EXHIBIT C - Page 1 of 3 Pages

Fiber Project

SITE PLAN

SITE NAME: 1800 MOREHEAD AVE

FIBER LAS ID NO.: RDU-126

FIBER HUT FACILITY DEPLOYMENT PROJECT

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:	DAVID PHELPS
JURISDICTION:	DURHAM COUNTY, NC
LATITUDE:	N 35.996275 (WGS84)
LONGITUDE:	W 78.923706 (WGS84)
ASSIGNED ADDRESS:	1800 MOREHEAD AVENUE, DURHAM, NC 27707

DRAWING INDEX

DRAWING NO.	SHT. NO.	DESCRIPTION	REV
H0126-00000-ZN-70001	01	TITLE SHEET	A
H0126-00000-ZN-70001	02	OVERALL PROPERTY BOUNDARY	A
H0126-00000-ZN-70001	03	EXISTING CONDITIONS / DEMOLITION PLAN	A
H0126-00000-ZN-70001	04	SITE & UTILITY PLAN	A
H0126-00000-ZN-70001	05	GRADING & EROSION CONTROL PLAN	A
H0126-00000-ZN-70001	06A	OVERALL BUFFER PLAN	A
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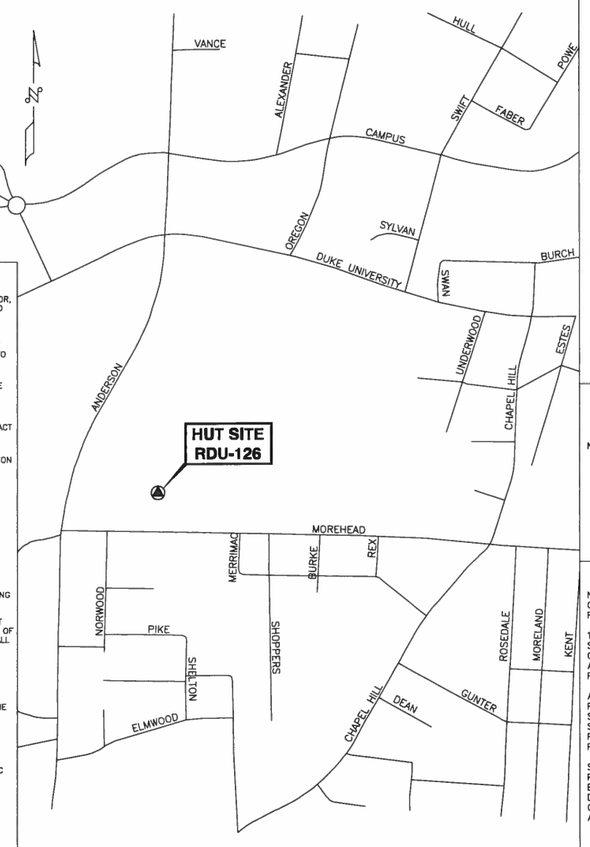
H0126-00000-ZN-70001	09	DETAILS	A

VICINITY MAP

DIRECTIONS: 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 279B FOR NC 147 NORTH. TAKE EXIT 13 FOR CHAPEL HILL STREET. TURN RIGHT ONTO WEST CHAPEL HILL STREET. IN 0.6 MILES, TURN LEFT ONTO CHAPEL HILL ROAD. IN 0.3 MILES, TURN RIGHT ONTO MOREHEAD AVENUE. THE HUT LOCATION IS APPROXIMATELY 0.5 MILES ON THE RIGHT.



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.

