

ISSUE: Certificate of Appropriateness for alterations (small cell antenna)

APPLICANT: Cellco Partnership dba Verizon Wireless

LOCATION: Old and Historic Alexandria District
Dominion Energy utility pole in right-of-way near 300 South Washington Street

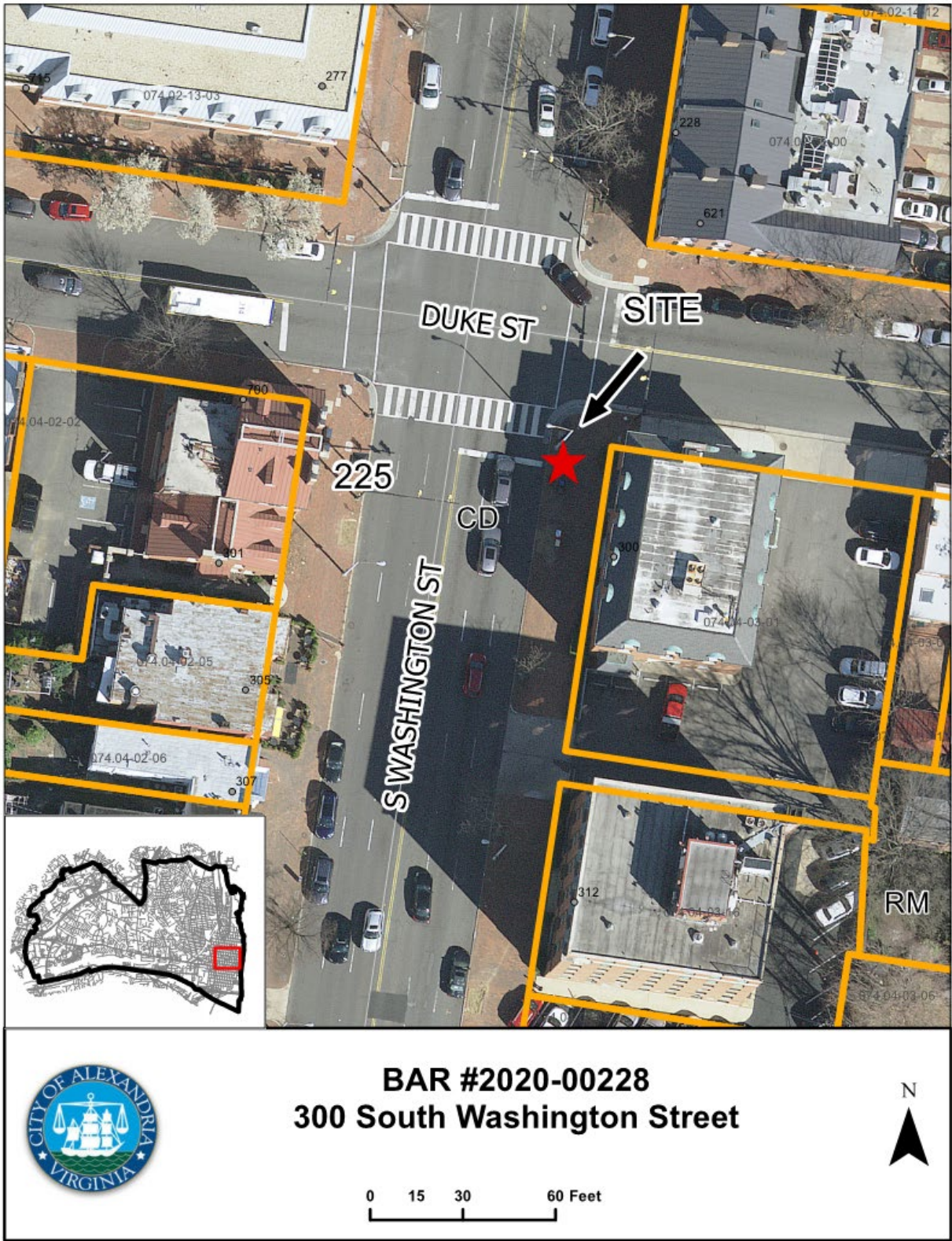
ZONE: CD/Commercial Downtown Zone

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 (including signs). 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.
5. **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 12-month period.
6. **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 Virginia Department of Historic Resources (VDHR) prior to initiating any work to determine whether the proposed project may qualify for such credits.



I. APPLICANT'S PROPOSAL

The applicant is requesting a Certificate of Appropriateness to replace the existing metal pole in the right-of-way in front of the parcel at 300 South Washington Street with a new metal pole.

- The existing 35' high pole will be replaced with a new 38' high pole located within 2' of the existing pole.
- 5G small cell facility measuring approximately 3'8" high will be mounted on top of the pole.
- Verizon wireless meter box and center panel will be mounted on the pole, starting at 4'-6" from grade. Cabling will be run through the hollow interior of the pole.
- Cubic volume of the antennas is 2.5 cubic feet.
- All features of the wireless facility will be colored matched to the pole.
- All existing utilities and signage on the pole will be relocated to the new pole.

Site context

The subject pole sits at the southeast corner of Duke and South Washington streets in front of a three-story commercial building. There are historic buildings on the NE and SW corners of this intersection and a large five-story mid-1970s commercial building diagonal from the metal pole.

II. HISTORY

300 South Washington Street is a three-story brick commercial and office building that was designed by Milton Grigg and constructed in **1964** according to plans approved by the Board of Architectural Review on February 12, 1964. Milton Grigg, an Alexandria native, was one of the original architects for Colonial Williamsburg, later establishing his own firm and practicing for nearly 50 years. Grigg was responsible for numerous restoration, preservation and new construction projects throughout Alexandria, including the restoration of Ramsay House at the corner of King and North Fairfax Streets (1946-1956) and the design of the Parish Halls for Christ Church on North Washington Street (1950) and St. Paul's Episcopal Church on South Pitt Street (1947).

III. ANALYSIS

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.

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 Old and Historic Alexandria District unless and until an application for a certificate of appropriateness shall have been approved..."

While this is the first time the BAR is seeing a replacement metal pole staff has no objection to the modestly taller pole or the installation of the small cell facility equipment in this location. The metal poles are hollow allowing for the conduit to run through the interior of the pole, which results in a more streamlined appearance. The new equipment will also be color matched to the pole to help provide a degree of camouflage. 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 41'-7" will adversely impact the integrity of the historic district. Staff notes that the current pole is not listed in the licensing agreement the applicant has with the City but will be covered by the franchise agreement which will be brought to City Council for approval this fall. Further, the applicant must apply for a Right-of-Way permit through T&ES at which time staff will inspect the location and develop specific conditions. They will consider such things as ADA accessibility, sidewalk widths, tree conflicts and location of equipment boxes.

Staff recommends approval of the application, as submitted.

STAFF

Stephanie Sample, Historic Preservation Planner, Planning & Zoning
Tony LaColla, AICP, Land Use Services Division Chief, Planning & Zoning

IV. CITY DEPARTMENT COMMENTS

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 38.0 and overall height with equipment 41.67feet
- 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.
No trees near by
- 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 will be metal

Code Administration

A building permit and plan review are required prior to construction.

Transportation and Environmental Services

CONDITIONS

- R-1 The building permit must be approved and issued prior to the issuance of any permit for demolition, if a separate demolition permit is required. (T&ES)
- R-2 Applicant shall be responsible for repairs to the adjacent city right-of-way if damaged during construction activity. (T&ES)
- R-3 No permanent structure may be constructed over any existing private and/or public utility easements. It is the responsibility of the applicant to identify any and all existing easements on the plan. (T&ES)

FINDINGS:

- F-1 After review of the information provided, an approved grading plan is not required at this time. Please note that if any changes are made to the plan it is suggested that T&ES be included in the review. (T&ES)

CODE REQUIREMENTS

- C-1 The applicant shall comply with the City of Alexandria's Solid Waste Control, Title 5, Chapter 1, which sets forth the requirements for the recycling of materials (Sec. 5-1-99). (T&ES)
- C-2 The applicant shall comply with the City of Alexandria's Noise Control Code, Title 11, Chapter 5, which sets the maximum permissible noise level as measured at the property line. (T&ES)
- C-3 All secondary utilities serving this site shall be placed underground. (Sec. 5-3-3) (T&ES)
- C-4 Any work within the right-of-way requires a separate permit from T&ES. (Sec. 5-2) (T&ES)
- C-5 All improvements to the city right-of-way such as curbing, sidewalk, driveway aprons, etc. must be city standard design. (Sec. 5-2-1) (T&ES)

Alexandria Archaeology

No archaeological oversight required.

National Park Service

No comments received.

V. ATTACHMENTS

1 – Supplemental Materials

2 – Application for BAR2020-00228: 300 South Washington Street

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: _____

- ☐ Yes ☐ No Is there an historic preservation easement on this property?
☐ Yes ☐ No If yes, has the easement holder agreed to the proposed alterations?
☐ Yes ☐ No Is there a homeowner's association for this property?
☐ Yes ☐ No If yes, has the homeowner's association approved the proposed alterations?

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

NATURE OF PROPOSED WORK: *Please check all that apply*

- ☐ NEW CONSTRUCTION
☐ EXTERIOR ALTERATION: *Please check all that apply.*

☐ awning
☐ doors
☐ lighting
☐ other _____

☐ fence, gate or garden wall
☐ windows
☐ pergola/trellis

☐ HVAC equipment
☐ siding
☐ painting unpainted masonry

☐ shutters
☐ shed

☐ ADDITION
☐ DEMOLITION/ENCAPSULATION
☐ SIGNAGE

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/A
- ☐ ☐ Survey plat showing the extent of the proposed demolition/encapsulation.
☐ ☐ 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.

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, windows, 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.
- ☐ ☐ An official survey plat showing the proposed locations of HVAC units, fences, and sheds.
- ☐ ☐ 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: Joshua Schakola

Printed Name: _____

Date: _____

OWNERSHIP AND DISCLOSURE STATEMENT

Use additional sheets if necessary

1. Applicant. 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. Property. 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. Business or Financial Relationships. 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 the 12-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.

_____	_____	<i>Joshua Schakola</i>
Date	Printed Name	Signature

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR TO THE CONTRACT SHALL NOT EXCLUDE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE VERIZON REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE TO THE MANUFACTURER'S VENDOR'S SPECIFICATIONS UNLESS OTHERWISE NOTED OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPON REQUEST WITH THE BEST REVISIONS AND THE FIELD CONDITIONS AND SPECIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE 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.
10. 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.
11. 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 OR ABOUT THE PROPERTY.
12. 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 RFQ PACKAGE, PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SLUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY THE VERIZON REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. IF THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE VERIZON REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
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.
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 PROPOSED REPAIR REQUIREMENTS STIPULATED BY THE VZW CONSTRUCTION ENGINEER.
18. CONTRACTOR IS RESPONSIBLE FOR STORAGE OF ALL MATERIALS PROVIDED BY VERIZON, AND IS LIABLE FOR THOSE MATERIALS ONCE PICKED UP FROM THE WAREHOUSE.
19. CONTRACTOR SHALL PERFORM A PUNCH WALK WITH VZW CONSTRUCTION & OPERATION REPRESENTATIVE PRIOR TO DECLARING CONSTRUCTION COMPLETE.
20. GENERAL CONTRACTOR SHALL PROVIDE A 10LBS. DRY-CHEMICAL FIRE EXTINGUISHER ON SITE DURING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE FIRE EXTINGUISHER FROM SITE.

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY, SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PROJECT. ALL WORKMAN SHALL BE PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF THE WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DOCUMENTS AND/OR OMISSIONS OF THE ARCHITECT/ENGINEER SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ALL OMISSIONS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND SUPPLIES DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE START OF WORK AND BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/ VENDOR'S SPECIFICATIONS UNLESS OTHERWISE NOTED OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF THE LATEST REVISIONS AND ADDENDUMS WITH ALL CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY DEFINING THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE PROJECT BY THE STATE, ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS, CURBING, ETC. DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE TRASH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. DETAILS OF EQUIPMENT TO BE INCLUDED IN CONSTRUCTION REMOVALS SHALL BE LEFT IN GOOD AND WORKING CONDITION WITHOUT PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY THE VERIZON 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 UNLESS THE CONFLICT WITH THE VERIZON IS RESOLVED BY THE VERIZON REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
16. ALL UNISTRUT HARDWARE AND OUTDOOR JUNCTION BOXES SHALL BE HOT DIPPED GALVANIZED. FOR JUNCTIONS OF GALVANIZED ITEMS, FIRST COAT SHALL BE COLD GALVANIZED AND SECOND COAT SHALL BE MARINE GRADE GALVANIZED.
17. RETURN ANY UNUSED MATERIALS WITH REQUIRED DOCUMENTATION TO THE VERIZON WAREHOUSE WITHIN 14 DAYS OF PROJECT COMPLETION. THE CONTRACTOR NEEDS TO BE ACCOMPANIED WITH AN RMA FORM AND PACKAGING REQUIREMENTS STIPULATED BY THE VZN CONSTRUCTION ENGINEER.
18. CONTRACTOR IS RESPONSIBLE FOR STORAGE OF ALL MATERIALS PROVIDED BY VERIZON, AND IS LIABLE FOR THOSE MATERIALS ONCE PICKED UP FROM THE WAREHOUSE.
19. CONTRACTOR SHALL PERFORM A PUNCH WALK WITH VZN CONSTRUCTION & OPERATION REPRESENTATIVE PRIOR TO DECLARING CONSTRUCTION COMPLETE.
20. GENERAL CONTRACTOR SHALL PROVIDE A 10LB. DRY-CHEMICAL FIRE EXTINGUISHER ON SITE DURING CONSTRUCTION. UPON COMPLETION OF ALL WORK, CONTRACTOR SHALL REMOVE FIRE EXTINGUISHER FROM SITE.

