

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 504.4)			

*Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS							
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (W/ REDUCTION) *				
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction							
Including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

ACCESSIBLE DWELLING UNITS (SECTION 1107)							
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106)					
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR W/ 5' ACCESS	5' ACCESS	
TOTAL					

REQUIREMENTS (SECTION 1102.1)										
USE	SPACE	EXIST'G	NEW	REQ'D	LAVATORIES			SHOWERS	DRINKING FOUNTAINS	
					MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes No
Exit Signs: Yes No
Fire Alarm: Yes No
Smoke Detection Systems: Yes No
Carbon Monoxide Detection: Yes No

LIFE SAFETY PLAN REQUIREMENTS*

Life Safety Plan Sheet #: _____

Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if no)
 Exterior wall opening area with respect to
 Occupancy Use for each area as it re^d .1.2)
 Occupant loads for each area
 Exit access travel distance
 Common path of travel
 Dead end lengths (.
 Clear exit widths for
 Maximum calculated oc
 Actual occupant load for
 A separate schematic plan is it door can accommodate based on egress width (1005.3)
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: Select one

Exempt Building: Select one Provide code or statutory reference: _____

Climate Zone: Select one

Method of Compliance: Select one
(If "Other" specify source here) _____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each asse

Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (wind
U-Value of

Walls below grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____



SBA COMMUNICATIONS CORP.
5900 BROKEN SOUND PKWY NW
BOCA RATON, FL 33487



P. MARSHALL & ASSOCIATES

LOCATION:
106 J R LANE
BROADWAY, NC 27505

SBA:
BROADWAY
NC01660-B

T-MOBILE:
SBA/BROADWAY CO
5RA0319A

SITE TYPE:
250' SELF-SUPPORT
T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

SITE COORDINATES
LAT: 35.43419444
LONG: -79.04269444

DRAWN: RSW
CHECKED: PWM
JOB#: 21SBATNCM-0082

APPENDIX B



SBA COMMUNICATIONS CORP.
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LOCATION:

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DRAWN: RSW

CHECKED: PWM

JOB#: 21SBATNCM-0082

APPENDIX B

T-1C

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN**

(PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)

DESIGN LOADS:

Importance Factors: Wind (I_w) _____
Snow (I_s) _____
Seismic (I_e) _____

Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor _____

Ground Snow Load: _____ psf

Wind Load: Basic Wind _____ (-7)
Exposure _____

SEISMIC DESIGN CATEGORY

Provide the following Seismic

Occupancy Category: I II III IV

Spectral Response Acceleration: A B C D E F

Site Classification (ASCE 7-16): A B C D E F

Data Source: Field Test Presumptive Historical Data

Basic structural system (check one)

- Bearing Wall Dual w/Special Moment Frame
- Building Frame Dual w/Intermediate R/C or Special Steel
- Moment Frame Inverted Pendulum

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic

Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _____ psf

Presumptive Bearing capacity _____ psf

Pile size, type, and capacity _____

N/A NOT A BUILDING

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN**

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Select one

Lighting schedule (each fixture type)

lamp type required in fixture _____
number of lamps in fixture _____
ballast type used in the fixture _____
number of ballasts in fixture _____
total wattage per fixture _____
total interior wattage _____ (per building or space by space)
total exterior wattage _____

Additional Prescriptive Compliance

- 506.2.1 More Efficient Mechanical Equipment
- 506.2.2 Reduced Lighting Power Density
- 506.2.3 Energy Recovery Ventilation Systems
- 506.2.4 Higher Efficiency Service Water Heating
- 506.2.5 On-Site Supply of Renewable Energy
- 506.2.6 Automatic Daylighting Control Systems

N/A NOT A BUILDING

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN**

(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: _____
summer dry bulb: _____

Interior design conditions

winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load:

Building cooling load:

Mechanical Spacing Conditions:

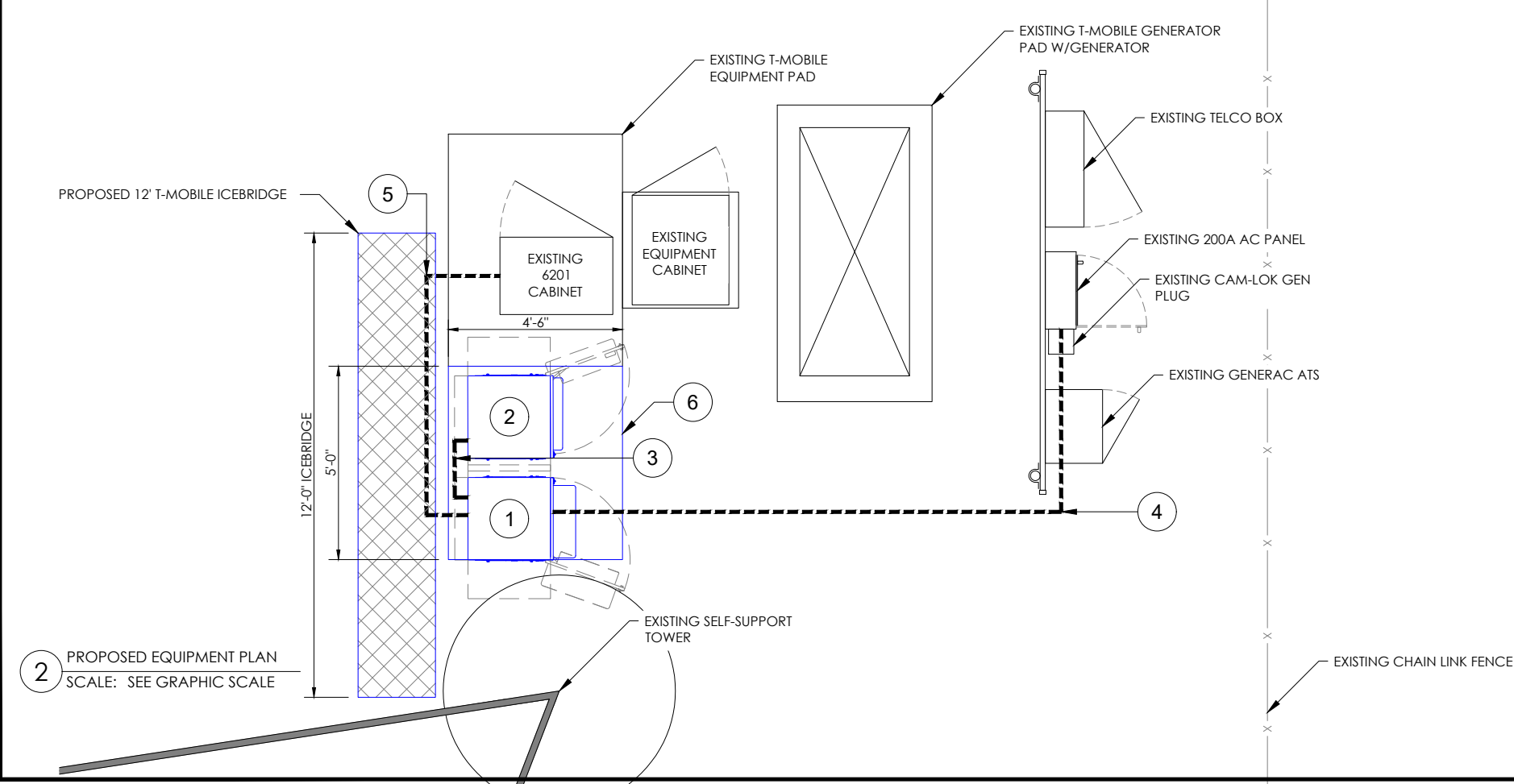
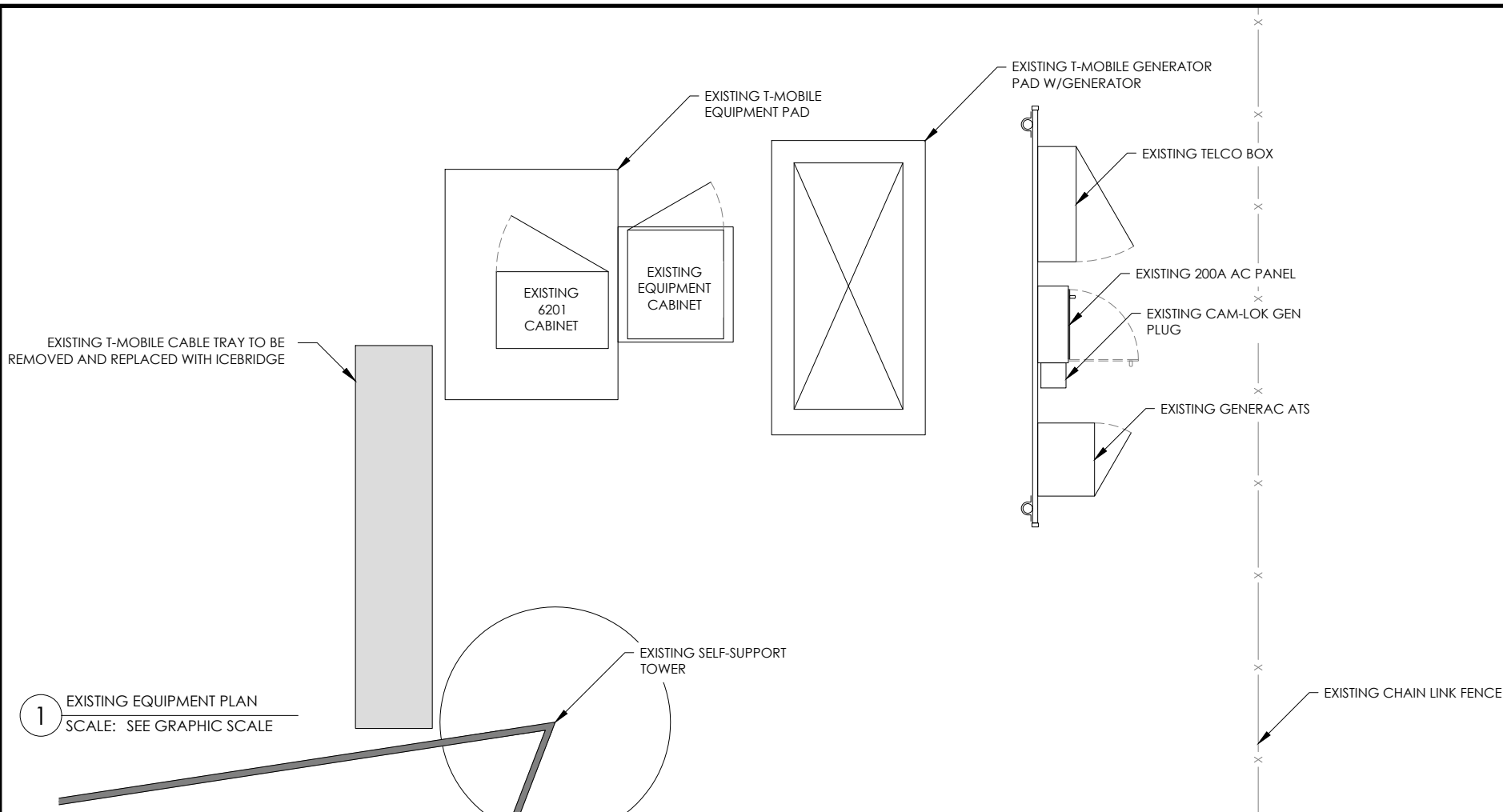
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____

