

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

APPLICANT: Celco Partnership dba Verizon Wireless

LOCATION: Old and Historic Alexandria District
Dominion Energy utility pole in right-of-way near 526 North Washington Street

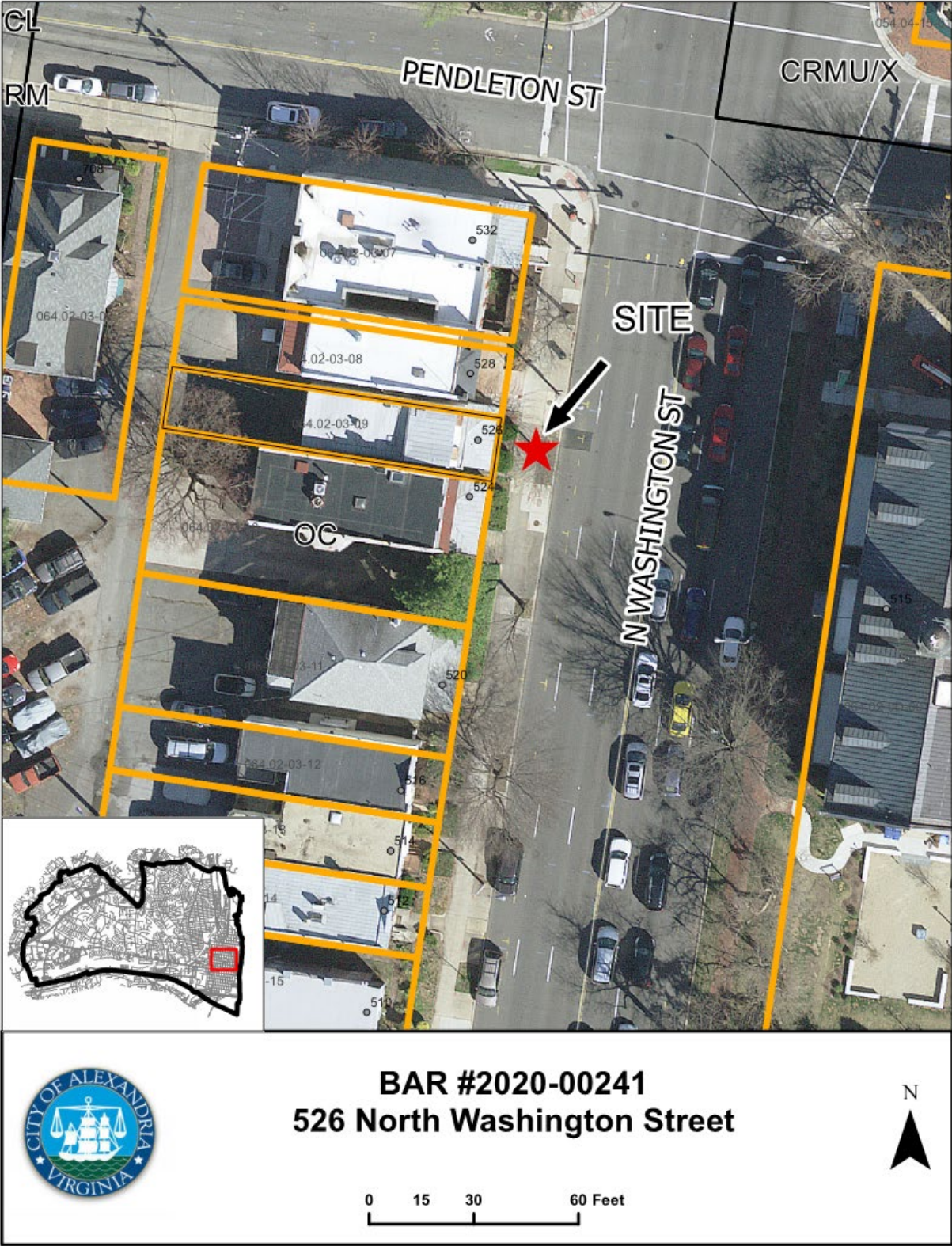
ZONE: OC/Office Commercial Zone

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 526 North Washington Street with a new metal pole.

- The existing 35'2" high pole will be replaced with a new 38' high pole installed 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 volume of associated equipment is 1.78.
- 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 in front of a two-story frame commercial building constructed as a residence. There are a number of historic townhouse in the 500 block of North Washington Street and the pole is across the street from the historic Cotton Factory.

II. HISTORY

The two-story, three bay frame townhouse with a front porch and mansard roof was constructed between 1902 and 1907, according to Sanborn Fire Insurance Maps. Staff could locate no previous BAR approvals for the subject property.

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. 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..." 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'-8" 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 height is 33' feet and overall height is 41' 8"

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.
Pole will not require a tree to be removed; however, it sits between two trees.
- 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 a silver metal pole

Code Administration

- F-1 No Code comment.

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 The City is in the process of establishing a written policy regarding pole height for small cells. The poles will not be permitted to increase in height by more than 10-ft from the existing pole height, and not to exceed 50-ft in height. More details will be available in June 2019. (T&ES)
- F-2 A released grading plan is required prior to submitting for building permits. (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 Roof, surface and sub-surface drains be connected to the public storm sewer system, if available, by continuous underground pipe. Where storm sewer is not available applicant must provide a design to mitigate impact of stormwater drainage onto adjacent properties and to the satisfaction of the Director of Transportation & Environmental Services. (Sec.5-6-224) (T&ES)
- C-4 All secondary utilities serving this site shall be placed underground. (Sec. 5-3-3) (T&ES)
- C-5 Any work within the right-of-way requires a separate permit from T&ES. (Sec. 5-2) (T&ES)
- C-6 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)
- C-7 An encroachment request will be required for projections into the public right of way. (T&ES)
- C-8 The owner shall obtain and maintain a policy of general liability insurance in the amount of \$1,000,000 which will indemnify the owner (and all successors in interest); and the City as an Additional Insured, against claims, demands, suits and related costs, including attorneys' fees, arising from any bodily injury or property damage which may occur as a result of the encroachment. (Sec. 5-29 (h)(1)) (T&ES)

Please submit Insurance Certificate:

City of Alexandria

T&ES

Attn: Development Services

301 King Street, Room 4130

Alexandria, VA 22314

Alexandria Archaeology

No archaeological oversight required.

National Park Service

No comments received.

V. ATTACHMENTS

1 – Supplemental Materials

2 – Application for BAR2020-00241: near 526 North 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 LAWS OF ORDER 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 SPECIFICATIONS 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 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 WITH 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 UPDATED WITH THE LATEST REVISIONS AND ENDORSEMENTS AND CERTIFICATIONS 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 INFRASTRUCTURES, 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.
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 PROJECT. PROPERTY OF THE CONTRACTOR BE INCLUDED IN RFQ PACKAGE, PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM 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 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 FURNISHING REQUIREMENTS STIPULATED BY THE VZW CONSTRUCTION ENGINEER.
18. CONTRACTOR IS RESPONSIBLE FOR STORAGE OF ALL MATERIAL PROVIDED BY VERIZON AND IS RESPONSIBLE 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 10LB. DRY-CHEMICAL FIRE EXTINGUISHER ON SITE DURING CONSTRUCTION. UPON COMPLETION OF ALL WORK, 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 WORK 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 WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND SPECIFICATIONS MAY OCCUR BECAUSE 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 ANY OMISSIONS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PROCEED TO COMPLETELY 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 WORK DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE CONSTRUCTION DOCUMENT SET BEING ISSUED 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 PORTION OF THE PROJECT, AS SHOWN ON 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 CONSTRUCTION DOCUMENT SET BEING UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE PROJECT BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE IN CONFLICT WITH 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, FROM THE CITY, 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. ALL EXCESS MATERIALS, TRASH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. DETAILS OF EQUIPMENT TO BE INCLUDED IN INUSE CASE. EXCESS SHALL BE LEFT IN GOOD CONDITION AND FREE FROM 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 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. 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. IF MATERIAL 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 LOSS OF 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

CS-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

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

APPLICABLE BUILDING CODE:

IBC 2015

USE GROUP:

UTILITY (U)

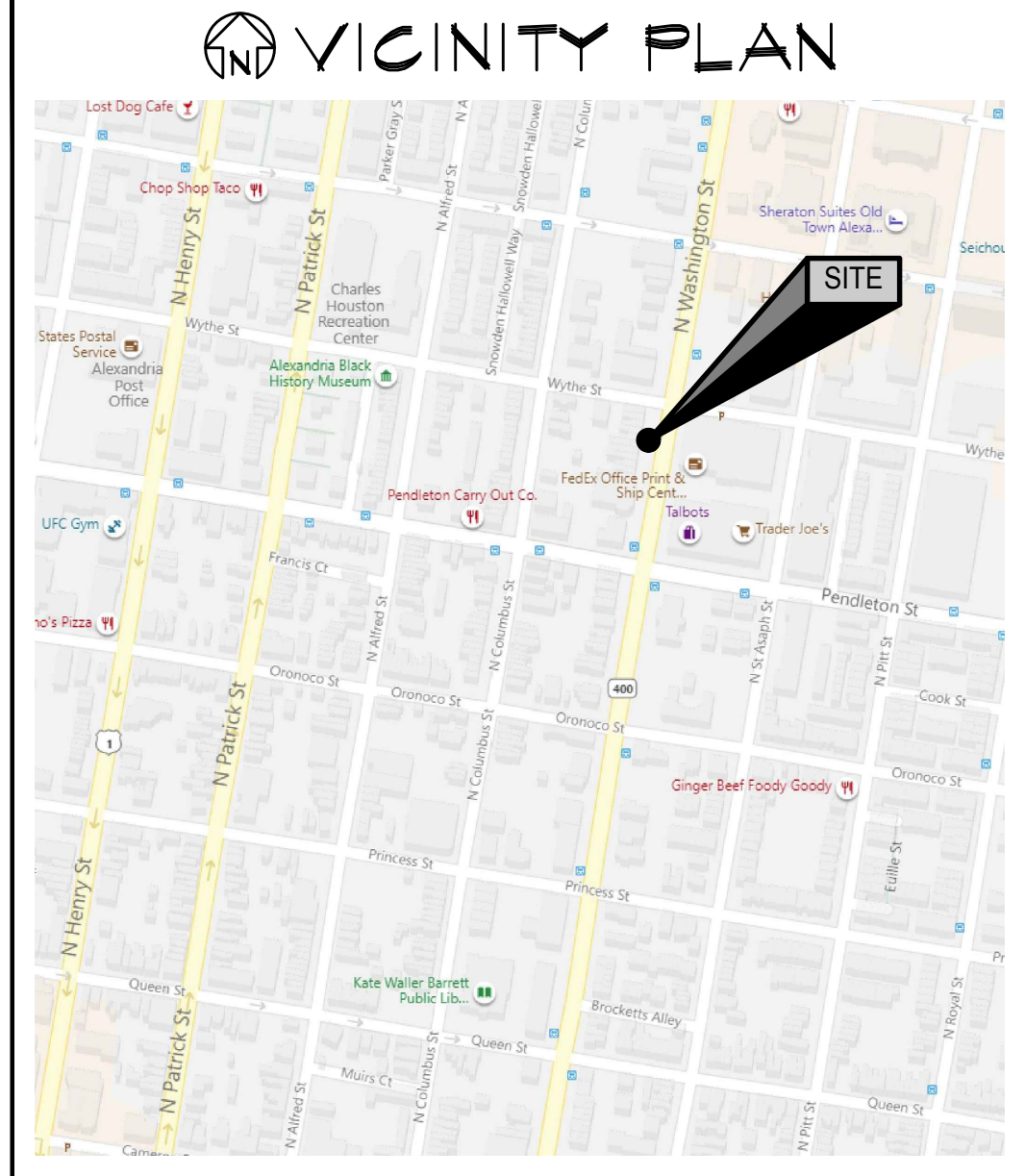
CONSTRUCTION TYPE:

IIB

UTILITY COMPANY:

DOMINION

RAND McNALLY LICENSE # R.L.04-S-97



<h1 style="margin: 0;">PROJECT DESCRIPTION</h1>	
<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>	
<h1 style="margin: 0;">DIRECTIONS TO SITE</h1>	
<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 410C RAMP ON RIGHT FOR BALTIMORE WASHINGTON PARKWAY SOUTH - TAKE RAMP ON RIGHT FOR GEORGE WASHINGTON MEMORIAL PARKWAY SOUTH - KEEP STRAIGHT ONTO VA-400/ NORTH WASHINGTON STREET - DESTINATION WILL BE ON THE RIGHT 	
<h1 style="margin: 0;">VERIZON WIRELESS REVIEW</h1>	
BUILDING OWNER _____	DATE _____
ENGINEERING _____	DATE _____
OPERATIONS _____	DATE _____
CONSTRUCTION _____	DATE _____

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".

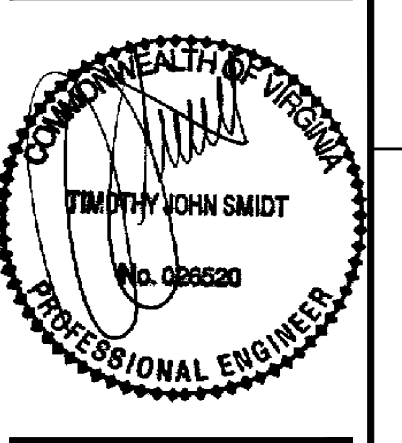
DIRECTIONS TO SITE


- 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 RAMP ON RIGHT FOR GEORGE WASHINGTON MEMORIAL PARKWAY SOUTH
- KEEP STRAIGHT ONTO VA-400/ NORTH WASHINGTON STREET
- DESTINATION WILL BE ON THE RIGHT

- FROM JUNCTION DRIVE;
- 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 RAMP ON RIGHT FOR GEORGE WASHINGTON MEMORIAL PARKWAY SOUTH
- KEEP STRAIGHT ONTO VA-400/ NORTH WASHINGTON STREET
- DESTINATION WILL BE ON THE RIGHT

VERIZON WIRELESS REVIEW	
BUILDING OWNER _____	DATE _____
ENGINEERING _____	DATE _____
OPERATIONS _____	DATE _____
CONSTRUCTION _____	DATE _____

BUILDING OWNER	DATE
ENGINEERING	DATE
OPERATIONS	DATE
CONSTRUCTION	DATE



verizon  OLD TOWN II - SMALL CELL
RIGHT OF WAY ADJACENT TO 526 N WASHINGTON ST, ALEXANDRIA,
CITY OF ALEXANDRIA, VIRGINIA 22314

