



Board of Architectural Review (BAR)
Certificate of Appropriateness
 Please Return To: City of Charlottesville
 Department of Neighborhood Development Services
 P.O. Box 911, City Hall
 Charlottesville, Virginia 22902
 Telephone (434) 970-3130 Fax (434) 970-3359

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 Name AT&T MOBILITY Applicant Name Rency Yeatts (Velocitel)
 Project Name/Description CV325 LTE/2C Antenna Upgrade Parcel Number 100078000
 Property Address 900 West Main Street, Charlottesville, VA

Applicant Information

Address: 4144 Innslake Dr.
Glen Allen, VA 23060
 Email: r.yeatts@velocitel.com
 Phone: (W) 757-573-3129 (H) _____
 FAX: 804-217-8665

Signature of Applicant

I hereby attest that the information I have provided is, to the best of my knowledge, correct. (Signature also denotes commitment to pay invoice for required mail notices.)

Rency Yeatts 7/18/2014
 Signature Date

Rency yeatts
 Print Name Date

Property Owner Information (if not applicant)

Address: Midtown Hospitality
900 W Main St., Cville, VA 22903
 Email: Randy Richardson
 Phone: (W) (434) 923-8600 (H) _____
 FAX: _____

Property Owner Permission (if not applicant)

I have read this application and hereby give my consent to its submission.

Do you intend to apply for Federal or State Tax Credits for this project? n/a

Signature Date

Print Name Date

Description of Proposed Work (attach separate narrative if necessary):
remove existing antennas and replace with new antennas

List All Attachments (see reverse side for submittal requirements):
site plan drawings and structural analysis provided

For Office Use Only
 Received by: O. Eubank
 Fee paid: 100.00 Cash/Ck. # 1831
 Date Received: 7/25/14
P14-013
 Approved/Disapproved by: MJ Seal
 Date: July 25, 2014
 Conditions of approval: All equipment shall be concealed in stealth structures or behind parapet.



FDH Engineering, Inc., 6521 Meridien Dr. Raleigh, NC 27616, Ph. 919.755.1012, Fax 919.755.1031

May 6, 2014

Mr. Xiao He
Velocitel, Inc.
8000 Regency Parkway, Suite 430
Cary, NC 27518

RE: Roof Top
Site Name: Hampton Inn
USID: 49372-A
FA Location Code: 10068617
FDH Project No. 1463XK1400

Dear Xiao:

Per your request, FDH Engineering, Inc. has reviewed the existing and proposed loading for the roof top located in Charlottesville, VA. The Tower Analysis Summary form lists the existing and proposed appurtenance loading (see page 2).

According to information provided by Velocitel, Inc., the proposed loading will be installed on the existing mounts on the roof top. With the AT&T loading at a centerline elevation of 53' above grade, the increase in wind area from the proposed antennas is insignificant with respect to the wind area of the antennas that are to be replaced. Furthermore, due to the marginal increase in wind area, the roof top will not experience any significant change in weight and the existing mounts and mount connections are assumed to be adequate for the existing and proposed antenna loading.

Our assessment has been made assuming all information provided to FDH Engineering, Inc. is accurate and that the building has been properly erected and maintained.

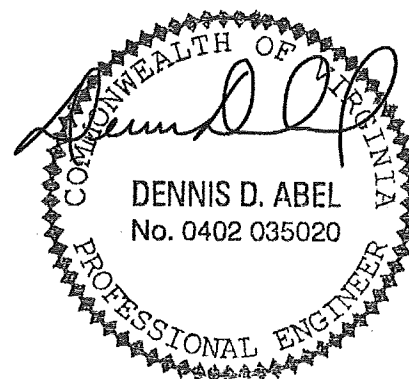
In conclusion, the revised AT&T installation should meet or exceed all applicable standards and should therefore be considered safe. Should you require additional information, please do not hesitate to contact our office.

Prepared By:

Chip DeVoto, EI
Project Engineer

Reviewed By:

Dennis D. Abel, PE
Director - Structural Engineering
VA PE License No. 0402 035020



05-06-2014

Tower Analysis Summary Form

General Info

Site Name	Hampton Inn
Site Number	49372-A
F/A Number	10068617
Date of Analysis	5/9/2014
Company Performing Analysis	FDH Engineering, Inc.

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Tower Info

Tower Type (G, SST, MP)	Root Top	Date
Tower Height (top of steel AGL)	57	
Tower Manufacturer	N/A	
Tower Model		
Foundation Design		
Geotech Report	N/A	
Tower Mapping		
Previous Structural Analysis	Com Ex Consultants	
Foundation Mapping		6/22/2012

Design Parameters

Design Code Used	ANSI/TIA-222-G
Location of Tower (County, State)	Charlottesville City, VA
Basic Wind Speed (mph)	90
Ice Thickness (in)	0.75
Structure Classification (I, II, III)	II
Exposure Category (B, C, D)	B
Topographic Category (1 to 5)	1

Steel Yield Strength (ksi)

Pole	n/a
Base Plate	n/a
Anchor Bolts	n/a

Analysis Results (% Maximum Usage)	
Existing/Reserved + Future + Proposed Condition	
Tower (%)	
Base Plate (%)	
Foundation (%)	
Foundation Adequacy?	Yes
Analysis Results (% Maximum Usage)	
Existing/Reserved + Proposed Condition	
Tower (%)	
Base Plate (%)	
Foundation (%)	
Foundation Adequacy?	Yes

Existing / Reserved Loading

Antenna			Mount			Transmission Line			Attachment		
Antenna Owner	Mount Height (ft)	Antenna Cl. (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Model	Size	Attachment Leg/Face
AT&T	53	53	3	Panel	Powerwave	P66-16-XLH-H-R1	30,150,270	12	Unknown	7/8"	
AT&T	53	53	6	TMA	Powerwave	LGF1680T		2	DC		
AT&T	53	53	3	RNH	Ericsson	RRUS-11		1	Fiber		
AT&T	53	53	3	Surge	Raycap	DC2-48-60-0-9E		1			
AT&T	53	53	1	Surge	Raycap	FC12-PC6-10E					

Proposed Loading

Antenna			Mount			Transmission Line			Attachment		
Antenna Owner	Mount Height (ft)	Antenna Cl. (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Model	Size	Attachment Leg/Face
AT&T	53	53	3	RRH	Ericsson	RRUS-12 + A2 Modules		4	DC		
AT&T	53	53	2	RRH	Ericsson	RRUS-32		1	Fiber		
AT&T	53	53	3	Surge	Raycap	FC12-PC6-10E					
AT&T	53	53	3	Surge	Raycap	DC2-48-60-0-9E					

Future Loading

Antenna			Mount			Transmission Line			Attachment		
Antenna Owner	Mount Height (ft)	Antenna Cl. (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Model	Size	Attachment Leg/Face

NOTE: THIS FORM MUST BE SAVED AS EXCEL 97-2003 TO UPLOAD IN SITERRA

Scala, Mary Joy

From: Rency Yeatts <R.Yeatts@velocitel.com>
Sent: Thursday, July 24, 2014 4:48 PM
To: Scala, Mary Joy
Subject: RE: 900 West MAin Street
Attachments: LTE 2C CV325 10068617 CHIMNEY HAMPTONINN.PROPOSAL.jpg; chimney.png

Importance: High

Mary Joy:

I have attached a couple of current pictures of the stealth design per your request. You will see that that I have manipulated one of the pictures to depict the proposed upgrade as related to the outside of the "chimney". That picture shows a current DC2 mounted below the parapet wall on brackets. This proposal will mount 2 additional boxes on the adjacent lower portion of the "chimney" by an identical mounting method effectively hiding the equipment from view.