Boiler
Size category. If oversized, state reason.: _____

Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

N/A NOT A BUILDING



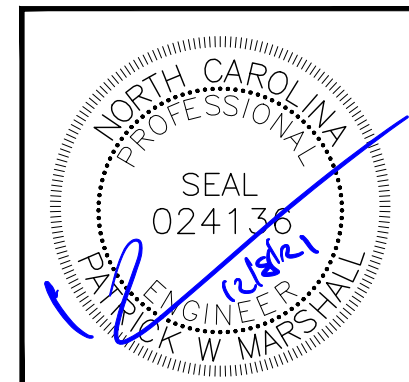
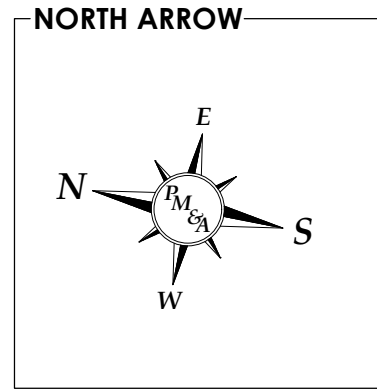
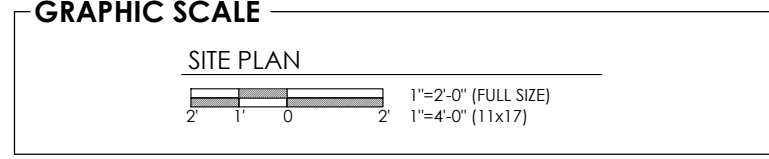
- KEYED NOTES**
1. PROPOSED ENCLOSURE 6160 CABINET ATTACHED TO PLATFORM AT EACH CORNER PER MANUFACTURER'S SPECIFICATIONS . GROUND CABINET WITH MECHANICAL 2-LUG CONNECTION & #2 TINNED SOLID COPPER IN 3/4" NON METALLIC FLEX. CONDUIT TO EXISTING EQ. GROUND (TYP)
 2. PROPOSED ENCLOSURE B160 BATTERY CABINET ATTACHED TO PLATFORM AT EACH CORNER PER MANUFACTURER'S SPECIFICATIONS. GROUND CABINET WITH MECHANICAL 2-LUG CONNECTION & #2 TINNED SOLID COPPER IN 3/4" NON METALLIC FLEX. CONDUIT TO EXISTING EQ. GROUND. (TYP)
 3. PROPOSED (2) 2" RIGID CONDUIT WITH PULLSTRINGS FROM PROPOSED ENCLOSURE 6160 CABINET TO PROPOSED ENCLOSURE B160 BATTERY CABINET.
 4. PROPOSED (1) 2" NONFLEX CONDUIT FROM EXISTING PPC TO PROPOSED ENCLOSURE 6160 CABINET.
 5. PROPOSED (2) 2" NONFLEX CONDUITS FROM PROPOSED 6160 CABINET TO EXISTING 6201 CABINET.
 6. PROPOSED 4'-6" X 5'-0" CONCRETE PAD EXPANSION FOR PROPOSED EQUIPMENT CABINETS.

EQUIPMENT NOTE

THE CABINETS ARE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS TO MEET THE REQUIREMENTS OF THE CURRENT NFPA 37 EDITION 2018. CABINET CONSTRUCTION THAT PASSED A SIMULATED BRUSH FIRE TEST TO DEMONSTRATE COMPLIANCE TO TELCORDIA GR-487-CORE SECTION 3.39 FIRE RESISTANCE REQUIREMENT R3-265. REFER TO THE NATIONAL TECHNICAL SYSTEMS (NTS) REPORT NO. PR067628-GR487.

CONDUIT NOTE

UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT (MEET NEMA TC2 - 1990). EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT BEFORE RISING ABOVE GRADE. PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LB. TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 24" RADIUS. RGS CONDUITS, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. LIQUIDTIGHT FLEX METAL CONDUIT (LFMC) IS ACCEPTABLE ABOVE GRADE, AS REQUIRED AND NECESSARY. CONDUITS MUST BE CONTINUOUS THROUGH THE STUB-UP AREA.



T-Mobile

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PM&A
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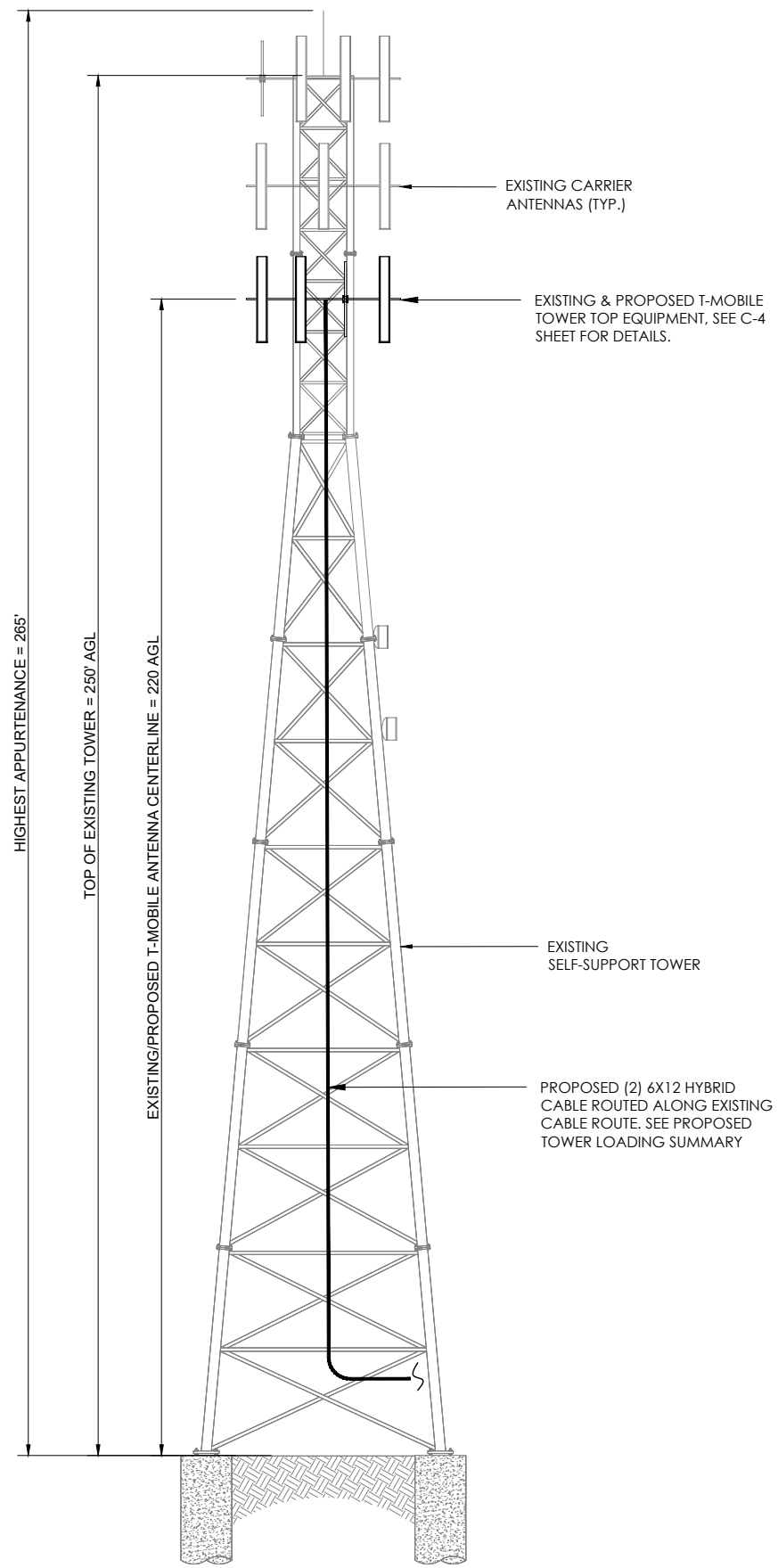
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EQUIPMENT PLAN

C-2



TOWER ELEVATION
NOT TO SCALE

GENERAL NOTES

1. REFER TO TOWER STRUCTURAL ANALYSIS FOR PROPOSED ANTENNA CABLE LOADING DETAILS
2. TOWER ELEVATION SHOWN IS NOT DRAWN TO SCALE AND IS ONLY INTENDED FOR REFERENCE PURPOSES. REFER TO ORIGINAL TOWER DESIGN FOR ADDITIONAL INFORMATION.
3. ALL TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED.
4. ALL HARDWARE ASSEMBLE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
5. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND OF QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
6. CONTRACTOR TO REFER TO THE MOUNT ANALYSIS FOR THIS PROJECT.

FINISH NOTES:

TOWER-	GALVANIZED
TOWER MOUNTS-	GALVANIZED
ANTENNA-	NEUTRAL (MANUFACTURER FINISH)
FOUNDATIONS-	UNPAINTED CONCRETE
ICE BRIDGE-	GALVANIZED
CABLES-	BLACK
BASE CABINETS/EQUIPMENT-	NEUTRAL (MANUFACTURER FINISH)

TOWER LOADING SUMMARY

EXISTING	REMOVE	EQUIPMENT	ADD	TOTAL
6	3	ANTENNA	6	9
3	3	TMA	0	0
3	0	RADIOS	3	6
0	0	COAX	0	0
1	0	HYBRIDS	2	3



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SITE TYPE:
**250' SELF-SUPPORT
T-MOBILE ANCHOR**

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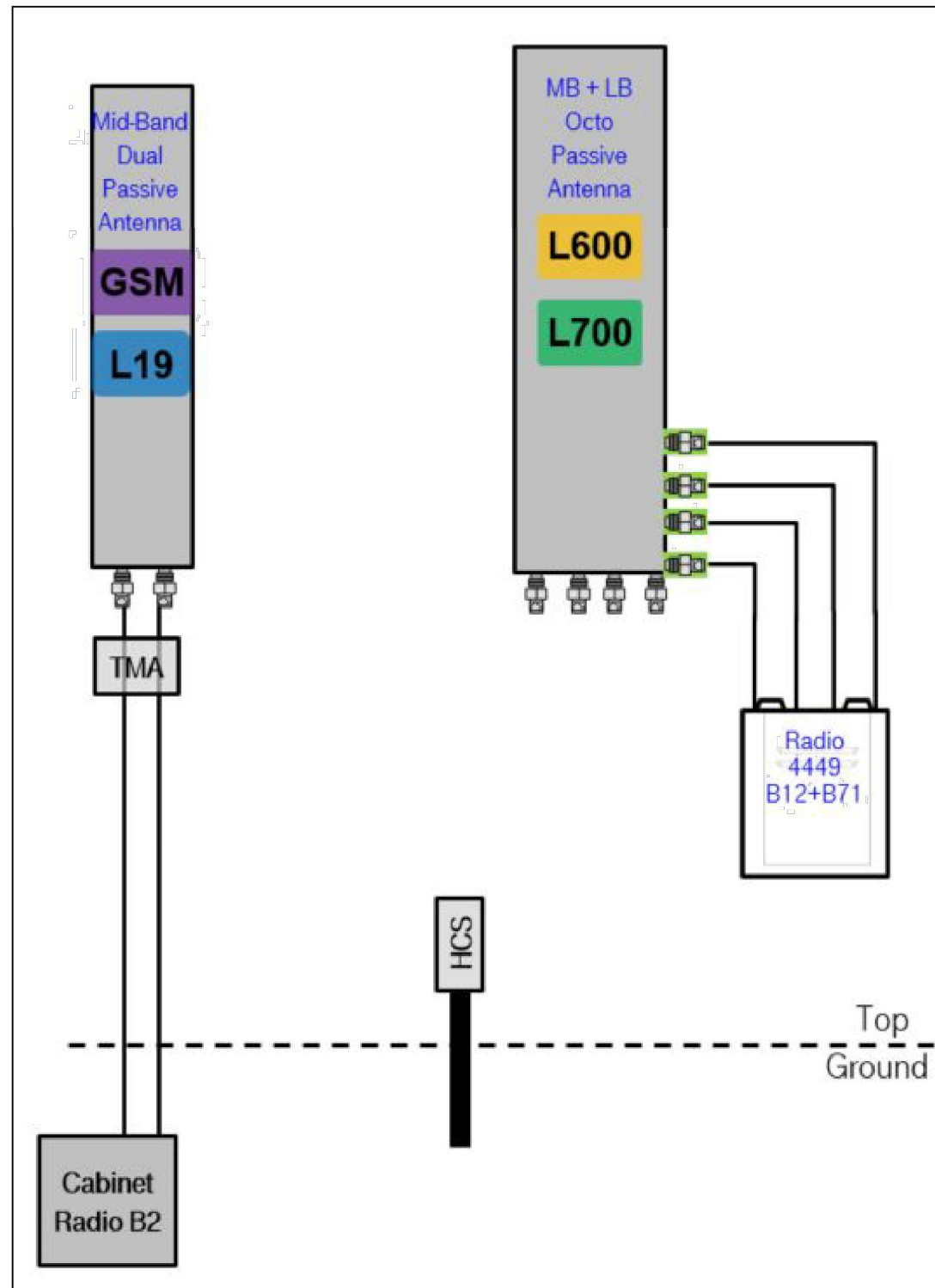
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TOWER ELEVATION