REVISIONS:		
NO.	DESCRIPTION	DATE
	ADDRESS REV5.	5/8/20
	PERMIT DWGS.	3/26/20

LAST REV.: _____

PROJECT NO:19126V

DATE: MARCH 26, 2020

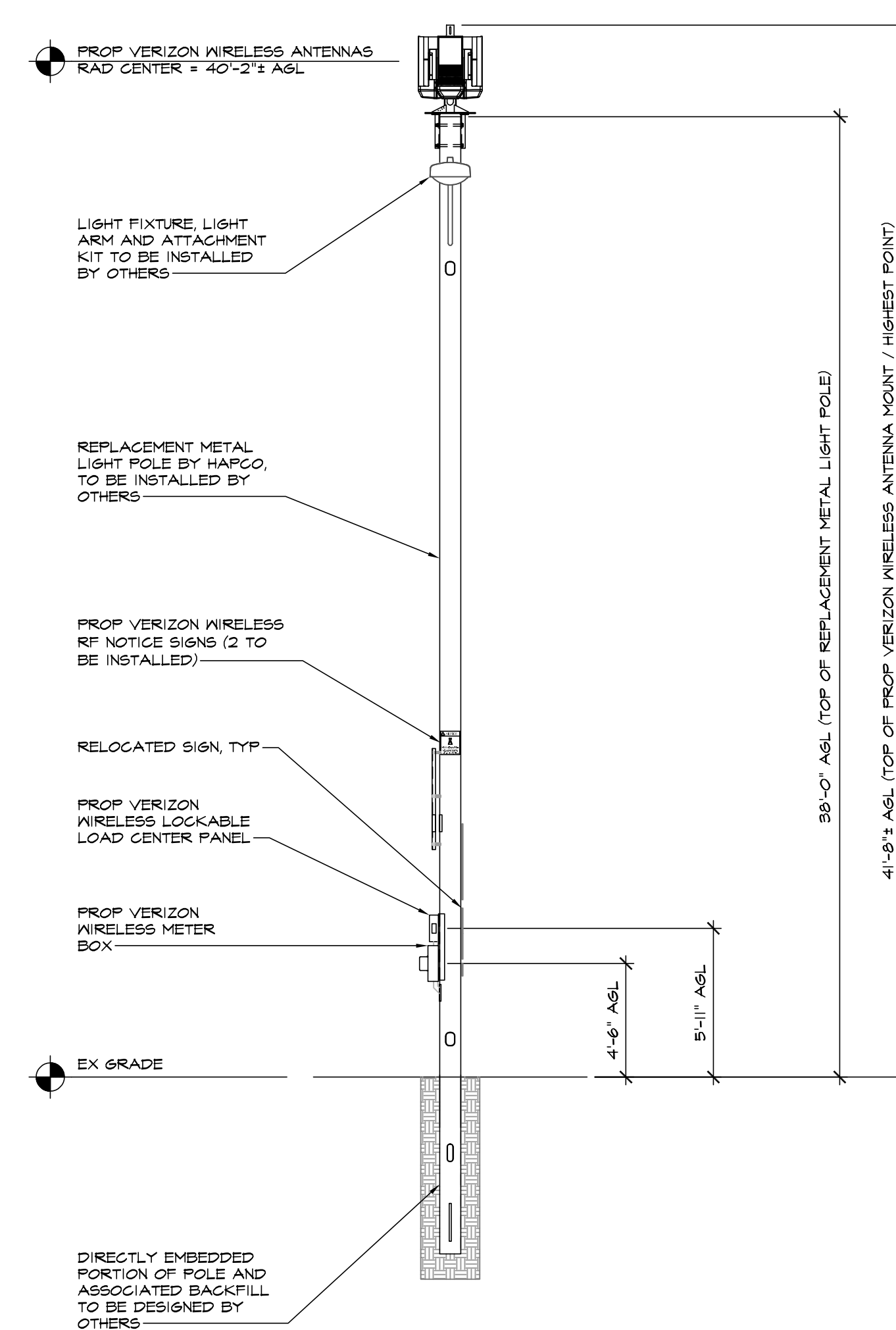
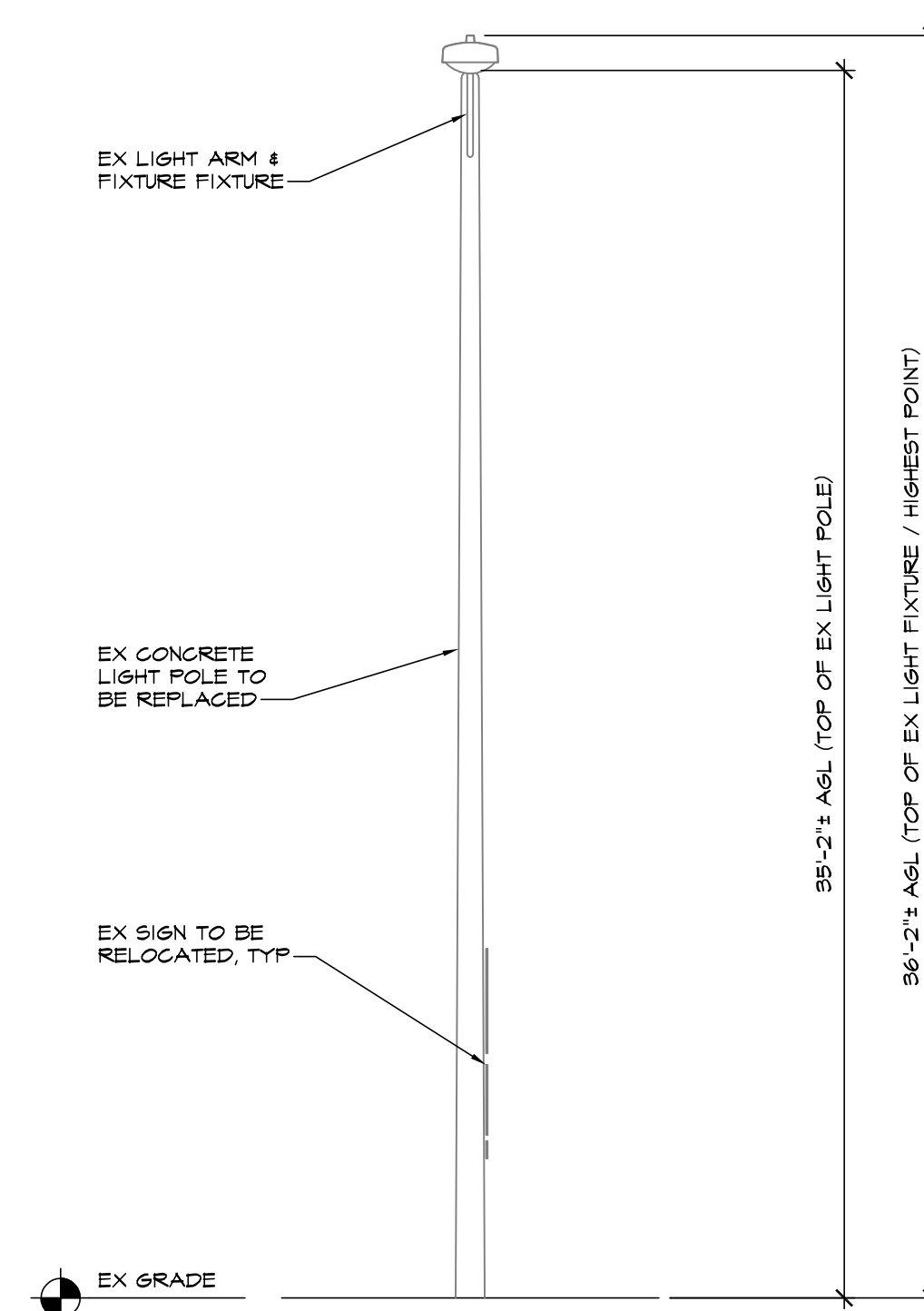
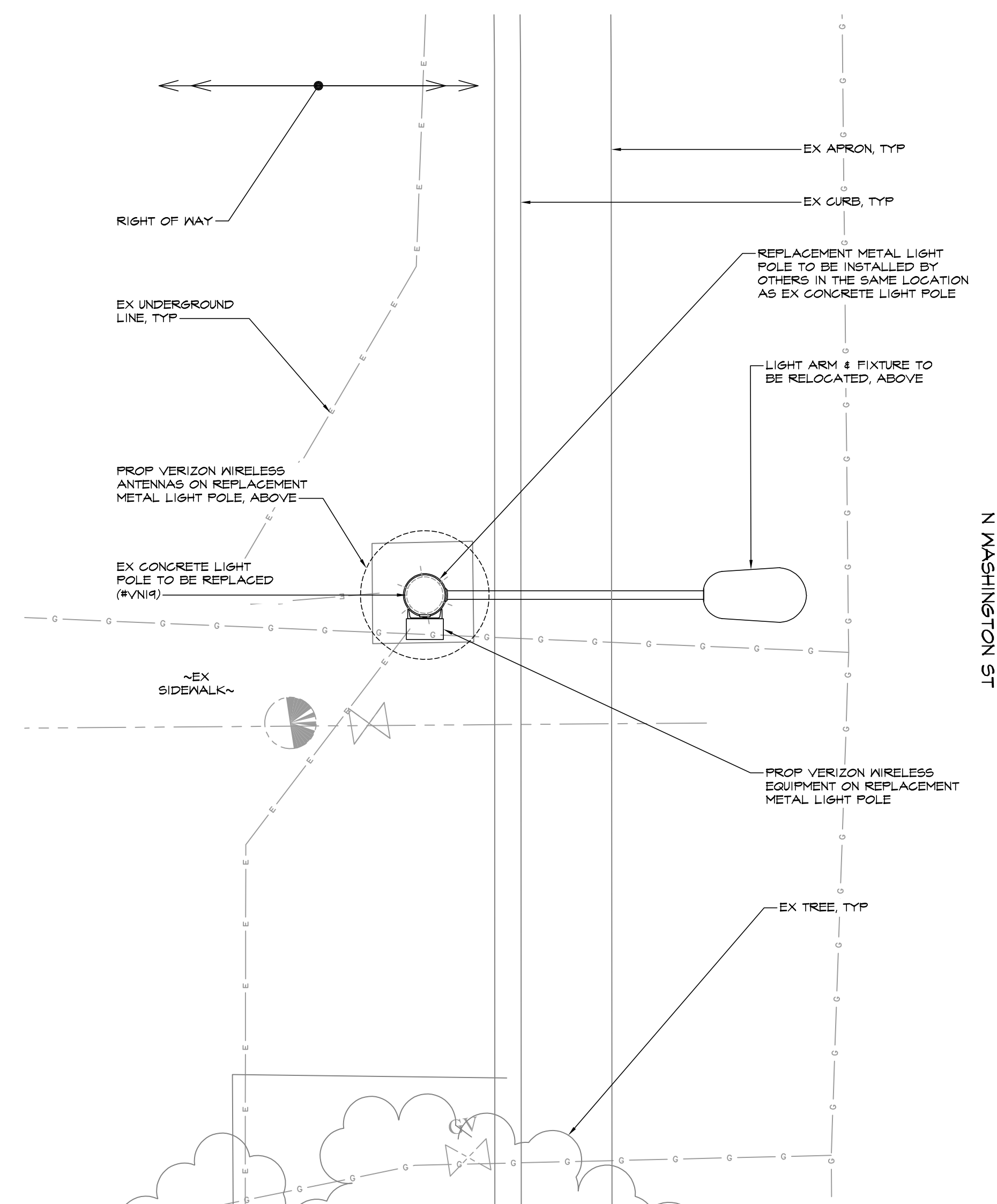
SCALE: AS NOTED

TITLE:	
--------	--

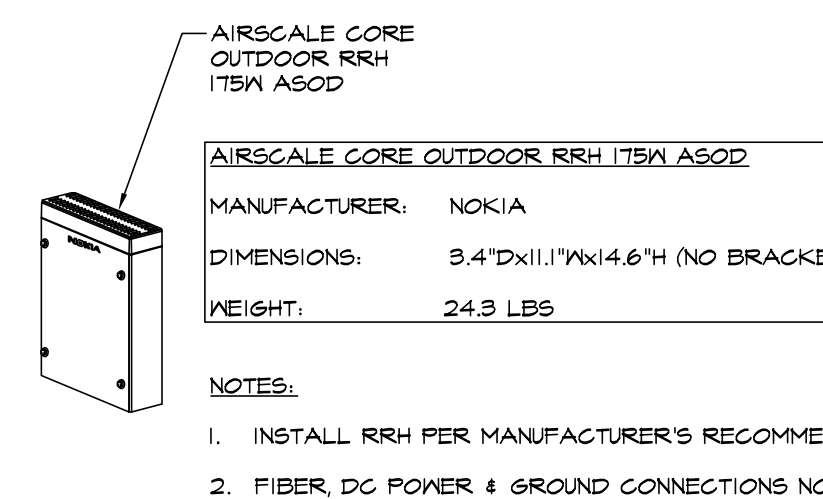
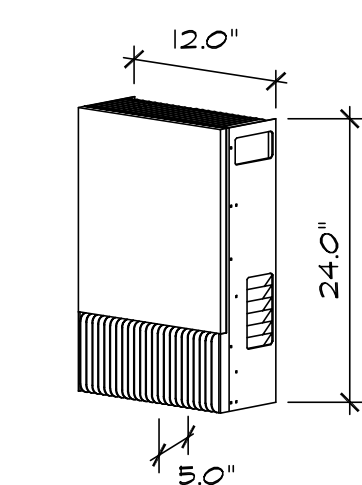
SITE LOCATION AND VICINITY PLAN, INDEX OF DRAWINGS, AND CODE ANALYSIS

SHEET:

CS-1



VOLUMETRIC CALCULATIONS			
ANTENNA VOLUMETRIC CALCULATION		EQUIPMENT VOLUMETRIC CALCULATION	
NOKIA A&U/B (3 ANTENNAS, 0.88 CU FT EACH)	250 CU FT	SQUARE D BOX NO. 2R LOAD CENTER R/P	0.28 CU
TOTAL	250 CU FT	200 AMP RINGLESS HORN OVERHEAD METER SOCKET NOKIA ASDA R/RH (3 UNITS, 0.32 CU FT EACH)	0.96 CU
		TOTAL	1.18 CU



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



**MORRIS & RITCHIE
ASSOCIATES, INC.**
Civil / Structural Engineers
1220-C East Joppa Road, Suite 504
Towson, Maryland 21286
410-821-1690
410-821-1748 Fax



verizon
OLD TOWN II - SMALL CELL
BRIGHT OF WAY ADJACENT TO 526 N WASHINGTON ST
ALEXANDRIA, VIRGINIA 22314 (CITY OF ALEXANDRIA)

REVISIONS:		
NO.	DESCRIPTION	DATE
	PERMIT DWGS	03/26/20
	ADDRESS REVS	05/08/20

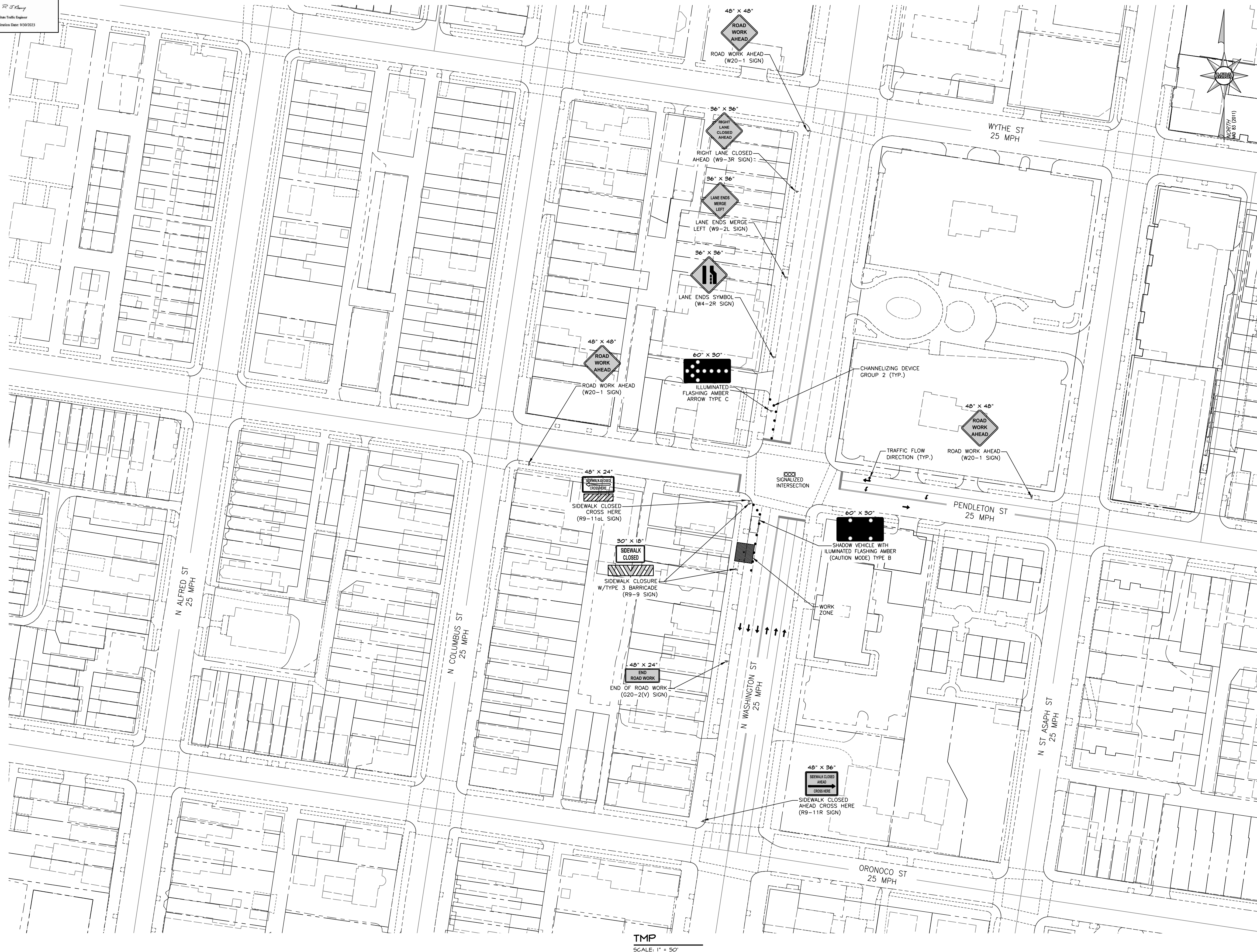
DESIGNED BY:	RJD
DRAWN BY:	DNT
PROJECT NO:	10421.2705
DATE:	03/14/2020
SCALE:	AS NOTED
TITLE:	

