Docket #6 BAR #2020-00122 Parker-Gray District May 6, 2020

ISSUE:	Certificate of Appropriateness for alterations (small cell antenna)
APPLICANT:	Cellco Partnership dba Verizon Wireless
LOCATION:	Parker-Gray District Dominion Energy utility pole in right-of-way near 1224 Princess Street
ZONE:	RB/Residential Townhouse Zone

#### **STAFF RECOMMENDATION**

Staff recommends approval of the Certificate of Appropriateness, as submitted.

#### **GENERAL NOTES TO THE APPLICANT**

- 1. ISSUANCE OF CERTIFICATES OF APPROPRIATENESS AND PERMITS TO DEMOLISH: Applicants must obtain a copy of the Certificate of Appropriateness or Permit to Demolish PRIOR to applying for a building permit. Contact BAR Staff, Room 2100, City Hall, 703-746-3833, or preservation@alexandriava.gov for further information.
- 2. APPEAL OF DECISION: In accordance with the Zoning Ordinance, if the Board of Architectural Review denies or approves an application in whole or in part, the applicant or opponent may appeal the Board's decision to City Council on or before 14 days after the decision of the Board.
- 3. COMPLIANCE WITH BAR POLICIES: All materials must comply with the BAR's adopted policies unless otherwise specifically approved.
- 4. BUILDING PERMITS: Most projects approved by the Board of Architectural Review require the issuance of one or more construction permits by Department of Code Administration (<u>including signs</u>). The applicant is responsible for obtaining all necessary construction permits after receiving Board of Architectural Review approval. Contact Code Administration, Room 4200, City Hall, 703-746-4200 for further information.
- EXPIRATION OF APPROVALS NOTE: In accordance with Sections 10-106(B) and 10-206(B) of the Zoning Ordinance, any official Board of Architectural Review approval will expire 12 months from the date of issuance if the work is not commenced and diligently and substantially pursued by the end of that 12month period.
- HISTORIC PROPERTY TAX CREDITS: Applicants performing extensive, certified rehabilitations of historic properties may separately be eligible for state and/or federal tax credits. Consult with the <u>Virginia</u> <u>Department of Historic Resources (VDHR)</u> prior to initiating any work to determine whether the proposed project may qualify for such credits.

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#### I. <u>APPLICANT'S PROPOSAL</u>

The applicant is requesting a Certificate of Appropriateness to replace the existing wood pole in the right-of-way in front of the parcel at 1224 Princess Street.

- The existing 25'-2" high pole will be replaced with a new 27'-9" high pole located approximately two feet from the existing pole.
- Install a 5G small cell facility measuring approximately 3'-0" high on top of the pole.
- Install a Verizon wireless meter box and center panel on the pole, starting at 5'-0" from grade.
- The 5G Nokia facility will have an array of three antennas pointing in different direction with a cubic volume of 5 CF.
- The volume of the other equipment is .5 CF.
- All features of the wireless facility will be color matched to the pole.
- All existing utilities on the pole will be relocated to the new pole.
- The existing pole will be removed after the new pole has been installed.

#### Site context

The subject pole sits at the south side of the 1200 block of Princess Street in front of a two-story commercial corner building. There is a multi-story Boys and Girls Club built ca. 1940 across the street at 401 Payne Street.

#### II. <u>HISTORY</u>

The pole will be in front of a **late 20<sup>th</sup>-century**, two-story brick commercial building at the south side of the 1200 block of Princess Street.

#### III. <u>ANALYSIS</u>

To address the growing demand for wireless services across the United States, telecommunication providers are increasing the capacity of their networks by deploying small cell wireless facilities within the public right-of-way to reduce the data traffic load on roof-mounted equipment and larger cell towers. Small cell facilities are low-powered antennas that provide wireless service coverage to a limited geographic area (often with ranges of a few hundred feet) and are used to supplement and expand the coverage provided by the traditional, larger-scale network. The next generation of small cell wireless facilities, known as 5G, is currently being installed across the city. The new 5G networks will not just serve cellphones, but also be used as general internet service providers for laptops, desktop computers, smart home digital devices, urban infrastructure monitoring, smart traffic control, remote health monitoring, emergency monitoring and notification systems, connected and autonomous vehicles, and many more applications.

In the past several years, Federal and State legislation has been enacted to further streamline the local approval process for cellular facilities, shortening the approval time and limiting jurisdictions' authority. In 2017, and again in March 2020, City Council approved amendments to the zoning ordinance to ensure compliance with these laws.

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In June 2019, the BAR approved the first small cell facilities in the historic district and shortly after adopted a BAR administrative policy for approval of certain small cell facilities (4G) in the historic districts. To date, a total of 12 small cell facilities have been approved in the historic districts, either by the BAR at public hearing or administratively by staff. City Council has recently approved license agreements for some of the wireless carriers and the City has seen a sharp increase in the number of applications for small cell facilities. Because the design of the antennas has evolved since the BAR administrative policy was adopted in June 2019, BAR staff proposed amendments to the policy to allow for more administrative approvals at the Board's April 22, 2020 electronic hearing (conducted electronically due to the Covid-19 emergency) at which time the Board tabled proposed amendments and rescinded the administrative policy. As a result, at this time all small cell facilities must now be approved by the BAR at public hearing.

A Certificate of Appropriateness is required in the historic districts under Section 10-103 (A) and 203(A) of the zoning ordinance, which state that "No building or structure shall be erected, reconstructed, altered or restored within the Parker-Gray District unless and until an application for a certificate of appropriateness shall have been approved..." BAR staff has no objection to the modestly taller pole or the installation of the small cell facility equipment in this location and finds that color matching the equipment and antennas the same color as the pole will help to camouflage them. The existence of utility poles and overhead wires, street signs, and light poles in the rights of way are part of the urban streetscape, and staff does not believe that the installation of the modestly taller pole with the small cell equipment and an overall height of 31'-4" will adversely impact the integrity of the historic district.

Staff recommends approval of the application, as submitted.

#### **STAFF**

Marina Novaes, Historic Preservation Planner, Planning & Zoning Tony LaColla, AICP, Land Use Services Division Chief, Planning & Zoning

#### IV. <u>CITY DEPARTMENT COMMENTS</u>

Legend: C- code requirement R- recommendation S- suggestion F- finding

#### **Zoning**

- F-1 Height of the pole shall not exceed 50.00 feet without a Special Use Permit. Pole indicated on the plans show a height of 27.73 and overall height with equipment 31.33 feet
- F-2 Pole must be in the same general location as existing pole. In Compliance
- F-3 The replacement pole is not located in a manner that requires the removal of an existing tree or impacts of root zone.Tree is adjacent to current pole.

- F-4 Replacement people shall be located that meets ADA requirements that do not impede or hinder pedestrian or vehicular travel.In Compliance
- F-5 Wireless facility shall be painted to match similar infrastructure on the block or earth tone color.

Plans indicate facility to be colored brown by 3M film. (ZAP2020-0093)

Code Administration No comments received

Transportation and Environmental Services

No comments received

Alexandria Archaeology

No comments received

#### V. <u>ATTACHMENTS</u>

1 – Supplemental Materials

2 – Application for BAR2020-00122: 1224 Princess Street

BAR	Case	#
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ADDRESS OF PROJECT:						
DISTRICT: 🔲 Old & Historic Alexandria 🛛 Parker – Gray 🗌 100 Year Old Building						
TAX MAP AND PARCEL:ZONING:						
APPLICATION FOR: (Please check all that apply)						
CERTIFICATE OF APPROPRIATENESS						
PERMIT TO MOVE, REMOVE, ENCAPSULATE OR DEMOLISH (Required if more than 25 square feet of a structure is to be demolished/impacted)						
WAIVER OF VISION CLEARANCE REQUIREMENT and/or YARD REQUIREMENTS IN A VISION CLEARANCE AREA (Section 7-802, Alexandria 1992 Zoning Ordinance)						
WAIVER OF ROOFTOP HVAC SCREENING REQUIREMENT (Section 6-403(B)(3), Alexandria 1992 Zoning Ordinance)						
Applicant: Property Owner Business (Please provide business name & contact person)						
Name:						
Address:						
City: State: Zip:						
Phone: E-mail :						
Authorized Agent (if applicable): Attorney Architect						
Name: Phone:						
E-mail:						
Legal Property Owner:						
Name:						
Address:						
City: State: Zip:						
Phone: E-mail:						
<ul> <li>Yes</li> <li>No</li> <li>Is there an historic preservation easement on this property?</li> <li>Yes</li> <li>No</li> <li>If yes, has the easement holder agreed to the proposed alterations?</li> <li>Yes</li> <li>No</li> <li>Is there a homeowner's association for this property?</li> <li>Yes</li> <li>No</li> <li>If yes, has the homeowner's association approved the proposed alterations?</li> </ul>						

If you answered yes to any of the above, please attach a copy of the letter approving the project.

BAR	Case	#
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#### NATURE OF PROPOSED WORK: Please check all that apply

	NEW CONSTRUCTIO	)N						
	EXTERIOR ALTERAT	ION: Please check all that app	oly.					
	🗌 awning	fence, gate or garden wall	HVAC equipment	shutters				
	🗌 doors	🗌 windows	🗌 siding	🗌 shed				
	🗌 lighting	pergola/trellis	painting unpainted masonry					
	🗌 other							
	ADDITION							
$\square$	DEMOLITION/ENCAPSU	JLATION						
	SIGNAGE							
DES	DESCRIPTION OF PROPOSED WORK: Please describe the proposed work in detail (Additional pages may							

be attached).

#### SUBMITTAL REQUIREMENTS:

Items listed below comprise the minimum supporting materials for BAR applications. Staff may request additional information during application review. Please refer to the relevant section of the Design Guidelines for further information on appropriate treatments.

Applicants must use the checklist below to ensure the application is complete. Include all information and material that are necessary to thoroughly describe the project. Incomplete applications will delay the docketing of the application for review. Pre-application meetings are required for all proposed additions. All applicants are encouraged to meet with staff prior to submission of a completed application.

Demolition/Encapsulation : All applicants requesting 25 square feet or more of demolition/encapsulation must complete this section. Check N/A if an item in this section does not apply to your project.

N/.

Survey plat showing the extent of the proposed demonstration. Existing elevation drawings clearly showing all elements proposed for demolition/encapsulation. Clear and labeled photographs of all elevations of the building if the entire structure is proposed to be demolished.

] Description of the reason for demolition/encapsulation.

Description of the alternatives to demolition/encapsulation and why such alternatives are not considered feasible.

#### BAR Case # \_

Additions & New Construction: Drawings must be to scale and should not exceed 11" x 17" unless approved by staff. Check N/A if an item in this section does not apply to your project.

N/A	Scaled survey plat showing dimensions of lot and location of existing building and other structures on the lot, location of proposed structure or addition, dimensions of existing structure(s), proposed addition or new construction, and all exterior, ground and roof mounted
	equipment. FAR & Open Space calculation form.
	Clear and labeled photographs of the site, surrounding properties and existing structures, if applicable.
	Existing elevations must be scaled and include dimensions. Proposed elevations must be scaled and include dimensions. Include the relationship to adjacent structures in plan and elevations.
	Materials and colors to be used must be specified and delineated on the drawings. Actual samples may be provided or required.
	Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
	For development site plan projects, a model showing mass relationships to adjacent properties and structures.

**Signs & Awnings:** One sign per building under one square foot does not require BAR approval unless illuminated. All other signs including window signs require BAR approval. Check N/A if an item in this section does not apply to your project.

N/A	
	Linear feet of building: Front:Secondary front (if corner lot):
	Square feet of existing signs to remain:
	Photograph of building showing existing conditions.
	Dimensioned drawings of proposed sign identifying materials, color, lettering style and text.
	Location of sign (show exact location on building including the height above sidewalk).
	Means of attachment (drawing or manufacturer's cut sheet of bracket if applicable).
	Description of lighting (if applicable). Include manufacturer's cut sheet for any new lighting

fixtures and information detailing how it will be attached to the building's facade.

Alterations: Check N/A if an item in this section does not apply to your project.

N/A	
	Clear and labeled photographs of the site, especially the area being impacted by the alterations,
	all sides of the building and any pertinent details.

	Manufacturer's specifications for materials to include, but not limited to: roofing, siding, wind	ows,
	doors, lighting, fencing, HVAC equipment and walls.	

	Drawings accurately representing the changes to the proposed structure, including materials and
	overall dimensions. Drawings must be to scale.

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Historic elevations or photographs should accompany any request to return a structure to an earlier appearance.

ALL APPLICATIONS: Please read and check that you have read and understand the following items:

- I have submitted a filing fee with this application. (Checks should be made payable to the City of Alexandria. Please contact staff for assistance in determining the appropriate fee.)
- I understand the notice requirements and will return a copy of the three respective notice forms to BAR staff at least five days prior to the hearing. If I am unsure to whom I should send notice I will contact Planning and Zoning staff for assistance in identifying adjacent parcels.
- I, the applicant, or an authorized representative will be present at the public hearing.
- I understand that any revisions to this initial application submission (including applications deferred for restudy) must be accompanied by the BAR Supplemental form and revised materials.

The undersigned hereby attests that all of the information herein provided including the site plan, building elevations, prospective drawings of the project, and written descriptive information are true, correct and accurate. The undersigned further understands that, should such information be found incorrect, any action taken by the Board based on such information may be invalidated. The undersigned also hereby grants the City of Alexandria permission to post placard notice as required by Article XI, Division A, Section 11-301(B) of the 1992 Alexandria City Zoning Ordinance, on the property which is the subject of this application. The undersigned also hereby authorizes the City staff and members of the BAR to inspect this site as necessary in the course of research and evaluating the application. The applicant, if other than the property owner, also attests that he/she has obtained permission from the property owner to make this application.

#### **APPLICANT OR AUTHORIZED AGENT:**

Signature:	Qoshua Schakola
·	1
Printed Name:	

Date:

#### OWNERSHIP AND DISCLOSURE STATEMENT Use additional sheets if necessary

<u>1. Applicant.</u> State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name	Address	Percent of Ownership
1.		
2.		
3.		

2. <u>Property.</u> State the name, address and percent of ownership of any person or entity owning an interest in the property located at \_\_\_\_\_\_(address), unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name	Address	Percent of Ownership
1.		
2.		
3.		

3. <u>Business or Financial Relationships.</u> Each person or entity listed above (1 and 2), with an ownership interest in the applicant or in the subject property is required to disclose **any** business or financial relationship, as defined by Section 11-350 of the Zoning Ordinance, existing at the time of this application, or within the12-month period prior to the submission of this application with any member of the Alexandria City Council, Planning Commission, Board of Zoning Appeals or either Boards of Architectural Review.

Name of person or entity	Relationship as defined by Section 11-350 of the Zoning Ordinance	Member of the Approving Body (i.e. City Council, Planning Commission, etc.)
1.		
2.		
3.		

NOTE: Business or financial relationships of the type described in Sec. 11-350 that arise after the filing of this application and before each public hearing must be disclosed prior to the public hearings.

As the applicant or the applicant's authorized agent, I hereby attest to the best of my ability that the information provided above is true and correct.

