

City of Raleigh



This document is a graphic representation only,
created from the best available sources.
The City of Raleigh assumes no responsibility for any errors,
or misuse of this document.

090-17-CA

605 N BLOUNT STREET
BLOUNT STREET HISTORIC
DISTRICT (GENERAL)

0 25 50 100 Feet



Nature of Project:
Installation of small cell utility
pole with antenna at
overall height of 50 feet

APPLICANT:
MICHAEL HICKS, MOBILITIE, LLC

APPLICATION FOR A CERTIFICATE OF APPROPRIATENESS – STAFF REPORT

090-17-CA 605 N BLOUNT STREET

Applicant: MOBILITIE, LLC

Received: 5/10/2017

Submission date + 90 days: 8/8/2017

Meeting Date(s):

1) 6/22/2017 2) 3)

INTRODUCTION TO THE APPLICATION

Historic District: BLOUNT STREET HISTORIC DISTRICT

Zoning: HOD-G

Nature of Project: Installation of small cell utility pole with antenna at overall height of 50 feet

APPLICABLE SECTIONS OF GUIDELINES and DESCRIPTION OF PROJECT

<u>Sections</u>	<u>Topic</u>	<u>Description of Work</u>
1.1	Public Rights-of-Way and Alleys	Installation of small cell utility pole with antenna at overall height of 50 feet

STAFF REPORT

Based on the information contained in the application and staff's evaluation:

- A. Installation of small cell utility pole is not incongruous in concept according to *Guidelines* 1.1.2, 1.1.2; however installation of a small cell utility pole with an antenna at an overall height of 50 feet **may be** incongruous according to *Guidelines* 1.1.10 and the following suggested facts:
- 1* The proposal is for a 47-foot tall wood pole with a 3-foot antenna on top bringing the total height to 50 feet. Equipment will be mounted at various heights on the pole starting at 6 feet above the ground.
 - 2* The applicant states that the three wood poles nearest to the proposed pole are approximately 40ft with ancillary electrical equipment protruding approximately 2ft above pole height.
 - 3* The pole is proposed to be located in the grass right-of-way near an unused entry drive off of Blount Street adjacent to a William Peace University parking lot. A photographic simulation of the proposal is included in the application.
 - 4* The location of the proposed pole is incorrect on the location maps page of the application packet.

- 5* On the planning page (p. 18) of Public Rights-of-Way and Alleys section of the *Guidelines* it states that “Public right-of-way features such as trees, streetlights, benches, ground cover, sidewalk paving patterns, curbs, and gutters contribute to a district’s character, as do necessary transportation and communication features, such as utility lines and poles, transformers, traffic signs, vending machines, transit stops, and parking booths. Consequently, maintaining the distinctive visual ambiance of a district requires attention to its streets and alleys and their features. Right-of-way characteristics vary from district to district; some vary within districts.”
- 6* The commission recently approved a 37’ tall new wood pole with antenna and equipment at the southern end of the Blount Street (COA 073-17-CA) This pole was within 3 feet in height of the nearby poles.

Pending the committee’s determination decision regarding the height of the pole with antenna, staff suggests that the committee approve the application with the following condition:

1. That the new pole and antenna be no more than 3’ taller than wood poles within a half block of the proposed pole.
2. That the revised pole height and associated equipment be provided to and approved by staff prior to the issuance of the blue placard.

•

Raleigh Historic Development Commission – Certificate of Appropriateness (COA) Application



**DEVELOPMENT
SERVICES
DEPARTMENT**

Development Services
Customer Service Center
One Exchange Plaza
1 Exchange Plaza, Suite 400
Raleigh, North Carolina 27601
Phone 919-996-2495
eFax 919-996-1831



- ☐ Minor Work (staff review) – 1 copy
- ☒ Major Work (COA Committee review) – 10 copies
- ☐ Additions Greater than 25% of Building Square Footage
- ☐ New Buildings
- ☐ Demo of Contributing Historic Resource
- ☒ All Other
- ☐ Post Approval Re-review of Conditions of Approval

For Office Use Only

Transaction # 513950

File # 090-17-CA

Fee \$147

Amount Paid \$147

Received Date 5/10/17

Received By C. May

Property Street Address 605 N. Blount St.

Historic District Blount Street

Historic Property/Landmark name (if applicable) N/A

Owner's Name NCDOT Public ROW of Blount St.

Lot size N/A (width in feet) N/A (depth in feet) N/A

For applications that require review by the COA Committee (Major Work), provide addressed, stamped envelopes to owners of all properties within 100 feet (i.e. both sides, in front (across the street), and behind the property) not including the width of public streets or alleys (Label Creator).