Site Details

SHEET:

C-2

TRANSPORTATION MANAGEMENT PLAN



MRA

**MORRIS & RITCHIE
ASSOCIATES, INC.**

Professional Engineers

400-C East Joppa Road, Suite 505
Annapolis, Maryland 21406

821-1600
821-1746 Fax



JOHN K. ERICKSON
Lic. No. 32355
5/8/2020
PROFESSIONAL ENGINEER

verizon
OLD TOWN N II - SMALL CELL
RIGHT OF WAY ADJACENT TO 526 N WASHINGTON ST
ALEXANDRIA, VIRGINIA 22314 (CITY OF ALEXANDRIA)

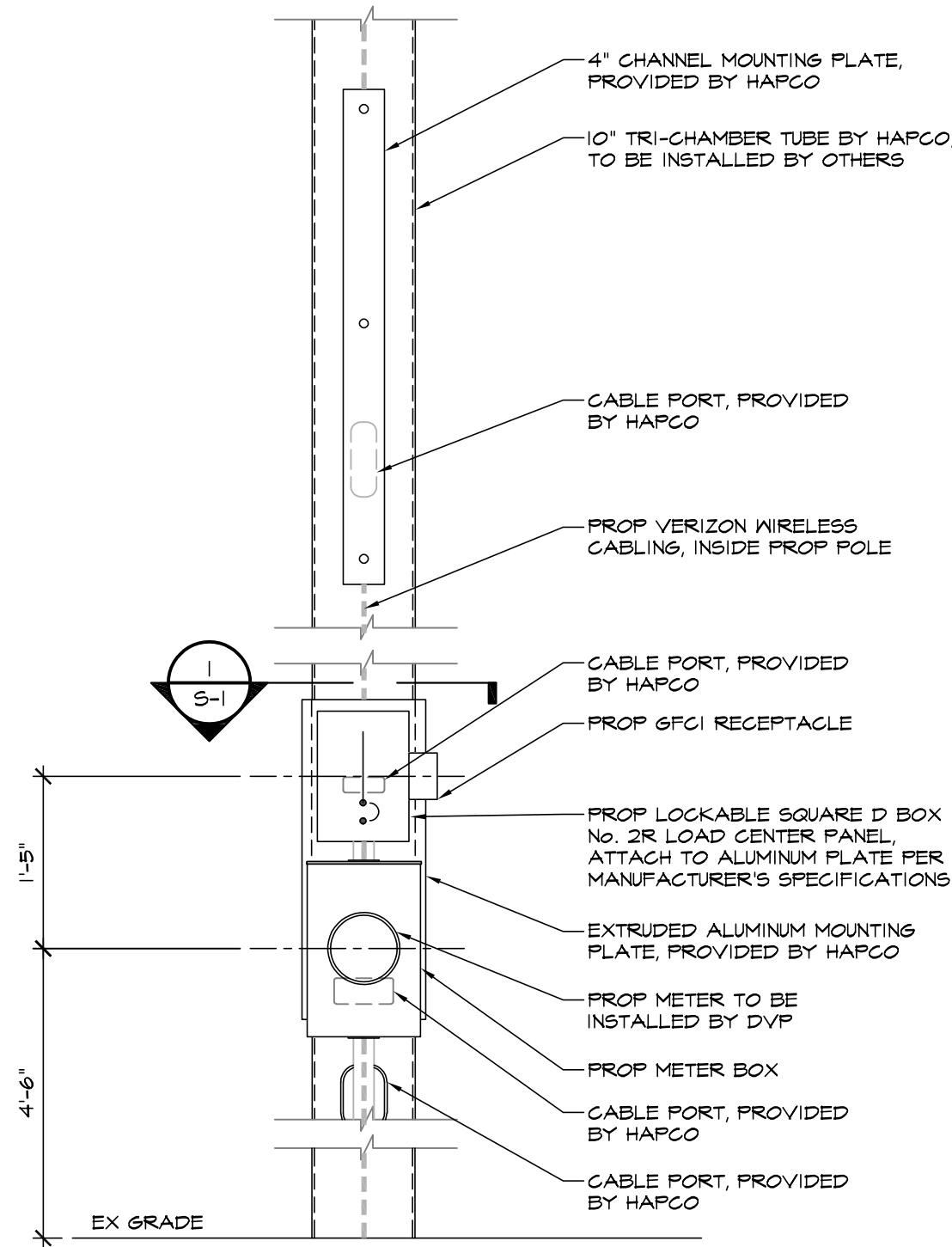
REVISIONS:	
DESCRIPTION	DATE
PERMIT DWGS	03/26/20
ADDRESS REVS	05/08/20

SIGNED BY:	JKE
AWN BY:	ML
PROJECT NO:	10421.2705
DATE:	03/14/2020
SCALE:	AS NOTED
RE:	

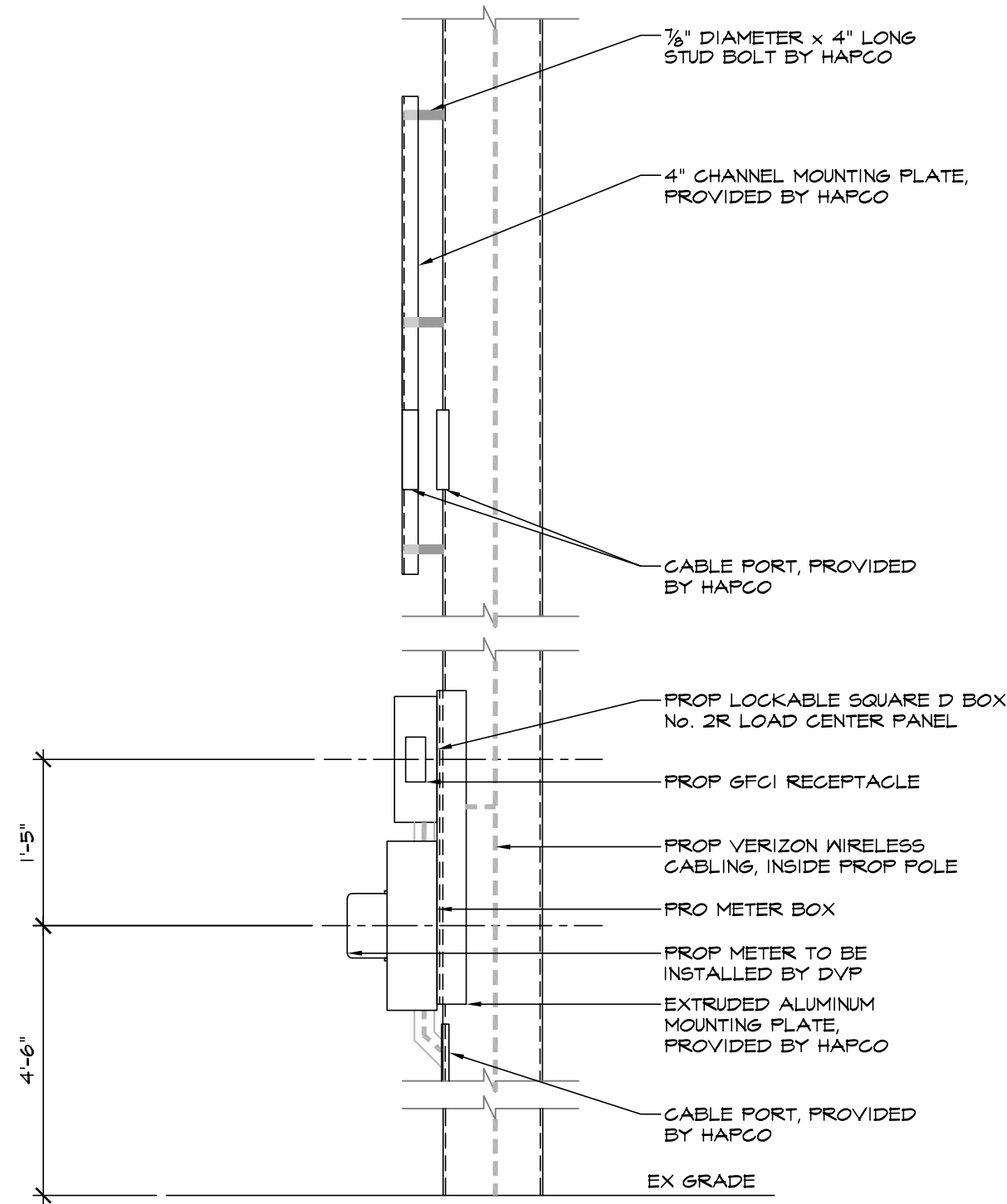
TRANSPORTATION MANAGEMENT PLAN

EET:

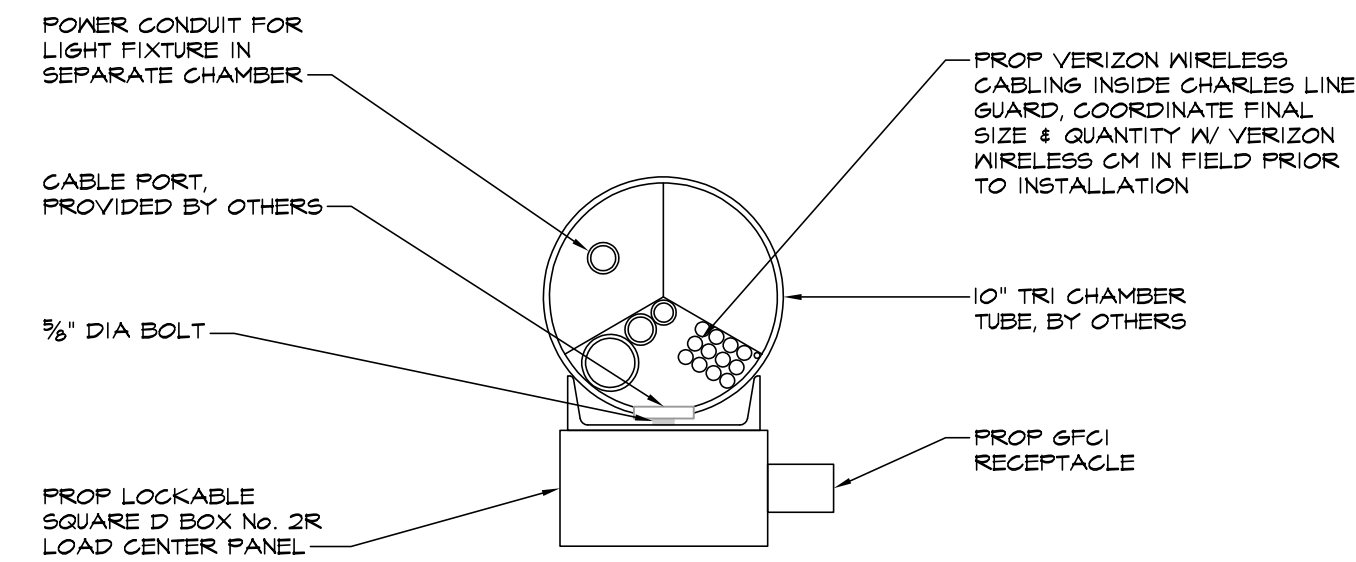
TMP-2



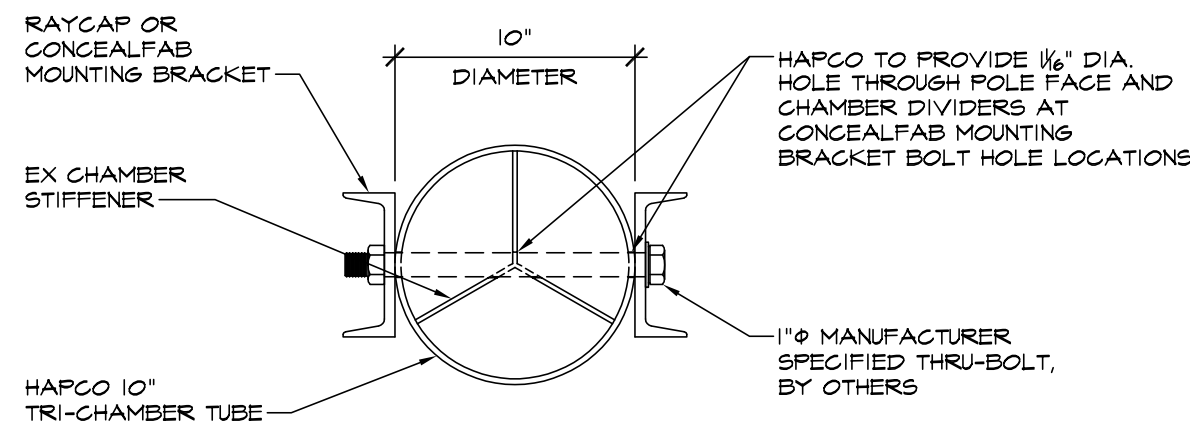
A POLE EQUIPMENT FRONT ELEVATION
SCALE: 3/4" = 1'-0"



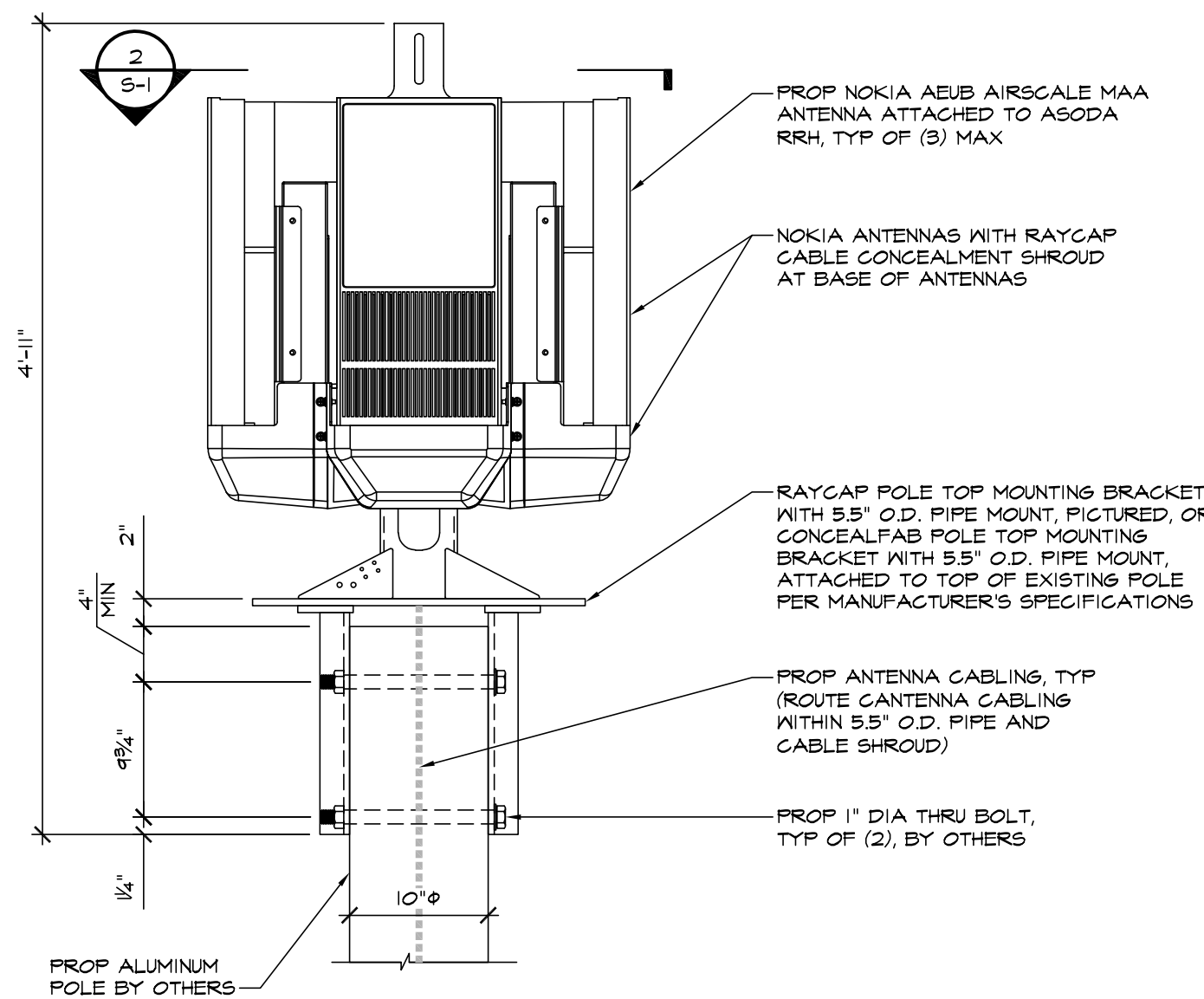
B POLE EQUIPMENT SIDE ELEVATION
SCALE: 3/4" = 1'-0"



