



Kimley»Horn

REGISTRY NO: 696
421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

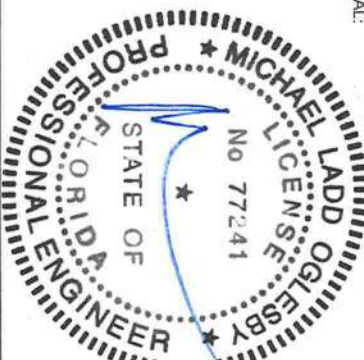
REV.	DESCRIPTION	BY	DATE
A	PRELIM	DJC	08/03/21
0	ISSUED FOR CONSTRUCTION	HG	08/17/21

ATC SITE NUMBER:
303048
ATC SITE NAME:
LACROSSE FL
VERIZON SITE NAME:
ATC LACROSSE

SITE ADDRESS:
2156 SE CR18
LAKE CITY, FL 32024

CONCLUSIONS

SEAL:



DATE DRAWN:	08/17/21
ATC JOB NO:	13677441
CUSTOMER ID:	ATC LACROSSE
CUSTOMER #:	131311

TITLE SHEET

SHEET NUMBER: G-001	REVISION: 0
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LOCATION MAP



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: LACROSSE FL 6

ATC SITE NUMBER: 303048

VERIZON SITE NAME: ATC LACROSSE

VERIZON SITE NUMBER: 131311

SITE ADDRESS: 2156 SE CR18

LAKE CITY, FL 32024

VERIZON

ANTENNA AMENDMENT DRAWINGS

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. 2020 FLORIDA BUILDING CODE, 7TH EDITION</p> <p>2. ANSI/TIA-222-H</p> <p>3. 7TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)</p> <p>4. 2017 NATIONAL ELECTRICAL CODE</p> <p>5. BASIC WIND SPEED: 120 MPH (3-SECOND GUST - VULT) / EXPOSURE CATEGORY: B / RISK CATEGORY : II</p> <p>6. CITY/COUNTY ORDINANCES</p>		<p><u>SITE ADDRESS:</u></p> <p>2156 SE CR 18</p> <p>LAKE CITY, FL 32024</p> <p>COUNTY: COLUMBIA</p> <p><u>GEOGRAPHIC COORDINATES:</u></p> <p>LATITUDE: 29.95153502</p> <p>LONGITUDE: -82.57070891</p> <p>GROUND ELEVATION: 153 AMSL</p>		<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:</p> <p>TOWER WORK:</p> <p>REMOVE (9) ANTENNA(S), (12) RRU(S), (6) DIPLEXER(S), AND (2) 1-5/8" COAX CABLE(S)</p> <p>INSTALL MOUNT MODIFICATIONS, (9) ANTENNA(S), (3) COMBINER(S), (6) RRU(S), (2) OVP(S), AND (2) 12X24 (1-5/8") HYBRID CABLE(S) EXISTING (6) 1 5/8" COAX CABLE(S), (4) 1 5/8" COAX CABLE(S) (SPARE) TO REMAIN</p> <p>GROUND WORK:</p> <p>REMOVE (1) 6201 CABINET, (1) PPC, (1) ATS, (1) SUBPANEL, AND (1) 3KW GENERATOR</p> <p>INSTALL (1) CONSOLIDATED EQUIPMENT CABINET, (1) ILC, AND (1) 50KW GENERATOR</p>		SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
				G-001	TITLE SHEET	0	08/17/21	HG		
				G-002	GENERAL NOES	0	08/17/21	HG		
				C-101	DETAILED SITE PLAN	0	08/17/21	HG		
				C-102	DETAILED GROUND PLAN	0	08/17/21	HG		
				C-201	TOWER ELEVATION	0	08/17/21	HG		
				C-401	ANTENNA INFORMATION & SCHEDULE	0	08/17/21	HG		
				C-501	CONSTRUCTION DETAILS	0	08/17/21	HG		
				E-100	ELECTRONIC NOTES	0	08/17/21	HG		
				E-501	ELECTRICAL ROUTING AND GROUNDING	0	08/17/21	HG		
		E-502	PANEL SCHEDULE & ONE LINE DIAGRAM	0	08/17/21	HG				
		E-503	GROUNDING DETAILS	0	08/17/21	HG				
<p><u>TOWER OWNER:</u></p> <p>AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>APPLICANT:</u></p> <p>VERIZON WIRELESS SCANDURA, JOHN JOHN.SCANDURAT@ VERIZONWIRELESS.COM</p>		<p><u>ENGINEER:</u></p> <p>KIMLEY-HORN & ASSOCIATES, INC. 421 FAYETTEVILLE ST., SITE 600 RALEIGH, NC 27601 REGISTRY NO: 696</p> <p><u>PROPERTY OWNER:</u></p> <p>ROBERTS LAND TIMBER INVESTIME 2156 SE CR18 LAKE CITY, FL 32024</p>		PROJECT NOTES						
				1. THE FACILITY IS UNMANNED.						
				2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.						
				3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.						
<p><u>UTILITY COMPANIES</u></p> <p>POWER COMPANY: CLAY ELECTRIC PHONE: (800) 224-4917</p> <p>TELEPHONE COMPANY: BELL SOUTH PHONE: (800) 247-2020</p>		4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.								
		5. HANDICAP ACCESS IS NOT REQUIRED.								
		6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 145(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).								
		PROJECT LOCATION DIRECTIONS								
		FROM HIGH SPRINGS, FL:								
		PROCEED FROM HIGH SPRINGS HEAD EAST ON GEORGE DUBOSE RD TOWARD US-441 S / US-41 S / FL-25 / S US HIGHWAY 441 0.2 MI TURN LEFT ONTO US-441 N/AUS-41 N / FL-25 / S US HIGHWAY 441 3.0 MI TURN RIGHT TO STAY ON SE COUNTY ROAD 18 / COUNTY HWY.-18 2.0 MI ARRIVE AT SE COUNTY ROAD 18 / COUNTY HWY.-18								

<div style="text-align: right;">SEAL:</div> 	
<div style="text-align: center;">  </div>	
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CUSTOMER ID:	ATC LACROSSE
CUSTOMER #:	131311
<h1>TITLE SHEET</h1>	
SHEET NUMBER:	G-001
REVISION:	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. AC/TELCO INTERFACE BOX (PPO)
 - 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
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, GRAVES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CASSINGS, 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 VERIZON 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 VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON 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 VERIZON 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 VERIZON 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 VERIZON 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 VERIZON 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 VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.

23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.

24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON 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 VERIZON 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 VERIZON REP. ANY WORK FOUND BY THE VERIZON 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. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.

33. VERIZON 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 VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:

- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.

- B. INSTALL ANTENNA AS INDICATED ON DRAWINGS AND VERIZON 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 AWRITZ/UPACKARD 87139 RF SCALAR NETWORK ANALYZER, SUBMIT FREQUENCY DOMAIN REFLECTION COEFFICIENT TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT MANAGER. RECOMMENDED FOR ANTENNA AND HELIX 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:

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

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

ELECTRICAL NOTES:

2. 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.

3. 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.

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



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ATC SITE NUMBER:

303048

ATC SITE NAME:

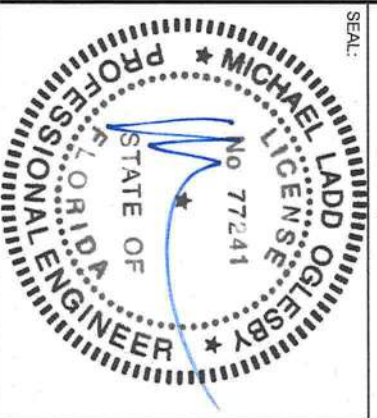
LACROSSE FL 6

VERIZON SITE NAME:

ATC LACROSSE

SITE ADDRESS:
2156 SE CR18
LAKE CITY, FL 32024

SEAL:



DATE DRAWN:	08/17/21
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CUSTOMER #:	131311

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

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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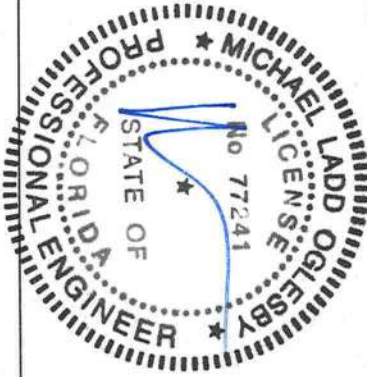
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LACROSSE FL 6

VERIZON SITE NAME:
ATC LACROSSE

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LAKE CITY, FL 32024

SEAL:



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DETAILED SITE PLAN

SHEET NUMBER: C-101	REVISION: 0
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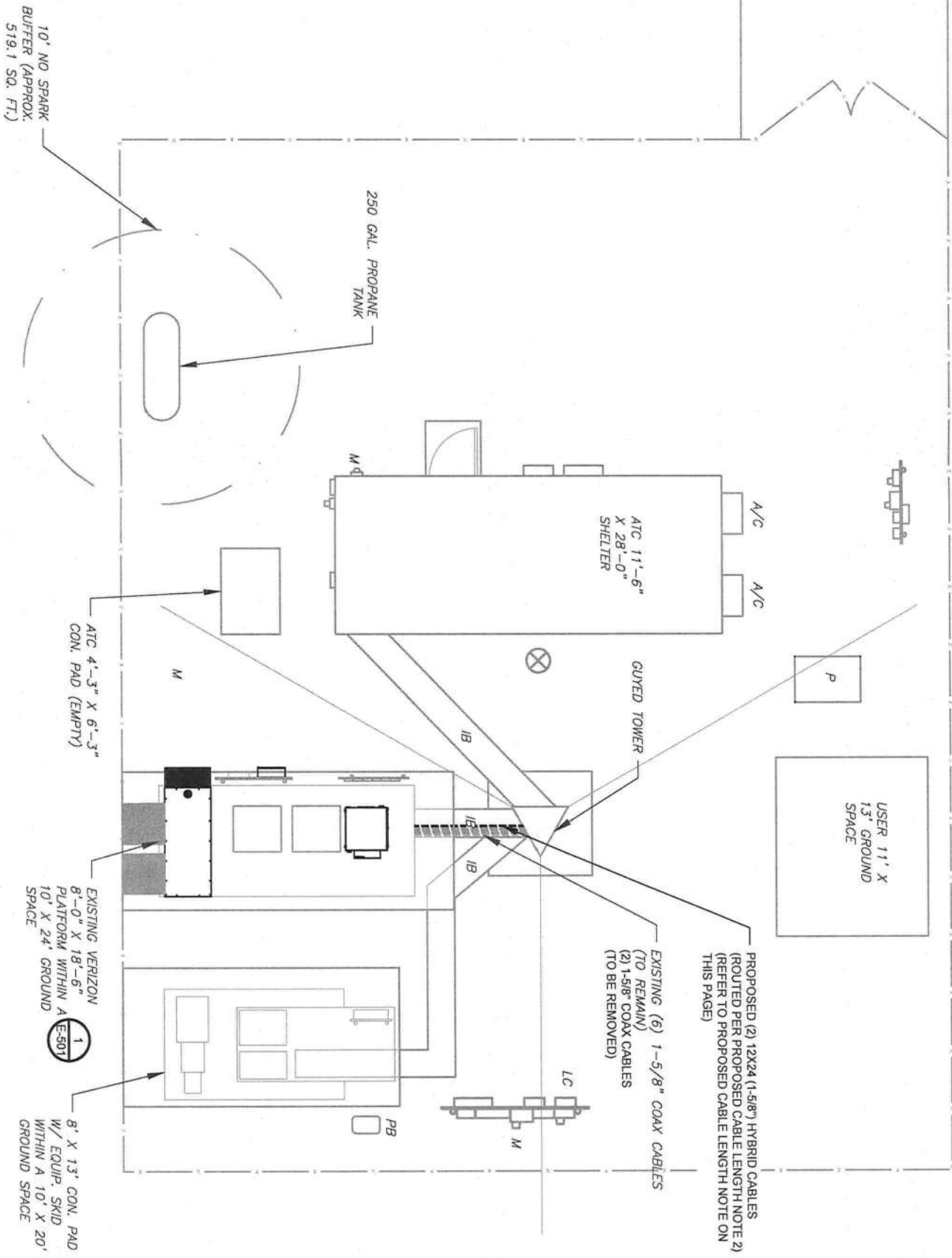
SITE PLAN NOTES:

