



MDG LOCATION ID:5000042014

SITE NAME:SPRADLEY

STRUCTURE TYPE:250' SELF-SUPPORT TOWER

MARKET:JACKSONVILLE

PROJECT TYPE:5G L-SUB6 - CARRIER ADD



Digitally signed by
Maria V Martin
Date:
2025.12.17
12:34:36
-05'00'

LOCATION SKETCH		CONTACT INFORMATION		SCOPE OF WORK		LIST OF DRAWINGS	
		<u>APPLICANT:</u> VERIZON WIRELESS 7701 E TELECOM PKWY TEMPLE TERRACE, FL 33637		<u>ARCHITECT/ ENGINEER:</u> CBVR/ MARIA V. MARTIN, PE 6505 N HIMES AVE TAMPA, FL 33614		<u>SITE GENERAL ARRANGEMENT PLANS</u> T-1 TITLE SHEET	
		<u>TOWER OWNER:</u> VB BTS III LLC 750 PARK OF COMMERCE DRIVE SUITE 200 BOCA RATON, FL 33487				<u>ARCHITECTURAL/ CIVIL PLANS</u> C-1 COMPOUND PLAN C-1.1 SITE PLAN C-2 EQUIPMENT AREA PLAN C-3 TOWER ELEVATION & ANTENNA MOUNT DETAILS C-4 EQUIPMENT DETAILS C-5 PROPOSED ANTENNA & CABLE SCHEDULE C-6 GENERATOR DETAILS C-7 GENERATOR PIPE DETAILS	
		<u>SITE INFORMATION</u> PARCEL ID #: JURISDICTION: COUNTY: LATITUDE: LONGITUDE: FAA OVERALL HEIGHT:		 26-2S-16-01753-001 COLUMBIA COUNTY COLUMBIA 30° 17' 34.01" NORTH (NAD 83) 82° 41' 35.87" WEST (NAD 83) 260'			
<u>SITE DIRECTIONS</u> <u>From I-10 & I-295 (Jacksonville):</u> 1. Head west on I-10 W (go 55.5 mi) 2. Take exit 301 for US-41 toward White City (go 0.1 mi) 3. Turn left onto US-41 N (signs for White Springs) (go 3.2 mi) 4. Turn right onto NW Scarborough Ln (go 0.6 mi) 5. NW Scarborough Ln turns left and becomes NW Edgar Terrace (go 0.5 mi) 6. Destination will be on the right				<u>EQUIPMENT PAD:</u> • REMOVE (1) ALL-IN-ONE CABINET • REMOVE (2X) HT200ET BATTERIES FROM THE BOTTOM OF THE AIO CABINET • REMOVE (1) 35KW LP GENERATOR • INSTALL CONSOLIDATED EQUIPMENT CABINET WITH (4) 75A RECTIFIERS. • INSTALL BBUS, ROUTER, SITEBOSS, UPCONVERTER, AND GPS EQUIPMENT IN NEW EQUIPMENT CABINET. • INSTALL (1) VRLA BATTERY CABINET • INSTALL (1) 50KW LP GENERATOR W/ NEW FUEL LINE • INSTALL (1) TANK ALARM CABLE IN (1IN CONDUIT) FROM THE EXISTING LP TANK UNDERGROUND TO THE NEW EQUIPMENT CABINET SITE BOSS. • INSTALL (2X) HT200ET BATTERIES @-48 • RETAIN (1) CHARLES CUBE FIBER CABINET • RETAIN (1) 200A ILC CABINET • RETAIN (2) OVP-12 (6627) • RETAIN (1) 500-GALLON LP TANK <u>TOWER RAD:</u> • REMOVE (3) 4449 RRUS • REMOVE (3) 8843 RRUS • INSTALL (3) AIR 3283 ANTENNAS. • INSTALL (3) AIR 6419 ANTENNAS • INSTALL (3) RRU 4490'S • RETAIN (2) COMMSCOPE NHH-45C-R2B ANTENNAS • RETAIN (4) COMMSCOPE NHH-65C-R2B ANTENNAS • RETAIN (2) OVP-6'S (3315). • RETAIN (2) 6/12 HYBRID CABLES.			
				<u>APPLICABLE CODES</u> - FLORIDA BUILDING CODE 2023 (8th EDITION) WIND DESIGN CRITERIA A. ASCE 7-22 ULTIMATE WIND SPEED = 118 MPH RISK CATEGORY = II EXPOSURE = C B. ANSI/ TIA-222-H STRUCTURE CLASS = II TOPOGRAPHIC CATEGORY = 1 - FLORIDA FIRE PREVENTION CODE - 2023 (8TH EDITION) - NATIONAL ELECTRIC CODE (2020) - CITY AND OR COUNTY ORDINANCES			
						<u>CONTRACTOR PMI REQUIREMENT</u> PMI LOCATION:	

PREPARED BY



TELECOM DESIGN GROUP

6505 N HIMES AVE
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(813) 353-0026
FL CA # 31014

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PROFESSIONAL SEAL



12/16/2025

PREPARED FOR



7701 E TELECOM PKWY
TEMPLE TERRACE, FL 33637

PROJECT INFORMATION

5000042014
SPRADLEY
529 NW EDGAR TERRACE
LAKE CITY, FL 32055

CBVR PROJECT #: VZW.301.25

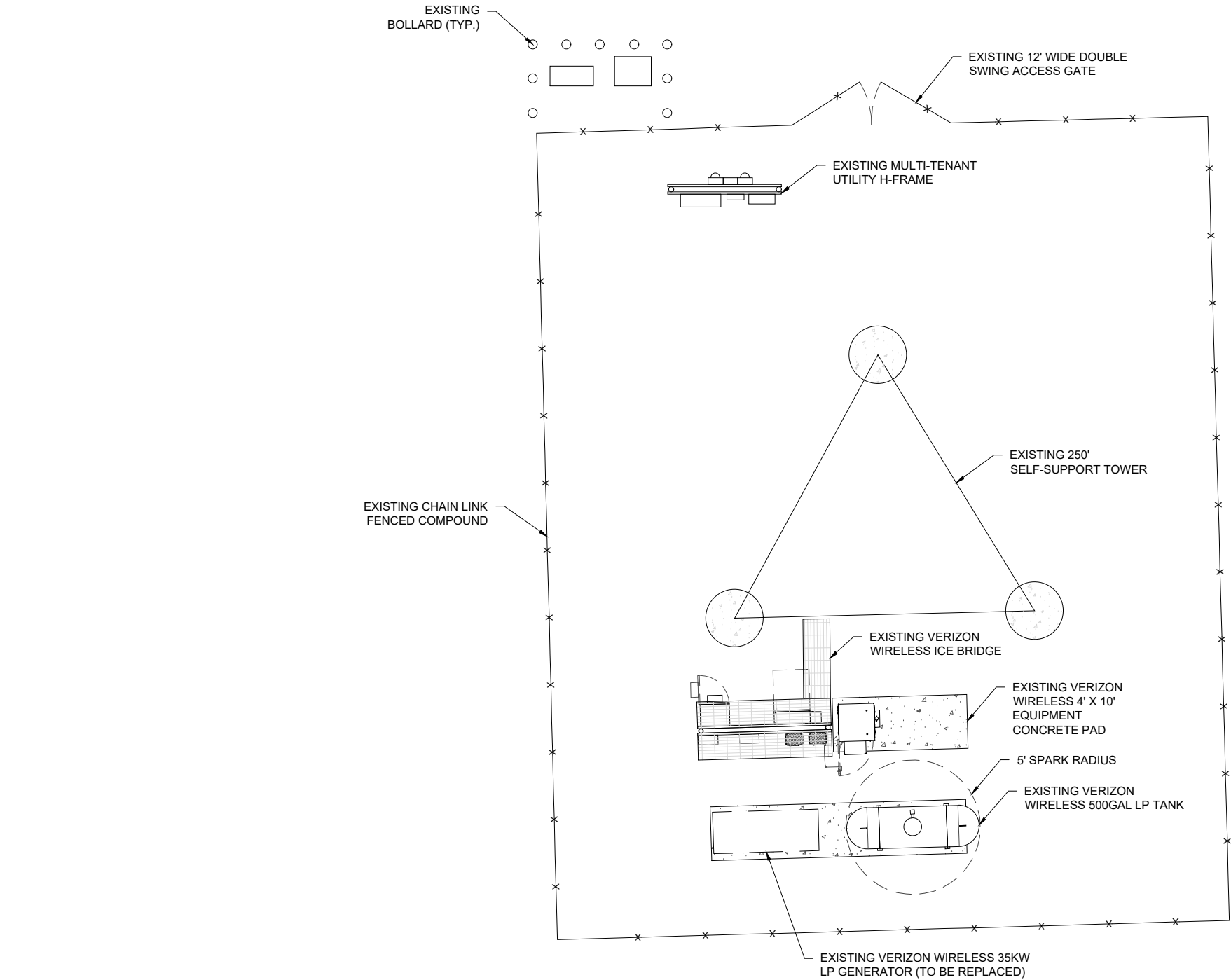
ISSUED DATES		
0	FOR PERMIT / CONSTRUCTION	12.16.25

SHEET NAME

TITLE SHEET

SHEET NUMBER

T-1

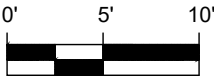


- NOTES:**
- ALL DRAWINGS HAVE BEEN PREPARED WITHOUT THE AID OF A SURVEY OR A TITLE
 - ALL DIMENSIONS, PROPERTY LINES, AND RIGHT OF WAYS ARE APPROXIMATE BASED UPON AVAILABLE ONLINE RESOURCES
 - CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION
 - ALL NEW WORK TO BE PERFORMED PER LATEST VERIZON WIRELESS STANDARDS & SPECIFICATIONS



COMPOUND PLAN

GRAPHIC SCALE



(SCALE IN FEET)
11x17 SCALE: 1"=10'

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PROFESSIONAL SEAL

MARIA VICTORIA MARTIN
LICENSE
No. 72397
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

12/16/2025

PREPARED FOR

verizon

7701 E TELECOM PKWY
TEMPLE TERRACE, FL 33637

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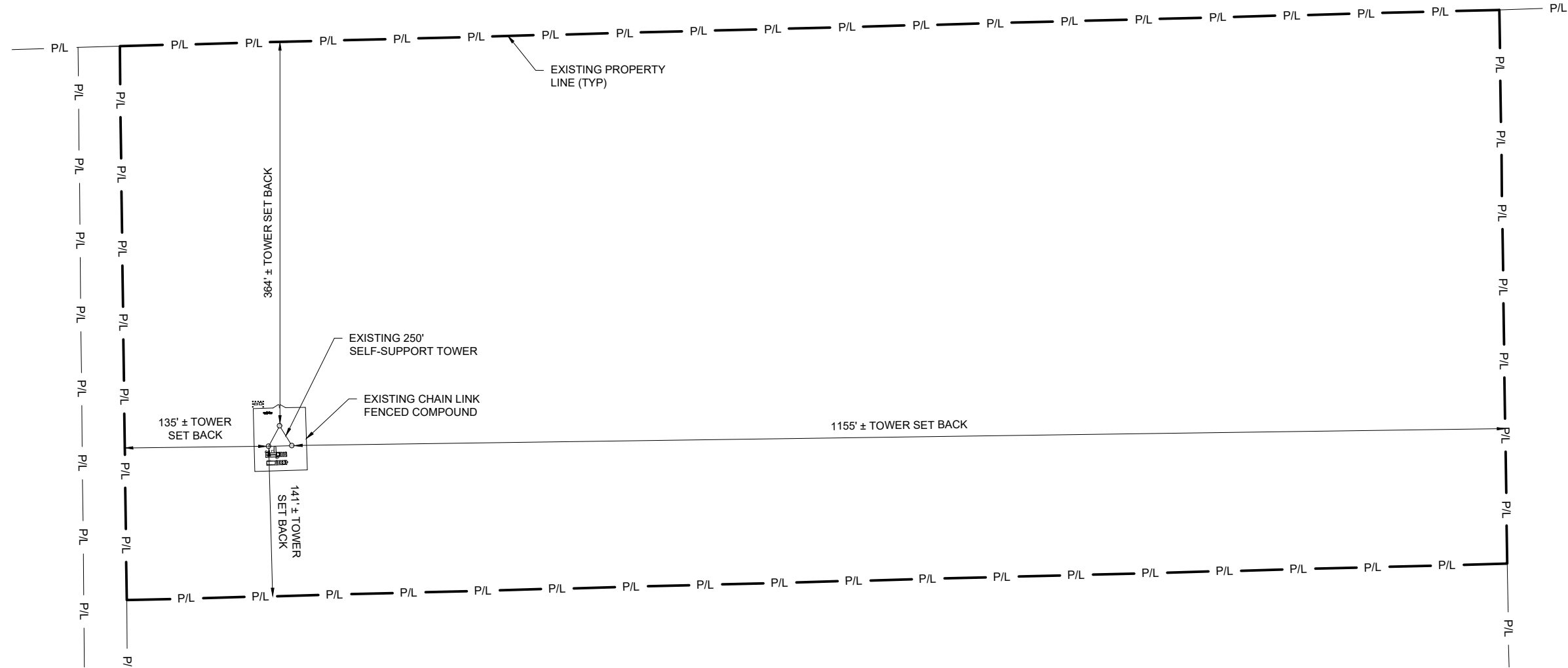
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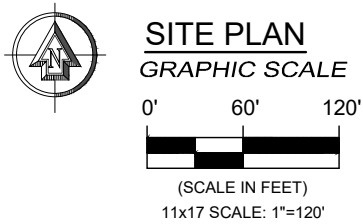
COMPOUND PLAN

SHEET NUMBER

C-1



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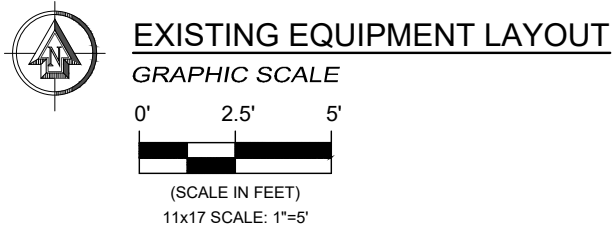
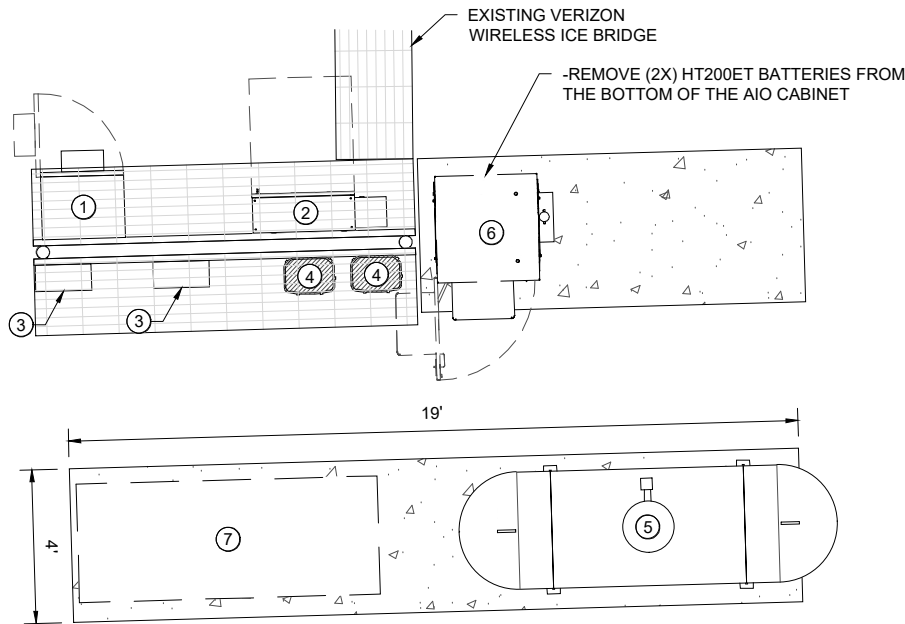
SHEET NAME

SITE PLAN

SHEET NUMBER

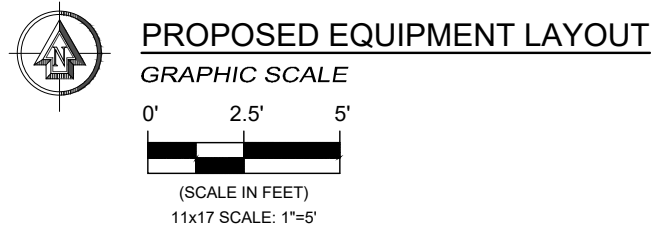
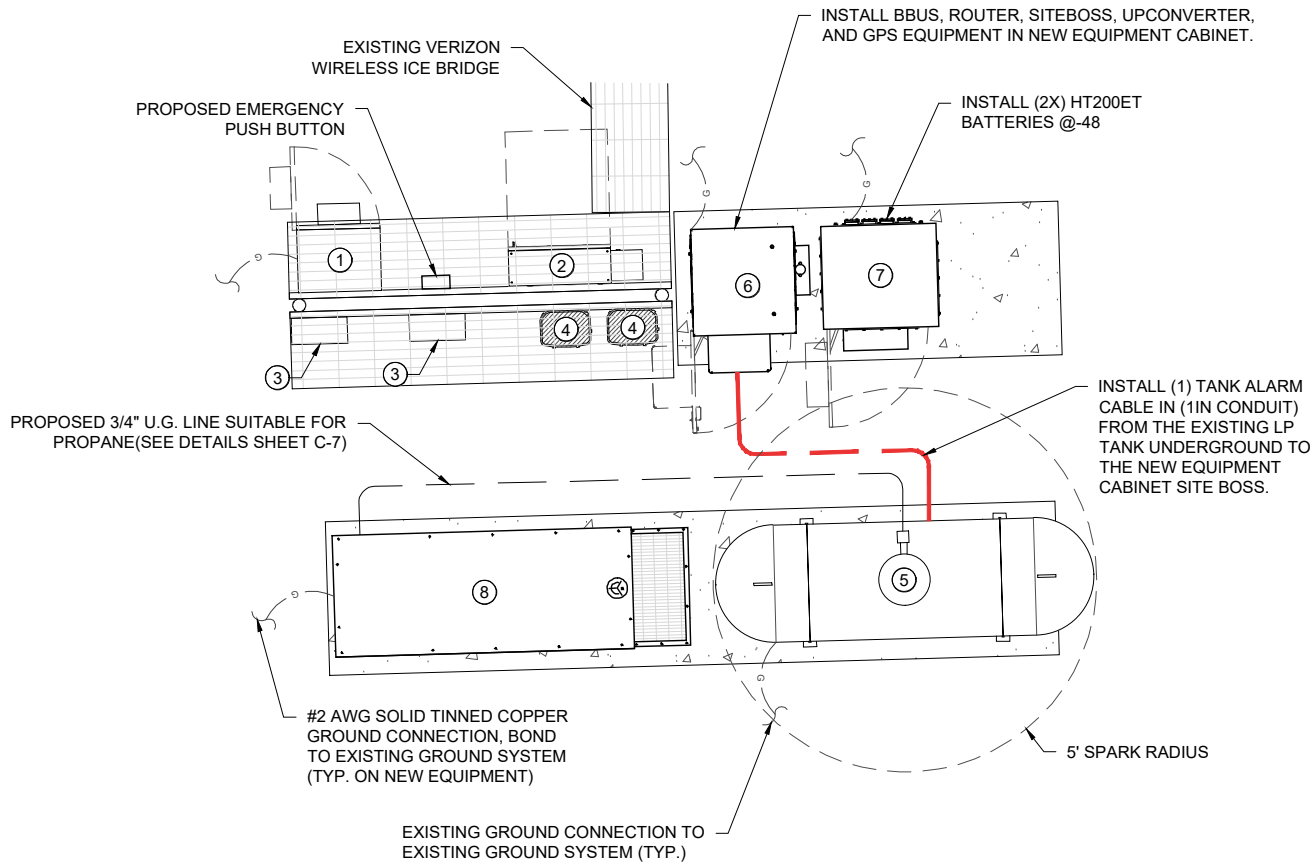
C-1.1

- LEGEND**
- ① DARK FIBER CABINET
 - ② 200A ILC
 - ③ JUNCTION BOX
 - ④ OVP-12
 - ⑤ 500GAL LP TANK
 - ⑥ ALL-IN-ONE CABINET (TO BE REMOVED)
 - ⑦ 35KW LP GENERATOR (TO BE REMOVED)



NOTE:
ALL EXISTING AND PROPOSED EQUIPMENT CONFIGURATIONS SHALL BE FIELD VERIFIED AND CONFIRMED BY GC WITH THE VERIZON WIRELESS CONSTRUCTION MANAGER.

- EMERGENCY PUSH BUTTON NOTE**
1. PROPOSED EMERGENCY STOP BUTTON MAINTAINED 50MM RED MUSHROOM PUSH BUTTON, EMERGENCY STOP ENGRAVED, BLACK BEZEL, WITH ONE N.C. CONTACT MODEL E22JLB2N88 BY EATON OR APPROVED EQUAL IN NEMA 3R HOUSING W/P600 CONTACT RATING DESIGNATION TO BREAK IGNITION POWER OF EMERGENCY GENERATOR (VERIFY CONTACT RATING AND EXACT WIRING WITH GEN.. MANUF.) SUPPLY AND INSTALL ENGRAVED PLAQUE STATING "VERIZON WIRELESS EMERGENCY STOP".
 2. THERE ARE NO BUILDING OPENINGS, AIR INTAKES, DOORS, WINDOW WITHIN 10' OF THE GENERATOR EXHAUST



- LEGEND**
- ① DARK FIBER CABINET
 - ② 200A ILC
 - ③ JUNCTION BOX
 - ④ OVP-12
 - ⑤ 500GAL LP TANK
 - ⑥ PROPOSED CONSOLIDATED EQUIPMENT CABINET WITH (4) 75A RECTIFIERS.
 - ⑦ PROPOSED VRLA BATTERY CABINET
 - ⑧ PROPOSED 50KW LP GENERATOR

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SHEET NAME

EQUIPMENT AREA PLAN

SHEET NUMBER

C-2

VERIZON ANTENNAS TIP
EL. 249' AGL
RAD CENTER OF EXISTING & PROPOSED
VERIZON WIRELESS ANTENNAS
EL. 245' AGL

TIP OF 10' LIGHTNING ROD
EL. 260' AGL
TOP OF TOWER
EL. 250' AGL

EXISTING 250'
SELF-SUPPORT TOWER

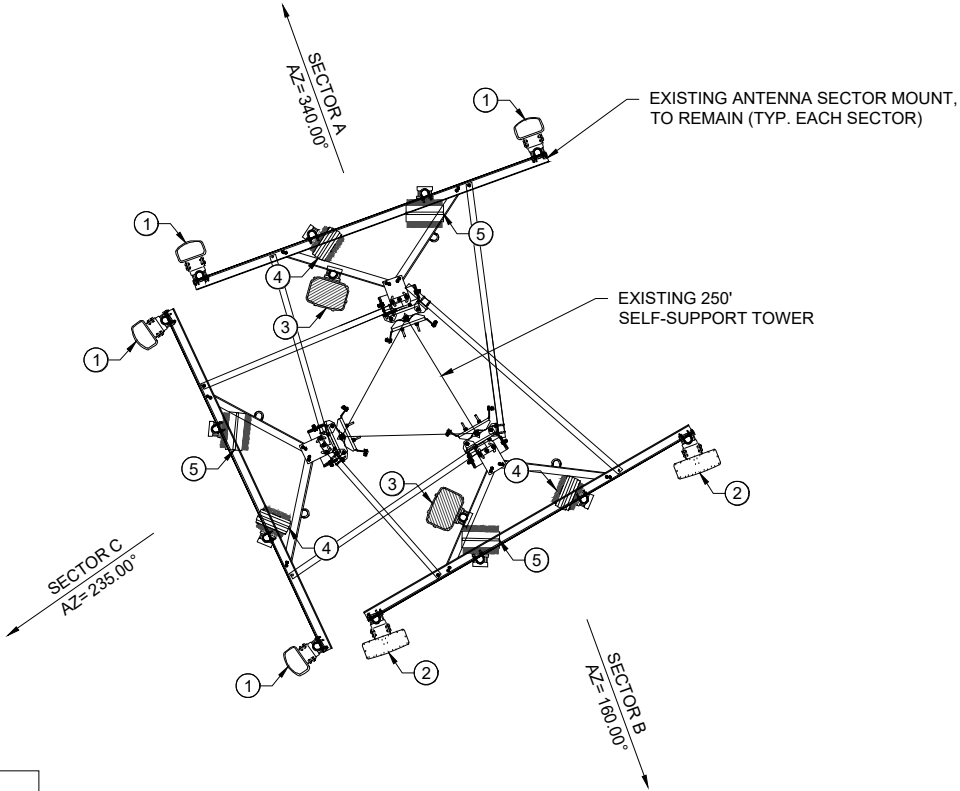
EXISTING VERIZON WIRELESS (2) 6/12 HYBRID
CABLES ROUTED ON TOWER. ALL TO REMAIN.

EXISTING VERIZON
WIRELESS ICE BRIDGE

EXISTING VERIZON WIRELESS 4' X 10'
EQUIPMENT CONCRETE PAD

TOWER ELEVATION
NOT TO SCALE

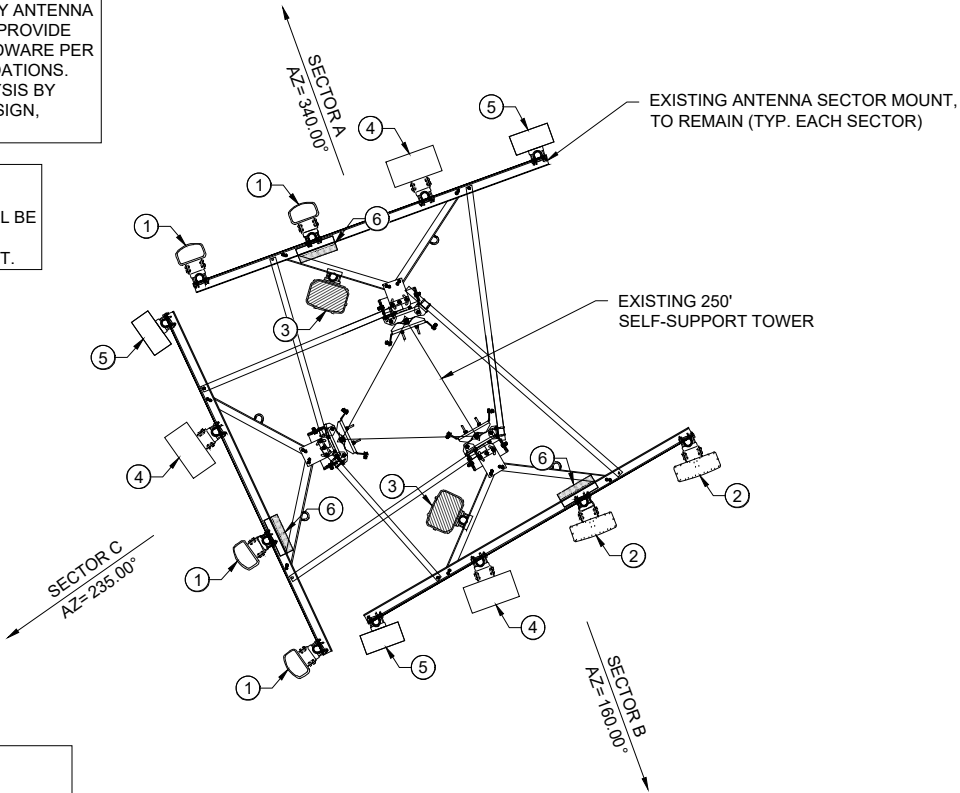
- NOTES:**
- CONTRACTOR TO FIELD VERIFY ANTENNA MOUNT CONFIGURATION AND PROVIDE MOUNTS OR ADDITIONAL HARDWARE IF REQUIRED TO SUPPORT PROPOSED EQUIPMENT.
 - ALL EQUIPMENT AND MOUNTING HARDWARE SHALL CONFORM TO DESIGN REQUIREMENTS PER FLORIDA BUILDING CODE (8TH EDITION, 2023), ANSI/ TIA-222-H AND ASCE 7-22 STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS; ULTIMATE WIND SPEED 118 MPH, 3 SECOND GUST.
 - AZIMUTH INFO TAKEN FROM VERIZON WIRELESS RF SITE DESIGN DATA. TOWER AND ANTENNAS HEIGHTS TAKEN FROM RECENT TOWER SURVEY DATA.
 - REFERENCE STRUCTURAL ANALYSIS REPORT BY AIROSMITH ENGINEERING ; DATED 11/06/2025.



- LEGEND**
- ① NHH-65C-R2B ANTENNA
 - ② NHH-45C-R2B ANTENNA
 - ③ OVP-6
 - ④ RRU 4449 (TO BE REMOVED)
 - ⑤ RRU 8843 (TO BE REMOVED)

NOTE:
CONTRACTOR TO FIELD VERIFY ANTENNA MOUNT CONFIGURATION AND PROVIDE MOUNTS OR ADDITIONAL HARDWARE PER MANUFACTURER RECOMMENDATIONS. REFERENCE TO MOUNT ANALYSIS BY COLLIER ENGINEERING & DESIGN, DATED 10/16/2025.

NOTE:
ON EACH SECTOR, CURRENT ANTENNAS ON POSITION 4 WILL BE RELOCATED IN POSITION 2, AS SHOWN ON PROPOSED LAYOUT.



- LEGEND**
- ① NHH-65C-R2B ANTENNA
 - ② NHH-45C-R2B ANTENNA
 - ③ OVP-6
 - ④ PROPOSED AIR 3283 ANTENNA
 - ⑤ PROPOSED AIR 6419 ANTENNA
 - ⑥ PROPOSED RRU 4490

PROPOSED ANTENNA MOUNT DETAIL
NOT TO SCALE

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12/16/2025

PREPARED FOR

verizon

7701 E TELECOM PKWY
TEMPLE TERRACE, FL 33637

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5000042014
SPRADLEY
529 NW EDGAR TERRACE
LAKE CITY, FL 32055

CBVR PROJECT #: VZW.301.25

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SHEET NAME

**TOWER ELEVATION &
ANTENNA MOUNT DETAILS**

SHEET NUMBER

C-3

AIR3283 B25+B66 dual band

- 32 TX/RX B25+B66 dual band
- LTE and NR support
- 320 W total shared RF output power (max 240W/Band)
- Full band IBW, TCBW 100 MHz shared between bands
 - Max 60 MHz CBW/Band
- Max 3 carriers/Band
- 8 column x 2 rows antenna, 192 antenna elements
- RET 2-12°downtilt
- Interface: 2 x 25Gb eCPRI

AIR3283- B25 & B66	Height	Width	Depth	Weight
w/ protruding items	47.2 in (1200 mm)	20 in (508 mm)	10.9 in (277 mm)	<110 lbs (50 Kg)
w/ protruding items	47.2 in (1200 mm)	20 in (508 mm)	12.9 in (328 mm)	

- -48v DC, 3 wire or 2 wire, 50A fuse
- Max Power consumption @100 Load: TBD W
- Power Consumption @ 50% load: TBD W

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Pending Commercial Agreement



Now confirmed max measurements/ will not exceed

AIR 3283 ANTENNA SPECIFICATIONS

Radio 4490HP 44B5 44B13 C

- 4 common RF ports (C)
- B5: 4x60W, B13: 4x60W
- 480W total RF output power
- L, NR, NB-IoT
- 2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI

Radio 4490HP 44B5 44B13 C	Height	Width	Depth	Weight
w/ protruding items	17.6 in (444 mm)	15.2 in (384 mm)	6.8 in (172 mm)	468.4 lbs (~211 kg)
w/ protruding items	20.6 in (522 mm)	15.7 in (397 mm)	7.0 in (178 mm)	

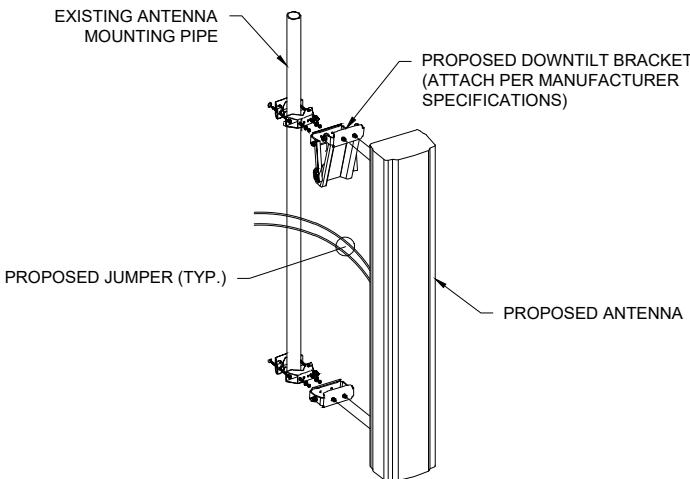
- -48 VDC 2-wire (one DC connector input)
- AISG v3.0 IMA & RET support via RS-485 or RF connectors
- Type 4,3-10 RF + connectors
- 2 external alarm
- Convectional cooling
 - Optional fan for increased site flexibility
- IP 65, -40 to +55°C

Pending Commercial Agreements



Now confirmed max measurements/ will not exceed

RRU4490 DETAIL



ANTENNA MOUNT DETAIL

AIR 6419 B77D/ C-Band

- Advanced Antenna System (AAS)
- 64TX/64RX with 192 AE, (3x1)x(4x8) x-pol
- Up to 320W, PSD 4W/MHz
- EIRP up to 79 dBm
- Up to 200 MHz IBW
- Max total carrier BW: 200MHz for NR
- Support number of layers: DL/UL 16/8

AIR 6419 B77D/ C-Band	Height	Width	Depth	Weight
w/ protruding items	28.3 in (717 mm)	18.1 in (459 mm)	8.0 in (203 mm)	71 lbs (32 Kg)
w/ protruding items	31.3 in (793 mm)	18.1 in (459 mm)	8.0 in (203 mm)	

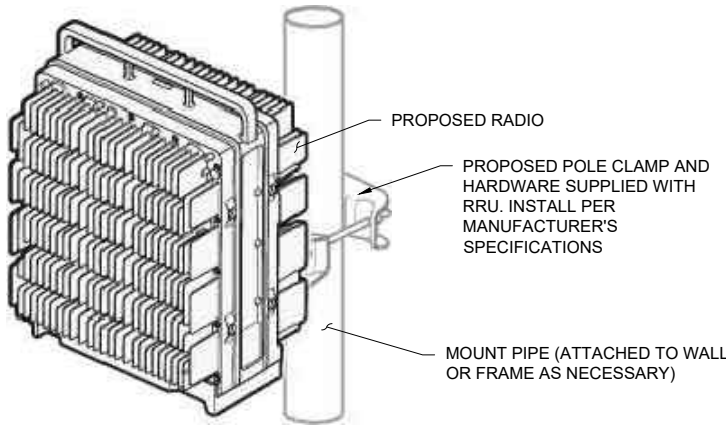
- -48 VDC (3-wire or 2-wire), Fuse Minimum 40 A, maximum 50 A
- Power consumption: TBD
- -40 to +55°C

Pending Commercial Agreements

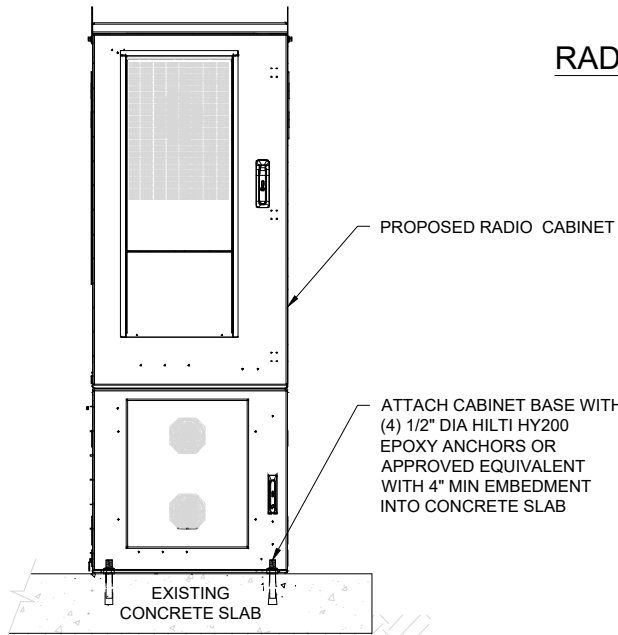


max measurements/ will not exceed

AIR 6419 ANTENNA SPECIFICATIONS



RADIO PIPE MOUNT DETAIL



CABINET ANCHOR BOLTS DETAIL

SCALE : NTS

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SHEET NAME

EQUIPMENT DETAILS

SHEET NUMBER

C-4

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SHEET NAME

PROPOSED ANTENNA &
CABLE SCHEDULE

SHEET NUMBER

C-5

PROPOSED ANTENNA & CABLE SCHEDULE												
SECTOR	POS.	USE	MANUFACTURER (MODEL #)	RAD CENTER	CABLE SIZE	AZIMUTH (TN)	CABLE LENGTH	MECH. D-TILT	ELEC. D-TILT	EQUIPMENT (MODEL #)	OVP-BOX (TOWER)	
ALPHA	1	700 LTE 850 LTE 1900 LTE 1900 5G AWS LTE AWS3 5G nL-Sub6 5G	COMMSCOPE (NHH-65C-R2B)	245.0'	(2) 6/12 HYBRID CABLES	340°	N/A	*	*	(1) ERICSSON RRU (RRU 4490)	(2) RAYCAP OVP'S (OVP-6)	
	2		COMMSCOPE (NHH-65C-R2B)					*	*			
	3		ERICSSON (AIR 3283)					*	*			
	4		ERICSSON (AIR 6419)					*	*			
BETA	1		COMMSCOPE (NHH-45C-R2B)			160°		*	*	(1) ERICSSON RRU (RRU 4490)		
	2		COMMSCOPE (NHH-45C-R2B)					*	*			
	3		ERICSSON (AIR 3283)					*	*			
	4		ERICSSON (AIR 6419)					*	*			
GAMMA	1		COMMSCOPE (NHH-65C-R2B)			235°		*	*	(1) ERICSSON RRU (RRU 4490)		
	2		COMMSCOPE (NHH-65C-R2B)					*	*			
	3		ERICSSON (AIR 3283)					*	*			
	4		ERICSSON (AIR 6419)					*	*			

PROPOSED EQUIPMENT IN BOLD
* REFER TO RFDS

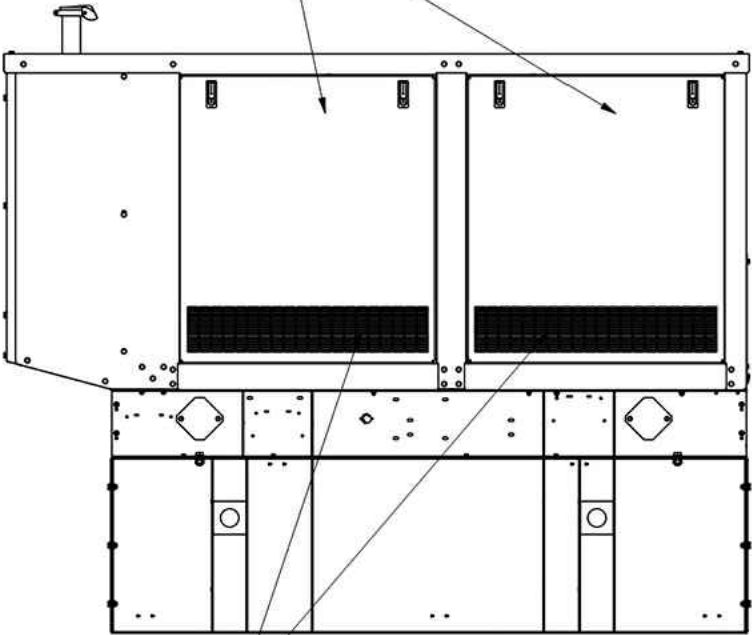
NOTES:

- VERIZON WIRELESS CURRENTLY HAS (2) 6/12 HYBRID CABLES INSTALLED. ALL TO REMAIN.
- REQUEST CURRENT RFDS BEFORE INSTALLATION.
- ALL VERIZON WIRELESS ANTENNA AND CABLE DATA BASED ON ASSUMED ANTENNA HEIGHT, CONTRACTOR SHALL VERIFY PROPOSED ANTENNA HEIGHT PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, ORDERING OF ANY ANTENNA OR CABLE MOUNTING HARDWARE.

NOTES:

1. BOTH SIDES OF THE GENERATOR ARE SERVICE ACCESSIBLE W/EASY ACCESS SERVICE PANELS.
2. 6 AMP BATTERY CHARGER.
3. 120VAC ENGINE BLOCK HEATER.
4. GENERATOR MUST BE GROUNDED.
5. SOUND ATTENUATED ENCLOSURE STANDARD WITH GENERATOR.
6. MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST.
7. MUST ALLOW FREE FLOW OF INTAKE AIR.
8. IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.

LIFT OFF SERVICE PANELS
W/ LOCKABLE LATCHES



AIR INTAKES

37.5 REF
[1.48]

1106.0
[43.54]

50.9
[2.00]

LIFT OFF SERVICE PANELS
W/ LOCKABLE LATCHES

EXTERNAL
E-STOP
SWITCH

ALTERNATOR
ACCESS PANEL

REMOVABLE END
PANEL BOTH ENDS

965
[38.0]

1040
[40.9]

MINIMUM REQUIRED CLEARANCE FOR AIR FLOW

610
[24.0]

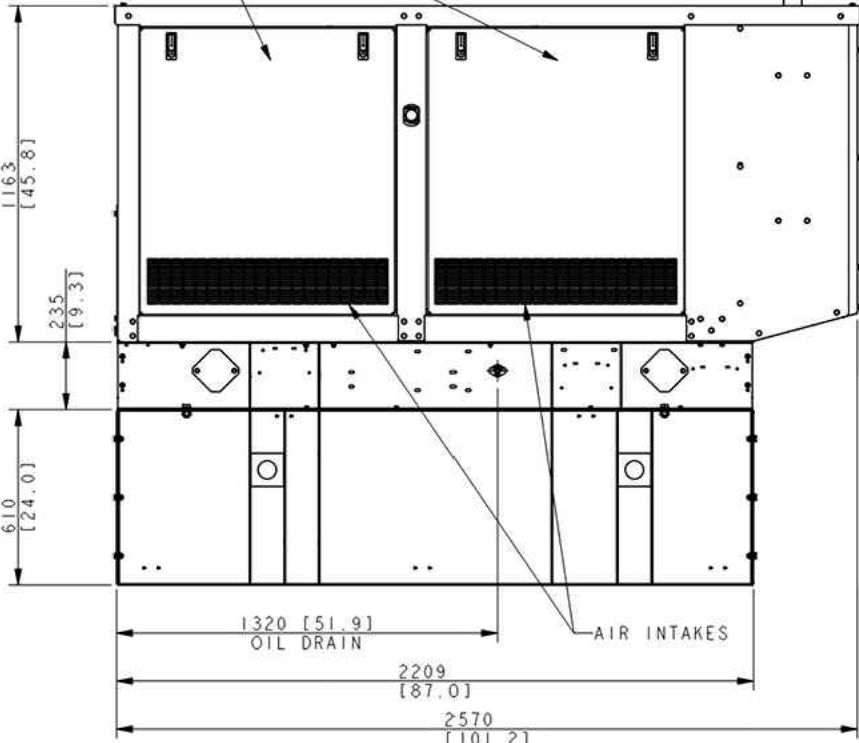
AIR DISCHARGE

176
[6.9]

EXHAUST
RAIN CAP

195
[7.7]

168
[6.6]



1320 [51.9]

OIL DRAIN

2209
[87.0]

2570
[101.2]

AIR INTAKES

DIMENSIONS IN [] ARE INCH EQUIVALENTS.

MODEL	ALTERNATOR	GENSET WEIGHT (WET)	GENSET WEIGHT (WET) WITH ENCLOSURE	GENSET WEIGHT (WET) WITH ENCLOSURE & BASE
40-60KW	4P7/4Q7	807 KG [1780 LBS]	1051 KG [2318 LBS]	1290 KG [2844 LBS]
45-60KW	4P10/4Q10	862 KG [1900 LBS]	1106 KG [2438 LBS]	1345 KG [2965 LBS]

40-60KG KOHLER NG/LP
W/ SOUND ENCLOSURE

REV	DATE	ON COMPOSITE DWGS., SEE PART NO. FOR REVISION LEVEL	BY	DO NOT SCALE. REFERENCE THE MODEL FOR ALL UNSPECIFIED DIMENSIONS.
-	10-11-18	NEW DRAWING [CT192924]	AWK	UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS IN MILLIMETERS GENERAL TOLERANCES: FRACTIONS ± 0.25 DECIMALS ± 0.10 ANGLES ± 0.30° SURFACE FINISH MAX. THIRD ANGLE PROJECTION
				KOHLER KOHLER, WISCONSIN 53044 THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.
				TITLE DIMENSION PRINT, KG40/60 6.2L VERIZON, ENCLOSED
				APPROVALS: DATE DRAWN: AWK 10-11-18 CHECKED: JMR 10-11-18 APPROVED: LBO 10-11-18
				SCALE: 0.09" = 1'-0" CAD NO.: SHEET 1 of 3 DWG NO.: ADV-9091 D

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PROFESSIONAL SEAL



12/16/2025

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CBVR PROJECT #: VZW.301.25

ISSUED DATES

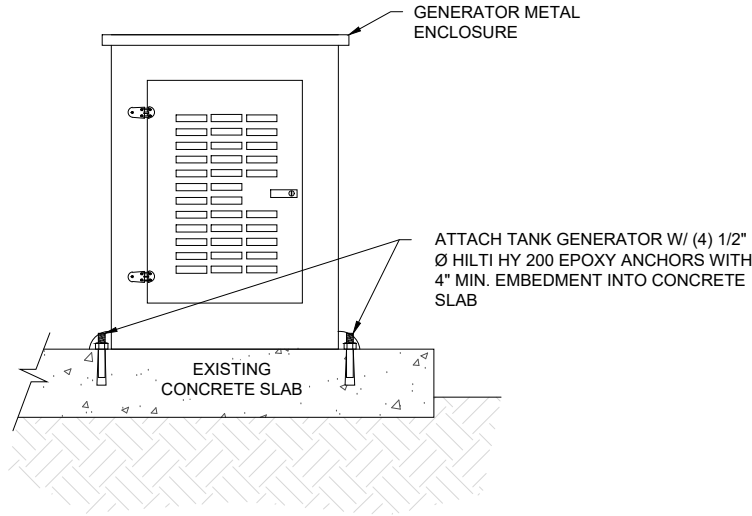
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SHEET NAME

GENERATOR DETAILS

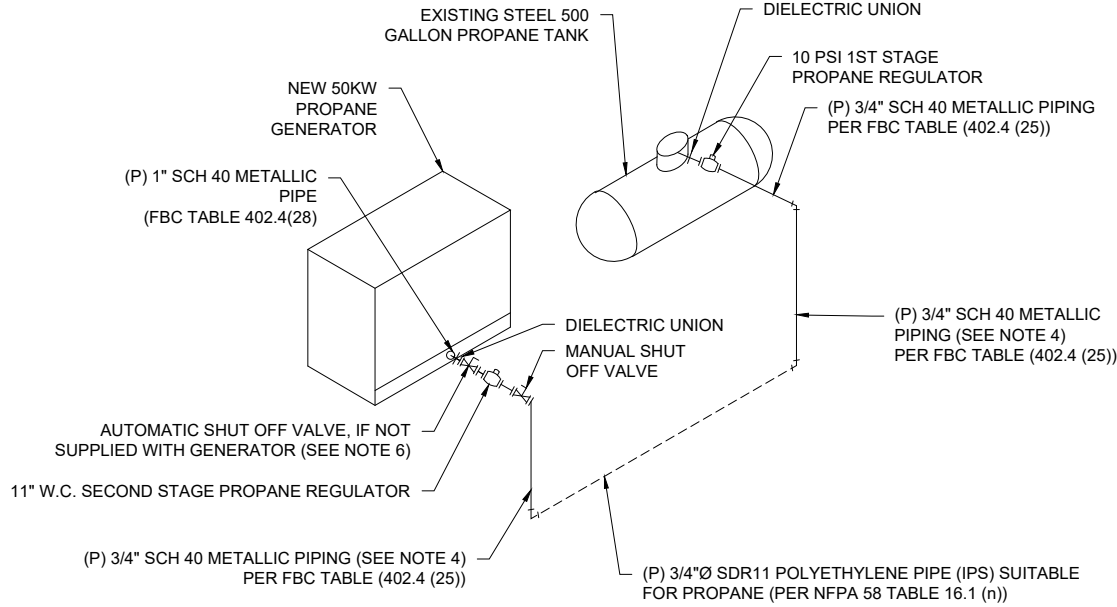
SHEET NUMBER

C-6



GENERATOR ANCHOR BOLTS DETAIL
NOT TO SCALE

NOTE:
IF IT IS REQUIRED TO APPRECIABLY ALTER THE LENGTH OF THE FUEL LINE OR THE NUMBER OF BENDS FROM WHAT IS SHOWN IN THIS DIAGRAM, CONTRACTOR SHALL CONTACT ENGINEERING FIRM FOR RECALCULATION OF FUEL LINE SIZE.



GAS PIPING NOTES FOR LINE BETWEEN 2ND STAGE REGULATOR & GENERATOR (PER 8TH EDITION 2023 FLORIDA BUILDING CODE FUEL GAS):

1. PIPING (EFFECTIVE LENGTH) = < 10'
2. FUEL DEMAND OF GENERATOR = 847,892 BTU/HR
3. BTU CAPACITY OF PIPING SYSTEM = 1,150,000 - BTU/HR PER FBC TABLE (402.4 (28))
4. ABOVE GROUND SCH 40 METALLIC SHALL BE METALLIC PIPING PER ASME B31.3
5. ALL GAS PIPING MATERIALS AND INSTALLATION TO BE IN ACCORDANCE WITH NFPA 58 AND 2023 FLORIDA BUILDING CODE FUEL GAS.
6. GENERATOR SHALL BE EQUIPPED WITH A MANUAL AND AN AUTOMATIC SHUT-OFF VALVE PER NFPA 37, SECTION 5.4.

GAS PIPING NOTES FOR LINE BETWEEN 1ST & 2ND STAGE REGULATORS (PER 8TH EDITION 2023 FLORIDA BUILDING CODE FUEL GAS & NFPA 58):

1. PIPING (EFFECTIVE LENGTH) = 60' +/-
2. FUEL DEMAND OF GENERATOR = 847,892 BTU/HR
3. BTU CAPACITY OF PIPING SYSTEM = 2,640,000 BTU/HR
4. ABOVE GROUND SCH 40 METALLIC SHALL BE METALLIC PIPING PER ASME B31.3
5. ALL GAS PIPING MATERIALS AND INSTALLATION TO BE IN ACCORDANCE WITH NFPA 58 AND 2023 FLORIDA BUILDING CODE FUEL GAS.