I hope this will address your question(s) and please feel free to contact me should you require any additional information.

Kind regards,

Rency Yeatts
Senior Site Acquisition Specialist

Velocitel, Inc.
4144 Innslake Drive
Glen Allen, VA 23060
757-573-3129 Mobile
804-217-8665 Fax
r.yeatts@velocitel.net
www.velocitel.net

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From: Scala, Mary Joy [mailto:scala@charlottesville.org]
Sent: Thursday, July 24, 2014 3:51 PM
To: Rency Yeatts
Subject: 900 West MAin Street

Please confirm that all proposed work will be located inside the existing stealth chimneys. Drawing C3 shows what appears to be something mounted outside.

I need photos of the existing installations taken on the roof please.

Mary Joy Scala, AICP
Preservation and Design Planner
City of Charlottesville

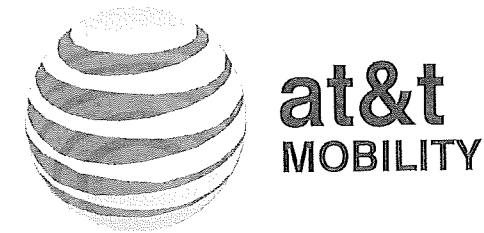




APPROVED
By Steve McCormick at 3:18 pm, Jul 17, 2014

Antenna System Upgrade Project

- LTE/2C
- INSTALL LTE AND GSM/UMTS ANTENNAS
- IMPROVE QUALITY OF SERVICE



AT&T MOBILITY
SITE NUMBER: CV325

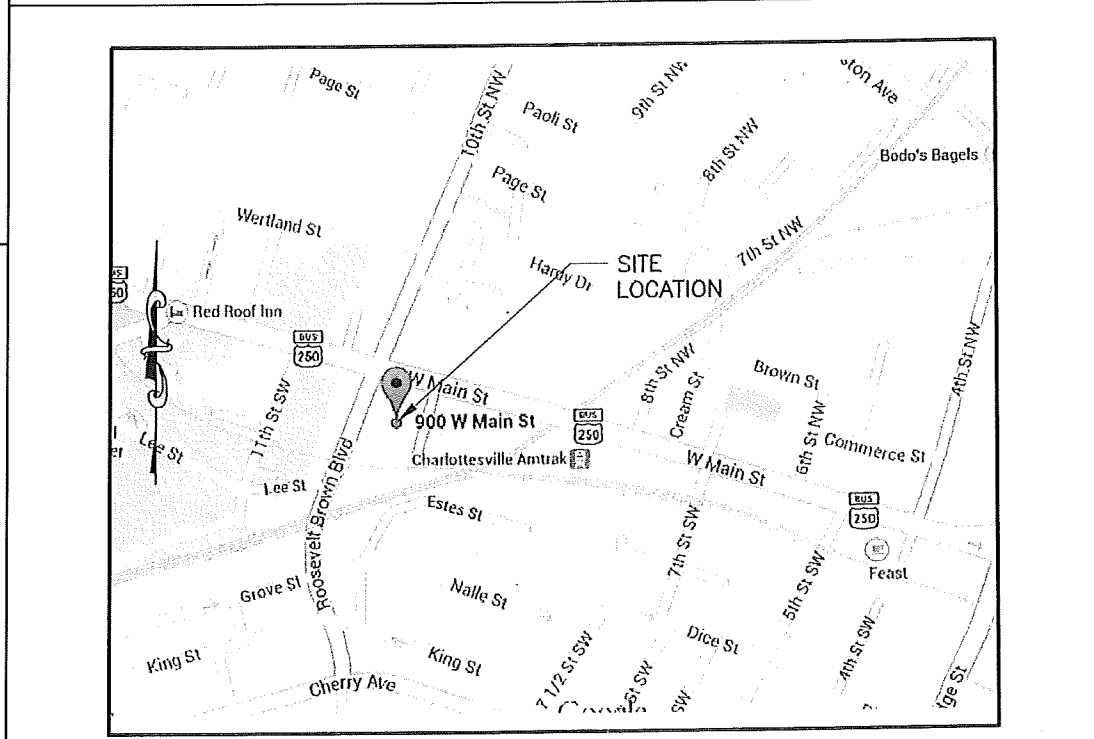
SITE NAME: HAMPTON INN - FA# 10068617
TOWER OWNER/SITE NO.: MIDTOWN HOSPITALITY LLC

SHEET	DRAWING INDEX	REV	DATE
T1	TITLE SHEET	0	07/17/14
C1	GENERAL NOTES	0	07/17/14
C2.1	SITE PLAN	0	07/17/14
C2.2	ENLARGED EQUIPMENT LAYOUT	0	07/17/14
C3	ELEVATION VIEW & RF DETAILS	0	07/17/14
C4	ANTENNAS/COAX CABLE SCHEMATIC	0	07/17/14
E1	GROUNDING & RF NOTES	0	07/17/14
E2	GROUNDING DETAILS & COLOR CODE CHART	0	07/17/14

DIRECTIONS:
FROM AT&T OFFICE, HEAD SOUTHWEST ON COX RD TOWARD N PARK DR. 0.2 MI TURN RIGHT ONTO NUCKOLS RD. 0.3 MI CONTINUE STRAIGHT TO STAY ON NUCKOLS RD. 0.3 MI MERGE ONTO I-295 N VIA THE RAMP TO I-64 W/CHARLOTTESVILLE. 0.4 MI FOLLOW I-64 W TO VA-20 N IN SCOTTSVILLE. TAKE EXIT 121 FROM I-64 W 57.5 MI / 49 MIN MERGE ONTO I-295 N 1.5 MI TAKE EXIT 53A TO MERGE ONTO I-64 W TOWARD CHARLOTTESVILLE 55.8 MI TAKE EXIT 121 FOR VA-20 TOWARD CHARLOTTESVILLE/SCOTTSVILLE. 0.2 MI CONTINUE ON VA-20 N. DRIVE TO W MAIN ST IN CHARLOTTESVILLE. 2.1 MI / 6 MIN TURN RIGHT ONTO VA-20 N 1.0 MI CONTINUE ONTO MONTICELLO AVE 0.5 MI TURN RIGHT ONTO RIDGE ST 0.1 MI TURN LEFT ONTO W MAIN ST