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 VERSION 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 RECEPTACAL |
| HH, V | HAND HOLE, VAULT |
| IB | ICE BRIDGE |
| K | KENTROX BOX |
| LC | LIGHTING CONTROL |
| M | METER |
| PB | PULL BOX |
| PP | POWER POLE |
| T | TELECO |
| TRN | TRANSFORMER |
| | CHAILINK FENCE |

TRN



1 DETAILED SITE PLAN



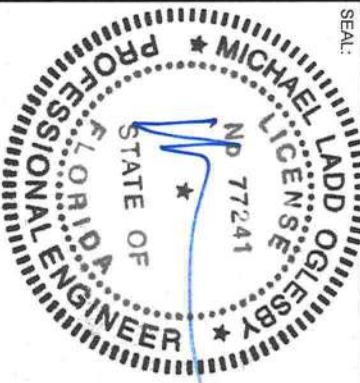


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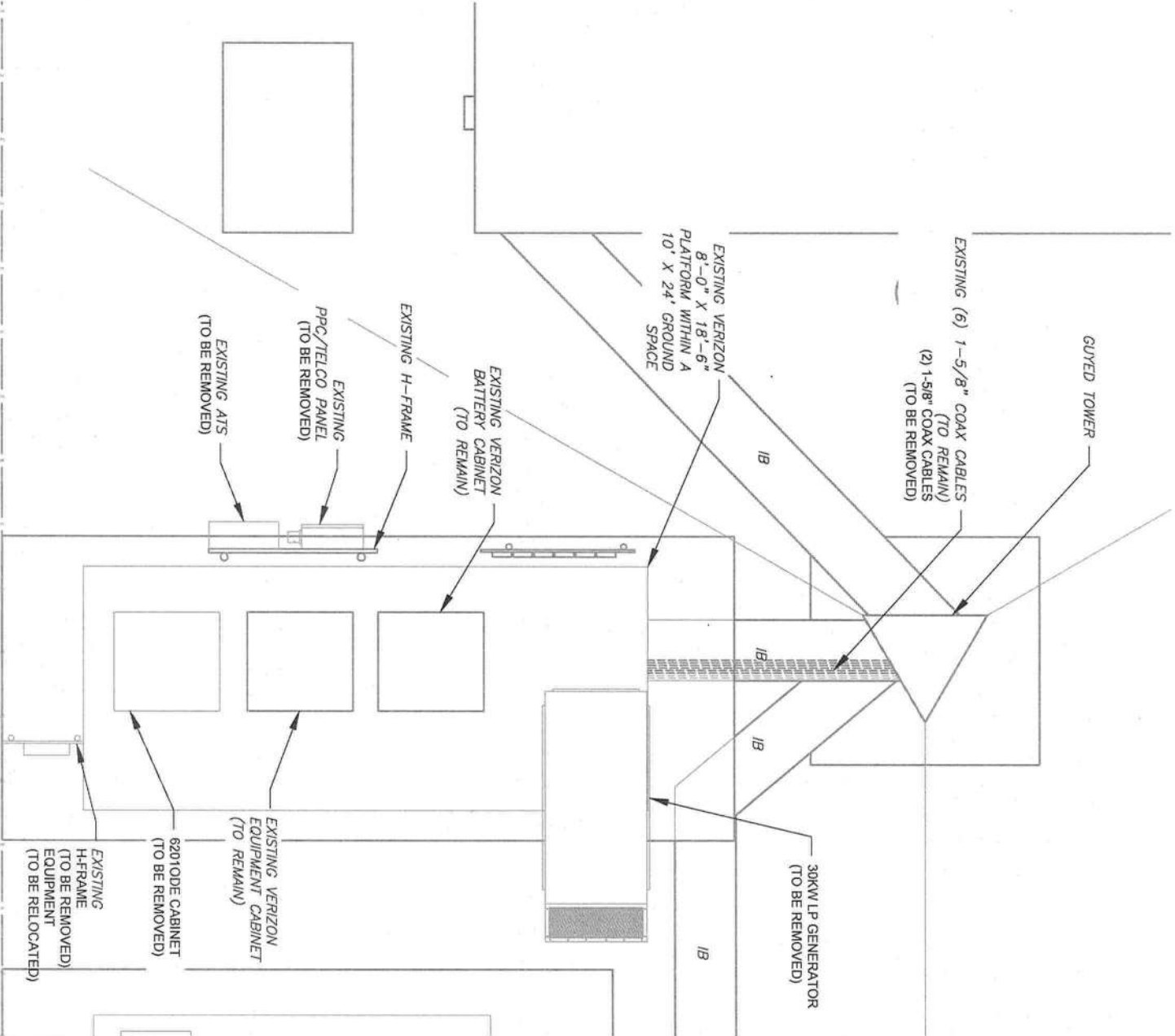
DETAILED GROUND
PLAN

SHEET NUMBER:
C-102

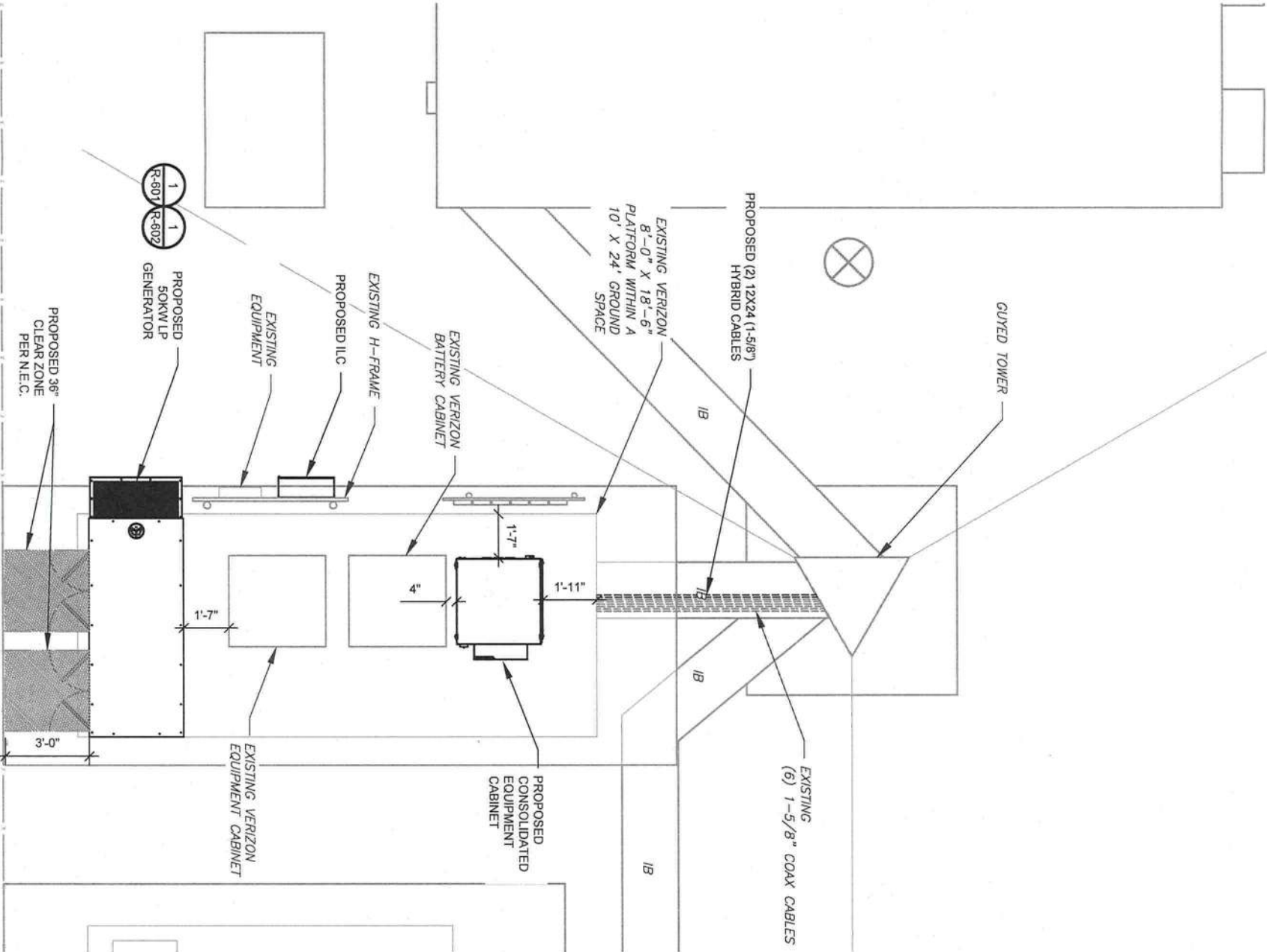
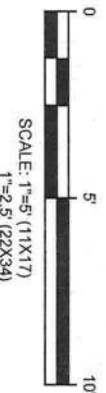
REVISION:
0

SITE PLAN NOTES:

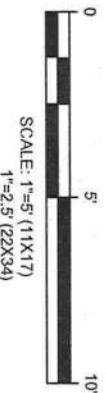
- CONTRACTOR TO VERIFY THERE IS NO LIVE AAY FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
- REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
- ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
- ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.



1 EXISTING GROUND EQUIPMENT LAYOUT



2 PROPOSED GROUND EQUIPMENT LAYOUT





AMERICANTOWER®

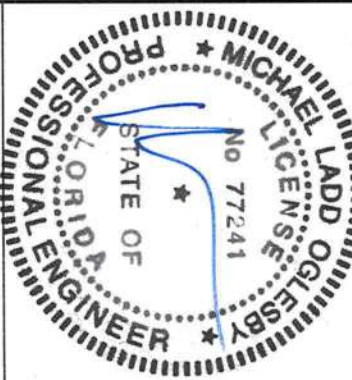
Kimley»Horn

REGISTRY NO.: 696
421 FAYETTEVILLE ST., SUITE 600
RALEIGH, NC 27601

REV.	DESCRIPTION	BY	DATE
A	PRELIM	DJC	08/03/21
B	ISSUED FOR CONSTRUCTION	HG	08/17/21
C			
D			

ATC SITE NUMBER:
303048
ATC SITE NAME:
LACROSSE FL 6
VERIZON SITE NAME:
ATC LACROSSE
SITE ADDRESS:
2156 SE CR18
LAKE CITY, FL 32024

SEAL:



DATE DRAWN:	08/17/21
ATC JOB NO:	13677441
CUSTOMER ID:	ATC LACROSSE
CUSTOMER #:	131311

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED 05/11/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

TOP OF EXISTING
HIGHEST APPURTENANCE
ELEV. 250'
TOP OF EXISTING TOWER
ELEV. 245'

EXISTING CARRIER ANTENNAS
RAD CENTER @ 250'

EXISTING AND
PROPOSED VERIZON
EQUIPMENT
C-407
C-407

EXISTING VERIZON
RAD CENTER @ 204'

EXISTING CARRIER ANTENNAS
RAD CENTER @ 190'

EXISTING CARRIER MICROWAVE
RAD CENTER @ 170'

EXISTING CARRIER MICROWAVE
RAD CENTER @ 150'

EXISTING TOWER

EXISTING TOP
OF BASE PLATE

1 TOWER ELEVATION
SCALE: N.T.S.

- 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 SNAPS OR MOUNTING HARDWARE AND BRACKETS AS SPECIED 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.)

