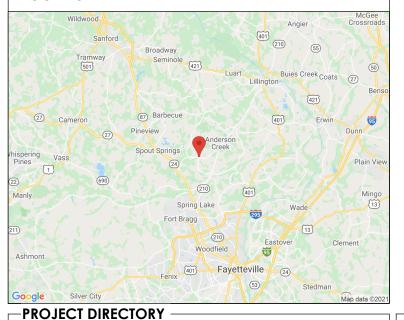
LOCATION MAP



SITE NAME: L-SPRINT RA74XC058 SITE NUMBER: 5RA 1026A
DESCRIPTION: 67E5A998E 6160 **SPRINT KEEP** 144' RAD CENTER

JURISDICTION:

PARCEL #:

ACREAGE:

UTILITIES:

(E) IMPERVIOUS:

(P) IMPERVIOUS:

COMPOUND SIZE:

70NING:

6792 OVERHILLS RD

WATER TANK

AND SEWER

5RA1026A

35.25673

-78.9655

TITLE SHEET

T-MOBILE/SPRINT

SPRING LAKE, NC 28390

SOUTH CENTRAL WATER

(35° 15' 24.228")

(-78° 57' 55.8")

T - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK

REV	DATE	DESCRIPTION
0	06/04/21	PRELIM CDs
1	06/09/21	FOR CONSTRUCTION
2	2/3/22	RFDS UPDATE

SITE COORDINATES

CHECKED: PWM

21KTM NNC-0204 IOR#

HARNETT COUNTY

0514-08-1369.000

7,612± SQFT.

7,612± SQFT.

RA-20R

0.68

POWER COMPANY: SOUTH RIVER EMC

TELCO COMPANY: CENTURYLINK

0 SQFT.

T-MOBILE SPRINT KEEP

LAT: 35.25673 LONG: -78.9655

DRAWN: RLB

APPLICATION/ PROPERTY OWNER:

SOUTH CENTRAL WATER & SEWER DISTRICT OF HARNETT COUNTY 6808 OVERHILLS RD.

SPRING LAKE, NC

ENGINEERING: P. MARSHALL & ASSOCIATES

3545 WHITEHALL PARK DRIVE SUITE 450 CHARLOTTE, NORTH CAROLINA 28273

TREVOR MCALLISTER TMCALLISTER@PMASS.COM

478-542-3291

CONSTRUCTION:

P. MARSHALL & ASSOCIATES 3545 WHITEHALL PARK DRIVE SUITE 450 CHARLOTTE, NORTH CAROLINA 28273 **CLAYTON JONES**

CJONES@PMASS.COM

678-280-2325

-PROJECT SUMMARY -

SCOPE OF WORK

PROPOSED WORK WILL CONSIST OF PREPARATION AND INSTALLATION OF CELLULAR COMMUNICATION CARRIER EQUIPMENT, WHERE ALL WORK SHALL BE CONTAINED WITHIN COMPOUND & SHALL NOT ADVERSELY IMPACT THE SURROUNDING ADJACENT PARCELS. NO GRADING IS REQUIRED. NO NEW BUILDING BEING CONSTRUCTED, AND NO ELECTRICAL SERVICE UPGRADE IS REQUIRED. ALL PROPOSED CONSTRUCTION WILL BE CONTAINED WITHIN THE LIMITS OF THE EXISTING FENCED TELECOM COMPOUND OR WITHIN PROPOSED UTILITY EASEMENT. WORK WILL INCLUDE, BUT NOT LIMITED TO; ANTENNA SWAP & INSTALL, MOUNT WORK, CABLE REMOVAL/ INSTALLATION, AND CABINET INSTALLATION WITHIN EXISTING EQUIPMENT LEASE AREA.

CODES

ALL CONSTRUCTION SPECIFIED ON DOCUMENTS SUBMITTED FOR BUILDING PERMIT SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING & ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL **GOVERNING AUTHORITIES:**

- 2018 NORTH CAROLINA BUILDING CODE (2015 IBC)
- 2018 NORTH CAROLINA FIRE CODE
- 2018 NORTH CAROLINA PLUMBING CODE
- 2018 NORTH CAROLINA MECHANICAL CODE
- 2018 NORTH CAROLINA ENERGY CONSERVATION CODE 2020 NORTH CAROLINA ELECTRICAL CODE - NFPA 70 ANSI/ TIA
- TIA-222-G, TIA-598-C, TIA-6087-B, TIA-569-B, TIA-568-C
- TIA-1019-A

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED.

EXISTING &/OR PROPOSED EQUIPMENT WILL NOT INTERFERE WITH COUNTY EMERGENCY COMMUNICATIONS AND THAT, IF SUCH. INTERFERENCE IS FOUND TO EXIST, THEN APPLICANT WILL TAKE

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN PER FIRM PANEL: 3720050400J. DATED: 10/03/2006.

SITE DESIGN SUMMARY:

WIND LOAD DESIGN: 118_mph **EXPOSURE CATEGORY:** OCCUPANCY: CONSTRUCTION TYPE:

FACILITY HAS NO SANITARY OR POTABLE WATER

THERE IS "NO EMERGENCY RESPONSE EQUIPMENT ON THE TOWER AND WHATEVER STEPS NECESSARY TO CORRECT INTERFERENCE."

-SHEET INDEX -

T-1

TOWER HEIGHT (AGL.)

-SITE SUMMARY -

SITE ADDRESS:

TOWER TYPE:

TENANT ID/NAME:

SITE LATITUDE(NAD83):

SITE LONGITUDE(NAD83):

GND ELEVATION (NAVD88): 462'

COMPANY:

CARRIER:

T-1A	APPENDIX B
T-1B	APPENDIX B
T-1C	APPENDIX B
C-1	SITE PLAN
C-2	EQUIPMENT PLAN
C-3	TOWER ELEVATION
C-4	ANTENNA ORIENTATION & CABLE SCHEDULE
C-5	PLUMBING DIAGRAM
C-6	CABINET SPECS
C-7	ANTENNA SPECS
C-8	EQUIPMENT DETAILS
E-1	EQUIPMENT NOTES
E-2	PANEL SCHEDULE & ONE-LINE DIAGRAM
G-1	GROUNDING DETAILS

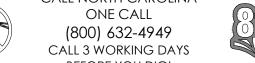
TITLE SHEET & **PROJECT INFORMATION**

T-1

CALL NORTH CAROLINA

-CALL BEFORE YOU DIG-

BEFORE YOU DIG!



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)

	(1						
Name of Project:	L-SPRINT RA74XC058 - 5F	RA1026A					
3	/ERHILLS RD SPRING LAKE, N			Zip	Code		
	SPRINT/) 238 - 4125		fail CURTIS.EBERSPACHER@T-MOBILE.COI		
Owner/Authorized Agent: CURTIS EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E-Mail CURTIS.EBERSPACHER Phone # (919) 238 - 4125 E							
Code Enforceme	_	y	County HAF	_	State		
Code Emorceme	int Jurisdiction Ch	У	County TA	MALIT	State		
CONTACT:							
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	# E-MAIL		
Architectural Civil	P. MARSHALL & ASSOCIATES	PATRICK MARSHALL	024136	(678) 280-23	25		
Electrical	11777 110177 122 00 7 100 0 0 17 1120	7111101177711017712		()			
Fire Alarm				()			
Plumbing				()			
Mechanical				()			
Sprinkler-Standp Structural	ipe			()			
Retaining Walls	>5' High						
Other	P. MARSHALL & ASSOCIATES	TREVOR MCALLISTER		(478) 542-32	291 TMCALLISTER@PMASS.COM		
("Other" should	include firms and individu	als such as truss, p	recast, pre-engin	eered, interior	lesigners, etc.)		
2019 NC DITT	DING CODE: New 1	Puilding	Shell/Core	☐ 18t Time	Interior Completions		
2018 NC BUILI				_	•		
(check all that ap	CTED: (date)	Prescriptive Repair Chapter 14 CURREN	Phased Construct Alteration Alteration Alteration Alteration TOCCUPANCE SED OCCUPAN	on Level II on Level III on Level III CY(S) (Ch. 3):	☐ Historic Property ☐ Change of Use		
	· /———						
OCCUPANCY	CATEGORY (Table 160	4.5): Current: UTIL	ITY & MISC. P	roposed: UTILITY	& MISC.		
BASIC BUILDI		Ппа					
Construction Ty		∐ II-A ⊠ II-B	□ III-A □ III-B	□IV	∐ V-A □ V-B		
Sprinklers:	No ☐ Partial	□ NFPA 13	☐ NFPA 13R	□ NFPA 13			
Standpipes:	No Class ∏ I	= _	☐ Wet ☐ Dr	_	D.		
Primary Fire Di	=		☐ Wet ☐ Di	y No 🗆	Voc		
Special Inspecti	_ =	Yes	nazaru Area.		168		
Special Hispecti	• –	_	ADEA WADI E				
Froon		OSS BUILDING		c	UB-TOTAL		
FLOOR 3 rd Floor	EXISTING (SQ FT)	NEW (3(11)	2	OUD-TOTAL		
2 nd Floor							
Mezzanine							
1 st Floor							
Basement							
TOTAL							

