VICINITY MAP

VERIZON WIRELESS
ANTENNA AMENDMENT DRAWINGS

AMERICAN TOWER®

ATC SITE NAME: LAKE CITY FL SQA
ATC SITE NUMBER: 412243
VERIZON WIRELESS SITE NAME: PHILLIPS LAKE CITY
VERIZON WIRELESS SITE NUMBER: 131313
VERIZON WIRELESS FUZE PID: 16276469
VERIZON WIRELESS MDG LOCATION CODE: 5000077708
SITE ADDRESS: 233 N W RANCH COURT
LAKE CITY, FL 32055-8079

LOCATION MAP

COMPLIANCE CODE

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.

1. 2023 FLORIDA BUILDING CODE, 8TH EDITION
2. ANSI/TIA-222-H
3. 8TH EDITION FLORIDA FIRE PREVENTION CODE
4. 2020 NATIONAL ELECTRICAL CODE (NFPA 70)
5. CITY/COUNTY ORDINANCES

DESIGN CRITERIA FOR STRUCTUAL ANALYSIS BY ATC DATED MAY 17, 2024:

ULTIMATE WIND SPEED:	119 MPH (3-SECOND GUST)
SERVICE WIND SPEED:	60 MPH
RISK CATEGORY:	II
EXPOSURE CATEGORY:	C
TOPOGRAPHIC CATEGORY:	1

UTILITY COMPANIES

POWER COMPANY: FLORIDA POWER & LIGHT
PHONE: (800) 226-3545

TELEPHONE COMPANY: VERIZON
PHONE: (888) 922-0204

Always call 811 two full business days before you dig
Sunshine811.com
www.sunshine811.com

PROJECT SUMMARY

SITE ADDRESS:

233 NORTH WEST RANCH COURT

LAKE CITY, FL 32055-8079

COUNTY: COLUMBIA

REGISTERED COORDINATES:

LATITUDE: 30° 13' 32.60" N NAD 83

LONGITUDE: 82° 43' 29.40" W

GROUND ELEVATION: 465' AMSL

GEOGRAPHIC COORDINATES:

LATITUDE: 30.22575, 30° 13' 32.59" N

LONGITUDE: -82.72485, 82° 43' 29.39" W

ZONING INFORMATION:

JURISDICTION: COLUMBIA COUNTY

PARCEL ID: 163S1602156002

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS

ENGINEER:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603

PROPERTY OWNER:

REGISTER DANIEL P SR
PO BOX 1683
LAKE CITY, FL 32056

PROJECT LOCATION DIRECTIONS

DIRECTIONS: FROM I-75 IN LAKE CITY TAKE EXIT 427 (HWY 90) WEST. CONTINUE WEST FOR 1.8 MILES TO BROWN RD AND TAKE A RIGHT. FOLLOW BROWN RD TO THE LEFT BESIDE THE RR TRACKS. TAKE RIGHT ON NW BERT AVE OVER THE RR TRACKS. CONTINUE GOING RIGHT AT THE FORK TO NASH RD. TAKE A RIGHT. TAKE NEXT LEFT ONTO NW EDSEL ST. FOLLOW ROAD UPHILL TOWER IN THE BACK OF PROPERTY.SITE ADDRESS DOES NOT MATCH THE 911 ADDRESS. THE SITE ADDRESS IS THE CORRECT ADDRESS.

PROJECT DESCRIPTION

VERIZON WIRELESS IS PROPOSING THE FOLLOWING WORK TO BE COMPLETED ON AN EXISTING 300' GUYED TOWER:

TOWER WORK:
REMOVE (3) SECTOR FRAME MOUNT(S), (12) ANTENNA(S), (3) RRU(s), AND (16) 1-5/8" COAX CABLE(S).

INSTALL (3) SECTOR FRAME MOUNT(S) (9) ANTENNA(S), (6) RRU(s), (1) OVP(s), AND (1) 6x12 HYBRIFLEX (1-1/4" HYBRIFLEX) CABLE(S).

GROUND WORK:
REMOVE (1) CDMA CABINET(S), (1) 6201 ODE CABINET(S), (1) EBRE CABINET(S), (6) RRU(s), (1) 200A PPC(s), (1) ATS(s), (1) 30KW LP GENERATOR(S), (1) 250 GAL. PROPANE TANK(S), AND BATTERY(IES).

INSTALL (3) HT200ET BATTERY STRING(S), (1) 200A ILC(s), (1) 50KW LP GENERATOR(S), (1) 500 GALLON LP TANK(S), (1) BATTERY CABINET(S), AND (1) CONSOLIDATED CABINET(S).

INSTALL ROUTER(S), BASEBAND(s), UPCONVERTER(s), AND SITEBOSS IN PROPOSED CONSOLIDATED CABINET(s).

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.
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. § 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).

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	06/21/24	PAP
G-002	GENERAL NOTES	0	06/21/24	PAP
C-001	OVERALL SITE PLAN	0	06/21/24	PAP
C-101	DETAILED SITE PLAN	0	06/21/24	PAP
C-102	DETAILED EQUIPMENT LAYOUT	0	06/21/24	PAP
C-201	TOWER ELEVATION	0	06/21/24	PAP
C-401	ANTENNA INFORMATION & SCHEDULE	0	06/21/24	PAP
C-501	CONSTRUCTION DETAILS	0	06/21/24	PAP
C-502	CONSTRUCTION DETAILS	0	06/21/24	PAP
E-101	PANEL SCHEDULES	0	06/21/24	PAP
E-102	ONE-LINE DIAGRAM	0	06/21/24	PAP
E-103	GROUNDING PLAN & SCHEMATIC	0	06/21/24	PAP
E-104	GROUNDING PLAN & SCHEMATIC	0	06/21/24	PAP
E-501	GROUNDING DETAILS	0	06/21/24	PAP
R-601 - R-607	SUPPLEMENTAL			

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT:	HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT NUMBER:	10231382
VZW LOCATION CODE (PSLC):	131313
***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT	
MOUNT MODIFICATION REQUIRED:	YES
VZW APPROVED SMART KIT VENDORS:	REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS

AMERICAN TOWER

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REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	SAS	05/28/24
B	90% CONSTRUCTION	KAG	06/14/24
0	100% CONSTRUCTION	PAP	06/21/24

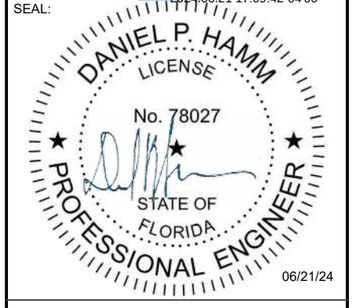
DIGITAL/ELECTRONIC SEAL:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DANIEL P. HAMM, P.E. 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.

Daniel P Hamm
PE #78027
I agree to the terms defined by the placement of my signature on this document
2024.06.21 17:09:42-04'00'

SEAL:



06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

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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 NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
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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AMERICAN TOWER

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B	90% CONSTRUCTION	KAG	06/14/24
0	100% CONSTRUCTION	PAP	06/21/24

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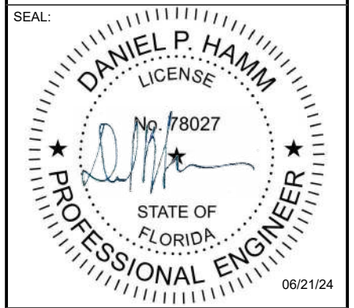
SEAL:



06/21/24

verizon

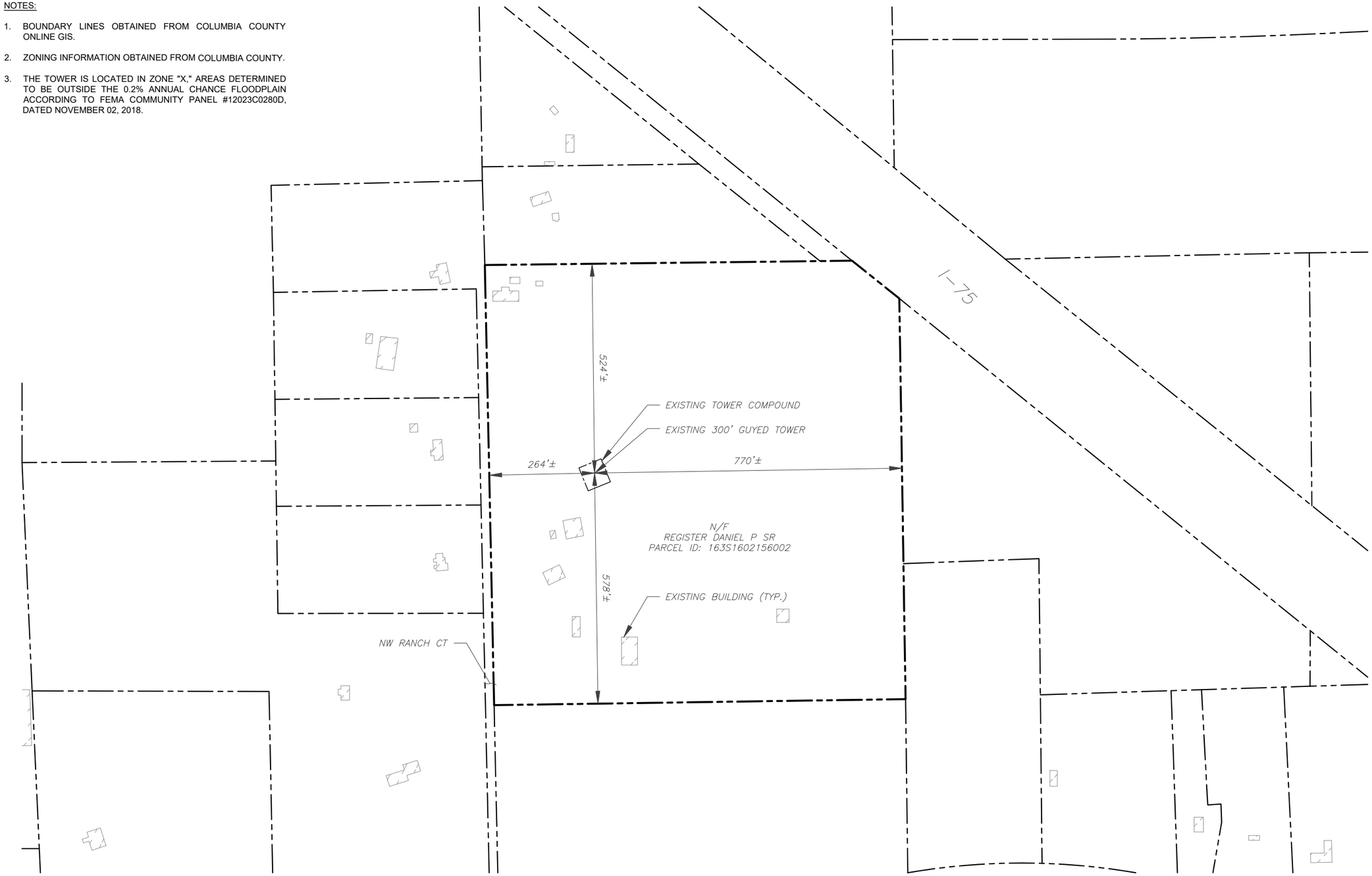
DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

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 #12023C0280D, DATED NOVEMBER 02, 2018.