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	0821-06-16-4951
ZONING	RS-10
WATERSHED	NONE
OVERLAY DISTRICT	NONE
RIVER BASIN	CAPE FEAR
CURRENT USE	COMMUNITY SERVICE/CEMETERY
PROPOSED USE	COMMUNITY SERVICE/CEMETERY & LANDSCAPED UTILITY ENCLOSURE
PARCEL ACREAGE	96.60 AC.
EXISTING IMPERVIOUS AREA	10.00 AC. / 435,600 S.F. (10.35% IMPERVIOUSNESS)
PROPOSED IMPERVIOUS AREA	10.07 AC. / 438,649 S.F. (10.42% IMPERVIOUSNESS)
NET CHANGE IN IMPERVIOUS AREA	0.07 AC. / 3,049 S.F.
TOTAL DISTURBED AREA	0.18 AC. / 7,768 S.F.
PARKING DATA	0 SPACES REQUIRED (UNINHABITED BUILDING), 0 SPACES PROVIDED
BICYCLE PARKING DATA	0 SPACES REQUIRED, 0 SPACES PROVIDED
BUILDING SQUARE FOOTAGE	360 SF

GENERAL CONDITIONS OF APPROVAL

1. 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.
2. OWNER/DEVELOPER SHALL NOTIFY THE DURHAM CITY-COUNTY PLANNING DEPARTMENT SITE COMPLIANCE STAFF AT THE COMPLETION OF CONSTRUCTION AND LANDSCAPING TO REQUEST AN INSPECTION PRIOR TO USE OF THE FACILITY.
3. PINE STRAW SHALL NOT BE USED AS MULCH OR GROUND COVER WITHIN TEN FEET OF ANY STRUCTURE CONSISTING OF EXTERIOR COMBUSTIBLE CONSTRUCTION AS SPECIFIED BY DURHAM CITY CODE SECTION 46-87.
4. ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF COMPLIANCE. CONTACT DURHAM CITY-COUTY PLANNING DEPARTMENT SITE COMPLIANCE STAFF FOR INSPECTION
5. EACH LANDSCAPING COMPLIANCE INSPECTION AFTER THE INITIAL INSPECTION WILL INCUR A RE-INSPECTION FEE. PAYMENT MUST BE RECEIVED BY THE DURHAM CITY-COUNTY PLANNING DEPARTMENT PRIOR TO RE-INSPECTION.
6. TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE, OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESSPASSING/TREE PROTECTION AREAS/PROHIBIDO ENTRAR/ZONA PROTECTORA PARA LOS ARBOLES."
7. ROOT PROTECTION ZONE EQUALS ONE FOOT OF RADIUS, WHICHEVER IS GREATER. NO DISTURBANCE ALLOWED WITHIN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARING SIGNS.
8. AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN SHARP VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA PRIOR TO OR AT THE SAME TIME AS SILT FENCE AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREE IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
9. COUNTY SOIL AND EROSION CONTROL:
   - A. IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL_BORROW SITE ALREADY HAS A LAND-DISTURBANCE PERMIT.
   - B. A TREE PROTECTION INSPECTION IS REQUIRED PRIOR TO ISSUANCE OF EROSION CONTROL PERMIT
   - C. IF MORE THAN 5 ACRES IS DISTURBED, A SURETY WILL BE REQUIRED.
9. A CITY OF DURHAM DRIVEWAY PERMIT IS REQUIRED PRIOR TO ANY DRIVEWAY CONSTRUCTION ON PUBLIC RIGHT-OF-WAY. SUBMIT PLANS FOR DRIVEWAY PERMIT APPROVAL TO THE CITY ENGINEERING DEVELOPMENT REVIEW. AFTER OBTAINING THE PERMIT, PLEASE CALL CITY OF DURHAM ENGINEERING INSPECTION OFFICE AT 560-4326 PRIOR TO START OF CONSTRUCTION.

PUBLIC WORKS CONDITIONS OF APPROVAL

N/A.

CITY OF DURHAM PLANNING APPROVAL - CASE# TBD

SPECIAL CONDITIONS OF APPROVAL

NCDOT DRIVEWAY PERMIT REQUIRED PRIOR TO CONSTRUCTION. CONTACT NCDOT AT 919-220-4750 FOR REQUIREMENTS.

100 FOOT WIDE UNDISTURBED STREAM BUFFER EACH SIDE OF STREAM, MEASURED FROM TOP OF BANK. NO CLEARING OR GRADING OTHER THAN SELECTIVE THINNING AND ORDINARY MAINTENANCE OF EXISTING VEGETATION PERMITTED.

