



CHATHAM COUNTY, NC  
 EMERGENCY OPERATIONS  
 80-A EAST STREET  
 PITTSBORO, NC 27312  
 (919) 542-8204

# CHATHAM COUNTY NORTHEAST DISTRICT PARK

5410 BIG WOODS RD.  
 CHAPEL HILL, NC 27517  
 LAT: 35° 48' 43.77"N  
 LONG: 79° 02' 03.38"W

PROPOSED 380'-0" TALL SELF-SUPPORTED  
 TOWER AND EQUIPMENT COMPOUND

**SITE CONTACT:**

MOTOROLA SOLUTIONS, INC.  
 8720 RED OAK BLVD., SUITE 123  
 CHARLOTTE, NC 28217  
 CONTACT: HEATHER MASON  
 PHONE: (513) 470-6238

**UTILITY CONTACTS:**

ELECTRIC:  
 DUKE ENERGY PROGRESS  
 P.O. BOX 1771  
 RALEIGH, NC 27602  
 PHONE: (866) 582-6345

CALL BEFORE YOU DIG: NC ONE-CALL: 811

LAW REQUIRES THAT THE CONTRACTOR NOTIFY  
 THE APPROVED NOTIFICATION CENTER WITHIN  
 THREE (3) TO TWELVE (12) WORKING DAYS  
 PRIOR TO EXCAVATION OR DEMOLITION ACTIVITIES.

**PROPERTY OWNER:**

COUNTY OF CHATHAM, NC  
 P.O. BOX 608  
 PITTSBORO, NC 27312

**PARCEL INFORMATION:**

JURISDICTION: CHATHAM COUNTY  
 PARCEL NUMBER: 0019573  
 PARCEL PIN NUMBER: 979500006315  
 PARCEL REFERENCE: DB1362, PG0799  
 PARCEL ACREAGE: 66.548 ±  
 PARCEL ZONING: R-5  
 FLOOD MAP: 3710978400K, 11/17/2017, ZONE "X"

**ENGINEER:**

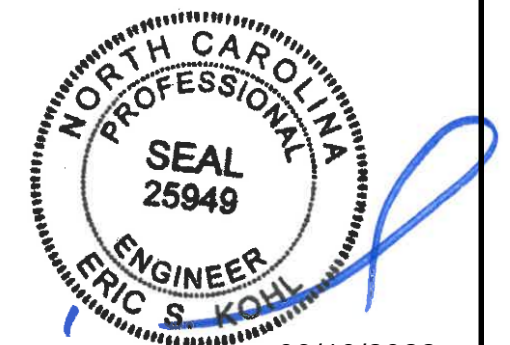
KCI ASSOCIATES OF NC, P.A.  
 4505 FALLS OF NEUSE RD., SUITE 400  
 RALEIGH, NC 27609  
 (919) 783-9214  
 ERIC S. KOHL, NC LICENSE #25949

**NOTES:**

CONTRACTOR SHALL NOTIFY OWNER FOR ACCESS TO SITE.  
 KEEP GATES AND/OR DOORS LOCKED AT ALL TIMES.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING  
 DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL  
 IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY  
 DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR  
 BE RESPONSIBLE FOR SAME.

- T-1 COVER SHEET
- T-2 GENERAL REQUIREMENTS
- C-1 SITE OVERVIEW
- C-2 SITE PLAN
- C-3 COMPOUND PLAN
- C-4 TOWER ELEVATION
- C-5 EROSION AND SEDIMENT CONTROL PLAN
- D-1 CONSTRUCTION DETAILS
- D-2 CONSTRUCTION DETAILS
- D-4 CONSTRUCTION DETAILS
- D-5 CONSTRUCTION DETAILS
- E-1 ELECTRICAL PLAN AND NOTES



03/10/2022

NO.	DATE	REVISION
--	11/03/2021	SITE SKETCH
--	11/11/2021	SITE SKETCH
A	01/06/2022	ZONING DRAWINGS
B	01/11/2022	ZONING DRAWINGS
C	03/07/2022	CONSTRUCTION DRAWINGS

**KCI**  
 ASSOCIATES OF NC  
 4505 FALLS OF NEUSE RD.,  
 SUITE 400  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 783-9214  
 ENGINEERS • PLANNERS • ECOLOGISTS

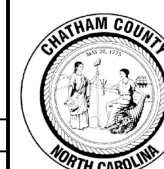
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CHATHAM COUNTY  
 NORTHEAST DISTRICT PARK  
 5410 BIG WOODS RD.  
 CHAPEL HILL, NC 27517  
 CHATHAM COUNTY, NC

DATE OF ORIGATION : 03/07/2022

DRAWN BY : TNW      APPROVED BY :

CHECKED BY :      KCI# : 011904897\_H



CHATHAM COUNTY, NC  
 EMERGENCY OPERATIONS  
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 PITTSBORO, NC 27312  
 (919) 542-8204

COVER SHEET

T-1

SEAL:

**GENERAL REQUIREMENTS:**

1. GENERAL
  - 1.1 SUMMARY OF WORK
    - A. THE WORK SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE INSTALLATION OF PROPOSED EMERGENCY COMMUNICATIONS TOWER WITHIN A PROPOSED EQUIPMENT COMPOUND, ANTENNAS AND LINES, GROUNDING AND ELECTRICAL WORK, ETC., ASSOCIATED WITH THE ENCLOSURE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. CONTRACTOR SHALL SUPPLY ALL PERMANENT MATERIALS OR EQUIPMENT REQUIRED AND ALL LABOR, EQUIPMENT, TOOLS, UTILITIES, MINOR HARDWARE MATERIALS, TRANSPORTATION AND FACILITIES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF SERVICES AND INSTALL WORK, WHETHER TEMPORARY OR PERMANENT. CONTRACTOR SHALL BE OBLIGATED TO PERFORM ALL THE WORK OUTLINED IN THESE DRAWINGS IN ACCORDANCE WITH THE CONTRACT AGREEMENT, FEDERAL REGULATIONS, STATE REQUIREMENTS, LOCAL CODES, COMMERCIAL/INDUSTRY STANDARDS, DETAILED THE ABOVE LISTED DOCUMENTS REGARDING STANDARDS OF WORK, THE MORE STRINGENT CRITERIA SHALL APPLY. ANY ADDITIONAL COSTS OR DELAYS RESULTING FROM CORRECTION OF THE WORK TO COMPLY WITH THE ABOVE REQUIREMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
    - B. THE TOTAL DISTURBED AREA IS 12,000.00sqf.
  - 1.2 SITE VISIT
 

CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE ITSELF WITH THE SCOPE OF WORK REQUIRED PER THE DRAWINGS AND ALL LOCAL CONDITIONS AND LAWS AND REGULATIONS THAT MAY IN ANY MANNER AFFECT THE PRICE, PROGRESS AND PERFORMANCE OF WORK, INCLUDING ANY COSTS ASSOCIATED WITH IT. THE CONTRACTOR ALSO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND NOTIFY THE MOTOROLA REPRESENTATIVE OF ANY DISCREPANCIES OR INTERFERENCES WHICH AFFECT THE WORK OF THIS CONTRACT.
  - 1.3. STANDARDS AND CODES
 

THE FOLLOWING DOCUMENTS (LATEST REVISION) SHALL BE CONSIDERED TO BE SPECIFICATION AND ARE INCORPORATED HEREIN BY REFERENCE. IN THE EVENT OF CONFLICT BETWEEN THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE REFERENCED DOCUMENTS, THE STRICTER SPECIFICATION SHALL GOVERN. WHERE PROVISIONS OF THE CODES AND STANDARDS ARE IN CONFLICT WITH THE BUILDING CODE IN FORCE FOR THIS PROJECT, THE BUILDING CODE SHALL GOVERN.

    - A. AMERICAN CONCRETE INSTITUTE:
      - \* ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
      - \* ACI 305 "HOT WEATHER CONCRETING"
      - \* ACI 306 "COLD WEATHER CONCRETING"
      - \* ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
      - \* ACI 614 "RECOMMENDED PRACTICE FOR MEASURING, MIXING AND PLACING CONCRETE"
      - \* ACI 311 "RECOMMENDED PRACTICE FOR CONCRETE INSPECTION"
      - \* ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
      - \* ACI 613 "RECOMMENDED PRACTICE FOR SELECTING PROPORTIONS FOR CONCRETE"
    - B. AMERICAN NATIONAL STANDARDS INSTITUTE:
      - \* ANSI Z359 REQUIREMENTS FOR PERSONAL FALL ARREST SYSTEMS, SUBSYSTEMS, AND COMPONENTS
      - \* ANSI Z87.1 OCCUPATIONAL AND EDUCATIONAL EYE AND FACE PROTECTION
      - \* ANSI Z89.1 PROTECTIVE HEADWEAR FOR INDUSTRIAL WORKERS - REQUIREMENTS
      - \* ANSI/IEEE C95.1 SAFETY LEVELS WITH RESPECT TO HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY
      - \* ANSI/TIA/EIA STANDARD 222: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
    - C. AMERICAN INSTITUTE OF STEEL CONSTRUCTION:
      - \* AISC MANUAL OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION: LATEST EDITION
    - D. AMERICAN SOCIETY FOR TESTING AND MATERIALS:
      - \* ASTM A615 - "SPECIFICATION FOR DEFORMED AND PLAIN BILLET STEEL BARS FOR CONCRETE REINFORCEMENT"
      - \* ASTM C94-80 - "SPECIFICATION FOR READY-MIX CONCRETE"
      - \* ASTM C39-77 - "SPECIFICATION FOR TEST FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMEN"
      - \* ASTM C33 - "SPECIFICATION FOR CONCRETE AGGREGATES"
      - \* ASTM C150 - "SPECIFICATION FOR PORTLAND CEMENT"
      - \* ASTM C172 - "SAMPLING FRESH CONCRETE"
      - \* ASTM C143 - "SLUMP OF PORTLAND CEMENT CONCRETE"
      - \* ASTM D698-91 - "TEST METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT"
      - \* ASTM D1556-64 - "DENSITY OF SOIL IN PLACE BY THE SAND-CONE METHOD"
      - \* ASTM D1557 - "TEST FOR MOISTURE-UNIT WEIGHT RELATIONS OF SOILS AND SOIL-AGGREGATE MIXTURES USING 10-LB. HAMMER AND 18-IN. DROP" PROCEDURE C.
      - \* ASTM D2487 - "STANDARD CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOIL CLASSIFICATION SYSTEM)"
      - \* ASTM D2922 - "DENSITY OF SOIL AND SOIL AGGREGATE IN PLACE BY NUCLEAR METHODS SHALLOW DEPTH"
      - \* ASTM D2940 - "STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR BASES OR SUB-BASES FOR HIGHWAYS OR AIRPORTS"
    - E. AMERICAN WELDING SOCIETY:
      - \* AWS D12.1 - "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL, METAL INSERTS AND CONNECTIONS IN REINFORCED CONCRETE CONSTRUCTION"
    - F. CONCRETE REINFORCING STEEL INSTITUTE:
      - \* "MANUAL OF STANDARD PRACTICE"
    - G. FEDERAL AVIATION ADMINISTRATION:
      - \* DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR, AC 70/7460-1K: OBSTRUCTION MARKING & LIGHTING.
      - \* DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR, 150-5345-43, FAA/ DOD SPECIFICATION L-864: FLASHING RED OBSTRUCTION LIGHTING.
    - H. FEDERAL COMMUNICATIONS COMMISSION:
      - \* FEDERAL COMMUNICATIONS COMMISSION - RULES AND REGULATIONS PART 17: CONSTRUCTION, MARKING AND LIGHTING OF ANTENNA STRUCTURES.

STRUCTURAL STEEL PAINTING COUNCIL:  
 \* SPCC-SP-1-63: SPECIFICATION FOR PAINTING STEEL STRUCTURES.
  - I. MOTOROLA R56 STANDARDS AND GUIDELINES FOR COMMUNICATIONS SITES (LATEST REVISION).
  - K. MOTOROLA'S CIVIL WORKS BID SPECIFICATIONS
  - L. NATIONAL FIRE PROTECTION ASSOCIATION:
    - \* NFPA 1 - FIRE PREVENTION CODE
    - \* NFPA 70 - NATIONAL ELECTRICAL CODE
    - \* NFPA 101 - LIFE SAFETY CODE
    - \* NFPA 111 - STANDARD ON STORED ELECTRICAL ENERGY, EMERGENCY AND STANDBY POWER SYSTEMS
    - \* NFPA 780 - STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS
  - M. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:
    - \* OSHA 1926
    - \* OSHA DIRECTIVES CPL 2-1.29 - INTERIM INSPECTION PROCEDURES DURING COMMUNICATION TOWER CONSTRUCTION ACTIVITIES.
  - N. STANDARD BUILDING CODE:
    - \* SCC SECTION 1607 EARTHQUAKE LOADS. ASCE-7 MAP MAY BE USED IN DETERMINING COEFFICIENT VALUES FOR A, AND AV.
  - O. NORTH CAROLINA UNIFORM STATEWIDE BUILDING CODE (LATEST EDITION).

- 1.4. NOTICE TO PROCEED
 

WHEN THE SITE IS READY FOR INSTALLATION, MOTOROLA SHALL ISSUE A NOTICE TO PROCEED TO THE CONTRACTOR. UPON RECEIPT OF THE NOTICE TO PROCEED, THE CONTRACTOR SHALL SUBMIT TO MOTOROLA A SCHEDULE REFLECTING THE WORK PLAN. THE CONTRACTOR SHALL ADVISE THE MOTOROLA REPRESENTATIVE IMMEDIATELY OF ANY SCHEDULE CHANGES. THE CONTRACTOR SHALL ADJUST HIS WORK, AS REQUIRED, TO COORDINATE WITH THE MOTOROLA INSTALLATION TEAM IF THE SCHEDULES OVERLAP.
- 1.5. MOTOROLA REPRESENTATIVE:
 

MOTOROLA SHALL DESIGNATE A REPRESENTATIVE. THIS PERSON IS THE ONLY CONTACT POINT AUTHORIZED TO MAKE ANY CHANGES TO THE CONTRACT PROVISIONS OR THE PLANS AND SPECIFICATIONS. ANY CHANGES MADE BY THE CONTRACTOR ARE AT THE CONTRACTOR'S RESPONSIBILITY AND RISK.
- 1.6. CONTRACTORS FIELD REPRESENTATIVE
 

CONTRACTOR SHALL ASSIGN A FIELD REPRESENTATIVE WHO IS FAMILIAR WITH THESE SPECIFICATIONS AND WILL REPRESENT THE CONTRACTOR AND HAVE THE AUTHORITY TO ACT FOR THE CONTRACTOR AND SUPERVISE ALL CONSTRUCTION ACTIVITIES. THE FIELD REPRESENTATIVE SHALL BE AVAILABLE WHEN CONSTRUCTION ACTIVITIES BEGIN. THE FIELD REPRESENTATIVE SHALL BE THE PRIMARY POINT OF CONTACT FOR MOTOROLA DURING THE CONSTRUCTION PHASE OF THE WORK.
- 1.7. PROJECT MEETINGS
 

THE CONTRACTOR SHALL CONDUCT THE INITIAL (PRE-CONSTRUCTION) MEETING (INCLUDING ALL SUB-CONTRACTORS) WITH THE MOTOROLA REPRESENTATIVE WITHIN TWO WEEKS AFTER AWARD OF THE CONTRACT. SUBSEQUENTLY, THE CONTRACTOR SHALL PROVIDE PROGRESS SCHEDULE UPDATES TO MOTOROLA ON A WEEKLY BASIS.
- 1.8. MATERIALS
 

CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AS REQUIRED FOR COMPLETE SYSTEMS INCLUDING: ALL PARTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER SPECIFICALLY INDICATED OR NOT. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO MOTOROLA'S ACCEPTANCE.