PROPOSED RF CONFIGURATION: 67D5A998E ODE + 6160

9/17/21, 3:29 PM

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Notes:

1 RFDS PLUMBING DIAGRAM
SCALE: NOT TO SCALE

Coax Color Coding

- Antennas will be labeled (back of antenna view) Right to left: X ports
- Coax/jumper lines will be identified by sector color and by number of bands around the coax/jumper

SECTOR A	RED
SECTOR B	GREEN
SECTOR C	BLUE
SECTOR D	YELLOW
SECTOR E	WHITE
SECTOR F	PURPLE
LMU	BROWN + SECTOR COLOR BANDS (1 & 2)
FIBER ID	GRAY
UNUSED COAX	PINK
MICROWAVE	ORANGE
DWE T-1'S + GPS DOWNLINK CABLE	ID W/LABEL MAKER

COLOR CODING NOTES:

- color GSM
- color UMTS 1900
- color UMTS AWS
- color LTE
- color FIBER CABLE

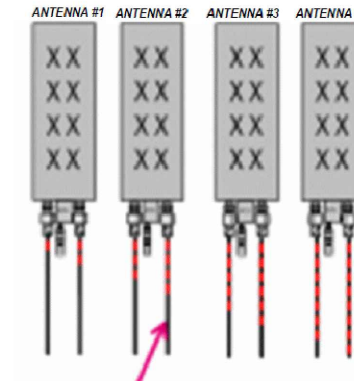


2 COAX COLOR CODING
SCALE: NOT TO SCALE

METALLIC TAG NOTES:

- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN (3) THREE FEET
- CABLE LESS THAN (3) THREE FEET WILL HAVE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE
- TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER
- STANDARDIZED METALLIC TAG KIT WILL BE ASSEMBLED WITH TAGS ALREADY ENGRAVED TO ACCOMMODATE ALL CONFIGURATIONS.

FRONT OF THE ANTENNA



EXAMPLE: COAX WITH FOUR BANDS OF RED TAPE WILL REPRESENT ALPHA SECTOR AND THE 4TH PORT OF ANTENNA

ANTENNA AND COAXIAL CABLE SCHEDULE

- ALL ANTENNAS SHALL BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR SHALL COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH RF ENGINEER. ANTENNA DOWNTILT SHALL BE SET AND VERIFIED BY A SMART LEVEL.
- CONTRACTOR SHALL INSTALL COLOR CODE RINGS ON EACH OF THE HYBRID CABLES AND JUMPER CABLES WITH UV RESISTANT TAPE. ALL CABLE SHALL BE MARKED AT TOP AND BOTTOM WITH 2" COLOR TAPE OR STENCIL TAG. COLOR TAPE MAY BE OBTAINED FROM GRAYBAR ELECTRONICS.

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**PLUMBING
DIAGRAM**

C-5



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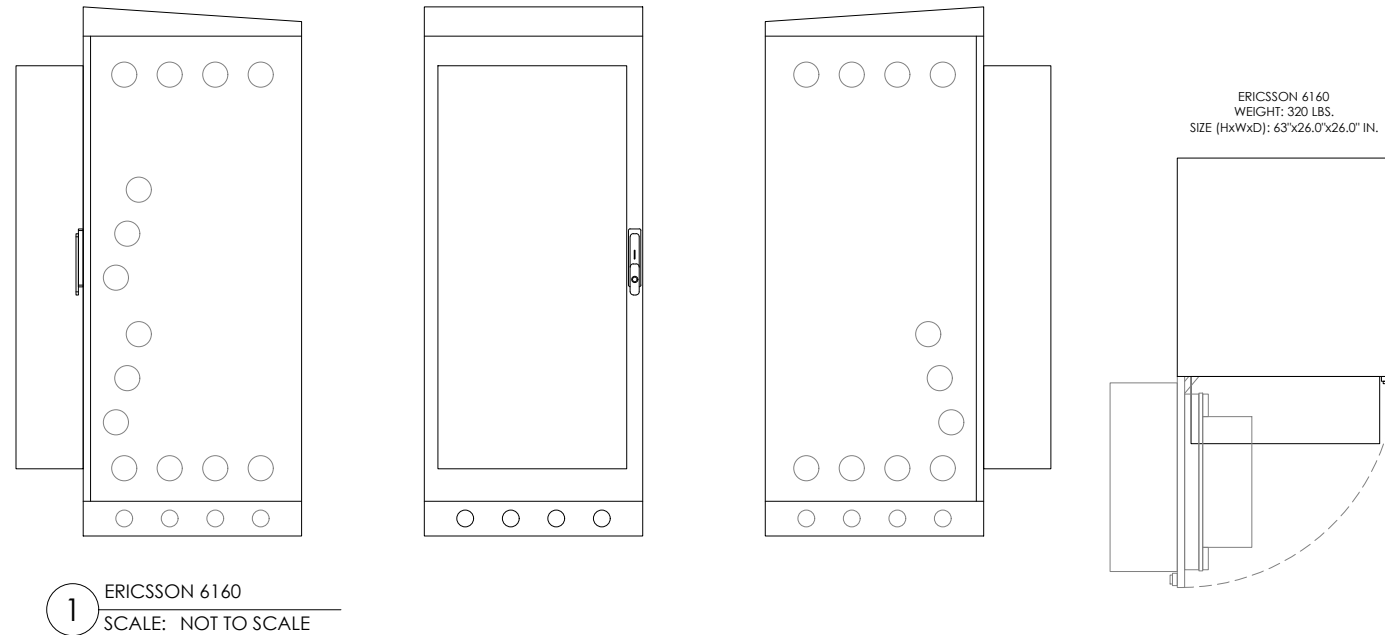
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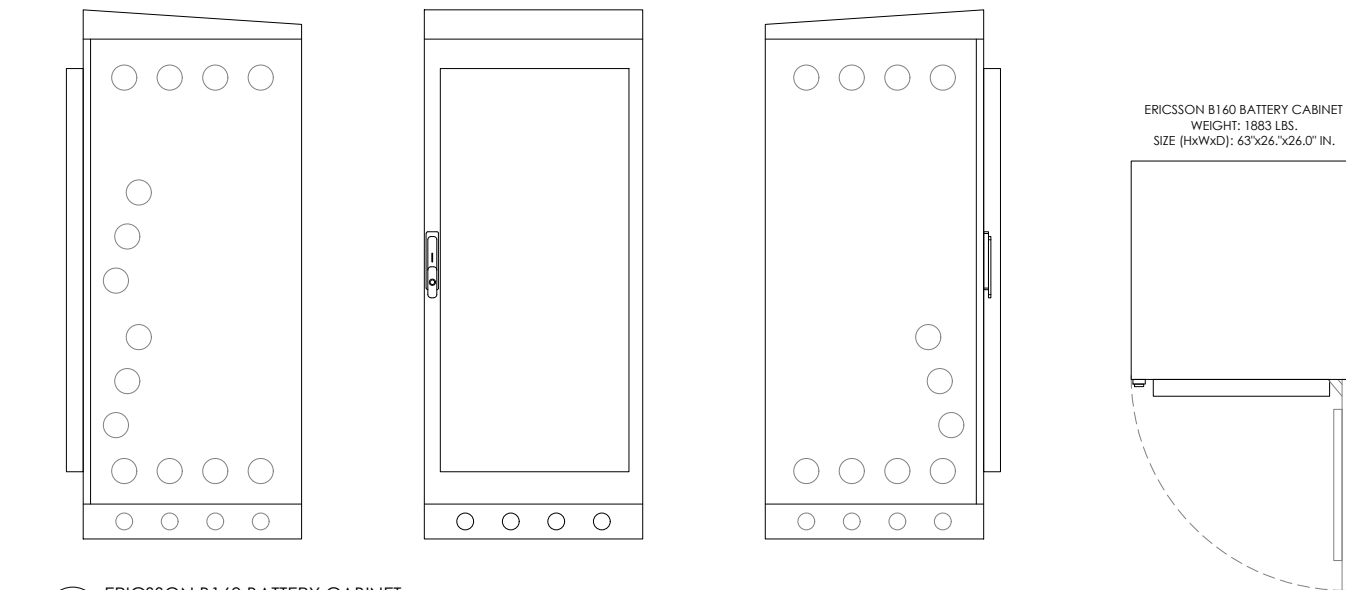
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CABINET
SPECS

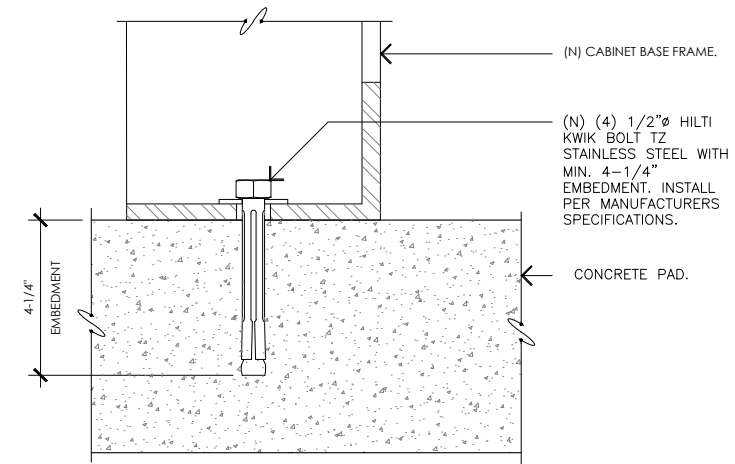
C-6



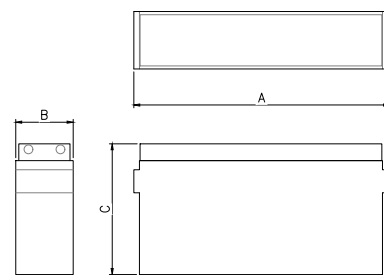
1 ERICSSON 6160
SCALE: NOT TO SCALE



2 ERICSSON B160 BATTERY CABINET
SCALE: NOT TO SCALE



3 CABINET ANCHORAGE DETAIL
SCALE: NOT TO SCALE



MODEL NUMBER	VOLTAGE	CAPACITY [AH]		NOMINAL DIMENSIONS				NOMINAL WEIGHT			
		8 HR TO 1.75 VPC @ 25°	10 HR TO 1.8 VPC @ 25°	INCHES		MILLIMETERS		LBS	Kg		
				A	B	C	A			B	C
NSB 190FT RED BATTERY	12	183 / 186 AH	187 / 190 AH	22.0	4.9	12.6	560	125	320	124.3	56.3