Date

<u>Joshua Schakola</u> Signature

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<ul> <li>PROCEED NITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY TIEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.</li> <li>THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURERS/ VENDOR'S SPECIFICATIONS IND ADDENDIFIERWISE NOTED OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.</li> <li>THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDIFIES OF THE UPDATED STUDY VED WITH THE PROJECT.</li> <li>THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE FROLECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PORTIONS OF THE WORK UNDER THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVINENCE ALL PERMITS AND INSPECTIONS ONLONG THE WORK UNDER THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVINING ALL PERMITS AND INSPECTIONS ONLONGER THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.</li> <li>THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO FRONCENCY SHALL MAKE NECESSARY PROVISIONS TO FRONCENCY SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS CLEARING CONSTRUCTION, UPON CONTRUCTION ON OR ABOUT THE TROPHENTY.</li> <li>THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DEBRIST, TRASH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. DETAILS OF EQUIPMENT THE PROPERTY.</li> <li>THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DEBREST, TRASH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. DETAILS ON COMPLETION OF THE PROPERTY. DETAILS ON COMPLETION OF THE PROPERTY. DETAILS ON COMPLETION OF THE PROPERTY. DETAILS ON</li></ul>	5.	THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN
<ul> <li>MATERIALS ACCORDING TO THE MANUFACTURER'S/ VENDOR'S SPECIFICATIONS UNLESS OTHERWISE NOTED OR MHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.</li> <li>THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION OF UMENTS AT THE PUBLIC UPATED WITH THE RETESTION OF UMENTS AT THE PUBLIC OF A THE PREVENT REVISION AND ADDE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.</li> <li>THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PORTIONS OF THE WORK UNDER THE CONTRACTOR SHALL BORTHONS OF THE WORK UNDER THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECT RESPONSIBLE FOR ON THE SOUNTY. OR LOCAL GOVERNMENTS EASEMENTS. PAVEWENTS, CURRED DIRECT RESOLUTED UPON CONTRUCTION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DIRE TO CONSTRUCTION ON OR ABOUT THE REOPERITY.</li> <li>THE CONTRACTOR SHALL MANT HAZARD FREE DURING CONSTRUCTION ON OR ABOUT THE REOPERIST INNE ON THE REPORESING AND DISPOSE FOR ALL DEFINIST ON THE CONTRACTOR SHALL MANT HAZARD FREE DURING CONSTRUCTION ON OR ABOUT THE SECURAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION ON OR ABOUT THE REOPERIST INNES ON THE CONSTRUCTION OF REFERENCE AND DURING TO RESPONSE INTERCONTRACTOR SHALL NOTIFY THE VERIZON REPORESENTATIVE WHERE A CONTRACTOR SHALL DECT.</li> <li>THE CONTRACTOR SHALL NOTIFY THE VERIZON REPORT AND NUMBED WITH AN ADD SECOND ANY OF THE CONTRACTOR SHALL NOTIFY THE VERIZON REPORT AND INSECTION COMPLETION REPORTING CONSTRUCTION</li></ul>	6.	PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE
<ul> <li>THE LATEST REVISIONS AND ADDENDURS OR CLARFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.</li> <li>THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SQUENCES AND PROCEDURES AND POR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.</li> <li>THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS UNTICH MAY BE REQUENCES FOR THE WORK BY THE ARCHITECTIONS INTER THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.</li> <li>THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.</li> <li>THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DEBRIS, TRASH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. DETAILS OF EQUIPMENT SPECIFIED AS REMAINING ON THE PROPERTY. DETAILS OF EQUIPMENT TO BE INCLUDED IN REPOPERTY. DETAILS OF EQUIPMENT TO THE VERIZON REEQUIREMENTS AS THEY APPLY TO THIS PROJECT.</li> <li>THE CONTRACTOR SHALL NOTIFY THE VERIZON REPOPERTY DETAILS OF EQUIPMENT TO DE INCLUDED IN REPOPERTY. DETAILS OF CONFLICT ANY PORTION OF THE PROPERTY ALL PROVENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORKED AND SECOND COAT SHALL BE MARINE GALVANIZED AND SECOND COAT SHALL BE CONTRACTOR SHALL PROPERTY ALL PROPERTY LINES, ETC. ON THE JOB.</li> <li>ALL UNISTRUT, HARPWARE, AND OUTDOOR JUNC</li></ul>	٦.	MATERIALS ACCORDING TO THE MANUFACTURER'S/ VENDOR'S SPECIFICATIONS UNLESS OTHERWISE NOTED OR WHERE LOCAL CODES OR ORDINANCES TAKE
<ul> <li>PROJECT DESCRIBED HEREIN, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.</li> <li>I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQURED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.</li> <li>II. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS, CURBING, ETC. JURING CONSTRUCTION UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.</li> <li>I. THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DEBRIS, TRASH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY, DETAILS OF EQUIPMENT TO BE INCLUDED IN REQ PACKAGE, PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.</li> <li>I. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.</li> <li>I. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.</li> <li>I. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.</li> <li>I. THE CONTRACTOR SHALL NOTIFY THE VERIZON REFERESINTATIVE WHERE A CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONSTRUCT ANY PORTION OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONSTRUCT AND PORTION OF THE WORK THAT IS IN CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONSTRUCT AND PORTION DO THE DOCUMENTATION TO THE VERIZON WAREHOUSE WITHIN 14 DAYS OF PROJECT CONSTRUCT AND PORTION BOXES SHALL BE GALVANIZED.</li> <li>I. RETURN ANY UNDED MATERIALS WITH REQUIRED DOCUMENTATION TO THE VERIZON WAREHOUSE WITHIN 14 DA</li></ul>	8.	THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL
<ol> <li>THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.</li> <li>THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS EASEMENTS, PAVEMENTS, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.</li> <li>THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DEBRIS, TRASH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. DETAILS OF EQUIPMENT TO BE INCLUDED IN REA PACKAGE. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.</li> <li>THE CONTRACTOR SHALL NOTIFY THE VERIZON REQUIREMENTS AS THEY APPLY TO THIS PROJECT.</li> <li>THE CONTRACTOR SHALL NOTIFY THE VERIZON REPRESENTATIVE WHERE A CONFLICT COLORS ON ANY OF THE CONTRACTOR SHALL NOTIFY THE VERIZON REPRESENTATIVE WHERE A CONFLICT COLORS ON ANY OF THE CONTRACTOR SHALL NOTIFY THE VERIZON REPRESENTATIVE WHERE A CONFLICT ON TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE VERIZON REPRESENTATIVE.</li> <li>THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.</li> <li>ALL UNISTRUT, HARDWARE, AND OUTDOOR JUNCTION BOXES SHALL BE GALVANIZED STEEL, FOR FIELD CUTS OF GALVANIZED AND SECOND COAT SHALL BE MARINE GRADE GALVANIZED STEEL, FOR FIELD CUTS OF GALVANIZED AND SECOND COAT SHALL BE COLD GALVANIZED AND SECOND COAT SHALL BE COLD GALVANIZED THEMS, FIRST COAT SHALL BE COLD GALVANIZED AND SECOND COAT SHALL BE COLD GALVANIZED THEY, FIRST COAT SHALL BE COLD GALVANIZED THENS, FIRST COAT SHALL BE CONTRACTOR SHALL NATERIALS ONCE PICKED UP FROM THE WAREHOUSE.</li>     CONTRACTOR SHALL PERFORM A PUNCH WALK WITH YZW CONSTRUCTION &amp; OPERATION REPRESENTATIVE PR</ol>	9.	PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER
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<ul> <li>ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.</li> <li>16. ALL UNISTRUT, HARDWARE, AND OUTDOOR JUNCTION BOXES SHALL BE GALVANIZED STEEL. FOR FIELD CUTS OF GALVANIZED ITEMS, FIRST COAT SHALL BE COLD GALVANIZED AND SECOND COAT SHALL BE MARINE GRADE GALVANIZED.</li> <li>17. RETURN ANY UNUSED MATERIALS WITH REQUIRED DOCUMENTATION TO THE VERIZON WAREHOUSE WITHIN 14 DAYS OF PROJECT COMPLETION. RETURNED MATERIAL NEEDS TO BE ACCOMPANIED WITH AN RMA FORM AND PACKAGING REQUIREMENTS STIPULATED BY THE VZW CONSTRUCTION ENGINEER.</li> <li>18. CONTRACTOR IS RESPONSIBLE FOR STORAGE OF ALL MATERIALS PROVIDED BY VERIZON, AND IS LIABLE FOR THOSE MATERIALS ONCE PICKED UP FROM THE WAREHOUSE.</li> <li>19. CONTRACTOR SHALL PERFORM A PUNCH WALK WITH VZW CONSTRUCTION &amp; OPERATION REPRESENTATIVE PRIOR TO DECLARING CONSTRUCTION COMPLETE.</li> <li>20. GENERAL CONTRACTOR SHALL PROVIDE A IOLBS, DRY-CHEMICAL FIRE EXTINGUISHER ON SITE DURING CONSTRUCTION. UPON COMPLETION OF ALL WORK, CONTRACTOR SHALL REMOVE FIRE EXTINGUISHER FROM</li> </ul>	14.	REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED
<ul> <li>SHALL BE GALVANIZED STEEL. FOR FIELD CUTS OF GALVANIZED ITEMS, FIRST COAT SHALL BE COLD GALVANIZED AND SECOND COAT SHALL BE MARINE GRADE GALVANIZED.</li> <li>17. RETURN ANY UNUSED MATERIALS WITH REQUIRED DOCUMENTATION TO THE VERIZON WAREHOUSE WITHIN 14 DAYS OF PROJECT COMPLETION. RETURNED MATERIAL NEEDS TO BE ACCOMPANIED WITH AN RMA FORM AND PACKAGING REQUIREMENTS STIPULATED BY THE VZW CONSTRUCTION ENGINEER.</li> <li>18. CONTRACTOR IS RESPONSIBLE FOR STORAGE OF ALL MATERIALS PROVIDED BY VERIZON, AND IS LIABLE FOR THOSE MATERIALS ONCE PICKED UP FROM THE WAREHOUSE.</li> <li>19. CONTRACTOR SHALL PERFORM A PUNCH WALK WITH VZW CONSTRUCTION &amp; OPERATION REPRESENTATIVE PRIOR TO DECLARING CONSTRUCTION COMPLETE.</li> <li>20. GENERAL CONTRACTOR SHALL PROVIDE A IOLBS. DRY-CHEMICAL FIRE EXTINGUISHER ON SITE DURING CONSTRUCTION. UPON COMPLETION OF ALL WORK, CONTRACTOR SHALL REMOVE FIRE EXTINGUISHER FROM</li> </ul>	15.	
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CS-1	SITE LOCATION AND VICINITY PLAN, INDEX DRAWINGS, AND CODE ANALYSIS
C-1	SITE PLAN
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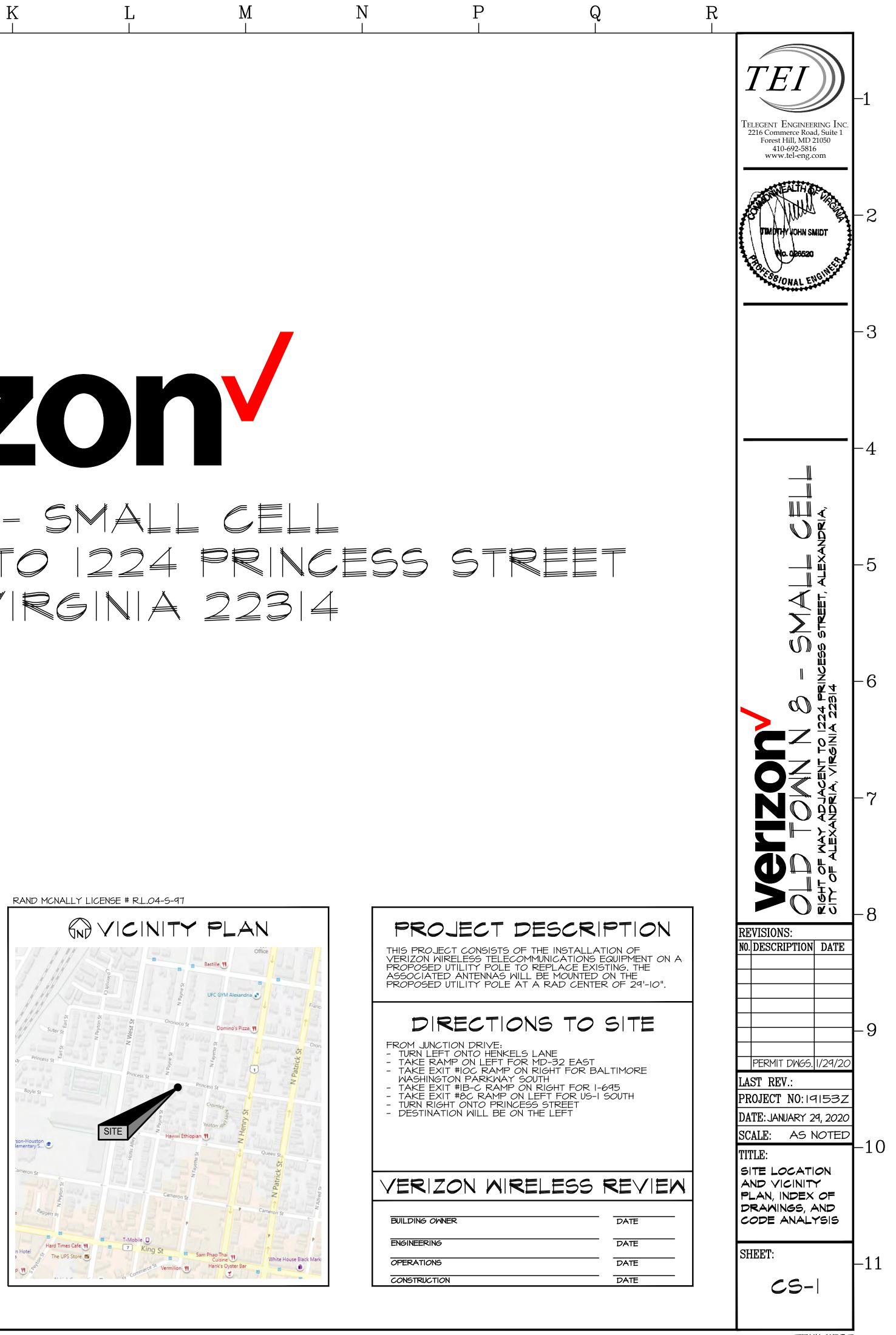
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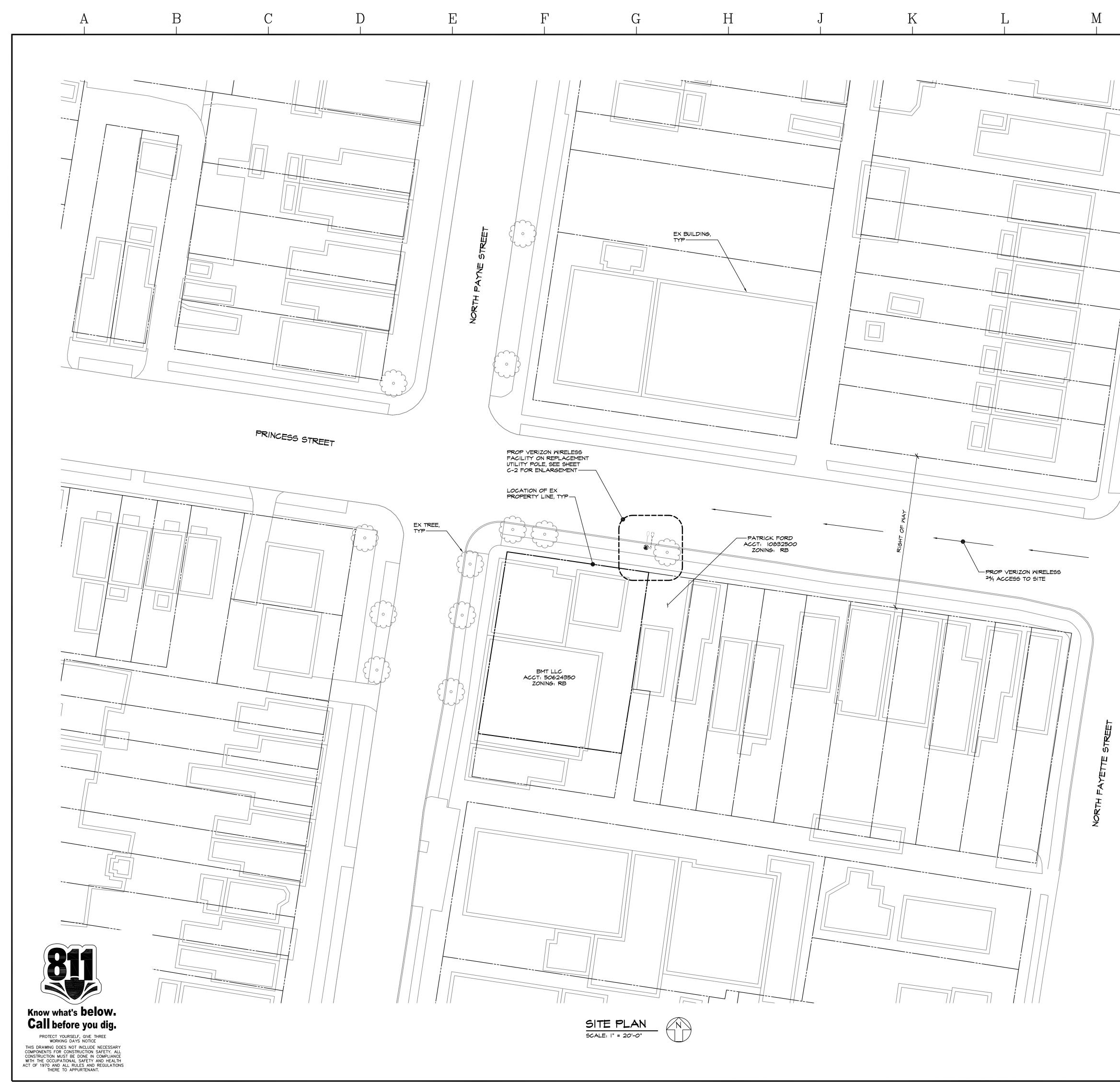
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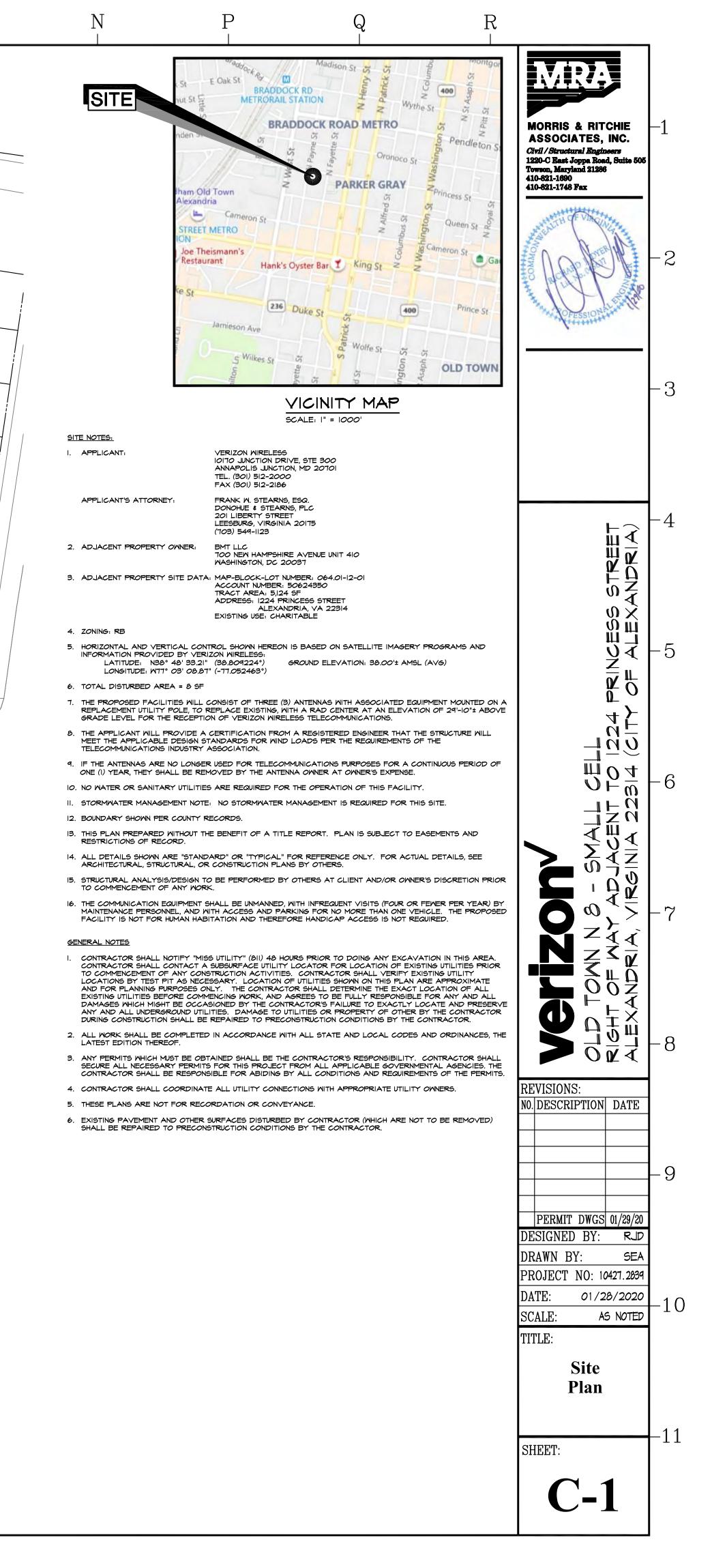
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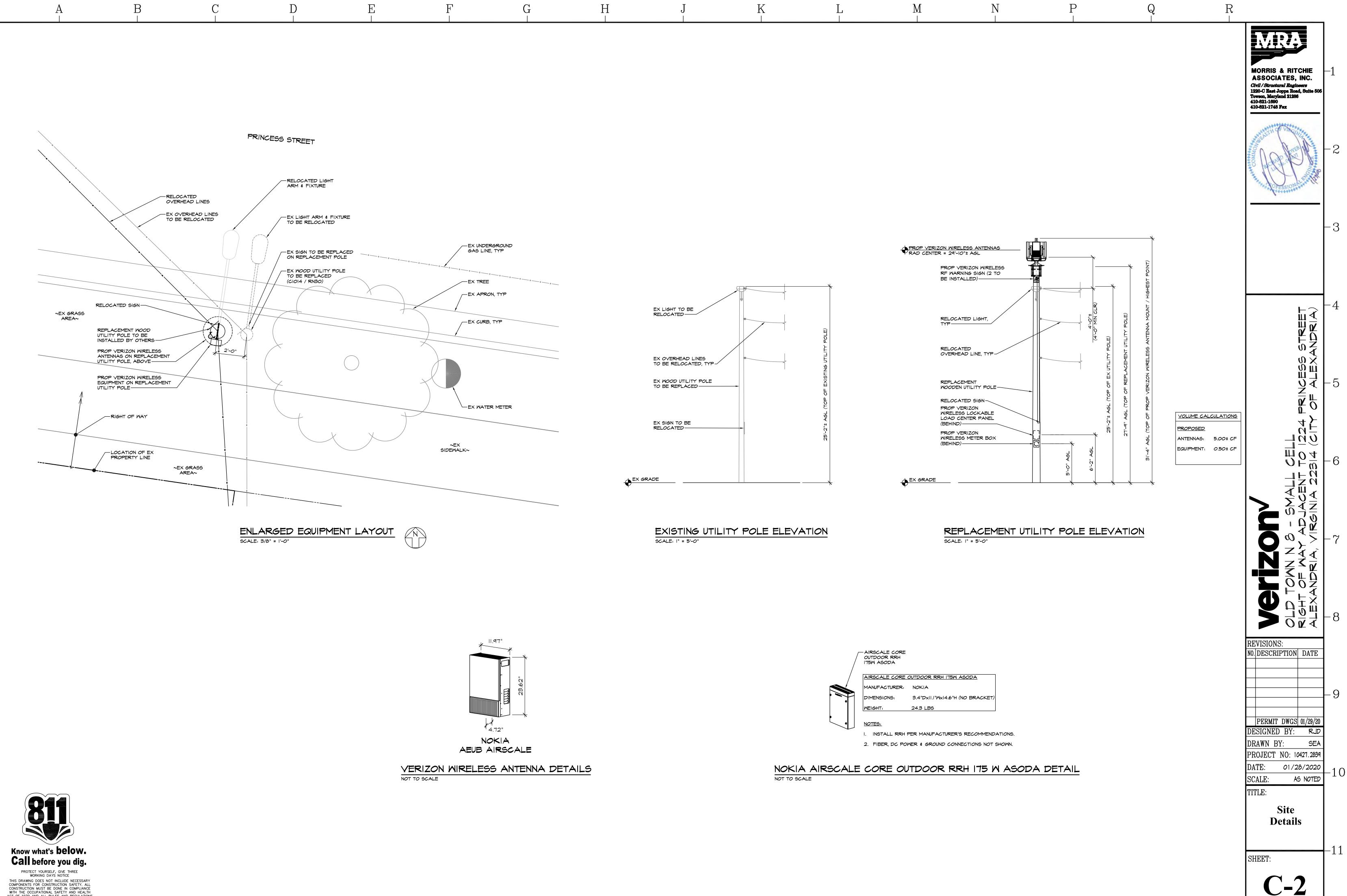
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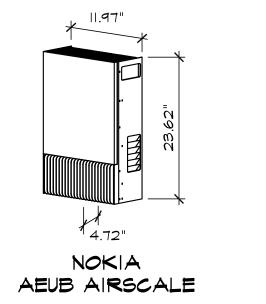