Property Address	Property Address
15 E. Peace St Raleigh, NC 27604	549 N. Blount St. Raleigh, NC 27604
6820 Greystone Dr. Raleigh, NC 27615	540 N. Blount St. Raleigh, NC 27604
549 N. Blount St. Raleigh, NC 27604	612 N. Blount St. Raleigh, NC 27604
1123 Old Lystra Rd. Chapel Hill, NC 27517	

I understand that all applications that require review by the commission's Certificate of Appropriateness Committee must be submitted by 4:00 p.m. on the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Type or print the following:

Applicant Mobilitie, LLC.

Mailing Address 3475 Piedmont Rd. NE Suite 1000

City Atlanta

State GA

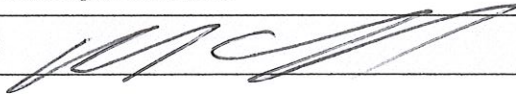
Zip Code 30305

Date 5/9/17

Daytime Phone 919-604-2736

Email Address mhicks@mobilitie.com

Applicant Signature



Will you be applying for rehabilitation tax credits for this project? ☐ Yes ☒ No

Did you consult with staff prior to filing the application? ☒ Yes ☐ No

Office Use Only

Type of Work AM 100

Design Guidelines - Please cite the applicable sections of the design guidelines (www.rhdc.org).

Section/Page	Topic	Brief Description of Work (attach additional sheets as needed)
		Construction of small cell utility pole with antenna at an overall height of 50ft.

Minor Work Approval (office use only)

Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until _____. Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.

Signature (City of Raleigh) _____ Date _____

TO BE COMPLETED BY APPLICANT			TO BE COMPLETED BY CITY STAFF		
	YES	N/A	YES	NO	N/A
Attach 8-1/2" x 11" or 11" x 17" sheets with written descriptions and drawings, photographs, and other graphic information necessary to completely describe the project. Use the checklist below to be sure your application is complete.	X		X		
Minor Work (staff review) – 1 copy					
Major Work (COA Committee review) – 10 copies					
1. Written description. Describe clearly and in detail the nature of your project. Include exact dimensions for materials to be used (e.g. width of siding, window trim, etc.)	<input checked="" type="checkbox"/>		X		
2. Description of materials (Provide samples, if appropriate)	<input checked="" type="checkbox"/>		X		
3. Photographs of existing conditions are required. Minimum image size 4" x 6" as printed. Maximum 2 images per page.	<input checked="" type="checkbox"/>		X		
4. Paint Schedule (if applicable)	<input type="checkbox"/>	<input checked="" type="checkbox"/>			X
5. Plot plan (if applicable). A plot plan showing relationship of buildings, additions, sidewalks, drives, trees, property lines, etc., must be provided if your project includes any addition, demolition, fences/walls, or other landscape work. Show accurate measurements. You may also use a copy of the survey you received when you bought your property. Revise the copy as needed to show existing conditions and your proposed work.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	X		
6. Drawings showing existing and proposed work <ul style="list-style-type: none"> <input type="checkbox"/> Plan drawings <input type="checkbox"/> Elevation drawings showing the façade(s) <input type="checkbox"/> Dimensions shown on drawings and/or graphic scale (required) <input type="checkbox"/> 11" x 17" or 8-1/2" x 11" reductions of full-size drawings. If reduced size is so small as to be illegible, make 11" x 17" or 8-1/2" x 11" snap shots of individual drawings from the big sheet. 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	X		
7. Stamped envelopes addressed to all property owners within 100 feet of property not counting the width of public streets and alleys (required for Major Work). Use the <u>Label Creator</u> to determine the addresses.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	X		
8. Fee (See <u>Development Fee Schedule</u>)	<input checked="" type="checkbox"/>		X		

May 9, 2017

Tania Georgiou Tully
Planner II
PO Box 590
Raleigh, NC 27602

RE: MOBILITIE, LLC'S SMALL CELL UTILITY POLE APPLICATION 605 N. BLOUNT ST. ROW

Dear Tania:

Thank you for your time at our previous meeting to discuss Mobilitie's plans within the NCDOT ROW of Blount St. and within the Blount St. Historic District.

Specifically, Mobilitie is deploying infrastructure to form a network that will provide high-speed, high-capacity bandwidth and mobile connectivity to service the residents, businesses and visitors of Raleigh.

SMALL CELLS SITES

Mobilitie's Small Cell Sites involves the installation of small, low-powered wireless facilities, consisting of a transmit-receive antenna that communicates with wireless devices, a wireless backhaul antenna that connects the facility to the carrier's core network, and compact radio equipment mounted on either new or existing utility or light poles. These Small Cells add coverage and capacity to the existing wireless networks, and are designed to blend with existing infrastructure. Enclosed are elevations detailing the specifics of the pole, antenna, and other ancillary equipment along with the Site Plan and Cover Sheet depicting the actual location of the candidate.