SITE INFORMATION	
SCOPE OF WORK:	ALL EXISTING ANTENNAS, RRU'S, TMA'S AND DC2'S SHALL BE REUSED. INSTALL NEW RRU'S, TRIPLEXERS, AND DC2'S.
SITE ADDRESS:	900 WEST MAIN STREET CHARLOTTESVILLE, VA 22903
OWNER:	MIDTOWN HOSPITALITY LLC
CONTACT PERSON:	RANDY RICHARDSON (434) 923-8600
APPLICANT:	AT&T MOBILITY 4801 COX ROAD, SUITE 300 GLEN ALLEN, VA 23060
LATITUDE (NAD 83):	38° 1' 55.38" (38.0320500)
LONGITUDE (NAD 83):	-78° 29' 39.66" (-78.4943500)
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
JURISDICTION:	CHARLOTTESVILLE CITY

VICINITY MAP

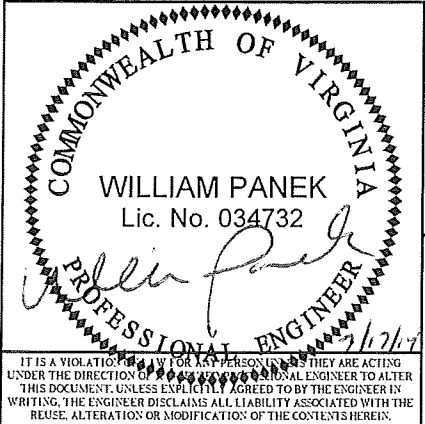


NOT TO SCALE

REVIEWED BY:	AT&T	DATE
	VELOCITEL	DATE
APPROVED BY:	OWNER	DATE
	MUNICIPAL	DATE

SITE QUALIFICATION PARTICIPANTS

	NAME	COMPANY	NUMBER
A/E	DAN COSTELLO	VELOCITEL	(315) 717-6547
SAC	RENCY YEATTS	VELOCITEL	(757) 573-3129
CM	STEVEN MCCORMICK	VELOCITEL	(804) 217-7088



4164 INNSLAKE DRIVE, SUITE B
GLEN ALLEN, VA 23060
(804) 217-7088 (MAIN)
(757) 401-6453 (FAX)

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

SITE NO. CV325
HAMPTON INN
FA# 10068617
900 WEST MAIN STREET
CHARLOTTESVILLE, VA 22903

NO.	DATE	REVISIONS	BY	CHK	APP'D	JOB #	DRAWING NUMBER	REV
0	07/17/14	ISSUED FOR CONSTRUCTION	WEG	DKC	-			
A	04/11/14	ISSUED FOR REVIEW	WEG	DKC	-			
						10068617	T1	0

TITLE SHEET

GENERAL NOTES:

1. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED).
2. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
3. NO NOISE, SMOKE, DUST, ODOR OR VIBRATIONS WILL RESULT FROM THIS PROPOSAL.
4. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
5. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AT&T SYSTEM GROUNDING STANDARD DATED JUNE 2011. "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES, "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
6. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION.
8. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
9. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND DRAWINGS PROVIDED BY THE SITE OWNER. SUBCONTRACTOR SHALL NOTIFY AT&T OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
10. NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING, IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
11. ALL SIGNS SHALL BE FURNISHED AND INSTALLED AT ALL AT&T WIRELESS SERVICES SITES IN ACCORDANCE WITH SPECIFICATION AT&T SYSTEM GROUNDING DATED JUNE 2011.
12. NO ADDITIONAL PARKING TO BE PROPOSED. EXISTING ACCESS AND PARKING TO BE USED.
13. NO LANDSCAPING IS PROPOSED AT THIS SITE.

TYPICAL MINIMUM BEND RADII		
COAX DIAMETER	ANDREW	COMMSCOPE
1/2" SUPERFLEX	1.25"	1.25"
1/2"	5"	2"
7/8"	10"	5"
1 1/4"	15"	8"
1 5/8"	20"	15"

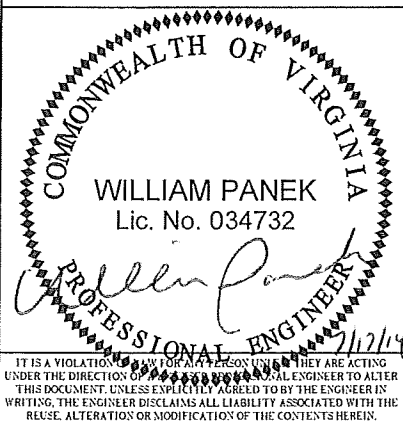
15. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - CONTRACTOR
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - AT&T WIRELESS
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
3. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE 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. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR AND SITE OWNER.
9. 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 OWNER.
10. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
11. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY & D) TRENCHING & EXCAVATION.
12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED 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.
13. 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.
14. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
15. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT.
18. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
19. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH OSHA REGULATIONS.
20. SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"φ) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.
6. ALL METAL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A123. ALL SHOP WELDED MEMBERS SHALL BE GALVANIZED AFTER WELDING.



4164 INNSLAKE DRIVE, SUITE B
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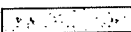

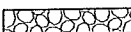
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REVISIONS				JOB #		DRAWING NUMBER		REV
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A	04/11/14		WEG	DKC				
SCALE:				DESIGNED:				
					10068617	C1		0

