

**ISSUE:** Certificate of Appropriateness for alterations (small cell facility)

**APPLICANT:** AT&T Mobility

**LOCATION:** Old and Historic Alexandria District  
Dominion Energy utility pole near 1011 North Washington Street

**ZONE:** CD/Commercial Downtown Zone

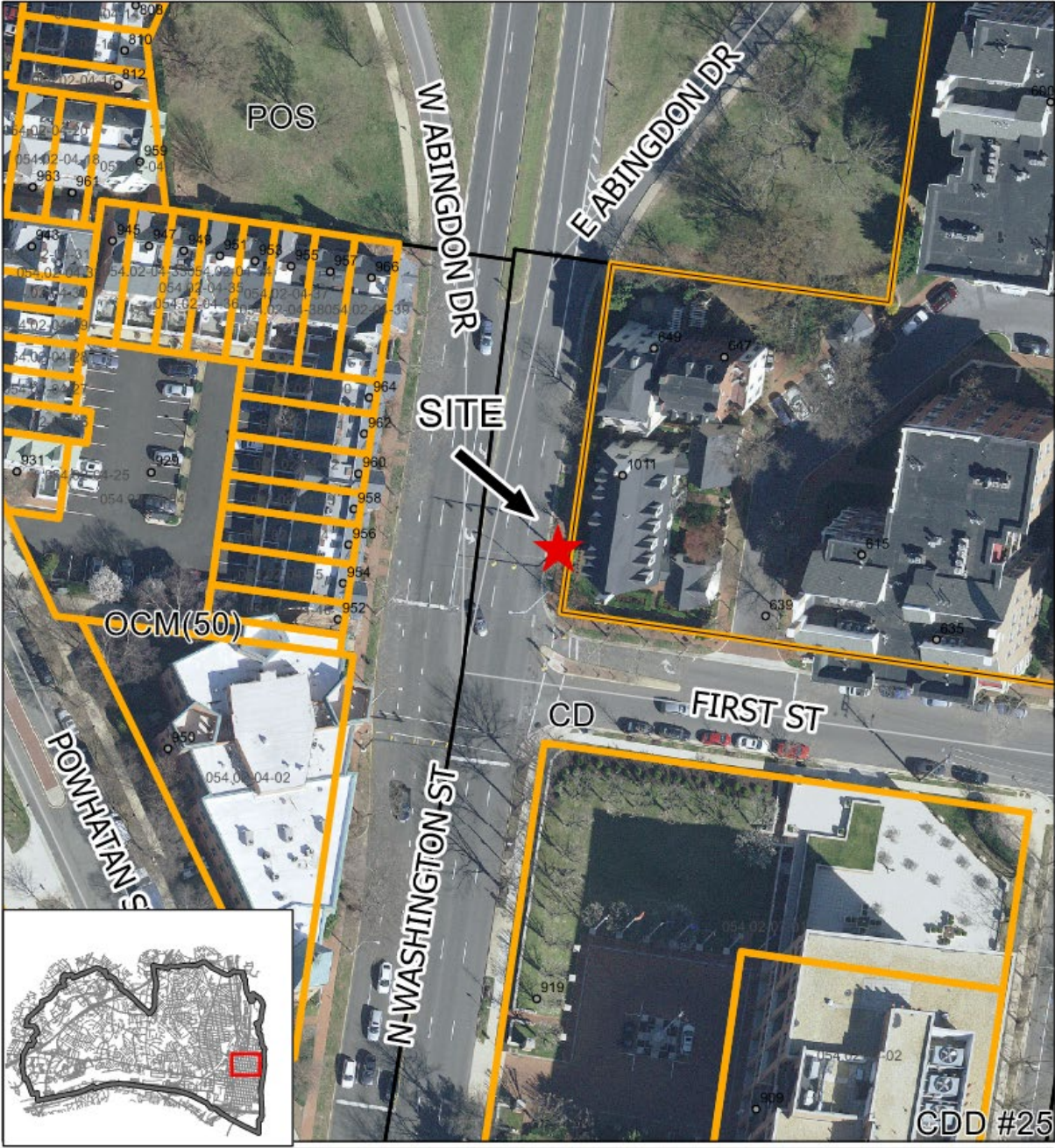
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**STAFF RECOMMENDATION**

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

**GENERAL NOTES TO THE APPLICANT**

1. **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.
2. **COMPLIANCE WITH BAR POLICIES:** All materials must comply with the BAR's adopted policies unless otherwise specifically approved.
3. **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.
4. **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](mailto:preservation@alexandriava.gov) for further information.
5. **EXPIRATION OF APPROVALS NOTE:** In accordance with Sections 10-106(B), 10-206(B) and 10-307 of the Zoning Ordinance, any 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.






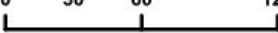
**BAR #2022-00069**

**1011 North Washington Street**

N



0 30 60 120 Feet





## **I. APPLICANT'S PROPOSAL**

The applicant is requesting a Certificate of Appropriateness to replace the existing metal streetlight pole in the right-of-way near the property at 1011 North Washington Street with a taller metal pole on top of which a 5G small cell facility and a 4G antenna will be installed along with the associated equipment which will be mounted to the pole.

### **Certificate of Appropriateness**

- Replace the existing 26'-7" tall concrete streetlight pole with a new 33'-0" HAPCO aluminum streetlight pole.
- Install a AT&T 5G small cell antenna facility strap mounted at 25'-5" above grade
- Install a 4G OMNI antenna on top of the pole, the overall antenna height is 6'-0"
- Install a AT&T 200 AMP meter box on the pole at 4'-6" from grade
- Remove the existing pole

### **Site context**

The subject concrete light pole is located at the northeast corner of the intersection of North Washington and First streets (Figure 1). There is no early building near the subject pole.



**Figure 1 - Existing pole**

## **II. HISTORY**

The property at 1011 North Washington Street is a two-story residential building. This block first appears in the Sanborn Map of 1958, which shows this building as part of the Olde Colony Motor Lodge at 615 First Street. Building permit #6887 was issued to Banks and Lee, Inc. on October 8, **1958** to construct the motor lodge at 615 First Street. The hotel complex was demolished in 2000 as part of the Liberty Row Development (BAR2000-0270), a 63-unit residential condominium. The administration building (the subject property) remained and was converted into a single-family dwelling.

## **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 antennas 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.

In the past three 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. The laws can be contradictory between federal and state in some instances but do recognize that additional guidelines may be necessary in historic districts.

The City has adopted Interim Wireless Facility Aesthetic Guidelines for wireless infrastructure throughout the City which outline specific guidelines related to the replacement of existing utility poles, including:

- pole height may not increase more than 10 feet and may not exceed 50 feet without a special use permit
- replacement poles must be in the same general location as the existing pole
- replacement poles may not cause the removal of an existing tree or cause damaging impacts to trees located in the right-of-way
- wireless facilities must be shrouded, enclosing wires and equipment, and no separate ground mounted equipment is permitted
- wireless facilities must be painted to match the infrastructure

A Certificate of Appropriateness is required in the historic districts under Section 10-103(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...”

The proposed pole design is the A-8 Metal Light Pole Replacement with 4G and 5G Configuration approved by the City Council in December 2020 (Figure 2).



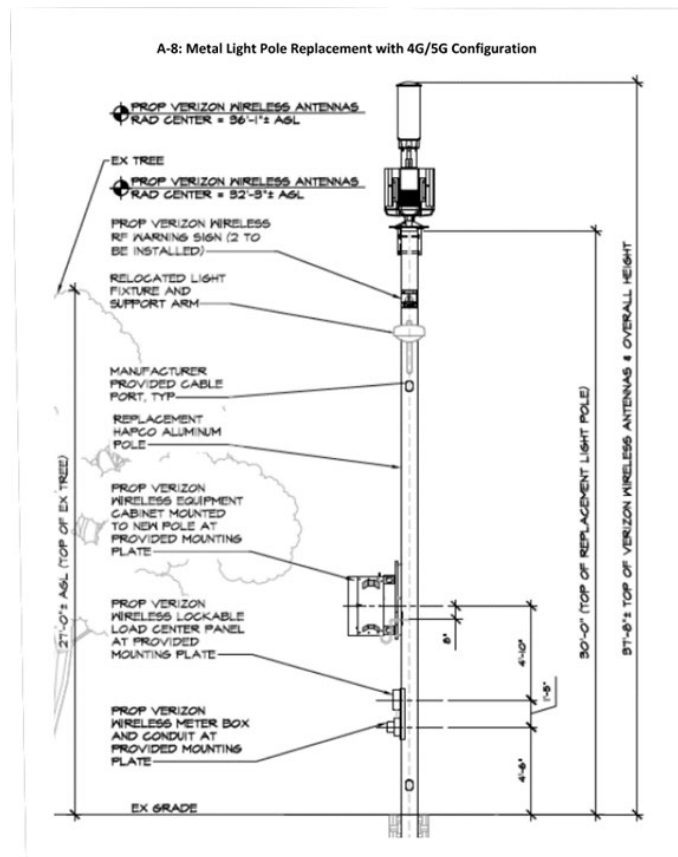


Figure 2 - Design A-8 approved by the City Council

The overall height of the new pole including the small cell facility is 38'-5". BAR staff has no objection to the taller metal pole or the installation of the small cell facility in this location and finds that painting the equipment the same color as the pole will make them less obvious. The existence of utility poles and overhead wires, street signs, and light poles are part of the urban streetscape, and staff does not believe that the installation of the taller pole with the small cell equipment will adversely impact existing viewsheds.

Therefore, staff recommends approval of the Certificate of Appropriateness as submitted.

#### **STAFF**

Marina Novaes, 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 26' 7" feet and overall height is 38' 5".**

- F-2 Pole must be in the same general location as existing pole.  
**Pole will replace an existing pole currently in place.**
- F-3 The pole is not located in a manner that requires the removal of an existing tree or impacts of root zone.  
**Pole is adjacent to tree well.**



- F-4 Pole 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 metal pole**

### Code Administration

Code Administration has no comments.

### Transportation and Environmental Services

- 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)
- 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)
- 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)

**National Park Service**

See attachment.

**Alexandria Archaeology**

- F-1 No archaeological oversight necessary.

**V. ATTACHMENTS**

*1 – Application Materials*

*2 – Supplemental Materials*



ADDRESS OF PROJECT: 1011 N Washington StDISTRICT: ☒ Old & Historic Alexandria ☐ Parker – Gray ☐ 100 Year Old BuildingTAX MAP AND PARCEL: 054.02-0A-63ZONING: CDAPPLICATION 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: AT&T MobilityAddress: 7150 Standard DriveCity: Hanover State: VA Zip: 21076

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Authorized Agent *(if applicable)*: ☐ Attorney ☐ Architect ☒ ContractorName: SmartlinkPhone: 301-509-5518E-mail: brian.taylor@smartlinkgroup.com

Legal Property Owner:

Name: Dominion EnergyAddress: 3072 Centreville RoadCity: Herndon State: VA Zip: 20171Phone: \_\_\_\_\_ E-mail: austin.d.gore@dominionenergy.com

- ☐ 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                      ☐ fence, gate or garden wall    ☐ HVAC equipment                      ☐ shutters  
     ☐ doors                        ☐ windows                              ☐ siding                                      ☐ shed  
     ☐ lighting                      ☐ pergola/trellis                      ☐ painting unpainted masonry  
     ☒ other - Metal street light pole/Small Cell installation  
☐ ADDITION  
☐ DEMOLITION/ENCAPSULATION  
☐ SIGNAGE

**DESCRIPTION OF PROPOSED WORK:** *Please describe the proposed work in detail (Additional pages may be attached).*

Replacing an existing metal street light pole for the purposes of installing 4G and 5G antennas and related equipment to a replacement Dominion owned metal (HAPCO) street light pole

**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.

Electronic copies of submission materials should be submitted whenever possible.

