



County of Fairfax, Virginia

MEMORANDUM

DATE: December 7, 2009

TO: David Marshall, Chief
Facilities Planning Branch, Planning Division, DPZ

FROM: Kevin Guinaw, Chief *Kevin Guinaw*
Special Projects/Applications Management Branch, Zoning Evaluation Division, DPZ

SUBJECT: Proposed Verizon Telecommunications Facility at 12700 Popes Head Road;
Tax Map 66-4 ((3)) 1; 2232 Application FS-S09-164

This is in response to a request for a determination as to whether the telecommunications facility proposed by Verizon would be in substantial conformance with the development conditions approved by the Board of Supervisors in conjunction with the approval of Special Exception Amendment SEA 89-S-072 (to permit a telecommunications facility and site modifications for a previously approved electrical substation). As described in the 2232 application dated October 23, 2009, revised December 1, 2009, from Stephanie Petway, agent for the applicant, twelve (12) panel antennas (six measure 71 inches high x 11.2 inches wide x 4.5 inches deep; three measure 72 inches high x 14.6 inches wide x 8 inches deep; three measure 69.1 inches high x 6.7 inches wide x 4.1 inches deep) are proposed to be mounted at a height of 112 feet on an existing 140-foot tall tree monopole. In addition, one (1) equipment shelter (10 feet high x 12 feet wide x 23.2 feet deep) is proposed for installation within the fenced equipment compound. A copy of the 2232 application with illustrations of the proposed locations of the telecommunications equipment is attached.

The Zoning Administration Division has determined that a telecommunications facility, as described above, is a permitted use pursuant to the provisions of Sect. 2-514 of the Zoning Ordinance provided that it is determined to be in substantial conformance with any applicable special exception. SEA 89-S-072 Development Condition #13 limits the number of antennas to 54 and limits the size, location and configuration of the antennas to that depicted on the approved Plat. It is my determination that the proposed telecommunications facility described above is in substantial conformance with SEA 89-S-072 provided that the total number and size of antennas is not exceeded. Please note that this proposal is subject to 2232 review requirements and that Cricket's ability to proceed is dependent upon the pending 2232 being approved by the Fairfax County Planning Commission. This determination has been made in my capacity as the duly authorized agent of the Zoning Administrator. If you have any questions regarding this memorandum, please call Carrie Lee at (703) 324-1290.

KG/CDL/O:\clec01\ActionAssignments\Antennas\12700 Popes Head Rd_treepole\12700 Popes Head Rd_Verizon.doc

Attachments: A/S

cc: Pat Herry, Supervisor, Springfield District
Peter F. Murphy, Jr., Planning Commissioner, Springfield District
Regina C. Coyle, Director, Zoning Evaluation Division, DPZ
Diane Johnson-Quinn, Deputy Zoning Administrator, Zoning Permit Review, ZAD, DPZ
Stephanie Petway, Network Building & Consulting, 7380 Coca Cola Drive, Suite 106, Hanover, MD 21076
File: SEA 89-S-072, ANT 0910 095, **Imaging**, Reading File



County of Fairfax, Virginia

MEMORANDU

TO: Lorrie Kirst, Deputy Zoning Administrator, ZAD
Other: _____

FAIRFAX COUNTY
RECEIVED

DATE: 10-23-09

FROM: David B. Marshall, Chief
Facilities Planning Branch, DPZ

OCT 26 2009
2009-0638
DIVISION OF
ZONING ADMINISTRATION

RECEIVED
Department of Planning & Zoning
OCT 27 2009
Zoning Evaluation Division

SUBJECT: Request for Review: 2232 Application

RE: Application Number: FS-509-164 Tax Map: 66-4(3)1

Attached for your review and comment is a 2232 Review application:

RECEIVED FROM: Verizon Wireless
PROPOSED USE: Trepole collocation
LOCATION OF USE: 12700 Pops Head Rd, Clifton
ADDITIONAL COMMENTS: _____

Please send your comments to David Marshall by: 11 / 6 / 09
Staff Coordinator: Connie Maier Phone: 703-324-1263

**ZAD COMMENTS:

Property is zoned R-C
____ Proposed use is permitted by Zoning Ordinance and meets all zoning requirements.
____ Proposed use does not meet all Zoning requirements as follows:

See attached

Referred to ZED for the following: Must be in substantial conformance with
ZAD comments prepared by: LKIRST Date: 10-27-09 SEA 89-5-072

**ZED COMMENTS:

____ Proposed use is in substantial conformance with all development conditions and/or proffers.
____ Proposed use is not in substantial accord with all development conditions and proffers.