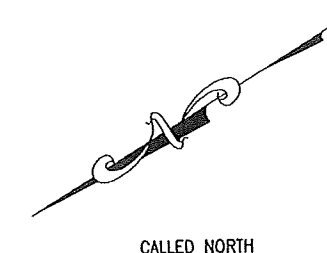
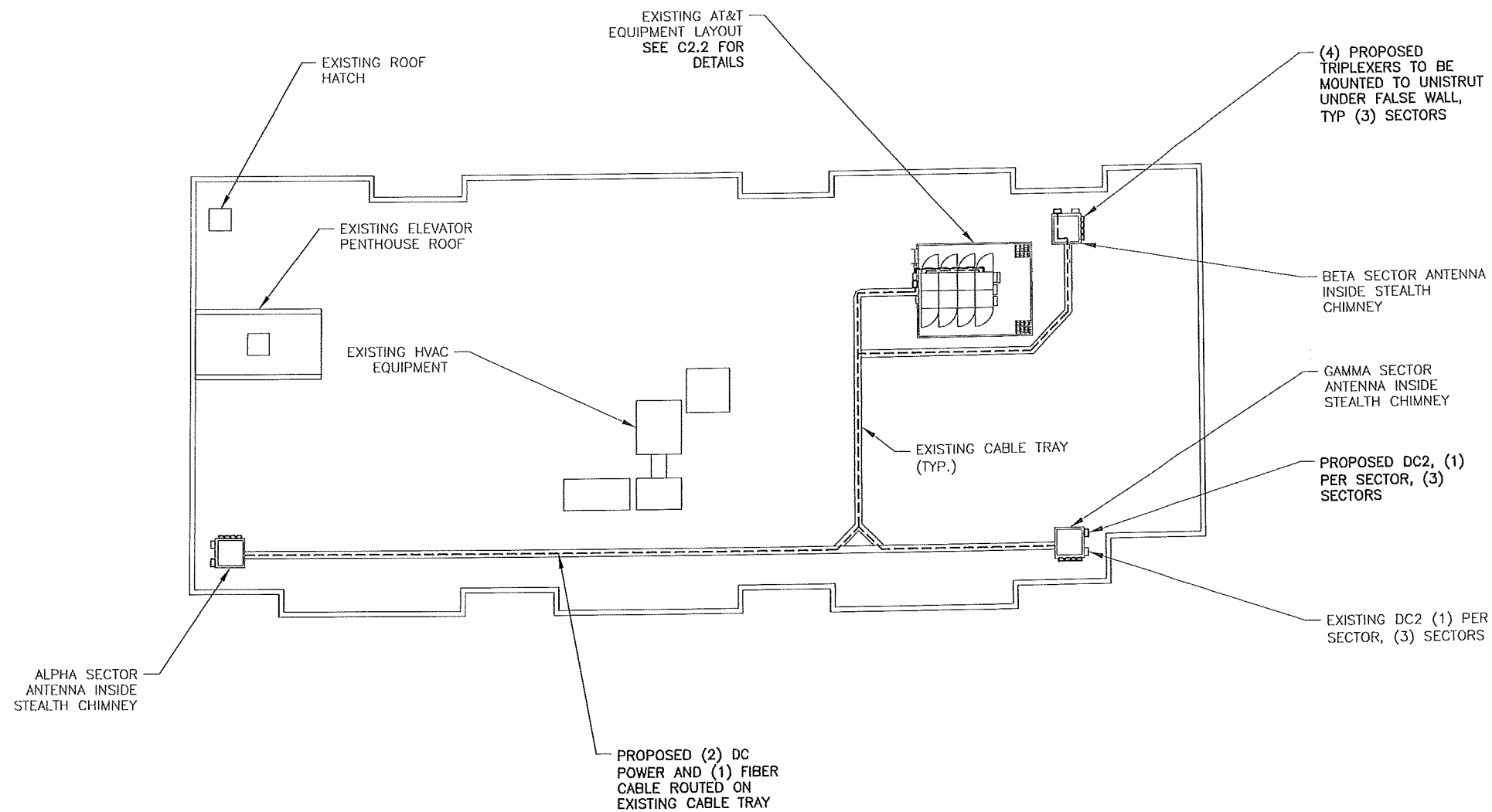
GENERAL NOTES

SYMBOLS AND MATERIALS

-  DETAIL REFERENCE
-  SECTIONS AND DETAILS
-  CONCRETE
-  EARTH
-  GRAVEL/STONE

SITE LEGEND

-  PROPERTY LINE
-  FENCE LINE
-  PDU POWER CABLE
-  BIAS "T" CABLE
-  PDU ALARM CABLE



SITE PLAN
SCALE: 1"=20'



COMMONWEALTH OF VIRGINIA
WILLIAM PANEK
Lic. No. 034732
PROFESSIONAL ENGINEER
2/1/14

IT IS A VIOLATION OF LAW FOR ANY PERSON WHOSE NAME IS LISTED HEREIN TO ACT AS AN ENGINEER OR ARCHITECT UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT. THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

velocitel
complete wireless solutions

4164 INNSLAKE DRIVE, SUITE B
GLEN ALLEN, VA 23060
(804) 217-7088 (MAIN)
(757) 401-6453 (FAX)

at&t
MOBILITY

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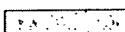


SCALE: DESIGNED: -

SITE PLAN


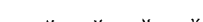
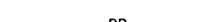


JOB #	DRAWING NUMBER	REV
10068617	C2.1	0

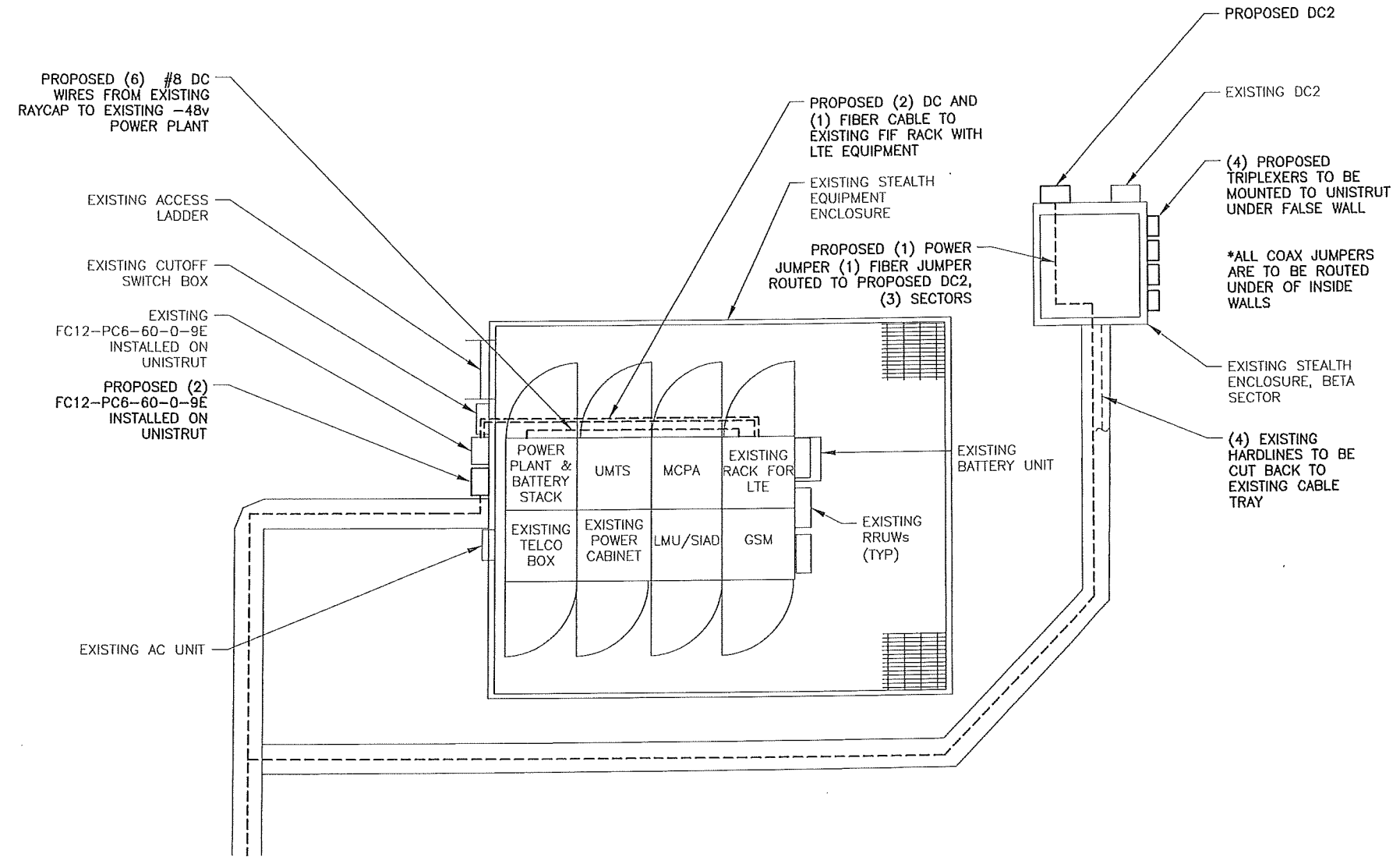
NOTE:
ALL PROPOSED CABLING TO BE
ROUTED IN EXISTING CABLE
LADDER WHERE POSSIBLE.