INDEX OF DRAWINGS

C5-1	SITE LOCATION AND VICINITY PLAN, INDEX OF DRAWINGS, AND CODE ANALYSIS
C-1	SITE PLAN
C-2	SITE DETAILS
TMP-1	TRANSPORTATION MANAGEMENT PLAN
TMP-2	TRANSPORTATION MANAGEMENT PLAN
S-1	STRUCTURAL SECTIONS AND DETAILS
S-2	GENERAL NOTES
E-1	ROUTING SITE PLAN
E-2	SPECIFICATIONS, SYMBOLS LIST, PANEL SCHEDULE AND DETAILS
E-3	POWER PLAN, POWER RISER, DETAILS, AND NOTES
E-4	GROUNDING DIAGRAM, DETAILS, AND NOTES
E-5	DIAGRAMS

CODE ANALYSIS

APPLICABLE BUILDING CODE:	IBC 2015
USE GROUP:	UTILITY (U)
CONSTRUCTION TYPE:	IIB
UTILITY COMPANY:	DOMINION

<h2 style="margin: 0;">PROJECT DESCRIPTION</h2>	
<p>THIS PROJECT CONSISTS OF THE INSTALLATION OF VERIZON WIRELESS TELECOMMUNICATIONS EQUIPMENT ON A PROPOSED LIGHT POLE TO REPLACE EXISTING. THE ASSOCIATED ANTENNAS WILL BE MOUNTED ON THE PROPOSED LIGHT POLE AT A RAD CENTER OF 40'-2".</p>	
<h2 style="margin: 0;">DIRECTIONS TO SITE</h2>	
<p>FROM JUNCTION DRIVE:</p> <ul style="list-style-type: none"> - TURN LEFT ONTO HENKELS LANE - TAKE RAMP ON LEFT FOR MD-32 EAST - TAKE EXIT #10C RAMP ON RIGHT FOR BALTIMORE WASHINGTON PARKWAY SOUTH - TAKE EXIT #1A RAMP ON LEFT AND FOLLOW SIGNS FOR I-295 SOUTH - TAKE EXIT #1177-B RAMP ON RIGHT FOR US-1 NORTH - TURN RIGHT ONTO VA-236/ DUKE STREET - TURN RIGHT ONTO VA-400/ SOUTH WASHINGTON STREET - DESTINATION WILL BE ON THE LEFT 	
<h2 style="margin: 0;">VERIZON WIRELESS REVIEW</h2>	
BUILDING OWNER	DATE
ENGINEERING	DATE
OPERATIONS	DATE
CONSTRUCTION	DATE

DIRECTIONS TO SITE

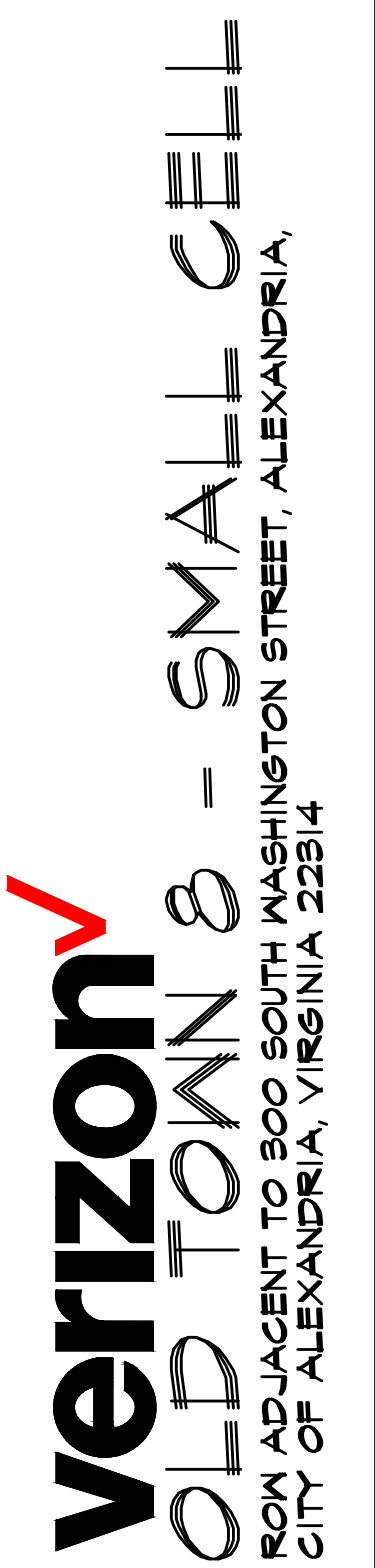
- FROM JUNCTION DRIVE:
 - TURN LEFT ONTO HENKELS LANE
 - TAKE RAMP ON LEFT FOR MD 32 EAST
 - TAKE EXIT #100 RAMP ON RIGHT FOR BALTIMORE WASHINGTON PARKWAY SOUTH
 - TAKE EXIT #1A RAMP ON LEFT AND FOLLOW SIGNS FOR I-295 SOUTH
 - TAKE EXIT #117B-C RAMP ON RIGHT FOR US-1 NORTH
 - TURN LEFT ONTO VA-236 / DUKE STREET
 - TURN RIGHT ONTO VA-400/ SOUTH WASHINGTON STREET
 - DESTINATION WILL BE ON THE LEFT

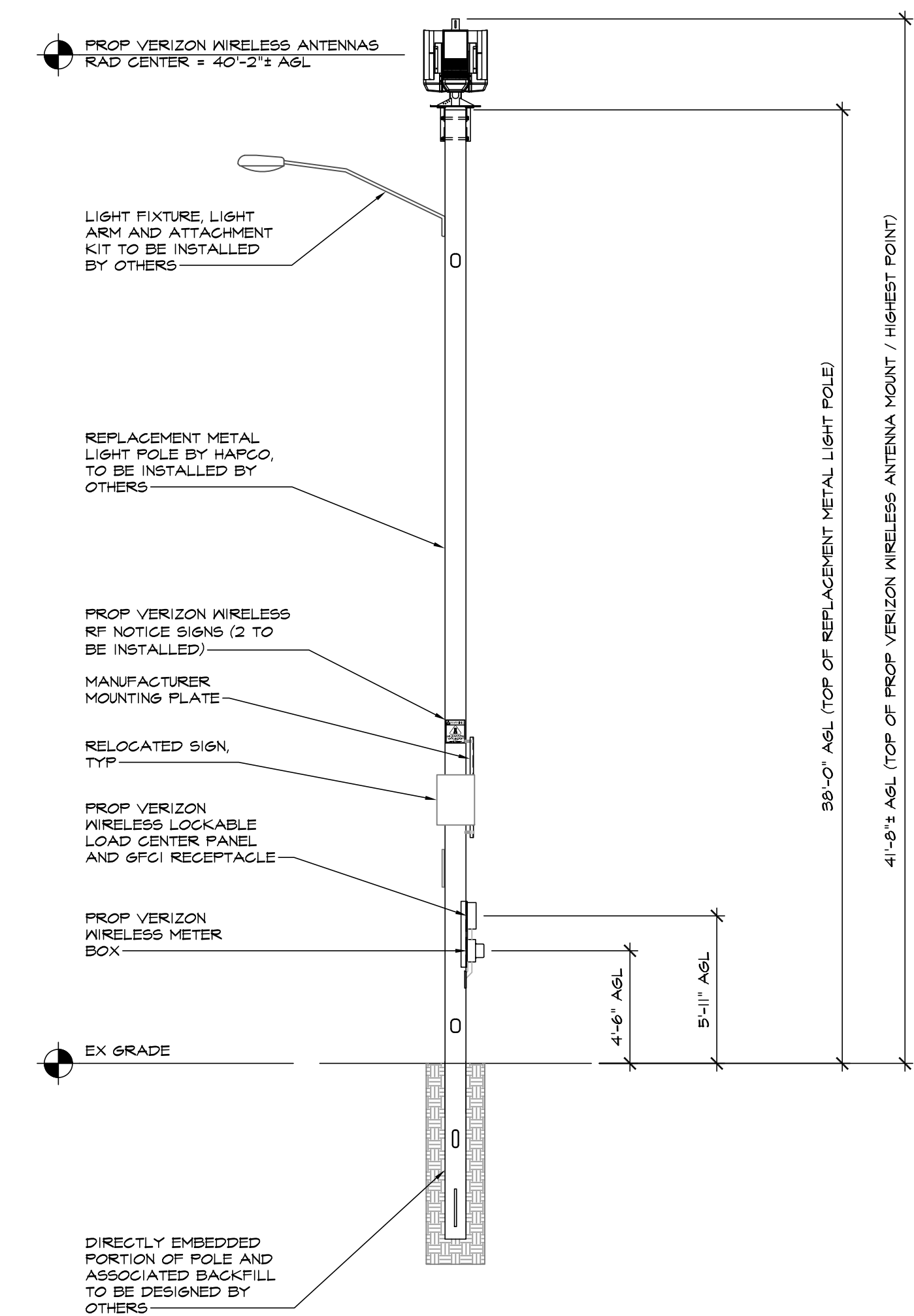
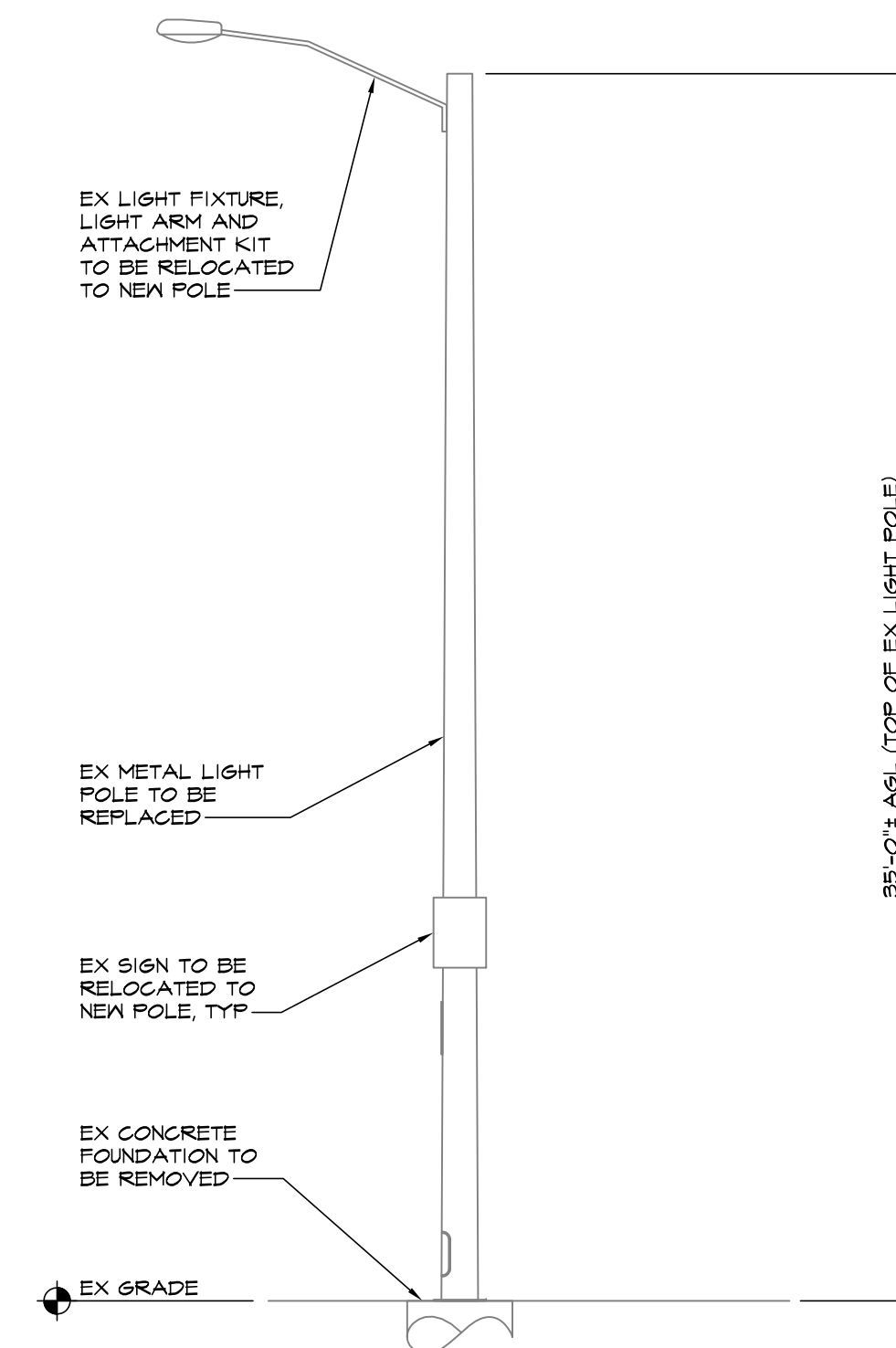
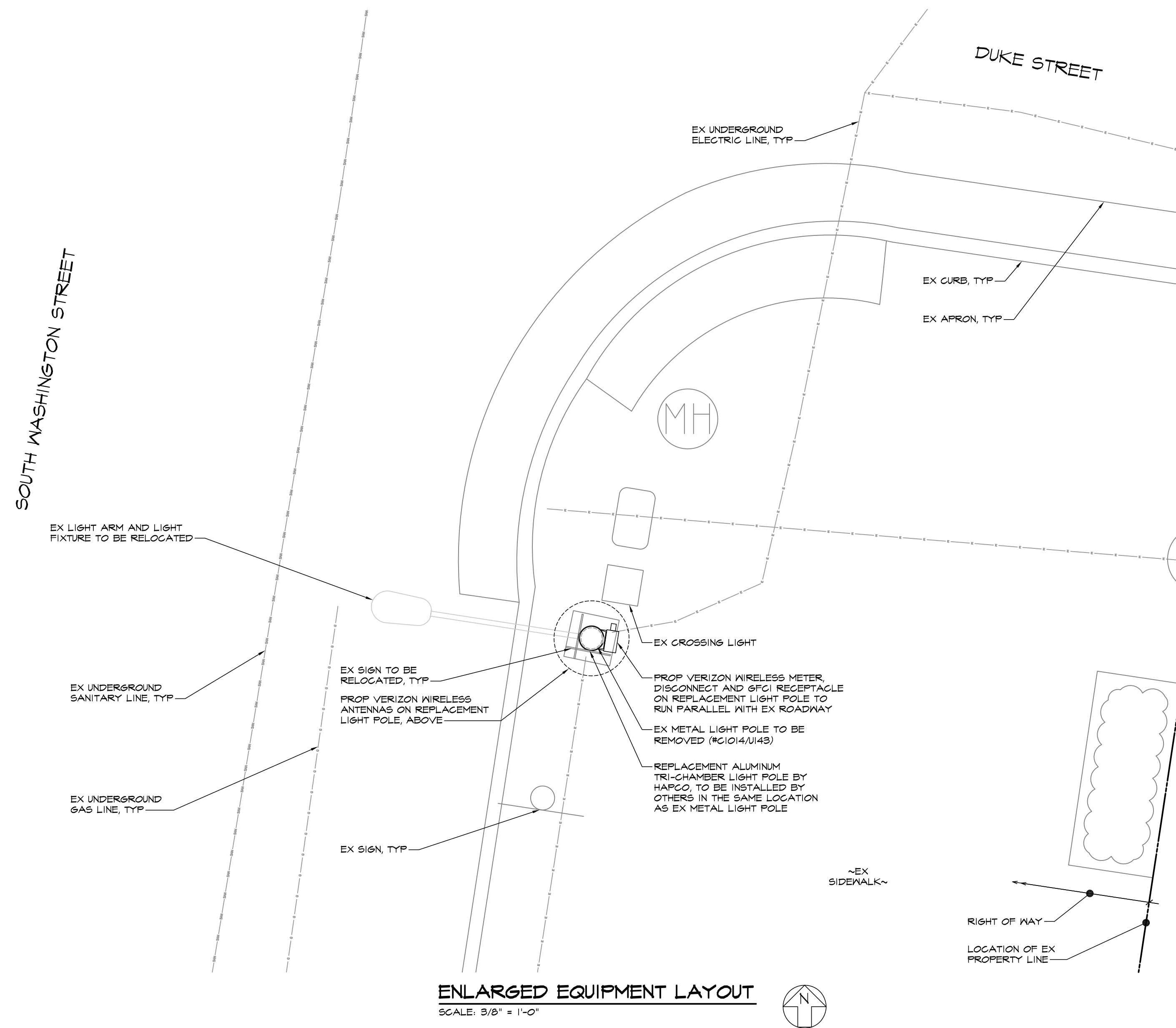
BUILDING OWNER	DATE
ENGINEERING	DATE
OPERATIONS	DATE
CONSTRUCTION	DATE

NO.	DESCRIPTION	DATE
	PERMIT DWGS.	4/21/20

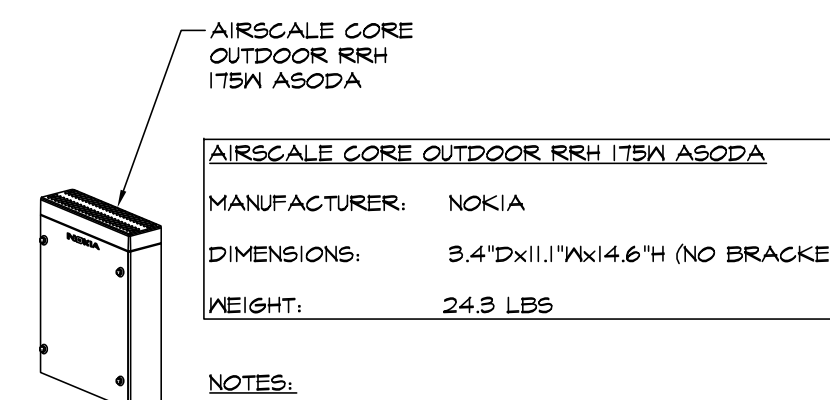
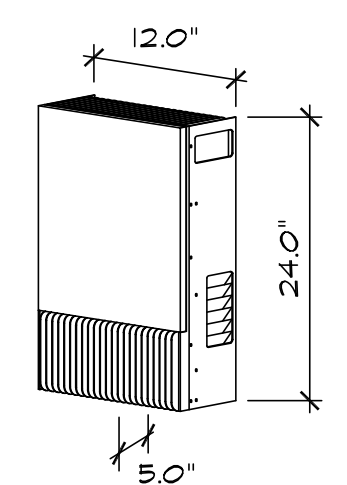
PROJECT NO:19126W

