

T-Mobile

T-MOBILE SITE NUMBER: 9JK0344B

T-MOBILE SITE NAME: HILDRETH

RFDS CONFIGURATION: 67E5A998E 6160 (GSM ON 6630)

SITE ADDRESS: 12343 SW US HWY 27

FORT WHITE, FL 32038

COUNTY: COLUMBIA

SITE TYPE: SELF SUPPORT

T-MOBILE EXCALIBUR ERICSSON SWAP

SITE INFORMATION	
SITE ADDRESS:	12343 SW US HWY 27 FORT WHITE, FL 32038
COUNTY:	COLUMBIA
CONSTRUCTION TYPE:	ANTENNA MODIFICATION
LATITUDE:	29.95239360
LONGITUDE:	-82.77924780
LAT/LONG TYPE:	NAD83
JURISDICTION:	COLUMBIA COUNTY
CARRIER/APPLICANT:	T-MOBILE 5901 BENJAMIN CENTER DRIVE, STE 110 TAMPA, FL 33634

CONTACTS	
A&E FIRM:	TELECAD WIRELESS SITE DESIGN 1961 NORTHPOINT BLVD, SUITE 130 HIXSON, TN 37343 PHONE: 423-843-9500
TOWER OWNER:	PROGRESS TELECOM CORP 263 13TH AVENUE SOUTH ST. PETERSBURG, FL 33701
TELEPHONE COMPANY:	TBD
POWER COMPANY:	TBD

APPROVALS	
DEVELOPMENT MANAGER	DATE
CONSTRUCTION MANAGER	DATE
PROPERTY/TOWER OWNER	DATE
RF ENGINEER	DATE
SITE ACQUISITION MANAGER	DATE
OPERATIONS MANAGER	DATE

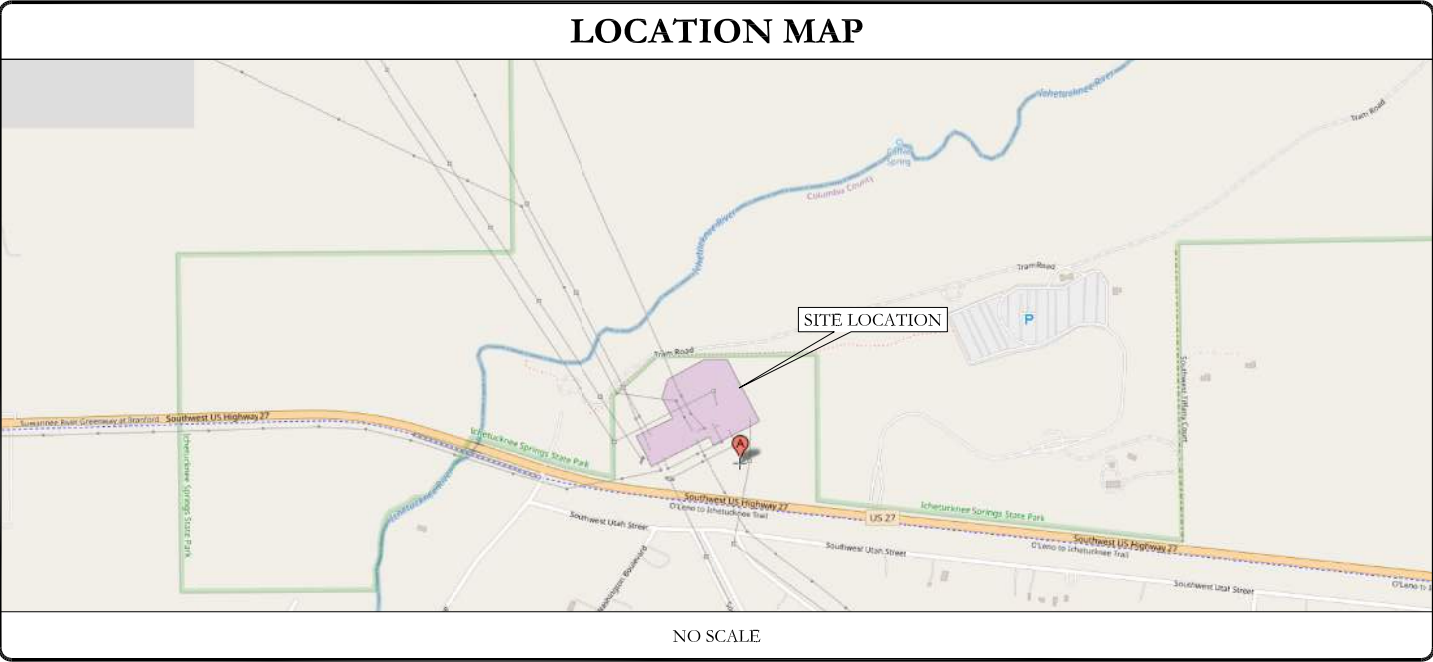
DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
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T-2	GENERAL NOTES
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C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES & DETAILS
C-4	EQUIPMENT SPECS
C-5	EQUIPMENT SPECS
C-6	PROPOSED PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11"X17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	



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PROJECT DESCRIPTION
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.
TOWER SCOPE OF WORK: - REMOVE (3) SECTOR FRAMES - REMOVE (3) COVP - REMOVE (6) RRHs - REMOVE (3) HIGH CAP HYBRID CABLES - INSTALL (3) SABRE IND. - C10857001C SECTOR FRAMES - INSTALL (3) ANTENNAS - INSTALL (6) RRHs - INSTALL (3) ERICSSON HYBRID TRUNK 6/24 4AWG 90M
GROUND SCOPE OF WORK: - REMOVE (3) EQUIPMENT CABINETS - REMOVE (2) COVPs - INSTALL (2) EQUIPMENT CABINETS
NOTE: THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. T-MOBILE IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.



ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2020 FLORIDA BUILDING CODE 7TH EDITION/2015 IBC
MECHANICAL	2020 FLORIDA BUILDING CODE 7TH EDITION/2015 IMC
ELECTRICAL	2020 FLORIDA BUILDING CODE 7TH EDITION/2017 NEC

DRIVING DIRECTIONS

DIRECTIONS FROM 7025 AC SKINNER PARKWAY, JACKSONVILLE, FL 32256:
DEPART AND HEAD WEST ON A C SKINNER PKWY. TURN RIGHT ONTO BELFORT RD. TURN LEFT. TAKE THE RAMP ON THE RIGHT AND FOLLOW SIGNS FOR FL-202 WEST. TAKE THE RAMP ON THE RIGHT FOR I-95 NORTH AND HEAD TOWARD JACKSONVILLE. AT EXIT 351B, HEAD RIGHT ON THE RAMP FOR STOCKTON ST TOWARD LAKE CITY. AT EXIT 301, HEAD RIGHT ON THE RAMP FOR US-41 TOWARD LAKE CITY. TURN RIGHT ONTO US-41 S / FL-100 / FL-25 / NW US HIGHWAY 41 TOWARD LAKE CITY. TURN RIGHT ONTO NW BASCOM NORRIS DR. TURN RIGHT ONTO FL-247 / SW STATE ROAD 247. KEEP LEFT TO STAY ON FL-247 / SW STATE ROAD 247. BEAR LEFT ONTO FL-137 / COUNTY ROAD 137. TURN LEFT ONTO US-27 S / FL-20 / US HIGHWAY 27. SITE IS ON THE LEFT.

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TAMPA, FL 33634

TeleCAD Wireless

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HIXSON, TN 37343
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FAX : 423-843-9509
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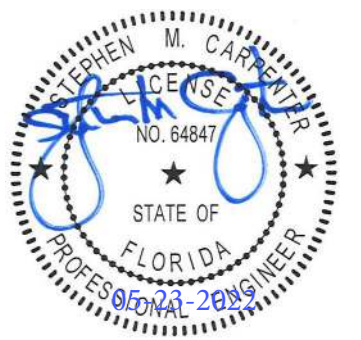
T-MOBILE SITE NUMBER:

9JK0344B

12343 SW US HWY 27
FORT WHITE, FL 32038

EXISTING 326'-0'
SELF SUPPORT

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	QA
A	02/14/22	TS	PRELIMINARY	KS
B	04/13/22	TS	PRELIMINARY	KS
0	05/23/22	TS	ISSUED FOR CONSTRUCTION	KS



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:

T-1

REVISION:

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GENERAL NOTES

1. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTORS SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
2. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
3. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
4. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
5. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
6. THE SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
7. THE SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
8. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWING MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED WHILE WORKING TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