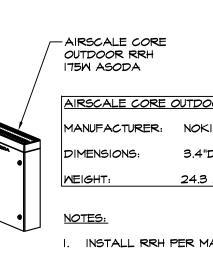












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				Т	EMPC
					WO
P	PROJECT INFORMATION				
•	. THE PROJECT'S TMP PLAN HAS BEEN DE	ESIGNED IN CONFORMANCE WITH TMP	TYPE A.		
2.	2. WORK ZONE AREAS SHALL BE SETUP AS ACCORDANCE WITH APPLICABLE TTC.	S SHOWN ON TTC'S ON THIS PLAN S	HEET. THE WORK ZONE LENG	THS AND WIDTHS MAY VARY F	BY LOCATION IN
3.	3. CONSTRUCTION HOURS: 9AM-3:30PM MO NO WORK ON NIGHTS, WEEKENDS OR HO THE WORKDAY FOLLOWING THE HOLIDAY. HOLIDAYS INCLUDE ALL STATE AND FEDE	OLIDAYS. NO LANE CLOSURES WILL B	E ALLOWED FROM NOON ON	THE DAY BEFORE A HOLIDAY	UNTIL NOON ON
1.	4. EXISTING INTERSECTIONS: THE NEAREST I	INTERSECTION IS PRINCESS ST AND 1	N PAYNE ST.		
	EXISTING PEDESTRIAN ACCESS POINTS: TI	HERE IS EXISTING SIDEWALK LOCATED	WITHIN THE PROJECT LIMITS		
	EXISTING BUS STOPS: THERE ARE NO BU	US STOPS NEAR THE PROJECT LIMITS	5.		
	EXISTING ENTRANCES: THERE ARE RESIDE	ENTIAL ENTRANCES LOCATED WITHIN T	THE CONSTRUCTION LIMITS.		
5.	5. THE TRAFFIC ON THE ROADWAY CONSIST	PRIMARILY OF PASSENGER VEHICLES	AND PEDESTRIANS. THE SUP	ROUNDING AREA IS RESIDENT	IAL.
5.	5. THE CONTRACTOR SHALL:				
	DESIGNATE A PERSON ASSIGNED TO THE TMP/SOC AND OTHER SAFETY AND MOBI DURATION OF CONSTRUCTION.			-	
	ENSURE THAT PERSONNEL IMPLEMENTING ACCORDANCE WITH VIRGINIA WORK ZONE			INSURATE WITH THEIR RESPON	NSIBILITY IN
	INFORM COUNTY OF ANY WORK REQUIRIN IMPLEMENTING THIS ACTIVITY	NG LANE SHIFTS, LANE CLOSURES, AN	ND/OR PHASE CHANGES A MI	NIMUM OF TWO WORKING DAY	rs prior to
	PERFORM REVIEWS OF THE CONSTRUCTIC DIRECTION OF COUNTY ENGINEERS. CONT				
	COORDINATE WITH CITY OF ALEXANDRIA F DETOURS OF ANY NATURE, AT NO ADDITI		EXANDRIA FIRE/RESCUE DEPA	RTMENT FOR ANY LANE CLOS	SURES AND ANY
	SCHEDULE ALL PHASES OF CONSTRUCTIC UTILITIES, AND ANY UNDERGROUND UTILIT			BER CABLE/OPTIC CABLE, AN	Y OVERHANGING
7.	7. THIS TMP PLAN IS INTENDED AS A GUID TO COUNTY FOR REVIEW AND APPROVAL.		E FROM THE APPROVED TMP	, A NEW OR REVISED TMP MU	JST BE SUBMITTED
3.	<ol> <li>CONTRACTOR SHALL ENSURE POSITIVE DE NECESSARY TO FACILITATE PROPER, POSI</li> </ol>			L ADD ANY ADDITIONAL TEMP	ORARY MEASURES
).	9. WHERE GROUP 2 CHANNELIZING DEVICES DEFINED IN THE VWAPM IS TO BE MAINT.		TRUCTION AREA AND TRAFFIC	, A MINIMUM CLEAR ZONE AR	EA SUCH AS

- 10. CONTRACTOR IS TO COORDINATE WITH CITY FOR LOCATION(S) OF THE CONSTRUCTION STAGING AREA. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND/OR EASEMENTS AS NECESSARY.
- 11. IMPLEMENTING THE TRANSPORTATION MANAGEMENT PLAN DURING THE FIRST DAY OF THE NEW WORK ZONE TRAFFIC PATTERN, THE PROJECT'S MANAGER AND CITY'S INSPECTOR SHALL INSPECT THE WORK ZONE TO ENSURE COMPLIANCE WITH THE TMP. ON THE THIRD TO FIFTH DAY OF IMPLEMENTATION OF THE TMP'S NEW WORK ZONE TRAFFIC PATTERN THE CONSTRUCTION INSPECTOR SHALL CONDUCT AN ON-SITE REVIEW OF THE WORK ZONE'S PERFORMANCE IN COORDINATION WITH COUNTY AND RECOMMEND TO THE CONTRACTOR ANY REQUIRED CHANGES TO THE TMP TO ENHANCE THE WORK ZONE'S SAFETY AND MOBILITY. ALL SUCH CHANGES SHALL BE DOCUMENTED. AN ON-SITE REVIEW OF THE PROJECT'S WORK ZONE TRAFFIC CONTROL BY THE PROJECT MANAGER AND CONTRACTOR SHALL BE CONDUCTED (WITH COORDINATION FROM COUNTY) WITHIN 48 HOURS OF ANY FATAL INCIDENT/CRASH WITHIN THE WORK ZONE.

12. PUBLIC COMMUNICATIONS PLAN

THE CONTRACTOR SHALL BE RESPONSIBLE FOR: A. NOTIFYING THE PROJECT MANAGER AND CITY INSPECTOR TWO WEEKS IN ADVANCE OF ANY SCHEDULED WORK PLANS AND TRAFFIC DELAYS. B. NOTIFYING THE PROJECT MANAGER, CITY INSPECTOR, AND CORRESPONDING COUNTY ENGINEER OF ANY UNSCHEDULED TRAFFIC DELAYS.

- 16. TRANSPORTATION OPERATIONS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND PROVIDING THE FOLLOWING: A. NOTIFY THE REGIONAL TRANSPORTATION OPERATIONS CENTER (TOC) 1 WEEK IN ADVANCE IN ORDER TO PLAN LANE CLOSURE INFORMATION ON
- THE 511 SYSTEM AND VA-TRAFFIC.
  - IMMEDIATELY REPORT ANY TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE.
  - NOTIFY THE PROJECT'S CONSTRUCTION INSPECTOR AND COUNTY ENGINEER OF ANY INCIDENTS AND EXPECTED TRAFFIC DELAYS.
- D. WITHIN 24 HOURS OF ANY INCIDENTS WITHIN THE CONSTRUCTION WORK ZONE, A REVIEW OF THE TRAFFIC CONTROLS SHALL BE COMPLETED AND NECESSARY ADJUSTMENT MADE TO REDUCE THE FREQUENCY AND SEVERITY OF ANY FUTURE INCIDENTS.

17. CONTACT NUMBERS

PROJECT MANAGER:	TBD
CITY INSPECTOR:	TBD
EMERGENCY CALL:	911

NON-EMERGENCY NUMBERS: CITY OF ALEXANDRIA POLICE: CITY OF ALEXANDRIA FIRE & RESCUE:

703-746-4444 703-746-4357

#### GENERAL CONSTRUCTION NOTES

NOTE: VWAPM VIRGINIA WORK AREA PROTECTION MANUAL (2011) INCLUDING REVISION 1 DATED 2015.

1. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS DURING BOTH WORK AND NON-WORK HOURS TO ENSURE THE PROTECTION AND SAFETY OF PEDESTRIANS, VEHICULAR TRAFFIC, AND THE GENERAL PUBLIC FROM ANY CONSTRUCTION RELATED ACTIVITY, CONSTRUCTION EQUIPMENT, AND THE CONSTRUCTION SITE ITSELF.

April 2015

# ORTATION MANAGEMENT PLAN **DRARY TRAFFIC CONTROL PLAN NOTES &** ORK AREA PROTECTION MANUAL TTC'S

**Typical Traffic Control** Stationary Operation on a Shoulder (Figure TTC-4.1) NOTES

1. For long-term stationary work (more than 3 days) on divided highways having a median wider than 8', sign assemblies on both sides of the roadway shall be required as shown (ROAD WORK AHEAD (W20-1), RIGHT SHOULDER CLOSED AHEAD (W21-5bR), RIGHT SHOULDER CLOSED (W21-5aR)<sup>1</sup>), even though only one shoulder is being closed. For operations less than 3 days in duration, sign assemblies will only be required on the side where the shoulder is being closed and a RIGHT SHOULDER CLOSED (W21-5aR)<sup>1</sup> sign shall be added to that side. Guidance

2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.

Option: 3. The SHOULDER WORK (W21-5) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area. 4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity amber rotating, flashing, or oscillating lights is used.

Standard

Page 6H-76

Standard:

Guidance:

Option:

Standard:

existing pedestrian facility.

and close sidewalks.

sidewalk to guide or direct pedestrians.

