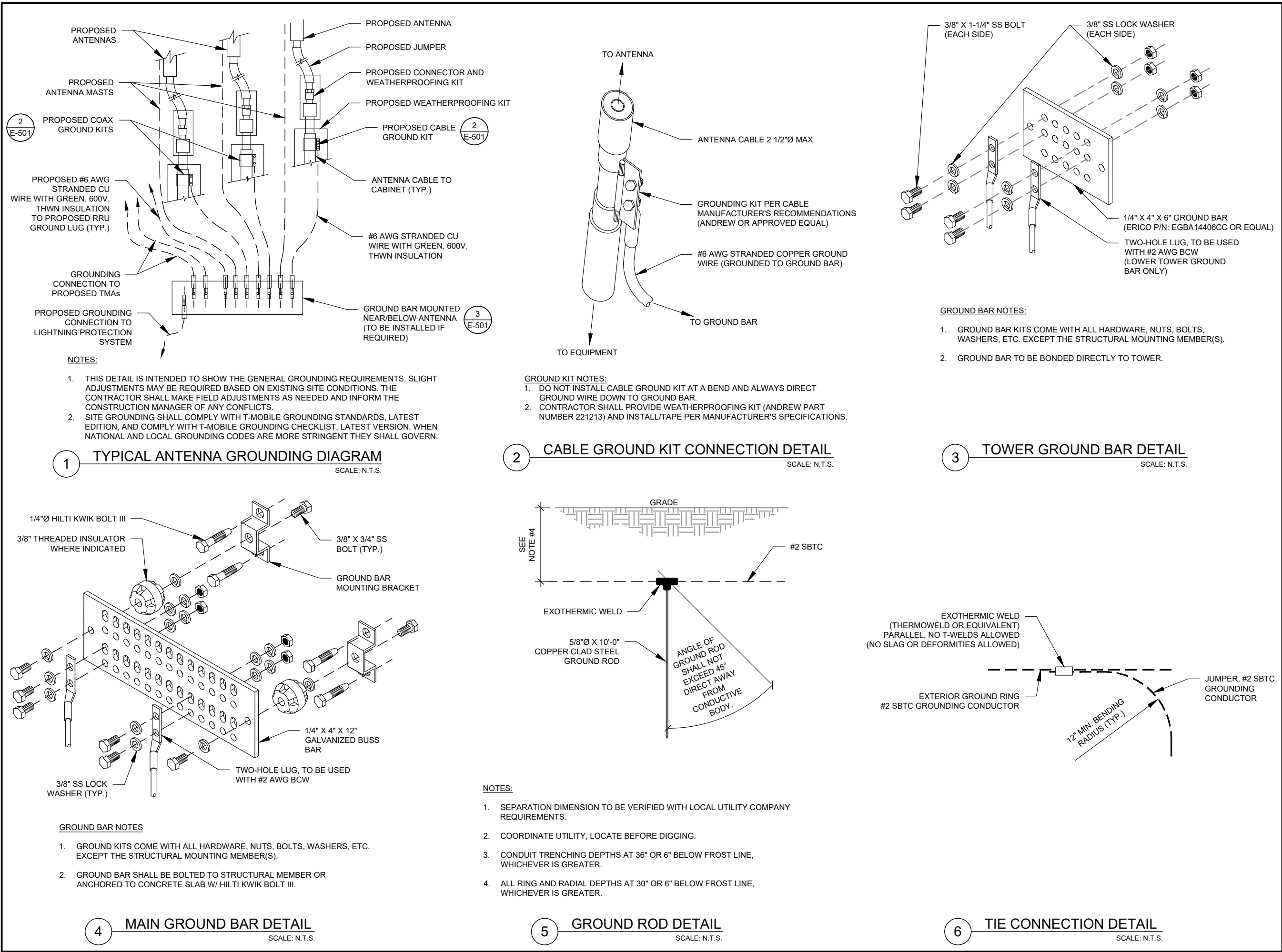
GROUNDING DETAILS &
ELECTRICAL SCHEMATIC



SHEET NUMBER:

E-101

REVISION:

1





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
A	PRELIM	NY	01/10/23
B	FINALS	MS	02/06/23
C	FINALS	MS	01/19/24

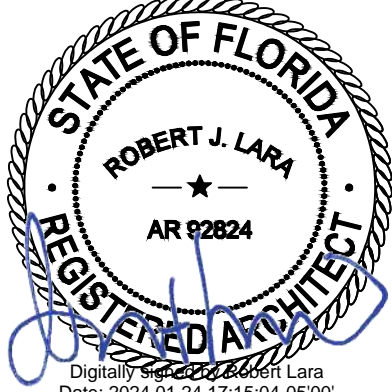
ATC SITE NUMBER:
417139

ATC SITE NAME:
COLUMBIA (CHARLES) FL


T-MOBILE SITE NAME:
9JK2817A (USA)

SITE ADDRESS:
CHARLES TERRACE
LAKE CITY, FL 32024

SEAL:



Robert J. Lara
REGISTERED ARCHITECT
AR 92824
Digitally signed by Robert J. Lara
Date: 2024.01.24 17:15:04-05'00'



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

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 1
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RAN Template:
4Sec-67E5D998E 6160 (no GSM)

A&L Template:
4Sec-67E5998E_1xAIR+1OP

9JK2817A_Coverage Strategy_1

Print Name: Standard

PORs: Coverage Strategy_Regional Coverage

Section 1 - Site Information

Site ID: 9JK2817A

Status: ReadyForReview

Version: 1

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

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

Longitude: -82.760058

Address: Charles Terrace

City, State: Charles Terrace, FL

Region: SOUTH

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

AL Template: 4Sec-67E5998E_1xAIR+1OP

Sector Count: 4

Antenna Count: 8

Coax Line Count: 0

TMA Count: 0

RRU Count: 8

Section 2 - Existing Template Images

1 RFDS HEADER
SCALE: NOT TO SCALE

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

A&L Template:
4Sec-67E5998E_1xAIR+1OP

9JK2817A_Coverage Strategy_1

Print Name: Standard

PORs: Coverage Strategy_Regional Coverage

Section 6 - A&L Equipment

Existing Template: Custom
Proposed Template: 4Sec-67E5998E_1xAIR+1OP

Sector 1 (Proposed) view from front (Note: the images show view from behind)

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	Commscope - FFV4-65C-R3-V1 (Octo)			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 N600	L700 N600	L2100 N1900	L2100 N1900	N2500	N2500
Dark Tech						
Restricted Tech						
Decomm. Tech						
E. Tilt						
Cables	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)		
TMA's						
Diplexer / Combiners						
Radio	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B25+B85 (At Antenna)	Radio 4480 B25+B85 (At Antenna)	Radio 4480 B25+B85 (At Antenna)		
Sector Equipment						

Unconnected Equipment:

Scope of Work:

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

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

A&L Template:
4Sec-67E5998E_1xAIR+1OP

9JK2817A_Coverage Strategy_1

Print Name: Standard

PORs: Coverage Strategy_Regional Coverage

Sector 2 (Proposed) view from front (Note: the images show view from behind)

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	Commscope - FFV4-65C-R3-V1 (Octo)			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 N600	L700 N600	L2100 N1900	L2100 N1900	N2500	N2500
Dark Tech						
Restricted Tech						
Decomm. Tech						
E. Tilt						
Cables	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)	Coax Jumper (x2)		
TMA's						
Diplexer / Combiners						
Radio	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B25+B85 (At Antenna)	Radio 4480 B25+B85 (At Antenna)		
Sector Equipment						

Unconnected Equipment:

Scope of Work:

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

11/10/22, 9:53 AM

9JK2817A_Coverage Strategy_1_2022-11-10

RAN Template: 4Sec-67E5D988E 6160 (no GSM)	A&L Template: 4Sec-67E5998E_1xAIR+1OP
---	--

9JK2817A_Coverage Strategy_1

Print Name: Standard
PORs: Coverage Strategy_Regional Coverage

Sector 3 (Proposed) view from front (Note: the images show view from behind)

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	Commscope - FFVW-65C-R3-V1 (Octo)			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)		
TMA's						
Diplexer / Combiners						
Radio	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	Radio 4480 B25+B66 (At Antenna)		
Sector Equipment						
Unconnected Equipment:						
Scope of Work:						
*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.						

1

GAMMA SECTOR INFORMATION

SCALE: NOT TO SCALE

11/10/22, 9:53 AM

9JK2817A_Coverage Strategy_1_2022-11-10

RAN Template: 4Sec-67E5D988E 6160 (no GSM)	A&L Template: 4Sec-67E5998E_1xAIR+1OP
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9JK2817A_Coverage Strategy_1

Print Name: Standard
PORs: Coverage Strategy_Regional Coverage

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

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	Commscope - FFVW-65C-R3-V1 (Octo)			AIR 6419 B41 (Active Antenna - 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)		
TMA's						
Diplexer / Combiners						
Radio	Radio 4480 B71+B85 (At Antenna)	Radio 4480 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	Radio 4480 B25+B66 (At Antenna)		
Sector Equipment						
Unconnected Equipment:						
Scope of Work:						
*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.						

2

DELTA SECTOR INFORMATION

SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER:

R-602

REVISION:

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

11/10/22, 9:53 AM

9JK2817A_Coverage Strategy_1_2022-11-10

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

ASL Template:
4Sec-67E5998E_1xAIR+1CP

9JK2817A_Coverage Strategy_1

Print Name: Standard

PORs: Coverage Strategy_Regional Coverage

Section 5 - RAN Equipment

Existing RAN Equipment

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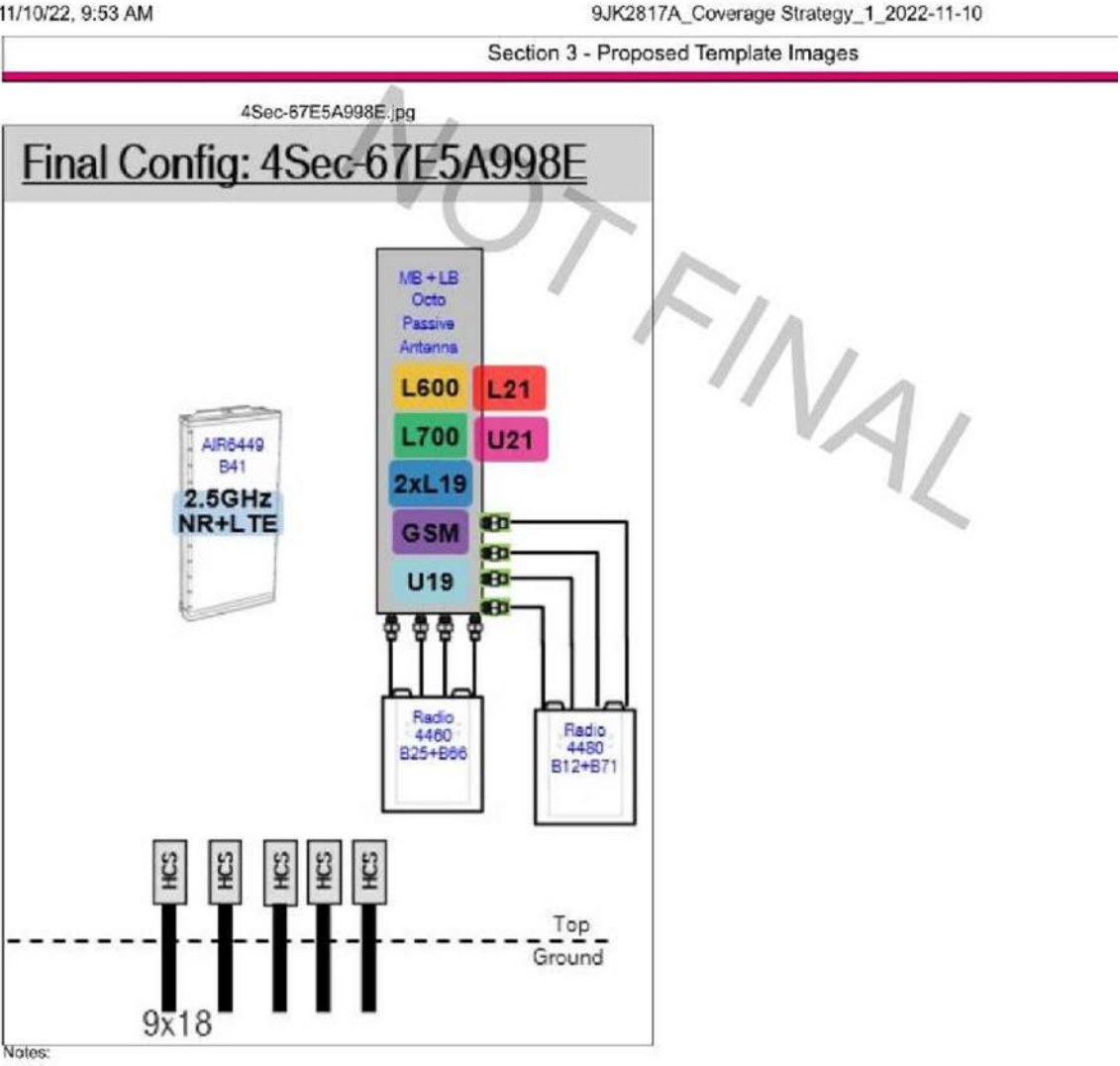
Proposed RAN Equipment