**ZED comments prepared by: _____ Date: _____

Department of Planning and Zoning
Planning Division
12055 Government Center Parkway, Suite 730
Fairfax, Virginia 22035-5509
Phone 703-324-1380
Fax 703-324-3056
www.fairfaxcounty.gov/dpz/



Kirst, Lorrie

From: Kirst, Lorrie
Sent: Tuesday, October 27, 2009 9:10 AM
To: Maier, Constance A.
Subject: FS-S09-164

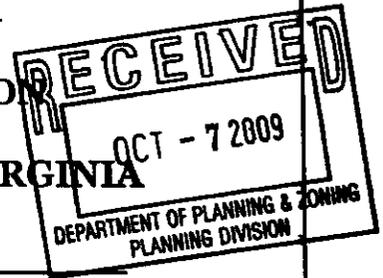
3-S09-164
2700 Popes Head Road
ax Map 66-4 ((3)) 1
oning District: R-C

lets Par 1. fo Sect. 2-514 of the Zoning Ordinance. The site is subject to SEA 89-S-072 and the proposal must be in substial conformance with that approval. It is noted that the SE development conditions allow a 10 foot chain link fence, require specific landscaping and limit the number of antennas mounted on the treepole to a maximum of 54.

refer to ZED

10/27/2009

COUNTY OF FAIRFAX, VIRGINIA
APPLICATION FOR DETERMINATION
PURSUANT TO
SECTION 15.2-2232 OF THE CODE OF VIRGINIA



Application Number: FS-509-1104
(assigned by staff)

The application contains three parts: I. Application Summary; II. Statement of Justification; and III. Telecommunication Proposal Details. Please do not staple, bind or hole-punch this application. Please provide at least one copy of all pages, including maps and drawings, on 8.5 x 11 inch paper.

(Please Type or Print All Requested Information)

PART I: APPLICATION SUMMARY

ADDRESS OF PROPOSED USE

Street Address 12700 Popes Head Road

City/Town Springfield Clifton Zip Code 20124

APPLICANT(S)

Name of Applicant Verizon Wireless

Street Address 9000 Junction Drive

City/Town Annapolis Junction State MD Zip Code 20710

Telephone Number: Work (240) 401-0907 Fax ()

E-mail Address spetway@nbcllc.com

Name of Applicant's Agent/Contact (if applicable) 240-401-0907 Stephanie M. Petway

Agent's Street Address 7380 Coca Cola Drive Suite 106

City/Town Hanover State MD Zip Code 21076

Telephone: Work (240) 401-0907 Fax ()

PROPOSED USE

Street Address 12700 Popes Head Road

Fairfax Co. Tax Map and Parcel Number(s) 0664 03 0001

Brief Description of Proposed Use _____

Telecommunication facility: Placement of 12 antennas on existing tree monopine. Verizon Wireless proposes to locate a total of 12 antennas at 112 feet on existing 140 monopine pole. Near the base of the monopine, Verizon will install one 12'x23'.2"x10' shelter which will be enclosed within a 10 feet chain link fence.

Total Area of Subject Parcel(s) 4,8132 acres (acres or square feet)

Portion of Site Occupied by Proposed Use 240 square feet (acres or square feet)

Fairfax County Supervisor District Springfield

Planned Use of Subject Property (according to Fairfax County Comprehensive Plan)

Zoning of Subject Property R-C

List all applicable Proffer Conditions, Development Plans, Special Exceptions, Special Permits or Variances previously approved and related to this site

SE 89-S-072, SEA 80-S-072, SP 90-S-011

PROPERTY OWNER(S) OF RECORD

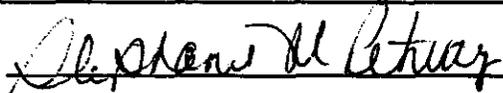
Owner Northern Virginia Electric Cooperative

Street Address PO BOX 2710

City/Town Manassas State VA Zip Code 20108

PART II, entitled "Statement of Justification," pages 4 through 6, shall be completed by all applicants and included as part of the application. **PART III**, entitled "Telecommunication Proposal Details," pages 7 through 9, also shall be completed and included for all proposed telecommunication uses.

Name of Applicant or Agent Stephanie M. Petway

Signature of Applicant or Agent 

Date 9/30/2009

Please do not staple, bind or hole-punch this application. Please provide at least one copy of all pages, including maps and drawings, on 8.5 x 11 inch paper.

Submit completed application to:

**Fairfax County
Department of Planning and Zoning, Planning Division
Herrity Building
12055 Government Center Parkway, Suite 730
Fairfax, Virginia 22035**

FOR STAFF USE ONLY

Date application received: 10/7/09

By: 

Additional information requested to complete application:

Date application accepted: / /

By: _____

PART III: TELECOMMUNICATION PROPOSAL DETAILS

Please complete and provide all requested information. If question is not applicable to the proposed use, please indicate with N/A.

PROPOSED TELECOMMUNICATION USE

Use is (check one):

- New structure (monopole, tower or camouflaged facility)
- Replacement of existing pole or tower at same location with another pole or tower
- Antenna placement on building or penthouse facade
- Antenna placement on building or penthouse rooftop
- Collocation on other existing telecommunications structure (monopole or tower)
- Collocation on other non-telecommunications structure (such as an electric transmission tower/pole, utility pole, water tower, etc.)
- Modification to telecommunications facility previously approved for same applicant:
Prior 2232 Review application number: _____
Date of Planning Commission approval: _____

PROJECT DETAILS

1. ANTENNA

Number and Type: three - SY - BXA 7000316CF - 71" x 11.2" x 4.5"
Dimensions: height 6.1" width 6.7" depth 4.1" diameter Three VPA-60
Location / Placement: on existing 140 monopine pole
Wattage: 500 W
Material and Color: aluminium alloy-painted to match
Material and Color of the Antenna Mounting: steel-painted to match pole
Height Above Ground: 119 feet