ALL DEVELOPMENT WITHIN THE FLOODWAY AND FLOODWAY FRINGE, INCLUDING FILL, NEW CONSTRUCTION, SUBSTANTIAL IMPROVEMENTS, MANUFACTURED HOUSING, STORAGE OF MATERIALS AND STORAGE OF TOXIC OR FLAMMABLE SUBSTANCES, IS PROHIBITED EXCEPT AS PROVIDED BY APPLICABLE FLOOD HAZARD REGULATIONS.

STATE AND FEDERAL PERMIT AUTHORIZATION MAY BE REQUIRED FROM THE DEHNR AND THE U.S. CORPS OF ENGINEERS PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES IN OR NEAR A LAKE, STREAM, CREEK, TRIBUTARY OR ANY UNNAMED BODY OF WATER AND ITS ADJACENT WETLANDS.

Dewberry

Dewberry Engineers Inc.
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.2939
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 #: RDU126
1800 MOREHEAD AVENUE
DURHAM, NC 27707

Fiber Project

NO.	DATE	REVISIONS	BY	CHK	SUPV	APP'D
A	02-04-16	ISSUED FOR REVIEW	JRD	SRN		

SCALE: AS SHOWN | DESIGNED BY: JRD | DRAWN BY: JRD

PRELIMINARY NOT FOR CONSTRUCTION

Fiber Project

TITLE SHEET

DRAWING NUMBER	SHEET NO.	REV
H0126-00000-ZN-70001	01	A

25927-210

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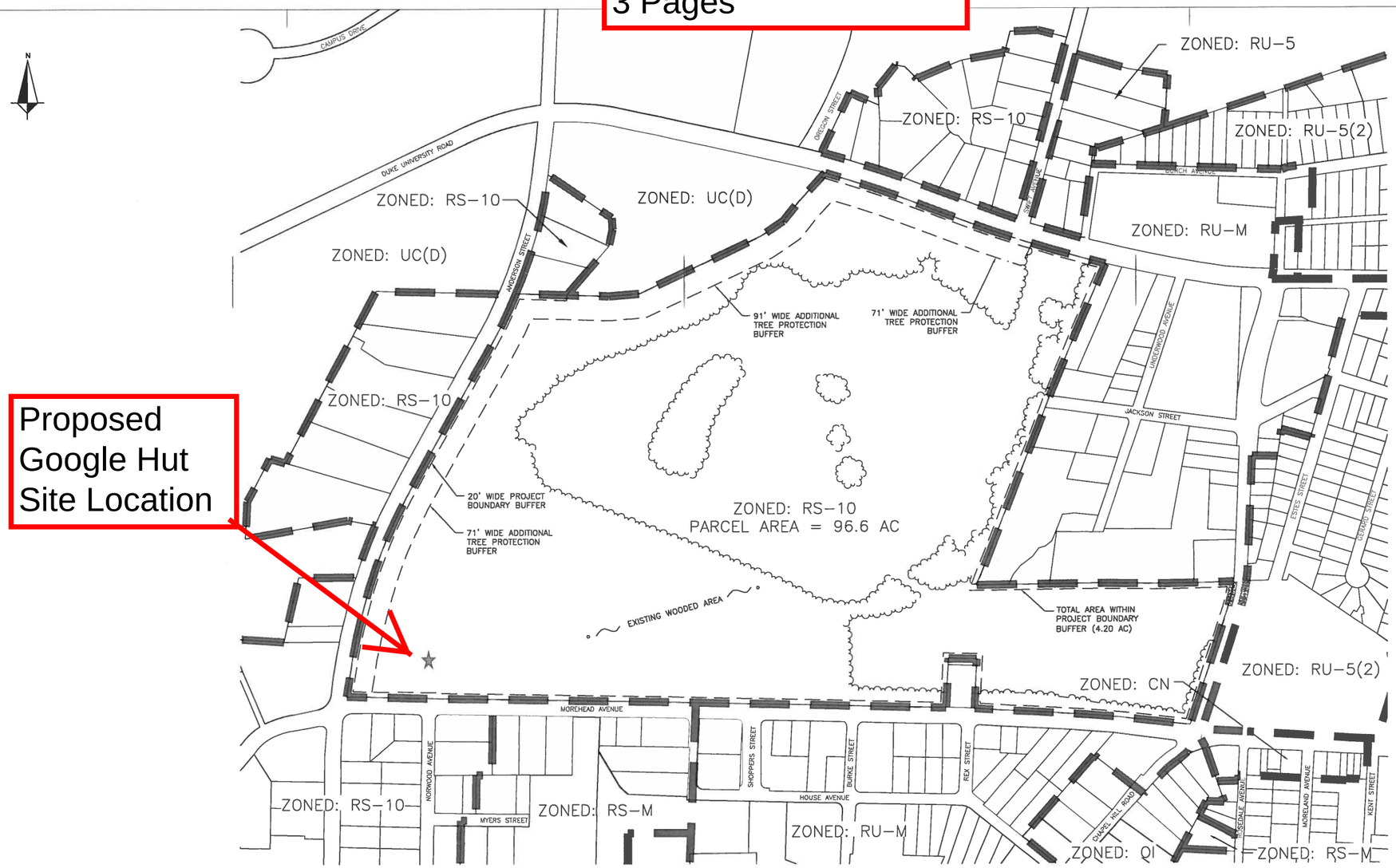

