

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

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**Application ID:** 59811302018092109  
**Application Status:** In Progress - DHCD  
**Program Name:** Virginia Telecommunications Initiative 2019  
**Organization Name:** Stafford County Government  
**Organization Address:**  
**Profile Manager Name:** Tina Suarez  
**Profile Manager Phone:** (540) 658-4573  
**Profile Manager Email:** tsuarez@staffordcountyva.gov

**Project Name:** Stafford County and KGI - VATI Grant Application 2019  
**Project Contact Name:** Michael Cannon  
**Project Contact Phone:** (540) 658-8687  
**Project Contact Email:** mcannon@staffordcountyva.gov  
**Project Location:** 1300 Courthouse Road  
Stafford, VA 22555-0339  
**Project Service Area:** Stafford County

**Total Requested Amount:** \$240,000.00

**Required Annual Audit Status:** No Current Audits Found

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Stafford County and KGI - VATI Grant Application 2019

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## Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
<b>Telecommunications</b>	<b>\$240,000.00</b>	<b>\$60,000.00</b>	<b>\$300,000.00</b>
Construction	\$224,940.00	\$56,235.00	\$281,175.00
Other: Legal Fees	\$7,060.00	\$1,765.00	\$8,825.00
Other: Permit Fees	\$8,000.00	\$2,000.00	\$10,000.00
<b>Total:</b>	<b>\$240,000.00</b>	<b>\$60,000.00</b>	<b>\$300,000.00</b>

Budget Narrative:

For a detailed breakdown please see the KGI Budget Breakdown Worksheet.

## Questions and Responses:

### 1. Project Area

Provide a map and description of the proposed geographic area including specific boundaries of the project area e.g.; street names, local and regional boundaries, etc. Explain why and how the project area(s) was selected. Attach a copy of your map(s).

#### Answer:

See attached map showing the coverage area and the two phases of the project. KGI Communications selected the coverage areas because these are unserved parts of the County.

Phase 1 includes the Marlborough Point area, which is comprised of two distinct sections. One section is the outer band surrounded by Accokeek Creek, Potomac Creek, and the Potomac River. The second section is inland from Route 608 to Potomac Overlook Lane. The outer band is nearly flat and the inland section is hilly and wooded. Phase 1 also includes serving a few specific areas surrounding Widewater State Park and the Park itself.

Marlborough Point includes Indian Point Rd, Menne Dr, Louie Ln, Pocohontas Ln, Betts Rd, Dobe Point Rd, Potomac View Ln, Potomac Overlook Ln, Waterbury Ct, Osprey View Ln, Main St, Aztec Rd, Drummers Cove, Cannon Bluff Rd, Brooke Rd, Brook Crest Rd, Canterbury Ln, Thorny Point Rd, Accokeek View Ln, Ponds Edge St, Marlborough Point Rd.

Phase 2 includes the remainder of the Widewater area and areas of Marlborough Point including Brent Point Rd, Shore Dr, Sandy Ln, Roger Ln, Woodrow Dr, Lake Dr, Mallard Rd, Ortega St, Hollywood Ave, Mynell St, Shady Cove Ln, Walley Point Dr, Driftwood Ln, Robin Rd, Aquia Crest Ln.

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

---

2.

Describe your outreach efforts to identify existing providers in the selected project area. Provide a map and list of all existing providers (fixed and wireless), and speeds offered within the project area. Provide a detailed explanation of how this information was compiled and the source(s).

**Answer:**

Stafford County's Telecommunications Commission (TC) is dedicated to assisting residents and businesses obtain broadband service. The TC identified areas that are unserved in the County and recommended that the County issue an RFI to identify private telecommunications providers to apply for the VATI grants to serve these areas. KGI Communications responded to the County's RFI and is proposing to serve two unserved areas in the Eastern part of the County, Marlborough Point and Widewater. These areas have no access to broadband service. Marlborough Point citizens conducted a survey of the area and verified that no service exists. Additionally, the Widewater Beach Citizen's Association, a group of homeowners in the Widewater area have verified that Citizens in Widewater do not have access to broadband service. The Association has met and has expressed strong support for obtaining service from KGI should they be awarded a VATI grant.

3. Project Need/Description

To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds of 10 Mbps/1 Mbps or less, and with less than 10% service overlap within the project area. Describe the anticipated service overlap with current providers within the project area.

**Answer:**

Based on the attached map and the survey results of Marlborough Point there is no overlap believed to be within the proposed service area. Approximately 85 residents have signed up on a "wait list" with KGI, which shows that there is a significant need for service in the Marlborough Point area. Widewater residents have also expressed strong support for obtaining service through KGI based on meetings held by the Widewater Beach Citizen's Association.

4. Describe population both in terms of absolute numbers within the project area and the eligible users that will be served by the proposed project. Describe the basis for these projections.

**Answer:**

The two proposed service areas include Marlborough Point with 221 residences and Widewater Peninsula with 142 residences and Widewater State Park. All of these areas are unserved and have no access to Internet service. All of these residences would be eligible to receive fixed wireless broadband Internet service from KGI.

5. Indicate the numbers of businesses and community anchor institutions the proposed project will pass in the project area.

**Answer:**

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

---

The two areas within the project area are all residences and home-based businesses with the exception of Widewater State Park. KGI is proposing to offer free broadband Internet connectivity and service to the Park. It is Stafford County's understanding that the Park may in turn offer free WiFi to the public at the visitor's center and the parking area.

6. Provide the anticipated take rate for the proposed service within one year of project completion and describe the basis for the estimate. Also provide all actions to be implemented to reach the identified potential customers within the project area.

**Answer:**

KGI anticipates a take rate of 70% based on survey projections for the areas served. To further substantiate this estimate KGI already has a wait list of 85 residences for Marlborough Point. KGI anticipates a similar take rate in the Widewater area based on meetings held with Widewater residents as part of the Widewater Beach Citizen's Association. KGI plans to send out marketing material to all potential customers within the proposed service areas immediately after service is made available.

7. A statement whether the proposed project is targeting the "last mile," "middle mile," or "backbone" portion of the broadband infrastructure.

**Answer:**

The proposed project is a fixed wireless Internet service, which includes placing radio infrastructure on an existing tower, constructing a new tower with radios on Marlborough Point, including providing one gigabit broadband Internet service to Widewater State Park. Individual residences within the proposed service area would subscribe to the KGI fixed wireless Internet service. Residences that subscribe to KGI's broadband service will purchase one-time customer premises equipment to enable the service at their homes.

8. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Will the wireless co-applicant own or lease the radio mast, tower, or other raised structure onto which the wireless infrastructure will be installed?