8. All sidewalk closures shall be closed with Type 3 Barricades.

Page 6H-14

5. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or oscillating, lights. 6. Taper length (L) and channelizing device spacing shall be at the following

Taper Length (L)		Channelizing [	Dev
Speed Limit	Lane Width (Feet)	Location	5

Speed Limit	Lane Width (Feet)				
(mph)	9	9 10 11 12			
25	95	105	115	125	
30	135	150	165	180	
35	185	205	225	245	
40	240	270	295	320	
45	405	450	495	540	
50	450	500	550	600	
55	495	550	605	660	
60	540	600	660	720	
65	585	650	715	780	
70	630	700	770	840	
Minimum taper lengths for Limited Access highways shall be 1000 feet.					
Shoulder Taper = 1/3 L Minimum					

all be at the following:					
Channelizing Device Spacing					
Location	Speed Li	mit (mph)			
Location	0 - 35	36 +			
Transition Spacing	20'	40'			
Travelway Spacing	40'	80'			
Construction Access* 80' 120'					
* Spacing may be increased to this distance, but shall not exceed one access per 1/4 mile.					
On roadways with pay width of 8 feet or more shall be used to c advance of the me vehicular traffic to ren way.	e, channeliz lose the s rging taper	ing device shoulder i to direc			

- 7. The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit. 8. A truck-mounted attenuator (TMA) shall be used on the shadow vehicle on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph for
- operations with a duration greater than 60 minutes. 9. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed. 1: Revision 1 – 4/1/2015

**Typical Traffic Control** 

Sidewalk Closure and Bypass Sidewalk Operation

(Figure TTC-35.0)

**NOTES** 

1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall

2. Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should

3. Audible information devices should be considered where midblock closings and changed crosswalk

5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or

6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs

7. Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary

areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

4. Temporary markings should be considered for operations exceeding three days in duration.

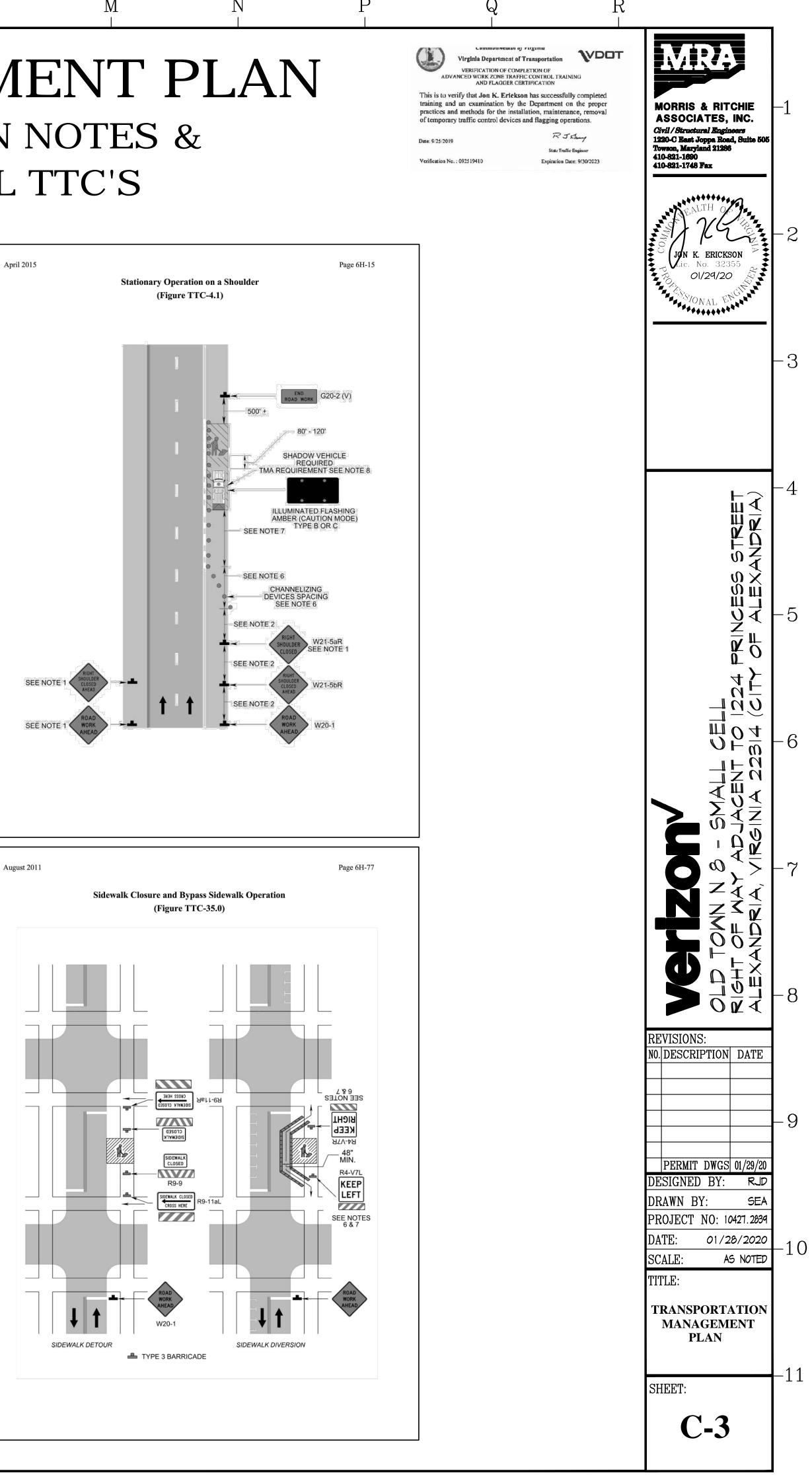
ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.

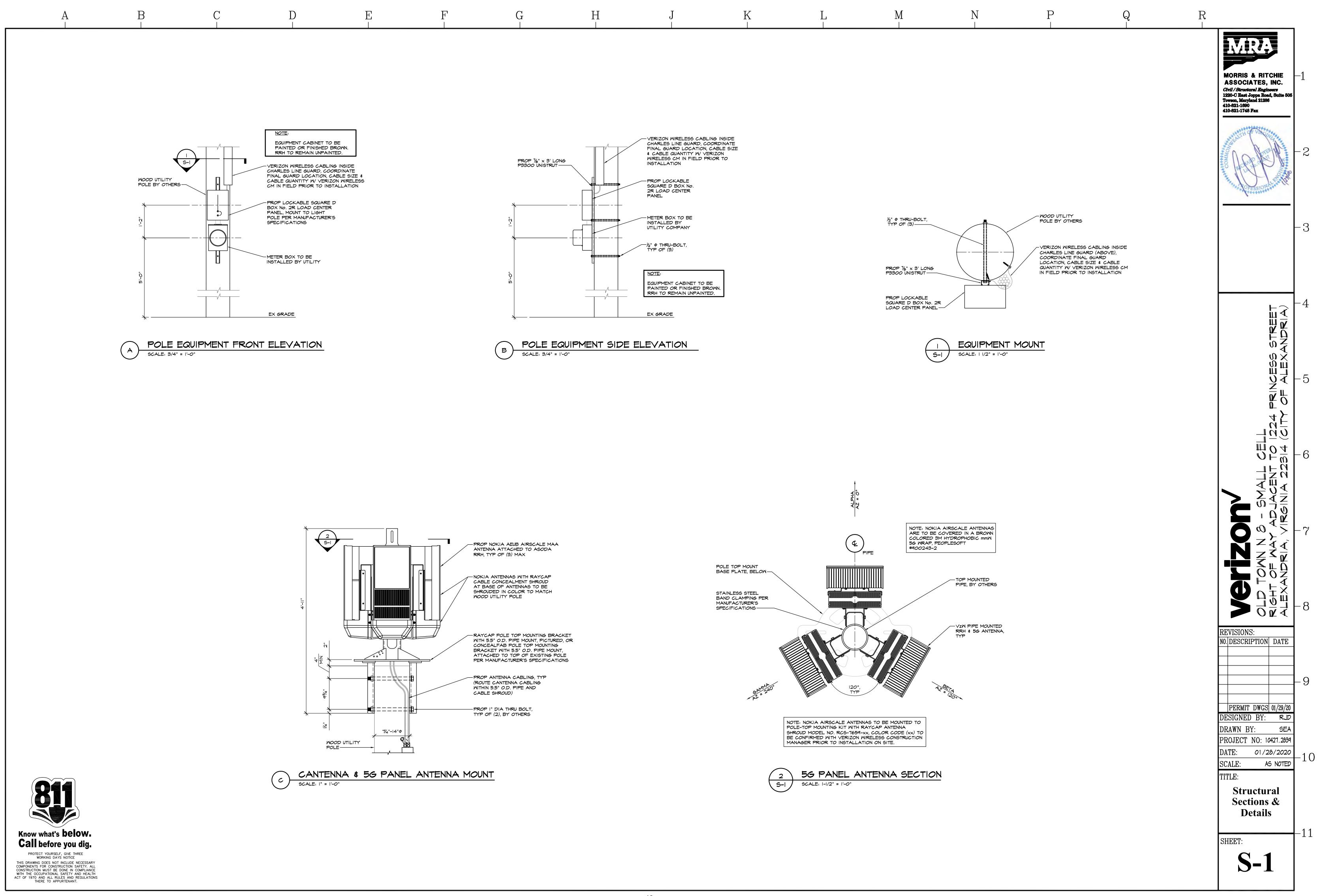
be used to separate the temporary sidewalks from vehicular traffic.

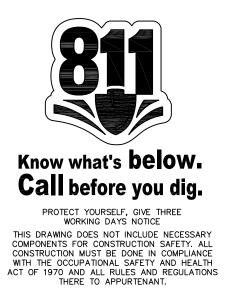
be detectable and shall include accessibility features consistent with the features present in the

August 2011

August 2011







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#### GENERAL STRUCTURAL NOTES

BUILDING CODES

- A. ALL CONSTRUCTION SHALL CONFORM WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE 2015 CONSTRUCTION CODE, THE TIA STANDARD (TIA-222-G) AND ALL SUBSEQUENT SUPPLEMENTS, THE INTERNATIONAL
- BUILDING CODE (IBC 2015) AND ALL SUBSEQUENT SUPPLEMENTS & DOCUMENTS.

B. IN ADDITION, ALL CONSTRUCTION SHALL CONFORM WITH ANY LOCAL CODES AND REQUIREMENTS. DESIGN LOADS

A. THE DESIGN DEAD LOADING FOR ALL FRAMING IS BASED ON THE CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS. ALL FRAMING IS DESIGNED FOR THE WEIGHT OF THE EQUIPMENT INDICATED ON THE DRAWINGS.

В.	WIND LOAD DESIGN DATA	
	BASIC WIND SPEED (ULTIMATE 3-SECOND GUST): BASIC WIND SPEED (NOMINAL 3-SECOND GUST): RISK CATEGORY: WIND EXPOSURE CATEGORY:	II6 MPH 90 MPH II C
C.	SEISMIC LOAD DESIGN DATA	
	NOT APPLICABLE:	5s < 1.0

MISCELLANEOUS

DRAWINGS.

- A. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR OR OWNER FOR REVIEW BY THE ENGINEER. IF THE CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE ENGINEER WILL NOT BE RESPONSIBLE FOR STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT. THE SHOP DRAWINGS SHALL INDICATE ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY.
- B. SEE CIVIL AND MEP CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS.
- C. THE CONTRACTOR SHALL NOT SUBMIT REPRODUCTIONS OF THE STRUCTURAL CONTRACT DOCUMENTS AS SHOP
- D. SCALES SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE FOR GENERAL INFORMATION ONLY.

DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.

E. APPLY DETAILS, SECTIONS AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, DETAIL TITLE OR NOTE.

#### STRUCTURAL AND MISCELLANEOUS STEEL

- A. ALL STEEL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 360) AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- B. ALL MISCELLANEOUS STEEL (CHANNELS AND PLATES) SHALL CONFORM TO ASTM A36 (Fy = 36 KSI).
- C. ALL HSS SQUARE OR RECTANGULAR SHAPES SHALL CONFORM TO ASTM A500, GRADE B (FY = 46 KSI).
- D. ALL PIPES SHALL CONFORM TO ASTM A53, GRADE B (Fy = 35KSI)
- E. ALL THRU BOLTS SHALL CONFORM TO ASTM A307 (FU = 60 KSI).
- F. ALL NUTS SHALL CONFORM TO ASTM A563. ALL WASHERS SHALL CONFORM TO ASTM F436.
- G. ALL SHOP WELDS SHALL BE PERFORMED BY CERTIFIED WELDERS AND CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AWS DI.I. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED UNLESS OTHERWISE INDICATED.
- H. AN INDEPENDENT INSPECTION AGENCY SHALL INSPECT ALL STRUCTURAL STEEL AND VERIFY THAT IT CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. FIELD INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 5 DAYS OF THE INSPECTION. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY OF ALL PHASES OF STEEL CONSTRUCTION AND WELDING.
- I. STEEL MEMBERS, FABRICATIONS AND ASSEMBLIES EXPOSED TO WEATHER OR INDICATED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM AI23 AFTER FABRICATION. ALL BOLTS, SCREWS, WASHERS & NUTS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM F2329.
- J. PROVIDE HOLES IN STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1-1/6" DIA. AND SHALL BE GROUND SMOOTH. THESE DRAINS MUST BE KEPT CLEAN AND OPEN.
- K. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING THE SIZES, EXTENT, AND LOCATION OF ALL STRUCTURAL AND MISCELLANEOUS STEEL FRAMING INCLUDING ALL CONNECTIONS, FASTENERS, AND BEARINGS.
- L. SHOW ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE STRUCTURAL ENGINEER.

#### DOMINION NOTES:

- A. A 9"XII" RF NOTICE SIGN MUST BE INSTALLED ON BOTH SIDES OF THE POLE A MINIMUM OF ONE FOOT ABOVE THE UPPERMOST ELECTRIC SUPPLY FACILITIES. THIS SIGN MARKS THE POINT WHERE RF EXPOSURE LEVELS MAY EXCEED "FCC OET-65 APPENDIX A" LIMITS FOR UNCONTROLLED GENERAL POPULATION EXPOSURE. WORKING ABOVE THIS POINT REQUIRES DE-ENERGIZING THE ANTENNA. THIS SIGN MUST INCLUDE THE STANDARD RF SYMBOL AND STATE "NON RF WORKERS MUST POWER DOWN DEVICE WHEN WORKING ABOVE THIS POINT." THE SIGN SHALL BE 60 MIL LEXAN WITH U.V. INHIBITORS AND SIGNS SHALL ADHERE TO IEEE C95.2 STANDARDS.
- B. A POWER DISCONNECT MUST BE INSTALLED. THIS DEVICE MUST PROVIDE DISCONNECTING MEANS FOR DE-ENERGIZING AC AND DC (BATTERY BACK UP) POWER TO THE ANTENNA. THE DISCONNECT SHOULD BE A STANDARD NEMA TYPE HINGED ENCLOSURE AND IS SUBJECT TO COMPANY APPROVAL. THE DISCONNECT SHALL BE CLEARLY LABELED AS THE ANTENNA POWER DISCONNECT.
- C. AN ADDITIONAL RF LABEL ON THE EQUIPMENT MUST INCLUDE COMMUNICATION COMPANY NAME, AND A 24-HR CONTACT PHONE NUMBER. THE LABEL SHALL ADHERE TO IEEE C95.2 STANDARDS.
- D. THE ANTENNA SHALL BE MOUNTED THE GREATER VALUE OF NESC MINIMUM CLEARANCE OR THE MINIMUM CLEARANCE REQUIRED TO MEET OET UNCONTROLLED EXPOSURE GUIDELINES AT A POINT I' ABOVE THE ELECTRIC FACILITIES. THE ANTENNA INCLUDING ATTACHING HARDWARE SHALL BE MOUNTED A MINIMUM OF 45" ABOVE PRIMARY INSTALLATIONS AND 40" ABOVE SECONDARY INSTALLATIONS. (NESC TABLE 238-I)
- E. ANTENNA EQUIPMENT IS PERMISSIBLE ON WOOD POLES ONLY.
- F. ONLY NON METALLIC ELECTRIC GRADE CONDUIT OR RISERS CAN BE USED FOR ROUTING THE COMMUNICATION CABLES THROUGH THE SUPPLY SPACE. THE CONDUIT INSTALLATION SHALL NOT OBSTRUCT THE CLIMBING SPACE OR WORKING SPACE ON THE POLE AND SHALL NOT OBSTRUCT SUPPLY EQUIPMENT. (NESC 239B, AND NESC 239H4).
- G. THE INSTALLATION MUST MEET ALL NESC REQUIREMENTS.
- H. A DOMINION DISTRIBUTION REPRESENTATIVE MUST APPROVE ALL ANTENNA ATTACHMENT POLES. ANTENNAS ARE NOT ALLOWED ON POLES FREQUENTLY VISITED BY OPERATIONS PERSONNEL. THESE INCLUDE EQUIPMENT POLES SUCH AS RECLOSERS, THREE PHASE TRANSFORMER BANKS, THREE PHASE TERMINALS, CAPACITORS, SWITCHES, ETC.
- I. INSTALLERS WORKING IN THE AREA OF THE POLE ABOVE THE NORMAL COMMUNICATIONS SPACE MUST MEET OSHA 1910.269 REQUIREMENTS.
- J. AN ANTENNA GROUND WIRE AND GROUNDING ELECTRODE IS REQUIRED. THIS GROUND SHALL BE BONDED TO THE COMPANY GROUND WIRE.
- K. VERIZON TO LEAVE MINIMUM 3' LEADS COILED AND SECURED TO PREVENT ACCIDENTAL CONTACT WITH SECONDARY CONDUCTORS.

#### L. SERVICE WILL BE CONNECTED BY VERIZON IN COMPLIANCE WITH FILED RATE PLAN.

M. LINE ARRESTER INSTALLATIONS ARE REQUIRED ON POLES WITH PRIMARY CONDUCTORS.

N. VERIZON'S GROUND MAY NOT BE USED TO SATISFY NEC REQUIREMENTS FOR THE EQUIPMENT BRACKET AC SERVICE GROUND. THE EQUIPMENT AND ITS AC SERVICE GROUND ARE REQUIRED TO BE BONDED TO THE COMPANY GROUND CONDUCTOR ON THE POLE AT LEAST 6" ABOVE GROUND LEVEL USING A NO. 6 CU CONDUCTOR. CONNECTION TO THE COMPANY'S GROUND ROD OR CONNECTOR IS NOT APPROVED.