LEGEND

- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING LEASE AREA

1 OVERALL SITE PLAN
SCALE: 1" = 250'

0 250' 500'

SCALE: 1"=250' (11X17)
1"=125' (22X34)

N

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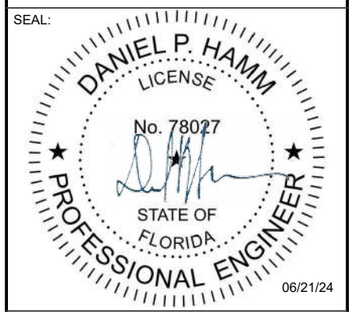

06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

OVERALL SITE PLAN

SHEET NUMBER:	REVISION:
C-001	0

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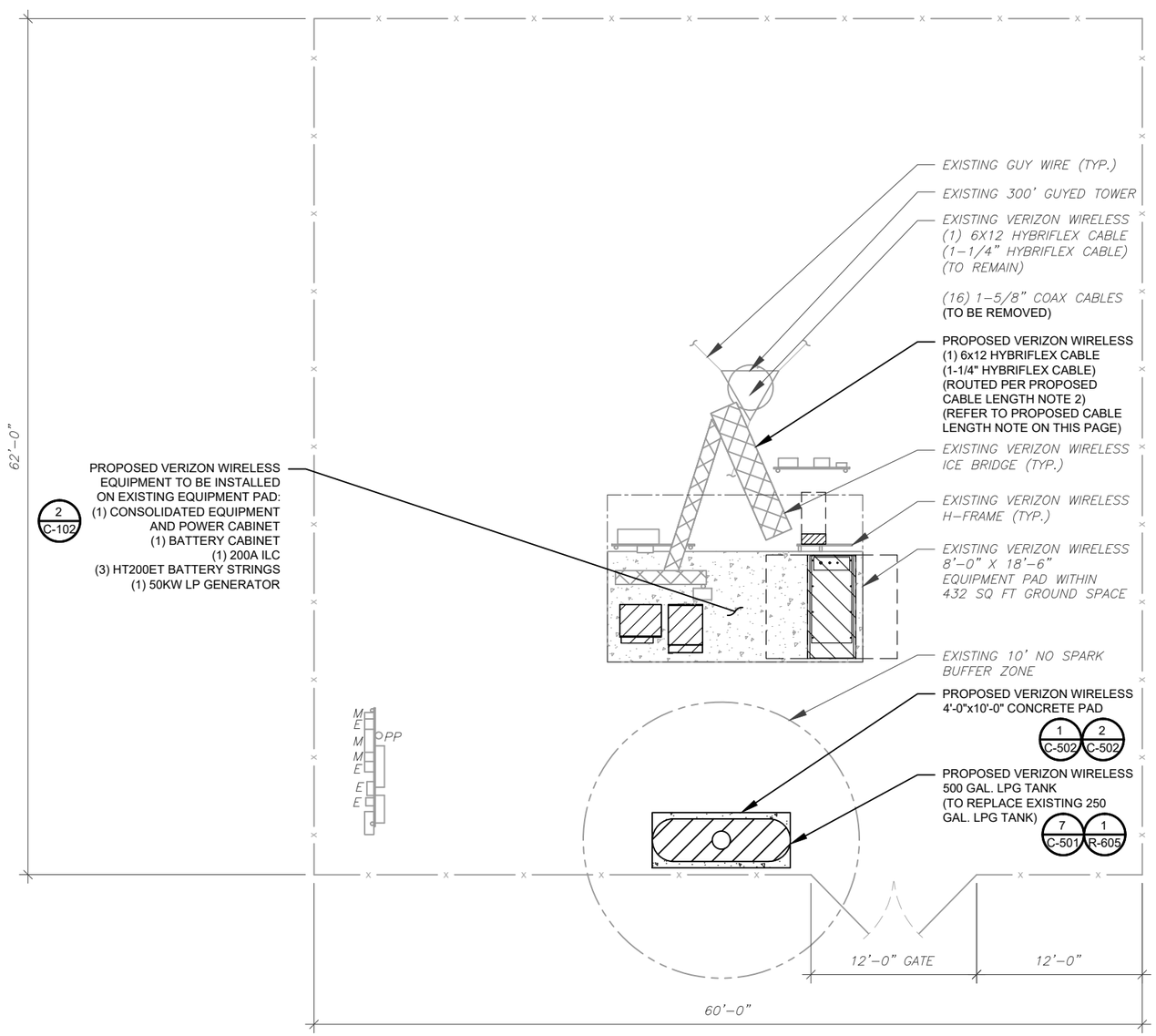
SITE PLAN NOTES:

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.

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



1 DETAILED SITE PLAN
SCALE: 1" = 10'

0 10' 20'

SCALE: 1"=10' (11X17)
1"=5' (22X34)

PROPOSED CABLE NOTES:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **365'**. 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.
2. 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).

AMERICAN TOWER

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

ATC SITE NUMBER:
412243
ATC SITE NAME:
LAKE CITY FL SQA
VERIZON WIRELESS SITE NAME:
PHILLIPS LAKE CITY
SITE ADDRESS:
233 N W RANCH COURT
LAKE CITY, FL 32055-8079

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	SAS	05/28/24
B	90% CONSTRUCTION	KAG	06/14/24
0	100% CONSTRUCTION	PAP	06/21/24

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SEAL:
DANIEL P. HAMM
LICENSE
No. 78027
STATE OF FLORIDA
PROFESSIONAL ENGINEER
06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

DETAILED SITE PLAN

SHEET NUMBER: C-101
REVISION: 0

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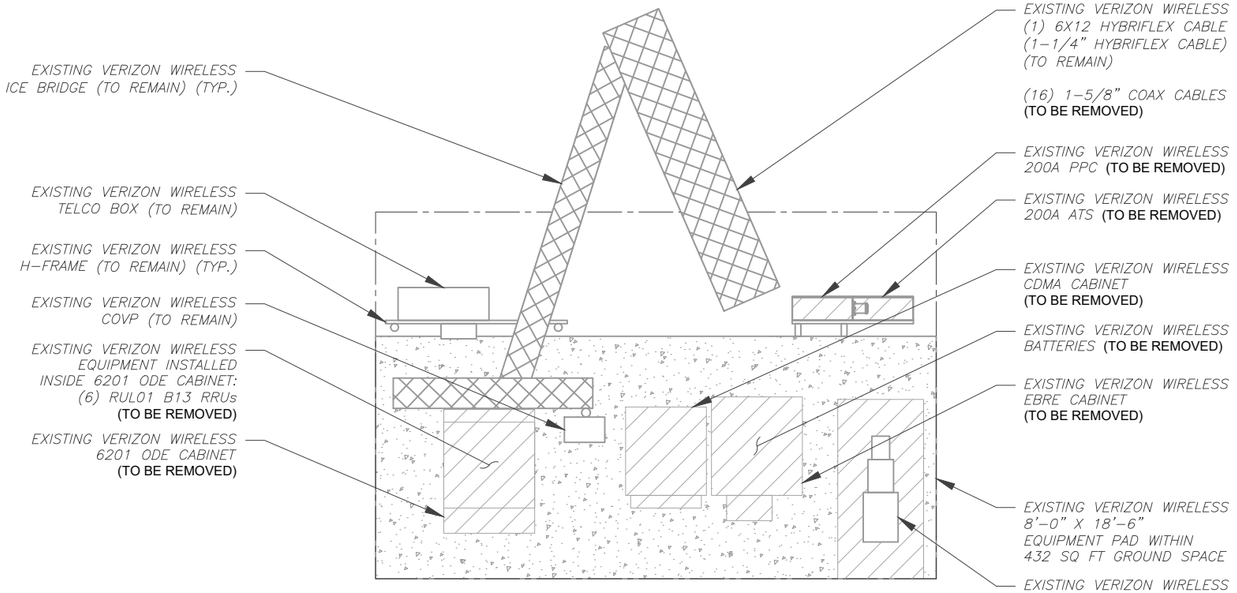
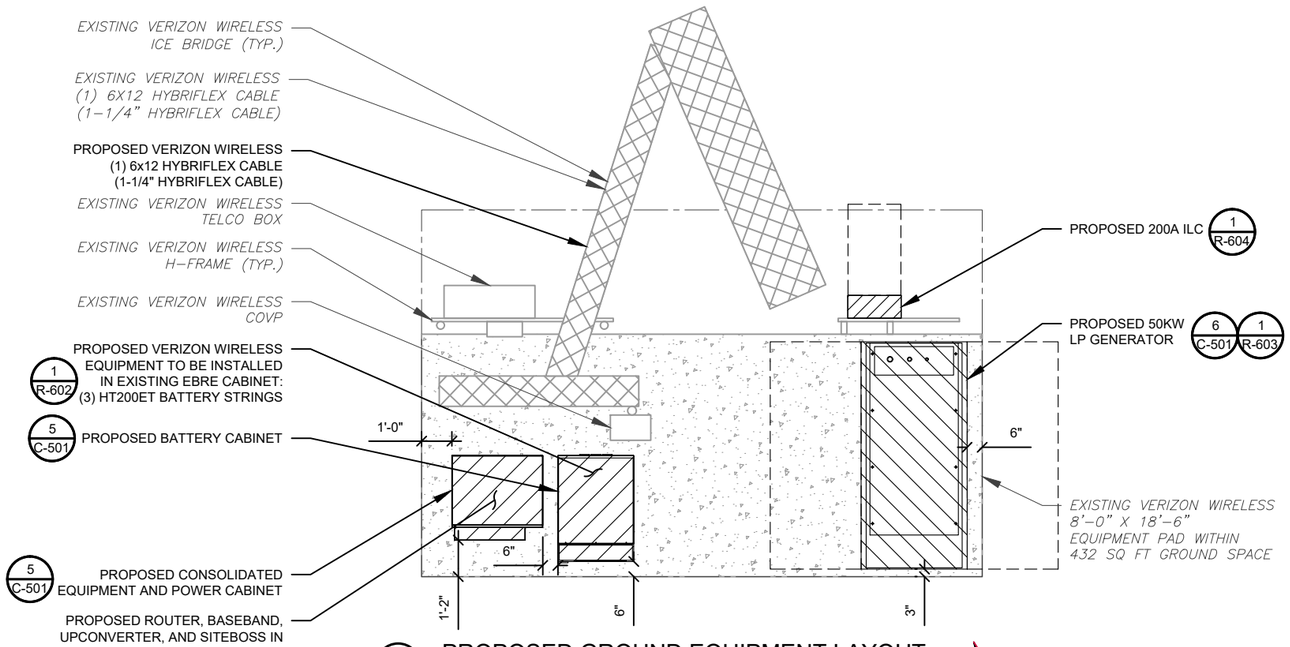


1 EXISTING GROUND EQUIPMENT LAYOUT

SCALE: 1" = 5'

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)



2 PROPOSED GROUND EQUIPMENT LAYOUT

SCALE: 1" = 5'

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

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ATC SITE NUMBER:
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LAKE CITY FL SQA

VERIZON WIRELESS SITE NAME:
PHILLIPS LAKE CITY

SITE ADDRESS:
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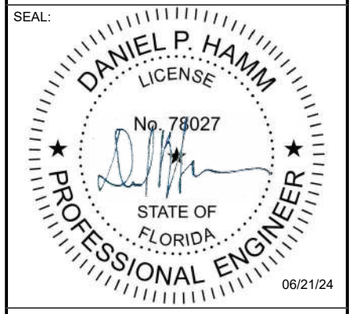