2. EQUIPMENT

Number and Type of Cabinets or Structures: 1 equipment shelter
Cabinet / Structure Dimensions: height 10' width 12' depth 23'2"
Height of equipment platforms, if any: n/a
Material and Color: aggregate stone
Location: near base of existing monopine
Method of Screening: 10' chain link fence & existing tree are along front of property

3. STRUCTURE ON WHICH ANTENNAS WILL BE MOUNTED

Maximum Height: 140 feet
Material: steel
Color: monopine- resembles pine tree
If structure is within a utility right-of-way, state right-of-way width:
n/a

November 30, 2009

Mr. James. P Zook, Director
Fairfax County Office of Comprehensive Planning
12055 Government Center Parkway
7th Floor
Fairfax, Virginia 20035-5505

RE: Request for Determination under Virginia Code Sec. 15.2-2232
Verizon Wireless
Site Name: Clifton
Address: 12700 Popes Head Road (Milestone Treepole)
Tax Map No: 0664-03-0001

Dear Mr. Zook:

Verizon Wireless , an FCC-Licensed wireless telecommunication service provider, respectfully requests that the Planning Commission of Fairfax County Virginia, make a determination pursuant to Sec. 15.2-2232 of the Code of Virginia that Verizon's proposal add 12 antennas to existing 140 feet monopine equipment shelter near base of pole, is substantially in accord with the Fairfax County Comprehensive Land Use Plan and find that in accordance with Objective 44, the proposed facility is a feature shown of the Plan. Verizon Wireless' FCC license covers the Greater Washington and Baltimore areas, including Fairfax County, Virginia.

Applicant:
Verizon Wireless
9000 Junction Drive
Annapolis Junction, Maryland 20701
Tel: 301-512-2000
Fax: 301-512-2186

Site Location:
Address: 12700 Popes Head Road, Springfield, VA
Tax Map No. 0664-03-0001
Zoning District: R-C4
Existing Use: NOVEC Substation with 140 treepole on property

Supervisor District: Springfield

DESCRIPTION OF PROPOSED USE:

As shown on the attached plans, Verizon proposes to add 12 antennas at 112 feet on an existing 140 feet stealth treepole. There will be three sectors, of four (4) antennas. Each sector will have two antennas, approximately 71"x11.2" x 4.5", one antenna 71"x11.2"x4.5" and one antenna 69.1"x6.7" x4.1" in size. The proposed antennas and its mounting brackets will be covered by stealth "tree branches" and painted to match. Currently there are a total of twelve antennas with one microwave antenna mounted on the treepole. Near the base of the tower, an equipment shelter will be placed within a 10 feet chain link fence and existing landscaping located at the front the property.

The proposed facility will be unmanned. It will operate 24 hours a day, 365 days a year. The facility will only require periodic visits to the site for routine maintenance and occasional emergency repairs.

REQUIREMENTS FOR PROPOSED USE:

The proposed facility is a vital component of Verizon's area-wide wireless communication network. The proposed antenna bring much need service to the area and will help Verizon to keep up with demands for Verizon Wireless' service in that area. The facility, as proposed will allow the Verizon Wireless to upgrade its seamless coverage and signal strength to residential and commercial customers in the area, along with those living and traveling in the immediate surrounding areas. The proposed antennas at this site will help satisfy the coverage and capacity demands of this area by utilizing an existing facility, and thereby eliminating the need for a new structure.

ANTICIPATED IMPACTS ON ADJOINING PROPERTIES:

The proposed facility will have little or no impact on adjoining properties, with respect to traffic, noise, light, pollution, and air and water quality. Utilizing an existing structure will create little to no adverse impact on the surrounding properties.

RELATIONSHIP OF THE PROPOSAL TO THE COMPREHENSIVE PLAN:

The proposed facility is consistent with and furthers the goals of the Fairfax County Comprehensive Land Use Plan ("Plan"). The location, character and extent of the application should be found in substantial accord with the Plan. In terms of location, property that contains existing telecommunication uses is encouraged for site development.

The extent of the proposed facility should be in substantial accord with Plan as well. The facility poses no encroachment on any existing easements or services, and the antenna mounting height is the minimum necessary to achieve the site's coverage and capacity goals and needs for the area.

The application is also consistent with objectives found under the Policy Plan of Comprehensive Plan concerning "Mobile and Land-Based Telecommunication Services" as demonstrated below:

GENERAL GUIDELINES:

Objective 42:

In order to provide for the mobile and land based telecommunication network for wireless telecommunication systems licensed by the Federal Communications Commission and in order to achieve opportunities for the collocation of related facilities and the reduction of their visual impact, locate the network's necessary support facilities which include antennas, monopoles, lattice towers and equipment buildings in accordance with the following policies;

Policy a. Avoid the construction of new structures by locating mobile and land based telecommunication facilities on available existing structures such as building rooftops, telecommunication and broadcast poles and towers, electrical utility poles and towers, and water storage facilities when telecommunication facilities can be placed inconspicuously to blend with such existing structures.

By collocating on an existing stealth treepole, Verizon Wireless has avoided building a new structure, furthering this Plan objective.

Policy f. Ensure that the height of the towers and monopoles has the least visual impact and is no greater than required to achieve service area requirements and potential collocation, when visually appropriate.

The height of the proposed antennas is the minimum height necessary to achieve its coverage objectives and capacity demands for the area.

