

COMPLIANCE CODE



ATC SITE NAME: CHALYBEATE SPRINGS NC

ATC SITE NUMBER: 21268

PROJECT SUMMARY

T-MOBILE SITE NAME: CHALYBEATE SPRINGS

T-MOBILE SITE NUMBER: 5RA0165A

SITE ADDRESS: 512 CHALYBEATE ROAD

FUQUAY VARINA, NC 27526-6035



LOCATION MAP

SHEET INDEX

T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN 67D5A998E ODE+6160 CONFIGURATION

PROJECT DESCRIPTION

| ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE | SITE ADD | | THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: | SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: |
|--|--|--|--|--------------|--------------------------------|------|----------|-----|
| FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS | 512 CHALYBE | | TOWER WORK: REMOVE (3) ANTENNA(s), (3) RRU(s), (3) TTA(s), AND (6) 1-5/8" COAX | G-001 | TITLE SHEET | 0 | 10/21/21 | JL |
| TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. | FUQUAY VARINA, | | CABLE(s) | G-002 | GENERAL NOTES | 0 | 10/21/21 | JL |
| 2018 NORTH CAROLINA BUILDING CODE (NCBC) | COUNTY: H | | INSTALL (6) ANTENNA(s), (6) RRU(s), AND (2) 6X12 (1-5/8") FIBER | G-003 | APPENDIX B | 0 | 10/21/21 | JL |
| 2. 2017 NATIONAL ELECTRIC CODE (NEC) WITH NC | GEOGRAPHIC CO | | CABLE(s) | G-004 | APPENDIX B | 0 | 10/21/21 | JL |
| AMENDMENTS | | | EXISTING (3) ANTENNA(s), AND (1) 6X12 (1-5/8") FIBER CABLE(s) TO REMAIN | | | | | |
| LOCAL BUILDING CODE CITY/COUNTY ORDINANCES | LONGITUDE: -78.81734339 | | · - · · · · · | G-005 | APPENDIX B | 0 | 10/21/21 | JL |
| 4. CITT/COUNTY ORDINANCES | GROUND ELEVATI | ON: 343' AMSL | GROUND WORK: INSTALL (1) ENCLOSURE 6160 CABINET, (1) B160 BATTERY CABINET. | G-006 | APPENDIX B | 0 | 10/21/21 | JL |
| | | | (1) BB 6648, (1) PSU 4813, (1) XMU AND (1) IXRe ROUTER IN NEW 6160 CABINET | G-007 | APPENDIX B | 0 | 10/21/21 | JL |
| | | | EXISTING (1) RBS 6201 ODE CABINET TO REMAIN | C-101 | DETAILED SITE PLAN | 0 | 10/21/21 | JL |
| | | | 2.10.1.116 (1) 1.00 022 1.00 2.111 1.11 1.111 1.111 | C-102 | DETAILED GROUND PLAN | 0 | 10/21/21 | JL |
| | PROJEC1 | TEAM | PROJECT NOTES | C-201 | TOWER ELEVATION | 0 | 10/21/21 | JL |
| LITH IT COMPANIES | TOWER OWNER: | APPLICANT: | THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A | C-401 | ANTENNA INFORMATION & SCHEDULE | 0 | 10/21/21 | JL |
| UTILITY COMPANIES | AMERICAN TOWER | T-MOBILE | MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND | C-501 | CONSTRUCTION DETAILS | 0 | 10/21/21 | JL |
| POWER COMPANY: PROGRESS ENERGY PHONE: (800) 452-2777 | 10 PRESIDENTIAL WAY WOBURN, MA 01801 | 2105 WATER RIDGE PKWY CHARLOTTE, NC 28217 | DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER. POTABLE WATER OR TRASH DISPOSAL | C-502 | CONSTRUCTION DETAILS | 0 | 10/21/21 | JL |
| TELEPHONE COMPANY: EMBARQ | ENGINEER: | | IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. | E-501 | GROUNDING DETAILS | 0 | 10/21/21 | JL |
| PHONE: (800) 786-6272 | DELTA OAKS GROUP, PLLC | | THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED | R-601 | SUPPLEMENTAL | 0 | 10/21/21 | JL |
| | 4904 PROFESSIONAL COURT RALEIGH, NC 27609 | | REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE | R-602 | SUPPLEMENTAL | 0 | 10/21/21 | JL |
| 044 | PROPERTY OWNER: | | COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL | R-603 | SUPPLEMENTAL | 0 | 10/21/21 | JL |
| | T8 UNISON SITE MANAGEMENT LLC | | CHANGE UNDER CFR § 1.61000 (B)(7). | R-604 | SUPPLEMENTAL | 0 | 10/21/21 | JL |
| | 512 CHALYBEATE ROAD FUQUAY VARINA, NC 27526 | | PROJECT LOCATION DIRECTIONS | | | | <u> </u> | |
| Know what's below. | | | FROM FAYETTEVILLE: TAKE HWY 210 NORTH THROUGH LILLINGTON TO THE INTERSECTION OF 210 AND US 401. TAKE | | | | | |
| Call before you dig. | | | US 401 NORTH APPROX 6 AND TURN LEFT ONTO CHALYBEATE RD., FOLLOW AROUND TO TOWER ON LEFT. | | | | | |
| | T. Control of the Con | | The state of the s | 1 | | 1 | | 1 |





DELTA OAKS GROUP, PLLC 4904 PROFESSIONAL COURT RALEIGH, NC 27609 PHONE: (919) 342-8247 WWW.DELTAOAKSGROUP.COM

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| - | , - | | |
|---------------------|------------------|----|----------|
| REV. | DESCRIPTION | BY | DATE |
| \triangle _ | FOR CONSTRUCTION | JL | 10/21/21 |
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ATC SITE NUMBER: 21268

ATC SITE NAME:
CHALYBEATE SPRINGS NC

T-MOBILE SITE NAME:

CHALYBEATE SPRINGS

SITE ADDRESS: 512 CHALYBEATE ROAD FUQUAY VARINA, NC 27526-6035



T · · Mobile ·

| DATE DRAWN: | 10/21/21 |
|--------------|--------------------|
| ATC JOB NO: | 13731655_G3 |
| CUSTOMER ID: | CHALYBEATE SPRINGS |
| CUSTOMER #: | 5RA0165A |

TITLE SHEET

SHEET NUMBER:

G-001

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - AC/TELCO INTERFACE BOX (PPC)
 - ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - TOWER LIGHTING
 - GENERATORS & LIQUID PROPANE TANK
 - ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - ANTENNAS (INSTALLED BY OTHERS)
 - TRANSMISSION LINE
 - TRANSMISSION LINE JUMPERS
 - TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - TRANSMISSION LINE GROUND KITS
 - HANGERS
 - HOISTING GRIPS
 - O. BTS EQUIPMENT
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS GROUNDING RINGS GROUNDING WIRES COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING,
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION LISING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) ITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WOR
- PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP 3. TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS
- 31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR
 MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS
- T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE. NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTEC AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
- T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY 33. EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- WORK INCLUDED
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT, THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RES "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR

ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ELECTRICAL NOTES:

- ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
- ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OF ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.