**Answer:**

KGI will own and lease infrastructure as follows:

Crown Castle Tower - KGI lease

Fiber - Verizon owns / KGI partnership lease

Backhaul from KGI tower - KGI owns

All wires, fiber lines, and radios on the tower - KGI to own

All FCC spectrum licenses - KGI owns

Mongeon Tower to be owned by KGI per agreement and property will be leased from Andrew Mongeon (see attached agreement)

9. Provide a description of the broadband service to be provided, including estimated download and upload speeds, whether that speed is based on dedicated or shared bandwidth, and the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate.

**Answer:**



# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

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The technology KGI uses is LTE Air Fiber shared bandwidth. KGI uses "access points" which are required customer premises equipment (see attached schematic diagram).

KGI proposes to offer the following broadband speeds:

In areas where KGI's access points have line-of-sight to the customer's premises, KGI proposes to offer a minimum speed of 10 Mbps down/3 Mbps up and a maximum speed of up to 200 Mbps down/50 Mbps up.

In areas where KGI's access points do not have line-of-sight to the customer's premises, KGI proposes to offer a minimum speed of 10 Mbps down/3 Mbps up and a maximum speed of up to 100 Mbps down/20 Mbps up.

10. Provide a description of the network system design used to deliver broadband service from the network's primary Internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Also describe specific advantages of using this technology. Provide a detailed explanation on how this information was compiled and source(s). For wireless projects, provide a propagation map including the proposed project.

**Answer:**

KGI will lease space at an air-conditioned and heated cabinet located at the Crown Castle Tower, 6271 Caledon Rd., King George, VA 22485. This tower will serve both the Marlborough Point area and portions of the Widewater area with fixed wireless broadband service. KGI will build a tower at 2770 Brooke Rd, Stafford VA 22554 also referred to as the "Mongeon Tower 2." This will serve the inland area in Marlborough Point and the remainder of the Widewater Peninsula. The towers will have Internet access through fiber from KGI's partnership with Verizon.

KGI will have a backhaul from KGI's Tower 1 Internet facility located on 13252 James Madison Parkway, King George, VA 22485, pointing toward the Crown Castle Tower that will provide Internet in the event that the Verizon fiber is down so customers don't lose Internet connectivity.

The type of equipment that will be installed on the Crown Castle tower includes:

MikroTik Cloud Router 10 Gig

MikroTik Cloud Router Switch 16xSFP+ 10 Gig

Baicells Nova-436 Outdoor TDD Base Station

Cambium ePMP 3000 5 GHz Access Point Radio

Cambium PTP 820C Radio (qty: 2)

The type of equipment that will be installed on the Mongeon tower includes:

MikroTik Cloud Router 10 Gig

MikroTik Cloud Router Switch 16xSFP+ 10 Gig

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

---

Baicells Nova-436 Outdoor TDD Base Station

Cambium ePMP 3000 5 GHz Access Point Radio

For the park,

Ubiquiti AirFiber 2 GBPS+ Backhaul, 24 GHz

The equipment to be installed at the customer's premise includes the following:

Cambium ePMP Force 300-25 Radio

Cambium copilot R201P, US, 802.11ac dual band Gigabit WLAN Router with ATA and PoE

Baicells Atom OD06-19.5 Outdoor UE 3.5 GHz

In areas like Marlborough Point and Widewater where the lack of population density and terrain do not justify the high cost of deploying fiber-to-the-home, fixed wireless is the most cost-effective technology to deploy. According to a 2017 report from The Carmel Group, the capital costs to deploy fixed wireless technology are about one-seventh the capital costs to deploy fiber. Fixed wireless technology also can be deployed to the entire community much more quickly by installing access points on a couple of towers. There is no need to disrupt residences and businesses with street construction, no need to obtain easements and no need to attach to utility and telephone poles, which makes this proposed project more "shovel ready" than traditional fiber or cable TV broadband deployment. .

## 11. Project Readiness

What is the current state of project development (i.e. planning, preliminary engineering, final design, etc.)? Prepare a detailed project timeline or construction schedule, which identifies specific tasks, staff, contractor responsible(s), collection of data, etc., and estimated start and completion dates. The timeline should include all activities being completed within 12 months of contract execution with DHCD.

### Answer:

KGI Communications can be ready to order equipment and begin installing equipment on the existing Crown Castle Tower as soon as a VATI grant award is received . The equipment takes about 2-4 weeks to arrive and KGI will work on leasing the tower and doing a structural analysis while awaiting equipment delivery. A detailed project plan is attached. KGI will also begin the conditional use permit process with Stafford County assisting for the Mongeon property tower. Once the permits have been processed construction will begin to erect the tower and the installation of the radio equipment.

## 12. Matching funds: Provide a description of the matching funds the applicant and co-applicant will invest in the proposed project, (VATI funding cannot exceed 80% of total project cost). The Funding Sources Table should be completed.

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

---

- i. For each element of matching funds in the description, indicate the type of match (cash, salary expense, or in-kind contribution).
- ii. Identify whether the applicant or co-applicant is responsible for providing each element of the proposed matching funds.
- iii. Include copies of vendor quotes or documented cost estimates supporting the proposed budget.

**Answer:**

The total cost of the proposed project to provide fixed wireless Internet service to Marlborough Point and Widewater areas is \$300,000 (see Funding Sources Table).

- i. See attached KGI Budget Breakdown worksheet. KGI is providing fully funding the 20% match.
- ii The cost to be reimbursed by VATI will be 80%, which is \$240,000. KGI will provide the required 20% match of \$60,000 (see attached Funding Sources Table).
- iii See attached vendor quotes file

13. Identify key individuals, including name and title, who will be responsible for the management of the project. Describe their role and responsibilities for the project. Present this information in table format.

**Answer:**

Juan Marte, CEO of KGI will serve as chief engineer for the project

Michele Wido, President of KGI will serve as project manager

Michael Cannon, CTO, Stafford County will serve as grant administrator

14. Applicant and Co-Applicant: A description of the public-private partnership involved in the project. Detail the local government assistance: Local government co-applicants should demonstrate assistance to project that will lower overall cost and further assist in the timely completion of construction, including assistance with permits, rights of way, easement and other issues that may hinder or delay timely construction and increase cost.

- i. If the partnership is formalized in a written agreement provide a copy of that agreement.
- ii. If the partnership has not been formalized, provide a short description of the project management role, financial commitment, or other contribution to the project for the applicant and co-applicant and any additional partners.

**Answer:**

- i. The Stafford County Board of Supervisors passed the attached resolution R18-185 on November 27, 2018

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

---

authorizing the County to co-apply for the VATI grant with KGI Communications LLC.

ii. Stafford County has committed to providing GIS mapping service, grant application and administration services, and assistance expediting permits. Stafford County will assist with public education and outreach.

## 15. Project Budget and Cost Appropriateness

Applicants shall provide a detailed budget as to how the grant funds will be utilized, including an itemization of equipment and construction costs and a justification of proposed expenses. Expenses should be substantiated by clear cost estimates.