O. BONDS SHALL BE MADE BETWEEN THE GROUND WIRE AND THE EQUIPMENT CABINET (NOT NEUTRAL BUS) OF THE POWER SUPPLY/SWITCH. THESE CONNECTIONS ARE TO AVOID POTENTIAL DIFFERENCES BETWEEN DEVICES ON THE POLES. BOND TO THE POWER SUPPLY/SWITCH SHALL BE EXTERNAL AND VISIBLE FROM THE GROUND. WHEN A COMPANY DRIVEN GROUND EXISTS ON THE POLE, THE EQUIPMENT CASE BONDING WIRE NEED EXTEND ONLY FROM THE SWITCH TO THE COMPANY GROUND WIRE.

P. THE METER BASE, EQUIPMENT BRACKET, AND DISCONNECT SHOULD BE MOUNTED PROVIDING EIGHT FEET MINIMUM GROUND CLEARANCE. THEY MAY BE MOUNTED AT OPERATIONAL HEIGHT THAT:
I. THE EQUIPMENT BRACKET DOES NOT OBSTRUCT A WALKWAY OR IS SUBJECT TO VEHICULAR TRAFFIC.
2. THE EQUIPMENT BRACKET CAN NOT BE USED ALONE OR IN CONJUNCTION WITH A FENCE, PEDESTAL, ETC. AS A CLIMBING AID.

Q. FOR SAFETY PURPOSES DEVICES WITH LEAD ACID BATTERIES SHALL NOT BE USED.

R. DUE TO OPERATIONAL CONCERNS, SECONDARY POLES OR GUY STUB POLES ARE PREFERRED FOR ANTENNA ATTACHMENTS. PRIMARY POLES SHOULD ONLY BE CONSIDERED WHEN THERE IS NO OTHER SUITABLE POLE IN THE AREA.

S. 60 WATT REMOTE RADIO HEAD (RRH) CAN BE SUBSTITUTED FOR THE 90 WATT RRH AS NEEDED.
 T. THE WEATHERHEAD WILL BE INSTALLED 4" ABOVE THE NEUTRAL.

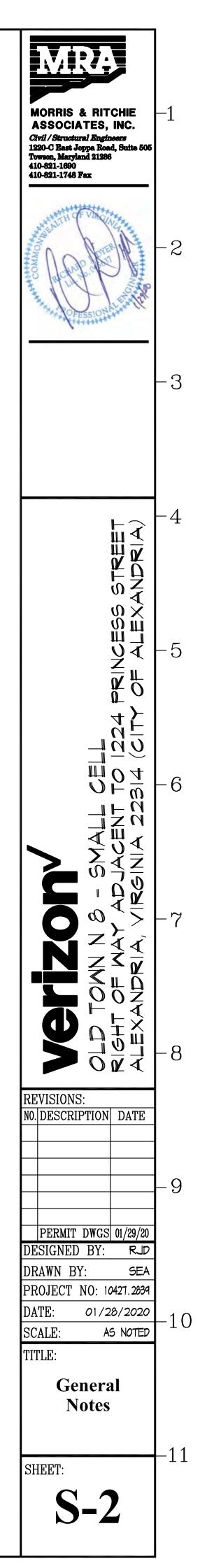
POST-INSTALLATION INSPECTION

A. A POST-INSTALLATION INSPECTION REPORT IS REQUIRED AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID. A POST-INSTALLATION INSPECTION IS A VISUAL INSPECTION OF TOWER INSTALLATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE INSTALLATION DRAWINGS.

B. THE POST-INSTALLATION INSPECTION REPORT SHALL BE COMPLETED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION IN WHICH THE PROJECT IS LOCATED.

C. THE INTENT OF THE POST-INSTALLATION INSPECTION REPORT IS TO CONFIRM INSTALLATION AND CONFIGURATION AND WORKMANSHIP ONLY AND IS <u>NOT</u> A REVIEW OF THE INSTALLATION DESIGN ITSELF.

D. TO ENSURE THAT THE REQUIREMENTS OF THE POST-INSTALLATION INSPECTION REPORT ARE MET, IT IS VITAL THAT THE CONTRACTOR AND POST-INSTALLATION INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED.



# ELECTRICAL SPECIFICATIONS

- SECTION 16010 BASIC ELECTRICAL REQUIREMENTS
- A. THE WORK INCLUDES FURNISHING AND INSTALLING THE MATERIAL, EQUIPMENT AND SYSTEMS COMPLETE AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS. THE ELECTRICAL INSTALLATIONS, WHEN FINISHED, SHALL BE COMPLETE AND COORDINATED AND READY FOR SATISFACTORY SERVICE.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, STATE, BOCA, AND LOCAL ELECTRICAL CODES THAT GOVERN EACH PARTICULAR TRADE AND THE 2014 NATIONAL ELECTRICAL CODE.
- C. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL EQUIPMENT INSTALLATION WITH ALL TRADES.
- D. THE CONTRACTOR SHALL MAKE APPLICATION AND PAY ALL CHARGES FOR ALL NECESSARY PERMITS, LICENSES, AND INSPECTIONS AS REQUIRED UNDER THE ABOVE CODES. UPON COMPLETION OF THE WORK, THE CUSTOMARY CERTIFICATIONS OF APPROVAL SHALL BE FURNISHED.
- E. NO MATERIALS OR EQUIPMENT SHALL BE USED IN THE WORK UNTIL APPROVED. ALL MATERIALS SHALL BE U.L. LISTED.
- F. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SHALL INSPECT THE EXISTING CONDITIONS OF THE SITE. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLYING WITH THE CONTRACT DOCUMENTS.
- G. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL INSTALLATIONS. DETAILS OF PROPOSED DEPARTURES DUE TO ACTUAL FIELD CONDITIONS OR OTHER CAUSES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. REWORK OF COMPLETED ITEMS DUE TO IMPROPER FIELD COORDINATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- H. PROVIDE SUFFICIENT ACCESS AND CLEARANCE FOR ALL ITEMS OF EQUIPMENT REQUIRING SERVICING AND MAINTENANCE.
- I. THE CONTRACTOR SHALL PERFORM ALL NECESSARY CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE INSTALLATIONS. PATCHING OF WALLS, FLOORS, CEILINGS, ETC. SHALL MATCH THE ADJACENT SURFACES.
- J. UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS OF THE ELECTRICAL CONTRACT DRAWINGS WHICH SHALL BE LEGIBLY MARKED IN RED TO SHOW ALL CHANGES AND DEPARTURES OF THE INSTALLATIONS COMPARED WITH THE ORIGINAL DESIGN. THEY SHALL BE SUITABLE FOR USE IN PREPARATION OF RECORD DRAWINGS.
- K. GUARANTEE: ALL NEW ELECTRICAL INSTALLATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE (I) YEAR BEGINNING THE DAY OF THE FINAL ACCEPTANCE OF THE WORK OR BENEFICIAL OCCUPANCY OF THE OWNER, WHICHEVER OCCURS FIRST. THE ABOVE SHALL NOT IN ANY WAY VOID OR ABBROGATE EQUIPMENT MANUFACTURER'S GUARANTEE OR WARRANTY. CERTIFICATES OF GUARANTEE SHALL BE DELIVERED TO THE OWNER. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE ELECTRICAL INSTALLATION DURING THE GUARANTEE PERIOD, NEW REPLACEMENT PARTS SHALL BE FURNISHED AND INSTALLED PROMPTLY AND AT NO COST TO VERIZON.
- L. ANY ELECTRICAL WORK WHICH WILL INTERFERE WITH THE NORMAL OPERATION OF THE STREET LIGHT SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE BGE/BALTIMORE CITY REPRESENTATIVE.
- M. SUPPORTS, HANGERS, AND FOUNDATIONS: PROVIDE ALL SUPPORTS, HANGERS BRACES, ATTACHMENTS, AND FOUNDATIONS REQUIRED FOR THE WORK. SUPPORT AND SET THE WORK IN A THOROUGHLY SUBSTANTIAL AND WORKMANLIKE MANNER WITHOUT PLACING STRAINS ON THE MATERIALS, EQUIPMENT, OR THE BUILDING STRUCTURE. SUPPORTS, HANGERS, BRACES AND ATTACHMENTS SHALL BE STANDARD MANUFACTÚRED ITEMS OR FABRICATED STRUCTURAL STEEL SHAPES.
- N. THERE SHALL BE NO INTERRUPTION OF POWER TO EXISTING ELECTRICAL SYSTEMS WITHOUT PRIOR CONSENT FROM VERIZON. SUCH INTERRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE SCHEDULED WITH THE OWNER AT LEAST THREE BUSINESS DAYS IN ADVANCE OF THE OUTAGE. ANY COST FOR WORK THAT MUST BE DONE ON AN OVERTIME BASIS SHALL BE INCLUDED IN THE BID.
- O. MOUNTING AND SUPPORTING OF ALL EQUIPMENT PROVIDED BY THIS CONTRACTOR SHALL BE COORDINATED WITH VERIZON IN THE FIELD
- P. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF THE ELECTRICAL WORK. ANY DAMAGE DONE TO THE WORK ALREADY IN PLACE BY REASON OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BY A QUALIFIED MECHANIC EXPERIENCED IN SUCH WORK. PATCHING SHALL BE UNIFORM IN APPEARANCE AND SHALL MATCH THE SURROUNDING SURFACE. ALL PENETRATIONS THROUGH WALLS OF NEW ROOM SHALL BE SEALED WEATHERTIGHT.

- A. <u>CONDUIT & BOXES</u>:
- SHALL

- GRADE GALVANIZING.
- B. <u>MIRES ∉ CABLE:</u>
- WHERE APPLICABLE.
- C. <u>DISCONNECTS:</u>
- D. GROUNDING:
- EQUIPMENT
- A. ELECTRICAL SERVICE:
- B. COMMUNICATIONS SERVICE:

# DOMINION SPECIFCATIONS

- I. A 9"XII" RF NOTICE SIGN MUST BE INSTALLED ON BOTH SIDES OF THE POLE A MINIMUM OF ONE FOOT ABOVE THE UPPERMOST ELECTRIC SUPPLY FACILITIES. THIS SIGN MARKS THE POINT WHERE RF EXPOSURE LEVELS MAY EXCEED "FCC OET-65 APPENDIX A" LIMITS FOR UNCONTROLLED GENERAL POPULATION EXPOSURE. WORKING ABOVE THIS POINT REQUIRES DE-ENERGIZING THE ANTENNA. THIS SIGN MUST INCLUDE THE STANDARD RF SYMBOL AND STATE "NON RF WORKERS MUST POWER DOWN DEVICE WHEN WORKING ABOVE THIS POINT." THE SIGN SHALL BE 60 MIL LEXAN WITH U.V. INHIBITORS AND SIGNS SHALL ADHERE TO IEEE C95.2 STANDARDS.
- 2. A POWER DISCONNECT MUST BE INSTALLED. THIS DEVICE MUST PROVIDE DISCONNECTING MEANS FOR DE-ENERGIZING AC AND DC (BATTERY BACK UP) POWER TO THE ANTENNA. THE DISCONNECT SHOULD BE A STANDARD NEMA TYPE HINGED ENCLOSURE AND IS SUBJECT TO COMPANY APPROVAL. THE DISCONNECT SHALL BE CLEARLY LABELED AS THE ANTENNA POWER DISCONNECT.
- 3. AN ADDITIONAL RF LABEL ON THE EQUIPMENT MUST INCLUDE COMMUNICATION COMPANY NAME, AND A 24-HR CONTACT PHONE NUMBER. THE LABEL SHALL ADHERE TO IEEE C95.2 STANDARDS.
- 4. THE ANTENNA SHALL BE MOUNTED THE GREATER VALUE OF NESC MINIMUM CLEARANCE OR THE MINIMUM CLEARANCE REQUIRED TO MEET OET UNCONTROLLED EXPOSURE GUIDELINES AT A POINT I' ABOVE THE ELECTRIC FACILITIES. THE ANTENNA INCLUDING ATTACHING HARDWARE SHALL BE MOUNTED A MINIMUM OF 45" ABOVE PRIMARY INSTALLATIONS AND 40" ABOVE SECONDARY INSTALLATIONS. (NESC TABLE 238-1)
- 5. ANTENNA EQUIPMENT IS PERMISSIBLE ON WOOD POLES ONLY.
- 6. ONLY NON METALLIC ELECTRIC GRADE CONDUIT OR RISERS CAN BE USED FOR ROUTING THE COMMUNICATION CABLES THROUGH THE SUPPLY SPACE. THE CONDUIT INSTALLATION SHALL NOT OBSTRUCT THE CLIMBING SPACE OR WORKING SPACE ON THE POLE AND SHALL NOT OBSTRUCT SUPPLY EQUIPMENT. (NESC 239B, AND NESC 239H4)
- 7. THE INSTALLATION MUST MEET ALL NESC REQUIREMENTS.
- 8. A DOMINION DISTRIBUTION REPRESENTATIVE MUST APPROVE ALL ANTENNA ATTACHMENT POLES. ANTENNAS ARE NOT ALLOWED ON POLES FREQUENTLY VISITED BY OPERATIONS PERSONNEL. THESE INCLUDE EQUIPMENT POLES SUCH AS RECLOSERS, THREE PHASE TRANSFORMER BANKS, THREE PHASE TERMINALS, CAPACITORS, SWITCHES, ETC.
- 9. INSTALLERS WORKING IN THE AREA OF THE POLE ABOVE THE NORMAL COMMUNICATIONS SPACE MUST MEET OSHA 1910.269 REQUIREMENTS.

- OPERATIONAL HEIGHT THAT: VEHICULAR TRAFFIC

2. <u>SECTION 16050 - BASIC ELECTRICAL MATERIALS & METHODS</u>

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ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL CONDUIT ABOVE GRADE SHALL BE NON METALLIC ELECTRIC GRADE.

2. JUNCTION AND PULL BOXES SHALL BE FURNISHED AND INSTALLED AS SHOWN OR WHERE REQUIRED TO FACILITATE PULLING OF WIRES OR CABLES. SUCH BOXES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. GASKETED COVER PLATES BE FURNISHED FOR OUTDOOR INSTALLATIONS.

3. ALL BOXES, WHETHER OUTLET, JUNCTION, PULL, OR EQUIPMENT SHALL BE FURNISHED WITH APPROPRIATE COVERS.

4. NO SECTIONALIZED BOXES SHALL BE USED.

5. ALL EMT CONDUIT FITTINGS SHALL BE COMPRESSION TYPE.

6. ALL FIELD CUTS OF GALVANIZED ITEMS SHALL BE BRUSHED WITH MARINE

7. ALL METALLIC OBJECTS EXPOSED TO WEATHER SHALL BE GALVANIZED.

BUILDING WIRE, UNLESS OTHERWISE INDICATED, SHALL BE 600 VOLT, TYPE THWN INSULATION FOR INTERIOR AND EXTERIOR USE. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY. NO ROMEX OR AC (BX) CABLE WILL BE ALLOWED ON THE PROJECT.

2. NO WIRE SMALLER THAN NO. TWELVE (12) AWG SHALL BE USED UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM TERMINAL BOARD TO POINT OF FINAL CONNECTION, AND NO SPLICE SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. ALL CONDUCTORS SHALL BE OF THE SIZES AS INDICATED. ALL WIRES NO. EIGHT (8) AWG AND LARGER SHALL BE STRANDED. THE CONTRACTOR SHALL MAKE WIRING CONNECTIONS OF ALL ELECTRICAL EQUIPMENT REQUIRING ELECTRICAL SERVICE. WIRES AND CABLES SHALL BE AS MANUFACTURED BY PIRELLI, ROYAL, AND TRIANGLE OR EQUIVALENT.

3. ALL WIRING SHALL BE COLOR CODED. MATCH EXISTING SYSTEM COLOR CODING

FURNISH AND INSTALL SAFETY SWITCHES WHERE INDICATED AND AS REQUIRED FOR MOTOR OUTLETS OR OTHER EQUIPMENT. SWITCHES SHALL BE OF SIZE, NUMBER OF POLES AND FUSED OR NON-FUSED, AS REQUIRED FOR JOB CONDITIONS AND THE NATIONAL ELECTRICAL CODE.

PROVIDE GROUND FOR ALL RACEWAYS, DEVICES, AND UTILIZATION EQUIPMENT PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AS HERINAFTER SPECIFIED. ALL GROUNDING AND BONDING CONNECTIONS SHALL BE SOLDERLESS.

2. PROVIDE INSULATED GROUNDING CONDUCTORS FOR FEEDER AND BRANCH CIRCUIT WIRING AS CALLED FOR ON THE PLANS. PROVIDE GROUNDING BLOCKS, FERMINALS, ETC., FOR CONNECTION OF GROUND WIRE IN ALL DISTRIBUTION

3. <u>SECTION 16400 - SERVICE & DISTRIBUTION</u>

ELECTRICAL POWER TO THE NEW EQUIPMENT SHALL BE EXTENDED FROM THE PROPOSED UTILITY METER AND SERVICE ENTRANCE RATED LOAD CENTER PANEL MOUNTED ON NEW POLE. LABEL METER WITH PHENOLIC NAMEPLATE READING "VERIZON WIRELESS". LABEL PANEL WITH PHENOLIC NAMEPLATE READING "VERIZON WIRELESS SERVICE DISCONNECT".