SYMBOLS AND MATERIALS

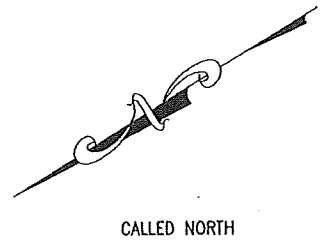
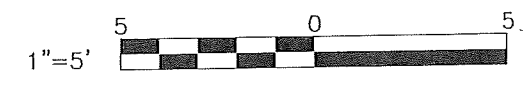
-  DETAIL REFERENCE
-  SECTIONS AND DETAILS
-  CONCRETE
-  EARTH
-  GRAVEL/STONE

SITE LEGEND

-  PROPERTY LINE
-  FENCE LINE
-  PDU POWER CABLE
-  BIAS "T" CABLE
-  PDU ALARM CABLE



ENLARGED EQUIPMENT LAYOUT 1
SCALE: 1"=5'



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ENLARGED EQUIPMENT LAYOUT		JOB #	DRAWING NUMBER	REV
SCALE:	DESIGNED:	10068617	C2.2	0

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A STRUCTURAL ANALYSIS OF THIS BUILDING WAS NOT PERFORMED BY VELOCITEL, INC. CONTRACTOR SHALL REFER TO STRUCTURAL ANALYSIS (IF APPLICABLE) AND COORDINATE INSTALLATION WITH THE SITE CONSTRUCTION MANAGER AND THE TOWER OWNER.

EXISTING EQUIPMENT CABINETS WITHIN STEALTH ENCLOSURE

EXISTING ANTENNA W/ PIPE MOUNT IN EXISTING ENCLOSURE TO BE REUSED FOR LTE 700, UMTS/GSM 1900, LTE AWS/WCS

30' LTE 700 UMTS 1900 GSM 1900

SECTOR ALPHA

(6) EXISTING TMAS, (2) PER SECTOR, (3) SECTORS TO BE REUSED

SECTOR BETA

(3) EXISTING ANTENNAS, (1) PER SECTOR, (3) SECTORS TO BE REUSED

30' LTE 700 UMTS 1900 GSM 1900 LTE AWS LTE WCS

SECTOR ALPHA

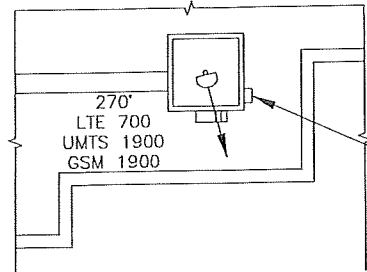
(12) PROPOSED TWIN TRI-BAND COMBINERS, (4) PER SECTOR, (3) SECTORS

