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TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT:

MOBILITIE, LLC

PROJECT NO.:

2017-23

PROJECT LOCATION:

SECTION 96, BLOCK 1, LOT 11.1

REVIEW DATE:

20 DECEMBER 2017

MEETING DATE:

21 DECEMBER 2017

PROJECT REPRESENTATIVE: MOBILITIE, LLC

- 1. The Applicant's representative has submitted additional surveyed information based on maps of record. No field survey has been performed. From the stamp survey map shown, the power utility pole is located in the right of way of Orr Avenue.
- 2. Status of the Town of Newburgh Town Board's review and/or approval of the project should be discussed with the Planning Board.
- **3.** A public hearing for the site is required.
- **4.** Submission to the Orange County Planning Department for review is required.
- 5. The plans have been modified pursuant to our previous comments which addressed discrepancies in the height of the pole, the antenna and various equipment proposed.

Respectfully submitted,

McGoey, Hauser and Edsall Consulting Engineers, D.P.C.

Patrick J. Hines Principal

• Regional Office • 111 Wheatfield Drive • Suite 1 • Milford, Pennsylvania 18337 • 570-296-2765 •





Pat

Mobilitie LLC 594 Spadway Suite 301 New York, NY, 10012 www.mobilitie.com

JPE

November 10th, 2017

John P. Ewasutyn Planning Board Chairman Town of Newburgh 1496 Route 300 Newburgh, NY 12550

RE: MOBILITIE, LLC's SITE PLAN APPLICATION PB# 2017-23

Dear Mr. Ewasutyn,

Mobilitie is currently seeking to build its small cell facility on an existing Central Hudson utility pole along Orr Avenue. While Mobilitie is attaching to a pole owned by Central Hudson the underlining property which Mobilitie seeks to build upon is located within the Town's right-of-way and controlled by the Town Board. Mobilitie has been requested by the Planning Board to receive the Town Board's permission or consent for the placement of its facility.

Enclosed portions of our application which describe our proposal, equipment and network need. Please kindly forward this information to the Town Board for their review. I look forward to speaking with the Board at the next work session. Please contact me if you have any questions or comments.

Thank you,

Paul Costa

Permitting Manager

Enclosures

New York State Public Service Commission Certificate Construction Drawings of Proposed Site Photosimulation of site Network Deficiency and Propagation Map



Mobilife, L.C. 594 Broadway Suite 301 New York 197 (2012 www.mobilifie com

Town Of Newburgh Proposal

Mobilitie is seeking Site Plan approval to build one small cell site on an existing Central Hudson wooden utility pole within the Town's ROW of Orr Avenue located at Latitude 41.4997 and Longitude -74,071735 in a 1B Zoning District. Mobilitie is the largest privately-held wireless infrastructure provider in the United States. Mobilitie funds, installs, and operates DAS, Small Cell, and Wi-Fi networks, communication tower sites, used by wireless carriers to enable high speed mobile communications. Mobilitie has been granted a Certificate of Public Convenience and Necessity ("PCN") by the New York State Public Service Commission and is a utility under the laws of the state. Mobilitie's PCN status 'allows it to place its telecommunication equipment in the ROW with other telecommunication and utilities services.

The Small Cells are a vital component to the overall telecommunications network as they increase capacity and strengthen network connections to improve coverage with the need for larger sites. The small cells are 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 with no ground equipment. Small cells have a range of 300 to 500 meters. The small cells boost the capacity by offloading data demands to existing macro networks.

The location of the proposed small cell site was selected due to the critical needs in the area for more data capacity. The surrounding area of the consist of large commercial shopping centers. The surrounding area is served by two Transit Orange bus lines the Northside Route and Southside Route with stops near the Walmart and Kohl's. In addition to being located near Route 87 and State Route 17K. The highly trafficked commercial establishments create a high data demands on the existing network.

The network deficiency map enclosed shows the area's current the data demand. The immediate area in red represents a critical level of competing data demand requiring immediate action to supplement network resources. The small cell site will create a coverage area (enclosed is the proposed solution map) of area of 6.4 acres or .01 square miles. It would cover the commercial shopping area directly north of the site and the Speedway south of the site and 300 plus feet of Orr Avenue. The site also cover vehicles traveling along Route 300 and portions of the Home Depot parking lot and Mid-Hudson Valley Bank. The small cell will offload the data through its wireless backhaul to the macro site located at Snake Hill in the City of Newburgh. By offloading the area's demand, the site will allow for improved service to Sprint's network in the area.

Mobilite will be building its facility on an existing Central Hudson utility pole along the Town owned Orr Avenue. This collocation benefits the Town by using existing ROW infrastructure an eliminates the need for a new pole. The current pole is 30 feet 2 inches tall and contains a guidewire attached to a pole across the street. Mobilitie will install the small cell equipment on the side of the pole which will transport the data to the donor macro site.

On top of the pole will be a 2.5 Mhz omni antenna that has a height of 29.5 inches and a diameter of 4.7 inches. The antenna will be attached to the pole with a 21.6-inch bracket. A portion of the bracket will wrap around the pole leaving a 10-inch space from the top of the pole to the bottom of the antenna. In total,



Mobilitie, LLC 594 Broadway Suite 301 New York, NY 10012 www.mobilitie.com

the antenna will extend the structure height to 33 feet 6 inches – this is consistent with the poles along the Orr Avenue.

Mounted onto the side of the pole will be the remaining equipment used as part of the small cell facility. At 5 feet from the ground, there will be a Central Hudson meter and 2 feet above the meter will a power disconnect, extending 5.95 inches off the pole. These will be attached with a .5-inch steel band. At 11 feet from the ground will be the A/C distribution box connected to the pole with a .5-inch steel band. The center line of the radio will be located 15 feet from the ground. The radio has a height of 20.3 inches, is 10.3 inches, and will extend 8.3 inches from the pole. It will be attached to the pole with a 3/8 inch through bolt. On top of the radio will be a small GPS antenna that will extend 2 inches off the radio. The UE relay will be located 17 feet from the ground. The UE relay has a height of 13 inches and a diameter of 7 inches. The UE relay will extend 10 inches from the pole. Power for the site will be overhead from the existing utility lines along Orr Avenue on the southwest side of the street adjacent to the Speedway Entrance. Enclosed is a photo simulation of the proposed facility.

Construction of the site will can take up to two days but may vary. The first day of construction consist of prep work and pulling of aerial power. The second day will include the installation of equipment and integration of equipment. Mobilite will not be boring, trenching or digging up any part of the Right-of-Way.

The construction of the small cell wireless facility allows Sprint to provide precisely placed facility that will provide improved high-speed, high-capacity bandwidth network and meet the ever-growing demand for connectivity. Using existing infrastructure in the ROW allows for this improve coverage without any additional impacts on the ROW and blends in with the current infrastructure.

STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

THREE EMPIRE STATE PLAZA, ALBANY, NY 12223-1350

Internet Address: http://www.dps.state.ny.us

PUBLIC SERVICE COMMISSION

WILLIAM M. FLYNN Chairman PATRICIA L. ACAMPORA MAUREEN F. HARRIS ROBERT E. CURRY JR. **CHERYL A. BULEY**



PETER McGOWAN Acting General Counsel

JACLYN A. BRILLING Secretary

October 3, 2006

John C. Dodge, Esq. Cole Raywid & Braveman, LLP 1919 Pennsylvania Avenue, NW Washington, DC 20006

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Re: Case No. 06-C1049

Dear Mr. Dodge: [] - [[[]] - [

實達物 多数摄影性 The application, by Mobilitie, LLC on August 29, 2006, for a Certificate of Public Convenience and Necessity to operate in New York State as a facilities-based provider and reseller of telephone service, without authority to provide local exchange service, is hereby approved. This approval is based upon the accuracy of the information provided in the company's application and may be revoked if the application is found to contain false or misleading information, for failure to file or maintain current tariffs, or for violation of Commission rules and regulations.

The company's tariff, P.S.C. No. 1 – Telephone, is also approved.

The company is not authorized to use its own operators to handle 0- (emergency or non-emergency) calls. Such calls must be routed to another telephone company or operator services provider authorized to handle such calls, until such time as an amended Certificate of Public Convenience and Necessity is obtained pursuant to Part 649.6 of the Commission's rules.

The company must obtain any required consents of municipal authorities before commencing construction of telephone lines. It must also comply with applicable federal laws, New York State Public Service Law and related statutes, and the Commission's rules and regulations, with a regulation of the second of the regulations of the regulations and regulations.

The company is also required to file a Statement of Gross Intrastate Operating-Revenues by March 31 each year. It will be notified in writing each year of the required content and format of this report.

If you have any questions, please contact Jim Kittleman at (518) 486-2812.

By direction and delegation of the Commission,

Director

Office of Telecommunications

Maria LeBoeuf CC:

Greg Pattenaude Central Operations (2)

A Proposed Small Cell

9NYB007805-A Site Lat: 41.499700 Site Long: -74.071735 Pole Height: 35 ft

dditional comments below:

PROPRIETARY & CONFIDENTIAL





November 10th, 2017

John P. Ewasutyn Planning Board Chairman Town of Newburgh 1496 Route 300 Newburgh, NY 12550

Re: Orr Road Small Cell Site PB # 2017-23

Dear Mr. Ewasutyn,

Please find the enclosed documents and comments to the November 2nd, Planning Board technical review memo in regard to Mobilitie's Site Plan application PB# 2017-23

In response to our previous comments a sheet S-1 Existing Conditions Survey has been submitted. However note #1 on the survey identifies "that it is an existing condition plans and not intended to define property boundaries. Property lines shown are based on references below and evidenced found in the field. This plan is assigned to the parties indicated hereon and use of this plan by others is prohibited." Use of the Orange County GIS Mapping for boundary surveys is not appropriate.

Please find the attached survey which marked the space between the Right-of-Way of Orr Avenue and Property line.

The Applicants representative have submitted a response letter which identifies the height of the pole at two different elevations, 29 feet 6 inches a 38 feet 4 inches, while the plan sheets the maximum height of the pole at 26 feet 2 inches.

Please find revised plans which show the correct height of the pole without the antenna at 30'-2" and with the antenna at 33'-6".

The Applicant may wish to request additional waivers for section 168-6 F, various items 1-24.