CONCLUSION:

Because this application is in substantial conformance with the Fairfax County Comprehensive Land Use Plan, Verizon respectfully requests that the Planning Commission issue a determination that the proposed telecommunication facility serving Fairfax County is a Feature Shown of the Comprehensive Plan. Please do not hesitate to contact me with any questions or concerns regarding this application.

Stephanie M. Petway
Network Building & Consulting
Consultant to Verizon Wireless
240-401-0907
spetway@nbcllc.com

MAP #: 0664 03 0001
NORTHERN VIRGINIA

12700 POPES HEAD RD



Aerial Imagery © 2007 Commonwealth of Virginia

Source: Fairfax County Department
of Tax Administration, Real Estate Division.

MAP #: 0664 03 0001
NORTHERN VIRGINIA

12700 POPES HEAD RD

Owner

Name NORTHERN VIRGINIA, ELECTRIC COOPERATIVE
Mailing Address P O BOX 2710 MANASSAS VA 20108
Book 07650
Page 0391

Parcel

Property Location 12700 POPES HEAD RD
Map # 0664 03 0001
Tax District 80000
District Name SPRINGFIELD
Land Use Code Vacant Land
Land Area (acreage) 4.8132
Land Area (SQFT)
Zoning Description RC(Res Conservation 1DU/5AC)
Utilities WATER NOT AVAILABLE
SEWER NOT AVAILABLE
GAS NOT AVAILABLE
County Historic Overlay District NO
For further information about Historic Overlay
Districts, Click here
Street/Road UNPAVED
Site Description NON-BUILDABLE-NO PERC-NO SEWER

Legal Description

Legal Description BRADDOCK WOODS
LT 1 SEC 3
ASSESSED BY SCC

Sales History

Date	Amount	Seller	Buyer
08/15/1990	\$135,000		NORTHERN VIRGINIA
01/05/1987	\$23,500		

Sales

Date	08/15/1990
Amount	\$135,000
Seller	
Buyer	NORTHERN VIRGINIA
Notes	Duress (liquidation, forced sale, etc.)
Deed Book and Page	07650-0391

1 of 2

Values

Current Land \$0
Current Building \$0
Current Assessed Total \$0
Tax Exempt NO
Note PARCEL IS ASSESSED BY THE STATE CORP
COMMISSION

Values History

Tax Year	Land	Building	Assessed Total	Tax Exempt
2009	\$0	\$0	\$0	NO
2008	\$0	\$0	\$0	NO
2007	\$0	\$0	\$0	NO

2006	\$0	\$0	\$0	NO
2005	\$0	\$0	\$0	NO
2004	\$0	\$0	\$0	NO
2003	\$0	\$0	\$0	NO
2002	\$0	\$0	\$0	NO
2001	\$0	\$0	\$0	NO
2000	\$0	\$0	\$0	NO

Structure Size

Above Grade Living Area Total
Sq. Ft
Basement Garage # Cars

General Information

Need Help?

For questions and requests for information about the Real Estate site, call 703-222-8234 or [CLICK HERE](#)

Disclaimer

Under Virginia State law these records are public information. Display of this information on the Internet is specifically authorized by Va. Code 58.1-3122.2 (1998). See the Virginia State Code to read the pertinent enabling statute.

If you believe any data provided is inaccurate or if you have any comments about this site, we would like to hear from you. Owner names will be withheld from the Internet record upon request. Comments or requests may be made via e-mail to the Real Estate Division at [Real Estate Division](#) or by phone at (703) 222-8234.

While Fairfax County has attempted to ensure that the data contained in this file is accurate and reflects the property's characteristics, Fairfax County makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability of this data. Fairfax County does not assume any liability associated with the use or misuse of this data.

Last Refresh Date

Data last refreshed: 01-OCT-09

Source: Fairfax County Department
of Tax Administration, Real Estate Division.

Slant $\pm 45^\circ$ Dual Polarized FET Panel 63° / 14.5 dBd 696-900 MHz

Mechanical specifications

Length	1804 mm	71.0 in
Width	285 mm	11.2 in
Depth	114 mm	4.5 in
Depth with z-bracket	154 mm	6.1 in
Weight ⁴⁾	7.9 kg	17.0 lbs
Wind Area Fore/Aft	0.51 m ²	5.5 ft ²
Wind Area Side	0.21 m ²	2.2 ft ²
Max Wind Survivability	>201 km/hr	>125 mph
Wind Load @ 100 mph (161 km/hr)		
Fore/Aft	753 N	169 lbf
Side	351 N	79 lbf

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

Mounting & Downtilting

Mounting hardware attaches to pipe diameter $\varnothing 50-160$ mm; $\varnothing 2.0-6.3$ in

Mounting Bracket Kit	36210002
Downtilt Bracket Kit	36114003

Electrical specifications

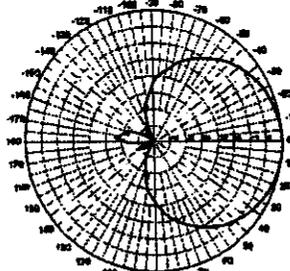
Frequency Range	696-900 MHz
Impedance	50 Ω
Connector ³⁾	NE or E-DIN Female 2 ports / Center
VSWR ¹⁾	$\leq 1.35:1$
Polarization	Slant $\pm 45^\circ$
Isolation Between Ports ¹⁾	< -25 dB
Gain ¹⁾	14.5 dBd 16.5 dBi
Power Rating ²⁾	500 W
Half Power Angle ¹⁾	
Horizontal Beamwidth	63°
Vertical Beamwidth	11°
Electrical downtilt ⁵⁾	0°
Null fill ¹⁾	5%
Lightning protection	Direct ground