REQUEST FOR APPROVAL

Mobilitie respectfully requests that the Historic Review Board consider and approve a Certificate of Appropriateness (COA) for the enclosed application. The application consists of a 15-inch diameter, 47ft wooden pole with 3ft antenna totaling 50ft above ground level. Mobilitie values both the staff and board(s) input to the proposal, and will work closely throughout the permitting and construction process. Please do not hesitate to contact me at 919-604-2736 or mhicks@mobilitie.com if you may need any additional information. Thank you for your attention to this matter.

Respectfully submitted,



Michael Hicks
Permitting Manager

Schedule of Enclosure:

Cover Sheet, Site Plan/Plot Plan, and Pole Elevations (10 copies)
COA Application
Stamped Self Addressed Envelopes within 100ft of parcel that proposed pole is fronting.
Copy of Receipt for Payment of Application Fee

Robb, Melissa

From: Michael Hicks <MHicks@mobilitie.com>
Sent: Monday, June 05, 2017 8:36 AM
To: Tully, Tania; Robb, Melissa
Subject: FW: Blount St. Rendering 090-17-CA (605 N Blount Street)
Attachments: RA90XS096A_9NCB000849A_SIMs (1).jpg

Tania and Melissa,

Please see attached rendering in case you may need this for your files.

Also when you have a moment let me know if the application will proceed either under a major or minor encroachment.