MATERIALS AND WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KINDS (AS DEFINED BY INDUSTRY STANDARDS), FREE OF DEFECTS AND ALL MATERIALS SHALL BE NEW AND UNUSED IN ALL CASES, UNLESS OTHERWISE SPECIFIED. WHERE THE NAME OF A CONCERN OR MANUFACTURER IS MENTIONED ON DRAWINGS OR IN SPECIFICATIONS IN REFERENCE TO A REQUIRED SERVICE OR PRODUCT, AND NO QUALIFICATIONS OR SPECIFICATION OF SUCH IS INCLUDED, THEN THE MATERIAL SPECIFICATIONS, DETAILS OF MANUFACTURE, FINISH, ETC., SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD PRACTICE, DIRECTION OR SPECIFICATIONS. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 1.9. VERIFICATION OF EXISTING CONDITIONS
 

BEFORE STARTING ANY OPERATION, THE CONTRACTOR SHALL EXAMINE EXISTING WORK PERFORMED BY OTHERS, TO WHICH ITS WORK IS TO ADJOIN OR BE APPLIED, AND SHALL REPORT TO MOTOROLA PROJECT MANAGER ANY CONDITIONS THAT WILL PREVENT SATISFACTORY ACCOMPLISHMENT OF HIS WORK. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF ALL SURVEY DATA AS INDICATED IN THE PLANS AND SPECIFICATIONS AND / OR AS PROVIDED BY MOTOROLA. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS, OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE MOTOROLA REPRESENTATIVE IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED. FAILURE TO NOTIFY THE MOTOROLA REPRESENTATIVE OF DEFICIENCIES, ERRORS OR FAULTS PRIOR TO COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE THEREOF AND WAIVER OF ANY CLAIMS OF UNSUITABILITY, ERRORS, OMISSIONS OR INACCURACIES.

THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PRESERVING ALL ESTABLISHED SURVEY CONTROL POINTS. IF THE CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS MOVE OR DESTROY ANY SURVEY CONTROL POINTS, THE COST INCURRED BY THE LAND OWNER OR MOTOROLA TO RE-ESTABLISH THEM WILL BE BORNE BY THE CONTRACTOR.
- 1.10. PERMITS
 

THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE CONTRACTOR SHALL MEET ALL OF THE REGULATORY REQUIREMENTS OF THE JURISDICTION GOVERNING CONSTRUCTION.
- 1.11. SITE INSPECTION BY MOTOROLA
 

THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR ARRANGING WITH MOTOROLA FOR AN INSPECTION PRIOR TO COVERING UP ALL WORK THAT WILL BE COVERED IN FINISHED CONDITION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MANAGE THE SEQUENCE OF WORK AND REQUEST THE INSPECTIONS IN A TIMELY MANNER. THE CONTRACTOR SHALL NOT REQUEST AN INSPECTION UNLESS ALL OF THE RELATED WORK HAS BEEN COMPLETED. WORK SHALL NOT PROCEED TO THE NEXT STEP UNTIL THE PREVIOUS STEP HAS BEEN INSPECTED AND APPROVED BY THE LOCAL INSPECTORS AND THE MOTOROLA REPRESENTATIVE. THE PRESENCE OF THE OWNER OR MOTOROLA REPRESENTATIVE ON THE JOB SITE IN NO WAY RELIEVES THE CONTRACTOR OF THE ASSOCIATED RESPONSIBILITIES OF THE JOB. ANY WORK WHICH DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS WILL BE CORRECTED OR REMOVED SOLELY AT THE CONTRACTOR'S EXPENSE.

THE FOLLOWING INFORMATION IS INCLUDED AS A GUIDE TO THE CONTRACTOR TO ASSIST IN DETERMINING THE TYPE AND FREQUENCY OF INSPECTIONS. THE LISTED INSPECTIONS REPRESENT THOSE REQUIRED FOR SMALL OR SIMPLE PROJECTS. LARGE OR COMPLEX PROJECTS MAY REQUIRE ADDITIONAL INSPECTIONS DEPENDING ON THE SEQUENCE OF WORK.

  - \* FOUNDATIONS EXCAVATION AND REBAR: TO BE MADE AFTER TRENCHES ARE EXCAVATED AND FORMS ERECTED, REINFORCEMENT PLACED, COMPACTION TESTED, SOIL TREATED, VAPOR BARRIER PLACED, AND ESSENTIALLY READY FOR CONCRETE PLACEMENT.
  - \* GROUNDING: TO BE MADE AFTER THE BELOW GROUND CADWELD CONNECTIONS HAVE BEEN COMPLETED, PRIOR TO COVERING UP TRENCHES.
  - \* ELECTRICAL WORK WITHIN WALLS: TO BE MADE AFTER THE ROOF, FRAMING, FIREBLOCKING AND BRACING IS IN PLACE PRIOR TO INSTALLATION OF INSULATION OR WALL/CEILING MEMBRANES.

AS A GENERAL RULE, THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE TO MOTOROLA FOR INSPECTION OF ALL WORK PRIOR TO CONCEALMENT. THE CONTRACTOR HAS RESPONSIBILITIES RELATIVE TO ALL TYPES OF INSPECTIONS AND IS RESPONSIBLE FOR CONTACTING ALL OF THE INSPECTING ENTITIES TO DETERMINE HIS RESPONSIBILITIES. ALL OF THESE INSPECTING ENTITIES HAVE UNIQUE AND SEPARATE RESPONSIBILITIES. ONE INSPECTION FROM AN ENTITY WILL NOT SUBSTITUTE FOR AN INSPECTION FROM ANOTHER ENTITY.
- 1.12. SAFETY
 

THE CONTRACTOR, HIS EMPLOYEES, ANY SUB-CONTRACTORS, VENDORS, THEIR RESPECTIVE EMPLOYEES AND CONTRACTOR'S VISITORS SHALL COMPLY WITH ALL SAFETY STANDARDS, ACCIDENT PREVENTION REGULATIONS AND ENVIRONMENTAL REGULATIONS PROMULGATED BY FEDERAL, STATE OR LOCAL AUTHORITIES HAVING JURISDICTION AND SHALL AT ALL TIMES CONDUCT ALL OPERATIONS UNDER THE CONTRACT IN A MANNER TO AVOID THE RISK OF ANY SAFETY PROGRAMS AND/OR RULES PROMULGATED BY OWNER AND/OR MOTOROLA.

- 1.13. ELECTROMAGNETIC EMISSIONS
 

THE CONTRACTOR SHALL ACKNOWLEDGE ALL OR PORTIONS OF THE WORK MAY INVOLVE POSSIBLE EXPOSURE OF CONTRACTOR, SUB-CONTRACTORS, AND THEIR RESPECTIVE EMPLOYEES, AGENTS, INVEITEES, LICENSEES AND OTHER VISITORS TO THE JOBSITE AND/OR MOTOROLA PREMISES TO ELECTRO-MAGNETIC ENERGY ("EME") WHILE PERFORMING WORK UNDER THIS CONTRACT, ESPECIALLY IF WORK IS PERFORMED ON EXISTING ANTENNA TOWERS OR BUILDING TOPS WHERE ANTENNAS ARE LOCATED. THE CONTRACTOR REPRESENTS THAT CONTRACTOR, SUBCONTRACTORS, AND ALL OF THEIR RESPECTIVE EMPLOYEES, AGENTS, INVEITEES, LICENSEES, AND OTHER AUTHORIZED REPRESENTATIVES WHO ARE PERFORMING SERVICES UNDER THIS AGREEMENT WILL COMPLY WITH ALL ANSI AND ANY OTHER APPLICABLE EME STANDARDS, RULES OR REGULATIONS, INCLUDING, BUT NOT LIMITED TO THOSE RULES OR REGULATIONS IMPOSED OR SUGGESTED BY MOTOROLA, IF ANY.

THE CONTRACTOR SHALL ADHERE TO ALL OSHA RULES, REGULATIONS AND ADOPTED POLICIES. ALL CONTRACTOR PERSONNEL SHALL HAVE UNDERGONE ELECTROMAGNETIC ENERGY (EME) TRAINING FOR PERSONNEL WORKING IN THE VICINITY OF ACTIVE ANTENNAS. AS SUCH IT IS RECOMMENDED THAT RF MONITORS BE USED BY THE TOWER PERSONNEL TO MONITOR EXPOSURE LEVELS. IF EME LEVELS AT THE SITE EXCEED THE MAXIMUM PERMISSIBLE EXPOSURE LIMITS, THE CONTRACTOR SHALL COORDINATE WITH THE INDIVIDUALS RESPONSIBLE FOR USE OF THE TRANSMITTER TO MAKE SURE THAT THE EQUIPMENT IS DEACTIVATED BEFORE WORK CAN BE RESUMED, WITHOUT CAUSING A SERIOUS DISRUPTION OF THE SERVICE.
- 1.14. SITE CLEANUP
 

THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, VEGETATION, AND RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. WHENEVER THE WORK-SITE IS LEFT UNATTENDED, THE CONTRACTOR SHALL BLOCK THE OPENING WITH WARNING TAPE TO DISCOURAGE TRESPASSING. THE PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE AT THE CONCLUSION OF SITE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LANDSCAPE GRADING AND SEEDING OF THE DISTURBED SOIL. THE CONTRACTOR SHALL USE LOCAL GRASS SEED TO STABILIZE SOIL AND SHALL COVER DISTURBED AREAS WITH HAY MULCH TO REDUCE RUNOFF OF SEDIMENT TO DOWNSTREAM AREAS. THE CONTRACTOR SHALL RESTORE THE SITE TO ITS ORIGINAL CONDITION. ALL SLOPES AND DISTURBED AREAS NOT RECEIVING AGGREGATE SURFACING ARE TO BE PREPARED AND BROADCAST SEEDING AND FERTILIZED FOR EROSION PROTECTION. SEEDING FOR AREAS DISTURBED SHALL BE ESTABLISHED SEASONALLY AS REQUIRED BY LOCAL CODES.

THE CONTRACTOR SHALL EXERCISE ALL CARE TO AVOID DAMAGE OR INTERRUPTION OF EXISTING UNDERGROUND OR OVERHEAD ELECTRIC SERVICES, UNDERGROUND GROUNDING AND FUEL LINES, EQUIPMENT AND BUILDINGS ON THE SITE, PLUS OFF SITE SERVICES, BURIED OR OVERHEAD, SURROUNDING THE EXISTING OR EXPANDED COMPOUND. ANY PROPERTY DAMAGE CAUSED BY THE CONTRACTOR OR HIS OPERATIONS SHALL BE CORRECTED AND/OR RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER(S) AND MOTOROLA AT NO ADDITIONAL COST TO THE PROPERTY OWNER OR MOTOROLA.
- 1.15. FACILITY STARTUP & COMMISSIONING
 

THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL DEMONSTRATE TO MOTOROLA THAT ALL SYSTEMS AND SUB-SYSTEMS INSTALLED UNDER THIS CONTRACT, OPERATE PROPERLY PRIOR TO THE FINAL ACCEPTANCE INSPECTION. PROVIDE THE OPERATIONS AND MAINTENANCE MANUALS AT THIS TIME.
- 1.16. AS-BUILT DRAWINGS
 

THE CONTRACTOR SHALL KEEP UP-TO-DATE MARKED UP PRINTS OF THE PROJECT DRAWINGS. UPON COMPLETION OF WORK AT THE SITE, THE CONTRACTOR SHALL REVIEW THE COMPLETE AS-BUILT DRAWINGS, AND ASCERTAIN THAT ALL DATA FURNISHED ON THE DRAWINGS IS ACCURATE AND TRULY REPRESENTS THE WORK AS ACTUALLY INSTALLED. MARKING INDICATING CHANGES TO THE DRAWINGS SHALL BE RED OR GREEN AND CLEARLY VISIBLE. TWO (2) SETS OF AS-BUILT DRAWINGS SHALL BE FURNISHED TO THE MOTOROLA REPRESENTATIVE AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL ALSO SHOW THE FOLLOWING:

  - \* MODIFICATIONS TO SITE LAYOUT
  - \* GROUNDING SYSTEM LAYOUT
  - \* UNDERGROUND FUEL LINE RUN
  - \* UNDERGROUND TELCO CABLE RUN
  - \* UNDERGROUND ELECTRICAL RUN

WHERE THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE SITE EQUIPMENT (SHELTER, ISOLATION TRANSFORMER, GENERATOR, ETC.) THAT REQUIRES PERIODIC MAINTENANCE, THE CONTRACTOR SHALL INCLUDE ALL OPERATION AND MAINTENANCE MANUALS AND ALL AS-BUILT DRAWINGS WHICH FULLY DESCRIBE THE ACTUAL INSTALLED EQUIPMENT.
- 1.17. TEST PROCEDURES AND RESULTS
 

THE CONTRACTOR IS REQUIRED TO SUBMIT THE RESULTS OF ALL TESTS REQUIRED BY THE PROJECT SPECIFICATIONS AND DRAWINGS THAT FALL WITHIN THE SCOPE OF WORK TO THE MOTOROLA REPRESENTATIVE WITHIN FIVE (5) DAYS OF THE TEST. THE CONTRACTOR IS REQUIRED TO SUBMIT TEST PROCEDURES NINETY (90) DAYS PRIOR TO THE TESTS BEING CONDUCTED. IN GENERAL, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TEST RESULTS:


  - \* CONCRETE COMPRESSION TEST FOR ALL CONCRETE WORK.
  - \* TIME DOMAIN REFLECTOMETER (TDR)/SWEEP TEST FOR ANTENNA AND TRANSMISSION LINE INSTALLATION WORK.
  - \* FUEL LINE LEAKAGE TEST FOR FUEL TANK AND PIPING INSTALLATION WORK.
  - \* SLUMP TEST FOR CONCRETE WORK.
  - \* GROUNDING RESISTANCE TEST FOR GROUNDING WORK.
  - \* ANY OTHER TEST THAT MAY BE REQUIRED.
- 1.18. CONTRACT CLOSEOUT
 

THE MOTOROLA REPRESENTATIVE WILL PROVIDE A CERTIFICATE OF COMPLETION AND APPROVE FINAL PAYMENT WHEN ALL PUNCH-LIST ITEMS HAVE BEEN CORRECTED AND ALL SYSTEMS ARE ACCEPTABLE. AFTER FINAL PAYMENT, CONTRACTOR WILL SIGN A RELEASE OF LIEN.
- 1.19. WARRANTY
 

ALL WORK PERFORMED BY THE CONTRACTOR IN COMPLETING THE SCOPE IDENTIFIED ON THE DRAWINGS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL COMPLETION OF THE PROJECT. THIS GUARANTEE SHALL COVER ALL MATERIALS, EQUIPMENT OR WORKMANSHIP WHICH IN THE OPINION OF MOTOROLA IS RENDERED DEFECTIVE OR INFERIOR OR NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT DURING THE GUARANTEE PERIOD. IF, WITHIN THE GUARANTEE PERIOD, REPAIRS OR CHANGES ARE REQUIRED TO CORRECT THE GUARANTEED WORK THEN UPON RECEIPT OF NOTICE, THE CONTRACTOR SHALL PROMPTLY AND WITHOUT EXPENSE TO MOTOROLA OR THE CITY OF SUFFOLK, PROCEED TO:


  - \* PLACE IN SATISFACTORY CONDITION ALL OF SUCH GUARANTEED WORK AND CORRECT ALL DEFECTS THEREIN;
  - \* MAKE GOOD ALL DAMAGES TO THE STRUCTURE OR SITE OR EQUIPMENT OR CONTENTS THEREOF, WHICH, IN THE OPINION OF MOTOROLA, IS THE RESULT OF THE USE OF MATERIALS, EQUIPMENT, OR WORKMANSHIP WHICH ARE INFERIOR, DEFECTIVE, OR NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT;
  - \* MAKE GOOD ANY WORK, MATERIALS OR EQUIPMENT, AND ADJACENT STRUCTURES DISTURBED IN FULFILLING THE GUARANTEE.