**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. All plans must be folded and collated into 3 complete 8 1/2" x 11" sets. Additional copies may be requested by staff for large-scale development projects or projects fronting Washington Street. Check N/A if an item in this section does not apply to your project.*

- ☐ <sup>N/A</sup> ☐ 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.*

- ☐ <sup>N/A</sup> ☐ 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.*

- ☒ <sup>N/A</sup> ☐ 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 3 sets of 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: Brian Taylor  
Printed Name: Brian Taylor  
Date: 02/11/22

## 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. AT&T Mobility	7150 Standard Drive	100%
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. Dominion Energy	1011 N Washington St	100%
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. Brian Taylor	N/A	N/A
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.

Brian Taylor

Brian Taylor

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Signature









## EXISTING VIEW



PROPOSED NEW AT&T CANISTER OMNI ANTENNA W/ POLE-TOP RADIO CONCEALMENT MOUNTED TO PROPOSED METAL STREET LIGHT (PAINTED TO MATCH). CENTERLINE OF PROPOSED AT&T POLE-TOP CONCEALMENT @ ELEVATION = 34'-8" AGL.

PROPOSED NEW 5G ANTENNA ON STRAP MOUNT POLE KIT MOUNTED TO PROPOSED METAL STREET LIGHT (PAINTED TO MATCH). CENTERLINE OF PROPOSED 5G AT&T ANTENNA @ ELEVATION = 25'-5" AGL.

PROPOSED NEW RAYCAP 200 AMP METER/100 AMP DISCONNECT COMBO KIT MOUNTED TO PROPOSED METAL STREET LIGHT (PAINTED TO MATCH). CENTERLINE OF PROPOSED METER/DISCONNECT COMBO KIT @ ELEVATION = 4'-6" AGL.

## PROPOSED VIEW





## EXISTING VIEW

## PROPOSED VIEW

PROPOSED NEW AT&T CANISTER OMNI ANTENNA W/ POLE-TOP RADIO  
CONCEALMENT MOUNT MOUNTED TO PROPOSED METAL STREET LIGHT  
(PAINTED TO MATCH). CENTERLINE OF PROPOSED AT&T POLE-TOP  
CONCEALMENT @ ELEVATION = 34'-8" AGL.

PROPOSED NEW 5G ANTENNA ON STRAP MOUNT POLE KIT  
MOUNTED TO PROPOSED METAL STREET LIGHT (PAINTED TO  
MATCH). CENTERLINE OF PROPOSED 5G AT&T ANTENNA @  
ELEVATION = 25'-5" AGL.

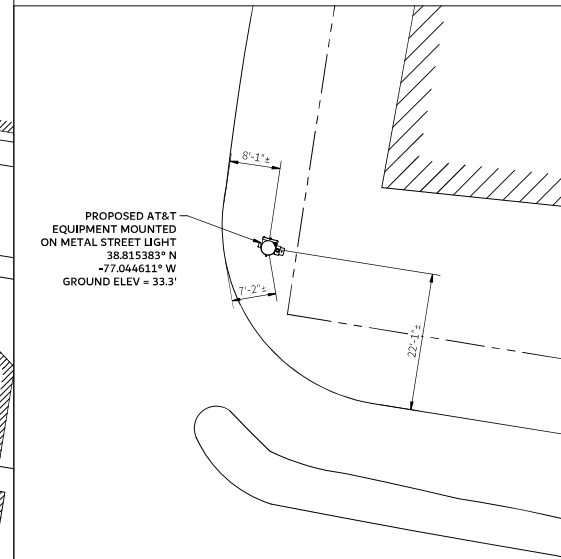
PROPOSED NEW RAYCAP 200 AMP METER/100 AMP DISCONNECT  
COMBO KIT MOUNTED TO PROPOSED METAL STREET LIGHT (PAINTED  
TO MATCH). CENTERLINE OF PROPOSED METER/DISCONNECT COMBO  
KIT @ ELEVATION = 4'-6" AGL.











GRAPHIC SCALE:  
20' 10' 0 10' 20'  
SCALE (11x17): 1" = 20'-0"  
SCALE (22x34): 1" = 10'-0"







1 EXISTING CONE  
C-1 SCALE: 3/16" = 1'-0"



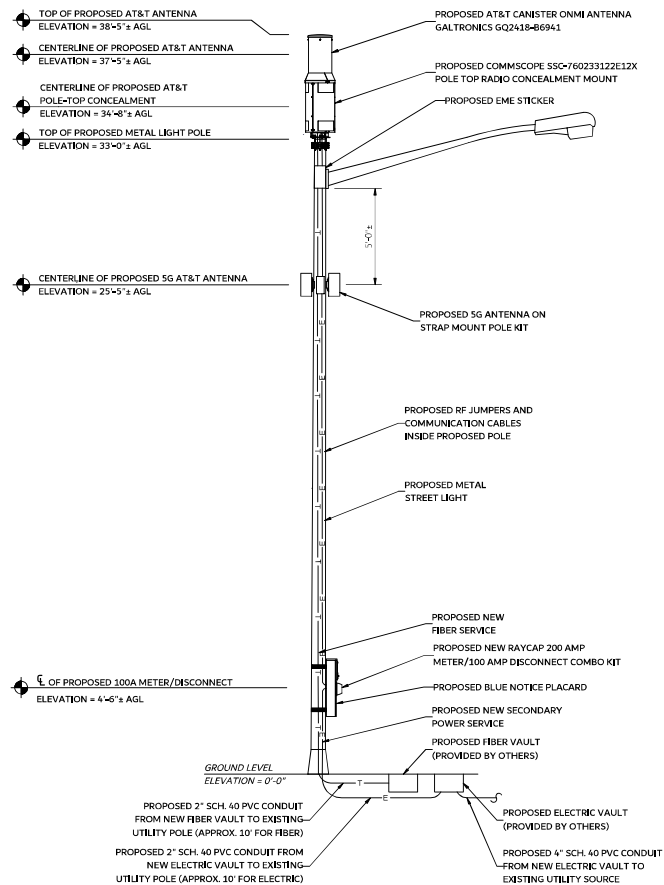
2 EXISTING ELEVATION  
C-1 SCALE: 3/16" = 1'-0"



3 EXISTING PRO  
C-1 SCALE: 3/16"=1'-0"

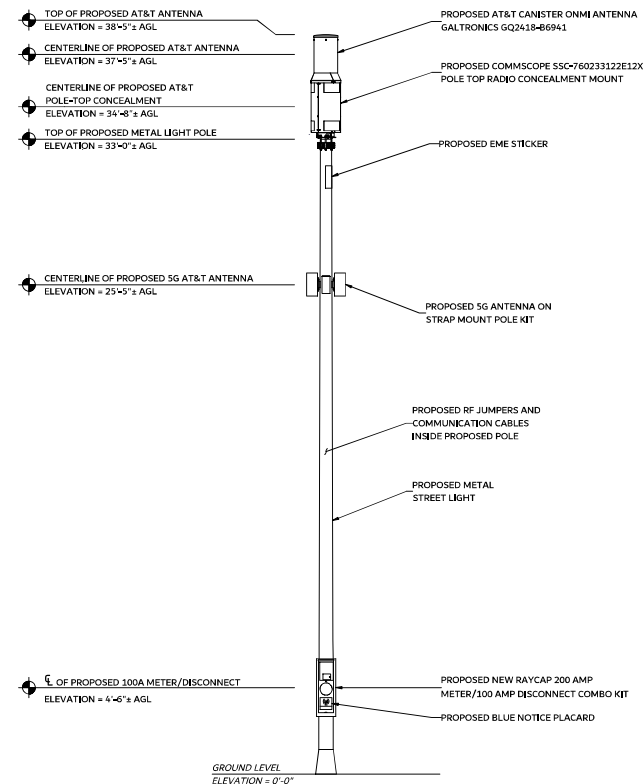
STRUCTURAL ANALYSIS NOT COMPLETED AT TIME OF ISSUANCE  
OF THESE DRAWINGS. THE STRUCTURAL ANALYSIS MUST BE  
COMPLETED PRIOR TO CONSTRUCTION





NOTE:

STRUCTURAL ANALYSIS NOT COMPLETED AT TIME OF  
ISSUANCE OF THESE DRAWINGS. THE STRUCTURAL ANALYSIS  
MUST BE COMPLETED PRIOR TO CONSTRUCTION

[illegible]

RELEASED BY	DATE
MATTHEW JAMERSON	10/07/21



UNAUTHORIZED ALTERATION OR ADDITIONS TO A PLAN  
BEARING THE SEAL OF A LICENSED ENGINEER OR LAND  
SURVEYOR IS A VIOLATION OF LOCAL LAW

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA. LICENSE NO. 0402061949 EXP. 03/12/2022

### SITE INFORMATION

AT&amp;T NEW CRAN BUILD

**SITE ADDRESS**

CRAN\_RWSH\_ALEXA\_063B  
1011 NORTH WASHINGTONS  
ST.  
ALEXANDRIA, VA 22314

SHEET TITLE

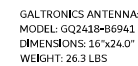
**PROPOSED  
ELEVATION  
VIEW**

SHEET NUMBER

**C-2**





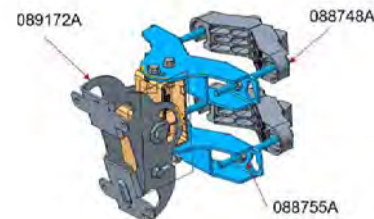
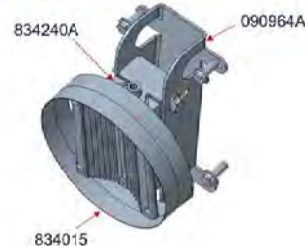


Specification	Details
5G Band/Frequency	n26, 31700-43000 MHz
RF Output Power	ERP 51 dBm
Max Supported Modulation	256 QAM 10 / 64 QAM 10L
RF Bandwidth	CBW: 80MHz, 15W, 1400MHz <sup>2</sup>
Carrier	Up to eight 100MHz 5G NR carriers
Carrier Bandwidth	50, 100, 200, 400MHz
Physical Size	Dimensions: 363mm x 243mm x 113mm (mm) Volume: 12L, Weight: 12kg (with integrated antenna)
Synchronization	via AC/DC 5BU
Backhaul Port	2 x SFP28 (QSFP)
Antenna	1 Configuration: Integrated 2T2R2B 2x20B AE w/ 2 single polarized & 8 arrays per panel Horizontal Steering Angle: +/- 30°, Vertical Steering Angle: +/-30° Horizontal BVA: 12°, Vertical BVA: 9°
Operating Temp	-40°C ~ +50°C
Input Power	160 ~ 250 VAC, -40.5 ~ -57 VDC
Power Consumption	370W Typ
Other Interface	2 status LEDs and interconnect to Supplementary unit
Cooling	Forced Air
Ingress Protection Class	IP65
Surge Protection	Class II SDA
Installation Options	Wall, Pole, and Stand

- Compact form factor enabling mass deployments of 5G-NR (mmWave)
- Main module incl. Antenna for 180° coverage + Extension Antenna module for 360° coverage
- Wide 1400MHz Instantaneous Bandwidth
- Modular platform that combines with RAP DU Module (ASoD) on site



**474923A :AMEB AirScale Strap Mount Pole Kit**  
Any size pole up to 6 inch pole with band straps included.  
Larger poles require customer to purchase larger band  
straps to accommodate pole.