### Answer:

All of the project costs are detailed in the attached KGI Budget Breakdown worksheet.

16. The cost benefit index is comprised of three factors: (i) state share for the total project cost, (ii) state cost per unit passed, and (iii) the internet speed. From these statistics, individual cost benefit scores are calculated. Finally, the three component scores are averaged together and converted to a 30 point scale to form a composite score.

### Answer:

N/A (to be calculated by DHCD)

17. A description of applicant and co-applicant's history or experience with managing grants and constructing broadband communications facilities in the Commonwealth of Virginia and elsewhere.

### Answer:

Stafford County manages grants from the Commonwealth and the Federal Government on an ongoing basis. Stafford County has received numerous grants from a variety of Virginia agencies and has a detailed process to review grant applications and manage ongoing grants. Additionally, Stafford County grants are routinely audited for compliance with state and federal regulations.

KGI and their employees have significant experience deploying wireless broadband in King George County and in parts of the Caribbean (see attached KGI corporate qualifications).

## 18. Service

Describe the Internet service offerings to be provided after completion of this project and your price structure for these services. The service offerings should include all relevant tiers.

### Answer:

KGI offers the following tiers of service. Each of these monthly subscriptions requires a one-time estimated fee that ranges from \$199 to \$450 to cover the cost of the customer premises equipment and setup and installation.

Silver Plus

Up to 10 Mbps down/up to 3 Mbps up - \$49.99/month\*

Silver Premium

Up to 15 Mbps down/up to 3 Mbps up - \$59.99/month\*

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

---

## Gold

Up to 20 Mbps down/up to 3 Mbps up - \$69.99/month\*

## Gold Plus

Up to 25 Mbps down/up to 3 Mbps up - \$79.99/month\*

## Gold Premium

Up to 30 Mbps down/up to 7 Mbps up - \$89.99/month\*

## Platinum

Up to 50 Mbps down/up to 10 Mbps up - \$119.99/month\*

## Platinum Premium

Up to 100 Mbps down/up to 20 Mbps up - \$149.99/month\*

## Diamond

Up to 150 Mbps down/up to 50 Mbps up - \$199.99/month\*

## Diamond Premium

Up to 200 Mbps down/up to 50 Mbps up - \$199.99/month\*

\*Add \$5 for month to month plans

Unlimited usage with no throttling

## 19. Additional Information

Any other equitable factor that the applicant desires to include.

### Answer:

On November 28, 2018, the County ran a "Public Notice of Grant Application" in the Fredericksburg Freelance Star, the largest publication in the region for 15 days. The notice was also published on Stafford County's website and posted in public buildings. Comments were received and included in the attachments section.

### Attachments:

(Optional) || Letter of support from Virginia DCR

StaffordKGIgrantsupportletter12121812132018103542.pdf

Derivation of Cost (Project Budget)

KGIWORKSHEETBudgetBreakdown12112018122248.xlsx

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

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Project Management Plan

Projectmanagementplan1212201885441.xlsx

Supporting documentation for costs estimates

VendorQuotes1212201842743.pdf

Map(s) of project area, including proposed infrastructure

ProposedCoverageAreasKGI1212201833300.pdf

Map(s) or schematic of existing broadband providers (inventory of existing assets)

KGIBidRFI118183OverallMapUnservedwProviders1214201893615.pdf

Documentation of relationship between applicant and co-applicant (formal or informal)

R18286IT1212201840359.pdf

Two most recent Form 477 submitted to FCC

Form477November30181130201894422.pdf

Documentation for in-kind contributions, including value(s)

MemoinKindContributionsServices12142018112504.pdf

Documentation supporting project costs (i.e. vendor quotes)

VendorQuotes1212201890144.pdf

Documentation of source of match funding

KGI20percentletter12132018103330.pdf

Documentation that proposed project area is unserved based on VATI criteria

KGIBidRFI118183OverallMapUnserved1214201893452.pdf

Documentation that proposed project area is not designated for Connect America Funding (CAF)

ConnectAmericaEligibility1212201842406.pdf

# Application to DHCD Submitted through CAMS

Stafford County Government

Stafford County and KGI - VATI Grant Application 2019

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Funding Sources Table

VATIFundingSourcesTable9242018933231212201854410.docx

(Optional) || Public Input for Stafford County-KGI Grant Application

PublicInputforStaffordCountyKGI VATIGrantApplication1212201843922.pdf

(Optional) || Network Schematic of KGI Air Fiber Technology

networkdesign1212201854119.pdf

(Optional) || KGI Corporate Qualifications and Resumes

KGICorporateQualifications1212201855424.pdf

## CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date

Product	Total	VATI	Non-VATI	Source of Estimate	Date
ROHN 45G STANDARD SECTION, 10 FT QTY: 9	\$ 2,241	\$ 1,793	\$ 448	ISP SUPPLIES	12/10/18
ROHN 45G FACE DISH MOUNT QTY: 4	\$ 816	\$ 653	\$ 163	ISP SUPPLIES	12/10/18
ROHN 45G HINGED BASE PLATE QTY: 1	\$ 761	\$ 609	\$ 152	ISP SUPPLIES	12/10/18
ROHN 45G GUY BRACKET ASSEMBLY W/HARDWARE QTY: 4	\$ 717	\$ 574	\$ 143	ISP SUPPLIES	12/10/18
ROHN 45G TOP PLATE FOR TB3 & TB4 BEARING QTY: 1	\$ 215	\$ 172	\$ 43	ISP SUPPLIES	12/10/18
ROHN 12FT 25G/45G TOWER ERECTION FIXTURE QTY: 1	\$ 932	\$ 745	\$ 186	ISP SUPPLIES	12/10/18
ROHN 45G TORQUE ARM STABILIZER ASSEMBLY QTY: 1	\$ 439	\$ 352	\$ 88	ISP SUPPLIES	12/10/18
ROHN 454G TAPERED BASE SECTION, 10FT QTY: 1	\$ 1,889	\$ 1,511	\$ 378	ISP SUPPLIES	12/10/18
ROHN 45A2G TOWER TOP CAP SECTION 9FT QTY: 2	\$ 673	\$ 539	\$ 135	ISP SUPPLIES	12/10/18
ROHN LUG 1" - 1 1/4 ROD QTY: 6	\$ 143	\$ 114	\$ 29	ISP SUPPLIES	12/10/18
ROHN GROUND ROD, GALVANIZED, 3/8"X6' W/CLAMP QTY: 6	\$ 73	\$ 58	\$ 15	ISP SUPPLIES	12/10/18
ROHN 45/340017T PACKAGE HARDWARE QTY: 3	\$ 372	\$ 298	\$ 74	ISP SUPPLIES	12/10/18
ROHN TURNBUCKLE, HDG, 3/4" X 12" EYE & JAW QTY: 24	\$ 2,897	\$ 2,317	\$ 579	ISP SUPPLIES	12/10/18
ROHN ANCHOR ROD, 5955 1.44" DBL R 20' QTY: 3	\$ 3,647	\$ 2,917	\$ 729	ISP SUPPLIES	12/10/18
ROHN END SLEEVE, HDG, 7/8" WIRE BIG GRIPS QTY: 24	\$ 240	\$ 192	\$ 48	ISP SUPPLIES	12/10/18
ROHN 3/8 INCH HEAVY DUTY OPEN EYE WIRE ROPE THIMBLE QTY: 24	\$ 65	\$ 52	\$ 13	ISP SUPPLIES	12/10/18
ROHN GUY WIRE REEL, GALVANIZED STRANDED, 1/4" QTY: 1,000 FT	\$ 320	\$ 256	\$ 64	ISP SUPPLIES	12/10/18
1/4"X2"10" UNIVERSAL COPPER GROUND BUSS BAR QTY: 1	\$ 48	\$ 38	\$ 10	TALLEY SUPPLIES	12/10/2018
1/4"X2"X10" UNIV 2X10-HOLE CU BUSS BAR, GROUND BAR NO HDWR QTY: 1	\$ 31	\$ 25	\$ 6	TALLEY SUPPLIES	12/10/2018
300' LO IND HYBRID TRUNK CABLE 24 SM FIBER + 12 X 6AWG COND QTY: 1	\$ 9,007	\$ 7,205	\$ 1,801	TALLEY SUPPLIES	12/10/2018