		ALLO	WABLE AREA		
Primary Occupan	ncy Classification(s	s):			
Assembly Business Educational	□ A-1	☐ A-2	☐ A-3	☐ A-4	☐ A-5
Factory Hazardous Institutional I-1 Con	= =	H-2 Def		mbust	h H-5 HPM
	ndition		☐ 4 ☐ 5 ☐ R-3 ☐ S-2 Low	□ R-4 □ High-pile	
Utility and M	Parking Gara	ge ∐ Open	Enclosed	Repair Ga	rage
•		n(e). A			
Incidental Uses (•				
`		as a Non-Separ	ated Use (see excepti	ons).	
•				ons).	
• '	-	-			
Mixed Occupanc	, -	eparation: Sele			
-	y. <u>Select one</u> S	eparation. <u>Sere</u>	ct one Exception.		_
Select one	Area of Occupancy	A + A	ctual Are	rncy B < 1	
				$\frac{n_{CVB}}{n_{CVB}} \leq 1$	
	, , , , , , , , , , , , , , , , , , ,				
		+	ON GAREA	+ =	≤ 1.00
		— ~\'	\cup , \subset	4	
	SCRIPTION AND	1	' '70	(C)	(D)
NO.	USE	(11°)	AREA		VABLE AREA PER OR UNLIMITED ^{2,3}
	— r	11, 11	\mathcal{N}	NCKEASE STOKT	OK CIVEIWITED
		2///	′ — —		
		\ \rangle \ \rangle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
		· —			
a. Perimeter	creases from Sect. or r which fronts a pub ilding Perimeter P) =(lic way or open	space having 20 feet(P)	t minimum width =	(F)

T - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
0	06/04/21	PRELIM CDs
1	06/09/21	FOR CONSTRUCTION
2	2/3/22	RFDS UPDATE

SITE COORDINATES LAT: 35.25673 LONG: -78.9655

DRAWN: RLB
CHECKED: PWM

JOB#: 21KTM_NNC-0204

APPENDIX B

T-1A

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		RATING	DETAIL#	DESIGN#	SHEET # FOR	SHEET #
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR
	DISTANCE		(W/* REDUCTION)	SHEET #	RATED	PENETRATION	RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
Structural Frame,							
including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East					_		
West							
South			ー _へ	. 1			
Interior			⁺ .	\			
Nonbearing Walls and Partitions			MO	\mathcal{C}	1		
Exterior walls		. N	1 ,	\sim			
North		いい	· ~/	1			
East	- m	١,	\cdot	, . –			
West	1-	. 1	111/	. —			
South	•	\sim	110				
Interior walls and partitions		<i>Y</i>)') —				
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	on						
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

TOTAL UNITS	ACCESSIBLE UNITS	ACCESSIBLE UNITS	TYPE A UNITS	TYPE A UNITS	TYPE B UNITS	TYPE B UNITS	TOTAL ACCESSIBLE UNITS
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	PROVIDED

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PAI	RKING	TOTAL#C	F PAR	KING SPA	ACES		# OF A	cr.		G.P		TOTAL#
AREA		REQUIRE	D	PROVII	DED		AR W	<i>b</i>		ч		CCESSIBLE
						5' ACC	Fe	(Y	•	CH	ESS	PROVIDED
								Ι'		,	3	
					_	` \	()	` /	_	-		
			_			1	\sim	• • (1	_		
TOTAL						1	٦.	-11	J.			
				. 1	D	` `	~\ <u>`</u>	117				
				11	P	`		11	_			
			7	الأ	P	ررا	Q'	ATTRE	MENTS			
		_	7	الم	P	, 		ZUIRE	EMENTS			
			7	الم	P) 		ZUIRE	EMENTS			
USE			_	الم	P 8			¿JIRE J2.1)		SHOWERS	DRINKING	FOUNTAINS
USE		MALE .	7	الم	P B			J2.1)			DRINKING REGULAR	FOUNTAINS ACCESSIBLE
	XIST'G	MALE	7	الم	P B)2.1) LAVATORIE	S	SHOWERS		
SPACE EX		MALE	,	الم	P 8)2.1) LAVATORIE	S	SHOWERS		

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

Carbon Monoxide Detection: Yes No
LIFE SAFETY PLAN REQUIREM
Life Safety Plan Sheet #:
Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not) Exterior wall opening area with respect to Occupancy Use for each area as it re ¹ Occupant loads for each area Exit access travel distance Common path of trav Dead end lengths (.
☐ Clear exit widths for ☐ Maximum calculated or ☐ Maximum calculated or ☐ Maximum calculated or ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Actual occupant load for c
A separate schematic plan in purposes of occupancy separa.
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:

Emergency Lighting: Exit Signs: Fire Alarm:

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

Existing building envelope complies with code: Select one

Exempt Building: Select one Provide code or statutory reference:

Climate Zone: Select one

Method of Compliance: <u>Select one</u> (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 asset

Exterior Walls (each assembly)

Description of assembly: U-Value of total assembly: R-Value of insulation

Walls below grade

Description 6. U-Value of tota R-Value of insula

Floors over unconditioned space (each assembly)

Description of 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: **T** - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
0	06/04/21	PRELIM CDs
1	06/09/21	FOR CONSTRUCTION
2	2/3/22	RFDS UPDATE

SITE COORDINATES LAT: 35.25673 LONG: -78.9655

DRAWN: RLB CHECKED: PWM

21KTM_NNC-0204 JOB#:

APPENDIX B

T-1B

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:	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Live Loads:	Roof psf Mezzanine psf Floor
Ground Snow Load:	psf
	ic Wind c NO 2-7)
SEISMIC DESIGN CATE	\mathcal{M}' , \mathcal{M}' \mathcal{M} \mathcal{M} \mathcal{M} \mathcal{M} \mathcal{M} \mathcal{M} \mathcal{M}
Provide the following Seisn	, ² /// ₂ – – –
Occupancy Categor	
Spectral Response Ac	s%g S ₁ %g
Site Classification (AS	\Box A \Box B \Box C \Box D \Box E \Box F
	arce: Field Test Presumptive Historical Data
Basic structural system (
Bearing Wall	Dual w/Special Moment Frame
Building Fran	
Moment Fran	
Analysis Procedure:	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
	al, Components anchored? Yes No
LATERAL DESIGN CONTROL	: Earthquake Wind
SOIL BEARING CAPACITIES:	
Field Test (provide copy of	of test report) psf
Presumptive Bearing capa	acity psf
Pile size, type, and capacit	

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:
relative humidity: Building heating load:
Building heating load:
Building cooling load:
Mechanical Spacing Conditioni.
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:

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 total wattage per fit total interior wattage total exterior wattage

building or space by space)

Additional Prescriptive Complia.