NO.	DATE	REVISION
--	11/03/2021	SITE SKETCH
--	11/11/2021	SITE SKETCH
A	01/06/2022	ZONING DRAWINGS
B	01/11/2022	ZONING DRAWINGS
C	03/07/2022	CONSTRUCTION DRAWINGS



**KCI**  
ASSOCIATES OF NC

4505 FALLS OF NEUSE RD.,  
SUITE 400  
RALEIGH, NORTH CAROLINA 27609  
(919) 783-9214  
ENGINEERS • PLANNERS • ECOLOGISTS



**MOTOROLA SOLUTIONS**

MOTOROLA SOLUTIONS, INC.  
8720 RED OAK BLVD., SUITE 123  
CHARLOTTE, NC 28217

CONTACT: HEATHER MASON  
PHONE: (513) 470-6238

CHATHAM COUNTY  
NORTHEAST DISTRICT PARK

5410 BIG WOODS RD.  
CHAPEL HILL, NC 27517  
CHATHAM COUNTY, NC

DATE OF ORIGATION : 03/07/2022

DRAWN BY : TNW      APPROVED BY :


CHECKED BY :      KCI# : 011904897\_H



CHATHAM COUNTY, NC  
EMERGENCY OPERATIONS  
80-A EAST STREET  
PITTSBORO, NC 27312  
(919) 542-8204

03/10/2022

SEAL:



**GENERAL REQUIREMENTS**

**T-2**

**CENTERLINE  
TOWER DATA**

LAT 35° 48' 43.77" (NAD '83)  
LON 79° 02' 03.38" (NAD '83)  
AVERAGE GROUND ELEVATION  
AT CENTERLINE OF TOWER  
ELEV. = @ 282.10" (NAVD '88)

PROPOSED 380'-0" TALL  
SELF-SUPPORTED TOWER

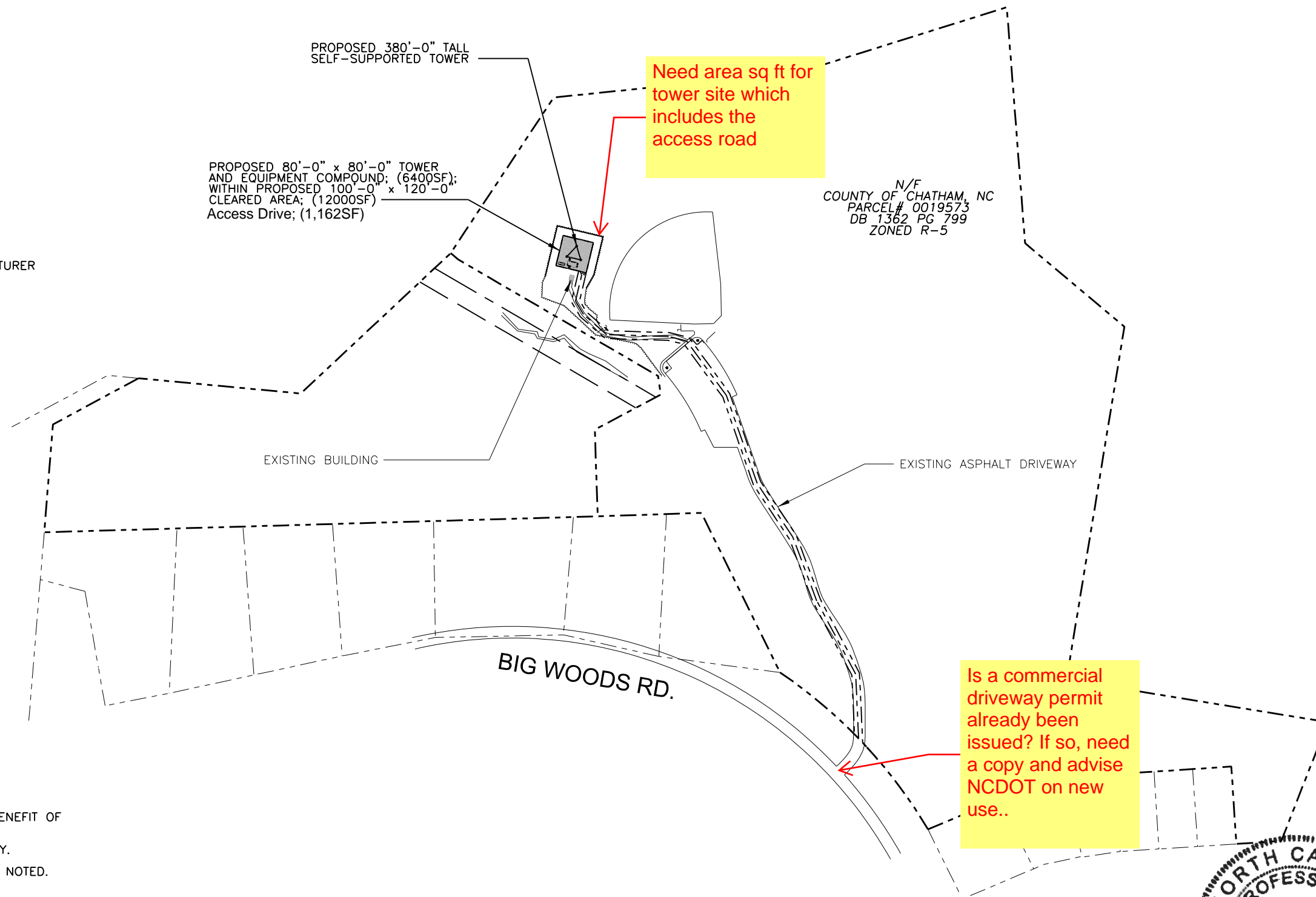
Need area sq ft for  
tower site which  
includes the  
access road

PROPOSED 80'-0" x 80'-0" TOWER  
AND EQUIPMENT COMPOUND; (6400SF);  
WITHIN PROPOSED 100'-0" x 120'-0"  
CLEARED AREA; (12000SF)  
Access Drive; (1,162SF)

N/F  
COUNTY OF CHATHAM, NC  
PARCEL# 0019573  
DB 1362 PG 799  
ZONED R-5

**TOWER FALL RADIUS NOTE:**

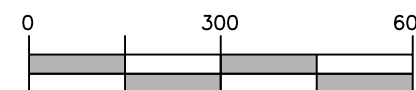
PROPOSED TOWER IS DESIGNED BY TOWER MANUFACTURER  
TO HAVE A ZERO (0) FOOT FALL RADIUS.



**GENERAL NOTES:**

1. THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A REPORT OF TITLE.
2. THIS PLAN DOES NOT REPRESENT A TITLE SURVEY.
3. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
4. SUBJECT PARCEL NUMBER: 0019573
5. SUBJECT PARCEL REFERENCE: DEED BOOK 1362, PAGE 799
6. AREA OF SUBJECT PARCEL: 66.548± ACRES
7. SUBJECT PROPERTY ZONING: R-5
8. INFORMATION SHOWN HEREON BASED ON AERIAL PHOTOGRAPHY, DATED NOVEMBER 3, 2021, AS WELL AS INFORMATION CONTAINED IN THE PUBLIC RECORDS OF THE CHATHAM COUNTY REGISTER OF DEEDS AND TAX ASSESSORS OFFICES.

1 SITE OVERVIEW  
C-1 11x17 SCALE: 1" = 300'-0"  
24x36 SCALE: 1" = 150'-0"

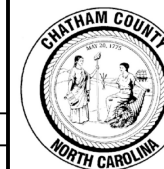


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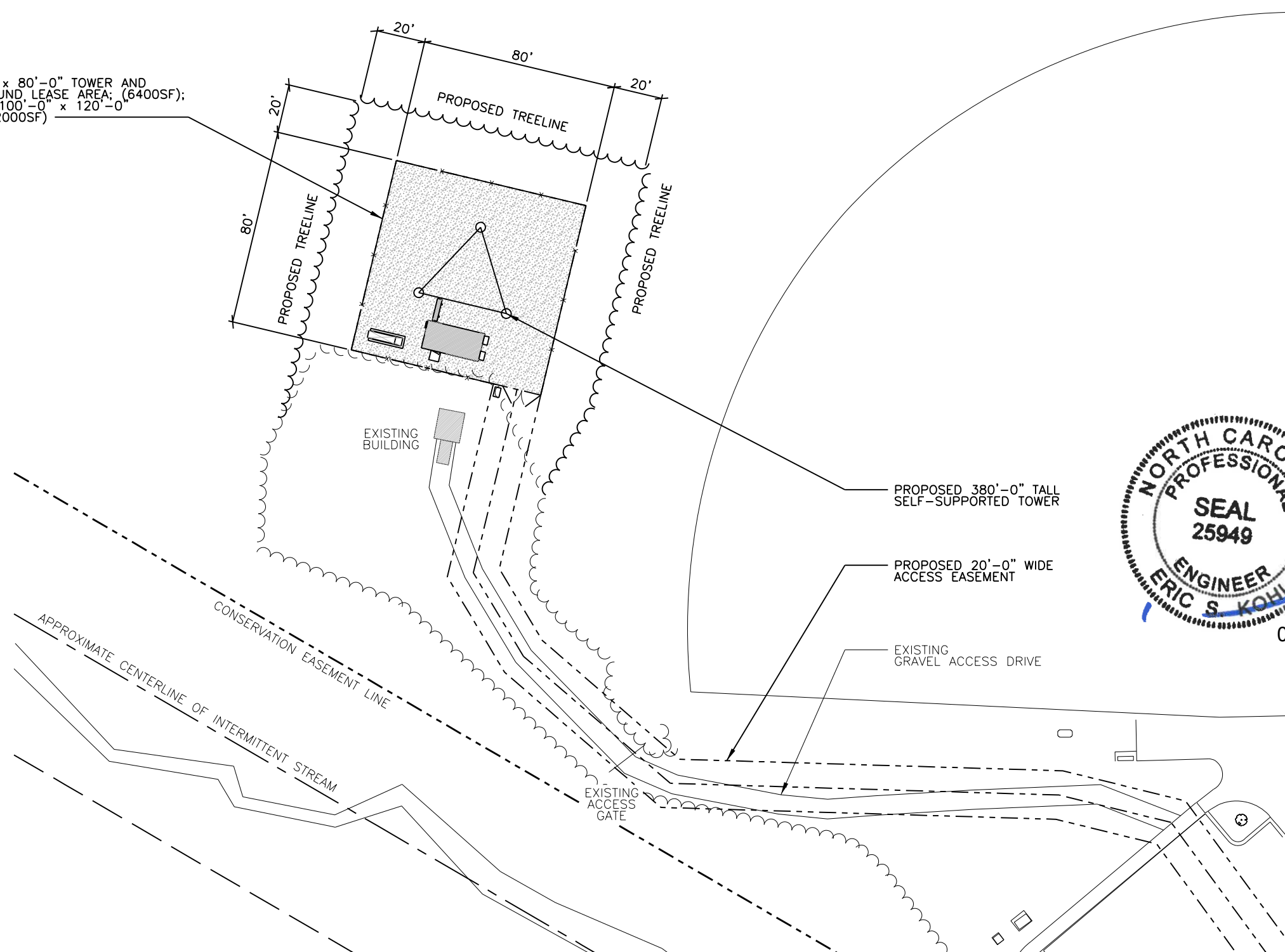
CHATHAM COUNTY, NC  
EMERGENCY OPERATIONS  
80-A EAST STREET  
PITTSBORO, NC 27312  
(919) 542-8204

SITE OVERVIEW

C-1

SEAL:

PROPOSED 80'-0" x 80'-0" TOWER AND EQUIPMENT COMPOUND, LEASE AREA; (6400SF); WITHIN PROPOSED 100'-0" x 120'-0" CLEARED AREA; (12000SF)



03/10/2022

### CONTRACTOR NOTES

CONTRACTOR SHALL CONTACT A SUBSURFACE UTILITY LOCATOR FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS BY TEST PIT AS NECESSARY.

LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND FOR PLANNING PURPOSES ONLY.

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES, THE LATEST EDITION THEREOF.

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENT AGENCIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.

CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH APPROPRIATE UTILITY OWNERS.

THESE PLANS ARE NOT FOR RECORDATION OR CONVEYANCE.

PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO PRECONSTRUCTION CONDITIONS BY THE CONTRACTOR.

DAMAGE TO UTILITIES OR PROPERTY OF OTHERS BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO LIKE-NEW CONDITION.

NOTIFY "NC811" AT 811 OR 1-800-632-4949 AT LEAST 72 HOURS PRIOR TO DOING ANY EXCAVATION IN THIS AREA.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE.

THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

1  
C-2  
**SITE PLAN**  
11x17 SCALE: 1" = 50'-0"  
24x36 SCALE: 1" = 25'-0"

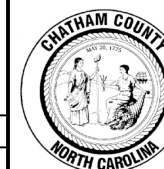


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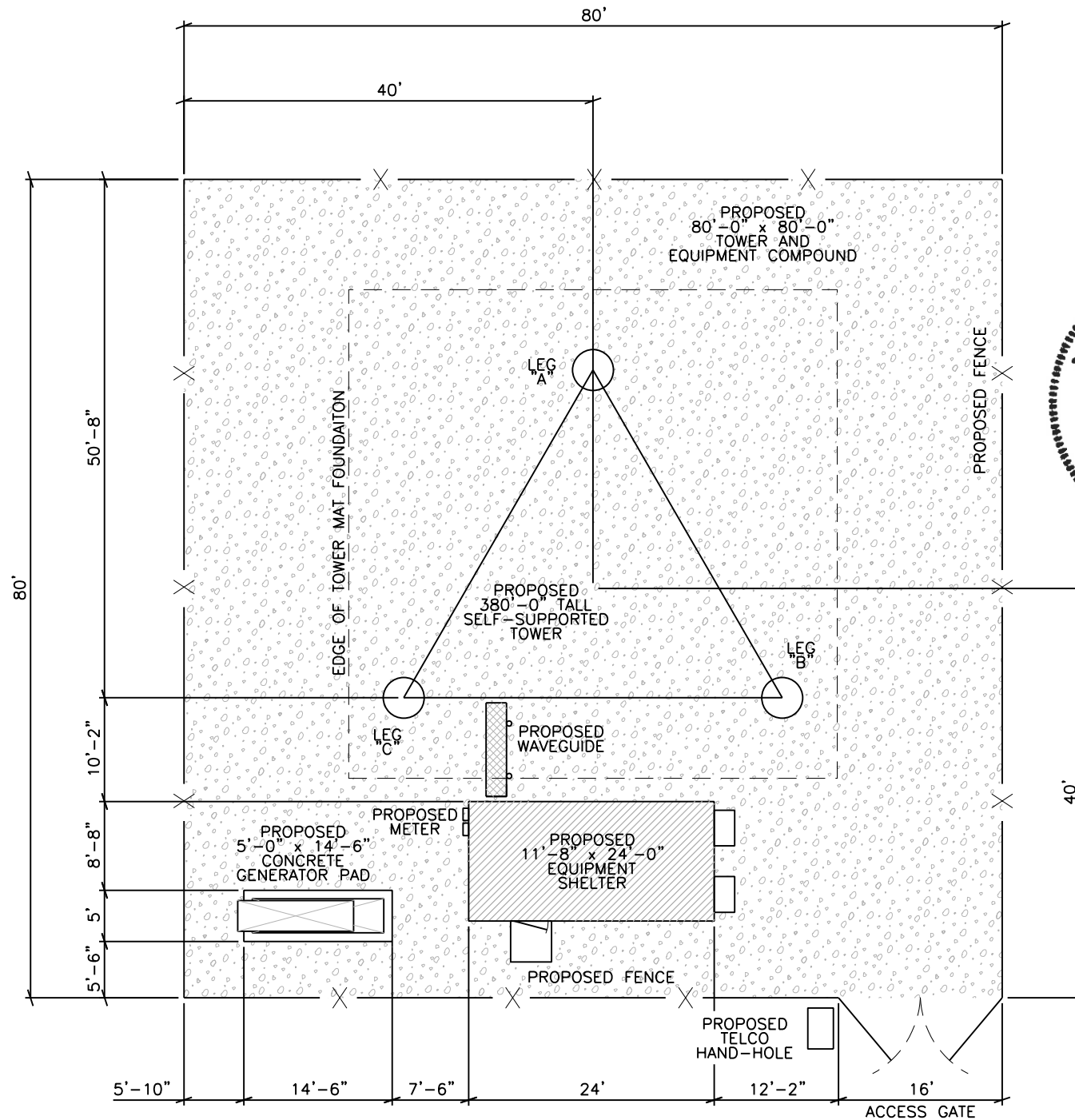
SITE PLAN

C-2

SEAL:

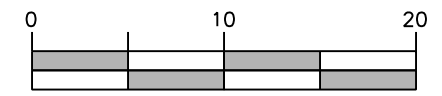
# CONSTRUCTION NOTES

1. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF ALL SURVEY DATA AS INDICATED IN THE PLANS AND SPECIFICATIONS AND/OR AS PROVIDED BY MOTOROLA.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL ESTABLISHED SURVEY CONTROL POINTS. IF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS MOVE OR DESTROY ANY SURVEY CONTROL POINTS, THE COST INCURRED BY THE OWNER OR MOTOROLA TO RE-ESTABLISH THEM WILL BE BORNE BY THE CONTRACTOR.
3. BEFORE CLEARING, THE CONTRACTOR SHALL ENSURE THAT THE AREA TO BE CLEARED HAS BEEN PROPERLY MARKED BY THE SURVEYORS AND ANY APPROVALS REQUIRED FROM THE LOCAL AUTHORITIES HAVE BEEN OBTAINED.
4. THE CONTRACTOR SHALL ENSURE THAT ALL THE TREES, SHRUBS, STUMPS AND OTHER SURFACE OBSTRUCTIONS ARE REMOVED AND DISPOSED OF AT AN APPROVED DUMPSITE.
5. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
6. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS AND EQUIPMENT NOT SHOWN IN THE BILL OF MATERIALS AS OWNER FURNISHED, AND ALL LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
7. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO PERFORMING WORK TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES OR INTERFERENCES WHICH AFFECT THE WORK OF THIS CONTRACT.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
9. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
10. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, VEGETATION, AND RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
11. SEED AND MULCH ALL DISTURBED AREAS NOT COVERED BY OTHER MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS.
12. ANY PROPERTY DAMAGE CAUSED BY THE CONTRACTOR OR HIS OPERATIONS SHALL BE CORRECTED AND/OR RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER(S) AND MOTOROLA AT NO ADDITIONAL COST TO THE PROPERTY OWNER OR MOTOROLA.
13. WHERE POSSIBLE BY THE LOCAL CODES, AN EPA APPROVED HERBICIDE SHALL BE APPLIED TO ALL AREAS PRIOR TO LAYING DOWN THE GEOTEXTILE FABRIC, THE RATE OF APPLICATION OF THIS HERBICIDE SHALL BE A MIN. OF 10 lbs. OF PRODUCT PER ACRE, UNLESS OTHERWISE REQUIRED BY LOCAL CODES OR MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL CHECK THE LOCAL CODES PRIOR TO APPLYING DEFOLIANT. SUBSTANCE SHALL NOT BE APPLIED IF GROUND IS FROZEN OR IF DANGER OF DEFOLIANT BEING WASHED BEYOND THE INTENDED AREA IS PRESENT.



03/10/2022

1  
C-3  
COMPOUND PLAN  
11x17 SCALE: 1" = 10'-0"  
24x36 SCALE: 1" = 5'-0"



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NORTHEAST DISTRICT PARK  
5410 BIG WOODS RD.  
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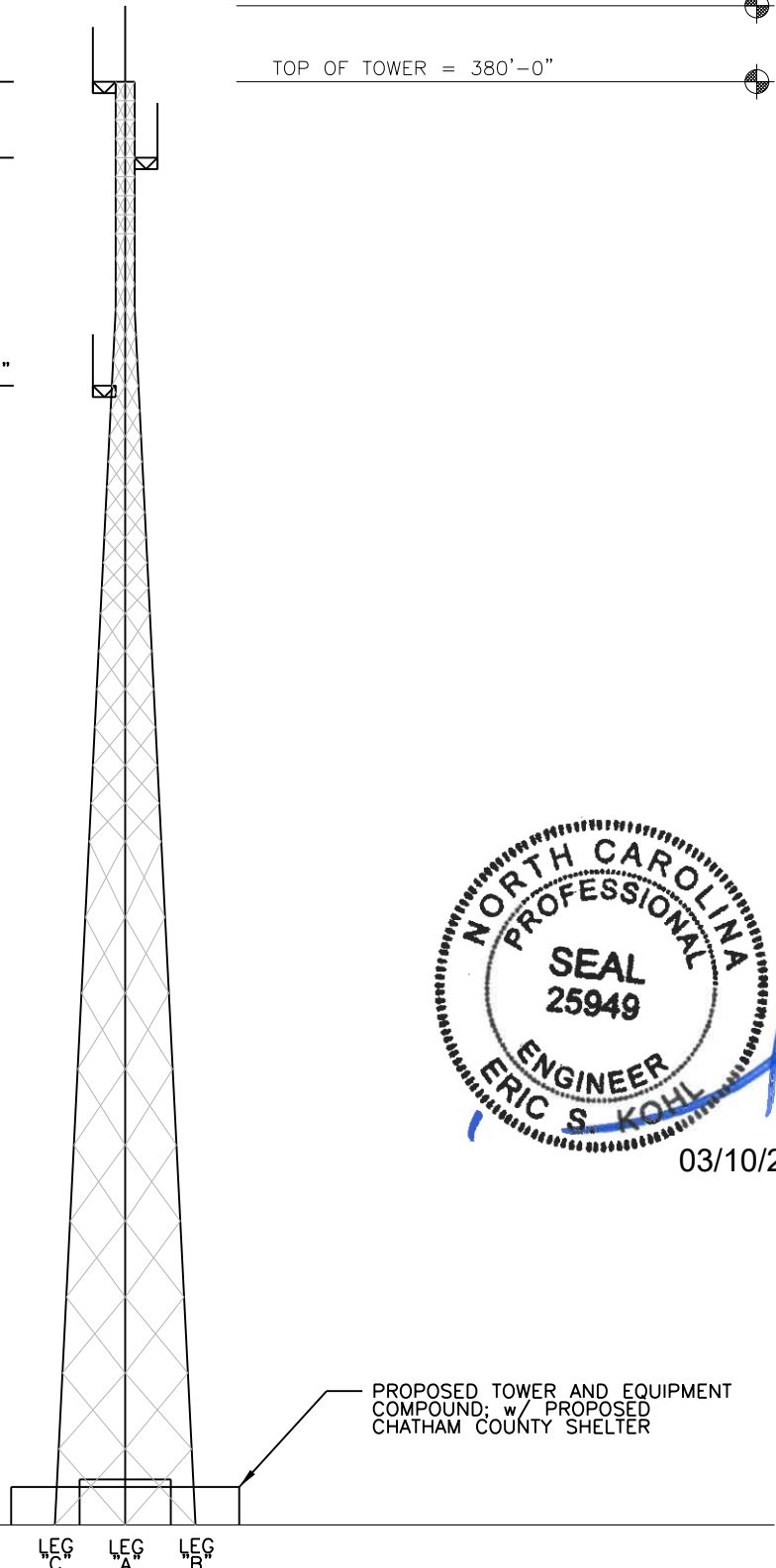
CHATHAM COUNTY, NC  
EMERGENCY OPERATIONS  
80-A EAST STREET  
PITTSBORO, NC 27312  
(919) 542-8204

COMPOUND PLAN  
**C-3**

SEAL:

- PROP. Rx ANTENNA [Rx#1] = 380'-0"  
CC807-11; LEG "C"
- PROP. Tx ANTENNA [Tx#1] = 360'-0"  
CC807-11; LEG "B"
- PROP. PAGING ANTENNA [PAGING#1] = 300'-0"  
COL53-160; LEG "C"

TOP OF LIGHTNING ROD = 400'-0"  
TOP OF TOWER = 380'-0"



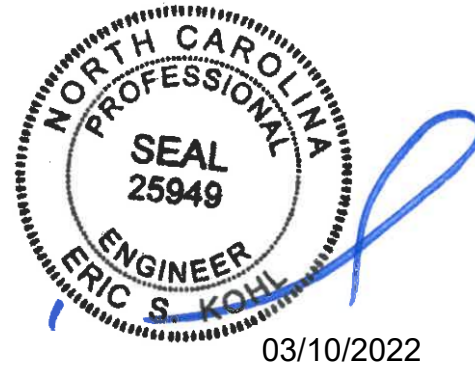
PROPOSED TOWER AND EQUIPMENT COMPOUND; w/ PROPOSED CHATHAM COUNTY SHELTER

**FAA INFORMATION**

THE FEDERAL AVIATION ADMINISTRATION HAS COMPLETED AN AERONAUTICAL STUDY AND HAS DETERMINED THAT THE TOWER POSES NO HAZARD TO AIR NAVIGATION.

STUDY #: \_\_\_\_\_

THE MAXIMUM HEIGHT ALLOWABLE BY THE FEDERAL AVIATION ADMINISTRATION, WITH APPURTENANCES, IS \_\_\_\_\_ FT.



PROPOSED EQUIPMENT AND COAXIAL CABLE SCHEDULE									
USE	TYPE	MODEL#	ELEVATION	AZIMUTH	LEG	MOUNT	COAX	LENGTH	BANDING
Rx#1	OMNI	CC807-11	380'-0"	N/A	C	SIDE ARM	7/8	430	RED
TTA	TTA	--	375'-0"	N/A	C	--	1/2	425'	RED/WHITE
Tx#1	OMNI	CC807-11	360'-0"	N/A	B	SIDE ARM	15/8	410'	GREEN
PAGING #1	OMNI	COL53-160	300'-0"	N/A	C	SIDE ARM	7/8	350'	WHITE

**GENERAL CONSTRUCTION NOTES**

- ALL VERTICAL TRANSMISSION LINE RUNS FROM THE ANTENNAS SHALL BE GROUNDED NEAR THE TOP AND BOTTOM OF THE TOWER (BEFORE THE CABLE MAKES HORIZONTAL TRANSITION AND NEAR THE ENTRY PORT ON THE SHELTER. ADDITIONAL TRANSMISSION LINE GROUND KITS SHALL BE INSTALLED AS NEEDED TO LIMIT THE DISTANCE BETWEEN GROUND KITS TO A RANGE OF 50FT (MIN.) TO 65FT (MAX.). TOWER TOP AMPLIFIER SHALL BE GROUNDED TO TOWER TOP GROUND BAR.
- THE CONTRACTOR SHALL CONDUCT A SWEEP TEST ON ALL THE NEWLY INSTALLED TRANSMISSION LINES TO DETERMINE THE CABLE CONDUCTOR RESISTANCE, CABLE INSERTION LOSS, REFLECTION AND STIMULUS RESPONSE MEASUREMENTS.
- DRIP LOOPS SHALL BE INCORPORATED IN CABLE RUNS TO PREVENT WATER FROM TRICKLING DOWN THE LINES INTO THE BUILDING.
- ALL TRANSMISSION LINES SHALL BE MARKED WITH APPROPRIATE COLOR TAPE BANDS (ONE INCH WIDE COLOR TAPE) FOR IDENTIFICATION NEAR THE ANTENNA, AT THE BOTTOM OF VERTICAL RUN, JUST BEFORE ENTERING THE BUILDING AS WELL AS INSIDE THE BUILDING, BEFORE CONNECTING TO THE SURGE SUPPRESSORS. FOR COLOR CODING SCHEME, SEE EQUIPMENT AND CABLE SCHEDULE.
- ALL MICROWAVE MOUNTING PIPES AND SIDE STRUTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ALL MICROWAVE ELEVATIONS ARE MEASURED FROM THE TOP OF STONE TO THE ANTENNA CENTERLINE. ALL LMR ANTENNA ELEVATIONS ARE MEASURED FROM TOP OF STONE TO THE BOTTOM OF THE RF ELEMENT, OR TOP OF MOUNTING BASE, AS APPLICABLE.
- ALL ANTENNA SIDE ARMS AND MOUNTING PIPES SHALL BE PROVIDED BY MOTOROLA WITH THE TOWER AND INSTALLED BY CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE PIPE TO PIPE CLAMPS AS NEEDED TO INSTALL THE LMR ANTENNAS TO THE MOTOROLA PROVIDED ANTENNAS SIDE ARMS & MOUNTING PIPES.
- THE CONTRACTOR OR MICROWAVE ANTENNA PROVIDER SHALL PROVIDE AND INSTALL COAX PORT BOOTS AS REQUIRED TO INSTALL THE COAX AND WAVEGUIDE WHERE THEY ENTER THE SHELTER.
- THE ICE BRIDGE SHALL BE PROVIDED BY MOTOROLA AND INSTALLED BY CONTRACTOR.
- PRIOR TO MOBILIZATION TO THE SITE, THE ANTENNA CONTRACTOR SHALL REQUEST FINAL AND LATEST ANTENNA INFORMATION FROM MOTOROLA SUCH AS MODEL, INSTALL ELEVATION, AZIMUTH AND OTHER DATA NEEDED FOR PROPER INSTALLATION.

**TOWER FALL RADIUS NOTE:**

PROPOSED TOWER IS DESIGNED BY TOWER MANUFACTURER TO HAVE A ZERO (0) FOOT FALL RADIUS.

1  
C-4  
**TOWER ELEVATION**  
NOT TO SCALE

NO.	DATE	REVISION
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CHATHAM COUNTY  
CHATHAM COUNTY, NC  
EMERGENCY OPERATIONS  
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**TOWER ELEVATION**  
**C-4**

SEAL:

### PROPOSED LAND DISTURBANCE

PROPOSED DISTURBED AREA	13,800.00±sf
PROPOSED IMPERVIOUS AREA	6,400.00±sf
TOTAL PARCEL AREA	66.548 AC

### SITE PLAN NOTES:

THE PROPOSED SITE SHALL BE GRADED AND THE COMPOUND SHALL BE BUILT UP WITH PROPOSED GRAVEL WITH A SLIGHT CROWN IN THE CENTER.