1 NOKIA - 5G ANTENNA DETAIL  
C-5 NOT TO SCALE

## 2 ANTENNA MOUNTING DETAILS

The diagrams illustrate the physical and coverage characteristics of the antenna system. On the left, a side view of the 4-inch pole antenna is shown, with a note indicating that a pole extension is used for pole mounting. In the center, the top view of the 4-inch pole antenna is shown, highlighting its compact size. To the right, the top view of the flat panel antenna is shown, which is larger and features four distinct beam coverage areas labeled AEWE and AEWD. Below these, a UE perspective diagram shows the single cell with 64 beams, which the UE perceives as four virtual cells.

Side view  
4-inch pole  
(Use pole extension for Pole Top Mount)

Top view  
4-inch pole

Top View  
Flat Panel Mounted  
180° - AWED only

- Quasi - omni
- 4 active beamforming antenna array panels providing 360° coverage
- Single cell efficiently sharing resources in coverage areas where required
- Perceived as 4 "virtual" cells
- UE perspective, single cell with 64 beams
- EMS sees this as one cell

### 3 5G ANTENNA MOUNTING DETAILS

[illegible]

RELEASED BY	DATE
MATTHEW JAMERSON	10/07/21



UNAUTHORIZED ALTERATION OR ADDITIONS TO A PLAN  
BEARING THE SEAL OF A LICENSED ENGINEER OR LAND  
SURVEYOR IS A VIOLATION OF LOCAL LAW

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT  
THESE DOCUMENTS WERE PREPARED OR APPROVED BY  
ME, AND THAT I AM A DULY LICENSED PROFESSIONAL  
ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA  
LICENSE NO. 0402061949 EXP. 03/12/2022

0 1 2 3 4 5 6 7 8 9 10 11 12

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

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1001 1002 1003 100

SITE INFORMATION

AT&amp;T NEW CRAN BUILD

SITE ADDRESS

CRAN\_RWSH\_ALEXA\_063B  
1011 NORTH WASHINGTON  
ST.  
ALEXANDRIA, VA 22314

SHEET TITLE

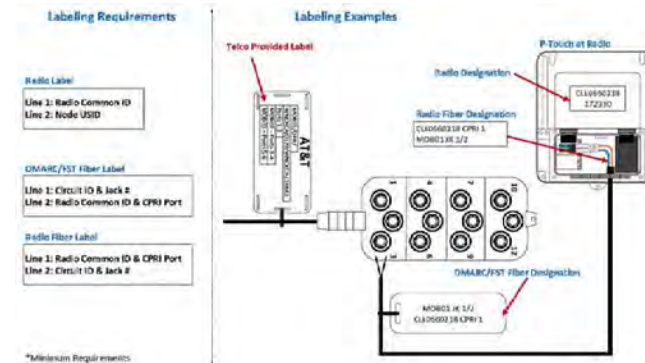
## 5G ANTENNA DETAILS

SHEET NUMBER

C-5

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1 PLUMBING  
C-6 NOT TO SCALE



2 FIBER P-TON  
C-6 NOT TO SCALE

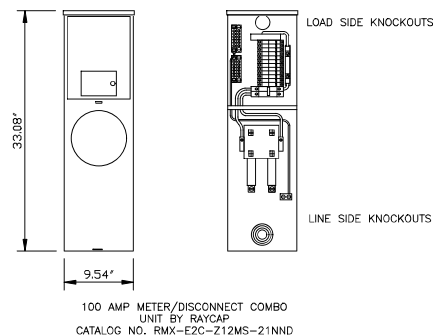
ANTENNA SCHEDULE								
SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA DIMENSIONS	RAD CENTER	TIP HEIGHT	AZIMUTH	CABLE LENGTH
ALPHA 1	PROPOSED	GALTRONICS	GQ2418-B6041	24.0"x16"Ø	37°-05"	38°-05"	0°-259º	RRH MODEL
								AHF B 25 (PCS) - CEQ.20198
								AH B6 B6 (AWS) - CEQ.20197
								AZR B B46 (LAA) - CEQ.20927
ALPHA 2	PROPOSED	NOKIA	5G-NR AEW0	12.75"H x 9.25"W x 6"D	25°-05"	25°-11"	0°-359º	INTEGRATED

3 ANTENNA S  
C-6 NOT TO SCALE





1. LINE SIDE CONDUCTORS TO ENTER BOTTOM KNOCKOUT IN REAR (#6 AWG - 4/0).
2. LOAD SIDE CONDUCTORS TO ENTER TOP KNOCKOUT IN REAR.
3. 120/208 VOLT SERVICE REQUIRES 5TH LUG.
4. BREAKER INTERRUPTING RATING IS 10,000 AMPS SYMMETRICAL.
5. UNIT ATTACHED TO MOUNTING PLATE WITH EIGHT 5/16" 18NC STAINLESS STEEL SCREWS.  
- SCREWS ARE PROVIDED WITH THE POLE.



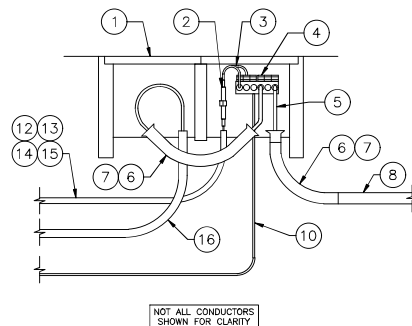
**1 RAYCAP METER/DISCONNECT PANEL DETAILS**  
E-1 NOT TO SCALE

NOTES:

1. COMPANY CONDUCTORS IN SIDE MARKED "DOMINION".
2. CUSTOMER CONDUCTORS IN SIDE MARKED "PVT ELECTRIC".
3. SPICE BOX NOT CLOSER THAN 3" FROM POLE AUGER HOLE.
4. STREETLIGHT CONDUCTORS AND CONDUIT TO ENTER POLE CHAMBER "C".
5. IF NEEDED, CUW CONDUIT AT LEAST 12" INTO POLE CHAMBER.
6. CUSTOMER CONDUCTORS AND CONDUIT TO ENTER POLE CHAMBER "A".
7. CUSTOMER TO LEAVE AT LEAST 6" OF CONDUIT FOR TERMINATING IN SPICE BOX.
8. CU SB0X36D IS MATERIAL ONLY.
9. IF NEEDED, SERVE SECOND STREETLIGHT WITH SEPARATE CONDUCTORS

REMARKS:

KEY	STOCK NO.	DESCRIPTION	QUANTITY	SBOX360
1	42350224	SPLICE BOX, W/ DIVIDER, 36"x24"x18"	1	1
2	66265000	FUSE, INLINE SUBMERSIBLE	1	—
3	67507400	#4 COPPER, 3 CONDUCTORS	SPECIFY	—
4	42338502	CONNECTOR, #6 - 500 AL/CU, SUBMERSIBLE	1	—
5	SPECIFY	SECONDARY, 3 CONDUCTOR	SPECIFY	—
6	71291500	90 DEG. ELBOW, 2"	2	2
7	71009100	BELL END, 2"	3	3
8	71162000	PVC CONDUIT, 2"	SPECIFY	—
9	57878000	5/8" COPPER CLAD GROUND ROD, 8 FOOT	1	—
10	53711000	#4 COPPER, BARE	20'	—
11	57814000	GROUND ROD CLAMP	1	—
12	65122000	1" LFNC FLEX CONDUIT	SPECIFY	—
13	70200500	#10 COPPER, BLACK	SPECIFY	—
14	70200600	#10 COPPER, WHITE	SPECIFY	—
15	70200700	#10 COPPER, GREEN	SPECIFY	—
16	NA	CUSTOMER OWNED CONDUCTOR AND CONDUIT	NA	—



**2 SPLICE BOX DETAILS**  
**E-1 NOT TO SCALE**

LOAD CENTER W/ SURGE PROTECTIVE DEVICE									
<b>PANEL NO. LC1</b> CIRCUITS: 12 POSITION ENCLOSURE TYPE: NEMA 4 INDICATING SURFACE MODEL: RAYCAP R55CAC/7239-240 [18" W X 9" W X 3.25" D, 0.38CU.F.T.]				VOLTAGE / PHASE / WIRE: 120/240 VAC, OR 120/208 VAC, 1PH/3W, 60HZ MAIN BUS: 100 AMP, 22,500A BRACING MAIN BREAKER / INTERRUPTING RATING: 100 AMP FRAME / 100 AMP TRIP, 22,500 KAC (WITH NEUTRAL, BAR, GROUND BAR, AND NEUTRAL-TO-GROUND MAIN BONDING JUNCTION) SPD RATING: 51A DIRECT SURGE, 60KA INDUCED SURGE CONNECTION: BE ASG TO H2 TO ASG					
CKT. NO.	DESCRIPTION	DEVICE	H1 (VW)	H2 (VW)	WIRE	GND	H1	H2	NOTES
1	GFCI RECEPTACLE	15A/ 1P	360		12	12			INTERNAL TO LOAD CENTER
B	SPARE	15A/ 1P							
2	J300A AIRCIRCUIT #1	15A/ 1P		344	12	12			
A	SPARE	15A/ 1P							
3	J300A AIRCIRCUIT #2	15A/ 1P		344	12	12			
B	SPARE	15A/ 1P							
4	LAA	15A/ 1P		344	12	12			
B	SPARE	30A/ 1P ▲							
5	SPARE	30A/ 1P							
6	SPARE	30A/ 1P ▲							
PHASE TOTAL			704	688					

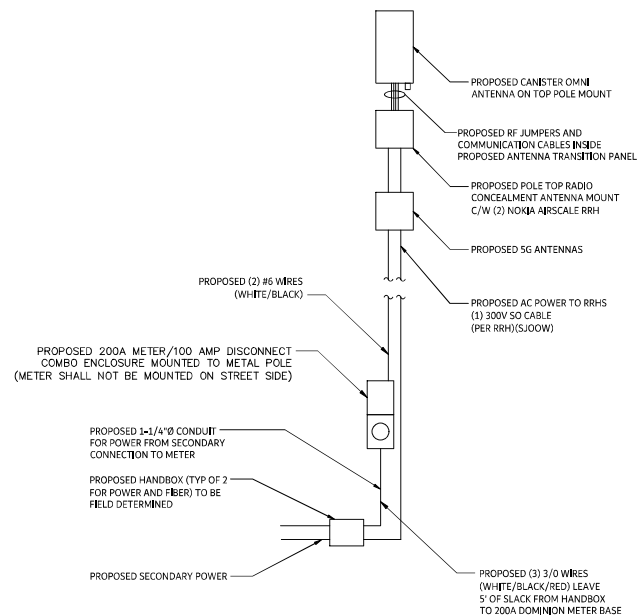
PANEL TOTAL 1,392 VA

★

★ BREAKER TRIP TOGETHER FOR 240VAC, 1PH OPERATION

PANEL CAPACITY ~ 2,000 VA

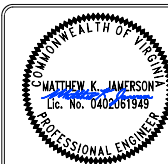
**3 RAYCAP METER/DISCONNECT PANEL DETAILS**  
E-1 NOT TO SCALE



