



VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: THOMAS ARP3 RAW LAND FL  
 ATC SITE NUMBER: 417361  
 VERIZON WIRELESS SITE NAME: THOMAS  
 VERIZON WIRELESS SITE NUMBER: 228810  
 VERIZON WIRELESS FUZE PID: 16276345  
 VERIZON WIRELESS MDG LOCATION CODE: 5000025813  
 SITE ADDRESS: 744 NW SPRADLEY RD  
 LAKE CITY, FL 32055-5951



LOCATION MAP

VERIZON WIRELESS  
ANTENNA AMENDMENT DRAWINGS



TEP OPCO LLC  
 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-6351  
 www.tepgroup.net  
 FL COA#: 31011

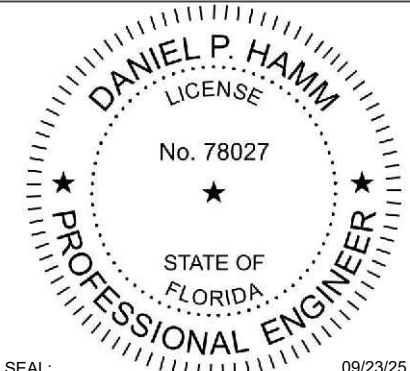
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REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	SSG	08/21/25
O	100% CONSTRUCTION	VDS	09/23/25

DIGITAL/ELECTRONIC SEAL:  
 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DANIEL P. HAMM P.E. ON THE DATE ADJACENT TO THE SEAL.

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SEAL: 09/23/25



DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

<p><b>COMPLIANCE CODE</b></p> <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> <ol style="list-style-type: none"> <li>2023 FLORIDA BUILDING CODE, 8TH EDITION</li> <li>ANSI/TIA-222-H</li> <li>8TH EDITION FLORIDA FIRE PREVENTION CODE</li> <li>2020 NATIONAL ELECTRICAL CODE (NFPA 70)</li> <li>CITY/COUNTY ORDINANCES</li> </ol> <p>DESIGN CRITERIA FOR TOWER STRUCTURAL ANALYSIS BY AMERICAN TOWER CORPORATION DATED APRIL 6, 2023:</p> <p>ULTIMATE WIND SPEED: 117 MPH (3-SECOND GUST)          SERVICE WIND SPEED: 30 MPH          RISK CATEGORY: II          EXPOSURE CATEGORY: C          TOPOGRAPHIC CATEGORY: 1</p>
<p><b>UTILITY COMPANIES</b></p> <p>POWER COMPANY: SUWANNEE VALLEY          PHONE: (386) 362-2226</p> <p>TELEPHONE COMPANY: AT&amp;T          PHONE: (800) 331-0500</p>

<p><b>PROJECT SUMMARY</b></p> <p><u>SITE ADDRESS:</u>          744 NW SPRADLEY RD          LAKE CITY, FL 32055-5951          COUNTY: COLUMBIA</p> <p><u>REGISTERED COORDINATES:</u>          LATITUDE: 30° 21' 58.42" N (NAD 83)          LONGITUDE: 82° 37' 45.91" W (NAD 83)</p> <p><u>GEOGRAPHIC COORDINATES:</u>          LATITUDE: 30.36624          LONGITUDE: -82.62942          GROUND ELEVATION: 115' SE</p> <p><u>ZONING INFORMATION:</u>          JURISDICTION: COLUMBIA COUNTY          PARCEL ID: 32-1S-17-04619-000</p>				
<p><b>PROJECT TEAM</b></p> <table border="0"> <tr> <td><u>TOWER OWNER REPRESENTATIVE:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</td> <td><u>APPLICANT:</u> VERIZON WIRELESS</td> </tr> <tr> <td><u>ENGINEER:</u> TEP OPCO, LLC 326 TRYON ROAD RALEIGH, NC 27603</td> <td><u>PROPERTY OWNER:</u> NORRIS RONALD E JR 501 UPLAND DR WILMINGTON, NC 28411</td> </tr> </table>	<u>TOWER OWNER REPRESENTATIVE:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801	<u>APPLICANT:</u> VERIZON WIRELESS	<u>ENGINEER:</u> TEP OPCO, LLC 326 TRYON ROAD RALEIGH, NC 27603	<u>PROPERTY OWNER:</u> NORRIS RONALD E JR 501 UPLAND DR WILMINGTON, NC 28411
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<p><b>PROJECT LOCATION DIRECTIONS</b></p> <p>FROM I-10 TAKE EXIT 303 ONTO US-441.2 MILES KEEP LEFT TOWARD FRAGO500 FT TURN LEFT ONTO N US HIGHWAY 442.8 MILES TURN LEFT ONTO SPRADLEY RD.6 MILES ACCESS ROAD ON LEFT</p>				

<p><b>PROJECT DESCRIPTION</b></p> <p>VERIZON WIRELESS IS PROPOSING THE FOLLOWING WORK TO BE COMPLETED ON AN EXISTING 300' GUYED TOWER:</p> <p><u>TOWER WORK:</u>          REMOVE (3) T-ARM MOUNT(S), (9) ANTENNA(S), (3) RRU(s), (12) TMA(s), AND (12) 1-5/8" COAX CABLE(S).</p> <p>INSTALL (3) SECTOR FRAME(S), (9) ANTENNA(S), (3) RRU(s), (1) OVP(s), AND (1) 6X12 (1.43") HYBRID CABLE(S).</p> <p>EXISTING (1) OVP(s) AND (1) 6X12 (1.43") HYBRID CABLE(S) TO REMAIN.</p> <p><u>GROUND WORK:</u>          REMOVE (1) CDMA CABINET(S), (1) CDMA AMPLIFIER RACK(S), (1) 6201 CABINET(S), (1) 50KW DIESEL GENERATOR(S), (6) RRU(s), AND (2) +24 VRLA BATTER(IES).</p> <p>INSTALL (1) 900A -48VDC POWER PLANT(S), (1) 50KW DIESEL GENERATOR(S), (1) 19" RACK(S), (1) OVP6(s), (1) ROUTER(S), (1) UPCONVERTER(S), (1) BASEBAND(S), AND (1) SITEBOSS(ES).</p>
<p><b>PROJECT NOTES</b></p> <ol style="list-style-type: none"> <li>THE FACILITY IS UNMANNED.</li> <li>A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.</li> <li>THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.</li> <li>NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.</li> <li>HANDICAP ACCESS IS NOT REQUIRED.</li> <li>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).</li> </ol>

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C-001	OVERALL SITE PLAN	0	09/23/25	VDS	
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C-102	DETAILED EQUIPMENT PLAN	0	09/23/25	VDS	
C-201	TOWER ELEVATION	0	09/23/25	VDS	
C-401	ANTENNA INFORMATION & SCHEDULE	0	09/23/25	VDS	
C-501	CONSTRUCTION DETAILS	0	09/23/25	VDS	
E-101 - E-102	EXISTING & PROPOSED PANEL SCHEDULE	0	09/23/25	VDS	
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E-501	GROUNDING DETAILS	0	09/23/25	VDS	
R-601 - R-608	SUPPLEMENTAL				
<b>CONTRACTOR PMI REQUIREMENTS</b>					
PMI ACCESSED AT:	HTTPS://PMI.VZWSMART.COM				
SMART TOOL VENDOR PROJECT NUMBER:	10316998				
VZW LOCATION CODE (PSLC):	228810				
***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT					
MOUNT MODIFICATION REQUIRED:	YES (MOUNT REPLACEMENT)				
VZW APPROVED SMART KIT VENDORS:	REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS				

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**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 (PPC)
  - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES
  - E. TOWER LIGHTING
  - F. GENERATORS & LIQUID PROPANE TANK
  - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - H. ANTENNAS (INSTALLED BY OTHERS)
  - I. TRANSMISSION LINE
  - J. TRANSMISSION LINE JUMPERS
  - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - L. TRANSMISSION LINE GROUND KITS
  - M. HANGERS
  - N. HOISTING GRIPS
  - O. BTS EQUIPMENT
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 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. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.

29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.

30. 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.

31. 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.

32. 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.

33. 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.

34. 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 APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.

35. 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/HYBRID 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 ANTENNAS 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.

E. INSTALL COAXIAL/HYBRID 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/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

2. ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:

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

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

**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.**



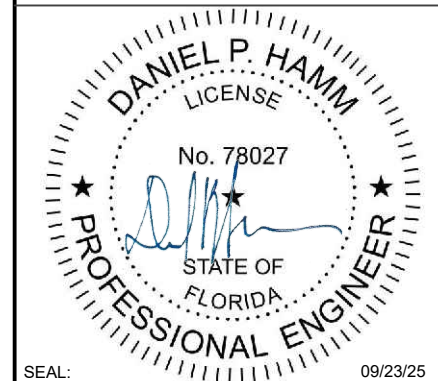
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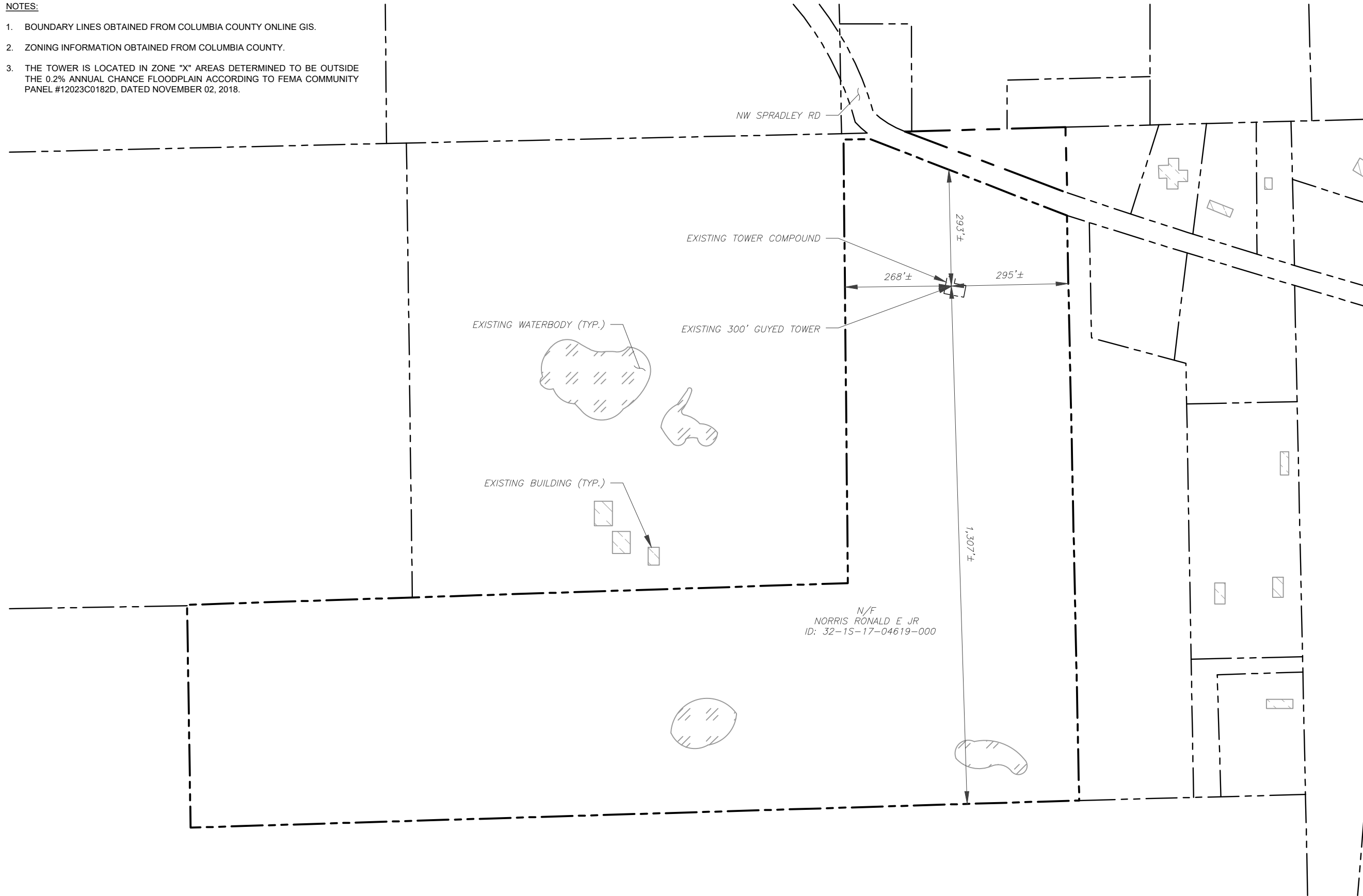
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GENERAL NOTES	
SHEET NUMBER: <b>G-002</b>	REVISION: <b>0</b>

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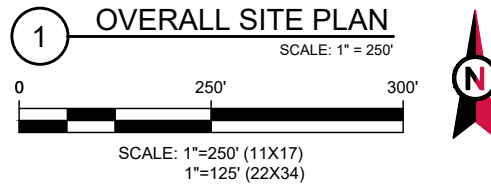
**NOTES:**

1. BOUNDARY LINES OBTAINED FROM COLUMBIA COUNTY ONLINE GIS.
2. ZONING INFORMATION OBTAINED FROM COLUMBIA COUNTY.
3. THE TOWER IS LOCATED IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #12023C0182D, DATED NOVEMBER 02, 2018.



**LEGEND**

	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING LEASE AREA



TEP OPCO LLC  
326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net  
FL COA#: 31011

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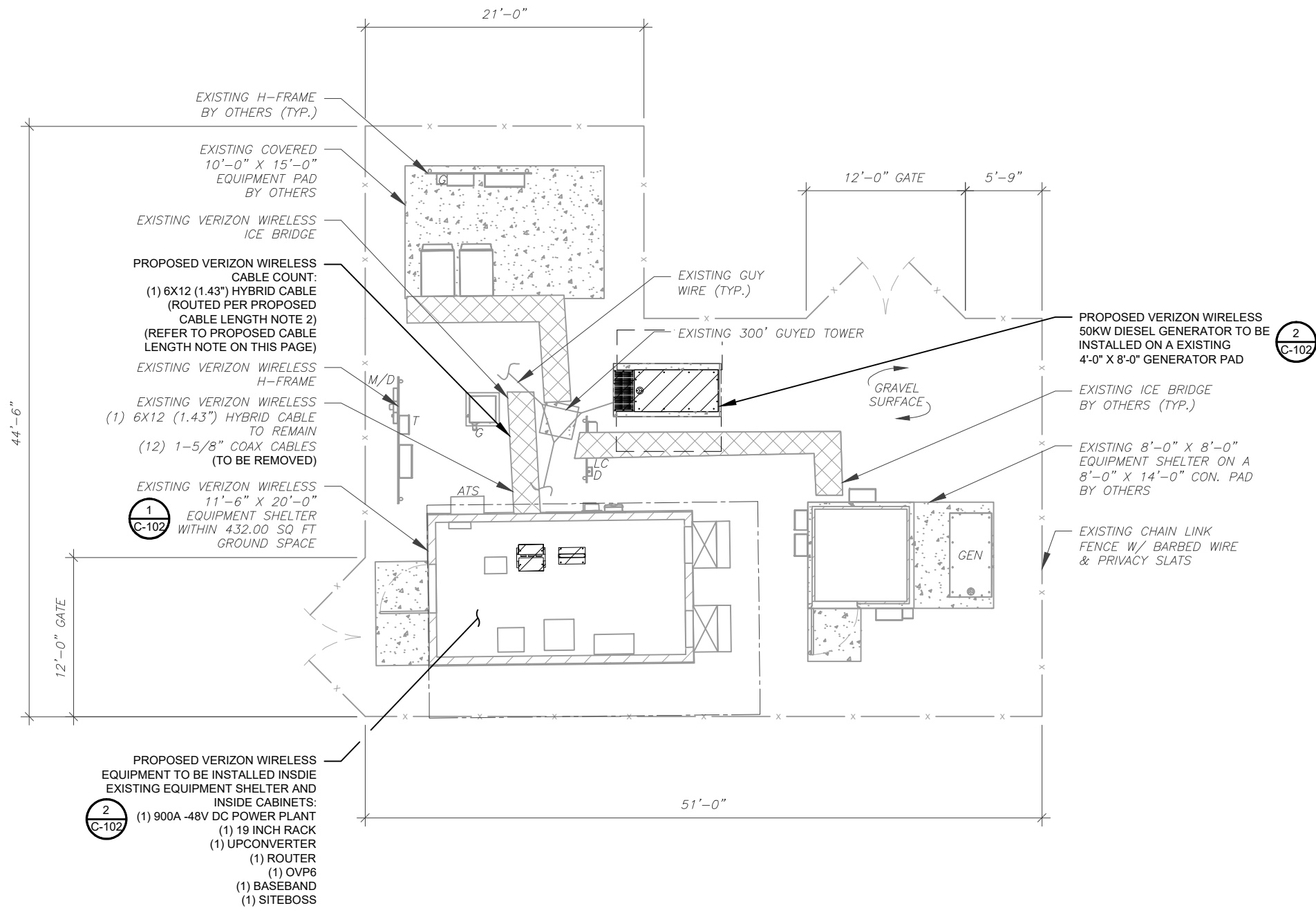
<b>OVERALL SITE PLAN</b>	
SHEET NUMBER: <b>C-001</b>	REVISION: <b>0</b>