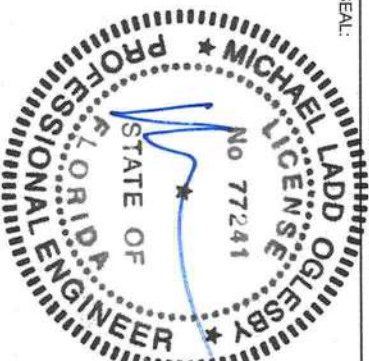


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RALEIGH, NC 27601

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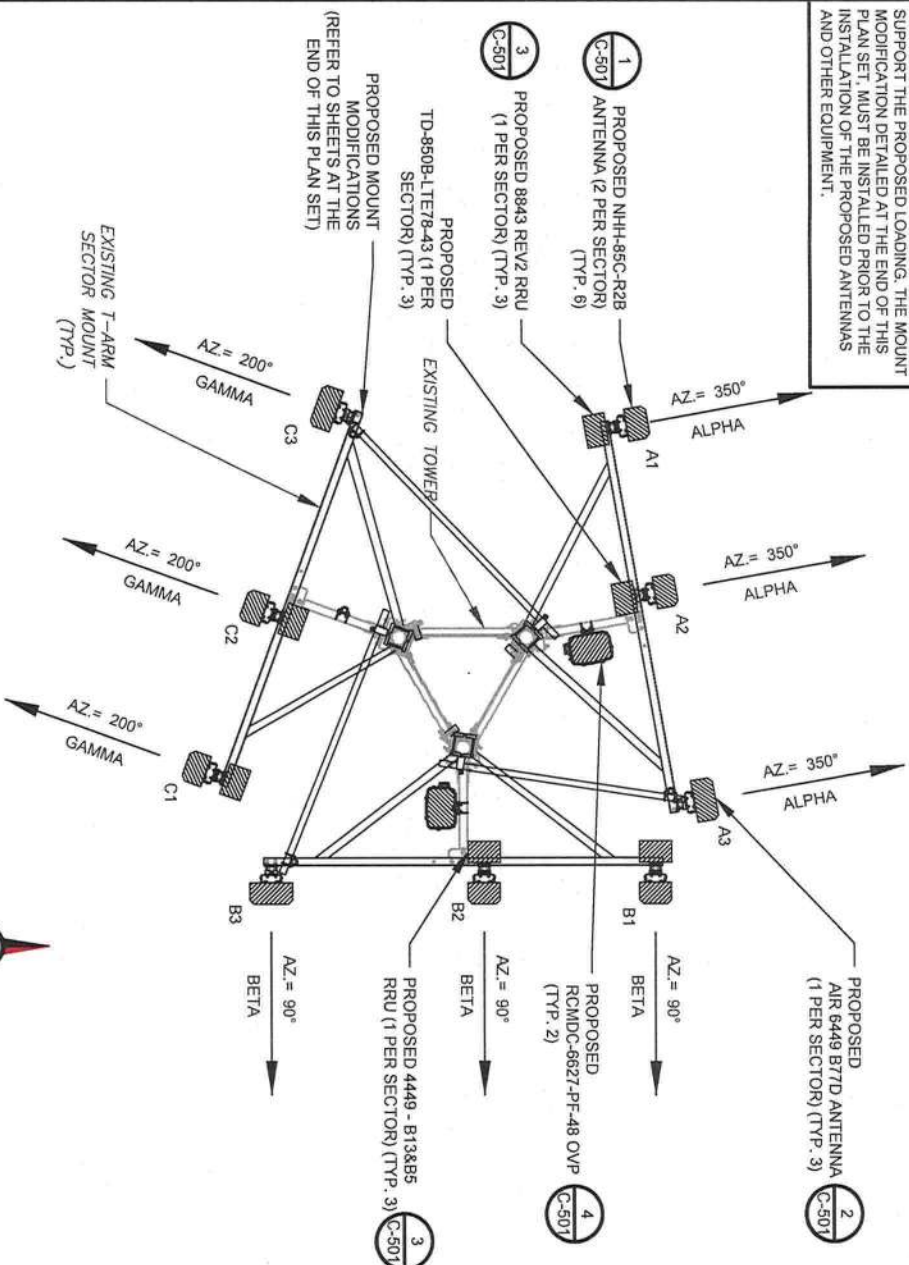


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CUSTOMER #:	131311

ANTENNA INFORMATION
& SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

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

NOTES

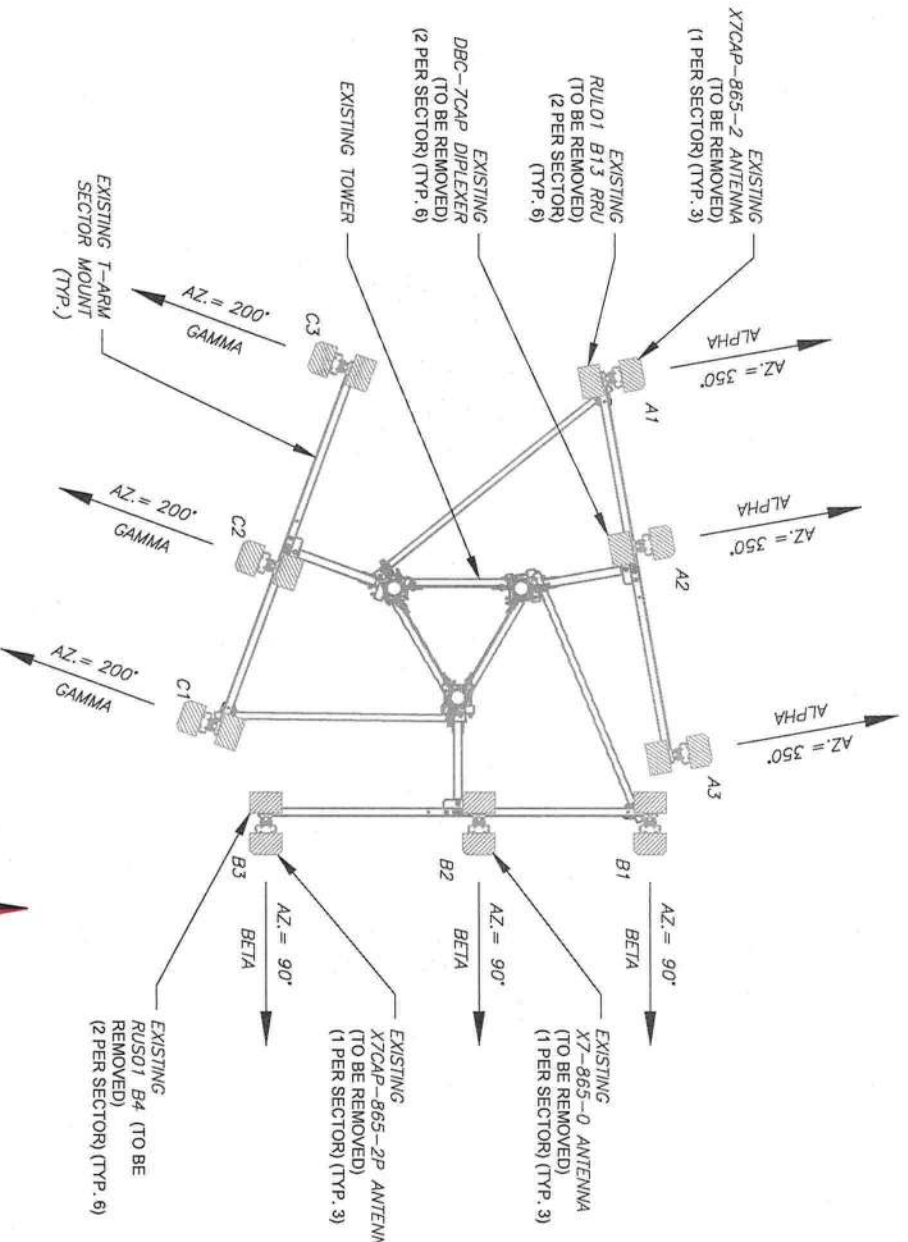
1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG, GC TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
3. ROUTE HYBRID JUMPERS TO AVOID DAMAGE FROM BEING STEPPED UPON.

STATUS ABBREVIATIONS
RMV: TO BE REMOVED
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS
JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

EXISTING ANTENNA SCHEDULE					
LOCATION			ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND
ALPHA	204'	350°	A1	X7CAP-865-2	850 CDMA
			A2	X7-865-0	700 LTE
			A3	X7CAP-865-2P	AMS LTE
BETA	204'	90°	B1	X7CAP-865-2	850 CDMA
			B2	X7-865-0	700 LTE
			B3	X7CAP-865-2P	AMS LTE
GAMMA	204'	200°	C1	X7CAP-865-2	850 CDMA
			C2	X7-865-0	700 LTE
			C3	X7CAP-865-2P	AMS LTE

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



EXISTING FIBER DISTRIBUTION/ OVP BOX			EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS	
-	-	(6) 1-5/8"	-	RMV	
-	-	(2) 1-5/8"	-	RMV	

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX			FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS	
(2) RCMDC-6627-PF-48	ADD	(6) 1-5/8"	-	RMV	
-	-	-	(2) 12X24 (1-5/8")	ADD	



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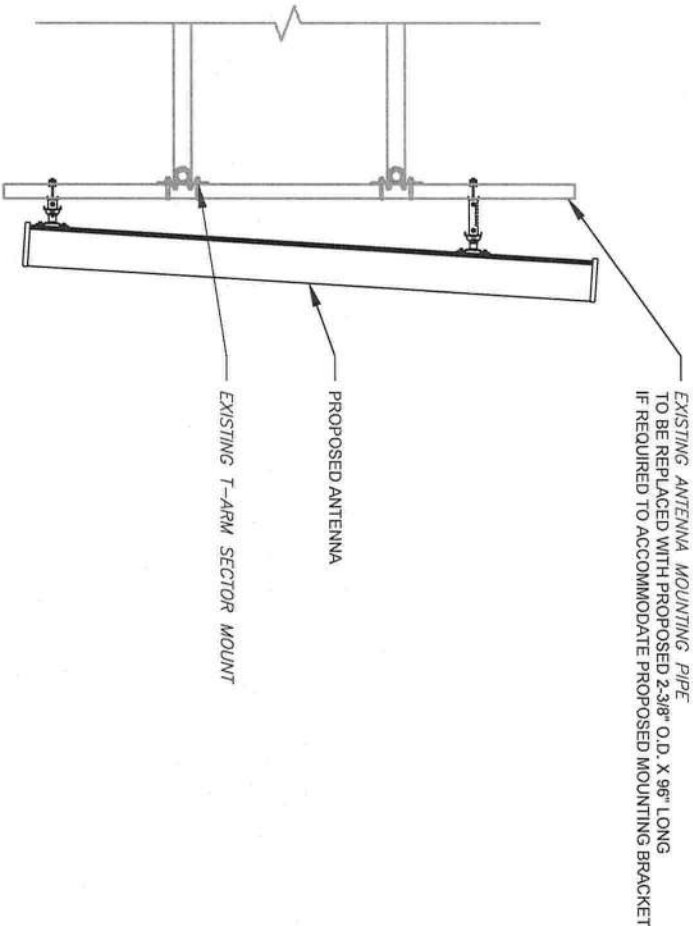
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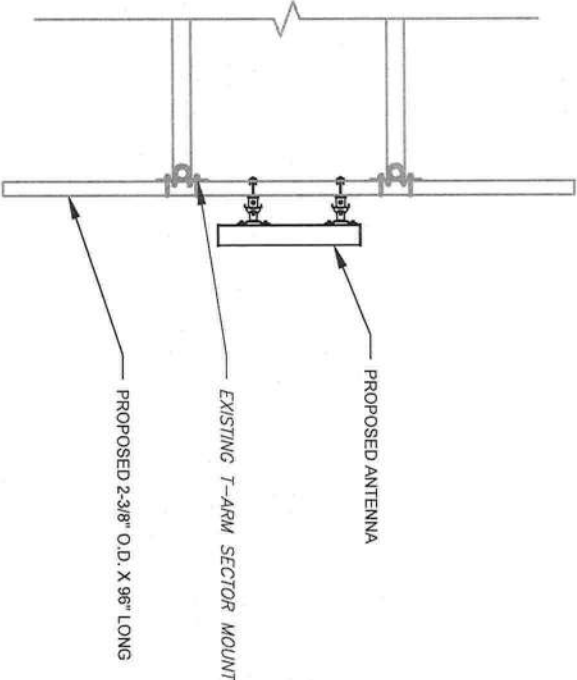
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CONSTRUCTION
DETAILS