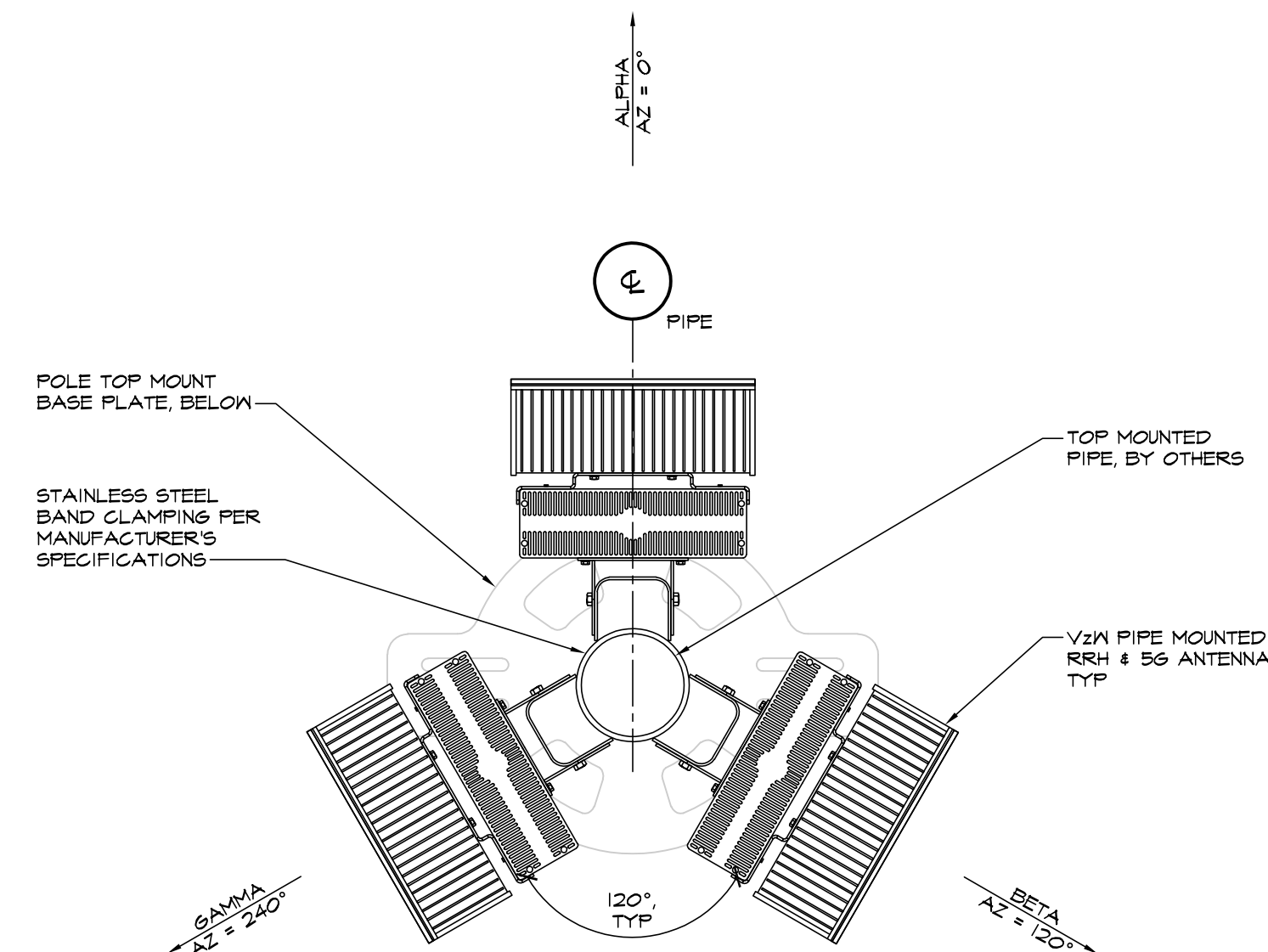
I EQUIPMENT MOUNT
SCALE: 1/2" = 1'-0"



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"

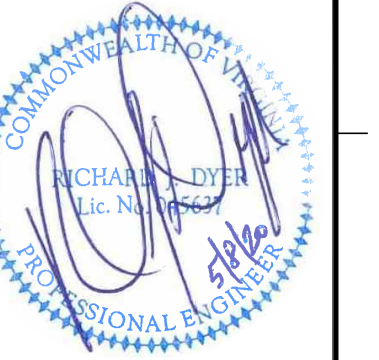


**Know what's below.
Call before you dig.**

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.



**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 N II - SMALL CELL
RIGHT OF WAY ADJACENT TO 526 N WASHINGTON ST
ALEXANDRIA, VIRGINIA 22314 (CITY OF ALEXANDRIA)

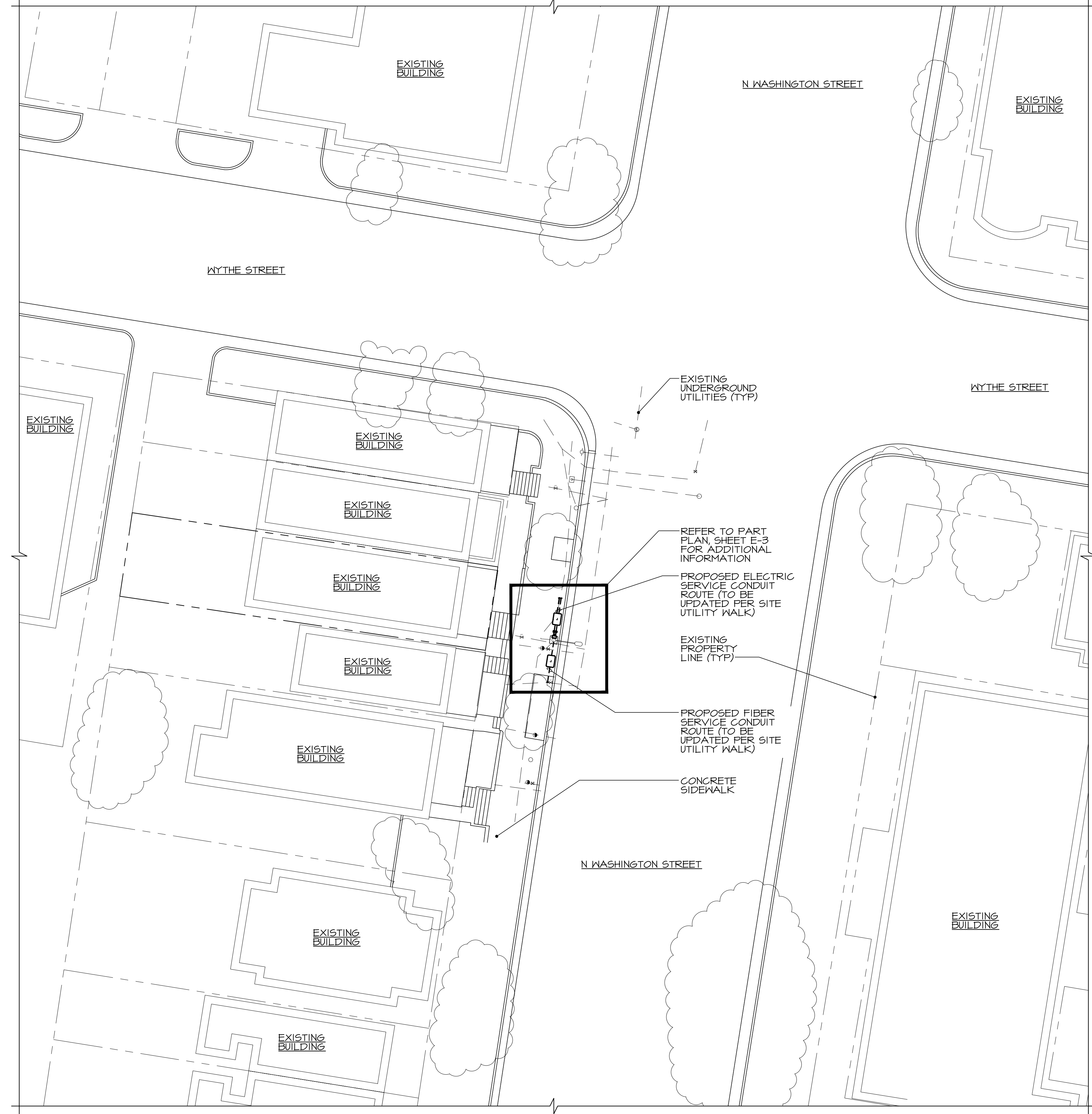
REVISIONS:		
NO.	DESCRIPTION	DATE
1	PERMIT DWGS	03/26/20
2	ADDRESS REVS	05/08/20
3		
4		
5		
6		
7		
8		
9		

DESIGNED BY: RJD
DRAWN BY: DNT
PROJECT NO: 10427.2705
DATE: 03/14/2020
SCALE: AS NOTED
TITLE:

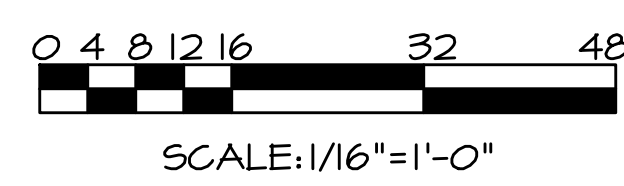
**Structural
Sections &
Details**

SHEET:

S-1



ROUTING SITE PLAN
SCALE: 1/16" = 1'-0"



REVISIONS:		
NO.	DESCRIPTION	DATE
	ADDRESS REV.	5/8/20
	PERMIT DWGS.	3/26/20

LAST REV.:
PROJECT NO:19126V
DATE:MARCH 26, 2020
SCALE: AS NOTED
TITLE: ROUTING SITE PLAN

SHEET:

E-1

ELECTRICAL SPECIFICATIONS

I. SECTION I6010 - 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, FEDERAL 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 UL 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. 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.
- J. GUARANTEE: ALL NEW ELECTRICAL INSTALLATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) 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.
- K. 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 DOMINION REPRESENTATIVE (IF APPLICABLE).
- L. 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 MANUFACTURED ITEMS OR FABRICATED STRUCTURAL STEEL SHAPES.
- M. THERE SHALL BE NO INTERRUPTION OF POWER TO EXISTING ELECTRICAL SYSTEMS WITHOUT PRIOR CONSENT FROM VERIZON. SUCH INTERRUPTIONS SHALL BE KEPT TO A MINIMUM. ANY COST FOR WORK THAT MUST BE DONE ON AN OVERTIME BASIS SHALL BE INCLUDED IN THE BID.
- N. MOUNTING AND SUPPORTING OF ALL EQUIPMENT PROVIDED BY THIS CONTRACTOR SHALL BE COORDINATED WITH VERIZON IN THE FIELD.
- O. 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.

2. SECTION I6050 - BASIC ELECTRICAL MATERIALS & METHODS

A. CONDUIT & BOXES:

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

3. SECTION I6400 - SERVICE & DISTRIBUTION

A. ELECTRICAL SERVICE:

1. ELECTRICAL POWER TO THE NEW EQUIPMENT SHALL BE EXTENDED FROM THE PROPOSED UTILITY METER AND SERVICE ENTRANCE RATED PANELBOARD 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 SHEEP FIELD BENDS. INSTALL PULL BOXES AS REQUIRED AND WHERE DIRECTED BY THE TELEPHONE COMPANY AND/OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

DOMINION SPECIFICATIONS

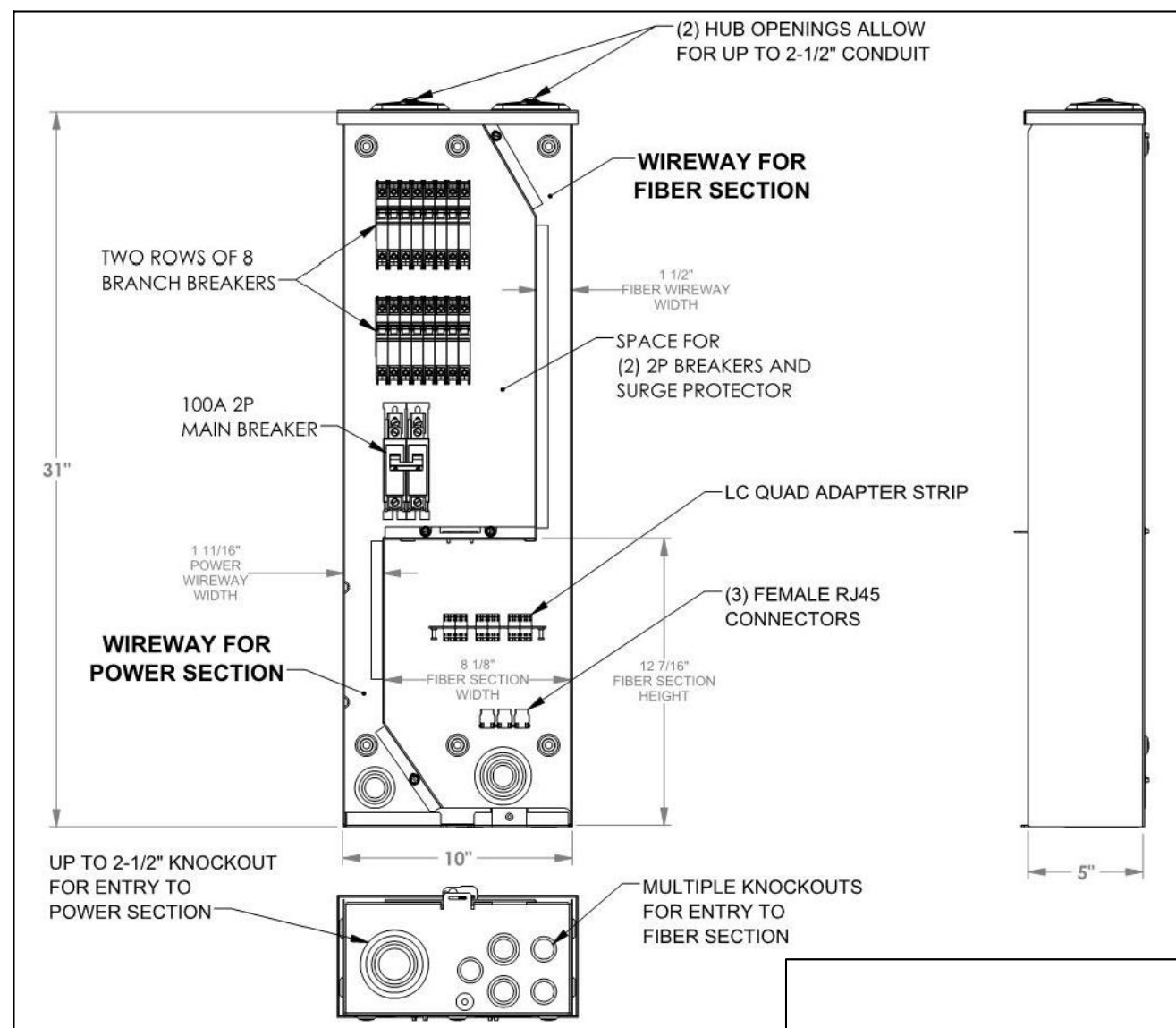
1. A 9"x12" RF NOTICE SIGN MUST BE INSTALLED ON BOTH SIDES OF THE POLE A MINIMUM OF ONE FOOT ABOVE THE UPPERMOST ELECTRIC SUPPLY FACILITIES. THIS SIGN MARKS THE POINT WHERE RF EXPOSURE LEVELS MAY EXCEED "FCC OET-65 APPENDIX A" LIMITS FOR UNCONTROLLED GENERAL POPULATION EXPOSURE. WORKING ABOVE THIS POINT 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 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 NESC MINIMUM CLEARANCE OR THE MINIMUM CLEARANCE REQUIRED TO MEET OET UNCONTROLLED EXPOSURE GUIDELINES AT A POINT 1' 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.
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 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 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 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 PAID FOR BY THE CONTRACTOR. EQUIPMENT MUST BE LOCATED A MINIMUM OF 10' FROM THE BASE OF THE POLE.

