

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

APPLICANT: AT&T Mobility

LOCATION: Old and Historic Alexandria District
Dominion Energy utility pole near 312 South Washington Street

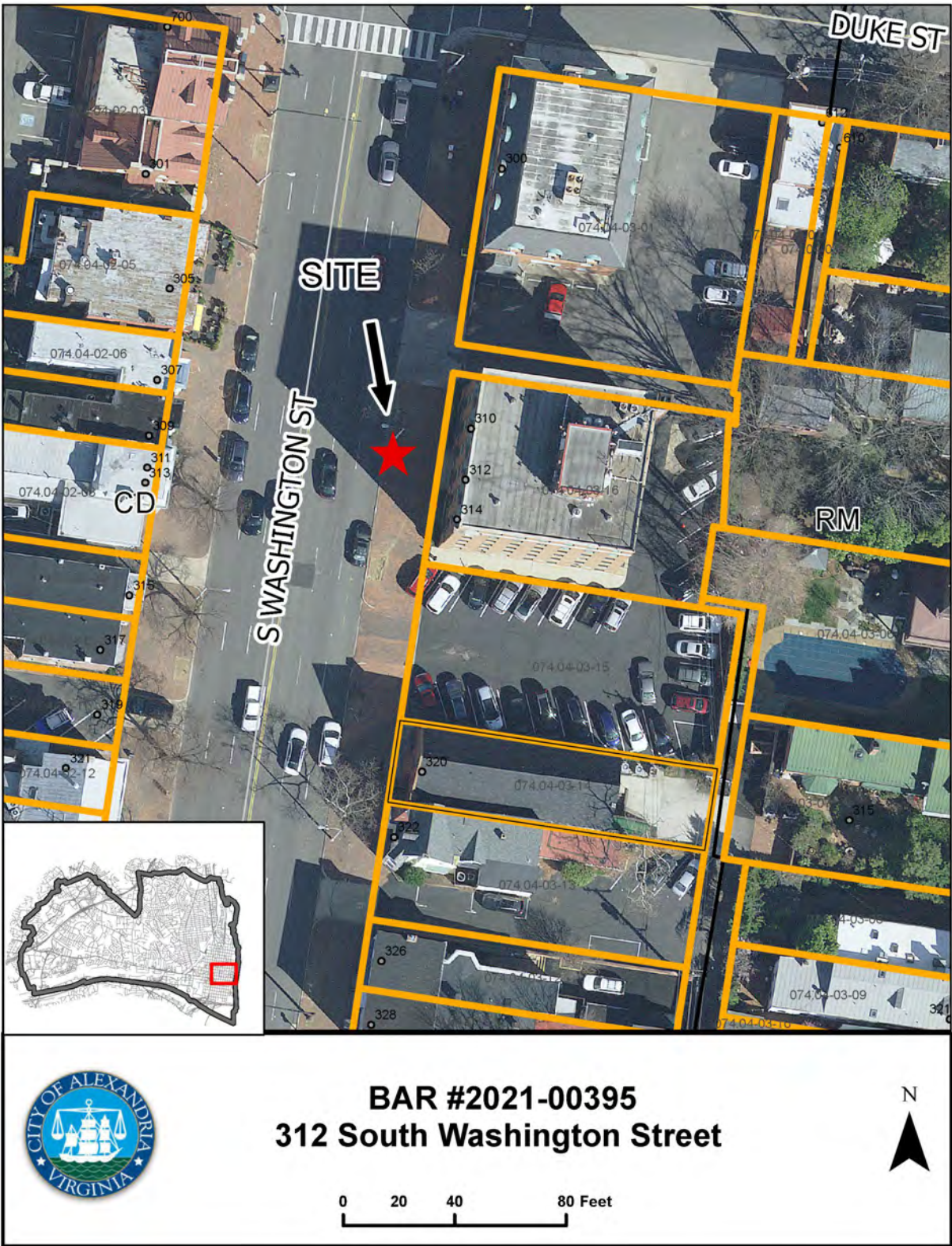
ZONE: CD/Commercial Downtown Zone

STAFF RECOMMENDATION

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

GENERAL NOTES TO THE APPLICANT

1. **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 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.



I. APPLICANT'S PROPOSAL

The applicant is requesting a Certificate of Appropriateness to replace the existing concrete street light pole in the right-of-way near the property at 312 South 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 25'-0" tall concrete street light pole with a new 28'-0" HAPCO aluminum street light pole.
- Install a AT&T 5G small cell antenna facility strap mounted at 23'-0" 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 middle of the 300 block of South Washington Street on the east side (Figure 1)

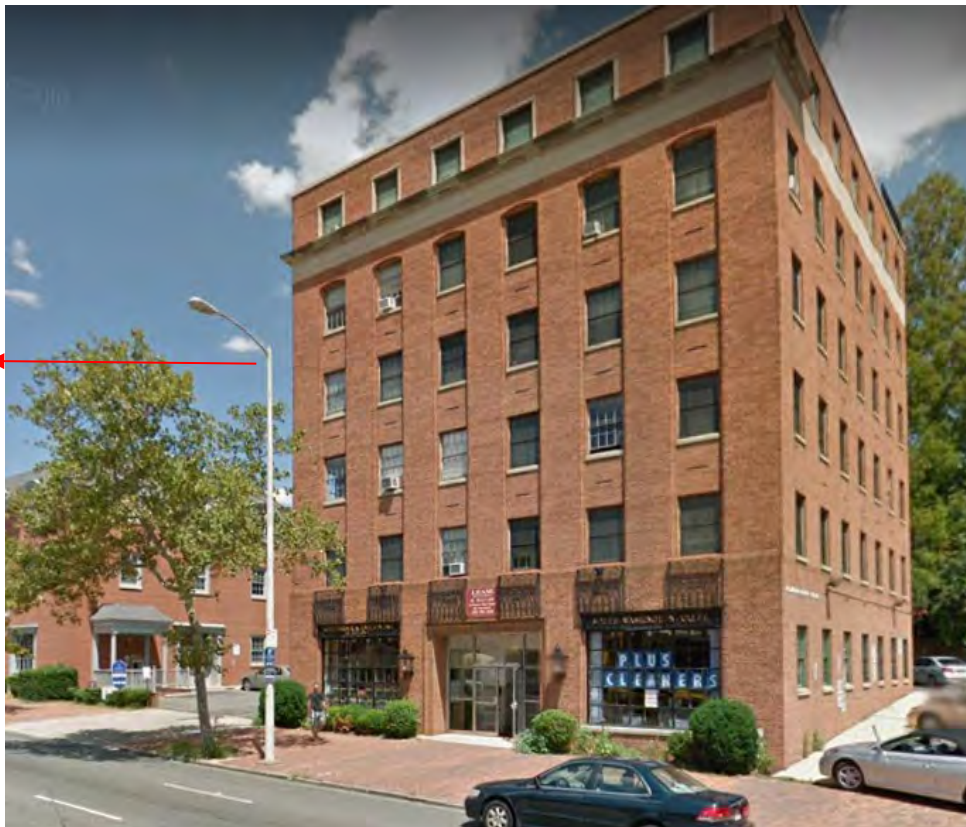


Figure 1 - Existing light pole

Subject pole to be replaced

II. HISTORY

The property at 312 South Washington Street is a six-story commercial building built in 1956. Two parking lots flank the building, one at the north and the other at the south. The Beulah Baptist Church, built in the 1800s is the first building following the parking lot to the south at approximately 90 feet from the subject pole. To the north, following the existing parking lot, a three-story commercial building built in 1964. There are four two-story townhouses built in the 1800s cross the street, approximately 100 feet away from the subject pole.