Proposed Google Hut Site Location

TREE COVERAGE REQUIRED:	
AREA	PERCENTAGE
9.66 AC.	10%
TREE COVERAGE PROVIDED:	
WITHIN PROJECT BOUNDARY BUFFERS:	
AREA	PERCENTAGE
3.34 AC.	3.5%
ADDITONAL TREE PRESERVATION AREA:	
AREA	PERCENTAGE
6.37 AC.	6.6%
TOTAL TREE PRESERVATION AREA:	
AREA	PERCENTAGE
9.71 AC.	10.1%
DEVELOPMENT TIER:	
URBAN	

NOTE:
1. SUBJECT PROPERTY RESIDES IN FEMA MAP 3720082100K PANEL 0821 AND IS LOCATED OUTSIDE OF THE FLOOD HAZARD AREA (SEE OVERALL PROPERTY BOUNDARY PLAN).

LEGEND
- SUBJECT PROPERTY LINE
- PROPERTY LINE
- ZONING LINE

811 Know what's below. Call before you dig.

FULL SCALE 1"=200'-0"
400 0 200 400 FT
HALF SCALE 1"=400'-0"

Dewberry
Dewberry Engineers Inc.
2610 WYCLIFF ROAD
SUITE 410
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
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1800 MOREHEAD AVENUE
DURHAM, NC 27707

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A	02-04-16	ISSUED FOR REVIEW	JRD	SRN		