Mobilitie has attached a letter describing the requested waviers. Mobilitie is not seeking full wavier of section 168-6 F as it has provide documents on the November 2nd meeting to meet the requirements of Section 168-6 F 1-24

The Applicant requires permission or consent of the Town Board for placement of the facility within the town road right-of -way.

Mobilitie has submitted documents to the Town Board and has requested to discuss the project at the next work session. Mobilitie will not build its facility till it the Site Plan application has been approved and been given permission from the Town Board to access the Right-of-Way.

Thank you,

Paul Costa

Permitting Manager





Mobilitie is seeking the below waivers pursuant to Chapter 168 Telecommunications Facilities, Wireless code of the Town of Newburgh.

- Mobilitie is seeking wavier request for § 168-6 F Item 6,7,8,9,17,18,21,22. Mobilitie has met the requirements for items 1-5,10-16,19,20,23 in the documents provided to the Planning Board. Mobilitie has provided construction drawings detailing the proposed location and dimensions, equipment specifications, Radio Frequency Electromagnetic Energy compliance report and a structural analysis of the existing pole. These documents provide the necessary information required in Section F.
- ➤ Mobilitie is seeking a waiver request for Chapter § 168-8 Section J & K as the proposed facility is attaching to an existing wooden utility pole and will only extend the height of the structure by 3"-4'. The design of the facilities attached to the existing utility pole and is consistent with the color and scale of existing wooden utility pole along the right-of-way of Orr Avenue and within the Town limits.
- Mobilitie is seeking a waiver request for Chapter § 168-8 Section N—Mobilitie proposes to pull power using an overhead powerline from Central Hudson power lines across the street. The overhead power line will not be detrimental to the health, safety, general welfare and environment, including the visual and scenic characteristics of the area.
- ➤ Mobilitie is seeking a waiver request for Chapter § 168-8 Section Q The proposed facility is collocated on an existing wooden utility pole within in the right-of-way of Orr Avenue. The site's location prevents Mobilitie from meeting this request. The site will have continued access through the public right-of-way of Orr Avenue.
- ➤ Mobilitie is seeking a waiver request for Chapter § 168-8 Section Z The proposed facility is collocated on an existing wooden utility pole and will extend the height of the structure to 33"-6' which is consistent with the color and scale of existing wooden utility poles along the western portion of Orr Avenue.
- Mobilitie is seeking a waiver request for § 168-13 Lot size and setbacks. The proposed facility is located on an existing wooden utility pole within the right-of-way. The location of the facility prevents Mobilitie from meeting the required setbacks abutting parcels, right-of-way's and of the underlying zoning district.

ANDEROYYOM II

9NYB007805-A Site Lat: 41.499700 Site Long: -74.071735 Pole Height: 35 ft Proposed Small Cell -Critical

-dilucal

-Above Avera

hese levels are determined by complex algorithms which consider many variables including usage patterns, non-preferred user events, and data trends. ritical [Red -Areas which represent a critical level of competing data demand requiring immediate action to supplement network resources who we Average | Yellow - Areas which represent contentious data demand at greater than average levels and projected toward critical levels werage (Green -Areas which represent average data demand growth

TROBILITIES
intelligent infrastructure

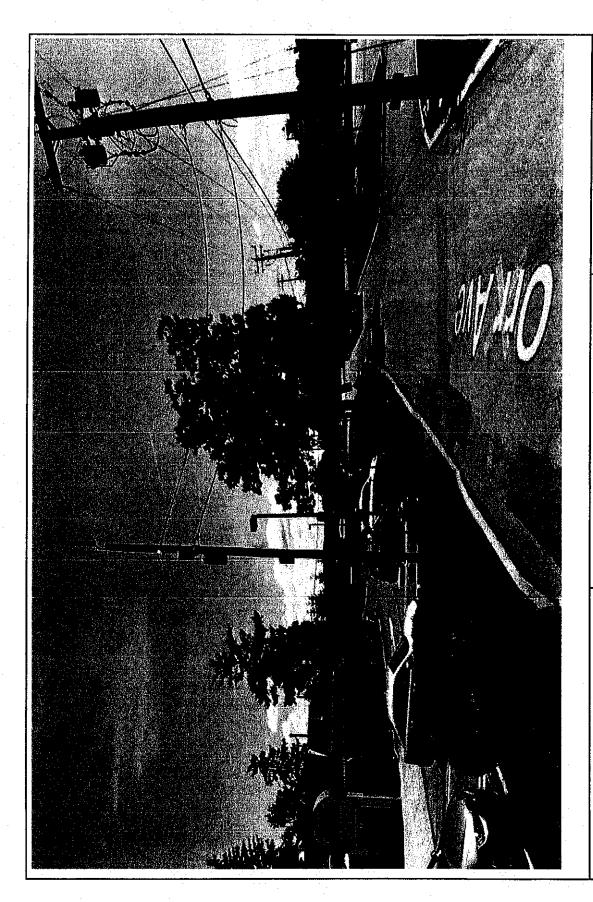


Existing Coverage

intelligent infrastructure

PROPRIETARY & CONFIDENTIAL

otal area covered:0.01 sq mi otal roads covered:0.28 mi he wireless demand in this area is driven from transient wireless devices which have shown increasing need for wireless infrastructure ssources

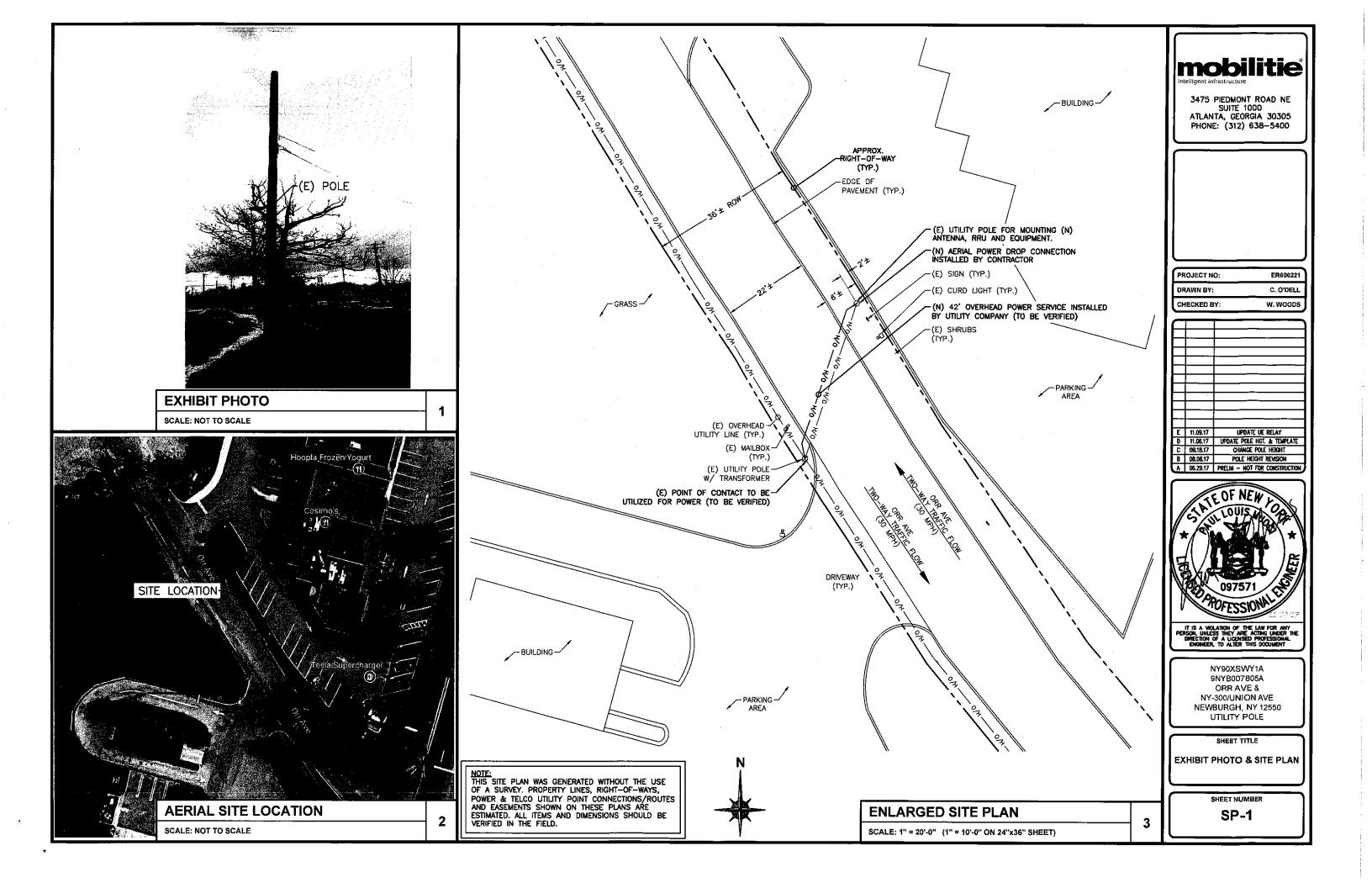




PROPOSED VIEW 9NYB007805A/NY90X\$WY1A 41.499700/-74.071735 ORR AVE & NY-300/UNION AVE NEWBURGH, NY 12550

DATE: 8/23/17





SITE ID-CANDIDATE LETTER/CASCADE ID-CANDIDATE LETTER: 9NYB007805A/NY90XSWY1A

LATITUDE/LONGITUDE: 41.499700/-74.071735

CROSS STREET:

ORR AVE & NY-300/UNION AVE

CITY, STATE, ZIP:

NEWBURGH, NY 12550



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

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENENCE 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 VERFY ALL THE UTILITIES WITHIN THE LUMBY OF THE WORK. ALL DAMAGE MADE TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLIC RESPONSIBILITY OF THE CONTRACTOR SHALL BE THE

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.

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.

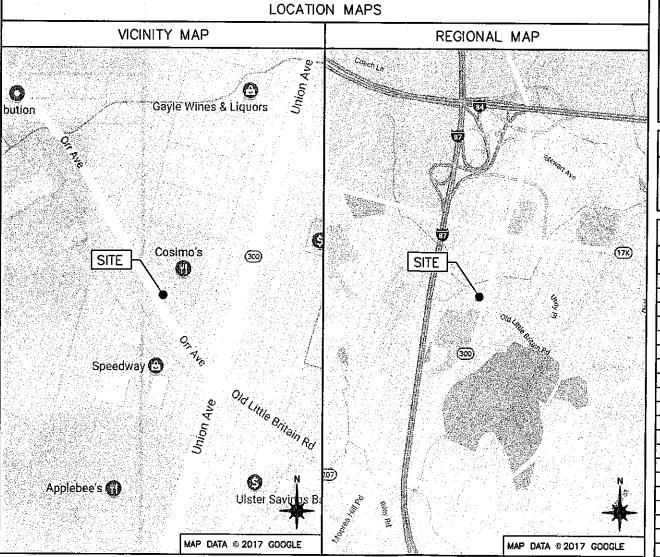
PRIOR TO ANY CONSTRUCTION WORK, CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES. ALL UTILITIES SHALL BE MARKED.

THIS DESIGN IS SUBJECT TO ANY JURISDICTIONAL AND OWNER APPROVALS INCLUDING JURISDICTIONAL REQUIREMENTS, RF EQUIPMENT CONFIGURATION, AND FINAL UTILITY COORDINATION WITH PUBLIC POWER AND UTILITY PROVIDERS/ CONTRACTOR TO CONFIRM FINAL REQUIREMENTS WITH OWNER.

SIT	TE INFORMATION
SITE ID:	9NYB007805A
CASCADE ID:	NY90XSWY1A
LATITUDE:	41.499700
LONGITUDE:	-74.071735
CROSS STREET:	ORR AVE & NY-300/UNION AVE
CITY, STATE, ZIP:	NEWBURGH, NY 12550
COUNTY:	ORANGE COUNTY
JURISDICTION:	TOWN OF NEWBURGH
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: ER600221



PROJECT DESCRIPTION

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

- INSTALL PROPOSED BACKHAUL TRANSPORT EQUIPMENT ON AN EXISTING WOOD UTILITY POLE

CODES

INTERNATIONAL BUILDING CODE NATIONAL ELECTRICAL SAFETY 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	
EV-2	POLE ELEVATIONS	
PL-1	PLUMBING & RISER DIAGRAM	
EQ-1	EQUIPMENT DETAILS	
EQ~2	EQUIPMENT DETAILS	
E-1	ELECTRICAL DETAILS	
G-1	GROUNDING DETAILS	
TC-1	VEHICULAR TRAFFIC CONTROL PLAN	
TC-2	PEDESTRIAN SAFETY PLAN	
GN-1	GENERAL NOTES	
GN-2	GENERAL NOTES	
GN3	GENERAL NOTES	

intelligent infrastructure

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

1	PROJECT NO:	ER600221		
J	DRAWN BY:	C. O'DELL		
ı	CHECKED BY:	w. woods		
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	11.09.17	UPDATE UE RELAY
	11.06.17	UPDATE POLE HGT. & TEMPLATE
	08,18.17	CHANGE POLE HEIGHT
	08.08.17	POLE HEIGHT REVISION
	06.29,17	PREUM - NOT FOR CONSTRUCTION
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IT IS A VIOLATION OF THE LAW FOR AN PERSON, UNLESS THEY ARE ACTING UNDER DIRECTION OF A LICENSED PROFESSION, ENGINEER, TO ALTER THIS DOCUMENT

NY90XSWY1A 9NYB007805A ORR AVE & NY-300/UNION AVE NEWBURGH, NY 12550 UTILITY POLE

SHEET TITL

TITLE SHEET

SHEET NUMBER

T-1

SITE WORK NOTES CONT'D

- STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY, UNLESS OTHERWISE NOTED.
- NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
- 10. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
- 11. ANY FILLS PLACED ON (E) SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE (E) SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
- 12. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO DEBRIS, PAPER, TRASH, WEEDS, BRUSH, EXCESS FILL, OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
- ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
- 14. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

ENVIRONMENTAL NOTES:

- ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER
 CLEAN UP FOR AREAS IN VIOLATION.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
- 3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES AS REQUIRED BY THE LOCAL JURISDICTION WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
- 4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS
- CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- SEEDING AND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
- 9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE, BUT IS NOT LIMITED TO SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS
- 10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

11. GC TO PLACE FILTER MATERIAL AT ALL CATCH BASINS ADJACENT TO CONSTRUCTION SITE TO PREVENT SOLID WASTE CONTAMINATION FROM ENTERING SEWER SYSTEM

FOUNDATION. EXCAVATION AND BACKFILL NOTES:

- ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL, UNLESS OTHERWISE NOTED.
- BACKFILL OF THE POLES SHALL BE PERFORMED BASED ON THE WATER TABLE. FLOWABLE FILL MIXTURES PURCHASED FROM CONCRETE PLANTS WILL BE USED INSTEAD OF FOAM IN WATER TABLE AREAS.
 - A: NORMAL SOILS ORDER OF PREFERENCE FOAM, FLOWABLE FILL, CONCRETE, COMPACTED AGGREGATES
 - B: HIGH WATER TABLE SOILS ORDER OF PREFERENCES FLOWABLE FILL, CONCRETE, COMPACTED AGGREGATES.
- 3. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
- 4. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF ADEQUATE BEARING CAPACITY IS NOT ACHIEVED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED LIME STONE #57 MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
- 5. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
- 6. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL. BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
- NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
- 8. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
- 9. NEWLY GRADED GRAVEL SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR—3401 AS MANUFACTURED BY TYPAR GEOSYNTHETICS OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. I.E. FOOT TYPE NO. 57 FOR FENCED COMPOUND; FOOT TYPE NO. 67 FOR ACCESS DRIVE AREA, UNLESS OTHERWISE NOTED.
- 10. IN ALL AREAS TO RECEIVE FILL: REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH (E)/PREPARED SOIL SURFACE.
- 11. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE—CONDITION AND/OR AERATE THE SOILS AND RECOMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.

- 12. IN AREAS WHICH (E) GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
- 13. (E) GRAVEL SURFACING MAY NOT BE REUSED.
- 14. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL, GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
- 15. PROTECT (E) GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING 'MATTS' OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANY DAMAGE TO (E) GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTORS OPERATIONS.
- 16. DAMAGE TO (E) STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/ OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
- 17. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.



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SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-3

ELECTRICAL NOTES CONT'D

- 13. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- 15. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS EXCAVATION, AND BACKFILLING.
- 16. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IECE.
- 17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S CATALOG INFORMATION OF ANY/ALL EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE MOBILITIE CM PRIOR TO INSTALLATION.
- 18. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE MOBILITIE CM UPON FINAL ACCEPTANCE.
- 19. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 20. DISCONNECT SWITCHES SHALL BE UL-RATED, H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- 21. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND KNOWN AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED NO SUBSTITUTIONS.
- 22. RACEWAYS: CONDUIT SHALL BE SCHEDULE 80 PVC MEETING OR EXCEEDING NEMA TC2 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL—6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'COLD GALV'.
- 23. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- 24. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, UNLESS OTHERWISE NOTED, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- 25. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST--ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- 26. SERVICE: AS SPECIFIED ON THE DRAWINGS. OWNER OR OWNER'S AGENT WILL APPLY FOR POWER. ALL PROVISIONS FOR TEMPORARY POWER WILL BE OBTAINED BY THE CONTRACTOR.
- 27. TELEPHONE OR FIBER SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- 28. ELECTRICAL AND TELCO/FIBER RACEWAYS TO BE BURIED A MINIMUM DEPTH OF 30", UNLESS OTHERWISE NOTED.
- 29. CONTRACTOR SHALL PLACE 6" WIDE DETECTABLE WARNING TAPE AT A DEPTH OF 6" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOM".
- 30. ALL BOLTS SHALL BE 3-16 STAINLESS STEEL

GROUNDING NOTES:

- ALL HARDWARE SHALL BE 3-16 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND, AS SPECIFIED, BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR SIZED TO MATCH COMPONENTS OR LOG SIZE.
- 2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-DXIDANT COMPOUND BEFORE MATING.
- ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.
- 4. ALL ELECTRICAL AND GROUNDING AT THE POLE SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #6 GROUND WIRES. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS.
- 7. ALL GROUND CONNECTIONS SHALL BE #6 AWG, UNLESS OTHERWISE NOTED. USE SOLID COPPER, BLACK JACKETED WIRE ON NON WOOD POLES AND SOLID TINNED COPPER, BARE (NO JACKET) WIRES ON WOOD POLES. BLACK WIRES WILL USE A SINGLE STRIPE OF GREEN ELECTRICAL TAPE WITHIN 12" OF THE CONNECTION POINTS TO IDENTIFY AS GROUNDING WIRE.
- B. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A
 MINIMUM OF 30" BELOW GRADE/ 6" BELOW FROST—LINE IN TRENCH, UNLESS
 OTHERWISE NOTED. BACK FILL SHALL BE COMPACTED AS REQUIRED BY
 ARCHITECT/ENGINEER.
- 10. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
- 11. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
 - BURNDY, HY-GRADE U.L. LISTED CONNECTORS FOR OUTDOOR USE OR AS APPROVED BY APPLICANT PROJECT MANAGER.
 - CADWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).
 - C. ONE (1) OR (2) HOLES TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS.
- 12. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES) AND WEATHER-PROOFED WITH HEAT SHRINK.
- ALL CONNECTION HARDWARE SHALL BE TYPE 3-16 STAINLESS STEEL (NOT ATTRACTED TO MAGNETS).
- 14. ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250-82 AND SHALL BOND ALL (E) AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS.

TESTING AND EQUIPMENT TURN UP REQUIREMENTS:

- RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT TESTING WILL COMPLY WITH CURRENT INDUSTRY STANDARDS AND OR THOSE STANDARDS OF THE EQUIPMENT MANUFACTURER OR PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.
- CONTRACTOR WILL USE THE APPROPRIATE CALIBRATED TESTING EQUIPMENT IN
 THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL
 EQUIPMENT THAT MEET INDUSTRY STANDARDS OF THE MANUFACTURER OR THOSE
 STANDARDS PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.

- CONTRACTOR TO VERIFY AND RECORD ALL TEST RESULTS AND PROVIDE THESE RESULTS WITHIN THE FINAL CLOSE OUT PACKAGE.
- 4. ALL PERSONNEL INVOLVED IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT WILL BE REQUIRED TO HAVE BEEN TRAINED AND OR CERTIFIED IN THE PROPER TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT.
- ALL TEST RESULTS SHALL BE TIME STAMPED, RECORDED AND PRESENTED PRIOR TO ENERGIZING AND TURN UP OF ANY EQUIPMENT.
- GPS EQUIPMENT (WHEN REQUIRED) IS NOT TO BE TESTED OR ATTACHED TO ANY CABLING DURING TESTING, DOING SO WILL DAMAGE THE GPS UNIT.
- 7. PRIOR TO TESTING IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE TESTING PROCEDURES THEY ARE TO CALL AND OBTAIN ASSISTANCE FROM A QUALIFIED DESIGNATED TESTING REPRESENTATIVE.
- B. EQUIPMENT IS NOT TO BE ENERGIZED UNTIL ALL TESTING HAS BEEN COMPLETED, APPROVED AND THE APPROPRIATE AUTHORITY HAS BEEN NOTIFIED AND GIVES APPROVAL TO ENERGIZE THE EQUIPMENT.

SITE WORK NOTES:

- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- 3. ALL (E) UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE. BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL (E) UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING (E) UTILITIES.
- 4. CONTRACTOR SHALL VERIFY ALL (E) UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER OR MOBILITIE CM FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT THEIR OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL UTILITY LOCATE HOT LINE, SUCH AS 811, FOR UTILITY LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
- 5. ALL NEW AND (E) UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK. ANY COST RELATED TO ADJUSTING (E) STRUCTURES SHALL BE BORNE SOLELY BY THE CONTRACTOR:
- GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO (E) GRADES AT THE GRADING LIMITS.
- 7. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

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> > SHEET TITLE

GENERAL NOTES

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GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST ADOPTED EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- 2. CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWINGS AND LATEST MOBILITIE CONSTRUCTION STANDARDS. THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THE CONSTRUCTION DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK.
- 3. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE (N) WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED, AS SHOWN, PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR MOBILITIE CM PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONDITIONS.
- 4. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ANY/ALL ITEMS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM SUBJECT ONLY TO OWNER—SUPPLIED ITEMS. CONTRACTOR SHALL PROVIDE ANY/ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- 5. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. OWNER PROVIDED AND CONTRACTOR INSTALLED MATERIALS WILL INCLUDE THE FOLLOWING, UNLESS NOTED OTHERWISE:
 - A) TRANSMITTER
 - B) UHF ANTENNA AND MOUNTING BRACKETS, GPS UNIT AND KU BACKHAUL
 - C) UHF COAX AND HANGERS
 - D) INTEGRATED LOAD CENTER
- 5. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, (E) CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY DISCREPANCIES TO THE ATTENTION OF THE MOBILITIE CM, IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.
- 7. DETAILS PROVIDED ARE FOR THE PURPOSE OF SHOWING DESIGN INTENT.
 MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR SITE CONDITIONS,
 AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- 8. CONTRACTOR SHALL PAY FOR APPLICABLE PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO ORDERING MATERIALS AND THE COMMENCEMENT OF WORK.
- THE TERM 'PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
- 10. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 11. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING ACCEPTED INDUSTRY—STANDARD SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
- 13. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE MOBILITIE CM AND SCHEDULE THEIR ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.

- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
- 15. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 16. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT (E) SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATE REPAIR, TO NEW CONDITION, ANY DAMAGE THAT OCCURS DURING CONSTRUCTION AT THE SOLE COST OF THE CONTRACTOR.
- 17. IN DRILLING HOLES, OR CORING, INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING STEEL SHALL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES (UNLESS NOTED OTHERWISE). LOCATIONS OF REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE LOCATED BY THE CONTRACTOR USING APPROPRIATE METHODS AND EQUIPMENT PRIOR TO ANY DRILLING OR CORING OPERATIONS IN (E) CONCRETE.
- CONTRACTOR SHALL REPAIR, TO NEW CONDITION, ALL (E) WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
- 19. CONTRACTOR SHALL SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR MATERIALS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS AND SYSTEMS THAT MEET OR EXCEED THE RATING OF THE ASSEMBLY IN WHICH THE NEW PENETRATION IS PLACED.
- 20. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
- 21. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
- 22. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO (E) SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH JURISDICTIONAL OR STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH LOCAL REGULATORY AUTHORITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ANY EROSION CONTROL MEASURES, RECORD—KEEPING, MONITORING, AND REPORTING TO THE DWNER AND REGULATORY AUTHORITIES.
- 23. ALL CONSTRUCTION WORK IS TO ADHERE TO APPLICANT'S INTEGRATED CONSTRUCTION STANDARDS UNLESS STATE OR LOCAL CODE IS MORE STRINGENT.
- 24. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PERFORM THE CONSTRUCTION IN ACCORDANCE PER STATE BUILDING STANDARDS CODE AND STATE CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY PER STATE CODE OF REGULATIONS, A SCOPE OF WORK DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE JURISDICTION BEFORE PROCEEDING WITH THE WORK. A CHANGE ORDER FOR THAT SCOPE SHALL BE SUBMITTED TO THE MOBILITIE CM PRIOR TO PROCEEDING WITH THE WORK.
- 25. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- 26. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE. ANY CORRECTIVE WORK SHALL BE COMPLETED AT THE SOLE COST OF THE CONTRACTOR.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY MOBILITIE CM AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE MOBILITIE CM HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.

- 2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL (E) CONDITIONS OF ELECTRICAL EQUIP., ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF THEIR BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, ALL CODES AND ORDINANCES OF THE LOCAL JURISDICTION, AND POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT ARE NOT BE LIMITED TO:
 - A) UL UNDERWRITERS LABORATORIES
 - B) NEC NATIONAL ELECTRICAL CODE
 - C) NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
- D) OSHA OCCUPATIONAL SAFETY AND HEALTH ACT
- E) SBC STANDARD BUILDING CODE
- F) NFPA NATIONAL FIRE PROTECTION AGENCY
- G) ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- H) IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
- 1) ASTM AMERICAN SOCIETY FOR TESTING MATERIALS
- REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH MOBILITIE CM ANY SIZES AND LOCATIONS WHEN NEEDED.
- (E) SERVICES: CONTRACTOR SHALL NOT INTERRUPT (E) SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- 6. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE MOBILITIE CM, PRIOR TO BEGINNING ANY WORK.
- 7. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION, UNLESS OTHERWISE NOTED.
- B. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 9. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY APPLICANT.
- 11. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY FUNCTIONAL AND SHALL BE APPROVED BY THE MOBILITIE CM AND LOCAL JURISDICTION. ANY DEFICIENCIES SHALL BE CORRECTED BY AN ELECTRICAL CONTRACTOR AT THE SOLE COST OF THE CONTRACTOR.
- 12. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.



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

PROJECT NO:	ER600221
DRAWN BY:	C. O'DEĻL
CHECKED BY:	W. WOODS

E	11.09.17	UPDATÉ UE RELAY
D	11.06,17	UPDATE POLE HGT. & TEMPLATE
G	08.1B.17	CHANGE POLE HEIGHT
В	08.08.17	POLE HEIGHT REVISION
A	06.29.17	PRELIM - NOT FOR CONSTRUCTION



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> NY90XSWY1A 9NYB007805A ORR AVE & NY-300/UNION AVE NEWBURGH, NY 12550 UTILITY POLE

> > SHEET TITLE

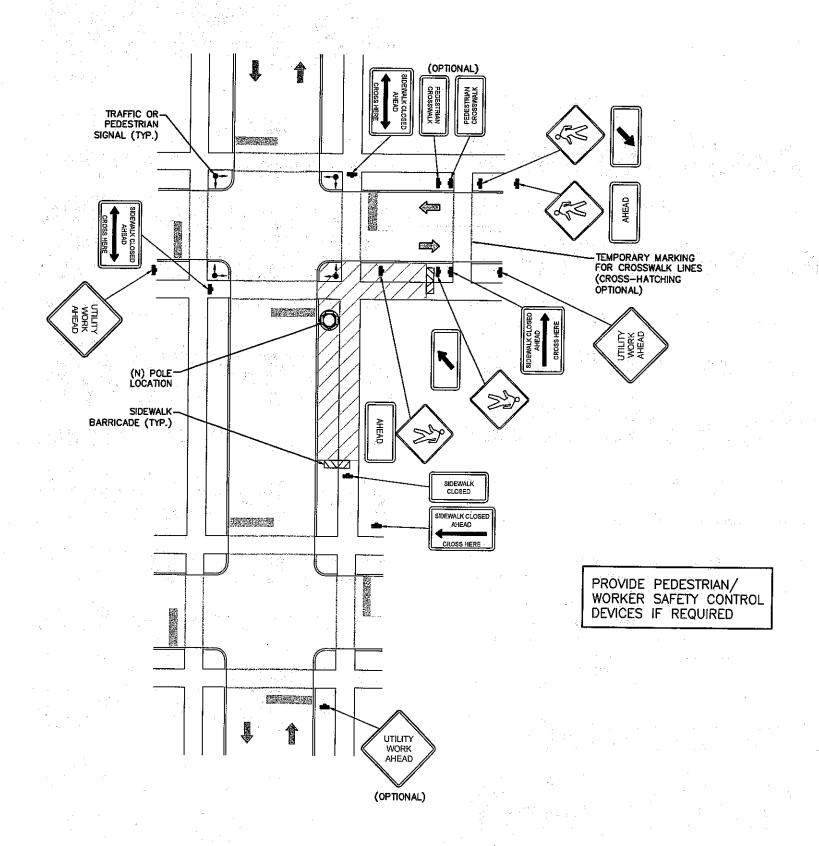
GENERAL NOTES

SHEET NUMBER

GN-1

TRAFFIC CONTROL GENERAL NOTES

- ALL TEMPORARY TRAFFIC CONTROL SIGNAGE, LAYOUTS
 AND PROCEDURES SHALL COMPLY WITH LOCAL
 JURISDICTIONAL REQUIREMENTS AND MANUAL OF UNIFORM TRAFFIC
 CONTROL DEVICES (MUTCD), LATEST EDITION, WHICHEVER IS MORE STRINGENT.
- 2. PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
- 3. TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANS. SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.
- 4. SELECTION, PLACEMENT, MAINTENANCE, AND PROTECTION OF TRAFFIC, PEDESTRIANS, AND WORKERS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART VI "TEMPORARY TRAFFIC CONTROL", AND LOCAL JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS, AND SHALL BE APPROVED BY THE APPROPRIATE HIGHWAY AUTHORITY HAVING JURISDICTION.
- 5. ADVANCE WARNING SIGNS, DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY AND FOR ACTUAL TRAFFIC SPEEDS IF IN EXCESS OF POSTED SPEED LIMITS.
- TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.
- CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON THE (E) TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR COVERED.
- 8. ALL (E) ROAD SIGNS, PAVEMENT MARKINGS AND/OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE (N) TRAFFIC CONTROL PLAN SHALL BE COVERED, REMOVED, OR RELOCATED. ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO MATCH PRE—CONSTRUCTION CONDITION AFTER COMPLETION OF WORK.
- CONTRACTOR SHALL CONTACT LOCAL AUTHORITY HAVING HIGHWAY JURISDICTION AND PROVIDE ADDITIONAL "FLAGMEN" OR POLICE SUPERVISION, IF REQUIRED.
- 10. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND PLACED ON A MINIMUM 6H:1V SLOPE PRIOR TO END OF EACH WORK DAY. OTHER EXCAVATED AREAS WITHIN THE CLEAR ZONE ARE TO BE EITHER BACKFILLED OR PRECAST CONCRETE CURB BARRIER CONSTRUCTION BARRIER SET TEMPORARILY IN PLACE TO SHIELD VEHICULAR AND PEDESTRIAN TRAFFIC.
- 11. WHERE DICTATED BY LOCAL CONDITIONS, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN AND WORKER CROSSING LOCATIONS IN ACCORDANCE WITH ALL APPLICABLE CODES AND OSHA REQUIREMENTS.
- 12. CONSTRUCTION ZONE SPEED LIMIT IF REDUCED FROM POSTED LIMITS SHALL BE IN ACCORDANCE WITH MUTCD AND WILL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
- 13. THERE SHALL BE NO WORKERS, EQUIPMENT, OR OTHER VEHICLES IN THE BUFFER SPACE OR THE ROLL AHEAD SPACE.
- 14. DRIVEWAYS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-1 SIGN (ROAD WORK AHEAD) AS A MINIMUM.
- 15. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION PROVIDED THEY COMPLY WITH MUTCD.
- 16. THE SPACING BETWEEN CONES, TUBULAR MARKERS, VERTICAL PANELS, DRUMS, AND BARRICADES SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO 1.0 TIMES THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH WHEN USED FOR TANGENT CHANNELIZATION.
- 17. WHEN CHANNELIZATION DEVICES HAVE THE POTENTIAL OF LEADING VEHICULAR TRAFFIC OUT OF THE INTENDED VEHICULAR TRAFFIC SPACE, THE CHANNELIZATION DEVICES SHOULD BE EXTENDED A DISTANCE IN FEET OF 2.0 TIMES THE SPEED LIMIT IN MPH BEYOND THE DOWNSTREAM END OF THE TRANSITION AREA,
- 18. TAPER LENGTHS ARE CALCULATED AS FOLLOWS: L= WS²/60 (40 MPH AND HIGHER) OR L2= WS (OVER 40 MPH), WHERE W= OFFSET WIDTH (FT), S= TRAFFIC SPEED (MPH).





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

PROJECT NO: ER600221

DRAWN BY: C. O'DELL

CHECKED BY: W. WOODS

E 11.09.17 UPDATE UE RELAY
D 11.06.17 UPDATE POLE HIGT. & TEMPLATE
C 08.18.17 CHANGE POLE HEIGHT
B 08.08.17 POLE HEIGHT REVISION
A 06.29.17 PRELIM – NOT FOR CONSTRUCTION



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> > SHEET TIT

PEDESTRIAN SAFETY PLAN

SHEET NUMBER

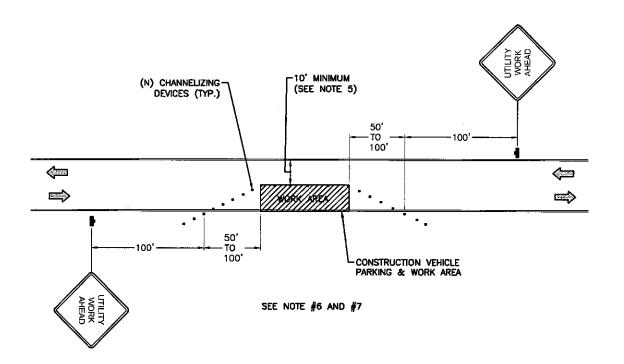
TC-2

TYPICAL PEDESTRIAN / WORKER SAFETY PLAN

SCALE: NOT TO SCALE

PLAN NOTES:

- PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE—SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRM PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFIED BY THE AUTHORITY HAVING JURISDICTION.
- 2. EXTEND CHANNELIZATION DEVICES INTO SHOULDER WHERE APPLICABLE.
- 3. DISTANCES AS INDICATED IN TABLE 1 SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING. DISTANCE SUCH AS DOWNGRADES OR LIMITED SIGHT DISTANCES. DISTANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTIAL) AREAS WITH APPROVAL BY THE AUTHORITY HAVING JURISDICTION. NIGHT-TIME WORK IS PROHIBITED UNLESS IT IS REQUIRED AS A CONDITION OF APPROVAL BY THE HIGHWAY AND LOCAL WARREST OF THE PROPERTY O AUTHORITY HAVING JURISDICTION.
- 4. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH.
- 5. MAINTAIN A MINIMUM LANE WIDTH OF 10'.
- 6. THIS LAYOUT APPLIES TO SPEEDS 30 MPH OR LESS.
- 7. THIS LAYOUT DOES NOT APPLY TO ANY STREET WITH A DOUBLE YELLOW OR WHITE CENTERLINE, OR LIMITED SITE DISTANCES



3475 PIEDMONT ROAD NE SUITE 1000

ATLANTA, GEORGIA 30305 PHONE: (312) 638-5400

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C 08.18.17 CHANGE POLE HEIGHT
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SHEET TITLE

VEHICULAR TRAFFIC CONTROL PLAN

SHEET NUMBER

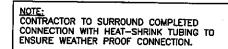
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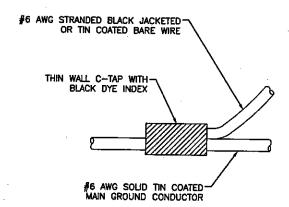
TC-1

- SIGN

VEHICULAR TRAFFIC CONTROL PLAN **LOW-SPEED RESIDENTIAL AREA**

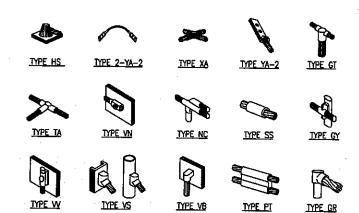
SCALE: NOT TO SCALE





C-TAP DETAIL

SCALE: NOT TO SCALE

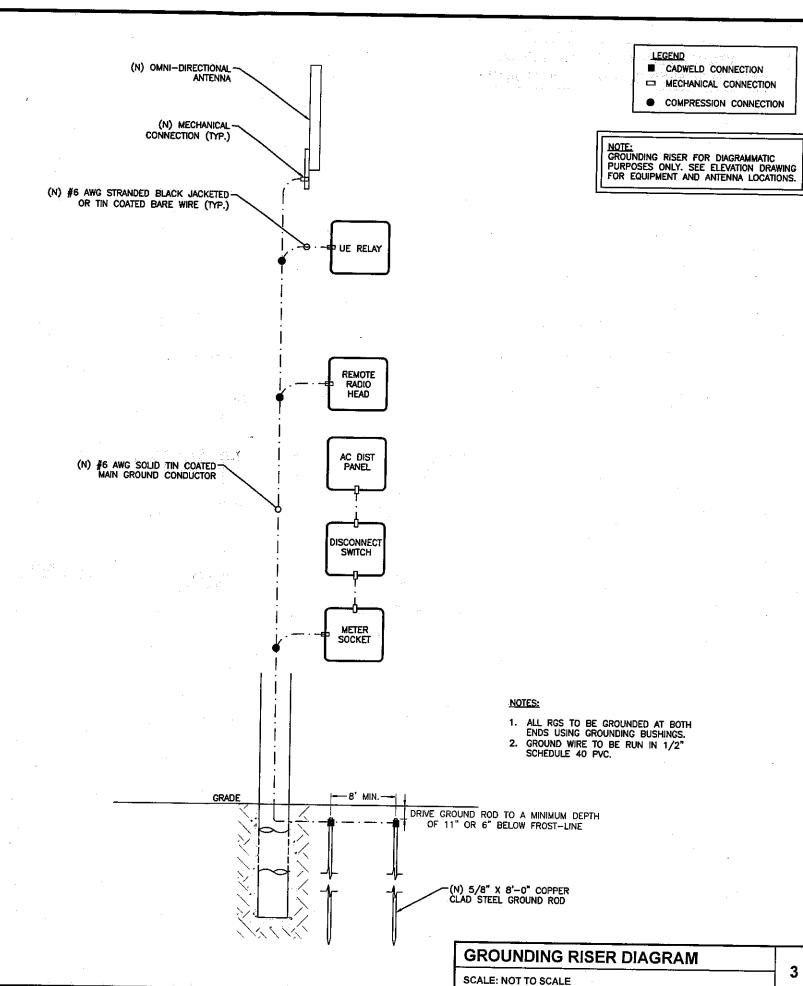


NOTE:

ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

WELD CONNECTION DETAILS

SCALE: NOT TO SCALE



3475 PIEDMONT ROAD NE SUITE 1000

ATLANTA, GEORGIA 30305

PHONE: (312) 638-5400

ERSIN221

C. O'DELL

W. WOODS

UPDATE UE RELAY

CHANGE POLE HEIGHT

POLE HEIGHT REVISION

D 11.06.17 UPDATE POLE HGT, & TEMPLATE

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NEWBURGH, NY 12550 UTILITY POLE

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

G-1

3

PROJECT NO:

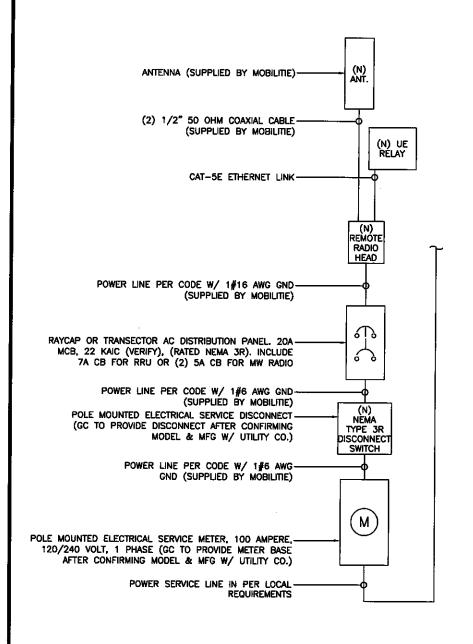
DRAWN BY:

CHECKED BY:

E 11.09.17

C 08.18.17

B 08.08.17



20A MAIN BREAKER-5A CIRCUIT BREAKER-5A CIRCUIT BREAKER-7A RADIO BREAKER-0 HOT TO RADIO TO RADIO -GROUND -ISOLATED NEUTRAL BUSBAR OUT TO RADIO -IF POWER FROM BRANCH NEUTRAL/GROUND BOND-CKT REMOVE NG BOND IN FROM UTILITY SERVICE -W/ 120/240 3 WIRE 1¢

RAYCAP AC DISTRIBUTION BOX

BREAKER SCHEDULE

SCALE: NOT TO SCALE

NOTES:

1. NOMINAL POWER IS CALCULATED AS 80% OF DEM DOCUMENTED MAXIMUM POWER.

2. CALCULATIONS FOR UE W/ NOKIA DO NOT NEED TO INCLUDE THE POWER FOR THE UE ANTENNA AS IT IS INCLUDED IN THE MAX POWER FIGURE. CALCULATIONS FOR UE W/ AIRSPAN MUST INCLUDE UE AS IT IS NOT INCLUDED

3. KVA IS CALCULATED FROM THE CONSUMPTION VALUE ASSUMING A PF=1. MAXIMUM POWER WAS USED FOR KVA. WHERE MAXIMUM WAS NOTED BY THE OEM THE QUOTED FIGURE WAS USED. WHERE AVERAGE/NOMINAL POWER WAS NOTED BY THE OEM MAXIMUM POWER WAS CALCULATED BY INCREASING AVERAGE/NOMINAL POWER BY A FACTOR OF 50%

Nokia Scenario 6 B41 High Power Radio and Nokia UE Backhaul

		Max Power	Max		
Unit	Sub Description	(W)	Current (A)	KVA	kWh/Yr
NSN - B41 High - FWHR	LTE Base Station	360	4.00	0.36	3153.6
Nokia Gemtek	UE Relay	N/A	N/A	N/A	N/A
Total		360	4.00	0.36	3153.6

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	_
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SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E-1

ELECTRICAL ONE-LINE DIAGRAM

GRADE

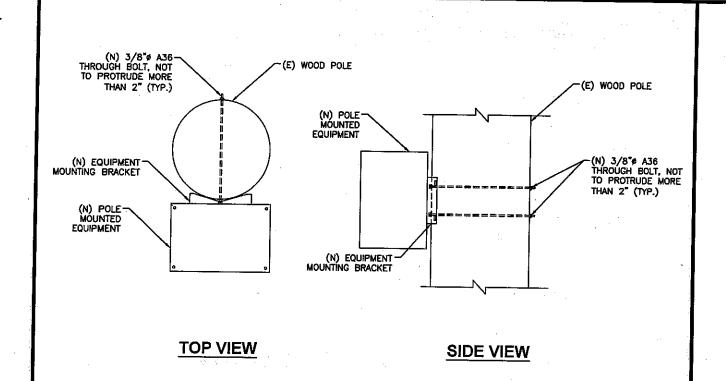
SCALE: NOT TO SCALE

LOAD CALCULATIONS

SCALE: NOT TO SCALE

3

2



(N) 1/2" COAX FROM RADIO-

TO ANTENNA (TYP.)

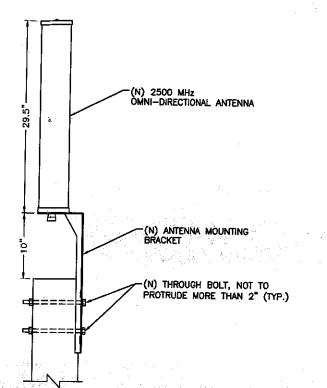
(N) TOWER STANDOFF

(N) 1/2" SNAP-IN-(VALMONT 12SH-3 OR

EQUIVALENT

EQUIVALENT)

(VALMONT STK SERIES OR



NOTE:

 MOUNTING BRACKET ACCOMMODATES POLE SIZES FROM 3" TO 10" DIAMETER.
 JACOBS HAS NOT PERFORMED A STRUCTURAL EVALUATION FOR THE MOUNTING BRACKET. REFER TO THE MANUFACTURER FOR APPLICABLE. ADDITIONAL INFORMATION.

ANTENNA MOUNTING DETAIL

Site ID

FCC ID

SCALE: NOT TO SCALE

PROJECT NO: ER600221 DRAWN BY: C. O'DELL CHECKED BY: W. WOODS

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

E 11.09.17 UPDATE UE RELAY D 11.06.17 UPDATE POLE HGT. & TEMPLATE C 08.18.17 CHANGE POLE HEIGHT B 08.08.17 POLE HEIGHT REVISION

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NY-300/UNION AVE NEWBURGH, NY 12550 UTILITY POLE

EQUIPMENT DETAILS

SHEET NUMBER

EQ-2

EQUIPMENT MOUNTING DETAIL SCALE: NOT TO SCALE

> Radio frequency fields beyond this point may exceed the FCC general public exposure limit.

> > mobilitie

ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE ON METAL POLES - ADHESIVE VINYL OR PLACARD STRAPPED WITH SS TIES ON CONCRETE / COMPOSITE - PLACARD STRAPPED WITH SS TIES
SIGN PLACEMENT:
AFFIX TO THE STRUCTURE 3-4' BELOW THE COMMERCIAL RF ANTENNA(S)
SIZE APPROX. 8" x 5"

ANTENNA SIGNAGE

OWNER / OPERATOR NOTE: SITE ID LABEL TO BE AFFIXED AT OR NEAR THE POINT OF POWER CONNECTION WITH TZeS241

LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA—STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT

Mobilitie, LLC

In case of Emergency Contact E-mail: MNOC@mobilitie.com

Phone: (877) 244-7889

Please Reference Site ID

9NYB007805A

EMERGENCY CONTACT SIGN

CABLE MOUNTING DETAIL

(E) POLE

(N) STAINLESS STEEL BANDING (TYP.)

MANUFACTURED BY BAND-IT #C204B9. 1/2" WITH C45499 BUCKLES, OR APPROVED EQUAL

SCALE: NOT TO SCALE

NOTE: SPACE SNAP-INS PER CABLE MANUFACTURER'S SPECIFICATIONS

2

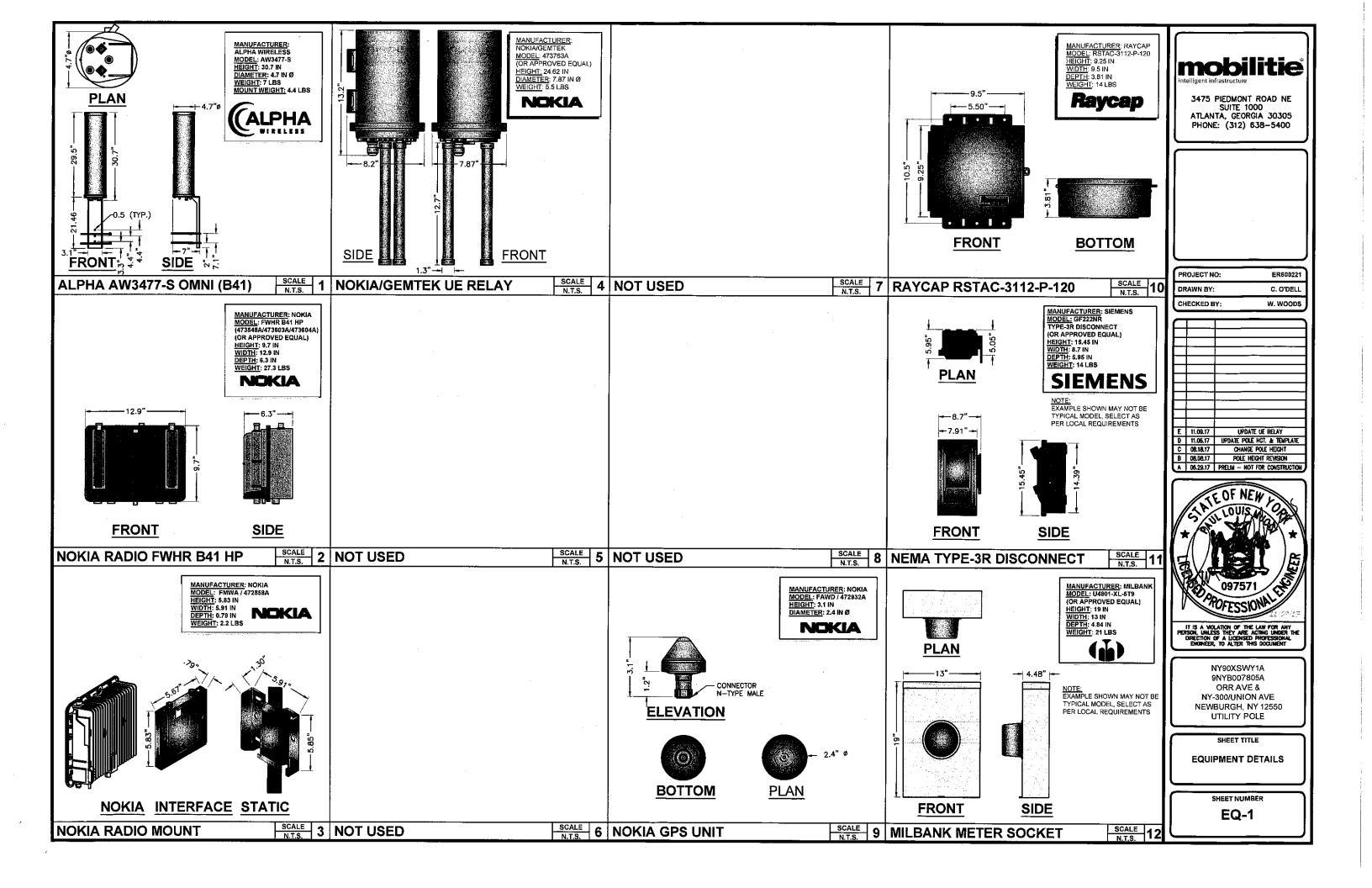
POLE MOUNTED SIGNS

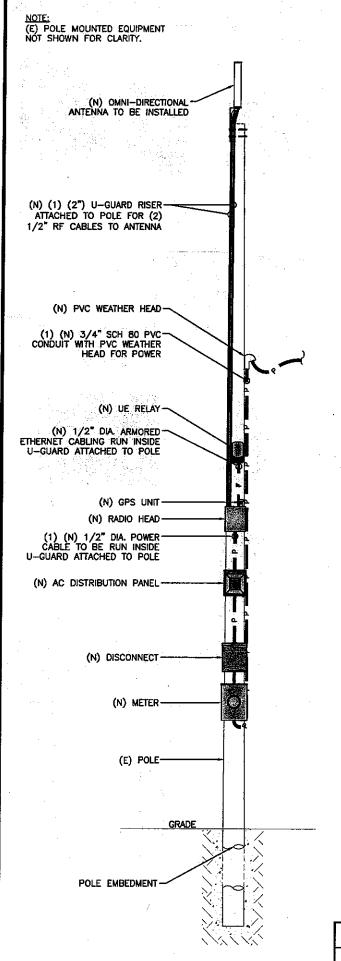
SCALE: NOT TO SCALE

Obey all posted signs and site guidelines for working in radio frequency environments. SITE ID: 9NYB007805A Contact 877-244-7889