3 NORTHSTAR - NSB 190FT RED BATTERY
SCALE: NOT TO SCALE

ELECTRICAL DATA		
MODEL NUMBER	SHORT CIRCUIT CURRENT	INTERNAL RESISTANCE (mOhms)
NSB 190FT RED BATTERY	5000 A	2.8

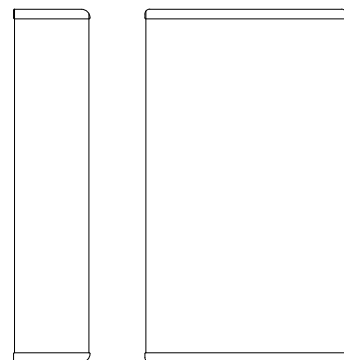
CHAPTER 12, SECTION 1206							
ELECTRICAL ENERGY STORAGE SYSTEM							
1206.2 SCOPE:							
STATIONARY STORAGE BATTERY SYSTEMS HAVING CAPACITIES EXCEEDING THE VALUES SHOWN IN TABLE 1206.2 SHALL COMPLY W/ SECTION 1206.2.1 THROUGH 1206.2.12.6, AS APPLICABLE.							
BATTERY STORAGE SYSTEM THRESHOLD QTY'S							
CATTERY TECHNOLOGY		CAPACITY ALLOWED					
LEAD ACID, ALL TYPES		70 kWh (252 MEGAJOULES)					
AH = VOLTAGE (AH)/1000							
VOLTS	AH	kWh	NO. OF BATTERIES	TOTAL kWh			
12	190	1000	2.28	12	27.36		
CONCLUSIONS:							
27.36	<	70 kWh	SECTION 1206.2 DOES NOT APPLY				
TOTAL BATTERY WEIGHT (12 BATTERIES):							1,491.6 LBS
TOTAL GALLONS - ELECTROLYTE & ACID (12 BATTERIES):							33.36

NSB 190FT RED BATTERY LEAD & ACID WEIGHTS (12-VOLT MODULE):			
ELECTROLYTE	WEIGHT	/KG	10.5
	/LBS		23.2
VOLUME	/LITERS		7.8
	/GALLONS		2.08
ACID	WEIGHT	/KG	4.8
	/LBS		10.5
VOLUME	/LITERS		2.6
	/GALLONS		0.7
LEAD	WEIGHT	/KG	17.9
	/LBS		39.4
LEAD OXIDE	VOLUME	/KG	23.3
	/LBS		51.2
TOTAL WEIGHT	WEIGHT	/KG	56.3
	/LBS		124.3

BATTERY CABINET NOTE

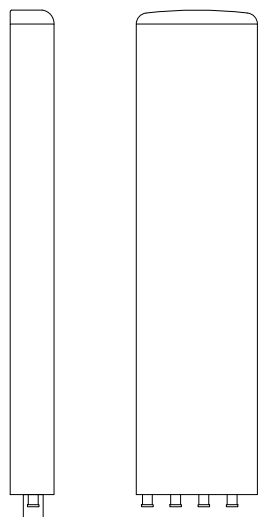
THE BATTERIES INSTALLED IN THE CABINET ARE VALVE REGULATED LEAD-ACID (VRLA) CELLS BATTERY STRINGS; NORTHSTAR NSB 190FT RED. ALL NORTHSTAR BATTERIES ARE COMPLIANT WITH: TELCORDIA SR4228, IEC 60896; BELLCORE GR-63-CORE, ISSUE 1; UL APPROVED AND UN2800 CERTIFIED. NORTHSTAR IS REGISTERED TO ISO 9001 AND ISO 14001. ERICSSON CABINET PROVIDES REQUIRED VENTILATION, SMOKE, SEISMIC & ADDITIONAL SIGNAGE TO MEET ALL IFC SECTION 608 REQUIREMENTS.





ERICSSON - AIR6449 B41	
WEIGHT (W/O MOUNTING HARDWARE)	104.0 LBS
SIZE (H x W x D)	33.1 x 20.6 x 8.60 IN.
MOUNTING HARDWARE P/N	TBD
RATED WIND VELOCITY	TBD

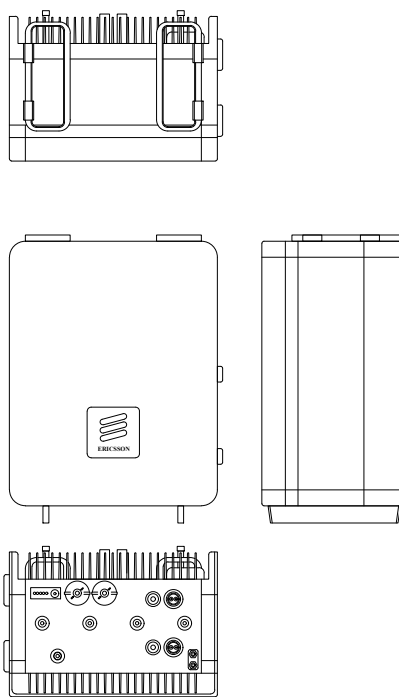
1 ERICSSON - AIR6449 B41
SCALE: NOT TO SCALE



RFS - APXVLL19P_43-C-A20	
WEIGHT (W/O MOUNTING HARDWARE)	40.9 LBS
SIZE (H x W x D)	75.8 x 11.3 x 4.6 IN.
MOUNTING HARDWARE P/N	TBD
RATED WIND VELOCITY	150 MPH

2 APXVLL19P_43-C-A20
SCALE: NOT TO SCALE

ERICSSON - RADIO 4460	
WEIGHT (W/O MOUNTING HARDWARE)	109.0 LBS
SIZE (H x W x D)	17.0 x 15.1 x 11.9 IN.



3 ERICSSON RADIO 4460
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

T-Mobile



SBA COMMUNICATIONS CORP.
5900 BROKEN SOUND PKWY NW
BOCA RATON, FL 33487



LOCATION:
106 J R LANE
BROADWAY, NC 27505
SBA:
BROADWAY
NC01660-B
T-MOBILE:
SBA/BROADWAY CO
5RA0319A
SITE TYPE:
250' SELF-SUPPORT
T-MOBILE ANCHOR

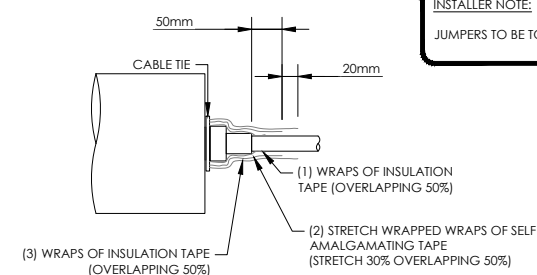
REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

SITE COORDINATES
LAT: 35.43419444
LONG: -79.04269444

DRAWN: RSW
CHECKED: PWM
JOB#: 21SBATNCM-0082

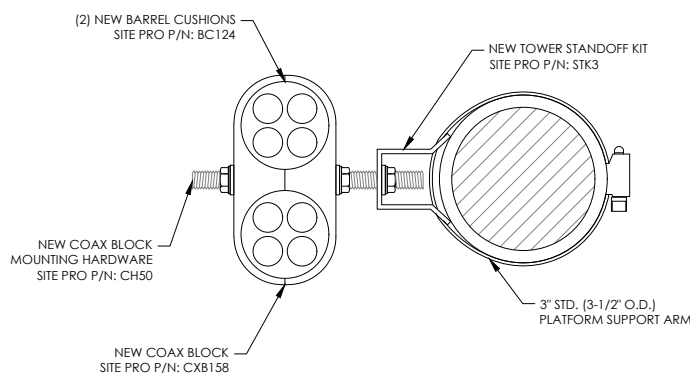
ANTENNA
SPECS

C-7



INSTALLER NOTE:
JUMPERS TO BE TORQUED TO 221.27 IN./LBS.

6 RF JUMPER CONNECTION
SCALE: NOT TO SCALE



7 RF JUMPER DETAIL
SCALE: NOT TO SCALE

Macro Basebands

BASEBAND 6630

- Highest capacity in smallest form factor
- Lowest power consumption
- Supports all major technology

CARRIER CAPABILITIES

GSM, WCDMA, LTE, G+W, G+L, W+L, G+W+L

DETAILS

- Optimized for main-remote configurations
- 19 inch wide, 1U high, ~352mm deep
- 15 SFP/SFP+ for CPRI inter-connect to Radio Units reducing the need for Baseband RS03
- 2 optical 10Gbps SFP/SFP+ ports and 2 electrical 1Gbps RJ45 ports
- 8 external alarm ports
- Dual 48V DC power feeding
- Self-contained environmental control & field replaceable fan unit
- Hardware prepared for NR (5G) and eCPRI
- Typical power consumption estimated to 123W (at 25C and typical load)

CONFIGURATION EXAMPLES

Up to 18 sectors with 20 MHz 4T4R TDD cells
Up to 9 sectors with 40 MHz 4T4R TDD cells



PORTS

- Power: 2 (48V)
- EC: RJ45
- LMT: RJ45
- Tx: 2 x 10G (SFP/SFP+) & 2 x 1G (RJ45)
- IDU: 2 x XCaDe
- CPRI: 15 SFP/SFP+
- Sync: RJ45
- Ext. Alarms: 8 (2 x RJ45)
- SAU: 1

8 ERICSSON BB 6630 / BB 6648
SCALE: NOT TO SCALE



Electrical Operating Limits	
Input Voltage	-38.0 – -58.5 VDC
Input Voltage, nominal	-48 VDC
Input Current, max	166 A; 30 A total for all four -48V inputs
Output Voltage, fixed	-58 VDC
Output Power, max.	2000 watts each
Environmental Operating Limits	
Temperature, operation	-40 – +60 °C
Temperature, storage	-40 – +55 °C
Temperature, transport	-40 – +70 °C
Humidity, operation and storage	5% – 95%
Altitude, operation and storage	0 – 4000 m
Cooling	Internal fans
Vibration	ETS300019-2
Shock	ETS300019-2
Drop	ETS300019-2
EMC	FCC Part 15
Safety	UL 62368-1
Noise	< 6.8 bel sound power
Lightning Protection	4 kA; 10/350 µs; 20 kA, 8/20 µs
Fuse Options	30 A, 40 A, 50 A
Mechanical Specification	
Weight	< 7.8 kg (17.2 lb)
Dimensions (H x W x D)	44 x 483 x 363 mm (1.7' x 19.0' x 14.3') (include brackets, cover)

9 ERICSSON PSU 48 13 VOLTAGE BOOSTER
SCALE: NOT TO SCALE

LOCATION:
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BROADWAY, NC 27505**
SBA:
**BROADWAY
NC01660-B**
T-MOBILE:
**SBA/BROADWAY CO
5RA0319A**
SITE TYPE:
**250' SELF-SUPPORT
T-MOBILE ANCHOR**

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JOB#: 21SBATNCM-0082

**PAD EXPANSION
DETAILS**

REINFORCED CONCRETE NOTES

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185, IBC 2006.
- 2. PRECAST CONCRETE FOR SLABS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE TESTING IS NOT REQUIRED UNLESS NOTED OTHERWISE OR REQUIRED BY THE JURISDICTION HAVING AUTHORITY.