SCALE: AS SHOWN DESIGNED BY: JRD DRAWN BY: JRD

PRELIMINARY NOT FOR CONSTRUCTION

Fiber Project

OVERALL BUFFER PLAN

DRAWING NUMBER	SHEET NO.	REV
H0126-00000-ZN-70001	06A	A

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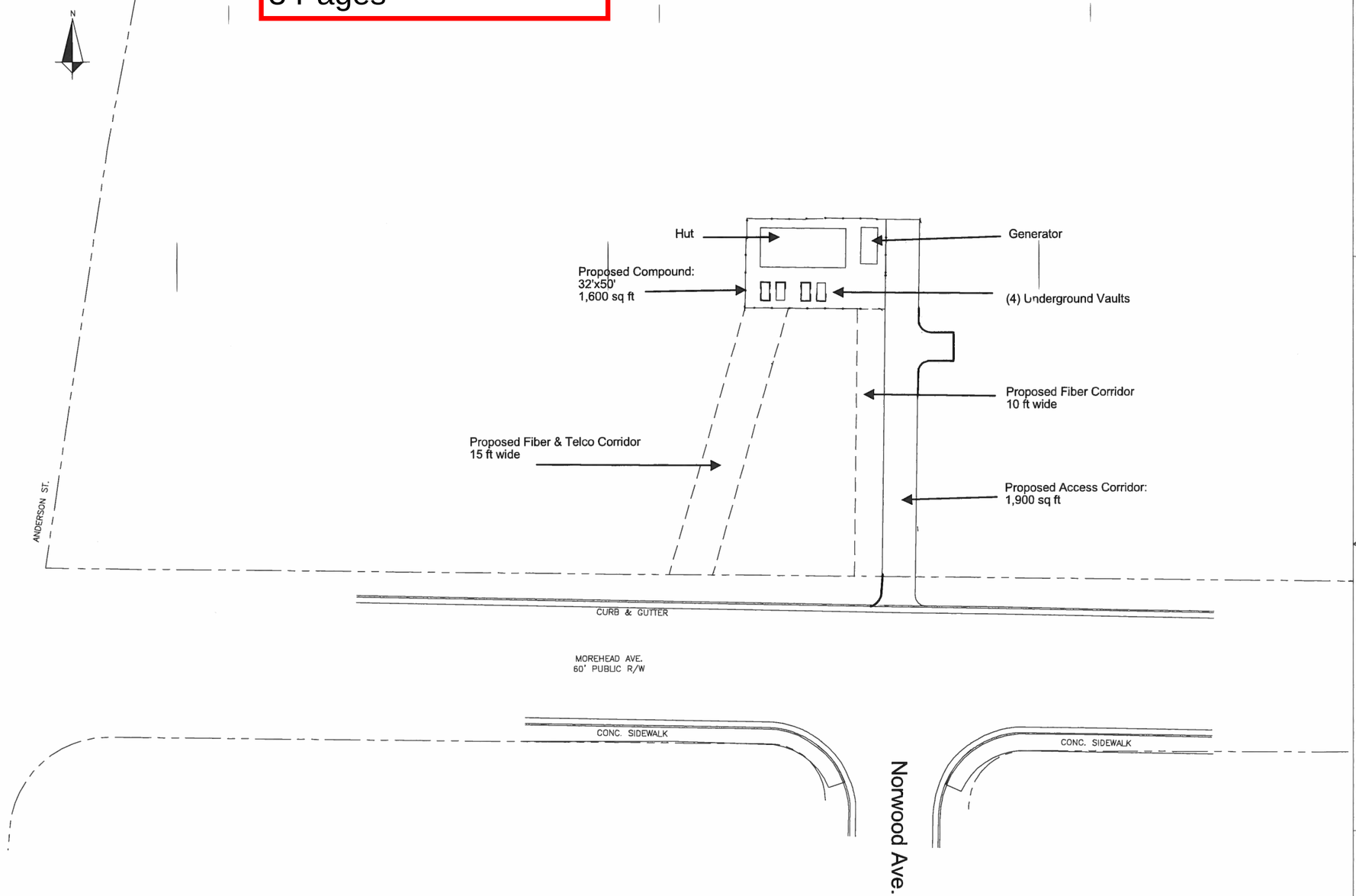

ZONING TABLE

PROPERTY OWNER	CITY OF DURHAM
ACREAGE	96.6 AC
COUNTY ID NUMBER	PIN: 0821-06-16-4951
SETBACKS	FRONT: 25' SIDE: 10' REAR: 25'
ZONING	RESIDENTIAL SUBURBAN – 10 (RS-10)
CURRENT USE	CEMET RY
PROPOSED USE	CEMET RY & UTILITY ENCLOSURE
PROPOSED BUILDING SQUARE FOOTAGE	360 SF
NUMBER OF PARKING SPACES	0 REQUIRED 0 PROVIDED
NUMBER OF BIKE SPACES	0 REQUIRED 0 PROVIDED

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Fiber Project

Hut Compound: 1,600 sq ft

Access Corridor: 1,900 sq ft

Total: 3,500 sq ft

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