4 AC ONE-LINE DIAGRAM  
E-1 NOT TO SCALE

[illegible]

RELEASED BY	DATE
MATTHEW JAMERSON	10/07/2



UNAUTHORIZED ALTERATION OR ADDITIONS TO A PLAN  
BEARING THE SEAL OF A LICENSED ENGINEER OR LAND  
SURVEYOR IS A VIOLATION OF LOCAL LAW

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT  
THESE DOCUMENTS WERE PREPARED OR APPROVED BY  
ME, AND THAT I AM A DULY LICENSED PROFESSIONAL  
ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA  
LICENSE NO. 0402061949 EXP. 03/12/2022

1 2

0402061949

**SITE INFORMATION**

AT&amp;T NEW CRAN BUILD

SITE ADDRESS

CRAN\_RWSH\_ALEXA\_063B  
1011 NORTH WASHINGTON  
ST.  
ALEXANDRIA, VA 22314

SHEET TITLE

### AC PANEL INFORMATION

SHEET NUMBER

**E-1**

- 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.
2. ALL WORK UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, STATE, BOCA, AND LOCAL ELECTRICAL CODES THAT GOVERN EACH PARTICULAR TRADE AND THE 2014 NATIONAL ELECTRICAL CODE.
3. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL EQUIPMENT INSTALLATION WITH ALL TRADES.
4. 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.
5. NO MATERIALS OR EQUIPMENT SHALL BE USED IN THE WORK UNTIL APPROVED. ALL MATERIALS SHALL BE U.L. LISTED.
6. 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 CONTRACTOR DOCUMENTS.
7. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENTS 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 CONTRACTORS EXPENSE.
8. PROVIDE SUFFICIENT ACCESS AND CLEARANCE FOR ALL ITEMS OF EQUIPMENT REQUIRING SERVICING AND MAINTENANCE.
9. THE CONTRACTOR SHALL PERFORM ALL NECESSARY CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE INSTALLATIONS. PATCHING OF WALLS, FLOORS, CEILINGS, ETC. SHALL MATCH THE ADJACENT SURFACES.
10. THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A RECORD AN INFORMATION BOOKLET. THE BOOKLET SHALL BE BOUND IN A THREE RING LOOSE-LEAD BINDER AND INCLUDE ALL ITEMS OF ELECTRICAL EQUIPMENT.
11. UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS OF THE ELECTRICAL INSTALLATION DRAWINGS WHICH SHALL BE LEGIBLY MARKED IN RED TO SHOW ALL CHANGES AND DEPARTURE OF THE INSTALLATIONS COMPLETED WITH THE ORIGINAL DESIGN. THEY SHALL BE SUITABLE FOR USE IN PREPARATION OF RECORD DRAWINGS.
12. GUARANTEE: NEW ELECTRICAL INSTALLATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR BEGINNING THE DAY OF THE FINAL ACCEPTANCE OF THE WORK OR BENEFIT OF THE WARRANTY OF THE OWNER, WHICHEVER OCCURS FIRST. THE ABOVE SHALL NOT IN ANY WAY VOID OR ABROGATED EQUIPMENT MANUFACTURER'S GUARANTEE OR WARRANTY. CERTIFICATES OF GUARANTEE SHALL BE DELIVERED TO THE OWNER. UPON RECEIPT OF THE 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 AT&T.
13. ANY ELECTRICAL WORK WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE AT&T REPRESENTATIVE.
14. 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.
15. THERE SHALL BE NO INTERRUPTION OF POWER TO EXISTING ELECTRICAL SYSTEMS WITHOUT PRIOR CONSENT FROM AT&T. SUCH INTERRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE SCHEDULED WITH THE OWNER AT LEAST THREE BUSINESS DAYS IN ADVANCE OF THE OUTAGE. ANY COST FOR WORK THAT MUST BE DONE ON AN OVERTIME BASIS SHALL BE INCLUDED IN THE BID.
16. MOUNTING AND SUPPORTING OF ALL EQUIPMENT PROVIDED BY THIS CONTRACTOR SHALL BE COORDINATED WITH AT&T IN THE FIELD.
17. 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 UNIFORMED IN APPEARANCE AND SHALL MATCH THE SURROUNDING SURFACE. ALL PENETRATIONS THROUGH WALLS OF NEW ROOM SHALL BE SEALED WEATHERTIGHT.

A. ELECTRICAL SERVICE:

1. ELECTRICAL POWER TO THE NEW EQUIPMENT SHALL BE EXTENDED FROM THE PROPOSED UTILITY COMPANY METER AND PROPOSED SERVICE ENTRANCE RATED LOAD CENTER PANEL MOUNTED ON UTILITY POLE.

B. COMMUNICATIONS SERVICE:

1. TELEPHONE SERVICES SHALL BE EXTENDED BY THE TELEPHONE COMPANY. PROVIDE SERVICE CONDUITS, BACKBOARDS, SLEEVES, AND OTHER EQUIPMENT SHOWN ON THE DRAWINGS FOR USE BY THE TELEPHONE COMPANY. ALL CHARGES BY THE UTILITY COMPANY SHALL BE PAID BY THE OWNER.
2. ALL ELBOWS IN CONDUITS 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 ELECTRIC CODE.

A. CONDUIT & BOXES:

1. ALL CONDUIT SHALL BE NONMETALLIC ELECTRIC GRADE.
2. JUNCTION AND PULL BOXES SHALL BE FURNISHED AND INSTALLED AS SHOWN OR WHERE REQUIRED TO FACILITATE PULLING OF WIRES OR CABLES, SUCH BOXES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. GASKETED COVER PLATES 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. BUILDING WIRE, UNLESS OTHERWISE INDICATED, SHALL BE 600 VOLT, TYPE THWN INSULATION FOR INTERIOR AND EXTERIOR USE. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY. NO ROMEX OR AC (BX) CABLE WILL BE ALLOWED ON THE PROJECT.
2. NO WIRE SMALLER THAN NO. TWELVE (12) AWG SHALL BE USED UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM TERMINAL BOARD TO POINT OF FINAL CONNECTION, AND NO SPLICE SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. ALL CONDUCTORS SHALL BE OF THE SIZES AS INDICATED. ALL WIRES NO. EIGHT (8) AWG AND LARGER SHALL BE STRANDED. THE CONTRACTOR SHALL MAKE WIRING CONNECTIONS OF ALL ELECTRICAL EQUIPMENT REQUIRING ELECTRICAL SERVICE. WIRES AND CABLES SHALL BE AS MANUFACTURED BY PIRELLI, ROYAL, AND TRIANGLE OR EQUIVALENT.
3. ALL WIRING SHALL BE COLOR CODED. MATCH EXISTING SYSTEM COLOR CODING 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. DISCONNECTS:

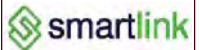
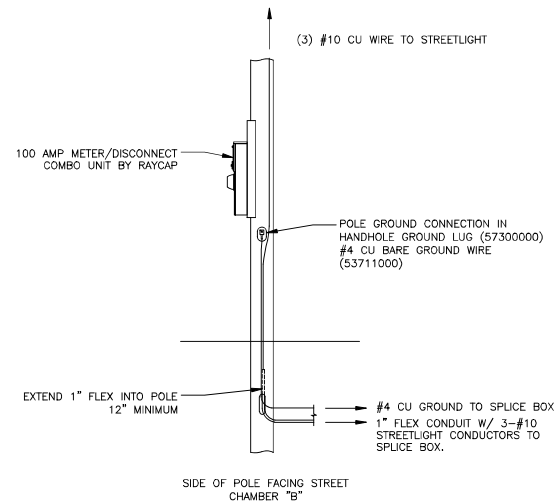
1. PROVIDE GROUND FROM ALL RACEWAYS, DEVICES, AND UTILIZATION EQUIPMENT PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AS HEREINAFTER SPECIFIED. ALL GROUNDING AND BONDING CONNECTIONS SHALL BE LOSSLESS.
2. PROVIDE INSULATED GROUNDING CONDUCTORS FOR FEEDER AND BRANCH CIRCUIT WIRING AS CALLED FOR ON THE PLANS. PROVIDE GROUNDING BLOCKS, TERMINALS ETC. FOR CONNECTION OF GROUND WIRE IN ALL DISTRIBUTION EQUIPMENT.



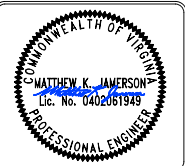


1. PROPOSED UTILITY COMPANY 200 AMP METER / 100 AMP DISCONNECT COMBO MOUNTED ON UTILITY POLE BELOW RHH CABINET. NEW METER GLOBE PROVIDED AND INSTALLED BY UTILITY COMPANY. PROVIDE PHENOLIC NAMEPLATE READING "AT&T WIRELESS".
2. EXTEND 2" SCH. 40 PVC CONDUIT FROM NEW ELECTRIC VAULT TO NEW POLE (APPROX. 10' FOR ELECTRIC)
3. EXTEND SIX (6) PAIR FIBER FROM PROPOSED OMNI-TAP TO SERVE NOKIA ANTENNA/RADIO UNITS MOUNTED ON UTILITY POLE.
4. PROPOSED LOCATION OF REMOTE RADIO HEAD MOUNTED ON EQUIPMENT BRACKET. REFER TO STRUCTURAL FOR DETAILS.
5. AT&T WIRELESS PROVIDED AND CONTRACTOR INSTALLED ANTENNA MOUNTED ON TOP OF UTILITY POLE.
6. ALL EQUIPMENT / CONDUITS MOUNTED ON POLE SHALL BE PAINT TO MATCH EXISTING POLE CONDITIONS. COORDINATE FINAL PAINT COLOR WITH AT&T WIRELESS REPRESENTATIVE IN THE FIELD.
7. EXTEND COAX CABLES FROM BOTTOM OF REMOTE RADIO HEAD TO ANTENNA MOUNTED ON TOP OF UTILITY POLE. COORDINATE FINAL COAX SIZE WITH AT&T REPRESENTATIVE.
8. AT&T WIRELESS PROVIDED AND CONTRACTOR INSTALLED UTILITY POLE TOP ANTENNA MOUNT.
9. EXTEND 1/2" B18 AWG - #12 GROUND - 3/4" GREY PVC CONDUIT FROM PANEL / EACH 15AMP BREAKER (TYPE OF 2) VERTICALLY UP UTILITY POLE TO SERVE EACH NOKIA ANTENNA / RADIO UNIT MOUNTED ON UTILITY POLE (TYPE OF 2). REFER TO PANEL SCHEDULE, SHEET C-5, FOR ADDITIONAL INFORMATION.



[illegible]

RELEASED BY	DATE
MATTHEW JAMERSON	10/07/21



UNAUTHORIZED ALTERATION OR ADDITIONS TO A PLAN  
BEARING THE SEAL OF A LICENSED ENGINEER OR LAND  
SURVEYOR IS A VIOLATION OF LOCAL LAW

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA. LICENSE NO. 0402061949 EXP. 03/12/2022

1 2 3 4

ORIGINAL SIZE IN INCHES

## SITE INFORMATION

AT&amp;T NEW CRAN BUILD

## SITE ADDRESS

CRAN\_RWSH\_ALEXA\_063B  
1011 NORTH WASHINGTONS  
ST.  
ALEXANDRIA, VA 22314

SHEET TITLE

**ELECTRICAL  
DETAILS  
CONT.**

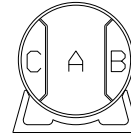
SHEET NUMBER

**E-4**

DOMINION OWNED MULTI- USE ALUMINUM STREETLIGHT POLE  
FOR THIRD PARTY ANTENNAS

GENERAL NOTES:

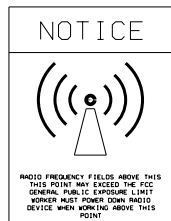
1. THE POLE HAS THREE INTERNAL CHAMBERS.
  - CHAMBER "A" IS FOR WIRELESS PROVIDER'S CONDUCTORS (COMMUNICATION AND POWER).
  - CHAMBER "B" IS FOR STREETLIGHT CONDUCTORS.
  - CHAMBER "C" IS FOR STREETLIGHT CONDUCTORS TO SECOND STREETLIGHT IF NECESSARY.
2. THE STANDARD SETTING DEPTH IS 8 FEET DEEP.
  - USE SELECT BACKFILL (\*57 STONE) INSTALLED IN 24" AUGER HOLE.
  - BACKFILL TO BE COMPACTED IN 6" LAYERS.
3. FOR SOFT SOILS, THE POLE MAY BE INSTALLED IN A PIPE PILE.
  - THE STANDARD PIPE PILE IS 30 INCHES IN DIAMETER AND 15 FEET LONG.
  - THE PIPE PILE IS TO BE VIBRATED INTO THE GROUND.
  - THE TOP OF THE PIPE PILE TO BE 6" BELOW GRADE TO ALLOW LANDSCAPING (GRASS).
4. ALL POWER CONDUCTORS TO ORIGINATE FROM A DIVIDED SPLICE BOX ADJACENT TO THE POLE.
  - COMPANY OWNED CONDUCTORS TO TERMINATE IN SIDE MARKED "DOMINION".
  - DOMINION COVER HAS PENTA HEAD BOLTS.
  - WIRELESS PROVIDER'S POWER CONDUCTORS TO TERMINATE IN SIDE MARKED "PVT ELECTRIC".
  - PVT ELECTRIC COVER HAS STANDARD 9/16" HEX HEAD BOLTS.
  - DOMINION TO PUSH CONDUCTORS FROM PRIVATE SIDE INTO DOMINION SIDE AND MAKE CONNECTIONS.
  - SPLICE BOX TO BE A MINIMUM OF 3 FEET FROM AUGER HOLE.
5. THE METER BASE / DISCONNECT COMBO UNIT PROVIDES FOR 100 AMP SERVICE.
  - POLE INCLUDES A BRACKET 5' 7" FROM CENTER TO GROUNDLINE FOR MOUNTING THE RAYCAP METERBASE / LOAD CENTER UNIT.
  - LINE SIDE CONDUCTORS ENTER REAR KNOCKOUT OF LOWER COMPARTMENT. (\*6 AWG - 4 / Ø).
  - LOAD SIDE CONDUCTORS ENTER REAR KNOCKOUTS OF UPPER COMPARTMENT.
6. MAXIMUM 20 FOOT ALUMINUM ELLIPTICAL BRACKET
  - STREETLIGHT BRACKETS ARE CLAMPED TO THE POLE.
  - DOUBLE BRACKETS MAY BE MOUNTED BACK TO BACK.
7. STREETLIGHT CONDUCTOR TO BE FUSED IN HAND HOLE WITH INLINE FUSE.
  - USE SUBMERSIBLE STREETLIGHT FUSE KIT 66265000.
8. INSTALL FULL GRID ADDRESS 4 FEET ABOVE GRADE FACING THE STREET.
  - POLE SHALL BE IDENTIFIED BY APPLYING ADHESIVE STENCILING DIRECTLY TO POLE AFTER CLEANING THE AREA WITH A DEGREASER.
9. SERVICE TO METERBASE REQUIRES SEPARATE SECONDARY FROM TRANSFORMER TO THE SPLICE BOX.
  - ANTENNA SERVICE REQUIRES 120 / 240 VOLTS (OR 120 / 208 VOLTS).
10. TO ELIMINATE RF EXPOSURE, POWER TO THE ANTENNA MUST BE TURNED OFF PRIOR TO WORKING ON THE STREETLIGHT.
  - THE COMPANY MUST HAVE ACCESS TO THE DISCONNECT AT ALL TIMES. IF THE DISCONNECT MUST BE LOCKED, THE LOCK MUST BE AN EXPENDABLE TWIST OFF TYPE LOCK.
11. ALL GROUNDED CONDUCTORS TO BE BONDED TOGETHER.
12. MAXIMUM GROUNDLINE MOMENT OF 50 FOOT POLE IS 51,612 FT. LBS.
  - MAXIMUM SHEAR IS 1975 LBS.



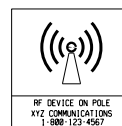
DOMINION OWNED ALUMINUM STREETLIGHT POLE  
FOR THIRD PARTY ANTENNAS

REQUIREMENTS FOR ANTENNA ATTACHMENTS

1. WIRELESS PROVIDER TO SUBMIT EQUIPMENT SPECIFICATIONS FOR MANUFACTURER'S APPROVAL.
  2. RF HAZARD ANALYSIS TO BE SUBMITTED BY QUALIFIED ENGINEER.
  3. RF NOTICE SIGN TO BE INSTALLED AT LIMITS FOR GENERAL POPULATION.
    - RF NOTICE SIGN TO BE ON BOTH SIDES OF THE POLE.
  4. BATTERY BACK-UP FOR ANTENNA SERVICE IS NOT PERMITTED.
    - ANTENNA MUST BE ABLE TO BE DE-ENERGIZED BY REMOVING THE METER AND/OR OPENING THE DISCONNECT.
  5. AN RF NOTICE SIGN MUST BE INSTALLED ON THE LOAD CENTER WHICH INCLUDES THE WIRELESS PROVIDER'S NAME AND 24 HOUR CONTACT PHONE NUMBER.
  6. EQUIPMENT CASES CANNOT UNDULY OBSTRUCT A WALKWAY.
    - OTHERWISE 9 FEET OF GROUND CLEARANCE IS REQUIRED OVER PEDESTRIAN WALKWAYS.
  7. UNLESS SPECIFIED OTHERWISE, ALL EQUIPMENT TO BE BANDED TO THE POLE.
  8. THE WIRELESS PROVIDER TO DETERMINE THE NEED FOR PIPE PILES BASE ON SOIL CONDITIONS AND EQUIPMENT TO BE ATTACHED.
  9. THE RAYCAP METERBASE / DISCONNECT COMBO UNIT TO BE OWNED BY THE WIRELESS PROVIDER.
- REFERENCE PAGE 5.

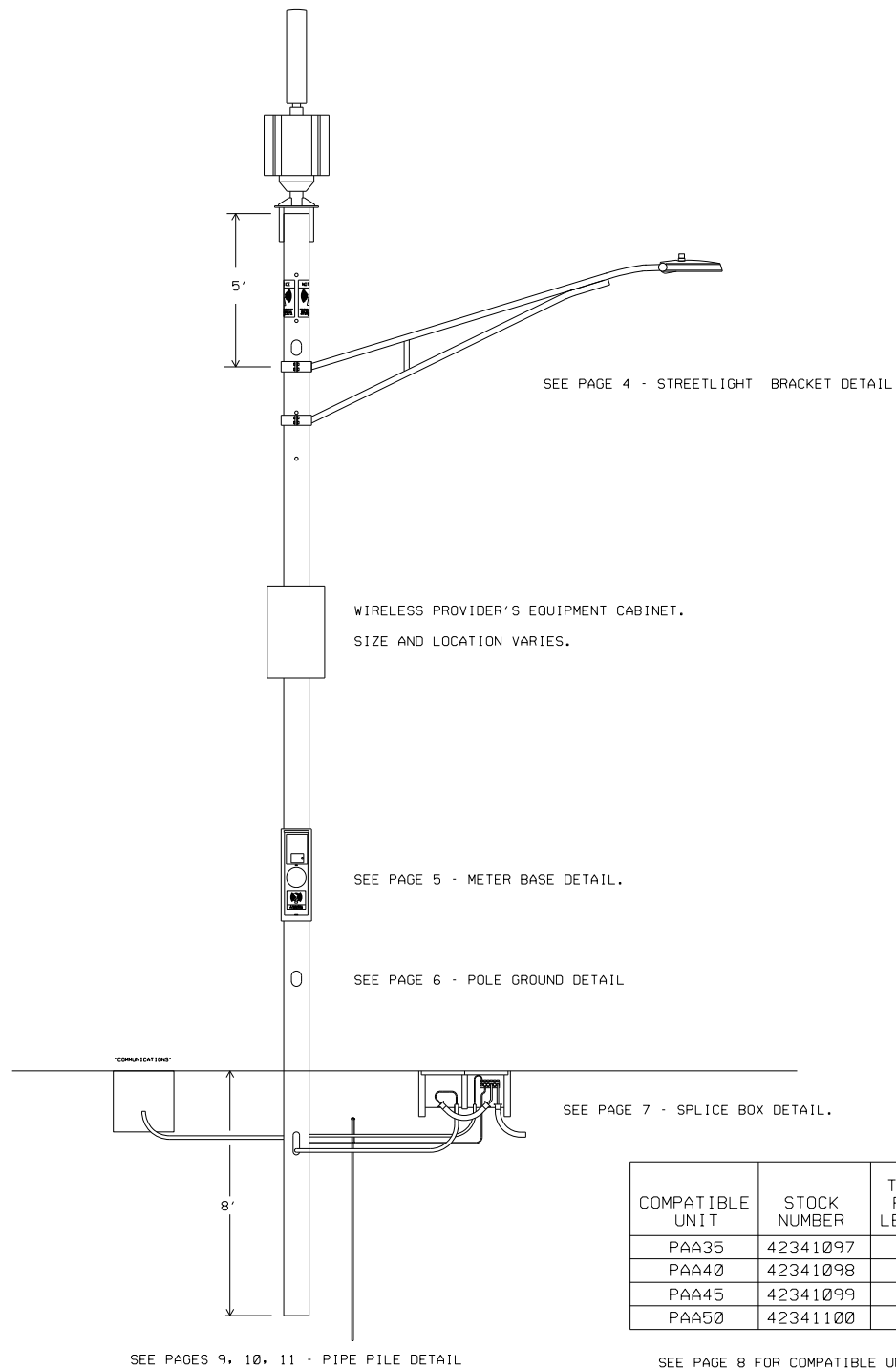


RF NOTICE SIGN INSTALLED  
AT GENERAL POPULATION LIMITS



IDENTIFICATION LABEL  
INSTALLED ON DISCONNECT

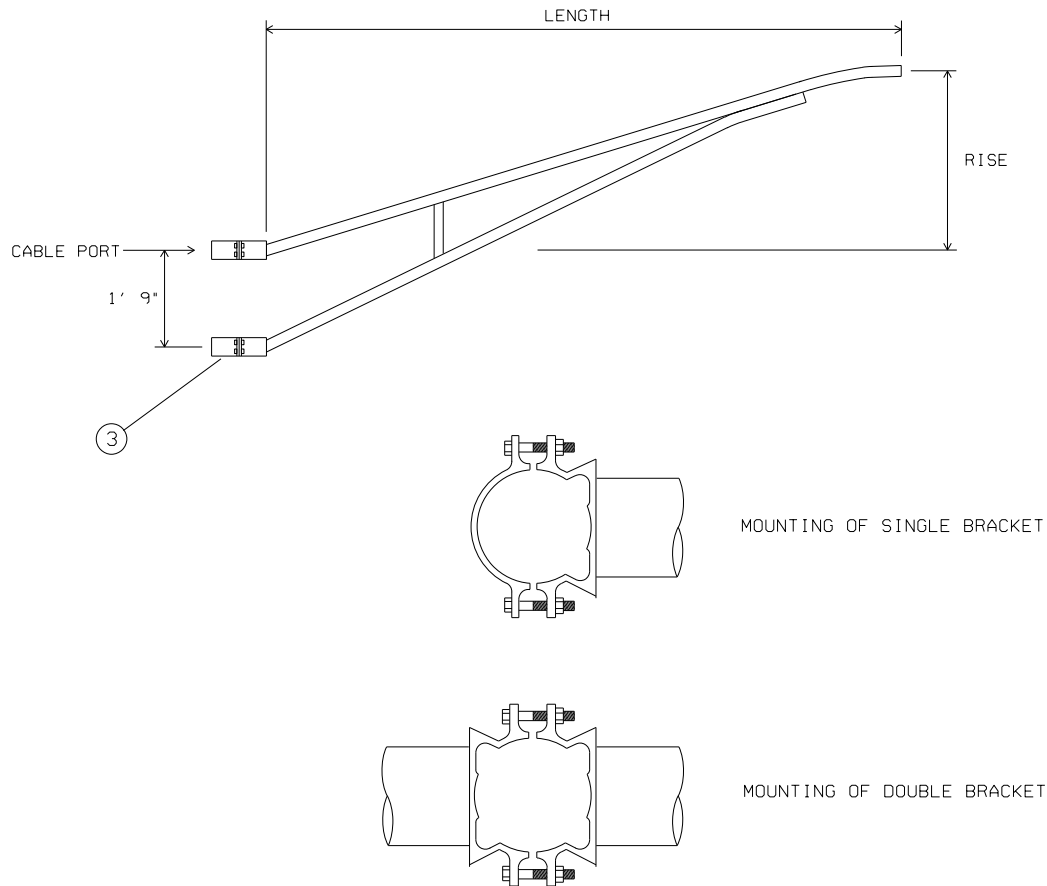
DOMINION OWNED ALUMINUM STREETLIGHT POLE  
FOR THIRD PARTY ANTENNAS





DOMINION OWNED ALUMINUM STREETLIGHT POLE  
FOR THIRD PARTY ANTENNAS

STREETLIGHT BRACKET DETAIL



INSTRUCTIONS

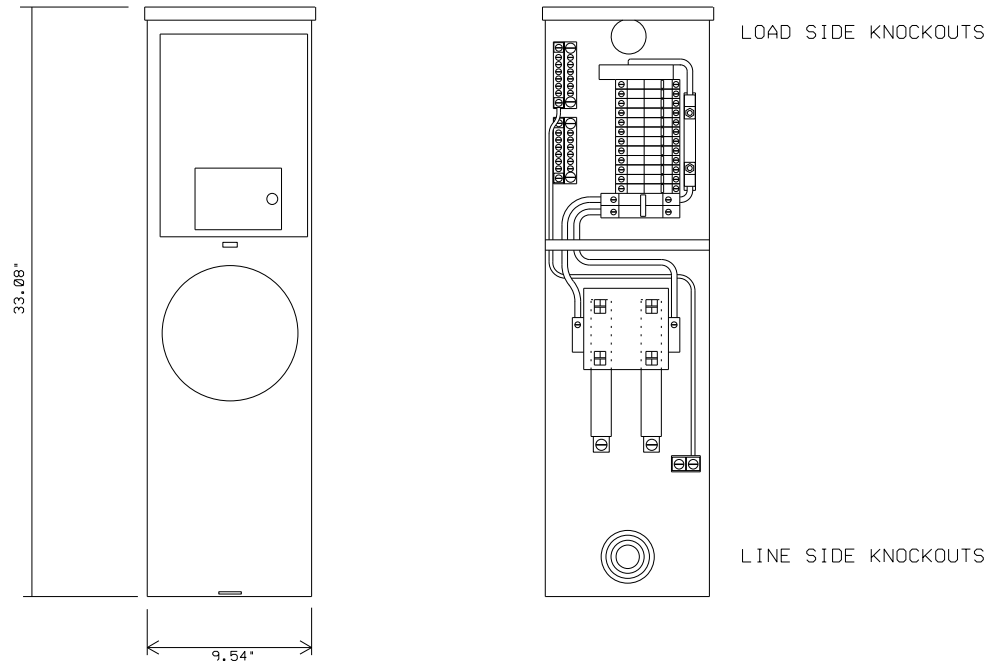
1. PLACE THE FRONT BAND/TRUSS ARM ONTO THE POLE, LINING UP THE CENTER OF THE UPPER ARM MEMBER WITH THE WIRE HOLE ON THE POLE.
2. WITH THE ARM IN PLACE, PLACE THE BACK BANDS ON THE OPPOSITE SIDE OF THE POLE AND LINE THEM UP WITH THE FRONT BANDS.
3. ONCE THE BOLT HOLES ON THE BANDS ARE LINED UP, INSERT THE BOLTS. USE THE INCLUDED WASHERS.
4. WITH THE BOLT RUNNING THROUGH BOTH BANDS, FASTEN THEM TOGETHER USING THE SUPPLIED HEX NUTS. USE THE INCLUDED WASHERS.

COMPATIBLE UNIT	STOCK NO.	LENGTH	RISE	EPA	WEIGHT
BKTTB6FT	42410590	5' 6"	3' 3"	2.08 SQ.FT.	15.8 LBS.
BKTTB8FT	42341101	7' 6"	3' 3"	2.48 SQ.FT.	20.4 LBS.
BKTTB10FT	42341102	9' 6"	3' 3"	2.74 SQ.FT.	25.5 LBS.
BKTTB12FT	42341103	11' 6"	3' 3"	2.98 SQ.FT.	31.9 LBS.
BKTTB16FT	42341104	14' 6"	3' 3"	3.47 SQ.FT.	43.4 LBS.
BKTTB20FT	42341052	20'	2' 8"	4.34 SQ.FT.	62.3 LBS.

4 OF 11

DOMINION OWNED ALUMINUM STREETLIGHT POLE  
FOR THIRD PARTY ANTENNAS

METER BASE DETAIL



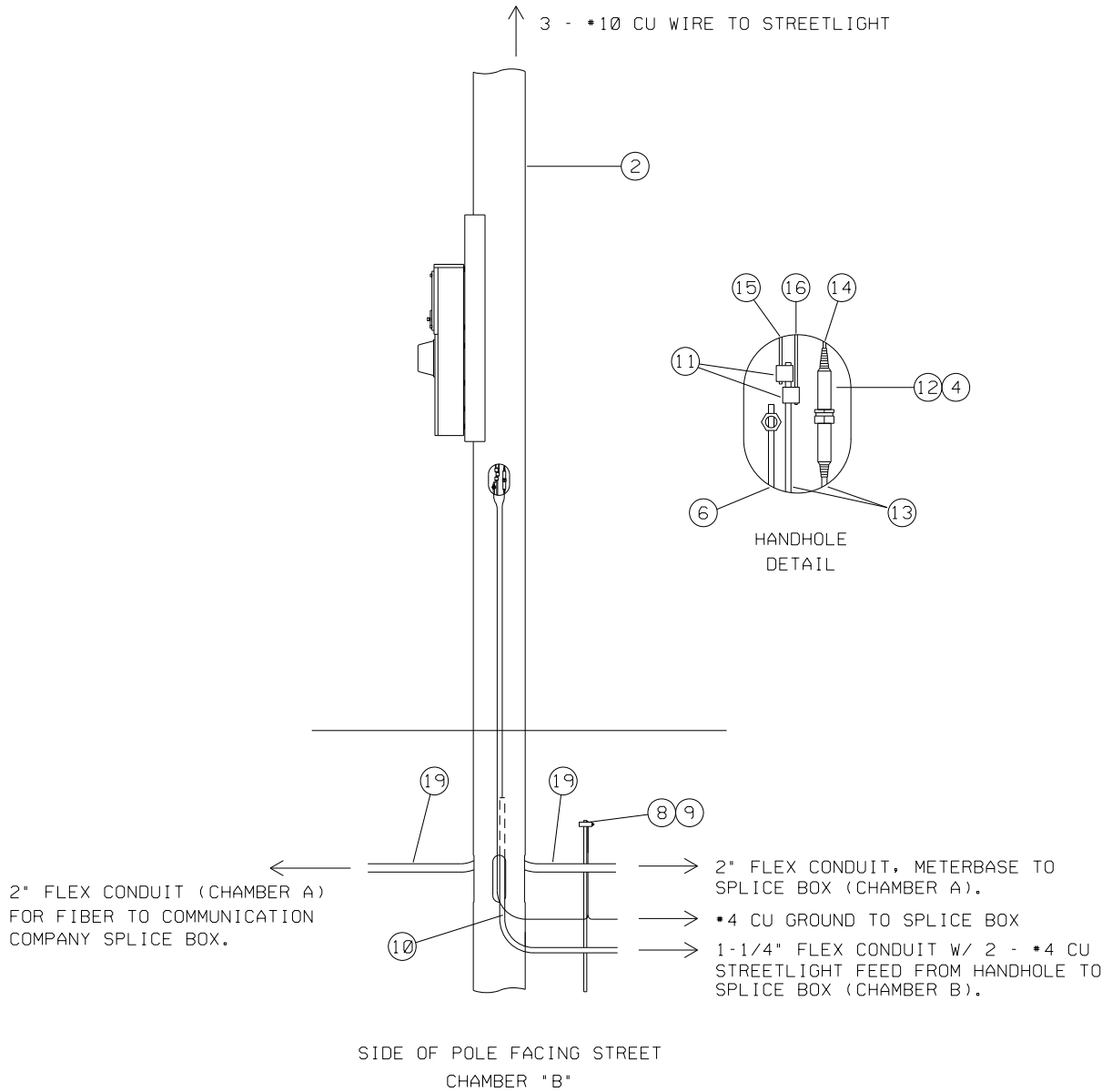
100 AMP METER / DISCONNECT COMBO UNIT  
BY RAYCAP  
CATALOG NO. RMD-E2C-Z12MS-21ND

NOTES:

1. LINE SIDE CONDUCTORS TO ENTER BOTTOM KNOCKOUT IN REAR (\*6 AWG - 4/0).
2. LOAD SIDE CONDUCTORS TO ENTER TOP KNOCKOUT IN REAR.
3. 120 / 208 VOLT SERVICE REQUIRES 5TH LUG.
4. BREAKER INTERRUPTING RATING IS 10,000 AMPS SYMMETRICAL.
5. UNIT ATTACHED TO MOUNTING PLATE WITH EIGHT 5/16" 18NC STAINLESS STEEL SCREWS.  
- SCREWS ARE PROVIDED WITH THE POLE.