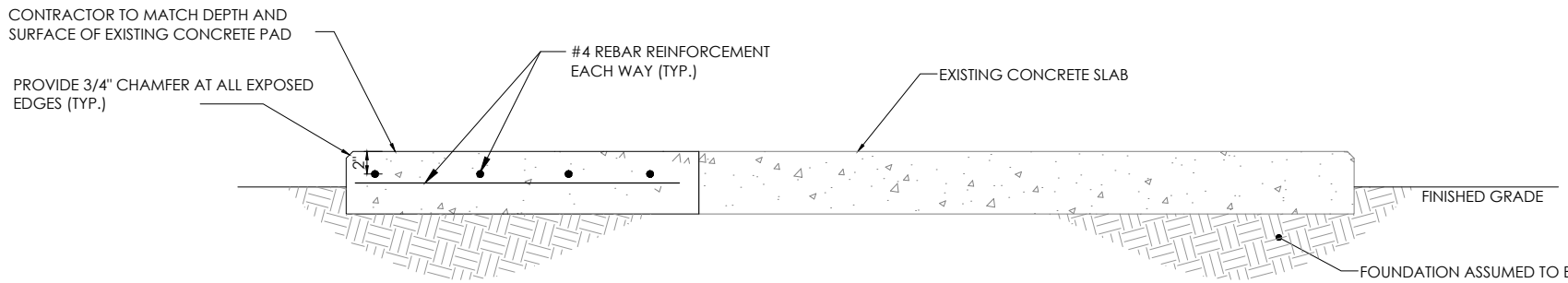
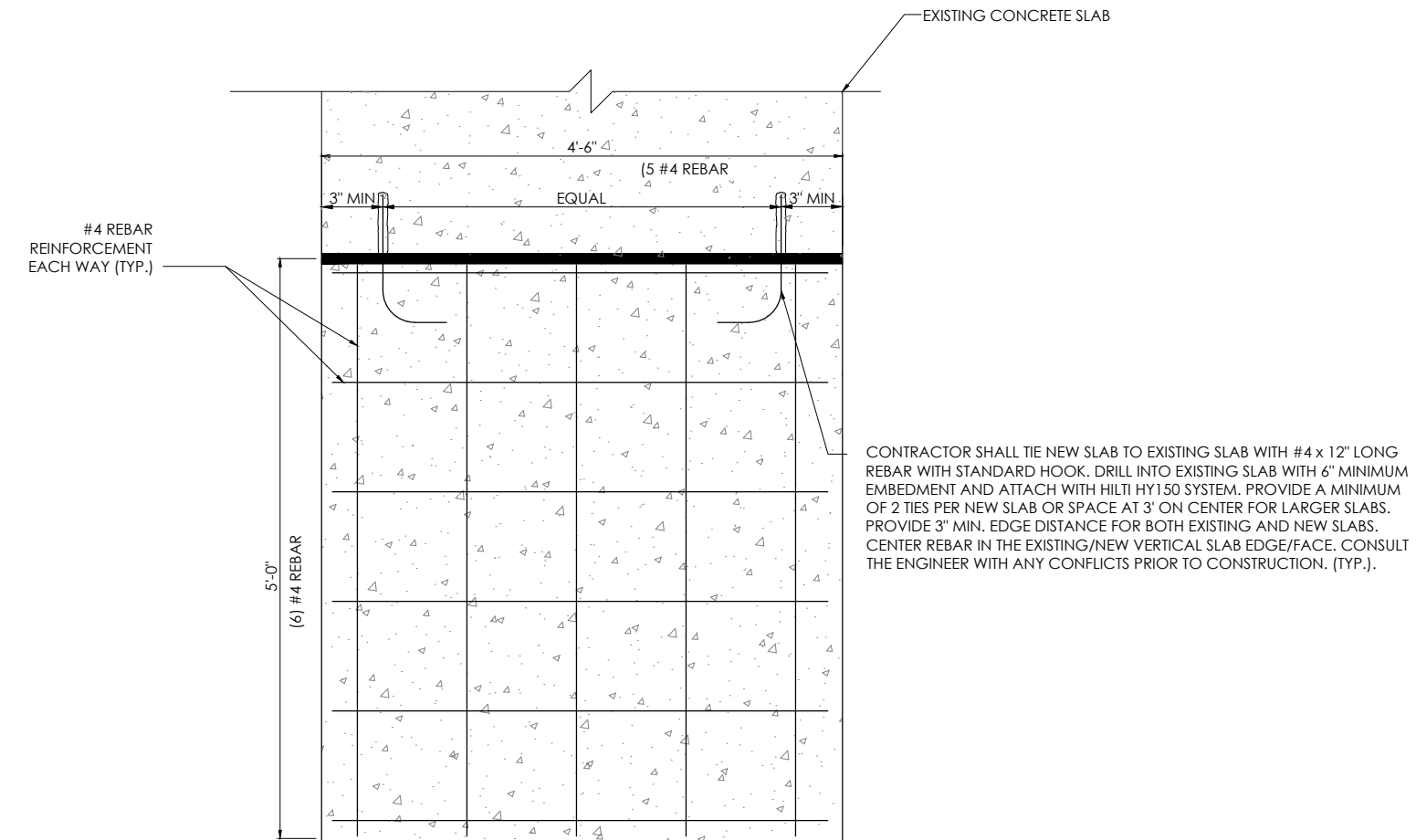
SLUMP - 4" MIN. / 6" MAX.
AIR ENTRAINMENT - 2% TO 3% BY VOLUME

CLASSES OF CONCRETE

CLASS	28 DAY STRENGTH (PSI)	MAX WATER/CEMENT RATIO	PLACEMENT LOCATION	NOTES
TYPE I	3000	0.55	PRECAST SLABS	NORMAL WEIGHT
TYPE III *	5000	0.45	SITE CAST SLABS & POST FOOTINGS	HIGH EARLY

* IF REQUIRED BY THE CONSTRUCTION SCHEDULE THE CONTRACTOR MAY SUBSTITUTE TYPE III HIGH EARLY STRENGTH CONCRETE WITH THE APPROVAL OF THE CONSTRUCTION MANAGER.
- 3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED STEEL BARS UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES FOR REBAR SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD. UNO. LAPS FOR WELDED WIRE FABRIC SHALL BE AT LEAST 8 INCHES, UNO.
- 4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"
#6 AND LARGER	2"
#5 AND SMALLER & W.W.F.	1-1/2"
- 5. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
- 6. MAINTAIN THE TEMPERATURE OF CAST IN PLACE CONCRETE AT BETWEEN 50 AND 90 DEGREES FAHRENHEIT. IF COLDER OR HOTTER CONDITIONS EXIST, THE CONCRETE MIX DESIGN SHALL BE ADJUSTED ACCORDINGLY.
- 7. DO NOT USE RETEMPERED CONCRETE.
- 8. INSTALLATION OF CONCRETE ANCHORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO THE ANCHOR MANUFACTURER'S SPECIFICATIONS FOR MATERIAL STRENGTH, EMBEDMENT DEPTH, SPACING, AND EDGE DISTANCE OR AS DETAILED ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD, HILTI, OR APPROVED EQUAL. IF THE MANUFACTURER'S SPECIFICATIONS AND DETAILS ARE FOUND TO CONFLICT WITH THAT SHOWN HEREIN, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- 9. THE CONTRACTOR SHALL VERIFY FROST LINE AND FOOTING DEPTH REQUIREMENTS WITH THE JURISDICTION HAVING AUTHORITY PRIOR TO CONSTRUCTION.



EQUIPMENT SLAB DETAIL
SCALE: NTS



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SBA:

BROADWAY
NC01660-B

T-MOBILE:

SBA/BROADWAY CO
5RA0319A

SITE TYPE:

250' SELF-SUPPORT
T-MOBILE ANCHOR

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1	12/8/21	CX REV. 1

SITE COORDINATES

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LONG: -79.04269444

DRAWN: RSW

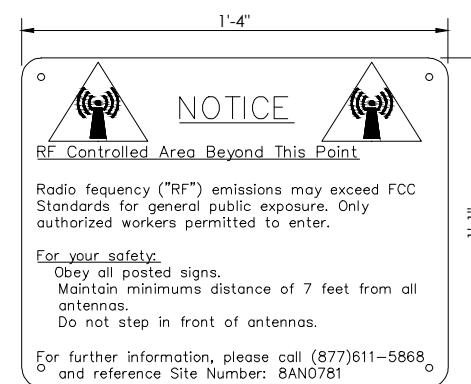
CHECKED: PWM

JOB#: 21SBATNCM-0082

**EQUIPMENT
DETAILS**



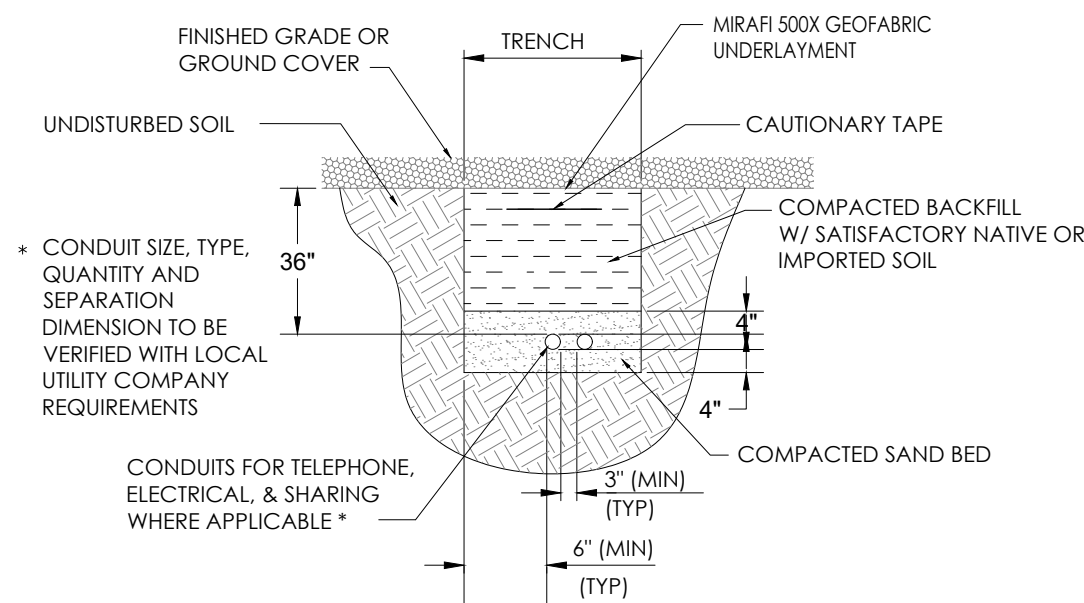
EMERGENCY SIGN
(RED METAL SIGN W/ WHITE LETTERING)



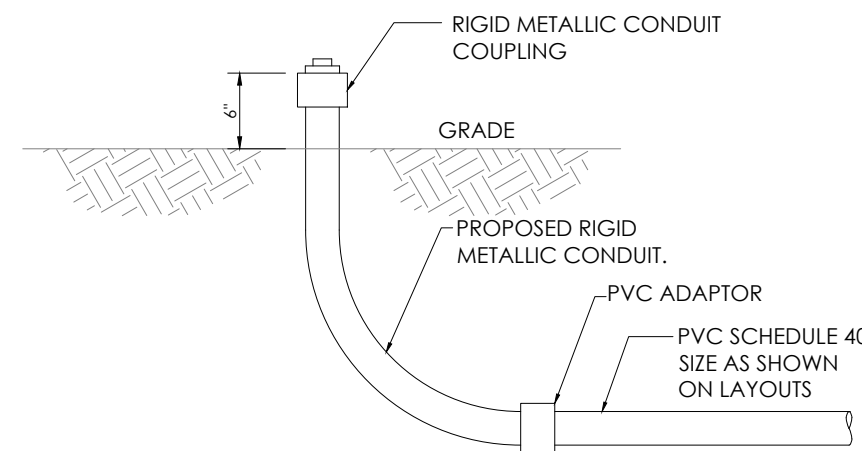
RF NOTICE SIGN
(WHITE METAL SIGN W/ BLACK LETTERING)

NOTES:
- SIGNS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- SIGNS TO BE INSTALLED AT ROOFTOP ENTRANCE OR ANY OTHER MANDATED AREA