TITLE:





VOLUMETRIC CALCULATIONS			
ANTENNA VOLUMETRIC CALCULATION		EQUIPMENT VOLUMETRIC CALCULATION	
NOKIA AEBJ (3 ANTENNAS, 0.83 CU FT EACH)	2.50 CU FT	SQUARE D BOX No. 2R LOAD CENTER PANEL	0.28 CU FT
TOTAL	2.50 CU FT	200 AMP RINGLESS HORN OVERHEAD METER SOCKET NOKIA ASODA RRH (3 UNITS, 0.92 CU FT EACH)	0.96 CU FT
		TOTAL	1.18 CU FT



Know what's **below**.
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WORKING DAYS NOTICE

THIS DRAWING DOES NOT INCLUDE NECESSARY
COMPONENTS FOR CONSTRUCTION SAFETY. ALL
CONSTRUCTION MUST BE DONE IN COMPLIANCE
WITH THE OCCUPATIONAL SAFETY AND HEALTH
ACT OF 1970 AND ALL RULES AND REGULATIONS
THERE TO APPLICANT



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410-821-1748 Fax



verizon
OLD TOWN 8 - A - SMALL CELL
ROW ADJACENT TO 300 SOUTH WASHINGTON STREET
ALEXANDRIA, VA 22314 (CITY OF ALEXANDRIA)

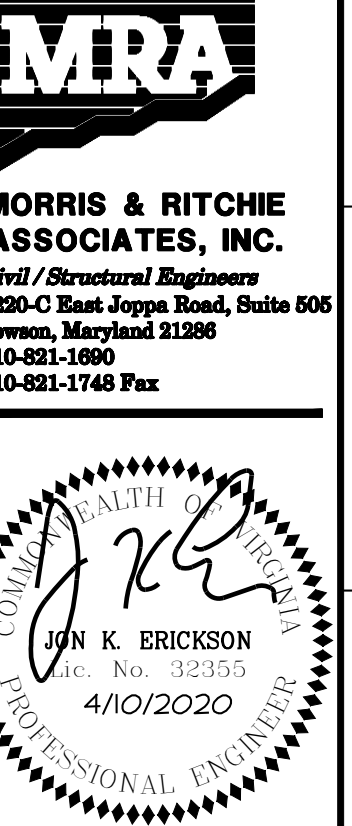
REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT DWGS	04/21/20

DESIGNED BY:	RJD
DRAWN BY:	SEA
PROJECT NO:	10421.2110
DATE:	04/02/2020
SCALE:	AS NOTED
TITLE:	

Site Details

SHEET:

C-2



1. THE PROJECT'S TMP PLAN HAS BEEN DESIGNED IN CONFORMANCE WITH TMP TYPE A.
2. WORK ZONE AREAS SHALL BE SETUP AS SHOWN ON TTC'S ON THIS PLAN SHEET. THE WORK ZONE LENGTHS AND WIDTHS MAY VARY BY LOCATION IN ACCORDANCE WITH APPLICABLE TTC.
3. CONSTRUCTION HOURS: 9AM-3:30PM MONDAY-THURSDAY. 9AM-2PM FRIDAY.
NO WORK ON NIGHTS, WEEKENDS OR HOLIDAYS. NO LANE CLOSURES WILL BE ALLOWED FROM NOON ON THE DAY BEFORE A HOLIDAY UNTIL NOON ON THE WORKDAY FOLLOWING THE HOLIDAY.
HOLIDAYS INCLUDE ALL STATE AND FEDERAL HOLIDAYS.
4. EXISTING INTERSECTIONS: THE NEAREST INTERSECTION IS DUKE ST AND N WASHINGTON ST. ALL EXISTING INTERSECTIONS ARE TO REMAIN OPEN AND FUNCTIONAL DURING CONSTRUCTION

EXISTING PEDESTRIAN ACCESS POINTS: THERE IS EXISTING SIDEWALK LOCATED WITHIN THE PROJECT LIMITS.

EXISTING BUS STOPS: THERE IS ONE BUS STOP LOCATED WITHIN THE PROJECT LIMITS. BUS STOP WILL BE RELOCATED DURING WORK.

EXISTING ENTRANCES: THERE ARE COMMERCIAL ENTRANCES LOCATED NEAR THE CONSTRUCTION LIMITS.
5. THE TRAFFIC ON THE ROADWAY CONSIST PRIMARILY OF PASSENGER VEHICLES AND PEDESTRIANS. THE SURROUNDING AREA IS COMMERCIAL.
6. THE CONTRACTOR SHALL:

7. THIS TMP PLAN IS INTENDED AS A GUIDE. IF THE CONTRACTOR IS TO DEVIATE FROM THE APPROVED TMP, A NEW OR REVISED TMP MUST BE SUBMITTED TO COUNTY FOR REVIEW AND APPROVAL.
8. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADD ANY ADDITIONAL TEMPORARY MEASURES NECESSARY TO FACILITATE PROPER, POSITIVE DRAINAGE FOR THE DURATION OF CONSTRUCTION.
9. WHERE GROUP 2 CHANNELIZING DEVICES ARE USED TO SEPARATE THE CONSTRUCTION AREA AND TRAFFIC, A MINIMUM CLEAR ZONE AREA SUCH AS DEFINED IN THE VWAPM IS TO BE MAINTAINED.
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. CONTRACTOR TO COORDINATE WITH CITY OF ALEXANDRIA FOR BUS STOP RELOCATION.

13. 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.
 - B. IMMEDIATELY REPORT ANY TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE.
 - C. 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.

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.

1. The control of traffic through the intersection in order of preference should be:
 - a. Obtain the services of law enforcement personnel.
 - b. Detour the traffic through roads to other roads and streets as approved and directed by the Regional Traffic Engineer.
 - c. Place a state certified flagger on each leg of the intersection controlling a single lane of traffic.Appropriate signing as shown should be used for law enforcement and flagging operations. For detour signs refer to ITE-34
2. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.

4. If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing or oscillating light should be parked 80'-120' in advance of the first work crew.

5. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber ~~flashing or oscillating~~ lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.

6. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.

7. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.

2. *Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.*
3. *Audible information devices should be considered where midblock closings and changed crosswalk 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.*

5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
6. For nighttime conditions, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
7. Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary sidewalk to guide or direct pedestrians.

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

[illegible]

The diagram illustrates two configurations for a Type 3 Barricade at a street intersection:

- SIDEWALK DETOUR:** This configuration shows a street with a closed section on the left side. Traffic is diverted onto the sidewalk. Signs include:
 - Upstream: "ROAD CLOSED" (diamond) and "ROAD WORK AHEAD" (diamond).
 - At the closed section: "SIDEWALK CLOSED CROSS HERE" (rectangle with diagonal stripes) and "SIDEWALK CLOSED" (rectangle with diagonal stripes).
 - On the sidewalk: "KEEP RIGHT" (rectangle) and "KEEP LEFT" (rectangle).
 - Downstream: "ROAD WORK AHEAD" (diamond).
- SIDEWALK DIVERSION:** This configuration shows a street with a closed section on the right side. Traffic is diverted onto the sidewalk. Signs include:
 - Upstream: "ROAD CLOSED" (diamond) and "ROAD WORK AHEAD" (diamond).
 - At the closed section: "SIDEWALK CLOSED CROSS HERE" (rectangle with diagonal stripes) and "SIDEWALK CLOSED" (rectangle with diagonal stripes).
 - On the sidewalk: "KEEP RIGHT" (rectangle) and "KEEP LEFT" (rectangle).
 - Downstream: "ROAD WORK AHEAD" (diamond).

Additional details include:

- Dimensions: 48" MIN. for the sidewalk width and 6' & 7' for the detour/diversion area.
- Sign codes: R4-11P, R4-11L, R4-V7R, and R4-V7L.
- Notes: "SEE NOTES 6 & 7" are referenced for additional specifications.

REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT DWGS	04/02/20

TITLE:

MANAGEMENT PLAN NOTES

TMP-1

TRANSPORTATION MANAGEMENT PLAN



verizon
OLD TOWN 8 - SMALL CELL
RON ADJACENT TO 300 SOUTH WASHINGTON STREET
ALEXANDRIA, VA 22314 (CITY OF ALEXANDRIA)

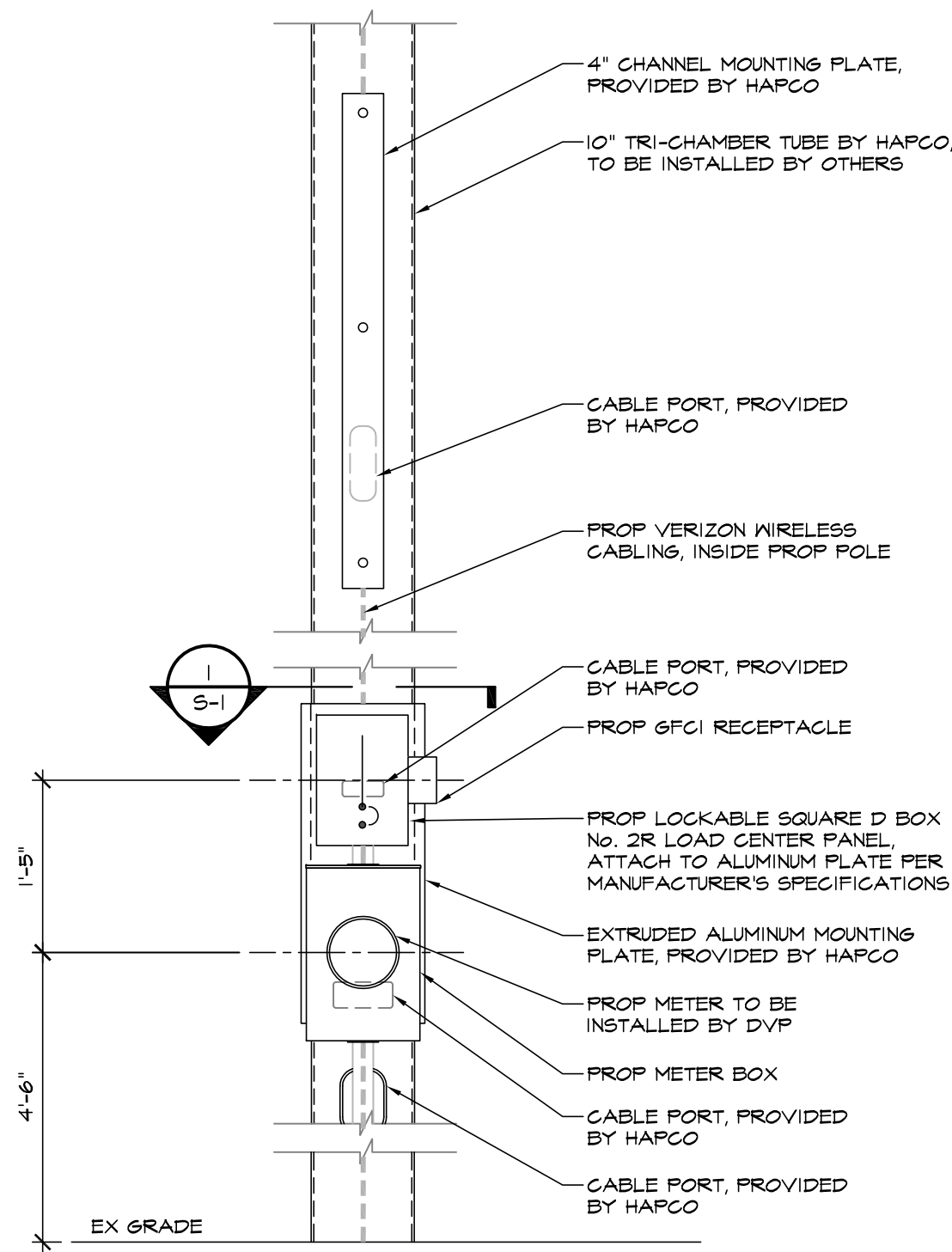
DESCRIPTION		DATE
PERMIT DWGS		04/02/20

SIGNED BY:	JKE
AWN BY:	ML
PROJECT NO:	10427.2110
TE:	4/10/2020
ALE:	AS NOTED
E:	

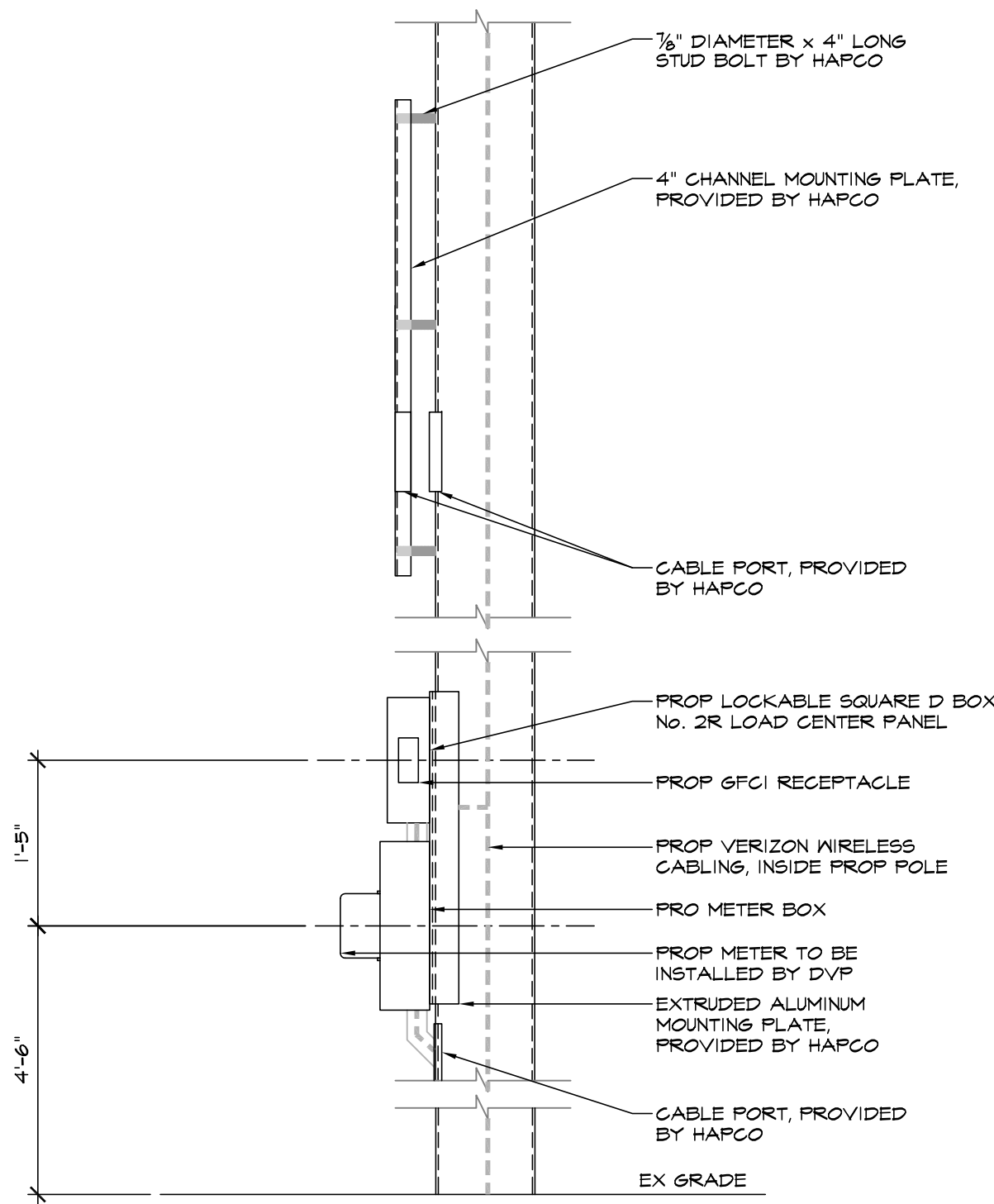
TRANSPORTATION MANAGEMENT PLAN

EET:

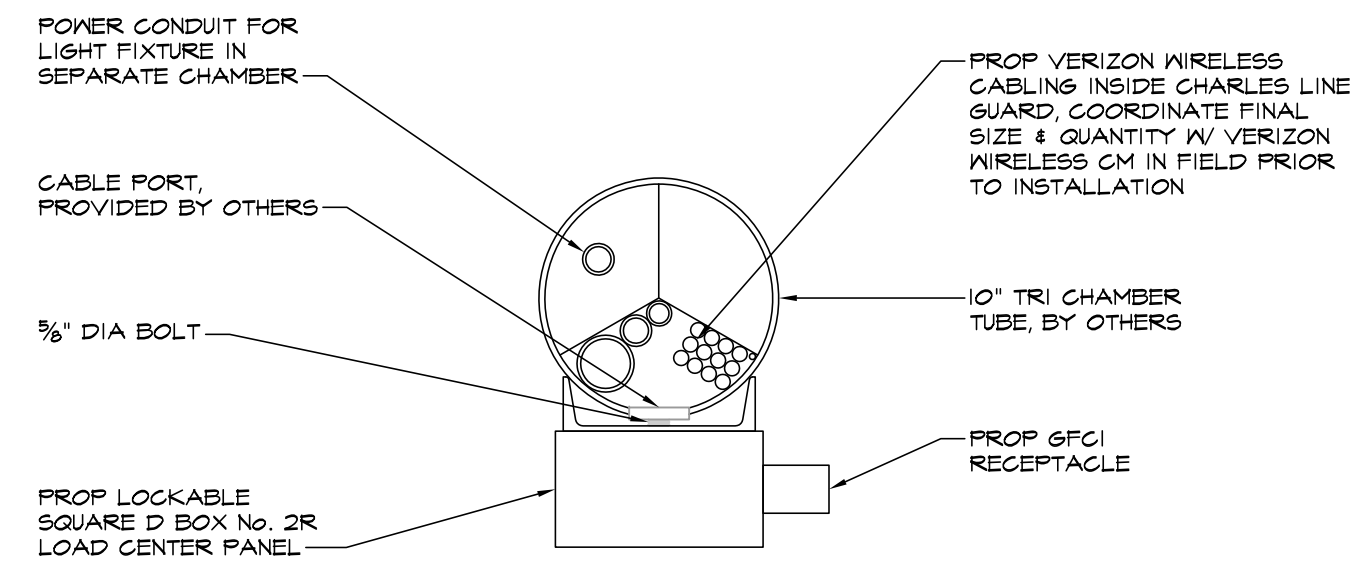
TMP-2



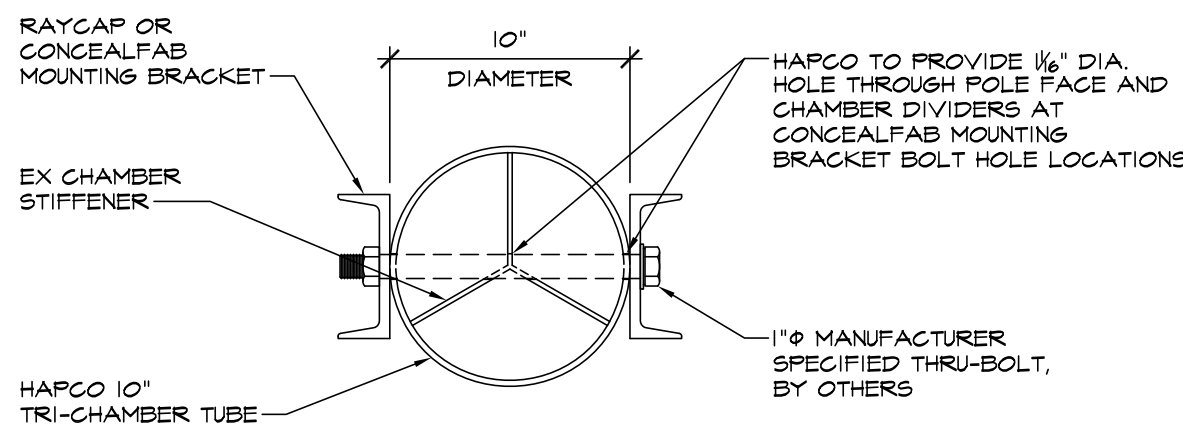
A POLE EQUIPMENT FRONT ELEVATION
SCALE: 3/4" = 1'-0"



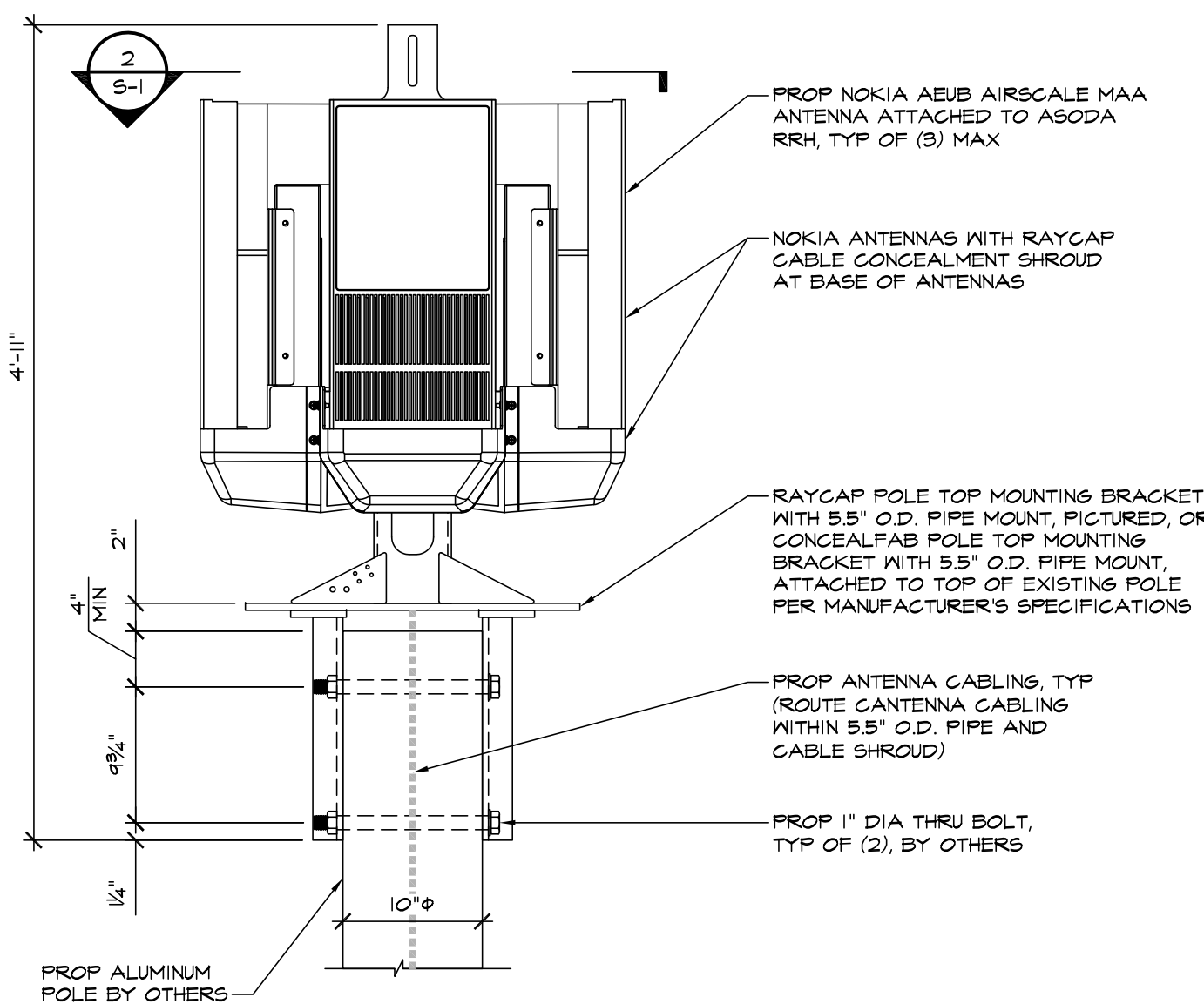
B POLE EQUIPMENT SIDE ELEVATION
SCALE: 3/4" = 1'-0"



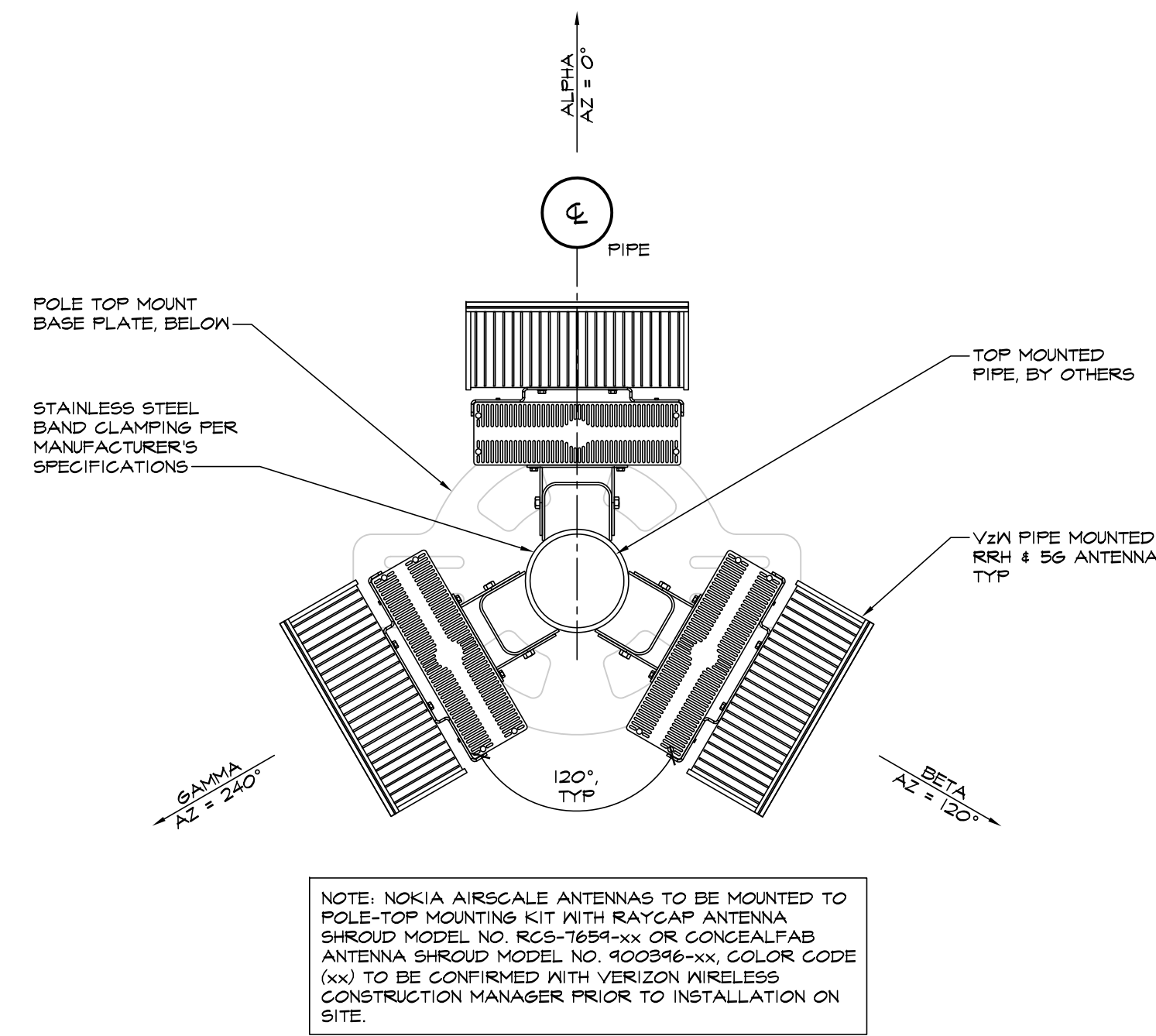
I EQUIPMENT MOUNT
SCALE: 1 1/2" = 1'-0"



C TYPICAL THRU-BOLTING DETAIL
SCALE: 1-1/2" = 1'-0"



D 5G PANEL ANTENNA MOUNT
SCALE: 1" = 1'-0"



2 5G PANEL ANTENNA SECTION
SCALE: 1-1/2" = 1'-0"



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WITH THE OCCUPATIONAL SAFETY AND HEALTH
ACT OF 1970 AND ALL RULES AND REGULATIONS
THERE TO APPURTENANT.



**MORRIS & RITCHIE
ASSOCIATES, INC.**
Civil / Structural Engineers
1320-C East Joppa Road, Suite 505
Towson, Maryland 21286
410-821-1690
410-821-1748 Fax



verizon
OLD TOWN 8 - A - SMALL CELL
ROW ADJACENT TO 300 SOUTH WASHINGTON STREET
ALEXANDRIA, VA 22314 (CITY OF ALEXANDRIA)

REVISIONS:		
NO.	DESCRIPTION	DATE
1	PERMIT DWGS	04/21/20

DESIGNED BY: RJD
DRAWN BY: SEA
PROJECT NO: 10427.2710
DATE: 04/02/2020
SCALE: AS NOTED

TITLE:
**Structural
Sections &
Details**

SHEET:

S-1

GENERAL STRUCTURAL NOTES

BUILDING CODES

- A. ALL CONSTRUCTION SHALL CONFORM WITH:
- THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE 2015 CONSTRUCTION CODE (VA USB-C 2015)
 - THE INTERNATIONAL BUILDING CODE (IBC 2015) AND ALL SUBSEQUENT SUPPLEMENTS & DOCUMENTS.
 - LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS (AASHTO LRFDLTS-1 2015)
 - THE TIA STANDARD (TIA-222-S) AND ALL SUBSEQUENT SUPPLEMENTS
- 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 HEIGHT OF THE EQUIPMENT INDICATED ON THE DRAWINGS.
- B. WIND LOAD DESIGN DATA
- | | |
|--|----------|
| BASIC WIND SPEED (ULTIMATE 3-SECOND GUST): | 115 MPH |
| BASIC WIND SPEED (NOMINAL 3-SECOND GUST): | 84.1 MPH |
| RISK CATEGORY: | II |
| WIND EXPOSURE CATEGORY: | B |
- C. SEISMIC LOAD DESIGN DATA
- | | |
|-----------------|----------|
| NOT APPLICABLE: | Se < 1.0 |
|-----------------|----------|

MISCELLANEOUS

- A. THE CONTRACTOR SHALL INSTALL THE EMBEDDED STEEL POLE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- B. THE CONTRACTOR SHALL VERIFY IN SITU GEOTECHNICAL CONDITIONS PRIOR TO CONSTRUCTION TO ENSURE ASSUMPTIONS MADE BY POLE MANUFACTURER AS PART OF THE ANALYSIS AND DESIGN OF STEEL POLE ARE NOT INVALIDATED. IF DISCREPANCIES ARE NOTED BETWEEN THE EXISTING SITE CONDITIONS AND THE STRUCTURAL ANALYSIS OF THE PROPOSED POLE, THE POLE MANUFACTURER SHALL BE NOTIFIED AND CLARIFICATION SHALL BE OBTAINED PRIOR TO START OF CONSTRUCTION.
- C. THE CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION AND PREVENT DAMAGE TO THEM. SHOULD DAMAGE OCCUR TO ANY UTILITIES, THE CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE.
- D. IN CASES OF CONFLICT BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS OR EXISTING CONDITIONS, CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONALS AND OBTAIN CLARIFICATION PRIOR TO BIDDING AND PROCEEDING WITH WORK.
- E. THE CONTRACTOR SHALL NOT SUBMIT REPRODUCTIONS OF THE STRUCTURAL CONTRACT DOCUMENTS AS SHOP DRAWINGS.
- F. SCALES SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- G. APPLY DETAILS, SECTIONS AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, DETAIL TITLE OR NOTE.
- H. PROVIDE SHORINGS AND PROTECTION FOR EXCAVATION AS NECESSARY TO PREVENT CAVING AND COMPLY WITH ALL APPLICABLE OSHA RULES AND REGULATIONS.
- I. 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.