06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

DETAILED EQUIPMENT LAYOUT

SHEET NUMBER:	REVISION:
C-102	0

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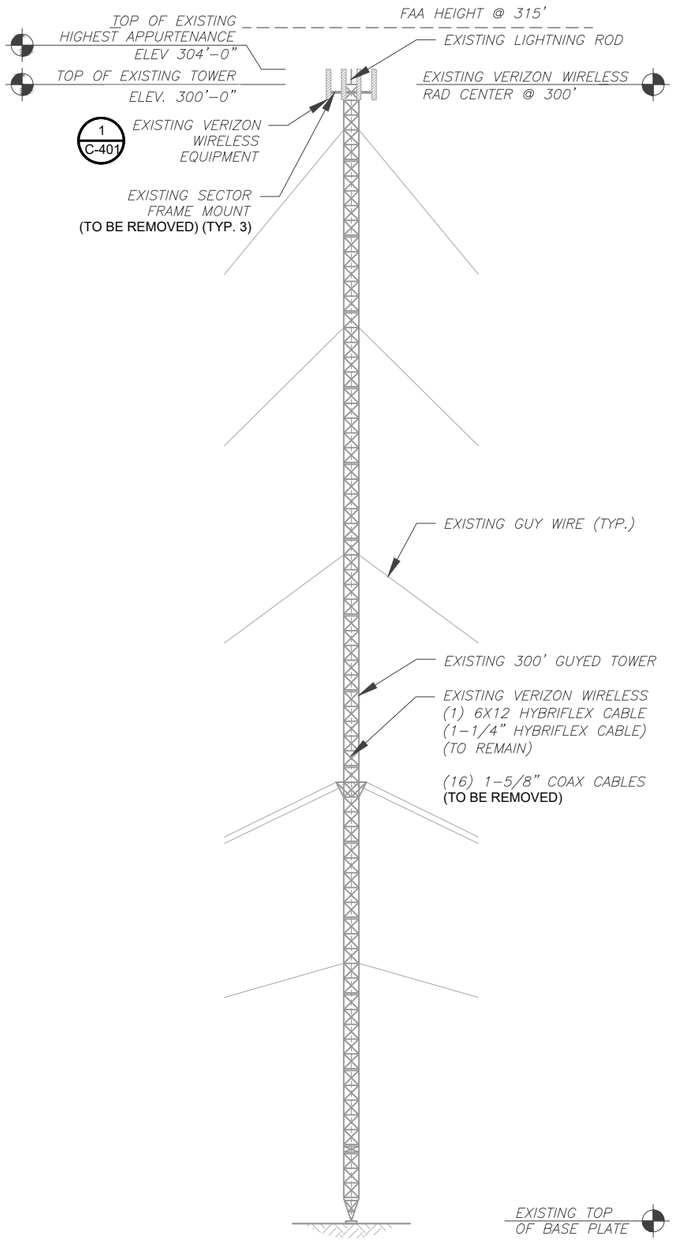
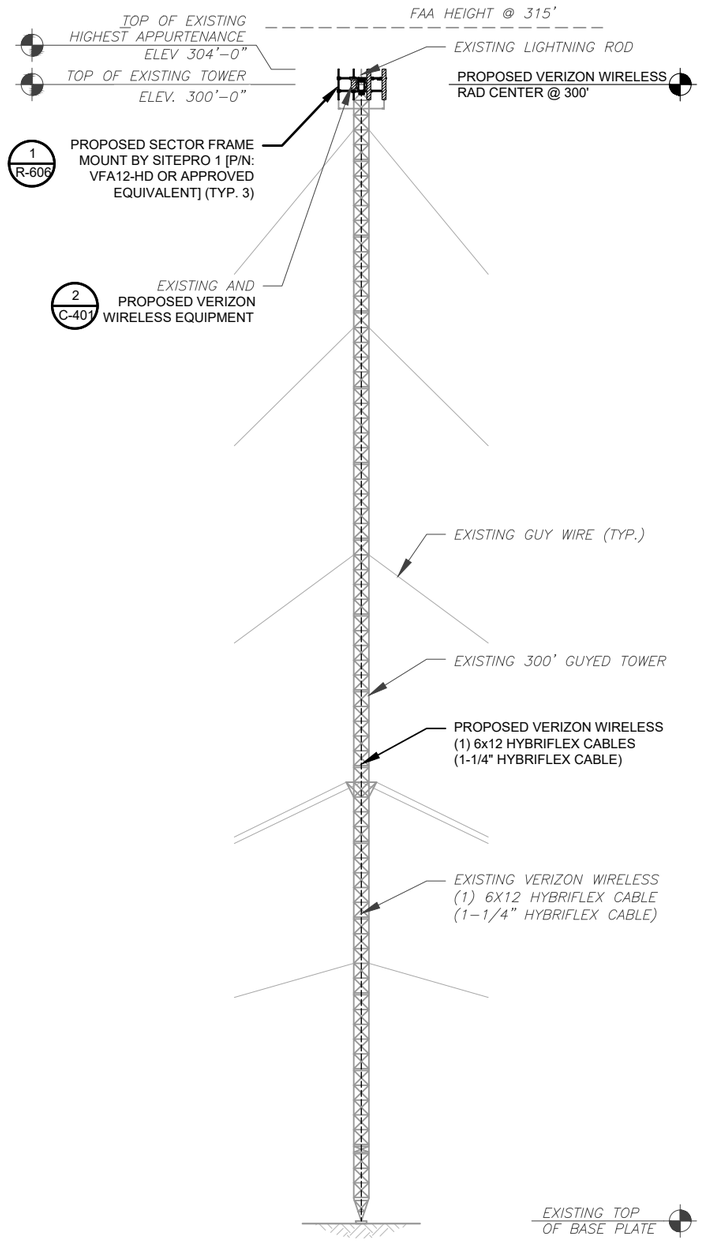


1 EXISTING TOWER ELEVATION
SCALE: N.T.S.



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

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING AND DESIGN, DATED 17 MAY, 2024. 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 HIGHER THAN THE TOP OF TOWER.

TOWER NOTES:

1. 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.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. 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).
4. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

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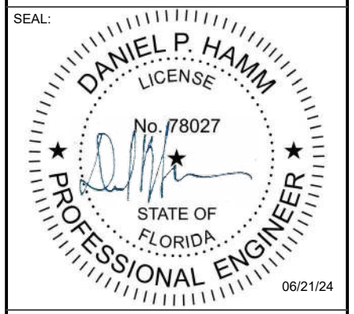

06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

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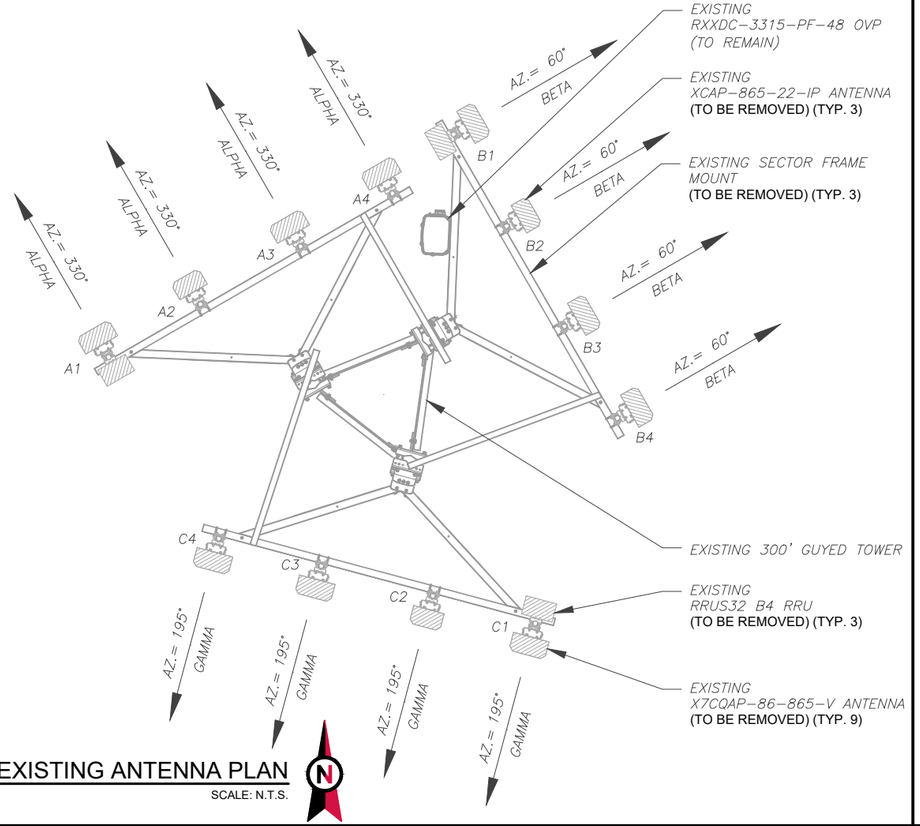
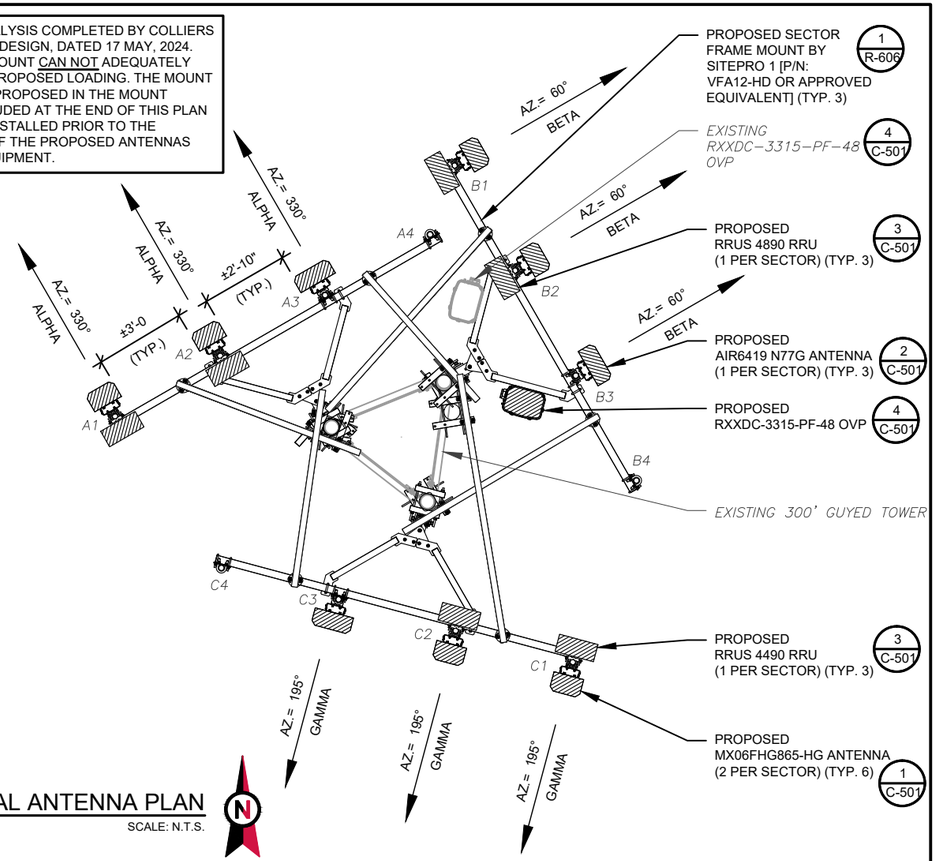


1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 17 MAY, 2024. 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.



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

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	300'	330°	A1	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	(1) RRUS32 B4	RMV
			A2	(1) X7CAP-865-22-IP	–	*	RMV	–	–
			A3	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	–	–
			A4	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	–	–
BETA	300'	60°	B1	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	(1) RRUS32 B4	RMV
			B2	(1) X7CAP-865-22-IP	–	*	RMV	–	–
			B3	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	–	–
			B4	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	–	–
GAMMA	300'	195°	C1	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	(1) RRUS32 B4	RMV
			C2	(1) X7CAP-865-22-IP	–	*	RMV	–	–
			C3	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	–	–
			C4	(1) X7CQAP-86-865-V	LTE 700/LTE AWS	*	RMV	–	–

* - SEE RFDS FOR VALUES

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. TEP DID NOT VERIFY THE EXISTING LOADING. LOADING DATA PROVIDED BY ATC AND VERIZON.

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	300'	330°	A1	MX06FHG865-HG	LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3	*	ADD	(1) RRUS 4490	ADD
			A2	MX06FHG865-HG	LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3	*	ADD	(1) RRUS 4890	ADD
			A3	AIR6419 N77G	5G L-SUB6	*	ADD	-	-
			A4	-	-	-	-	-	-
BETA	300'	60°	B1	MX06FHG865-HG	LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3	*	ADD	(1) RRUS 4490	ADD
			B2	MX06FHG865-HG	LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3	*	ADD	(1) RRUS 4890	ADD
			B3	AIR6419 N77G	5G L-SUB6	*	ADD	-	-
			B4	-	-	-	-	-	-
GAMMA	300'	195°	C1	MX06FHG865-HG	LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3	*	ADD	(1) RRUS 4490	ADD
			C2	MX06FHG865-HG	LTE 700/ 5G 850/LTE 850/ LTE 1900/LTE AWS/ LTE AWS3	*	ADD	(1) RRUS 4890	ADD
			C3	AIR6419 N77G	5G L-SUB6	*	ADD	-	-
			C4	-	-	-	-	-	-

* - SEE RFDS FOR VALUES

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRIFLEX	STATUS
(1) RXXDC-3315-PF-48	*RMN*	–	*(1) 6X12 [(1) 1-1/4"]*	*RMN*
–	–	(16) 1-5/8"	–	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRIFLEX	STATUS
(1) RXXDC-3315-PF-48	*RMN*	–	*(1) 6X12 [(1) 1-1/4"]*	*RMN*
(1) RXXDC-3315-PF-48	ADD	-	(1) 6x12 [(1) 1-1/4"]	ADD

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SITE ADDRESS:
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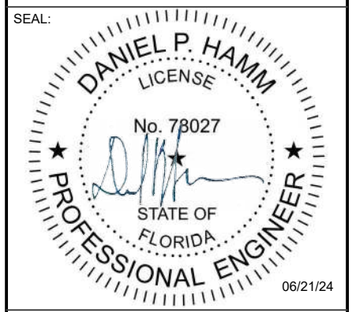


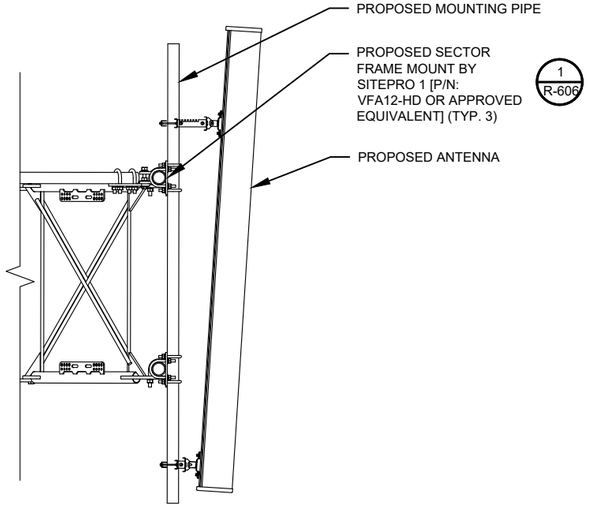
06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