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

Enclosure	1	2
Enclosure Type	Enclosure 6160 AC V1	B160
Baseband	<div><div>RP 6651</div><div>N600</div><div>L600</div><div>L700</div></div> <div><div>RP 6651</div><div>N2500</div><div>L1900</div><div>L2100</div></div> <div><div>RP 6651</div><div>N1900</div><div>L1900</div><div>L2100</div></div>	
Transport System	CSR iXRe V2 (Gen2)	
Hybrid Cable System	Hybrid Trunk 6/24 4AWG 90m (x4)	PSU 4813 vR4A (48V) (x2)

RAN Scope of Work:

1 CABINET CONFIGURATION

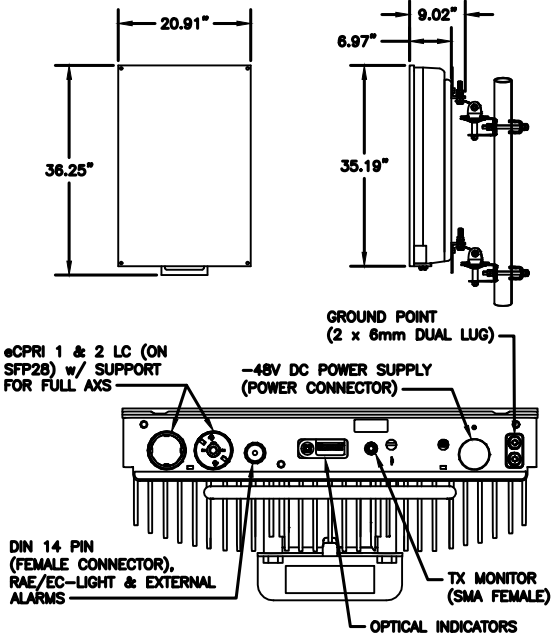


2 ANTENNA CONFIGURATION

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

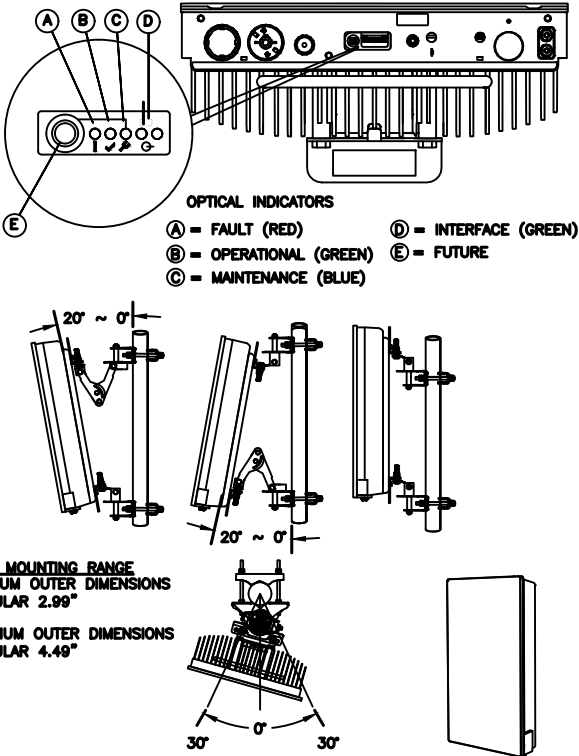
MANUFACTURER:	ERICSSON
MODEL:	AIR 6419 B41 (2.5GHz M-MIMO)
DIMENSIONS:	36.25" x 20.91" x 9.02" NOT TO EXCEED (H x W x D)
WEIGHT:	83 LBS (EXCLUDING MOUNTING KIT)
MOUNT WEIGHT:	13.5 LBS (SXK109 2016/1)



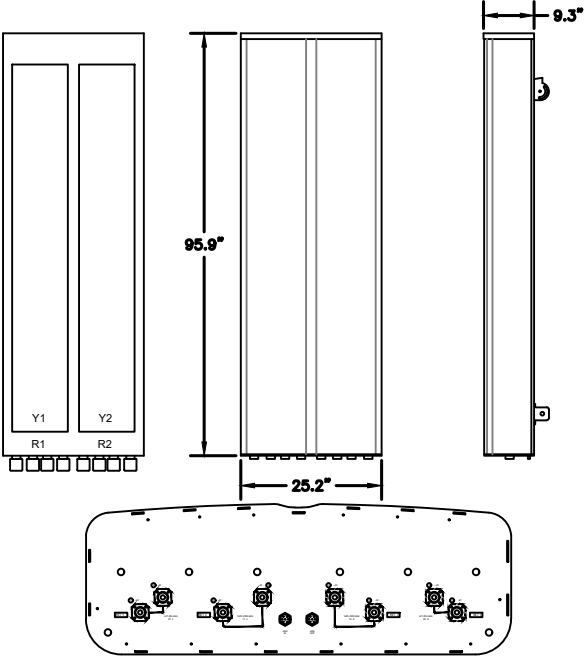
1

34552 - ERICSSON AIR 6419 BAND 41

SCALE: N.T.S.



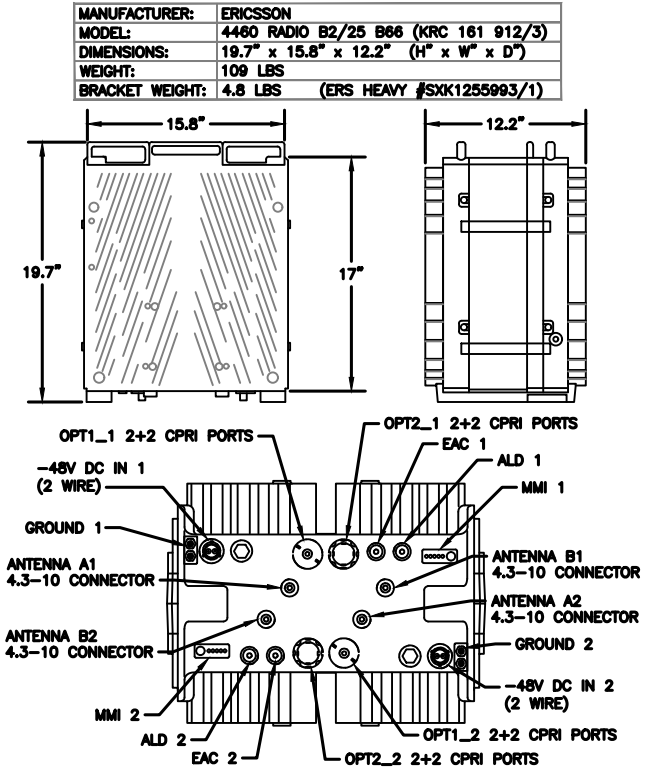
MANUFACTURER:	COMMSCOPE
MODEL:	FFV-65C-R3-V1 ANTENNA
DIMENSIONS:	95.9" x 25.2" x 9.3"
WEIGHT:	124.6 LB
BAND:	MULTIBAND (8 PORT)
MOUNTING KIT:	BSAMNT-4 & BSAMNT-M4 (INCLUDED)



2

34074 - COMMSCOPE FFV-65C-R3-V1

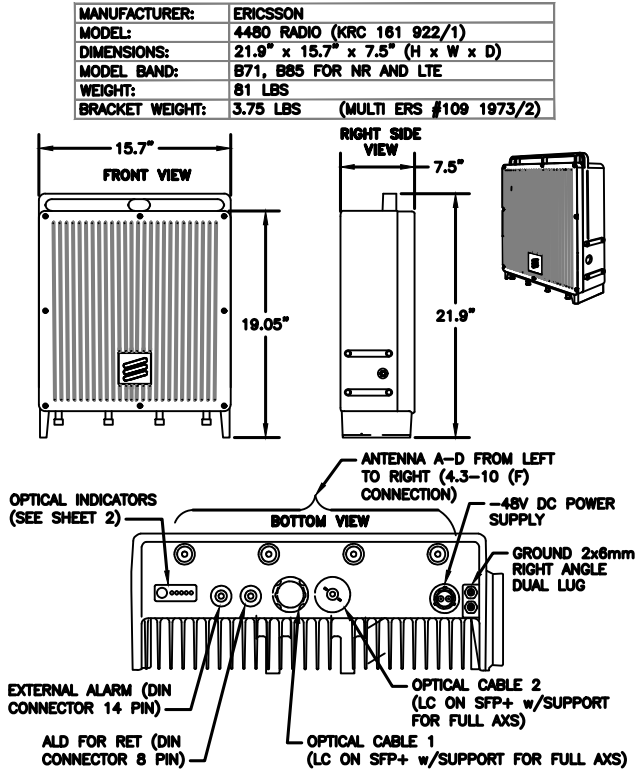
SCALE: N.T.S.



3

34373 - ERICSSON 4460 RADIO B2/25 B66

SCALE: N.T.S.



4

34372 - ERICSSON 4480 RADIO B71/85

SCALE: N.T.S.