506.2.1 More Efficient N. Johanical 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

T - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

REV DATE DESCRIPTION 0 06/04/21 PRELIM CDS 1 06/09/21 FOR CONSTRUCTION 2 2/3/22 RFDS UPDATE			
1 06/09/21 FOR CONSTRUCTION	REV	DATE	DESCRIPTION
1 00/00/21 1 011 001101110011011	0	06/04/21	PRELIM CDs
2 2/3/22 RFDS UPDATE	1	06/09/21	FOR CONSTRUCTION
	2	2/3/22	RFDS UPDATE

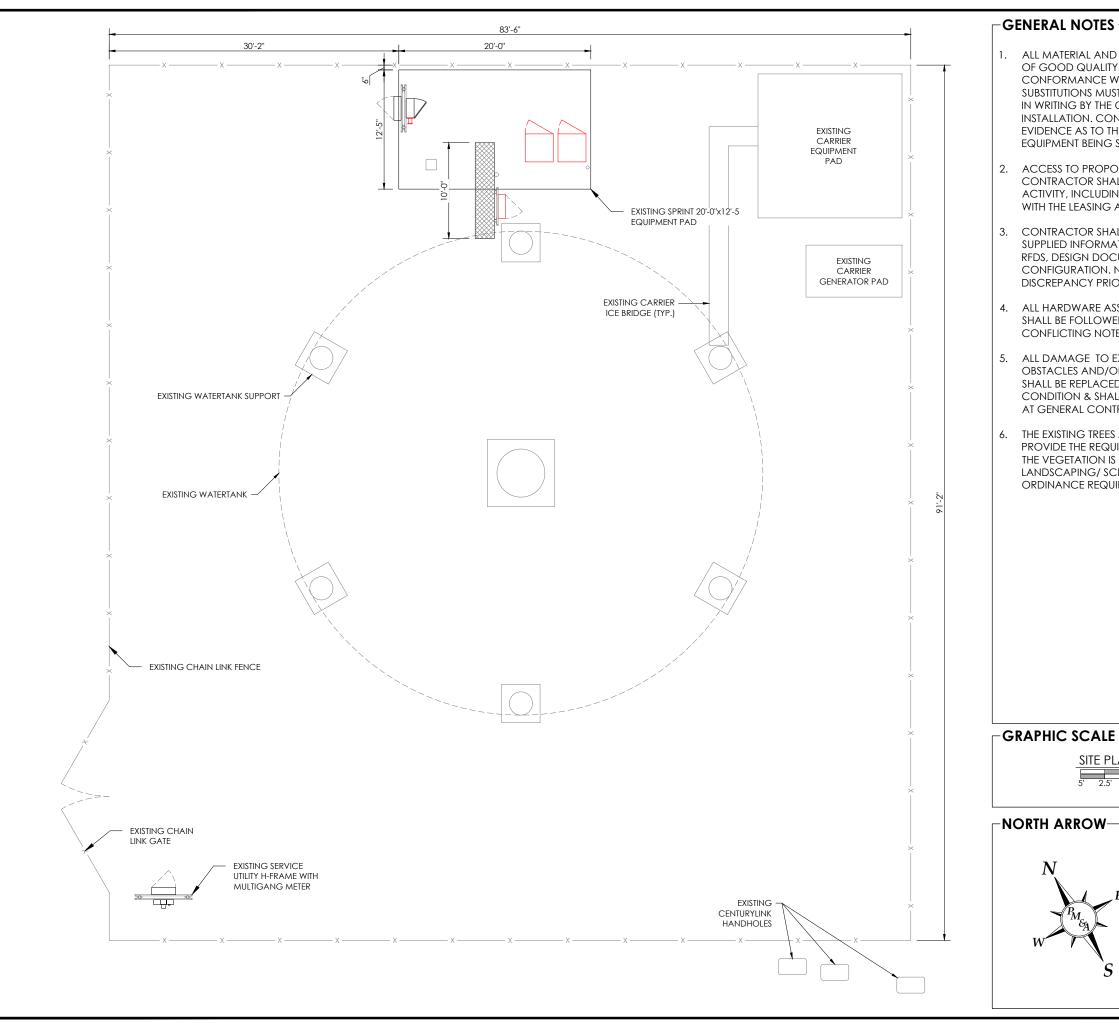
SITE COORDINATES LAT: 35.25673 LONG: -78.9655

DRAWN: RLB
CHECKED: PWM

JOB#: 21KTM_NNC-0204

APPENDIX B

T-1C



-GENERAL NOTES

- ALL MATERIAL AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY. FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY 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 MATERIAL AND EQUIPMENT BEING SUBSTITUTED.
- ACCESS TO PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS WITH THE LEASING AGENT FOR APPROVAL.
- CONTRACTOR SHALL HAVE PRESENT ON SITE CURRENT CARRIER SUPPLIED INFORMATION PRIOR TO COMMENCE OF WORK; IE. RFDS, DESIGN DOCUMENTS SPECIFIC TO SITE AND CONFIGURATION. NOTIFY CONSTRUCTION MANAGER OF ANY DISCREPANCY PRIOR TO ARRIVAL AT SITE.
- 4. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTION SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- 5. ALL DAMAGE TO EXISTING UNDERGROUND, OVERHEAD OBSTACLES AND/OR EXISTING EQUIPMENT, PAD OR SHELTERS SHALL BE REPLACED BACK TO FULL ORIGINAL OR BETTER CONDITION & SHALL MATCH EXISTING CONDITIONS BY REPAIRS AT GENERAL CONTRACTOR EXPENSE.
- 6. THE EXISTING TREES AND VEGETATION ARE SUFFICIENT TO PROVIDE THE REQUIRED SCREENING PER LOCAL ORDINANCE. IF THE VEGETATION IS REMOVED OR DAMAGED, NEW LANDSCAPING/ SCREENING WILL BE INSTALLED TO MEET LOCAL ORDINANCE REQUIREMENTS.

T - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

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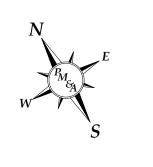
SITE COORDINATES LAT: 35.25673

LONG: -78.9655

DRAWN: RLB CHECKED: PWM

21KTM NNC-0204 JOB#

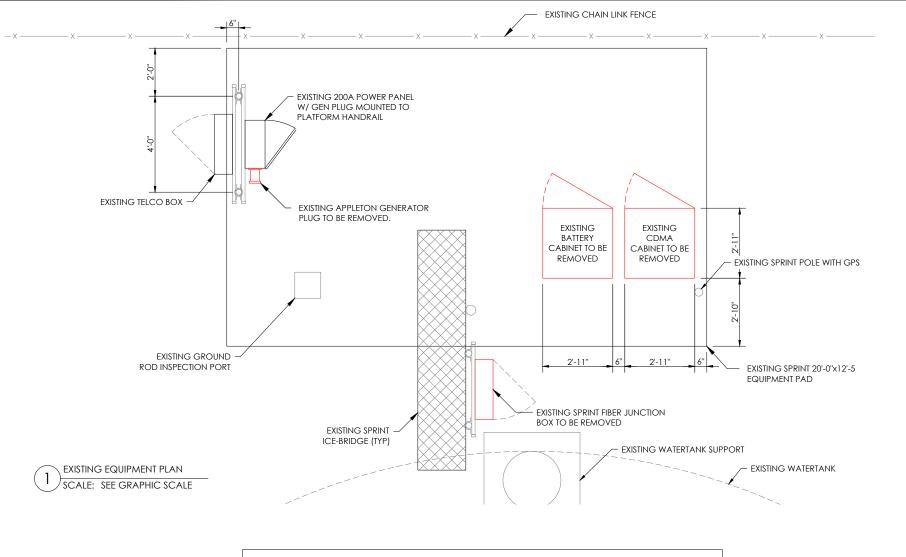
-NORTH ARROW

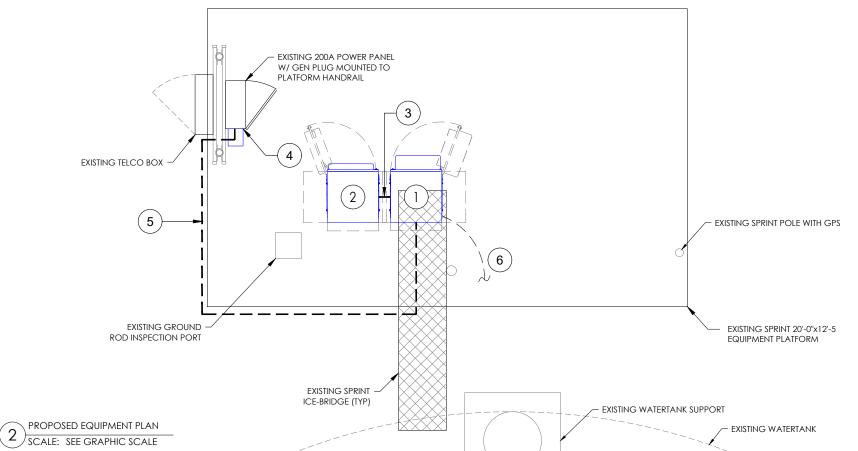




1"=5'-0" (FULL SIZE) 1"=10'-0" (11x17)