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 BOLTS SHALL CONFORM TO ASTM A325. ALL NUTS SHALL CONFORM TO ASTM A563. ALL WASHERS SHALL CONFORM TO ASTM F436.
- D. ALL SHOP WELDS SHALL BE PERFORMED BY CERTIFIED WELDERS AND CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AND BRIDGES. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED UNLESS OTHERWISE INDICATED.
- E. 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.
- F. STEEL MEMBERS, FABRICATIONS AND ASSEMBLIES EXPOSED TO WEATHER OR INDICATED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER FABRICATION. ALL BOLTS, SCREWS, WASHERS & NUTS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM F2329.
- G. PROVIDE HOLES IN STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1/8" DIA. AND SHALL BE SMOOTH. THESE DRAINS MUST BE KEPT CLEAN AND OPEN.
- H. 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.
- I. SHOW ALL COPIES, 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.

ALUMINUM

- A. ALL ALUMINUM CONSTRUCTION SHALL CONFORM TO THE 2015 EDITION OF THE ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL (ADM 2015).
- B. ALUMINUM POLE SHALL BE EXTRUDED FROM 6005A-T5 ALUMINUM WITH THE FOLLOWING MINIMUM PROPERTIES:
- | | |
|----------------------------------|------------|
| TENSILE ULTIMATE STRENGTH, Ftu: | 38 KSI |
| TENSILE YIELD STRENGTH, Fty: | 31 KSI |
| COMPRESSION YIELD STRENGTH, Fcy: | 31 KSI |
| MODULUS OF ELASTICITY, E: | 10,000 KSI |
- C. UNLESS NOTED OTHERWISE, ALL ALUMINUM STRUCTURAL CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER GALVANIZED ASTM F3125 GRADE A325 BOLTS WITH 3/4" DIAMETER HOLES ON GAGE, FIELD DRILL AS REQUIRED. SEE STRUCTURAL AND MISCELLANEOUS STEEL NOTES FOR ADDITIONAL INFORMATION.

DOMINION SPECIFICATIONS:

- A. A 4"x11" RF NOTICE SIGN MUST BE INSTALLED ON BOTH SIDES OF THE POLE A MAXIMUM OF ONE (1) FOOT ABOVE THE UPPERMOST EQUIPMENT AFFURTENANCE. THIS SIGN MARKS THE POINT WHERE RF EXPOSURE LEVELS MAY EXCEED FCC OET-68 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 C45.2 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 ANTENNAS. THE DISCONNECT SHOULD BE A STANDARD NEMA TYPE HINSED 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 C45.2 STANDARDS.
- D. MAXIMUM OF FOUR (4) ANTENNAS ARE ALLOWED PER POLE.
- E. A DOMINION DISTRIBUTION REPRESENTATIVE MUST APPROVE ALL ANTENNA ATTACHMENT POLES.
- F. INSTALLERS WORKING IN THE AREA OF THE POLE ABOVE THE NORMAL COMMUNICATIONS SPACE MUST MEET OSHA 1910.269 REQUIREMENTS.
- G. AN ANTENNA GROUND WIRE AND GROUNDING ELECTRODE IS REQUIRED. THIS GROUND SHALL BE BONDED TO THE COMPANY GROUND WIRE.
- H. SERVICE WILL BE CONNECTED BY VERIZON IN COMPLIANCE WITH FILED RATE PLAN.
- I. 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.
- J. 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.
- K. THE METER BASE, EQUIPMENT BRACKET, AND DISCONNECT MAY BE MOUNTED AT OPERATIONAL HEIGHT THAT: A. THE EQUIPMENT BRACKET DOES NOT OBSTRUCT A WALKWAY OR IS SUBJECT TO VEHICULAR TRAFFIC; B. THE EQUIPMENT BRACKET CAN NOT BE USED ALONE OR IN CONJUNCTION WITH A FENCE, FEDESTAL, ETC. AS A CLIMBING AID.
- L. FOR SAFETY PURPOSES DEVICES WITH LEAD ACID BATTERIES SHALL NOT BE USED.

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 NOT 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.



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verizon
OLD TOWN 8 - A - SMALL CELL
ROW ADJACENT TO 300 SOUTH WASHINGTON STREET
ALEXANDRIA, VA 22314 (CITY OF ALEXANDRIA)

REVISIONS:

NO.	DESCRIPTION	DATE
1	PERMIT DWGS	04/21/20

DESIGNED BY: RJD

DRAWN BY: SEA

PROJECT NO: 10427.2710

DATE: 04/02/2020

SCALE: AS NOTED

TITLE:

General Notes

SHEET:

S-2



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

PROTECT YOURSELF. GIVE THREE
WORKING DAYS NOTICE.

THIS DRAWING DOES NOT INCLUDE NECESSARY
COMPONENTS FOR CONSTRUCTION SAFETY. ALL
CONSTRUCTION MUST BE DONE IN COMPLIANCE
WITH THE OCCUPATIONAL SAFETY AND HEALTH
ACT OF 1970 AND ALL RULES AND REGULATIONS
THERE TO APPURTENANT.

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
↓	↓	↓	↓	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓

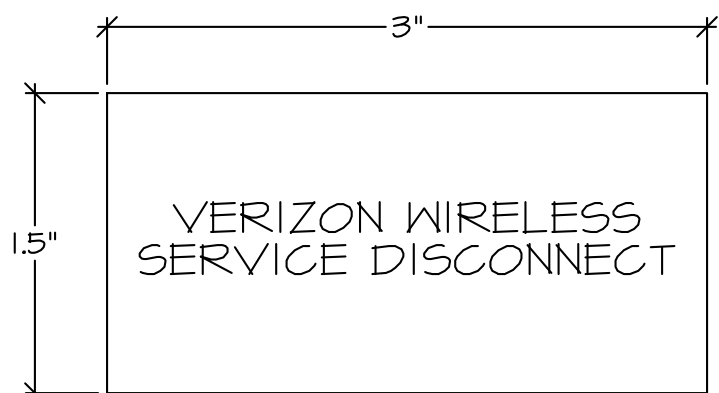
2. SECTION 16050 - BASIC ELECTRICAL MATERIALS & METHODS

1. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 P.V.C. ALL CONDUIT ABOVE GRADE SHALL BE NON METALLIC ELECTRIC GRADE OR P.V.C. AS NOTED.
 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 SHALL 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 GRADE GALVANIZING.
 7. ALL METALLIC OBJECTS EXPOSED TO WEATHER SHALL BE GALVANIZED.
- B. WIRES & CABLE:**
1. 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 TO FINAL BOARD TO POINT OF FINAL CONNECTION. AND NO SPICE 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 WHERE APPLICABLE.
- C. DISCONNECTS:**
1. 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.
- D. GROUNDING:**
1. 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, TERMINALS, ETC., FOR CONNECTION OF GROUND WIRE IN ALL DISTRIBUTION EQUIPMENT.
- SECTION 16400 - SERVICE & DISTRIBUTION**
- A. ELECTRICAL SERVICE:**
1. 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".
- B. COMMUNICATIONS SERVICE:**
1. TELEPHONE SERVICE SHALL BE EXTENDED BY THE TELEPHONE COMPANY. PROVIDE SERVICE CONDUITS, 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.

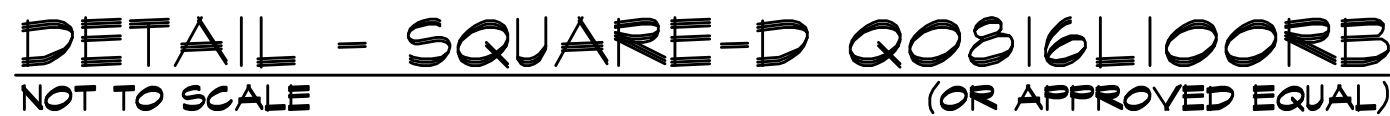
1. A 9"x11" RF NOTICE SIGN MUST BE INSTALLED ON BOTH SIDES OF THE POLE A MINIMUM OF ONE FOOT ABOVE THE UPPERMOST ELECTRIC SUPPLY FACILITIES. THIS SIGN MARKS THE POINT WHERE RF EXPOSURE LEVELS MAY EXCEED FCC QET-65 APPENDIX A LIMITS FOR UNCONTROLLED GENERAL POPULATION EXPOSURE. WORKING ABOVE THIS POINT REQUIRES DE-ENERGIZING THE ANTENNA. THIS SIGN MUST INCLUDE THE STANDARD RF SYMBOL AND STATE "NON RF WORKERS MUST POWER DOWN WHEN CLIMBING ABOVE THIS POINT". THE SIGN SHALL BE 60 MIL LEXAN WITH U.V. INHIBITORS AND SIGNS SHALL ADHERE TO IEEE C45.2 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 C45.2 STANDARDS.
4. THE ANTENNA SHALL BE MOUNTED THE GREATER VALUE OF NESG MINIMUM CLEARANCE OR THE MINIMUM CLEARANCE REQUIRED TO MEET UNCONTROLLED EXPOSURE GUIDELINES AT ANY POINT ABOUT THE ELECTRIC FACILITIES. THE ANTENNA, INCLUDING ATTACHING HARDWARE, SHALL BE MOUNTED A MINIMUM OF 45" ABOVE PRIMARY INSTALLATIONS AND 40" ABOVE SECONDARY INSTALLATIONS. (NESG 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. (NESG 239B, AND NESG 239H4).
7. THE INSTALLATION MUST MEET ALL NESG 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 OSHA 1910.269 REQUIREMENTS.
10. AN ANTENNA GROUND WIRE AND GROUNDING ELECTRODE IS REQUIRED. THIS GROUND SHALL BE BONDED TO THE COMPANY GROUND WIRE.
11. 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. GROUNDING CONDUCTOR 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 DOMINION BLUE BOOK AND NEC CLEARANCE. THEY MAY BE MOUNTED AT OPERATIONAL HEIGHT THAT:
 - A. THE EQUIPMENT BRACKET DOES NOT OBSTRUCT A WALKWAY OR IS SUBJECT TO VEHICULAR TRAFFIC
 - 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 AC 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.

MANUFACTURER	PART #	COMPONENT TYPE	QUANTITY	DIMENSIONS (HxWxD)	WEIGHT
NOKIA	AIRSCALE AEUB & ASODA RRH	ANTENNA/ REMOTE RADIO HEAD	3	23.62"x11.91"x8.11"	68.2 LBS.
SQUARE-D	Q0816L100RB	LOAD CENTER PANEL	1	12.64"x8.90"x4.27"	4.68 LBS.
DOMINION STANDARD	65.T3T000	ELECTRIC METER	1	17.0"x11.0"x5.0"	5.25 LBS.
		CONDUIT CABLING	3±	VARIES	20.0 LBS.
				TOTAL WEIGHT:	239.53 LBS.
				TOTAL VOLUME:	4.80 CU.FT.

NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX UNLESS OTHERWISE INDICATED.

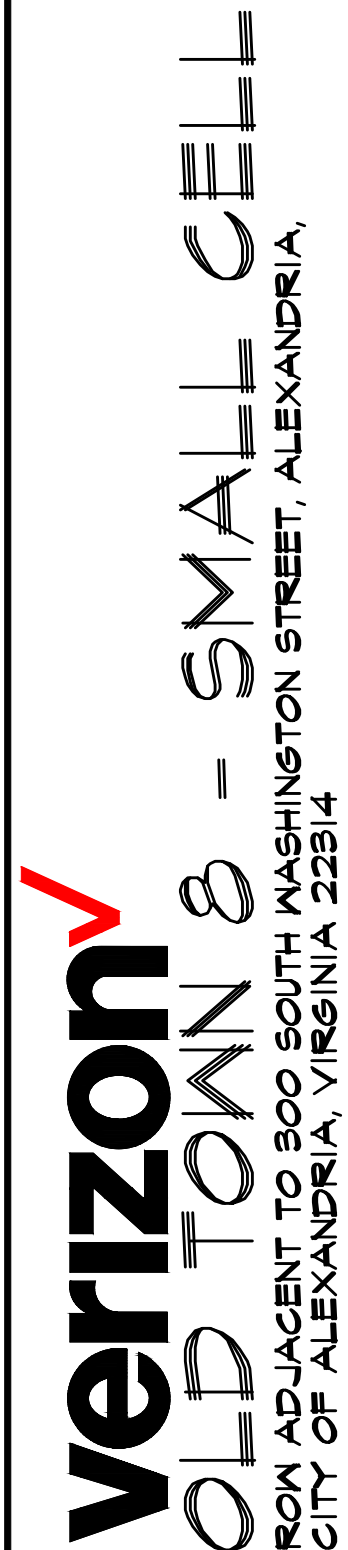
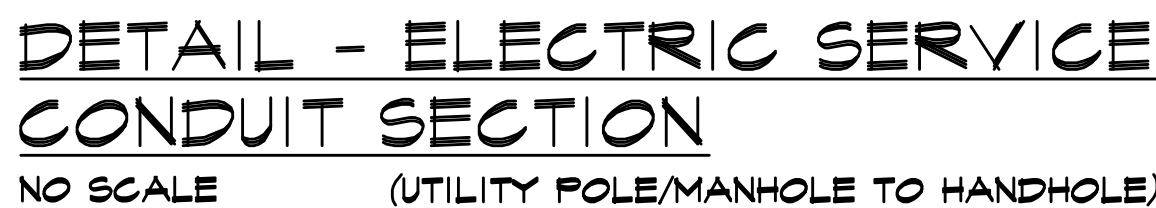
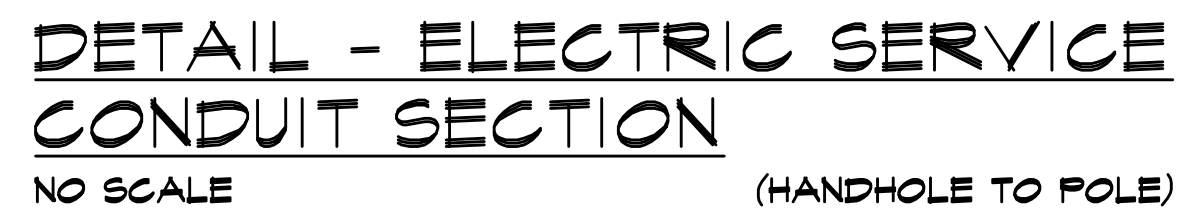