DELTA OAKS GROUP, PLLC 4904 PROFESSIONAL COURT RALEIGH, NC 27609 PHONE: (919) 342-8247 WWW.DELTAOAKSGROUP.COM

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| REV. | DESCRIPTION | BY | DATE |
|---------------------|------------------|------|----------|
| <u> </u> | FOR CONSTRUCTION | _JL_ | 10/21/21 |
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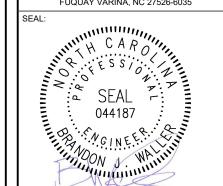
ATC SITE NUMBER: 21268

ATC SITE NAME: CHALYBEATE SPRINGS NC

T-MOBILE SITE NAME:

CHALYBEATE SPRINGS

SITE ADDRESS: 512 CHALYBEATE ROAD FUQUAY VARINA, NC 27526-6035



DATE DRAWN: | 10/21/21 ATC JOB NO: 13731655 G3 CUSTOMER ID: CHALYBEATE SPRINGS CUSTOMER #: 5RA0165A

GENERAL NOTES

SHEET NUMBER:

G-002

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)

| | T HODILE LIDEDADE DOO | IECT CITE ID ED A04/E | | | |
|---------------------------------|-----------------------------|---------------------------------------|---------------------------------------|-----------------------|----------------------------|
| - | T-MOBILE UPGRADE PROJ | | <u> </u> | | 27524 |
| | HALYBEATE ROAD, FUQUAY VAI | | | Zip Cod | |
| | nzed Agent AMERICAN TOWER | | 919) 468 - | 0112 E-Mail A | E@AMERICANTOWER.COM |
| Owned By: | _ | City/County | X | Private | State |
| Code Enforce | ment Jurisdiction: (| City | $_{\perp}$ | County HARNETT | State |
| | | | | | |
| CONTACT: | | | | | |
| DESIGNER | FIRM | NAME | LICENSE# | TELEPHONE # | E-MAIL |
| Architectural | 1 1001 | POLICE | ESCENSE IF | () | E-MEALE. |
| Civil | DELTA OAKS GROUP, PLLC | BRANDON WALLER, PE | 44187 | (919) 342-8247 | BWALLER@DELTAOAKSGROUP.COM |
| Electrical | | | | | |
| Fire Alarm | 3 | | _ | | |
| Plumbing | | | | _ <u> </u> | |
| Mechanical | | | - | ــــب | - |
| Sprinkler-Stand | pipe | | | - (| |
| Structural Retaining Walls | >S High | • - | | - 느;— | |
| Other | Ingii | | - | | - |
| | d include firms and indivi | duals such as truss, | precast, pre-eng | gineered, interior de | signers, etc.) |
| | | | | | |
| 2018 NC CO | DE FOR: | ew Construction | Addition | Renovation | n |
| | 1º | * Time Interior Co | ompletion | | |
| | □ S | hell/Core | | | |
| | Пр | hased Constructio | n – Shell/Core | 1 | |
| | | | / \ | | |
| 2018 NC EXT | STING BUILDING C | ODE: Present | ntinz | | Chapter 14 |
| 2010110 212 | Alterat | inn Tresti | | \ \ \ \ \ \ \ | Level III |
| | Alterat | Ion: Level | \mathcal{C} |) / | |
| | | | 14 | _ | Change of Use |
| | STRUCTED:(date) | ─ /\ > | · . 0'/ | ANCY(S) (Ch. 3) | |
| | OVATED: (date) | -/2/ | OPA (OPA | ANCY(S) (Ch. 3): | |
| RISK CATE | GORY (table 1604.5) | / \ 0 | $\mathcal{O} / \square_{\mathrm{II}}$ | . □ . III | |
| | | | ' / □¤ | III 🔲 III | |
| | / | Α Υ 2 | / | | |
| DACTO DITT | DING DATA | enovation ODE: Prescription: Level I | | | |
| | DING DATA Type: I-A | 42/ | ПШ-А | Ппи | |
| Construction (check all that | apply) I-B | II-B | III-B | □IV | V-A V-B |
| Sprinklers: | □ No □ Partial □ | NF □ NF | | NFPA 13R N | |
| Standpipes: | No Yes Cl | | | Wet Dry | |
| Fire District: | | | | rd Area: ☐ No | . ¬v |
| | | | t 100d Hazai | ru Area: No | ⊃ ∐ 1es |
| Special Inspec | tions Required: N | o Yes | | | |
| 2018 NC Admin | istrative Code and Policies | | | Appendix B | for Building |

| | | Gross Buildin | ng Area: | |
|-----------------------|------------------------------|--|---|-------------------------------|
| Eroon | Director (no | | | Frm Tomar |
| FLOOR | EXISTING (SQ | NEW (SQFT) | RENO/ALTER | SUB-TOTAL |
| 6th Floor | FT) | | (SQ.FT) | |
| 5th Floor | | | | |
| 4 th Floor | | | | |
| 3rd Floor | | | | |
| 2 nd Floor | | | | |
| Mezzanine | | | | |
| 1st Floor | | | | |
| Basement | | | | |
| TOTAL | | | | |
| | | | | |
| | | | | |
| | | ALLOWABL | E AREA | |
| Primary Occu | pancy Classification: | | | |
| Assembly | A-1 A-2 A | -3 🔲 A-4 🔲 A-5 | | |
| Business | | | \wedge | |
| Educationa | al 🗌 | F-2 Low H-2 Deflagrate 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| Factory | F-1 Moderate | F-2 Low | / | |
| Hazardous | H-1 Detonate | H-2 Deflagrate | _H4H | lealth H-5 HPM |
| Institutiona | al I-1 Condition |]1 🗆 2 / | (^/ | |
| | 1-2 Condition |]1 | | |
| | 1-3 Condition |]1 / | $A \square 5$ | |
| | □ 1-4 | - / .\ \ | | |
| Mercantile | | 1, 14 | V / | |
| Residentia | 1 R-1 R-2 R- | 3/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ' / | |
| Storage | S-1 Moderate | | ow High-piled | |
| _ | Parking Garage | ∠ V ∠los | ed Repair Garage | |
| Utility and | Miscellaneous | | | |
| - | pancy Classificati | 70 | | |
| • | CT-L1- COM- | / | | |
| Incidental Uses | (1able 505). | | | |
| | hapter 4 – List Code Secti | V — | | |
| Special Provisio | ns: (Chapter 5 – List Cod | e Sections): | | |
| Mixed Occupar | icy: No | Yes Separation | : Hr. Exception: | |
| Non-Set | parated Use (508.3) | | | |
| The requ | ired type of construction : | for the building shall b | e determined by applying th | e height and area limitations |
| | | | ing. The most restrictive typ | |
| determin | ied, shall apply to the enti | re building. | | |
| | ed Use (508.4) - | | | |
| | | | f the occupancy shall be suc | |
| ratios of | the actual floor area of ea | ch use divided by the a | illowable floor area for each | use shall not exceed 1. |
| | -1 410 1 | I I I I | -40 | |
| | al Area of Occupancy A | | $\frac{\text{of }Occupancy }{B} \leq 1$ | |
| Allowa | ble Area of Occupancy A | Auowabie Area | of Occupancy B | |
| | | + | + | =≤1.00 |

Appendix B for Building

2018 NC Administrative Code and Policies

AMERICAN TOWER®



DELTA OAKS GROUP, PLLC 4904 PROFESSIONAL COURT RALEIGH, NC 27609 PHONE: (919) 342-8247 WWW.DELTAOAKSGROUP.COM

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ATC SITE NUMBER: 21268

ATC SITE NAME: CHALYBEATE SPRINGS NC

T-MOBILE SITE NAME:

CHALYBEATE SPRINGS

SITE ADDRESS: 512 CHALYBEATE ROAD FUQUAY VARINA, NC 27526-6035



| DATE DRAWN: | 10/21/21 |
|--------------|--------------------|
| ATC JOB NO: | 13731655_G3 |
| CUSTOMER ID: | CHALYBEATE SPRINGS |
| CUSTOMER #: | 5RA0165A |
| | |

APPENDIX B

SHEET NUMBER:

G-003

REVISION:

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| STORY NO. | DESCRIPTION AND USE | (A) BLDG AREA PER STORY (ACTUAL) | (B) TABLE 506.24 AREA | (C) AREA FOR FRONTAGE INCREASE ^{1,5} | (D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3} |
|--------------|------------------------|--|-----------------------------|---|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| 1 | Frontage | area increase | s from | Section | 506.3 | are | computed | thus |
|---|-----------------|---------------|--------|---------|-------|-----|----------|------|
|---|-----------------|---------------|--------|---------|-------|-----|----------|------|

| 3. | Perimeter which fronts a | public way or open | space having 20 fee | t minimum width = | (F |
|----|--------------------------|--------------------|---------------------|-------------------|----|
|----|--------------------------|--------------------|---------------------|-------------------|----|

b. Total Building Perimeter

c. Ratio (F/P) =

d. W = Minimum width of public way =

e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30 =$

Unlimited area applicable under conditions of Section 507.

Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

4 The maximum area of open parking garages must comply with Table 406.5.4

Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE / ALLOWABLE CODE REFERENCE (TABLE 57 Building Height in Feet (Table 504.3) Building Height in Stories (Table 504.4) ed on Table 504.3 or 504.4. with Table 412.3.1 Provide code reference if the "Show on Ply ² The maximum height of air traffic cont 3 The maximum height of open parkin with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

| BUILDING ELEMENT | FIRE SEPARATION | REQ'D | RATING PROVIDED | DETAIL # | DESIGN# FOR | DESIGN # FOR RATED | DESIGN# FOR |
|---|--------------------|---------------|--------------------|--------------|-------------------|-----------------------|-----------------|
| | DISTANCE (FEET) | | (W/ * REDUCTION) | SHEET# | RATED ASSEMBLY | PENETRATION | RATED JOINTS |
| Structural Frame, | | | | | | | |
| including columns, girders, | | | | | | | |
| trusses | | | | | | | |
| Bearing Walls | | | | | | | |
| Exterior | | | | | | | |
| North. | | | | | | | |
| East | | | | | | | |
| West | | | | | | | |
| South. | | | | | | | |
| Interior | | | | | | | |
| Nonbearing Walls and Partitions | | | | | | | |
| Exterior walls | | | | | | | |
| North. | | | | | | | |
| East | | | | | | | |
| West | | | | \Box | | | |
| South. | | | | | | | |
| Interior walls and partitions | | | | | | | |
| Floor Construction | | | | | | | |
| Including supporting beams | | | / | (. | | | |
| and joists | | | | 70 | | | |
| Floor Cailing Assembly | | | | | | | |
| Column Supporting Floors | | | | ソ `/「 | | | |
| Roof Construction, including | | - | 71 11 | //_ | | | |
| supporting beams and joists | | | \ \\ | | | | |
| Roof Coiling Assembly | | | | | | | |
| Column Supporting Roof | | _ | | | | | |
| Shaft Enclosures - Exit | | Á | | | | | |
| Shaft Enclosures - Other | | 40 | A BUIL | | | | |
| Corridor Separation | | ` / | | | | | |
| Occupancy/Fire Barrier Separation | | $\overline{}$ | | | | | |
| Party/Fire Wall Separation | | | | | | | |
| Smoke Barrier Separation | | | | | | | |
| Smoke Partition | | | | | | | |
| Tenant/Dwelling Unit/ Sleeping Unit/Separation | | | | | | | |
| Incidental Use Separation | | | İ | | | 1 | |

Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

| FIRE SEPARATION DISTANCE (FEET FROM PERPERTY LINES | DEGREES OF OPENINGS PROTECTION (TABLE 703.8) | ALLOWABLE AREA (%) | ACTUAL SHOWN ON PLANS (%) |
|--|--|-----------------------|------------------------------|
| | | | |
| | | | |
| | | | |

2018 NC Administrative Code and Policies Appendix B for Building 2018 NC Administrative Code and Policies Appendix B for Building





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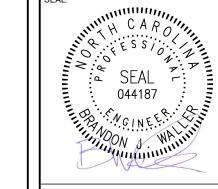
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| CUSTOMER #: | 5RA0165A |

APPENDIX B

SHEET NUMBER:

G-004

0

| LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting: No Yes Exit Signs: No Yes Fire Alarm: No Yes | | | | | | |
|---|----|--|--|--|--|--|
| Smoke Detection Systems: No Yes Partial Carbon Monoxide Detection: No Yes | | | | | | |
| LIFE SAFETY PLAN REQUIREMENTS | | | | | | |
| Life Safety Plan Sheet #: | | | | | | |
| Fire and/or smoke rated wall locations (Chapter 7) | | | | | | |
| Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines (705.8) | | | | | | |
| Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2) | | | | | | |
| ☐ Occupant loads for each area ☐ Exit access travel distances (1017) | | | | | | |
| Common path of travel distances (1006.2.1 & 2006.3.2(1)) | | | | | | |
| Dead end lengths (1020.4) | | | | | | |
| ☐ Clear exit widths for each exit door ☐ Maximum calculated occupant load capacity each ex te based on egress width (1005.3) | | | | | | |
| Actual occurrent lead for each exit door | | | | | | |
| A separate schematic plan indicating where fit occupancy separation and supporting const Location of doors with panic hardware | of | | | | | |
| occupancy separation and supporting const Location of doors with panic hardware | | | | | | |
| Location of doors with delayed egre of delay (1010.1.9.7) | | | | | | |
| ☐ Location of doors with electroms ☐ Location of doors equipped w | | | | | | |
| Location of emergency esc. | | | | | | |
| The square footage of each fir. | | | | | | |
| The square footage of each smok ment for Occupancy Classification I-2 (407.5) Note any code exceptions or table no that may have been utilized regarding the items above | | | | | | |
| 1 Total any code exceptions of table notes that may have been united regarding the frems above | | | | | | |
| Section/Table/Note Title | | | | | | |
| | | | | | | |
| L | | | | | | |
| | | | | | | |
| ACCESSIBLE DWELLING UNITS | | | | | | |
| (SECTION 1107) | | | | | | |
| TOTAL ACCESSIBLE ACCESSIBLE TYPE A TYPE B TYPE B TOTAL | | | | | | |
| Units Units Units Units Units Units Units Accessible Units Required Provided Required Provided Provided Provided | | | | | | |
| | | | | | | |
| | | | | | | |

ACCESSIBLE PARKING

Appendix B for Building

2018 NC Administrative Code and Policies

(SECTION 1106)

| LOT OR PARKING | TOTAL # OF PA | RKING SPACES | # OF ACCESSIBLE SPACES PROVIDED | | | TOTAL # | |
|----------------|---------------|--------------|---------------------------------|----------------------|--------------------|------------|--|
| AREA | REQUIRED | PROVIDED | REGULAR WITH | VAN SPACES WITH | | ACCESSIBLE | |
| | | | 5' ACCESS AISLE | 132" ACCESS AISLE | 8' ACCESS AISLE | PROVIDED | |
| | | | | | | | |
| | | | | | | | |
| TOTAL | | | | | | | |

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

| USE | | 1 | WATERCLOS | TERCLOSETS URINALS | | LAVATORIES | | | SHOWERS | DRINKING FOUNTAINS | |
|-------|---------|------|-----------|--------------------|--|------------|--------|--------|---------|--------------------|------------|
| | | MALE | FEMALE | UNISEX | | MALE | FEMALE | UNISEX | / TUBS | REGULAR | Accessible |
| SPACE | EXIST G | | | | | | | | | | |
| | NEW | | | | | | | | | | |
| | REQ D | | | | | | | | | | |

| <u> </u> |
|---|
| SPECIAL APPRO |
| Special approval: (Local Jurisdiction, Department of Insuran ICC, etc., describe below) |
| MAJILDII |
| |
| WOT Y |
| |

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| CUSTOMER #: | 5RA0165A |

APPENDIX B

SHEET NUMBER:

REVISION: 0

G-005

2018 NC Administrative Code and Policies

ENERGY SUMMARY

ENERGY REQUIREMENTS:

| The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation 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: No Yes (The remainder of this section is not applicable) |
| Exempt Building: No Yes (Provide Code or Statutory reference): |
| Climate Zone: 3A 4A 5A |
| Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive (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 skylight: Total square footage of skylight: Description of assembly Living of total |
| Description of assembly: |
| U-Value of total assembly: |
| R-Value of insulation: |
| Skylights in each assembly: U-Value of skylight: |
| Total square footage of skyliz |
| Total square trotage of sa/iii |
| Exterior Walls (each assembly) |
| Description of asser |
| C- varie of total |
| R-Value of insul |
| Openings (windows U-Value of as |
| Solar heat gain coefficient: |
| Projection factor: |
| Door R-Values: |
| |
| Walls below grade (each assembly) |
| Description of assembly: |
| U-Value of total assembly: R-Value of insulation: |
| 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: |
| 2018 NC Administrative Code and Policies Appendix B for Building |