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STEPHEN M. CARPENT

LICENSE

NO. 64847

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

05/23-2023

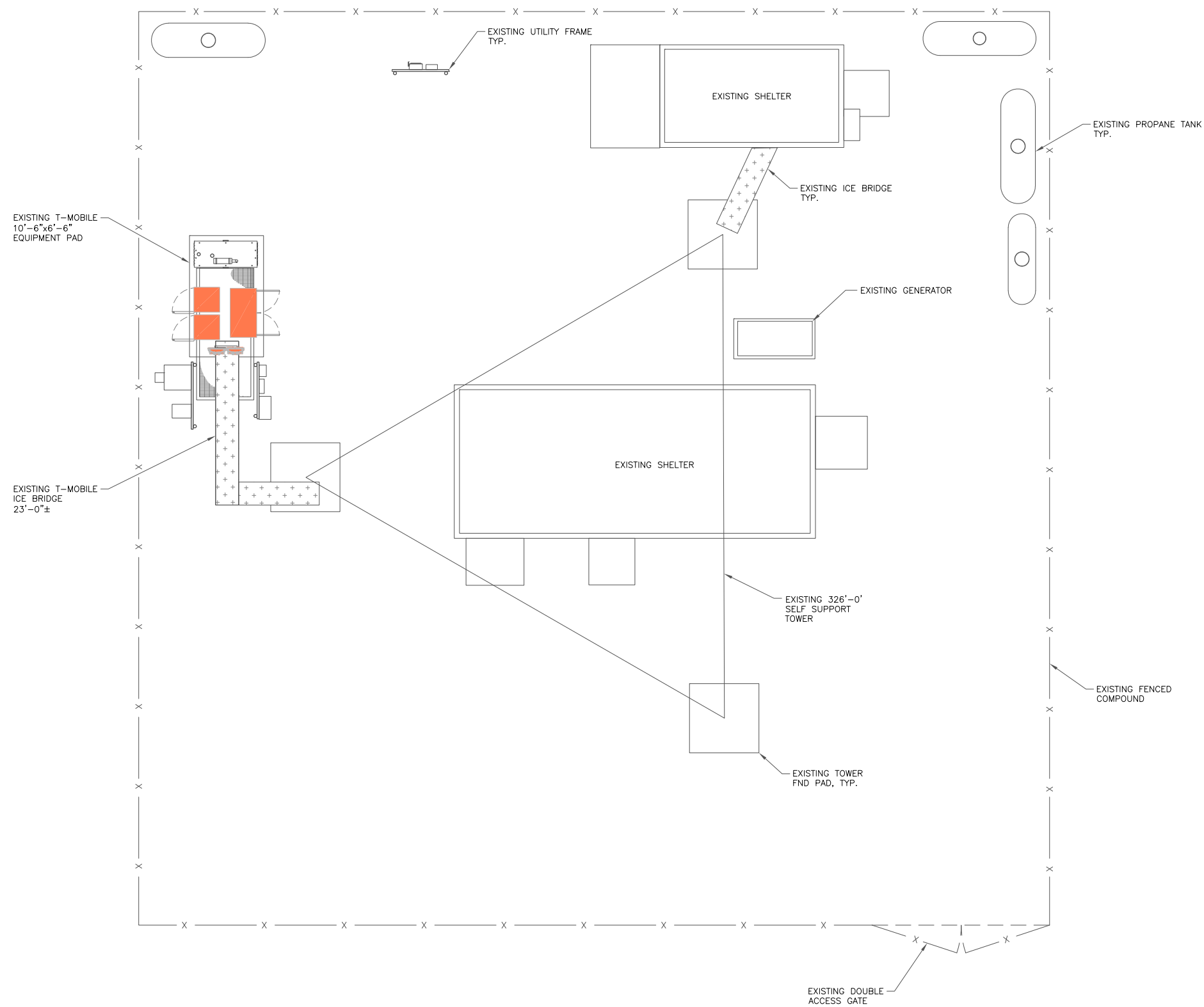
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1 EXISTING SITE PLAN
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)



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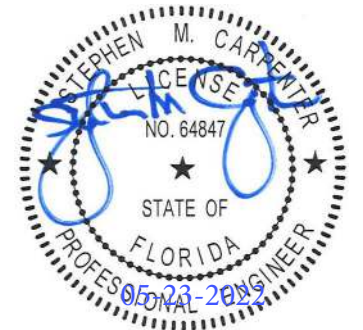
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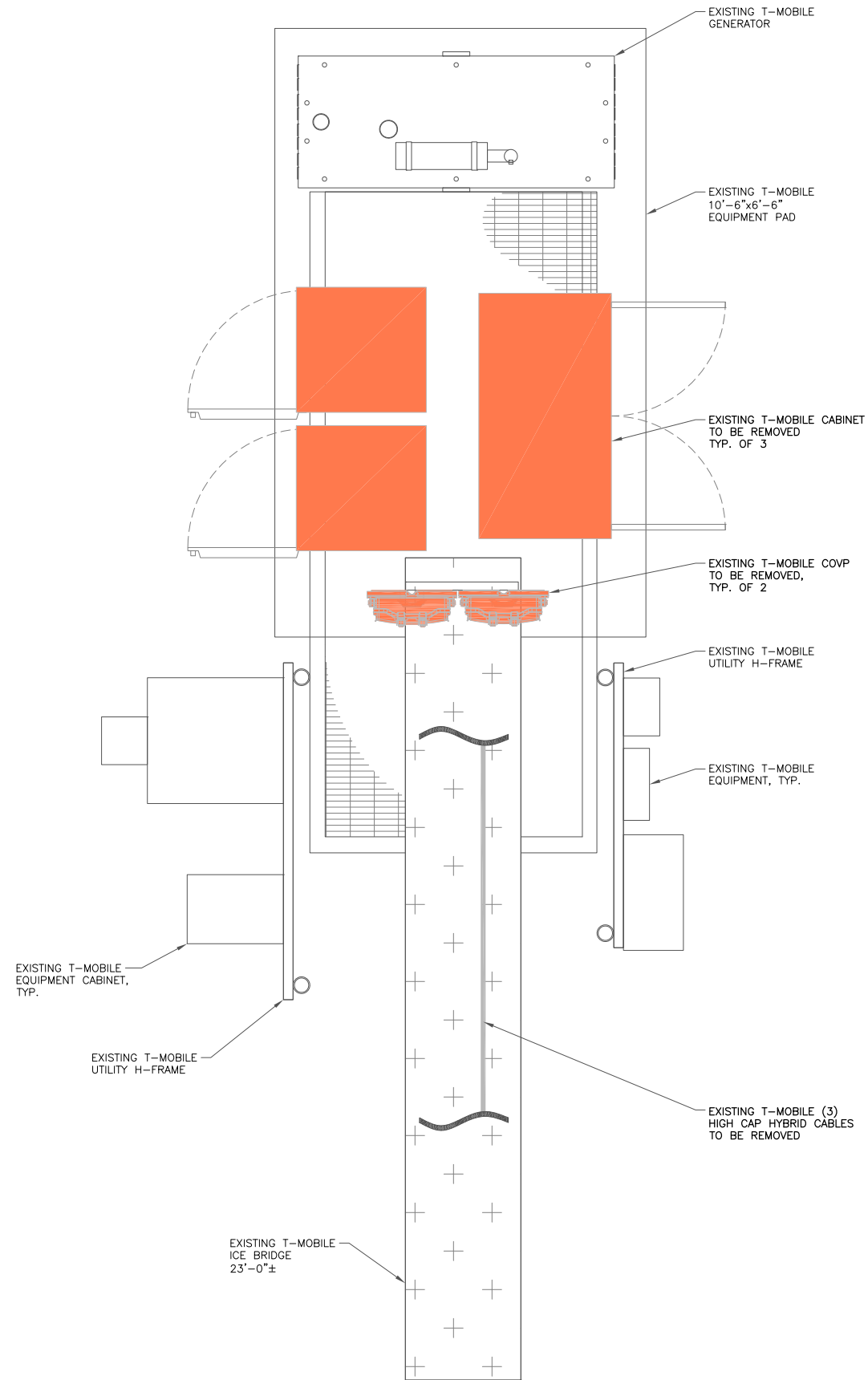
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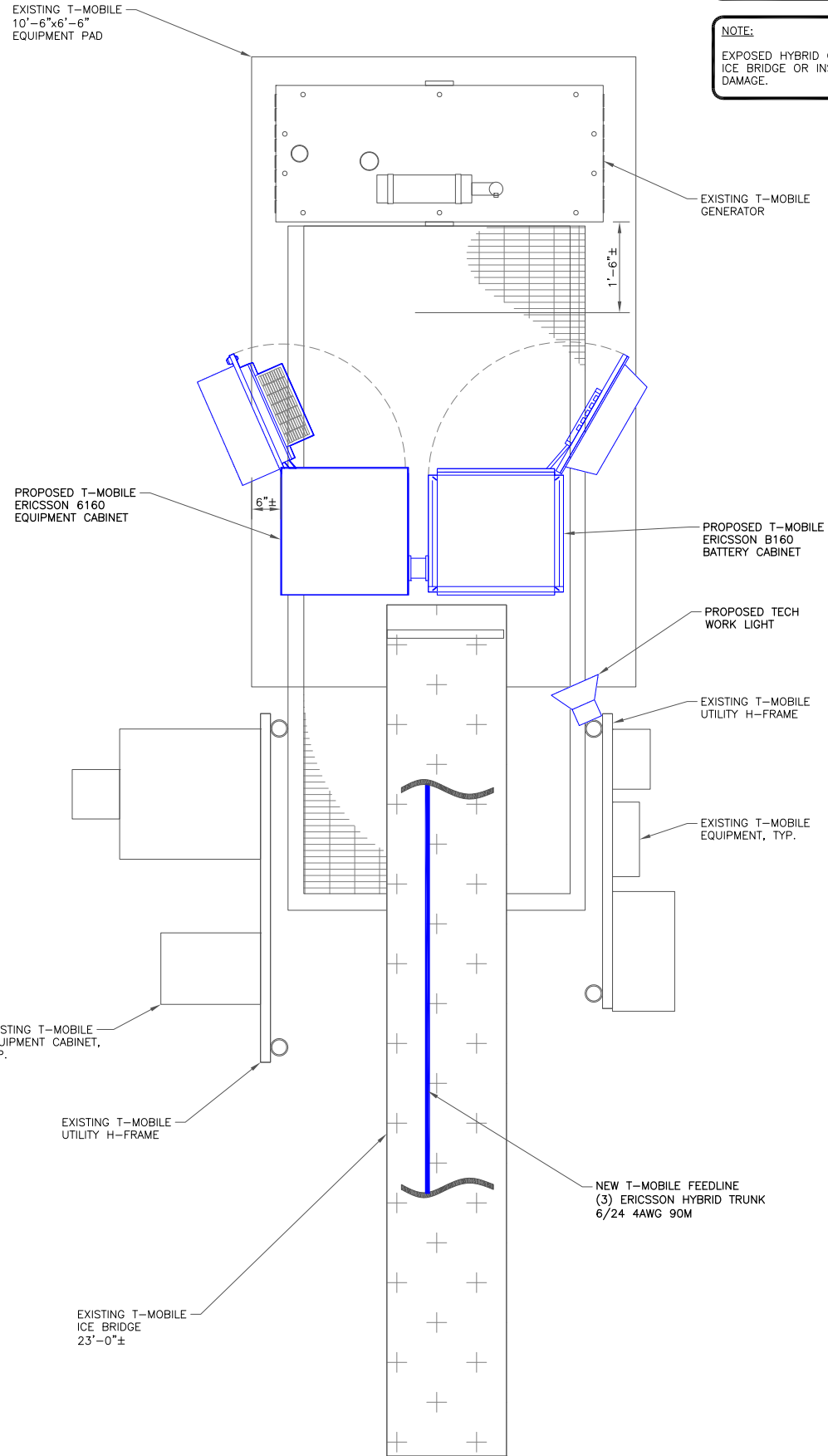
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1 EXISTING EQUIPMENT PLAN
 SCALE: 1" = 6'-0" (FULL SIZE)
 3/4" = 1'-0" (11x17)
 3/8" = 1'-0" (11x17)