## CDBG Derivation of Cost

1/2" COAX 4-STACK SNAPSTAK HANGER KIT 10/PKG QTY: 15	\$ 394	\$ 315	\$ 79	TALLEY SUPPLIES	12/10/2018
3/8" (10MM) CABLE OD UNIVERSAL BARREL CUSHION, USED WITH 1/2" HANGERS QTY: 40 OR 10 PACKS	\$ 350	\$ 280	\$ 70	TALLEY SUPPLIES	12/10/2018
ANCHOR RAIL ADAPTER KIT FOR SNAP-IN HANGERS KITS 10/PKG QTY: 20	\$ 727	\$ 582	\$ 145	TALLEY SUPPLIES	12/10/2018
1/2" PRE-LACED HOISTING GRIP QTY: 2	\$ 35	\$ 28	\$ 7	TALLEY SUPPLIES	12/10/2018
#2 LUG ONE 1/4" HOLD LONG BRL QTY: 30	\$ 384	\$ 307	\$ 77	TALLEY SUPPLIES	12/10/2018
#6 AWG LUG, ONE 1/4" HOLE, LONG BARREL QTY: 50	\$ 120	\$ 96	\$ 24	TALLEY SUPPLIES	12/10/2018
#6 AWG THHN GREEN JACKET STRANDED GROUND WIRE QTY: 1000 FT	\$ 1,280	\$ 1,024	\$ 256	TALLEY SUPPLIES	12/10/2018
#6 TELCOFLEX GREEN L4 CLASS I, CLOTH BRAID QTY: 500 FT	\$ 1,045	\$ 836	\$ 209	TALLEY SUPPLIES	12/10/2018
BLUE 3/4" X 66' ELECTRICAL TAPE QTY: 3	\$ 28	\$ 20	\$ 5	TALLEY SUPPLIES	12/10/2018
BROWN 3/4" X 66' TAPE QTY: 3	\$ 8	\$ 7	\$ 2	TALLEY SUPPLIES	12/10/2018
GRAY 3/4" X 66' ELECTRICAL TAPE QTY: 3	\$ 28	\$ 23	\$ 6	TALLEY SUPPLIES	12/10/2018
GREEN 3/4" X 66' TAPE QTY: 3	\$ 8	\$ 7	\$ 2	TALLEY SUPPLIES	12/10/2018
ORANGE 3/4" X 66' TAPE QTY: 3	\$ 8	\$ 7	\$ 2	TALLEY SUPPLIES	12/10/2018
1-5/8" SPRING NUT W-3/8" HOLE QTY: 20	\$ 43	\$ 34	\$ 9	TALLEY SUPPLIES	12/10/2018
2-HOLE UNISTRUT 1-5/8" POST BASE, ZINC-PLATED QTY: 4	\$ 394	\$ 315	\$ 79	TALLEY SUPPLIES	12/10/2018
2"-8" OD/ANG 7' TOWER STAND OFF SECTOR FRAME QTY: 1	\$ 867	\$ 693	\$ 173	TALLEY SUPPLIES	12/10/2018
21'HX24"W X 10'L BURIABLE 2-POST WAVEGUIDE BRIDGE KIT QTY: 2	\$ 2,071	\$ 1,657	\$ 414	TALLEY SUPPLIES	12/10/2018
5/8" X 10' COPPER CLAD GROUND ROD QTY: 6	\$ 258	\$ 206	\$ 52	TALLEY SUPPLIES	12/10/2018
1/2"-1-1/3" OD BRONZE CLAMP FOR #@ STRND TO #10 SOLID WIRE QTY: 16	\$ 572	\$ 458	\$ 114	TALLEY SUPPLIES	12/10/2018
1/4"X4"X12" UNIVERSAL COPPER GROUND BUSS BAR QTY: 2	\$ 127	\$ 102	\$ 25	TALLEY SUPPLIES	12/10/2018
#6 BLUE BUTT SPLICE COPPER COMPRESSION SPLICE QTY: 6	\$ 28	\$ 22	\$ 6	TALLEY SUPPLIES	12/10/2018
VIOLET 3/4" X 66' TAPE QTY: 3	\$ 8	\$ 7	\$ 2	TALLEY SUPPLIES	12/10/2018
SCOTCH 8.5 MIL VINYL PLASTIC ELECTRIC TAPE 3/4"X66' ROLL QTY: 10	\$ 114	\$ 92	\$ 23	TALLEY SUPPLIES	12/10/2018