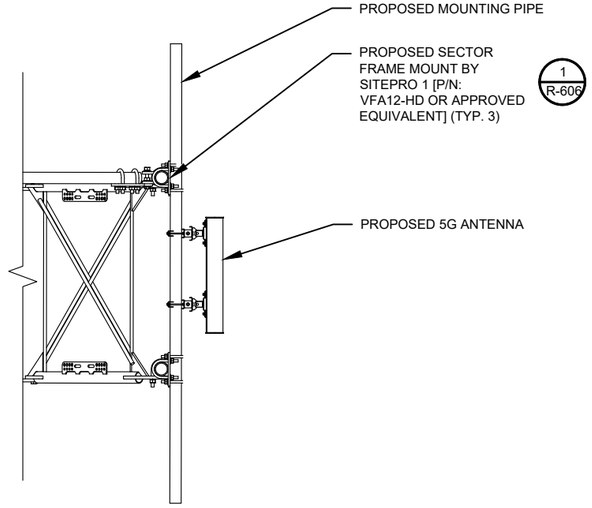
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



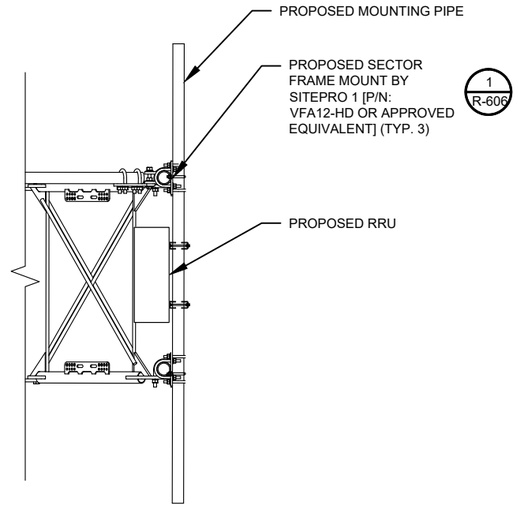
1 PROPOSED ANTENNA MOUNTING DETAIL

SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL

SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL

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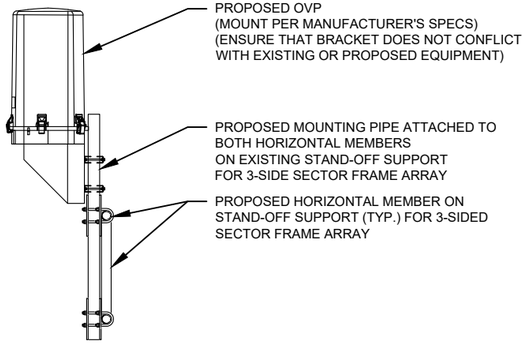
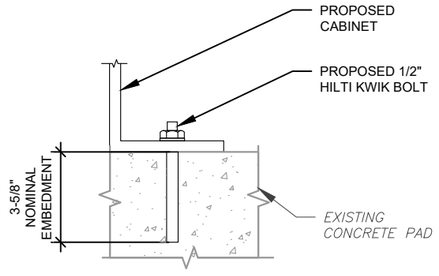


4 PROPOSED OVP MOUNTING DETAIL

SCALE: N.T.S.

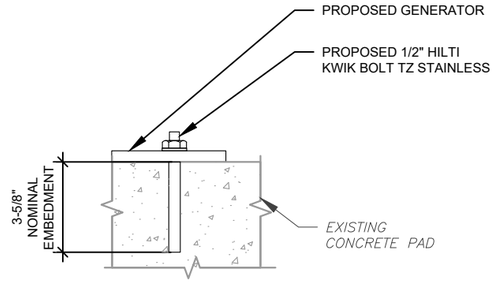


NOTE:

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



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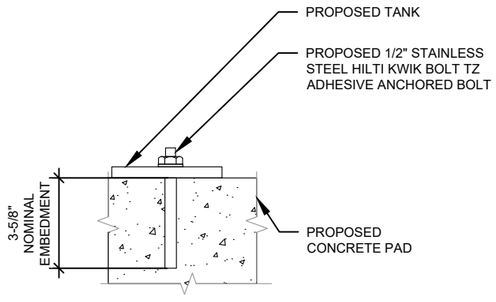
6 GENERATOR ATTACHMENT DETAIL

SCALE: NOT TO SCALE



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7 TANK ATTACHMENT DETAIL

SCALE: NOT TO SCALE

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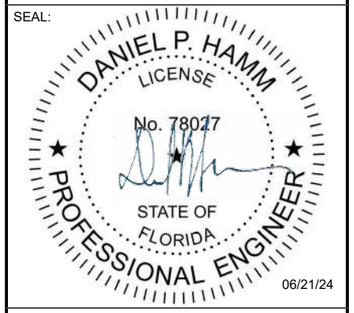

06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

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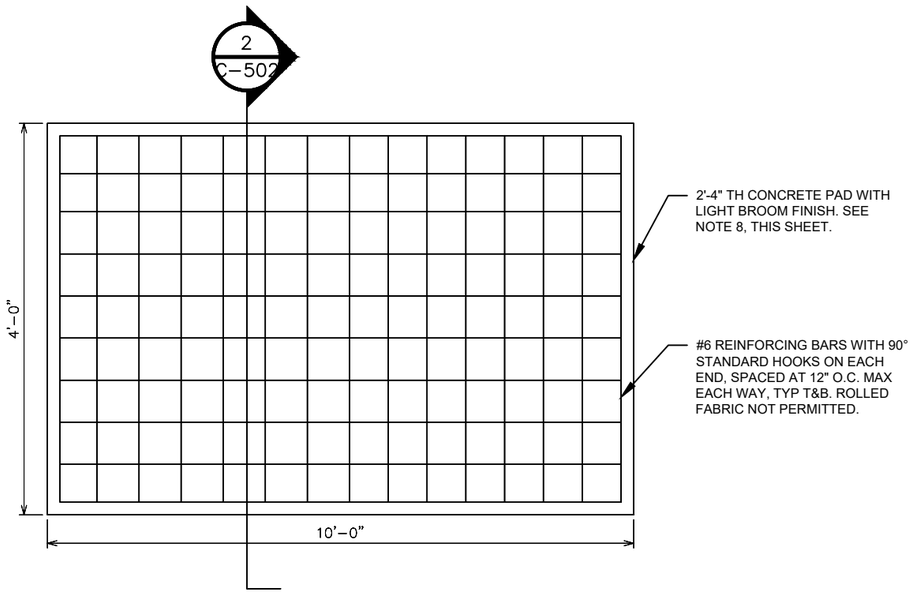
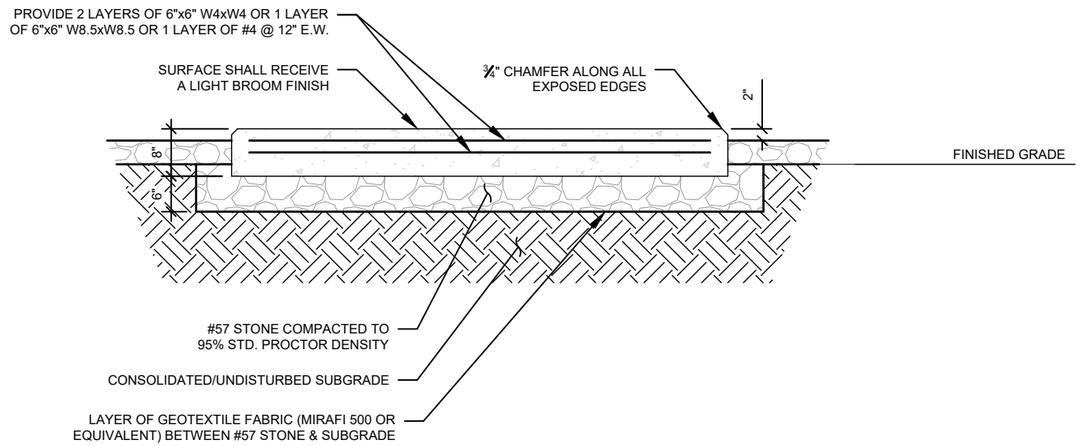


1 PROPOSED CONCRETE PAD FOUNDATION DETAIL

SCALE: N.T.S.



2 PROPOSED CONCRETE PAD SECTION

SCALE: N.T.S.

FOUNDATION NOTES:

1. FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING CAPACITY.
2. CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.
3. REINFORCING STEEL Fy = 60,000 PSI.
4. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTOR METHOD.
5. SURFACE OF FINISHED SLAB SHALL BE LEVEL AND FLAT WITHIN ¼".
6. CONTRACTOR SHALL VERIFY WITH MANUFACTURER ACTUAL DIMENSIONS OF EQUIPMENT PRIOR TO LAYING OUT FOUNDATION.
7. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318-14.
8. ANCHOR GENERATOR TO PROPOSED PAD PER MANUFACTURER SPECIFICATIONS.

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233 N W RANCH COURT
LAKE CITY, FL 32055-8079

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	SAS	05/28/24
B	90% CONSTRUCTION	KAG	06/14/24
0	100% CONSTRUCTION	PAP	06/21/24

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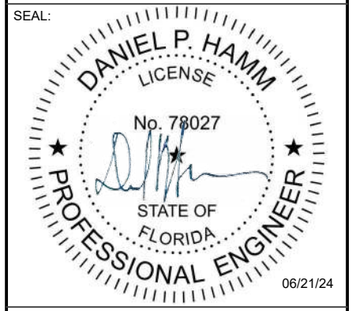
SEAL:



06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-502	0

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NOTES:

ALL CONDUCTORS ARE TYPE THWN (75%) COPPER.

MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50–FT.

INTERSECT/GENERAC INTEGRATED LOAD CENTER INCLUDES 200A MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.

RECTIFIER LOADS ARE CONSIDERED TO BE NON–CONTINUOUS.

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 L1	UNCOMPENSATED VOLT AMPERES L2	TRIP	CKT #	PHASE	CKT #	TRIP	UNCOMPENSATED VOLT AMPERES L1	UNCOMPENSATED VOLT AMPERES L2	LOAD SERVED
***RECTIFIER	1140		30A	1	A	2	30A	1140		***RECTIFIER
		1140		3	B	4			1140	
***RECTIFIER	1140		30A	5	A	6	30A	1140		***RECTIFIER
		1140		7	B	8			1140	
***RECTIFIER	1140		30A	9	A	10	30A	0		FUTURE RECTIFIER
		1140		11	B	12			0	
***RECTIFIER	1140		30A	13	A	14	–	–		SPARE
		1140		15	B	16	–		–	SPARE
**BTS	4000		100A	17	A	18	–	–		SPARE
		4000		19	B	20	20A		180	TELCO RECEPT
SPACE	–		–	21	A	22	20A	180		EEN RECEPT
SPACE		–	–	23	B	24	20A		1000	*GEN BATTERY CHARGER
SPACE	–		–	25	A	26	20A	1500		GEN BLOCK HEATER
SPACE		–	–	27	B	28	–		–	SPARE
SPACE	–		–	29	A	30	–	–		SPARE
VOLT AMPS	8560	8560						3960	3460	VOLT AMPS

L1 VOLT AMPERES	12520	12020	L2 VOLT AMPERES
L1 DEMAND VOLT AMPERES (INCLUDES DEMAND FACTOR)	15650	15025	L2 DEMAND VOLT AMPERES (INLCUDES DEMAND FACTOR)
L1 DEMAND AMPS	130.42	125.21	L2 DEMAND AMPS
	130.42	125.21	MAX DEMAND AMPS
	130.42		

*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 PROPOSED AC PANEL SCHEDULE
SCALE: N.T.S.