CONTRACTOR SHALL STOCKPILE TOP SOIL AND SHALL UTILIZE TOP SOIL FOR TEMPORARY AND PERMANENT SEEDING OF DENUDED OR DAMAGED AREAS.

SILT FENCING SHALL BE USED TO PROTECT EXISTING ADJACENT AREAS FROM SEDIMENT AND OTHER DEBRIS.

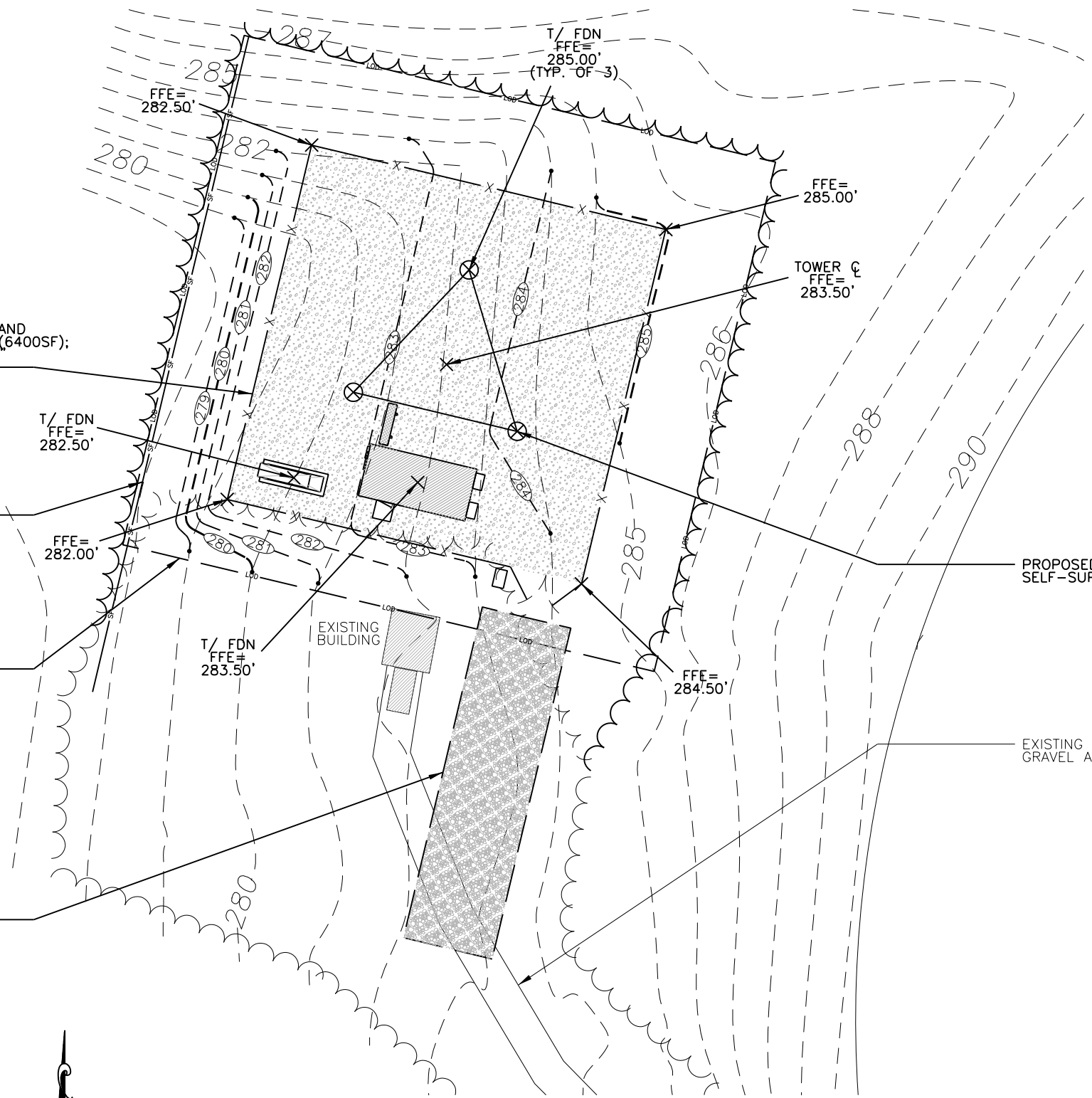


PROPOSED 80'-0" x 80'-0" TOWER AND EQUIPMENT COMPOUND LEASE AREA; (6400SF); WITHIN PROPOSED 100'-0" x 120'-0" CLEARED AREA; (12000SF)

PROPOSED SILT FENCE; 150±LF

PROPOSED LIMIT OF DISTURBANCE; 13,800±SF

PROPOSED 20'x75' LONG TEMPORARY CONSTRUCTION ENTRANCE



PROPOSED 380'-0" TALL SELF-SUPPORTED TOWER

EXISTING GRAVEL ACCESS DRIVE

### CONSTRUCTION SEQUENCE:

1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
2. CLEAR, GRUB, AND GRADE SITE.
3. CONSTRUCT EQUIPMENT COMPOUND AND TOWER TO INCLUDE FOUNDATIONS, FENCING, GROUNDING, AND ELECTRICAL SERVICE.
4. SEED DENUDED AREAS.
5. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

### LEGEND:

- LOD — LIMIT OF DISTURBANCE
- - SF - - SILT FENCE
- - XXX - - EXISTING CONTOUR
- - (XXX) - - PROPOSED CONTOUR

### EROSION AND SEDIMENT CONTROL PLAN

1  
C-5

11x17 SCALE: 1" = 30'-0"  
24x36 SCALE: 1" = 15'-0"

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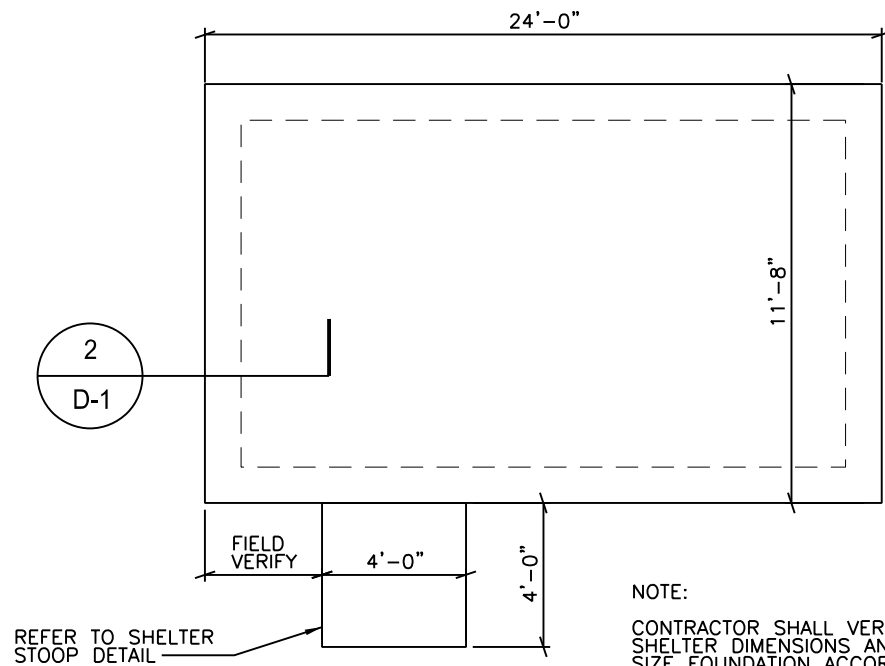
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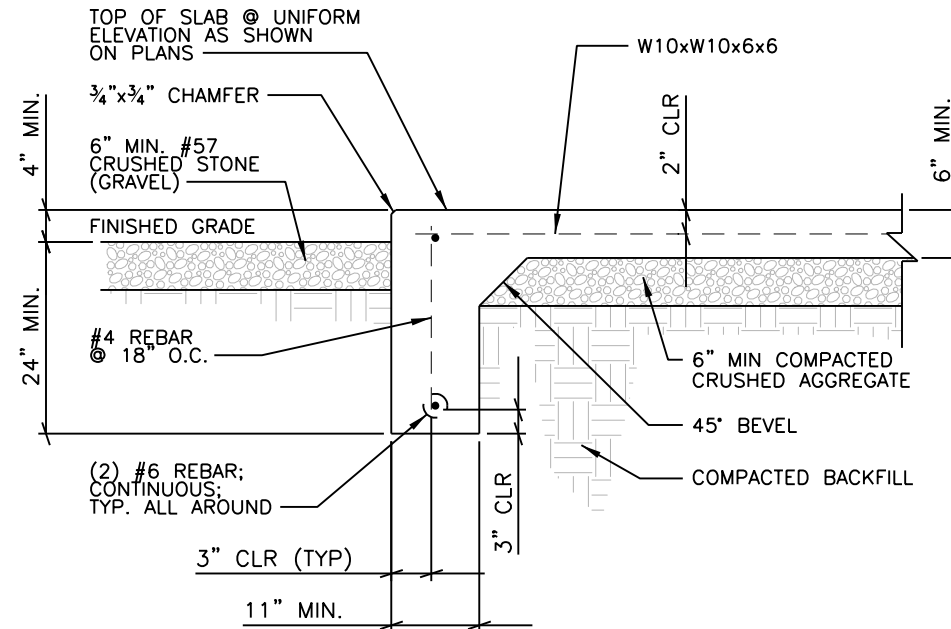
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EROSION AND SEDIMENT CONTROL PLAN  
**C-5**

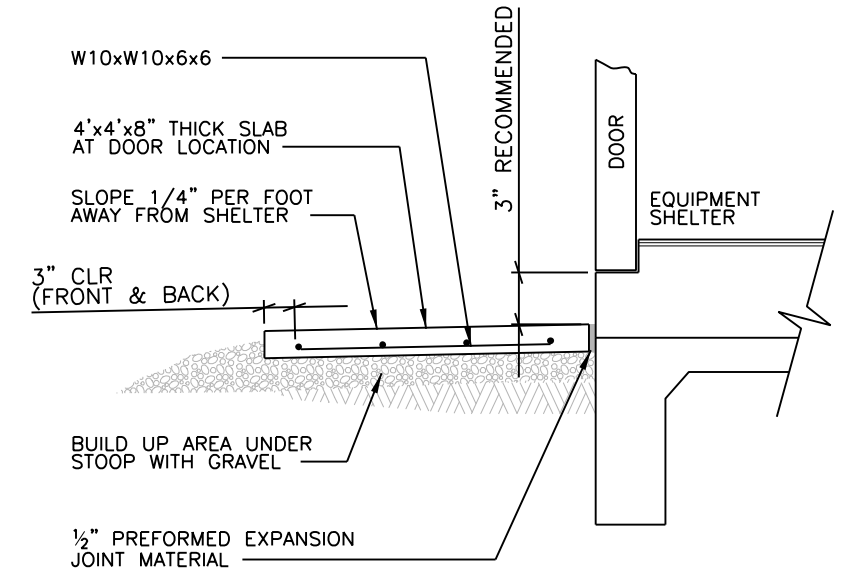
SEAL:



1 SHELTER FOUNDATION  
D-1 NOT TO SCALE

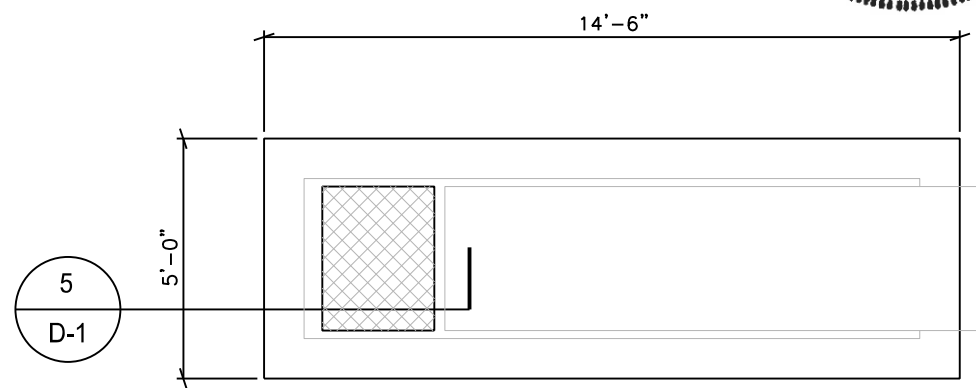


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D-1 NOT TO SCALE

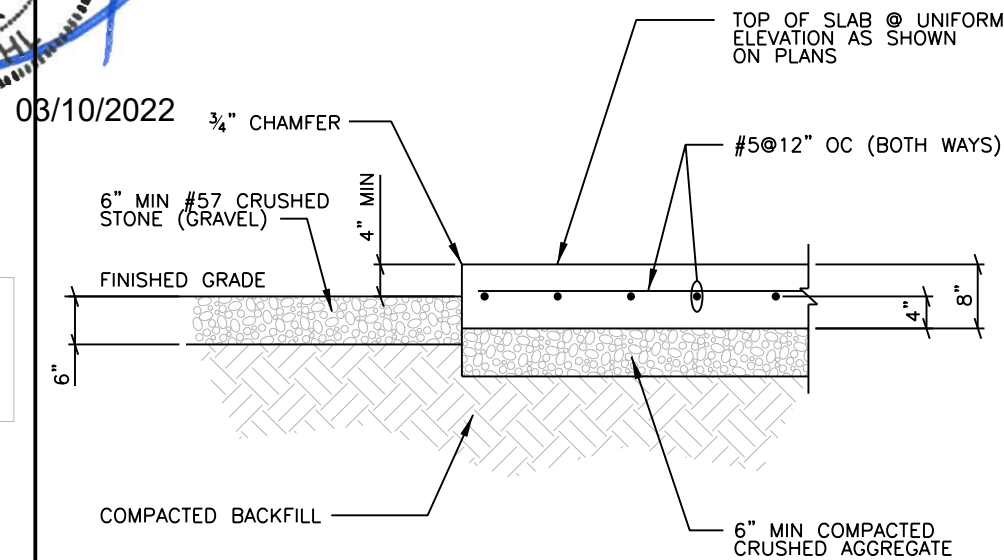


3 STOOP DETAIL  
D-1 NOT TO SCALE

NOTE:  
CONTRACTOR SHALL VERIFY  
GENERATOR DIMENSIONS  
AND ANY CUT-OUT AREAS



4 GENERATOR FOUNDATION  
D-1 NOT TO SCALE



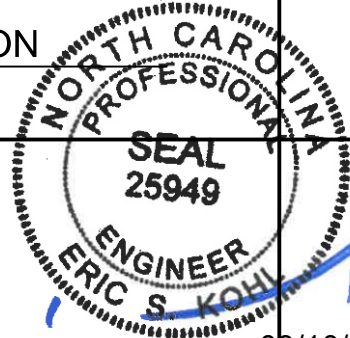
5 GENERATOR FOUNDATION SECTION  
D-1 NOT TO SCALE

**GENERAL CONCRETE NOTES**

1. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSED STRENGTH OF 3,000 PSI IN 28 DAYS (2,500 PSI PRIOR TO BACKFILL); CONTINUOUS INSPECTION IS NOT REQUIRED. CONCRETE SHALL CONFORM TO SLUMP: 4" MIN / 6" MAX AND AIR ENTRAINMENT: 2% - 3% BY VOLUME.
2. MAXIMUM COARSE AGGREGATED SIZE SHALL BE 3/4".
3. REINFORCEMENT SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATIONS A615 GRADE 60.
4. REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI FOR MINIMUM CLEARANCES.
5. ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C9-4.
6. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE AT BETWEEN 50°F AND 90°F.
6. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.
7. MINIMUM REBAR SPLICES SHALL BE 40 DIAMETERS. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.
8. CONTRACTOR SHALL CONSTRUCT ENTIRE FOUNDATION FOOTING PRIOR TO BACKFILLING AND POURING SLAB.