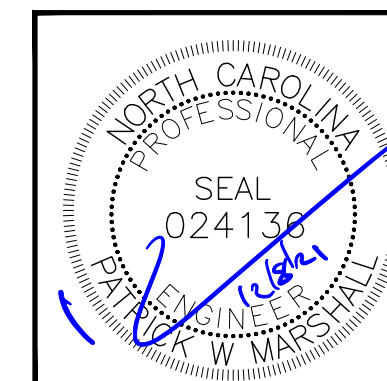
1 SIGNAGE DETAILS
SCALE: NOT TO SCALE



2 TRENCH DETAIL
SCALE: NOT TO SCALE

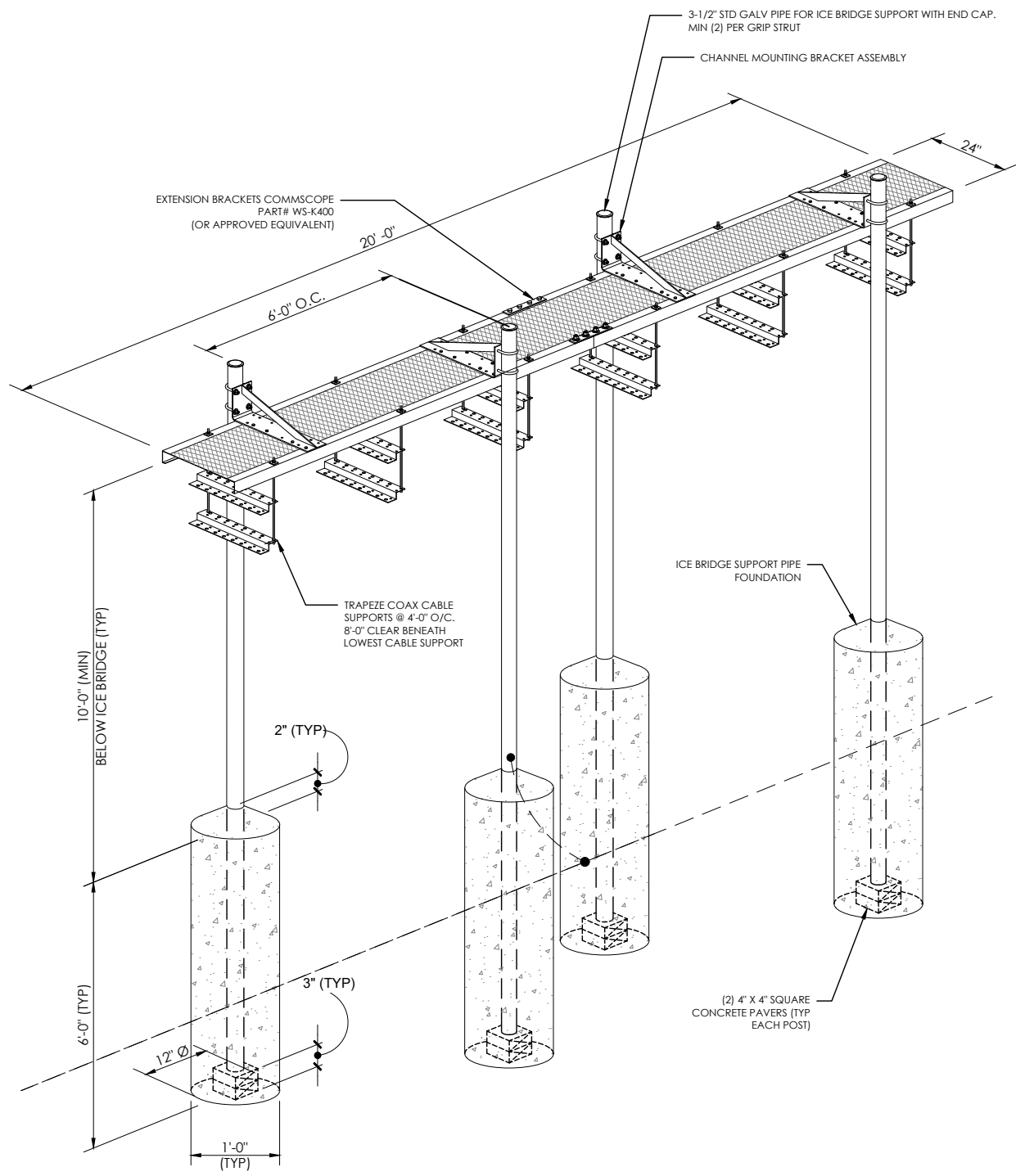


3 UNDERGROUND CONDUIT STUB-UP
SCALE: NOT TO SCALE

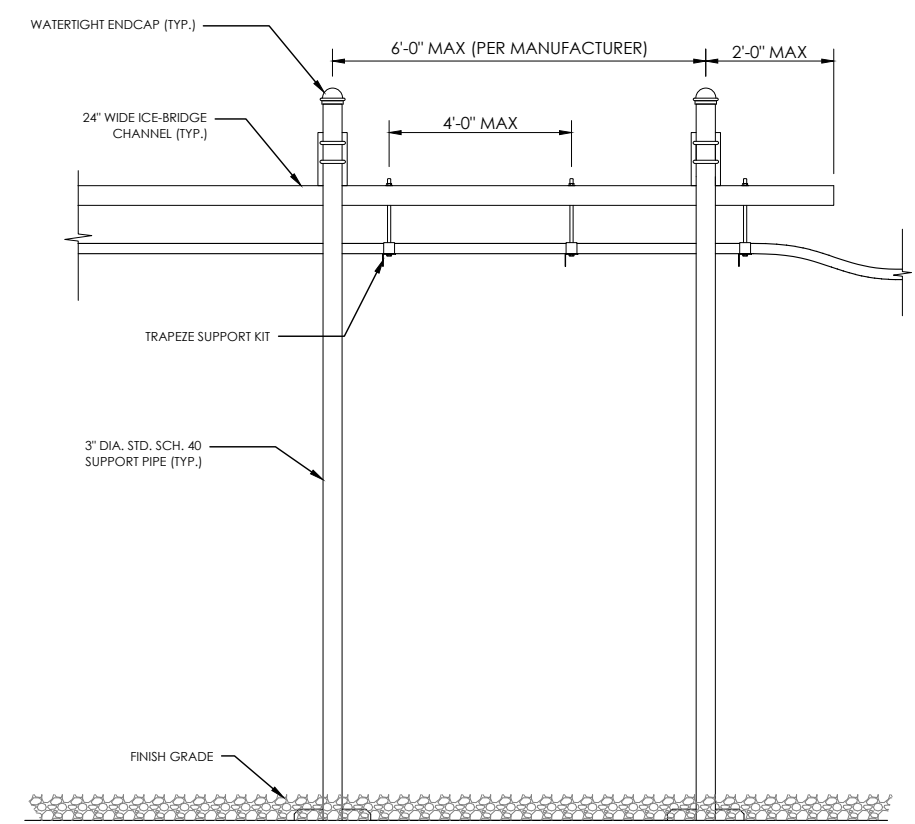


INSTALLER NOTE:

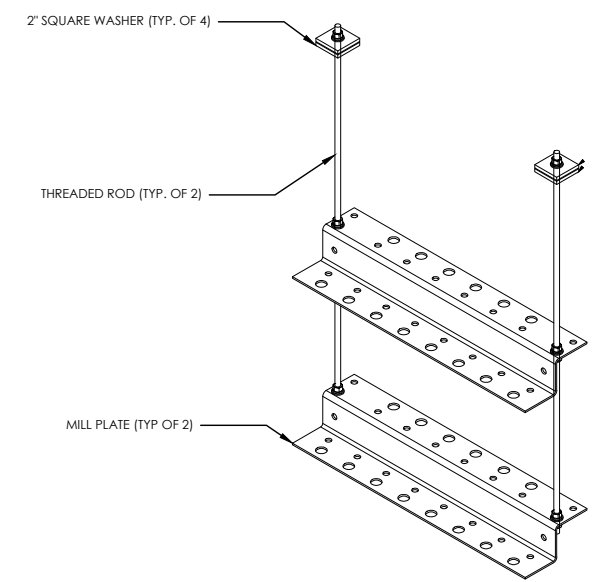
1. COMMSCOPE PART# WB-K210-B15 OAR APPROVED EQUIVALENT
2. #2 SOLID TINNED GROUND WIRE TO BE CADWELDED FROM EACH SUPPORT COLUMN TO GROUND RING
3. STAGGER ICE-BRIDGE POST AT 6'-0" O.C.



1 ICE BRIDGE DETAIL
SCALE: NOT TO SCALE



2 ICE BRIDGE ELEVATION
SCALE: NOT TO SCALE



3 TRAPEZE KIT: SITE PRO1 Z-BRACKET TRAPEZE KIT Z24K-D
SCALE: NOT TO SCALE

NORTH CAROLINA
PROFESSIONAL
SEAL
024136
PATRICK W MARSHALL
REGISTERED PROFESSIONAL ENGINEER

T-Mobile

SBA

SBA COMMUNICATIONS CORP.
5900 BROKEN SOUND PKWY NW
BOCA RATON, FL 33487

PM&A
P. MARSHALL & ASSOCIATES

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SITE TYPE:
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JOB#: 21SBATNCM-0082

ICEBRIDGE DETAILS

C-10

EQUIPMENT NOTES

DEMO NOTES:

1. REWORK ALL TERMINATION, ELECTRICAL CONNECTORS, CONDUCTORS, CONDUITS, ETC. TO FACILITATE NEW WORK.
2. VERIFY LOCATION IN THE FIELD OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING. COORDINATE WITH PUBLIC UTILITIES AS NECESSARY TO COMPLETE REQUIRED WORK AS INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR / REPLACEMENT OF ALL DAMAGED UTILITIES AT THE EXPENSE OF THE CONTRACTOR.
3. DEMOLITION IS INCLUDED TO GIVE A COMMON BASIS FOR QUOTATIONS AND MAY NOT SHOW EVERY ITEM TO BE DEMOLISHED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF WORK, COORDINATION, DEMOLITION, TEMPORARY FACILITIES, UTILITIES, ETC. NECESSARY TO COMPLETE THE PROJECT AS INDICATED ON THE CONTRACT DOCUMENTS.
4. PROTECT NETWORK EQUIPMENT, RECTIFIERS, FIBER CABLE, RACEWAYS, UTILITIES, BUILDING SYSTEMS, ETC. FROM DAMAGE.
5. EQUIPMENT DESIGNATED TO BE RELOCATED SHALL BE CLEANED, STORED AND PROTECTED FROM DAMAGE UNTIL REINSTALLED. REPLACE ALL EQUIPMENT DAMAGED DURING RELOCATING.
6. PROVIDE TEMPORARY POWER TO ALL ESSENTIAL SYSTEMS AS REQUIRED TO FACILITATE DEMOLITION. PROVIDE TEMPORARY COOLING UNITS AS REQUIRED.
7. MAINTAIN CIRCUIT CONTINUITY TO EXISTING CIRCUITS AND EQUIPMENT TO REMAIN OR TO BE RELOCATED.
8. WHERE ALLOWED BY CODE IT IS PERMISSIBLE TO REUSE EXISTING CONDUIT. PROVIDE NEW CONDUIT AND CONDUCTORS FOR NEW CIRCUITS AND THE EXTENSION OF EXISTING CIRCUITS.
9. PROVIDE EQUIPMENT PROTECTION ABOVE ALL NETWORK EQUIPMENT (INCLUDING BUT NOT LIMITED TO CABLING, BUS, CABLE TRAY, EQUIPMENT BAYS, RECTIFIERS, BATTERIES, INVERTERS, DISTRIBUTION PANELS, ETC.) WHEN WORKING ABOVE ALL EQUIPMENT. ALL PROTECTION SHALL BE COORDINATED WITH THE SWITCH MANAGER TO ENSURE THAT THE PROTECTION WILL NOT BLOCK ACCESS TO EQUIPMENT OR CAUSE OVERHEATING. PROVIDE TEMPORARY COOLING AS REQUIRED.
10. PROVIDE APPROPRIATE SEALING AND PATCHING OF ANY BUILDING PENETRATIONS AFTER REMOVAL OF ELECTRICAL DEVICES, EQUIPMENT, ETC. MATCH EXISTING WALLS. SEE ARCHITECTURE.