TELEPHONE SERVICE SHALL BE EXTENDED BY THE TELEPHONE COMPANY. PROVIDE SERVICE CONDUITS, BACKBOARDS, SLEEVES, AND OTHER EQUIPMENT SHOWN ON THE DRAWINGS FOR USE BY THE TELEPHONE COMPANY. ALL CHARGES BY THE UTILITY COMPANY SHALL BE PAID BY THE OWNER.

2. ALL ELBOWS IN CONDUIT RUNS SHALL BE WIDE SWEEP FIELD BENDS. INSTALL PULL BOXES AS REQUIRED AND WHERE DIRECTED BY THE TELEPHONE COMPANY AND/OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

IO. AN ANTENNA GROUND WIRE AND GROUNDING ELECTRODE IS REQUIRED. THIS GROUND SHALL BE BONDED TO THE COMPANY GROUND WIRE.

II. VERIZON TO LEAVE MINIMUM 3' LEADS COILED AND SECURED TO PREVENT ACCIDENTAL CONTACT WITH SECONDARY CONDUCTORS.

12. SERVICE WILL BE CONNECTED BY VERIZON IN COMPLIANCE WITH FILED RATE PLAN. 13. LINE ARRESTER INSTALLATIONS ARE REQUIRED ON POLES WITH PRIMARY CONDUCTORS.

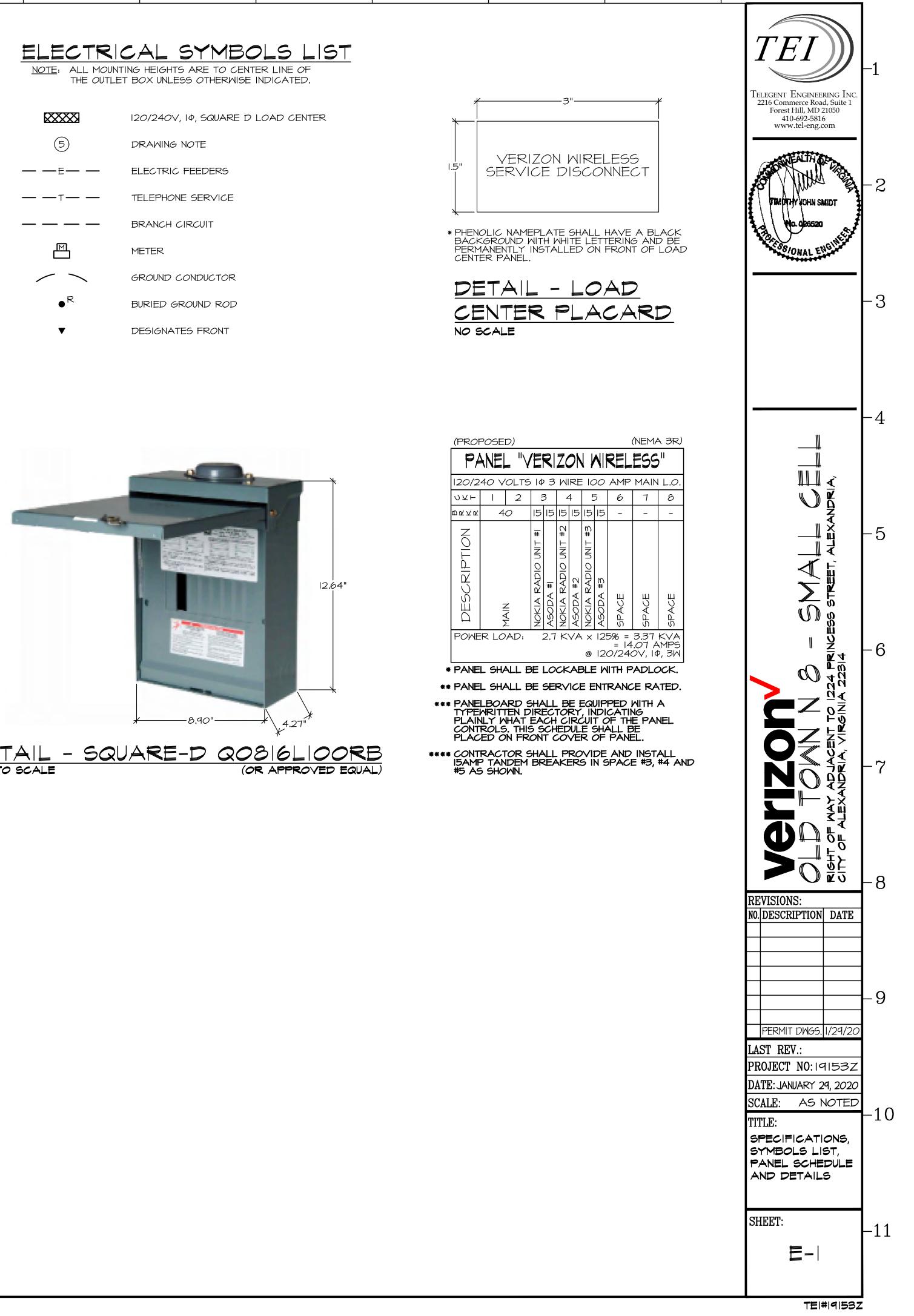
14. VERIZON'S GROUND MAY NOT BE USED TO SATISFY NEC REQUIREMENTS FOR THE EQUIPMENT BRACKET AC SERVICE GROUND. THE EQUIPMENT AND ITS AC SERVICE GROUND ARE REQUIRED TO BE BONDED TO THE COMPANY GROUND CONDUCTOR ON THE POLE AT LEAST 6" ABOVE GROUND LEVEL USING A No. 6 CU CONDUCTOR. CONNECTION TO THE COMPANY'S GROUND ROD OR CONNECTOR IS NOT APPROVED.

15. BONDS SHALL BE MADE BETWEEN THE GROUND WIRE AND THE EQUIPMENT CABINET (NOT NEUTRAL BUS) OF THE POWER SUPPLY/SWITCH. THESE CONNECTIONS ARE TO AVOID POTENTIAL DIFFERENCES BETWEEN DEVICES ON THE POLES. BOND TO THE POWER SUPPLY/SWITCH SHALL BE EXTERNAL AND VISIBLE FROM THE GROUND. WHEN A COMPANY DRIVEN GROUND EXISTS ON THE POLE, THE EQUIPMENT CASE BONDING WIRE NEED EXTEND ONLY FROM THE SWITCH TO THE COMPANY GROUND WIRE.

16. THE METER BASE, EQUIPMENT BRACKET, AND DISCONNECT SHOULD BE MOUNTED PROVIDING EIGHT FEET MINIMUM GROUND CLEARANCE. THEY MAY BE MOUNTED AT A. THE EQUIPMENT BRACKET DOES NOT OBSTRUCT A WALKWAY OR IS SUBJECT TO B. THE EQUIPMENT BRACKET CAN NOT BE USED ALONE OR IN CONJUNCTION WITH A FENCE, PEDESTAL, ETC. AS A CLIMBING AID.

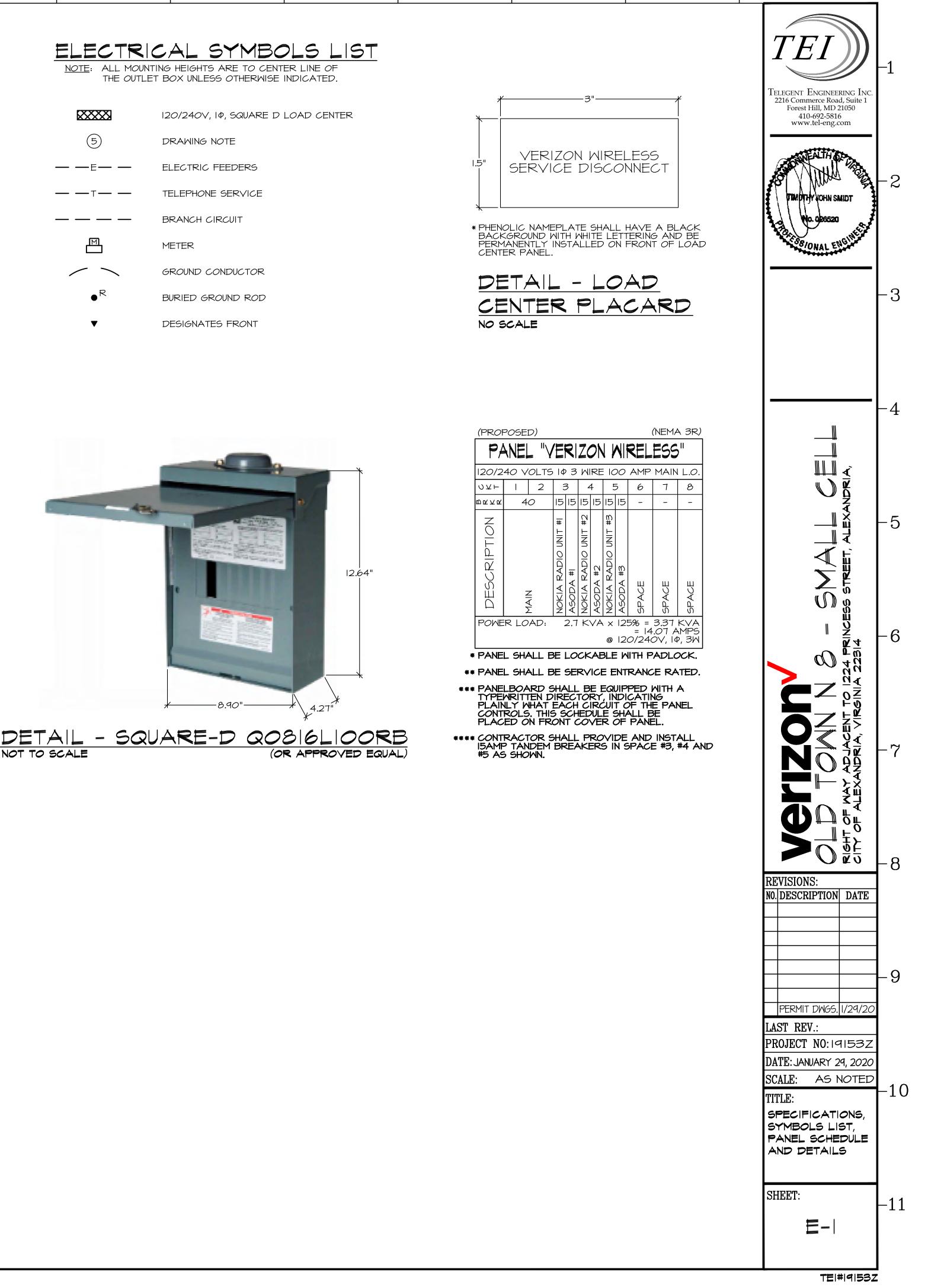
17. FOR SAFETY PURPOSES DEVICES WITH LEAD ACID BATTERIES SHALL NOT BE USED. 18. DUE TO OPERATIONAL CONCERNS, SECONDARY POLES OR GUY STUB POLES ARE PREFERRED FOR ANTENNA ATTACHMENTS. PRIMARY POLES SHOULD ONLY BE CONSIDERED WHEN THERE IS NO OTHER SUITABLE POLE IN THE AREA.

19. ONE RADIO CABINET, A SERVICE DISCONNECT AND THE METER BASE MAY BE POLE MOUNTED. ADDITIONAL EQUIPMENT OR LARGE CABINETS SHALL BE PAD MOUNTED. PAD MOUNTED EQUIPMENT MUST BE LOCATED A MINIMUM OF 10' FROM THE BASE OF THE POLE.



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		EQUIPMENT	SCHEDULE						
	MANUFACTURER	PART #	COMPONENT TYPE	QUANTITY	DIMENSIONS (H×M×D)	WEIGHT			
	NOKIA	AIRSCALE AEUB & ASODA RRH	ANTENNA/ REMOTE RADIO HEAD	3	23.62"×II.97"×8.II"	68.2 LBS.		D	RAWING NO
	SQUARE-D	QO816LIOORB	LOAD CENTER PANEL	I 1.		9.68 LBS.			PROPOSED UTILITY COMP PROVIDED AND INSTALLEI
	MILBANK MFG. CO.	U7487-0		3±		3.98 LBS.  20.0 LBS.			VERIZON WIRELESS". EXTEND 3#I/O AWG + #6 G
			CONDUIT CABLING			01.86 LBS.		C F	EXTEND 3#1/0 AWG + #6 G FROM LINE SIDE OF METER COORDINATE FINAL COND FIELD. PROVIDE WEATHER TO FLEX PRIOR TO FINAL BLACK AT WEATHERHEAD
						4.45 CU.FT.		0	EXTEND 3#6 AWG + #8 GR
				L	I			$\sim$	
				ſ	7			f F I	PROVIDE AND INSTALL WE OO AMP M.L.O EIGHT (8) F FIELD INSTALLED 2P40A POLE. PROVIDE PHENOLIC DISCONNECT". REFER TO F
			NOKIA ANTENNA/RADIO AND ASODA OMITTED FOR CLARITY					5	PROPOSED ROUTE OF INC
)(TYP OF 3)-					<b>a</b>	)(TYP <i>O</i> F 3)			COORDINATE FINAL INCOM JTILITY COMPANY PROVID ON UTILITY POLE. EXACT N
								_	TELEPHONE IN FIELD.
			(TYP OF 3)						EXTEND SIX (6) PAIR FIBE MOUNTED ON UTILITY POLE EXTEND DAMP LOCATION
								-	EXTEND DAMP LOCATION FANDEM BREAKER (TYP O FO EACH NOKIA ANTENNA, PANEL SCHEDULE, SHEET E
								<u> </u>	VERIZON WIRELESS PROVI MOUNTED ON UTILITY POLE
			78					-	VERIZON WIRELESS PROVI OUTDOOR 175W ASODA RE 3). REFER TO STRUCTURAL
								_	
		- PROPOSED VERIZON WIRELESS RF WARNING SIGN (TYP OF 2)						<u> </u>	EXTEND ONE (I) WEATHERF AT BASE OF LOAD CENTE CONNECTION WEATHERPRC
								$\sim$	CONTRACTOR MUST REFER STANDARDS FOR FIBER G REFER TO DRAWING PREP
								Š	VERIZON CONTRACTOR SH VOLTAGE, PHASE, ETC.) M VOLTAGE IS: 120/240V, 10
									/OLTAGE IS: 120/240V, 10
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		3							M M
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6'-2" 4 		- WOODEN UTILITY POLE						(2)-	/
	5'-0" 4							* ( L	COORDINATE FINAL MOUNT ITILITY COMPANY REPRES OF WORK.
		GRADE	GRADE						CONTRACTOR TO COORDI
*	FRONT VIEW		SER DIAGRAM	SIDE					
		NO SCALE						$\bigcirc$	(3)(4) EQUIPME SCALE:  " = '-0

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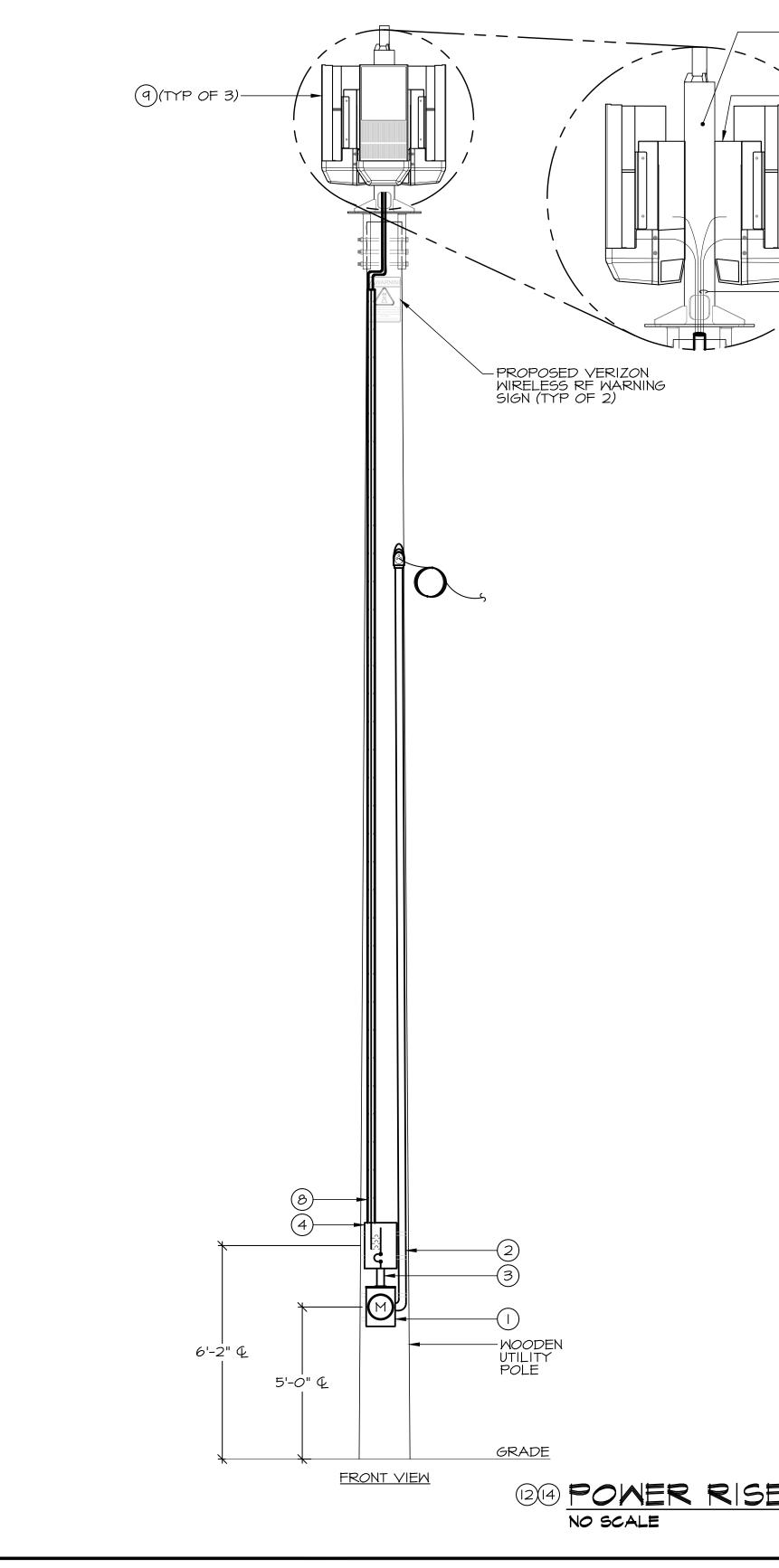
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# NOTES

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COMPANY METER CAN MOUNTED ON UTILITY POLE. NEW METER GLOBE TALLED BY UTILITY COMPANY. PROVIDE PHENOLIC NAMEPLATE READING

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5 + #6 GRD IN ONE (I) - 2" PVC CONDUIT VERTICALLY UP UTILITY POLE OF METER CAN FOR EXTENSION OF OVERHEAD ELECTRIC SERVICE CABLES. L CONDUIT TERMINATION POINT WITH UTILITY REPRESENTATIVE IN THE MEATHER HEAD AT TOP END OF CONDUIT. CONTRACTOR SHALL TRANSITION OF FINAL CONNECTION TO METER CAN. ELECTRICIAN SHALL ALLOW 3'-O" OF ERHEAD AND METER FOR FINAL TERMINATIONS BY UTILITY COMPANY. #8 GRD - I" CONDUIT FROM METER UP TO PANEL.

