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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 DRIVE, SUITE H  
MORRISVILLE, NC 27560

PROJECT MANAGER: BETTY CHANG

ENGINEERING CONTACT: PAUL KOSKI

PERMITTING CONTACT: STEVE GRAHAM

JURISDICTION: DURHAM COUNTY, NC

LATITUDE: N 36.031067 (WGS84)

LONGITUDE: W 78.905181 (WGS84)

ASSIGNED ADDRESS: 701 STADIUM DRIVE, DURHAM, NC 27704

# Fiber Project

## SITE PLAN

### SITE NAME: ROCK QUARRY PARK

### FIBER LAS ID NO.: RDU-125

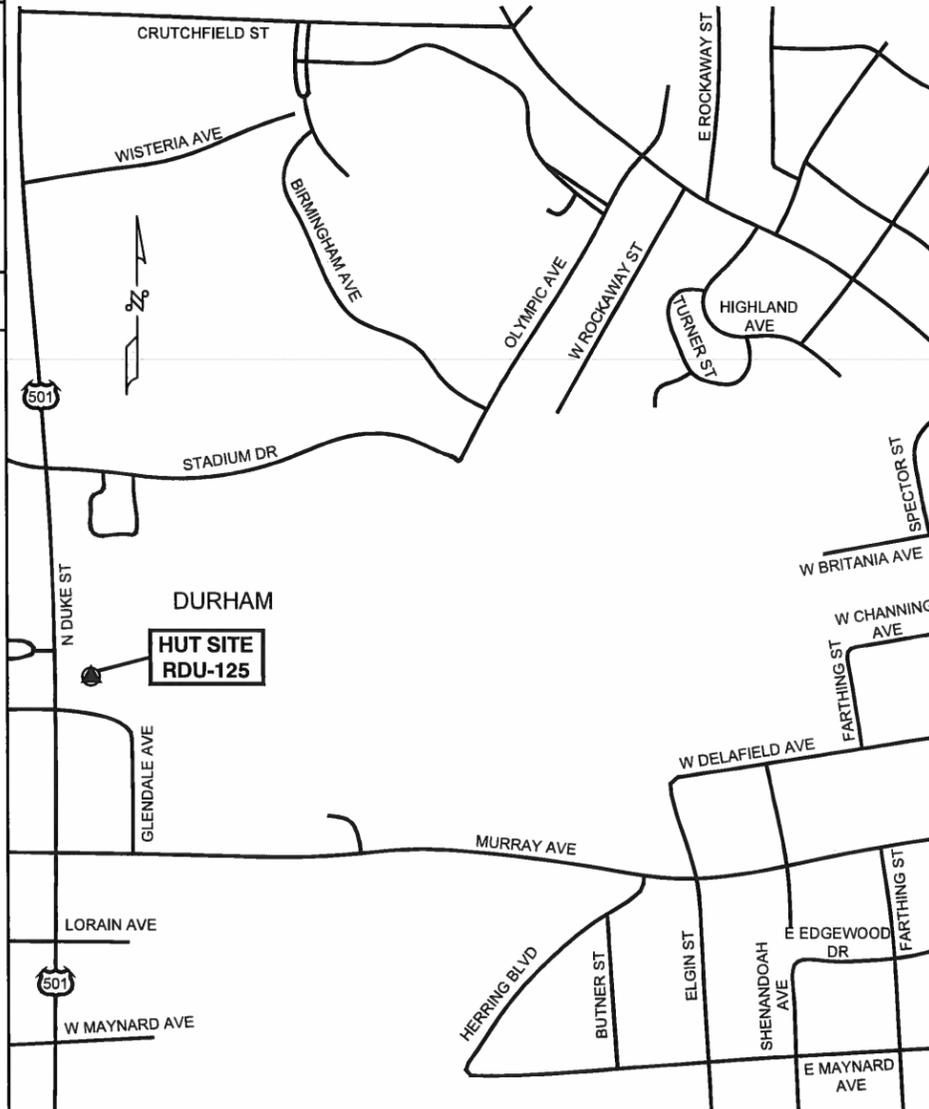
### FIBER HUT FACILITY DEPLOYMENT PROJECT