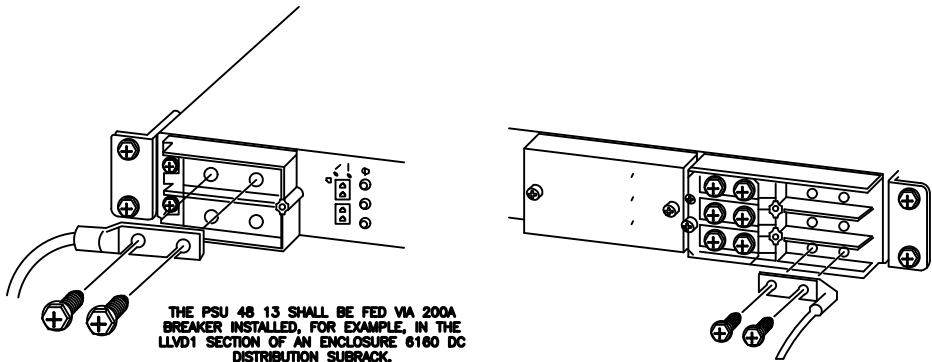
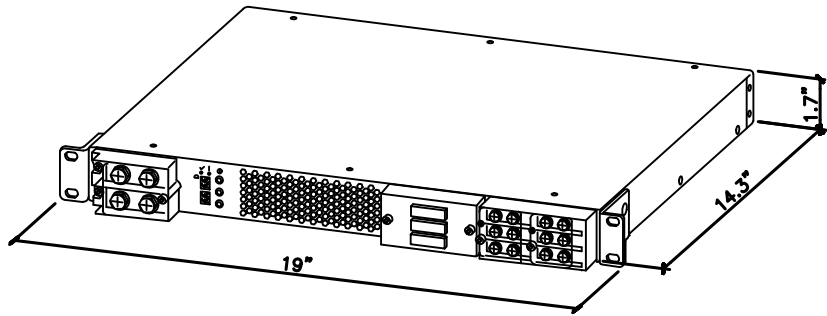
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: REVISION:

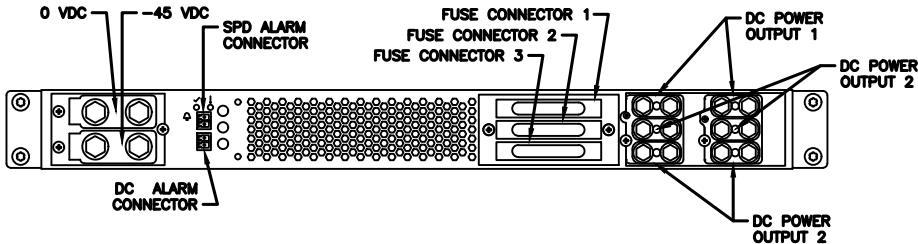
R-604

MANUFACTURER:	ERICSSON	NEEDED INSTALL KIT (PICK 1)
MODEL:	PSU 48 13	34133 PSU4813 INSTALL KIT FOR RBS61XX
WEIGHT:	17.1 LBS	34134 PSU4813 INSTALL KIT FOR PBC6200
DIMENSIONS:	19"x 1.7"x 14.3"	34135 PSU4813 INSTALL KIT FOR 6X60/RBS6230



THE PSU 48 13 SHALL BE FED VIA 200A BREAKER INSTALLED, FOR EXAMPLE, IN THE LLVD1 SECTION OF AN ENCLOSURE 6180 DC DISTRIBUTION SUBRACK.

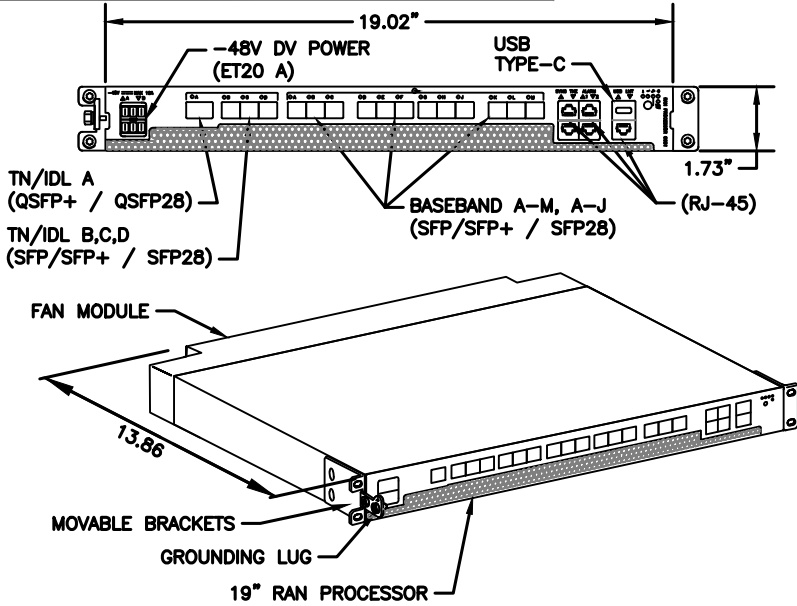
CONNECT -58 VDC DISTRIBUTION CABLE TO TERMINAL AT THE RIGHT, WHICH WILL BE FED TO RRU/AIR AT THE OTHER END.



1 SKU# 34132 - PSU 48 13

SCALE: N.T.S.

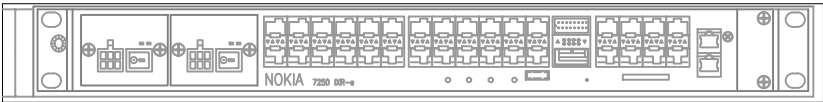
MANUFACTURER:	ERICSSON
MODEL:	6651 RAN PROCESSOR (KDU1370093/11)
DIMENSIONS:	1.73" X 19.02" X 13.86" (H" X W" X D")
WEIGHT:	16.98 LBS



2 ERICSSON 6651 RAN PROCESSOR

SCALE: N.T.S.

NOKIA
IXR-E MODULE
17.25"x10.0"x1.75" (HxWxD)
TBD



3 IXRE

VPSCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

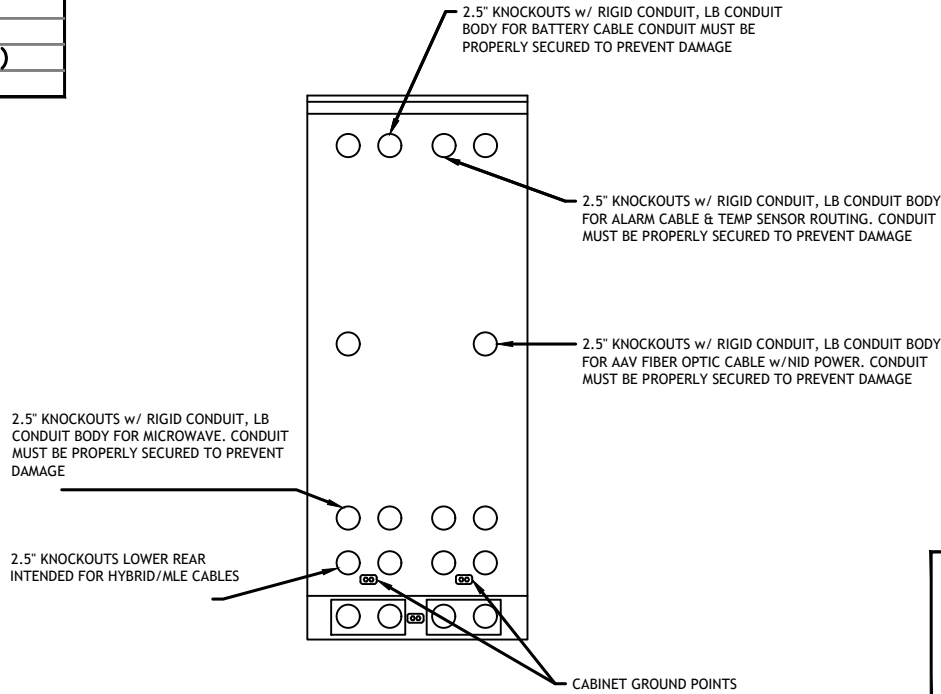
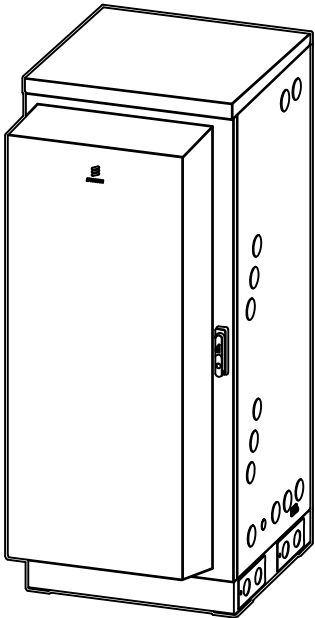
SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

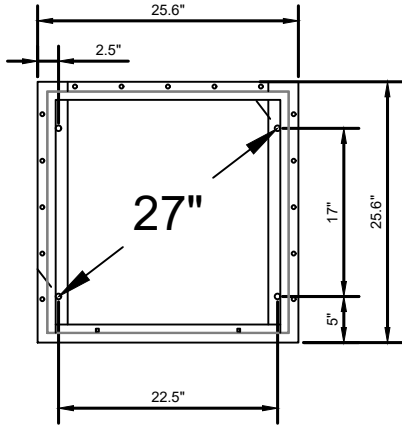
MANUFACTURER:	ERICSSON
MODEL:	6160 SITE SUPPORT CABINET
DIMENSIONS:	63" x 25.6" x 33.6" (H x W x D)
WEIGHT:	373 LBS



REAR VIEW

NOTE:

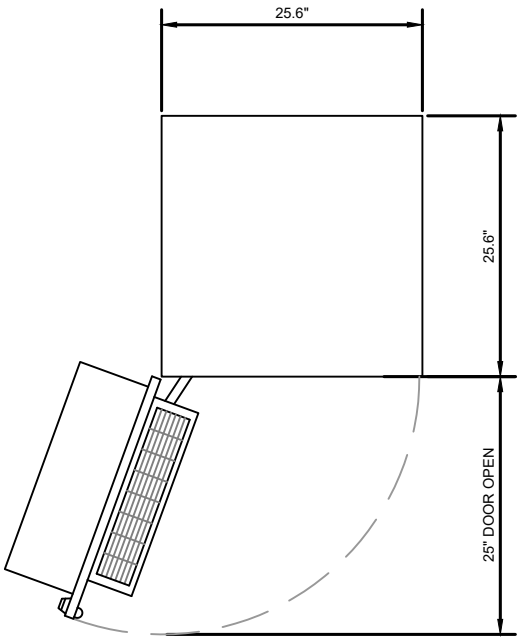
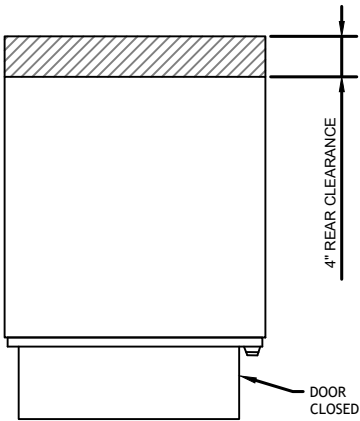
- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS
- CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING



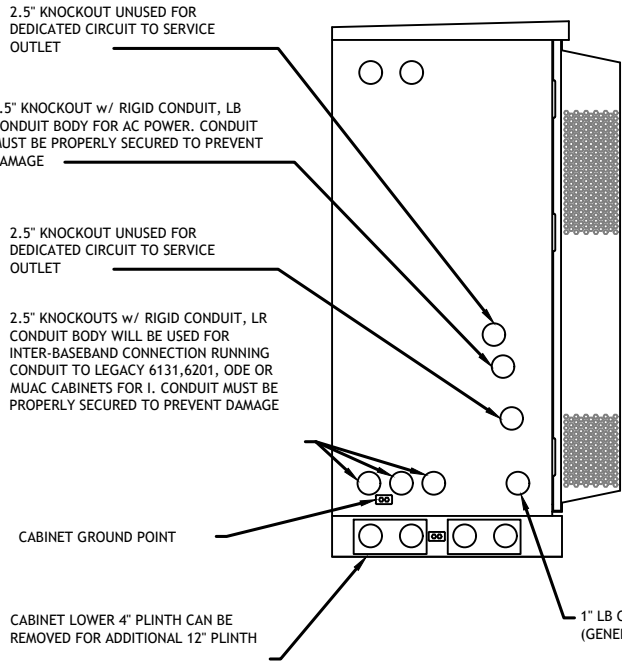
BOLT DOWN PATTERN

GROUNDING NOTE:

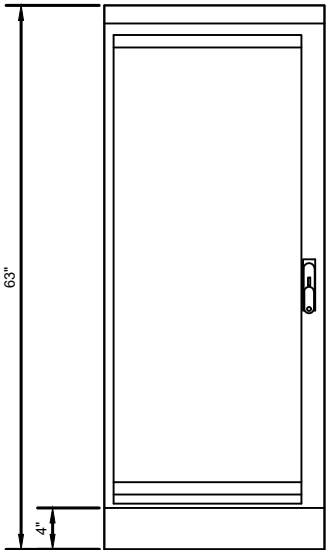
“CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1” C-C, LONG BARREL, WINDOW LUG, IN 3/4” LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED.”