Patented Dipole Design: U.S. Patent No. 6,608,600 B2

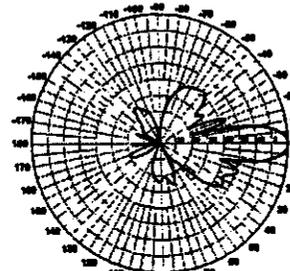
- 1) Typical values.
- 2) Power rating limited by connector only.
- 3) NE indicates an elongated N connector.
E-DIN indicates an elongated DIN connector.
- 4) Antenna weight does not include brackets.
- 5) Add'l downtilts may be available. Check website for details.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

Radiation-pattern*
750 MHz

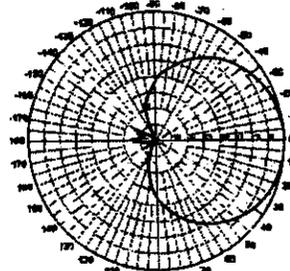


Horizontal

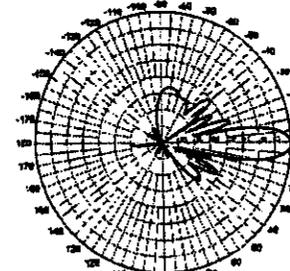


Vertical

850 MHz



Horizontal

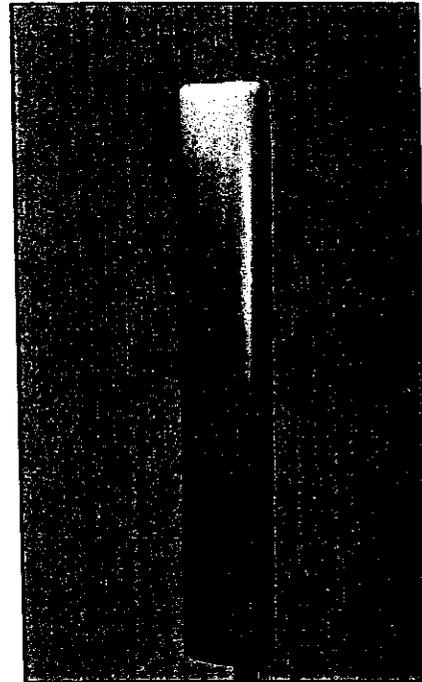


Vertical

696-900 MHz

BXA-70063/6CF

When ordering replace "___" with connector type.



Featuring our Exclusive
3T Technology™
Antenna Design:

- Watercut brass feedline assembly for consistent performance.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

Warranty:

This antenna is under a five-year limited warranty for repair or replacement.

Revision Date: 01/08/09



V7-FRO-660

58° Azimuth Beam, 72 inches

Directing our energies for you.

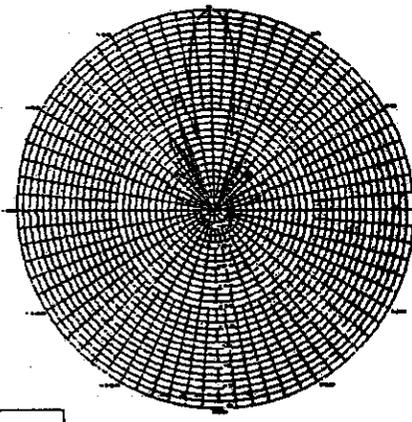
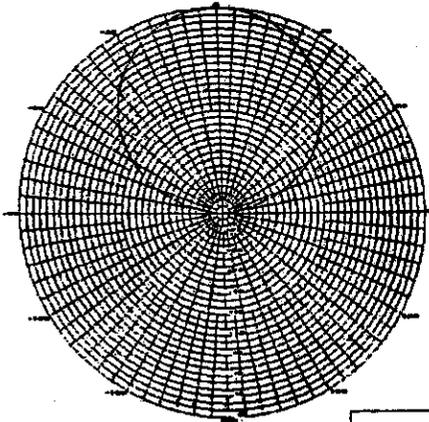
698-800 MHz Band

Electrical Specifications

Frequency	698-800 MHz
Polarization	Vertical
Gain	14.7 dBd
Horizontal Beam (3dB Points)	58°
Vertical Beam (3dB Points)	11°
Electrical Downtilt Options	0, 2, 4 or 6°
VSWR	<1.40:1
VSWR with Opt "T"	<1.50:1
Front-to-Back at Horizon	>30 dB
Upper Side Lobe Suppression	<-18 dB
Impedance	50 Ohms
Power Input Per Connector (W CW)	500 Watts
Intermodulation (2x20W)	<-150 dBc