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**SITE PLAN NOTES:**

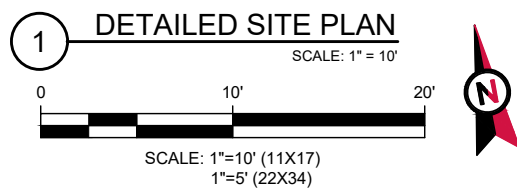
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE VERIZON 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
x	CHAINLINK FENCE



**PROPOSED CABLE NOTES:**

- ESTIMATED LENGTH OF PROPOSED CABLE IS **360'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



TEP OPCO LLC  
 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-6351  
 www.tepgroup.net  
 FL COA#: 31011

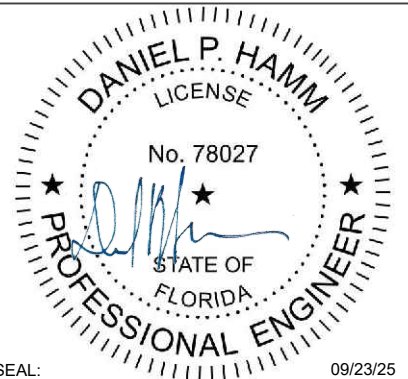
TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

ATC SITE NUMBER:  
**417361**  
 ATC SITE NAME:  
**THOMAS ARP3 RAW LAND FL**  
 VERIZON WIRELESS SITE NAME:  
**THOMAS**  
 SITE ADDRESS:  
 744 NW SPRADLEY RD  
 LAKE CITY, FL 32055

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	SSG	08/21/25
B	100% CONSTRUCTION	VDS	09/23/25

**DIGITAL/ELECTRONIC SEAL:**  
 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DANIEL P. HAMM P.E. ON THE DATE ADJACENT TO THE SEAL.

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DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

**DETAILED SITE PLAN**

SHEET NUMBER:  
**C-101**  
 REVISION:  
**0**

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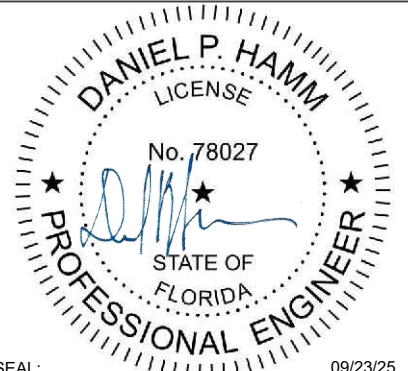
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**417361**  
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**THOMAS ARP3 RAW LAND FL**  
VERIZON WIRELESS SITE NAME:  
**THOMAS**  
SITE ADDRESS:  
**744 NW SPRADLEY RD  
LAKE CITY, FL 32055**

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	SSG	08/21/25
0	100% CONSTRUCTION	VDS	09/23/25

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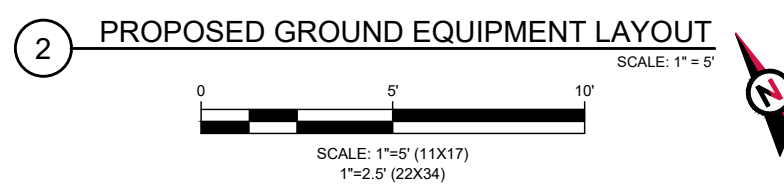
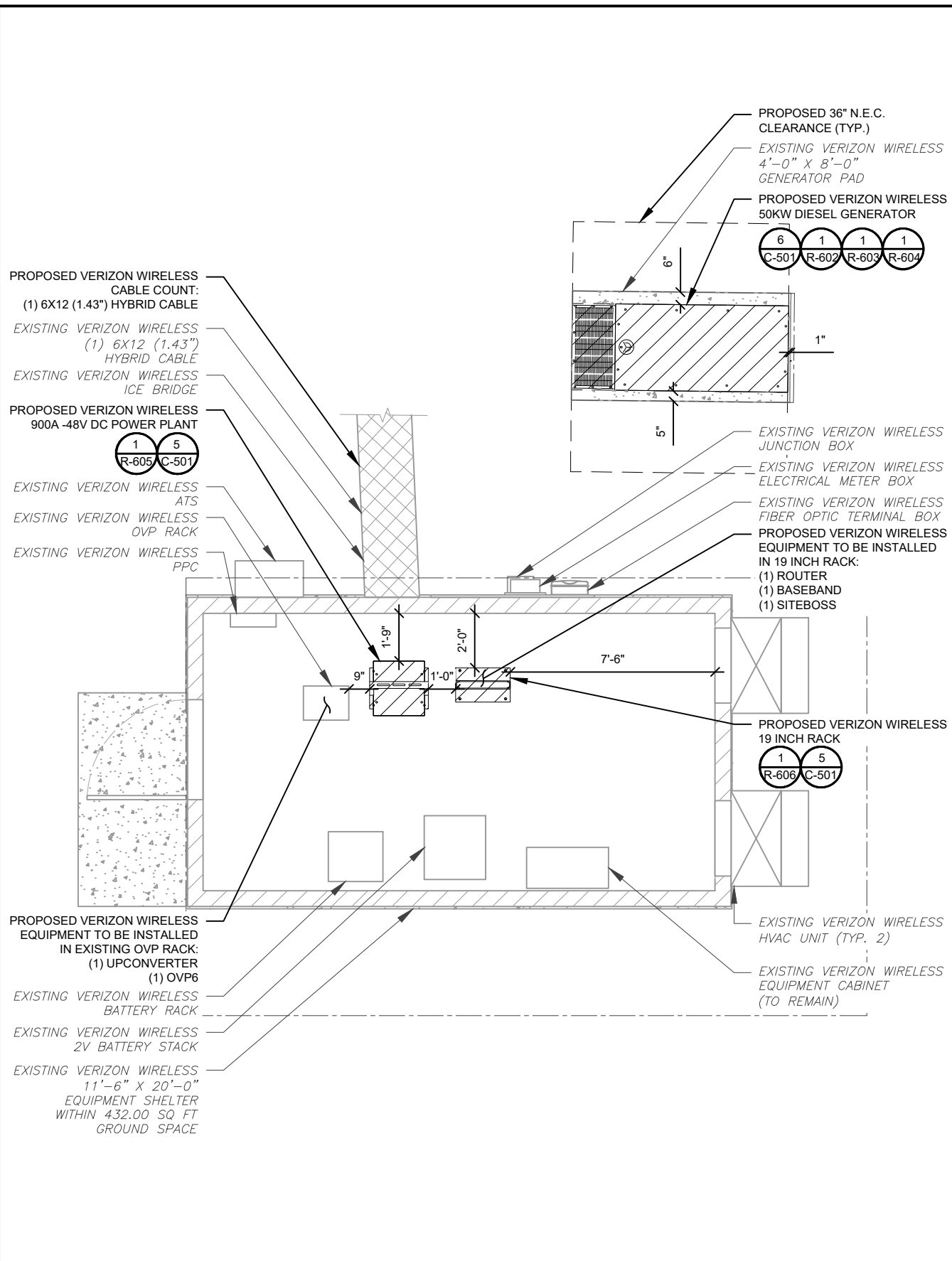
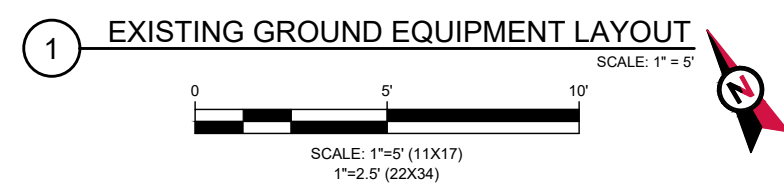
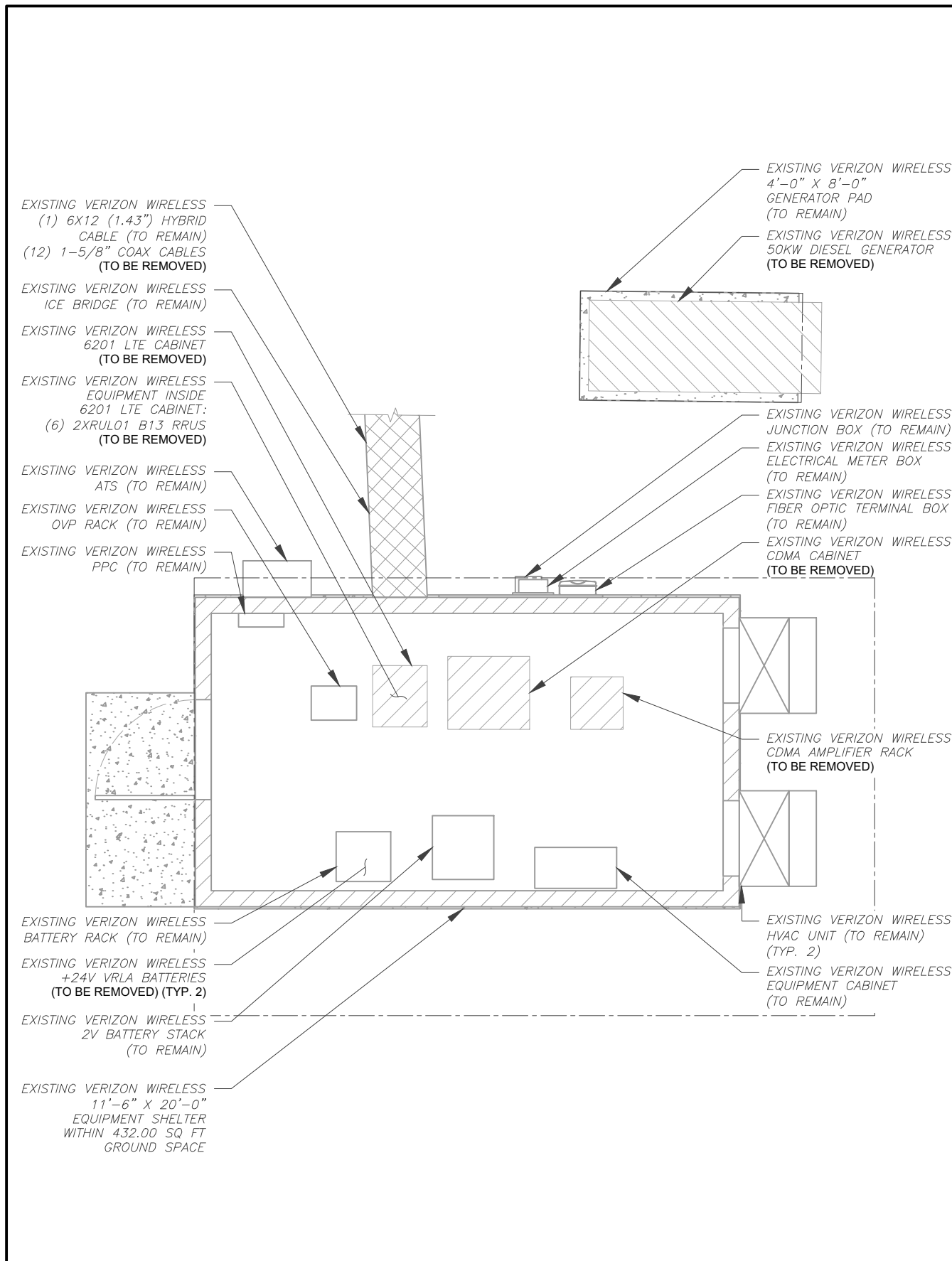
SEAL: 09/23/25



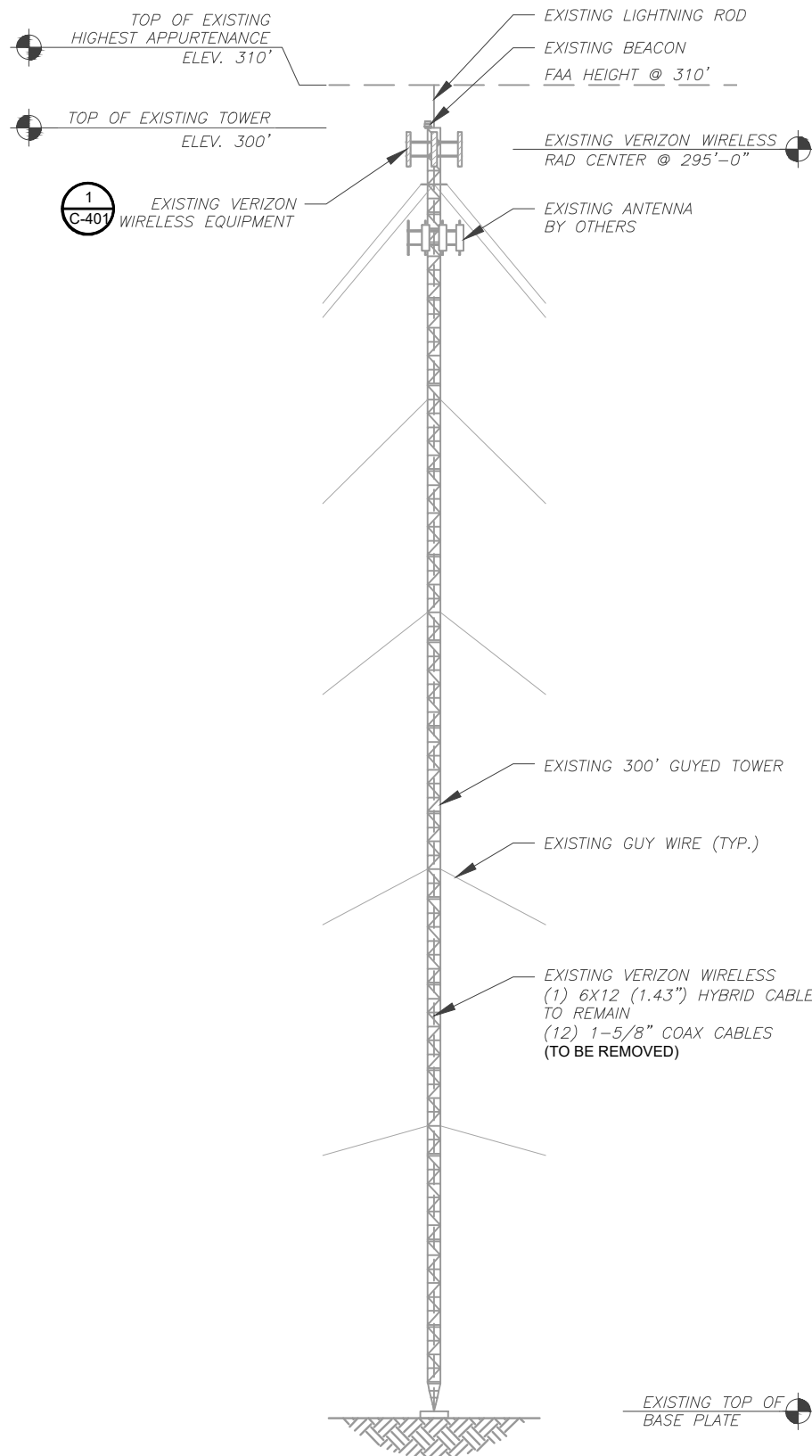
DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