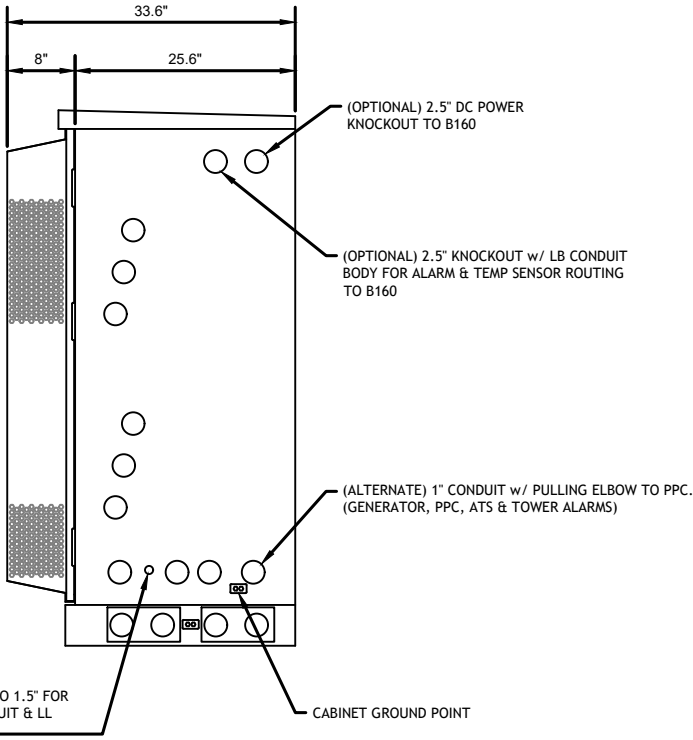
PLAN VIEW



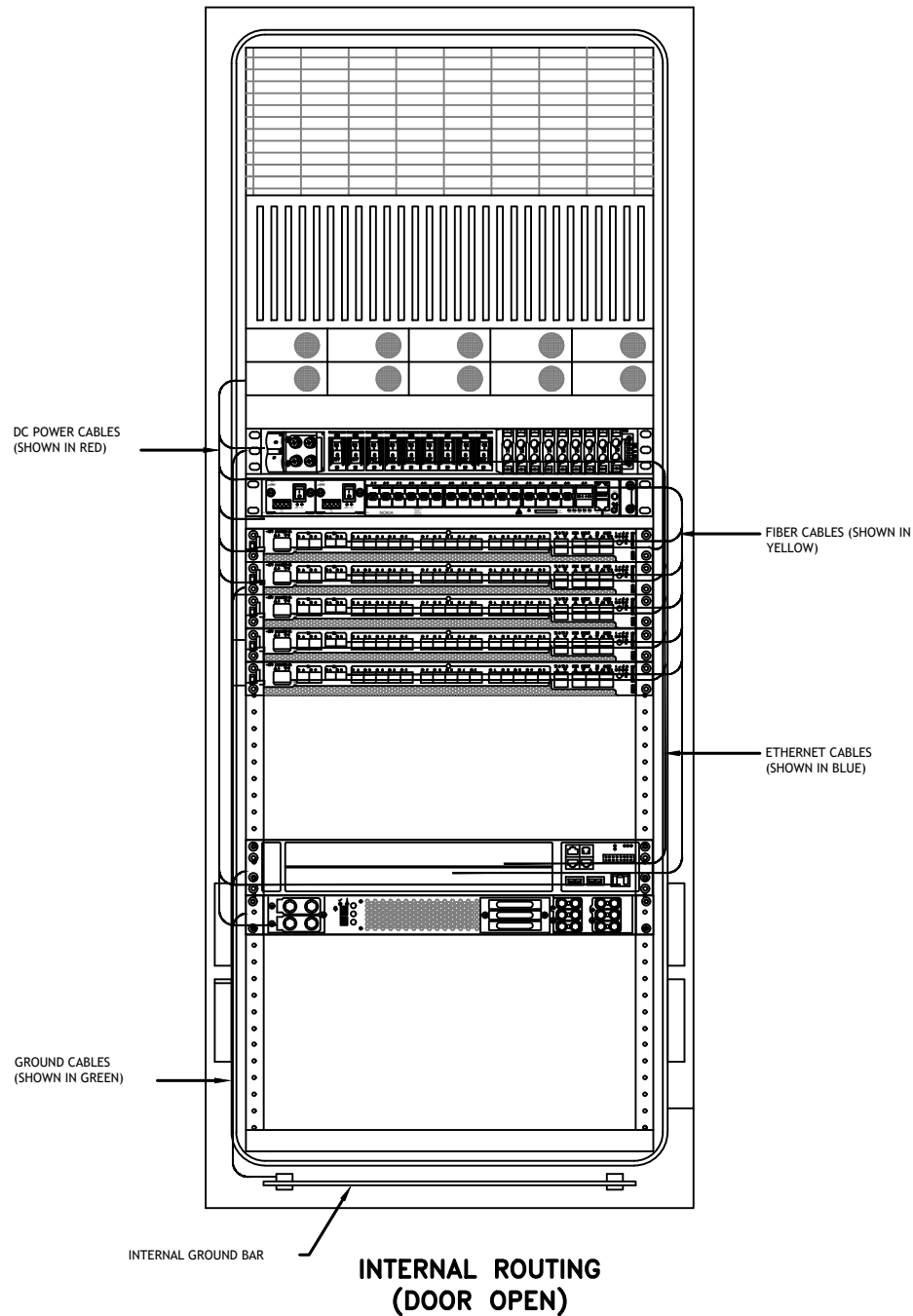
LEFT VIEW



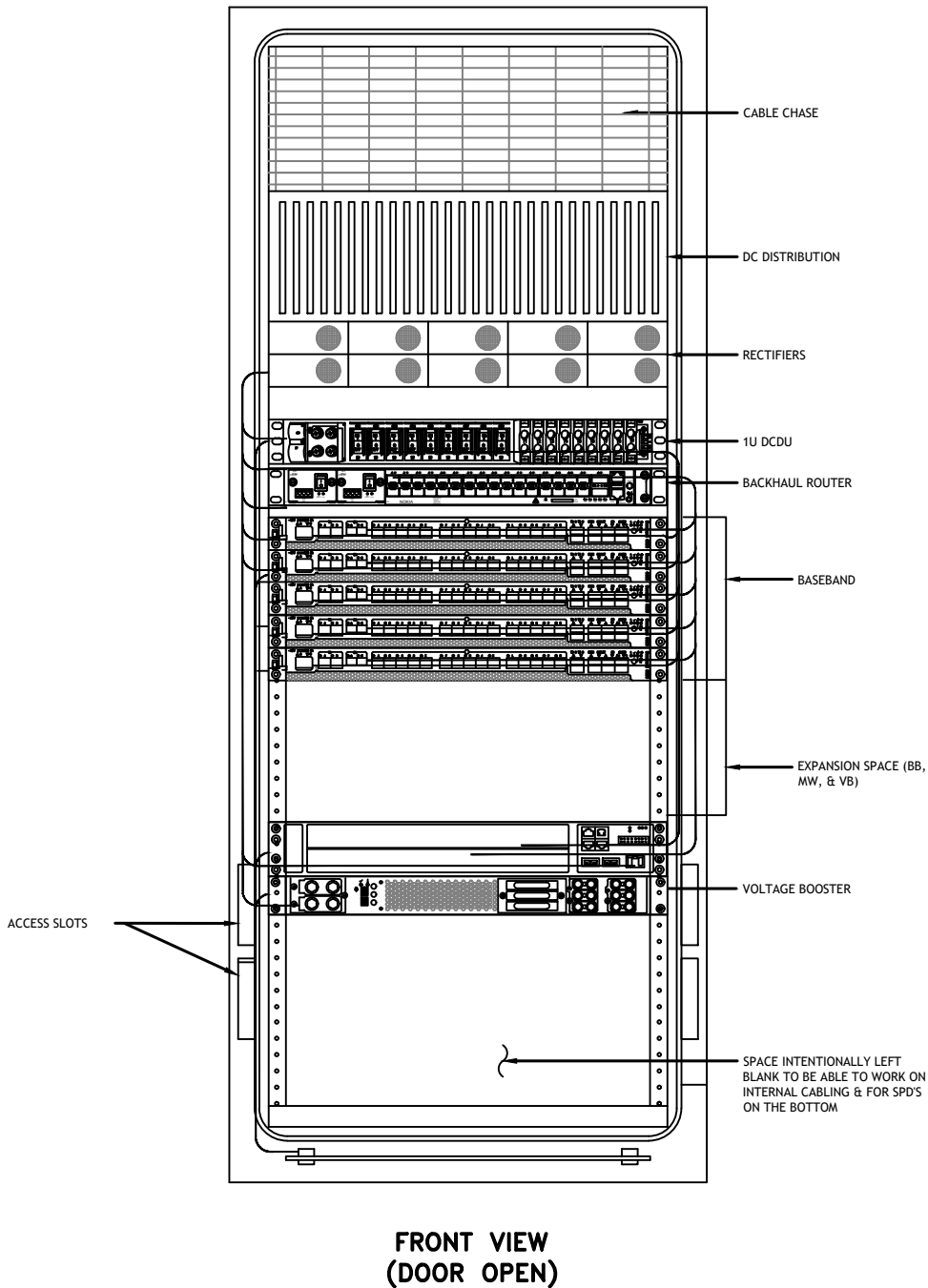
FRONT VIEW



RIGHT VIEW

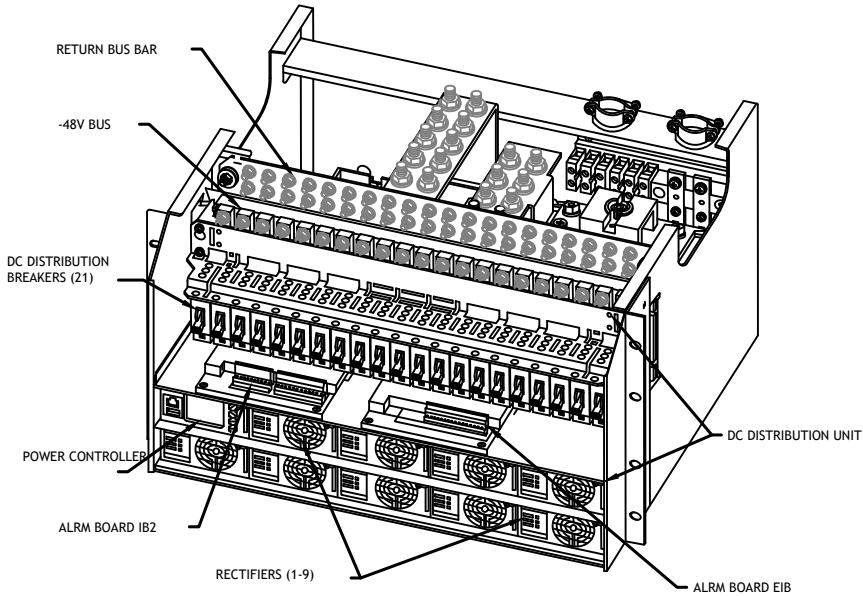


RACK ASSIGNMENTS	
RU SLOTS	DESCRIPTION
1	DC DISTRIBUTION
2	
3	
4	
5	RECTIFIER SHELF
6	
7	FIBER BOX
8	DCDU
9	BACKHAUL ROUTER
10	
11	1ST BASEBAND
12	2ND BASEBAND
13	3RD BASEBAND
14	4TH BASEBAND
15	5TH BASEBAND
16	EXPANSION
17	
18	
19	EXPANSION / LEGACY BASEBAND / VOLTAGE BOOSTER
20	
21	VOLTAGE BOOSTER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