## CDBG Derivation of Cost

YELLOW 3/4" X 66' TAPE QTY: 3	\$ 8	\$ 7	\$ 2	TALLEY SUPPLIES	12/10/2018
GREEN 3/4"X66' TAPE QTY: 3	\$ 8	\$ 7	\$ 2	TALLEY SUPPLIES	12/10/2018
4 FT BLACK 1-1/2" ADHESIVE LINED HEAT SHRINK QTY: 5	\$ 110	\$ 88	\$ 22	TALLEY SUPPLIES	12/10/2018
4 FT BLACK 1/2"ADHESIVE HINED HEAT SHRINK QTY: 5	\$ 29	\$ 23	\$ 6	TALLEY SUPPLIES	12/10/2018
2" WIDE RESETTABLE COMBINATION PADLOCK QTY: 4	\$ 103	\$ 82	\$ 21	TALLEY SUPPLIES	12/10/2018
1-5/8"X1-5/8" LONG SLOT PRE-GALVANIZED UNISTRUT QTY: 10	\$ 280	\$ 224	\$ 56	TALLEY SUPPLIES	12/10/2018
6-STR THRU 2-STR SERVIT GROUNDING SPLICE QTY: 4	\$ 20	\$ 16	\$ 4	TALLEY SUPPLIES	12/10/2018
2"-16" OD TWR LEG UNIV OPEN FACE PIPE MOUNT 2-3/8" OD X 72" QTY: 2	\$ 1,044	\$ 835	\$ 209	TALLEY SUPPLIES	12/10/2018
6-CONDUCTOR #6 SHIELDED POWER CABLE QTY: 300 FT	\$ 3,279	\$ 2,623	\$ 656	TALLEY SUPPLIES	12/10/2018
150' LO IND HYBRID TRUNK CABLE 24 SM FIBER QTY: 1	\$ 5,321	\$ 4,257	\$ 1,064	TALLEY SUPPLIES	12/10/2018
10' D-CLASS LDF4 STANDARD RF JUMPER CABLE 4.3-10 W/ SURE GUARD QTY: 24	\$ 3,096	\$ 2,476	\$ 619	TALLEY SUPPLIES	12/10/2018
CAMBIUM PTP 820C RADIO QTY: 2	\$ 10,080	\$ 8,064	\$ 2,016	DOUBLERADIUS	9/19/2018
CAMBIUM GIGABIT SURGE SUPPRESSER QTY: 4	\$ 160	\$ 128	\$ 32	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 650 AC POWER INJECTOR QTY: 2	\$ 128	\$ 102	\$ 26	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 GLANDS QTY: 2	\$ 46	\$ 37	\$ 9	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 CAT5E OUTDOOR QTY: 1	\$ 209	\$ 167	\$ 42	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 GROUNDING KIT FOR CAT5E QTY: 4	\$ 48	\$ 38	\$ 10	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 POE INJECTOR ALL OUTDOOR QTY: 2	\$ 1,061	\$ 849	\$ 212	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 GBE CONNECTOR KIT QTY: 2	\$ 37	\$ 29	\$ 7	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 GROUND CABLE FOR IDU QTY: 2	\$ 24	\$ 19	\$ 5	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 ACT.KEY QTY: 2	\$ 152	\$ 122	\$ 30	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 ACT.KEY-XPIC QTY: 4	\$ 736	\$ 589	\$ 147	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820C ACT.KEY-2ND CORE ACTIVATION QTY: 2	\$ 3,800	\$ 3,040	\$ 760	DOUBLERADIUS	9/19/2018

## CDBG Derivation of Cost

CAMBIUM PTP 820C ACT.KEY - CAPACITY 650M QTY: 4	\$ 4,800	\$ 3,840	\$ 960	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 2' ANT,SP,11GHZ QTY: 2	\$ 880	\$ 704	\$ 176	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820C OMT KIT QTY: 2	\$ 1,400	\$ 1,120	\$ 280	DOUBLERADIUS	9/19/2018
CAMBIUM PTP 820 RFU-C QTY: 2	\$ 178	\$ 142	\$ 35	DOUBLERADIUS	9/19/2018
UBIQUITI AIRFIBER 11FX QTY: 2	\$ 1,200	\$ 960	\$ 240	DOUBLERADIUS	5/23/2018
UBIQUITI AIRFIBER 11FX HIGH BAND DUPLEXER QTY: 4	\$ 796	\$ 637	\$ 159	DOUBLERADIUS	5/23/2018
UBIQUITI 11 GHZ AIRFIBER DISH 35 DBI 11 GHZ QTY: 2	\$ 675	\$ 540	\$ 135	DOUBLERADIUS	5/23/2018
FREQUENCY STUDY, APPLICATION FILING FCC SCHEDULE K COMPLETION QTY: 1	\$ 525	\$ 420	\$ 105	DOUBLERADIUS	5/23/2018
FCC PASS-THROUGH SERVIE FEE NEW SITE QTY: 2	\$ 1,375	\$ 1,100	\$ 275	DOUBLERADIUS	5/23/2018
UPS GROUND QTY: 1	\$ 458	\$ 366	\$ 92	DOUBLERADIUS	5/23/2018
CAMBIUM 900 MHZ SECTOR ANTENNA QTY: 4	\$ 1,264	\$ 1,011	\$ 253	DOUBLERADIUS	12/10/2018
CAMBIUM EPMP 3000 SECTOR ANTENNA QTY: 8	\$ 3,192	\$ 2,554	\$ 638	DOUBLERADIUS	12/10/2018
UBIQUITI 11 GHZ AIRFIBER DISH 35 DBI 11 GHZ QTY: 2	\$ 926	\$ 741	\$ 185	DOUBLERADIUS	12/10/2018
UBIQUITI AIRFIBER 2 GBPS + BACKHAUL 24GHZ QTY: 2	\$ 6,426	\$ 5,141	\$ 1,285	DOUBLERADIUS	12/10/2018
UBIQUITI AIRFIBER 11FX LOW BAND DUPLEXER QTY: 3	\$ 550	\$ 440	\$ 110	DOUBLERADIUS	12/10/2018
UBIQUITI AIRFIBER 11 FX HIGH BAND DUPLEXER QTY: 3	\$ 550	\$ 440	\$ 110	DOUBLERADIUS	12/10/2018
RF ELEMENTS TWISTPORT ADAPTOR FOR EPMP 2000 QTY: 8	\$ 359	\$ 287	\$ 72	DOUBLERADIUS	12/10/2018
MIKROTIK CCR1009-7G-1C-1S+ CLOUD CORE ROUTER QTY: 1	\$ 479	\$ 383	\$ 96	DOUBLERADIUS	12/10/2018
CAMBIUM CMM5 TO UGPS SHIELDED CABLE, 20 METER QTY: 1	\$ 169	\$ 135	\$ 34	DOUBLERADIUS	12/10/2018
UBIQUITI U FIBER SINGLE MODE MODULTE 10G 2-PK QTY: 20	\$ 1,700	\$ 1,360	\$ 340	DOUBLERADIUS	12/10/2018
MIKROTIK ENCLOSER SFP+ 3M DIRECT ATTACH CABLE QTY: 20	\$ 883	\$ 707	\$ 177	DOUBLERADIUS	12/10/2018
BAICELLS NOVA-436 OUTDOOR TDD BASE STATION QTY: 6	\$ 32,994	\$ 26,395	\$ 6,599	DOUBLERADIUS	12/10/2018
KP PERFORMANCE TWO 3 GHZ 65 90 SECTOR ANTENNAS QTY: 6	\$ 3,210	\$ 2,568	\$ 642	DOUBLERADIUS	12/10/2018