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

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

| DESIGN LOADS: | | | | | |
|---|--|--|-------------|-----------------------------------|--------|
| Importance Factors: | Snow (Is) Seismic (I _E) | | | | |
| Live Loads: | Roof Mezzanine Floor | psf | | | |
| Ground Snow Load: | psf | | | | |
| | imate Wind Spee posure Category | | | (ASCE-7) | |
| SEISMIC DESIGN CATEGORY | r : | | | D | |
| Provide the following Seismic Des | ign Parameters:/ | | À. / | | |
| Risk Category (Table 16 Spectral Response Accel Site Classification (ASC Data Basic structural system | 04.5) | HIAUI ABUII | Presumpuve | %g E | e |
| | | ing Frame | | termediate R/C or Sp | |
| Analysis Procedure: Architectural, Mechanic | | oment Frame Simplified anchored? | - | endulum nt Lateral Force No | Dynami |
| LATERAL DESIGN CONTROL | .: Earthq | uake 🗌 | Wind _ | | |
| SOIL BEARING CAPACITIES: Field Test (provide copy) | - | | psf | | |
| Presumptive Bearing caps | | | | | |
| Pile size, type, and capaci | | | · | | |
| | | | | | |

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| | ш | CUSTOMER #: | 5RA0165A |

APPENDIX B

SHEET NUMBER:

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G-006

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN (PROVIDE ON THE MECHANICL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

| MECHANICAL | SYSTEMS. | SERVICE | SYSTEMS | AND EC | DUIPMENT |
|------------|----------|---------|---------|--------|----------|
| | | | | | |

| Thermal Zone |
|---|
| winter dry bulb: |
| summer dry bulb: |
| James de y Outre. |
| Interior design conditions |
| winter dry bulb: |
| summer dry bulb: |
| relative humidity: |
| |
| Building heating load: |
| |
| Building cooling load: |
| Daniang Coome Town. |
| , |
| Machanical Spacing Conditioning System |
| Mechanical Spacing Conditioning System |
| Unitary |
| Unitary description of unit |
| Unitary description of unit: heating efficiency: |
| Unitary description of unit: |
| Unitary description of unit: heating efficiency: |
| Unitary description of unit: heating efficiency: cooling efficiency: |
| Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler |
| Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If |
| Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If Chiller |
| Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If |
| Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If Chiller Size category Leason.: |
| Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If Chiller |

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

| FΤ | EC | TRI | CAT | SVST | EM A | IND | FOIL | PMENT | |
|------|----|-----|-----|------|------|-----|--------------------|-------|--|
| Е. І | _ | | - | 3131 | | | E-COLUMN TO SECOND | | |

| Method of Compliance: Energy Code: Prescriptive Performance |
|---|
| ASHRAE 90.1: Prescriptive Performance |
| |
| 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 specified vs. allowed (whole by g or space by space) |
| total exterior wattage specified vs. allowed |
| |
| Additional Efficiency Package Options |
| Additional Efficiency Package Options (When using the 2018 NCECC; not required for C406.2 More Efficient Mechanics) C406.3 Reduced Lighting Pow C406.4 Enhanced Digital Lighting Pow C406.5 On Sire Renewal |
| C406.2 More Efficient Mechanics |
| C406.3 Reduced Lighting Pow |
| C406.4 Enhanced Digital Li |
| C406.5 On-Site Renewal |
| C406.6 Dedicated Ov |
| = , V / |
| C406.7 Reduced F |
| |
| |
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APPENDIX B

SHEET NUMBER:

G-007

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SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT

LEGEND

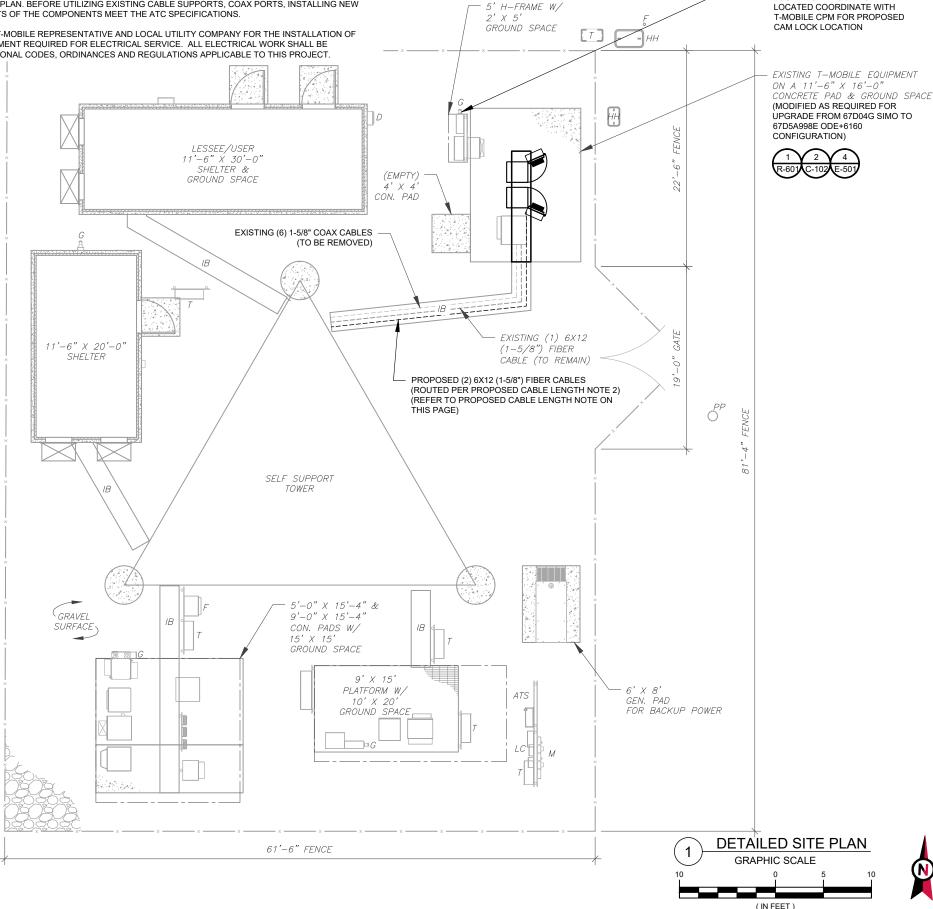
| 8 | GROUNDING TEST WELL |
|-------|---------------------------|
| ATS | AUTOMATIC TRANSFER SWITCH |
| В | BOLLARD |
| CSC | CELL SITE CABINET |
| D | DISCONNECT |
| E | ELECTRICAL |
| F | FIBER |
| GEN | GENERATOR |
| G | GENERATOR RECEPTACAL |
| HH, V | HAND HOLE, VAULT |
| IB | ICE BRIDGE |
| K | KENTROX BOX |
| LC | LIGHTING CONTROL |
| M | METER |
| PB | PULL BOX |
| PP | POWER POLE |
| T | TELCO |

TRANSFORMER

CHAINLINK FENCE

PROPOSED CABLE LENGTH:

- ESTIMATED LENGTH OF PROPOSED CABLE IS <u>340'</u>. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG)



T-MOBILE





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| $ \leftarrow -$ | | | |
| $\downarrow \sim$ | | | |
| A = A | | | |
| $I\triangle$ _ | | | |

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CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING CAM

LOCK. IF CAM LOCK NOT

1 UNIT = 10 FEET



T-Mobile

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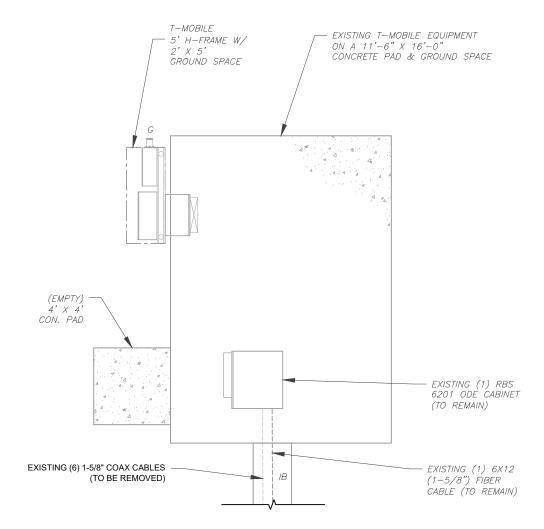
DETAILED SITE PLAN