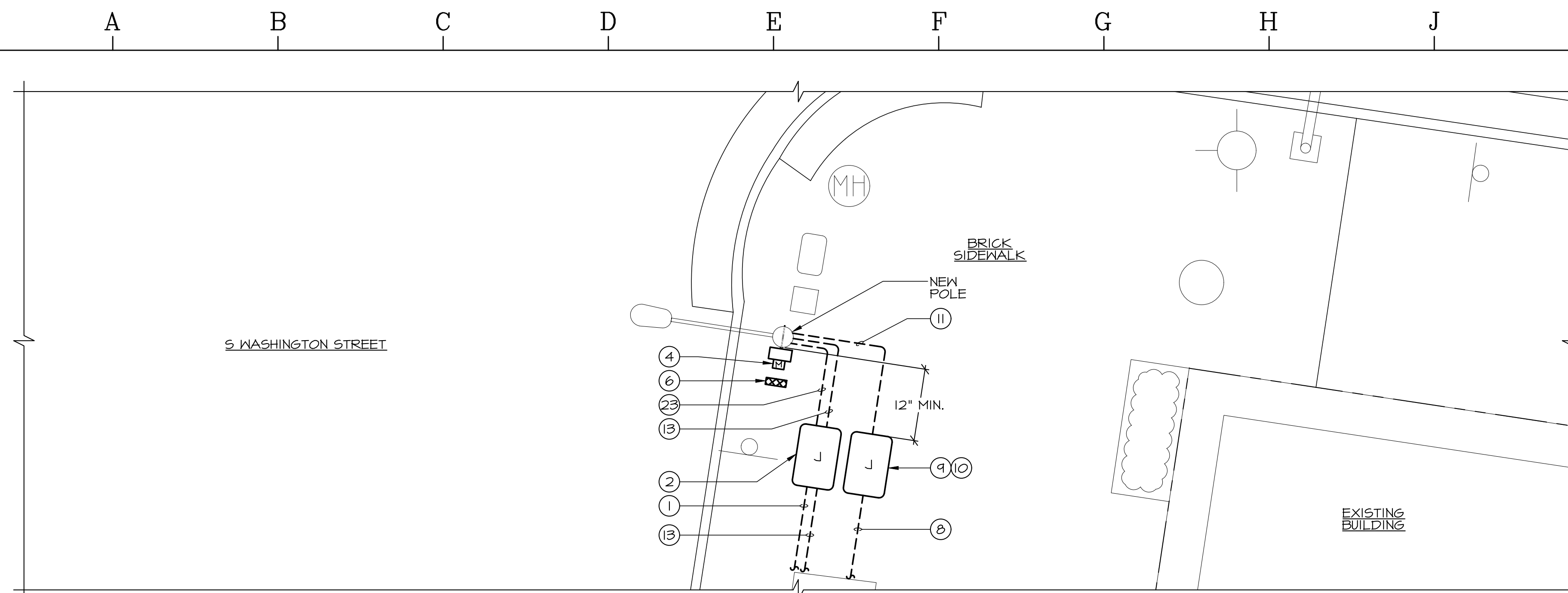
DETAIL - LOAD
CENTER PLACARD
NO SCALE



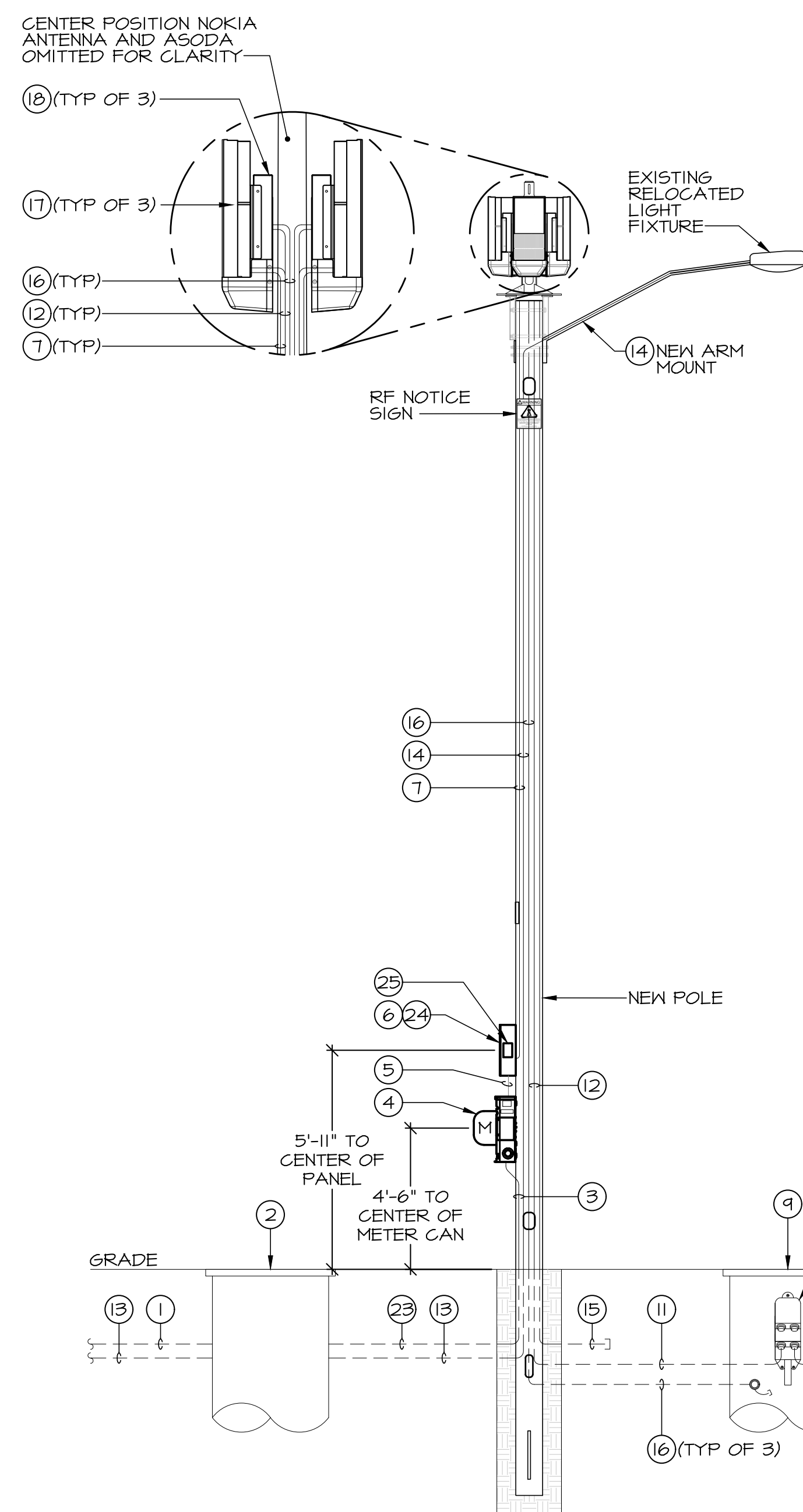
- PANEL SHALL BE LOCKABLE WITH PADLOCK.
- PANEL SHALL BE SERVICE ENTRANCE RATED.
- PANELBOARD SHALL BE EQUIPPED WITH A TYPEWRITTEN DIRECTORY, INDICATING PLAINLY WHAT EACH CIRCUIT OF THE PANEL CONTROLS. THIS SCHEDULE SHALL BE PLACED ON FRONT COVER OF PANEL.
- CONTRACTOR SHALL PROVIDE AND INSTALL 15AMP TANDEM BREAKERS IN SPACES AS SHOWN.

DETAIL - FIBER SERVICE
CONDUIT SECTION
NO SCALE

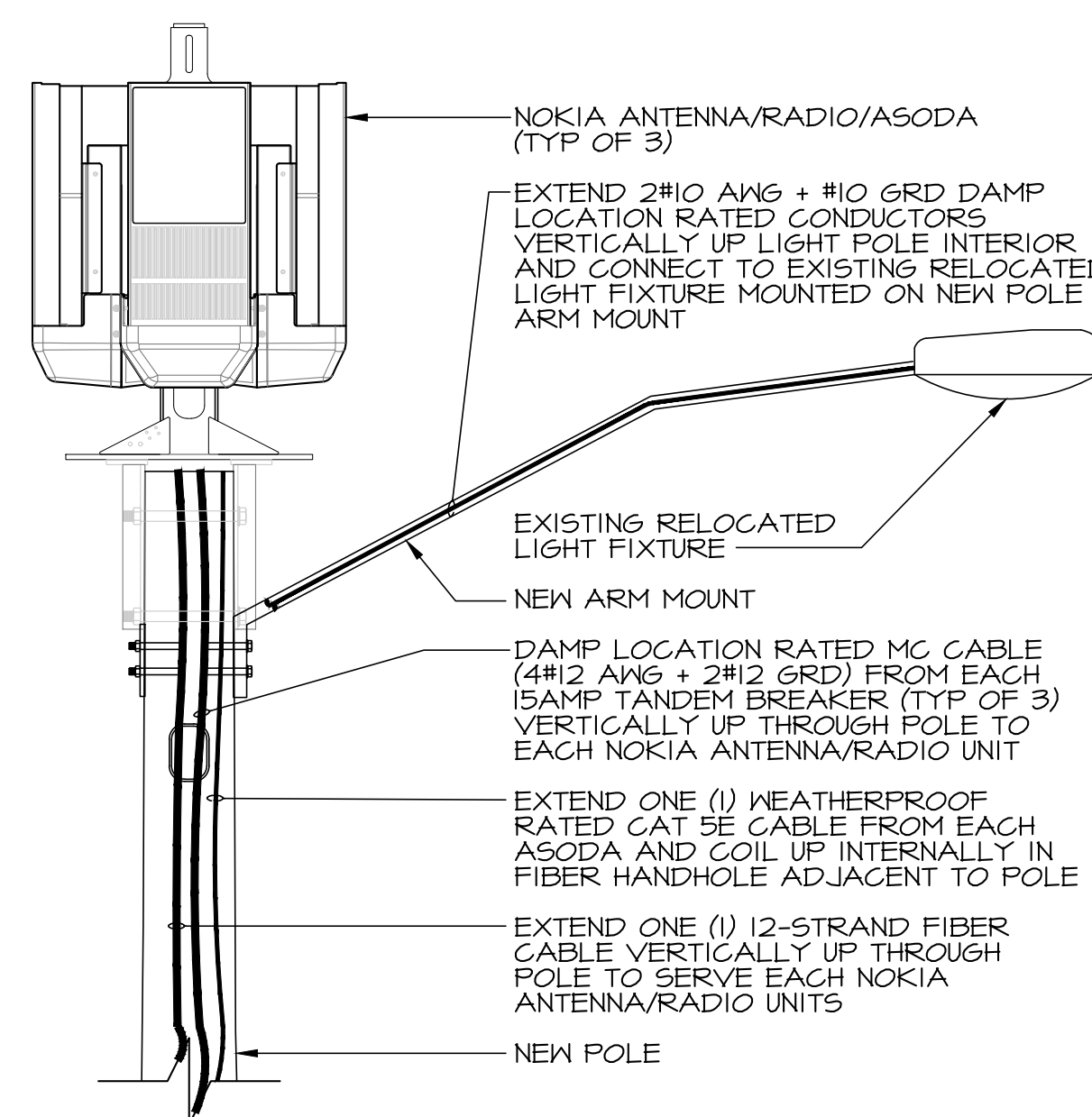
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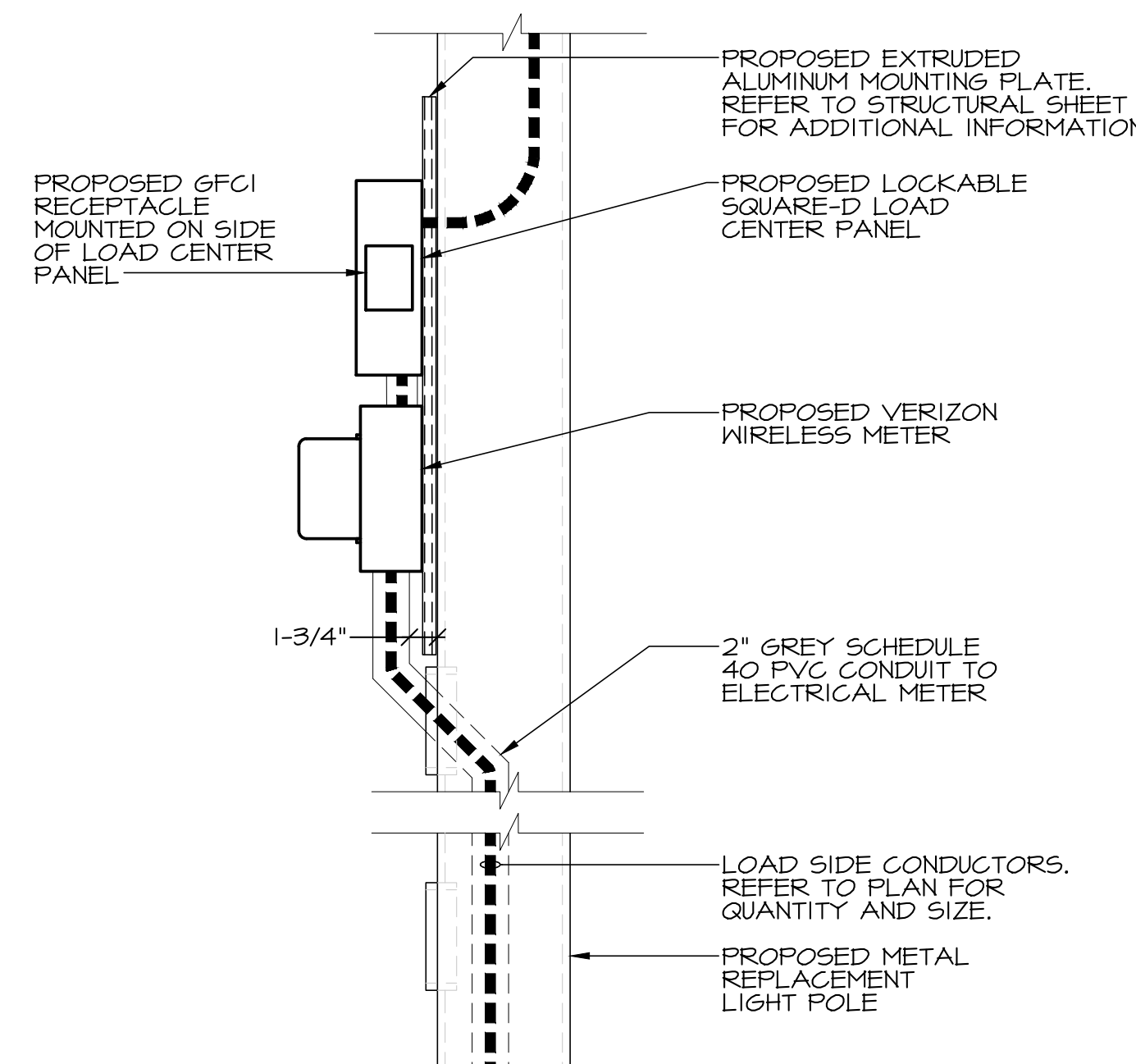
①⑨②① POLE UTILITY PLAN
SCALE: 1/4" = 1'-0"