SITE PLAN





KEYED NOTES

- 1. PROPOSED ENCLOSURE 6160 CABINET ATTACHED TO PAD 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)
- PROPOSED ENCLOSURE B160 BATTERY CABINET ATTACHED TO PAD 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)
- PROPOSED (2) 2" RIGID CONDUIT WITH PULLSTRINGS FROM PROPOSED ENCLOSURE 6160 CABINET TO PROPOSED ENCLOSURE 8160 BATTERY CABINET.
- 4. EXISTING PPC CABINET ATTACHED TO EXISTING H-FRAME.
 REMOVE EXISTING APPLE-TON GENERATOR PLUG & INSTALL
 PROPOSED CAM-LOK GENERATOR PLUG. MAINTAIN 36"x48"
 CLEARANCE IN FRONT OF PANEL. GROUND PER MANUFACTURER
 DETAILS
- 5. PROPOSED (1) 2" NONFLEX CONDUIT FROM EXISTING PPC TO PROPOSED ENCLOSURE 6160 CABINET.
- 6. PROPOSED (1) 2" NONFLEX CONDUIT FROM PROPOSED 6160 CABINET FOR TELCO/FIBER CONNECTIVITY. FINAL CONNECTION REQUIREMENTS TBD.

EXISTING LEGACY CABINETS TO BE REMOVED AFTER THE PROPOSED T-MOBILE EQUIPMENT IS ON AIR & LEGACY EQUIPMENT IS WILTED.

-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.

GRAPHIC SCALE

SITE PLAN

1"=2'-0" (FULL SIZE)
2' 1' 0 2' 1"=4'-0" (11x17)

T - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

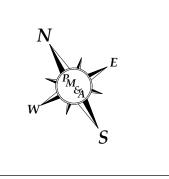
REV	DATE	DESCRIPTION
0	06/04/21	PRELIM CDs
1	06/09/21	FOR CONSTRUCTION
2	2/3/22	RFDS UPDATE

SITE COORDINATES
LAT: 35.25673
LONG: -78.9655

DRAWN: RLB CHECKED: PWM

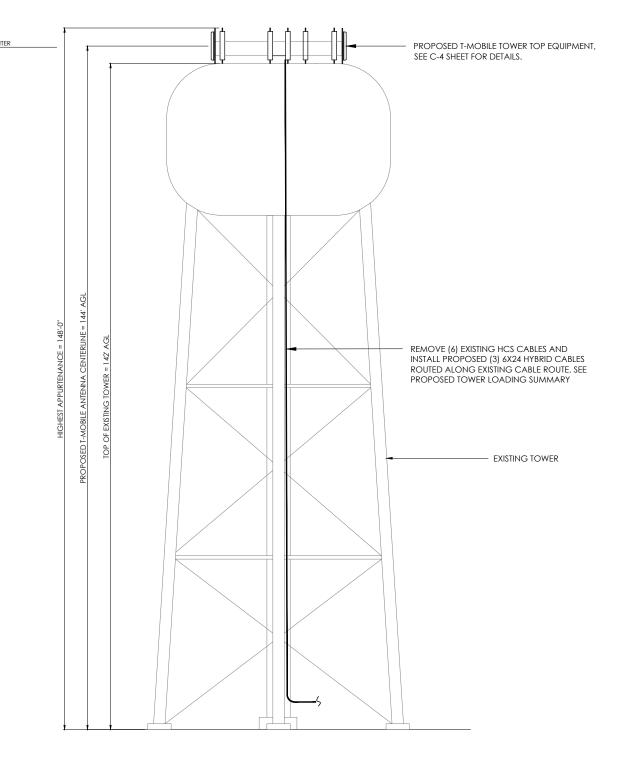
IOR#- 21KTM NNC-0204

-NORTH ARROW-





EQUIPMENT PLAN



-GENERAL NOTES -

- REFER TO TANK STRUCTURAL ANALYSIS FOR PROPOSED TANK & 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 & ASSEMBLY INSTRUCTIONS BY MANUFACTURER 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:

TANK- PAINTED

TOWER MOUNTS- GALVANIZED

ANTENNA- NEUTRAL (MANUFACTURER FINISH)

FOUNDATIONS- UNPAINTED CONCRETE

ICE BRIDGE- GALVANIZED

CABLES- PAINTED TO MATCH WATERTANK
BASE CABINETS/EQUIPMENT- NEUTRAL (MANUFACTURER FINISH)

TOWER LOADING SUMMARY

. •	-0/12111	3 30//W/ART		
EXISTING	REMOVE	EQUIPMENT	ADD	TOTAL
6	6	ANTENNA	9	9
0	0	TMA/DIPLEXER	0	0
9	9	RADIOS	6	6
0	0	COAX	0	0
6	6	HYBRIDS	3	3





LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

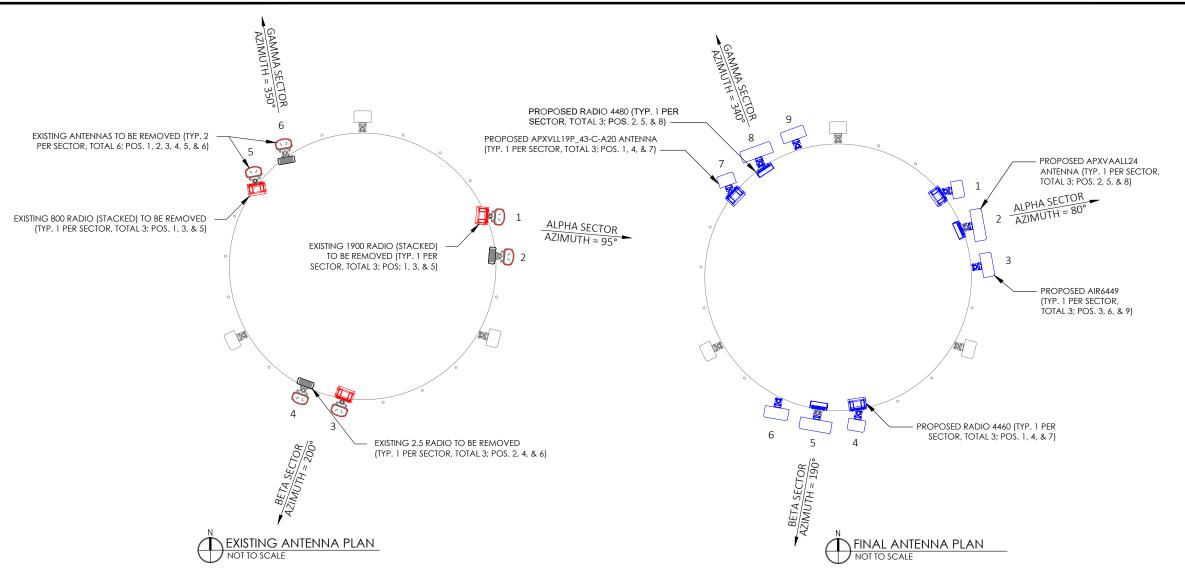
SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION	
0	06/04/21	PRELIM CDs	
1	06/09/21	FOR CONSTRUCTION	
2	2/3/22	RFDS UPDATE	
SI	SITE COORDINATES		
L/	LAT: 35.25673		
LONG: -78.9655			
DRAV	VN: RLB		
CHEC	KED: PW	M	

JOB#: 21KTM_NNC-0204

TOWER ELEVATION



		ENNA SCH		DADIO MODEL	OADLE DECORPTION
SECTOR	MARK	AZIMUTH	ANTENNA MODEL	RADIO MODEL	CABLE DESCRIPTION
ALPHA	1	80°	RFS - APXVLL19P_43-C-A20 (QUAD) (P)	(1) RADIO 4460 B25 + B66 (P)	-
ALPHA	2	80°	RFS - APXVAALL24_43-U-NA20 (OCTO) (P)	(1) RADIO 4480 B71 + B85 (P)	(1) ERICSSON 6x24 HCS 4AWG 60M (197') (P)
ALPHA	3	80°	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	-
-	-	-		-	-
BETA	4	190°	RFS - APXVLL19P_43-C-A20 (QUAD) (P)	(1) RADIO 4460 B25 + B66 (P)	-
BETA	5	190°	RFS - APXVAALL24_43-U-NA20 (OCTO) (P)	(1) RADIO 4480 B71 + B85 (P)	(1) ERICSSON 6x24 HCS 4AWG 70M (229') (P)
BETA	6	190°	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	•	-
-	-	-		•	-
GAMMA	7	340°	RFS - APXVLL19P_43-C-A20 (QUAD) (P)	(1) RADIO 4460 B25 + B66 (P)	-
GAMMA	8	340°	RFS - APXVAALL24_43-U-NA20 (OCTO) (P)	(1) RADIO 4480 B71 + B85 (P)	(1) ERICSSON 6x24 HCS 4AWG 70M (229') (P)
GAMMA	9	340°	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	-
-	-	-		-	-

- ANTENNA NOTE

CONTRACTOR TO ROTATE THE ANTENNAS AND OR MOUNTS TO OBTAIN NEW AZIMUTHS. REFER TO FINAL RF DOCUMENTS TO CONFIRM NEW AZIMUTHS

(E)- EXISTING (P) - PROPOSED

GC TO PROVIDE POST CONSTRUCTION DOCUMENTATION ON ALL ANTENNA AZIMUTHS AND COLOR CODING FOR CABLES.