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).

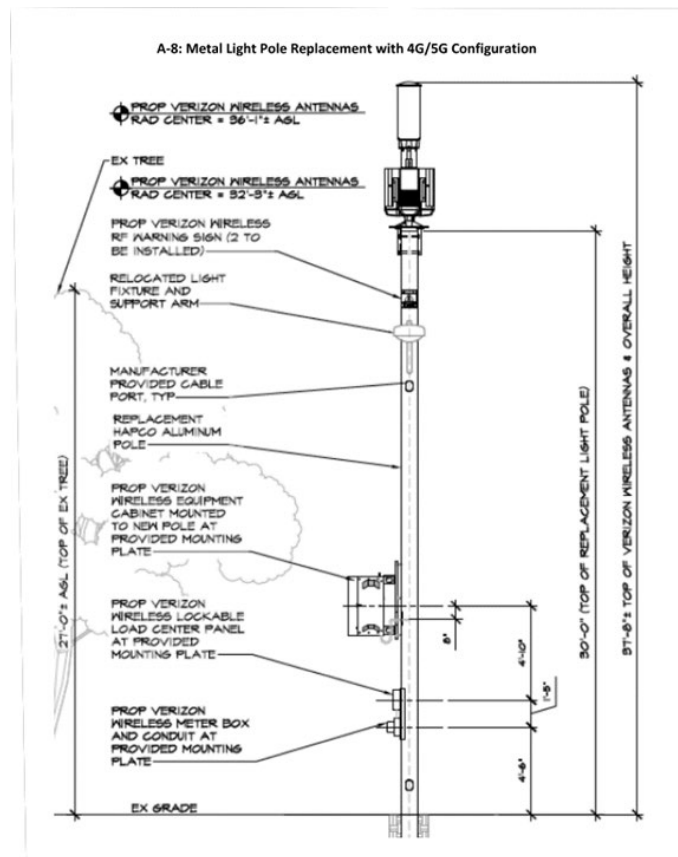


Figure 2 - Design A-8 approved by the City Council

The overall height of the new pole including the small cell facility is 34'-0". 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 28' feet and overall height is 34.00 There will be a base with concealed equipment that will measure 5' 6"

- 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)
- F-2 If the alley located at the rear of the parcel is to be used at any point of the construction process the following will be required:
For a Public Alley - The applicant shall contact T&ES, Construction Permitting & Inspections at (703) 746-4035 to discuss any permits and accommodation requirements that will be required.
For a Private Alley - The applicant must provide proof, in the form of an affidavit at a minimum, from owner of the alley granting permission of use. (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)

Alexandria Archaeology

- F-1 No archaeological oversight necessary.

V. ATTACHMENTS

- 1 – Application Materials*
2 – Supplemental Materials

ADDRESS OF PROJECT: 312 S Washington StDISTRICT: ☒ **Old & Historic Alexandria** ☐ **Parker – Gray** ☐ **100 Year Old Building**TAX MAP AND PARCEL: 074.04-03-20ZONING: CD**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: AT&T MobilityAddress: 7150 Standard DriveCity: Hanover State: VA Zip: 21076

Phone: _____ E-mail: _____

Authorized Agent *(if applicable):* ☐ **Attorney** ☐ **Architect** ☒ **Contractor**Name: 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 concrete 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.

Antennas

We will be installing both 4G and 5G antennas to the replacement pole.

Existing pole height and material.

All 3 of the existing poles are concrete. ALEXA_14 (4501 Ford Ave) has an existing height of 27' – ALEXA_021 (300 N Washington St) has an existing height of 30' – and ALEXA_045 (432 South Columbus St) has an existing height of 23'

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.*

- ☐ ^{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 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: 07/22/21

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	220 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

Date

Printed Name

Signature

EXISTING VIEW



PROPOSED AT&T CONCEALMENT ENCLOSURE W/ OMNI ANTENNA & RRH MOUNTED ON PROPOSED HAPCO STREET LIGHT POLE. CENTERLINE OF PROPOSED AT&T ANTENNA @ ELEVATION = 32'-9" AGL. PAINTED TO MATCH.

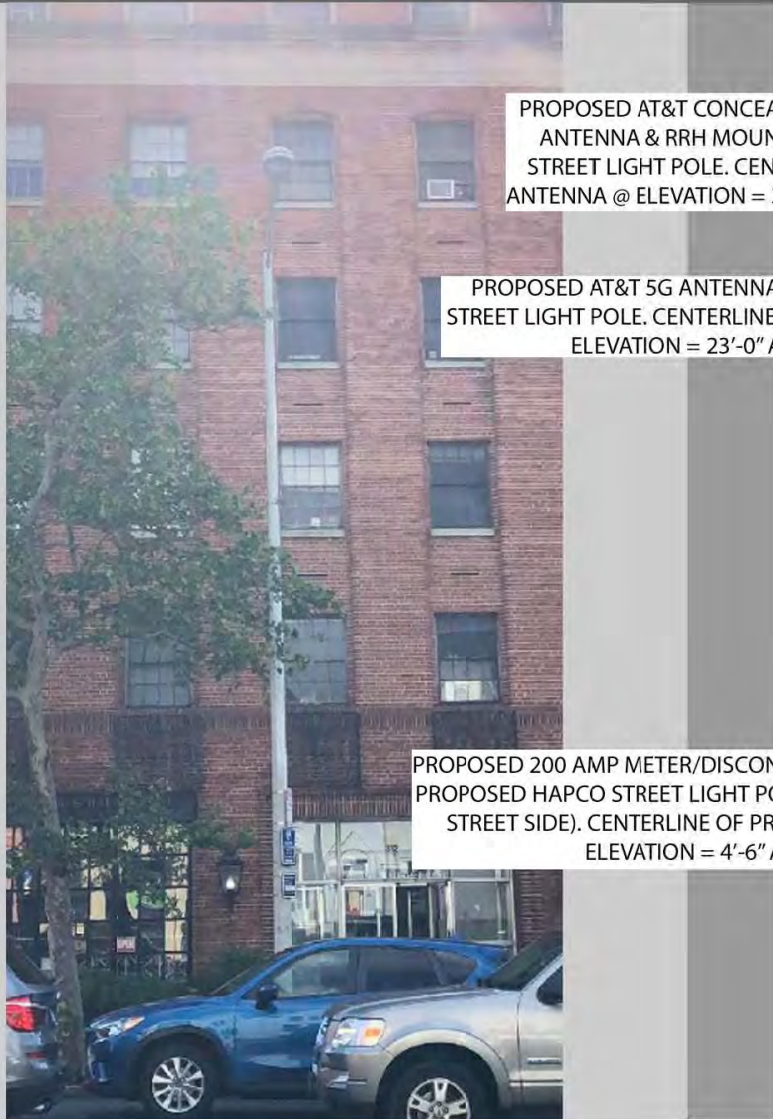
PROPOSED AT&T 5G ANTENNA MOUNTED TO PROPOSED HAPCO STREET LIGHT POLE. CENTERLINE OF PROPOSED AT&T 5G ANTENNA @ ELEVATION = 23'-0" AGL. PAINTED TO MATCH.

