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PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INSTALLING A NEW UNMANNED SHELTER ON A NEW CONCRETE PAD AT GRADE.

PROJECT INFORMATION

APPLICANT ADDRESS: BECHTEL ASSOCIATES PROFESSIONAL CORPORATION
100 PERIMETER PARK, SUITE H
MORRISVILLE, NC 27560

PROJECT MANAGER: BETTY CHANG

ENGINEERING CONTACT: PAUL KOSKI

PERMITTING CONTACT: STEVE GRAHAM

JURISDICTION: DURHAM COUNTY, NC

LATITUDE: N 35.945664 (WGS84)

LONGITUDE: W 78.837318 (WGS84)

Fiber Project

ZONING DRAWINGS

SITE NAME: ANGIER

FIBER LAS ID NO.: RDU-122

FIBER HUT FACILITY DEPLOYMENT PROJECT

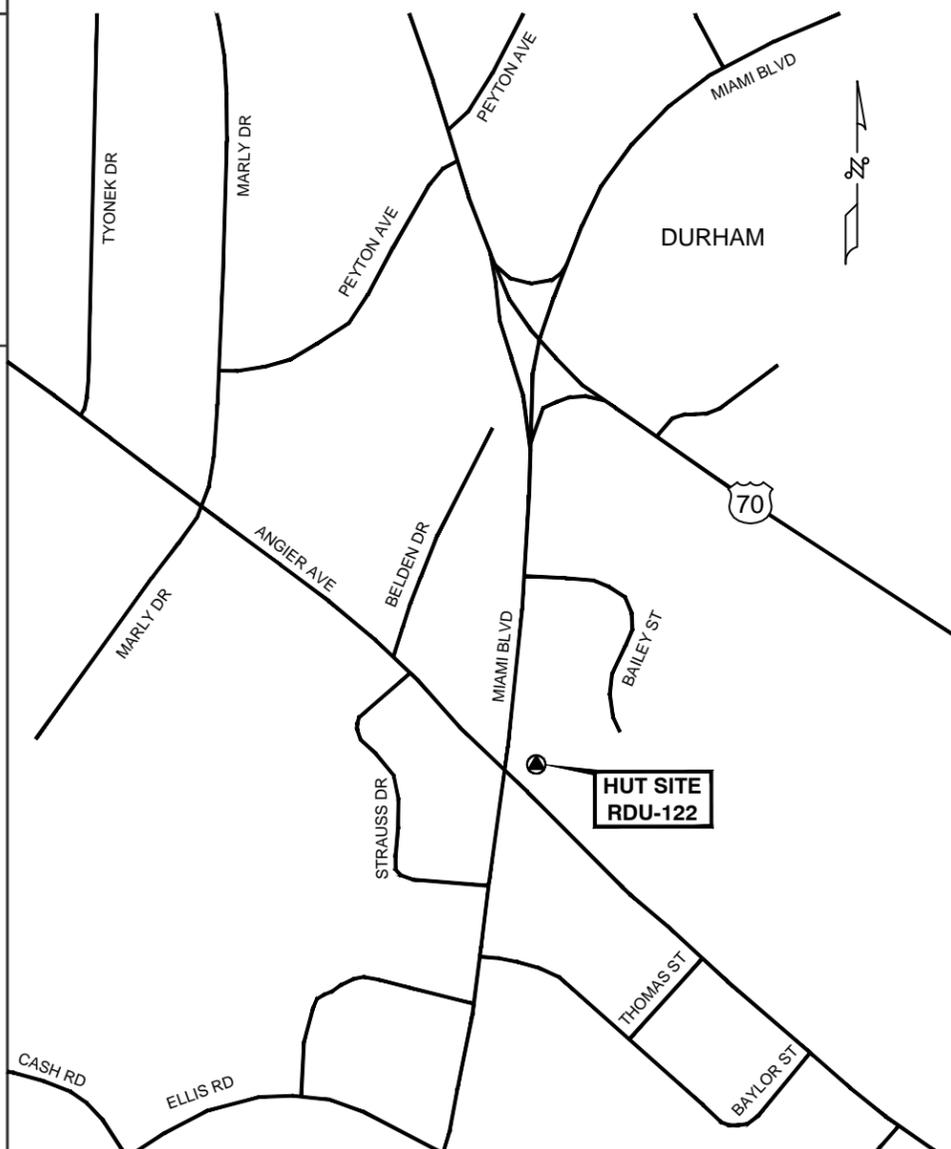
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VICINITY MAP