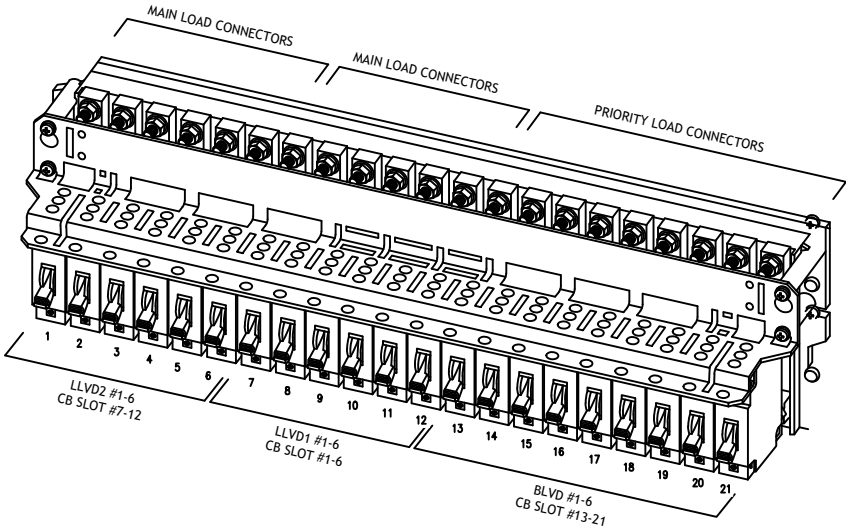


NOTE:
THIS IS FOR REFERENCE ONLY, CHECK
FOR SPECIFIC DETAIL IN T-MOBILE
CABINET SPECIFIC INSTALLATION GUIDES

Breaker Allocation for LG160				
CBSLOT	CRK #	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	VDD1 47.0V	1	Router PS 2"/Future	
2		2	Future	
3		3	PSU 4813 feeding B25/66 α, β and γ (Air 3104's)	
4		4	PSU 4813 feeding B41 δ & B71/12 δ (Air 6449's and Radio 4480's)	
5		5	PSU 4813 feeding B41 α, β and γ (Air 6749's)	
6		6		
7	VDD2 49.2V	1	PSU 4813 feeding B71/12 α, β and γ (Radio 4449's)	PSU 4813 feeding B71/12 α, β and γ (Radio 4480's)
8		2		
9		3	Future	
10		4	Future	
11		5	Future	
12		6	Future	
13	VDD3 43.2V	1	Router PS-	
14		2	Radio 4415 B25/66 α	Radio 4460 B25/66 α-1
15		3	Radio 4415 B25/66 β	Radio 4460 B25/66 α-2
16		4	Radio 4415 B25/66 γ	Radio 4460 B25/66 β-1
17		5	PSU 4813 feeding B71/12 α, β and γ (Radio 4449's)	Radio 4460 B25/66 β-2
18		6	Radio 4460 B25/66 γ-1	
19		7	Future	Radio 4460 B25/66 γ-2
20		8	DCDU	
21		9	AAV	
Sector Identification α Alpha, β Beta, γ Gamma, δ Delta, ε Epsilon, ζ Zeta				



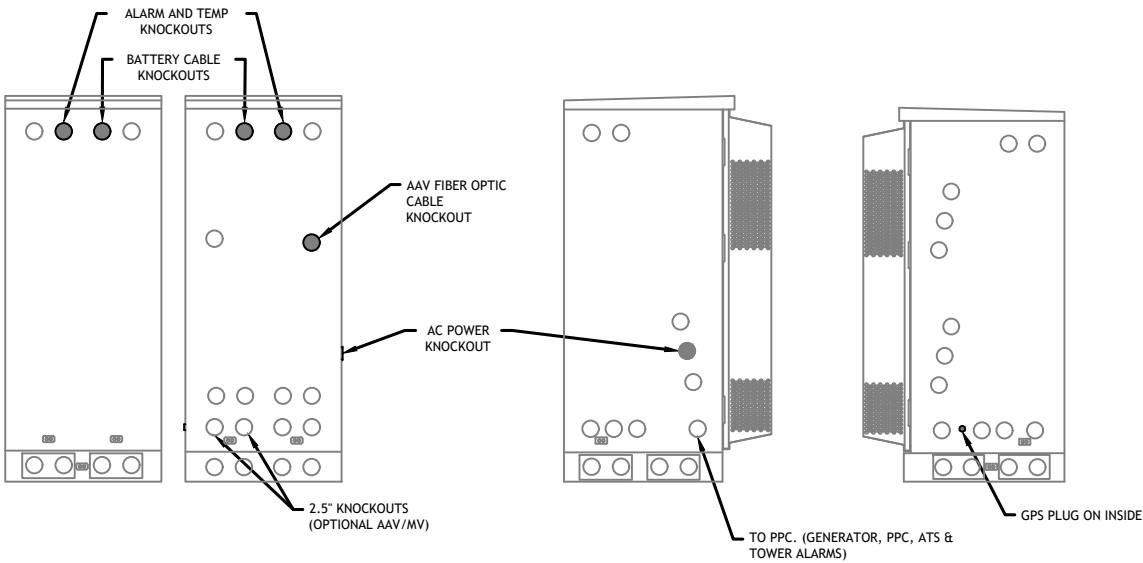
POWER SUBRACK



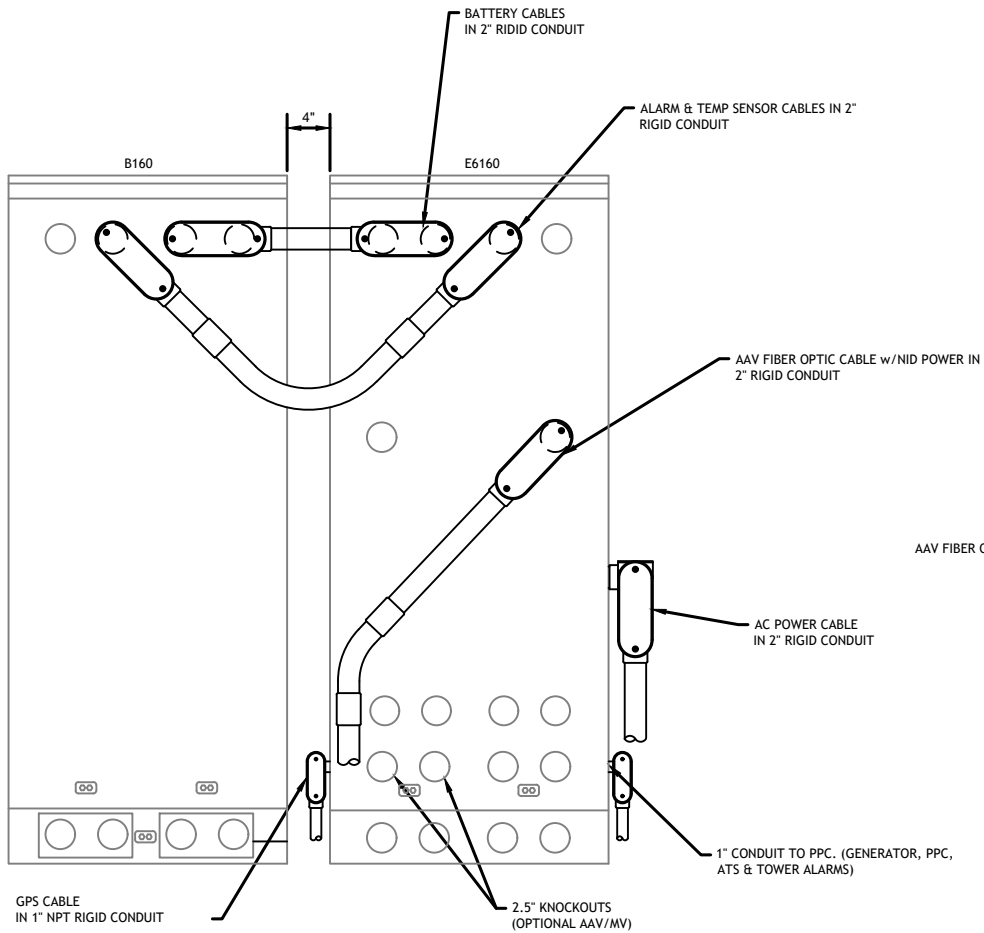
DC DISTRIBUTION

NOTE:

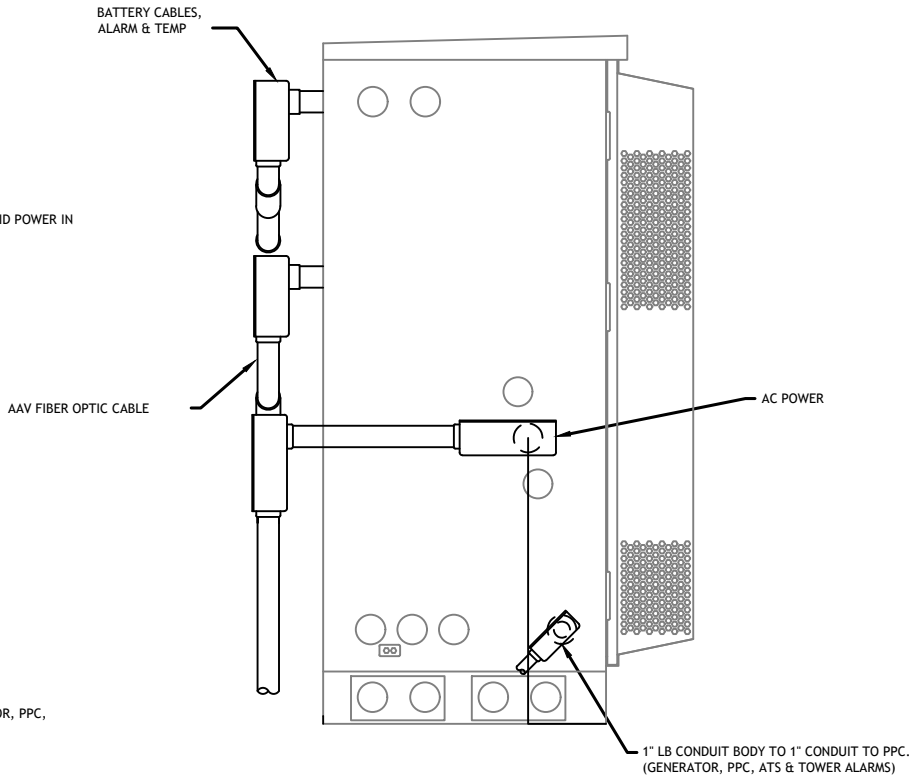
- 1. ALL CONDUIT AND FITTING ENTRANCES INTO CABINETS AND ENCLOSURES MUST UTILIZE MYERS OR EQUIVALENT HUBS OR SEALING WASHERS TO PREVENT WATER ENTRY/SEEPAGE INTO CABINETS AND ENCLOSURES.
- 2. (LIQUIDFLEX) FLEXIBLE METALLIC CONDUIT (LFMC) & ASSOCIATED FITTINGS CAN BE USED AS NEEDED BUT ONLY FOR TIGHT CONDUIT BENDS AND RUNS SUBJECT TO UL AND NEC LIMITATIONS. 6' MAX PER CONDUIT RUN.
- 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

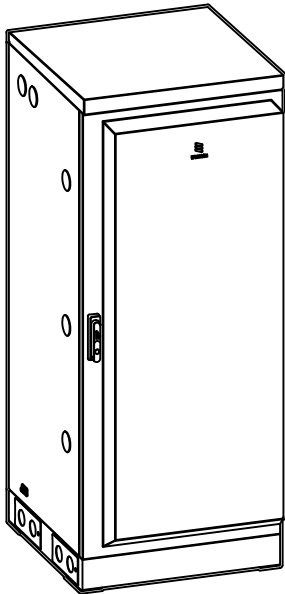


REAR VIEW



SIDE VIEW

MANUFACTURER:	ERICSSON
MODEL:	B160 BATTERY CABINET
DIMENSIONS:	63" x 25.6" x 29.5" (H x W x D)
WEIGHT:	295 LBS (WITHOUT BATTERIES)



2.5" KNOCKOUTS w/ RIGID CONDUIT, LB CONDUIT BODY FOR ALARM CABLE & TEMP SENSOR ROUTING. CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE

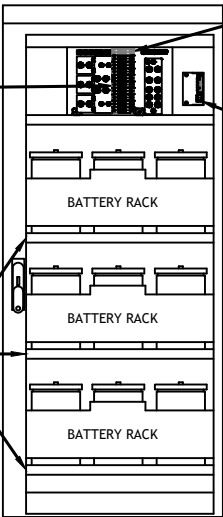
CABINET GROUND POINTS

REAR VIEW

2.5" KNOCKOUTS w/ RIGID CONDUIT, LB CONDUIT BODY FOR BATTERY CABLE CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE

3 x 300A BREAKERS

BATTERY VIBRATION MOUNTS



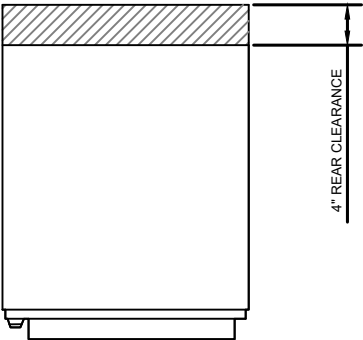
25A AUX BREAKERS, FANS, LIGHTS, ETC.