- EQUIPMENT NOTES

- THE HYBRID CABLE LENGTH
 SHOWN IS ONLY AN ESTIMATE
 AND SHOULD NOT BE USED FOR
 ORDERING MATERIALS.
 CONFIRM THE REQUIRED HYBRID
 CABLE LENGTH WITH T-MOBILE
 PRIOR TO ORDERING OR
 INSTALLATION.
- 2. THE CONTRACTOR SHALL TEST THE OPTICAL FIBER AFTER INSTALLATION IN ACCORDANCE WITH T-MOBILE STANDARDS AND SUPPLY THE RESULTS TO T-MOBILE.
- 3. THE CONTRACTOR SHALL CONFIRM THE TOWER TOP EQUIPMENT LIST ABOVE WITH THE FINAL T-MOBILE RFDS PRIOR TO INSTALLATION.
- 4. ALL PROPOSED ANTENNA
 CABLES SHALL BE COLOR
 CODED PER T-MOBILE MARKET
 STANDARDS.
- 5. REFER TO ERICSSON EQUIPMENT INSTALLATION STANDARDS FOR ADDITIONAL INFORMATION.
- 6. REFER TO EQUIPMENT
 MANUFACTURER'S
 SPECIFICATION SHEETS FOR
 ADDITIONAL INFORMATION NOT
 LISTED ABOVE.
- 7. CONTRACTOR TO FIELD COORDINATE EXACT LOCATION OF PROPOSED EQUIPMENT WITH EXISTING CONDITIONS ON SITE.
- 8. PROPOSED EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE FASTENERS SHALL BE HIGH STRENGTH (A325, A36)
- DRILLING OF EXISTING STEEL MEMBERS IS NOT PERMITTED.
- 10.BOND PROPOSED EQUIPMENT TO EXISTING SECTOR GROUND BAR PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ADDITIONAL SECTOR GROUND BARS AS REQUIRED.
- 11. ALL ANTENNAS, CABLES, AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
- 12. CONTRACTOR TO CONTACT T-MOBILE FOR UP-TO-DATE RF DESIGN DATA. NOTIFY ENGINEER IF CONFLICT EXISTS.

T - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

ı			
	REV	DATE	DESCRIPTION
	0	06/04/21	PRELIM CDs
	1	06/09/21	FOR CONSTRUCTION
	2	2/3/22	RFDS UPDATE

SITE COORDINATES
LAT: 35.25673
LONG: -78.9655

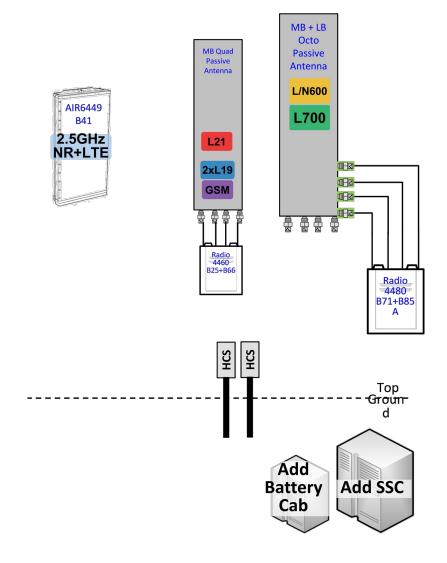
DRAWN: RLB
CHECKED: PWM

JOB#: 21KTM_NNC-0204



ANTENNA
ORIENTATION &
CABLE SCHEDULE

PROPOSED RF CONFIGURATION: 67E5A998E 6160



RFDS PLUMBING DIAGRAM SCALE: NOT TO SCALE

Coax Color Coding

☐ Antennas will be labeled (back of antenna view) Right to left 1 - 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	
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

ANTENNA #2 ANTENNA #3 ANTENNA #4 XX EXAMPLE: COAX WITH FOUR BANDS OF

FRONT OF THE ANTENNA

RED TAPE WILL REPRESENT ALPHA

METALLIC TAG NOTES: COLOR CODING NOTES:

color	GSM
color	UMTS 1900
color	UMTS AWS
color	LTE

COAX COLOR CODING (2) SCALE: NOT TO SCALE

color FIBER CABLE

- 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 ATTHE CENTER OF THE
- METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE.

 3. TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER.

 4. STANDARDIZED METALLIC TAG KIT WILL BE ASSEMBLED WITH TAGS ALREADY ENGRAVED TO ACCOMMODATE ALL CONFIGURATIONS.



ANTENNA AND COAXIAL CABLE SCHEDULE

ALL FIBER SPARES AT TOWER TOP TO BE SEALED WITH SELF-AMALGAMATING SEALING TAPE.

DC CARLE SPLICES TO LISE THIS SPLICE AND SEALED WITH SELF-AMALGAMATING SEALING TAPE FOLLOWED BY HEAT SHRINK TUBING.

- CABLE SCHEDULE

 ALL ANTENNAS SHALL BE FURNISHED WITH
 DOWNTHLT BRACKETS.
 CONTRACTOR SHALL COORDINATE
 REQUIRED MECHANICAL DOWNTHLT FOR
 EACH ANTENNA WITH RE PROINBER?
 ANTENNA DOWNTHLT SHALL BE SET AND
 VERIFIED BY A SMART LEVEL.
 CONTRACTOR SHALL INSTALL COLOR CODE
 RINGS ON EACH OF THE HORBID CABLES
 AND JUMPER CABLES WITH UV RESISTANT
 TAPE ALL GABLE SHALL BE MARKED AT
 TOP AND BOTTOM WITH 2" COLOR TAPE OR
 STENICH TAG, COLOR TAPE MAY BE
 OBTAINED FROM GRAYBAR ELECTRONICS.

T-MOBILE: L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

LOCATION:

142' WATER TANK T-MOBILE SPRINT KEEP

6792 OVERHILLS RD SPRING LAKE, NC 28390

T - Mobile-

REV	DATE	DESCRIPTION
0	06/04/21	PRELIM CDs
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2	2/3/22	RFDS UPDATE
SI	TE COORI	DINATES