ALL WEATHERPROOF SERVICE ENTRANCE RATED, 120/240 VOLT, 14, 3W, HT (8) POSITION QO LOAD CENTER PANEL (MODEL #QO816L100RB) WITH 2P40A MAIN CIRCUIT BREAKER MOUNTED ABOVE METER CAN ON UTILITY ENOLIC NAMEPLATE READING, "VERIZON WIRELESS SERVICE ER TO PANEL SCHEDULE, SHEET E-I FOR ADDITIONAL INFORMATION.

OF INCOMING OVERHEAD FIBER CABLE BY UTILITY COMPANY. EXCESS OILED AND SECURED TO UTILITY POLE ABOVE ALL EQUIPMENT. L INCOMING FIBER ROUTE WITH UTILITY COMPANY.

PROVIDED AND INSTALLED OPTISHEATH MULITPORT TERMINAL MOUNTED XACT MOUNTING LOCATION SHALL BE COORDINATED WITH VERIZON

IR FIBER FROM PROPOSED OMNI-TAP TO SERVE ASODA RADIO UNITS Y POLE.

ATION RATED MC CABLE (4#12 AWG + #12 GRD) FROM EACH 15 AMP (TYP OF 3) VERTICALLY UP EXTERIOR OF UTILITY POLE IN RISER GUARD ITENNA/ASODA UNIT MOUNTED ON UTILITY POLE (TYP OF 3). REFER TO SHEET E-I, FOR ADDITIONAL INFORMATION.

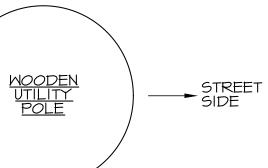
PROVIDED, CONTRACTOR INSTALLED NOKIA ANTENNA/RADIO UNIT POLE.

5 PROVIDED AND CONTRACTOR INSTALLED NOKIA AIRSCALE CORE ODA REMOTE RADIO HEAD MOUNTED BEHIND NOKIA ANTENNAS (TYP OF ICTURAL DRAWINGS FOR ADDITIONAL MOUNTING INFORMATION.

ATHERPROOF RATED CAT 5E CABLE FROM EACH ASODA AND COIL UP CENTER. PROVIDE AND INSTALL RJ45 PLUG KIT WITH CAP TO KEEP ERPROOF.

FREFER TO THE LATEST EDITION OF VERIZON WIRELESS FIBER DESIGN FIBER QUANTITIES/ INTERCONNECTS. PREPARED BY MRA FOR SITE PLAN.

CTOR SHALL COORDINATE FINAL AVAILABLE SERVICE CHARACTERISTICS ETC.) WITH UTILITY COMPANY PRIOR TO START OF WORK. PREFERRED 240V, 10, ACCEPTABLE VOLTAGE IS: 120/208V, 10.



PER EQUIPMENT

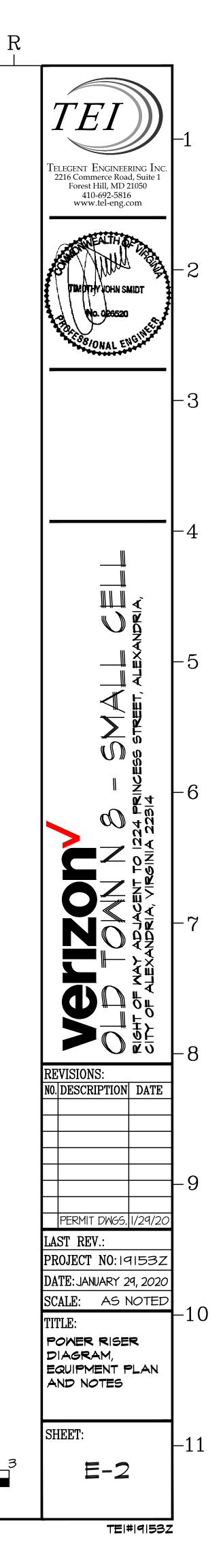
<u>HOODEN</u> UTILITY POLE

SCALE:|"=|'-0"

WER EQUIPMENT MOUNTING LOCATION OF METER WITH

COORDINATE THE FINAL PLACEMENT OUD AS INDICATED ON SHEET S-1.

PMENT PLAN SCALE: |" =|'-0"





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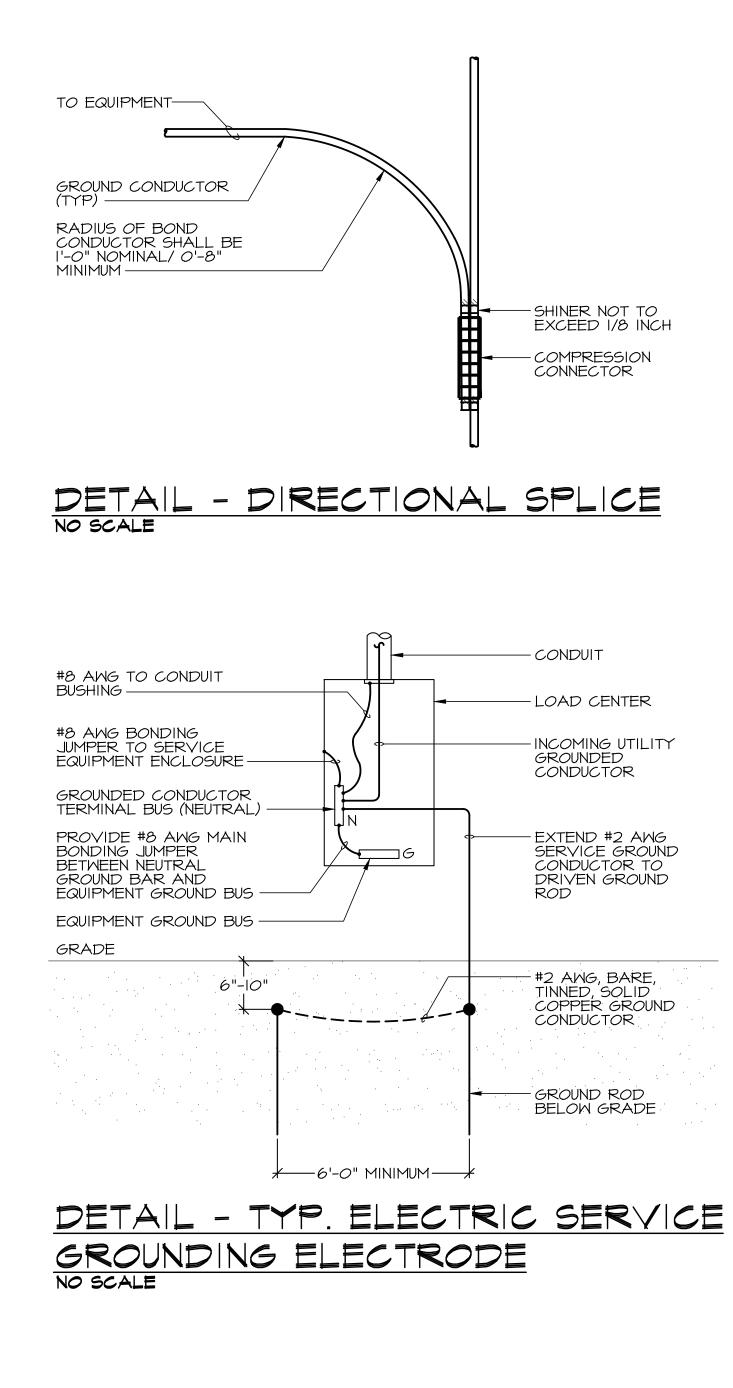
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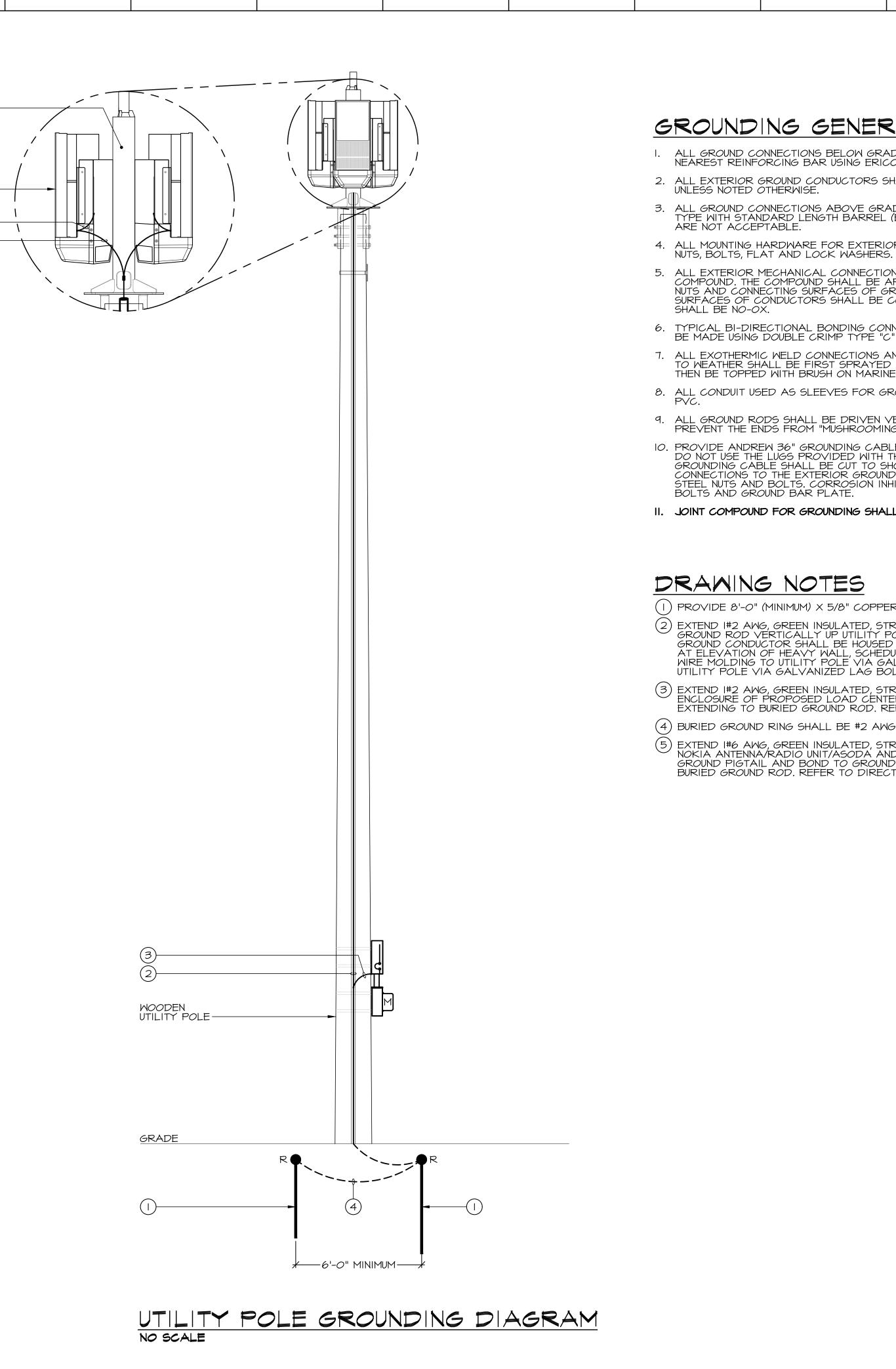
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PROPOSED NOKIA ANTENNA/RADIO UNIT (TYP OF 3)

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## GROUNDING GENERAL NOTES

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ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (CADWELD)TO NEAREST REINFORCING BAR USING ERICO CADWELD "ONE-SHOT" CONNECTIONS.

2. ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG BARE, TINNED SOLID COPPER, UNLESS NOTED OTHERWISE.

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3. ALL GROUND CONNECTIONS ABOVE GRADE SHALL BE TWO-HOLE COPPER COMPRESSION TYPE WITH STANDARD LENGTH BARREL (BURNDY # YA2CL- 2TCI4EI). SINGLE HOLE LUGS

4. ALL MOUNTING HARDWARE FOR EXTERIOR LOCATIONS SHALL BE GALVANIZED INCLUDING

5. ALL EXTERIOR MECHANICAL CONNECTIONS SHALL BE MADE USING OXIDE-INHIBITING JOINT COMPOUND. THE COMPOUND SHALL BE APPLIED TO ALL SURFACES OF BOLTS, WASHERS, NUTS AND CONNECTING SURFACES OF GROUND BAR PLATES. ALL BARE COPPER SURFACES OF CONDUCTORS SHALL BE COATED PRIOR TO LUGGING. JOINT COMPOUND

6. TYPICAL BI-DIRECTIONAL BONDING CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE MADE USING DOUBLE CRIMP TYPE "C" TAP CONNECTORS.

7. ALL EXOTHERMIC WELD CONNECTIONS AND FIELD CUTS OF METALLIC OBJECTS EXPOSED TO WEATHER SHALL BE FIRST SPRAYED WITH COLD GALVANIZING (AFTER COOL DOWN) THEN BE TOPPED WITH BRUSH ON MARINE GRADE GALVANIZING.

8. ALL CONDUIT USED AS SLEEVES FOR GROUNDING OR BONDING CONDUCTORS SHALL BE PVC.

9. ALL GROUND RODS SHALL BE DRIVEN VERTICALLY USING A GROUND ROD SHIELD TO PREVENT THE ENDS FROM "MUSHROOMING".

IO. PROVIDE ANDREW 36" GROUNDING CABLE REQUIRING FIELD ATTACHABLE CRIMP-ON LUG. DO NOT USE THE LUGS PROVIDED WITH THE GROUNDING KIT; PROVIDE TWO HOLE LUGS. GROUNDING CABLE SHALL BE CUT TO SHORTEST LENGTH POSSIBLE. ALL BONDING CONNECTIONS TO THE EXTERIOR GROUND BAR PLATE SHALL BE MADE USING STAINLESS STEEL NUTS AND BOLTS. CORROSION INHIBITOR SHALL BE APPLIED BETWEEN NUTS AND BOLTS AND GROUND BAR PLATE.

II. JOINT COMPOUND FOR GROUNDING SHALL BE NO-OX.

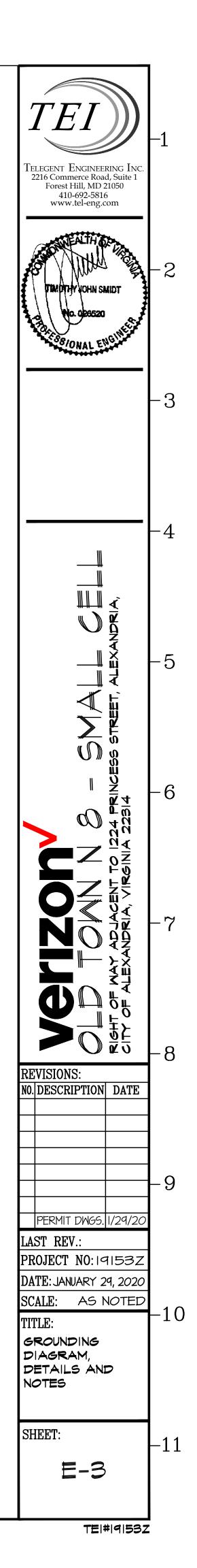
(I) PROVIDE 8'-0" (MINIMUM) X 5/8" COPPER CLAD STEEL GROUND ROD.