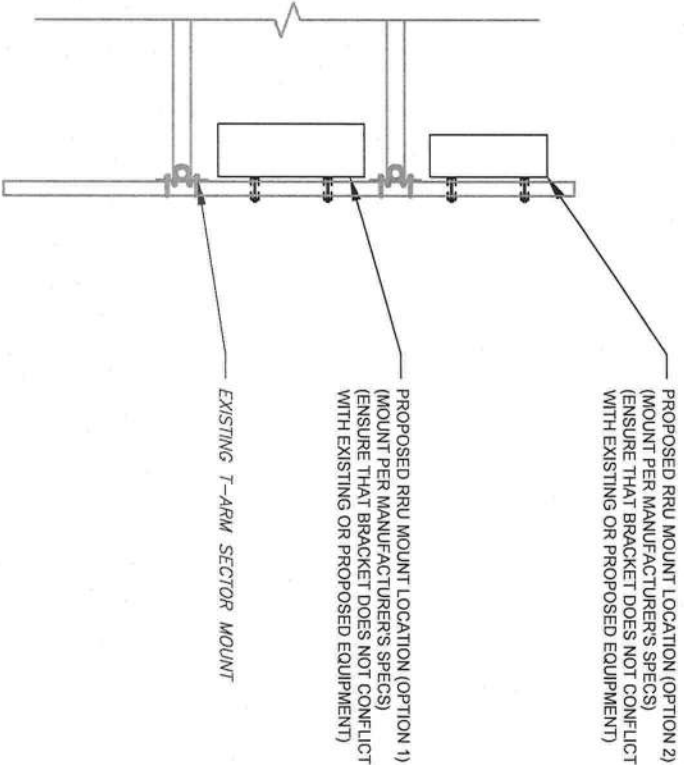
SHEET NUMBER:	REVISION:
C-501	0



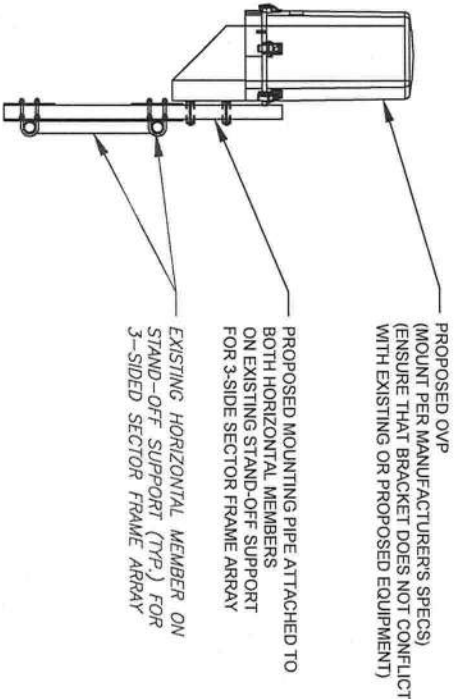
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



4 PROPOSED OVP MOUNTING
SCALE: N.T.S.

ELECTRICAL NOTES

1.00 CODES, STANDARDS, & SPECIFICATIONS

- STANDARDS AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND THE LOCAL UTILITY COMPANY.
- 1.04 ALL ELECTRICAL GROUNDING SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC.
- 1.05 CONTRACTOR SHALL MAINTAIN UL LISTED FIRE RATINGS AT ALL WALL PENETRATIONS.
- 1.06 CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 36" IN FRONT OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BY NEC. MINIMUM CLEARANCE SHALL BE OBSERVED FOR BOTH THE FRONT AND THE REAR OF THE METER H-FRAME RACK AND THE EQUIPMENT H-FRAME RACK.

2.00 GENERAL

- 2.01 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND ASSOCIATED FEES RELATED TO THE PROJECT AND SHALL DELIVER A COPY OF ALL PERMITS TO THE VERIZON REPRESENTATIVE.
- 2.02 CONTRACTOR SHALL SCHEDULE AND SHOULD ATTEND ALL INSPECTIONS REQUIRED BY THE JURISDICTION HAVING AUTHORITY.
- 2.03 CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC., FOR A COMPLETE WORKING ELECTRICAL INSTALLATION.
- 2.04 ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- 2.05 CONTRACTOR SHALL PROTECT ADJACENT EQUIPMENT AND FINISHES FROM DAMAGE AND SHALL REPAIR TO ORIGINAL CONDITION ANY ITEMS DAMAGED AS A RESULT OF THE WORK.
- 2.06 CONTRACTOR SHALL REPAIR ANY LANDSCAPING DISTURBED DURING CONSTRUCTION.
- 2.07 IF CONDUIT RUNS HAVE MORE THAN THREE (3) CONSECUTIVE 90 DEGREE TURNS, THE CONTRACTOR SHALL INSTALL PULL BOXES AS REQUIRED BY NEC.
- 2.08 CONTRACTOR SHALL INDICATE THE LOCATION OF ALL CAPPED UNDERGROUND SPARE CONDUIT ON THE RECORD DRAWINGS SUBMITTED TO THE OWNER.
- 2.09 CONTRACTOR SHALL COORDINATE EXACT ROUTING OF CONDUIT WITH OWNER. ALL CONDUIT SHALL BE ROUTED WITHIN 3 FEET, EITHER SIDE, OF PERIMETER FENCING

3.00 MATERIALS

- 3.01 ALL EQUIPMENT AND MATERIALS SHOWN SHALL BE CONSIDERED NEW UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- 3.02 FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED BY VERIZON.
- 3.03 CONTRACTOR SHALL PROVIDE AN UPDATED PANELBOARD DIRECTORY FOR THE PANEL FROM WHICH THE NEW VERIZON EQUIPMENT CIRCUIT WILL BE CONNECTED. CONTRACTOR SHALL SUBMIT UPDATED DIRECTORY IN A PLASTIC COVER TO THE BUILDING OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- 3.04 CONTRACTOR SHALL FIELD DETERMINE ACTUAL CONDUIT ROUTING AND SHALL OBTAIN APPROVAL FROM THE TOWER OWNER OF THE PROPOSED ROUTING PRIOR TO CONDUIT INSTALLATION.
- 3.05 ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION AND ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES CELSIUS.
- 3.06 ALL NEUTRAL CONDUCTORS SHALL HAVE WHITE INSULATION. ALL GROUND CONDUCTORS SHALL HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT PERMITTED.
- 3.07 CONTRACTOR SHALL SEAL ALL CONDUITS ENTERING AN ENCLOSURE WITH CONDUIT SEALANT THAT IS COMPATIBLE WITH THE INSULATION OF THE CONDUCTORS IN THE CONDUIT.
- 3.08 CONDUIT RUNS SHALL HAVE A CONTINUOUS DOWNWARD SLOPE AWAY FROM ALL EQUIPMENT TO PREVENT WATER INFILTRATION.
- 3.09 ALL CONDUIT SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON THE PLANS. WHEN CONDUIT IS ROUTED UNDER VEHICULAR TRAFFIC AREAS OR WHERE ABOVE GROUND AND SUBJECT TO DAMAGE, SCHEDULE 80 PVC CONDUIT SHALL BE UTILIZED. MANUFACTURED BEND RADI SHALL BE PER NEC.
- 3.10 CONTRACTOR SHALL PROVIDE TWO (2) 200 POUND TEST POLYETHYLENE PULL CORDS IN ALL CONDUITS AND ALL INNERDUCTS. PULL CORDS SHALL BE SECURED AT EACH END OF CONDUIT RUNS. ALL SPARE CONDUIT ENDS SHALL BE CAPPED WITH MANUFACTURED PVC FITTINGS.
- 3.11 CONTRACTOR SHALL BOND EACH METALLIC CONDUIT ENTERING A METALLIC ENCLOSURE WITH A #8 MIN AWG INSULATED COPPER BONDING JUMPER PER NEC. CONTRACTOR SHALL BOND ALL ELECTRICAL EQUIPMENT TO THE H-FRAME RACK ON WHICH EQUIPMENT IS MOUNTED WITH #8 MIN AWG INSULATED COPPER BONDING JUMPERS PER NEC.
- 3.12 CONTRACTOR SHALL IDENTIFY THE END OF ALL SPARE UNDERGROUND CONDUITS AND PROVIDE AND INSTALL 90 DEGREE ELBOWS WITH VERTICAL CONDUIT EXTENSIONS TO EXTEND 3" ABOVE FINISHED CRUSHED AGGREGATE GRADE. CONTRACTOR SHALL TERMINATE CONDUITS WITH MANUFACTURED CONDUIT CAPS THAT THE CONTRACTOR HAS PAINTED ORANGE.

- 3.13 CONTRACTOR SHALL PROVIDE AND INSTALL AN ENGRAVED PHENOLIC PLATE ON THE FRONT OF THE INTEGRATED LOAD CENTER. THE WORDING ON THE PLATE SHALL READ AS FOLLOWS: "MAXIMUM DRAW OF ALL RECEPTS AND EQUIPMENT ON THE LOAD CENTER CANNOT EXCEED 50KW. IF ADDITIONAL POWER IS REQUIRED, THE EXISTING 50KW GENERATOR MUST BE REPLACED."

4.00 PRE-CONSTRUCTION COORDINATION

- 4.01 CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND NOTE EXISTING CONDITIONS THAT MIGHT AFFECT THEIR WORK. ALL SUCH CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BID.
- 4.02 THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 4.03 CONTRACTOR SHALL VERIFY, PRIOR TO ROUGH-IN, THAT SITE CONDITIONS ALLOW FOR THE PLACEMENT OF THE ELECTRICAL EQUIPMENT AS SHOWN ON THE PLANS.
- 4.04 CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY REGARDING THE EXACT LOCATION OF THE TRANSFORMER, ALL METERING REQUIREMENTS, AND CONDUIT ROUTING BETWEEN TRANSFORMER AND METER.
- 4.05 CONTRACTOR SHALL COORDINATE WITH LOCAL TELCO UTILITY REGARDING THE EXACT LOCATION OF THE TELCO SERVICE ENTRY POINT.
- 4.06 CONTRACTOR SHALL COORDINATE WITH AUTHORITY HAVING JURISDICTION REGARDING LOCAL FROST LINE REQUIREMENTS FOR RACEWAY MATERIAL SELECTION AND INSTALLATION.
- 4.07 CONTRACTOR SHALL PERFORM AN ARC FLASH ANALYSIS AT THE INTEGRATED LOAD CENTER AND PROVIDE ARC FLASH LABEL PER NEC.
- 4.08 ALL CIRCUIT BREAKERS AND EQUIPMENT SHALL HAVE A MINIMUM AIC RATING OF 10,000 AMPS. IF THE RATING OF THE UTILITY TRANSFORMER PROVIDING THE ELECTRICAL SERVICE IS GREATER THAN 75 KVA, THE CONTRACTOR SHALL PERFORM A SHORT CIRCUIT ANALYSIS TO DETERMINE THE REQUIRED AIC RATING FOR THE CIRCUIT BREAKERS AND EQUIPMENT. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT (AFC) AT THE UTILITY SERVICE POINT. PROVIDE MAX AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT.