GENERAL NOTES:

1. IT IS CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE & DETERMINE THE EXACT EXTENT OF WORK, COORDINATION, DEMOLITION, TEMPORARY FACILITIES, UTILITIES, ETC. NECESSARY TO COMPLETE THE PROJECT AS INDICATED ON THE CONTRACT DOCUMENTS.
2. VERIFY LOCATION IN THE FIELD OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING. COORDINATE WITH PUBLIC UTILITIES AS NECESSARY TO COMPLETE REQUIRED WORK AS INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT OF ALL DAMAGED UTILITIES AT THE EXPENSE OF THE CONTRACTOR.
3. PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDER & BC.
4. PROVIDE 2-HOLE LUGS CAPABLE OF ACCEPTING MULTIPLE CRIMPS FOR ALL POWER & GROUNDING CONNECTIONS TO A BUS OR WHERE FEASIBLE. USE MANUFACTURER'S COMPRESSION TOOL WITH PROPER DIE FOR EACH CONNECTOR. MANUFACTURER'S EMBOSSED CODING SYSTEM IS REQUIRED. A UNIVERSAL OR DIE-LESS TYPE CRIMPING TOOL SHALL NOT BE USED. PROVIDE LUGS WITH INSPECTOR HOLE FOR ALL INTERIOR INSTALLATIONS. PROVIDE CLOSED LUGS (NO INSPECTION HOLE) FOR EXTERIOR OR UNDERGROUND CONNECTIONS.
5. FEEDER CIRCUITS, GROUND LEADS, & DEDICATED EQUIPMENT CIRCUITS SHALL NOT BE SPLICED.
6. VERIFY LASHING REQUIREMENTS FOR SERVICE ENTRANCE & MAIN DISTRIBUTION EQUIPMENT WITH MANUFACTURER. INSTALL LASHING PER MANUFACTURER'S REQUIREMENTS.

COMPRESSION LUG NOTES:

REFER TO SPECIFICATION SECTION 260519 & NSTD516 REGARDING REQUIREMENTS FOR A SAMPLE COMPRESSION LUG SUBMITTAL ON ALL PROJECTS. FAILURE TO PROVIDE CORRECT LUGS & SUBMIT A SAMPLE COMPRESSION LUG TO VZW PRIOR TO INSTALLATION OF ANY LUGS MAY RESULT IN REJECTION OF THE INSTALLATION & REPLACEMENT OF ALL LUGS & ASSOCIATED CABLE, WHERE REQUIRED, AT NO COST TO VZW.



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SBA:

BROADWAY
NC01660-B

T-MOBILE:

SBA/BROADWAY CO
5RA0319A

SITE TYPE:

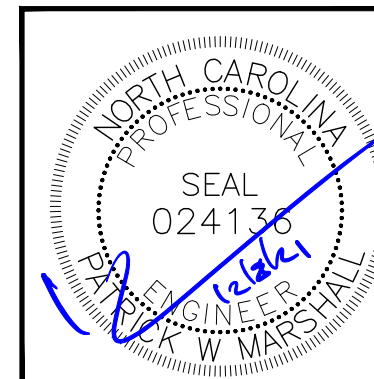
250' SELF-SUPPORT
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REV	DATE	DESCRIPTION
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SITE COORDINATES

LAT: 35.43419444
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DRAWN: RSW
CHECKED: PWM
JOB#: 21SBATNCM-0082



ELECTRICAL DETAILS

E-1

T-MOBILE SITE #:		LOCATION:		VOLTAGE: 240/120 1Ø		MOUNTING / ENCLOSURE: EXISTING / NEMA 3R	
5RA0319A (EXISTING)		H-FRAME		MAIN C/B: 200 AMPS		AVAIL. FAULT CURRENT: EXISTING	
12/2/2021		BUS RATING: 200 AMPS		SHORT CIRCUIT RATING: EXISTING			
AMPS/POLES	WIRE & CONDUIT	TYPE	DESCRIPTION	KVA	CKT	A	
20/2	EXISTING	EQ	BATT CHARGER	1.00	1	1.10	
		H	BLOCK HEATER	1.00	3		
			SPACE		5		
			SPACE		7		
			SPACE		9	5.00	
			SPACE		11		
			SPACE		13		
			SPACE		15		
			SPACE		17		
			SPACE		19		
			SPACE		21		
			SPACE		23		
PHASE TOTAL				6.1		7.1	KVA
TOTAL CONNECTED LOAD				13.2	KVA	55	A
TOTAL DEMAND LOAD				12.1	KVA	50	A

LOAD TYPE	DESCRIPTION	CONN. LOAD KVA	AMPS	DEMAND FACTOR	DESIGN LOAD KVA	AMPS
L	LIGHTING	0.0	0.0	1.25	0.0	0.0
R	RECEPTACLE	0.0	0.0	NEC	0.0	0.0
M	MOTOR	0.0	0.0	NEC	0.0	0.0
H	HEATING	1.0	4.2	1.00	1.0	4.2
AC	HVAC	0.0	0.0	1.00	0.0	0.0
EQ	EQUIPMENT	11.1	46.3	1.00	11.1	46.3
E	EXISTING	0.0	0.0	1.25	0.0	0.0

* ALL EQUIPMENT LOADS CONSIDERED CONTINUOUS LOADS

1 EXISTING PANEL SCHEDULE
SCALE: NOT TO SCALE

T-MOBILE SITE #:		LOCATION:		VOLTAGE: 240/120 1Ø		MOUNTING / ENCLOSURE: EXISTING / NEMA 3R	
5RA0319A (PROPOSED)		H-FRAME		MAIN C/B: 200 AMPS		AVAIL. FAULT CURRENT: EXISTING	
12/2/2021		BUS RATING: 200 AMPS		SHORT CIRCUIT RATING: EXISTING			
AMPS/POLES	WIRE & CONDUIT	TYPE	DESCRIPTION	KVA	CKT	A	
20/2	EXISTING	EQ	BATT CHARGER	1.00	1	1.10	
		H	BLOCK HEATER	1.00	3		
		EQ	(P) 6160 CABINET	3.00	5	3.00	
				3.00	7		
				0.00	9	5.00	
				0.00	11		
			SPACE		13	0.18	
			SPACE		15		
			SPACE		17		
			SPACE		19		
			SPACE		21		
			SPACE		23		
PHASE TOTAL				9.3		10.1	KVA
TOTAL CONNECTED LOAD				19.4	KVA	81	A
TOTAL DEMAND LOAD				18.3	KVA	76	A

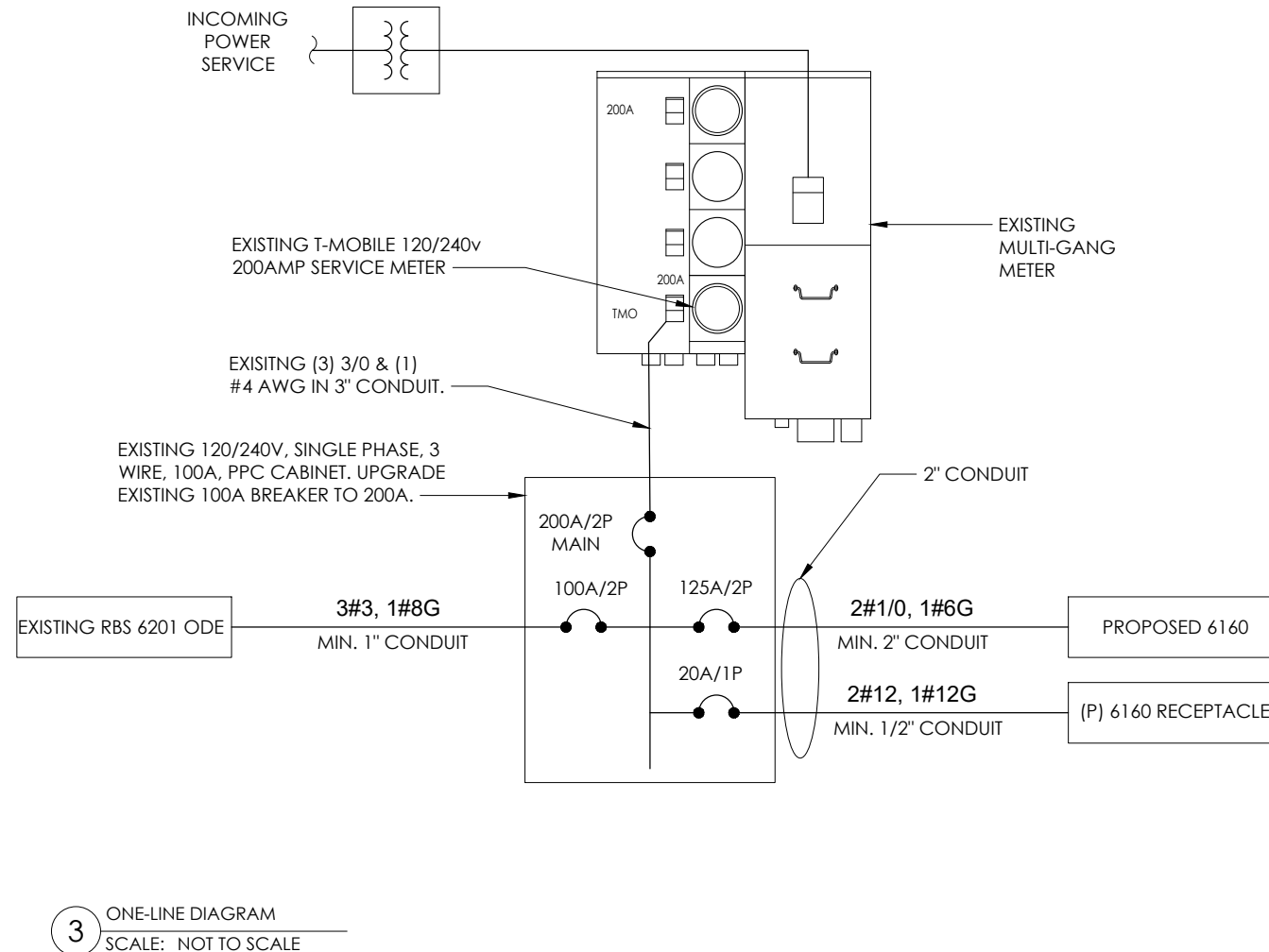
LOAD TYPE	DESCRIPTION	CONN. LOAD KVA	AMPS	DEMAND FACTOR	DESIGN LOAD KVA	AMPS
L	LIGHTING	0.0	0.0	1.25	0.0	0.0
R	RECEPTACLE	0.2	0.8	NEC	0.2	0.8
M	MOTOR	0.0	0.0	NEC	0.0	0.0
H	HEATING	1.0	4.2	1.00	1.0	4.2
AC	HVAC	0.0	0.0	1.00	0.0	0.0
EQ	EQUIPMENT	17.1	71.3	1.00	17.1	71.3
E	EXISTING	0.0	0.0	1.25	0.0	0.0