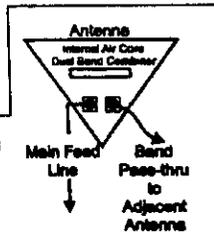
Mechanical Specifications

Input Connector (female)	Back 7/16 DIN (silver finish) or w/bot. opt.
Antenna Dimensions (Inches)	72 x 14.6 x 8.0
Antenna Weight	28 lbs
Bracket Weight	13.4 lbs
Lightning Protection	Direct Ground
RF Distribution	Printed Microstrip Substrate
Radome	Ultra High-Strength Luran
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D670, 0.45%
Environmental	MIL-STD-810E
Wind Survival	150 mph
Front Wind Load at 100 mph	208 lbs
Front Flat Plate Equivalent	4.23 sq-ft. (σ=2)
Mounting Brackets	Fits 2.5 to 3 Inch Schedule 40 Pipe
Mechanical Downtilt Range	0-12°
Clamps/Boils	Hot Dip Galvanized Steel/Stainless Steel



Available with Opt "I"

➤ The Opt "I" antenna option provides integrated Diplexers that reduce mainline cables and eliminate separate external devices.



Return Loss at pass-thru port into 50Ω load ≥17.7 dB

5 Year Warranty

Ordering Information & Options

- V7-FRO-660-x
- V7-FRO-660-xi
- V7-FRO-660-xi-bot
- V7-FRO-660-xi-bot-#

"-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4 or 6
 to add the Opt "I" option for integrated diplexers, add "I" to model number
 for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)
 add a "-#" to add a 1/2" RF cable, where "#" is the cable length, "2" is 2 meters, "4" is 4 meters, "6" is 6 meters...





XP19-60

Directing our energies for you.

Patch Elements

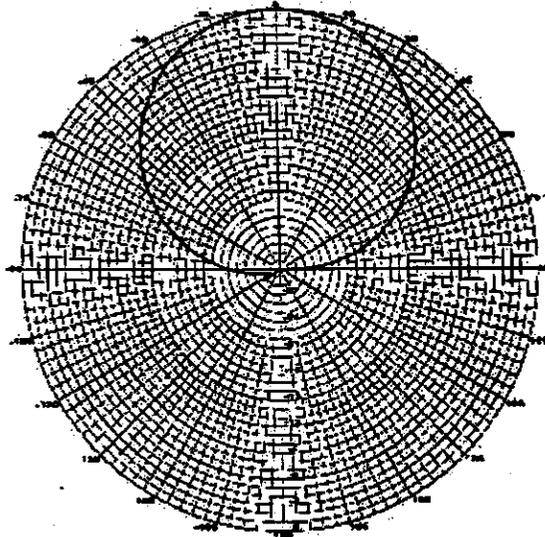


Electrical Specifications

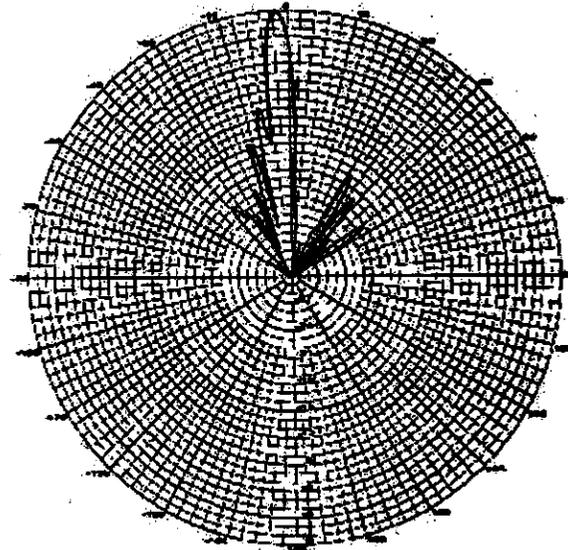
	<u>1850-1990 MHz</u>
Gain	19.3 dBi
Horizontal Beam (1/2 power)	60°
Vertical Beam (1/2 power)	5°
Electrical Downtilt Options	0° or 2°
VSWR (maximum)	1.35:1
Front-to-Back Ratio	>30 dB
Upper Side Lobe Supp.	<-22 dB
Polarization	Slant +/-45°
Impedance	50 ohms
Power Input Rating (per port)	250 CW
Intermodulation (2x20w)	typ. -150 dBc
Port to Port Isolation	>30 dB

60° Horizontal Beam
5° Vertical Beam
19.3 dBi Gain

Horizontal Beam



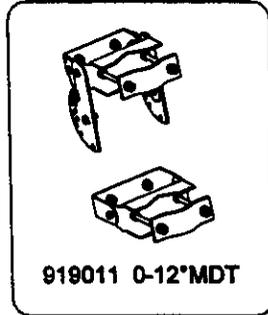
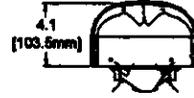
Vertical Beam