PROPOSED 200 AMP METER/DISCONNECT COMBO ENCLOSURE MOUNTED TO PROPOSED HAPCO STREET LIGHT POLE (METER SHALL NOT BE MOUNTED ON STREET SIDE). CENTERLINE OF PROPOSED AT&T METER/DISCONNECT @ ELEVATION = 4'-6" AGL. PAINTED TO MATCH

PROPOSED VIEW



EXISTING VIEW

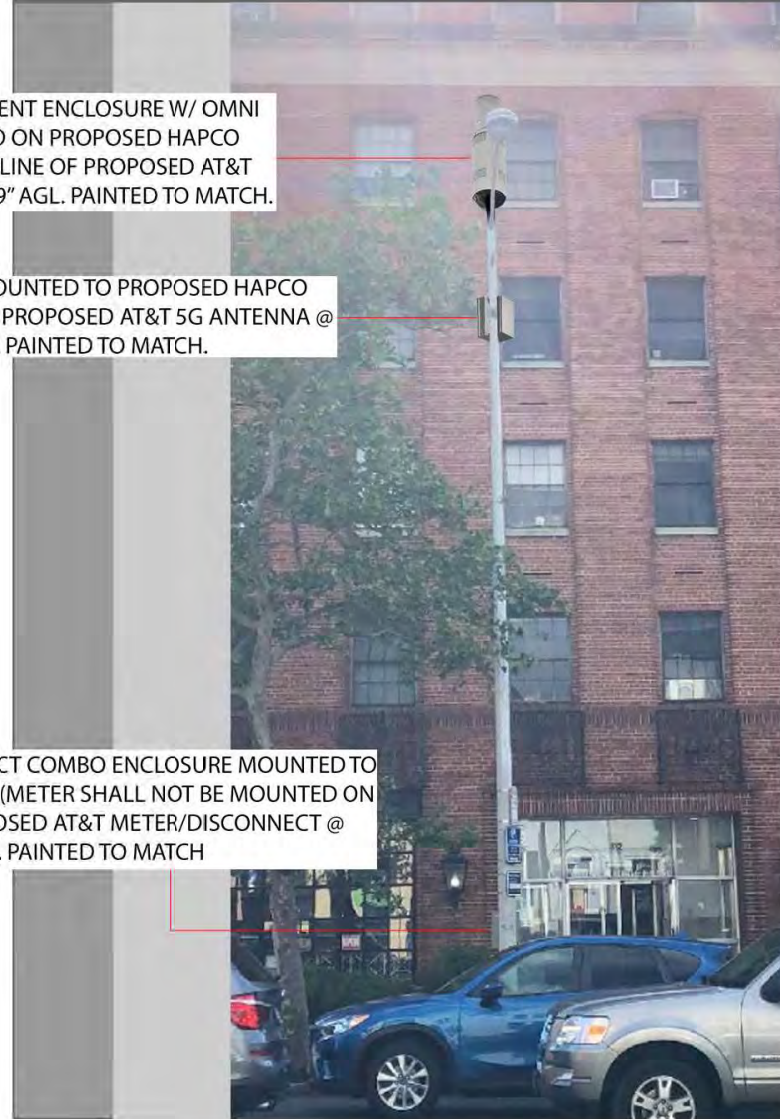


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PROPOSED VIEW



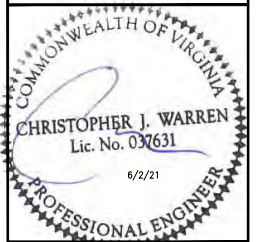






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USID: 273569
FA #: 14886195
HUB FA#: 14510358
VEPCO/DOMINION POLE# C114 UI41
312. S WASHINGTON ST
ALEXANDRIA , VA 22314

Prepared By:
INFINIGY
ENGINEERING, PLLC
6865 DEERPATH ROAD SUITE 152
ELKRIDGE, MD 21075



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT
IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/01/21
2	ISSUED FOR CONSTRUCTION	06/01/21
3	ISSUED FOR CONSTRUCTION	06/01/21
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5	ISSUED FOR CONSTRUCTION	06/01/21
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20	ISSUED FOR CONSTRUCTION	06/01/21

Project Title:
CRAN_RWSH_ALEXA_015A

**VEPCO/DOMINION
POLE # C114 UI41**

312. S WASHINGTON ST
ALEXANDRIA, VA 22314

Prepared For:

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EXPRESS WRITTEN CONSENT OF AT&T.