3

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NOTE:
CABLING DIAGRAM IS FOR CLARITY OF
CABLE ROUTE AND TERMINATION ONLY.
CONTRACTOR SHALL INSTALL CABLES
WITH MINIMAL VISUAL IMPACT ON (E)
WOOD POLE. SEE ELEVATION DRAWING
FOR EQUIPMENT AND ANTENNA
LOCATIONS.

CABLING NOTES:

- A) WOOD, CONCRETE AND EXISTING METALLIC POLES

 I) FROM GRADE LINE TO 11'-0" ABOVE GRADE, ALL
 CABLES/CONDUCTORS EXCEPT GROUNDING CONDUCTOR
 MUST RUN IN RIGID GALVANIZED STEEL CONDUIT (RGS)
- II) GROUNDING CONDUCTORS IN EXPOSED LOCATIONS MUST BE INSTALLED IN PVC.
- III) IN EARTH INSTALL PVC CONDUIT FOR BACKHAUL AND ELECTRICAL SERVICE. TRANSITION TO RGS AT GRADE LINE.
- IV) ABOVE 11'-O" ALL CABLES (POWER, ETHERNET, COAXIAL) MUST RUN IN PVC UTILITY POLE RISER.
- (1) AT MAJOR EQUIPMENT, EXTEND UTILITY DUCT IMMEDIATELY ADJACENT TO THE EQUIPMENT, INSTALL CABLES IN THE UTILITY POLE RISER CREATING CABLE DRIP LOOPS NOT LESS THAN THE CABLE BENDING RADIUS.
- (2) INSIDE THE UTILITY POLE RISER, UTILIZE 1/2" COAX BLOCKS WITH LAG SCREWS TO SUPPORT COAX, RADIO AND MW POWER, RF COAX, AND ETHERNET CABLES TO WITHIN 12" OF THE EQUIPMENT BEING SERVED AND ON INTERVALS NOT TO EXCEED 4".
- V) FOR UNDERGROUND HFC/PUBLIC BACKHAUL, ROUTE ETHERNET CABLE IN CONDUIT UP THE POLE AND ENTER THE UTILITY POLE RISER. SEAL EXPOSED END OF CONDUIT WITH A CABLE TERMINATION FITTING.
- VI) BY APPROVAL IN SELECT CASES LIQUID—TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN LENGTHS NOT TO EXCEED 36" TO EXTEND THE ELECTRICAL SERVICE CONDUIT TO THE AC DISTRIBUTION BOX. EXAMPLE: UTILITY—REQUIRED DISCONNECT ON POLE W/ AC DISTRIBUTION BOX ON OPPOSITE SIDE OF POLE. NOT REQUIRED FOR COAX.
- B) NEW METALLIC POLES
- I) PROCURE NEW POLES WITH SUITABLE HAND HOLES SUCH THAT HAND HOLES EXIST AT ALL EQUIPMENT LOCATIONS.
- II) WHERE REQUIRED, INSTALL POLE BASE SUCH THAT THE ELECTRICAL FEED AND BACKHAUL (IF UNDERGROUND) CIRCUIT ENTER THE POLE THROUGH THE POLE BASE.

		1 14	BILL OF MATERIALS				
QTY.	DESCRIPTION	MANUFACTURER	MODEL NUMBER	AZIMUTH	CABLE	DIMENSIONS (HxWxD)	WEIGHT
1	ANTENNA	ALPHA WIRELESS	AW3477-S	TBD	18'-2"±	30.7" X 4.7" DIAMETER	7 LBS
1	UE RELAY	NOKIA/GEMTEK	FTHC/473763A	TBD	3'±	24.62" X 7.87" DIAMETER	5.5 LBS
<u> </u>			= 12.7	-	. –] 141 <u>—</u> .	_
1	GPS	NOKIA	FAWD/472932A	-	_	3.1" X 2.1" DIAMETER	0.3 LBS
1	RADIO	NOKIA	FWHR 841 HP	- T	3'±	9.7" X 12.9" X 6.3"	27.3 LBS
		-	-	<u> </u>	_	_	_
1	AC DISTRIBUTION PANEL	RAYCAP	RSTAC-3112-P-120		1'±	9.25" X 9.5" X 3.81"	14 LBS
1	NEMA TYPE-3R DISCONNECT	SIEMENS	GF222NR (EXAMPLE)	1	1'±	15.45" X 8.7" X 5.95"	14 LBS
1	METER SOCKET	MILBANK	U4801-XL-5T9 (EXAMPLE)	1 -	53'±	19" X 13" X 4.84"	21 LBS

RFDS REVISION TYPE: NOT FINAL RFDS REVISION NUMBER: N/A RFDS REVISION TIMESTAMP: N/A

BILL OF MATERIALS

SCALE: NOT TO SCALE

PROJECT NO: ER600221
DRAWN BY: C. O'DELL
CHECKED BY: W. WOODS

2

mobilitie

3475 PIEDMONT ROAD NE SUITE 1000 ATLANTA, GEORGIA 30305

PHONE: (312) 638-5400

E 11.09.17 UPDATE UE RELAY
D 11.06.17 UPDATE POLE HGT. & TEMPLATE
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NY90XSWY1A 9NYB007805A ORR AVE & NY-300/UNION AVE NEWBURGH, NY 12550 UTILITY POLE

SHEET TITLE

PLUMBING & RISER DIAGRAM

SHEET NUMBER

PL-1

(N) DISCONNECT	
(N) AC POWER DISTRIBUTION	w-
(N) (1) 3/4" CONDUIT FOR POWER, CLAMPED TO POLI	E
(N) GROUNI	
(N) (1) 2" U-GUARD RISER FOR (2 1/2" RF CABLES TO ANTENN	
(N) UE RELª	3 5 6 72 3 5 6 72 3 7 10 10 1
(N) OMNI DIRECTIONAL ANTENNA	30" X 30" CLIMB SPACE
EDGE OF P	PAVEMENT