5.00 PANEL SCHEDULE LOADING NOTES

- 5.01 PANEL SCHEDULE SHOWS FINAL CONDITIONS BASED UPON LOADING AND DIRECTION PROVIDED BY VERIZON WIRELESS AND AMERICAN TOWER CORPORATION.
- 5.02 CONTRACTOR TO VERIFY ANY EXISTING LOADING NOT SHOWN IN THE FINAL PANEL CONFIGURATION OR EXPLICITLY CALLED OUT FOR REMOVAL WITH THE VERIZON CM PRIOR TO REMOVAL OF THE LOAD.
- 5.03 CONTRACTOR TO VERIFY ANY EXISTING LOAD DIRECTED TO REMAIN IN THE FINAL CONFIGURATION WITH THE PROPOSED LOADING SHOWN IN THE PANEL SCHEDULE WILL NOT EXCEED 80% OF THE PANEL'S MAXIMUM LOAD.
- 5.04 CONTRACTOR TO STOP WORK, AND NOTIFY THE EOR OF ANY DISCREPANCIES, FOR A REVISED AND APPROVED PANEL SCHEDULE.
- 5.05 PANEL SCHEDULE IS A TYPICAL REPRESENTATION OF WHAT IS EXPECTED ON VERIZON WIRELESS SITES IN THIS MARKET. ACTUAL LOADING MAY VARY BASED ON EXISTING CONDITIONS.

6.00 GROUNDING NOTES

- 6.01 THE GROUND RING SHALL CONSIST OF #2 AWG BARE SOLID TINNED COPPER (STC) CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 30" BELOW FINISHED GRADE (OR BELOW FROST LINE), LOCATE 24" MINIMUM AND 36" MAXIMUM FROM EQUIPMENT PAD AND FROM TOWER FOUNDATION. ALL CONNECTIONS SHALL BE MADE USING A PARALLEL TYPE EXOTHERMIC WELD, UNLESS NOTED OTHERWISE. WHERE THE GROUND RING DISTURBS EXISTING SITE GROUNDING, CONNECT GROUND RING TO EXISTING SITE CONDUCTORS SO AS TO MAINTAIN THE CONTINUITY OF THE EXISTING GROUND SYSTEM.
- 6.02 INSTALL GROUND RODS AS SHOWN AND AS REQUIRED. GROUND RODS TO BE COPPER CLAD STEEL, 5/8" DIAMETER AND 10FT IN LENGTH. SPACING BETWEEN GROUND RODS SHALL BE 10FT MINIMUM AND 15FT MAXIMUM. TOP OF GROUND ROD TO BE 30" MINIMUM BELOW GRADE (OR BELOW FROST LINE). BOND TOP OF GROUND ROD TO GROUND WIRE WITH EXOTHERMIC WELD. DO NOT EXOTHERMICALLY WELD ANYTHING TO GROUND ROD EXCEPT GROUND WIRE WHICH PASSES OVER TOP OF GROUND ROD.
- 6.03 GENERATOR GROUND RING SHALL HAVE A MINIMUM OF 4 GROUND RODS, INSTALLED AT THE CORNERS OF THE GROUND RING PLUS ADDITIONAL RODS AS REQUIRED TO COMPLY WITH THE SPACING REQUIREMENTS.
- 6.04 MINIMUM BEND RADIUS FOR #2 AWG GROUND WIRE IS 12". EXCEPT USE 24" FOR EQUIPMENT PAD GROUND RINGS.
- 6.05 GROUND ALL EXTERIOR EXPOSED METAL OBJECTS TO BURIED GROUND SYSTEM WITH #2 STC MECHANICALLY ATTACHED OR EXOTHERMICALLY WELDED TO OBJECTS AND EXOTHERMICALLY WELDED TO GROUND RING. USE TWO HOLE LUGS FOR CONNECTION TO FLAT METAL SURFACES. USE ONLY STAINLESS STEEL HARDWARE ON ALL MECHANICAL CONNECTIONS. CLEAN ALL SURFACES (AND STRIP PAINTED SURFACES) TO BARE BRIGHT METAL PRIOR TO MAKING GROUND CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO ALL MECHANICAL CONNECTIONS. APPLY ZINC RICH PAINT (COLD GALV) TO ALL EXOTHERMIC WELDS, AND TO ANY METAL EXPOSED BY CLEANING, STRIPPING, GRINDING, CUTTING OR DRILLING.
- 6.06 ALL GROUNDING CONDUCTORS ABOVE GRADE SHALL BE RUN IN 3/4" FLEXIBLE PVC CONDUIT. CONDUIT SHALL BEGIN WITHIN 3/4" OF ABOVE GROUND CONNECTION POINT. SHALL EXTEND 24" BELOW GRADE MINIMUM, AND SHALL BE FILLED WITH SEALANT AT ABOVE GROUND CONNECTION POINT. SECURE CONDUIT EVERY 24" ON VERTICAL RUNS AND EVERY 36" ELSEWHERE WITH NON-METALLIC TIES.
- 6.07 BOND GENERATOR TO GROUND RING WITH #2 STC MECHANICALLY FASTENED TO GENERATOR AND EXOTHERMICALLY WELDED TO GROUND RING. LOCATE GROUND LEADS AT TWO DIAGONALLY OPPOSITE CORNERS OF GENERATOR BY DRILLING AND BOLTING TWO HOLE LUG TO FINS ON GENERATOR BASE STRUCTURE. GROUND LEADS SHOULD RUN ALONG BASE OF GENERATOR AND TAKE SHORTEST PATH ACROSS CONCRETE PAD TO GRAVEL AREA, AND THEN CONTINUE TO GROUND RING.
- 6.08 ANY METAL FENCE POST WITHIN 6FT OF A GROUND ED METAL OBJECT SHALL BE BONDED TO THE EQUIPMENT GROUND RING WITH #2 STC CLAMPED OR EXOTHERMICALLY WELDED TO THE POST AND EXOTHERMICALLY WELDED TO GROUND RING. ANY FENCE WITH METAL LINE POSTS WITHIN 6FT OF THE GROUND RING SHALL HAVE THE LINE POSTS BONDED TO THE GROUND RING WITH #2 STC WITH #2 STC CLAMPED OR EXOTHERMICALLY WELDED TO THE POST AND EXOTHERMICALLY WELDED TO GROUND RING AT 20FT MAXIMUM INTERVALS AS MEASURED ALONG THE LENGTH OF THE FENCE.
- 6.09 NOTIFY CM TO INSPECT GROUND RING BEFORE BACKFILLING. CONTRACTOR SHALL HIRE A 3RD PARTY TO PERFORM AN IEEE81 FALL OF POTENTIAL METHOD GROUND TEST. MAXIMUM ALLOWABLE RESISTANCE TO GROUND IS 5 OHMS. PROVIDE ADDITIONAL GROUND SYSTEM COMPONENTS AS REQUIRED TO ACHIEVE THIS VALUE.
- 6.10 GROUNDING OF ALL ELECTRICAL EQUIPMENT SHALL BE AS PER NEC, MUNICIPAL AND UTILITY COMPANY REQUIREMENTS.
- 6.11 WHERE PROPANE TANK IS INSTALLED TO FUEL GENERATOR, BOND PROPANE TANK TO GROUND RING WITH A SINGLE # STC CLAMPED TO FILLER PIPE OF PROPANE TANK AND EXOTHERMICALLY WELDED TO GROUND RING. GROUND LEAD SHOULD RUN TO TANK SUPPORT AND TAKE SHORTEST PATH ACROSS CONCRETE PAD TO GRAVEL AREA. THEN CONTINUE TO GROUND RING. IF PROPANE TANK FUEL LINE IS METALLIC AND CROSSES EQUIPMENT GROUND RING, BOND FUEL LINE TO EQUIPMENT GROUND RING WHERE THE TWO LINES CROSS WITH A SINGLE #2 STC CLAMPED TO FUEL LINE AND EXOTHERMICALLY WELDED TO GROUND RING.



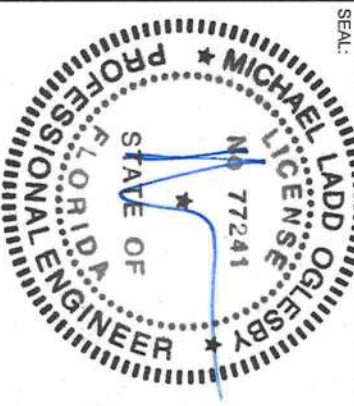
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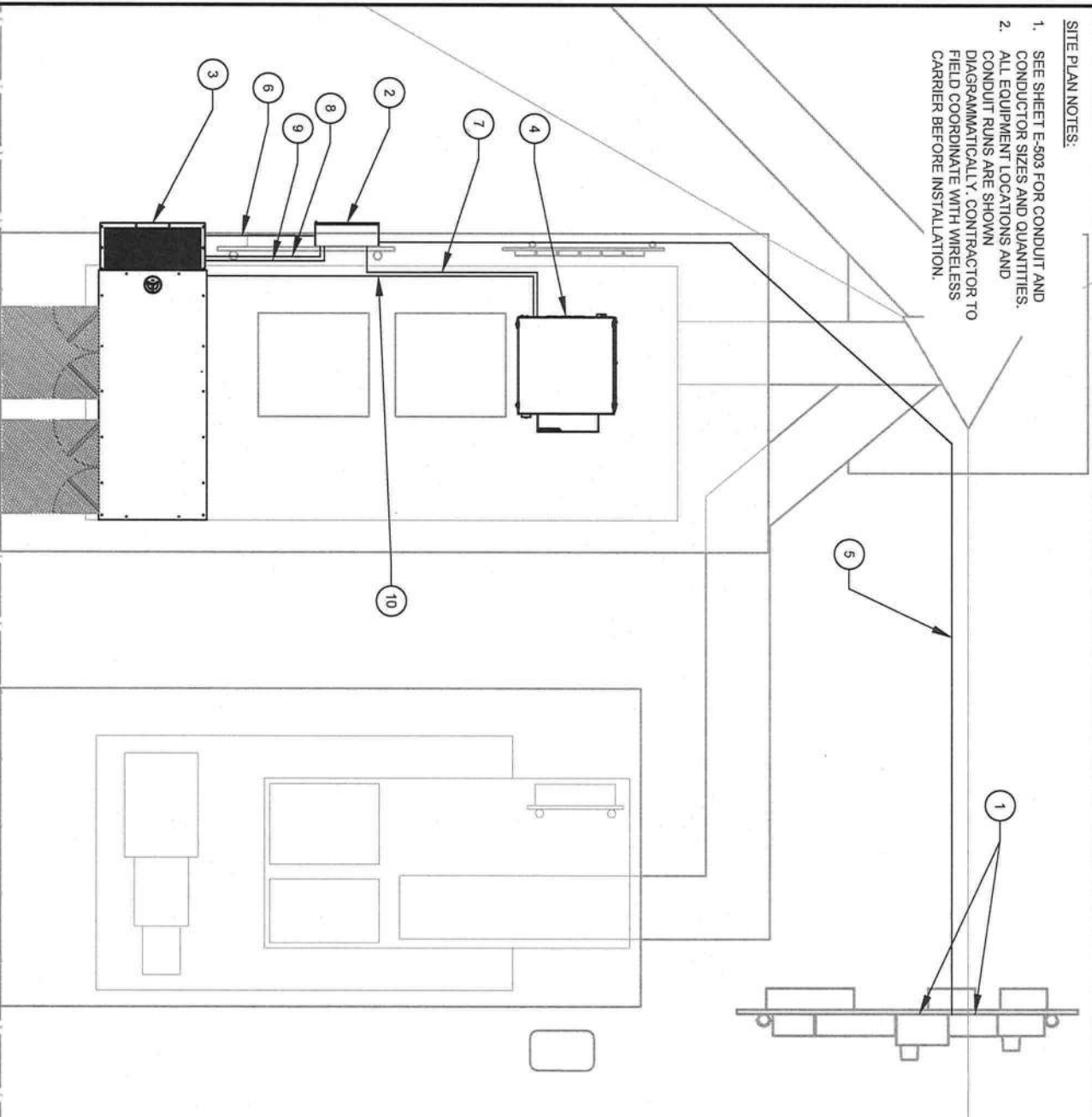