Thanks,

Michael Hicks | NRE Permitting Manager | 919-604-2736 mobile

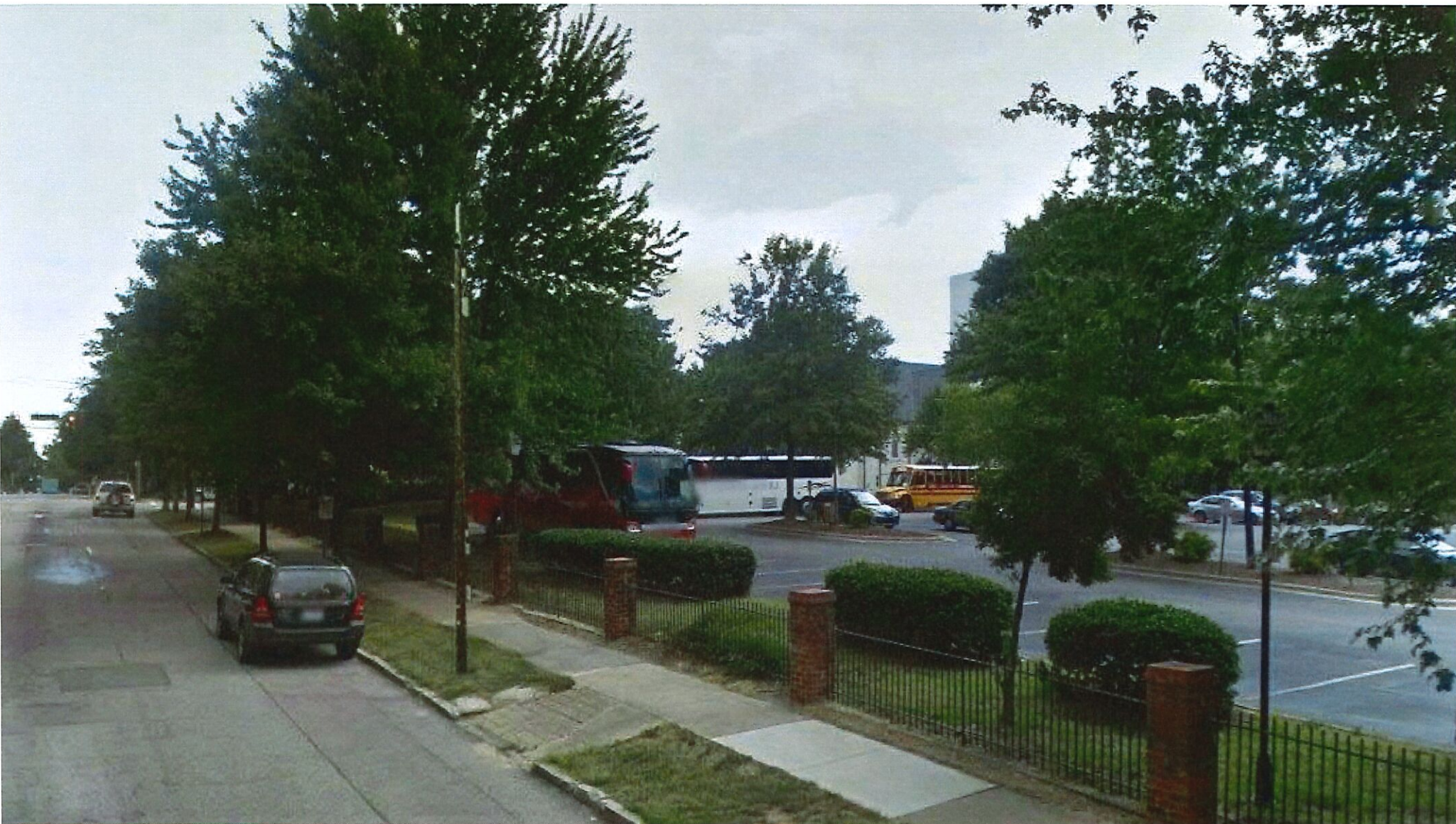
-----Original Message-----

From: Michael Hicks
Sent: Thursday, June 01, 2017 3:40 PM
To: Michael Hicks <MHicks@mobilitie.com>
Subject: Blount St. Rendering

Your message is ready to be sent with the following file or link attachments:

RA90XS096A_9NCB000849A_SIMs (1)

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



Tully, Tania

From: Michael Hicks <MHicks@mobilitie.com>
Sent: Thursday, June 08, 2017 11:35 AM
To: Tully, Tania; Robb, Melissa
Cc: Tannyka Bent
Subject: RE: Blount St. Rendering 090-17-CA (605 N Blount Street)
Attachments: 2017-06-08 Small Cell Pole Example to Raleigh.pdf; Photo of Existing Nearby Utility Pole.jpg

Tania,

Below are answers to your questions.

1. There are several poles (3) nearest to the proposed candidate which are approximately 40ft with ancillary electrical equipment protruding approximately 2ft above pole height. The material type is wooden for all nearby poles. Some of the nearby poles house just overhead electric lines while other poles contain a combination of overhead lines and street lights. Further away from the candidate location are other wooden poles that range in approximate heights from 30ft - 40ft. The nearest pole, which is located directly across Blount St is shown on the attached photo. Again, the overall height with equipment is approximately 42ft.
2. Our pole is 46.8 (round up to 47) feet with a 3ft antenna on top. Thus, the overall antenna height of 50ft. The material type of the proposed pole is wood.
3. Best example to demonstrate what the antenna looks like can be seen on attached pdf document.
4. Best example to demonstrate what the equipment looks like can be seen on attached pdf document.

Michael Hicks | NRE Permitting Manager | 919-604-2736 mobile

-----Original Message-----

From: Michael Hicks
Sent: Tuesday, June 06, 2017 1:53 PM
To: 'Tully, Tania' <Tania.Tully@raleighnc.gov>; Robb, Melissa <Melissa.Robb@raleighnc.gov>
Cc: Tannyka Bent <tannyka.bent@mobilitie.com>
Subject: Blount St. Rendering 090-17-CA (605 N Blount Street)

Tania,

I will get you information back tomorrow to answer your below questions.

Michael Hicks | NRE Permitting Manager | 919-604-2736 mobile

-----Original Message-----

From: Tully, Tania [<mailto:Tania.Tully@raleighnc.gov>]
Sent: Tuesday, June 06, 2017 1:30 PM
To: Michael Hicks <MHicks@mobilitie.com>; Robb, Melissa <Melissa.Robb@raleighnc.gov>
Subject: RE: Blount St. Rendering 090-17-CA (605 N Blount Street)

Hi Michael -


This item will remain on the agenda for the RHDC.



SITE ID-CANDIDATE LETTER/CASCADE ID-CANDIDATE LETTER:
9NCB000849A/RA90XS096A

LATITUDE/LONGITUDE:
35.788401/-78.636082

CROSS STREET:
N BLOUNT ST & PEACE STREET
CITY, STATE, ZIP:
RALEIGH, NC 27604
(WAKE COUNTY)



IF YOU DIG IN ANY STATE
DIAL 811 FOR THE LOCAL
"ONE CALL CENTER" -
IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTOR'S
CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT
SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES
NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL
BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE
UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE
TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE
SOLE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES

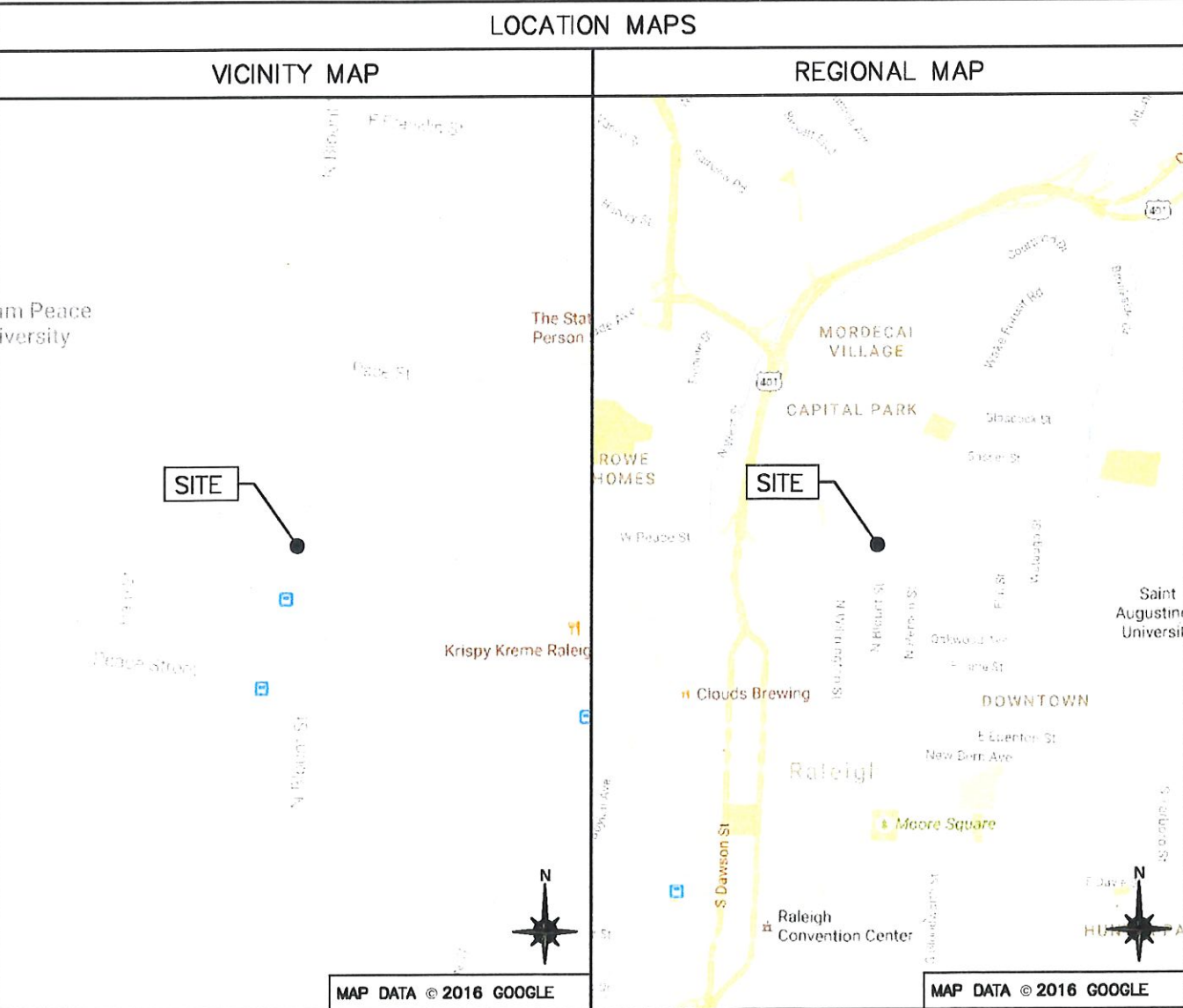
THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A
TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE
MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT
DISTURBANCE OF EFFECT ON DRAINAGE; NO SANITARY SEWER
SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND
NO COMMERCIAL SIGNAGE IS PROPOSED.

SITE INFORMATION	
SITE ID:	9NCB000849A
CASCADE ID:	RA90XS096A
LATITUDE:	35.788401
LONGITUDE:	-78.636082
CROSS STREET:	N BLOUNT ST & PEACE STREET
CITY, STATE, ZIP:	RALEIGH, NC 27604
COUNTY:	WAKE COUNTY
JURISDICTION:	CITY OF RALEIGH
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	MOBILITIE, LLC 3475 PIEDMONT ROAD NE; SUITE 1000 ATLANTA, GEORGIA 30305 PHONE: (312) 638-5400

ENGINEER	
JACOBS ENGINEERING GROUP, INC. 5449 BELLS FERRY ROAD ACWORTH, GA 30102	CONTACT: KARL KRATINA PROJECT MANAGER TEL: (678) 460-1416 PROJECT: ER600201

DO NOT SCALE DRAWINGS

CONTRACTORS SHALL VERIFY ALL PLANS, (E) DIMENSIONS & FIELD
CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE
ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE
PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL ANTENNA EQUIPMENT ON A
NEW WOOD POLE WITHIN AN EXISTING RIGHT-OF-WAY.
THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL A NEW WOOD UTILITY POLE WITH PROPOSED
BACKHAUL TRANSPORT EQUIPMENT

CODES

2015 INTERNATIONAL BUILDING CODE
2014 NATIONAL ELECTRICAL CODE
TIA/EIA-222-G-2 OR LATEST EDITION
LOCAL BUILDING/PLANNING CODE

DRAWING INDEX	
SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
SP-1	EXHIBIT PHOTO & SITE PLAN
EV-1	POLE ELEVATIONS
PL-1	PLUMBING & RISER DIAGRAM
EQ-1	EQUIPMENT DETAILS
EQ-2	EQUIPMENT DETAILS
EX-1	EXCAVATION DETAILS
E-1	ELECTRICAL DETAILS
G-1	GROUNDING DETAILS
S-1	POLE EMBEDMENT DETAILS
TC-1	VEHICULAR TRAFFIC CONTROL PLAN
TC-2	PEDESTRIAN SAFETY PLAN
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES
GN-3	GENERAL NOTES


mobilitie
intelligent infrastructure

3475 PIEDMONT ROAD NE
SUITE 1000
ATLANTA, GEORGIA 30305
PHONE: (312) 638-5400

PROJECT NO: ER600201
DRAWN BY: J. LAURETA
CHECKED BY: B. POTESTA

PRELIM - NOT FOR CONSTRUCTION

D	04.28.17	INCLUDE SMS
C	04.18.17	UPDATE ANTENNA HEIGHT
B	11.15.16	JURISDICTIONAL REVISION
A	07.08.16	FOR REVIEW



IT IS A VIOLATION OF THE LAW FOR ANY
PERSON, UNLESS THEY ARE ACTING UNDER THE
DIRECTION OF A LICENSED PROFESSIONAL
ENGINEER, TO ALTER THIS DOCUMENT

RA90XS096A
9NCB000849A
N BLOUNT ST &
PEACE STREET
RALEIGH, NC 27604
UTILITY POLE

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

(N) POLE LOCATION



SITE SPECIFIC EXHIBIT PHOTO

SCALE: NOT TO SCALE

1



SITE LOCATION

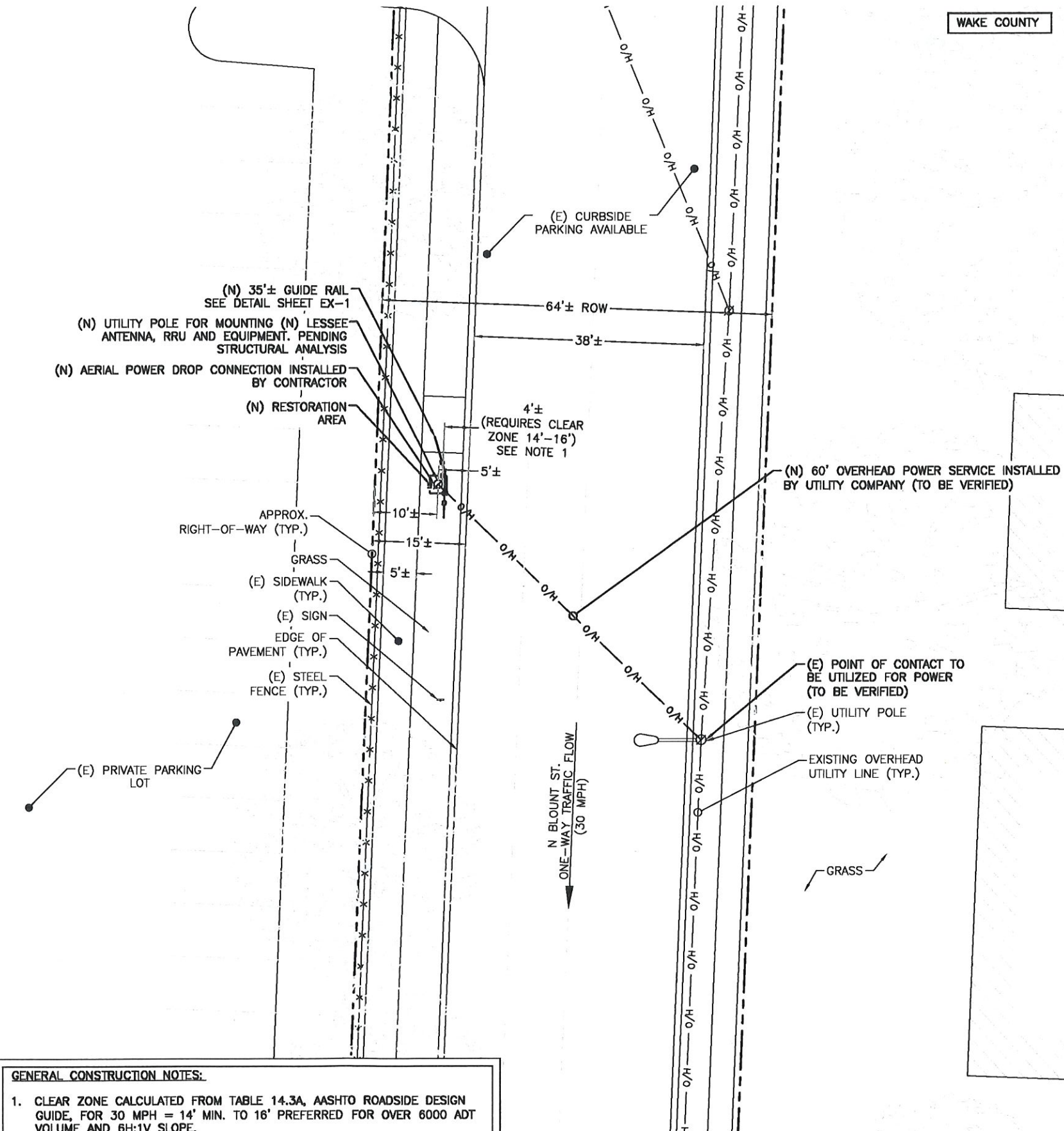
AERIAL SITE LOCATION

SCALE: NOT TO SCALE

2

GENERAL CONSTRUCTION NOTES:

1. CLEAR ZONE CALCULATED FROM TABLE 14.3A, AASHTO ROADSIDE DESIGN GUIDE, FOR 30 MPH = 14' MIN. TO 16' PREFERRED FOR OVER 6000 ADT VOLUME AND 6H:1V SLOPE.
2. PRIOR TO ANY CONSTRUCTION WORK, CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES. ALL UTILITIES SHALL BE MARKED.
3. THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES, RIGHT-OF-WAY LINES, AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.



WAKE COUNTY

mobilitie
intelligent infrastructure

3475 PIEDMONT ROAD NE
SUITE 1000
ATLANTA, GEORGIA 30305
PHONE: (312) 638-5400

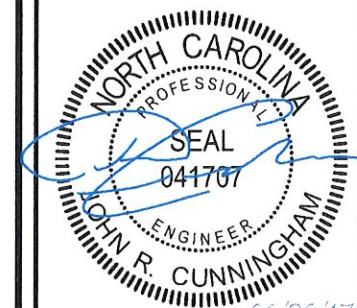
PROJECT NO: ER600201

DRAWN BY: J. LAURETA

CHECKED BY: B. POTESTA

PRELIM - NOT FOR CONSTRUCTION

D	04.26.17	INCLUDE SMS
C	04.18.17	UPDATE ANTENNA HEIGHT
B	11.15.16	JURISDICTIONAL REVISION
A	07.08.16	FOR REVIEW



IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

RA90XS096A
9NCB000849A
N BLOUNT ST &
PEACE STREET
RALEIGH, NC 27604
UTILITY POLE

SHEET TITLE
EXHIBIT PHOTO & SITE PLAN

SHEET NUMBER

SP-1

ENLARGED SITE PLAN

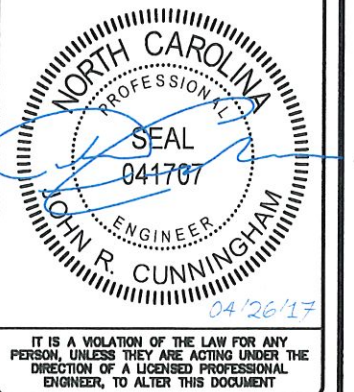
SCALE: 1" = 20'-0" (1" = 10'-0" ON 22"x34" SHEET)