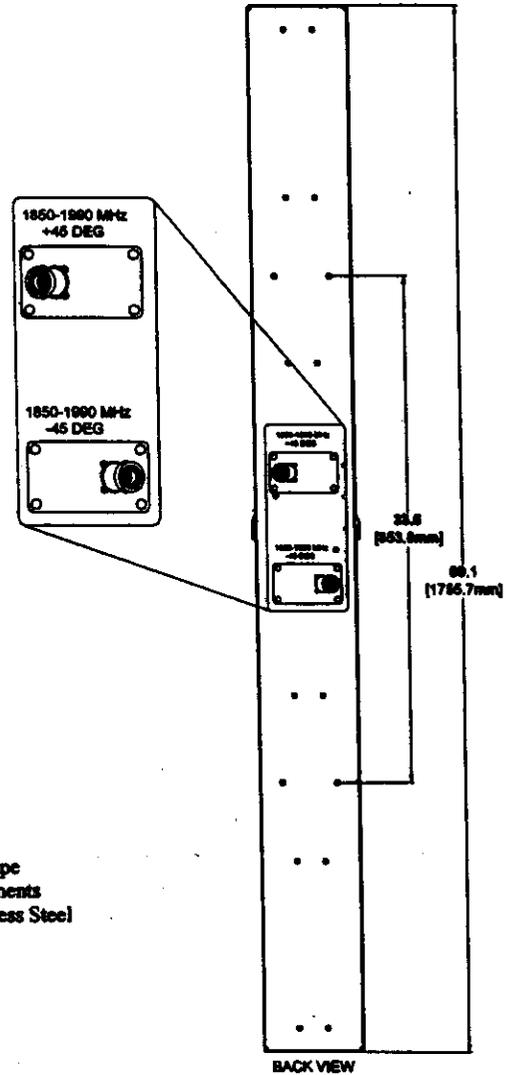
Directing our energies for you.

XP19-60



Mechanical Specifications

Input Connectors (female)	Four Back Mounted 7/16 DIN
Antenna Dimensions	69.1 x 6.7 x 4.1 Inches
Antenna Weight	~13 lbs
Bracket Weight	13.4 lbs
Lightning Protection	Direct Ground
RF Distribution	Printed Microstrip Substrate
Radome	Ultra High-Strength Luran
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D570, 0.45%
Environmental	MIL-STD-810E
Wind Survival	150 mph
Front Wind Load at 100 mph	105 lbs
Front Flat Plate Equivalent	2.13 sq-ft. (c=2)
Mounting Brackets	Fits 2.5 to 3 Inch Schedule 40 Pipe
Mechanical Downtilt Range	0-12 Degrees in 1 Degree Increments
Clamps/Bolts	Hot Dip Galvanized Steel/Stainless Steel



<u>Model Numbers</u>	<u>Option Descriptions</u>
XP19-60-x	x=Electrical Downtilt in Degrees (0 or 2)

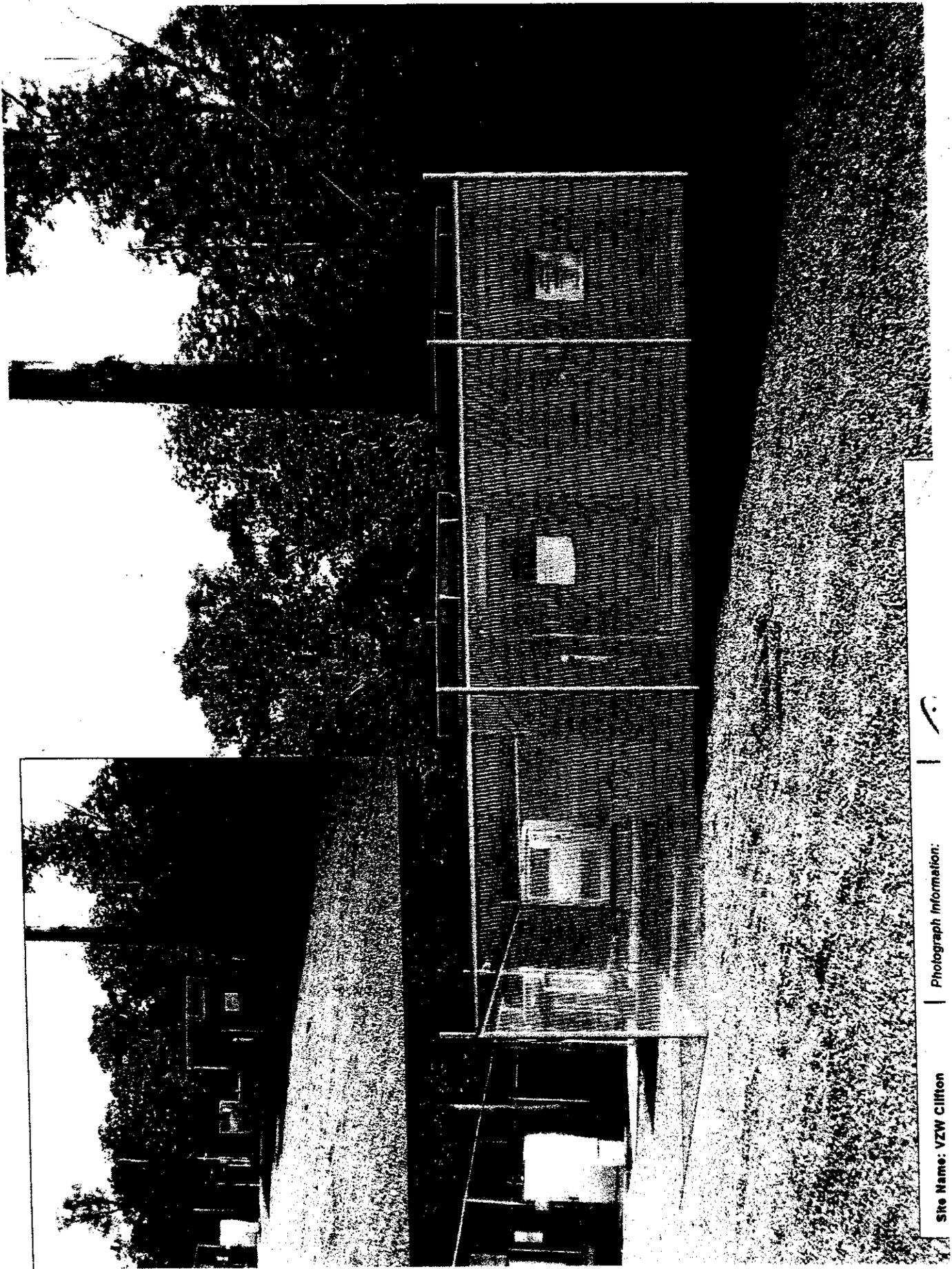
Downtilt and Mounting Bracket Included.