GENERATOR PIPE DETAILS
NOT TO SCALE

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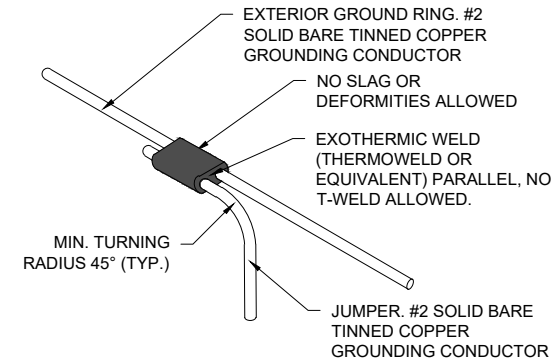
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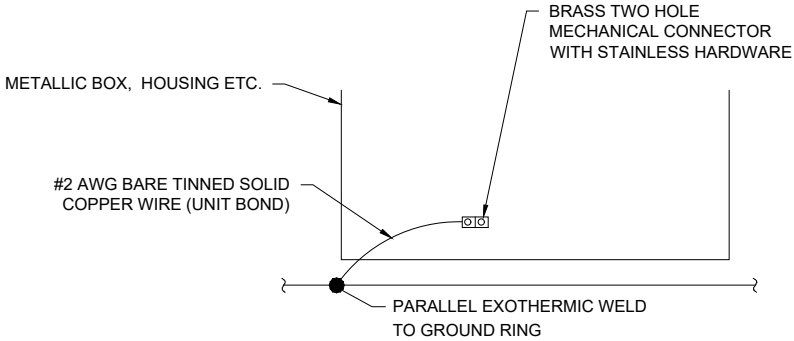
GENERATOR PIPE DETAILS

SHEET NUMBER

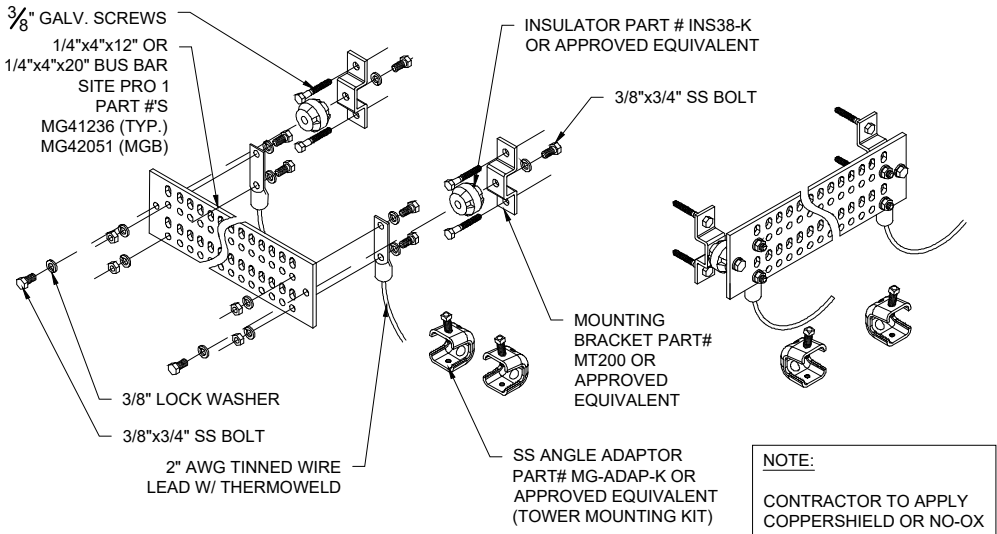
C-7



EXOTHERMIC WELD DETAIL
SCALE : N.T.S.



TYP. METALLIC GROUNDING DETAIL
SCALE : N.T.S.



TYPICAL GROUND BAR DETAIL
SCALE : N.T.S.

ELECTRICAL NOTES:

ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), AND APPLICABLE LOCAL CODES.

GROUNDING SHALL COMPLY WITH ARTICLE 250 OF NATIONAL ELECTRICAL CODE.

ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED.

ALL WIRES SHALL BE AWG MIN #12 THHN COPPER UNLESS NOTED.

CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT UNLESS NOTED OTHERWISE.

ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 8" RADIUS.

ENGAGE AN INDEPENDENT TESTING FIRM TO TEST AND VERIFY THAT RESISTANCE DOES NOT EXCEED 5 OHMS TO GROUND. TEST GROUND RING RESISTANCE PRIOR TO MAKING FINAL GROUND CONNECTIONS TO INFRASTRUCTURE AND EQUIPMENT. GROUNDING AND OTHER OPERATIONAL TESTING SHALL BE WITNESSED BY VERIZON WIRELESSS REPRESENTATIVE.

PROVIDE PULL BOXES AND JUNCTION BOXES WHERE REQUIRED SO THAT CONDUIT BENDS DO NOT EXCEED 360°.

OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL WORK PERFORMED ON THIS PROJECT. DELIVER COPIES OF ALL PERMITS TO VERIZON WIRELESS REPRESENTATIVE.

SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION HAVING AUTHORITY. CORRECT AND PAY FOR ANY WORK REQUIRED TO PASS ANY FAILED INSPECTION.

REDLINED AS-BUILTS ARE TO BE DELIVERED TO VERIZON WIRELESS REPRESENTATIVE.

ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY VERIZON WIRELESS REPRESENTATIVE.

CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY EXISTING SITE CONDITIONS AFFECTING THIS WORK. REPORT ANY OMISSIONS OR DISCREPANCIES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.

PROTECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE. REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREA.

REMOVE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED IN A TIMELY FASHION WILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY. REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. DEBRIS SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF LEGALLY.

UPON COMPLETION OF WORK, THE SITE SHALL BE CLEAN AND FREE OF DUST AND FINGERPRINTS.

GROUNDING NOTES:

ALL DOWN GROUND WIRE AND GROUND SYSTEM WIRE SHALL BE #2 AWG, SOLID, BARE, TINNED COPPER. ALL CONNECTIONS TO GROUND SYSTEM SHALL BE EXOTHERMICALLY WELDED.

WHERE MECHANICAL GROUNDING CONNECTIONS ARE SPECIFIED, BOLTED, COMPRESSION-TYPE CLAMPS OR SPLIT-BOLT TYPE CONNECTORS SHALL BE USED.

GRIND OFF GALVANIZING IN AFFECTED AREA. EXOTHERMICALLY WELD #2 CONDUCTOR. COLD-GALV AFTER. EXOTHERMICALLY WELD OTHER END TO GROUND.

FOLLOWING COMPLETION OF WORK, CONDUCT GROUND TEST. SUBMIT WRITTEN TEST TO CONSTRUCTION MANAGER AND PROJECT MANAGER.

ALL GROUNDING WORK SHALL COMPLY WITH VERIZON WIRELESS STANDARDS.

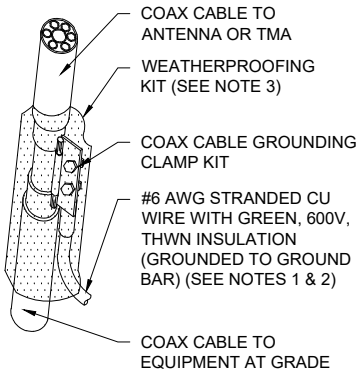
UNLESS NOTED OTHERWISE, ALL GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS'S REQUIREMENTS FOR "BONDING, GROUNDING AND TRANSIENT PROTECTION FOR CELL SITES", AND "SITE RESISTANCE TO EARTH TESTING". ALL GROUNDING SHALL ALSO COMPLY WITH ALL STATE AND LOCAL CODES, AND THE NATIONAL ELECTRICAL CODE (NEC).

UNLESS NOTED OTHERWISE, ALL GROUNDING CONNECTIONS SHALL BE MADE BY AN EXOTHERMIC WELD.

RESISTANCE TO EARTH TESTING IS REQUIRED PER NEC STANDARDS ON ALL NEW SITES.

NEW INSTALLED ANTENNA PIPE MOUNTS SHALL BE EXOTHERMICAL GROUNDED W/ #2 AWG SOLID TINNED COPPER TO EXISTING GROUND SYSTEM (EACH SECTOR).

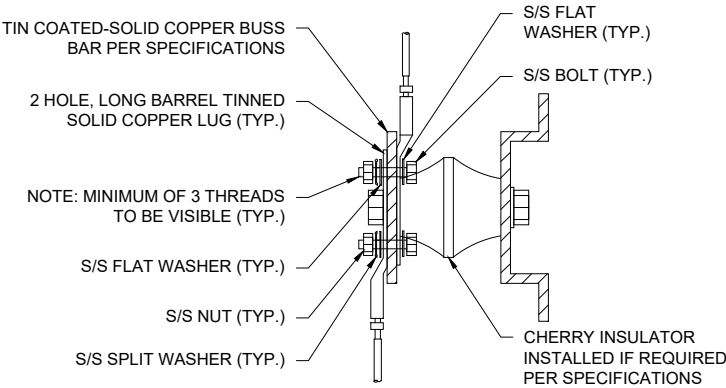
ALL NEW COAX OR HYBRID CABLES SHALL BE GROUNDED W/ SUPPLIED GROUND KIT TO SECTOR GROUND SYSTEM.



COAX CABLE GROUND
SCALE : N.T.S.

NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHERPROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- BUTYL TAPE WEATHERPROOFING MUST FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE FOLLOWING MODIFICATION: ON THE FIRST TAPE PASS PROVIDE A COURTESY WRAP TO AVOID PERMANENTLY ADHERING TO THE COAX CONNECTOR. START TAPE APPROXIMATELY 5 INCHES FROM THE CONNECTOR AND WRAP 2 INCHES TOWARD THE CONNECTOR, THEN REVERSE THE TAPE A HALF TURN OR SO THAT THE STICKY SIDE IS UP. CONTINUE WRAPPING THE TAPE OVER THE CONNECTOR UNTIL 3 INCHES BEYOND THE CONNECTOR AND REVERSE THE TAPE A HALF TURN AGAIN OR SO THAT THE STICKY SIDE IS DOWN FOR ANOTHER 2 INCHES.
- WHEN APPLIED, THE TAPE MUST BE ABOVE 32°F (0°C) TO ENSURE ADHESION
- DO NOT STRETCH THE TAPE AND DO NOT PULL THE TAPE TO TEAR IT - ALWAYS CUT IT. PULLED TAPE EVENTUALLY UNRAVELS. DECREASING POSITION.
- TIGHTLY WRAP THE RUBBER TAPE WITH 2 LAYERS OF VINYL INSULATING TAPE.



NOTES:

- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT WASHERS.
- COAT WIRE END WITH ANTI-OXIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING.
- APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS PRIOR TO MATING AND BOLTING.

GROUNDING BAR LUG DETAILS
SCALE : N.T.S.

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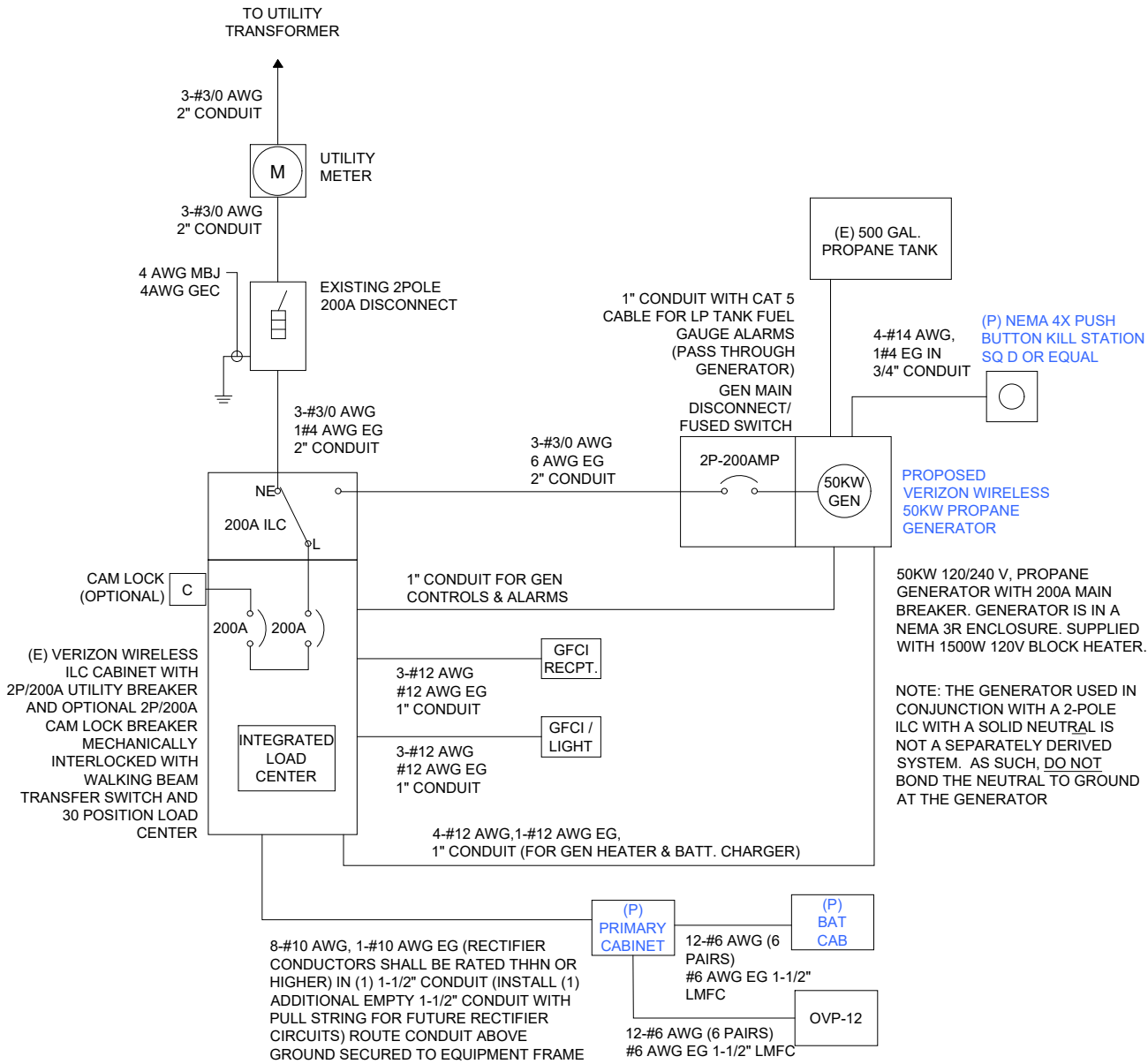
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SHEET NAME

GROUNDING DETAILS

SHEET NUMBER

E-1



- NOTES:
1. ALL EQUIPMENT SHALL BE NEMA 3R RATED.
 2. ALL EQUIPMENT SHALL BE LIGHTNING PROTECTED IN ACCORDANCE WITH TIA-222-G AND VERIZON WIRELESS STANDARDS.
 3. DESIGN ENGINEER SHALL VERIFY ALL CONDUCTOR SIZES FOR SITE SPECIFIC DISTANCES REQUIRED (TOTAL SYSTEM VOLTAGE DROP INCLUDING FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%).
 4. WIRE SIZING AND MAXIMUM DISTANCE FROM GENERATOR TO ILC ASSUMES POWER FACTOR OF 0.9.
 5. BELOW GRADE CONDUIT SHALL BE SCHEDULE 80 PVC. ABOVE GRADE CONDUIT SHALL BE GALVANIZED RIGID CONDUIT. BELOW GRADE PVC CONDUIT SHALL TRANSITION TO GRC PRIOR TO RISING ABOVE GRADE. ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.

VERIZON WIRELESS ELECTRICAL SINGLE LINE DIAGRAM

NOT TO SCALE

PANEL NAME:		VERIZON			MODEL NUMBER:		ASCO D300L SERIES										
RATED VOLTAGE:		240	120	VOLTS		PHASE/WIRE:		1	3								
MAIN BREAKER:		200	AMPS			BUS RATING:		200			KEY DOOR LATCH:		YES				
MOUNT:		SURFACE			NEUTRAL BAR:		YES			HENGED DOOR:		YES					
ENCLOSURE TYPE:		NEMA 3R			AIC:		65K										
POS	USAGE FACTOR	BUS AMPS		LOAD	POLES	AMPS	L1	L2	AMPS	POLES	LOAD	BUS AMPS		USAGE FACTOR	POS		
		L1	L2									L1	L2				
1	1	12		RECTIFIER 1	2	30A			30A	2	RECTIFIER 3	12		1	2		
3	1		12											12		1	4
5	1	12		RECTIFIER 2	2	30A			30A	2	RECTIFIER 4	12		1	6		
7	1		12												12		1
9				SPARE (OFF)	2	30A			30A	2	SPARE (OFF)				10		
11																	12
13				SPARE (OFF)	2	30A			30A	2	SPARE (OFF)				14		
15																	16
17	1	4		AREA LIGHT	1	20A			20A	1	GENERATOR CONTROL PANEL	8		1	18		
19	1		4	EQUIP CAB GFI	1	20A			20A	1	GENERATOR HEATER		12	1	20		
21									60A	2	FIBER CAB PANEL	12		1	22		
23																12	1
25															26		
27															28		
29															30		
		28	28	:FACTORED SUB TOTAL AMPS								FACTORED SUB TOTAL AMPS:		44	48		
												FACTORED TOTAL AMPS:		72	76		
NOTES:																	
1. ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER, UNLESS NOTED OTHERWISE.																	
2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50FT.																	
3. ASCO INTEGRATED LOAD CENTER INCLUDES 200 AMP MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.																	
4. RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS, BLOCK HEATER AND BATTERY CHARGER ARE INACTIVE WHILE GENERATOR IS IN USE.																	
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.																	

VZW LOAD CALCULATION

LOAD	AMPS
PROPOSED LOAD:	76
TOTAL DEMAND:	76
VOLTAGE: 120/240V SINGLE PHASE 3W 200A	

PANEL SCHEDULE

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SHEET NAME

ELECTRICAL DETAILS

SHEET NUMBER

E-2