CDBG Derivation of Cost

UBIQUITI AIRFIBER 11FX QTY: 2	\$ 1,200	\$ 960	\$ 240	DOUBLERADIUS	12/10/2018
MIKROTIK ENCLOSER S-31DLC20D QTY: 10	\$ 247	\$ 198	\$ 49	DOUBLERADIUS	12/10/2018
UBIQUITI U FIBER MULTIMODE MODULE 1G 2-PK QTY: 12	\$ 203	\$ 163	\$ 41	DOUBLERADIUS	12/10/2018
SHIREEN OUTDOOR DRY GEL TAPE CAT5E UTP CABLE QTY: 2	\$ 305	\$ 244	\$ 61	DOUBLERADIUS	12/10/2018
IGNITENET METROLINQ ALIGNMENT SCOPE QTY: 4	\$ 385	\$ 308	\$ 77	DOUBLERADIUS	12/10/2018
UBIQUITI U FIBER SINGLE MODE MODULE 20-PK QTY: 2	\$ 1,500	\$ 1,200	\$ 300	DOUBLERADIUS	12/10/2018
MIKROTIK 48 TO 24V GIGABIT POE CONVERTER QTY: 20	\$ 483	\$ 387	\$ 97	DOUBLERADIUS	12/10/2018
UBIQUITI FIBERPOE G2 QTY: 21	\$ 599	\$ 479	\$ 120	DOUBLERADIUS	12/10/2018
MIKROTIK CLOUD CORE ROUTER QTY: 3	\$ 8,896	\$ 7,117	\$ 1,779	DOUBLERADIUS	12/10/2018
UBIQUITI EDGEPOINT WISP SWITCH 16-PORT QTY: 4	\$ 2,054	\$ 1,643	\$ 411	DOUBLERADIUS	12/10/2018
CAMBIUM PMP 450M ACCESS POINT QTY: 6	\$ 41,970	\$ 33,576	\$ 8,075	DOUBLERADIUS	12/10/2018
RF ELEMENTS SYMMETRICAL HORN ANTENNA QTY: 8	\$ 1,040	\$ 832	\$ 208	DOUBLERADIUS	12/10/2018
MIKROTIK CLOUD ROUTER SWITCH 16XSFP+ QTY: 3	\$ 1,163	\$ 930	\$ 233	DOUBLERADIUS	12/10/2018
UBIQUITI EDGEPOWER 54V QTY: 21	\$ 3,856	\$ 3,085	\$ 771	DOUBLERADIUS	12/10/2018
UBIQUITI U FIBER 8-PORT QTY: 1	\$ 1,454	\$ 1,164	\$ 291	DOUBLERADIUS	12/10/2018
CAMBIUM CMM5 POWER AND SYNC INJECTOR 56V QTY: 5	\$ 6,475	\$ 5,180	\$ 1,295	DOUBLERADIUS	12/10/2018
MIKROTIK S+RJ10 6-SPEED RJ-45 MODULE QTY: 4	\$ 278	\$ 222	\$ 56	DOUBLERADIUS	12/10/2018
UBIQUITY EDGEPOWER 54V, 150W AC TO DC PSU MODULE	\$ 706	\$ 565	\$ 141	DOUBLERADIUS	12/10/2018
UBIQUITI EDGESWITCH 16-PORT 10G QTY: 4	\$ 2,501	\$ 2,000	\$ 500	DOUBLERADIUS	12/10/2018
UBIQUITI TOUGH CABLE CONNECTORS, 100 PIECES QTY: 10	\$ 480	\$ 384	\$ 96	DOUBLERADIUS	12/10/2018
CAMBIUM 900 MHZ PMP 450I CONNECTORIZED ACCESS POINT QTY: 4	\$ 9,264	\$ 7,411	\$ 1,853	DOUBLERADIUS	12/10/2018
CAMBIUM EPMP 3000 4 GHZ ACCESS POINT RADIO QTY: 8	\$ 6,392	\$ 5,114	\$ 1,278	DOUBLERADIUS	12/10/2018
CAMBIUM POWER SUPPLY SINGLE OUTPUT SWITCHING QTY: 6	\$ 960	\$ 768	\$ 192	DOUBLERADIUS	12/10/2018

CDBG Derivation of Cost

UBQUITI POWER CABLE QTY: 3	\$ 1,976	\$ 1,580	\$ 395	DOUBLERADIUS	12/10/2018
UBIQUITI U FIBER SINGLE MODE MODULE 10G 20-PK QTY: 5	\$ 3,750	\$ 3,000	\$ 750	DOUBLERADIUS	12/10/2018
UBIQUITI UFIBER GPON OLT SFP C+ MODULE QTY: 8	\$ 617	\$ 494	\$ 123	DOUBLERADIUS	12/10/2018
SHIREEN OUTDOOR CAT6 FTP SHIELDED 1000 FT SPOOL QTY: 2	\$ 399	\$ 320	\$ 80	DOUBLERADIUS	12/10/2018
ATTORNEY FEES	\$ 2,157	\$ 1,725	\$ 431	LERMAN SENTER PLLC	11/26/2018
ATTORNEY FEES	\$ 6,668	\$ 5,338	\$ 1,334	LERMAN SENTER PLLC	12/11/2018
INSTALL MOUNTS QTY: 3	\$ 6,500	\$ 5,200	\$ 1,300	CRC CONTRACTING INC.	12/10/2018
INSTALL A&L GROUNDING MATERIALS QTY: 1	\$ 4,300	\$ 3,440	\$ 860	CRC CONTRACTING INC.	12/10/2018
INSTALL A&L DISPOSABLES QTY: 1	\$ 3,500	\$ 2,800	\$ 700	CRC CONTRACTING INC.	12/10/2018
ELECTRICAL WORK AS PER CD'S, INSTALL NEW FEEDER IN CONDUIT, GROUNDING QTY: 1	\$ 8,000	\$ 6,400	\$ 1,600	CRC CONTRACTING INC.	12/10/2018
INSTALL KGI FURNISHED A&L MATERIALS	\$ 7,500	\$ 6,000	\$ 1,500	CRC CONTRACTING INC.	12/10/2018
PERFORM SWEEP/FIBER TESTS, ANTENNA ALIGNMENT	\$ 3,500	\$ 2,800	\$ 860	CRC CONTRACTING INC.	12/10/2018
PROVIDE QTY 2, 2 MAN CREWS AFTER INSTALLATION FOR MICROWAVE PATUNG BETWEEN TWO SITES QTY: 1	\$ 3,500	\$ 2,800	\$ 860	CRC CONTRACTING INC.	12/10/2018
INSTALL 100' ROHN TOWER W/GUIDE WIRES QTY: 1	\$ 11,711	\$ 9,369	\$ 2,342	CRC CONTRACTING INC.	12/10/2018
STAFFORD COUNTY SPECIAL EXCEPTION PERMIT - TOWER	\$ 10,000	\$ 8,000	\$ 2,000	CRC CONTRACTING INC.	12/10/2018
ELECTRICAL WORK FOR TOWER	\$ 4,320	\$ 3,456	\$ 864	CRC CONTRACTING INC.	12/10/2018
	\$ 300,000	\$ 240,000	\$ 60,000		