**GENERAL FOUNDATION NOTES**

1. CONTRACTOR SHALL GRADE SITE TO PROVIDE LEVEL FOUNDATION FOR SHELTER AND GENERATOR.
2. IF SOUND ROCK IS ENCOUNTERED, PREVENTING INSTALLATION OF SHELTER OR GENERATOR MAT PERIMETER FOOTING, CONTRACTOR MAY DRILL AND GROUT #4 REBAR AT 18" ON CENTER INTO ROCK. DRILL A MINIMUM OF 12" INTO SOUND ROCK AND ANCHOR REBAR WITH HIGH STRENGTH GROUT.
3. REBARS SHALL BE SUPPORTED ON GALVANIZED CHAIRS OR BRICKS. "PULL-UP" OF REINFORCEMENT AT THE TIME OF CONCRETE PLACEMENT IS NOT ALLOWED.



03/10/2022

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B	01/11/2022	ZONING DRAWINGS
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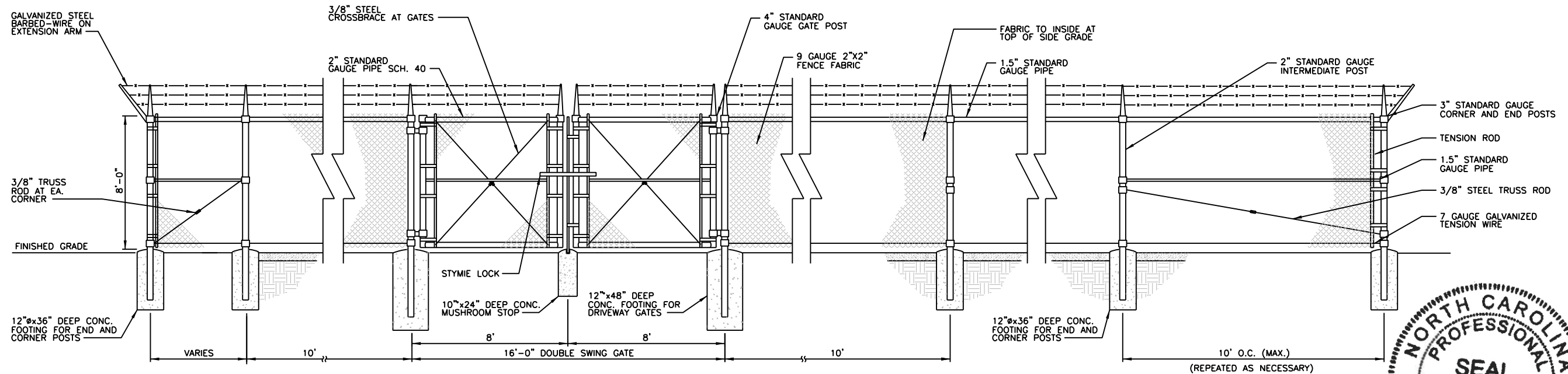
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MOTOROLA SOLUTIONS, INC.  
8720 RED OAK BLVD., SUITE 123  
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NORTHEAST DISTRICT PARK  
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CHAPEL HILL, NC 27517  
CHATHAM COUNTY, NC  
DATE OF ORIGATION : 03/07/2022  
DRAWN BY : TNW APPROVED BY :  
CHECKED BY : KCI# : 011904897\_H

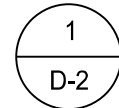
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(919) 542-8204

**CONSTRUCTION  
DETAILS**  
**D-1**  
SEAL:





NOTE:  
FOR EXACT LOCATION OF GATE(S), REFER TO SITE PLAN



### CHAIN LINK FENCE AND GATE ELEVATION

NOT TO SCALE

03/10/2022

## GENERAL FENCING NOTES

### COMPOUND FENCING

THE CONTRACTOR SHALL FURNISH AND INSTALL NEW PERIMETER SECURITY FENCE AS REQUIRED TO ENCLOSE THE NEW EQUIPMENT SHELTERS, ADJUSTED IF NECESSARY IN ACCORDANCE WITH FINAL BUILDING DESIGN. ALL MATERIALS AND LABOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE HEIGHT OF THE FENCE SHALL BE EIGHT (8) FEET, UNLESS THE DRAWINGS OTHERWISE INDICATED. THE CHAIN LINK FENCE, GATE(S) AND ACCESSORIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS IN A WORKMANLIKE MANNER.

FOR SITES THAT REQUIRE MODIFICATIONS OR ADDITIONS TO THE EXISTING FENCE, THE CONTRACTOR SHALL MATCH NEW FENCING WITH THE EXISTING HEIGHT AND TYPE. CONTRACTOR IS RESPONSIBLE FOR RE-ATTACHING EXISTING GROUNDS TO EXISTING FENCING AS A RESULT OF SITE EXPANSION OR DEVELOPMENT. ADDITIONAL FENCING WILL BE GROUNDED ACCORDING TO THE SECTION IDENTIFIED UNDER "GROUNDING".

FENCE IS TO BE INSTALLED IN A PROFESSIONAL MANNER TO ENHANCE THE APPEARANCE OF THE INSTALLATION, TO PREVENT ENTRANCE OF PERSONS AND ANIMALS AND TO PROTECT EQUIPMENT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN THAT THE GRADE AT THE FENCE LINE IS CORRECT AND FINAL BEFORE THE FENCE IS INSTALLED.

WARNING SIGNS USING THE INTERNATIONAL SYMBOL OF ELECTRICAL SHOCK HAZARD SHALL BE FURNISHED AND INSTALLED ON THE EXTERIOR OF ALL SIDES OF THE MAIN PERIMETER FENCE AND THE GATE. ADDITIONALLY, SIGNS SHALL BE FURNISHED AND INSTALLED THAT STATE "NO TRESPASSING" IN ENGLISH. THE SIGNS SHALL BE IMPERVIOUS TO WEATHERING, AND BE MOUNTED TO AVOID EASE OF REMOVAL BY VANDALS.

### POSTS

THE FENCE FABRIC SHALL BE SUPPORTED BY CORNER POSTS, LINE POSTS AND GATE POSTS (3 INCHES, 2.5 INCHES AND 4 INCHES DIAMETER RESPECTIVELY) MADE FROM SCHEDULE 40 TUBULAR STEEL HOT-DIPPED GALVANIZED INSIDE AND OUT. THESE POSTS SHALL BE BURIED TO A MINIMUM DEPTH OF 36 INCHES IN A CONCRETE OR ANCHOR FOUNDATION AND SHALL NOT BE SPACED MORE THAN TEN FEET APART. ALL POSTS SHALL BE PLUMB, WITH TOPS PROPERLY ALIGNED. ALL BRACE RAILS (EACH 1-5/8 INCH DIAMETER SCHEDULE 40 TUBULAR STEEL HOT-DIPPED GALVANIZED INSIDE AND OUT) AND TRUSS RODS (3/8 INCH DIAMETER HOT-DIPPED GALVANIZED ROD WITH TURNBUCKLES) SHALL BE USED IN THE FENCE CONSTRUCTION. TERMINAL POSTS SHALL BE PROVIDED AT EACH TERMINATION AND CHANGE IN HORIZONTAL OR VERTICAL DIRECTION OF 30 DEGREES OR MORE.

END, CORNER, PULL AND GATE POSTS ARE TO BE BRACED WITH THE SAME MATERIAL AS TOP RAIL. ALL POSTS SHALL BE SET IN A CONCRETE FOUNDATION OF 1:2:4 MIX HAVING A MINIMUM DIAMETER OF 9" AND AT LEAST A 42" DEPTH. LINE POSTS SHALL BE EVENLY SPACED 10' OR LESS APART.

### FENCE

FENCING SHALL CONSIST OF #9 GAUGE, 2-INCH ZINC COATED DIAMOND MESH, SECURED TO THE LINE POSTS BY #9 GAUGE ALUMINUM TIE WIRES SPACED AT 12 INCH INTERVALS. THE FABRIC SHALL BE ATTACHED TO THE CORNER OR GATE POSTS BY A TENSION BAR (3/16" x 3/4" HOT-DIPPED GALVANIZED STEEL STRIP) THREADED THROUGH THE LAST VERTICAL LINKS IN THE FABRIC. THE TENSION BAR SHALL BE ATTACHED TO THE POSTS USING TENSION BANDS NOT LESS THAN 15 INCHES ON CENTER. ATTACHMENT BOLTS FOR THE BANDS SHALL BE 3/8" x 1-1/2" GALVANIZED (MAY BE STAINLESS STEEL) CARRIAGE BOLTS WITH NUTS.

THE TENSION WIRE SHALL RUN ALONG THE BOTTOM OF THE FABRIC IN LIEU OF A BOTTOM RAIL. THE TENSION WIRE SHALL BE MADE OF 7 GAUGE HOT DIP GALVANIZED SPRING STEEL TENSIONWIRE WITH A BREAKING STRENGTH OF NOT LESS THAN 1900 POUNDS. THIS WIRE SHALL BE KEPT TAUT WITH GALVANIZED TURNBUCKLES AND ATTACHED TO THE POSTS WITH GALVANIZED HARDWARE OR CABLE CLAMPS. THE LOWER PORTION OF THE FENCE FABRIC SHALL BE ATTACHED TO THE TENSION WIRE WITH #9 GAUGE ROUND ALUMINUM TIE WIRES SPACED AT NOT MORE THAN 24 INCH INTERVALS. THE FABRIC MUST BE INSTALLED FLUSH TO THE GROUND/GRAVEL SURFACE IN WAY THAT SHALL PREVENT EVEN A SMALL CHILD FROM CRAWLING UNDERNEATH. THE MESH FENCING MATERIAL SHALL BE SECURED TO TERMINAL POSTS USING STRETCHER BARS AND STEEL BANDS AND LINE POSTS USING WIRE CLIPS. THE TOP OF THE FENCING SHALL HAVE BARBED WIRE WITH 45 DEGREE EXTENSION ARMS POINTED OUTSIDE THE FENCE AREA.

### GATE

A SIXTEEN FEET (16 FEET) WIDE GATE CONSISTING OF (2) EIGHT FEET WIDE HALVES, SHALL BE INSTALLED IN THE FENCE TO ALLOW PERSONNEL AND EQUIPMENT TO ENTER THE FENCED COMPOUND AND HAVE ACCESS TO THE ENTRANCE OF THE BUILDING OR SHELTER. GATE FRAMES SHALL BE CONSTRUCTED OF 2-1/2" OUTSIDE DIAMETER HEAVY DUTY OR GALVANIZED PIPE OR OF 1-1/4" SQUARE ALUMINUM TUBE. GATES MADE OF GALVANIZED PIPE SHALL BE ASSEMBLED USING CORNER FITTINGS OF HEAVY PRESSED STEEL OR MALLEABLE CASTINGS OR MAY BE WELDED IF THE ENTIRE FRAME IS HOT DIP GALVANIZED AFTER THE WELDING PROCESS IS COMPLETED. GATES MADE OF ALUMINUM TUBE MAY BE WELDED AT THE CORNERS. INDIVIDUAL GATES 10 FEET OR GREATER IN WIDTH SHALL HAVE AN INTERNAL VERTICAL BRACE OF 2 INCH HEAVY DUTY GALVANIZED PIPE OR OF 1 1/4 INCH SQUARE ALUMINUM TUBE. VERTICAL EXTENSIONS SHALL BE INSTALLED ONE FOOT ABOVE THE GATE FRAME TO ACCOMMODATE THREE STRANDS OF BARBED WIRE. ALL GATES SHALL BE EQUIPPED WITH HEAVY DUTY GALVANIZED STEEL TYPE HINGES OF ADEQUATE STRENGTH TO SUPPORT THE GATE. THESE HINGES SHALL HAVE LARGE BEARING SURFACES FOR CLAMPING IN POSITION. THE HINGES SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE. GATES SHALL BE INSTALLED PLUMB, LEVEL AND SECURE FOR FULL OPENING WITHOUT INTERFERENCE. THEY SHALL BE CAPABLE OF BEING OPENED AND CLOSED EASILY BY ONE PERSON WITHOUT BINDING OR DRAGGING. LATCHES, STOPS AND KEEPERS SHALL BE PROVIDED FOR ALL GATES. DOUBLE GATE LATCHES SHALL HAVE A DROP BAR ARRANGED TO ENGAGE THE CENTER STOP. THE GATE SHALL BE SECURED BY A POSITIVE TYPE LOCKING LATCH THAT CAN BE SECURED BY A PADLOCK PROVIDED BY MOTOROLA. THIS LATCH ASSEMBLY SHALL INCLUDE A PIN-TYPE MECHANISM THAT SECURES THE GATE BY CAUSING THE PIN TO ENTER A SOCKET SECURED IN CONCRETE AT THE BOTTOM AND CANNOT BE REMOVED UNTIL THE LOCKING LATCH IS OPENED. THE CONSTRUCTION OF THE GATE SHALL INCLUDE REINFORCING TO PREVENT SAGGING OR BENDING. A PLUNGER ROD AND CATCH SHALL ALSO BE INSTALLED TO SECURE GATE IN THE OPEN POSITION.