* ALL EQUIPMENT LOADS CONSIDERED CONTINUOUS LOADS

2 PROPOSED PANEL SCHEDULE
SCALE: NOT TO SCALE

GENERAL ELECTRICAL NOTES

- NO SITE SPECIFIC LOAD STUDY WAS ACQUIRED. DEMAND LOADING KVA SHOWN AS ASSUMPTIONS PER MANUFACTURER SPECIFICATION DOCUMENTS & INDUSTRY STANDARD. WHEN OVERAGES ARE VERIFIED ON SITE, ALL DISCREPANCY SHALL BE BROUGHT TO THE ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
- ELECTRICAL SERVICE SHALL BE 200A, 240/120V, 1 P, 3W
- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDER PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.
- CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY AND CALCULATE SHORT CIRCUIT FAULT CURRENT AND ARC FLASH AND PROVIDE LABELS ON ELECTRICAL EQUIPMENT PER THE N.E.C. AND LOCAL JURISDICTION. CONTRACTOR SHALL PROVIDE EQUIPMENT RATED FOR FAULT CURRENT.
- CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS. THE MAXIMUM 12-MONTH DEMAND LOAD WAS NOT AVAILABLE AT TIME OF PRINTING. CONTRACTOR SHALL COORDINATE WITH POWER CO., OBTAIN MAXIMUM DEMAND LOAD, MULTIPLY VALUE BY 1.25, ADD ALL NEW LOADS & VERIFY NEW MAXIMUM DEMAND LOAD DOES NOT OVERLOAD ANY PORTION OF THE EXISTING ELECTRICAL SYSTEM. CONTACT EOR IF OVERLOAD IS POSSIBLE BEFORE START OF WORK.
- ONE-LINE DIAGRAM IS SCHEMATIC ONLY AND NOT INDICATIVE OF ACTUAL EQUIPMENT LAYOUT. CONTRACTOR IS RESPONSIBLE FOR LOADING ON ALL PANELS AND FEEDERS PER THE N.E.C. CONTRACTOR SHALL ENSURE CONTINUITY OF EXISTING CIRCUITS TO REMAIN. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL EXISTING AND PROPOSED LOADS PLACED ON EXISTING PANELS DO NOT EXCEED THE MAXIMUM LOADING REQUIRED PER THE LATEST EDITION OF THE N.E.C. NOTIFY EOR IF OVERLOAD IS POSSIBLE
- 6160 ENCLOSURE STANDARD CONFIGURATION INCLUDES (4) 3500W RECTIFIERS. LOAD PROVIDED IN PANEL SCHEDULE IS BASED ON THIS CONFIGURATION. IF ADDITIONAL RECTIFIERS ARE REQUIRED, ENGINEER OF RECORD SHALL BE CONTACTED TO DETERMINE ADEQUACY OF EXISTING PANEL FOR ADDITIONAL LOAD
- CONTRACTOR SHALL FIELD VERIFY EXISTING AC PANEL MODEL AND ENSURE 125A, 2P, 2-POSITION BREAKER IS COMPATIBLE, CONTACT EOR IF DISCREPANCIES ARE FOUND.
- CONTRACTOR TO FIELD VERIFY ALL EQUIPMENT RATINGS AND WIRE SIZES. IF ANY DISCREPANCIES EXIST, CONTACT ENGINEER PRIOR TO ROUGH IN.



3 ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

T-Mobile



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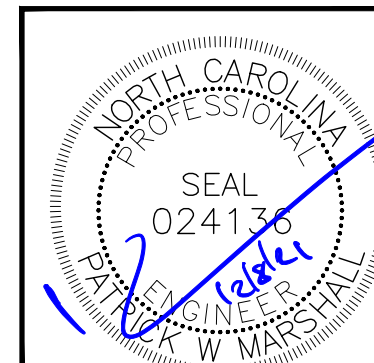
P. MARSHALL & ASSOCIATES

LOCATION:
106 J R LANE
BROADWAY, NC 27505
SBA:
BROADWAY
NC01660-B
T-MOBILE:
SBA/BROADWAY CO
5RA0319A
SITE TYPE:
250' SELF-SUPPORT
T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

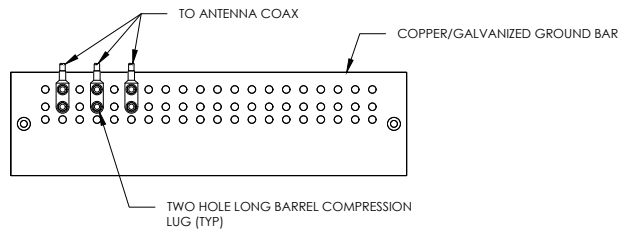
SITE COORDINATES
LAT: 35.43419444
LONG: -79.04269444

DRAWN: RSW
CHECKED: PWM
JOB#: 21SBATNCM-0082



PANEL SCHEDULE & ONE-LINE DIAGRAM

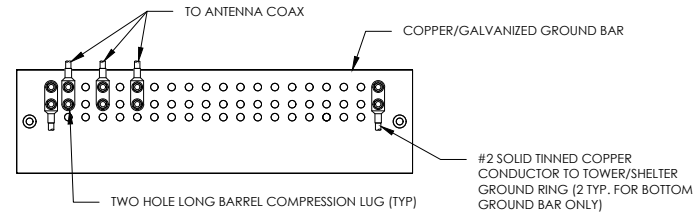
E-2



NOTES:

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

1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE

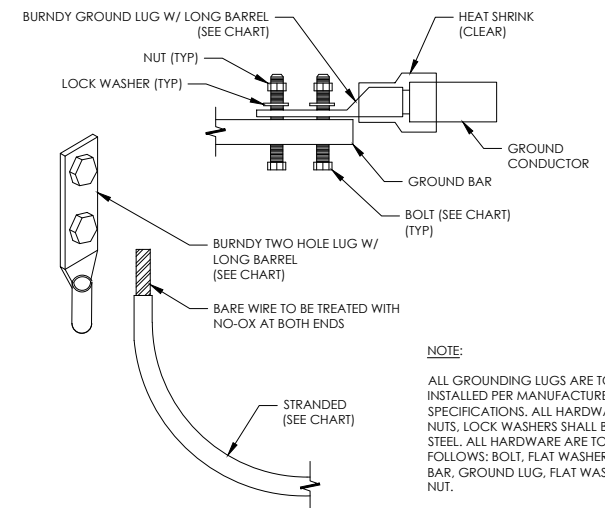


NOTES:

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

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

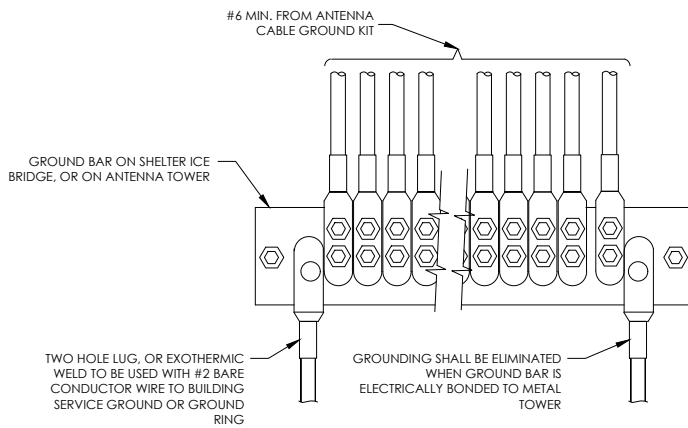
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



NOTE:

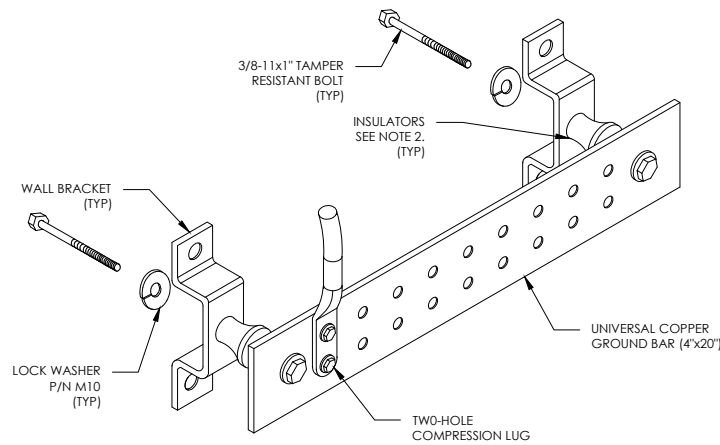
ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



GROUNDING SHALL BE ELIMINATED WHEN GROUND BAR IS ELECTRICALLY BONDED TO METAL TOWER

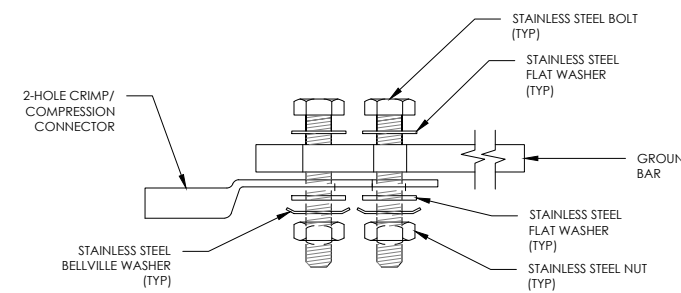
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



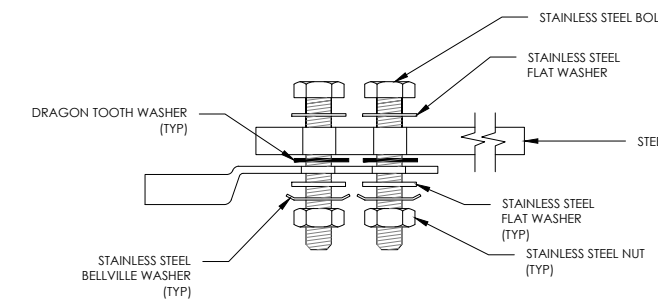
NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-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.

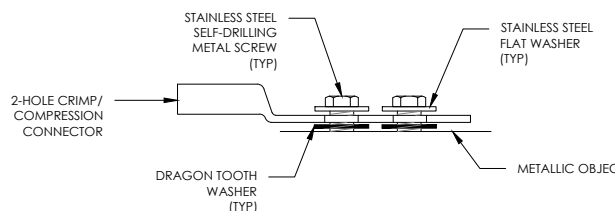
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



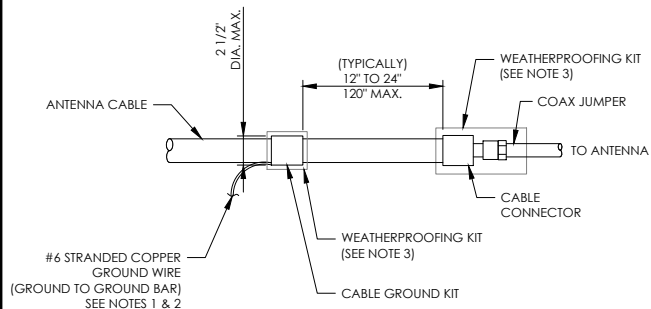
SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



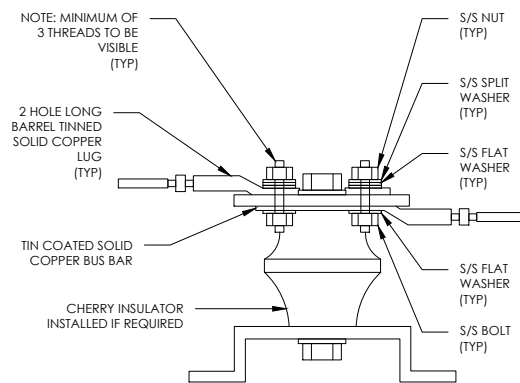
SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS



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.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE

T-Mobile



SBA COMMUNICATIONS CORP.
5900 BROKEN SOUND PKWY NW
BOCA RATON, FL 33487



P. MARSHALL & ASSOCIATES

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SITE COORDINATES

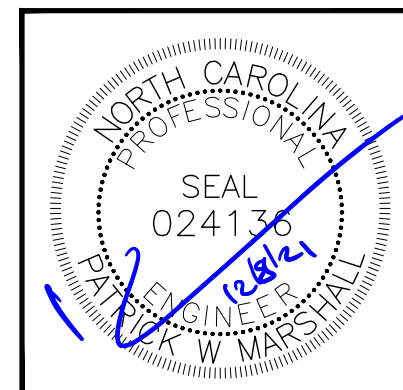
LAT: 35.43419444

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GROUNDING
DETAILS

G-1