DOMINION OWNED ALUMINUM STREETLIGHT POLE  
FOR THIRD PARTY ANTENNAS

POLE GROUND DETAIL

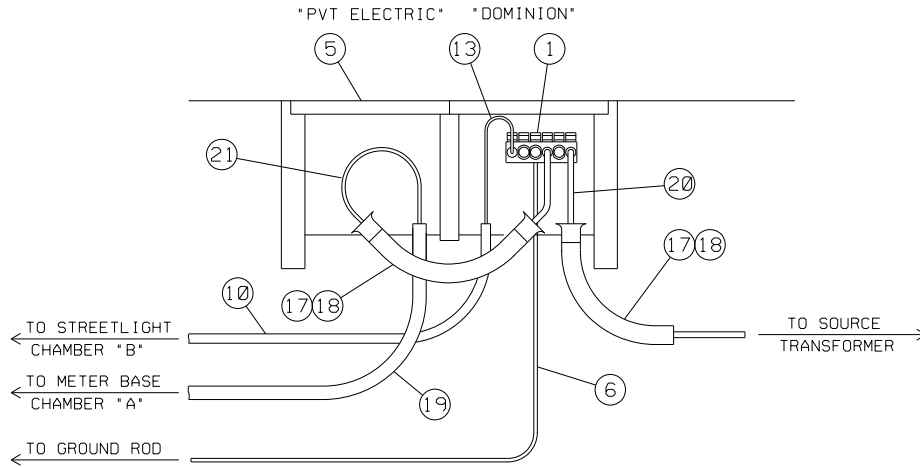


NOTES:

- 1) GROUND ROD TO BE INSTALLED IN UNDISTURBED EARTH.
- 2) THIS POLE CAN SERVE TWO STREETLIGHT BRACKETS ON OPPOSITE SIDES.  
SERVE SECOND STREETLIGHT WITH SEPARATE CONDUCTORS IN CHAMBER "C".
- 3) EXTEND FLEX CONDUIT INTO POLE MINIMUM 12".
- 4) TWO 2" FLEXIBLE CONDUIT TO BE INSTALLED INTO CHAMBER "A" AT TIME OF BACKFILL.

DOMINION OWNED ALUMINUM STREETLIGHT POLE  
FOR THIRD PARTY ANTENNAS

SPLICE BOX DETAIL



NOT ALL CONDUCTORS SHOWN FOR CLARITY

NOTES:

- 1) COMPANY CONDUCTORS IN SIDE MARKED "DOMINION".
- 2) CUSTOMER CONDUCTORS IN SIDE MARKED "PVT ELECTRIC".
- 3) SPLICE BOX NOT CLOSER THAN 3' FROM POLE AUGER HOLE.
- 4) STREETLIGHT CONDUCTORS AND CONDUIT TO ENTER POLE CHAMBER "B".  
- EXTEND 1-1/4" LFNC CONDUIT AT LEAST 12" INTO POLE CHAMBER.
- 5) CUSTOMER CONDUCTORS AND CONDUIT TO ENTER POLE CHAMBER "A".
- 6) CUSTOMER TO LEAVE AT LEAST 8' OF CONDUCTOR FOR TERMINATING IN SPLICE BOX.
- 7) CU SBOX36D IS MATERIAL ONLY.
- 8) IF NEEDED, SERVE SECOND STREETLIGHT WITH SEPARATE CONDUCTORS IN CHAMBER "C".



DOMINION OWNED ALUMINUM STREETLIGHT POLE  
FOR THIRD PARTY ANTENNAS

COMPATIBLE UNITS

KEY	STOCK NO.	DESCRIPTION	POLE COMPATIBLE UNITS			
			PAA35	PAA40	PAA45	PAA50
2	42341097	ALUMINUM MULTI-USE POLE, 36'	1	-	-	-
2	42341098	ALUMINUM MULTI-USE POLE, 41'	-	1	-	-
2	42341099	ALUMINUM MULTI-USE POLE, 46'	-	-	1	-
2	42341100	ALUMINUM MULTI-USE POLE, 50'	-	-	-	1
6	53711000	*4 COPPER, BARE	10'	10'	10'	10'

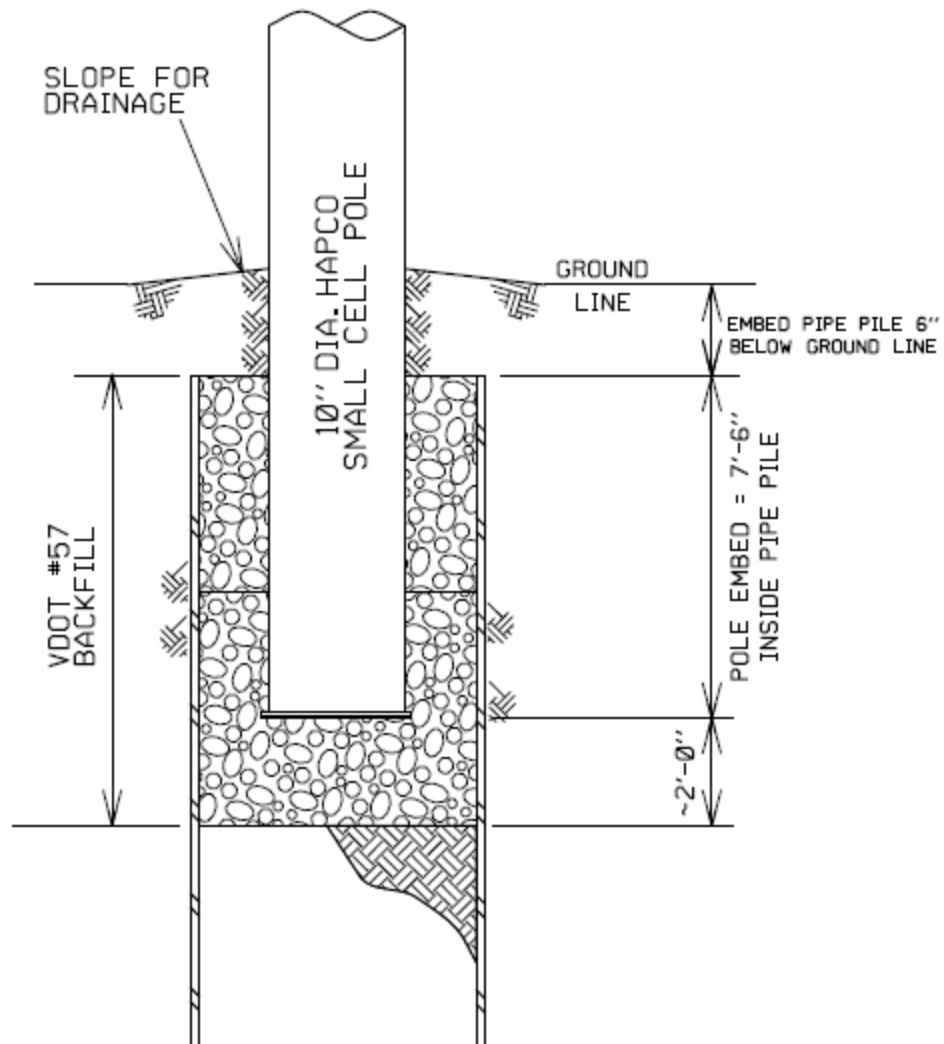
KEY	STOCK NO.	DESCRIPTION	STREETLIGHT BRACKET COMPATIBLE UNITS					
			BKTTB6FT	BKTTB8FT	BKTTB10FT	BKTTB12FT	BKTTB16FT	BKTTB20FT
3	42410590	6' MAST ARM BRACKET, BANDED	1	-	-	-	-	-
3	42341101	8' MAST ARM BRACKET, BANDED	-	1	-	-	-	-
3	42341102	10' MAST ARM BRACKET, BANDED	-	-	1	-	-	-
3	42341103	12' MAST ARM BRACKET, BANDED	-	-	-	1	-	-
3	42341104	16' MAST ARM BRACKET, BANDED	-	-	-	-	1	-
3	42341052	20' MAST ARM BRACKET, BANDED	-	-	-	-	-	1
4	42343183	30 AMP FUSE, INLINE	1	1	1	1	1	1
10	65122500	1-1/4" FLEXIBLE CONDUIT	10'	10'	10'	10'	10'	10'
12	66265000	INLINE FUSE KIT, SUBMERSIBLE	1	1	1	1	1	1
14	70200500	*10 COPPER, BLACK	60'	60'	60'	60'	60'	60'
15	70200600	*10 COPPER, WHITE	60'	60'	60'	60'	60'	60'
16	70200700	*10 COPPER, GREEN	60'	60'	60'	60'	60'	60'

KEY	STOCK NO.	DESCRIPTION	SPLICE BOX COMPATIBLE UNITS			
			SB0X36D	SB0X36DF	GROD6CUUG	GRODCUUGF
1	42238502	CONNECTOR, *6 - 500 AL/CU, SUBMERSIBLE	-	3	-	-
5	42350224	SPLICE BOX, W/ DIVIDER, 36" X 24" X 18"	1	-	-	-
6	53711000	*4 COPPER, BARE	-	10'	-	-
8	57814000	GROUND ROD CLAMP	-	-	-	1
9	57878500	5/8" COPPER CLAD GROUND ROD, 6 FOOT	-	-	1	-
11	66141000	"FIGURE 6" CONNECTOR *10 - *4	-	2	-	-
13	67507400	*4 COPPER, 2 CONDUCTORS	-	20'	-	-
17	71009100	BELL END, 2"	3	-	-	-
18	71291500	90 DEG. ELBOW, 2"	2	-	-	-
19	71150000	2" FLEXIBLE CONDUIT	-	50'	-	-
20	SPECIFY	SECONDARY, 3 CONDUCTOR	-	-	-	-
21	NA	CUSTOMER OWNED CONDUCTOR	-	-	-	-

MACRO UNIT

KEY	STOCK NO.	DESCRIPTION	PIPEPILE30	SB0XMUP	
				SB0X36D	SB0X36DF
NA	42407588	PIPE PILE, 30" DIAMETER X 16' LENGTH	1	1	1