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ELECTRICAL NOTES

SHEET NUMBER:
E-100
REVISION:
0

- SITE PLAN NOTES:**
1. SEE SHEET E-503 FOR CONDUIT AND CONDUCTOR SIZES AND QUANTITIES.
 2. ALL EQUIPMENT LOCATIONS AND CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR TO FIELD COORDINATE WITH WIRELESS CARRIER BEFORE INSTALLATION.



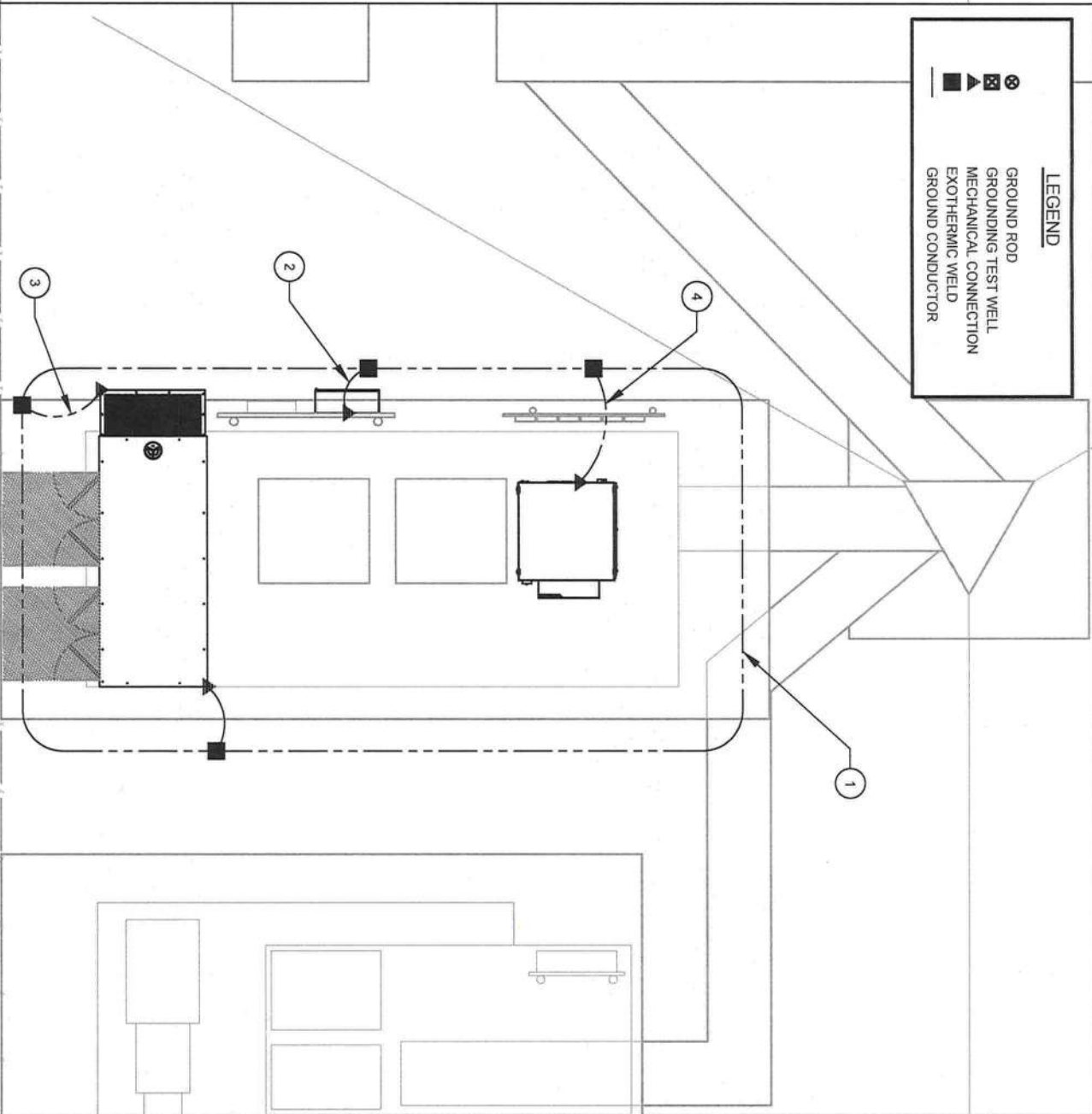
1 EQUIPMENT CONDUIT LAYOUT

SCALE: NOT TO SCALE



- CONDUIT KEYED NOTES:**
- | | | | |
|---|--|----|---|
| 1 | EXISTING VERIZON METER AND DISCONNECT | 8 | PROPOSED (1) 1" CONDUIT FOR ILC AND GENERATOR CONTROL CABLES |
| 2 | PROPOSED 200A VERIZON ILC | 9 | PROPOSED (4) #12 AWG AND (1) #12 AWG EG IN 1" CONDUIT FOR BATTERY CHARGER AND BLOCK HEATER |
| 3 | PROPOSED 50kW VERIZON GENERATOR | 10 | PROPOSED (2) 4 PAIR CAT 5 CABLES IN 3/4" CONDUIT FROM CONSOLIDATED EQUIPMENT CABINET TO GENERATOR |
| 4 | PROPOSED CONSOLIDATED EQUIPMENT CABINET | | |
| 5 | PROPOSED 2" POWER CONDUIT FROM DISCONNECT TO ILC | | |
| 6 | PROPOSED 2" POWER CONDUIT FROM GENERATOR TO ILC | | |
| 7 | PROPOSED 2" CONDUIT FROM ILC TO CONSOLIDATED EQUIPMENT | | |

- LEGEND**
- GROUND ROD
 - GROUNDING TEST WELL
 - MECHANICAL CONNECTION
 - EXOTHERMIC WELD
 - GROUND CONDUCTOR



2 EQUIPMENT GROUNDING LAYOUT

SCALE: NOT TO SCALE



- GROUNDING KEYED NOTES:**
- | | |
|---|--|
| 1 | EXISTING #2 SBTC EQUIPMENT GROUND RING (CONTRACTOR TO FIELD VERIFY LOCATION) |
| 2 | PROPOSED VERIZON ILC GROUNDING |
| 3 | PROPOSED VERIZON 50kW GENERATOR GROUNDING |
| 4 | PROPOSED VERIZON CONSOLIDATED EQUIPMENT GROUNDING |
| 5 | GROUNDING ELECTRODE CONDUCTOR (GEC) AND GROUNDING ELECTRODE SIZED PER NEC OR AS OTHERWISE INDICATED. |
| 6 | REFER TO SHEETS E-100 AND E-503 FOR GROUNDING DETAILS AND NOTES |



Kimley»Horn

REGISTRY NO: 696
421 FAYETTEVILLE ST., SUITE 600
RALEIGH, NC 27601

REV.	DESCRIPTION	BY	DATE
A	PRELIM	DJC	08/03/21
D	ISSUED FOR CONSTRUCTION	HG	08/17/21

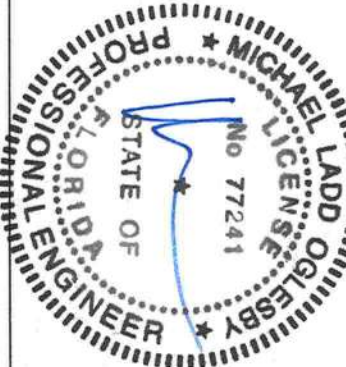
ATC SITE NUMBER:
303048

ATC SITE NAME:
LACROSSE FL 6

VERIZON SITE NAME:
ATC LACROSSE

SITE ADDRESS:
2166 SE CR18
LAKE CITY, FL 32024

SEAL:



DATE DRAWN:	08/17/21
ATC JOB NO:	13677441
CUSTOMER ID:	ATC LACROSSE
CUSTOMER #:	131311

**ELECTRICAL ROUTING
AND GROUNDING**

SHEET NUMBER:	REVISION:
E-501	0

- PANEL SCHEDULE NOTES:
- PANEL SCHEDULE IS A TYPICAL REPRESENTATION OF WHAT IS EXPECTED ON VERIZON WIRELESS SITES IN THIS MARKET. ACTUAL LOADING MAY VARY BASED ON EXISTING CONDITIONS.
 - IF THE EXISTING AND PROPOSED LOAD IS FOUND TO EXCEED THE MAXIMUM LOADING OF THE PANEL, WORK IS TO CEASE IMMEDIATELY AND THE EOR IS TO BE NOTIFIED.

VOLTAGE		120/240V		AIC RATING		22,000 AMPS									
MAIN BREAKER		200 AMP		BUS RATING		200 AMPS									
MOUNT		SURFACE		NEUTRAL BAR		YES									
ENCLOSURE TYPE		NEMA 3R		GROUND BAR		YES									
PANEL STATUS		PROPOSED		N TO GROUND BOND		YES									
PHASE, WIRES		SINGLE, 3		INTERNAL TVSS		YES									
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	Surge Suppressor	60	2	ON	0	1.25	2095		1.25	1136	ON	2	30	*RECTIFIER 2	2
3		60	2	ON	0	1.25		1645	1.25	1136	ON	2	30		4
5		**Lights	20	1	ON	540	1.25	2095		1.25	1136	ON	2	30	*RECTIFIER 3
7	GF	20	1	ON	180	1.00		1600	1.25	1136	ON	2	30		8
9	Battery Charger	20	1	ON	300	1.25	1795		1.25	1136	ON	2	30	*RECTIFIER 4	10
11	Block Heater	20	1	ON	1500	1.25		3295	1.25	1136	ON	2	30		12
13						1.25	1420		1.25	1136	ON	2	30	*RECTIFIER 5	14
15						1.25		1420	1.25	1136	ON	2	30		16
17						1.25	1420		1.25	1136	ON	2	30	*RECTIFIER 6	18
19						1.25		1420	1.25	1136	ON	2	30		20
21						1.25	1420		1.25	1136	ON	2	30	*RECTIFIER 7	22
23						1.25		1420	1.25	1136	ON	2	30		24
25						1.25	1420		1.25	1136	ON	2	30	*RECTIFIER 8	26
27		30	2	ON	1136	1.25		2840	1.25	1136	ON	2	30		28
29	*RECTIFIER 1	30	2	ON	1136	1.25	1600		1.00	180	ON	1	20	PROPOSED GF	30

OVERALL LOAD SUMMARY	
TOTAL SERVICE LOAD KVA	26.91
AMPS	112.10

NOTES:

Panel schedule shows final conditions based upon loading and direction provided by Verizon Wireless and American Tower Corporation.