# Estimate

Date	Estimate #
12/10/2018	713180

PO Box 997  
 4485 Danube Dr, Ste 8A  
 King George, VA 22485

Project	P.O. No.
KGI Installs	

Project Address
6271 Caledon Road King George, VA 22485

Name / Address
Michele Wido KGI Communications 4485 Danube Dr., Suite 8A King George, VA 22485 kgicomcommunicationsllc@gmail.com

Description	Qty	Cost	Total
3 Mounts	1	6,500.00	6,500.00
Install A&L grounding materials as per grounding one line diagram.	1	4,300.00	4,300.00
Install A&L disposables, i.e. snap-ins, grommets, 3 ways, hose clamps.	1	3,500.00	3,500.00
Electrical work as per CD's, install new feeder in existing conduit, install new grounding test well, and perform ground test once complete. Attain an EP, and perform inspection.	1	8,000.00	8,000.00
Install KGI furnished A&L materials.	1	7,500.00	7,500.00
Perform Sweep/Fiber tests, Antenna Alignment (AAT).	1	3,500.00	3,500.00
Provide Qty 2, 2 man crews after installation for microwave pathing between this site and the donor site for backhaul for 1 working day. KGI is to supply all material.	1	3,500.00	3,500.00

This price is valid for 30 days from date on estimate.	<b>Total</b>	\$36,800.00
--------------------------------------------------------	--------------	-------------

A 30-Day Late Fee of 2% PER MONTH will be charged and accrued on All Invoices Past Due, unless otherwise agreed. CRC accepts all major credit cards. An additional 3% fee is added to all credit card payments.  Ph 301-782-4050; Fx 301-782-4050; DCJS#11-6672 Email: CRCcontracting@gmail.com; www.crc-contracting.com	Customer Signature Acceptance _____
	Date of Customer Acceptance _____





# Estimate

Date	Estimate #
12/10/2018	713181

PO Box 997  
 4485 Danube Dr, Ste 8A  
 King George, VA 22485

Project	P.O. No.
KGI Installs	

Name / Address
Michele Wido KGI Communications 4485 Danube Dr., Suite 8A King George, VA 22485 kgicomcommunicationsllc@gmail.com

Project Address
2770 Brooke Road Stafford, VA 22554

Description	Qty	Cost	Total
Install 100' ROHN 45G Tower	1	11,711.00	11,711.00

This price is valid for 30 days from date on estimate.

**Total** \$11,711.00

A 30-Day Late Fee of 2% PER MONTH will be charged and accrued on All Invoices Past Due, unless otherwise agreed. CRC accepts all major credit cards. An additional 3% fee is added to all credit card payments.

Ph 301-782-4050; Fx 301-782-4050; DCJS#11-6672  
 Email: CRCcontracting@gmail.com; www.crc-contracting.com

Customer Signature Acceptance \_\_\_\_\_

Date of Customer Acceptance \_\_\_\_\_



Sheet  
for  
Comparing  
the quote

**My Order**

**Cart Number:** 151490  
**Payment Method:** Purchase Order

**Date:** 12/11/18 1:57 PM

**Ship To**

**Customer #:** 300000  
**Phone:**

**Bill To**

**Customer #:** 300000  
**Phone:**  
**E-mail:**

**Shipping Method**

**Ship Via:** BEST METHOD - GROUND  
**Comments:**

**Additional**

**Cart Type:** Order  
**PO Number:**

**Products**

Product	Description	Quantity	Unit Meas	Suggested Retail
ANDUGBKIT-0210	1/4"x 2"x 10" Universal Copper Ground Buss Bar, 2 x 10 Holes, with Hardware	1	EA	47.57
AND294800	1/4"x2"x10" Univ 2x10-Hole Cu Buss Bar, Ground Bar No Hdw	1	EA	30.79
ANDHFT1206-24SVL-300	300' Lo Ind Hybrid Trunk Cable 24 SM Fiber + 12 x 6AWG Cond	1	EA	9006.60
ANDSSH-12-4	1/2" Coax 4-Stack SnapStak Hanger Kit 10/Pkg	15	EA	26.29
ANDSSHA-38	3/8" (10mm) Cable OD Universal Barrel Cushion, Used with 1/2" Hangers	40	EA	8.74
ANDARA-22	Anchor Rail Adapter Kit for Snap-In Hanger Kits, 10/Pkg	20	EA	36.36
ANDL4SGRIP	1/2" Pre-Laced Hoisting Grip	2	EA	17.35
BRNYA2CTC14	#2 Lug One 1/4" Hole Long Brl	30	EA	12.81
INF6-14	#6 AWG Lug, One 1/4" Hole, Long Barrel	50	EA	2.40
INFMT-586-G	#6 AWG THHN Green Jacket Stranded Ground Wire	1000	FT	1.28
INF40004	#6 TelcoFlex® Green L4 Class I, Cloth Braid	500	FT	2.09
MMM35-BLUE3/4X66	Blue 3/4" x 66' Electrical Tape	3	EA	9.47
MMM1700C-BROWN	Brown 3/4" x 66' Tape	3	EA	2.75
MMM35-GRAY3/4X66	Gray 3/4" x 66' Electrical Tape	3	EA	9.46
MMM1700C-GREEN	Green 3/4" x 66' Tape	3	EA	2.75
MMM1700C-ORANGE	Orange 3/4" x 66' Tape	3	EA	2.75
MMM1700C-VIOLET	Violet 3/4" x 66' Tape	3	EA	2.75
MMMSUPER-88	Scotch 8.5-mil Vinyl Plastic Electric Tape, 3/4" x 66' Roll	10	EA	11.44
MMM1700C-YELLOW	Yellow 3/4" x 66' Tape	3	EA	2.75
MMM1700C-GREEN	Green 3/4" x 66' Tape	3	EA	2.75
INFHS3-1500-BK-4	4 Ft Black 1-1/2" Adhesive Lined Heat Shrink, 3:1 Ratio	5	EA	22.00
INFHS3-0500-BK-4	4 ft. Black 1/2" Adhesive Lined Heat Shrink, 3:1 Ratio	5	EA	5.76
MIS975LH	2" Wide Resettable Combination Padlock, Brass	4	EA	25.64
LDRPS200S-10PG	1-5/8"x 1-5/8" Long Slot Pre-Galvanized Unistrut, 10' Section	10	EA	27.95
MTSMT-491	1-5/8" Spring Nut w-3/8" Hole	20	EA	2.14
CPRB280FL-ZN	2-Hole Unistrut 1-5/8" Post Base, Zinc Plated	4	EA	98.54
MTSSF-SU7-B	2"-8" OD/Ang 7" Tower Stand off Sector Frame, No Pipe Mnts	1	EA	866.64
MTSWB-K210-B21	21'H x 24"W x 10'L Buriable 2-Post Waveguide Bridge Kit	2	EA	1035.56
INF5810	5/8" x 10' Copper clad Ground Rod	6	EA	43.00
POLJ-1	1/2"-1-1/3" OD Bronze Clamp for #2 Strnd to #10 Solid Wire	16	EA	35.75
ANDUGBKIT-0412	1/4"x 4"x 12" Universal Copper Ground Buss Bar, 4x 13 Holes with Hardware	2	EA	63.66
BRNYS6C	#6 Blue Butt Splice Copper Compression Splice	6	EA	4.61
BRNKS23	6-STR THRU 2-STR SERVIT GROUNDING SPLICE	4	EA	4.97
MTSPML-SC2-72	2"-16" OD Twr Leg Univ Open Face Pipe Mount 2-3/8"OD x 72"	2	EA	521.87
ANDPWRT-606-S	6-Conductor #6 Shielded Power Cable	300	FT	10.93
ANDHFT1206-24SVL-150	150' Lo Ind Hybrid Trunk Cable 24 SM Fiber + 12 x 6AWG Cond	1	EA	5321.30
ANDL4-HMDM-10-SGW-D	10' D-CLASS LDF4 Standard RF Jumper Cable 4.3-10 Male to DIN Male with SureGuard Weatherproofing	24	EA	128.98