DIRECTION: FROM BECHTEL OFFICE LOCATED AT 100 PERIMETER PARK DR, MORRISVILLE, NC 27560 DEPART PERIMETER PARK DR TOWARD AIRPORT BLVD. TURN RIGHT ONTO AIRPORT BLVD. TURN LEFT TO MERGE ONTO I-40 WEST. TAKE EXIT 281 FOR MIAMI BLVD. TURN RIGHT ONTO SOUTH MIAMI BLVD. TURN RIGHT ONTO ANGIER AVE AND ARRIVE AT HUT LOCATION RDU-122 ON LEFT 240' FROM INTERSECTION.



APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
[INTERNATIONAL BUILDING CODE] IBC & IRC [STATE BUILDING CODE] - CURRENT VERSION

ELECTRICAL CODE:
[NATIONAL ELECTRICAL CODE] NEC NFPA 70
[FIRE/LIFE SAFETY CODE] NFPA-101 LIFE SAFETY CODE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION ANSI-J-STD-607-A,
COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
NECA/BICSI-607, TELECOMMUNICATIONS BONDING AND GROUNDING PLANNING AND INSTALLATION METHODS FOR COMMERCIAL BUILDINGS
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
IEEE 1100 RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST VERSION

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

DURHAM CITY-COUNTY APPROVAL STAMP

LEVEL 2 SITE PLAN: D1500089

PROVIDE TWO (2) SETS OF APPROVED SITE PLAN DOCUMENTS TO ENGINEERING INSPECTIONS, 3RD FLOOR, 101 CITY HALL PLAZA, DURHAM, NC 27701 AT LEAST 5 DAYS PRIOR TO BEGINNING CONSTRUCTION AND CONTACT ENGINEERING INSPECTIONS AT 560-4326 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
CASE #: D1500089

GENERATOR NOTE: PROPOSED PROJECT CONTAINS A CUMMINS GGHG 85 KW GENERATOR. GENERATOR WILL HAVE A NATURAL GAS CONNECTION AND NO FUEL STORAGE TANKS ARE PROPOSED. GENERATOR WILL BE APPROXIMATELY 3' FROM THE PROPOSED BUILDING.

SITE DATA TABLE

PIN	074902892173
ZONING	RS-20, CG & CN
WATERSHED	LICK CREEK
OVERLAY DISTRICT	NONE
RIVER BASIN	NEUSE RIVER BASIN
CURRENT USE	ELEVATED WATER TANK
PROPOSED USE	ELEVATED WATER TANK & FIBER OPTIC ENCLOSURE
CURRENT IMPERVIOUS	0.42 AC.
PROPOSED IMPERVIOUS	0.46 AC.
TOTAL DISTURBED AREA	0.11 AC.
PARKING DATA	NO SPACES REQUIRED (UNINHABITED BUILDING), 1 SPACE PROVIDED (IN DRIVEWAY)
BICYCLE PARKING DATA	2 SPACES REQUIRED, 0 SPACES PROVIDED (PER WATER MANAGEMENT)
BUILDING SQUARE FOOTAGE	360 SF
TREE COVERAGE	MET PER PREVIOUSLY APPROVED SITE PLAN D1000193



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FAX: 919.881.9923
NC LICENSE No.: F-0929



**BECHTEL ASSOCIATES
PROFESSIONAL CORPORATION**
5275 WESTVIEW DRIVE
FREDERICK, MD. 21703
PHONE: (301) 228-6000

FIBER HUT ID #: RDU122
4105 ANGIER AVE.
DURHAM, NC 27703

Fiber Project

3	06-16-15	REVISED COMPOUND SIZE	JJB	LWM		
2	05-21-15	REVISED PER COMMENTS	JJB	LWM		
1	05-14-15	REVISED PER COMMENTS	JJB	LWM		
0	04-13-15	ISSUED FOR COMMENT	JJB	LWM		
NO.	DATE	REVISIONS	BY	CHK	SUPV	APP'D
SCALE: NTS		DESIGNED BY: JJB	DRAWN BY: DJL			



Fiber Project

TITLE SHEET

DRAWING NUMBER		REV
25927-210	H0122-00000-ZN-70001	3