**DRAWING INDEX**

DRAWING NO.	SHT. NO.	DESCRIPTION	REV
H0125-00000-ZN-70001	01	TITLE SHEET	0
H0125-00000-ZN-70001	02	OVERALL PROPERTY BOUNDARY	0
H0125-00000-ZN-70001	03	EXISTING CONDITIONS	0
H0125-00000-ZN-70001	04	SITE & UTILITY PLAN	0
H0125-00000-ZN-70001	05	GRADING & EROSION CONTROL PLAN	0
H0125-00000-ZN-70001	06	LANDSCAPE PLAN	0
H0125-00000-ZN-70001	07	ELEVATION	0
H0125-00000-ZN-70001	08	SITE DETAILS	0
H0125-00000-ZN-70001	09	SITE DETAILS	0

**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 AND MERGE ONTO I-40 WEST. TAKE EXIT 279B AND MERGE ONTO NC-147 NORTH. EXIT AND MERGE ONTO DUKE ST AND ARRIVE AT HUT LOCATION RDU-125 ON RIGHT APPROXIMATELY 0.6 MILES 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-807-A,  
COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS  
NECA/IBCSI-807, TELECOMMUNICATIONS BONDING AND GROUNDING PLANNING AND INSTALLATION METHODS FOR COMMERCIAL BUILDINGS  
TIA 807, 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.

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.

**GENERAL CONDITIONS OF APPROVAL**

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 #:

\*FOR UTILITY SHELTER DESIGN, SEE PLANS BY THEMOBOND BUILDINGS, PROJECT NUMBER 1501-10-4 RDU125, DATED XX-XX-2015

**SITE DATA TABLE**

PIN	082320808458
ZONING	RS-B
PARCEL ACREAGE	15.91 ACRES (AS SURVEYED)
WATERSHED	ELLERBE CREEK
OVERLAY DISTRICT	F/J-B
RIVER BASIN	NEUSE RIVER BASIN
CURRENT USE	WILD/PARKS & REC (CITY)
PROPOSED USE	WILD/PARKS & REC (CITY) & LANDSCAPED UTILITY ENCLOSURE
CURRENT IMPERVIOUS	0.59 AC. (3.7% IMPERVIOUSNESS)
PROPOSED IMPERVIOUS	0.85 AC. (4.1% IMPERVIOUSNESS)
TOTAL DISTURBED AREA	0.17 AC.
PARKING DATA	0 SPACES REQUIRED (UNINHABITED BUILDING), 0 SPACES PROVIDED
BICYCLE PARKING DATA	0 SPACES REQUIRED, 0 SPACES PROVIDED
BUILDING SQUARE FOOTAGE	360 SF
TREE COVERAGE	TREE COVERAGE PROVIDED TO MEET CITY OF DURHAM UNIFIED DEVELOPMENT ORDINANCE. SEE LANDSCAPE PLAN.

**Dewberry** Engineers Inc.  
2301 REXWOODS DRIVE  
SUITE 200  
RALEIGH, NC 27607  
PHONE: 919.881.9939  
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 #: RDU125**  
701 STADIUM DR  
DURHAM, NC 27704