(6) EXISTING TMAS, (2) PER SECTOR, (3) SECTORS RELOCATED

SECTOR BETA

(3) PROPOSED RRUS-12+A2, (1) PER SECTOR, (3) SECTORS MOUNTED TO ANTENNA PIPE MAST ABOVE EXISTING RRUS-11

(3) PROPOSED DC2, (1) PER SECTOR, (3) SECTORS



SECTOR GAMMA

(3) EXISTING DC2, (1) PER SECTOR, (3) SECTORS

(3) EXISTING RRUS-11, (1) PER SECTOR, (3) SECTORS TO BE REUSED

(3) EXISTING DC2, (1) PER SECTOR, (3) SECTORS

270' LTE 700 UMTS 1900 GSM 1900 LTE AWS LTE WCS

SECTOR GAMMA



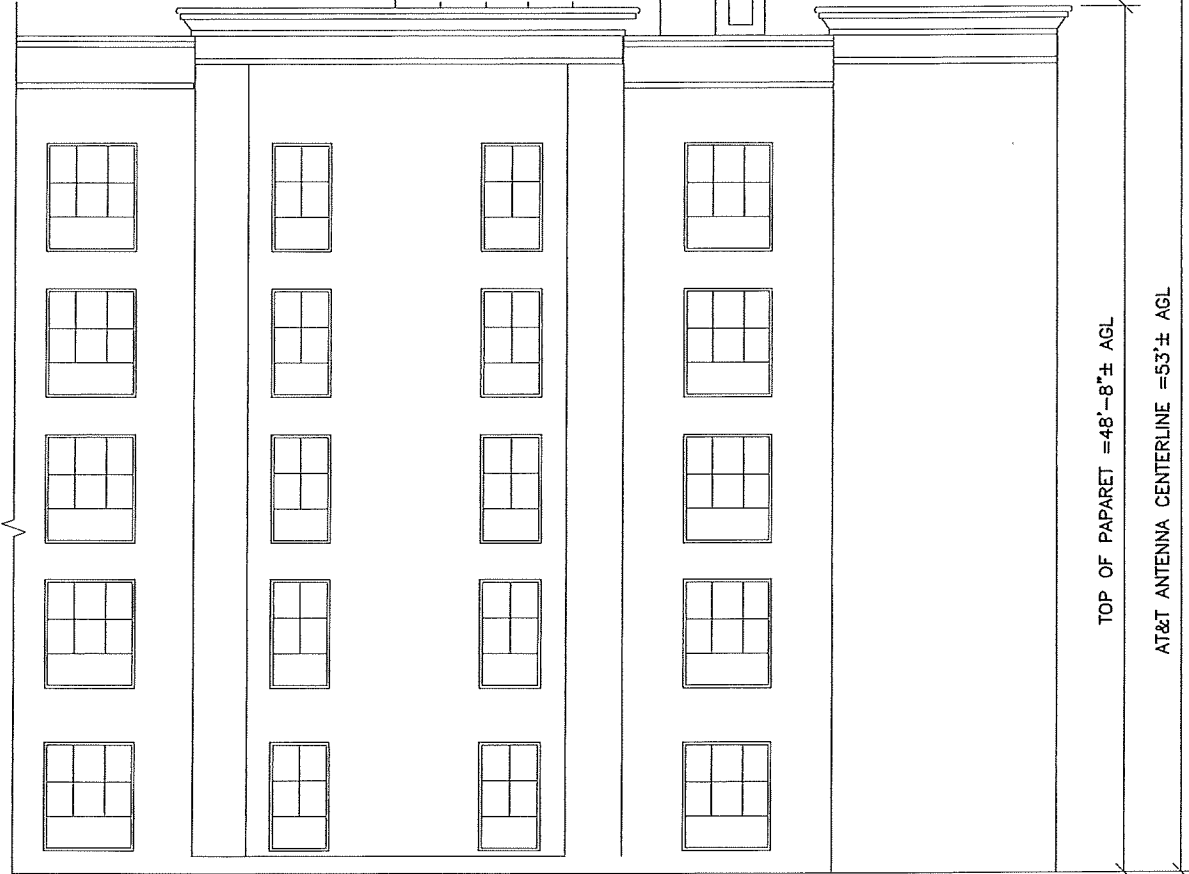
APPROXIMATE TRUE NORTH

EXISTING ANTENNA FRAME DETAIL 2
NOT TO SCALE



APPROXIMATE TRUE NORTH

PROPOSED ANTENNA FRAME DETAIL 3
NOT TO SCALE



PROPOSED BUILDING ELEVATION 1
NOT TO SCALE

TOP OF PAPARET = 48'-8" ± AGL
AT&T ANTENNA CENTERLINE = 53' ± AGL

PROPOSED ANTENNA CONFIGURATION AND CABLE SCHEDULE

SUPPLIED BY AT&T WIRELESS, FROM RF CONFIG DATED 3/10/2014, BY SHAUN PAUL

SECTOR	ANTENNA	ANTENNA HEIGHT	AZIMUTH	TMA/RRU	CABLE TYPE	CABLE LENGTH	DOWNTILTS
A	(1) P65-16-XLHH-RR1 (X)-LTE 700 UMTS 1900 GSM 1900 LTE AWS LTE WCS	53' ± AGL	30°	(1) RRUS-11 (X) (2) LGP18601 (X) (1) RRUS-12+A2 (N) (1) RRUS-32 (F)	(2) DC CABLE (X) (2) DC CABLE (N)	93' (X) 93' (N)*	4'(E) 0'(M) 2'(E) 2'(E) 4'(E) 4'(E)
B	(1) P65-16-XLHH-RR1 (X)-LTE 700 UMTS 1900 GSM 1900 LTE AWS LTE WCS	53' ± AGL	150°	(1) RRUS-11 (X) (2) LGP18601 (X) (1) RRUS-12+A2 (N) (1) RRUS-32 (F)	(1) FIBER CABLE (X) (1) FIBER CABLE (N) (12) COAX CABLE (X)	93' (X) 93' (N)*	2'(E) 0'(M) 2'(E) 2'(E) 2'(E) 2'(E)
G	(1) P65-16-XLHH-RR1 (X)-LTE 700 UMTS 1900 GSM 1900 LTE AWS LTE WCS	53' ± AGL	270°	(1) RRUS-11 (X) (2) LGP18601 (X) (1) RRUS-12+A2 (N) (1) RRUS-32 (F)			4'(E) 0'(M) 2'(E) 2'(E) 4'(E) 4'(E)

* INCLUDES SAFETY FACTOR OF 30 FT. (15 FT. AT BOTH ENDS OF CABLE RUN)

(N) = NEW
(X) = EXISTING
(F) = FUTURE
(E) = ELECTRICAL
(M) = MECHANICAL

ANTENNA AND CABLE CONFIGURATION DETAIL 4
NOT TO SCALE

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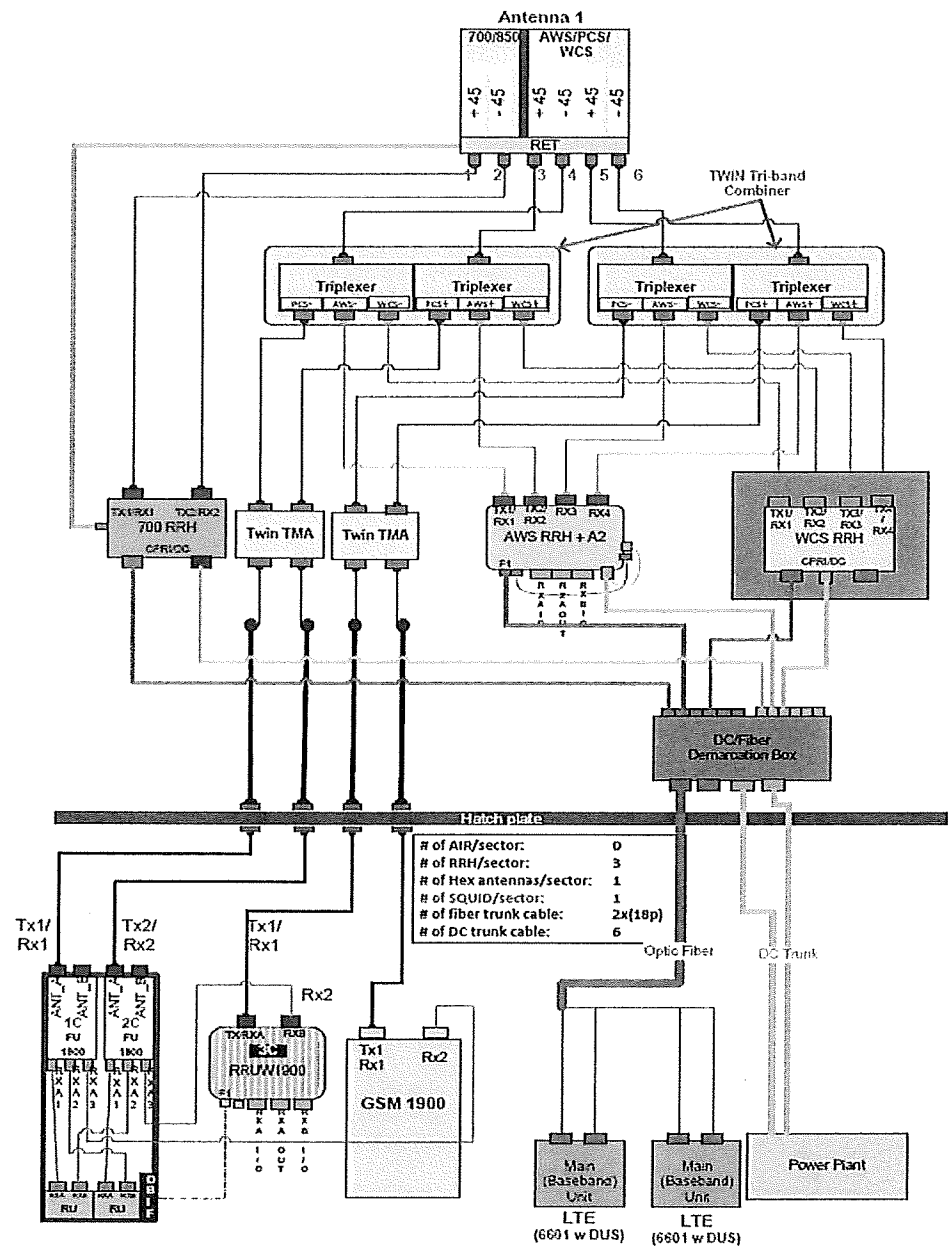
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SCALE: DESIGNED: -

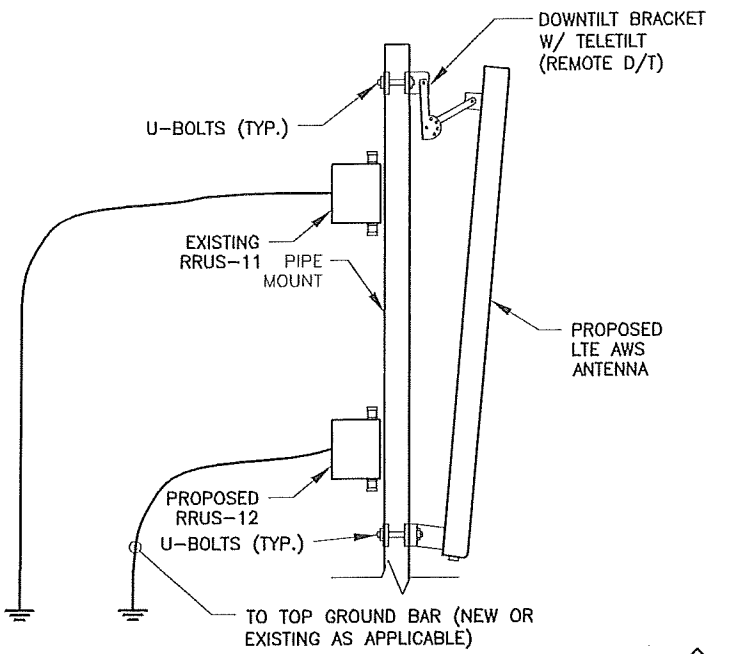
ELEVATION VIEW & RF DETAILS

JOB #	DRAWING NUMBER	REV
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NOTE:
CAP UNUSED PORTS
WITH 50 ohm LOADS

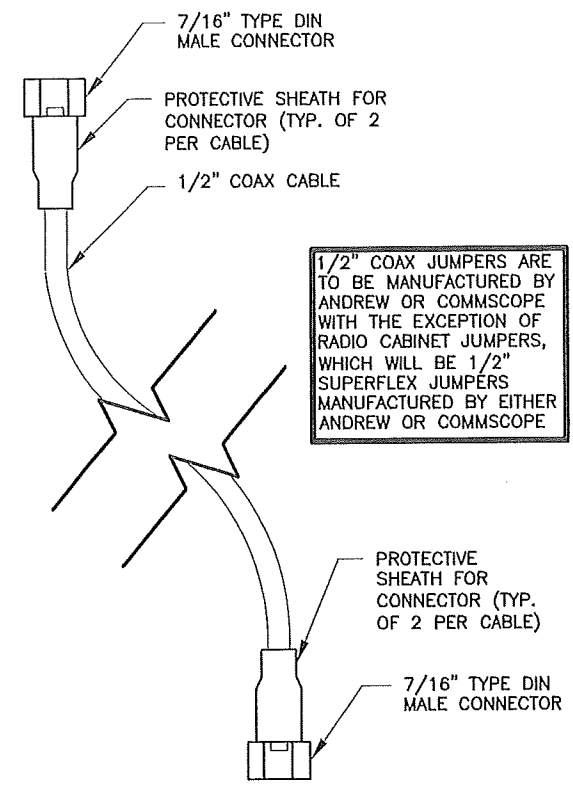


INSTALLATION SCHEMATIC
NOT TO SCALE



LTE AWS ANTENNA PIPE MOUNT
NOT TO SCALE

NOTE: RRUS-12 LOCATION MAY VARY. CONTRACTOR TO VERIFY FINAL MOUNTING LOCATION AND METHODS W/ SITE CM PRIOR TO INSTALLATION.



1/2" COAX JUMPER DETAIL
NOT TO SCALE

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SCALE: DESIGNED: -

**ANTENNA/COAX
CABLE SCHEMATIC**

JOB #	DRAWING NUMBER	REV
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GENERAL NOTES

1. INSPECTIONS

- A. GENERAL: DURING AND UPON COMPLETION OF THE WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT. INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REQUIREMENTS, AND THE LATEST EDITION OF NEC, NFC, NEMA, OSHA, SBC, AND UL.
- B. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.
- C. INSPECTION AGENCY: APPROVED BY THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.
- D. CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CERTIFICATES.

2. HANGERS AND SUPPORTS

- A. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE STAINLESS STEEL OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY, AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.
- B. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC. AS INDICATED OR REQUIRED.
- C. INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIALS, RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUITABLE FOR THE USE, MATERIALS AND LOADS ENCOUNTERED. PROVIDE ALL NECESSARY HARDWARE. PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C.
- D. STRUCTURAL MEMBERS: DO NOT CUT, DRILL, OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.
- E. MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.
- F. ONE HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

3. ENCLOSURES

- A. NEMA 3R

4. HOLES, SLEEVES AND OPENINGS

GENERAL: PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL SURFACES DAMAGED TO MATCH SURROUNDING SURFACES.

5. CUTTING AND PATCHING

- A. GENERAL: PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES ANY AND ALL WORK NECESSARY TO: UNCOVER WORK TO PROVIDE FOR THE INSTALLATION OF ILL TIMED WORK, REMOVE AND REPLACE DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- B. REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS, USING SKILLED MECHANICS OF THE TRADES INVOLVED.

6. RACEWAY SYSTEMS

- A. ALL ABOVE GRADE CONDUIT AND ALL CONDUIT ELBOWS SHALL BE RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE.