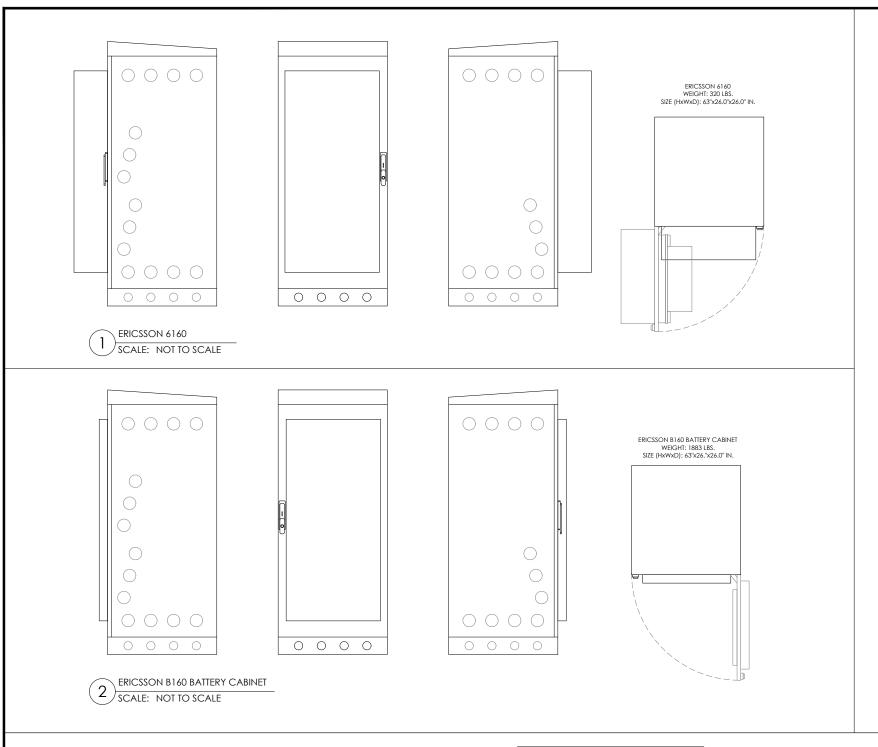
LAT: 35.25673 LONG: -78.9655

DRAWN: RLB CHECKED: PWM

21KTM NNC-0204 JOB#:

> **PLUMBING DIAGRAM**

6X24 HCS 4AWG HYBRID CABLE, (6) DC PAIRS + (24) OPTICAL PAIRS (3) SCALE: NOT TO SCALE







LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

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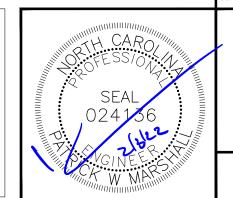
JOB#: 21KTM_NNC-0204

BATTERY CABINET NOTE

CABINET ANCHORAGE DETAIL

SCALE: NOT TO SCALE

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.



(N) CABINET BASE FRAME.

- (N) (4) 1/2"Ø HILTI KWIK BOLT TZ STAINLESS STEEL WITH MIN. 4-1/4" EMBEDMENT. INSTALL PER MANUFACTURERS SPECIFICATIONS.

CONCRETE PAD.

CABINET SPECS

C-6

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

CHAPTER 12, SECTION 1206

1206.2 SCOPE:

ELECTRICAL ENERGY STORAGE SYSTEM

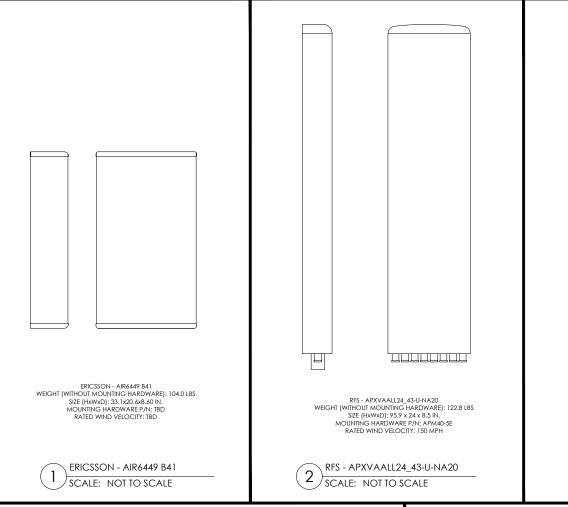
FLOAT VOLTAGE	
CONSTANT VOLTAGE CHARGING IS	RECOMMENDED
RECOMMENDED FLOAT VOLTAGE:	2.27 +/- 0.02 VPC

			SPECIFIC	ATIONS							
		CAPAC	ITY (AH)			NOMINAL					
MODEL NUMBER	VOLTAGE	8 HR TO 1.75 VPC	10 HR TO 1.8 VPC		INCHES		М	ILLIMETE	WEIGHT		
TTOTTE		@ 25°	@ 25°	Α	В	С	Α	В	С	LBS	Kg
NSB 190FT RED BATTERY	12	183 / 186 AH	187 / 190 AH	22.0	4.9	12.6	560	125	320	124.3	56.3

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

	BATTERY S	STORAGE S	YSTEM THE	ESHOLD QT	Y'S			
CATTE	RY TECHNO	DLOGY	C.	APACITY ALI	OWED			
LEAD ACID, ALL TYPES 70 kWh (252 MEGAJOULES)								
		AH = VOLT	AGE (AH),	1000				
VOLTS	АН		kWh	NO. OF BATTERIES	TOTAL kWh			
12	190	1000	2.28	12	27.36			
CONCLUS	IONS:			•				
27.36	<	70 kWh	SECTION	1206.2 DO	S NOT APPLY			
TOTAL BA	ITERY WEIC	GHT (12 BAT	TERIES):		1,491.6 LBS			

NSB 190FT RED BA	ATTERY LEAD &	ACID WEIGHTS (12-	VOLT MODULI
	WEIGHT	/KG	10.5
ELECTROLYTE	WEIGHT	/LBS	23.2
ELECTROLTIE	VOLUME	/LITERS	7.8
	VOLUME	/GALLONS	2.08
	WEIGHT	/KG	4.8
ACID	WEIGHI	/LBS	10.5
ACID	VOLUME	/LITERS	2.6
	VOLUME	/GALLONS	0.7
LEAD	WEIGHT	/KG	17.9
LEAD	WEIGHT	/LBS	39.4
LEAD OXIDE	VOLUME	/KG	23.3
LEAD OXIDE	VOLUME	/LBS	51.2
TOTAL WEIGHT	WEIGHT	/KG	56.3
IOIAL WEIGHI	WEIGHT	/LBS	124.3



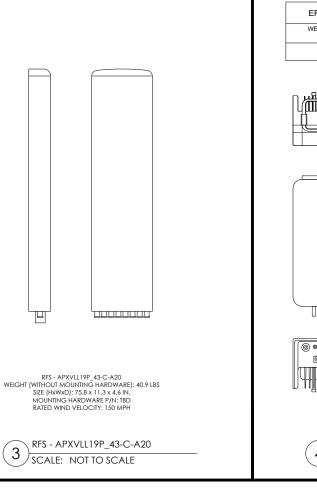
PLATFORM SUPPORT ARM

NEW COAX BLOCK — MOUNTING HARDWARE SITE PRO P/N: CH50

> NEW COAX BLOCK -SITE PRO P/N: CXB158

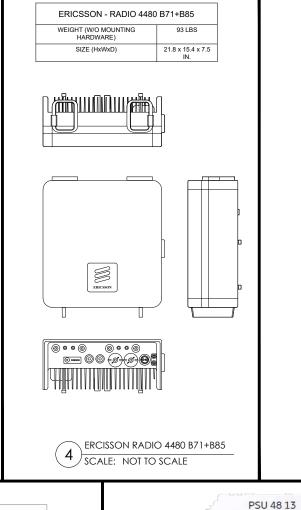
> > RF JUMPER DETAIL

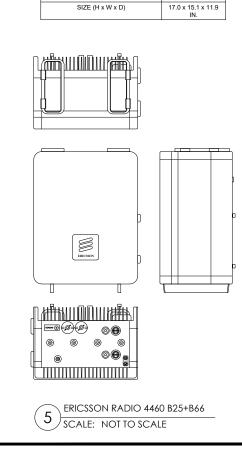
SCALE: NOT TO SCALE



ERICSSON BB 6630 / BB 6648

SCALE: NOT TO SCALE





ERICSSON - RADIO 4460 B25+B66

109.0 LBS

WEIGHT (W/O MOUNTING



T-MOBILE:

T - Mobile-

5RA1026A
SITE TYPE:
142' WATER TANK
T-MOBILE SPRINT KEEP

L-SPRINT RA74XC058

REV	DATE	DESCRIPTION
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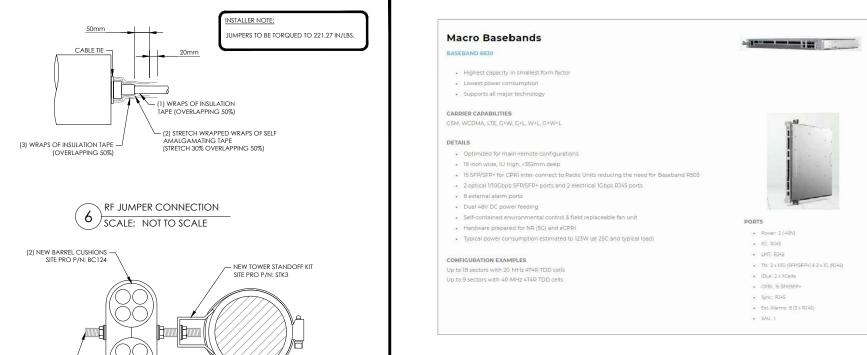
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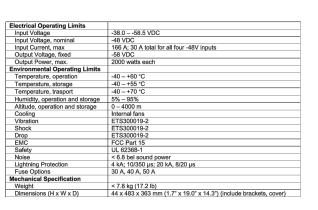
JOB#: 21KTM_NNC-0204

SEAL O24136

ANTENNA SPECS

C-7

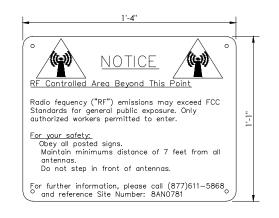




PRICSSON PSU 48 13 VOLTAGE BOOSTER

SCALE: NOT TO SCALE





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

NOTES:

SIGNAGE DETAILS SCALE: NOT TO SCALE SIGNS TO BE PROVIDED AND INSTALLED BY CONTRACTOR

- SIGNS TO BE INSTALLED AT ROOFTOP ENTRANCE OR ANY OTHER MANDATED AREA

T - Mobile-

LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

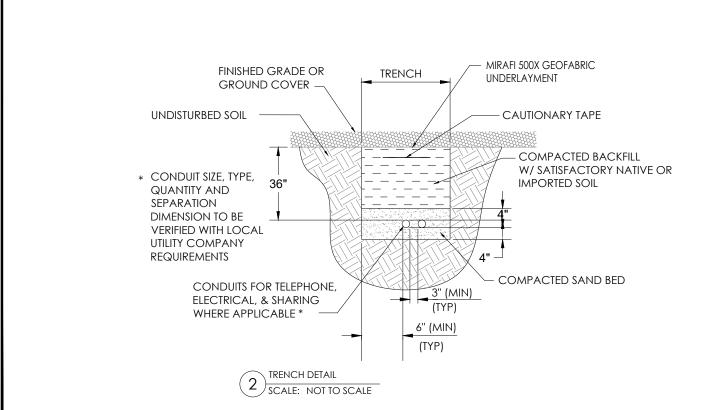
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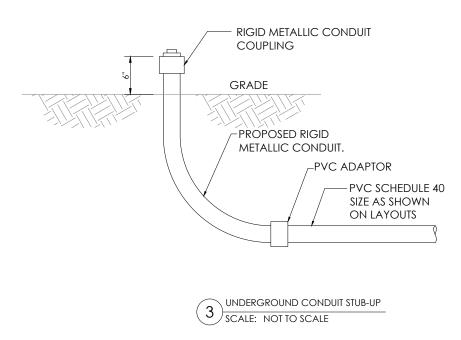
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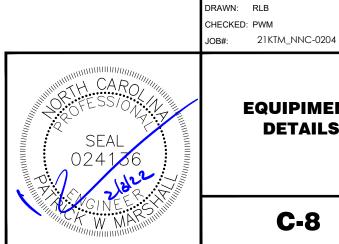
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EQUIPIMENT DETAILS

SITE COORDINATES LAT: 35.25673 LONG: -78.9655

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.
- 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 T-MOBILE.

T - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE. NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

142' WATER TANK T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
0	06/04/21	PRELIM CDs
1	06/09/21	FOR CONSTRUCTION
2	2/3/22	RFDS UPDATE

SITE COORDINATES LAT: 35.25673 LONG: -78.9655

DRAWN: RLB
CHECKED: PWM

JOB#: 21KTM NNC-0204



EQUIPMENT NOTES

E-1

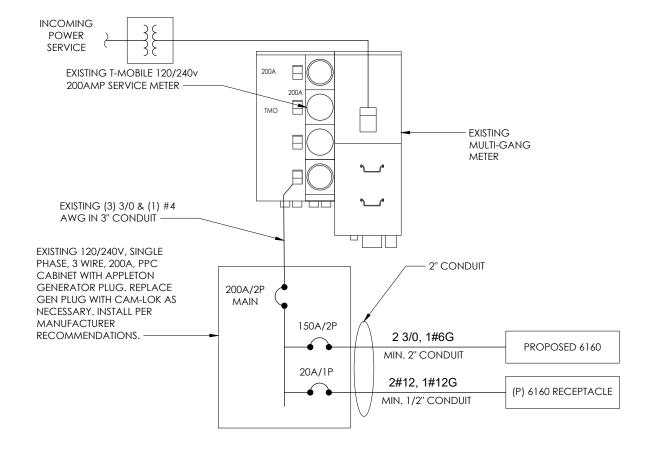
	T-MOBILE SITE #: 5RA1026A		LOCATIO	N:			VOLTAGE:	240/120	1Ø			MOUNTING / ENCLOSURE:		EXISTING / NEMA 3R	
	EXISTING		H-FRAN	E			MAIN C/B:	200	AMPS			AVAIL FAULT CURRENT:	EXISTING		
	6/4/2021					BUS RATING:	200	AMPS			SHORT CIRCUIT RATING:	EXISTING			
AMPS/ POLES	WIRE & CONDUIT	TYPE	DESCRIPT	ON	KVA	СКТ	А		В	скт	KVA	DESCRIPTION	TYPE	WIRE & CONDUIT	AMPS/ POLES
			SPACE			1				2		SPACE			
			SPACE			3				4		SPACE			
			SPACE			5				6		SPACE			
			SPACE			7				8		SPACE			
			SPACE			9				10		SPACE			
			SPACE			11				12		SPACE			
100/2	EXISTING	EQ	BTS		0.00	13				14		SPACE			
-	-	EQ.			0.00	15				16		SPACE			
10/1	EXISTING	E	UNKNO	/N	0.50	17	0.50			18		SPACE			
15/1	EXISTING	R	GFCI		0.18	19			10.18	20	10.00	MMBTS	EQ	EXISTING	100/2
20/2	EXISTING	EQ	SURG		0.10	21	10.10			22	10.00	-	EQ	-	-
		EQ			0.10	23			0.60	24	0.50	UGHT	L	EXISTING	20/1
					PHASE	TOTAL	10.6		10.8	KVA					
												TOTAL CONNE	CTED LOAD	21.4 kVA	89 A
												TOTAL DEN	IAND LOAD	21.6 kVA	90 A
LOAD		CONN	LOAD DEMAN	DESIGN D	DAD										
TYPE	DESCRIPTION	KVA	AMPS FACTO		AMPS										
1	LIGHTING	0.5	2.1 1.25	0.6								NOTES:			
P .	RECEPTACLE	0.2	0.8 NEC	0.2								NOTES.			
M	MOTOR	0.0	0.0 NEC	0.0								DEPICTED LOAD BA	SED ON	ASSUMPTIONS OF	
H	HEATING	0.0	0.0 1.00	0.0								EQUIPMENT INSTAL	ED AND	WAS NOT V.I.F.	
AC	HVAC	0.0	0.0 1.00	0.0										REPANCIES PRIOR TO	
EQ	EQUIPMENT	20.2	84.2 1.00	20.2								INSTALLATION OF P			
E	EXISTING	0.5	2.1 1.25	0.6								1			
* ALL FOL	IPMENT LOADS CONSIDERED CONTI			0.0	2.0	ı									