**DETAILED EQUIPMENT LAYOUT**

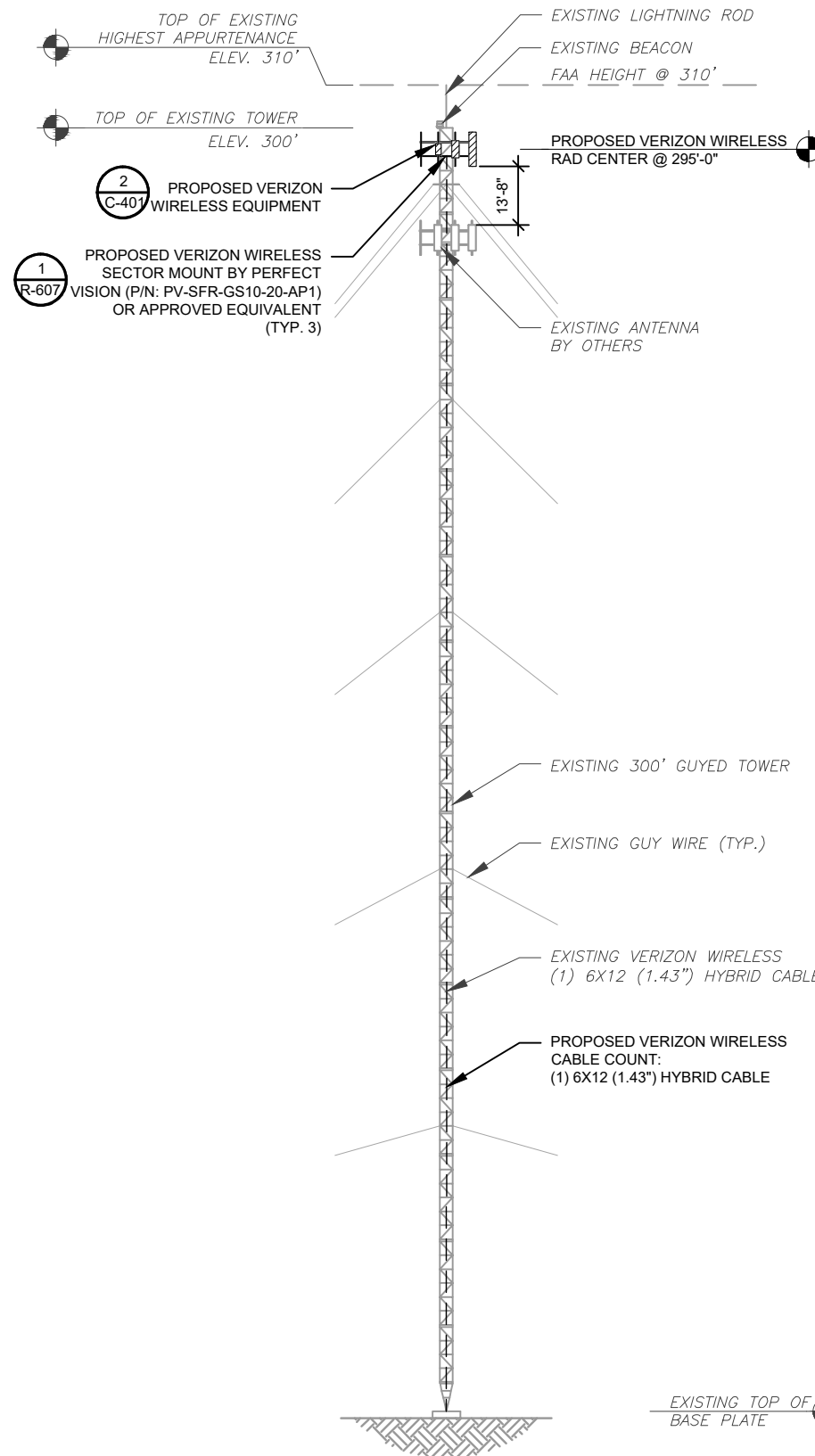
SHEET NUMBER: <b>C-102</b>	REVISION: <b>0</b>
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1 EXISTING TOWER ELEVATION  
SCALE: N.T.S.



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

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED AUGUST 7, 2025. THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

ATC IS CURRENTLY FILED FOR FAA HEIGHT ABOVE THE TOP OF TOWER AND EQUAL TO THE HIGHEST APPURTENANCE

**TOWER NOTES:**

- 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 ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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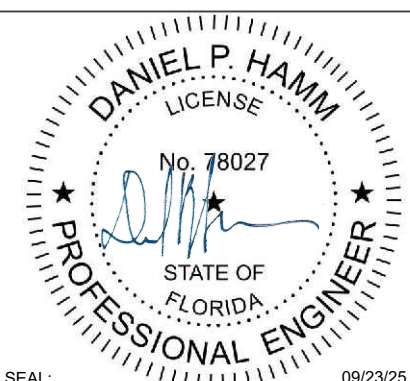
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ATC SITE NUMBER:  
417361  
ATC SITE NAME:  
THOMAS ARP3 RAW LAND FL  
VERIZON WIRELESS SITE NAME:  
THOMAS  
SITE ADDRESS:  
744 NW SPRADLEY RD  
LAKE CITY, FL 32055

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	SSG	08/21/25
0	100% CONSTRUCTION	VDS	09/23/25

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SEAL: 09/23/25

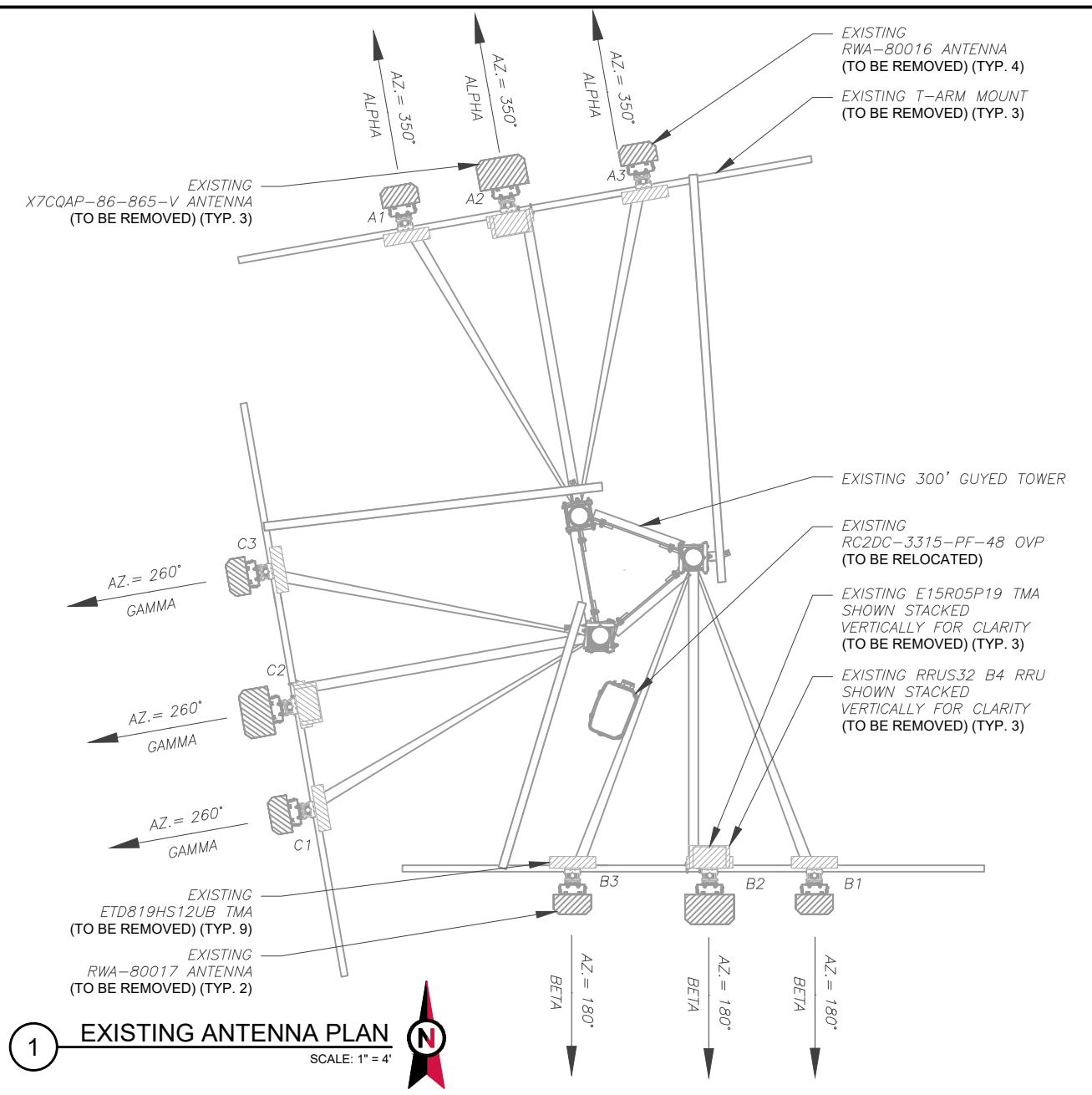


DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

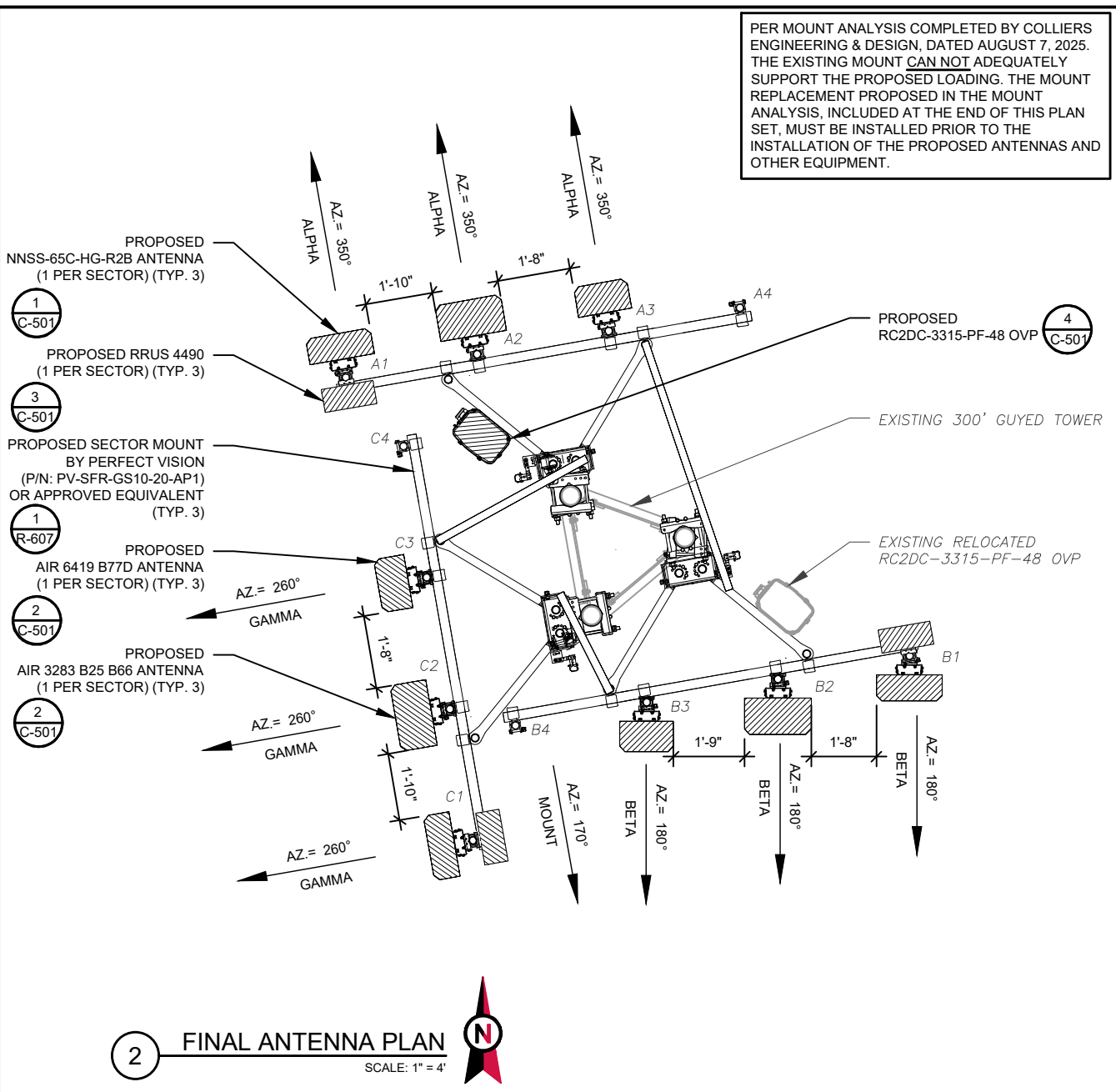
**TOWER ELEVATION**

SHEET NUMBER: <b>C-201</b>	REVISION: <b>0</b>
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**1 EXISTING ANTENNA PLAN**  
SCALE: 1" = 4'



**2 FINAL ANTENNA PLAN**  
SCALE: 1" = 4'

PER MOUNT ANALYSIS COMPLETED BY COLLIER'S ENGINEERING & DESIGN, DATED AUGUST 7, 2025. THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

**TEP**  
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OFFICE: (919) 661-6351  
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ATC SITE NAME:  
**THOMAS ARP3 RAW LAND FL**  
VERIZON WIRELESS SITE NAME:  
**THOMAS**  
SITE ADDRESS:  
744 NW SPRADLEY RD  
LAKE CITY, FL 32055

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	SSG	08/21/25
O	100% CONSTRUCTION	VDS	09/23/25

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**DANIEL P. HAMM**  
LICENSE  
No. 78027  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

SEAL: 09/23/25

**verizon**

DATE DRAWN: 09/23/25  
ATC JOB NO: 15248584  
CUSTOMER NAME: THOMAS  
CUSTOMER ID: 228810

**ANTENNA INFORMATION & SCHEDULE**

SHEET NUMBER: **C-401**  
REVISION: **0**

EXISTING ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	295'	350°	A1	RWA-80016	-	*	RMV	(1) ETD819HS12UB	RMV
			A2	X7CQAP-86-865-V	LTE 700/LTE 1900/LTE AWS	*	RMV	(1) E15R05P19 (1) RRUS32 B4 (1) ETD819HS12UB	RMV RMV RMV
			A3	RWA-80016	-	*	RMV	(1) ETD819HS12UB	RMV
BETA	295'	180°	B1	RWA-80017	-	*	RMV	(1) ETD819HS12UB	RMV
			B2	X7CQAP-86-865-V	LTE 700/LTE 1900/LTE AWS	*	RMV	(1) E15R05P19 (1) RRUS32 B4 (1) ETD819HS12UB	RMV RMV RMV
			B3	RWA-80017	-	*	RMV	(1) ETD819HS12UB	RMV
GAMMA	295'	260°	C1	RWA-80016	-	*	RMV	(1) ETD819HS12UB	RMV
			C2	X7CQAP-86-865-V	LTE 700/LTE 1900/LTE AWS	*	RMV	(1) E15R05P19 (1) RRUS32 B4 (1) ETD819HS12UB	RMV RMV RMV
			C3	RWA-80016	-	*	RMV	(1) ETD819HS12UB	RMV

\* - SEE RFDS FOR VALUES

**NOTES**

- CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- TEP DID NOT VERIFY THE EXISTING LOADING. LOADING DATA PROVIDED BY ATC AND VERIZON WIRELESS.

**STATUS ABBREVIATIONS**

RMV: TO BE REMOVED  
RMN: TO REMAIN  
REL: TO BE RELOCATED  
ADD: TO BE ADDED

**CABLE LENGTHS FOR JUMPERS**

JUNCTION BOX TO RRU: 15'  
RRU TO ANTENNA: 10'

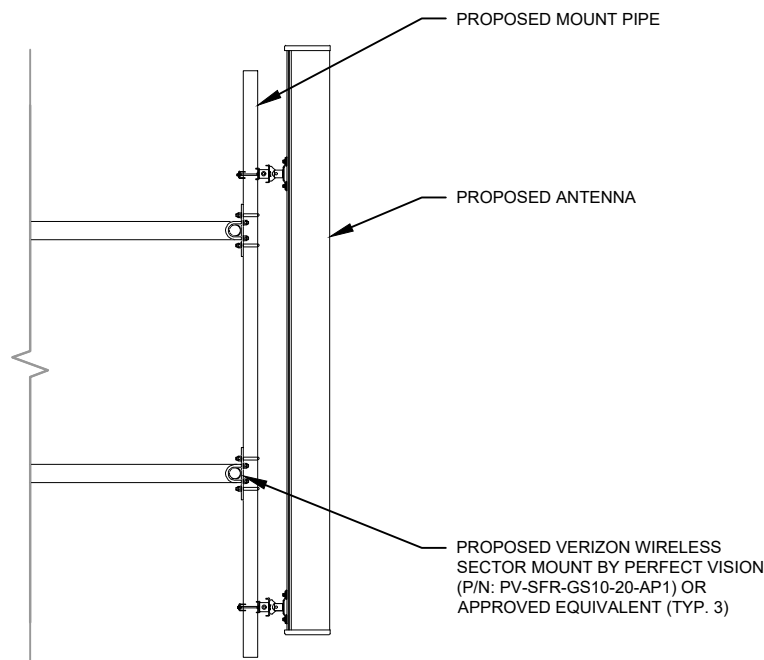
FINAL ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	295'	350°	A1	NNSS-65C-HG-R2B	LTE 700/LTE 850/5G 850	*	ADD	(1) RRUS 4490	ADD
			A2	AIR 3283 B25 B66	LTE 1900/LTE AWS/ LTE AWS3	*	ADD	-	-
			A3	AIR 6419 B77D	5G L-SUB6	*	ADD	-	-
			A4	-	-	*	-	-	-
BETA	295'	180°	B1	NNSS-65C-HG-R2B	LTE 700/LTE 850/5G 850	*	ADD	(1) RRUS 4490	ADD
			B2	AIR 3283 B25 B66	LTE 1900/LTE AWS/ LTE AWS3	*	ADD	-	-
			B3	AIR 6419 B77D	5G L-SUB6	*	ADD	-	-
			B4	-	-	*	-	-	-
GAMMA	295'	260°	C1	NNSS-65C-HG-R2B	LTE 700/LTE 850/5G 850	*	ADD	(1) RRUS 4490	ADD
			C2	AIR 3283 B25 B66	LTE 1900/LTE AWS/ LTE AWS3	*	ADD	-	-
			C3	AIR 6419 B77D	5G L-SUB6	*	ADD	-	-
			C4	-	-	*	-	-	-

\* - SEE RFDS FOR VALUES

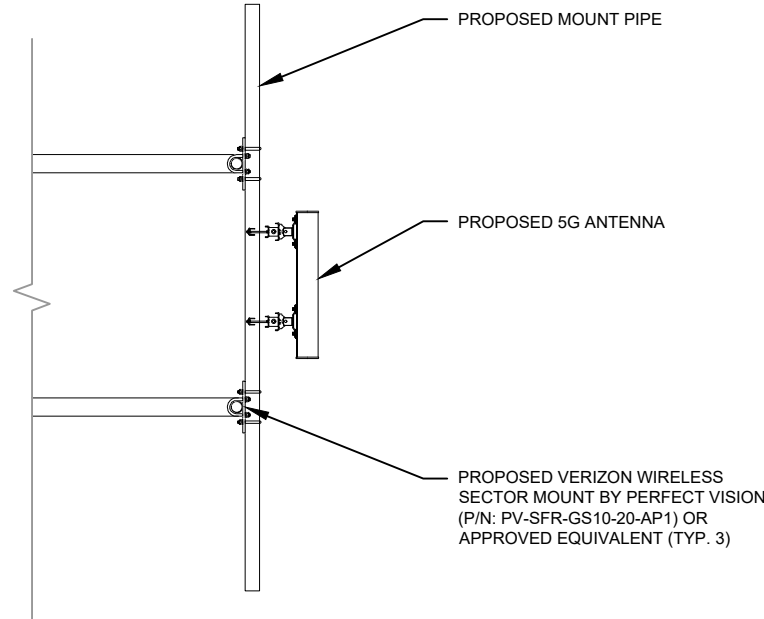
EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	FIBER/HYBRID	STATUS
(1) RC2DC-3315-PF-48	REL	-	(1) 6X12 (1.43")	RMN
-	-	(12) 1-5/8"	-	RMV

**3 EQUIPMENT SCHEDULES**

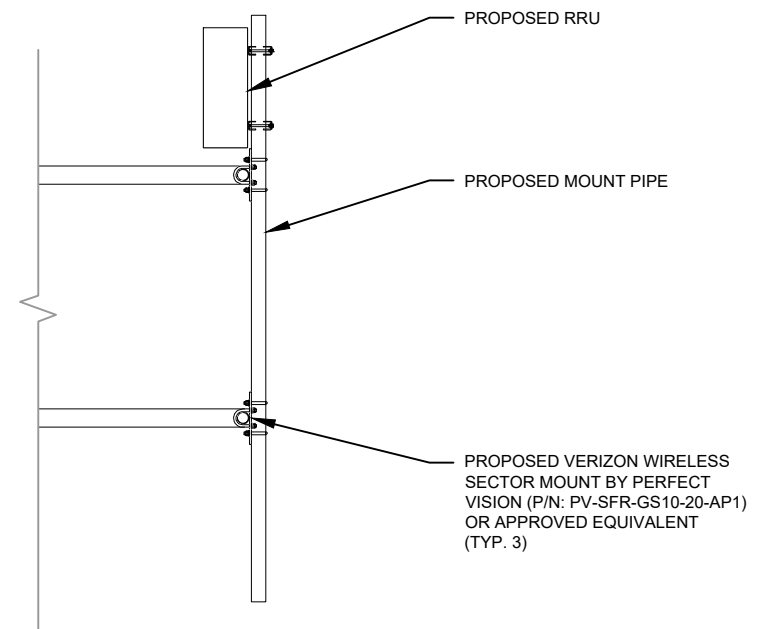
FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	FIBER/HYBRID	STATUS
(1) RC2DC-3315-PF-48	RMN	-	(1) 6X12 (1.43")	RMN
(1) RC2DC-3315-PF-48	ADD	-	(1) 6X12 (1.43")	ADD



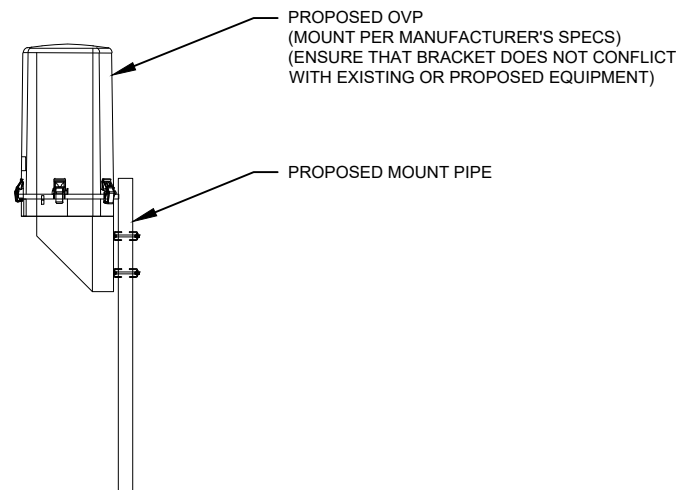
1 PROPOSED ANTENNA MOUNTING DETAIL  
SCALE: N.T.S.



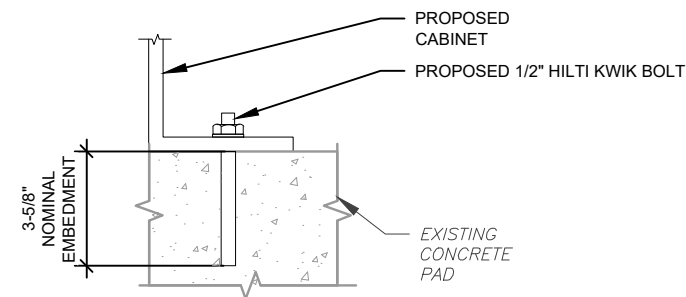
2 PROPOSED 5G ANTENNA MOUNTING DETAIL  
SCALE: N.T.S.



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

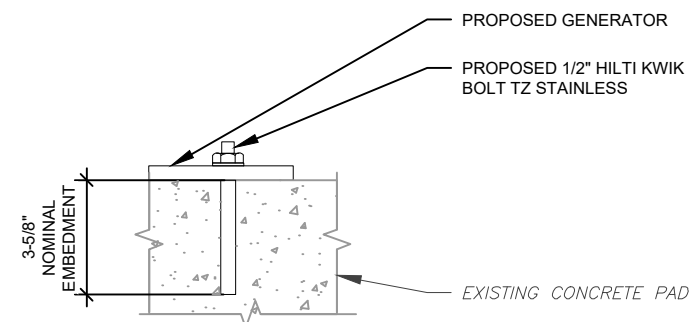


4 PROPOSED OVP MOUNTING DETAIL  
SCALE: N.T.S.



NOTE:  
INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

5 CABINET ATTACHMENT DETAIL  
SCALE: NOT TO SCALE



NOTE:  
INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

6 GENERATOR ATTACHMENT DETAIL  
SCALE: NOT TO SCALE

**TEP**  
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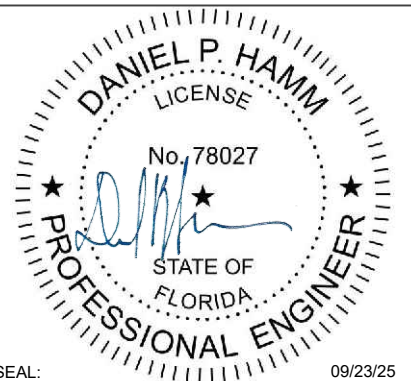
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SEAL: 09/23/25



DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

CONSTRUCTION  
DETAILS

SHEET NUMBER: <b>C-501</b>	REVISION: <b>0</b>
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**NOTES:**

1. ALL CONDUCTORS ARE TYPE THWN (75%) COPPER.
2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50-FT.
3. INTERSECT/GENERAC INTEGRATED LOAD CENTER INCLUDES 200A MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.
4. RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS.
5. IF ADDITIONAL FUTURE LOADS ARE ADDED WHICH CAUSE TOTAL DEMAND TO EXCEED GENERATOR BREAKER SIZE, BACKUP POWER SYSTEM SHALL BE EVALUATED AND UPGRADED AS NECESSARY.

200A 120/240V 1Ø 3W VERIZON POWER PANEL SCHEDULE											
LOAD SERVED	UNCOMPENSATED VOLT AMPERES		TRIP	CKT #	PHASE	CKT #	TRIP	UNCOMPENSATED VOLT AMPERES		LOAD SERVED	
	L1	L2						L1	L2		
HVAC #1	1308		35A	1	A	2	40A	1308		HVAC #2	
		1308		3	B	4			1308		
INTERIOR / EXT LIGHTS	500		20A	5	A	6	-	-		SPACE	
DUPLEX RECEPTACLE		180	20A	7	B	8	20A		180	DUPLEX RECEPTACLE	
GFCI RECEPTACLE	180		20A	9	A	10	40A	1920		RECTIFIER #2 SLOT #2, 5	
EXTERIOR LIGHT		500	20A	11	B	12			1920		
*LTE	960		20A	13	A	14	40A	1920		RECTIFIER #4 SLOT #7, 10	
*LTE		960	20A	15	B	16			1920		
*LTE	960		20A	17	A	18	70A	1920		RECTIFIER #6 SLOT #9, 12	
*LTE		960	30A	19	B	20			1920		
RECTIFIER #5 SLOT #8, 11	1920		40A	21	A	22	40A	0		*UNLABELED / OFF	
		1920		23	B	24	20A		500	TOWER LIGHTS	
*LUCENT	4800		100A	25	A	26	80A	0		*UNLABELED / OFF	
		4800		27	B	28			0		
SPACE	-		-	29	A	30	-	-		SPARE	
VOLT AMPS	10628	10628						7068	7748	VOLT AMPS	
	L1 VOLT AMPERES			17696		18376	L2 VOLT AMPERES				
	L1 AMPS			147.5		153.1	L2 AMPS				
	L1 DEMAND AMPS			184.3		191.4	L2 DEMAND AMPS				
				191.4		MAX DEMAND AMPS					

\*BREAKER TO BE REMOVED.  
 \*\*GEN. BATTERY CHARGED LOAD IS 0 VA DURING GENERATOR OPERATION.  
 \*\*\*LOADING VALUES BASED ON INFORMATION PROVIDED BY LOCAL UTILITY COMPANY.  
 \*\*\*\*LOADING VALUES BASED ON INFORMATION PROVIDED BY VERIZON WIRELESS.

1 EXISTING AC PANEL SCHEDULE



TEP OPCO LLC  
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 www.tepgroup.net  
 FL COA#: 31011

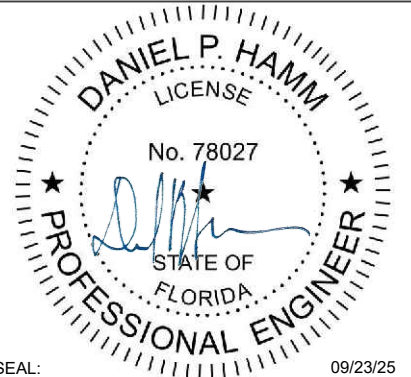
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ATC SITE NUMBER:  
**417361**  
 ATC SITE NAME:  
**THOMAS ARP3 RAW LAND FL**  
 VERIZON WIRELESS SITE NAME:  
**THOMAS**  
 SITE ADDRESS:  
 744 NW SPRADLEY RD  
 LAKE CITY, FL 32055

REV.	DESCRIPTION	BY	DATE
0	PRELIMINARY	SSG	08/21/25
0	100% CONSTRUCTION	VDS	09/23/25

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SEAL: 09/23/25



DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

EXISTING PANEL SCHEDULE

SHEET NUMBER:  
**E-101**  
 REVISION:  
**0**

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**NOTES:**

1. ALL CONDUCTORS ARE TYPE THWN (75%) COPPER.
2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50-FT.
3. INTERSECT/GENERAC INTEGRATED LOAD CENTER INCLUDES 200A MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.
4. RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS.
5. IF ADDITIONAL FUTURE LOADS ARE ADDED WHICH CAUSE TOTAL DEMAND TO EXCEED GENERATOR BREAKER SIZE, BACKUP POWER SYSTEM SHALL BE EVALUATED AND UPGRADED AS NECESSARY.

200A 120/240V 1Ø 3W VERIZON POWER PANEL SCHEDULE											
LOAD SERVED	UNCOMPENSATED VOLT AMPERES		TRIP	CKT #	PHASE	CKT #	TRIP	UNCOMPENSATED VOLT AMPERES		LOAD SERVED	
	L1	L2						L1	L2		
HVAC #1	1308		35A	1	A	2	40A	1308		HVAC #2	
		1308		3	B	4			1308		
INTERIOR / EXT LIGHTS	500		20A	5	A	6	-	-		SPACE	
DUPLEX RECEPTACLE		180	20A	7	B	8	20A		180	DUPLEX RECEPTACLE	
GFCI RECEPTACLE	180		20A	9	A	10	40A	1920		RECTIFIER #2 SLOT #2, 5	
EXTERIOR LIGHT		500	20A	11	B	12			1920		
SPACE	-		-	13	A	14	40A	1920		RECTIFIER #4 SLOT #7, 10	
SPACE		-	-	15	B	16			1920		
SPACE	-		-	17	A	18	70A	1920		RECTIFIER #6 SLOT #9, 12	
SPACE		-	-	19	B	20			1920		
RECTIFIER #5 SLOT #8, 11	1920		40A	21	A	22	-	-		SPACE	
		1920		23	B	24	20A		500	TOWER LIGHTS	
SPACE	-		-	25	A	26	-	-		SPACE	
SPACE		-	-	27	B	28	-	-		SPACE	
SPACE	-		-	29	A	30	-	-		SPARE	
VOLT AMPS	3908	3908						7068	7748	VOLT AMPS	
	L1 VOLT AMPERES			10976		11656	L2 VOLT AMPERES				
	L1 AMPS			91.5		97.1	L2 AMPS				
	L1 DEMAND AMPS			114.3		121.4	L2 DEMAND AMPS				
				121.4		MAX DEMAND AMPS					

\*GEN. BATTERY CHARGED LOAD IS 0 VA DURING GENERATOR OPERATION.  
 \*\*LOADING VALUES BASED ON INFORMATION PROVIDED BY LOCAL UTILITY COMPANY.  
 \*\*\*LOADING VALUES BASED ON INFORMATION PROVIDED BY VERIZON WIRELESS.



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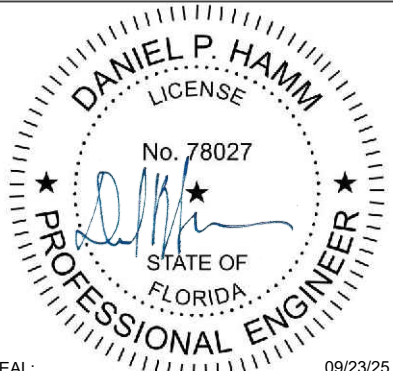
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**THOMAS**  
 SITE ADDRESS:  
 744 NW SPRADLEY RD  
 LAKE CITY, FL 32055

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0	PRELIMINARY	SSG	08/21/25
0	100% CONSTRUCTION	VDS	09/23/25

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SEAL: 09/23/25



DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

**PROPOSED PANEL SCHEDULE**

SHEET NUMBER:  
**E-102**  
 REVISION:  
**0**

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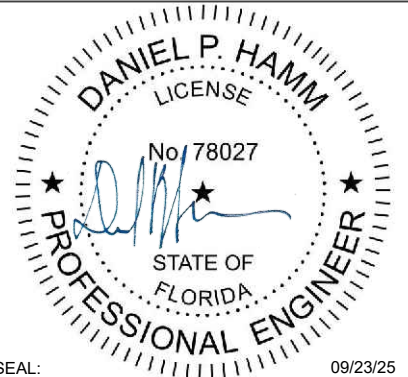
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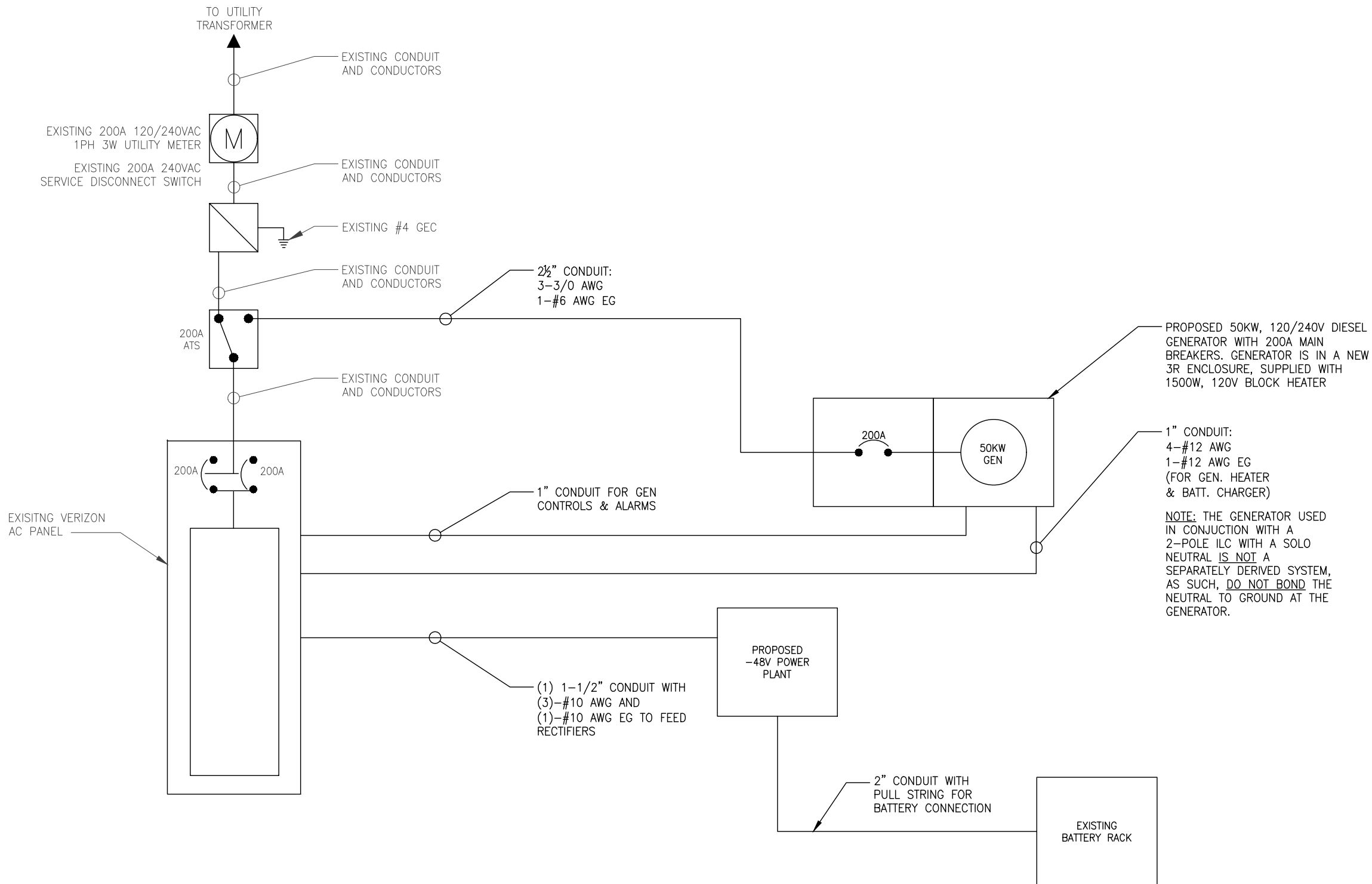
SEAL: 09/23/25



DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

**ONE-LINE DIAGRAM**

SHEET NUMBER:  
**E-103**  
 REVISION:  
**0**



1 ONE-LINE DIAGRAM

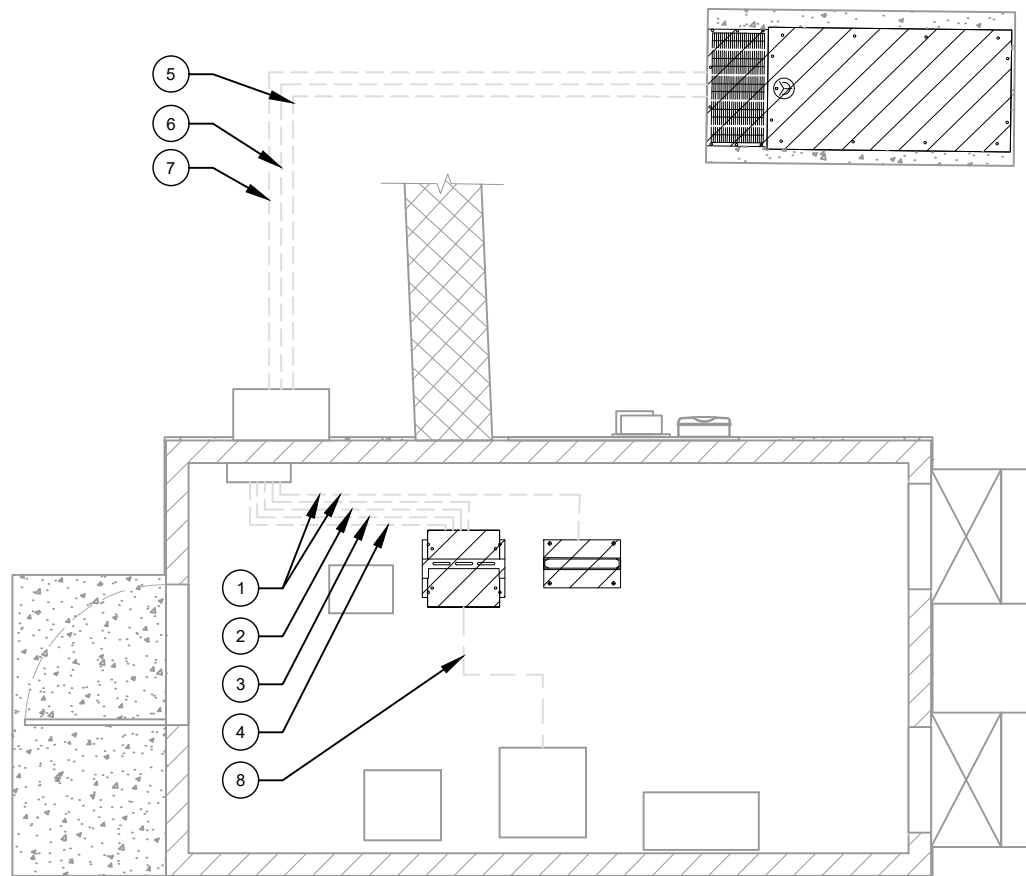
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**LABEL LIST:**

1. (1)-1½" CONDUIT FOR THE RECTIFIERS IN THE NEW 19" RACK AND POWER CABINET
2. (1)-3/4" CONDUIT FOR GFI IN THE NEW POWER PLANT AND POWER CABINET
3. (1)-1" CONDUIT FOR GENERATOR AND ATS ALARM FROM PPC TO POWER PLANT
4. (1)-1½" CONDUIT FOR PROPOSED EQUIPMENT RACK FROM PPC TO NEW POWER RACK.
5. (1)-1" CONDUIT FOR GENERATOR HEATER & BATTERY CHARGER FROM ATS TO GENERATOR
6. (1)-1" CONDUIT FOR ALARM AND CONTROL WIRING FROM ATS TO GENERATOR
7. (1)-2½" CONDUIT FOR POWER FROM ATS TO GENERATOR
8. (1)-2" CONDUIT WITH PULL STRING FOR BATTERY CONNECTION

**NOTES:**

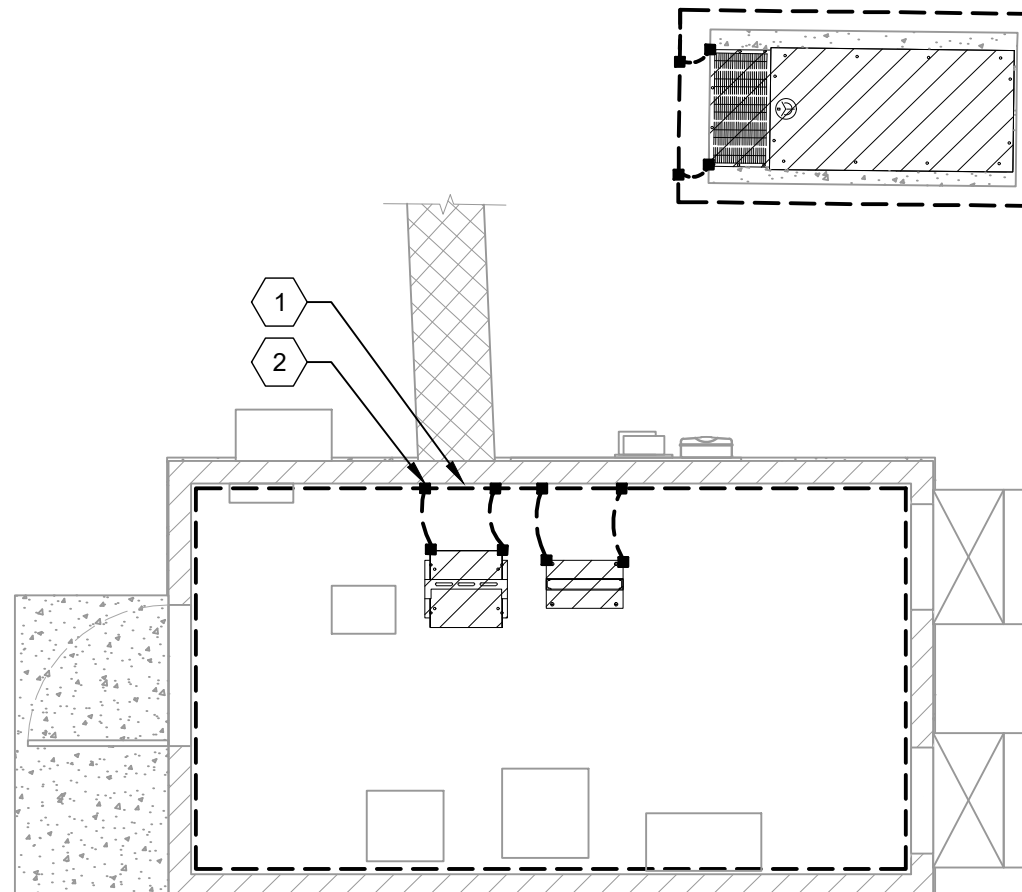
1. POWER AND TELCO CONDUITS RECEIVING CONDUCTORS BY OTHERS TO HAVE PULL ROPES.
2. ALL TELCO CONDUITS ARE TO BE STUBBED IN D-MARC LOCATION.
3. ALL POWER CONDUITS ARE TO BE TERMINATED AT THE METER CENTER.
4. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO TRENCHING. ANY DAMAGE CAUSED TO THE EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
5. ALL CONDUITS SHALL BE INSTALLED PRIOR TO FINISH GRADING, GEOFABRIC, AND STONE INSTALLATION.
6. CONTRACTOR SHALL INSTALL SWEEPS AT ALL CONDUIT DIRECTION CHANGES UNLESS NOTED OTHERWISE.
7. RUN CONDUITS FROM ILC TO GENERATOR UNDERGROUND AND STUB UP CONDUITS MINIMUM 6" HIGH INSIDE GENERATOR BASE AND TERMINATE WITH MALE ADAPTER AND THREADED BUSHING.
8. WHEN ALL RRU's ARE GROUND MOUNTED, OMIT OVPs AND RUN FIBER/POWER FROM CONSOLIDATED EQUIPMENT AND POWER CABINET DIRECTLY TO RRU's.



1 POWER ROUTING PLAN

**GROUNDING KEYED NOTES:**

- 1 SHELTER GROUNDING SYSTEM
- 2 GROUNDING ELECTRODE (TYP.)



2 GROUNDING PLAN



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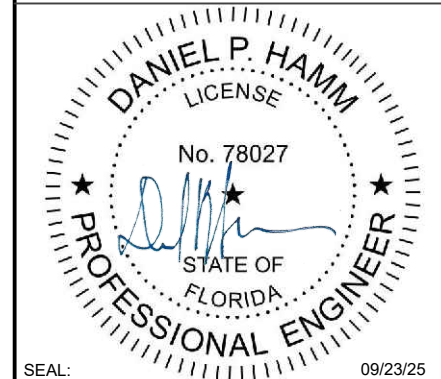
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LAKE CITY, FL 32055

REV.	DESCRIPTION	BY	DATE
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DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

**GROUNDING PLAN & SCHEMATIC**

SHEET NUMBER:	REVISION:
<b>E-104</b>	<b>0</b>



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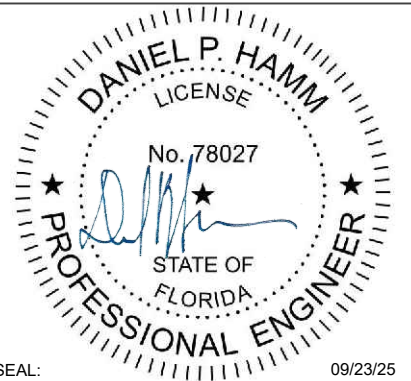
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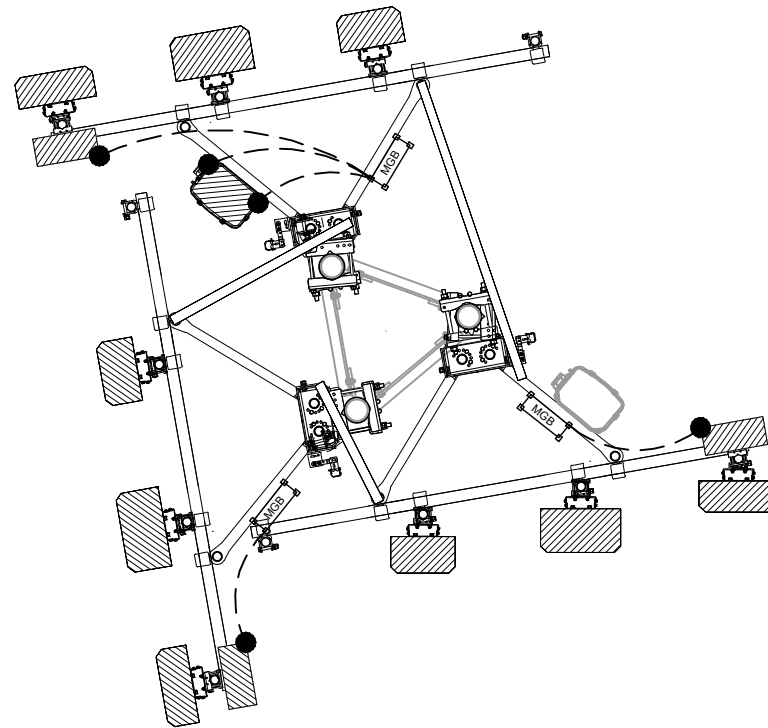
SEAL: 09/23/25



DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

**ANTENNA GROUNDING PLAN**

SHEET NUMBER:	REVISION:
<b>E-105</b>	<b>0</b>

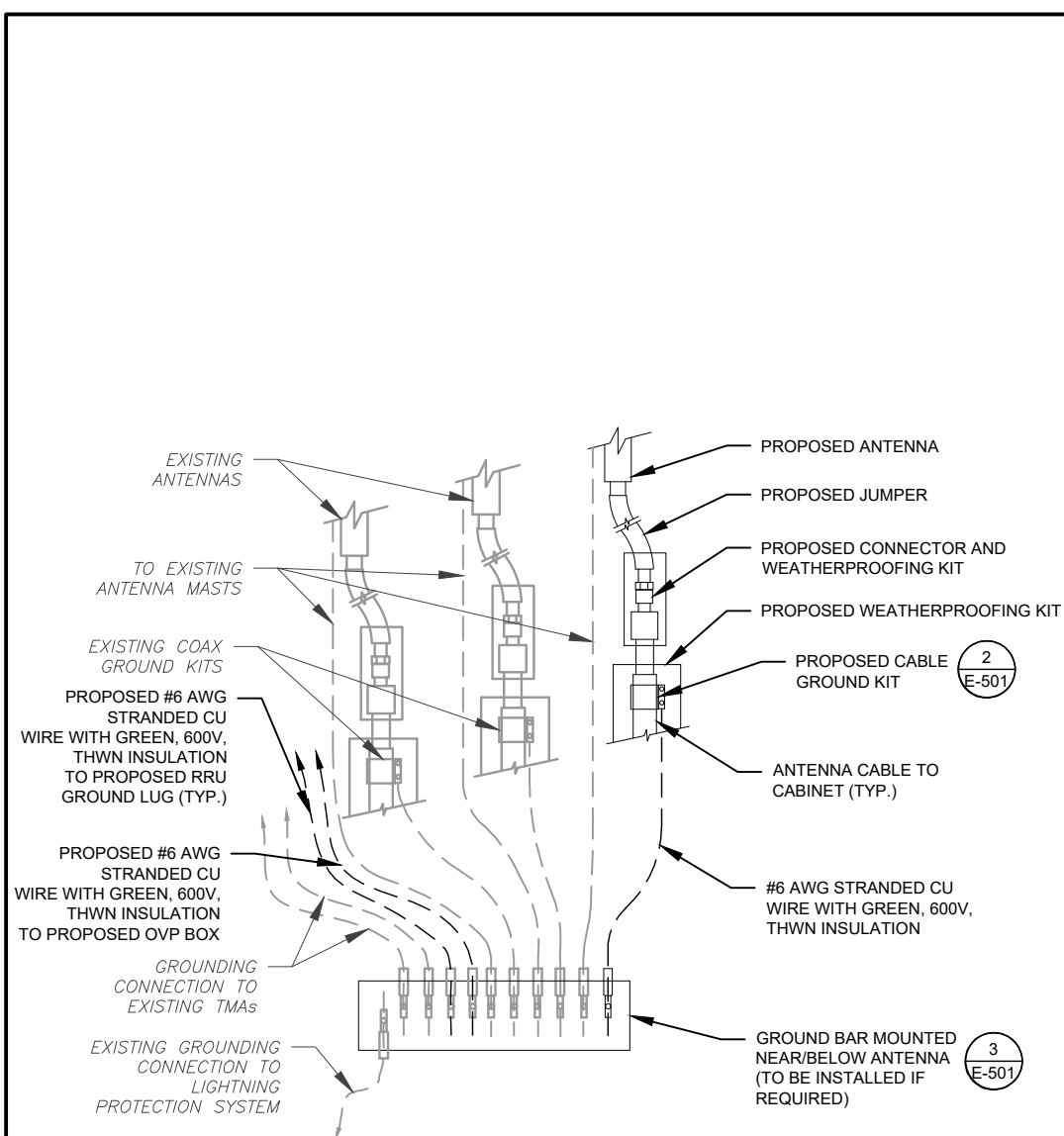


LEGEND

- MECHANICAL CONNECTION
- MASTER GROUND BAR

**1 FINAL ANTENNA GROUNDING PLAN**  
 SCALE: 1" = 4'

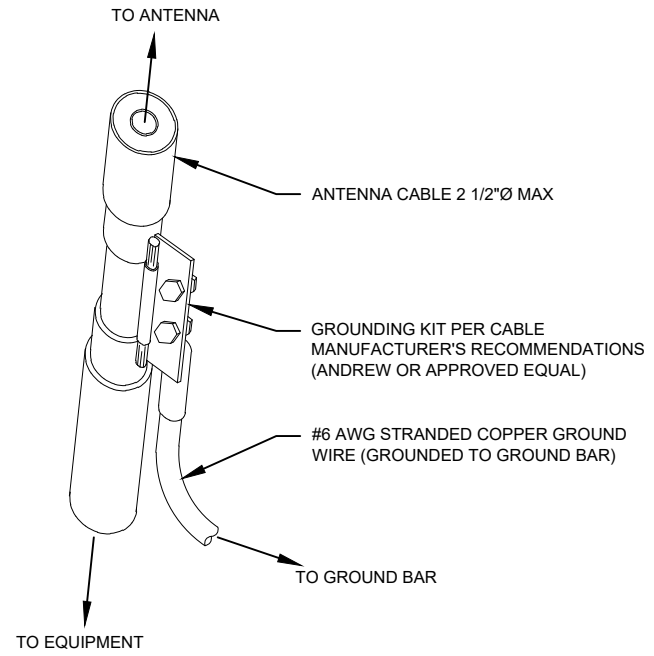




**NOTES:**

1. 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.
2. 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.

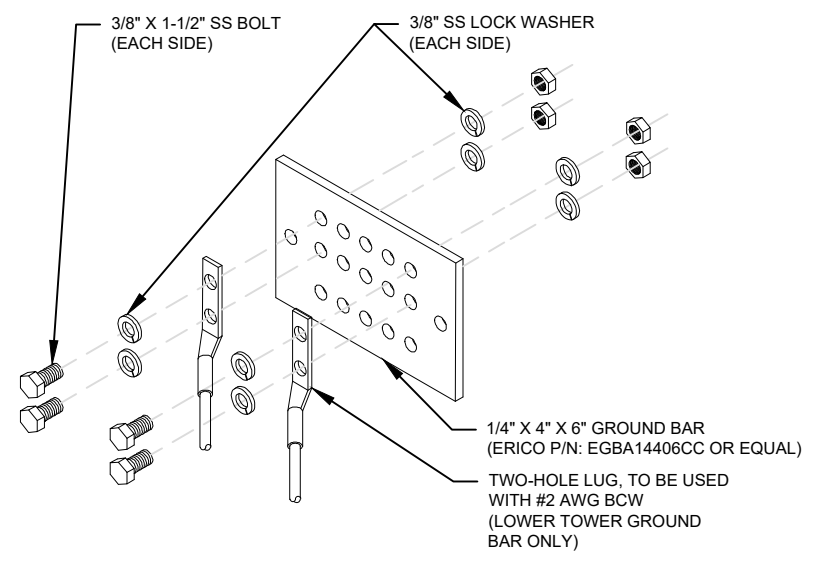
**1 TYPICAL ANTENNA GROUNDING DIAGRAM**  
SCALE: N.T.S.



**GROUND KIT NOTES:**

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

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



**GROUND BAR NOTES:**

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

**3 TOWER GROUND BAR DETAIL**  
SCALE: N.T.S.

**TEP**  
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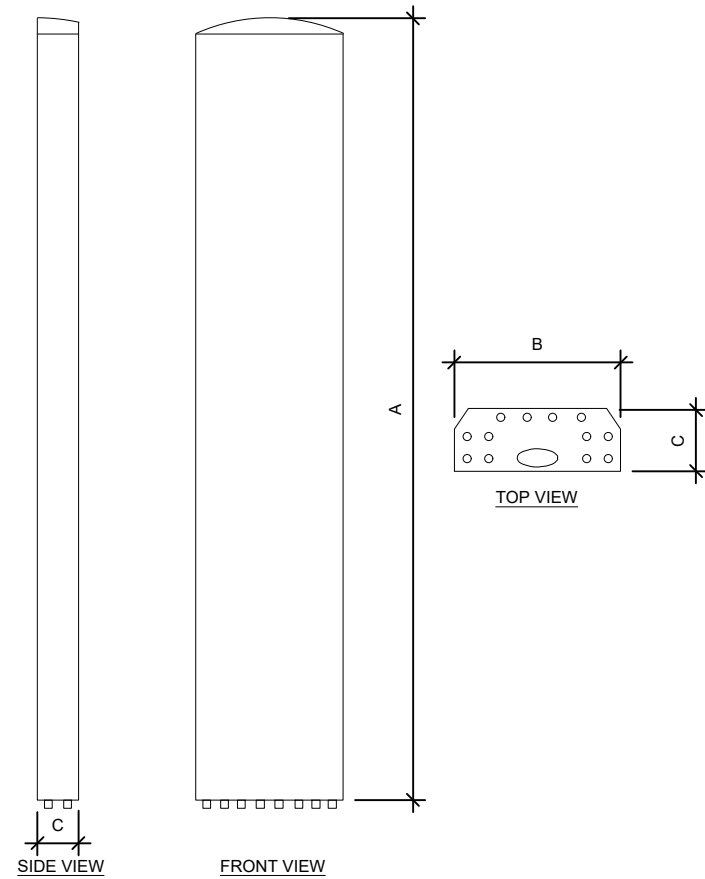


DATE DRAWN:	09/23/25
ATC JOB NO:	15248584
CUSTOMER NAME:	THOMAS
CUSTOMER ID:	228810

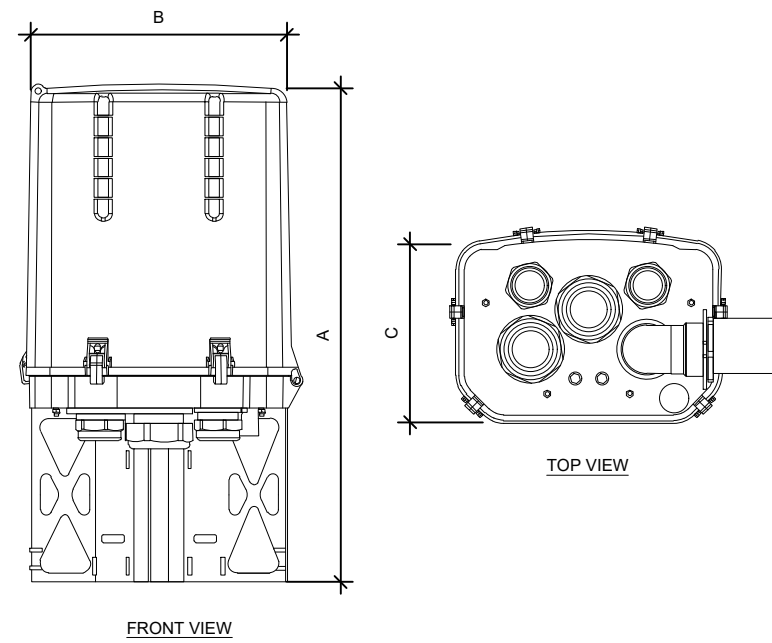
**GROUNDING DETAILS**

SHEET NUMBER:	REVISION:
<b>E-501</b>	<b>0</b>

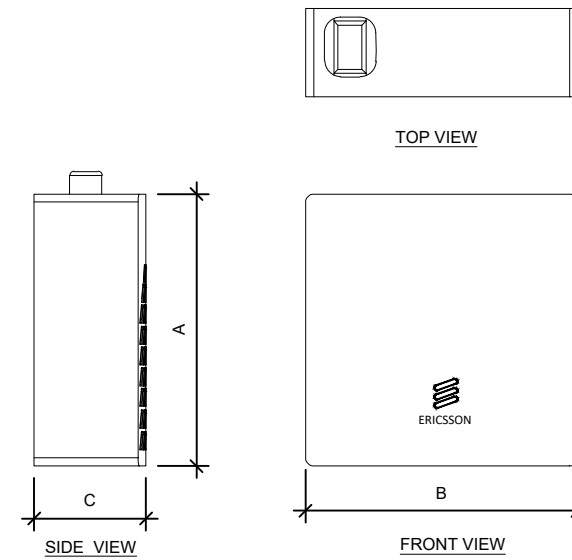
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR 6419 B77D	31.2"	16.1"	9.1"	63.1
NNSS-65C-HG-R2B	96.0"	19.6"	7.8"	83.8
AIR 3283 B25 B66	47.2"	20.0"	10.9"	108.0



OVP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
RC2DC-3315-PF-48	28.9"	15.7"	10.3"	32.0



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RRUS 4490	20.6"	15.7"	7.0"	68.4

**EQUIPMENT SPECIFICATIONS**

SCALE: N.T.S.

**SUPPLEMENTAL**

SHEET NUMBER:

**R-601**

REVISION:

-

**SD050 | 3.4L | 50 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**  
 EPA Certified Stationary Emergency



**SD050 | 3.4L | 50 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**  
 EPA Certified Stationary Emergency



**Standby Power Rating**  
 50 kW, 63 kVA, 60 Hz

**Prime Power Rating\***  
 45 kW, 56 kVA, 60 Hz



Image used for illustration purposes only



\*EPA Certified Prime ratings are not available in the US or its Territories

**Codes and Standards**

Not all codes and standards apply to all configurations. Contact factory for details.