ALARM BOX, PRELABELED

FRONT VIEW (DOOR OPEN)

3X BATTERY SHELVES, UP TO 200A HR, w/ PREINSTALLED HEATERS

- NOTE:
- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS
 - CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING



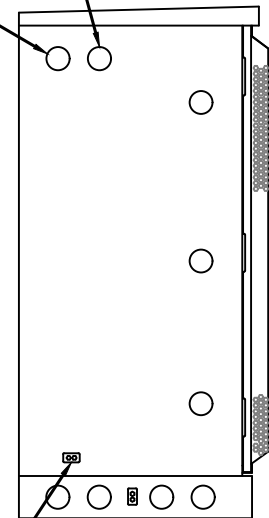
4" REAR CLEARANCE

GROUNDING NOTE:

"CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED."

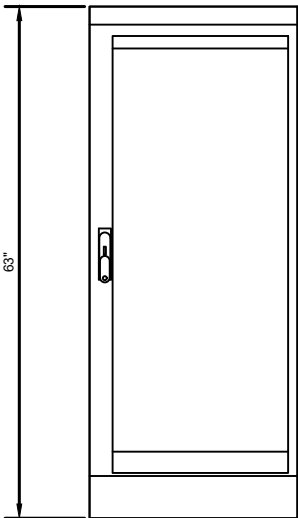
(OPTIONAL) 2.5" KNOCKOUTS FOR ALARM & TEMP SENSOR ROUTING TO 6160

(OPTIONAL) 2.5" DC POWER KNOCKOUTS TO 6160

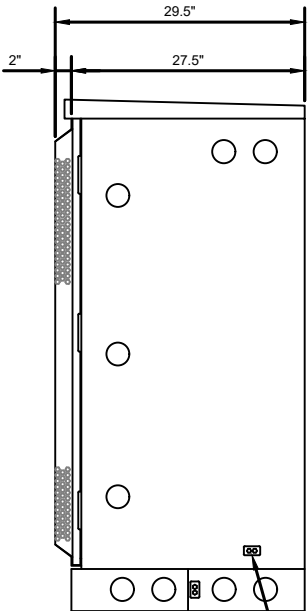


CABINET GROUND POINT

LEFT VIEW

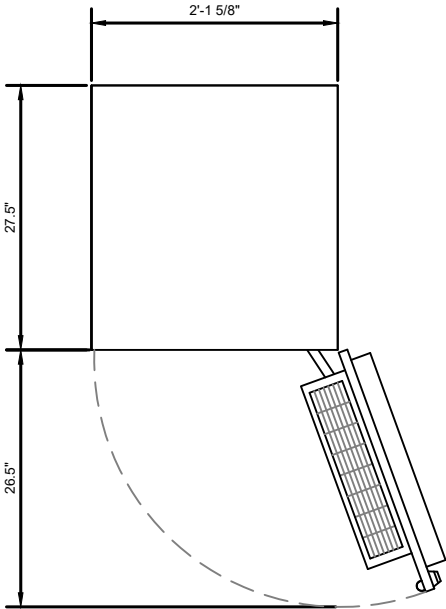


FRONT VIEW



CABINET GROUND POINT

RIGHT VIEW

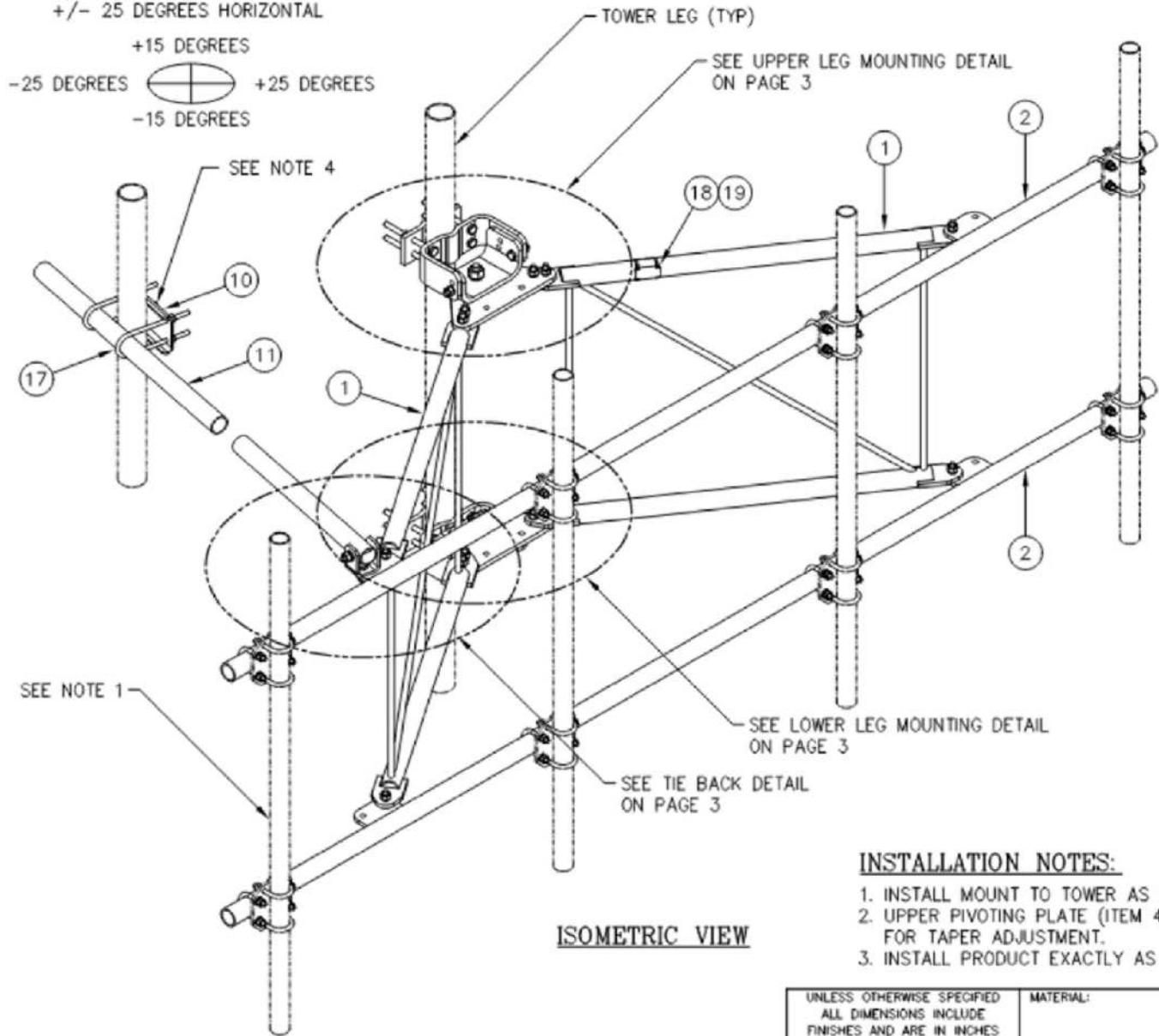


PLAN VIEW

B160 ERICSSON SITE SUPPORT BATTERY CABINET

TIEBACK ANGLE RANGE DETAIL

+/- 15 DEGREES VERTICAL
+/- 25 DEGREES HORIZONTAL
+15 DEGREES
-25 DEGREES -15 DEGREES +25 DEGREES



ISOMETRIC VIEW

NOTES:

1. MOUNTING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.
2. QUANTITIES SHOWN IN LISTS OF MATERIAL ARE FOR ONE (1) V-BOOM ONLY.
3. THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2" TO 5 9/16" ROUND LEG.
4. TIEBACK MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL UNLESS APPROVED BY THE ENGINEER OF RECORD.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:		
TOLERANCES: FRACTIONS ± 1/16"			TOLERANCES DO NOT APPLY TO RAW MATERIAL		
ANGLES ± 1/2 DEG.					
DECIMALS ± .010"					
REV	DATE	DRW/CHK	DESCRIPTION		
3	10/19/16	IKL	DELTA/ADDED INSTALLATION NOTES		
2	02/05/16	DLW	DELTA/ADDED PACKAGING NOTE		
1	01/23/16	IKL	EK REVISED NOTES & ADDED TIEBACK ANGLE RANGE DETAIL		

C10857001C 12' HD V-BOOM ASSEMBLY W/TIEBACK

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01222	WELDMENT, STANDOFF ARM	126
2.	2	CW01223	WELDMENT, FACE PIPE	147
3.	2	CS03109	PLATE, ROTATING	34
4.	1	CS03110	PLATE, PIVOTING (UPPER)	16
5.	1	CS03111	PLATE, LEG CLAMP (UPPER)	17
6.	1	CS03112	PLATE, PIVOTING (LOWER)	14
7.	1	CS03113	PLATE, LEG CLAMP (LOWER)	17
8.	2	CS03114	PLATE, LEG CLAMP (BACK)	14
9.	1	CS00098	PLATE, TIE BACK SWIVEL	3
10.	1	CS03285	PLATE, TIE BACK CLAMP	4
11.	1	CS03333	PIPE, TIE BACK	38
12.	2	C40026073	BOLT ASSEMBLY, 1 Ø X 3 A325	4
13.	8	C40140004	BOLT ASSEMBLY, 5/8 Ø X 8 A307	13
14.	1	C40026033	BOLT ASSEMBLY, 5/8 Ø X 4 1/2 A325	1
15.	12	C40026025	BOLT ASSEMBLY, 5/8 Ø X 2 1/2 A325	6
16.	5	C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	3
17.	2	C40034183	U-BOLT ASSEMBLY, 1/2 Ø X 2 9/16 C-C	3
18.	1	Z30992001	MOUNT CLASSIFICATION TAG C10857001C	1
19.	2	C40062103	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
TOTAL WEIGHT				462

PACKAGING NOTE

CK00386 INCLUDES ITEMS 1, 3, 4, 5, 6, 7, 12 & 15 (8 QTY)
CK00387 INCLUDES ITEMS 2, 8, 9, 10, 11, 13, 14, 15 (4 QTY), 16, 17, 18 & 19

INSTALLATION NOTES:

1. INSTALL MOUNT TO TOWER AS SHOWN, SO THAT WELDED STANDOFF DIAGONAL IS SLOPING DOWNWARD FROM TOWER END TO FACE PIPE END.
2. UPPER PIVOTING PLATE (ITEM 4) HAS THREE HOLES ON EACH SIDE AND UPPER LEG CLAMP PLATE (ITEM 5) HAS TWO HOLES ON EACH SIDE FOR TAPER ADJUSTMENT.
3. INSTALL PRODUCT EXACTLY AS SHOWN IN DRAWING, WITH ALL BOLTS FACING UPWARDS.