2 FINAL EQUIPMENT PLAN
 SCALE: 1" = 6'-0" (FULL SIZE)
 3/4" = 1'-0" (11x17)
 3/8" = 1'-0" (11x17)



NOTE:
 THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. T-MOBILE IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

NOTE:
 EXPOSED HYBRID CABLES NEED TO BE UNDER THE ICE BRIDGE OR INSIDE THE CABLE TRAY TO AVOID DAMAGE.

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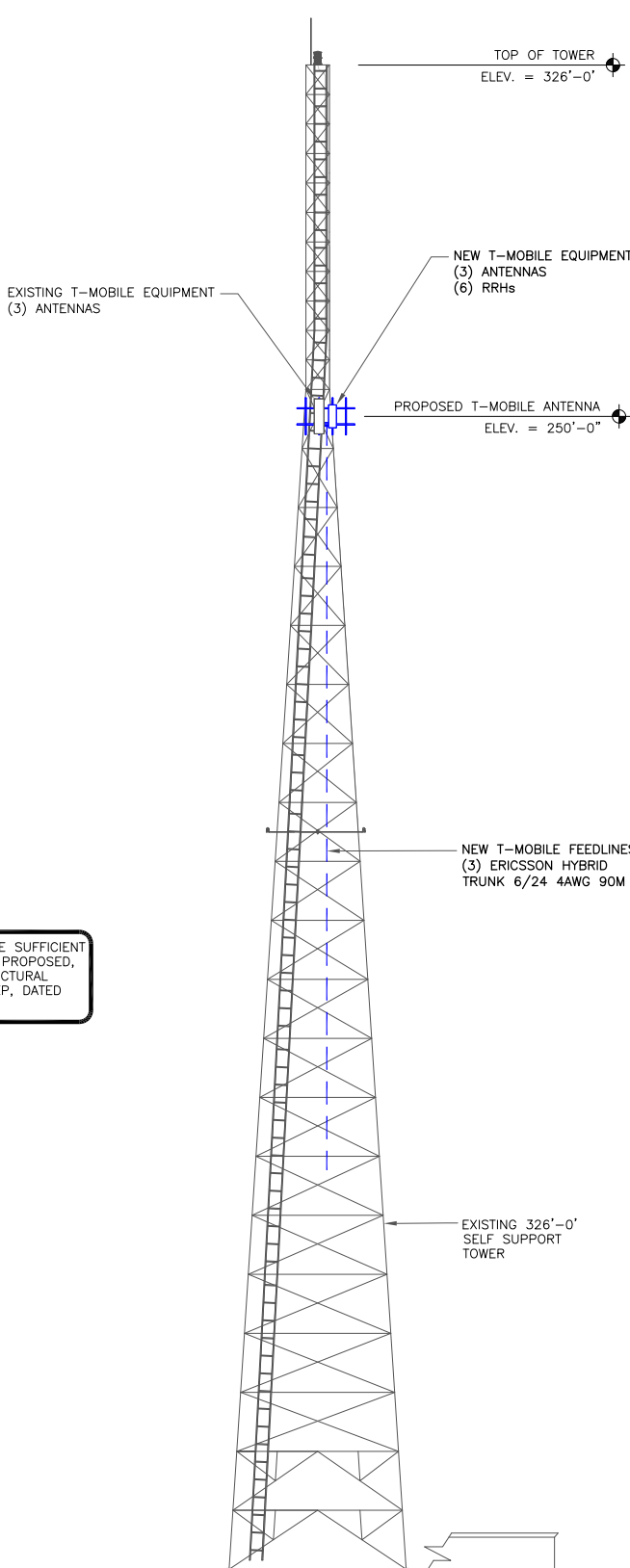
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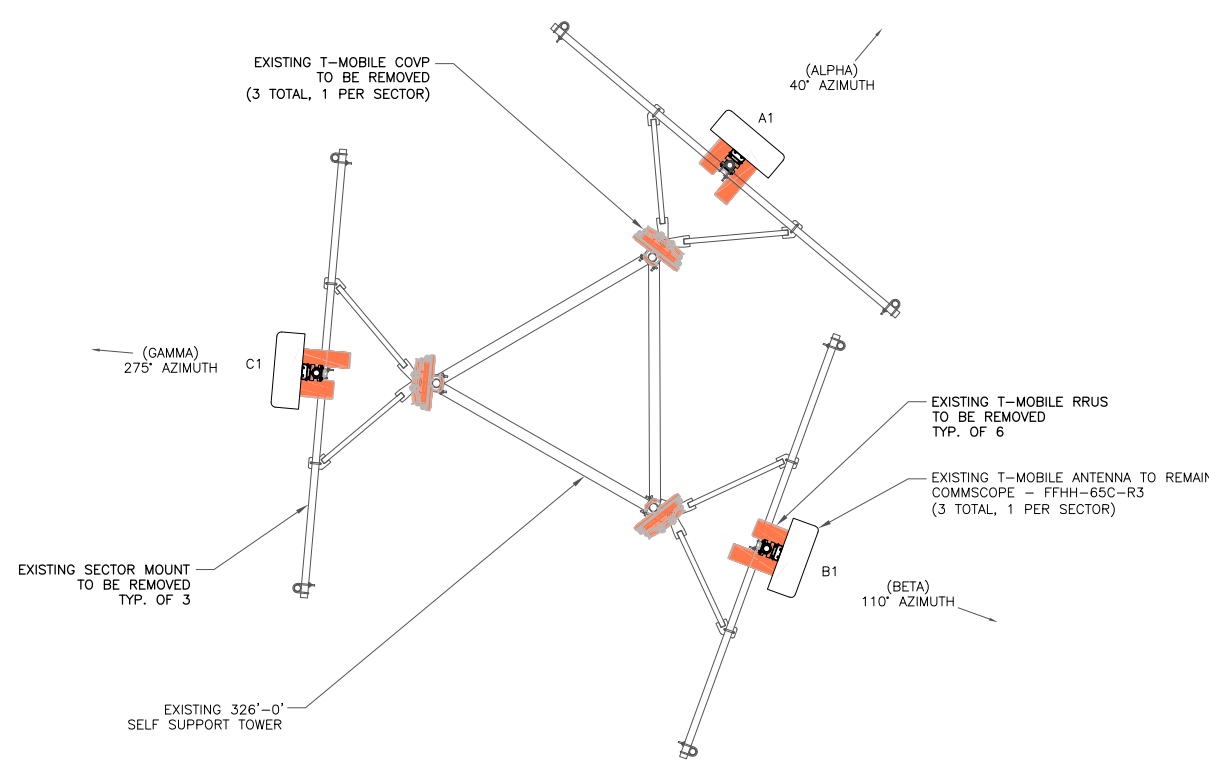


T-MOBILE EQUIPMENT
ANTENNA CL: 250'-0"
MOUNT CL: 250'-0"

ANY AND ALL TOWER MOUNTED EQUIPMENT MUST NOT TRAP OR INTERFERE W/ EXISTING SAFETY CLIMB

THE TOWER AND FOUNDATIONS HAVE SUFFICIENT CAPACITY TO CARRY THE EXISTING, PROPOSED, AND FUTURE LOADS PER THE STRUCTURAL ANALYSIS REPORT PREPARED BY TEP, DATED 03-21-2022.

1 FINAL ELEVATION
SCALE: NOT TO SCALE

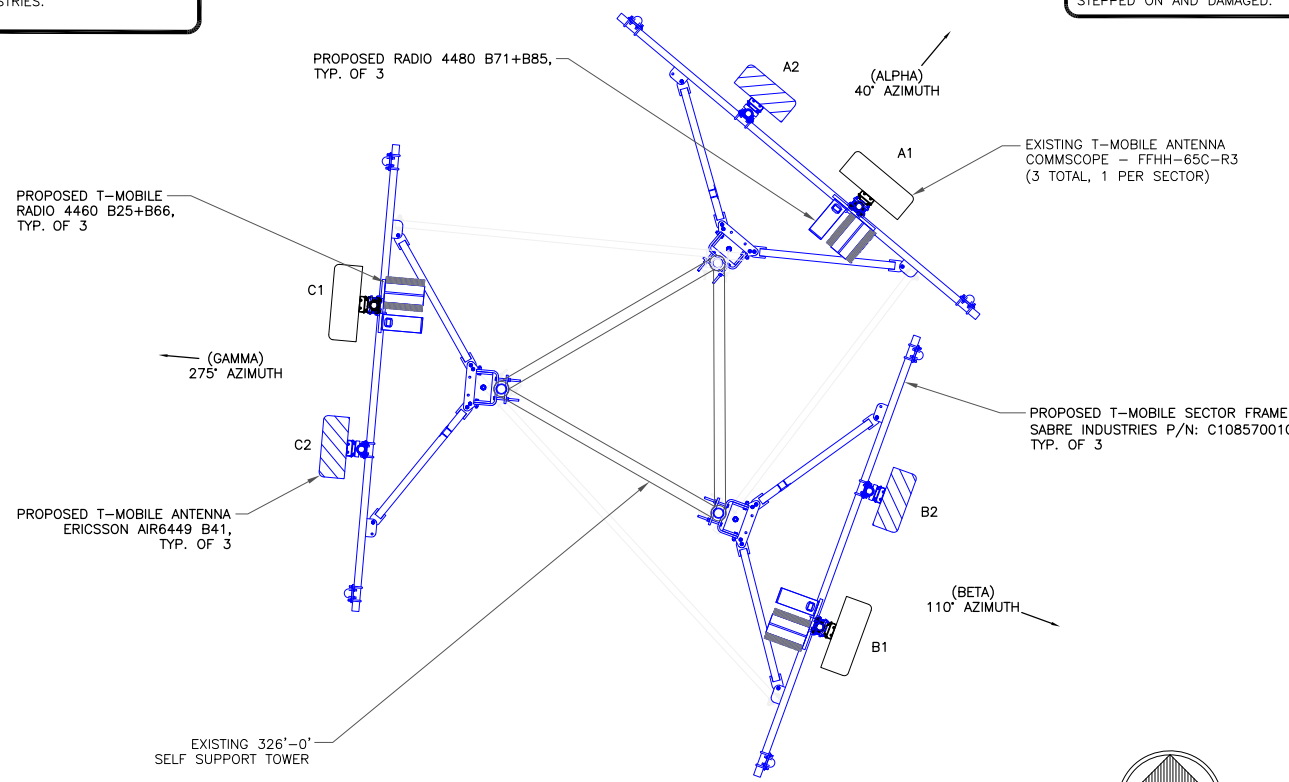


2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



THE REPLACEMENT MOUNTS CAN SUFFICIENTLY SUPPORT THE PROPOSED T-MOBILE LOADING PER MOUNT ANALYSIS PERFORMED BY SABRE INDUSTRIES.

NOTE:
ENSURE HYBRID CABLES ARE PROPERLY SECURED ATOP OF THE TOWER PER STANDARDS. DO NOT RUN JUMPERS ON TOP OF PLATFORM SO NOT TO BE STEPPED ON AND DAMAGED.



3 FINAL ANTENNA PLAN
SCALE: NOT TO SCALE



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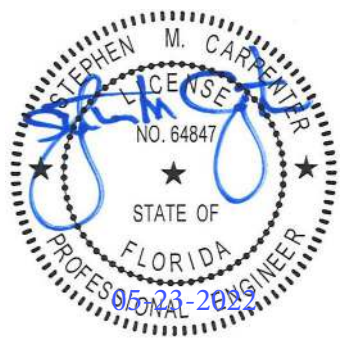
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FINAL ANTENNA SCHEDULE							
SECTOR	POS.	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A1	250'-0"	40°	COMMSCOPE	FFHH-65C-R3	(1) RADIO 4460 B25+B66 (1) RADIO 4480 B71+B85	HYBRID TRUNK 6/24 4AWG 90M
ALPHA	A2	250'-0"	40°	ERICSSON	AIR6449 B41 (ACTIVE ANTENNA - MASSIVE MIMO)	--	SHARED

BETA	B1	250'-0"	110°	COMMSCOPE	FFHH-65C-R3	(1) RADIO 4460 B25+B66 (1) RADIO 4480 B71+B85	HYBRID TRUNK 6/24 4AWG 90M
BETA	B2	250'-0"	110°	ERICSSON	AIR6449 B41 (ACTIVE ANTENNA - MASSIVE MIMO)	--	SHARED

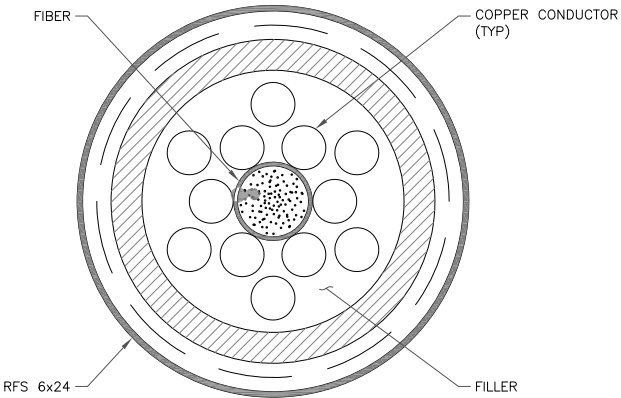
GAMMA	C1	250'-0"	275°	COMMSCOPE	FFHH-65C-R3	(1) RADIO 4460 B25+B66 (1) RADIO 4480 B71+B85	HYBRID TRUNK 6/24 4AWG 90M
GAMMA	C2	250'-0"	275°	ERICSSON	AIR6449 B41 (ACTIVE ANTENNA - MASSIVE MIMO)	--	SHARED

FINAL CABLE SCHEDULE			
STATUS	CABLE TYPE	SIZE	QUANTITY
NEW	HYBRID	6/24 4AWG	3
CABLE QUANTITY			3

67E5A998E PROPOSED ANTENNA LOADING SUMMARY				
EXISTING QUANTITY	REMOVE QUANTITY	EQUIPMENT TYPE	ADD QUANTITY	TOTAL QUANTITY
3	0	PANEL ANTENNA	6	6
3	3	HIGH CAP HYBRID CABLES	0	0
3	3	AHLOA	0	0
3	3	FXFC	0	0
3	3	COVP	0	0
0	0	HYBRID TRUNK 6/24 4AWG 90M	3	3
0	0	RADIO 4480 B71+B85	3	3
0	0	RADIO 4460 B25+B66	3	3

1 FINAL ANTENNA AND CABLE SCHEDULE
SCALE: NOT TO SCALE

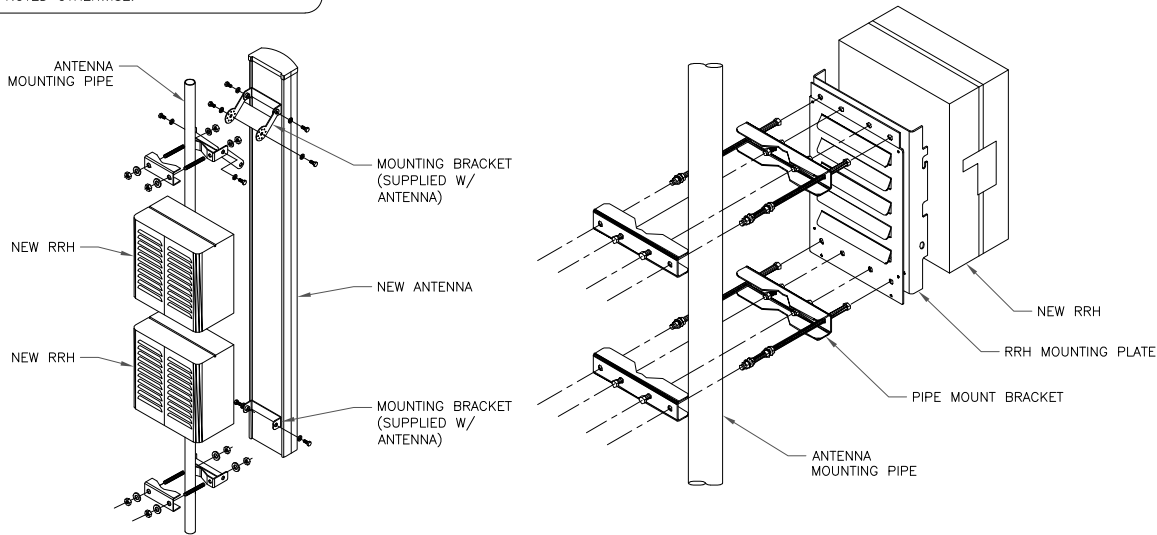
PARAMETER	VALUE
NOMINAL DIAMETER (INCHES)	1.99
CROSS-SECTION AREA (SQUARE INCHES)	3.13
JACKET COLOR	BLACK
WEIGHT/LINEAR FOOT (POUNDS)	2.5



3 HYBRID CABLE DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



2 ANTENNA WITH RRHs MOUNTING DETAIL
SCALE: NOT TO SCALE

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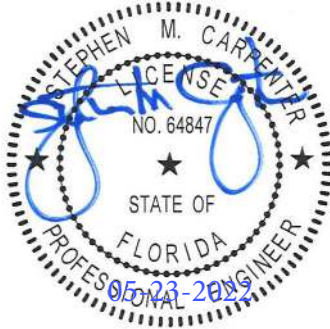
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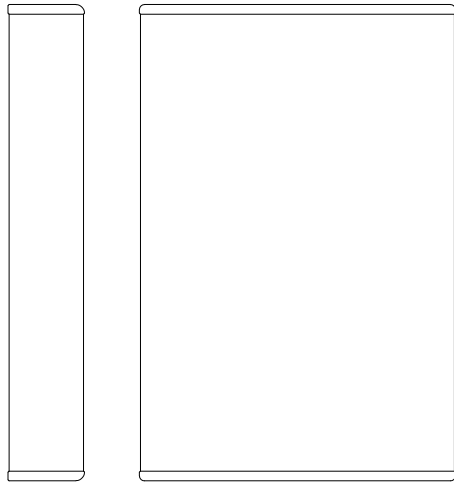
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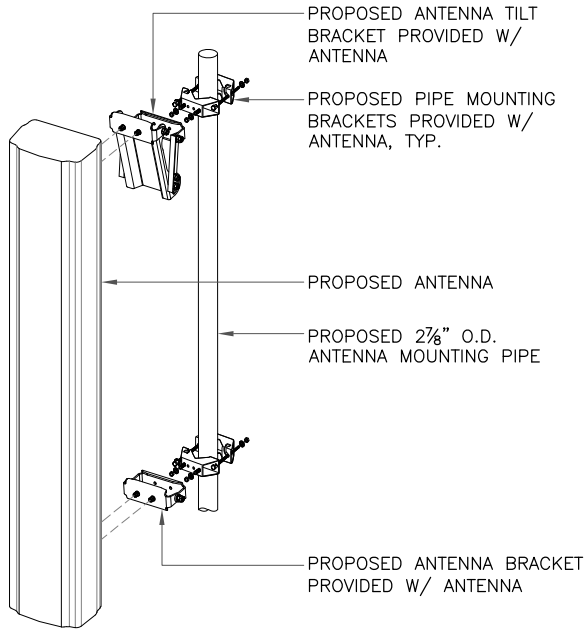
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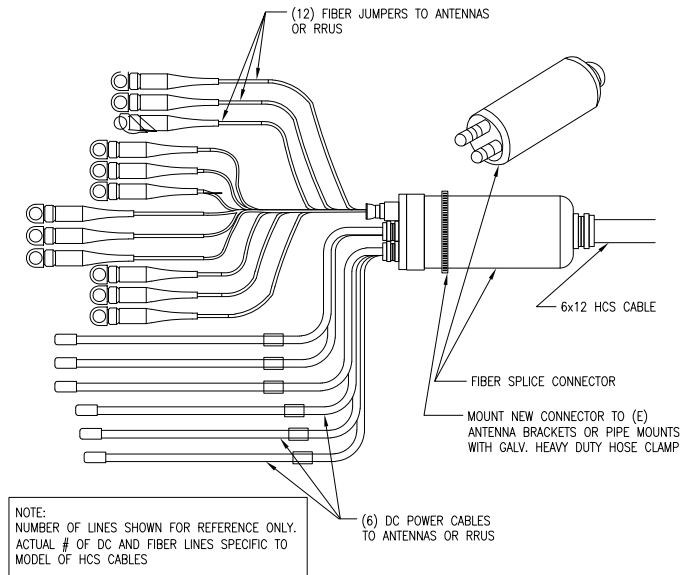


ERICSSON – AIR6449 B41
(ACTIVE ANTENNA – MASSIVE MIMO)
WEIGHT (WITHOUT MOUNTING HARDWARE): 101.6 LBS
SIZE (HxWxD): 33.1x20.5x8.5 IN.

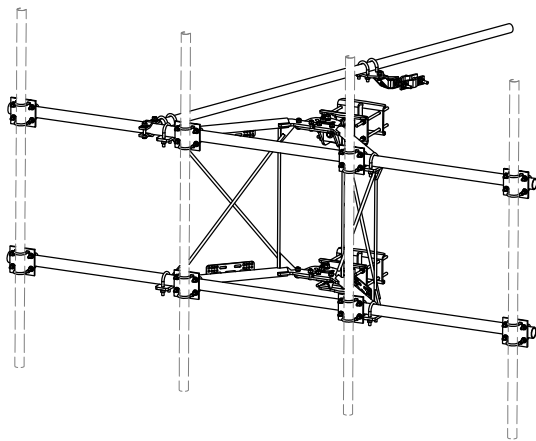
1 ERICSSON – AIR6449 B41
SCALE: NOT TO SCALE



2 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



3 HYBRID TRUNK 6/24 4AWG
SCALE: NOT TO SCALE



4 SABRE INDUSTRIES– C10857001C
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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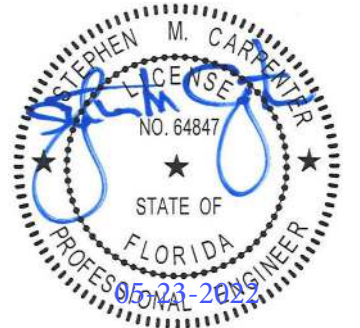
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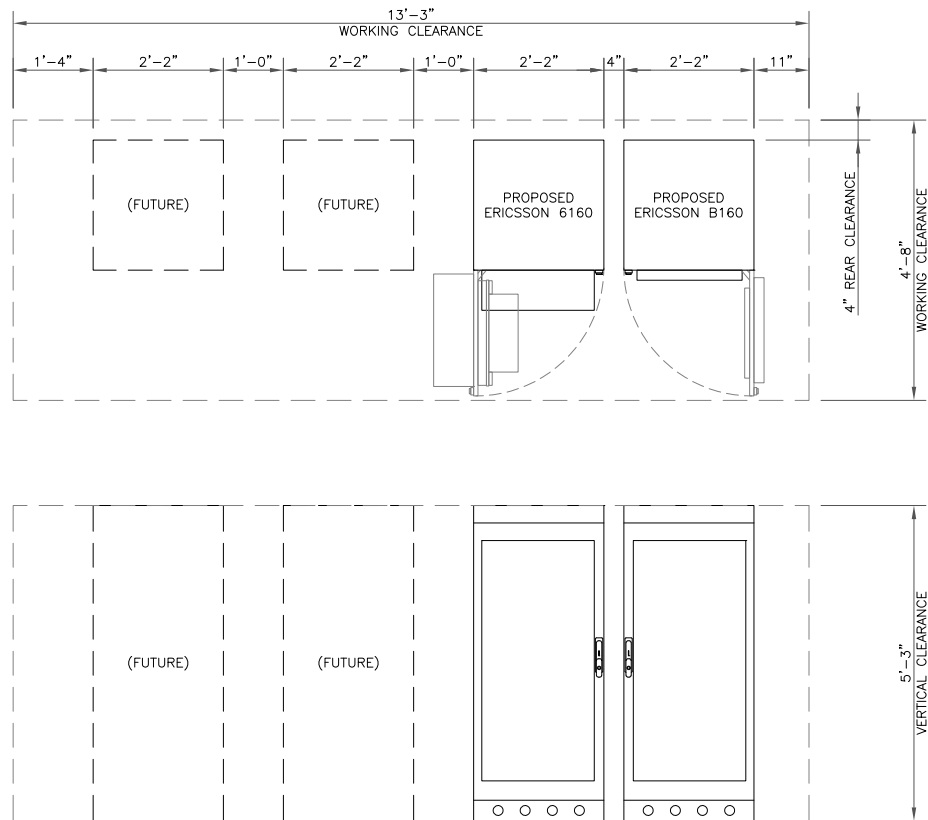
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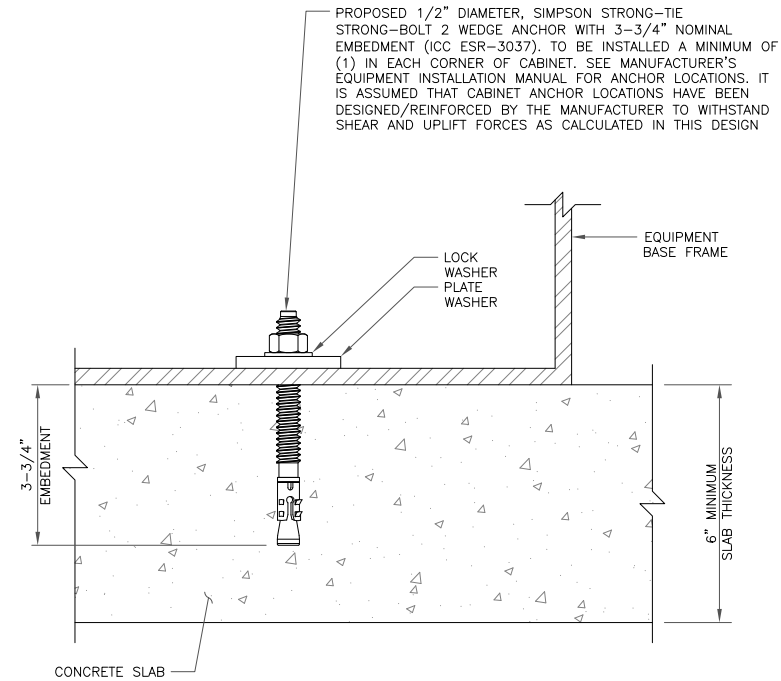
C-4

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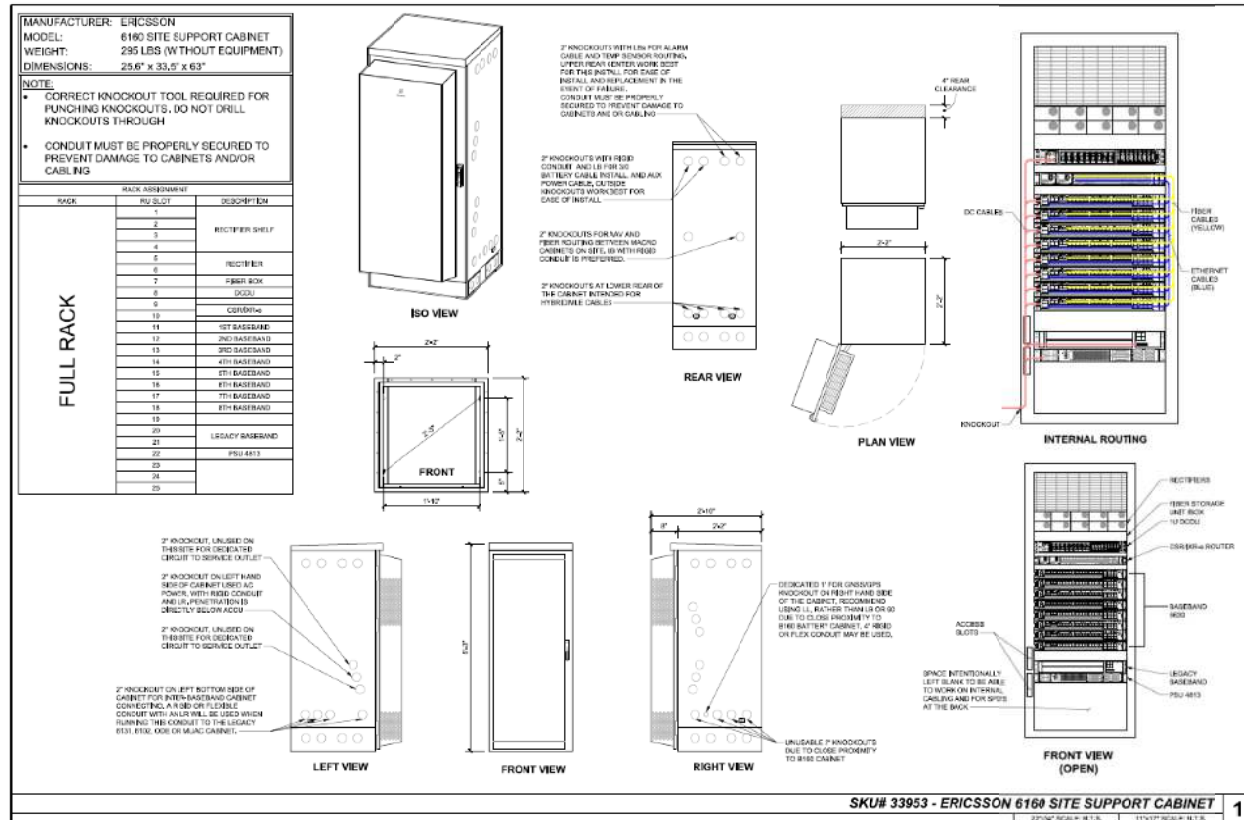
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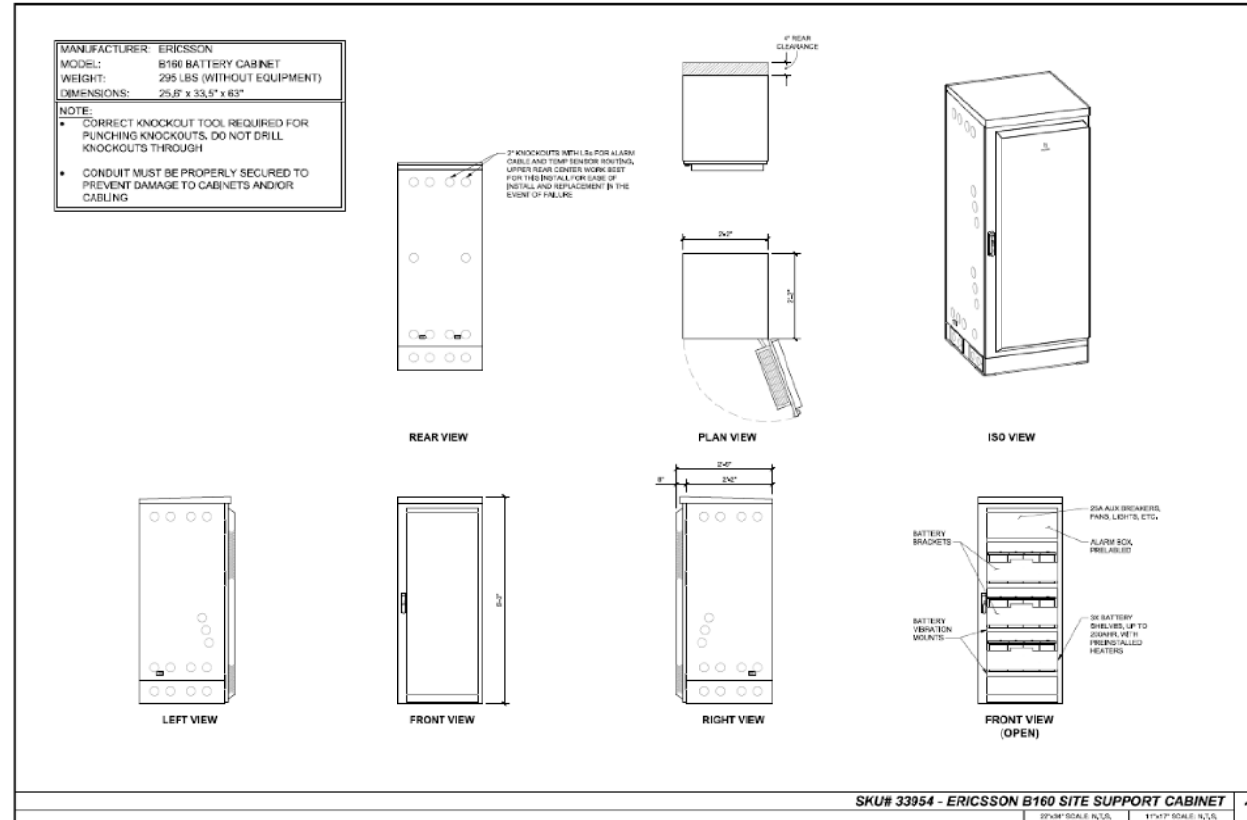
1 CABINET CONFIGURATION
SCALE: NOT TO SCALE