GROD6CUUG	2
GRODCUUGF	1



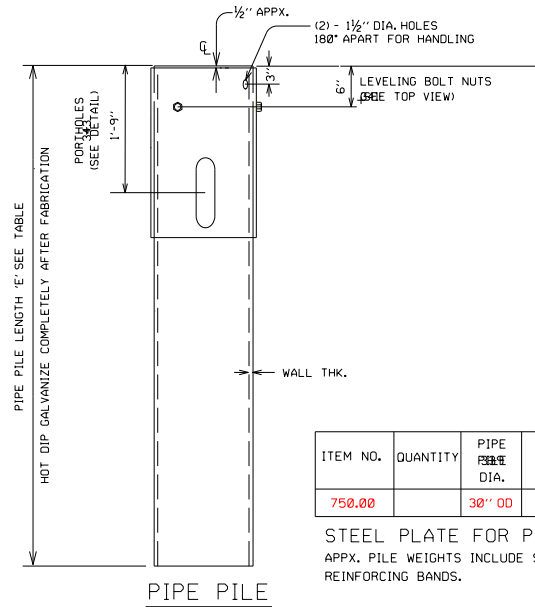
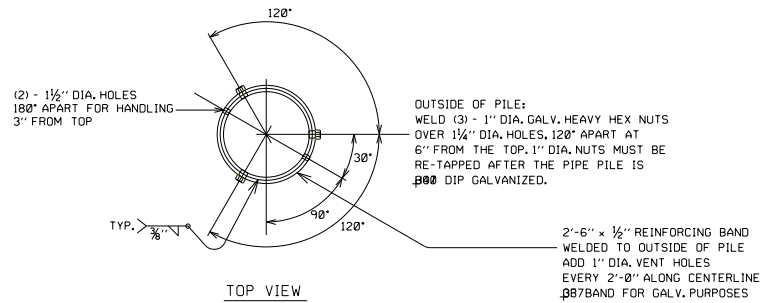
### POLE INSTALLATION

#### GENERAL NOTES:

1. CLEAN OUT PIPE PILE TO REQ'D DEPTH: 7'-6" + 2'-0" MIN.
2. ADD SPECIFIED COMPACTED STONE BACKFILL - MINIMUM OF 2'-0" BELOW THE BASE PLATE OF THE POLE.
3. BACKFILL MATERIAL SHALL BE PLACED IN 4 INCH LIFTS. EACH LAYER SHALL BE COMPACTED USING MECHANICAL OR PNEUMATIC TAMPERS. A MINIMUM OF 3 PASSES SHALL BE MADE OVER EACH LAYER. ADDITIONAL PASSES ARE TO BE MADE IF DISPLACEMENT OF THE BACKFILL IS STILL EVIDENT ON THE THIRD PASS. ROD EXTENSIONS SHALL BE ADDED TO THE TAMPER, AS REQUIRED, IN ORDER FOR THE OPERATOR TO MAINTAIN DOWNWARD PRESSURE ON THE UNIT AT ALL TIMES.

Transmission Construction		POLE INSTALLATION DETAILS - PIPE PILE HAPCO SMALL CELL					
	Dominion 10900 Nuckols Road Glen Allen, VA 23060		DRAWN	CHECKED	APPROVED	DATE	DRAWING NO.
		ORIGINAL	CNH			11/6/2020	
		REVISION	CNH			3/8/2021	CAD NO.

TRANSMISSIONS Dept. TO CUSTOMER (HAPCO) EMBED FOR TOWER/POLE PILE IN PIPE PILE

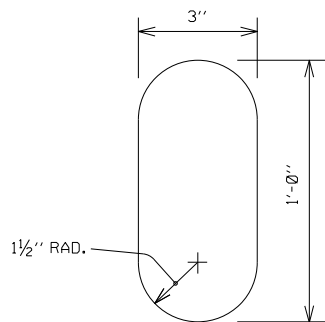
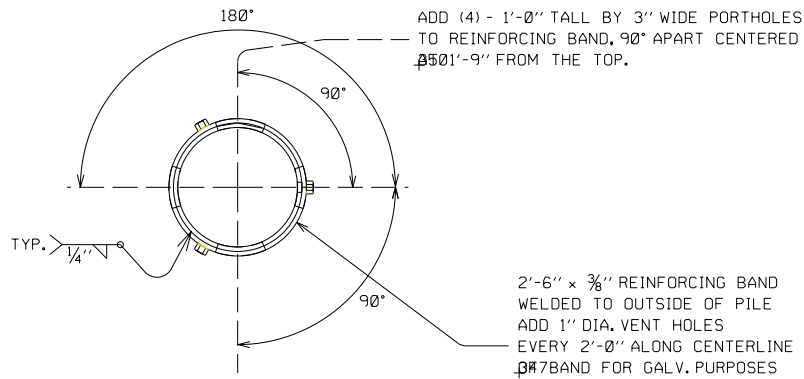


ITEM NO.	QUANTITY	PIPE DIA.	TOTAL LENGTH 'E'	WALL THK.	APPX. WT. (LBS) (EACH)
750.00		30" 00	16'-0"	3/8"	1,856

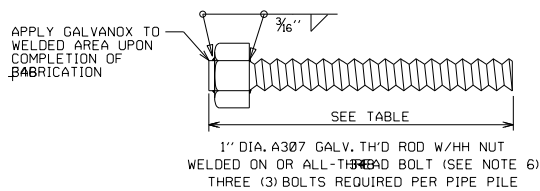
STEEL PLATE FOR PILE:  $F_y = 45$  KSI MIN.  
APPX. PILE WEIGHTS INCLUDE SUPPORT VANGS AND  
REINFORCING BANDS.

#### NOTES:

- STEEL PIPE PILE SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATION A-252 "WELDED AND SEAMLESS STEEL PIPE PILES". STEEL PLATE FOR PILE FABRICATION TO HAVE A MINIMUM  $F_y = 45$  KSI. CORROSION RESISTANT STEEL TYPES SUCH AS ASTM A242, A588, A871 ETC. ARE NOT TO BE USED.
- PILES MAY BE FABRICATED AS ROUND, 12-SIDED OR 16-SIDED SHAPES. DIAMETER REFERENCE FOR 12-SIDED AND 16-SIDED SHAPES IS TO BE MEASURED FROM FLAT TO FLAT.
- ALL WELDING TO BE IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.1. USE APPROPRIATE ELECTRODE FOR STEEL GRADE TYPES, (E70 MINIMUM). CIRCUMFERENTIAL AND LONGITUDINAL WELDS TO BE COMPLETE PENETRATION.
- PIPE PILE VENDOR SHALL SUPPLY THE THREE 1" DIA. HEAVY HEX GALVANIZED NUTS AND THREE 1" DIA. GALVANIZED LEVELING BOLTS AND ENSURE THESE NUTS AND BOLTS ARE COMPATIBLE WITH EACH OTHER. LEVELING BOLTS MAY BE FABRICATED OR AN ALL-THREAD BOLT WITH THE BOLT THREADS EXTENDING TO WITHIN 1/2" OF THE BOLT HEAD MAY BE USED. THIS HARDWARE SHALL BE HOT DIP GALVANIZED.
- AFTER FABRICATION, HOT DIP GALVANIZE THE PILE AS SPECIFIED PER ASTM A123. PROVIDE ADDITIONAL HOLES IF NEEDED FOR HANDLING DURING GALVANIZING.
- THE THREE 1" DIA. HEAVY HEX NUTS ON THE PILE MUST BE RE-TAPPED AFTER GALVANIZING THE PIPE PILE UNIT. PIPE PILE VENDOR IS RESPONSIBLE TO ENSURE THE LEVELING BOLTS CAN BE THREADED THROUGH EACH RE-TAPPED NUT AND WORKS PROPERLY PRIOR TO SHIPPING THE PILE TO DOMINION.
- THE 1" DIA. LEVELING BOLTS ARE TO BE SHIPPED LOOSE TO PREVENT DAMAGE DURING SHIPMENT.



PORTHOLE DETAIL



ITEM NO.	QUANTITY	LEVELING BOLT LENGTH
781.00		18"

VERIFY THAT LEVELING BOLTS WORK PROPERLY IN 1" DIA. HEAVY HEX BOLTS PRIOR TO SHIPPING.

PIPE PILE FABRICATION DETAIL  
HAPCO SMALL CELL

**From:** [Marina Novaes](#)  
**To:** [Lia Niebauer](#)  
**Subject:** FW: [EXTERNAL] Routing BAR #2022-00069 - 1011 North Washington Street, Alexandria VA  
**Date:** Wednesday, March 9, 2022 9:45:46 AM  
**Attachments:** [image001.png](#)

---

**From:** Alex Miller <alex.miller@smartlinkgroup.com>  
**Sent:** Tuesday, March 8, 2022 11:12 AM  
**To:** susan\_wong@nps.gov; steven\_kattula@nps.gov; susan\_hall@nps.gov  
**Cc:** Brian Taylor <brian.taylor@smartlinkgroup.com>; Marina Novaes <Marina.Novaes@alexandriava.gov>; Lia Niebauer <lia.niebauer@alexandriava.gov>  
**Subject:** RE: [EXTERNAL] Routing BAR #2022-00069 - 1011 North Washington Street, Alexandria VA

Good Morning Susan and Steven,

I've answered your concerns and questions below in red. I've attached the pole details that will be installed. These are the poles that Dominion is installing for all telecommunications installations. Please let me know if you'd like to set up a call to discuss or if you have any questions to my comments.

#### Susan Hall comments

- My perspective is that the addition of the new element is not a significant impact. The new equipment is similar in to other utility equipment (stop lights, cameras, etc.) in the area. If it is more than one pole, than I would be more concerned. **Only one pole will be installed.**
- The height of the light will be a number of feet higher, will the intensity of the light need to be increased, and would that effect night time lighting characteristics? (too much light) **I would need to contact Dominion regarding the intensity of the light.**
- The structural analysis has yet to be done. They might need to increase the footing for a taller pole – this might affect the area of disturbance for the sidewalk and potentially a need to redo the curb ramp. **Dominion takes the footing into account when reviewing our applications. If they thought there would be an issue with the disturbance of the sidewalk, curb ramp, ADA, etc. they would deny our application.**

#### Steven Kattula comments

- Regarding the new light being higher (aprox 6'-0), is this light height repeated down the street? In addition to Susan's comment above, will this height appear as an odd ball? Is it possible to adjust the position of the antenna equipment to mount the new light to account for this if so? **The height of the light we remain the same on the new pole as it is on the existing pole to keep in line with other poles located nearby.**
-



- Drawing C-2, it is unclear if the new pole will be tapered like the existing pole, or be one diameter straight up. Please confirm. If it is different, is there a structural limitation? **See attached specs of pole being installed by Dominion. These poles were specifically designed by Dominion to structurally hold the maximum weight of equipment the carriers would want to install.**
- The center of the pole is now 9'2" from the property line, where there is a brick wall/metal fence. The proposed pole center line is shown 4'-8". How much sidewalk clearance does this leave (may be a city question)? From a practical perspective, is this enough sidewalk clearance? Also, similar to question above, will this appear out of line with other light poles down the street? **For the most part Dominion would install the pole in the same exact location as the old pole to keep in line with the other poles. If that isn't the case it would be installed directly next to the existing pole still keeping in line with other poles on the street. As stated Dominion takes into account if there is a possibility of any clearance issues.**

Regards,



1362 Mellon Road, Suite 140  
Hanover, MD 21076

**Alex Miller**

**Program Manager**

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