Sabre Industries
Towers and Poles

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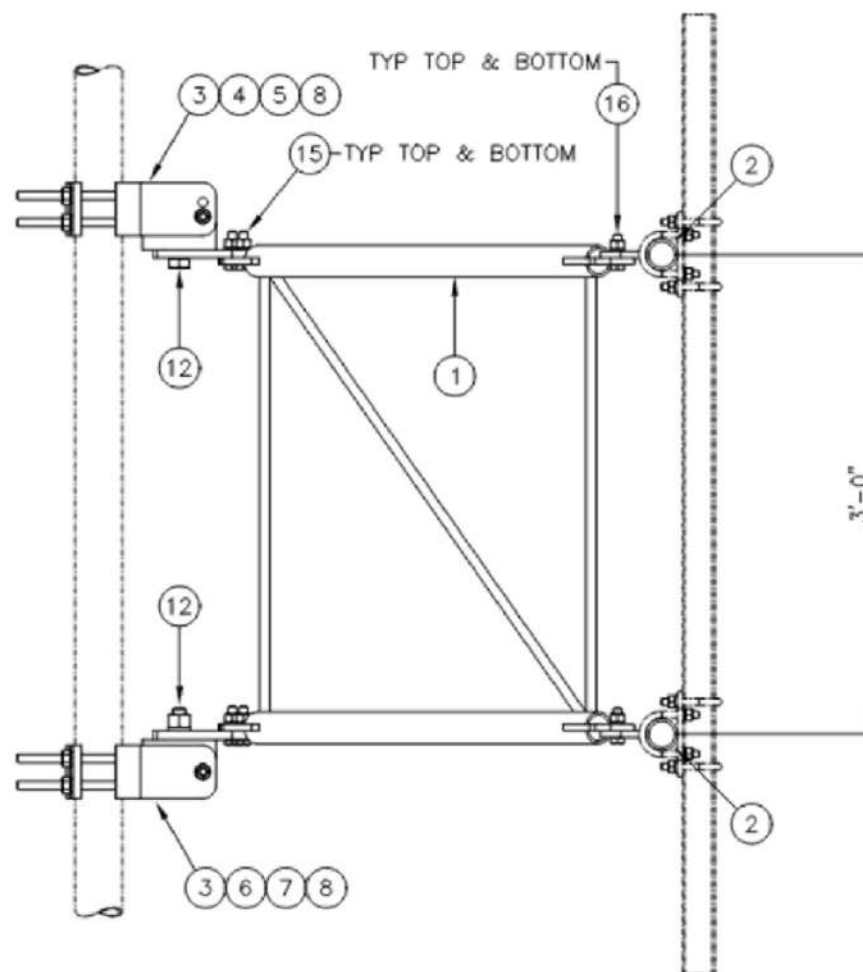
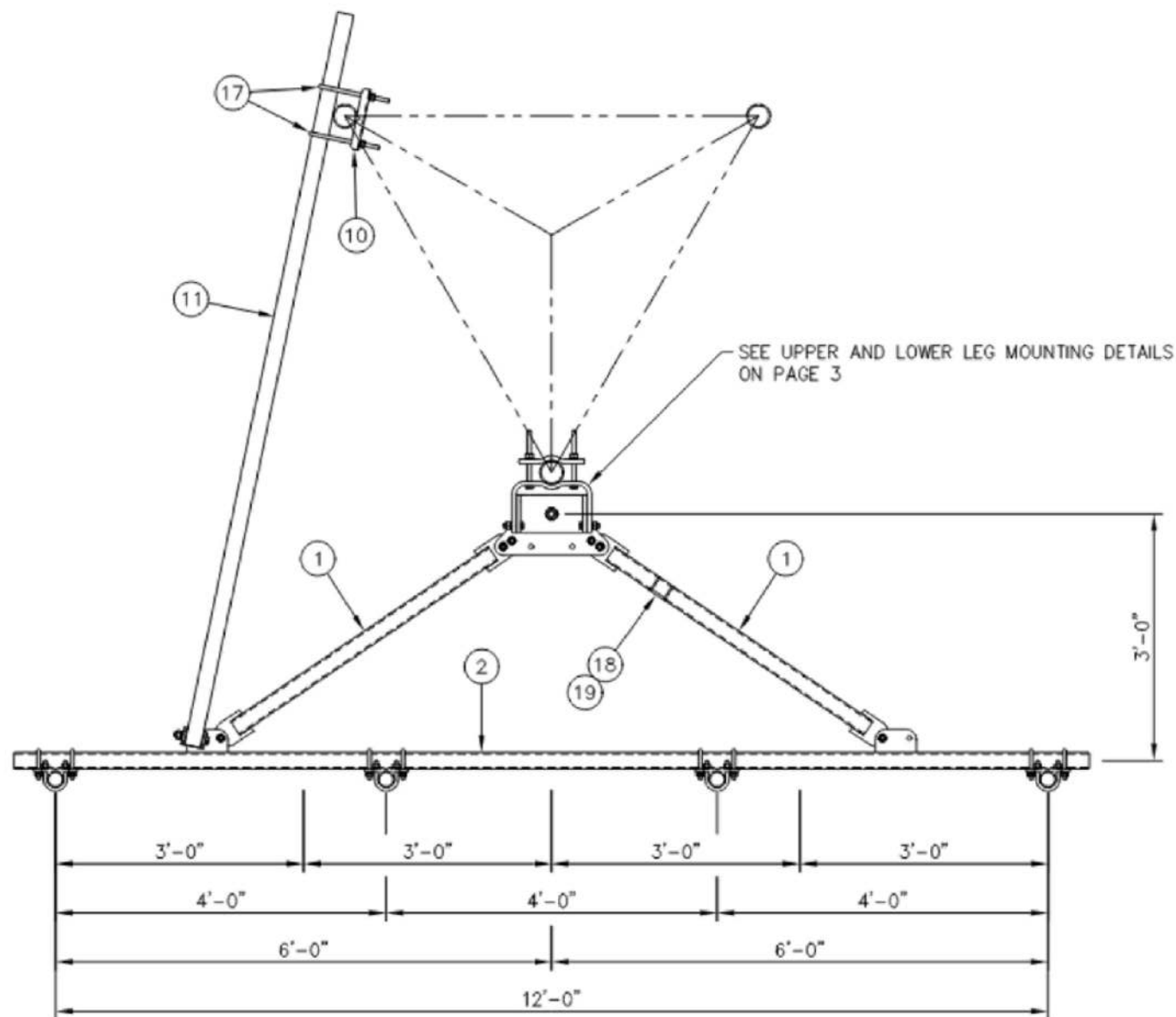
12' HD V-BOOM ASSEMBLY W/TIEBACK
(3' STANDOFF)
W/NO ANTENNA MOUNTING PIPES

DATE		SIZE	DRAWING NO.	REV
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DRAWN BY		SCALE		PAGE
WRF		None		1 OF 3
CHECKED BY				
EK				

SUPPLEMENTAL

SHEET NUMBER:
R-611

REVISION:



SIDE VIEW

MOUNTING OPTIONS
SHOWING MOUNTING PIPE PLACEMENTS

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:		
TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$			TOLERANCES DO NOT APPLY TO RAW MATERIAL		
REV	DATE	DRW	CHK	DESCRIPTION	
3	10/19/16	KLE	DEL	ADDED INSTALLATION NOTES	
2	02/05/16	DLW	DEL	ADDED PACKAGING NOTE	
1	01/21/16	KLE	EK	REVISED NOTES & ADDED TIEBACK ANGLE RANGE DETAIL	

Sabre Industries™
Towers and Poles

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12' HD V-BOOM ASSEMBLY W/TIEBACK
(3' STANDOFF)
W/NO ANTENNA MOUNTING PIPES

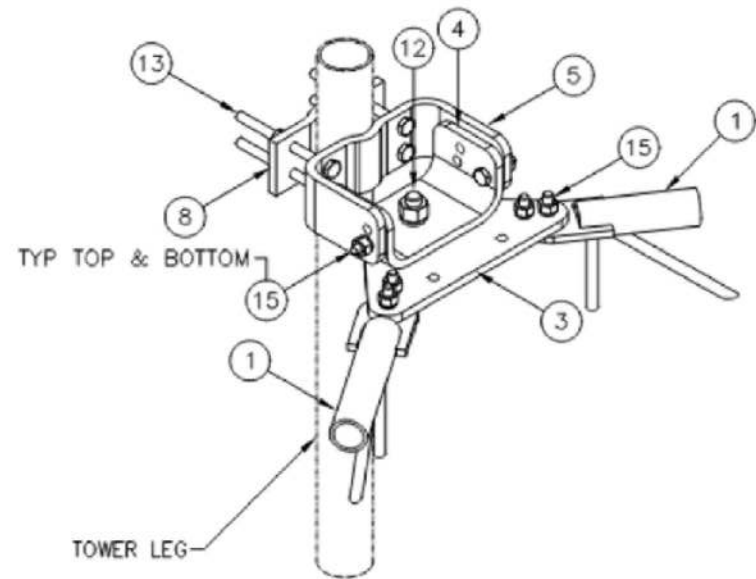
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DRAWN BY		WRF	SCALE		None		PAGE	
CHECKED BY		EK					2 OF 3	

SUPPLEMENTAL

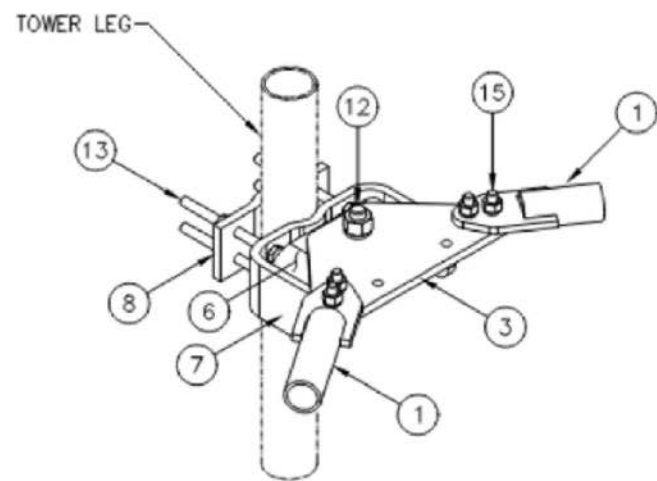
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R-612

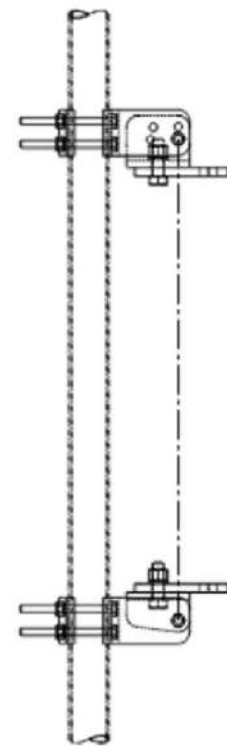
REVISION:



UPPER LEG MOUNTING DETAIL



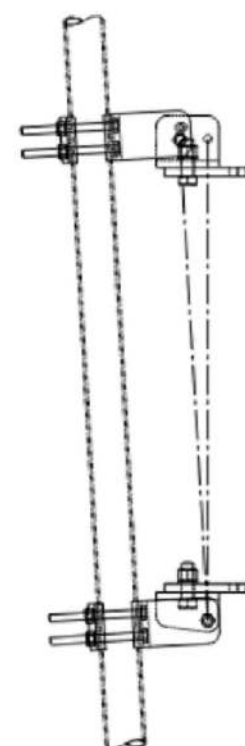
LOWER LEG MOUNTING DETAIL



STRAIGHT
TOWER SECTION

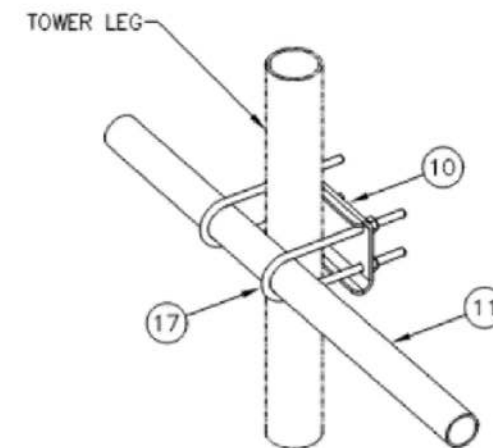


TAPERED
1'-9 IN 20' SLOPE

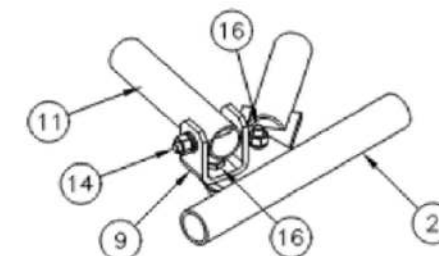


TAPERED
2' IN 20' SLOPE

-----PIVOTING OPTIONS-----



TIE BACK DETAIL
AT TOWER LEG



TIE BACK DETAIL
AT ANTENNA MOUNTING FRAME

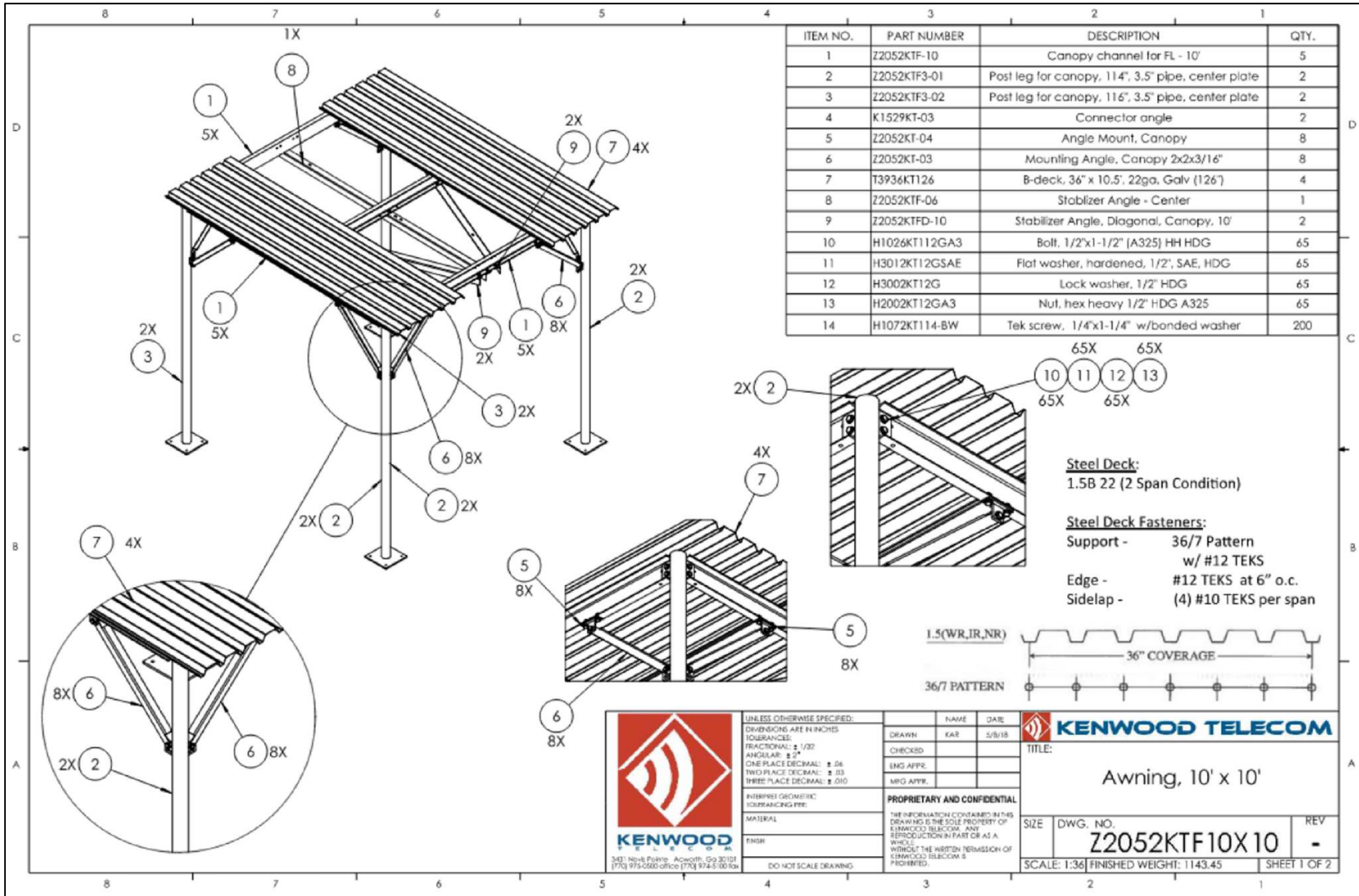
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES				MATERIAL:			12' HD V-BOOM ASSEMBLY W/TIEBACK (3' STANDOFF) W/NO ANTENNA MOUNTING PIPES				
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"				TOLERANCES DO NOT APPLY TO RAW MATERIAL							
						CONFIDENTIAL This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2015 Sabre Communications Corporation. All rights reserved.			SIZE	DRAWING NO.	REV
							DATE	12/22/15	B	C10857001C	3
3	10/19/16	KLE	DEL	ADDED INSTALLATION NOTES			DRAWN BY	WRF			
2	02/05/16	KLE	DEL	ADDED PACKAGING NOTE			CHECKED BY	EK			
1	01/21/16	KLE	EK	REVISED NOTES & ADDED TIEBACK ANGLE RANGE DETAIL					SCALE		PAGE
REV	DATE	DRW	CHK	DESCRIPTION					None		3 OF 3

SUPPLEMENTAL

SHEET NUMBER:

R-613

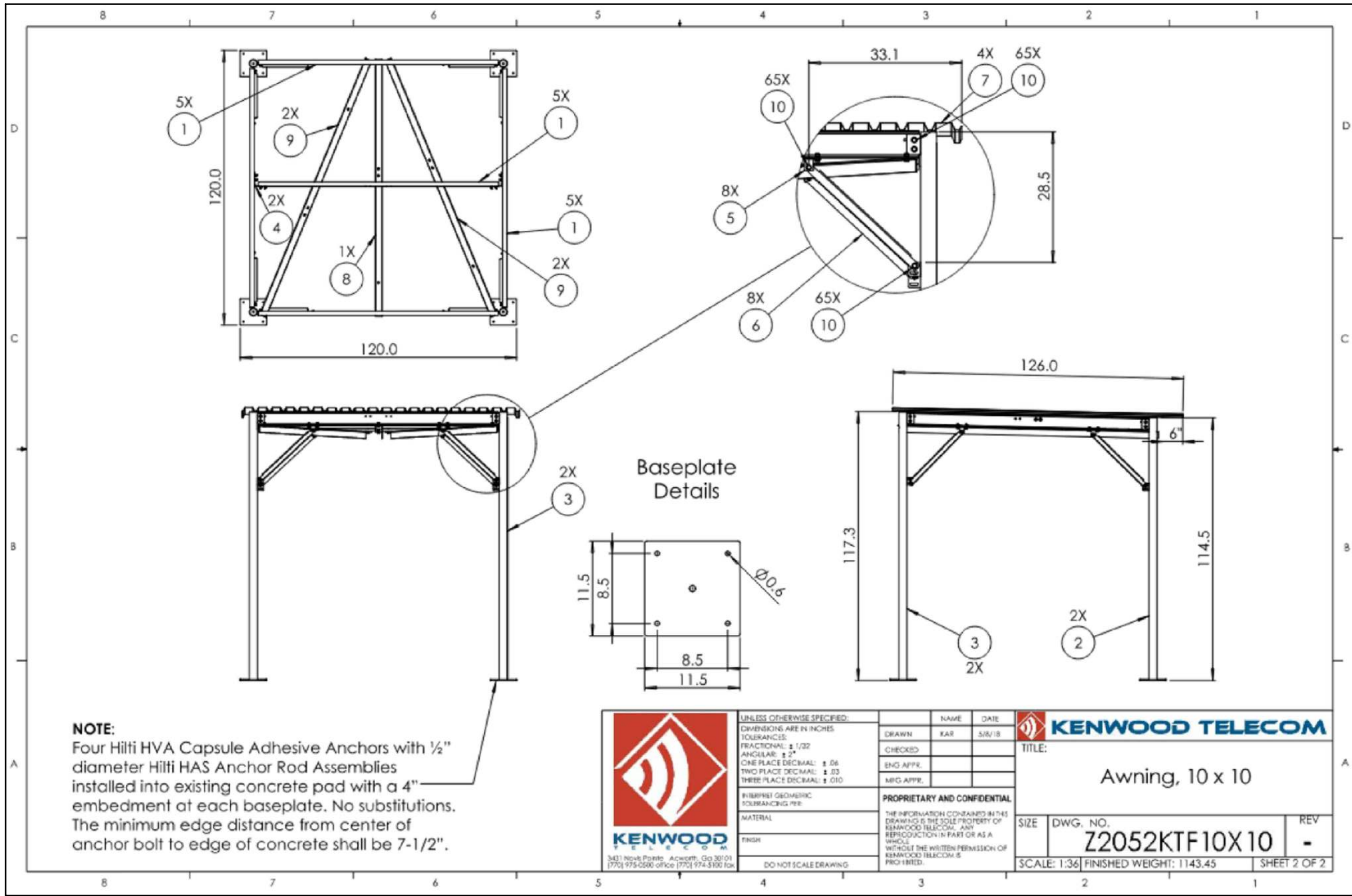
REVISION:



SUPPLEMENTAL

SHEET NUMBER:
R-614

REVISION:



NOTE:
Four Hilti HVA Capsule Adhesive Anchors with 1/2" diameter Hilti HAS Anchor Rod Assemblies installed into existing concrete pad with a 4" embedment at each baseplate. No substitutions. The minimum edge distance from center of anchor bolt to edge of concrete shall be 7-1/2".



UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN INCHES	
TOLERANCES:	
FRACTIONAL:	1/32
ANGULAR:	± 2°
ONE PLACE DECIMAL:	± .06
TWO PLACE DECIMAL:	± .03
THREE PLACE DECIMAL:	± .010
INTERPRET GEOMETRIC SURFACING PER:	
MATERIAL:	
FINISH:	
DO NOT SCALE DRAWING	

NAME	DATE
DRAWN: KAR	5/8/18
CHECKED:	
ENG APPR:	
MFG APPR:	
PROPRIETARY AND CONFIDENTIAL	
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		TITLE:	
		Awning, 10 x 10	
SIZE	DWG. NO.	REV	
	Z2052KTF10X10	-	
SCALE: 1:36		FINISHED WEIGHT: 1143.45	
		SHEET 2 OF 2	

SUPPLEMENTAL

SHEET NUMBER:
R-615

REVISION:



January 30, 2024

Columbia County, Florida

135 NE Hernando Ave # 21, Lake City, FL 32055

RE: Communications Tower Permit #000046554 Amendment Request

To Whom It May Concern:

I, Larry Sweatt, Qualifier for Ericsson, Inc. State of Florida, General Contractors License #CGC1532010 do hereby request an amendment plan review for the Communications Tower Permit #000046554 for the project located at 917 SW CHARLES TER LAKE CITY, FL 32024. The project was on hold by the Tower Owner and is now off hold and ready to begin.

T-Mobile had advised that there wasn't enough room to accommodate their proposed 10x15 pad. So, the approved drawings were revised into the new submitted set dated 01/19/2024.

Sincerely,

Larry Sweatt

Sworn and subscribed before me this 1st day of Feb, 2024, by

Larry Sweatt who is personally known to me.