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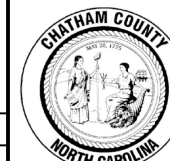
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DRAWN BY : TNW      APPROVED BY :

CHECKED BY :      KCI# : 011904897\_H



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CONSTRUCTION  
DETAILS

D-2

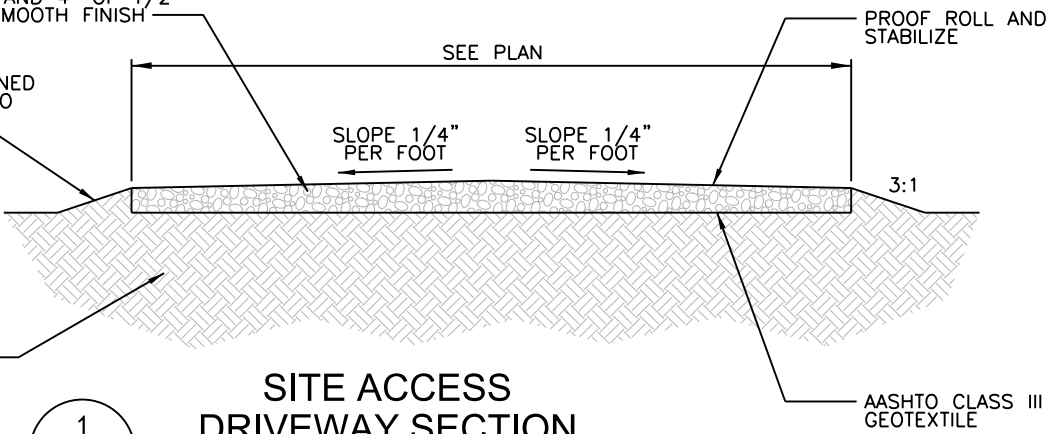
SEAL:

8" OF CRUSHED GRAVEL, COMPACTED AND ROLLED; 4" OF 3/4" THICK COARSE GRAVEL FOR STRONG BASE, AND 4" OF 1/2" THICK CRUSHER RUN FOR SMOOTH FINISH

SHOULDER TO BE GRASS-LINED WITH 3:1 SLOPE; TO TIE INTO EXISTING GRADE

EXISTING GRADE

PROOF ROLL AND STABILIZE SUBGRADE



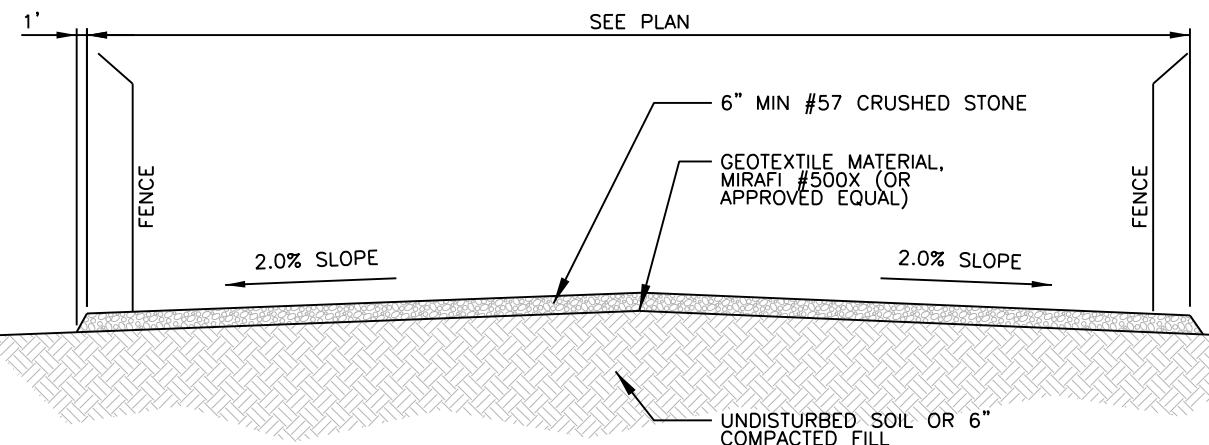
1  
D-3

**SITE ACCESS DRIVEWAY SECTION**

NOT TO SCALE

**CONSTRUCTION ENTRANCE NOTES**

1. A STABILIZED ENTRANCE PAD OF 2"-3" WASHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
2. FILTER FABRIC OR COMPACTED CRUSHER RUN STONE SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN SEE STD. NO. 30.11B.
6. CHATHAM COUNTY MAY REQUIRE A STANDARD COMMERCIAL DRIVEWAY (STD. 10.24 & 10.25) TO ACCESS THE CONSTRUCTION SITE IF THE DRIVEWAY IS ON A THOROUGHFARE.



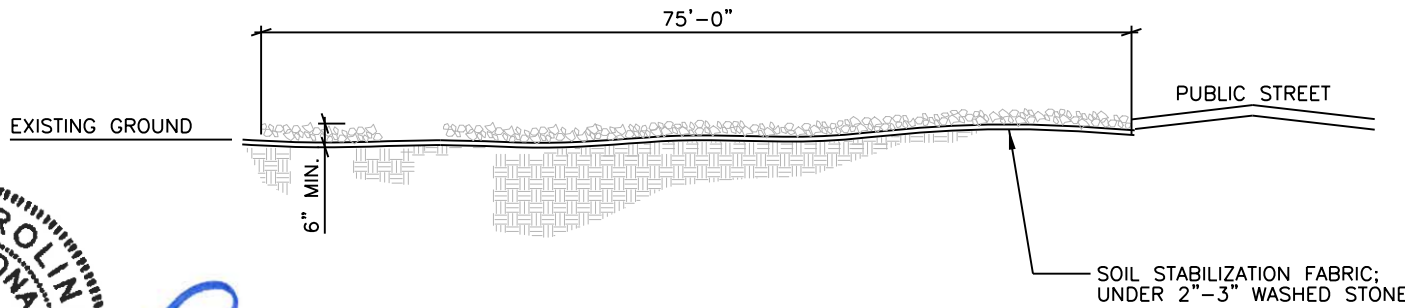
2  
D-3

**COMPOUND ELEVATION**

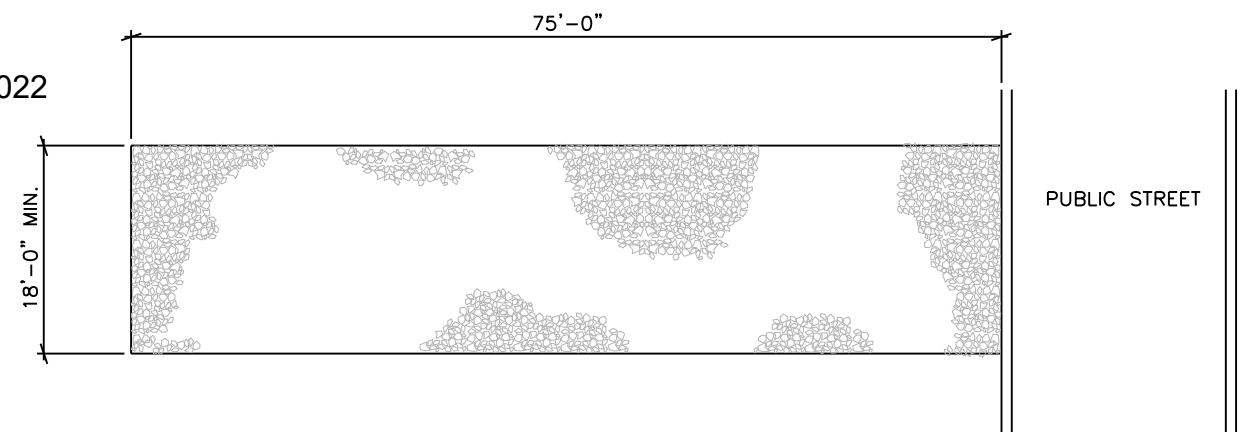
NOT TO SCALE



03/10/2022



**ELEVATION**



**PLAN VIEW**

3  
D-3

**STABILIZED CONSTRUCTION ENTRANCE STANDARD DETAIL 30.11A**

NOT TO SCALE

DETAIL APPROVAL DATE: 02/2007

**SITE COMPOUND AND ACCESS SECTION NOTES**

1. GRAVEL SHALL BE LAID ON THE ROAD ABOVE THE GEOTEXTILE FABRIC IN TWO LAYERS. THE BOTTOM LAYER SHALL CONSIST OF 4" THICK 3/4" COARSE GRAVEL PROVIDING THE STRONG BASE AND THE TOP LAYER OF 4" THICK CRUSHER RUN 1/2" FINE GRAVEL PROVIDING THE SMOOTH TOP SURFACE. THE CRUSHED AGGREGATE SHALL CONSIST OF CRUSHED LIMESTONE OR CRUSHED NATURAL GRAVEL, FREE FROM LUMPS OR BALLS OF CLAY OR OTHER OBJECTIONABLE MATTER, AND REASONABLE FREE FROM THIN AND ELONGATED PIECES OF DIRT. AGGREGATES SHALL CONSIST OF ANGULAR FRAGMENTS, DURABLE AND SOUND, AND SHALL BE REASONABLY UNIFORM IN DENSITY AND QUALITY.
2. GEOTEXTILE FABRIC SHALL NOT BE USED ON ROAD SECTIONS WITH STEEP GRADE (>10%) OR ROCK BASE TO PREVENT SLIPPING. ON STEEP SLOPES, SLOPE STABILIZATION MEASURES SHALL BE USED INSTEAD.
3. THE ROAD SHALL BE GRAVELED IN SUCH A MANNER AS TO PROVIDE A CROWN IN THE CENTER, WITH THE ROAD SURFACE SLOPING AWAY FROM CENTER SO THE WATER INSTANTLY RUNS OFF INTO THE SWALES ON THE SIDES. THE ROAD SHALL BE FLARED AT THE INTERSECTION OF THE HIGHWAY IN ORDER TO PROVIDE ADEQUATE TURNING RADIUS FOR THE VEHICLE. FOUR FEET WIDE SWALES SHALL BE PROVIDED ON EITHER SIDE OF THE ROAD TO FACILITATE EASY RUN-OFF OF RAINWATER.
4. WHERE APPROVED THE LOCAL CODES, AN EPA APPROVED HERBICIDE SHALL BE APPLIED TO ALL AREAS PRIOR TO LAYING DOWN THE GEOTEXTILE FABRIC, THE RATE OF APPLICATION OF THIS HERBICIDE SHALL BE A MIN. OF 10 lbs. OF PRODUCT PER ACRE, UNLESS OTHERWISE REQUIRED BY LOCAL CODES OR MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL CHECK WITH LOCAL CODES PRIOR TO APPLYING DEFOLIANT. SUBSTANCE SHALL NOT BE APPLIED IF GROUND IS FROZEN OR IF DANGER OF DEFOLIANT BEING WASHED BEYOND THE INTENDED AREA IS PRESENT.

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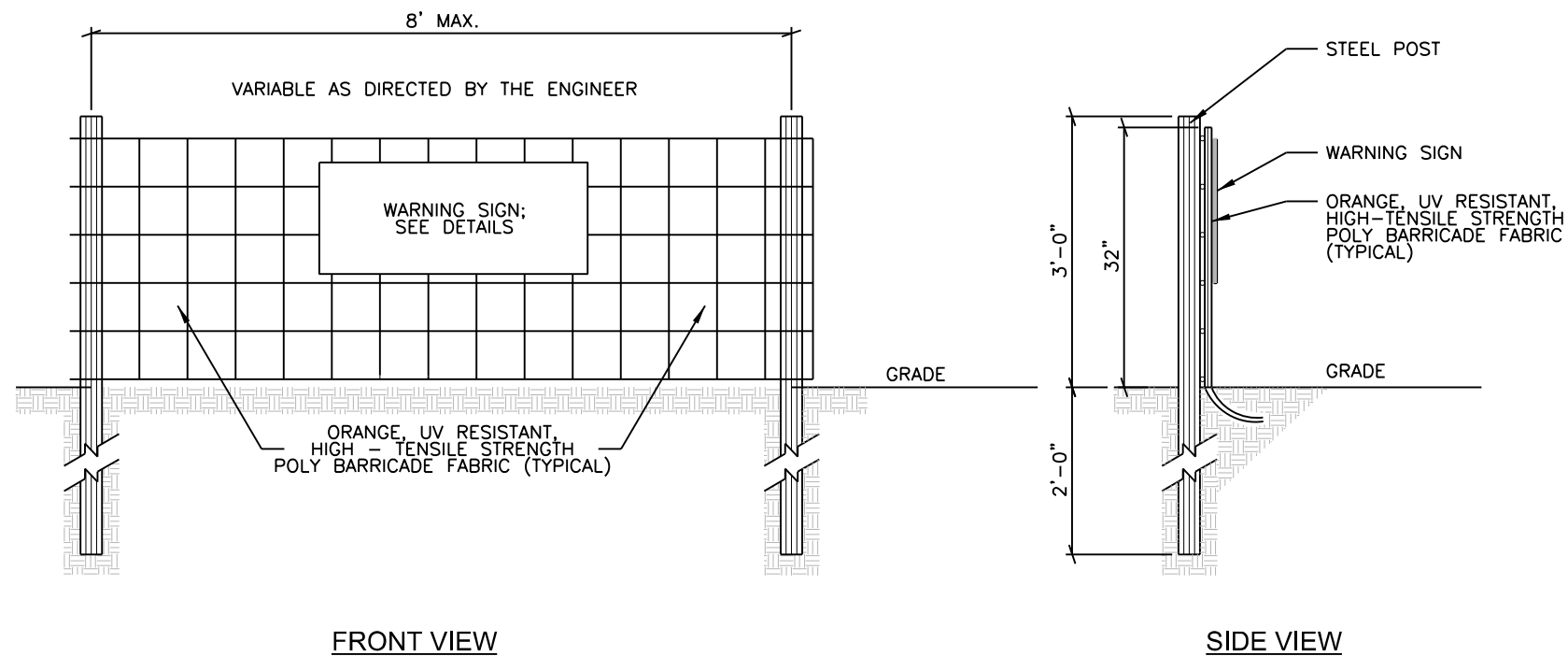
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**CONSTRUCTION DETAILS**  
**D-3**

SEAL:



FRONT VIEW

SIDE VIEW

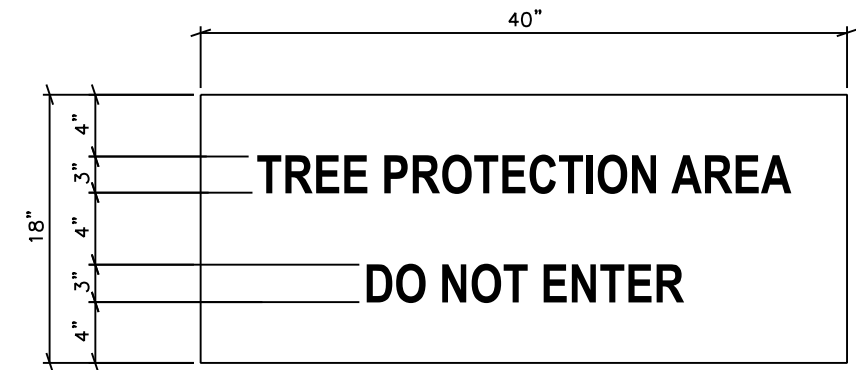
1  
D-4

**TREE PROTECTION FENCING DETAIL**

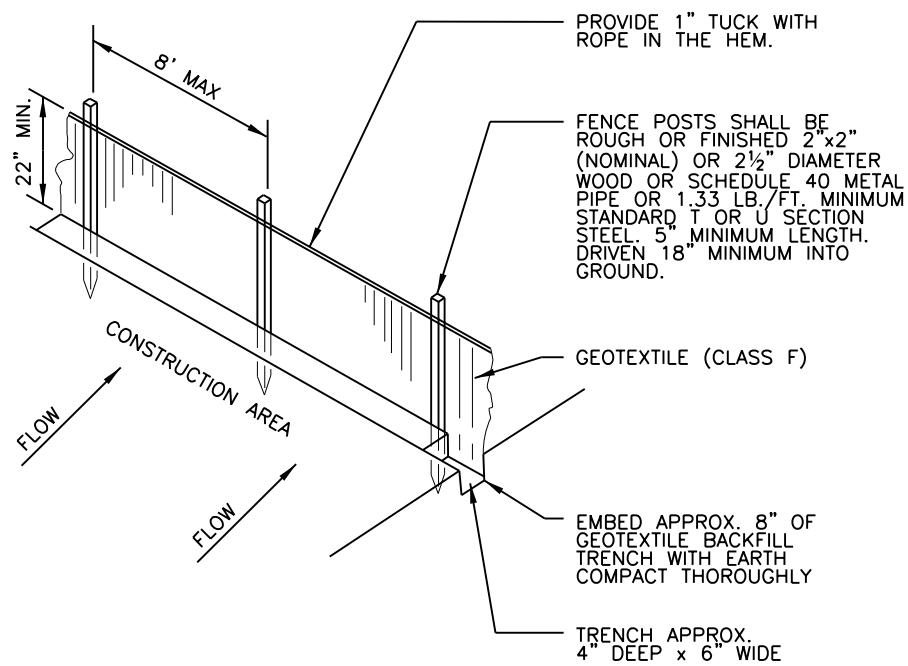
NOT TO SCALE

**TREE PROTECTION FENCE NOTES:**

1. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
2. LETTERS TO BE 3" HIGH MINIMUM AND CLEARLY LEGIBLE.
3. SIGNS SHALL BE PLACED AT 10'-0" MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 10'-0" ON CENTER THEREAFTER. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
4. ADDITIONAL SIGNS MAY BE REQUIRED BY LOCAL JURISDICTION BASED ON ACTUAL FIELD CONDITIONS.
5. MAINTAIN PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.