UL2200, UL6200, UL1236, UL142

CSA C22.2

BS5514 and DIN 6271

SAE J1349

NFPA 37, 70, 99, 110

NEC700, 701, 702, 708

ISO 3046, 7637, 8528, 9001

NEMA ICS10, MG1, 250, ICS6, AB1

ANSI C62.41

IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

**Powering Ahead**

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

**STANDARD FEATURES**

**ENGINE SYSTEM**

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Units Only)

**Fuel System**

- Fuel Lockoff Solenoid
- Primary Fuel Filter

**Cooling System**

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze
- 120 VAC Coolant Heater

**Electrical System**

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

**ALTERNATOR SYSTEM**

- UL2200 GENprotect™
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Brushless Excitation
- Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- Rotor Dynamically Spin Balanced
- Full Load Capacity Alternator
- Protective Thermal Switch

**GENERATOR SET**

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Only)
- Silencer of Heat Shield

**ENCLOSURE (If Selected)**

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

**FUEL TANKS (If Selected)**

- UL 142/ULC S-601
- Double Wall Construction
- Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested - 2 psi
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

**CONTROL SYSTEM**



Digital H Control Panel- Dual 4x20 Display

**Program Functions**

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors

- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

**Full System Status Display**

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

**Alarms and Warnings**

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

SPEC SHEET

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SPEC SHEET

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**SD050 | 3.4L | 50 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**  
 EPA Certified Stationary Emergency



**CONFIGURABLE OPTIONS**

**ENGINE SYSTEM**

- Engine Coolant Heater
- Oil Heater
- Industrial Silencer (Open Set)
- Air Filter Restriction Indicator
- Fan and Belt Guards (Enclosed Units Only)

**FUEL SYSTEM**

- Flexible Fuel Lines
- Primary Fuel Filter

**ELECTRICAL SYSTEM**

- 10A UL Listed Battery Charger
- Battery Warmer

**ALTERNATOR SYSTEM**

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

**GENERATOR SET**

- 8 Position Load Center

**ENGINEERED OPTIONS**

**ENGINE SYSTEM**

- Coolant Heater Ball Valves
- Fluid Containment Pan

**CONTROL SYSTEM**

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

**CIRCUIT BREAKER OPTIONS**

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

**ENCLOSURE**

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Open Alarm Switch
- Pad Vibration Isolator
- Enclosure Heater

**WARRANTY (Standby Gensets Only)**

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

**CONTROL SYSTEM**

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Sender with Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- 10A Engine Run Relay
- Ground Fault Indication and Protection Functions
- 100 dB Alarm Horn
- 120V GFCI and 240V Outlets

**FUEL TANKS (Size On Last Page)**

- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension
- Overfill Protection Valve
- Vent Extensions
- Tank Risers
- Fuel Drop Tube
- Return Hose
- 90% Fuel Level Alarm

**ALTERNATOR SYSTEM**

- 3rd Breaker System

**GENERATOR SET**

- Special Testing
- IBC Seismic Certification

**TANKS**

- UL2085 Tank
- Stainless Steel Tanks

**SD050 | 3.4L | 50 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**  
 EPA Certified Stationary Emergency



**APPLICATION AND ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

**General**

Make	Generac
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in <sup>3</sup> (L)	207.48 (3.4)
Bore - in (mm)	3.86 (98)
Stroke - in (mm)	4.45 (113)
Compression Ratio	18.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head	Cast Iron OHV
Piston Type	Aluminum
Crankshaft Type	Forged Steel

**Engine Governing**

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.25%

**Lubrication System**

Oil Pump Type	Gear
Oil Filter Type	Full Flow Cartridge
Crankcase Capacity - qt (L)	7.4 (7)

**Cooling System**

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed - rpm	2,250
Fan Diameter - in (mm)	560 (22)

**Fuel System**

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (microns)	10
Fuel Inject Pump	Bosch (VE)
Fuel Pump Type	Engine Driven Gear
Injector Type	Pintel - 2,100 psi (14,479 kPa)
Fuel Supply Line - in (mm)	0.312 (7.92) NPT
Fuel Return Line - in (mm)	0.312 (7.92) NPT

**Engine Electrical System**

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

**ALTERNATOR SPECIFICATIONS**

Standard Model	K0050124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Synchronous Brushless
Bearings	Single Sealed Cartridge
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SPEC SHEET

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SPEC SHEET

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**1 PROPOSED 50KW GENERATOR DETAIL**  
 SCALE: NOT TO SCALE

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

**SUPPLEMENTAL**

SHEET NUMBER: <b>R-603</b>	REVISION: -
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**SD050 | 3.4L | 50 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**  
 EPA Certified Stationary Emergency



**OPERATING DATA**

**POWER RATINGS**

		Standby
Single-Phase 120/240 VAC @1.0pf	50 kW	Amps: 208
Three-Phase 120/208 VAC @0.8pf	50 kW	Amps: 173
Three-Phase 120/240 VAC @0.8pf	50 kW	Amps: 150
Three-Phase 277/480 VAC @0.8pf	50 kW	Amps: 75
Three-Phase 346/600 VAC @0.8pf	50 kW	Amps: 60

**MOTOR STARTING CAPABILITIES (skVA)**

skVA vs. Voltage Dip			
277/480 VAC	30%	208/240 VAC	30%
K0050124Y21	98	K0050124Y21	75
K0060124Y21	124	K0060124Y21	95

**FUEL CONSUMPTION RATES\***

Fuel Pump Lift - ft (m)	Diesel - gph (Lph)	
	Percent Load	Standby
3 (1)	25%	1.3 (4.9)
	50%	2.3 (8.7)
	75%	3.3 (12.5)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	100%	4.3 (16.4)
		3.6 (13.5)

\* Fuel supply installation must accommodate fuel consumption rates at 100% load.

**COOLING**

		Standby
Coolant Flow	gpm (Lpm)	12.2 (46)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	135,900 (39.8)
Inlet Air	scfm (m³/hr)	7,500 (212)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD	
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa)	0.5 (0.12)

**COMBUSTION AIR REQUIREMENTS**

	Standby
Flow at Rated Power - scfm (m³/min)	166 (4.7)

**ENGINE**

	Standby
Rated Engine Speed	RPM 1,800
Horsepower at Rated KW**	hp 86
Piston Speed	ft/min (m/min) 1,335 (406.9)
BMEP	psi (kPa) 169 (1,165)

**EXHAUST**

		Standby
Exhaust Flow (Rated Output)	scfm (m³/min)	448 (12.7)
Max. Allowable Backpressure	inHg (kPa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	1,044 (562)

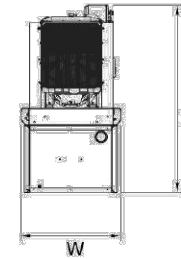
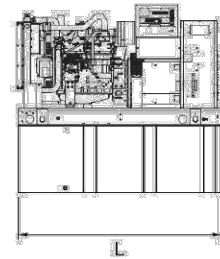
\*\* Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.  
 Standby - See Bulletin 0187500SSB  
 Prime - See Bulletin 0187510SSB

**SD050 | 3.4L | 50 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**  
 EPA Certified Stationary Emergency

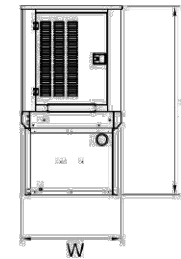
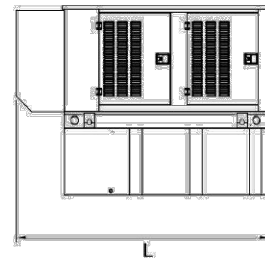


**DIMENSIONS AND WEIGHTS\***



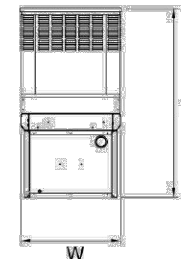
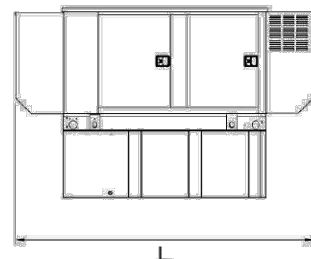
**OPEN SET (Includes Exhaust Flex)**

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Minimum Weight - lbs (kg)	Maximum Weight - lbs (kg)
No Tank	-	76.7 (1,948) x 37.4 (950) x 45.2 (1,147)	1,710 (776)	1,836 (833)
12	54 (204)	76.7 (1,948) x 37.4 (950) x 58.2 (1,477)	2,190 (983)	2,316 (832)
30	132 (499)	76.7 (1,948) x 37.4 (950) x 70.2 (1,782)	2,420 (1,098)	2,546 (879)
44	190 (719)	76.7 (1,948) x 37.4 (950) x 82.2 (2,087)	2,629 (1,192)	2,755 (1,022)
49	211 (799)	106.0 (2,692) x 37.4 (950) x 71.2 (1,807)	2,634 (1,192)	2,760 (1,023)
69	300 (1,136)	92.9 (2,360) x 37.4 (950) x 85.7 (2,176)	2,692 (1,221)	2,818 (1,035)



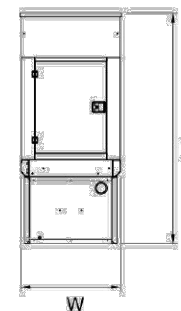
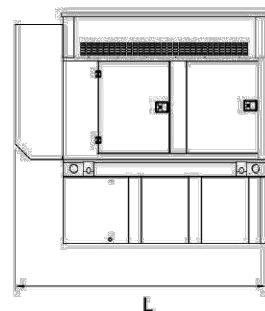
**WEATHER PROTECTED ENCLOSURE**

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Steel Weight Minimum - lbs (kg)	Steel Weight Maximum - lbs (kg)	Aluminum Weight Minimum - lbs (kg)	Aluminum Weight Maximum - lbs (kg)
No Tank	-	94.8 (2,408) x 38.0 (965) x 49.5 (1,258)	2,158 (979)	2,286 (1,037)	1,935 (878)	2,065 (1,345)
12	54 (204)	94.8 (2,408) x 38.0 (965) x 62.5 (1,588)	2,638 (1,197)	2,766 (1,256)	2,415 (1,096)	3,445 (1,563)
30	132 (499)	94.8 (2,408) x 38.0 (965) x 74.5 (1,893)	2,868 (1,301)	2,996 (1,359)	2,645 (1,200)	3,675 (1,667)
44	190 (719)	94.8 (2,408) x 38.0 (965) x 86.5 (2,198)	3,077 (1,396)	3,205 (1,454)	2,854 (1,295)	3,884 (1,762)
49	211 (799)	106.0 (2,692) x 38.0 (965) x 98.0 (2,516)	4,316 (1,958)	4,572 (2,074)	3,870 (1,755)	5,930 (2,690)
69	300 (1,136)	94.8 (2,408) x 38.0 (965) x 90.0 (2,287)	3,140 (1,424)	3,268 (1,482)	2,917 (1,323)	3,947 (1,790)



**LEVEL 1 SOUND ATTENUATED ENCLOSURE**

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Steel Weight Minimum - lbs (kg)	Steel Weight Maximum - lbs (kg)	Aluminum Weight Minimum - lbs (kg)	Aluminum Weight Maximum - lbs (kg)
No Tank	-	94.8 (2,408) x 38.0 (965) x 49.5 (1,258)	2,158 (979)	2,286 (1,037)	1,935 (878)	2,065 (1,345)
12	54 (204)	94.8 (2,408) x 38.0 (965) x 62.5 (1,588)	2,638 (1,197)	2,766 (1,256)	2,415 (1,096)	3,445 (1,563)
30	132 (499)	94.8 (2,408) x 38.0 (965) x 74.5 (1,893)	2,868 (1,301)	2,996 (1,359)	2,645 (1,200)	3,675 (1,667)
44	190 (719)	94.8 (2,408) x 38.0 (965) x 86.5 (2,198)	3,077 (1,396)	3,205 (1,454)	2,854 (1,295)	3,884 (1,762)
49	211 (799)	106.0 (2,692) x 38.0 (965) x 98.0 (2,516)	4,316 (1,958)	4,572 (2,074)	3,870 (1,755)	5,930 (2,690)
69	300 (1,136)	94.8 (2,408) x 38.0 (965) x 90.0 (2,287)	3,140 (1,424)	3,268 (1,482)	2,917 (1,323)	3,947 (1,790)



**LEVEL 2 SOUND ATTENUATED ENCLOSURE**

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Steel Weight Minimum - lbs (kg)	Steel Weight Maximum - lbs (kg)	Aluminum Weight Minimum - lbs (kg)	Aluminum Weight Maximum - lbs (kg)
No Tank	-	94.8 (2,408) x 38 (965) x 70.1 (1,780)	2,388 (1,084)	2,517 (1,142)	2,035 (823)	2,163 (981)
12	54 (204)	94.8 (2,408) x 38 (965) x 82.5 (1,588)	2,638 (1,197)	2,766 (1,256)	2,415 (1,096)	3,445 (1,563)
30	132 (499)	94.8 (2,408) x 38 (965) x 74.5 (1,893)	2,868 (1,301)	2,996 (1,359)	2,645 (1,200)	3,675 (1,667)
44	190 (719)	94.8 (2,408) x 38 (965) x 86.5 (2,198)	3,077 (1,396)	3,205 (1,454)	2,854 (1,295)	3,884 (1,762)
49	211 (799)	106.0 (2,692) x 38 (965) x 99 (2,516)	4,316 (1,958)	4,572 (2,074)	3,870 (1,755)	5,930 (2,690)
69	300 (1,136)	94.8 (2,408) x 38 (965) x 110.6 (2,800)	3,371 (1,529)	3,499 (1,587)	3,017 (1,368)	3,145 (1,427)

\* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189  
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Part No 0K5090  
 Rev. D 08/16/19

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**1 PROPOSED 50KW GENERATOR DETAIL**  
 SCALE: NOT TO SCALE

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**SUPPLEMENTAL**

SHEET NUMBER: <b>R-604</b>	REVISION: -
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# GPS 4827 Infinity Power System

## -48V DC Medium Power Plant

### Overview

The 4827 capitalizes on the product strengths found in the GPS4848 and Infinity product families by infusing the highly efficient Infinity TEZ rectifier platform and the time tested distribution found in the GPS4848 to create the GPS 4827 Infinity Power System. Utilizing the 1RU 50A or 75A 48v rectifiers; a fully equipped bay equipped with 9 rectifier shelves allows for as much as 2700A of rectifiers and 48 inches of distribution. With this increased density, a single bay GPS4827 system provides ampacity and distribution for most small and medium applications while retaining all the features found with the larger GSP4848.

### Bay Options

The 4827 system can be deployed with capacity of up to 2700 amps in a single cabinet or expanded over multiple cabinets to 5400 amps. Designed for either internal input AC breakers or terminal strip terminations, rectifier shelves can be spread across multiple bays or concentrated to a single bay. For greater flexibility and working space, the 4827 may be equipped with a larger 36 inch wide distribution bay to accommodate large cable termination and egress.

Unique to the GPS4827, rectifier AC terminations can be collected in pairs to reduce input AC circuit breakers by 50%. Additionally, the GPS4827 can accept 3ph input by supplying L-N across the rectifier shelf inputs at 277Vac.

### Infinity Rectifier

The Infinity TEZ rectifier series offers modules for use in -48V applications.

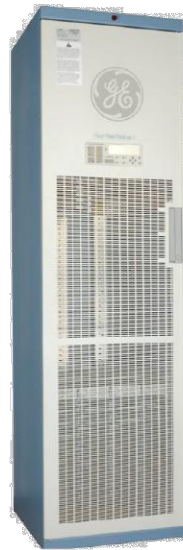
Rectifier:

- NE050AC48ATEZ Rectifier, 50A/48V Output
- NE075AC48ATEZ Rectifier, 75A/48V Output

### Galaxy Millennium II & Pulsar Plus Controllers

The Galaxy Millennium II controller combines sophisticated power monitoring and remote management. This flagship controller simplifies operations and maintenance while lowering administrative costs supporting up to 72 rectifiers. Remote peripheral modules can support over 500 monitoring points for GE Critical Power or third party devices. Ethernet, SNMP, Modbus RTU, and TL1 provide integration with power engineering and NOC workflow.

As an economical alternative with similar remote monitoring capabilities, the 4827 can be equipped with the Pulsar Controller. Designed to monitor and control system components including rectifiers, converters and distribution modules via a multi-drop RS485 digital communications bus. System status, parameters settings and alarm thresholds can be viewed and configured from the controller's front panel or local/remote PC interface.



## Infinity TEZ Rectifiers: NE050AC48ATEZ & NE075AC48ATEZ

- Compact - 1RU x 4 across form factor providing high power density
- Plug and Play with automatic ID - installation of the rectifier in a shelf connected to a compatible system controller initializes all set up parameters and IDs shelf position automatically. No adjustments are needed. Product identifications, serial numbers and software versions are provided in the embedded inventory report page.
- Extended service life - parallel operation with automatic digital load sharing ensures that parallel units are not unduly stressed even when a unit fails or is removed.
- Monitoring / control - the built in microprocessor controls and monitors all critical rectifier functions and communicates with the system controller using the built in Galaxy Protocol serial interface.
- Fail safe performance - hot insertion capabilities allow for rectifier replacement without system shutdown; soft start and inrush current protection prevent nuisance tripping of upstream breakers. Equipped with true 48V back-bias, full communications are retained when AC is removed.



### Applications

- Telecommunications Networks
- Digital Subscriber Line (DSL)
- Indoor/Outdoor Wireless
- Routers/Switches
- Fiber in the Loop
- Transmission
- Data Networks
- PBX

### Key Features

- Developed for Extended temperature range
- Redundant fan cooling
- 1U height, hi power density
- Front panel LED indicators
- Wide range AC input
- 48V back bias
- Hot pluggable
- Digital load sharing over robust RS485 communications
- RoHS compliant

### Specifications

INPUT	NE050AC48ATEZ	NE075AC48ATEZ
Voltage Range	95-275Vac	95-305Vac
Input Current	15-12A @ 100-120Vac 15-12A @ 200-240Vac	15 @ 100-120Vac 22A @ 200-277Vac
Input Frequency	45 - 66Hz	45 - 66Hz
Power Factor	0.98 at>50% load	0.98 at>50% load
Efficiency	> 96% (Peak 96.9%)	> 96% (Peak 96.9%)
Total Harmonic Distortion	<5% @loads over 50%	<5% @loads over 50%

OUTPUT	NE050AC48ATEZ	NE075AC48ATEZ
Voltage Adjust Range	42-58Vdc	42-58Vdc
Voltage Nominal	54.5V	54.5V
Regulation (with controller)	±0.05% typical	±0.05% typical
Ripple	100mVrms	100mVrms
Output Current		
- High-Line	50A @ 54.5V (57A @ 48V)	75A @ 54.5V (82A @ 48V)
- Low-Line	22A @ 54.5V	22A @ 54.5V
- High-Line in legacy shelf	50A @ 54.5V	
Heat Dissipation @ max out <sup>1</sup>	158W / 539 BTU/hr	249W/850 btu @ max out
Watts per cubic inch	24W	34W

<sup>1</sup>Special room cooling may be required.