19 20 21 22 **POWER RISE R DIAGRAM**
NO SCALE



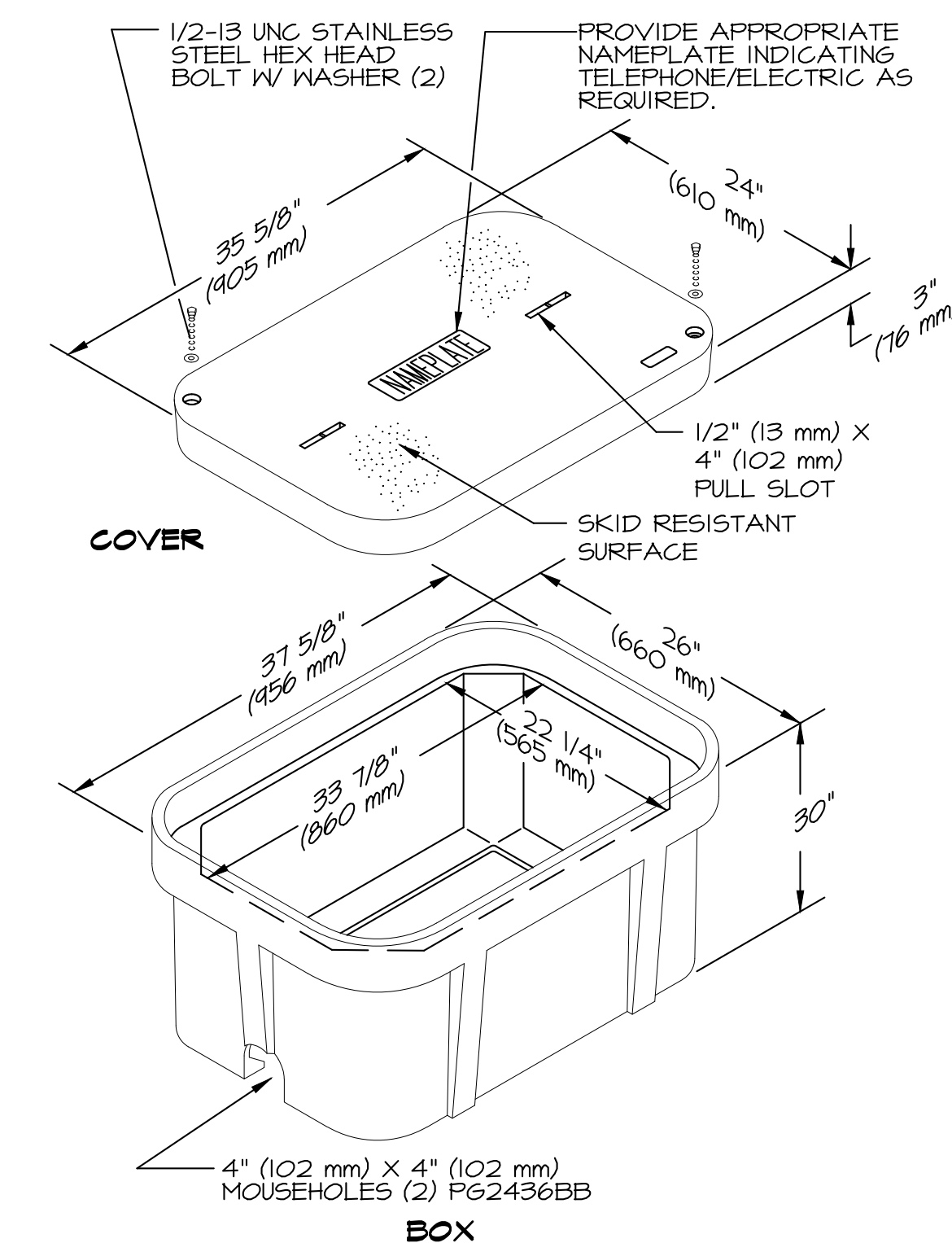
192021 **DETAIL - POLE CABLING**
NO SCALE



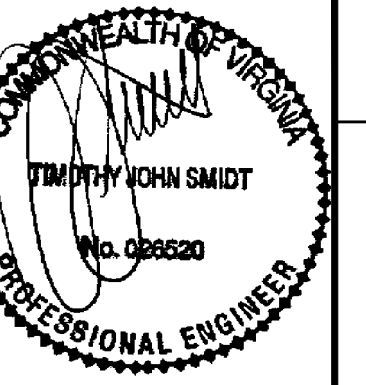
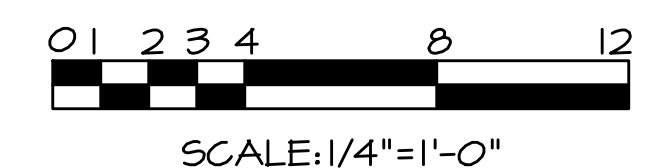
DETAIL - VERTICAL UTILITY COMPANY CONDUIT
NO SCALE

DRAWING NOTES

- (1) CONTRACTOR SHALL EXTEND ONE (1) 4" SCHEDULE 40 PVC CONDUIT BELOW GRADE FROM LOCATION DETERMINED AT TIME OF POWER LASH TO FOWER COMPANY JUNCTION BOX FOR EXTENSION OF ELECTRIC SERVICE CABLES BY UTILITY COMPANY. REFER TO TRENCH DETAIL, SHEET E-2. COORDINATE FINAL ROUTING WITH UTILITY COMPANY REPRESENTATIVE.
- (2) VZW CONTRACTOR INSTALLED 24"x36"x30" DEEP PULLBOX PROVIDED BY OTHERS FOR EXTENSION OF ELECTRIC SERVICE CABLES. PROVIDE 6" OF PEA GRAVEL IN BASE OF BOX. COORDINATE PULLBOX REQUIREMENTS/LOCATION WITH UTILITY COMPANY IN THE FIELD.
- (3) EXTEND DAMP LOCATION RATED 3#1 + #6 GRD - 2" CONDUIT FROM METER CAN ON POLE, THROUGH 2" CONDUIT IN FOUNDATION TO ELECTRIC SERVICE HANDHOLE. COIL 3'-0" OF CONDUCTOR IN BOX.
- (4) PROVIDE WEATHERPROOF 200 AMP RATED UTILITY COMPANY METER CAN MOUNTED ON POLE PER MANUFACTURER'S AND UTILITY COMPANY SPECIFICATIONS. METER GLOBE PROVIDED AND INSTALLED BY UTILITY COMPANY. PROVIDE PHENOLIC NAMEPLATE READING "VERIZON WIRELESS".
- (5) EXTEND 3#6 AWG + #6 GRD - 1" CONDUIT FROM UTILITY COMPANY METER TO PROPOSED SERVICE ENTRANCE RATED LOAD CENTER PANEL MOUNTED ABOVE METER CAN ON POLE.
- (6) PROVIDE AND INSTALL WEATHERPROOF SERVICE ENTRANCE RATED 120/240 VOLT, 10, 3W, 100 AMP M.L.O EIGHT (8) POSITION GO LOAD CENTER PANEL. PROVIDE PHENOLIC NAMEPLATE READING "VERIZON WIRELESS". PROVIDE PHENOLIC NAMEPLATE READING "VERIZON WIRELESS SERVICE DISCONNECT". REFER TO SPECIFICATIONS AND PANEL SCHEDULE, SHEET E-2 FOR ADDITIONAL INFORMATION.
- (7) EXTEND DAMP LOCATION RATED MC CABLE (4#12 AWG + 2#12 GRD) FROM EACH 15AMP TANDEM BREAKER (TYP OF 3) VERTICALLY UP THROUGH INTERIOR OF POLE TO EACH NOKIA ANTENNA/RADIO/ASODA UNIT MOUNTED ON POLE (TYP OF 3). REFER TO PANEL SCHEDULE, SHEET E-2, FOR ADDITIONAL INFORMATION.
- (8) PROPOSED INCOMING FIBER CONDUIT TO FIBER HANDHOLE (PROVIDED AND INSTALLED BY OTHERS) FOR EXTENSION OF VERIZON FIBER.
- (9) VZW CONTRACTOR INSTALLED 24"x36"x30" DEEP JUNCTION BOX PROVIDED BY OTHERS FOR EXTENSION OF TELEPHONE SERVICE CABLES. PROVIDE 6" OF PEA GRAVEL IN BASE OF BOX. COORDINATE PULLBOX REQUIREMENTS/LOCATION WITH UTILITY COMPANY IN THE FIELD.
- (10) VERIZON LANDLINE PROVIDED AND INSTALLED OPTISHEATH MULTIPORT TERMINAL MOUNTED WITHIN FIBER HANDHOLE.
- (11) CONTRACTOR SHALL EXTEND ONE (1) 2" SCHEDULE 40 PVC CONDUIT FROM FIBER HANDHOLE TO LIGHT POLE BASE FOR EXTENSION OF INCOMING VERIZON FIBER.
- (12) EXTEND NECESSARY FIBER JUMPER FROM LIGHT POLE BASE VERTICALLY UP THROUGH INTERIOR OF LIGHT POLE TO EACH NOKIA ANTENNA/RADIO UNIT MOUNTED ON LIGHT POLE.
- (13) VERIZON CONTRACTOR SHALL EXTEND ONE (1) 2" SCHEDULE 40 PVC CONDUIT FROM BASE OF LIGHT POLE TO PROPOSED ELECTRIC HANDHOLE. CONTRACTOR SHALL EXTEND ONE (1) 4" SCHEDULE 40 PVC CONDUIT BELOW GRADE FOR INTERCEPTION OF EXISTING LIGHT POLE LIGHTING CIRCUIT CONDUIT. REFER TO UTILITY CONDUITS DETAIL, E-2.
- (14) EXTEND 2#10 AWG + #10 GRD DAMP LOCATION RATED CONDUCTORS VERTICALLY UP LIGHT POLE INTERIOR AND CONNECT TO EXISTING RELOCATED LIGHT FIXTURE MOUNTED ON NEW POLE ARM MOUNT. COORDINATE FINAL ROUTING OF EXISTING/PROPOSED LIGHTING CIRCUIT WIRING WITH LIGHT POLE OWNER'S REPRESENTATIVE.
- (15) PROVIDE 3/4" SCHEDULE 40 PVC SLEEVE FOR EXTENSION OF GROUND CONDUCTOR. REFER TO GROUNDING DETAILS, SHEET E-4 FOR ADDITIONAL INFORMATION.
- (16) EXTEND ONE (1) WEATHERPROOF RATED CAT 5E CABLE FROM EACH ASODA AND COIL UP INTERNALLY IN FIBER HANDHOLE ADJACENT TO POLE. PROVIDE AND INSTALL RJ45 PLUG KIT WITH CAP TO KEEP CONNECTION WEATHERPROOF. EACH CAT 5E CABLE MUST BE LABELED (TYP OF 3). REFER TO FIBER DIAGRAM DIAGRAM, SHEET E-5.
- (17) VERIZON WIRELESS PROVIDED, CONTRACTOR INSTALLED NOKIA ANTENNA/RADIO UNIT MOUNTED ON POLE.
- (18) VERIZON WIRELESS PROVIDED, CONTRACTOR INSTALLED NOKIA ASODA MOUNTED BEHIND NOKIA ANTENNA/RADIO UNIT ON POLE.
- (19) NOTE TO CONTRACTOR: ELECTRICAL CONDUCTORS BEING EXTENDED VERTICALLY UP INSIDE OF POLE TO SERVE NOKIA RADIOS SHALL BE DAMP LOCATION RATED CONDUCTORS (TYP OF 3).
- (20) CONTRACTOR SHALL REFER TO LATEST EDITION OF VZW FIBER DESIGN STANDARDS FOR FIBER QUANTITIES, ETC.
- (21) VERIZON CONTRACTOR SHALL COORDINATE FINAL AVAILABLE SERVICE CHARACTERISTICS (VOLTAGE, PHASE, ETC.) WITH UTILITY COMPANY PRIOR TO START OF WORK. PREFERRED VOLTAGE IS: 120/240V, 1Ø, ACCEPTABLE VOLTAGE IS: 120/208V, 1Ø.
- (22) LINE SIDE CONDUIT MUST BE GREY 2" PVC AND EXTEND FROM ELECTRICAL PULL BOX TO METER CAN. CONDUIT MUST NOT CONTAIN "LB" FITTINGS ON LINE SIDE AND CAN NOT ENTER REAR OR SIDE OF METER CAN. CONDUIT MUST ENTER BOTTOM OF METER CAN.
- (23) CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 2" SCHEDULE 40 PVC CONDUIT FROM POLE BASE TO PROPOSED ELECTRIC SERVICE HANDHOLE. REFER TO TRENCH DETAIL, SHEET E-2.
- (24) CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) MASTER LOCK BRASS 4 DIGIT PAD LOCK SET TO STANDARD VERIZON WIRELESS COMBINATION. PAD LOCK SHALL BE PLACED THROUGH CLASP ON LOAD CENTER TO PROHIBIT COVER FROM BEING OPENED. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) STANDARD VERIZON WIRELESS FOUR DIGIT CODE. CONTRACTOR CAN'T INSTALL THE COMBINATION LOCK ON THE DISCONNECT UNTIL ALL INSPECTIONS ARE DONE AND FINAL.
- (25) CONTRACTOR SHALL PROVIDE AND INSTALL 15 AMP, DUPLEX, GFCI OUTLET IN SINGLE GANG, WEATHERPROOF, THREADED, BOX WITH STANDARD VERIZON WIRELESS FOUR DIGIT CODE. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) STANDARD VERIZON WIRELESS FOUR DIGIT CODE. CONTRACTOR CAN'T INSTALL THE COMBINATION LOCK ON THE GFCI OUTLET UNTIL ALL INSPECTIONS ARE DONE AND FINAL.