3

PROJECT NO: ER600201
DRAWN BY: J. LAURETA
CHECKED BY: B. POTESTA

PRELIM - NOT FOR CONSTRUCTION

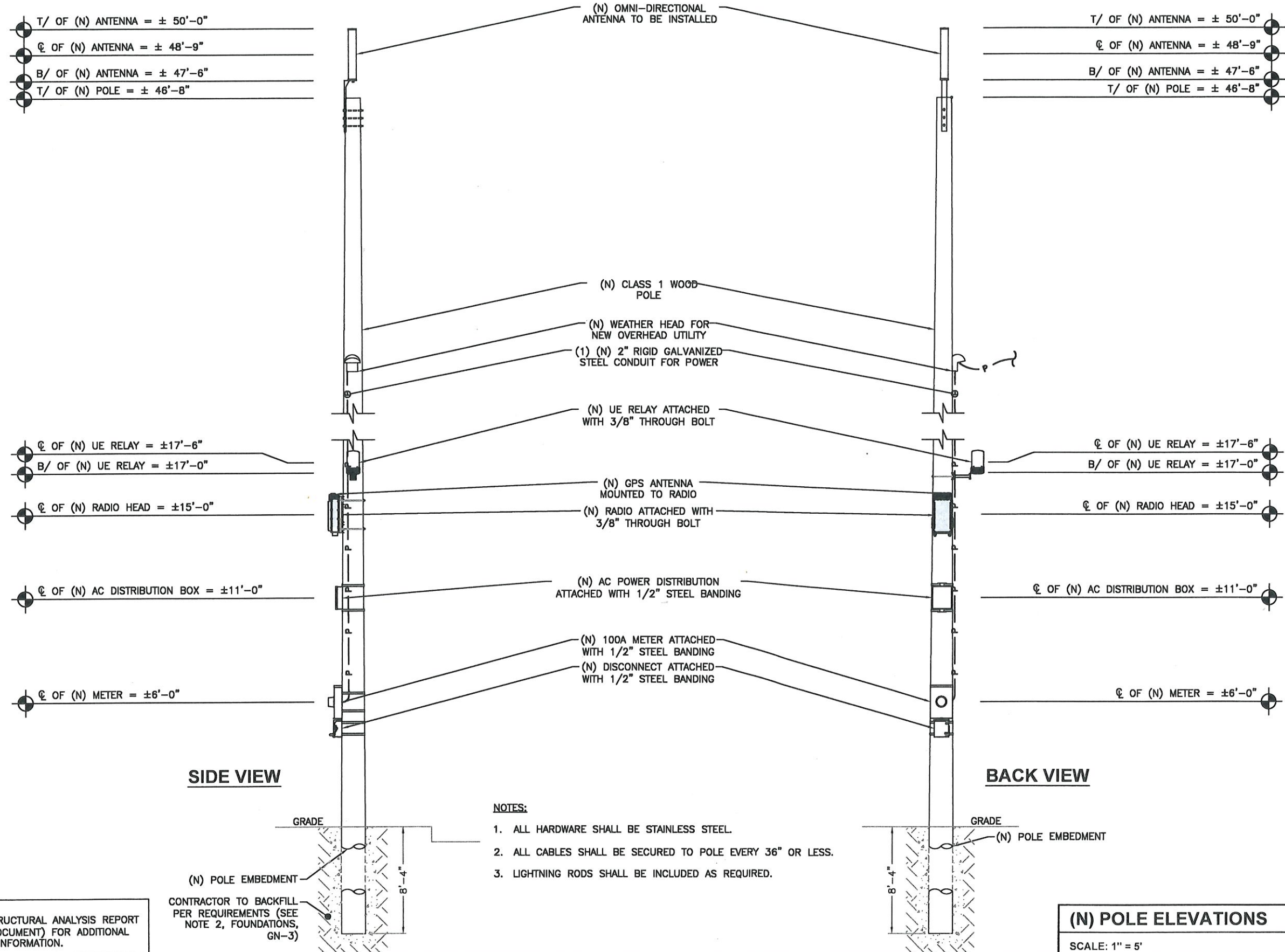
D	04.26.17	INCLUDE S&S
C	04.19.17	UPDATE ANTENNA HEIGHT
B	11.15.16	JURISDICTIONAL REVISION
A	07.08.16	FOR REVIEW



RA90XS096A
9NCB000849A
N BLOUNT ST &
PEACE STREET
RALEIGH, NC 27604
UTILITY POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER
EV-1



STANDALONE POLE: STANDARD

Standard Equipment



Design Highlights

- Site electronics placed directly on pole structure
- Weighs approx. 55 lbs. enabling the attachment to existing poles
- Components can be painted to match existing structures or to comply with JX color scheme
- Equipment designed for ambient air cooling and does not require fan-fed cooling.
- Sidearm mounted UE Relay provides better view 360° around pole allowing placement opposite the flow of traffic

Shown

- Omni antenna @ pole top and in alignment with pole axis minimizing visual impact
- UE Relay Unit & standoff @ 17'6" AGL
- GPS mounted on radio head @ 13'6"
- Radio head @ 13' AGL
- NEMA 4 Power Panel @ 11' AGL



Not Shown

- Utility Meter & Disconnect @ 6' AGL per code
- Cabling within the pole is the first option over placing outside the structure

Small Cell Equipment

Wireless backhaul (UE Relay) Installed at 17.5 ft above ground

RF Antenna
Installed
designed
elevation



Small Cell Equipment

Radio
Installed at 15
ft above
ground



Microwave and
Power over
Ethernet unit,
installed when UE
Relay is not an
option.



mobilitie
intelligent infrastructure



PROPRIETARY & CONFIDENTIAL

37