2 EXTEND I#2 AWG, GREEN INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM BURIED GROUND ROD VERTICALLY UP UTILITY POLE FOR GROUNDING OF EQUIPMENT/ANTENNAS. GROUND CONDUCTOR SHALL BE HOUSED WITHIN I/2" GROUND WIRE MOLDING THEN TRANSITION AT ELEVATION OF HEAVY WALL, SCHEDULE 40 PV MOLDING (POLE RISER). SECURE GROUND WIRE MOLDING TO UTILITY POLE VIA GALVANIZED 2"x5/8" STAPLES. SECURE POLE RISER TO UTILITY POLE VIA GALVANIZED LAG BOLTS, REFER TO STRUCTURAL FOR DETAILS.

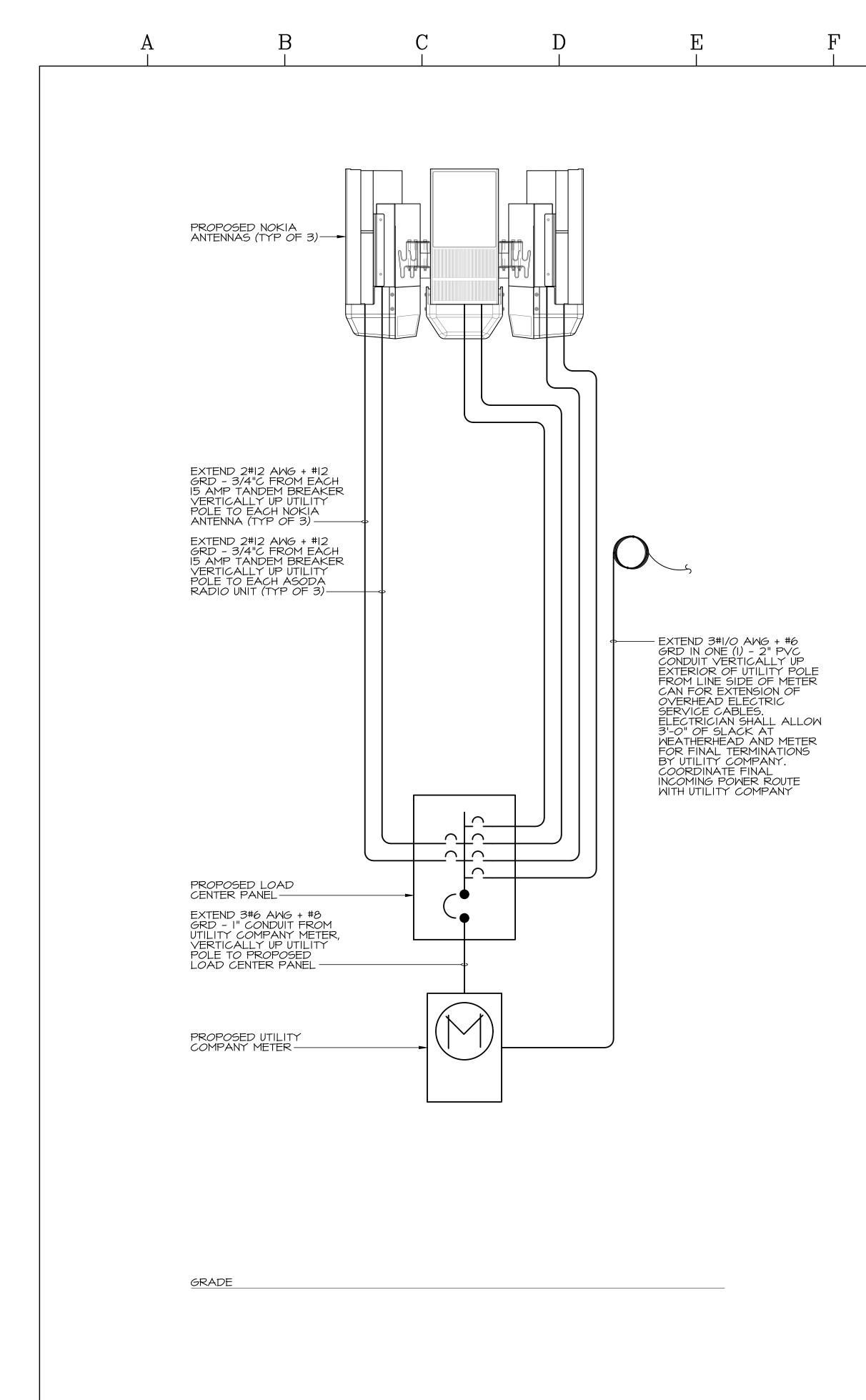
3 EXTEND 1#2 AWG, GREEN INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM ENCLOSURE OF PROPOSED LOAD CENTER PANEL AND BOND TO GROUND CONDUCTOR EXTENDING TO BURIED GROUND ROD. REFER TO SERVICE GROUNDING DETAIL, THIS SHEET.

(4) BURIED GROUND RING SHALL BE #2 AWG, BARE, TINNED, SOLID COPPER.

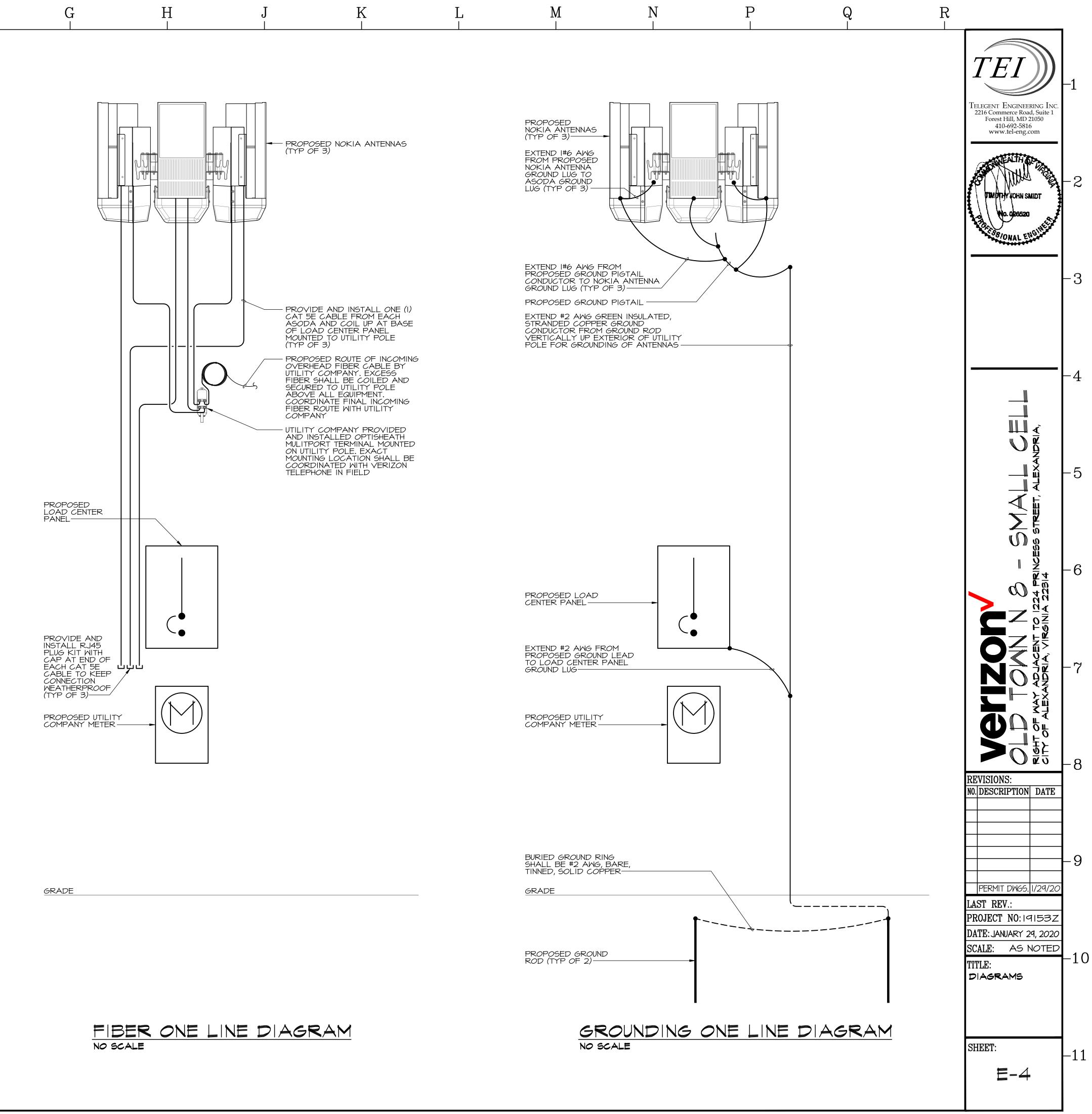
5 EXTEND I#6 AWG, GREEN INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM EACH NOKIA ANTENNA/RADIO UNIT/ASODA AND BOND TO GROUND PIGTAIL CONDUCTOR. EXTEND GROUND PIGTAIL AND BOND TO GROUND CONDUCTOR EXTENDING DOWN LIGHT POLE TO BURIED GROUND ROD. REFER TO DIRECTIONAL SPLICE DETAIL, THIS SHEET.



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## Old Town N 8 Overall Site Layout







## Old Town N 8 Existing View 1







#### Old Town N 8 Proposed View 1

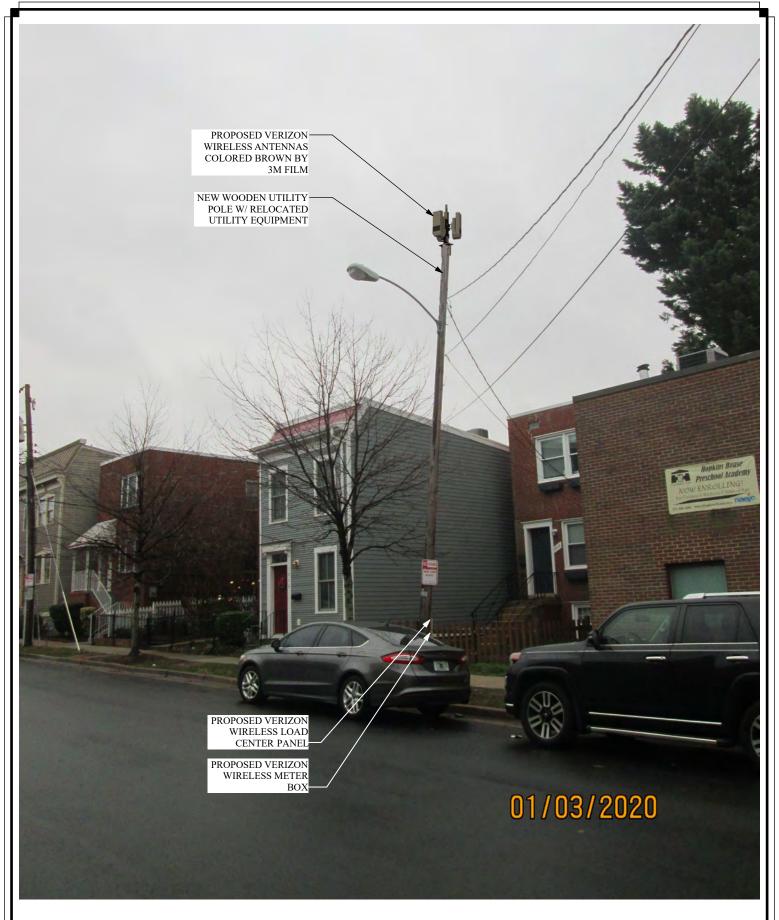






## Old Town N 8 Existing View 2





#### ML?A Buildings Group

MORRIS & RITCHIE ASSOCIATES, INC. 1220-C East Joppa Road, Suite 505 Towson, Maryland 21286 410-821-1690 410-821-1748

#### Old Town N 8 Proposed View 2

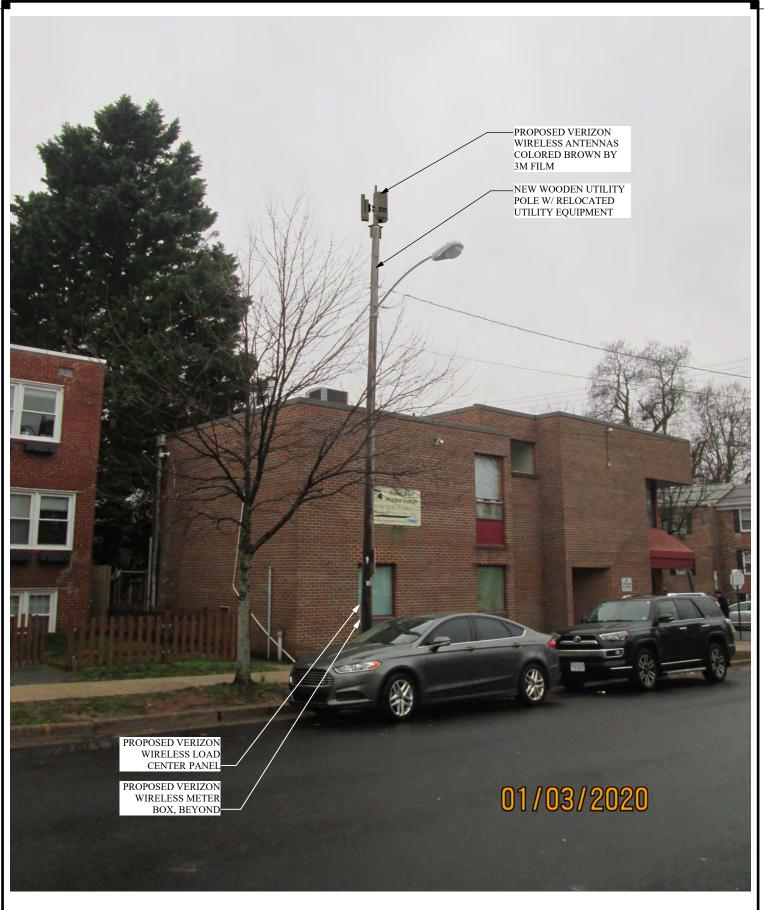






## Old Town N 8 Existing View 3







#### Old Town N 8 Proposed View 3

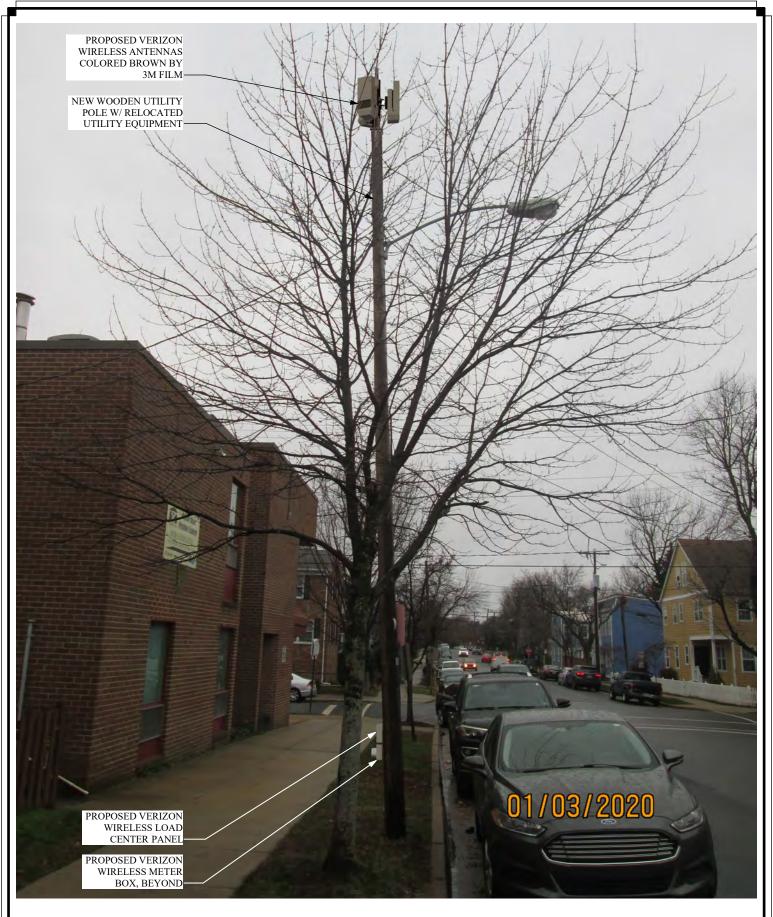






## Old Town N 8 Existing View 4







#### Old Town N 8 Proposed View 4