**TREE PROTECTION WARNING SIGN DETAIL**



2  
D-4

**SILT FENCE DETAIL**

NOT TO SCALE

**SILT FENCE NOTES:**

1. GEOTEXTILE FABRIC TO BE FASTENED SECURELY TO FENCE POST BY USE OF WIRE TIES OR HOG RINGS. 3 FASTENERS PER POST.
2. ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE SHALL BE SECURELY FASTENED TO A COMMON POST OR OVERLAPPED 3' (MIN.).
3. THIS DEVICE IS INTENDED TO CONTROL SHEET FLOW ONLY. IT WILL NOT BE USED IN AREAS OF CONCENTRATED FLOW WITH A DRAINAGE AREA OF 1/2 ACRE OR MORE.
4. ORANGE COLORED SILT FENCE MAY BE USED AS TREE PROTECTION FENCE.



03/10/2022

**SOIL & EROSION CONTROL NOTES:**

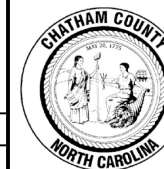
1. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
2. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THOSE SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL NEW DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE CONSTRUCTION MANAGER IMMEDIATELY.
3. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER IS INSTALLED.
4. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
5. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT REACHES 12" IN HEIGHT WITHIN THE SILT FENCE BARRIERS.
6. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES MAY RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
7. ALL CONSTRUCTION SHALL CONFORM TO LOCAL AGENCY STANDARDS AND SPECIFICATIONS.
8. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT IF REQUIRED SHALL BE PRESENT ON THE JOB SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 45 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
10. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION.
11. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AFTER THE SITE HAS BEEN ACCEPTED BY MOTOROLA AND AFTER CERTIFICATE OF OCCUPANCY.

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CHARLOTTE, NC 28217  
CONTACT: HEATHER MASON  
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CHATHAM COUNTY  
NORTHEAST DISTRICT PARK  
5410 BIG WOODS RD.  
CHAPEL HILL, NC 27517  
CHATHAM COUNTY, NC  
DATE OF ORIGATION : 03/07/2022  
DRAWN BY : TNW APPROVED BY :  
CHECKED BY : KCI# : 011904897\_H



CHATHAM COUNTY, NC  
EMERGENCY OPERATIONS  
80-A EAST STREET  
PITTSBORO, NC 27312  
(919) 542-8204

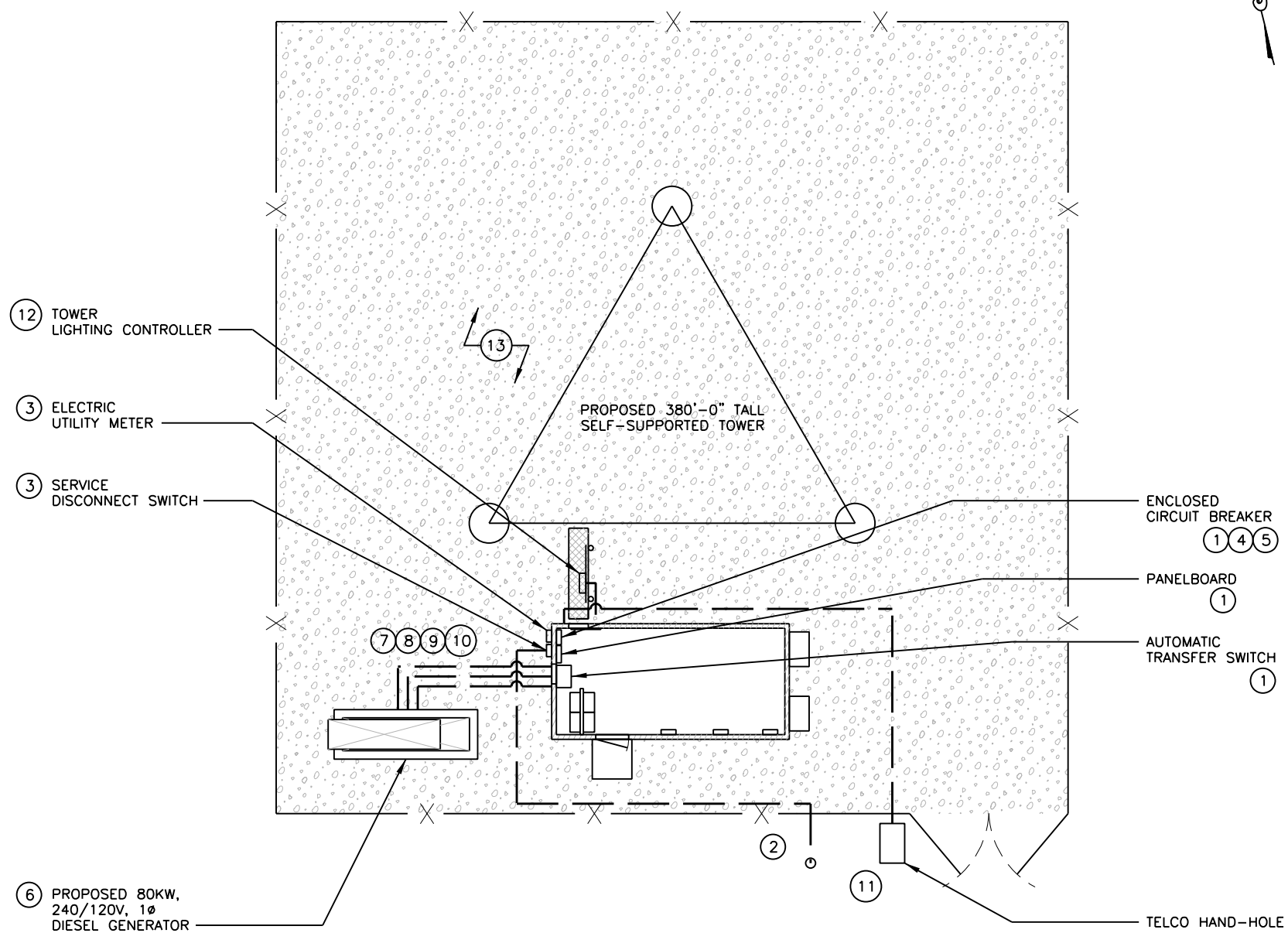
**CONSTRUCTION DETAILS**

**D-4**

SEAL:

# FLAG NOTES FOR DETAIL 1/E-1

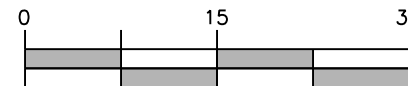
- ① REFER TO SHELTER DRAWINGS FOR ELECTRICAL/TELCO DISTRIBUTION EQUIPMENT PROVIDED WITH EQUIPMENT SHELTER.
- ② FURNISH AND INSTALL (1) 3" SCHEDULE 40 PVC CONDUIT WITH (2) NYLON PULL-STRINGS MINIMUM 30" BELOW FINISHED GRADE OR AS REQUIRED BY UTILITY COMPANY (WHICHEVER IS GREATER) BETWEEN PROPOSED UTILITY SERVICE "MEET-ME" POINT AND PROPOSED UTILITY METER MOUNTED ON PROPOSED UTILITY H-FRAME. FIELD VERIFY AND COORDINATE EXACT LOCATION OF PROPOSED UTILITY H-FRAME. FIELD VERIFY AND COORDINATE EXACT LOCATION OF SERVICE "MEET-ME" POINT.
- ③ PROPOSED UTILITY METER AND SERVICE DISCONNECT AS REQUIRED BY LOCAL POWER UTILITY PROVIDER. ENCLOSURE AND SOCKET, AND METER TO BE PROVIDED BY LOCAL POWER UTILITY AND INSTALLED BY CONTRACTOR ON EXTERIOR WALL OF PROPOSED EQUIPMENT SHELTER. CONTRACTOR SHALL FIELD VERIFY, COORDINATE, PROVIDE AND INSTALL PROPOSED UTILITY EQUIPMENT.
- ④ FURNISH AND INSTALL (3) #350 MCM + (1) #4 GROUND IN 3" SCHEDULE 40 PVC CONDUIT BETWEEN PROPOSED DISCONNECT MOUNTED ON EXTERIOR OF PROPOSED EQUIPMENT SHELTER AND RATED ENCLOSED CIRCUIT BREAKER. FIELD VERIFY AND COORDINATE EXACT LOCATION OF CONDUIT PENETRATION INTO EQUIPMENT SHELTER.
- ⑤ ENCLOSED CIRCUIT BREAKER (FURNISHED WITH EQUIPMENT SHELTER), 300A, 2 POLE, 240 VOLTS. ENCLOSED CIRCUIT BREAKER SHALL BE RATED FOR MINIMUM 22,000A FAULT CURRENT. DO NOT BOND GROUND AND NEUTRAL.
- ⑥ PROPOSED 80KW, 240/120V, 1Ø, DIESEL GENERATOR WITH WEATHERPROOF HOUSING. COORDINATE 300A M.C.B. OVERCURRENT PROTECTION WITH MANUFACTURER.
- ⑦ FURNISH AND INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT WITH (3) #22 AWG SHIELDED CABLES 24" MIN. BELOW FINISHED GRADE FROM PROPOSED GENERATOR TO PROPOSED ELBOW MOUNTED ON EXTERIOR OF PROPOSED EQUIPMENT SHELTER FOR EXTENSION OF GENERATOR CONTROL / ALARM AND FUEL TANK LEVEL ALARM SIGNAL WIRING. STUB CONDUIT UP 24" ABOVE FINISHED GRADE AT GENERATOR. SEE DETAIL 4/D1 FOR LOCATION OF CONDUIT STUB-UP AT GENERATOR. FIELD VERIFY AND EXTEND (3) #22 AWG SHIELDED CABLES THROUGH EQUIPMENT SHELTER 1" PENETRATION TO AUTOMATIC TRANSFER SWITCH AND ALARM PUNCHDOWN BLOCK. COORDINATE CABLE TYPE, LENGTH AND CONNECTION REQUIREMENTS WITH SHELTER MANUFACTURER'S DRAWINGS, GENERATOR AND TANK MANUFACTURERS' SPECIFICATIONS, AND MOTOROLA CONSTRUCTION MANAGER. COORDINATE PROPOSED 1" PENETRATION WITH SHELTER MANUFACTURER.
- ⑧ FURNISH AND INSTALL (3) #350 MCM + (1) #4 GROUND IN 3" SCHEDULE 40 PVC CONDUIT 24" MIN. BELOW FINISHED GRADE FROM PROPOSED GENERATOR TO PROPOSED GENERATOR TO AUTOMATIC TRANSFER SWITCH IN PROPOSED EQUIPMENT SHELTER VIA PROPOSED EQUIPMENT SHELTER PENETRATION. FIELD VERIFY AND COORDINATE EXACT LOCATION OF EQUIPMENT SHELTER PENETRATION.
- ⑨ FURNISH AND INSTALL (1) 1" SCHEDULE 40 PVC CONDUIT WITH (6) #12 THHN CONDUCTORS 30" BELOW FINISHED GRADE FROM PROPOSED GENERATOR TO PROPOSED EQUIPMENT SHELTER PANELBOARD VIA 1" EQUIPMENT SHELTER PENETRATION FOR EXTENSION OF WATER JACKET AND BATTERY CHARGER CIRCUIT WIRING. COORDINATE THE EXACT QUANTITY / SIZE OF CONDUCTORS WITH GENERATOR SUPPLIER. FIELD VERIFY AND COORDINATE EXACT LOCATION FOR WIRE TERMINATIONS AT GENERATOR.
- ⑩ FURNISH AND INSTALL 12" SQUARE WEATHERPROOF JUNCTION BOX, HOFFMAN #A-12126GSC (OR APPROVED EQUAL), MOUNTED WITH HILTI CONCRETE ANCHORS AS REQUIRED ON THE EXTERIOR OF THE SHELTER OVER THE 1" CONDUIT PENETRATION (FIELD VERIFY AND COORDINATE EXACT LOCATION WITH EQUIPMENT SHELTER) FOR ROUTING OF GENERATOR CONTROL/ALARM AND FUEL TANK LEVEL ALARM WIRING INTO THE AUTOMATIC TRANSFER SWITCH.
- ⑪ FURNISH AND INSTALL (1) 4" SCHEDULE 40 PVC CONDUIT WITH (2) NYLON PULL-STRINGS MINIMUM 30" BELOW FINISHED GRADE OR AS REQUIRED BY TELCO PROVIDER (WHICHEVER IS GREATER) BETWEEN PROPOSED TELCO SERVICE "MEET-ME" POINT AND PROPOSED TELCO SERVICE STUB-UP LOCATION ADJACENT TO PROPOSED SHELTER TELCO PENETRATION. FIELD VERIFY AND COORDINATE EXACT LOCATION OF TELCO SERVICE "MEET-ME" POINT. FIELD VERIFY AND COORDINATE EXACT LOCATION OF SHELTER PENETRATION. SEAL BOTH ENDS OF CONDUIT WATER-TIGHT.
- ⑫ PROPOSED TOWER LIGHTING CONTROL MODULES MOUNTED UNDER PROPOSED ICE BRIDGE. FIELD VERIFY MOUNTING LOCATION. CONTRACTOR SHALL FURNISH AND INSTALL ALL HARDWARE REQUIRED TO MOUNT TOWER LIGHTING CONTROL MODULES, AS WELL AS ALL HARDWARE AND CONDUITS REQUIRED TO ROUTE POWER AND ALARM WIRING FROM MODULES TO PROPOSED SHELTER PENETRATIONS. CONTRACTOR SHALL MOUNT AND WIRE PER MANUFACTURER'S RECOMMENDATIONS, MOTOROLA R-56 STANDARDS, AND NATIONAL ELECTRICAL CODE.
- ⑬ ANY DEVIATIONS FROM THE WIRING/CONDUIT WORK SHOWN DUE TO A PARTICULAR MANUFACTURER'S REQUIREMENTS SHALL BE MADE AT NO COST TO MOTOROLA.



## GENERAL NOTES:

1. REFER TO SHELTER MANUFACTURER'S INSTALLATION MANUAL AND DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE CONDUIT REDUCING FITTINGS AS REQUIRED TO TRANSITION CONDUITS INTO SHELTER PENETRATIONS.
3. THE CONTRACTOR SHALL COORDINATE PROPOSED TOWER LIGHTING WITH MOTOROLA ON-SITE COORDINATOR.
4. TRANSFORMER, TELCO DEMARCATION, AND UTILITIES SHOWN FOR CLARITY. ACTUAL UTILITY ROUTING TO BE COORDINATED BY THE CONTRACTOR.
5. SEE SERVICE ONE-LINE DIAGRAM FOR CONDUIT AND WIRE SIZES.

1 ELECTRICAL PLAN  
E-1 11x17 SCALE: 1" = 15'-0"  
24x36 SCALE: 1" = 7'-6"



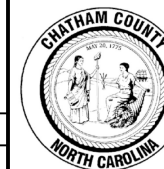
03/10/2022

NO.	DATE	REVISION
--	11/03/2021	SITE SKETCH
--	11/11/2021	SITE SKETCH
A	01/06/2022	ZONING DRAWINGS
B	01/11/2022	ZONING DRAWINGS
C	03/07/2022	CONSTRUCTION DRAWINGS

**KCI**  
ASSOCIATES OF NC  
4505 FALLS OF NEUSE RD.,  
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RALEIGH, NORTH CAROLINA 27609  
(919) 783-9214  
ENGINEERS • PLANNERS • ECOLOGISTS

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ELECTRICAL  
PLAN & NOTES

E-1

SEAL: