

Board of Architectural Review (BAR) Certificate of Appropriateness

Please Return To: City of Charlottesville

RECEIVED

Department of Neighborhood Development Services

P.O. Box 911, City Hall

Charlottesville, Virginia 22902

Telephone (434) 970-3130 Fax (434) 970-335900 DEVELOPMENT SERVICE

Please submit ten (10) copies of application form and all attachments.

For a new construction project, please include \$375 application fee. For all other projects requiring BAR approval, please include \$125 application fee. For projects that require only administrative approval, please include \$100 administrative fee. Make checks payable to the City of Charlottesville.

The BAR meets the third Tuesday of the month.

Deadline for submittals is Tuesday 3 weeks prior to next BAR meeting by 4 p.m.

Owner NameMidtown, LLC	_Applicant Name
Project Name/DescriptionAT&T LTE_CV325	Parcel Number100078000
Property Address 900 W Main St	
Applicant Information Address: 1632 E PARAM Road Email: 3 MUSCAREUA (2) DYNIS COM Phone: (W) 804 615 2737 (H) FAX: Property Owner Information (if not applicant) Address: 900 W Main St, Charlottesville, VA 22903 Email: Phone: (W) (H) (H) FAX:	SEE ATTACHED /EHER
Do you intend to apply for Federal or State Tax Credits for this project?	Signature Date
Description of Proposed Work (attach separate narra ANTENNA BEHIND STEAUTH CHI LINES ALME EXISTING CABLE IS List All Attachments (see reverse side for submittal re A&E Drawings PHOTOS & EXISTING EQUIPMENT	CUNS FOR 4 G LTE UPGRADE.
For Office Use Only Received by: A, Barroll Fee paid: 100 Cash Ck. # 1046 Date Received: 110 2013	Approved/Disapproved by:



9020 Mendenhall Court • Suite H Columbia, MD 21045 Phone 410.290.9972 • Fax 410.290.9132 www.dynis.com

Chip Hoyle General Manager Randy S. Richardson Hampton Inn, 900 West Main Street Charlottesville, VA 22903

RECEIVED

Date: March 28, 2012

Re: Landlord Notification for Maintenance at AT&T Mobility Site CV325 900 West Main Street, Charlottesville, VA

JAN 11 2013

NEIGHBORHOOD DEVELOPMENT SERVICES

Dear Mr. Hoyle,

Thank you for taking the time to review this request by AT&T Mobility to perform maintenance at the AT&T facility located at the Hampton Inn, 900 West Main Street, Charlottesville, VA 22903. Please note that the proposed maintenance work consists of replacing some of the existing antennas with similar ones that allow for 4G technology call processing. The number of the antenna authorized for use at the site will not change nor will the overall layout of the site. No additional lease space should be required.

I will be contacting you in the near future to arrange a visit to the site with our A&E firm. We will review the antenna mounting and confirm the specifics of the antenna that will be changed. A revised set of Constructions Drawings giving the more specific details will be prepared and presented to you prior to the work being completed. The antenna will be replaced with a similar type of antenna.

Section 2 of the Lease Agreement as amended states that the Tenant shall obtain Landlords prior written approval to make modifications and change antenna on the facility. The Agreement has been assigned to Central National Bank and I was wondering if you would share a contact for them or will you be coordinating with them on the approval?

Please sign below acknowledging receipt of this Notice letter and return either via email to Smuscarella@dynis.com or by US mail to: Steve Muscarella, 16006 Primrose Tarry Drive, Moseley, VA 23120.

I will schedule the Site Visit after I receive your approval and let you know when we will visit the site.

Steve Muscarella
Agent for AT&T Mobility

Sign Here: ____

Print Name:

Date:



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Board of Architectural Review City of Charlottesville Department of Neighborhood Development Services P.O. Box 911, City Hall Charlottesville, VA 22902 Date: January 7, 2013

NEIGHBORHOOD DEVELOPMENT OCHVICES

AT&T Request to Replace Existing Antenna at 900 West Main Street, Charlottesville, VA 22903

This is a request by AT&T Mobility to perform maintenance at the AT&T Cellular Communications facility located at the 900 West Main Street, Charlottesville, VA 22903. This location is a building structure that provides space for to AT&T for wireless antenna and related equipment to provide wireless services to the Charlottesville area.

This application is simply a request to replace the existing panel type antenna that are located on the roof of the building with a like kind panel antenna to upgrade and improve the AT&T wireless services at this site.

The proposed "maintenance work" consists of replacing the three existing antennas with similar ones that allow for 4G technology call processing. The number of the antenna authorized for use at the site will not change nor will the overall layout of the site. There will not be any change to any other exterior elements of the building or the mounting platforms that are currently provided by the building ownership.

Currently there are three (3) panel type AT&T antenna that are mounted within stealth chimney enclosures (sectors) that are designed to conceal the visibility of the antenna. The stealth chimneys will remain in their current locations with only the antenna being changed out with the newer model.

The current antenna locations and heights will not be changed as part of this application. The existing three (3) panel type antenna are EMS Wireless model DR85-17-02p12q are 54"x12"x4" in size and they will be replaced with three (3) Powerwave panel type antenna that are 72"x12"x6" in size. The existing mounting system will be reused for each antenna.

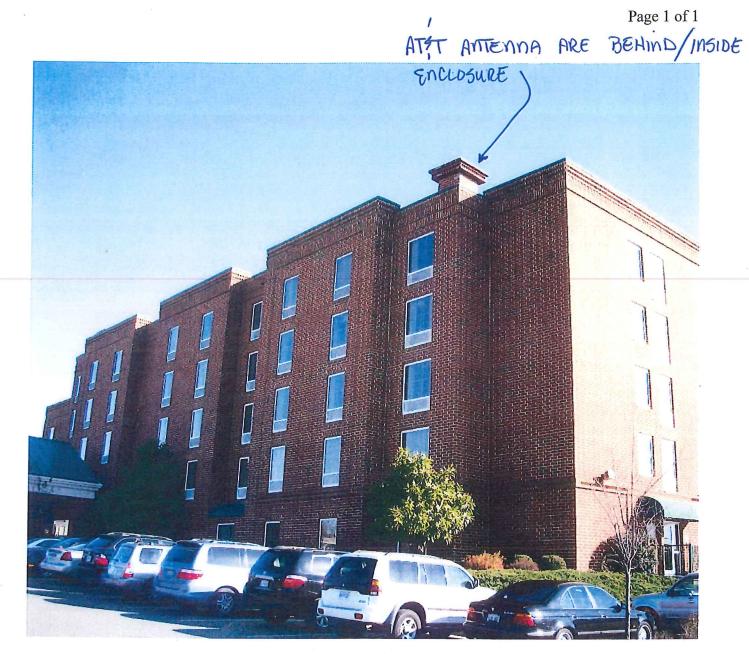
The existing equipment platform is also located on the roof and will not be increased in size or changed as part of this application. Some additional radio equipment will be place on the equipment platform to support the operation of the new antenna. Low voltage junction boxes will be mounted to the platforms to allow for ³/₄ inch fiber lines to connect between the radio

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cabinet on the platform and the antenna. These fiber lines will be run along AT&T's existing cable trays on the roof.

A revised set of Constructions Drawings giving the more specific details along with pictures of the existing antenna mounting platforms are being submitted with this application. Please review this request and approve the replacement of the existing antenna.

Respectfully	
Steve Muscarella Agent for AT&T Mobility	ol M Na
Sign Here:	Steve Muscaulla
Print Name:	Steven Muscarella
Date:	1/8/13
	fa.



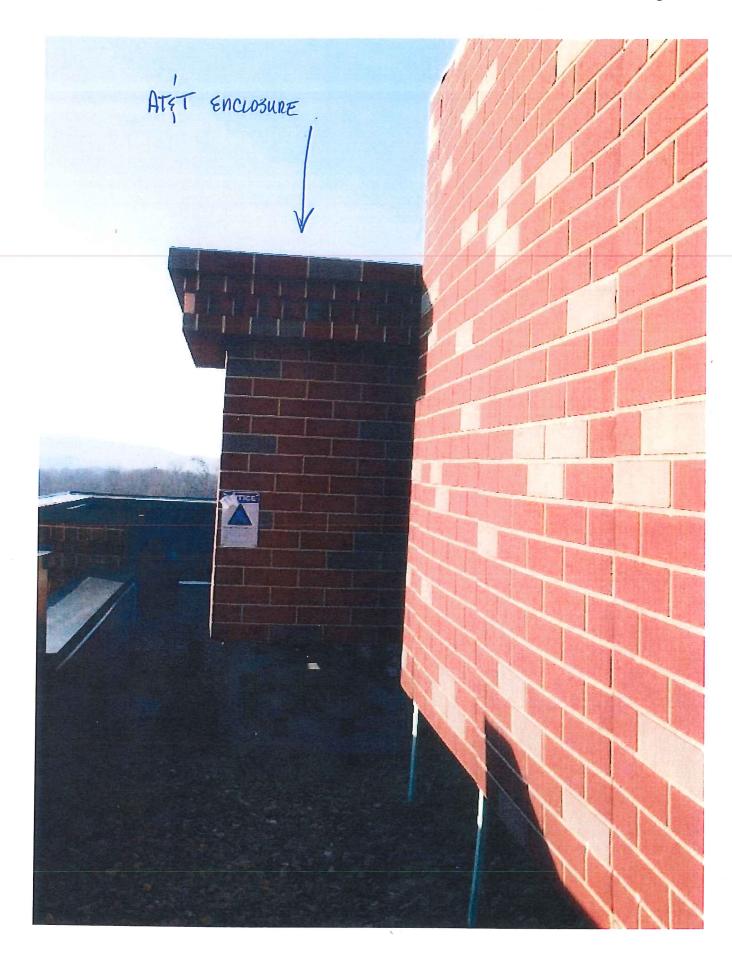
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NEIGHBORHOOD DEVELOPMENT SERVICES



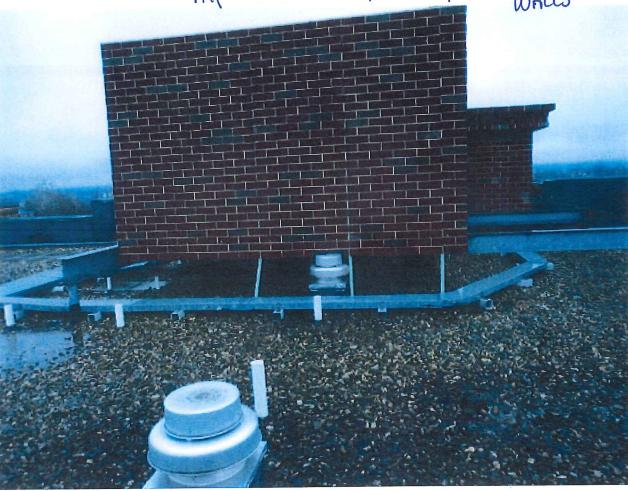




ATET ENCLOSURE FOR EXISTING AMENNA



ATET ENCLOSURE, EXISTING CABINETS BEHIND WALLS



ENGINEERING

2006 INTERNATIONAL BUILDING CODE 2008 NATIONAL ELECTRIC CODE TIA/EIA-222-G OR LATEST EDITION

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

PROJECT DESCRIPTION

PROPOSED UPGRADE OF EXISTING TELECOMMUNICATIONS FACILITY INCLUDING THE REMOVAL OF (3) EXISTING ANTENNAS AND INSTALLATION OF (3) NEW ANTENNAS ON EXISTING ANTENNA MOUNTS; (3) RADIO HEAD UNITS, ASSOCIATED SURGE SUPPRESSION AND APPURTENANCES ON AN EXISTING ROOFTOP EQUIPMENT PLATFORM AND UPGRADE SUPPORTING EQUIPMENT ON EXISTING PLATFORM.

SITE INFORMATION

SITE ADDRESS:

900 WEST MAIN STREET, CHARLOTTESVILLE, VA 22903

COUNTY:

CHARLOTTESVILLE CITY

LATITUDE (NAD 83):

38' 01' 55.60" N (38.032111)

LONGITUDE (NAD 83):

78' 29' 39.80" W (-78.49439)

REGION: US ID: NORTHEAST

FA LOCATION:

10068617

PROJECT CONTACTS

. .

COM-EX CONSULTANTS, LLC 862-209-4300

RAJ MAGUNTA - AT&T 408-505-5127

CONSTRUCTION:

TDD

RF DATA NOTE

CONTRACTOR SHALL OBTAIN LATEST RF DATA SHEET AND CONFIRM SAME WITH DYNIS CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION.

IF USING 11"x17" PLOT, DRAWINGS WILL BE HALF SCALE

CONTACT INFORMATION

ENGINEER:

COM-EX CONSULTANTS, LLC 4 SECOND AVENUE, SUITE 204 DENVILLE, NJ 07834

CONTACT: PHONE: NICHOLAS D. BARILE 862-209-4300

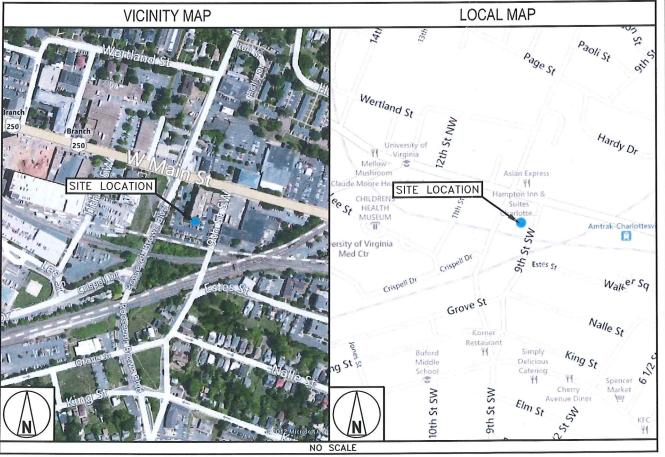
SITE NAME: HAMPTON INN SITE # CV325



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JAN 1 1 2013
NEIGHBORHOOD DEVELOPMENT SERVICES

LTE ROOFTOP



DRIVING DIRECTIONS

DIRECTIONS FROM NEAREST AT&T OFFICE:
START OUT GOING SOUTHWEST ON COX RD. TURN SLIGHT RIGHT ONTO NUCKOLS RD. MERGE ONTO I-295 N TOWARD I-64 W / CHARLOTTESVILLE. MERGE ONTO I-64 W VIA EXIT 53A TOWARD CHARLOTTESVILLE. TAKE THE VA-20 EXIT EXIT 121- TOWARD CHARLOTTESVILLE / SCOTISVILLE. TURN RIGHT ONTO VA-20 N. STAY STRAIGHT TO GO ONTO MONTICELLO AVE. TURN RIGHT ONTO RIDGE ST. TURN LEFT ONTO W MAIN ST. END AT 900 W MAIN ST

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR SITE MODIFICATIONS.

l	AT&T COMPLIANCE: —	DATE:
	AT&T RF ENGINEER:	DATE:
	AT&T OPERATIONS:	DATE:
	AT&T PM:	DATE:
	B&V CONSTRUCTION:	DATE:
	B&V SITE ACQ:	DATE:
	SITE OWNER:	DATE:

SHEET NO: SHEET TITLE T-1 TITLE SHEET C-1 PARTIAL ROOF PLAN AND EQUIPMENT LAYOUT C-2 WEST ELEVATION C-3 ANTENNA LAYOUTS C-4 EQUIPMENT DETAILS RF-1 RF DATA G-1 GROUNDING DETAILS G-1.1 EQUIPMENT GROUNDING PLAN GN-1 GENERAL CONSTRUCTION NOTES		DRAWING INDEX
C-1 PARTIAL ROOF PLAN AND EQUIPMENT LAYOUT C-2 WEST ELEVATION C-3 ANTENNA LAYOUTS C-4 EQUIPMENT DETAILS RF-1 RF DATA G-1 GROUNDING DETAILS G-1.1 EQUIPMENT GROUNDING PLAN	SHEET NO:	SHEET TITLE
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C-3 ANTENNA LAYOUTS C-4 EQUIPMENT DETAILS RF-1 RF DATA G-1 GROUNDING DETAILS G-1.1 EQUIPMENT GROUNDING PLAN		PARTIAL ROOF PLAN AND EQUIPMENT LAYOUT
C-4 EQUIPMENT DETAILS RF-1 RF DATA G-1 GROUNDING DETAILS G-1.1 EQUIPMENT GROUNDING PLAN	C-2	WEST ELEVATION
RF-1 RF DATA G-1 GROUNDING DETAILS G-1.1 EQUIPMENT GROUNDING PLAN	C-3	ANTENNA LAYOUTS
G-1 GROUNDING DETAILS G-1.1 EQUIPMENT GROUNDING PLAN	C-4	EQUIPMENT DETAILS
G-1.1 EQUIPMENT GROUNDING PLAN	RF-1	RF DATA
	G-1	GROUNDING DETAILS
GN-1 GENERAL CONSTRUCTION NOTES	G-1.1	EQUIPMENT GROUNDING PLAN
	GN-1	GENERAL CONSTRUCTION NOTES
·		

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME



UNDERGROUND SERVICE ALERT
MISS UTILITY
811
WWW.VA811.COM

3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION



LIBERTY PLAZA 1 4801 COX ROAD, SUITE 300 GLEN ALLEN, VA 23060



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COM → EX
Consultants

4 SECOND AVENUE
SUITE 204
DENVILLE, NJ 07834
PHONE: 862.209.4300
FAX: 862.209.4301
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CENTERATE of AUTHORIZATION & 240A28172100

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PROJECT NO:

В	05/31/12	REVISED PER CLIENT COMMENTS
Α	05/09/12	INITIAL SUBMISSION
REV	DATE	DESCRIPTION

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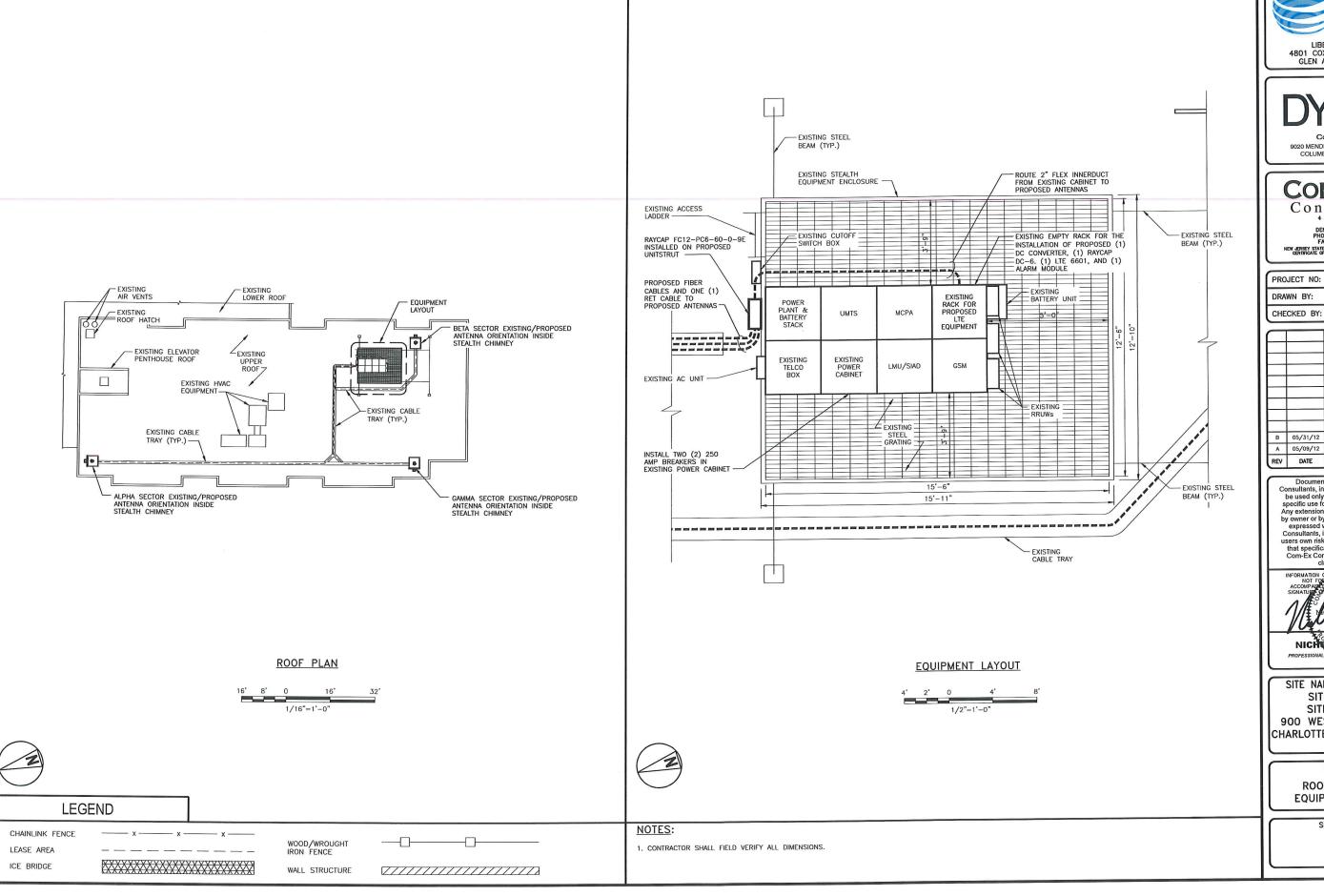
SITE NAME: HAMPTON INN
SITE # CV325
SITE ADDRESS:
900 WEST MAIN STREET
CHARLOTTESVILLE, VA 22903
LTE

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1





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SUITE 204
DENVILLE, NJ 07834
PHONE: 862.209,4300
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NICHOLAS D. BARTLE

SITE NAME: HAMPTON INN
SITE # CV325
SITE ADDRESS:
900 WEST MAIN STREET
CHARLOTTESVILLE, VA 22903
LTE

SHEET TITLE

ROOF PLAN AND EQUIPMENT LAYOUT

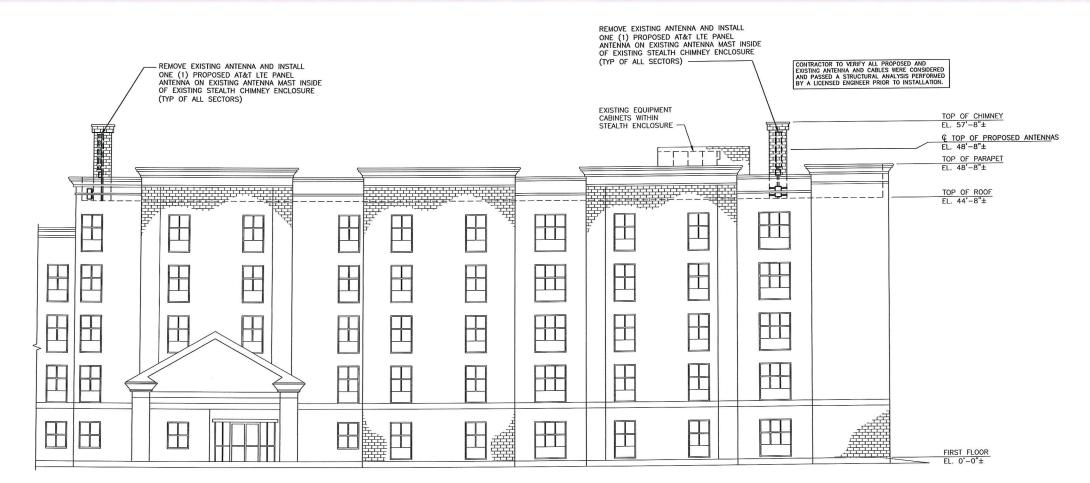
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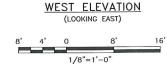
C-1

GENERAL NOTES

- 1. ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUNDING KITS. FOLLOW THE
- MANUFACTURER'S RECOMMENDATIONS.

 A. GROUNDING AT THE ANTENNA LEVEL.
- B. GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
 C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
 D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
- E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
- 2. ALL PROPOSED GROUNDING BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUNDING BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-O" BELOW GROUNDING BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANTENNA AND THE COAX CONFIGURATION IS THE CORRECT MAKE AND MODELS, PRIOR TO INSTALLATION.
- ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.
- 5. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON
- CONTRACTOR TO VERIFY ALL PROPOSED AND EXISTING ANTENNA AND CABLES WERE CONSIDERED AND PASSED A STRUCTURAL ANALYSIS PERFORMED BY A LICENSED ENGINEER PRIOR TO INSTALLATION.
- 7. DISTANCE FROM RRHS TO SURGE ARRESTOR TO BE A MAXIMUM OF 5 METERS.







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4 SECOND AVENUE SUITE 204 DENVILLE, NJ 07834 PHONE: B62.209.4300 FAX: B62.209.4301 NEW JERSEY STATE BOARD OF PROFESSIONAL ENGINEERS CERTIFICATE OF AUTHORIZATION # 240A28172100

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PRO	JECT NO:	12035-DYN
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NICHOLAS D. BARTLE

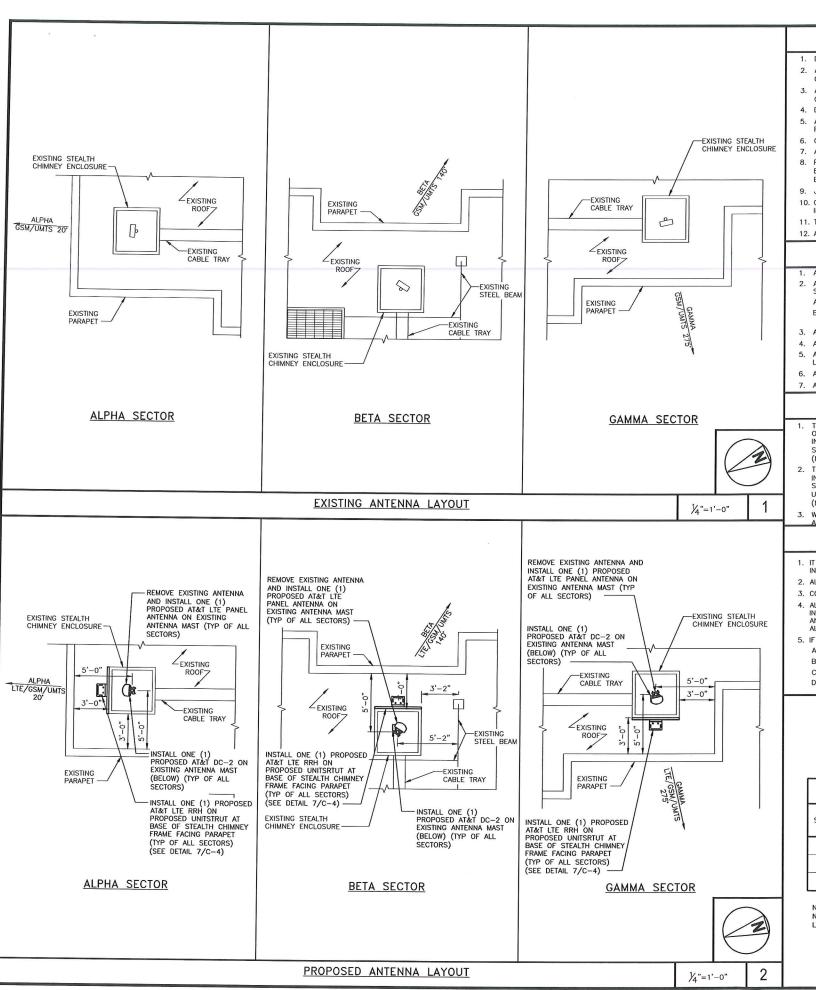
SITE NAME: HAMPTON INN SITE # CV325 SITE ADDRESS: 900 WEST MAIN STREET CHARLOTTESVILLE, VA 22903 LTE

SHEET TITLE

WEST ELEVATION

SHEET NUMBER

C-2



ANTENNA MOUNTING NOTES:

- 1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP)
 ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
- 4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- 5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
- 6. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
- 7. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
- 8. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND-00246.
- 9. JUMPERS FROM THE TMA'S MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
- 10. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
- 11. TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.
- 12. ANTENNAS SHALL HAVE A 4'-0" MIN CENTER TO CENTER HORIZONTAL SEPARATION.

TORQUE REQUIREMENTS:

- 1. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
- 2. ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
- A. RF CONNECTION BOTH SIDES OF THE CONNECTION.
- B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.
- 3. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).
- 4. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).
- 5. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
- 6. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 29.8 NM).
- 7. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 2.3 NM).

FIBER & POWER CABLE MOUNTING NOTES:

- THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER
 OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE
 INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES
 SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70
 (NEC) ARTICLE 770 RULES SHALL APPLY.
- 2. THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION; WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
- . WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY

GENERAL NOTES:

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
- 2. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
- 3. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
- 4. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
- 5. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
- A. TEMPERATURE SHALL BE ABOVE 50' F.
- B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
- C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
- D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS

	PROPOSED ANTENNA AND TRANSMISSION CABLES REQUIREMENT						
		750,000,000	ANTENNA		TRANSMISSION CABLE		
SECTOR ANTENNA TYPE		TECHNOLOGY	AZIMUTH	DOWNTILT	QTY.	LENGTH	TYPE
A1	P65-16-XLHH-RR	LTE	20°	0,	1	140'	NEW FIBER
B1	P65-16-XLHH-RR	LTE	140*	0,	1	80'	NEW FIBER
G1	P65-16-XLHH-RR	LTE	275*	0,	1	80'	NEW FIBER

NOTE: NEW ANTENNAS WILL HANDLE GSM/UMTS AND LTE. UTILIZE EXISTING COAX FOR GSM/UMTS.



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PHONE: 862.209.4300
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CERTIFICATE OF AUTHORIZATION § 240A28172100

12035-DYN

PROJECT NO:

REV	DATE	DESCRIPTION		
Α	05/09/12	INITIAL SUBMISSION		
В	05/31/12	REVISED PER CLIENT COMMENTS		
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СН	ECKED BY:	NDE		
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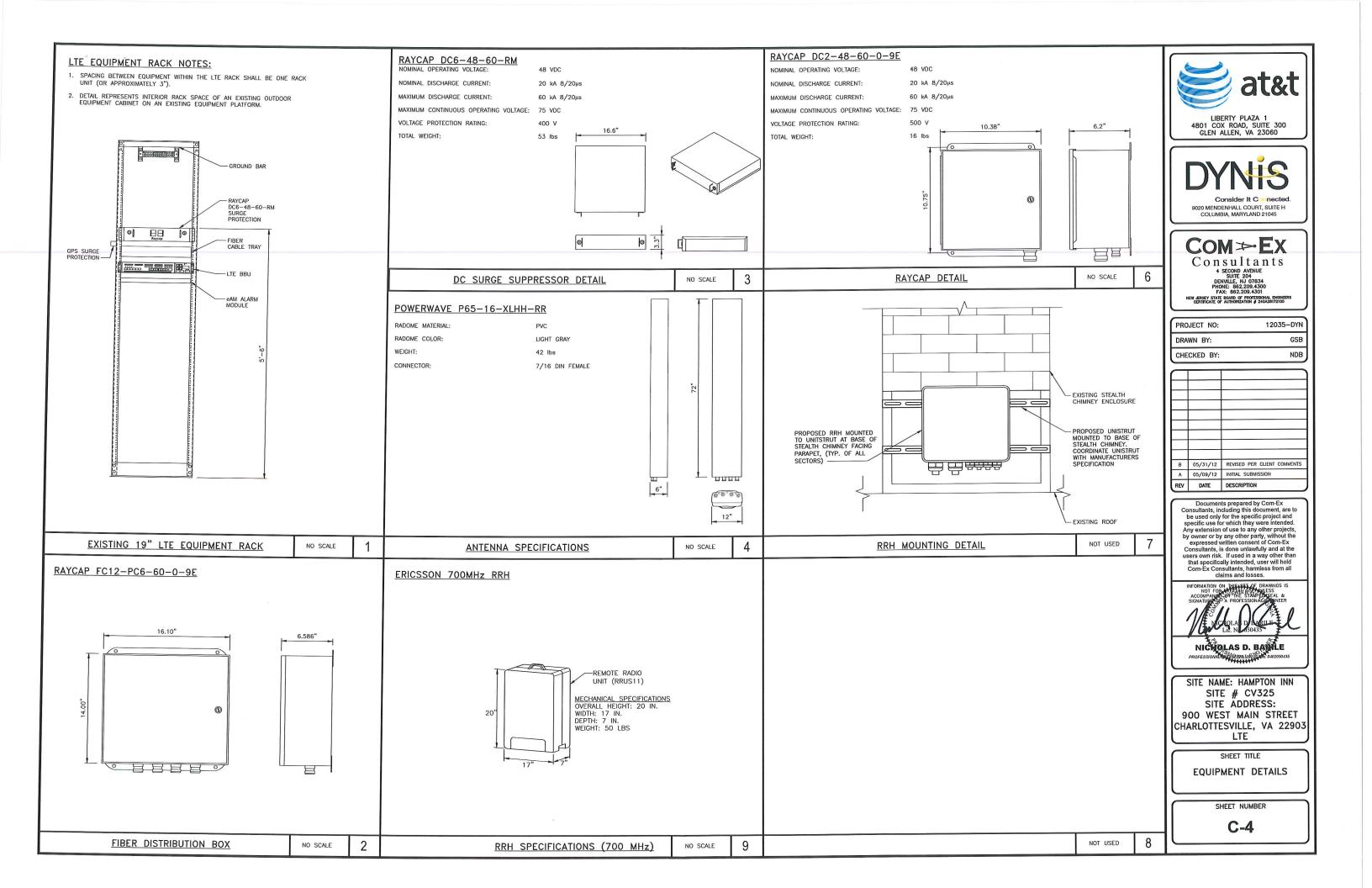
SITE NAME: HAMPTON INN
SITE # CV325
SITE ADDRESS:
900 WEST MAIN STREET
CHARLOTTESVILLE, VA 22903
LTE

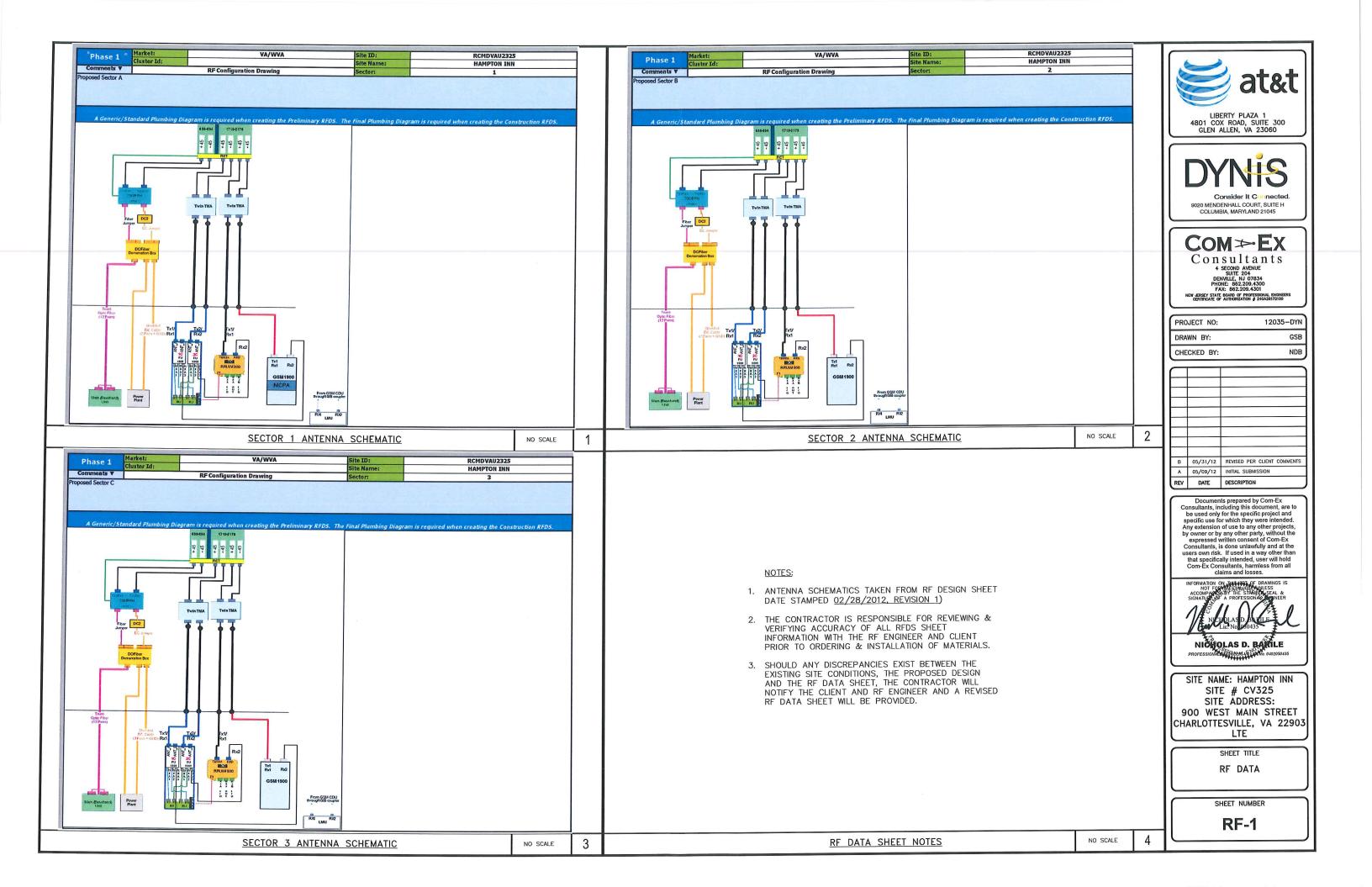
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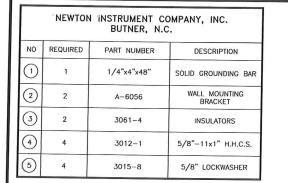
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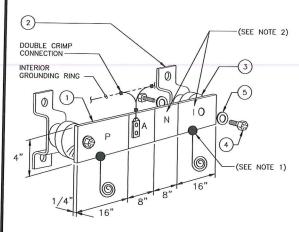
SHEET NUMBER