SHEET NUMBER:

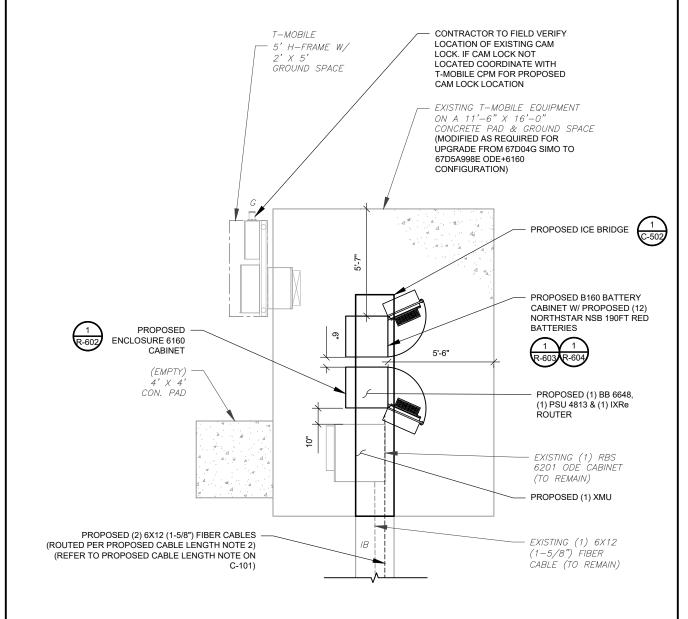
C-101

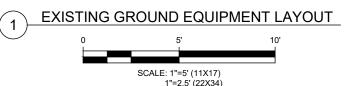
SITE PLAN NOTES:

- CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
- 2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
- 3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
- 4. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.



T-MOBILE CM APPROVAL REQUIRED BEFORE INSTALLING CABINETS















DELTA OAKS GROUP, PLLC 4904 PROFESSIONAL COURT RALEIGH, NC 27609 PHONE: (919) 342-8247 WWW.DELTAOAKSGROUP.COM

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| REV. | DESCRIPTION | BY | DATE |
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| <u> </u> | FOR CONSTRUCTION | JL | 10/21/21 |
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ATC SITE NUMBER: 21268

ATC SITE NAME: CHALYBEATE SPRINGS NC

T-MOBILE SITE NAME:

CHALYBEATE SPRINGS

SITE ADDRESS: 512 CHALYBEATE ROAD FUQUAY VARINA, NC 27526-6035

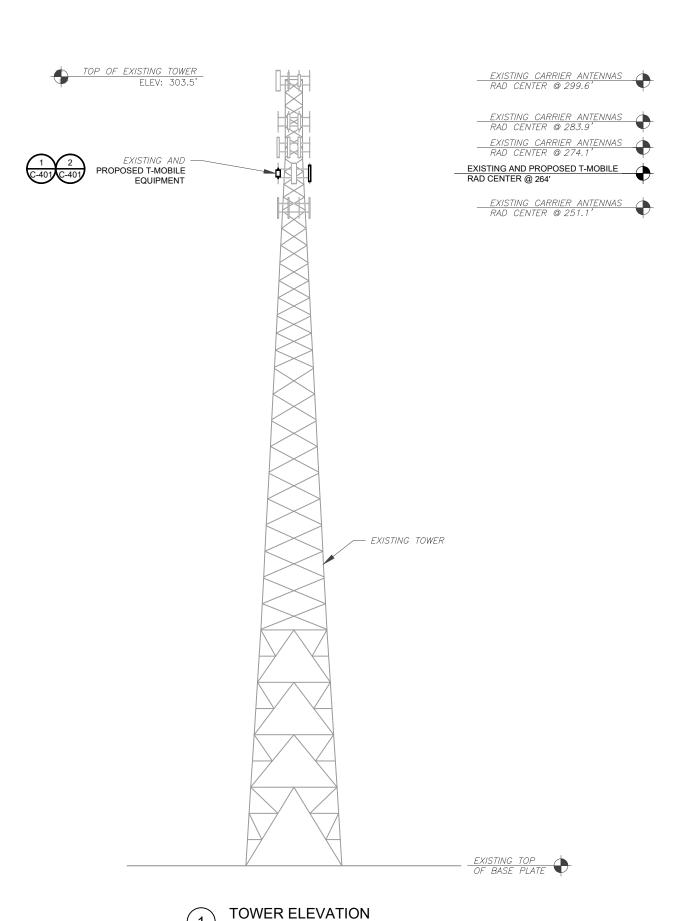


| | П | DATE DRAWN: | 10/21/21 |
|---|---|--------------|--------------------|
| | П | ATC JOB NO: | 13731655_G3 |
| | П | CUSTOMER ID: | CHALYBEATE SPRINGS |
| ı | П | CUSTOMER #: | 5RA0165A |

DETAILED GROUND PLAN

SHEET NUMBER:

C-102



SCALE: N.T.S.

NEITHER ATC NOR DELTA OAKS GROUP HAVE ANALYZED THE EXISTING ANTENNA MOUNT(S) TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR PROPOSED CARRIER LOADING.

- TOWER NOTE:

 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- 2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
- 4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)





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ATC SITE NUMBER: 21268

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CHALYBEATE SPRINGS

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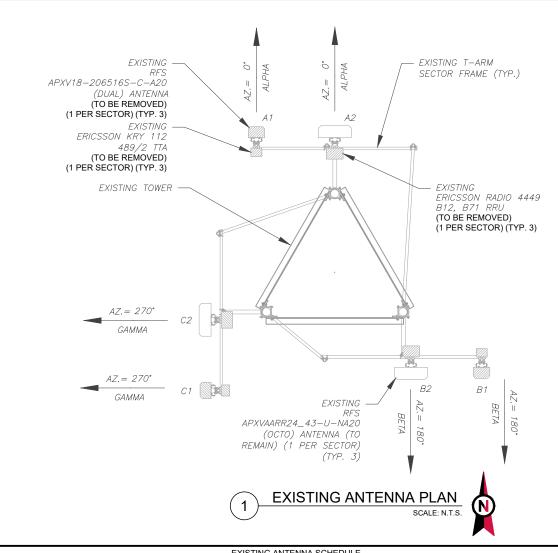
| DATE DRAWN: | 10/21/21 |
|--------------|--------------------|
| ATC JOB NO: | 13731655_G3 |
| CUSTOMER ID: | CHALYBEATE SPRINGS |
| CUSTOMER #: | 5RA0165A |

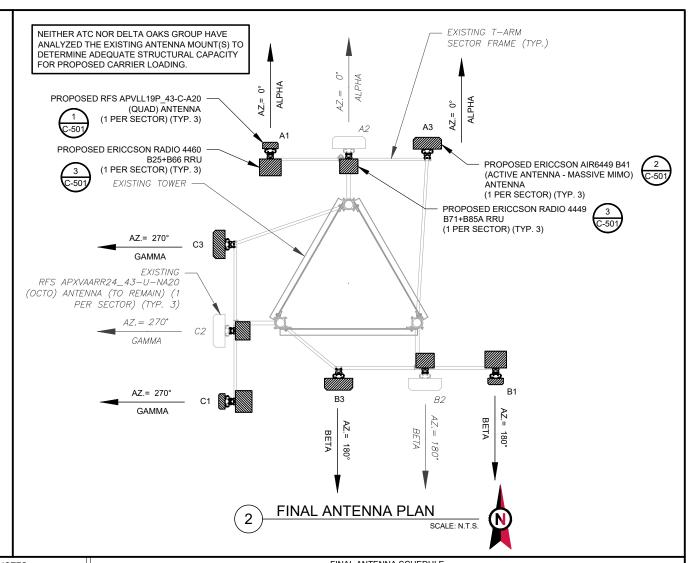
TOWER ELEVATION

SHEET NUMBER:

REVISION

C-201





| | | | EXIS | STING ANTENNA SCHE | DULE | | | | NOTES | | | | | FINA | L ANTENNA SCHE | DULE | | | | | | | | | | | |
|------------|------|-----|---------------------------------------|--------------------|---------------------|--------|------------------------------------|--------|---|----------------------|----------------------|----------------------|----------------------|--|---------------------------------------|-------------------------|----------------------|------------------------------------|---------------------------------|------|----|---------------------------------------|------------|-------|-----|---------------------------------|-----|
| LOCATION | | | ANTEN | NNA SUMMARY | | | NON ANTENNA SUMM | MARY | 1. CONFIRM WITH T-MOBILE REP | LO | CATION | | | ANTENNA | A SUMMARY | | | NON ANTENNA SUMM | ARY | | | | | | | | |
| ECTOR RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS | MOST RECENT RFDS FOR NSN | SECTOR | RAD | AZ F | POS | ANTENNA | BAND | MECH/ELE C D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS | | | | | | | | |
| | | A1 | RFS APXV18-206516S-C-A20 (DUAL) | L1900, G1900 | 0°/3° | RMV | ERICSSON KRY 112 489/2 | RMV | CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS. 2. CONFIRM SPACING OF | | | | A1 | RFS APVLL19P_43-C-A20 (QUAD) | L2100, G1900, L1900 | 0°/3° | ADD | ERICCSON RADIO 4460 B25+B66 | ADD | | | | | | | | |
| ALPHA 264' | 0° | A2 | RFS APXVAARR24_43-U-NA20 (OCTO) | L600, N600 | 0°/2° | RMN | ERICSSON RADIO 4449 B12, B71 | RMV | PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS. | ALPHA | 264' | 0° | A2 | RFS APXVAARR24_43-U-NA20 (OCTO) | L600, N600 | 0°/2° | RMN | ERICCSON RADIO 4449 B71+B85A | ADD | | | | | | | | |
| | | A3 | - RFS | _ | _ | _ | - | _ | | 1 | | | А3 | ERICCSON AIR6449 B41 (ACTIVE ANTENNA - MASSIVE MIMO) | L2500, N2500 | 0°/0° | ADD | - | - | | | | | | | | |
| | | B1 | APXV18-206516S-C-A20 (DUAL) | L1900, G1900 | 0°/3° | RMV | ERICSSON KRY 112 489/2 | RMV | STATUS ABBREVIATIONS RMV: TO BE REMOVED | | | | B1 | RFS APVLL19P_43-C-A20 (QUAD) | L2100, G1900, L1900 | 0°/3° | ADD | ERICCSON RADIO 4460 B25+B66 | ADD | | | | | | | | |
| BETA 264' | 180° | B2 | RFS APXVAARR24_43-U-NA20 (OCTO) | L600, N600 | 0°/2° | RMN | ERICSSON RADIO 4449 B12, B71 | RMV | RMN: TO REMAIN REL: TO BE RELOCATED ADD: TO BE ADDED | REL: TO BE RELOCATED | REL: TO BE RELOCATED | REL: TO BE RELOCATED | REL: TO BE RELOCATED | BETA | 264' | 180° | B2 | RFS APXVAARR24_43-U-NA20 (OCTO) | L600, N600 | 0°/2° | RMN | ERICCSON RADIO 4449 B71+B85A | ADD |
| | | В3 | _ | _ | - | _ | - | _ | | | | | В3 | ERICCSON AIR6449 B41 (ACTIVE ANTENNA - MASSIVE | L2500. N2500 | 0°/0° | ADD | | | | | | | | | | |
| | | C1 | RFS APXV18-206516S-C-A20 | L1900. G1900 | 0°/2° | RMV | ERICSSON KRY 112 | RMV | CABLE LENGTHS FOR JUMPERS | | | | ВЗ | MIMO) | L2300, N2300 | 0 /0 | ADD | <u>-</u> | - | | | | | | | | |
| MMM 264' | 270° | - | (DUAL) RFS | | | | 489/2 | | JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10' | | | | C1 | RFS APVLL19P_43-C-A20 (QUAD) | L2100, G1900, L1900 | 0°/3° | ADD | ERICCSON RADIO 4460 B25+B66 | ADD | | | | | | | | |
| GAMMA 264' | 270 | C2 | APXVAARR24_43-U-NA20 (OCTO) | L600, N600 | 0°/3° | RMN | ERICSSON RADIO 4449 B12, B71 | RMV | | | GAMMA | 264' | 270° | C2 | RFS APXVAARR24_43-U-NA20 (OCTO) | L600, N600 | 0°/2° | RMN | ERICCSON RADIO 4449 B71+B85A | ADD | | | | | | | |
| | | C3 | - | _ | _ | - | _ | _ | | | | _ | C3 | ERICCSON AIR6449 B41 (ACTIVE ANTENNA - MASSIVE | L2500, N2500 | 0°/0° | ADD | _ | _ | | | | | | | | |

| EXISTING FIBER DISTRIBUTION/O | VP BOX | EXISTING CABLING SUMMARY | | | | | |
|-------------------------------|--------|--------------------------|----------------------------|--------|--|--|--|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS | | | |
| _ | _ | (6) 1-5/8" | _ | RMV | | | |
| - | _ | _ | (1) 6X12 (1-5/8") FIBER | RMN | | | |

| \bigcirc | EQUIPMENT SCHEDULES |
|------------|---------------------|
| (3) | |

| FINAL FIBER DISTRIBUTION / OVE | BOX | FINAL CABLING SUMMARY | | | | | |
|--------------------------------|--------|-----------------------|----------------------------|--------|--|--|--|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS | | | |
| - | - | - | (1) 6X12 (1-5/8") FIBER | RMN | | | |
| - | - | - | (2) 6X12 (1-5/8") FIBER | ADD | | | |





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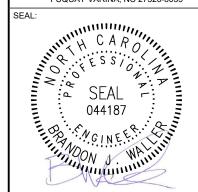
ATC SITE NUMBER: 21268

ATC SITE NAME:
CHALYBEATE SPRINGS NC

T-MOBILE SITE NAME:

CHALYBEATE SPRINGS

SITE ADDRESS: 512 CHALYBEATE ROAD FUQUAY VARINA, NC 27526-6035

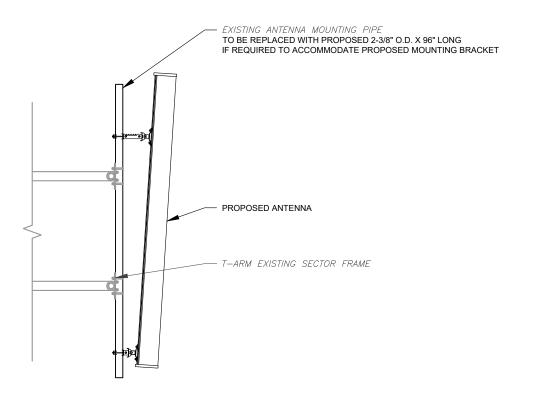


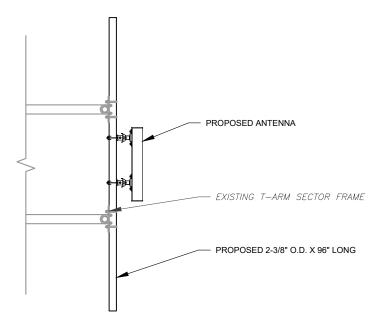
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| DATE DRAWN: | 10/21/21 |
|--------------|--------------------|
| ATC JOB NO: | 13731655_G3 |
| CUSTOMER ID: | CHALYBEATE SPRINGS |
| CUSTOMER #: | 5RA0165A |

ANTENNA INFORMATION & SCHEDULE

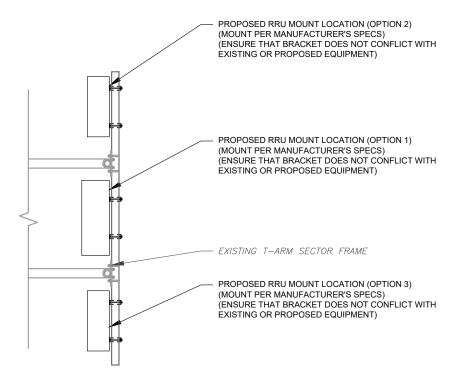
SHEET NUMBER:





1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.

PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S



PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.





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ATC SITE NUMBER: 21268

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CHALYBEATE SPRINGS NC

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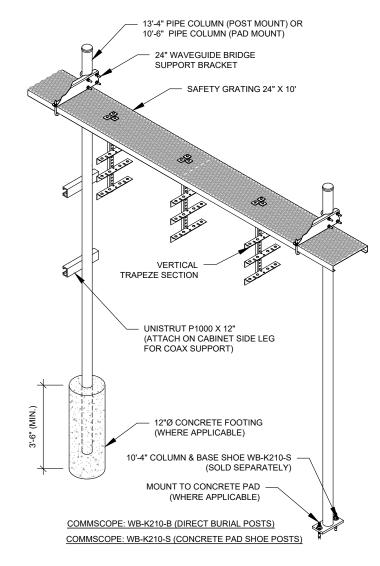
| | П | DATE DRAWN: | 10/21/21 |
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| | П | ATC JOB NO: | 13731655_G3 |
| | П | CUSTOMER ID: | CHALYBEATE SPRINGS |
| | П | CUSTOMER #: | 5RA0165A |

CONSTRUCTION DETAILS

SHEET NUMBER:

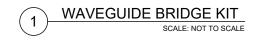
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CONSTRUCTION NOTE:

- INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.
- 2. INSTALL PER MANUFACTURES SPECIFICATION.







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ATC SITE NUMBER: 21268

ATC SITE NAME:
CHALYBEATE SPRINGS NC

T-MOBILE SITE NAME:

CHALYBEATE SPRINGS

SITE ADDRESS: 512 CHALYBEATE ROAD FUQUAY VARINA, NC 27526-6035

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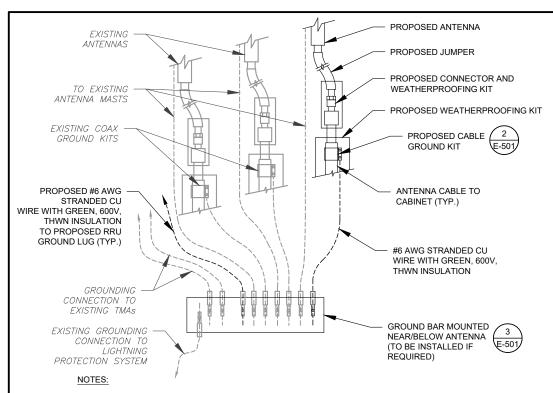
| | DATE DRAWN: | 10/21/21 |
|--|--------------|--------------------|
| | ATC JOB NO: | 13731655_G3 |
| | CUSTOMER ID: | CHALYBEATE SPRINGS |
| | CUSTOMER #: | 5RA0165A |
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CONSTRUCTION DETAILS

SHEET NUMBER:

C-502

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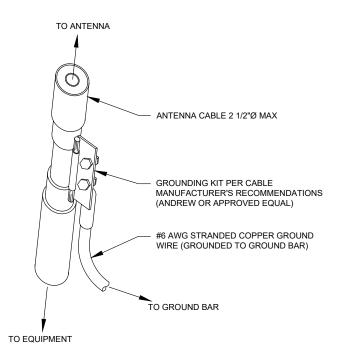
- 1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.



ELECTRICAL NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- ATC AND DELTA OAKS GROUP HAVE NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE AND LOAD CAPACITY FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW IN CHART.
- FOR SPECIFIC CABINET / ANCILLARY EQUIPMENT WIRING REQUIREMENTS. THE T-MOBILE CONTRACTOR SHOULD REFERENCE DESIGN DOCUMENTS PROVIDED BY T-MOBILE FOR THIS CURRENT PROJECT CONFIGURATION. IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS & NEC STANDARDS &

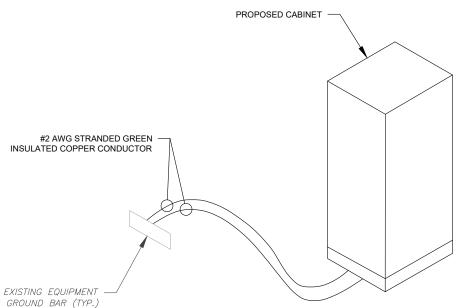
| OCPD SIZE | WIRE SIZE | GROUND SIZE | CONDUIT SIZE |
|-----------|-----------|-------------|--------------|
| 80A/2P | 3#3 AWG | #8 AWG | 1-1/4" |
| 100/2P | 3#2 AWG | #8 AWG | 1-1/4" |
| 125A/2P | 3#1 AWG | #6 AWG | 1-1/2" |
| 150A/2P | 3#1/0 AWG | #6 AWG | 1-1/2" |



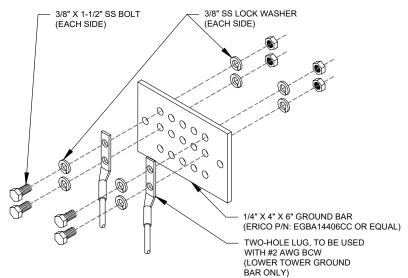
- GROUND KIT NOTES:

 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.





CABINET GROUNDING DETAIL



GROUND BAR NOTES:

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.







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ATC SITE NUMBER: 21268

ATC SITE NAME: CHALYBEATE SPRINGS NC

T-MOBILE SITE NAME:

CHALYBEATE SPRINGS

SITE ADDRESS: 512 CHALYBEATE ROAD FUQUAY VARINA. NC 27526-6035

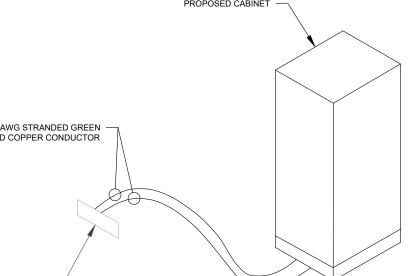
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| DATE DRAWN: | 10/21/21 |
|--------------|--------------------|
| ATC JOB NO: | 13731655_G3 |
| CUSTOMER ID: | CHALYBEATE SPRINGS |
| CUSTOMER #: | 5RA0165A |
| | |

GROUNDING DETAILS

SHEET NUMBER:

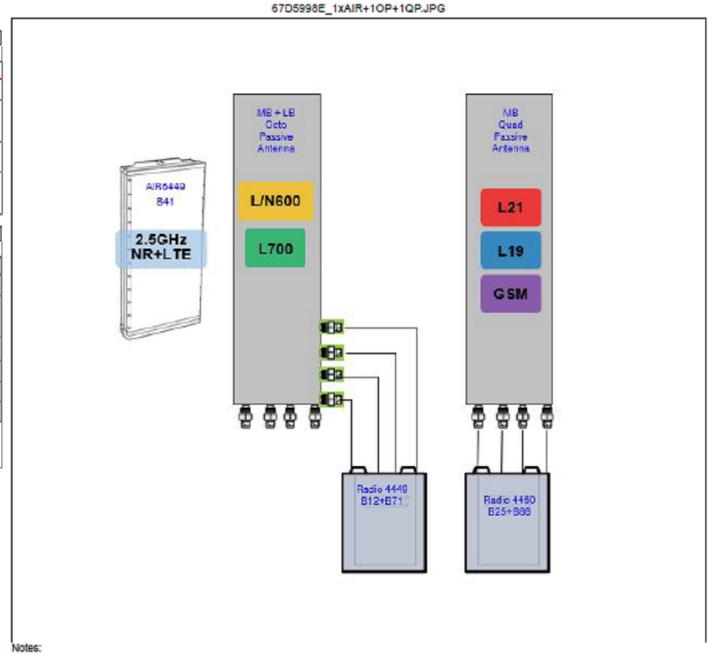
E-501



| | Existing RAN Equipment |
|------------------------|---------------------------------|
| | Template: 67D04G SIMO |
| Enclosure | 1 |
| Enclosure Type | (RBS 6201 ODE) |
| Baseband | DUG20 BB 5216 BB 6630 L500 N500 |
| Hybrid Cable System | Ericsson 6x12 HCS 4AWG 90m |
| Radio | RUS01 B2 (x 6) L1900 G1900 |
| | |
| | Proposed RAN Equipment |
| | Template: 67D5A998E ODE+6160 |