# Network Equipment Racks & Accessories

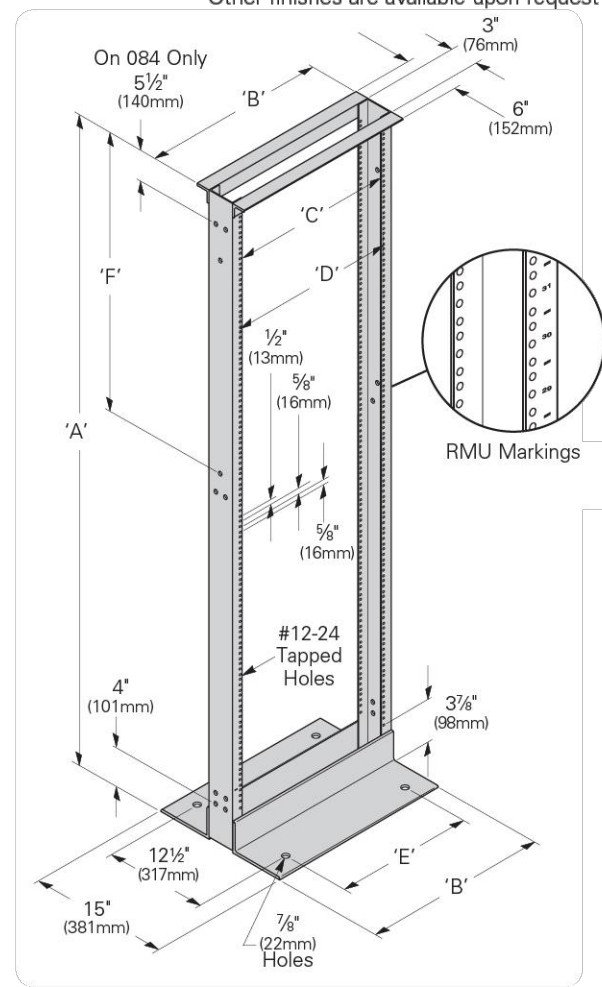
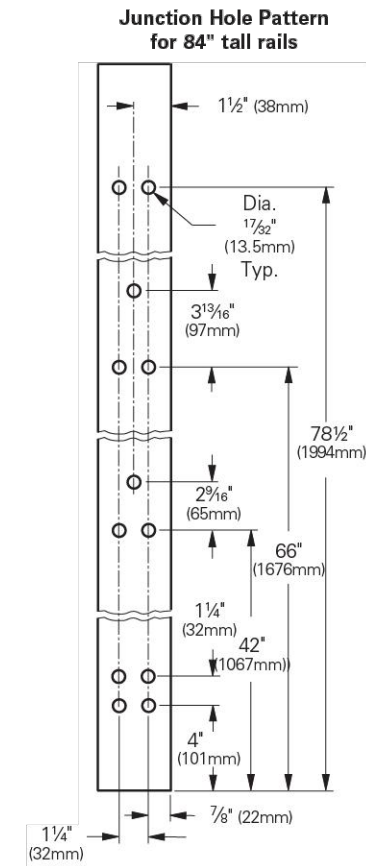
Two-Post Rack

## Two-Post Network Equipment Rack 3" Uprights, 19" & 23" Panel Mounting, Customer Premise

- Universal junction hole pattern matches most manufacturers racks
- #12-24 panel mounting holes
- Conformance to EIA/ECA-310-E
- Load Rating: 1200 lbs. (544kg) for up to 84" (2133mm) height or 1000 lbs. (453kg) for 96" (2438mm) and 108" (2743mm) weight capacity when evenly distributed along the height of the rack
- Permanently stamped rack mount unit (RMU) markings included
- Packaged unassembled in protective carton suitable for parcel shipment
- Assembles in about ten (10) minutes using standard hand tools
- Includes thirty (30) dog point combo head (Phillips and flat blade) mounting screws
- Double sided universal [ $\frac{5}{8}$ " (16mm),  $\frac{5}{8}$ " (16mm),  $\frac{1}{2}$ " (13mm)] mounting spacing
- Twin  $1\frac{1}{2}$ " (58mm) x  $1\frac{1}{4}$ " (50mm) top angles for rigidity
- Tapped assembly holes eliminate the need for nuts and simplifies assembly and squaring
- UL Listed (File No. E171936) as a communications circuit accessory
- Material: Aluminum uprights with steel top/bottom angles
- See page ii for link to OPM approvals
- See SB588A page 44 for anchor kits
- Finish \_\_: Aluminum - brushed (AL) uprights with silver powder coated top & bottom angles  
Flat black powder coat (FB)  
Telco gray powder coat (TG)  
Other finishes are available upon request

Network equipment racks & accessories

Network equipment racks & accessories



# Network Equipment Racks & Accessories

Two-Post Rack

## Two-Post Network Equipment Rack 3" Uprights, 19" & 23" Panel Mounting, Customer Premise

	Dimensions			
	19" (482mm) Rack Width		23" (594mm) Rack Width	
	In.	(mm)	In.	(mm)
'A' Overall Height	36" - 108"	(914 - 2743)	36" - 108"	(914 - 2743)
'B' Overall Width	20 $\frac{5}{16}$ "	(516)	24 $\frac{5}{16}$ "	(617)
'C' Panel Mounting	18 $\frac{5}{16}$ "	(465)	22 $\frac{5}{16}$ "	(567)
'D' Usable Inside Width	17 $\frac{3}{4}$ "	(451)	21 $\frac{3}{4}$ "	(552)
'E' Base Anchor Spacing	16"	(406)	20"	(508)

### Universal Spacing [ $\frac{5}{8}$ " (16mm), $\frac{5}{8}$ " (16mm), $\frac{1}{2}$ " (13mm)]

Part Number	'A' Height		'F' Spacing		Mounting Spaces	Shipping Weight	
	In.	(mm)	In.	(mm)		Lbs.	(kg)
<b>19" (482mm) Rack Width</b>							
SB556036XU	36"	(914)	6"	(152)	17	22.0	(10.0)
SB556048XU	48"	(1219)	3 $\frac{1}{16}$ "	(87)	24	24.0	(10.9)
SB556072XU	72"	(1829)	27 $\frac{1}{16}$ "	(697)	38	27.5	(12.5)
SB556084XU	84"	(2133)	39 $\frac{7}{16}$ "	(1001)	45	30.0	(13.6)
SB556096XU	96"	(2438)	51 $\frac{7}{16}$ "	(1306)	51	31.5	(14.3)
SB556108XU	108"	(2743)	54 $\frac{3}{16}$ "	(1376)	58	33.5	(15.2)
<b>23" (584mm) Rack Width</b>							
SB558036XU	36"	(914)	6"	(152)	17	24.5	(11.1)
SB558048XU	48"	(1219)	3 $\frac{1}{16}$ "	(87)	24	26.5	(12.0)
SB558072XU	72"	(1829)	27 $\frac{1}{16}$ "	(697)	38	30.0	(13.6)
SB558084XU	84"	(2133)	39 $\frac{7}{16}$ "	(1001)	45	32.0	(14.5)
SB558096XU	96"	(2438)	51 $\frac{7}{16}$ "	(1306)	51	34.0	(15.4)
SB558108XU	108"	(2743)	54 $\frac{3}{16}$ "	(1376)	58	36.0	(16.3)

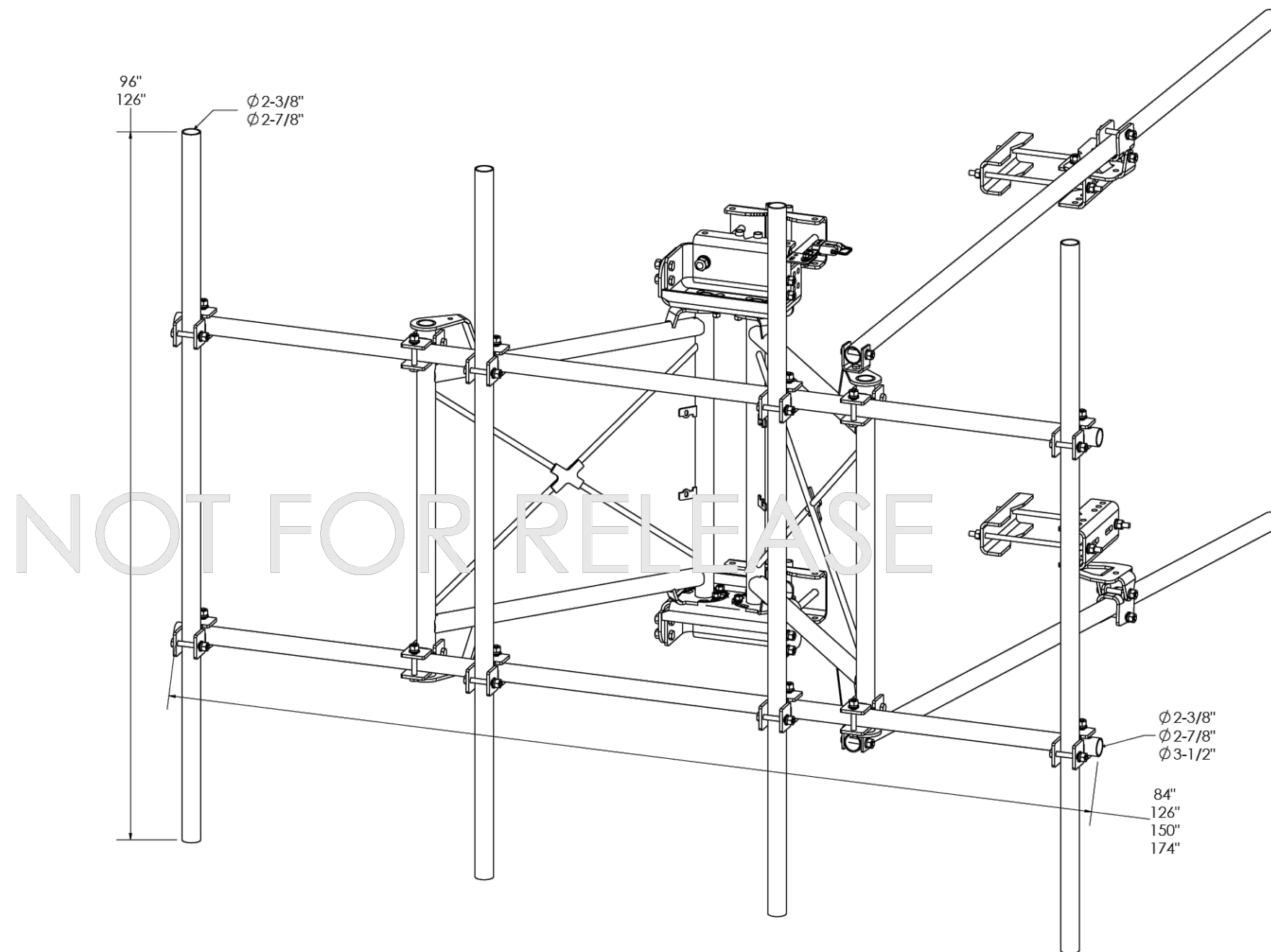
Specify part number and finish when ordering.

SUPPLEMENTAL

SHEET NUMBER:  
**R-606**

REVISION:  
-

# GUARDIAN SECTOR FRAME



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SHEET	THIRD ANGLE PROJECTION	CATEGORY	01_Lattice Tower	4			
1 OF 24		SERIES	01_V-Frames	3			
11/29/2022	SCALE 1:14	TYPE	PV-SFR-GS_Guardian	2			
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4°, BEND ±2° ALL OTHERS: ±1/16"		BY	DJN	1	GROUND BAR	11/10/22	GUARDIAN SECTOR FRAME
		CHECKED	SJS	0	INITIAL RELEASE	2/15/21	DOCUMENT NUMBER
		STATUS	NOT FOR RELEASE	REV	DESCRIPTION	DATE	SFR-ENG-01-R1
							REV
							1



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## 1 PROPOSED SECTOR MOUNT DETAIL

SCALE: N.T.S.

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

SUPPLEMENTAL

SHEET NUMBER: R-607  
REVISION: -



Colliers Engineering & Design  
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 Brentwood, TN 37027  
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 elizabeth.myers@collierseng.com

Mount Structural Analysis Report  
 (3) 10.50-Ft Sector Frames

August 7, 2025  
 Site ID: 5000025813-VZW / THOMAS  
 Page | 5

**Replacement Antenna Mount Analysis Report and PMI Requirements**

Mount Analysis-R  
 SMART Tool Project #: 10316998  
 Colliers Engineering & Design Project #: 21941232 (Rev. 1)

August 7, 2025

**Site Information**

Site ID: 5000025813-VZW / THOMAS  
 Site Name: THOMAS  
 Carrier Name: Verizon Wireless  
 Address: 744 NW Spradley Road  
 Lake City, Florida 32055  
 Columbia County  
 Latitude: 30.366228°  
 Longitude: -82.629419°

**Structure Information**

Tower Type: 300-Ft Guyed  
 Mount Type: 10.50-Ft Sector Frame

FUZE ID # 16276345

**Analysis Results**

Sector Frame: 40.0% Pass w/ Mount Replacement\*  
 (3) Perfect Vision – PV-SFR-GS10-20-AP1

\*Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

**\*\*\*Contractor PMI Requirements:**

Included at the end of this MA report  
 Available & Submitted via portal at <https://pmi.vzwsmart.com>  
 For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

Report Prepared By: Andy Hanes



This item has been digitally signed and sealed by Gilberto Martinez on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

**Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:**

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	13.9	9.6	23.0	18.7
0.5	21.3	15.5	34.2	28.4
1	28.1	20.6	44.9	37.4

**Notes:**

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector(s).
- Ka factors included in (EPA)a calculations

**Requirements:**

The proposed antenna mounts are **SUFFICIENT** for the final loading configuration (attachment 2) upon completion of the mount replacement (attachment 3) and requirements below.

Refer to document at the end of this form for special instructions. Contact EOR if special instructions are not available.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

**Attachments:**

1. Contractor Required Post Installation Inspection (PMI) Report Deliverables
2. Antenna Placement Diagrams
3. Mount Manufacturer Drawings
4. Existing Mount Photos
5. Analysis Calculations
6. Mount-Tower Interaction Check

**PMI INSTRUCTIONS:**

Contractor shall remove existing mount and associated hardware. Contractor shall restore any degradation in galvanization on tower due to removed mount and protect with two (2) coats of Zinga or Zinc Kote.

Contractor shall install the proposed Perfect Vision – PV-SFR-GS10-20-AP1 mounts in accordance with manufacturer specifications and the Mount Replacement Sketch. Contact EOR if these documents are not available.

Contractor shall install mount pipes with vertical offsets as shown in the Mount Replacement Sketch.

Contractor shall install tiebacks on right side of mount, refer to Mount Replacement Sketch. Attach tiebacks to adjacent tower legs. Proposed tieback shall extend no more than 12" beyond the plane of the tower face. Contractor shall trim as required and protect cut end with two (2) coats of Zinga or Zinc Kote.

Contractor shall install proposed OVP to the top left standoff horizontal in alpha sector. Install existing OVP to the top left standoff horizontal in beta sector.

Contractor shall inspect climbing facilities and safety climb and ensure they are in good condition. Contractor shall install safety climb wire rope guides in locations where wire rope is contacting the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of Zinga or Zinc Kote. Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required.

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.

**MOUNT ANALYSIS**

SUPPLEMENTAL

SHEET NUMBER:  
**R-608**

REVISION:  
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