C-3









EACH GROUNDING CONDUCTOR TERMINATING ON ANY GROUNDING BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION

SECTION "P" - SURGE PROTECTORS

(EC) CELL REFERENCE GROUNDING BAR (IF COLLOCATED) (EC) GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)

(EC) TELCO GROUNDING BAR (#2 AWG)

(EC) COMMERCIAL POWER COMMON NEUTRAL/GROUNDING BOND (3/0)

(EC) FIBER GROUNDING BAR (#2 AWG)

(EC) POWER ROOM REFERENCE GROUNDING BAR (#2 AWG) (AT&T) RECTIFIER FRAMES

SECTION "A" - SURGE ABSORBERS

- (EC) INTERIOR GROUNDING RING (#2 AWG)
- (EC) EXTERNAL EARTH GROUNDING FIELD (BURIED GROUNDING RING) (#2 AWG)
 (EC) METALLIC COLD WATER PIPE (IF AVAILABLE) (1/0 AWG)

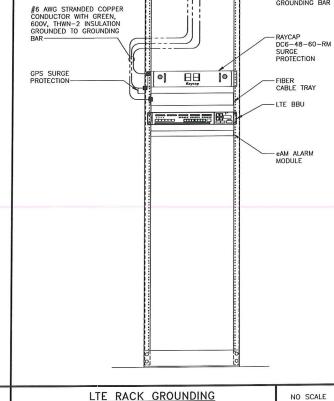
(EC) BUILDING STEEL (IF AVAILABLE) (1/0 AWG)

SECTION "N" - NON-ISOLATED GROUNDING ZONE

(EC) MISC. NON-ISOLATED GROUNDING ZONE EQUIPMENT (AT&T)-48V POWER SUPPLY RETURN BARE

SECTION "I" - ISOLATED GROUNDING ZONE

(AT&T) ALL ISOLATED GROUNDING REFERENCE



NOTES:

GROUNDING BAR

2

- EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- ALL GROUNDING BARS SHALL BE STAMPED IN TO THE METAL "IF STOLEN DO NOT RECYCLE." THE CONTRACTOR SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION_AND_LABEL EACH SECTION ("P", "A", "N", "I") WITH 1"
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- 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.
- DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUNDING CONDUCTOR DOWN TO GROUNDING BUS.
- 6. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE ROUNDING BAR AND BOLTED ON THE BACK SIDE. INSTALL
 BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL
 GROUNDING TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- 7. SUPPLIED AND INSTALLED BY CONTRACTOR.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUNDING BAR AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
- 9. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).



LIBERTY PLAZA 1 4801 COX ROAD, SUITE 300 GLEN ALLEN, VA 23060



9020 MENDENHALL COURT, SUITE H COLUMBIA, MARYLAND 21045



4 SECOND AVENUE SUITE 204 DENVILLE, NJ 07834 PHONE: 862.209.4300 FAX: 862.209.4301 NEW JERSEY STATE BOARD OF PROFESSIONAL ENGINEERS CERTIFICATE OF AUTHORIZATION # 24GA28172100

PROJECT NO:

12035-DYN

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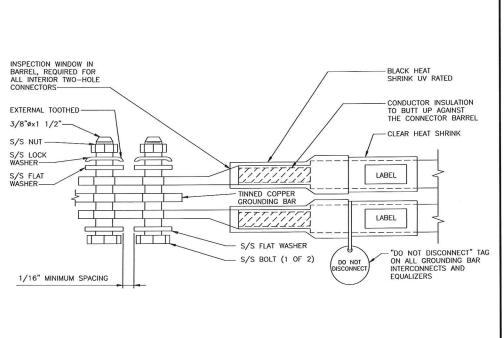
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SITE NAME: HAMPTON INN SITE # CV325 SITE ADDRESS: 900 WEST MAIN STREET CHARLOTTESVILLE, VA 22903 LTE

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER



BLACK HEAT CLOSED BARREL FOR SHRINK UV RATED ALL EXTERIOR TWO-HOLE CONNECTORS CONDUCTOR INSULATION EXTERNAL TOOTHED TO BUTT UP AGAINST
THE CONNECTOR BARREL 3/8"øx1 1/2" - CLEAR HEAT SHRINK S/S NUT-S/S LOCK WASHER— LABEL TINNED COPPER GROUNDING BAR LABEL S/S FLAT WASHER "DO NOT DISCONNECT" TAC - S/S BOLT (1 OF 2) DO NOT ON ALL GROUNDING BAR INTERCONNECTS AND 1/16" MINIMUM SPACING