Contractor to verify any existing loading not shown in the final panel configuration or explicitly called out for removal with the Verizon CM prior to removal of the load.

Contractor to verify any existing load directed to remain in the final configuration with the proposed loading shown in the panel schedule will not exceed 80% of the panels maximum load.

Contractor to stop work, and notify the EOR of any discrepancies, for a revised and approved panel schedule.

- * LOADING VALUES ARE BASED ON INFORMATION PROVIDED BY VERIZON WIRELESS
- ** LOADING VALUES ARE BASED ON INFORMATION PROVIDED BY ATC

PANEL SCHEDULE

SCALE: N.T.S.

PROPOSED (3) 3/0 + (1) #4 GND IN MINIMUM 2" CONDUIT FROM GENERATOR TO ILC.

PROPOSED 50KW GENERATOR

EXISTING CONDUIT AND CONDUCTOR FROM UTILITY

EXISTING VERIZON WIRELESS METER

EXISTING CONDUIT AND CONDUCTOR FROM METER TO DISCONNECT

EXISTING SERVICE DISCONNECT.

PROPOSED (3) 3/0 + (1) #4 GND IN MINIMUM 2" CONDUIT FROM DISCONNECT TO ILC.

FURNISH AND INSTALL 8 NEW 2 SPACE 2P-30A BREAKER MATCH EXISTING FRAME SIZE, TYPE, AND AIC RATING

RELOCATE ALL USABLE AND NEEDED BREAKERS TO PROPOSED LOAD CENTER (REFER TO PANEL SCHEDULE)

ONE LINE DIAGRAM

SCALE: N.T.S.



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RALEIGH, NC 27601

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A	PRELIM	DJC	08/03/21
B	ISSUED FOR CONSTRUCTION	HG	08/17/21
C			
D			

ATC SITE NUMBER:
303048

ATC SITE NAME:

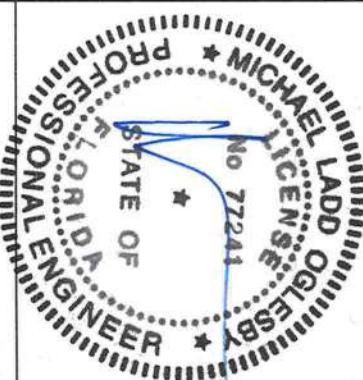
LACROSSE FL 6

VERIZON SITE NAME:

ATC LACROSSE

SITE ADDRESS:
2156 SE CR18
LAKE CITY, FL 32024

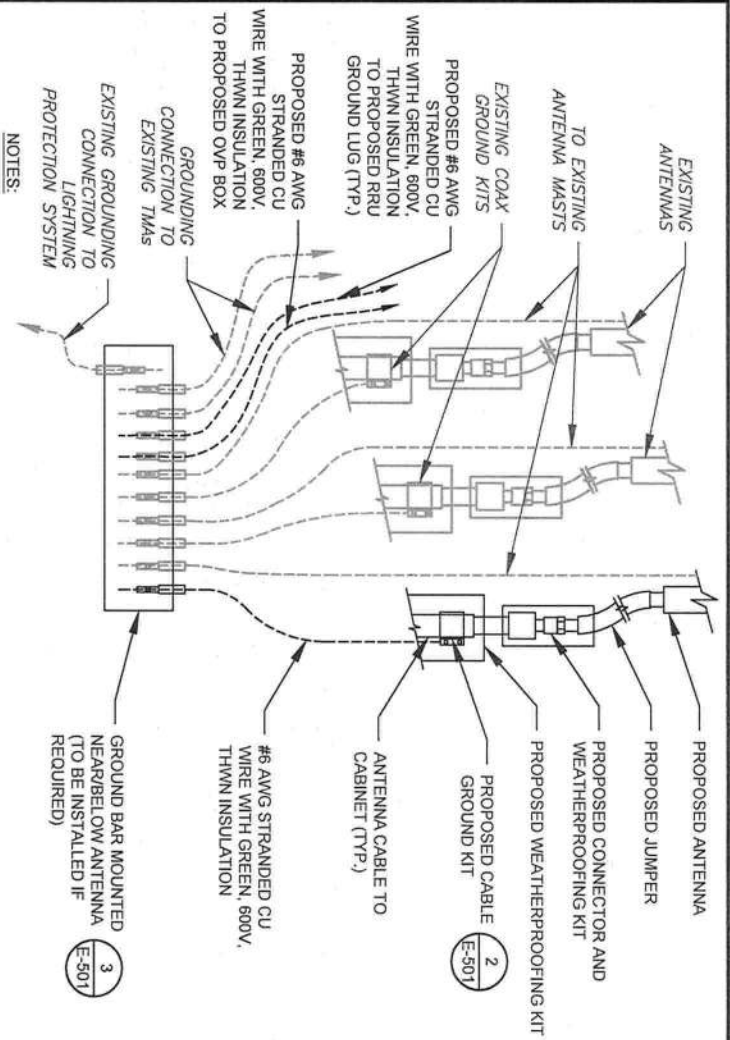
SEAL:



DATE DRAWN:	08/17/21
ATC JOB NO:	13677441
CUSTOMER ID:	ATC LACROSSE
CUSTOMER #:	131311

PANEL SCHEDULE &
ONE LINE DIAGRAM

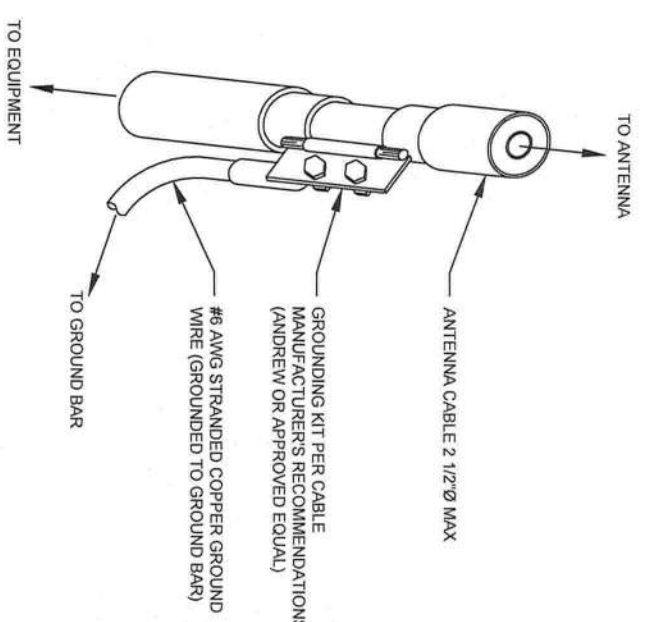
SHEET NUMBER: E-502	REVISION: 0
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- NOTES:
- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
 - SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

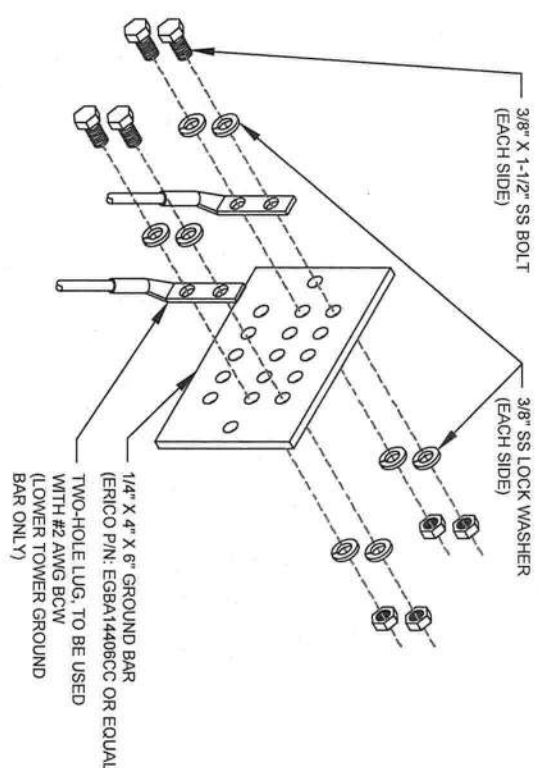
SCALE: N.T.S.



- GROUND KIT NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL

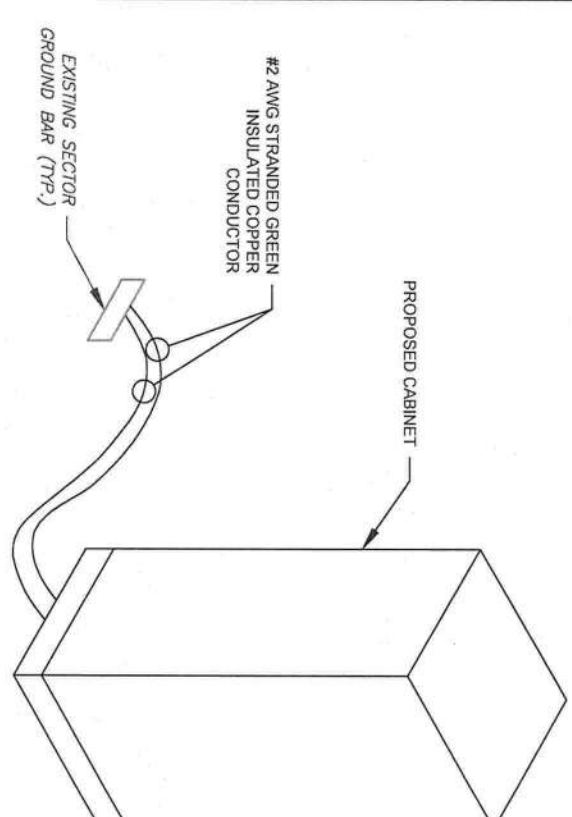
SCALE: N.T.S.



- GROUND BAR NOTES:
- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 - GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

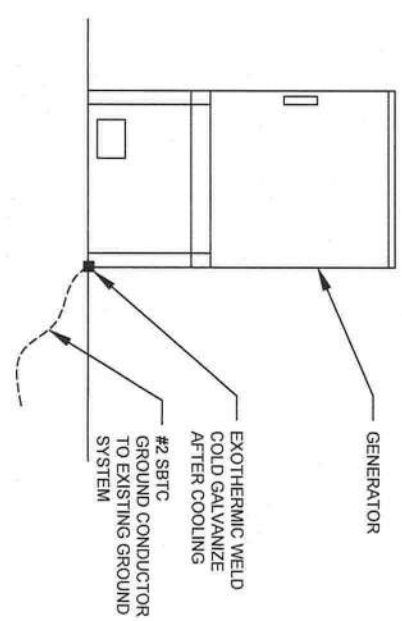
3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.



4 CABINET GROUNDING DETAIL

SCALE: N.T.S.



GENERATOR INSTALLATION NOTE:

INSTALL GENERATOR AND TRANSFER SWITCH WITH ALL SUPPLIED ACCESSORIES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESSORIES FOR THE EXHAUST SYSTEM, FUEL SYSTEM, ENCLOSURE INTEGRITY (CAPS, PLUGS, COVERS, ETC.), ELECTRICAL CONNECTIONS, AND GROUNDING CONNECTIONS.

5 GENERATOR GROUNDING

SCALE: N.T.S.