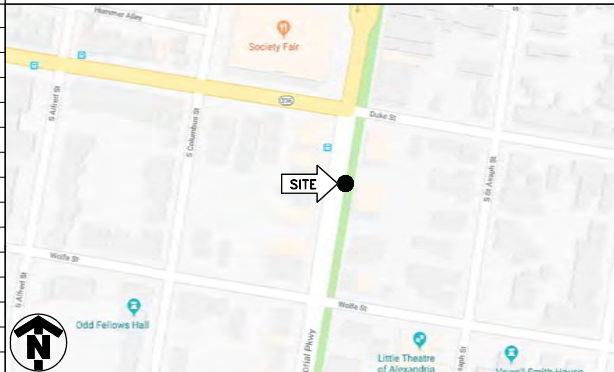
Project Manager:

Drawing Scale:
AS NOTED
Date:
03/24/20
Drawing Title:
TITLE SHEET
Drawing Number:
T-1

DRAWING INDEX

DRWG. #	TITLE	REV.#	DATE
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A-2	EQUIPMENT DETAILS	2	06/01/21
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A-4	DETAILS	2	06/01/21
E-1	UTILITY & GROUNDING DETAILS	2	06/01/21

VICINITY MAP



PROJECT DIRECTORY

STRUCTURE OWNER:	DOMINION ENERGY VIRGINIA 3072 CENTREVILLE ROAD HERNDON, VA 20171
CONTACT:	AUSTIN GORE PHONE: (571) 203-5259
APPLICANT:	AT&T MOBILITY 7150 STANDARD DRIVE HANOVER, MD 21076
CONTACT:	SEAN MITCHELL PHONE: (410) 440-0072
PROJECT MANAGER::	SMARTLINK 1362 MELLON ROAD, STE 140 HANOVER, MD 21076
CONTACT:	ALEX MILLER 410-582-8043 x133
ENGINEER:	INFINIGY ENGINEERING PLLC 6865 DEERPATH ROAD, SUITE 152 ELKRIDGE, MD 21075
CONTACT:	MATT BIRTH PHONE: (443) 567-8791

PROJECT INFORMATION

SITE NAME:	CRAN_RWSH_ALEXA_015A
SITE ADDRESS:	312. S WASHINGTON ST ALEXANDRIA , VA 22314
COUNTY:	ALEXANDRIA
ZONING JURISDICTION:	ALEXANDRIA COUNTY
STRUCTURE TYPE:	HAPCO STREET LIGHT POLE
LATITUDE:	38.802308° N
LONGITUDE:	-77.047447° W
POWER COMPANY:	VEPCO/DOMINION
NUJNS TICKET #:	4513675
TRANSPORT PROVIDER:	VERIZON
SITE LOCATION:	ROW

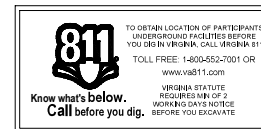
DRIVING DIRECTIONS

FROM: 7150 STANDARD DRIVE, HANOVER, MD 21076
DEPART STANDARD DR TOWARD PARKWAY DR, TURN LEFT ONTO PARKWAY DR, AND THEN IMMEDIATELY TURN RIGHT
ONTO PARK CIRCLE DR, TURN LEFT ONTO COCA COLA DR, ROAD NAME CHANGES TO COCA-COLA DR, TAKE RAMP
LEFT FOR MD-100 E, AT EXIT 9A, TAKE RAMP RIGHT FOR MD-295 SOUTH TOWARD SOUTH WASHINGTON, ROAD, NAME
CHANGES TO DC-295 S, PASS OTGO ON THE LEFT, ENTERING DISTRICT OF COLUMBIA, AT EXIT 1A, TAKE RAMP LEFT
AND FOLLOW SIGNS FOR I-295 SOUTH, ENTERING MARYLAND, AT EXIT 1C, TAKE RAMP RIGHT FOR I-495 SOUTH/
I-95 SOUTH TOWARD RICHMOND, ROAD NAME CHANGES TO I-95 S/I-495 S/I-495 LOCAL LANES/I-95 LOCAL
LANES/CAPITAL BELTWAY, ENTERING DISTRICT OF COLUMBIA, ROAD NAME CHANGES TO I-495 W/I-95 S/CAPITAL
BELTWAY/I-495 LOCAL LANES/I-95 LOCAL LANES ENTERING VIRGINIA, AT EXIT 177B-C, TAKE RAMP RIGHT FOR
US-1 NORTH TOWARD MT VERNON, KEEP STRAIGHT ONTO CHURCH ST, TURN LEFT ONTO VA-400/S WASHINGTON ST,
ARRIVE AT VA-400/S WASHINGTON ST ON THE RIGHT ARRIVE AT 312. S WASHINGTON ST , ALEXANDRIA , VA 22314

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALL IN ACCORDANCE WITH THE CURRENT
EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING
IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. INTERNATIONAL BUILDING CODE (2015 IBC)
2. TIA-EIA-222-C OR LATEST EDITION
3. NFPA 780 - LIGHTNING PROTECTION CODE
4. 2014 NATIONAL ELECTRIC CODE OR LATEST EDITION
5. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS
6. VA BUILDING CODE
7. LOCAL BUILDING CODE
8. CITY/COUNTY ORDINANCES
9. AT&T JOB AIDE



GENERAL CONSTRUCTION NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR
SUBCONTRACTOR – CONTRACTOR (CONSTRUCTION)
OWNER – AT&T
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY. UNLESS OTHERWISE NOTED, DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER AND CONSTRUCTION MANAGER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINE.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEViate FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, APPENDIX, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A-10-2-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING & EXCAVATION.

23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED. POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT MODIFIED PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH COMPACTED FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING." IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBE LIGHTS ARE PERMITTED, ANY REQUIRED LIGHTING MUST MEET FAA STANDARDS AND REQUIREMENTS.
40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
41. NO SIGNIFICANT NOISE, SMOKE, DUST OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR)
42. NO ADDITIONAL PARKING TO BE PROPOSED. EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
43. NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANY HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
C – NATIONAL FIRE CODES
A. UL – UNDERWRITERS LABORATORIES
B. NEC – NATIONAL ELECTRICAL CODE
C. NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
E. SBC – STANDARD BUILDING CODE

4. DO NOT SCALE ELECTRICAL DRAWINGS; REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
5. EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6. CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS, AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
8. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS, SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
9. MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
10. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
12. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDING, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY AT&T.
13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION & APPROVAL BY CONSTRUCTION MANAGER.
14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
19. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION, BACKFILLING AND COMPACTION. REFER TO FOUNDATION, EXCAVATION, AND BACKFILLING NOTES.
20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA, AND IEEE.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES, AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMANCE TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MADE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
25. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED – NO SUBSTITUTIONS.
26. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 – 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS – MULE TAPE. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-5 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADING RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD CALV.'
27. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
28. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 800 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
30. SERVICES: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR POWER.

31. TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 3' DEPTH. CONTRACTOR IS TO VERIFY REQUIRED JURISDICTIONAL DEPTH AND INSTALL TO MEET JURISDICTIONAL REQUIREMENTS.
33. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM."
34. ALL BOLTS SHALL BE STAINLESS STEEL

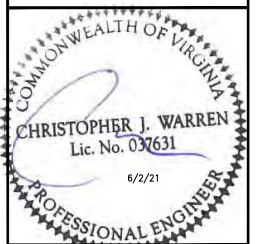
GROUNDING NOTES:

1. COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED STRANDED COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P," "A," "N," "I") WITH "1" LETTERS (WHERE APPLICABLE).
3. ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" INCH DIAMETER OR LARGER.
4. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
6. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
7. WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
8. ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

Prepared By:

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No.	Revised	By	Date
2	ISSUED FOR CONSTRUCTION	WFW	06/01/21
1	ISSUED FOR CONSTRUCTION	WFW	05/26/20
0	ISSUED FOR CONSTRUCTION	WFW	05/26/20
Subtotal / Revision		App'd	Date

Project Number: 1100-AJ0002-C
Drawn: WFW Date: 03/24/20
Designed: WFW Date: 03/24/20
Checked: WFW Date: 03/24/20

Project Title: CRAN_RWSH_ALEXA_015A

VEPCO/DOMINION
POLE # C114 UI41
312. S WASHINGTON ST
ALEXANDRIA, VA 22314

Prepared For:



Project Manager:



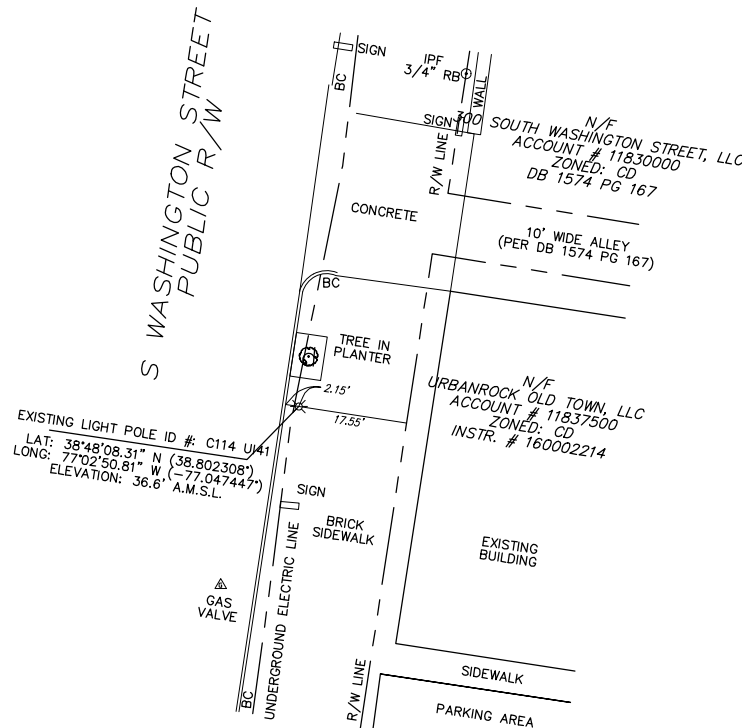
Drawing Scale: AS NOTED
Date: 03/24/20
CD

Drawing Title: GENERAL NOTES

Drawing Number:

GN-1

NOTE:
SITE PLAN INFORMATION IS BASED ON
RIGHT-OF-WAY SURVEY COMPLETED BY
POINT TO POINT LAND SURVEYORS,
DATED 04/16/2020.



1 SITE PLAN
SP-1 SCALE: AS NOTED

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

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VEPCO/DOMINION
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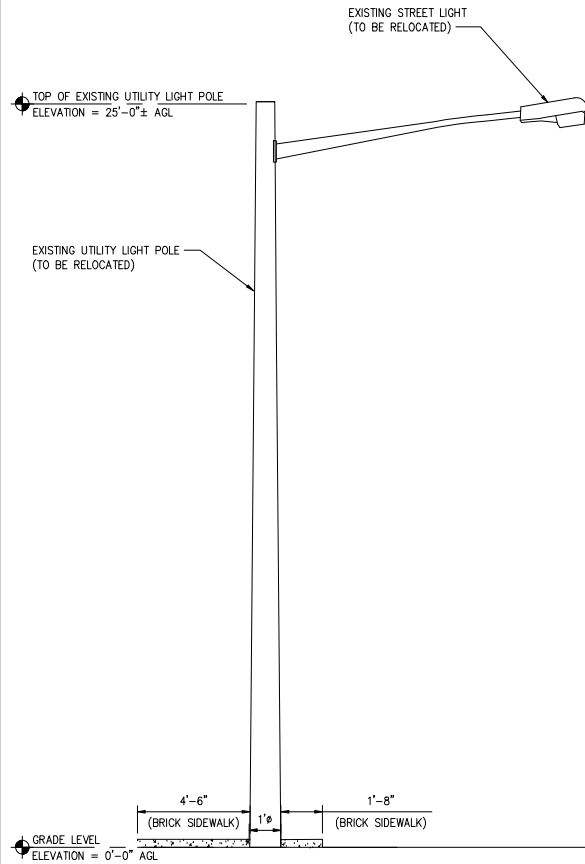
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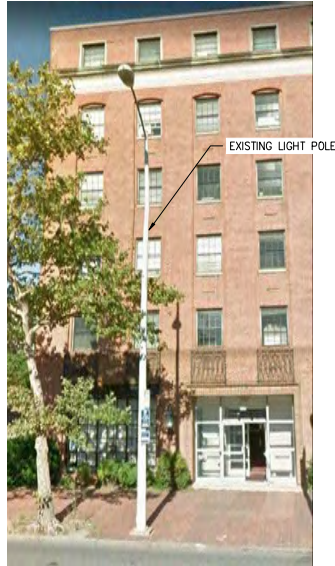
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Drawing Scale: AS NOTED
Date: 03/24/20
Drawing Title: **SITE PLAN**
Drawing Number: **SP-1**

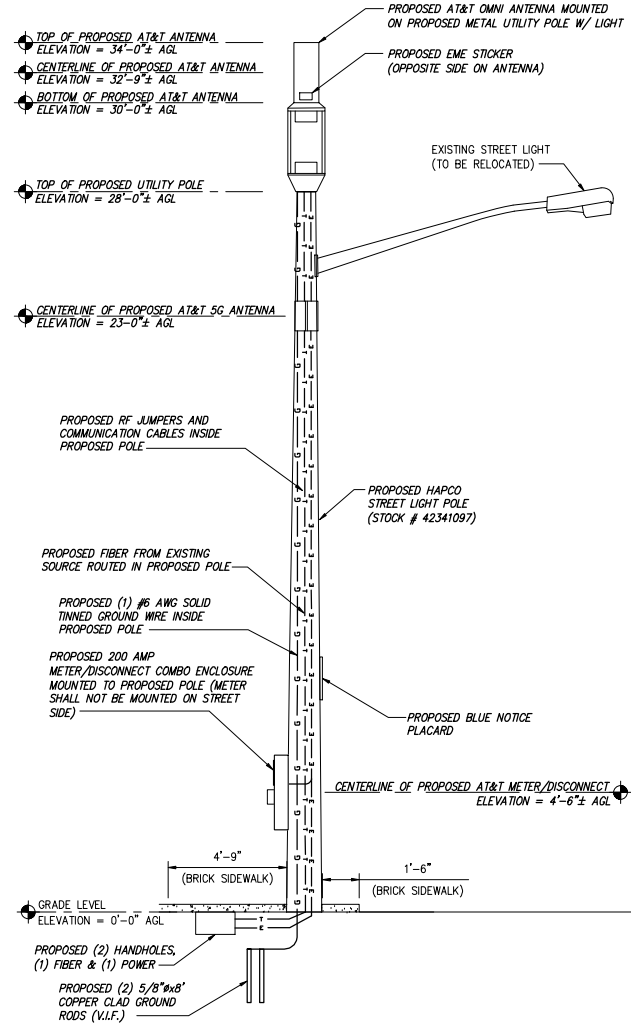
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1 EXISTING ELEVATION VIEW
A-1 NOT TO SCALE



2 EXISTING CONDITIONS PHOTO
A-1 NOT TO SCALE



3 PROPOSED ELEVATION VIEW
A-1 NOT TO SCALE

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2	ISSUED FOR CONSTRUCTION	06/01/20
3	ISSUED FOR CONSTRUCTION	06/01/20

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Project Title: CRAN_RWSH_ALEXA_015A

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POLE # C114 UI41
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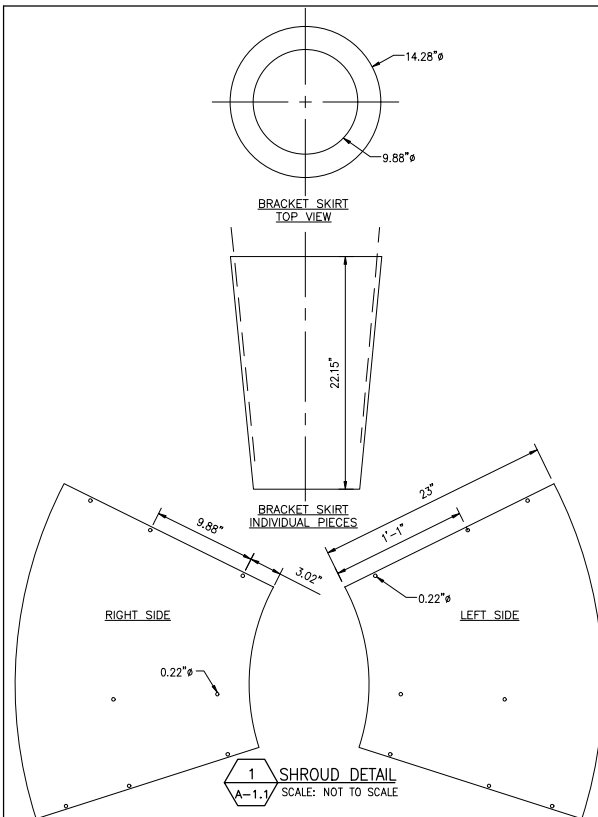
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Drawing Scale: AS NOTED
Date: 03/24/20
Drawing Title: ELEVATION VIEWS
Drawing Number: A-1

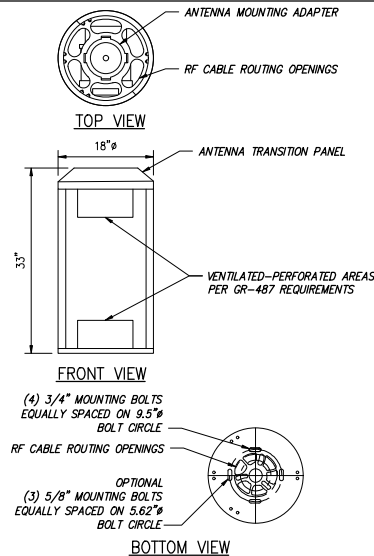


- AHFB B25 (PCS) – CEQ.20198
- AHIB B66 (AWS) – CEQ.20197



- HXWXD – 11.6" X 9.6" X 2.2"
- WEIGHT – 12.8 LBS.
- RF - NEX10 PLUS FEMALE
- POWER CONSUMPTION – 150 WATTS MAX
- MINIMUM AC FUSE RATING – 7 AMP
- 1 CPRI SFP INCLUDED

3 NOKIA AIRSCALE 4T4R RRH DETAIL
A-1.1 SCALE: NOT TO SCALE



- COMMSCOPE: SSC-760236577 SPECIFICATIONS
- HXWXD, (INCHES) : 18" 9x33"
 - WEIGHT (LBS) : TBD
 - COLOR : GRAY
 - VOLUME: 5.154 CUBIC FT

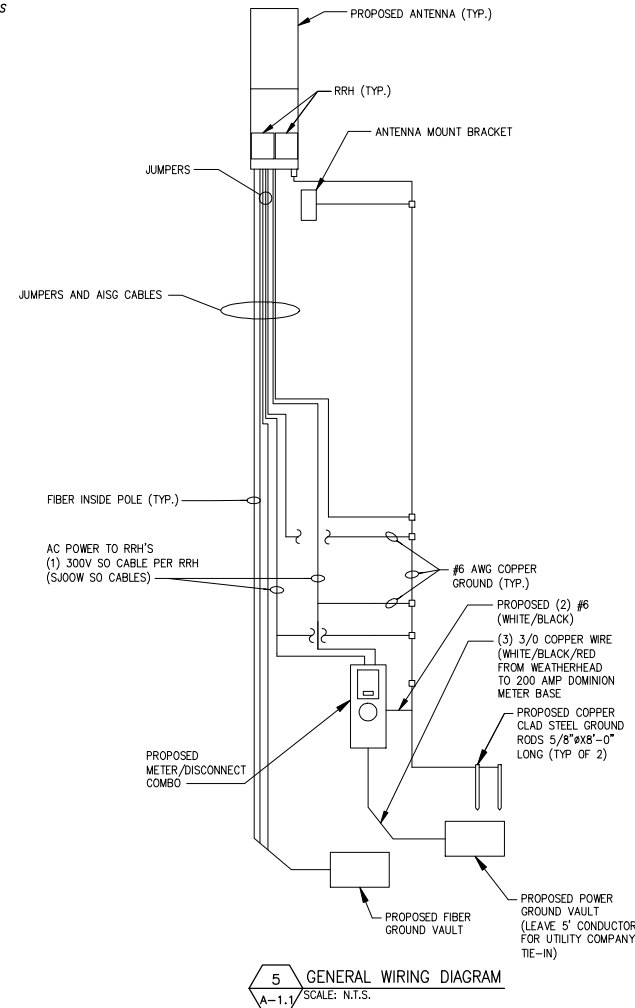
2 ANTENNA SHROUD & MOUNTING DETAIL
A-1.1 SCALE: NOT TO SCALE

- AZRB B46 (LAA) – CEQ.20927



- HXWXD – 11.6" X 10.6" X 2.2"
- WEIGHT – 12 LBS.
- RF - NEX10 PLUS FEMALE
- POWER CONSUMPTION – 90 WATTS MAX
- MINIMUM AC FUSE RATING – 7 AMP
- 2 CPRI SFP'S INCLUDED

4 NOKIA AIRSCALE 2T2R RRH DETAIL
A-1.1 SCALE: NOT TO SCALE



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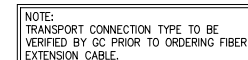
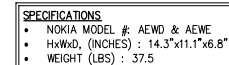
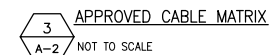
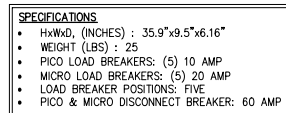
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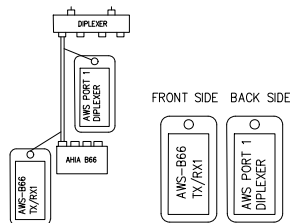
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Drawing Scale: AS NOTED
Date: 03/24/20
Drawing Title: EQUIPMENT
DETAILS
Drawing Number: A-1.1

1 AC PANEL SCHEDULE
A-2 NOT TO SCALE



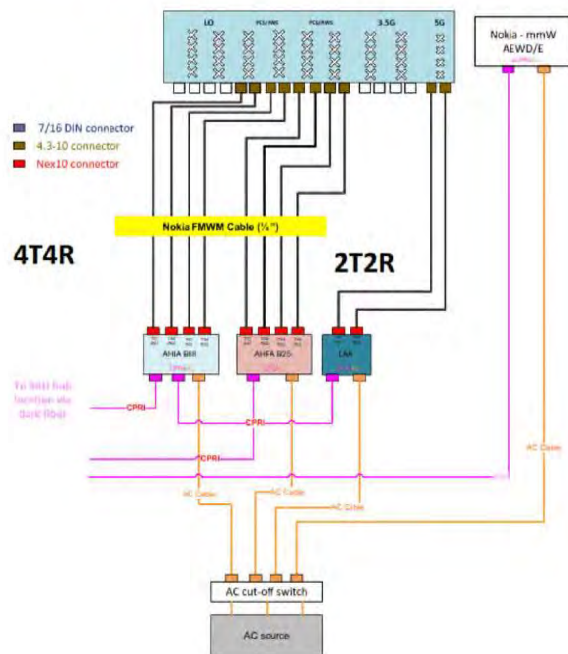


1 FIBER P-TOUCH TAG DETAIL
A-3 NOT TO SCALE

ANTENNA SCHEDULE									
SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA DIMENSIONS	RAD CENTER	TIP HEIGHT	AZIMUTH	CABLE LENGTH	RRH MODEL
A1	PROPOSED	GALTRONICS	GQ2418-B6941	24"x16"φ	32'-9"	34'-0"	0°-359°	40'-0"	(1) NOKIA B25 AIRSCALE PICO RRH
									(1) NOKIA B66 AIRSCALE PICO RRH
									(1) NOKIA LAA AIRSCALE PICO RRH
A2	PROPOSED	NOKIA	AEWD-E	14.3"x11.1"x6.8"	23'-0"	23'-7"	0°-360°		

3 ANTENNA SCHEDULE
A-3 NOT TO SCALE

Nokia Pico Pole Top Mount (LTE PCS/AWS/LAA & mmW) – RAD center < 35'



2 PLUMBING DIAGRAM
A-3 NOT TO SCALE

PICO (MID-BAND) CABLE LOSS CHART							
MIDBAND PICO JUMPER LOSSES (dB)	1/4" FLEX LENGTH (FT)	3/8" FLEX LENGTH (FT)	1/2" LSF LENGTH (FT)	APPROVAL REQUIRED	SERVICE IMPACT	ADDED COST	ADDED TIME
<0.5	14'	18'	18'	N/A	N/A	N/A	N/A
<1.0	6-12	10-18	10-18	DESIGN ENGINEER	UP TO 12% EISA LOSS	UP TO 1 NODE PER TRIGGER	DESIGN CHECK (10 - 45 DAYS)
<1.5	12-18	18-24	20-28	DESIGN ENGINEER	UP TO 21% EISA LOSS	UP TO 2 NODES PER TRIGGER	DESIGN CHECK (10 - 45 DAYS)
<2.0	18-22	26-34	30-38	RAN MANAGER APPROVAL	UP TO 24% EISA LOSS	UP TO 3 NODES PER TRIGGER	DESIGN REVIEW (20 - 45 DAYS)
<2.5	24-28	36-42	40-48	RAN MANAGER APPROVAL	UP TO 24% EISA LOSS	UP TO 3 NODES PER TRIGGER	DESIGN REVIEW (20 - 45 DAYS)
<2.5	38	42	48	RAN DIRECTOR APPROVAL	W/CONFORMANCE EQUIPMENT	1/2E MACRO RADIOS	REDESIGN (45 DAYS)

NOTES:
CELL EDGE TRAFFIC ESSENTIAL TO THE EFFICIENCY OF THE NODE CANNOT BE SACRIFICED TO JUMPER LENGTH.
15A EFFECTIVE SERVICE AREA REPRESENTS THE GEOGRAPHIC AREA WHERE THE ABOVE THRESHOLD

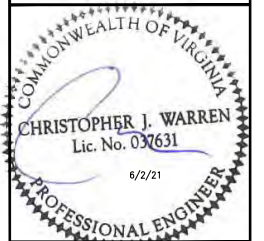
LAA CABLE LOSS CHART							
LAA 5.6GHz JUMPER LOSSES (dB)	1/4" FLEX LENGTH (FT)	3/8" FLEX LENGTH (FT)	1/2" LSF LENGTH (FT)	APPROVAL REQUIRED	SERVICE IMPACT	ADDED COST	ADDED TIME
<0.5	12'	14'	14'	N/A	N/A	N/A	N/A
<1.0	4-6	6-8	6-10	DESIGN ENGINEER	UP TO 40% DISPARITY W/ W/ PICO	RISK OF LOSING GSD ZONE	DESIGN CHECK (10 - 45 DAYS)
<1.8	10-18	18-24	20-28	RAN DIRECTOR APPROVAL	INEFFICIENT USE OF RADIO RESOURCES	LOSS OF GSD ZONE	DESIGN REVIEW (20 - 45 DAYS)

NOTES:

4 CABLE LOSS CHARTS
A-3 NOT TO SCALE

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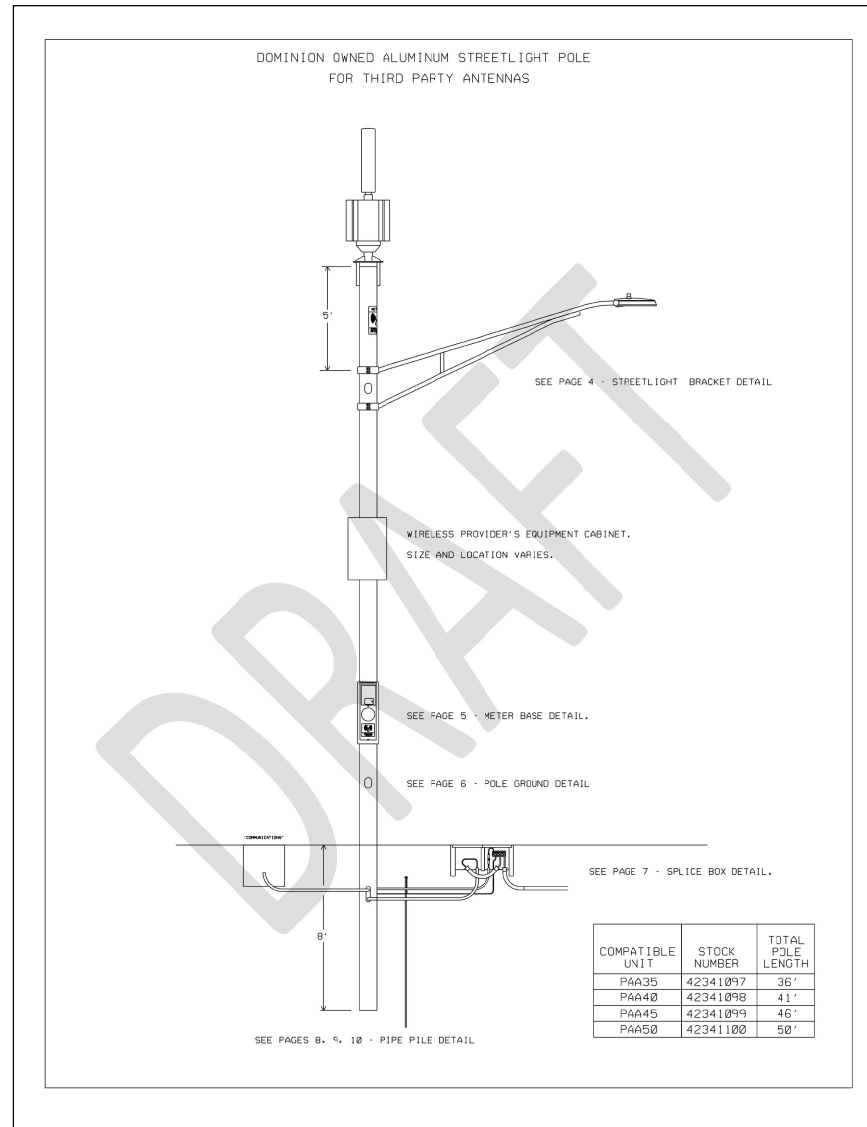
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1 LIGHT POLE DETAIL
A-4 NOT TO SCALE

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Project Title:
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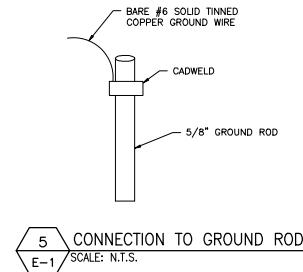
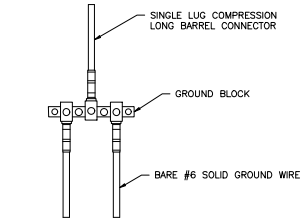
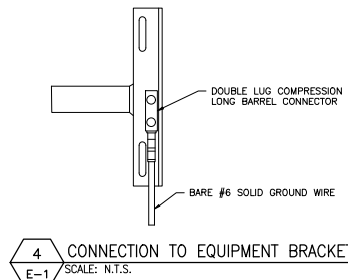
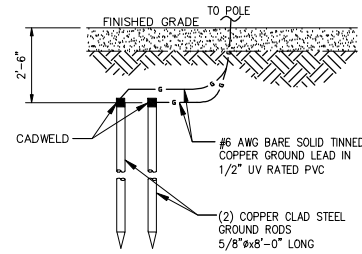
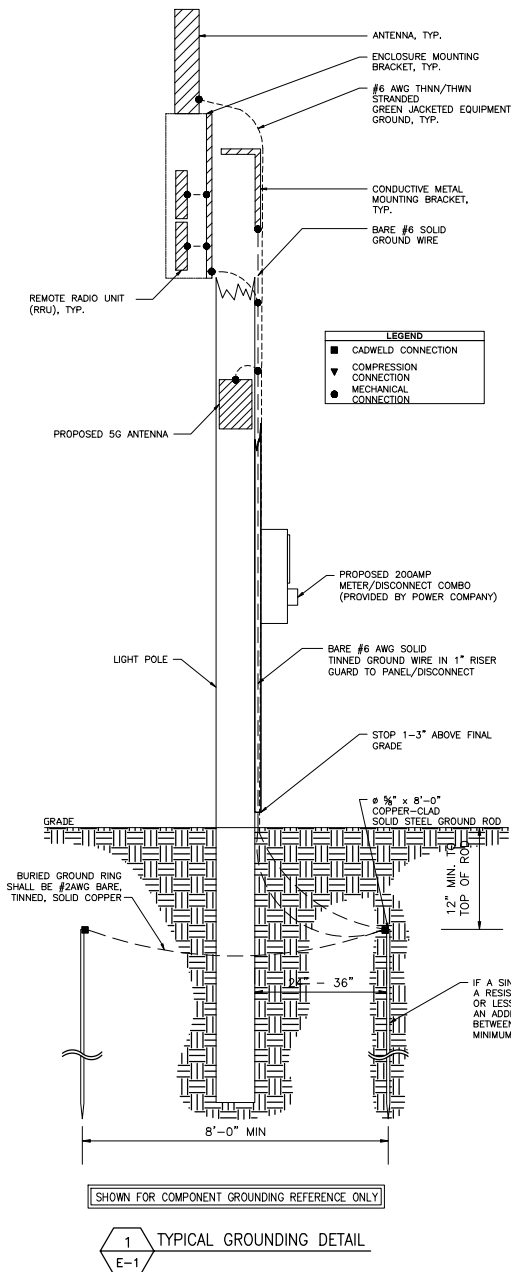
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Date: 03/24/20
Drawing Title: **DETAILS**
Drawing Number: A-4



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Drawing Title: **UTILITY & GROUNDING DETAILS**

Drawing Number: E-1