EXTERIOR TWO HOLE LUG DETAIL

(MGB) REFERENCE GROUNDING BAR

3

NO SCALE

NO SCALE

INTERIOR TWO HOLE LUG DETAIL

NO SCALE

4

5 NOT USED

G-1

SHELTER/ANTENNA SITE:

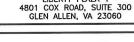
NOTES:

- 1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
- CONTACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND AT&T GROUNDING AND BONDING REQUIREMENTS (ATT-TP-76416) AND MANUFACTURER'S SPECIFICATIONS.
- 3. ALL GROUNDING CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

GROUNDING KEY NOTES:

- A) BUILDING GROUND RING: THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA BUILDING'S LEGS, AND/OR GUY ANCHORS. WHERE SEPARATE SYSTEMS HAVE BEEN PROVIDED FOR THE BUILDING AND THE BUILDING, AT LEAST TWO BONDS SHALL BE MADE BETWEEN THE BUILDING RING GROUND SYSTEM AND THE BUILDING RING GROUND SYSTEM AND THE BUILDING RING GROUND SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS. (ATT-TP-76416 7.5.1)
- B) INTERIOR GROUND RING: #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTOR EXTENDED AROUND THE PERIMETER OF THE EQUIPMENT AREA. ALL NON-TELECOMMUNICATIONS RELATED METALLIC OBJECTS FOUND WITHIN A SITE SHALL BE GROUNDED TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR. (ATT-TP-76416 7.6.4)
- © BOND TO INTERIOR GROUND RING: #2 AWG SOLID TINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING. (ATT-TP-76416
- D CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS. (ATT-76416 7.6.5)
- E) HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CRGB MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS.
- F) EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH AND EXOTHERMIC WELD AND INSPECTION SLEEVE. (ATT-TP-76416 7.6.7.2)
- (G) BUILDING EXIT GROUND BAR: #2 AWG SOLID TINNED COPPER BOND TO THE BUILDING GROUND RING. (ATT-TP-76416 7.55)
- (H) TELCO GROUND BAR: BOND TO BOTH CELL REFERENCE GROUND BAR AND EXTERIOR GROUND RING. (ATT-TP-76416 7.6.8)
- FRAME BONDING: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK. BOND THE FRAME GROUND BUS TO THE "!" SECTION OF THE CELL REFERENCE GROUND BAR. (ATT—TP—76416 7.8)









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12035-DYN

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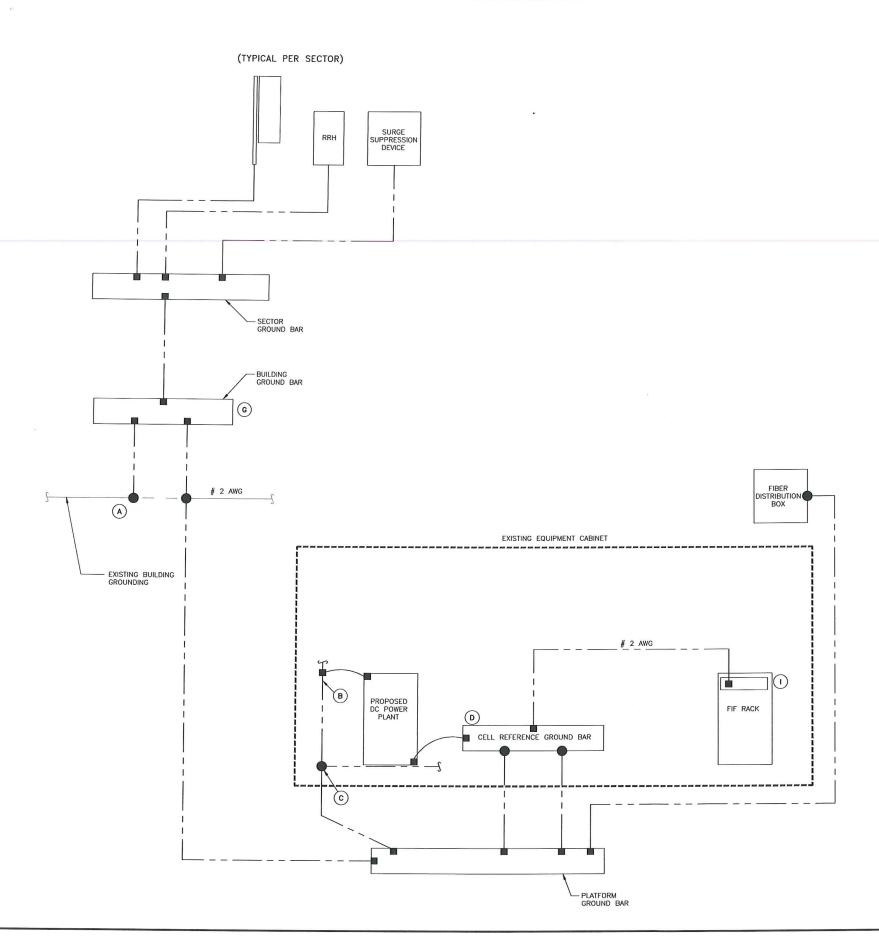
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SHEET TITLE

EQUIPMENT GROUNDING PLAN

SHEET NUMBER

G-1.1



GENERAL CONSTRUCTION NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: GENERAL CONTRACTOR OVERLAND CONTRACTING INC. (B&V) CONTRACTOR: (CONSTRUCTION)
 OWNER AT&T
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
- 3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF 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 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.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS
- 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 VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER 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 CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- 11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR 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. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 16. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- 17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- 21. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-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 ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR 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, AND 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 AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE 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. CONTRACTOR 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.
- 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 STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT
 STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL
 BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL
 BURDINGTON.
- 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.
- CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS—BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 31. CONTRACTOR 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 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. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- 37. CONTRACTOR 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.
- NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.





GLEN ALLEN, VA 23060

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C O n sultants

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SITE # CV325
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SHEET TITLE

GENERAL

CONSTRUCTION NOTES

SHEET NUMBER

GN-1