AMERICAN TOWER
TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net
FL COA#: 31011

ATC SITE NUMBER:
412243
ATC SITE NAME:
LAKE CITY FL SQA
VERIZON WIRELESS SITE NAME:
PHILLIPS LAKE CITY
SITE ADDRESS:
233 N W RANCH COURT
LAKE CITY, FL 32055-8079

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SEAL:
DANIEL P. HAMM LICENSE No. 78027 STATE OF FLORIDA PROFESSIONAL ENGINEER
06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

PANEL SCHEDULES

SHEET NUMBER:	REVISION:
E-101	0

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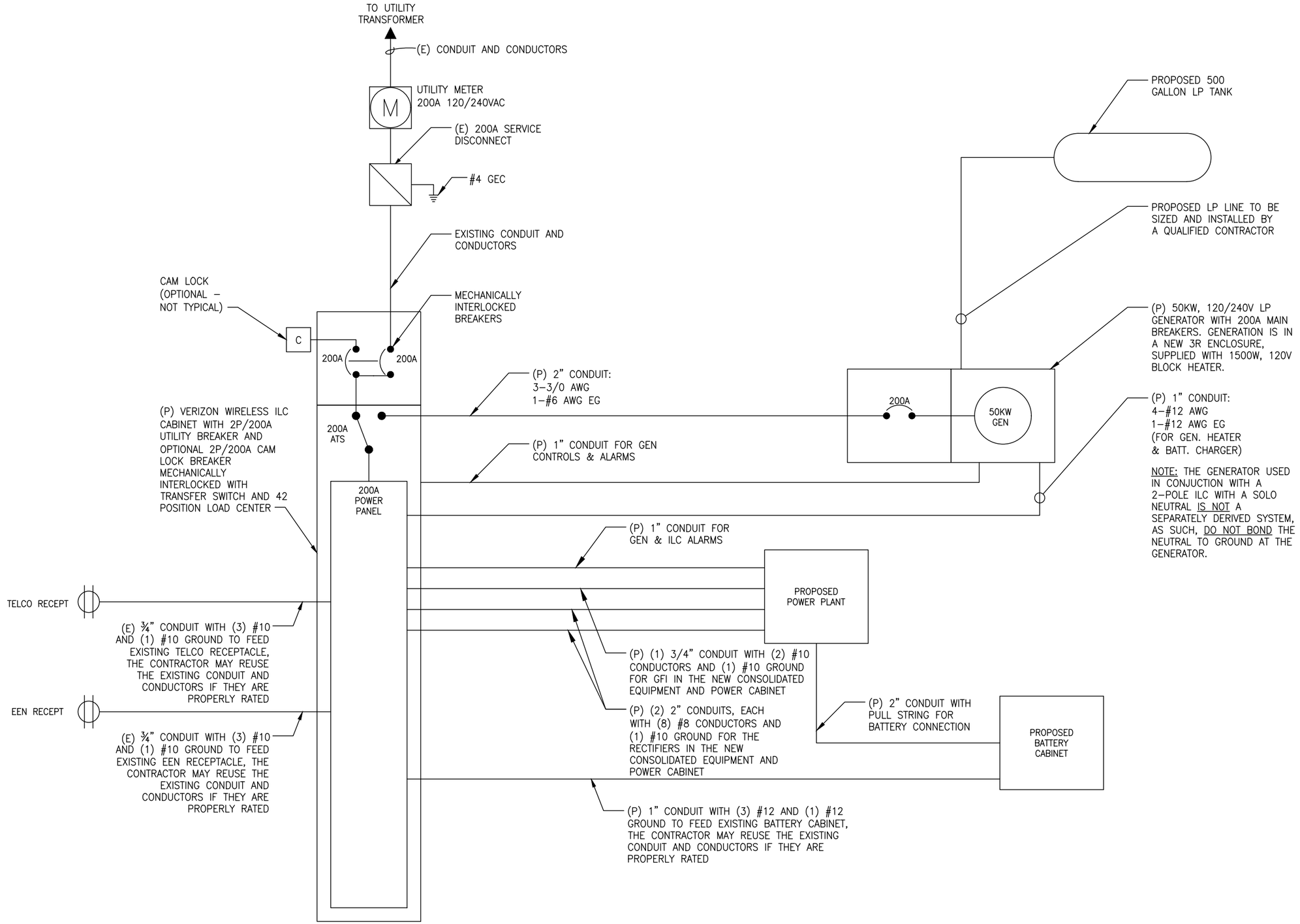

1 ONE-LINE DIAGRAM
SCALE: N.T.S.

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FL COA#: 31011

ATC SITE NUMBER:
412243
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VERIZON WIRELESS SITE NAME:
PHILLIPS LAKE CITY
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06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

ONE-LINE DIAGRAM

SHEET NUMBER:	REVISION:
E-102	0

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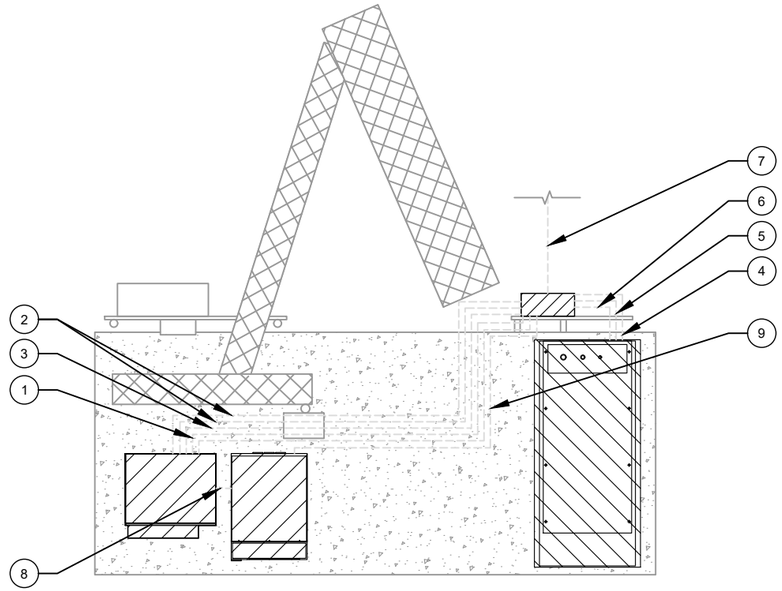
LABEL LIST:

1. (1) 3/4" CONDUIT FOR GFI IN THE NEW CONSOLIDATED EQUIPMENT AND POWER CABINET
2. (2) 2" CONDUITS FOR THE RECTIFIERS IN THE NEW CONSOLIDATED EQUIPMENT AND POWER CABINET
3. (1)-1" CONDUIT FOR GENERATOR AND ILC ALARM FROM ILC TO CONSOLIDATED EQUIPMENT AND POWER CABINET
4. (1)-1" CONDUIT FOR GENERATOR HEATER & BATTERY CHARGER FROM ILC TO GENERATOR
5. (1)-1" CONDUIT FOR ALARM AND CONTROL WIRING FROM ILC TO GENERATOR
6. (1)- 2½" CONDUIT FOR POWER FROM ILC TO GENERATOR
7. (1)-2" CONDUIT FOR POWER FROM SERVICE DISCONNECT/CIRCUIT BREAKER TO ILC
8. (1)-2" CONDUIT FOR BATTERY CABINET FROM CONSOLIDATED EQUIPMENT AND POWER CABINET TO BATTERY CABINET
9. (1)-1" CONDUIT FOR BATTERY CABINET FROM ILC TO BATTERY CABINET. CONTRACTOR TO REUSE CONDUIT AND CONDUIT AND CONDUCTORS IF SUFFICIENTLY SIZED.

NOTES:

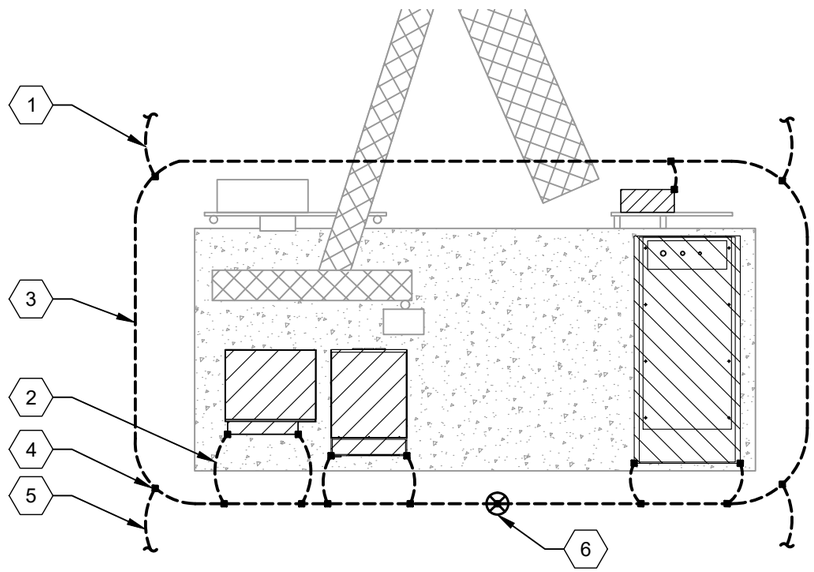
1. POWER AND TELCO CONDUITS RECEIVING CONDUCTORS BY OTHERS TO HAVE PULL ROPES.
2. ALL TELCO CONDUITS ARE TO BE STUBBED IN D-MARC LOCATION.
3. ALL POWER CONDUITS ARE TO BE TERMINATED AT THE METER CENTER.
4. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO TRENCHING. ANY DAMAGE CAUSED TO THE 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 RRUs ARE GROUND MOUNTED, OMIT OVPs AND RUN FIBER/POWER FROM CONSOLIDATED EQUIPMENT AND POWER CABINET DIRECTLY TO RRUs.



1 POWER ROUTING PLAN
SCALE: N.T.S.

GROUNDING KEYED NOTES:

1. BOND TO TOWER GROUND RING
2. GROUNDING ELECTRODE CONDUCTOR PER NEC
3. #2 GROUND RING
4. GROUNDING ELECTRODE (TYP.)
5. BOND TO COMPOUND GROUND RING
6. GROUNDING ELECTRODE WITH TEST WELL



2 EQUIPMENT GROUNDING PLAN
SCALE: N.T.S.

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ATC SITE NUMBER:
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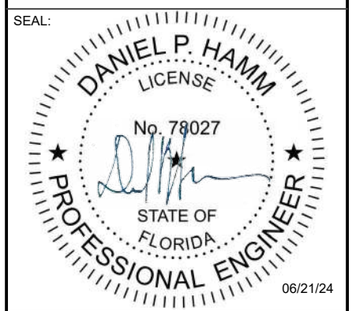

06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

GROUNDING PLAN & SCHEMATIC

SHEET NUMBER:	REVISION:
E-103	0

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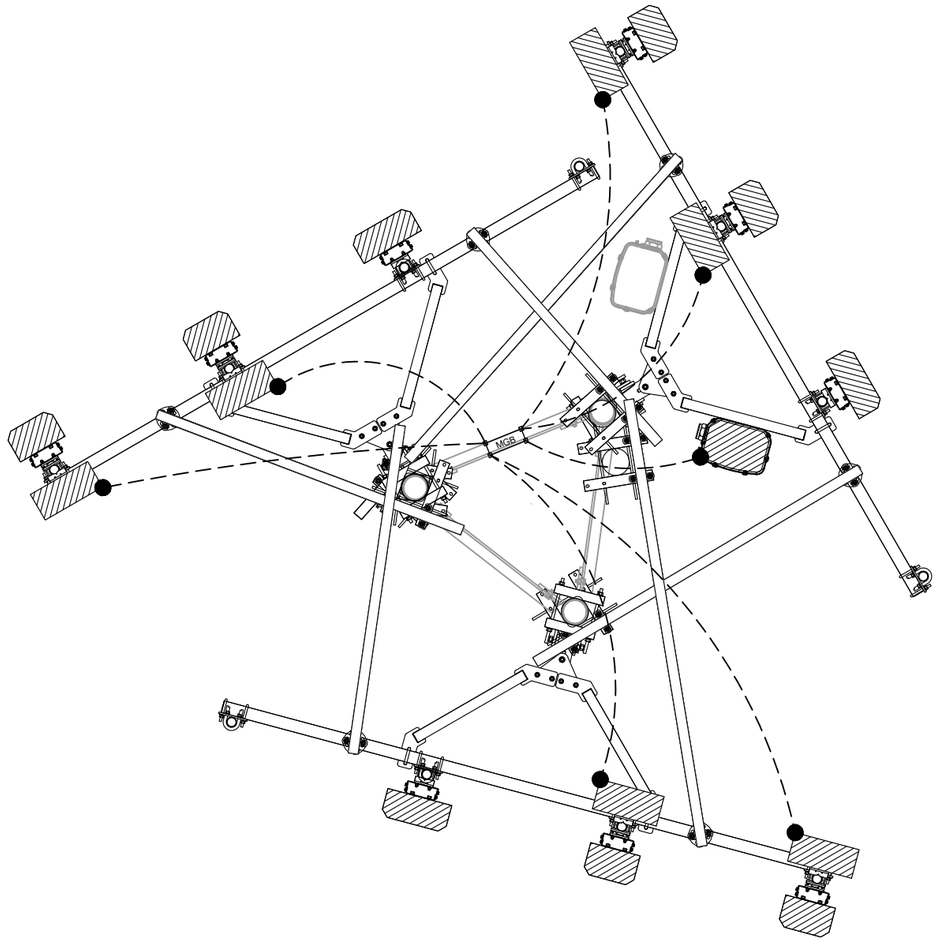