7. CONDUCTORS

USE 98% CONDUCTIVITY COPPER WITH TYPE XHHW-2 INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG, STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8. USE PRESSURE-TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.

8. GROUNDING SYSTEM

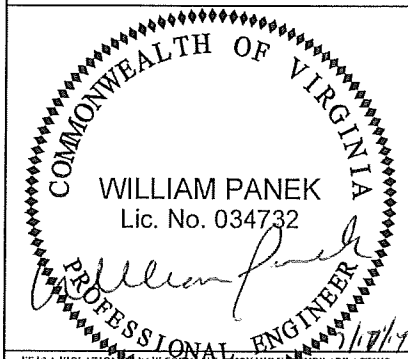
- A. INSTALLATION: INSTALL AS REQUIRED SPECIFICATION. CONTRACTORS REPRESENTATIVE WILL INSPECT EXOTHERMIC WELDS AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED, WHEN MORE THAN (4) ADDITIONAL GROUNDS ARE REQUIRED, VERIFY OHM LEVEL PRIOR TO CONSTRUCTION. USE CLEAN SAND AND CLAYBACKFILL FOR BURIED GROUND CONDUCTORS

9. CHECKOUT, TESTING AND ADJUSTING

- A. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CAPACITY.
- B. POWER CONDUCTORS: CONTRACTOR SHALL CONDUCT A CONTINUITY & INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH & POWER CABINET.
- C. WHEN SITE POWER IS DERIVED FROM 3 PHASE SOURCE, LOAD READINGS WILL BE TAKEN AND RECORDED TO MAINTAIN A BALANCED LOAD AT THE PRIMARY SOURCE. RECORDS SHALL BE TURNED IN TO THE OWNER'S REPRESENTATIVE.

RF NOTES:

- 1. ACTUAL LENGTHS SHALL BE DETERMINED PER SITE CONDITION BY SUBCONTRACTOR.
- 2. THE DESIGN IS BASED ON RF DATA SHEETS, SIGNED AND APPROVED.
- 3. RADIO SIGNAL CABLE AND RACEWAY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA 70), CHAPTER 8.
- 4. ALL SPECIFIED MATERIAL FOR EACH LOCATION (E.G. OUTDOORS-OCCUPIED, INDOORS-UNOCCUPIED, PLENUMS, RISER SHAFTS, ETC.) SHALL BE APPROVED, LISTED, OR LABELED AS REQUIRED BY THE NEC.
- 5. RADIO SIGNAL CABLE SHALL BE SUPPORTED AT MINIMUM OF EVERY THREE (3) FEET EXCEPT INSIDE MONOPOLES OR LATTICE TOWERS WHERE CABLE AND CONNECTOR MANUFACTURER'S SUPPORT RECOMMENDATIONS SHALL BE FOLLOWED. RF JUMPERS SHALL BE SUPPORTED AT A MAXIMUM OF TWO (2) FEET INTERVALS AND WITHIN 18" OF CONNECTORS. MANUFACTURER RECOMMENDED CABLE SUPPORT ACCESSORIES SHALL BE USED.
- 6. THE OUTDOOR CABLE SUPPORT SYSTEM SHALL BE PROVIDED WITH AN ICE SHIELD TO SUPPORT AND PROTECT ANTENNA CABLE RUNS.
- 7. DRIP LOOPS SHALL BE REQUIRED ON ALL OUTSIDE CABLES. CABLES SHALL BE SLOPED AWAY FROM BUILDING OR OUTDOOR BTS CABINETS TO PREVENT WATER FROM ENTERING THROUGH THE COAXIAL CABLE PORT.
- 8. ALL FEEDER LINE AND JUMPER CONNECTORS SHALL BE 7/16 DIN CABLE CONNECTORS THAT MEET IP68 STANDARDS.
- 9. 7/16 DIN CONNECTORS REQUIRE NO ADDITIONAL WEATHER PROOFING IN INDOOR APPLICATIONS IF INSTALLED AND TORQUED PROPERLY. IN OUTDOOR APPLICATIONS, WEATHER PROOFING IS REQUIRED AND THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED.
- 10. USING WEATHERPROOFING KIT APPROVED BY CABLE MANUFACTURER AND CONTRACTOR, START TAPE APPROXIMATELY 5 INCHES FROM THE CONNECTOR AND WRAP 2 INCHES TOWARD THE CONNECTOR, THEN REVERSE THE TAPE SO THAT THE STICKY SIDE IS UP. TAPE OVER THE CONNECTOR OR SURGE ARRESTOR UNTIL THREE (3) TO FOUR (4) INCHES BEYOND THE CONNECTOR AND REVERSE AGAIN WITH THE STICKY SIDE DOWN FOR ANOTHER INCH OR TWO. ADD THE BUTYL RUBBER AND FINISH WITH A FINAL LAYER OF TAPE.
- 11. ANTENNAS AND COAX SHALL BE PAINTED, WHEN REQUIRED, BY THE LANDLORD OR AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH ANTENNA MANUFACTURERS' SURFACES' PREPARATION AND PAINTING REQUIREMENTS.
- 12. CABLE SHIELDS, AND TOWER CONDUITS SHALL BE GROUNDED AT THE TOP OF THE TOWER, WITHIN 10 FEET OF THEIR CONNECTORS, AND AT THE BOTTOM OF THE TOWER ABOUT 6 INCHES BEFORE THEY TURN TOWARD THE FACILITY. THEY SHALL BE GROUNDED AT THE MIDPOINT OF THE TOWERS THAT ARE BETWEEN 100 FEET AND 200 FEET HIGH, AND AT INTERVALS OF 100 FEET OR LESS ON TOWERS THAT ARE HIGHER THAN 200 FEET.
- 13. APPROVED GROUNDING KITS, WHICH INCLUDE GROUNDING STRAPS, SHALL BE USED TO GROUND THE COAXIAL CABLE SHIELDS, AND CONDUITS. THE GROUND CONDUCTORS FOR THE KITS AT THE TOP OF THE TOWER, AND IN THE MIDDLE SECTION OF THE TOWER, ARE BONDED DIRECTLY TO GROUND BAR USING EXOTHERMIC OR COMPRESSION CONNECTIONS.
- 14. ALL RADIO SIGNAL CABLE SHALL BE LABELED PER MARKET REQUIREMENTS.
- 15. ANTENNA FEED LINE SYSTEM SWEEP TESTING SHALL BE PERFORMED AND REPORTED IN ACCORDANCE WITH CARRIER REQUIREMENTS. CONTRACTOR WILL NOT ACCEPT A RADIO SIGNAL CABLE INSTALLATION WITH UNSATISFACTORY SWEEP TEST RESULTS. THERE SHALL ALSO BE A HARD COPY OF SWEEPS LEFT AT SITE UPON COMPLETION OF SWEEP TEST.



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GROUNDING & RF NOTES

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10068617	E1	0