EQUIPMENT SCHEDULE					
MANUFACTURER	PART #	COMPONENT TYPE	QUANTITY	DIMENSIONS (HxWxD)	WEIGHT
NOKIA	AIRSCALE AEUB & ASODA RRH	ANTENNA/ REMOTE RADIO HEAD	3	24.0"x12.0"x5.0"	68.3 LBS.
INFINITE ELECTRONICS	PENDING	PANELBOARD	1	31.0"x10.0"x5.0"	50.0 LBS.
DOMINION STANDARD	65.137000	ELECTRIC METER	1	17.0"x11.0"x5.0"	5.25 LBS.
		CONDUIT CABLING	3±	VARIES	20.0 LBS.
				TOTAL WEIGHT:	280.15 LBS.
				TOTAL VOLUME:	3.93 CU.FT.

ELECTRICAL SYMBOLS LIST

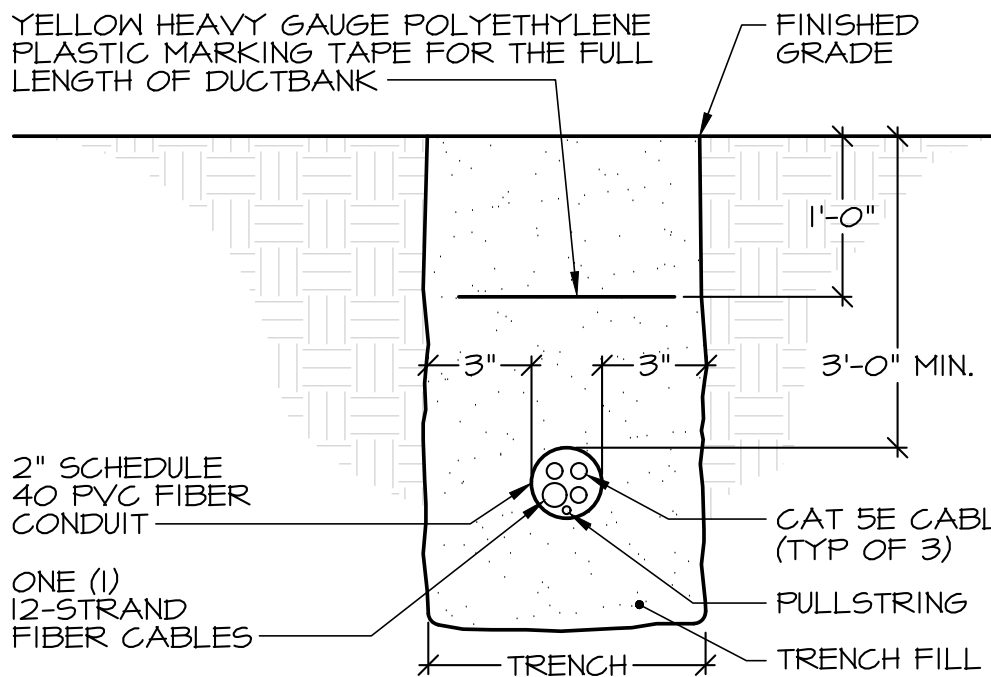
NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX UNLESS OTHERWISE INDICATED.

XXXX	120/240V, 1Ø, SQUARE D LOAD CENTER
⑤	DRAWING NOTE
— — E — —	ELECTRIC FEEDERS
— — T — —	TELEPHONE SERVICE
— — — —	BRANCH CIRCUIT
	METER
	GROUND CONDUCTOR
	BURIED GROUND ROD
▼	DESIGNATES FRONT



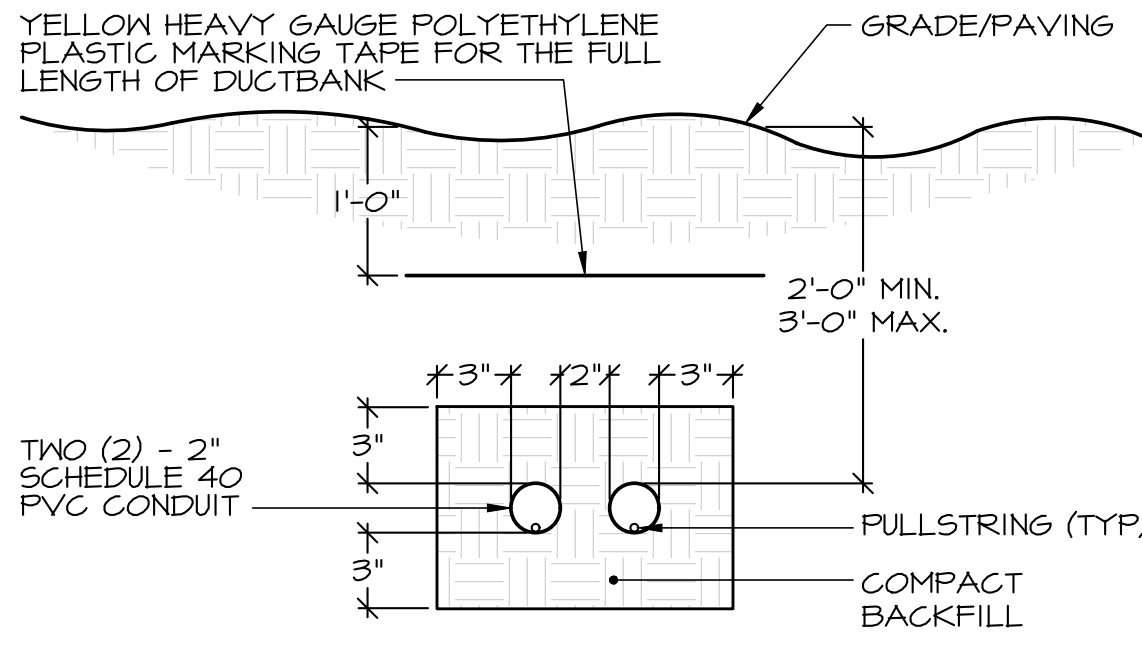
DETAIL - PANELBOARD

NOT TO SCALE



DETAIL - FIBER SERVICE CONDUIT SECTION

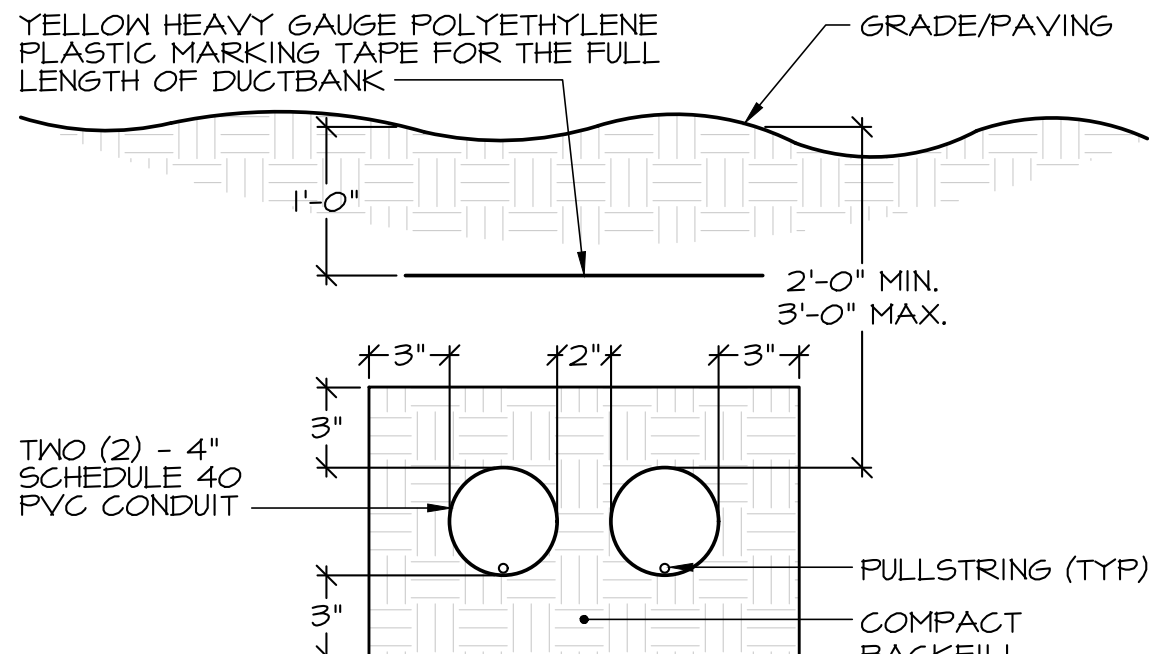
NO SCALE



DETAIL - ELECTRIC SERVICE CONDUIT SECTION

NO SCALE

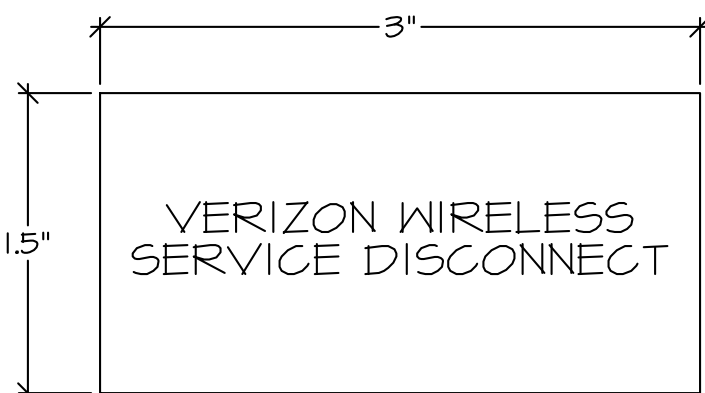
(HANDHOLE TO POLE)



DETAIL - ELECTRIC SERVICE CONDUIT SECTION

NO SCALE

(UTILITY POLE/MANHOLE TO HANDHOLE)



* PHENOLIC NAMEPLATE SHALL HAVE A BLACK BACKGROUND WITH WHITE LETTERING AND BE PERMANENTLY INSTALLED ON FRONT OF LOAD CENTER PANEL.

DETAIL - LOAD CENTER PLACARD

NO SCALE

(PROPOSED)				(NEMA 3R)							
PANEL "VERIZON WIRELESS"											
120/240 VOLTS 1Ø 3 WIRE 100 AMP MAIN C.B.											
DESCRIPTION	1	2	3	4	5	6	7	8			
SPACE	15	15	15	15	15	-	-	-	-	-	-
SPACE	10	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-	-	-	-	-	-
SPACE	11	15	15	15	15	-					

* PANEL SHALL BE LOCKABLE WITH PADLOCK.

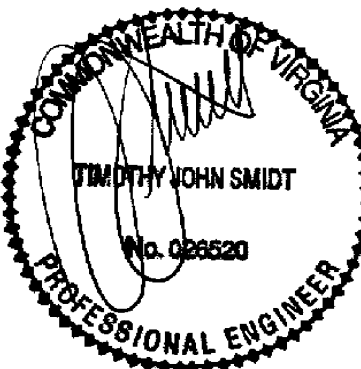
** PANEL SHALL BE SERVICE ENTRANCE RATED.

*** 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.



TELEGENT ENGINEERING INC.
2216 Commerce Road, Suite 1
Forest Hill, MD 21050
410-692-3816
www.tel-eng.com



verizon
OLD TOWN N II - SMALL CELL
RIGHT OF WAY ADJACENT TO 526 N WASHINGTON ST. ALEXANDRIA,
CITY OF ALEXANDRIA, VIRGINIA 22314

REVISIONS:

NO.	DESCRIPTION	DATE

LAST REV.:

PROJECT NO:19126V

DATE:MARCH 26, 2020

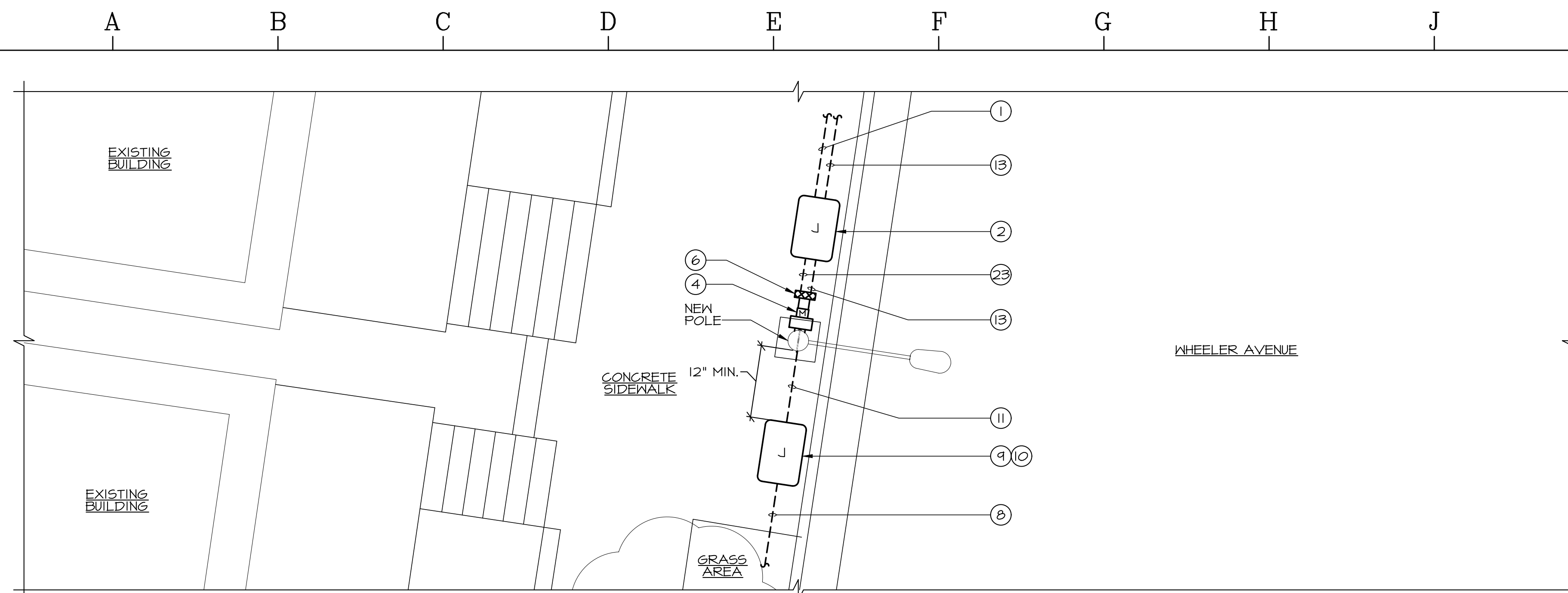
SCALE: AS NOTED

TITLE:

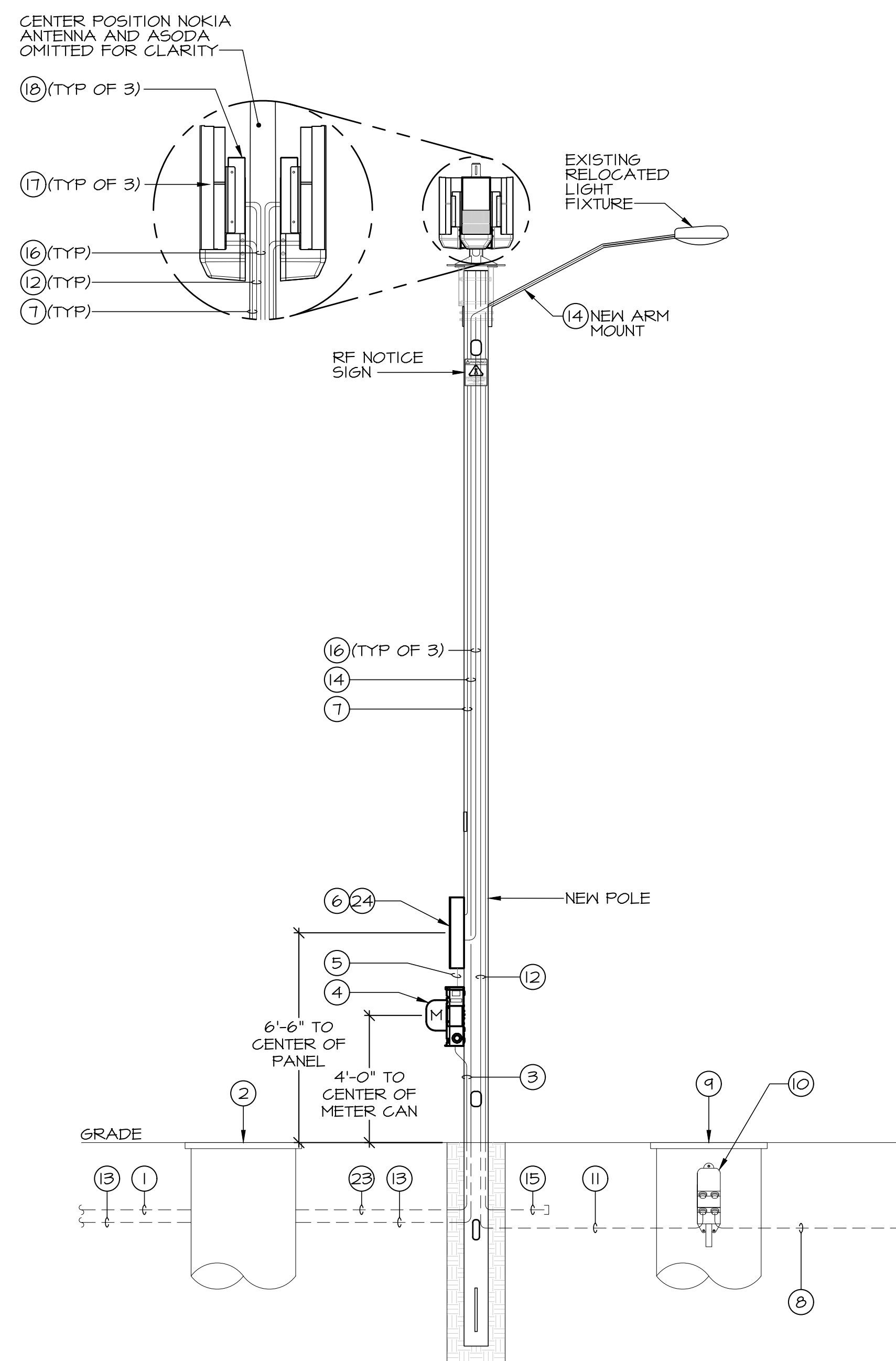
SPECIFICATIONS,
SYMBOLS LIST,
PANEL SCHEDULE
AND DETAILS

SHEET:

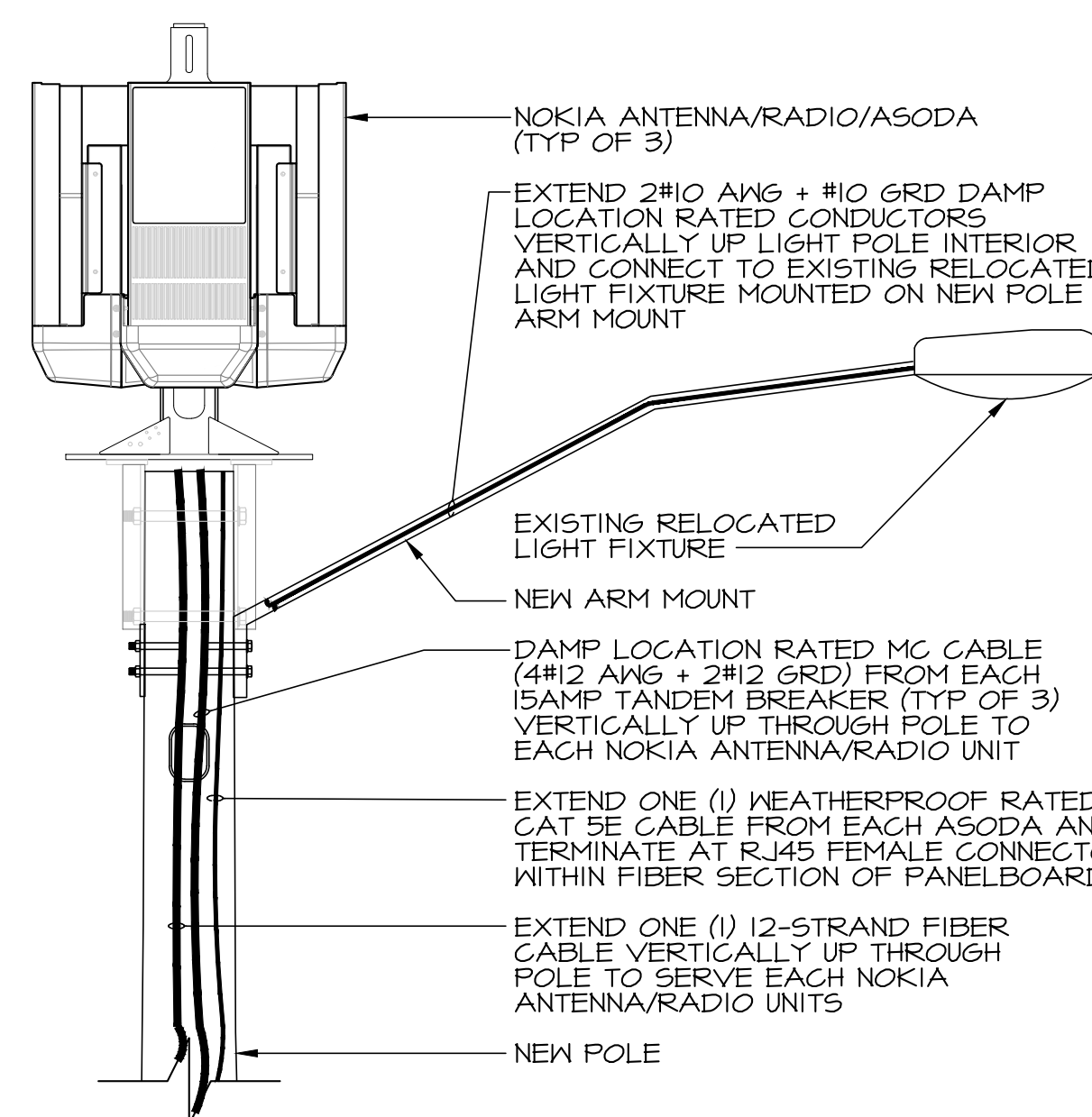
E-2



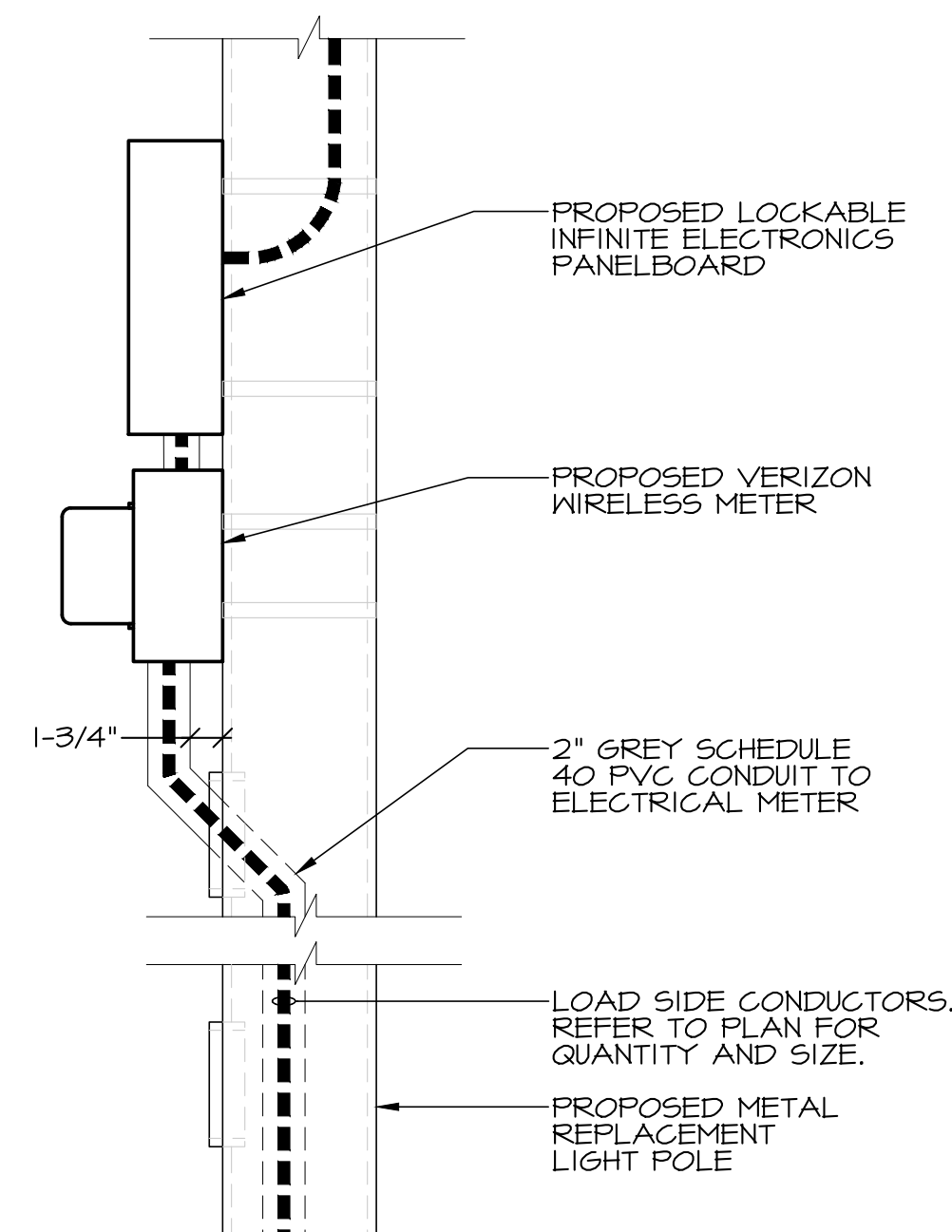
①⑨②① POLE UTILITY PLAN
SCALE: 1/4" = 1'-0"



①⑨②⑦②② POWER RISER DIAGRAM
NO SCALE



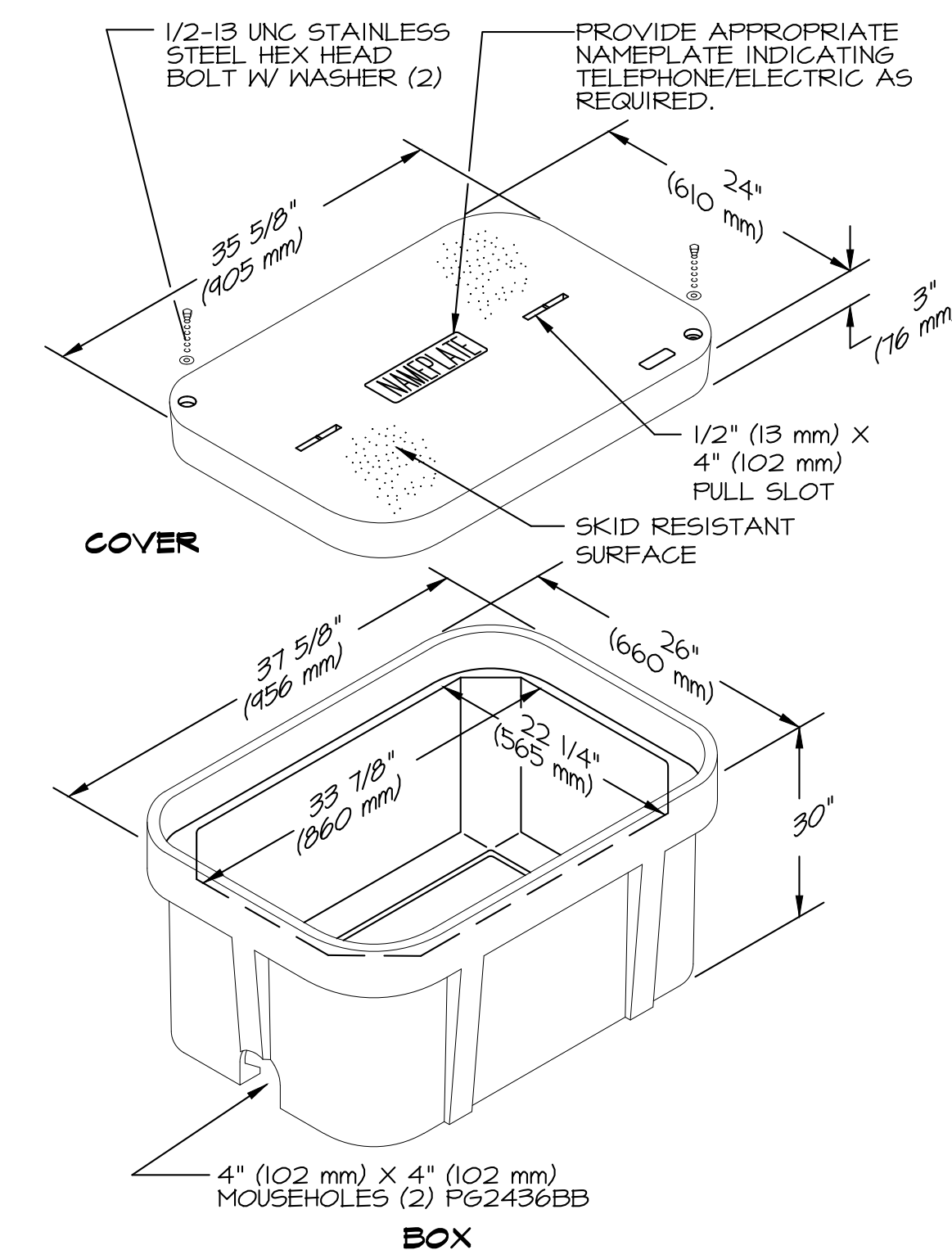
192021 **DETAIL - POLE CABLING**
NO SCALE



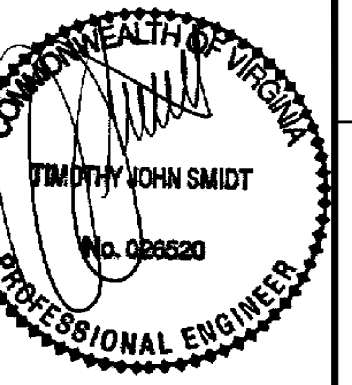
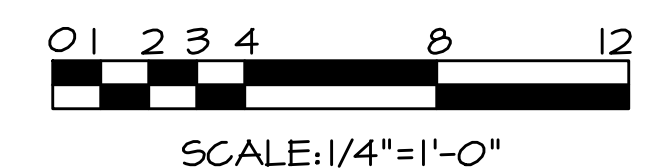
DETAIL - VERTICAL UTILITY COMPANY CONDUIT
NO SCALE

DRAWING NOTES

- (1) CONTRACTOR SHALL EXTEND ONE (1) 4" SCHEDULE 40 PVC CONDUIT BELOW GRADE FROM LOCATION DETERMINED AT TIME OF POWER MAIL TO POWER 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 FEA 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#1 AWG + #6 GRD - 2" CONDUIT FROM UTILITY COMPANY METER TO PROPOSED SERVICE ENTRANCE RATED PANELBOARD MOUNTED ON POLE.
- (6) PROVIDE AND INSTALL WEATHERPROOF SERVICE ENTRANCE RATED, 120/240 VOLT, 1Ø, 3W, 100 AMP M.C.B. PANELBOARD MOUNTED ON POLE. 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/ASODA RADIO 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 FEA 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 NEAR 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 TERMINATE AT RJ45 FEMALE CONNECTOR WITHIN FIBER SECTION OF PANELBOARD. 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 MOUNTED ON POLE.
- (18) VERIZON WIRELESS PROVIDED, CONTRACTOR INSTALLED NOKIA ASODA RADIO UNIT MOUNTED BEHIND NOKIA ANTENNA 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: 120/2Ø8V, 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 LOCK. LOCK SHALL BE PLACED THROUGH GLASS ON LOAD CENTER TO PROHIBIT COVER FROM BEING OPENED. COMBINATION FOR MASTER LOCK IS THE STANDARD VERIZON WIRELESS FOUR DIGIT CODE. CONTRACTOR CANT INSTALL THE COMBINATION LOCK ON THE DISCONNECT UNTIL ALL INSPECTIONS ARE DONE AND FINAL.