3 ANTENNA GROUNDING PLAN
SCALE: N.T.S.

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OFFICE: (919) 661-6351
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ATC SITE NUMBER:
412243
ATC SITE NAME:
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SEAL:
DANIEL P. HAMM
LICENSE
No. 78027
STATE OF FLORIDA
PROFESSIONAL ENGINEER
06/21/24

verizon

DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

GROUNDING PLAN & SCHEMATIC

SHEET NUMBER:	REVISION:
E-104	0

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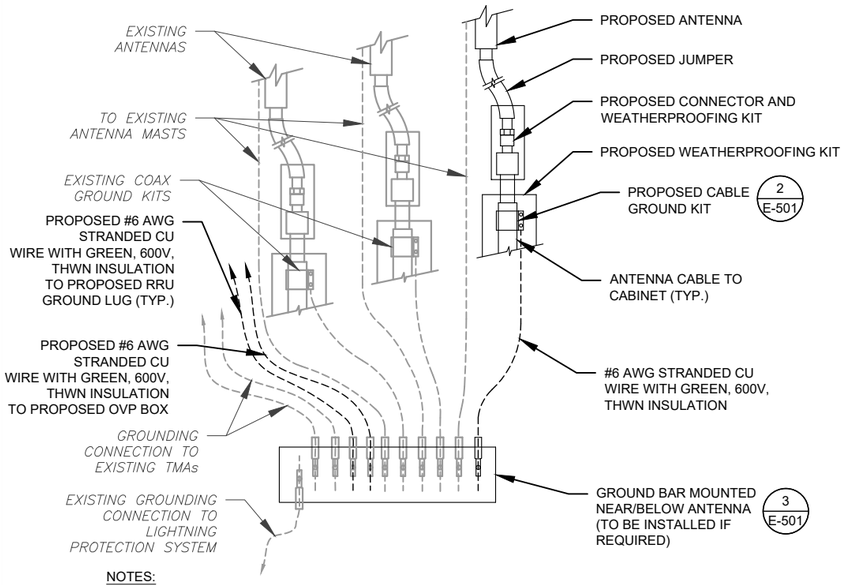
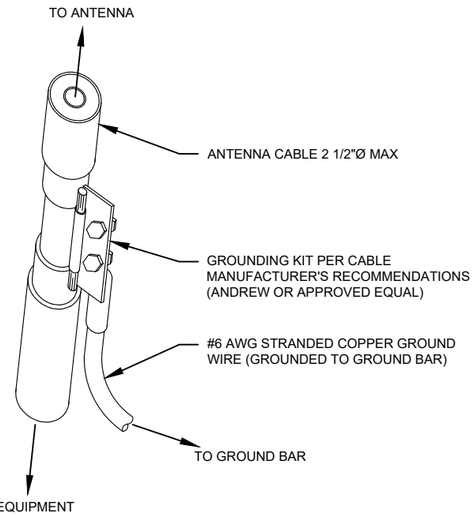


NOTES:

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.

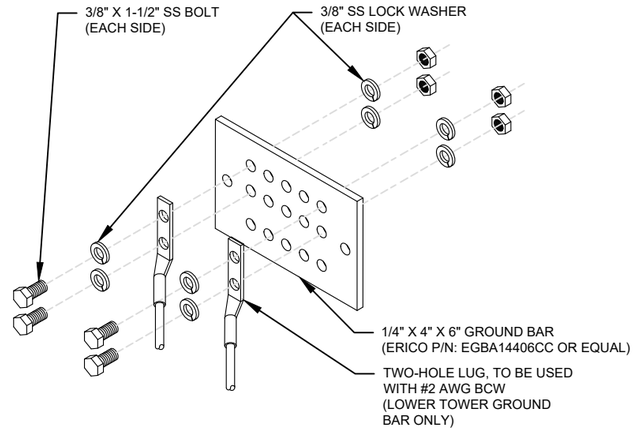


GROUND KIT NOTES:

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.

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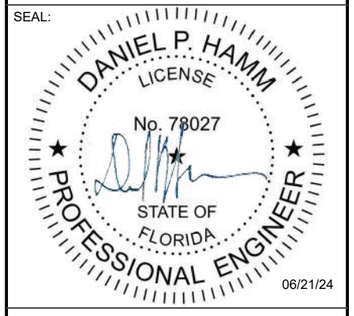


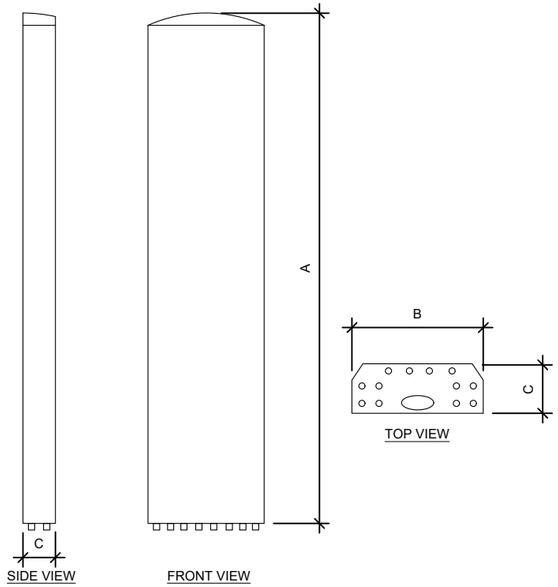
06/21/24

verizon

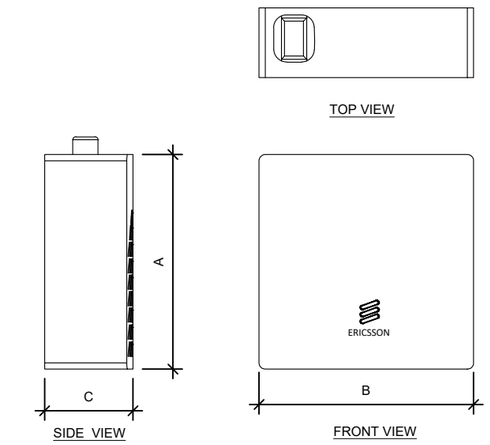
DATE DRAWN:	06/21/24
ATC JOB NO:	14857598
CUSTOMER NAME:	PHILLIPS LAKE CITY
CUSTOMER ID:	131313

GROUNDING DETAILS

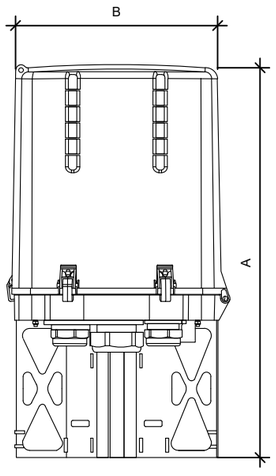
SHEET NUMBER:	REVISION:
E-501	0

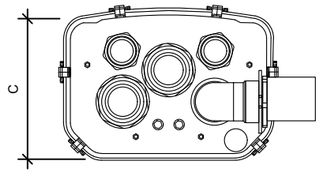


ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR 6419 B77D	30.0"	15.7"	6.7"	70.0
MX06FHG865-HG	95.9"	12.2"	7.5"	51.0



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RRUS 4490	20.6"	15.7"	7.0"	68.4
RRUS 4890	20.6"	15.7"	7.2"	69.5





OVP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
RXXDC-3315-PF-48	19.2"	15.7"	10.3"	32.0

- EQUIPMENT SPECIFICATIONS

SCALE: NOT TO SCALE

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SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: -

SOME LIKE IT HOT

Deka®

fahrenheit®

HT200ET

- **Helios™ Additive reduces float current up to 75% enhancing high temperature life**
- **THT™ Plastic specifically formulated heat resistant plastic case and cover optimizes compression**
- **Microcat® Catalyst lowers float current, mitigates thermal buildup and cell dryout**
- **Exclusive IPF® Technology optimizes power capacity, cell consistency, and long-term reliability**
- **TempX™ Alloy inhibits corrosion under the highest temperature extremes**
- Advanced AGM technology for superior power
- Puncture resistant micro-porous glass mat separators extend life
- Front access design for easy installation and maintenance
- Reinforced case resists bulging and meets safety requirements (UL 94 V-0)
- Case & cover heat sealed and 100% tested to prevent leaks
- Epoxy-sealed posts eliminate leaks
- Flame arresting, low pressure, self-sealing valves are 100% factory tested
- Computer-aided design and manufacturing control processes and standards to ensure quality products
- All batteries meet or exceed IEEE recommended practices
- Battery design and construction meet UL recognition requirements

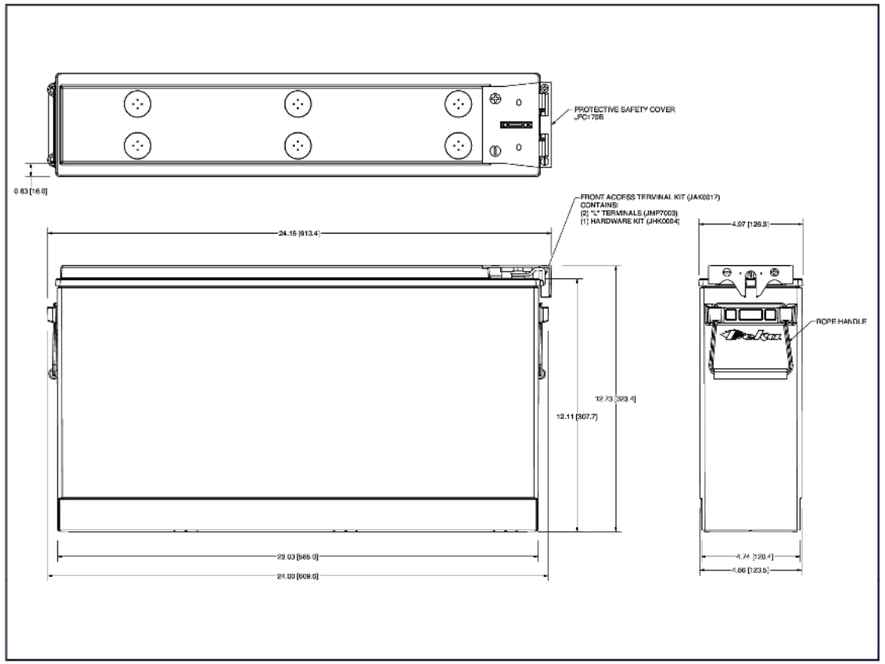
SPECIFICATIONS

Nominal Voltage:	12-Volts	**Catalyst:**	Microcat®
Rating:	190 Ampere-Hours @ 8 hr. rate to 1.75 V.P.C.	**Safety Vent:**	Low positive pressure, self-sealing w/ flame arrestor
Positive Plate:	>98% Pure lead with tin-calcium alloy	**Float Voltage:**	2.25 V.P.C. ± 0.01 V.P.C. @ 77°F (25°C) Range: (13.44V to 13.56V per battery)
Negative Plate:	Pure lead, calcium alloy		
Post Seal:	Epoxy-sealed	**Design life:**	12 years in float applications @ 77°F (25°C)
Terminal:	Front access, 1/4" – 20 threaded insert	**Dimensions:**	Length - 24.15" (613.4 mm)
Case/Cover:	Flame-retardant, THT™ – UL 94 V-0/>39% L.O.I.		Width - 4.97" (126.3 mm)
			Height - 12.74" (323.5 mm)
		Weight:	151 lbs. (68.5 kg)

DISCHARGE RATE IN AMPS @ 77°F (25°C)†

Volts per Cell (V.P.C.)	1 HR.	2 HR.	3 HR.	4 HR.	5 HR.	8 HR.	12 HR.	20 HR.	24 HR.
1.75	144	82.0	57.3	44.4	36.4	23.8	16.3	10.1	8.4
1.80	136	79.1	55.4	43.1	35.4	23.2	16.0	9.9	8.3
1.85	124	73.1	51.9	40.6	33.5	22.1	15.2	9.4	7.9
1.88	113	68.0	48.7	38.3	31.7	21.0	14.5	9.0	7.6
1.90	105	63.9	46.2	36.4	30.1	20.0	13.9	8.6	7.2

†Subject to change without notice.



INSTALLATION AND OPERATING INSTRUCTIONS
http://www.eastpennmanufacturing.com/wp-content/uploads/Fahrenheit-IO-Manual-2100.pdf

PROPOSITION 65 WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. **WASH HANDS AFTER HANDLING.**

EASTPENN

www.dekabatteries.com

QUALITY SYSTEM CERTIFIED ISO 9001 IATF 16949 ENVIRONMENTAL SYSTEM CERTIFIED ISO 14001

UL Recognized Component

East Penn Manufacturing Co. Lyon Station, PA 19536-0147 Phone: 610-682-3263 Fax: 610-682-0891 e-mail: reservepowersales@dekabatteries.com

E.P.M. Form No. 2201 2/20

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1 PROPOSED HT200ET BATTERY DETAILS
SCALE: N.T.S.

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

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-602	-

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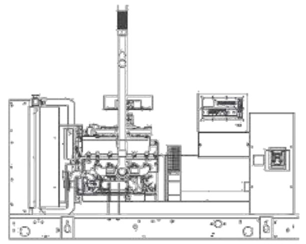
SG050 | 6.8L | 50 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

STANDBY POWER RATING
50 kW, 63 kVA, 60 Hz

PRIME POWER RATING*
45 kW, 56 kVA, 60 Hz



*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the U.S. or its Territories.