AMERICAN TOWER®

Kimley»Horn

REGISTRY NO: 696
421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

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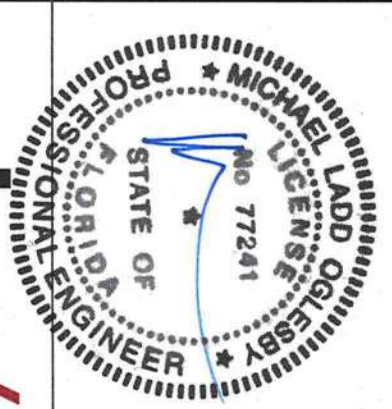
ATC SITE NUMBER:
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ATC SITE NAME:
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VERIZON SITE NAME:
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LAKE CITY, FL 32024

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DATE DRAWN:	08/17/21
ATC JOB NO:	13677441
CUSTOMER ID:	ATC LACROSSE
CUSTOMER #:	131311

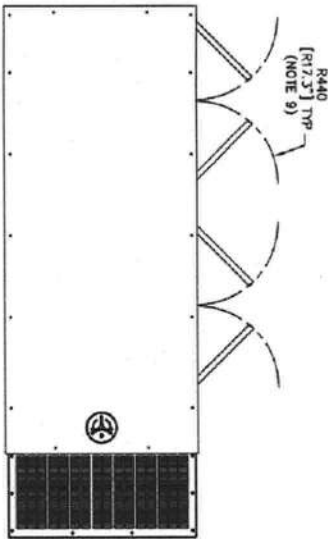
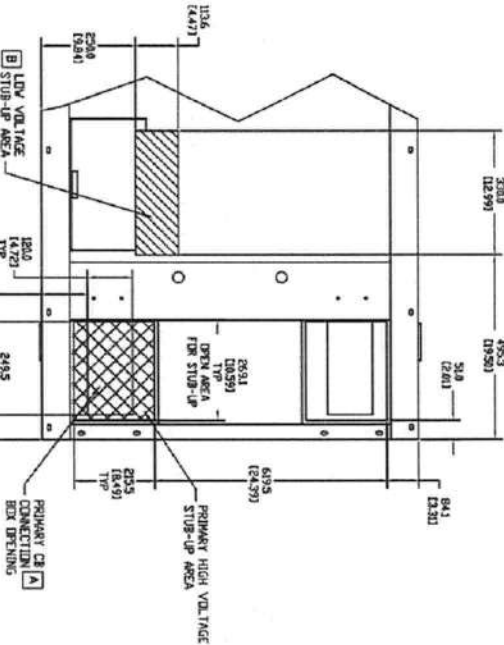
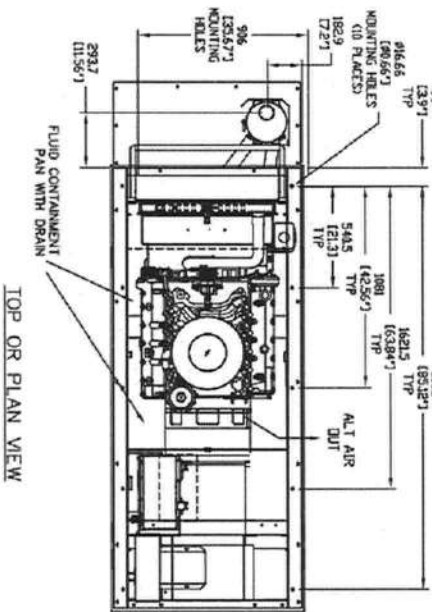


verizon

GROUNDING DETAILS

SHEET NUMBER: **E-503** REVISION: **0**

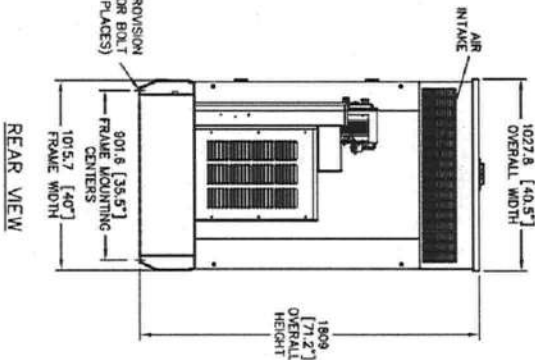
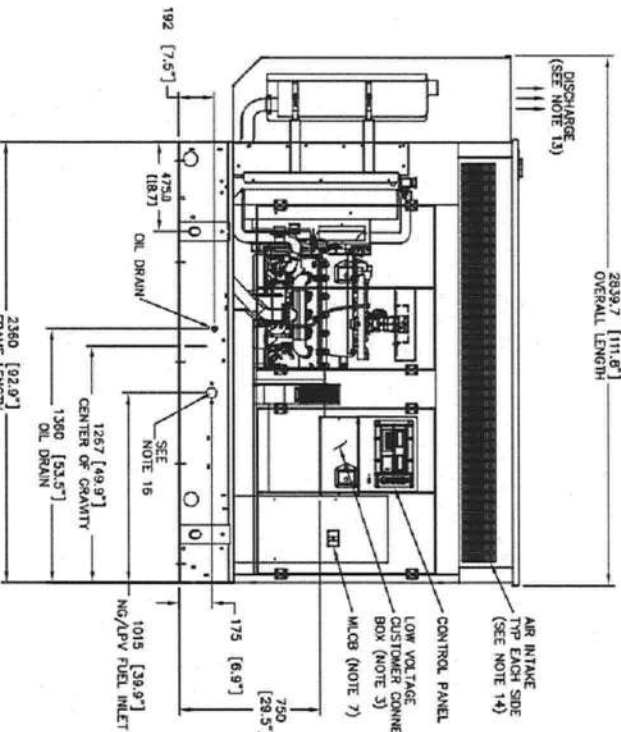
0J2539C



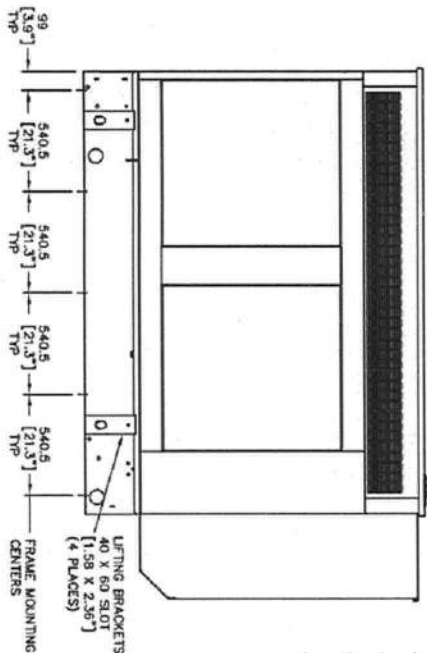
RECOMMENDED ELECTRICAL STUB-UPS (SEE TOP VIEW)		
DESCRIPTION	INSIDE BASE	
AC LOAD LEAD CONDUIT	[A]	
1) LOW VOLTAGE CUSTOMER CONNECTION BOX FOR 120VAC GFCI OUTLET, STANDARD BLOCK HEATER, BATTERY CHARGER AND OTHER 120 VAC OPTIONS.	[B]	SEE NOTE 3
2) TRANSFER SWITCH/ COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT WITH AC WIRING.		

STUB-UP AREA DETAILED VIEW

TOP OR PLAN VIEW



RIGHT SIDE VIEW



- NOTES:
1. THE LEFT SIDE OF THE GENERATOR IS SERVICE ACCESSIBLE.
 2. 10 AMP BATTERY CHARGER INCLUDED WITH GENERATOR.
 3. CONNECTION POINTS FOR CONTROL WIRES.
 4. BOTTOM OF LOW VOLTAGE CUSTOMER CONNECTION BOX HAS KNOCKOUTS FOR 1/2" & 3/4" CONDUIT FITTINGS.
 5. GENERATOR MUST BE GROUNDED.
 6. 12 VOLT NEGATIVE GROUND SYSTEM.
 7. OPTIONAL REMOTE EMERGENCY STOP, SHIPPED LOOSE WITH GENERATOR.
 8. MAIN LINE CIRCUIT BREAKER (MCB), AC LOAD LEAD CONNECTION AND ALUMINUM 120/240V CONNECTION.
 9. LEVEL 2A SOUND ATTENUATED ENCLOSURE STANDARD WITH GENERATOR.
 10. DOORS MUST BE ABLE TO OPEN 90 DEG. TO BE REMOVED.
 11. 'A' IS THE STUB UP AREA FOR THE W/GB AND NEUTRAL CONNECTION.
 12. SEE DRAWING 002850 FOR DUCT REMOVAL. REMOVAL OF FRONT DUCT WILL PROVIDE ACCESS TO MUFFLER.
 13. 120VAC ENGINE BLOCK HEATER.
 14. MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
 15. MUST ALLOW FREE FLOW OF INTAKE AIR. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
 16. IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLETES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
 17. ENGINE SERVICE CONNECTIONS: 1/4" NPT COUPLING FUEL INLET, 1/4" NPT COUPLING FUEL INLET, 1/4" NPT COUPLING FUEL INLET.
 18. WEIGHT DATA (INCLUDES WOODEN SHIPPING SKID): STEEL ENCLOSED GENERATOR- 1278 KG [2818 LBS] ALUMINUM ENCLOSED GENERATOR- 1141 KG [2515 LBS]

[UNITS: mm (INCHES)]

LEFT SIDE VIEW

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INSTALLATION DRAWING

INSTALLATION G6.8L G3 50KW SSS			GENERAL POWER SYSTEMS		
Y02 G6.8 LITER DIRECT DRIVE			Waukesha P.O. BOX 8 WAUKESHA, WIS. 53187		
SINGLE SIDE SERVICE			FILE NAME	0J2539C.DWG	SIZE B
LEVEL 2 ACOUSTIC ENCLOSURE			SCALE	NTS	FIRST USE CD 1463267
ISSUE DATE 11/15/12			DWG NO.	0J2539C	REV C

1 50KW GENERATOR DETAIL

SUPPLEMENTAL

SHEET NUMBER: R-602
REVISION: 0



Maser Consulting
4720 Salisbury Road
Jacksonville, FL 32256
877.627.3772
shawn.sacks@colliersengineering.com

Antenna Mount Analysis Report

Mount Analysis

SMART Tool Project #: 10057764
Maser Consulting Project #: 21944603A

May 11, 2021

Site Information

Site ID: 131311-VZW / ATC LACROSSE
Site Name: ATC LACROSSE
Carrier Name: Verizon Wireless
Address: 2156 SE CR18
Lake City, Florida 32024
Columbia County
Latitude: 29.951500°
Longitude: -82.570722°

Structure Information

Tower Type: 250-Ft Guyed
Mount Type: 13.00-Ft Combined T-Frame

FUZE ID # 16276457

Analysis Results

Combined T-Frame: >200.0% Fail

Report Prepared By: Garrett Smith



Digitally signed by Justin Linette
Date: 2021.05.11 11:13:07 -0407

Mount Structural Analysis Report
(1) 13.00-Ft Combined T-Frame

May 11, 2021
Site ID: 131311-VZW / ATC LACROSSE
Page | 3

Final Loading Configuration:

The following equipment has been considered for the analysis of the mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
203.00	204.00	6	Commscope	NHH-85C-R2B	Added
		3	Ericsson	AIR 6449	
		3	Ericsson	4449	
		3	Ericsson	8843	
		3	Commscope	TD-850B-LTE78-43	
		2	Raycap	RHSDC-6627-PF-48	

Standard Conditions:

- All engineering services are performed on the basis that the information provided to Maser Consulting and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting to verify deviation will not adversely impact the analysis.
- Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.
- For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
- All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
- All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

1 MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: R-603
REVISION: 0