EXISTING PANEL SCHEDULE

SCALE: NOT TO SCALE

T-MOBILE SITE #: 5RA1026A LOCATION: VOLTAGE: 240/120 1Ø MOUNTING / ENCLOSURE: EXISTING / NEMA								VOLTAGE:	240/12	0 1Ø			MOUNTING / ENCLOSURE	:	EXISTING / NEMA 3R	
	PROPOSED			H-FRAME				MAIN C/B:	200	AMPS		,	AVAIL. FAULT CURRENT:	EXISTING	G	
	2/3/2022						В	US RATING:	200	AMPS		Ś	HORT CIRCUIT RATING:	EXISTING	G	
AMPS/ POLES	WIRE & CONDUIT	ТҮРЕ	DI	ESCRIPTION		KVA	СКТ	А		В	скт	KVA	DESCRIPTION	TYPE	WIRE & CONDUIT	AMPS, POLES
				SPACE			1				2		SPACE			
				SPACE			3		1		4		SPACE			
				SPACE			5		1		6		SPACE			
				SPACE			7				8		SPACE			
				SPACE			9	4.96			10	4.96	PROPOSED 6160	EQ	(2) 3/0, (1) #6 G; 2" C	150/2
				SPACE			11		1	4.96	12	4.96		EQ	-	-
100/2	EXISTING	EQ		BTS		0.00	13		l		14	0.00		EQ	-	-
-	-	EQ		-		0.00	15	\square			16	0.00	-	EQ	-	-
10/1	EXISTING	E	L	UNKNOWN		0.50	17	0.68	1		18	0.18	(P) 6160 RECEPTACLE	R	(2)#12, (1)#12 G; 1/2" C	20/1
15/1	EXISTING	R		GFCI		0.18	19	-	1	0.18	20		SPACE	لــــــــا		
20/2	EXISTING	EQ		SURGE		0.10	21	0.10	1		22		SPACE			
-		EQ		-		0.10	23	\longrightarrow	<u> </u>	0.60	24	0.50	LIGHT		EXISTING	20/1
						PHASET	(OTAL	5.7		5.7	KVA	r				
												ļ	TOTAL CONNECTE	.D LOAD	11.5 kVA	48 A
													TOTAL DEMAN	D LOAD	11.7 kVA	49 A
LOAD	DECEMBRICAL	CONN.	LOAD	DEMAND	DESIGNI	LOAD.	1					1				
LOAD TYPE	DESCRIPTION	CONN.		DEMAND FACTOR	DESIGN I	LOAD AMPS						'				
	DESCRIPTION	\vdash										, I	NOTES:			7
		KVA	AMPS	FACTOR	KVA	AMPS 2.6	4						NOTES:			
TYPE L	LIGHTING	KVA 0.5	AMPS 2.1	FACTOR 1.25	KVA 0.6	AMPS	1					'	DEPICTED LOAD BA			
TYPE L R	LIGHTING RECEPTACLE	KVA 0.5 0.4	AMPS 2.1 1.5	FACTOR 1.25 NEC	0.6 0.4	2.6 1.5						'	DEPICTED LOAD BA	ED AND	WAS NOT V.I.F.]
TYPE L R M	LIGHTING RECEPTACLE MOTOR	KVA 0.5 0.4 0.0	AMPS 2.1 1.5 0.0	FACTOR 1.25 NEC NEC	0.6 0.4 0.0	AMPS 2.6 1.5 0.0						'	DEPICTED LOAD BA: EQUIPMENT INSTALL NOTIFY E.O.R. OF AI	ED AND NY DISCI	WAS NOT V.I.F. REPANCIES PRIOR TO]
TYPE L R M H	LIGHTING RECEPTACLE MOTOR HEATING	0.5 0.4 0.0 0.0	2.1 1.5 0.0 0.0	1.25 NEC NEC NEC 1.00	0.6 0.4 0.0 0.0	AMPS 2.6 1.5 0.0 0.0						,	DEPICTED LOAD BA	ED AND NY DISCI	WAS NOT V.I.F. REPANCIES PRIOR TO	





ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

GENERAL ELECTRICAL NOTES

- 1. 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.
- 2. ELECTRICAL SERVICE SHALL BE 200A, 240/120v, 1 P, 3W
- 3. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDER PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.
- 4. 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.
- 5. 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.
- 6. 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
- 7. 6160 ENCLOSURE STANDARD CONFIGURATION INCLUDES (4) 3500W RECTIFIERS. LOAD PROVIDED IN PANEL SCHEDULE IS BASED ON STANDARD (4) PLUS ADDITIONAL (3) CONFIGURATION. IF ADDITIONAL RECTIFIERS ARE REQUIRED, ENGINEER OF RECORD SHALL BE CONTACTED TO DETERMINE ADEQUACY OF EXISTING PANEL FOR ADDITIONAL LOAD
- 8. CONTRACTOR SHALL FIELD VERIFY EXISTING AC PANEL MODEL AND ENSURE 125A, 2P,2-POSITION BREAKER IS COMPATIBLE, CONTACT EOR IF DISCREPANCIES ARE FOUND.
- 9. CONTRACTOR TO FIELD VERIFY ALL EQUIPMENT RATINGS AND WIRE SIZES. IF ANY DISCREPANCIES EXIST, CONTACT ENGINEER PRIOR TO ROUGH IN.

T - Mobile



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

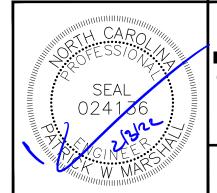
142' WATER TANK T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
0	06/04/21	PRELIM CDs
1	06/09/21	FOR CONSTRUCTION
2	2/3/22	RFDS UPDATE

SITE COORDINATES LAT: 35.25673 LONG: -78.9655

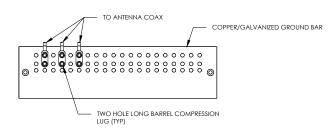
DRAWN: RLB
CHECKED: PWM

.IOB#: 21KTM NNC-0204



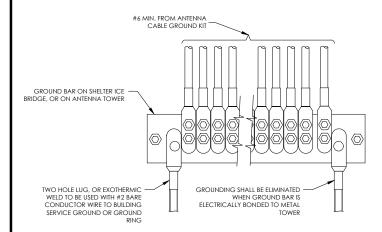
PANEL SCHEDULE & ONE-LINE DIAGRAM

E-2

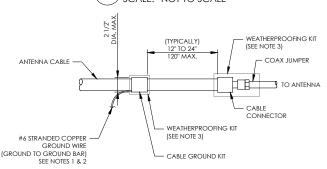


- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

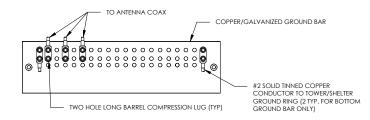
ANTENNA GROUND BAR DETAIL SCALE: NOT TO SCALE



GROUNDWIRE INSTALLATION SCALE: NOT TO SCALE

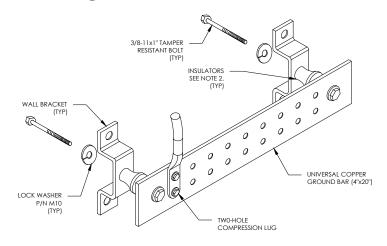


- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 GROUND BAR.
 GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.
 - CABLE GROUND KIT CONNECTION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



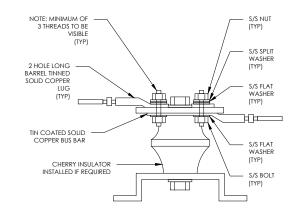
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE



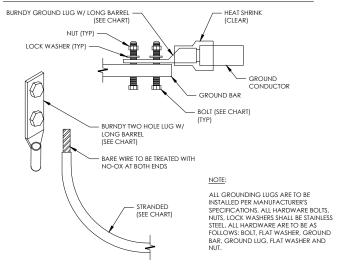
- 1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR
- 2. OMIT INSULATOR WHEN MOUNTING TO TOWER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

GROUND BAR DETAIL SCALE: NOT TO SCALE

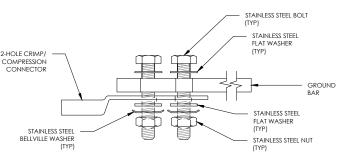




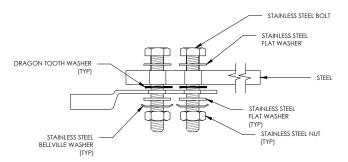
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



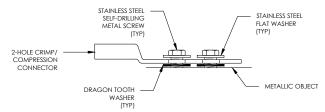
MECHANICAL LUG CONNECTION 3) SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

HARDWARE DETAIL FOR EXTERIOR CONNECTIONS SCALE: NOT TO SCALE

T - Mobile-



LOCATION:

6792 OVERHILLS RD SPRING LAKE, NC 28390

T-MOBILE:

L-SPRINT RA74XC058 5RA1026A

SITE TYPE:

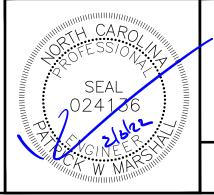
142' WATER TANK T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
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DRAWN: RLB CHECKED: PWM

21KTM_NNC-0204 IOR#



GROUNDING DETAILS

G-1