Site Name: VZW Clifton
Wireless Communication Facility
12700 Popet Road
Clifton, VA 20124

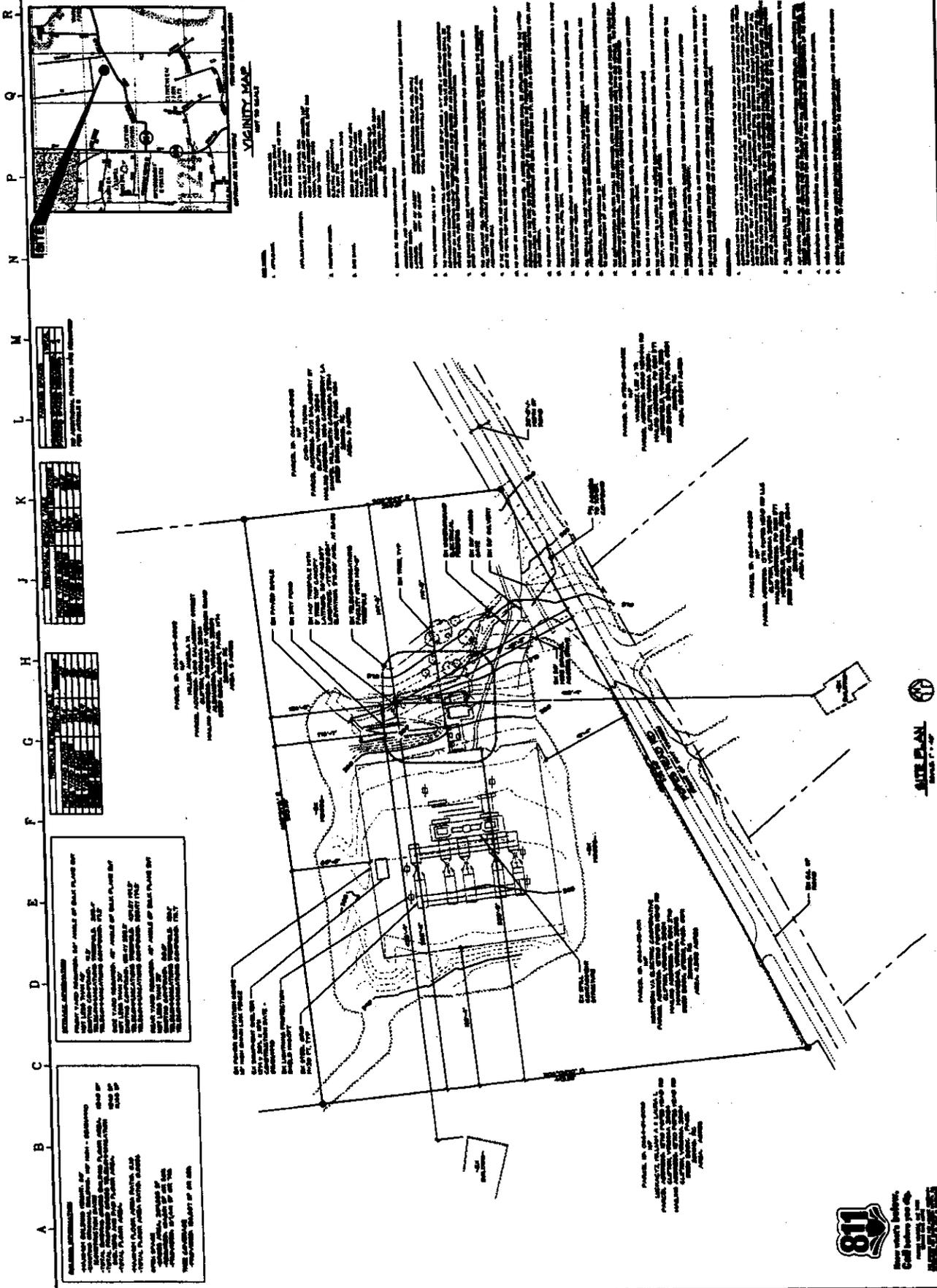
Photograph Information:
View of the Troopole
Showing the Proposed Site


**NETWORK BUILDING
& CONSULTING, LLC**



Site Name: VZW Clifton

Photograph Information:



SITE PLAN
SCALE: 1" = 100'