(N) METER-

(N) RADIO-

PLUMBING DIAGRAM

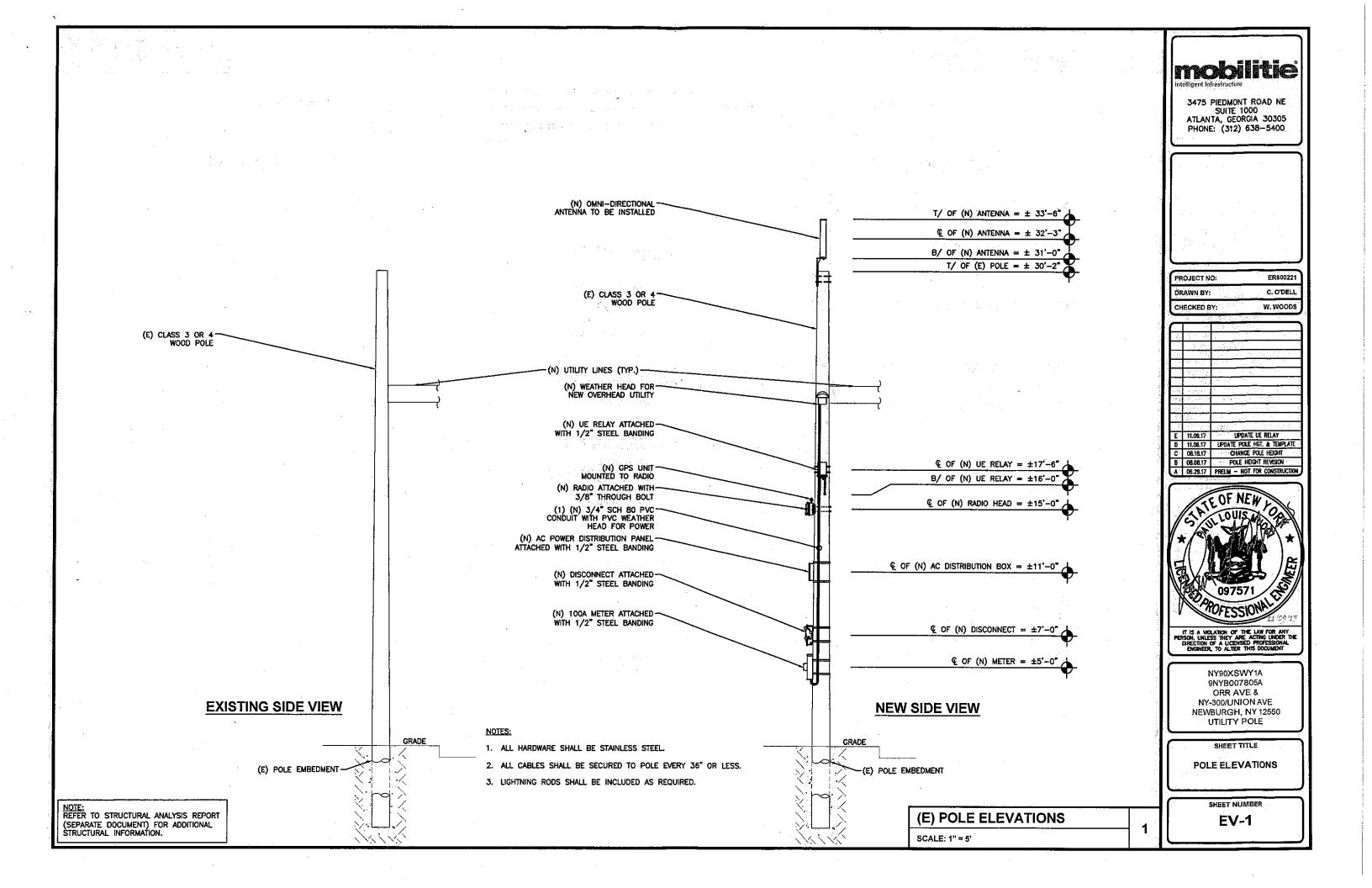
SCALE: NOT TO SCALE

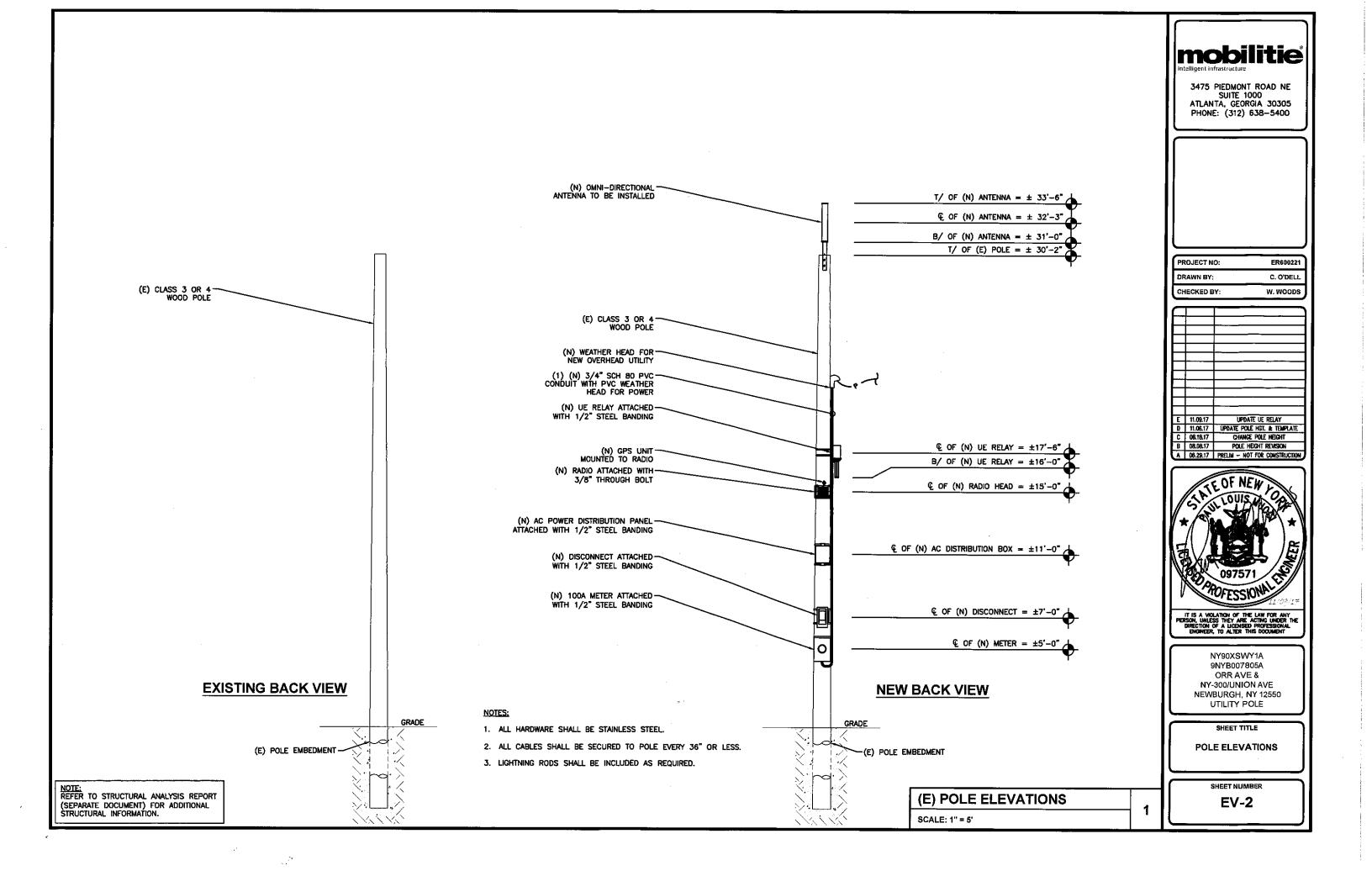
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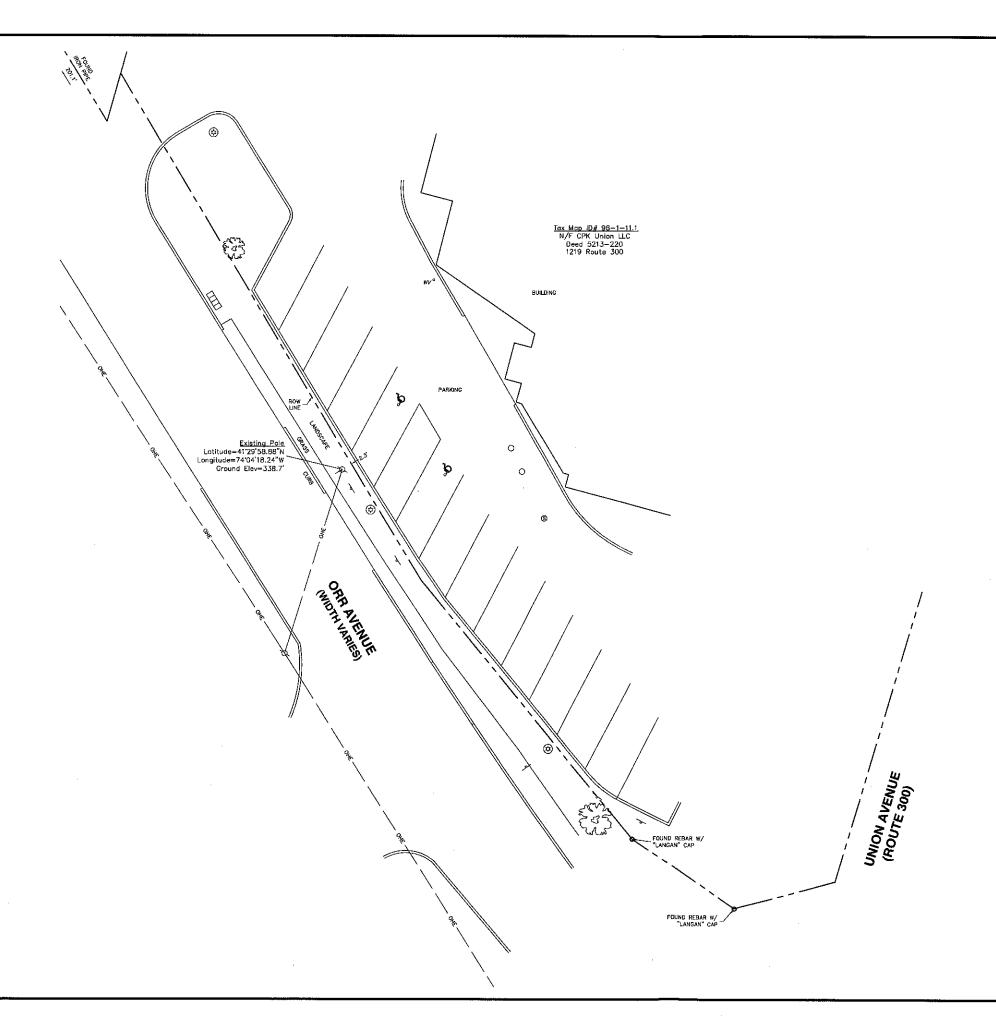
RISER ORIENTATION DIAGRAM

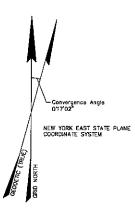
SCALE: NOT TO SCALE

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Property lines shown here on are the determination of a retracement survey
that has been performed in order to verify the direction and length of property
lines and to identify the monuments and other marks of a boundary
description of record and/or an established prior survey. This retracement
does not modify these existing records or establish new lines of ownership.
Its purpose is to report: a) the character and condition of the previous record
information and b) whether or not the retracement is corroborative of the
former record information.

4. References:
4.1. Orange County NY GIS Mapping-Town of Newburgh Tax Map 96
4.2. Deed Book 5213 Page 220
4.3. Maps 51-12 filed 3r13/2012
4.4. Mapping provided as a courtesy by Langan Engineering.

5. Survey was performed without the benefit of a Title Report and is subject to the lindings of such.

Utilities shown hereon are per surface evidence. No additional underground utility investigation was performed.

GRAPHIC SCALE

(EN FEET)
1 inch = 10 ft.
(11x17 = Holf Scole)

Based on field work performed October 2017.

Datum (Established with GPS)
 Horizontal: NAD83, New York East State Plane Vertical; NAVD88 (Geold12a)

____x ___x ____x ____

Gas Valve Water Valve Monitor Well

Hydrani Boliski Welland Flag

o ₩V o MW D BOL

Legend

Gas Line Communication Lin

Overhead Wire Sanitary Sewer Storm Drain

Property Line Contour

Metal Fence Wood Fence

fron Pipe or Bar Manhola Utility Poin Deckloous Tree

Evergreen Tree

Notes

Trea Line





3471 US Highway 9. Unit 109, Valetic, NY 12189 (513) 227-0097 WWW.SUFV-B.COM

=	SUED S&S SURVEY
A 11/06/17 D	
Z 11/00/17 K	W & NOTES REVISED
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SITE NUMBER

NY90XSWY1A

SITE ADDRESS

1219 Route 300 Newburgh, NY 12550 Town of Newburgh Orange County

SHEET TITLE

Existing Conditions Survey

CLS JOB # 17028 SHEET NUMBER

S1