**Fiber Project**

NO.	DATE	REVISIONS	BY	CHK	SUPV	APP'D
0	09-22-15	SUBMITTAL TO CITY	JJB	LWM	LWM	LWM

SCALE: AS SHOWN    DESIGNED BY: JJB    DRAWN BY: DIL



Fiber Project

**TITLE SHEET**

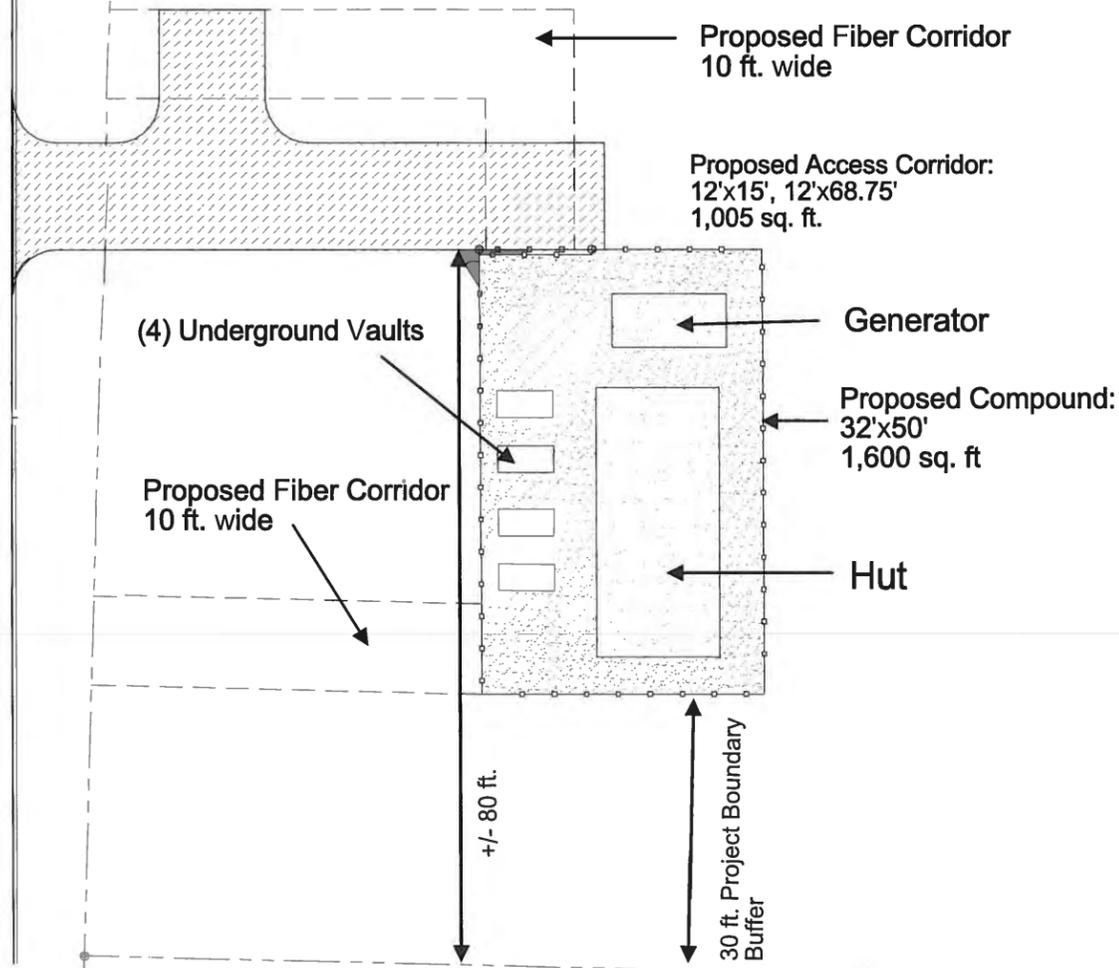
DRAWING NUMBER	SHEET NO.	REV
25927-210	H0125-00000-ZN-70001	01 0



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DUKE ST.  
PUBLIC R/W



SITE DATA TABLE

PIN	082320808458
ZONING	RS-8
PARCEL ACREAGE	15.91 ACRES (AS SURVEYED)
WATERSHED	ELLERBE CREEK
OVERLAY DISTRICT	F/J-8
RIVER BASIN	NEUSE RIVER BASIN
CURRENT USE	WILD/PARKS & REC (CITY)
PROPOSED USE	WILD/PARKS & REC (CITY) & LANDSCAPED UTILITY ENCLOSURE
CURRENT IMPERVIOUS	0.59 AC. (3.7% IMPERVIOUSNESS)
PROPOSED IMPERVIOUS	0.65 AC. (4.1% IMPERVIOUSNESS)
TOTAL DISTURBED AREA	0.17 AC.
PARKING DATA	NO SPACES REQUIRED (UNINHABITED BUILDING).
BUILDING SQUARE FOOTAGE	360 SF
PROPERTY SETBACKS	25' STREET YARD 10' SIDE YARD



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

**FIBER HUT ID #: RDU125**  
701 STADIUM DR  
DURHAM, NC 27704

## Fiber Project

**Hut Compound: 1,600 sq. ft**  
**Access Corridor: 1,005 sq. ft**  
**Total: 2,605 sq. ft.**

6

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4

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