2 CABINET ANCHOR DETAIL
SCALE: NOT TO SCALE



3 ERICSSON - 6160
SCALE: NOT TO SCALE



4 ERICSSON - B160
SCALE: NOT TO SCALE

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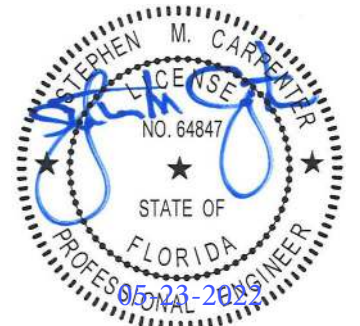
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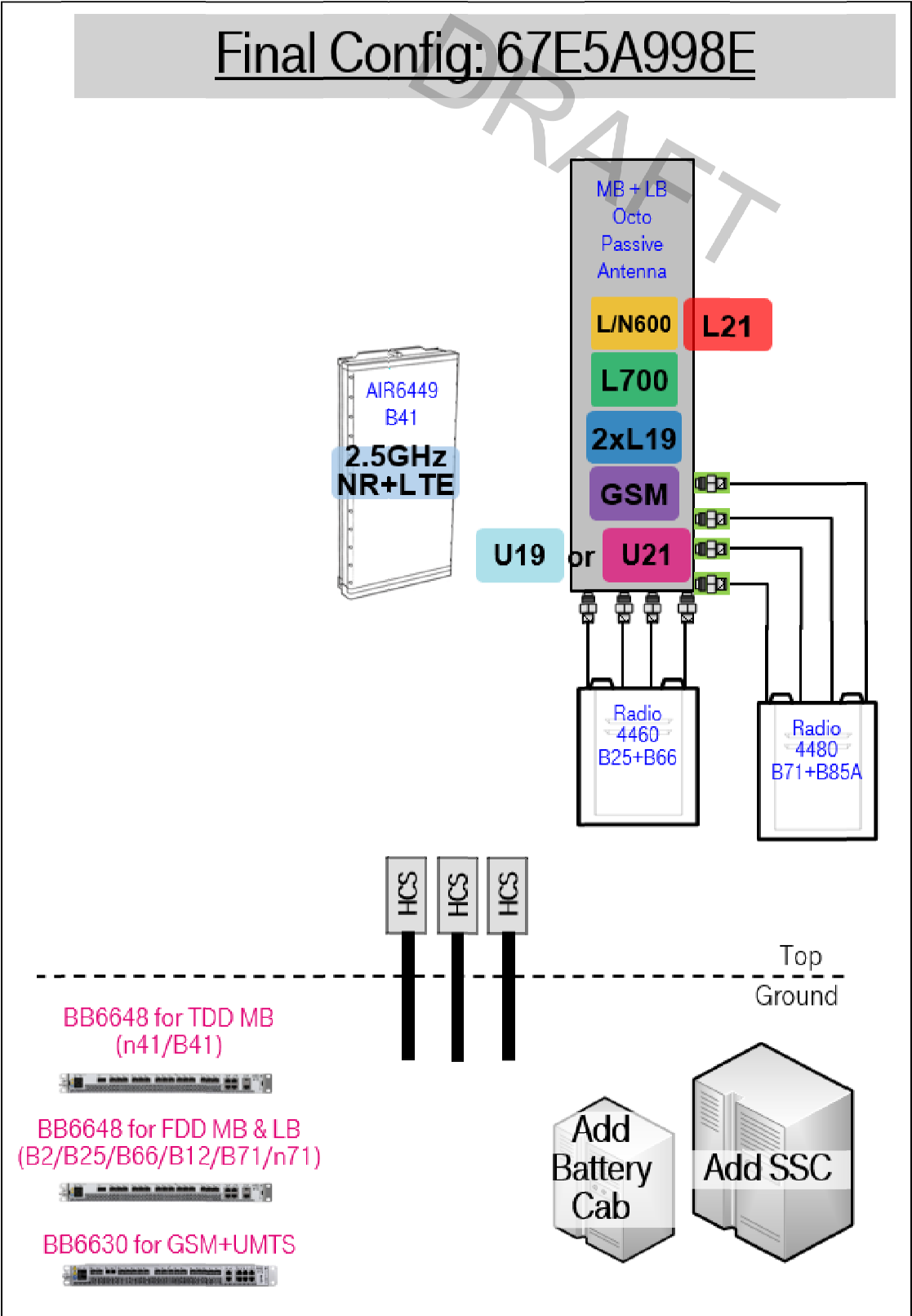
C-5

REVISION:

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Section 3 - Proposed Template Images

67E5998E_1xAIR+1Octa_(Excel)_RT or WT or SST.png



Notes:

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TAMPA, FL 33634

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T-MOBILE SITE NUMBER:

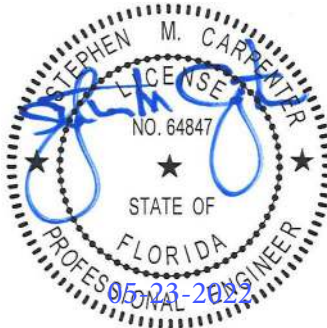
9JK0344B

12343 SW US HWY 27
FORT WHITE, FL 32038

EXISTING 326'-0'
SELF SUPPORT

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	QA
A	02/14/22	TS	PRELIMINARY	KS
B	04/13/22	TS	PRELIMINARY	KS
0	05/23/22	TS	ISSUED FOR CONSTRUCTION	KS



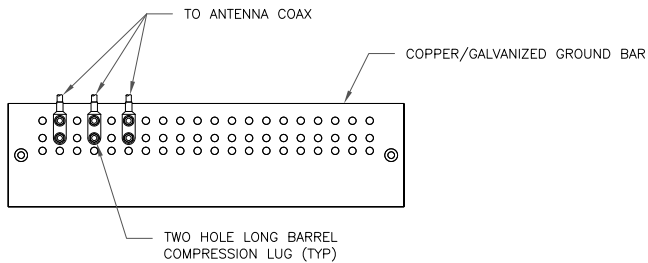
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C-6

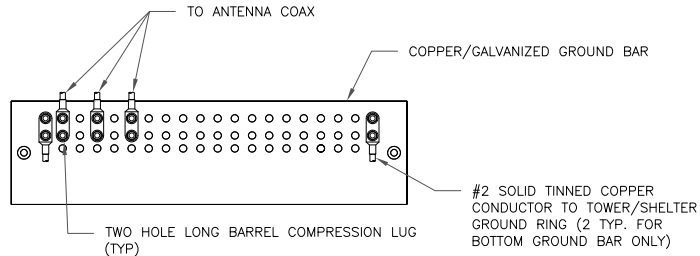
REVISION:

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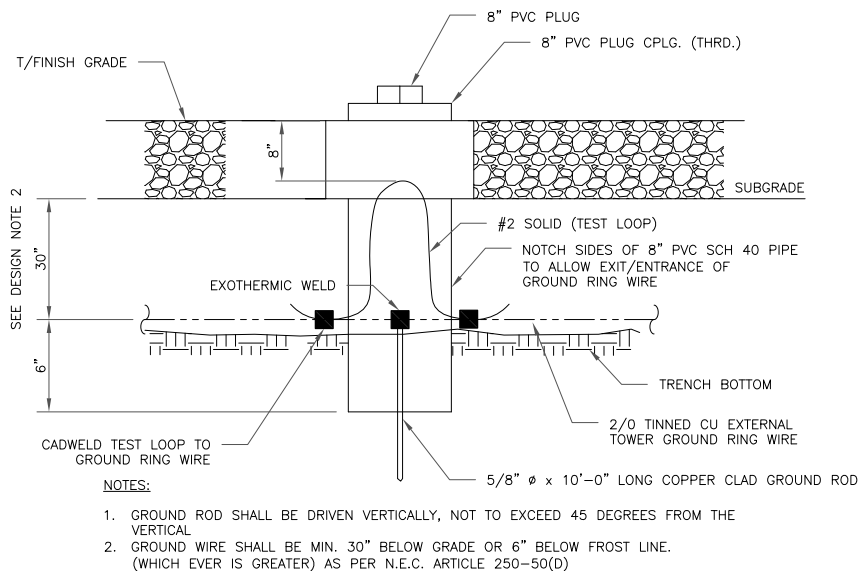
- NOTES:
- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 - EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 - GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

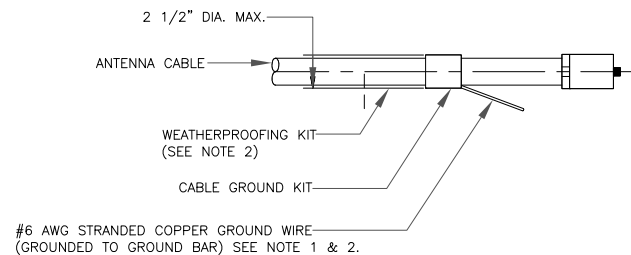


- NOTES:
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 - GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 - GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