| | Proposed RAN Equipment | | | |
|--|---|---------------------------|------|--|
| | Template: 67D5A998E ODE+6160 | | | |
| Enclosure | 1 | 2 | 3 | |
| Enclosure Type | (RBS 6201 ODE) | (Enclosure 6160) | B160 | |
| Baseband | DUG20 BB 6630 BB 5216 L2100 L1900 L1900 L1900 | BB 6648 L2500 N2500 | | |
| Hybrid Cable System | Ericsson 6x12 HCS 4AWG 90m (x 3) | (PSU 4813 VR2A (Kit) | | |
| Multiplexer | (UMX) | | | |
| Radio | RUS01 B2 (x 6) | | | |
| Transport System | | (CSR IXRe V2 (Gen2)) | | |
| RAN Scope of Work | RAN Scope of Work: | | | |
| Install (1) BB6648, (1) PSU4813, (1) IXRe Router, (2) 6x12 4AWG 90m & (1) XMU. | | | | |

1 CABINET CONFIGURATION SCALE: NOT TO SCALE



2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

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

SUPPLEMENTAL

SHEET NUMBER:

R-601



Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of -48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.



| CAPACITY Rack space user equipment | 19U (19" rack) |
|---------------------------------------|--|
| Hardware capabilities | Power and CPRI support for multi-standard remote radios (RRU or AIR) |
| | ERS Baseband and Transport units |
| | Li-lon batteries |
| | 2DD oguinment |
| | 3PP equipment |
| | Additional power feed available as option |
| MECHANICAL SPECIFICATION | I . |
| Weight | 145 kg (excluding active equipment) 320 lbs (excluding active equipment) |
| Dimension (H x W x D) | 1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame) |
| Base frame height | 150 mm 6 in. |
| Mounting position | Ground |
| Enclosure material | Aluminum |
| Color | Power paint NCS 2002-B |
| Door | Front access |
| Rack type | 19" (IEC 60297-3-100) |
| Locking type | Pad lock or Cylinder |
| POWER SYSTEM | |
| Input voltage | 3P+N+PE: 346/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-250 VAC |
| Input power | <33kW |
| Output load (-48VDC) | 24kW |
| Total capacity (-48VDC) | 31.5kW |
| AC SPD | Class 2/Type 2 |
| DC SPD | Class 2/Type 2 |
| PSU Slots | 9x |
| Service outlet | Optional |
| Priority load | 8x Circuit Breaker |
| LLVD 1 | 6x Circuit Breaker |
| LLVD 2 | 6x Circuit Breaker |
| CB ratings | 3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A |
| Battery Interface | 2x Circuit Breaker |
| Battery Circuit Breaker rating | 125A 2pol (200A) |
| PSU capacity | 3500W |
| | |

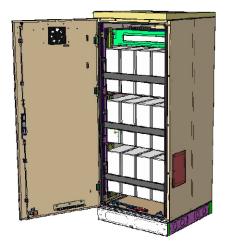
SUPPLEMENTAL

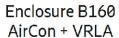
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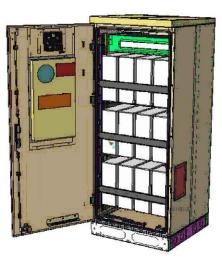
REVISION:

R-602

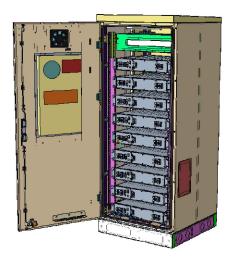
Enclosure B160







Enclosure B160 AirCon + Li-Ion



Enclosure B160 Convection Cooling + VRLA

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Enclosure B160

Capacity

— VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah

Li-Ion: 24U 19" / 23"Sodium-Nickel: 3x FIAMM

Electrical specification

DC Output: -48VDC/200ABattery breakers: 2x 125/2p

Alarms: Door open, Climate failure, MCB Connection

Mechanical specification

— Weight: 134kg

Dimensions:
 63 x 26 x 26 in. (incl. Base frame)

Base frame height: 6 in.

Material: Galvanized steel (180g/m²)
 Color: Powder paint NCS 2002-B

Door: Front accessLocking type: Pad lock / cylinder

Environmental specification

Ingress protection: VRLA/Sodium IP44
 Li-Ion IP55

— Relative humidity: 15-100%

Climate system

Air Conditioner

— Fan type: DC

Cooling capacity: 500W @L35/L35

Convection coolingEmergency fan

SUPPLEMENTAL

SHEET NUMBER:

R-603

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

REVISION:

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The NSB RED Battery® delivers long life for reliable and unreliable grid conditions.

- Pure lead electrochemistry greatly increases temp and State-of-the-art automated manufacturing ensures corrosion resistance, while reducing component aging
- Thin plates deliver large surface area, high power density and low resistance
- Design life 15+ years at 20°C (68°F)
- EUROBAT design life definition: Very Long Life (12+ years)
- Fast recharging
- Operating temperature range -40°C to +65°C (-40°F to

- consistency and reliability
- Shelf life of up to 24 months
- Advanced 3 stage terminal design to ensure leak-free operation - brass terminals provide maximum performance
- High modulus Polyphenylene Oxide (PPO) plastic materials designed to withstand extended elevated operating temperatures and maintain high battery compression essential for reliable operation
- Non-halogenated, thermally sealed plastic casing
- Flame retardant (UL 94 VO) and LOI of at least 28%
- Approved as non-hazardous cargo for ground, sea, and air transport - DOT 49CFR173.159(d), (i) and (ii)



NSB 190FT RED

Nominal Technical Specifications

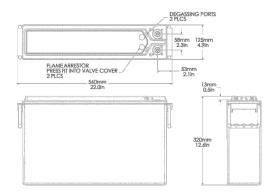
Dimensions

| Height | 12.6 in | Width | 4.9 in |
|--------|---------|--------|---------|
| Length | 22 in | Weight | 123 lbs |

Flectrical

| Female M8 x 1.25 8.0 Nm (71 in-lbs) 123 / 129 Ah | |
|--|--|
| | |
| 123 / 129 Ah | |
| | |
| 160 / 164 Ah | |
| 183 / 186 Ah | |
| 187 / 190 Ah | |
| 2.28 / 2.27 VPC | |
| 2.8 m Ω @ 25°C (77°F) | |
| 1900 S | |
| 5000 A | |
| -40°C to +65°C | |
| 12 V | |
| | |

Technical Drawing



SiteTel Sweden AB

SE-164 40 Kista, Stockholm, Sweden

europe@northstarbatte Tel:+46841010200

Fax: +46 8 638 06 00

All NorthStar batteries are compliant with: Telcordia SR4228, IEC 60896; Bellcore GR-63-Core, Issue 1; British, German, and Russian telecom standards; UL approved and UN2800 certified. NorthStar is registered to ISO 9001 and ISO 14001.

NorthStar Battery Company LLC 4000 Continental Way Sprinafield, MO. 65803. ited States of America Tel: +1 417 575 8200

orthStar Middle East, Africa NorthStarBattery DMCC Office 702, Saba 1 Tower lumeirah Lake Towers, Dubai nited Arab Emirates nea@northstarbattery.com [el: +971 4 423 8060

NS Asia Pacific Sdn Bhd B2-3A-13A, Solaris Dutamas No. 1, Jalan Dutamas 1, 50480 asia@northstarsitetel.com Tel: +60 3 6419 0711

Release date: 2017-10-06

Release date: 2017-10-06

SUPPLEMENTAL

R-604

REVISION:

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