DETAIL - JUNCTION BOX
NO SCALE

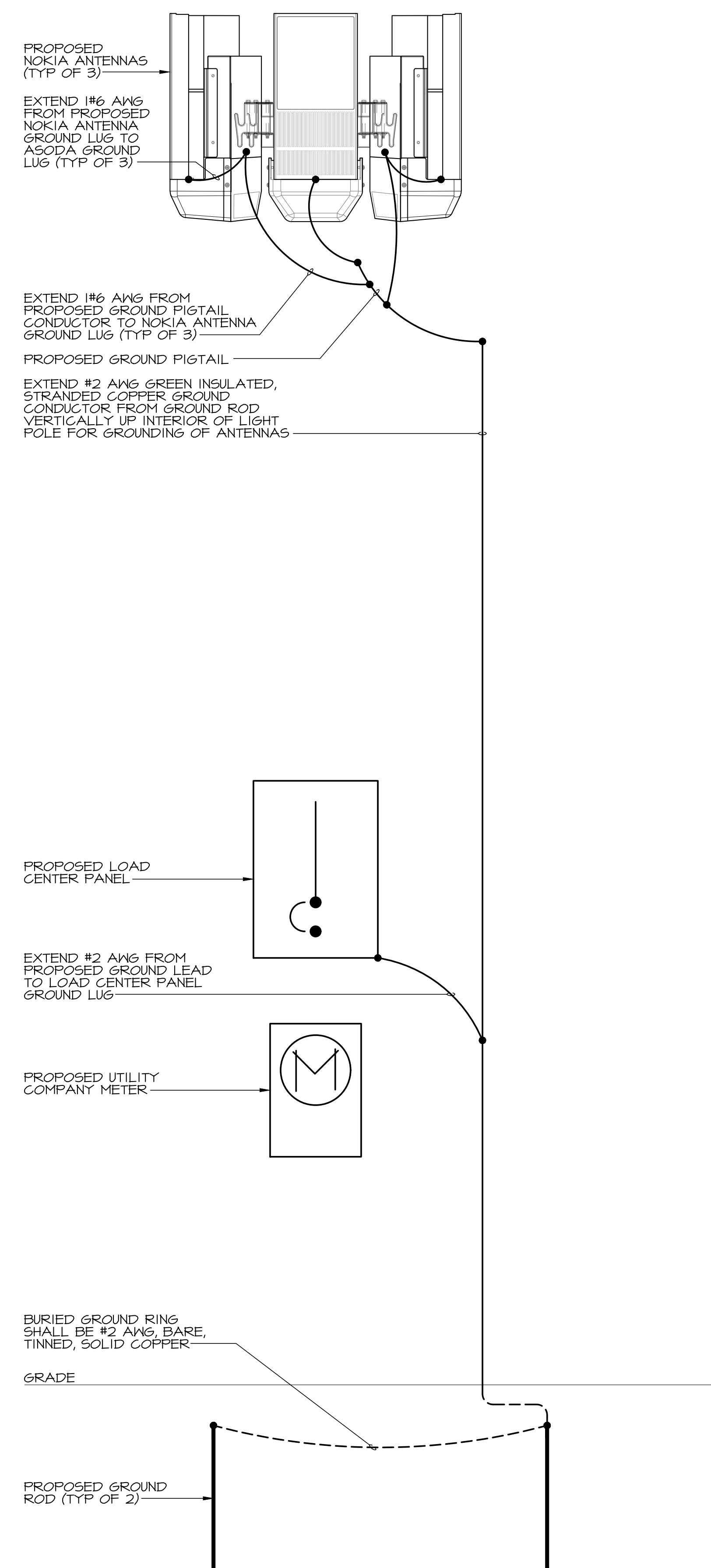
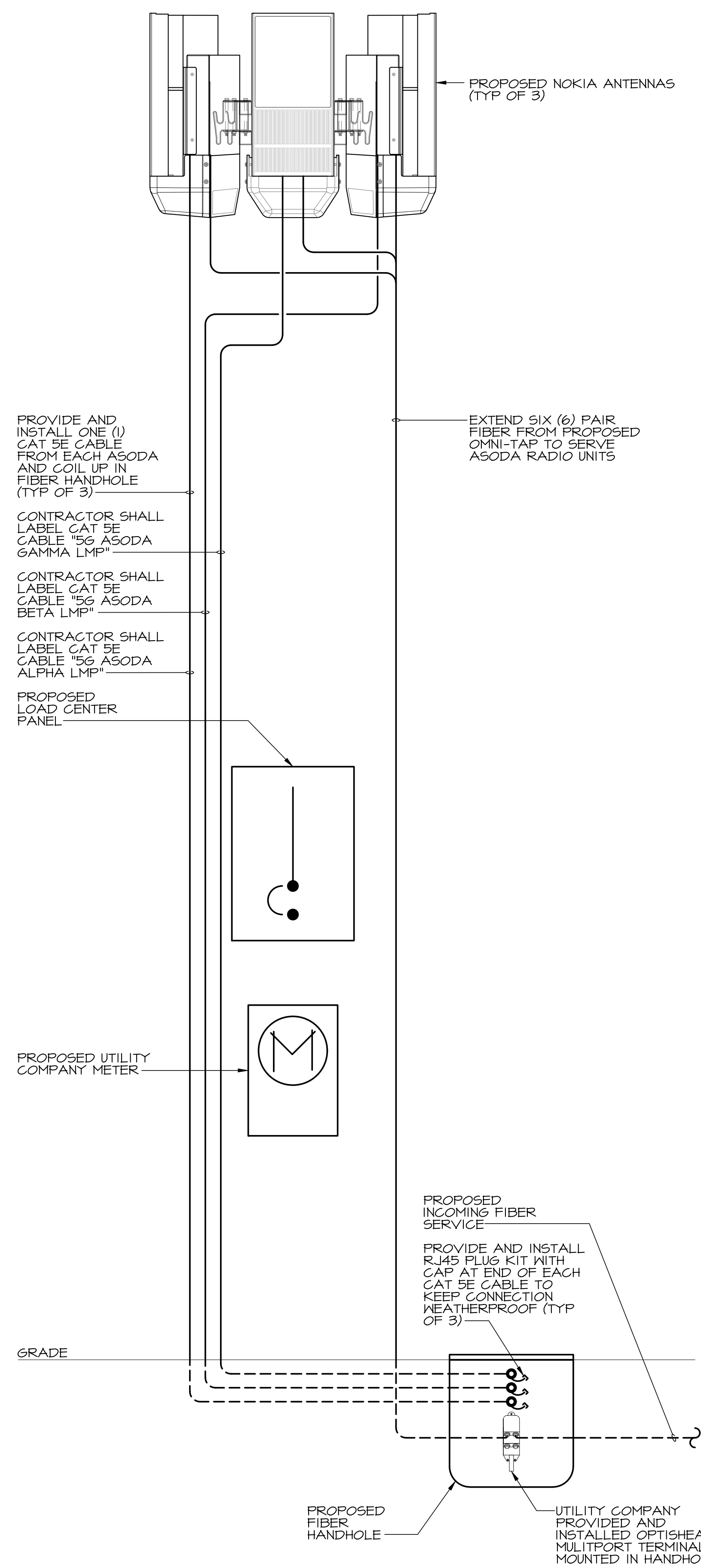
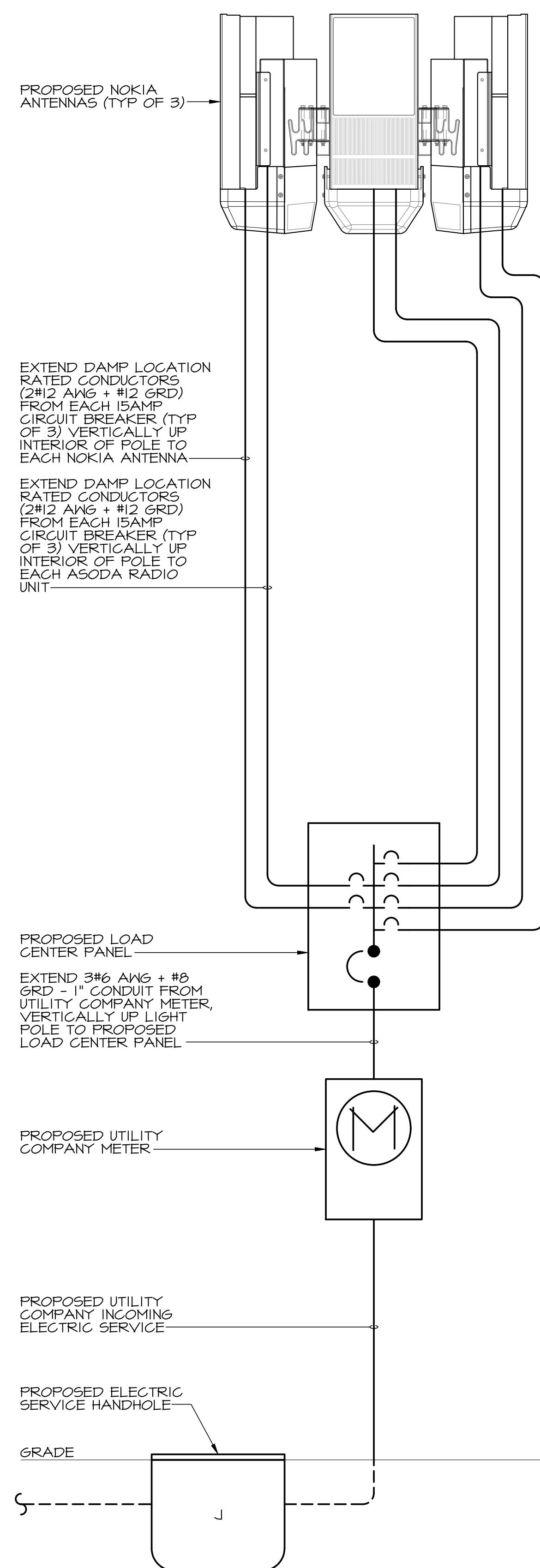


verizon
OLD TOWN 8 - SMALL CELL
IRON ADJACENT TO 300 SOUTH WASHINGTON STREET, ALEXANDRIA,
CITY OF ALEXANDRIA, VIRGINIA 22314

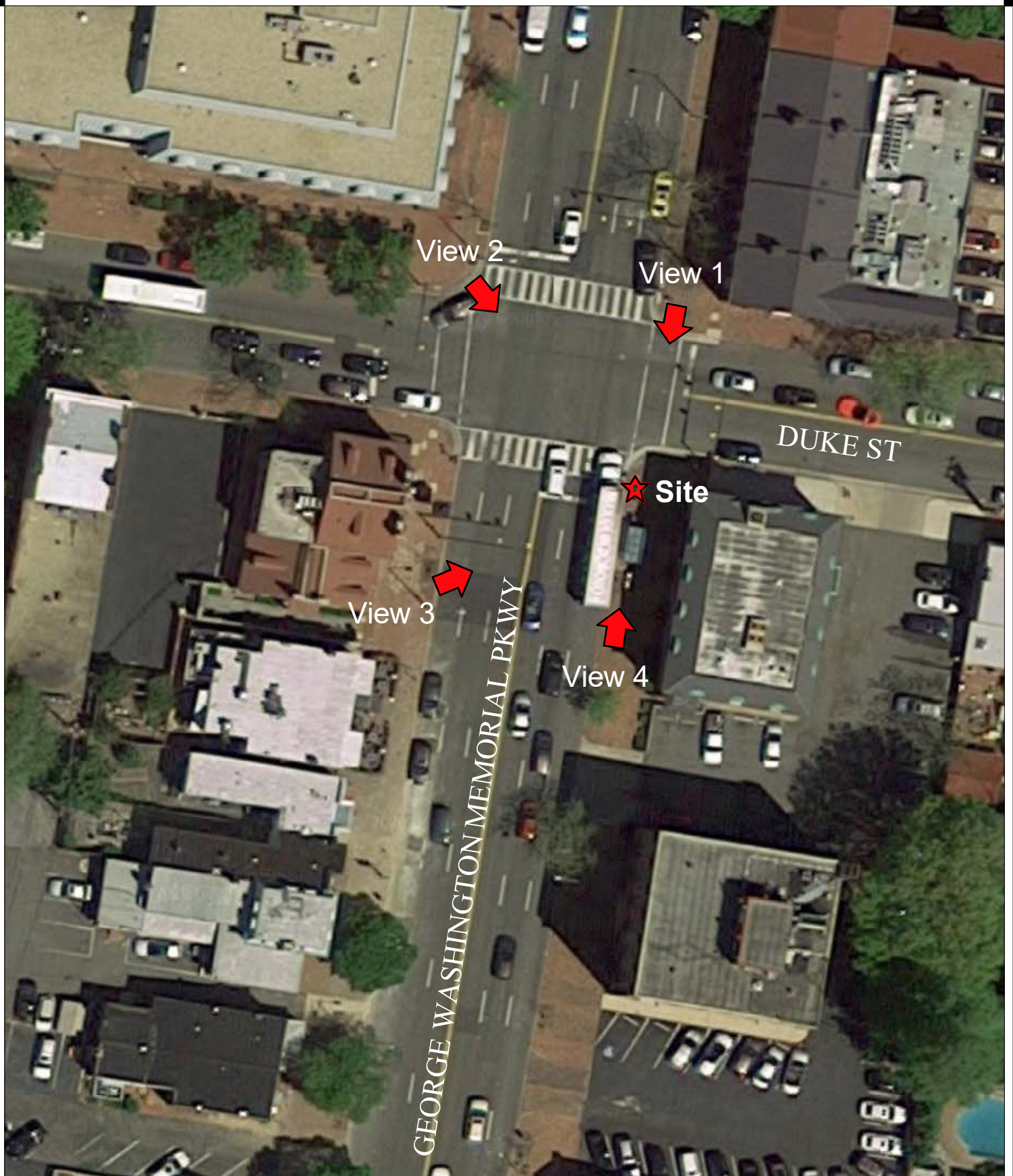
VISIONS:	
DESCRIPTION	DATE
PERMIT DWGS.	4/21/20
NEXT REV.: _____	
PROJECT NO: 19126W	
DATE: APRIL 21, 2020	
SCALE: AS NOTED	
FILE: POWER PLAN, POWER RISER, DETAILS, AND NOTES	

MEET:

III-3



NOTE: CONTRACTOR SHALL REFER TO LATEST EDITION OF VZW FIBER DESIGN STANDARDS FOR FIBER QUANTITIES, ETC.

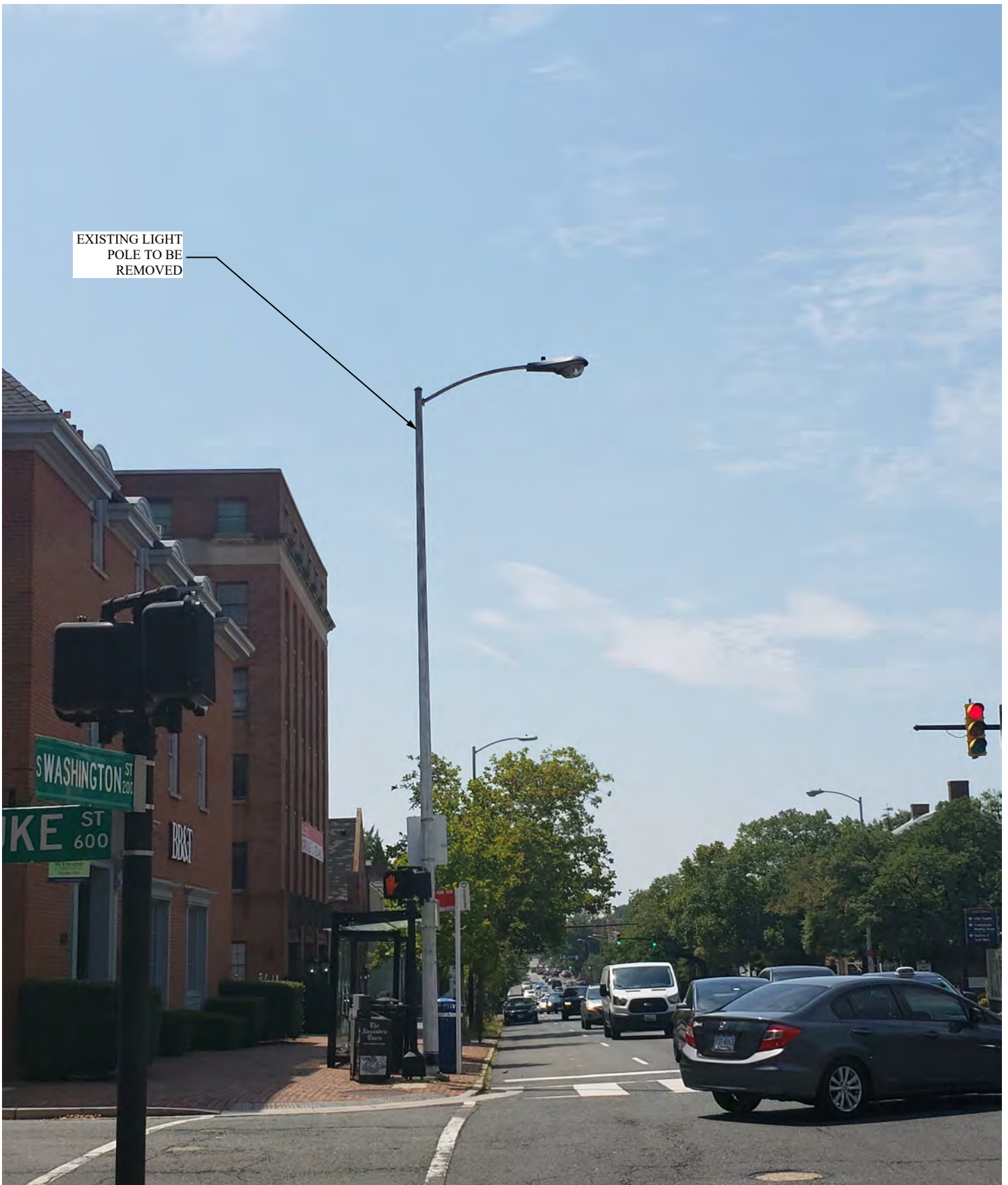


MORRIS & RITCHIE
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410-821-1690
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Old Town 8 Overall Site Layout

15 April 2020





**MORRIS & RITCHIE
ASSOCIATES, INC.**
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410-821-1690
410-821-1748

Old Town 8 Existing View 1

15 April 2020





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 410-821-1748

Old Town 8 Proposed View 1

15 April 2020





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

Old Town 8 Existing View 2

15 April 2020





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Old Town 8 Proposed View 2

15 April 2020





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Old Town 8 Existing View 3

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