DETAIL - JUNCTION BOX
NO SCALE

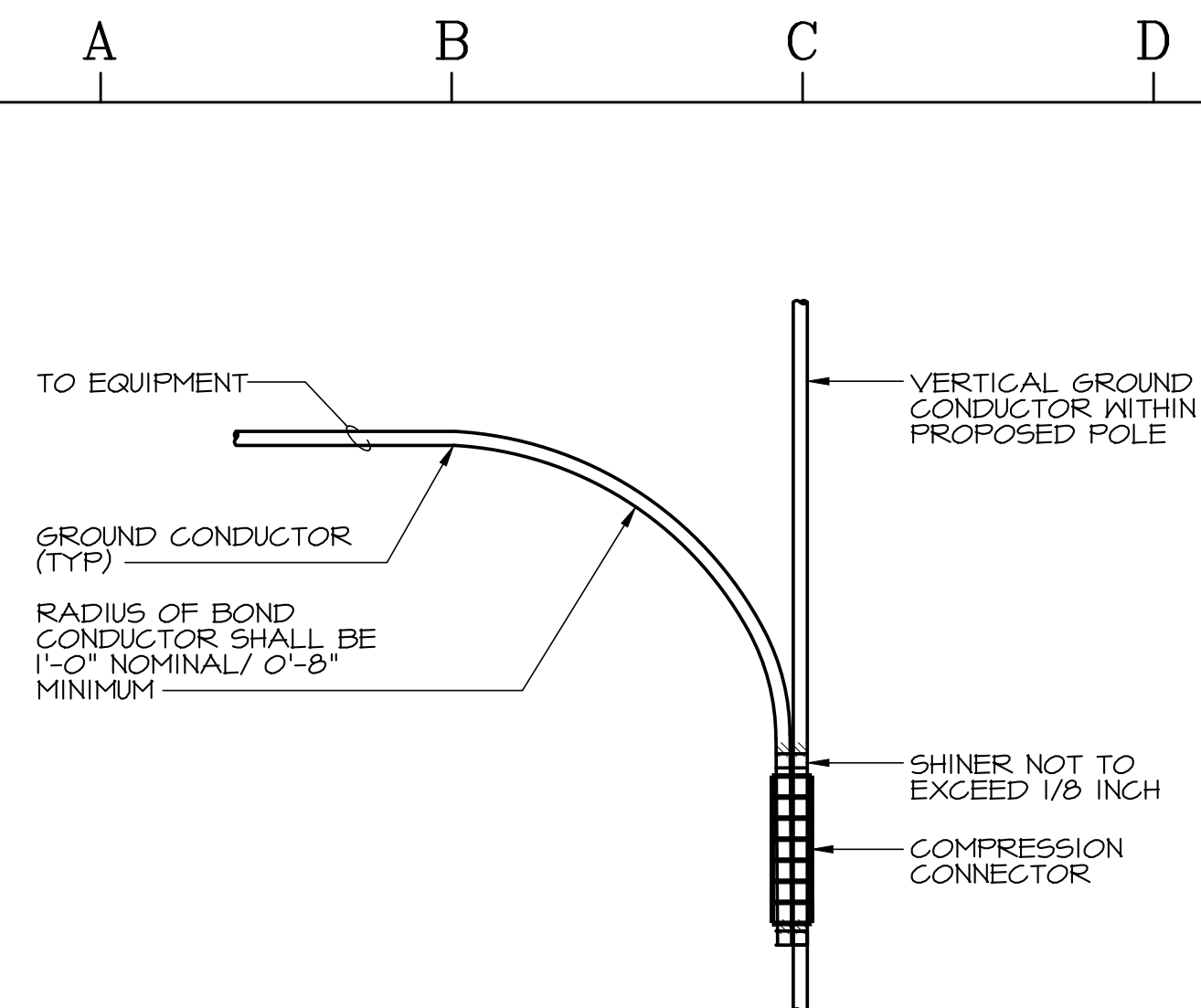


verizon
OLD TOWN N II - SMALL CELL
RIGHT OF WAY ADJACENT TO 506 N WASHINGTON ST, ALEXANDRIA,
CITY OF ALEXANDRIA, VIRGINIA 22314

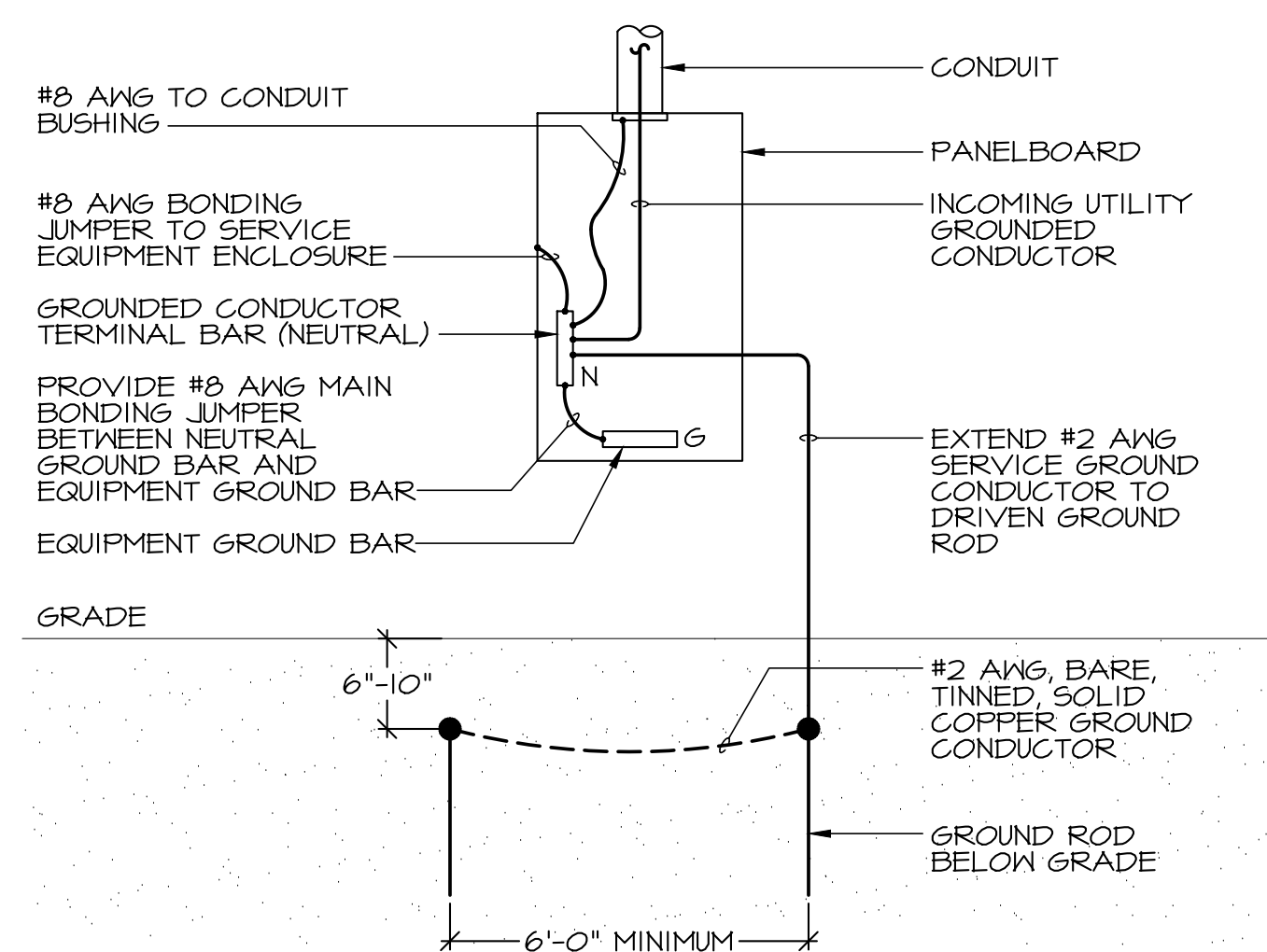
VISIONS:	
DESCRIPTION	DATE
ADDRESS REVS.	5/8/20
PERMIT DWGS.	3/26/20

ST REV.:	
PROJECT NO:19126V	
DATE:MARCH 26, 2020	
SCALE: AS NOTED	
FILE:	
POWER PLAN,	
POWER RISER,	
DETAILS, AND	
NOTES	

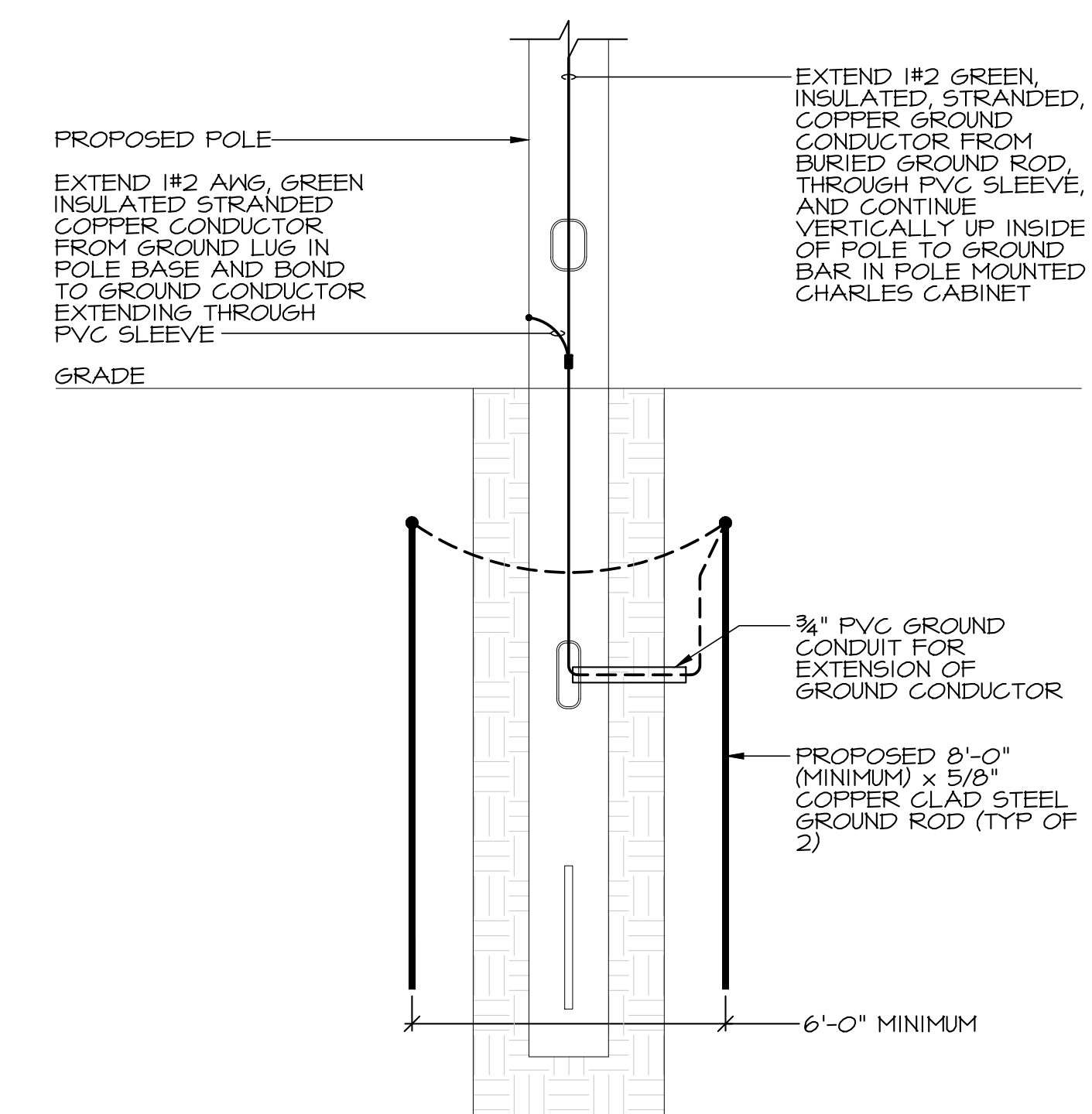
MEET: III-3



DETAIL - DIRECTIONAL SPLICE

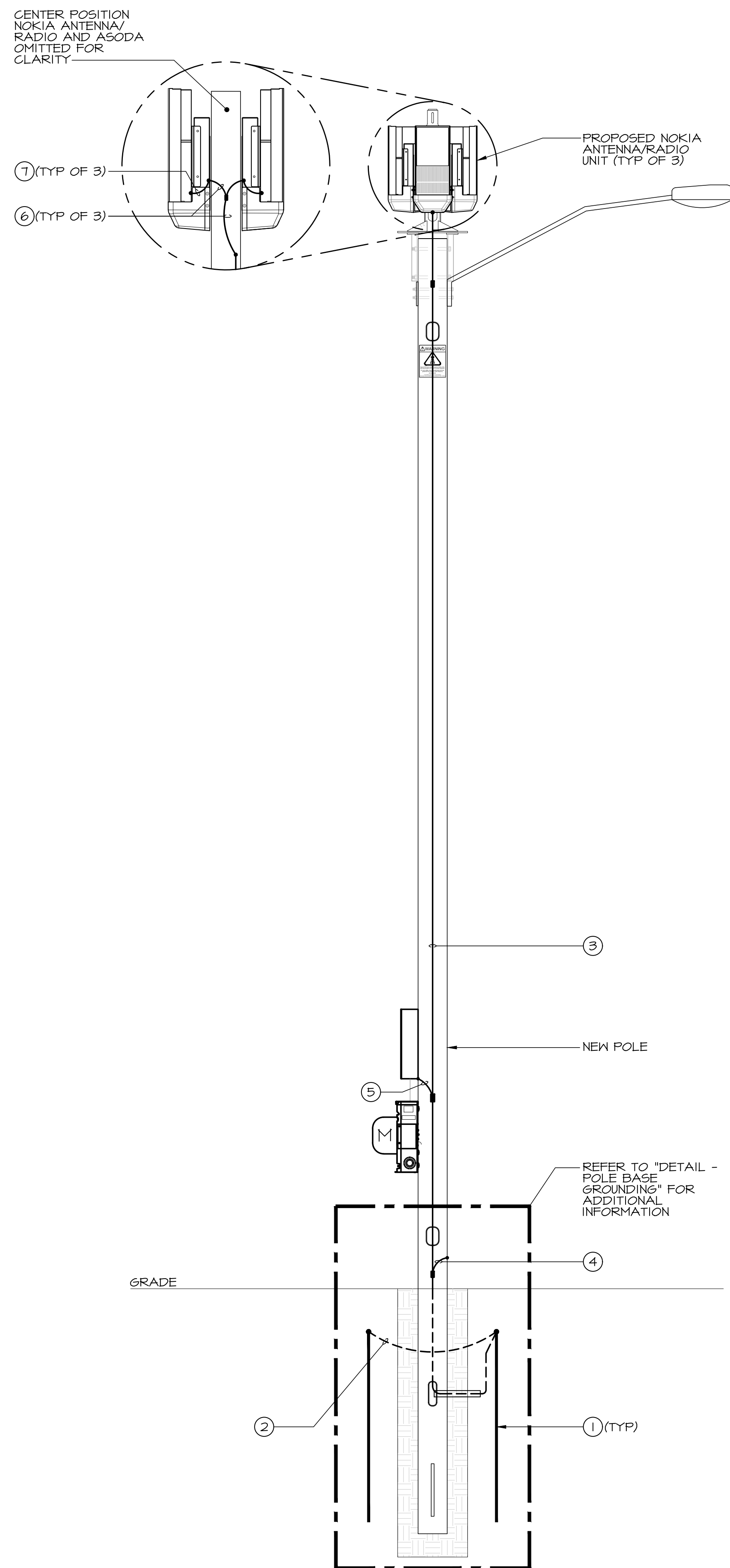


DETAIL - TYP. ELECTRIC SERVICE
GROUNDING ELECTRODE
NO SCALE



DETAIL - POLE BASE GROUNDING

NO SCALE



POLE GROUNDING DIAGRAM

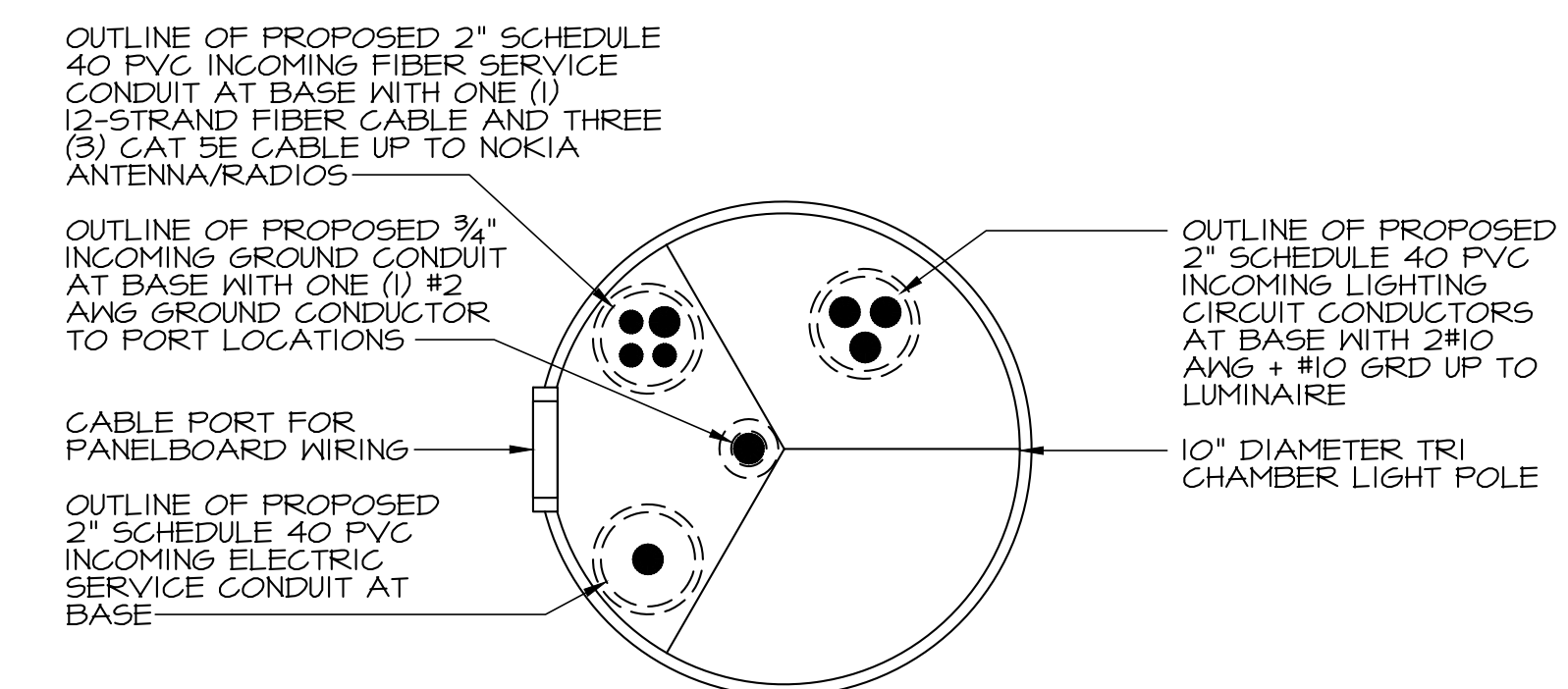
NO SCALE

GROUNDING GENERAL NOTES

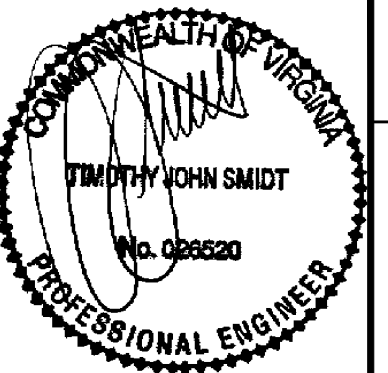
1. ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (CADWELD)/TO NEAREST REINFORCING BAR USING ERICO CADWELD "ONE-SHOT" CONNECTIONS.
2. ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG BARE, TINNED SOLID COPPER, UNLESS NOTED OTHERWISE.
3. ALL GROUND CONNECTIONS ABOVE GRADE SHALL BE TWO-HOLE COPPER COMPRESSION TYPE WITH STANDARD LENGTH BARREL (BURNIDY # YA2CL- 2TC14EI). SINGLE HOLE LUGS ARE NOT ACCEPTABLE.
4. ALL MOUNTING HARDWARE FOR EXTERIOR LOCATIONS SHALL BE GALVANIZED INCLUDING NUTS, BOLTS, FLAT AND LOCK WASHERS.
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. AFTER ALL BARE COPPER SURFACES OF CONDUCTORS SHALL BE COATED PRIOR TO LUGGING. JOINT COMPOUND SHALL BE NO-OX.
6. TYPICAL BI-DIRECTIONAL BONDING CONNECTIONS TO THE INTERIOR GROUND RISER 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".
10. JOINT COMPOUND FOR GROUNDING SHALL BE NO-OX.


DRAWING NOTES

- ① PROVIDE 8'-0" (MINIMUM) X 5/8" COPPER GLAD STEEL GROUND ROD (TYP OF 2).
- ② BURIED GROUND RING SHALL BE #2 AWG, BARE, TINNED, SOLID COPPER.
- ③ EXTEND 1#2 AWG, GREEN INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM BURIED GROUND ROD VERTICALLY UP INSIDE OF LIGHT POLE FOR GROUNDING OF EQUIPMENT/ANTENNAS.
- ④ EXTEND 1#2 AWG, GREEN INSULATED STRANDED COPPER CONDUCTOR FROM GROUND LUG IN POLE BASE AND BOND TO GROUND CONDUCTOR EXTENDING THROUGH PVC SLEEVE.
- ⑤ EXTEND 1#2 AWG, GREEN INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM ENCLOSURE OF PROPOSED PANELBOARD AND BOND TO GROUND CONDUCTOR EXTENDING TO BURIED GROUND ROD. REFER TO SERVICE GROUNDING DETAIL, THIS SHEET FOR ADDITIONAL INFORMATION.
- ⑥ EXTEND 1#6 AWG, GREEN INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM EACH NOKIA 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.
- ⑦ EXTEND 1#6 AWG, GREEN INSULATED, STRANDED COPPER GROUND CONDUCTOR FROM EACH ANTENNA GROUND LUG AND BOND TO NOKIA ASODA GROUND LUG.



DETAIL - CONDUIT STUB-UP
NO SCALE



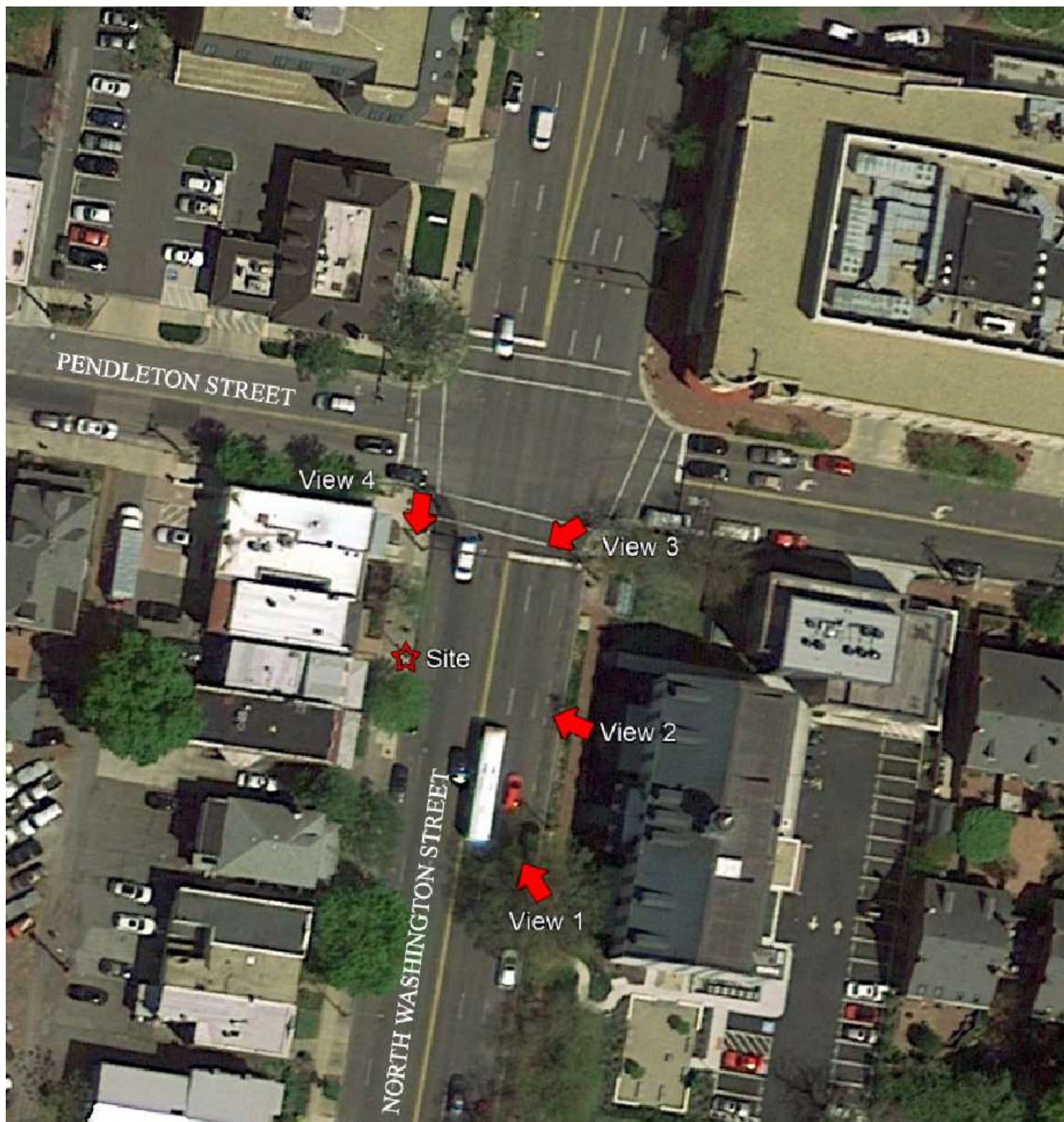
verizon  OLD TOWN N II - SMALL CELL
RIGHT OF WAY ADJACENT TO 526 N WASHINGTON ST, ALEXANDRIA,
CITY OF ALEXANDRIA, VIRGINIA 22314

REVISIONS:		
NO.	DESCRIPTION	DATE
	ADDRESS REVS.	5/8/20
	PERMIT DWGS	3/26/20

LAST REV.:	
PROJECT NO: 19126V	
DATE: MARCH 26, 2020	
SCALE: AS NOTED	
TITLE:	
GROUNDING DIAGRAM, DETAILS, AND NOTES	

SHEET:

III-4



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

Old Town N11 Overall Site Layout

02 April 2020



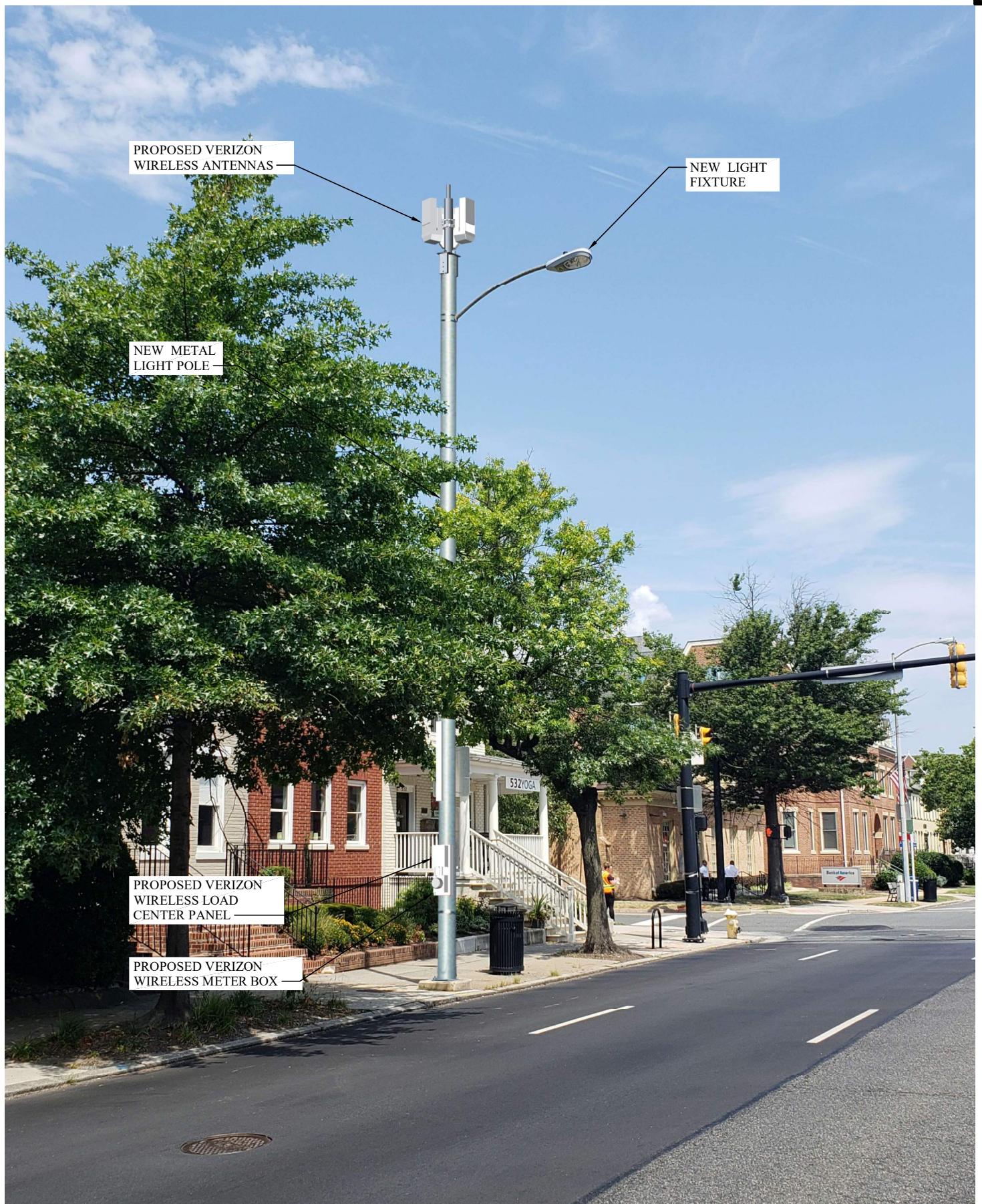


MORRIS & RITCHIE
ASSOCIATES, INC.
1220-C East Joppa Road, Suite 505
Towson, Maryland 21286
410-821-1690
410-821-1748 Fax

Old Town N11 Existing View 1

02 April 2020





PROPOSED VERIZON
WIRELESS ANTENNAS

NEW LIGHT
FIXTURE

NEW METAL
LIGHT POLE

PROPOSED VERIZON
WIRELESS LOAD
CENTER PANEL

PROPOSED VERIZON
WIRELESS METER BOX



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

Old Town N11 Proposed View 1

02 April 2020





EXISTING LIGHT
POLE TO BE
REMOVED



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

Old Town N11 Existing View 2

02 April 2020





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

Old Town N11 Proposed View 2

02 April 2020





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

Old Town N11 Existing View 3

02 April 2020





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

Old Town N11 Proposed View 3

02 April 2020





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

Old Town N11 Existing View 4

02 April 2020

verizon✓



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

Old Town N11 Proposed View 4

02 April 2020