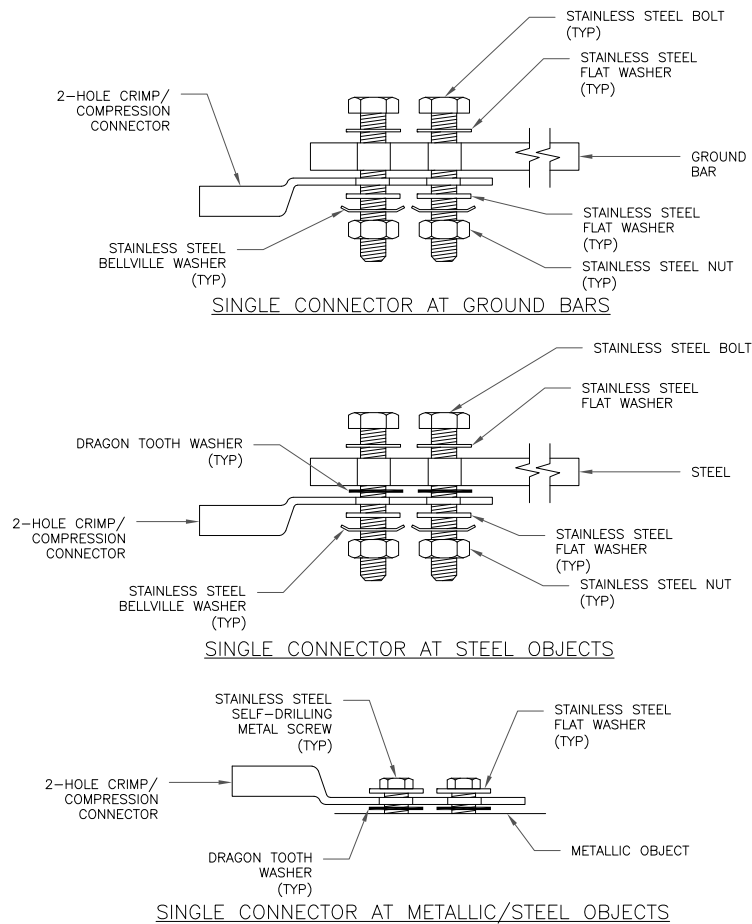


3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE

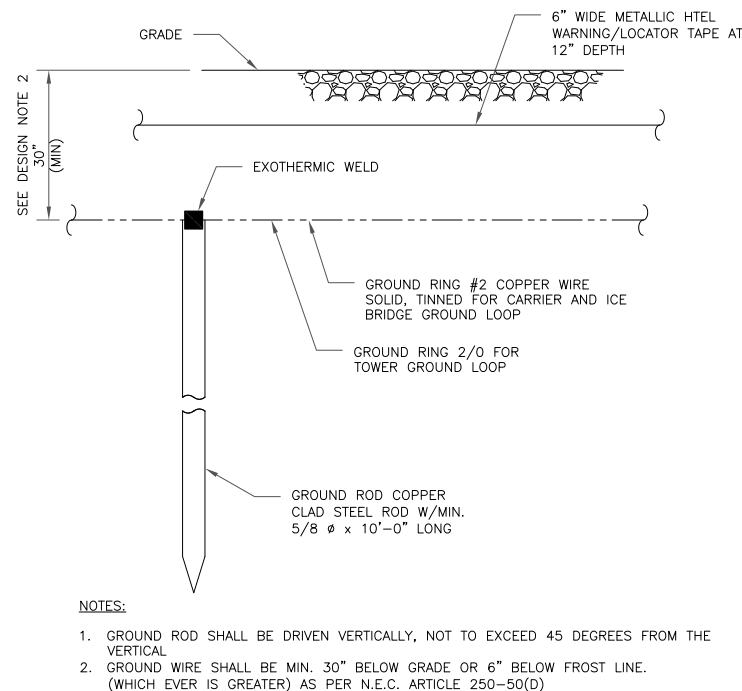


- GROUND KIT NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT AND WEATHER PROOFING KIT SHALL BE OF THE SAME TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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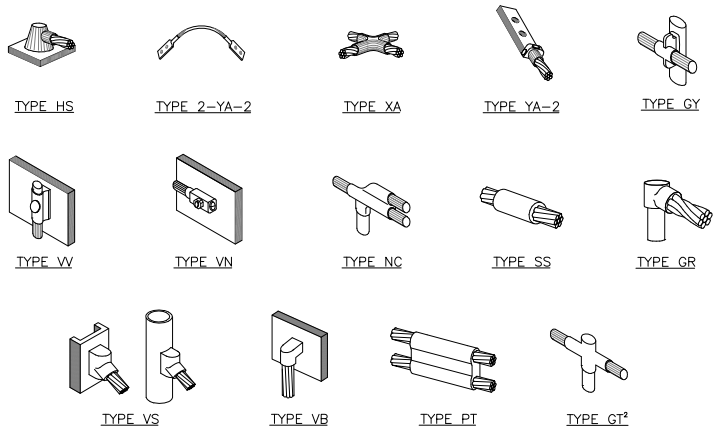
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G-1

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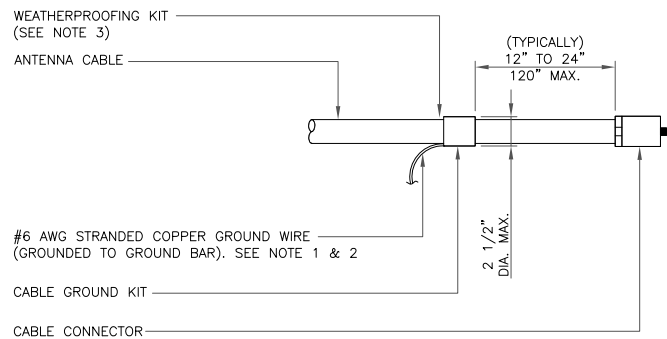
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NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

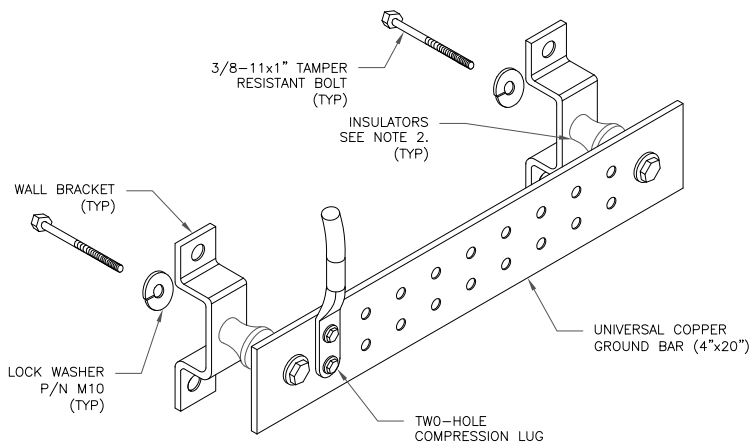
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

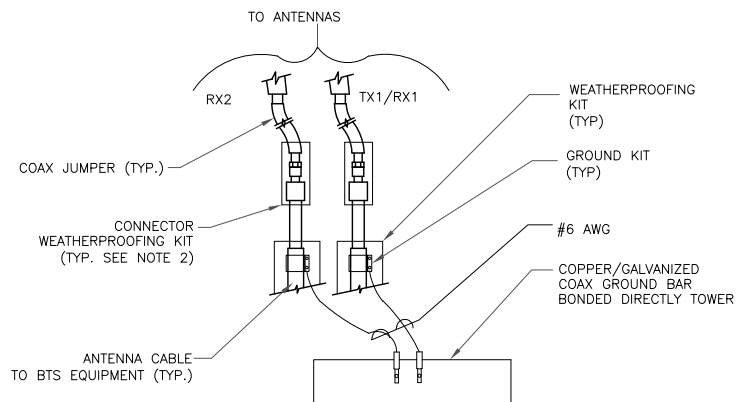
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON OWNER TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

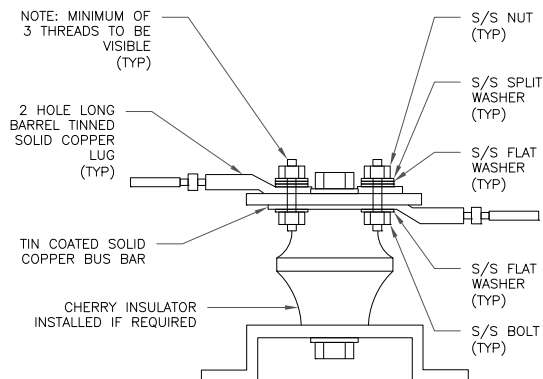
6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

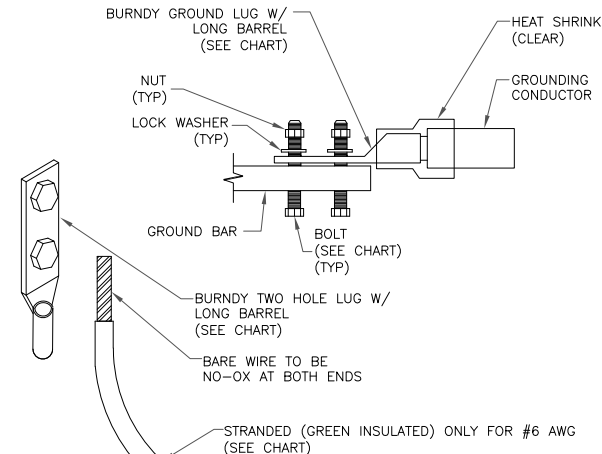
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

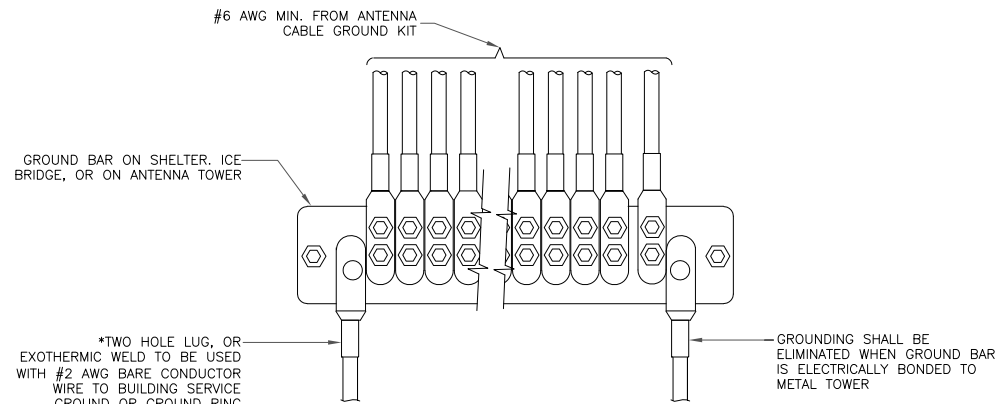
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



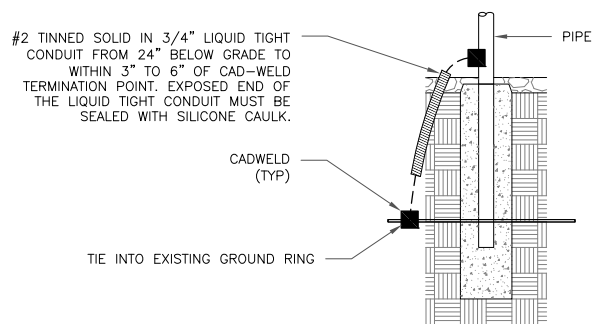
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

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