Image used for illustration purposes only

CODES AND STANDARDS
Generac products are designed to the following standards:

- UL2200, UL508, UL142, UL498
- NFPA70, 99, 110, 37
- NEC700, 701, 702, 708
- ISO9001, 8528, 3046, 7637, Pluses #2b, 4
- 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 led the industry with 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's 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 application under adverse conditions.

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

SG050 | 6.8L | 50 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM
General
- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Factory Filled Oil & Coolant
- Radiator Duct Adapter (open set only)
- Critical Exhaust Silencer (enclosed only)

Fuel System
- Flexible fuel lines NPT Connection
- Primary and secondary fuel shutoff

Cooling System
- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- 50/50 Ethylene glycol antifreeze
- Radiator drain extension

Engine Electrical System
- Battery charging alternator
- Battery cables
- Battery tray
- Rubber-booted engine electrical connectors
- Solenoid activated starter motor

ALTERNATOR SYSTEM
- UL2200 Genprotect™
- Class H insulation material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearings
- Amortisseur winding
- Full load capacity alternator

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 Warranty (Prime rated units)
- Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (IF SELECTED)
- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material (L1 & L2)
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™ - Textured polyester powder coat

CONTROL SYSTEM

Control Panel
- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- 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
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms
- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

SG050 | 6.8L | 50 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM
General
- O Engine Block Heater
- O Oil Heater
- O Air Filter Restriction Indicator
- O Stone Guard (Open Set Only)
- O Critical Exhaust Silencer (Open Set Only / Standard on Ultra Low Emissions Option)

Fuel Electrical System
- O 10A & 2.5A UL battery charger
- O Battery Warmer

ALTERNATOR SYSTEM
- O Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical Coating
- O Permanent Magnet Excitation

CIRCUIT BREAKER
- O Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breaker

GENERATOR SET
- O Gen-Link Communications Software (English Only)
- O Extended Factory Testing (3 Phase Only)
- O IBC Seismic Certification
- O 8 Position Load Center
- O 2 Year Extended Warranty
- O 5 Year Warranty
- O 5 Year Extended Warranty

ENCLOSURE
- O Standard Enclosure
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Steel Enclosure
- O Aluminum Enclosure
- O 150 MPH Wind Kit
- O 12 VDC Enclosure Lighting Kit
- O 120 VAC Enclosure Lighting Kit
- O AC/DC Enclosure Lighting Kit
- O Door Alarm Switch

CONTROL SYSTEM
- O 21-Light Remote Annunciator
- O Remote Relay Board (8 or 16)
- O Oil Temperature Sender with Indication Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication - Bridge
- O Remote Communication - Ethernet
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions

ENGINEERED OPTIONS

ENGINE SYSTEM
- O Fluid containment Pans
- O Coolant heater ball valves

GENERATOR SET
- O Special Testing
- O Battery Box

ALTERNATOR SYSTEM
- O 3rd Breaker Systems

ENCLOSURE
- O Motorized Dampers
- O Enclosure Ambient Heaters

CONTROL SYSTEM
- O Spare inputs (x4) / outputs (x4) - H Panel Only
- O Battery Disconnect Switch

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

SG050 | 6.8L | 50 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	10
Type	V
Displacement - L (cu in)	6.8L (414.88)
Bore - mm (in)	90.17 (3.55)
Stroke - mm (in)	105.992 (4.17)
Compression Ratio	9.0:1
Intake Air Method	Naturally Aspirated
Number of Main Bearings	7
Connecting Rods	Forged
Cylinder Head	Aluminum
Cylinder Liners	No
Ignition	High Energy
Piston Type	Aluminum Alloy
Crankshaft Type	Steel
Lifter Type	Overhead Cam
Intake Valve Material	Steel Alloy
Exhaust Valve Material	Steel Alloy
Hardened Valve Seats	Yes

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-flow spin-on cartridge
Crankcase Capacity - L (qts)	5.7 (6)

Cooling System

Cooling System Type	Pressurized Closed Recovery
Water Pump Flow - gal/min (l/min)	38 (144)
Fan Type	Pusher
Fan Speed (rpm)	2300
Fan Diameter mm (in)	558 (22)
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120 V

Fuel System

Fuel Type	Natural Gas, Propane Vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure (Standard)	11" - 14" H_2O
Operating Fuel Pressure (Optional)	7" - 14" H_2O

Engine Electrical System

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

ALTERNATOR SPECIFICATIONS

Standard Model	390mm
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50
Standard Excitation	Brushless
Bearings	Sealed Ball
Coupling	Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SG050 | 6.8L | 50 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

		Natural Gas	Propane Vapor
Single-Phase 120/240 VAC @1.0pf	50 kW	Amps: 208	Amps: 208
Three-Phase 120/208 VAC @0.8pf	50 kW	Amps: 173	Amps: 173
Three-Phase 120/240 VAC @0.8pf	50 kW	Amps: 150	Amps: 150
Three-Phase 277/480 VAC @0.8pf	50 kW	Amps: 75	Amps: 75
Three-Phase 347/600 VAC @0.8pf	50 kW	Amps: 60	Amps: 60

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

		480 VAC						208/240 VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	50	34	52	69	86	103	120	26	39	52	65	77	90
Upsize 1	60	42	63	83	104	125	146	32	47	62	78	94	110
Upsize 2	70	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 3	100	79	118	157	197	236	275	59	89	118	148	177	206
Upsize 4*	130	116	174	232	290	348	406	87	131	174	218	261	305

*Brushless excitation only

FUEL CONSUMPTION RATES*

Natural Gas - ft^3/hr (m^3/hr)

Percent Load	Standby
25%	282 (7.99)
50%	483 (13.68)
75%	652 (18.46)
100%	805 (22.80)

Propane Vapor - ft^3/hr (m^3/hr)

Percent Load	Standby
25%	106.6 (3.02)
50%	183 (5.18)
75%	247.1 (7.00)
100%	305.0 (8.64)

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

COOLING

		Standby
Air Flow (inlet air combustion and radiator)	ft^3/min (m^3/min)	5780 (163.1)
Coolant Flow per Minute	gal/min (l/min)	38 (144)
Coolant System Capacity	gal (l)	6.3 (23.9)
Heat Rejection to Coolant	BTU/hr	212,800
Max. Operating Air Temp on Radiator	°F (°C)	122 (50)
Max. Operating Ambient Temperature (before derate)	°F (°C)	104 (40)
Maximum Radiator Backpressure	in H_2O	0.5

COMBUSTION AIR REQUIREMENT

	Standby
Flow at Rated Power cfm (m^3/min)	160 (4.5)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	80
Piston Speed	ft/min	1251
BMEP	psi	85

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

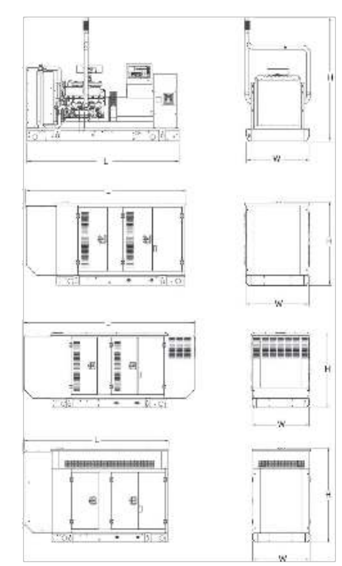
EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m^3/min)	455 (12.88)
Max. Backpressure (Post Turbo)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output - post silencer)	°F (°C)	1000 (537.8)
Exhaust Outlet Size (Open Set)	mm (in)	63.5 (2.5)

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

SG050 | 6.8L | 50 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS



OPEN SET (Includes Exhaust Flex)

L x W x H in (mm)	92.9 (2360) x 40 (1015.9) x 75.4 (1914.1)
Weight lbs (kg)	1929 (875)

STANDARD ENCLOSURE

L x W x H in (mm)	111.5 (2830.7) x 40.5 (1027.8) x 55.3 (1405.7)
Weight lbs (kg)	Steel: 2370 (1075) Aluminum: 2074.5 (941)

LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H in (mm)	129.4 (3287.2) x 40.5 (1027.8) x 55.3 (1405.7)
Weight lbs (kg)	Steel: 2590 (1175) Aluminum: 2147 (974)

LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H in (mm)	111.8 (2839.7) x 40.5 (1027.8) x 67.8 (1721.5)
Weight lbs (kg)	Steel: 2811 (1275) Aluminum: 2220 (1007)

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53187
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Part No. 0K6785
Rev. D 07/27/15

1 PROPOSED 50KW LP GENERATOR DETAILS
SCALE: N.T.S.

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SUPPLEMENTAL

SHEET NUMBER: R-603

REVISION: -

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AA-CL-T-3S PTLC Series

ATS Power Transfer Load Center with an Integrated Telco Cabinet

The AA-CL-T-3S is an outdoor PTLC that features separate AC and Telco chambers. The AC chamber includes a 42k AIC main disconnect breaker for normal (utility) power. When the normal power source is not available, an ASCO® Series 300 automatic transfer switch connects to a permanent or temporary alternative power source. Mechanically interlocked 10 kAIC main disconnect breakers allow manual transfer between the permanent and temporary sources.

The AA-CL-T-3S Series also features a Square D load center; Strikesorb® surge suppression; a utility voltage sensing relay; a Cam-Lok style engine generator connector panel, mounted on the left or right; and a ground fault circuit interrupter (GFCI) circuit breaker wired to a duplex outlet in the Telco chamber.

A double throw, single solenoid transfer mechanism and microprocessor controls in the ASCO Series 300 automatic transfer switch adjust to input from the primary power source or generator, depending on site conditions. The robust ASCO switch is UL 1008 Listed and complies with NFPA 110 for emergency and standby power systems.

To protect connected equipment, the AA-CL-3S PTLC safeguards critical loads from transients and load transfer spikes using Strikesorb® surge suppression. Strikesorb incorporates state of the art technological developments that provide superior protection characteristics, which remain unchanged throughout its long service life. It is designed to withstand repeated surges providing cost-effective and maintenance-free operation in demanding environments. Critical loads are never left unprotected, as Strikesorb will operate to a short circuit and trip the main disconnect breaker in the event of a long duration, potentially catastrophic overvoltage event.

A 42-position Square D load center provides the flexibility to distribute 200 amp, 240/120 single-phase or 208/120 three-phase power to a variety of site equipment.

The Telco chamber has a plywood backboard with three knockouts for cable entry centered above the backboard. Included in the Telco chamber is a 20-amp duplex receptacle fed from a GFCI circuit breaker (located in the upper, AC chamber.)

For more information about the AA-CL-T-3S Series panels, or other PTLC models, e-mail Intersect today at solutions@intersectinc.com.

Intersect™, Inc.

Quality products. Premium customer care. Integrated solutions.

Series Number	Product Configuration
AA1220042-3R-CL-T-L	240/120; 1Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam Lok-style engine generator connector
AA1220042-3R-CL-T-R	240/120; 1Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam Lok-style engine generator connector
AA3320042-3R-CL-T-L	208/120; 3Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam-Lok style engine generator connector
AA3320042-3R-CL-T-R	208/120; 3Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam-Lok style engine generator connector
Option Number	**Description**
Opt 11BG	Programmable Engine Exerciser – seven-day electronic time switch provides automatic weekly or bi-weekly testing of the engine generator set either with or without load and offers relay contacts for remote status monitoring.

Other service voltages and amperages are available. Custom panels can be designed to your performance specifications. Contact Intersect: solutions@intersectinc.com

General Data

Overall enclosure weight and dimensions
Varies by service voltage, amperage, and enclosure type. Request specific panel drawings for this product information.
AC cabinet dimensions (H x W x D)
53 x 29 x 12 inches
Telco cabinet dimensions (H x W x D)
20 x 29 x 12 inches
Enclosure type
- NEMA 3R
- 0.008 aluminum construction

Service voltage
- 200 amp
- 240/120
- 208/120

Voltage sensing relay
- Senses "utility" or normal source voltage
- Installed on "line" side of main disconnect breaker

UL certification
- UL 67 listed panel
- Service entrance rated

Cam-Lok Style Panel

Model
Micrin or Intersect ICL
Color coded Cam-Lok Connectors
- Green Ground
- White – Neutral
- Black – Line 1
- Red – Line 2
- Blue – Line 3

UL Certification
UL 1008 listed

Load Center

Load center type
Square D
Circuit breaker positions
42 circuits
Circuit breaker type
Square D bolt-on or plug-in branch devices

Telco Cabinet

Duplex receptacle
- 15 amp GFCI circuit breaker
- 120 V

Terminal bar
- Insulated
- Ground connection

AC service connection
Two, 2-inch nonmetallic conduits

Manual Transfer Switch

Type
- Mechanically interlocked breakers for permanent or alternative power source
- Enables manual transfer between permanent and temporary power source (10 kA at 240 VAC)

Square D input breaker
- 200 amps

Source circuit breaker
Permanent & alternative emergency power
Withstand current rating (WCR)
10,000 amps

Automatic Transfer Switch

Type
ASCO – 300L Series
Power transfer mechanism
- Single solenoid operation
- Microprocessor controller
- Double throw operation

Engine starting contact
Connect signal wires to auto-start engine generator set
Source circuit breaker
- Normal (utility power)
- 200 amp, 60 Hz

Engine exerciser
- Built-in, 20-minute exerciser
- See Option 11BG in table for further details

Withstand current rating (WCR)
42,000 amps
UL certification & other safety compliances
- UL 1008, standard for transfer switch equipment
- CSA standard C22.2 for automatic transfer switches
- NFPA 110 for emergency and standby power systems
- NEC Articles 700, 701, and 702

Suppression Technology

Technology type
Strikesorb 40-A[1], 120 V modules

Surge Protection Levels
Response time
<1 ns
Maximum surge current
- Surge current, imax (8/20) NEMA LS-1: 140 kA
- Lightning current, limp (10/350) IEC 61643-1: 7.5 kA

Let through voltage level
For surge current 10 kA (8/20) IEEE C62.41-1: 435 V - actual surge current through Strikesorb
Long duration surge performance
500 A square waveform 2 ms IEEE C62.11: 250 hits
Voltage protection rating (VPR)
600 V per UL 1449 3rd edition

Short Circuit Current Rating
- Tested for safe installation behind a 4000 A Class L time delay fuse at available fault current 200 kA
- 3-cycle testing at 85 kA

Standards Compliance
- IEEE C62.41, IEEE C62,45, IEEE C62.11, NEMA LS-1
- IEC 61643-1 ed 2:2005, EN 61642-A11:2005, IEC 61643-12

Intersect™, Inc.

All specifications subject to change without notice.
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Strikesorb® is a registered trademark of Raycap Corporation.
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P.O. Box 753 Liberty Lake WA 99019 USA
Phone: 509.255.9570 – Fax: 509.255.6034
www.intersectinc.com

1 PROPOSED ILC DETAILS
SCALE: N.T.S.

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SUPPLEMENTAL

SHEET NUMBER: R-604

REVISION: -

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UNDERGROUND/ABOVEGROUND TANKS (AG/UG)

WHY CHOOSE QUALITY STEEL UNDERGROUND TANKS?

- 120 - 1,990 WG CAPACITY
- General Specifications
  - Conforms to the latest edition of ASME Rules for Construction of Pressure Vessels, Section VIII, Division 1.
  - Complies with NFPA 58.
  - Rated at 250 psig from -20° F to 125° F. All vessels registered with National Board.
  - Two service options available:
    - Option 1: Ready-to-bury underground option, coated with either powder coated phenolic epoxy finish or liquid applied epoxy primer coat followed by urethane top coat, supplied with composite AG/UG dome
    - Option 2: Aboveground option, coated with either powder coated TGIC polyester finish or liquid applied epoxy primer coat followed by urethane top coat, supplied with steel AG/UG dome
- Family & employee owned
- Financing and leasing available
- Customized delivery programs available

HOW DO I FIND MY SALES REP?

Visit our website, **www.propanetank.com** to view a list of our reps. Once on our site you'll be able to choose the Commercial options and from there you'll be taken to a list of US states where you can choose your location and view the contact information for your local sales rep. If you don't see your sales rep. please give us a call at 800-345-2495.

Our manufacturing locations are strategically located to help serve your tank needs.

OHIO LOCATION
721 Graham Drive
Fremont, OH 43420
419-334-2664

UTAH LOCATION
5601 Axel Park Rd.
West Jordan, UT 84081
801-280-1133

HOME OFFICE
2914 U.S. 61
Cleveland, MS 38732
800-345-2495

QUALITY STEEL
Because Quality Steel Means Quality Tanks
★ Thank You for Supporting USA Manufacturers ★

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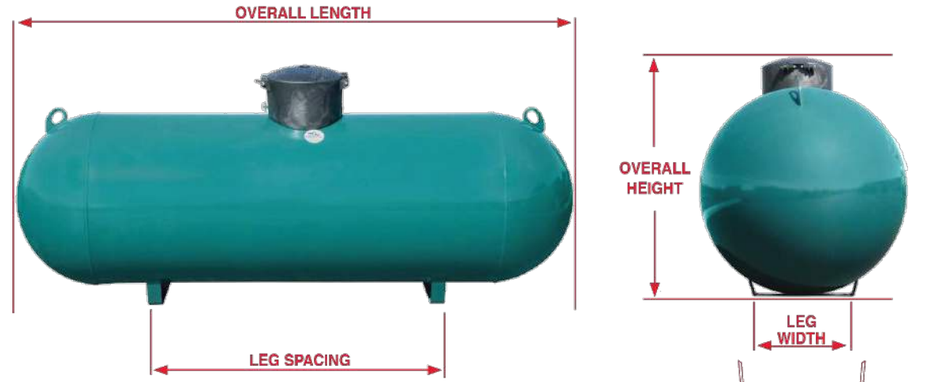
UNDERGROUND/ABOVEGROUND TANKS (AG/UG)

Consult our dimension and specification chart below to find the tank that best fits your needs.
Visit our website at www.propanetank.com for more information.



APPROXIMATE ABOVEGROUND/UNDEGROUND (AG/UG) VESSEL DIMENSIONS AND SPECIFICATIONS

WATER CAPACITY	DIAMETER (OD)	HEAD TYPE	OVERALL LENGTH	OVERALL HEIGHT	LEG* WIDTH	LEG** SPACING	WEIGHT (lbs.)	**QUANTITY	
								FULL LOAD	PER STACK
*120 wg.	24"	Ellip.	5'-8"	3'	1'-1 1/2"	2'-10 1/2" or 3'-11"	260	108 | 96	16 | 12
*250 wg.	30"	Hemi.	7'-10"	3'-8"	1'-5"	4'-11"	480	54	9
*320 wg.	30"	Hemi.	9'-7"	3'-8"	1'-5"	5'	620	45	9
500 wg.	37 1/2"	Hemi.	10'	4'-2"	1'-8"	5'	950	37 | 30	8 | 6
1000 wg.	41"	Hemi.	16'	4'-5"	1'-8"	10'-1"	1,800	17 | 15	6 | 5
1450 wg.	46 1/2"	Ellip.	17'-4"	4'-11"	1'-9"	11'-7"	2,650	12	4
1990 wg.	46 1/2"	Ellip.	23'-11"	4'-11"	1'-9"	16'	3,520	8	4

Dimensions and specifications shown are approximate. Individual vessels may vary

* Leg spacing +/- 2". Leg widths and spacing may vary based on mfg. location. Check with your salesperson for details. 120, 250, 320 wg. standard tanks - no holes in legs (one center hole on request). 500 and 1000 wg. standard tanks - 2 holes 16" on center. 1450 wg. and up as shown above.

** Full load and stack quantities vary by shipping location. Check with your salesperson for details.

QUALITY STEEL
Because Quality Steel Means Quality Tanks
★ Thank You for Supporting USA Manufacturers ★

HOME OFFICE
2914 U.S.61
Cleveland, MS 38732
800-345-2495

OHIO LOCATION
721 Graham Drive
Fremont, OH 43420
419-334-2664

UTAH LOCATION
5601 Axel Park Rd.
West Jordan, UT 84081
801-280-1133

Quality Steel 6/2017 S2

1 PROPOSED 500 GAL. LPG TANK DETAIL
SCALE: N.T.S.

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SUPPLEMENTAL

SHEET NUMBER: R-605

REVISION: -

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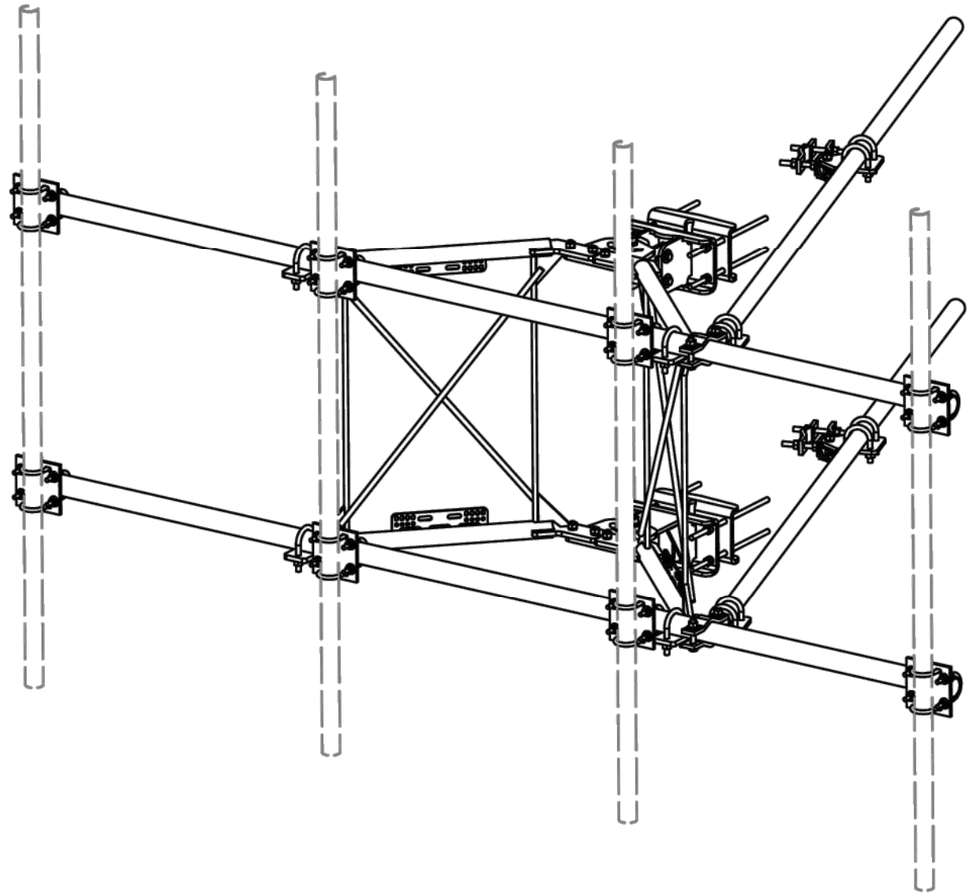

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	20.04	40.09
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
14	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
15	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)		1.57	12.54
20	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
21	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
22	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
23	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
24	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
25	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
26	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
27	4	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.08
28	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
29	25	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.76
30	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
31	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
32	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
33	16	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	9.56
34	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
35	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
36	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.58
					TOTAL WT. #	740.26

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017
B	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017
A	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017

REVISION HISTORY

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

PROPRIETARY NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

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

CPD NO.:

DRAWN BY: CEK 1/25/2017

ENG. APPROVAL:

CLASS: 81 SUB: 02

DRAWING USAGE: CUSTOMER

CHECKED BY: BMC 12/13/2017

PART NO.: VFA12-HD

DWG. NO.: VFA12-HD

PAGE 1 OF 5

SITE PRO 1 — A valmont COMPANY
Engineering Support Team: 1-888-753-7446
Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

1 PROPOSED SECTOR FRAME MOUNT DETAILS

SCALE: N.T.S.

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

SUPPLEMENTAL

SHEET NUMBER: R-606

REVISION: -

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Colliers Engineering & Design
5141 Virginia Way, Suite 420
Brentwood, TN 37027
615.686.2575
ashley.sustek@collierseng.com

New/Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R

SMART Tool Project #: 10234593
Colliers Engineering & Design Project #: 21941226

May 17, 2024

Site Information

Site ID:	*5000077708-VZW / PHILLIPS LAKE CITY*
Site Name:	*PHILLIPS LAKE CITY*
Carrier Name:	*Verizon Wireless*
Address:	*233 NW Ranch Court* *Lake City, Florida 32056* *Columbia County*
Latitude:	*30.225722°*
Longitude:	*-82.724833°*

Structure Information

Tower Type:	*300-Ft Guyed*
Mount Type:	*12.50-Ft Sector Frame*

FUZE ID # 16276469

Analysis Results

Sector Frame: **65.7% Pass w/ Mount Replacement* ((3) Site Pro 1 VFA12-HD)**

***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

Report Prepared By: David Anuka

GILBERTO MARTINEZ LICENSE No. 68342 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by Gilberto Martinez
Date: 2024.05.17 16:42:19 -05'00'

1 MOUNT ANALYSIS
SCALE: N.T.S.

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	15.1	6.7	24.2	15.8
0.5	23.7	12.2	36.6	25.2
1	31.6	17.2	48.4	34.0

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

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:	REVISION:
R-607	-

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