12/11/2018

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# Shopping Cart


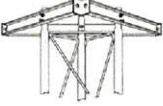




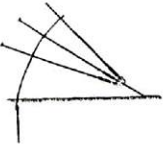
17 Products, 1114 Items [SEND ESTIMATE](#)

Proceed to Checkout

Products	Price	Qty	Total
<p><b>Rohn 45G Standard Section, 10ft (/Rohn-45G)</b> SKU: 45G Availability: <b>Pre Order Now!</b></p>	<p>\$249.05 <del>\$293.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 9</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div>	\$2,241.45
<p><b>Rohn 45G Face Dish Mount (/Rohn-DM45G2)</b> SKU: DM45G2 Availability: <b>Pre Order Now!</b></p>	<p>\$204.00 <del>\$240.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 4</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div>	\$816.00
<p><b>Rohn 45G Hinged Base Plate (/Rohn-BPH45G)</b> SKU: BPH45G Availability: <b>Pre Order Now!</b></p>	<p>\$760.75 <del>\$895.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div>	\$760.75
<p><b>Rohn 45G Guy Bracket Assembly w/ Hardware (/Rohn-GA45GD)</b> SKU: GA45GD Availability: <b>Pre Order Now!</b></p>	<p>\$179.35 <del>\$211.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 4</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div>	\$717.40
<p><b>Rohn 45G Top Plate for TB3 &amp; TB4 Bearing (/Rohn-BPL45G)</b> SKU: BPL45G Availability: <b>Pre Order Now!</b></p>	<p>\$215.05 <del>\$253.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div>	\$215.05

Clear Cart



Products	Price	Qty	Total
 <p><b>Rohn 12ft 25G/45G Tower Erection Fixture (/Rohn-EF2545)</b> SKU: EF2545 Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$931.60 <del>\$1,096.00</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 5px;">1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-top: 5px;">+</div>	\$931.60
 <p><b>Rohn 45G Torque Arm Stabilizer Assembly (/Rohn-TA45)</b> SKU: TA45 Availability: <b>✅ In Stock</b></p>	<p>\$439.45 <del>\$517.00</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 5px;">1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-top: 5px;">+</div>	\$439.45
 <p><b>Rohn 45G Tapered Base Section, 10ft (/Rohn-45TGIA47)</b> SKU: 45TGIA47 Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$1,888.70 <del>\$2,222.00</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 5px;">1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-top: 5px;">+</div>	\$1,888.70
 <p><b>Rohn 45A2G Tower Top Cap Section, 9ft (/Rohn-45AG2)</b> SKU: 45AG2 Availability: <b>✅ In Stock</b></p>	<p>\$336.60 <del>\$396.00</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 5px;">2</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-top: 5px;">+</div>	\$673.20
 <p><b>Rohn Lug 1" - 1 1/4" Rod (/Rohn-CPC1-1-25)</b> SKU: CPC1/1.25 Availability: <b>🚫 Pre Order Now!</b></p>	\$23.84	<div style="border: 1px solid red; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 5px;">6</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-top: 5px;">+</div>	\$143.04
 <p><b>Rohn Ground Rod, Galvanized, 3/8" X 6', w/ Clamp (/Rohn-GR386Z)</b> SKU: GR386Z Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$12.16 <del>\$14.30</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 5px;">6</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-top: 5px;">+</div>	\$72.96
 <p><b>Rohn 45/340017T Package Hardware (/Rohn-GM35)</b> SKU: GM35 Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$124.10 <del>\$146.00</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 5px;">3</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-top: 5px;">+</div>	\$372.30

Remove

Remove

Remove






Remove

Remove

Remove

Remove

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Products	Price	Qty	Total
 <p><b>Rohn Turnbuckle, HDG, 3/4"X 12" Eye &amp; Jaw (/Rohn-3-4TBE-J)</b>                      SKU: 3/4TBE&amp;J                      Availability: <b>🚫 Pre Order Now!</b></p>	<p><del>\$142.00</del>  <b>\$120.70</b></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 24                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	<p><b>\$2,896.80</b></p> <p style="text-align: center;">Remove</p>
 <p><b>Rohn Anchor Rod, 5955 1.44" DBL R 20' (/Rohn-GAC5955TOP)</b>                      SKU: GAC5955TOP                      Availability: <b>🚫 Pre Order Now!</b></p>	<p><del>\$1,430.00</del>  <b>\$1,215.50</b></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 3                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	<p><b>\$3,646.50</b></p> <p style="text-align: center;">Remove</p>
 <p><b>Rohn End Sleeve, HDG, 7/8" Wire Big Grips (/Rohn-GC65270)</b>                      SKU: GC65270                      Availability: <b>🚫 Pre Order Now!</b></p>	<p><del>\$11.78</del>  <b>\$10.01</b></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 24                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	<p><b>\$240.24</b></p> <p style="text-align: center;">Remove</p>
 <p><b>Rohn 3/8 inch Heavy Duty Open Eye Wire Rope Thimble (/Rohn-3-8THH)</b>                      SKU: 3/8THH                      Availability: <b>✅ In Stock</b></p>	<p><del>\$3.17</del>  <b>\$2.69</b></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 24                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	<p><b>\$64.56</b></p> <p style="text-align: center;">Remove</p>
 <p><b>Rohn Guy Wire Reel, Galvanized Stranded, 1/4" (/Rohn-1-4EHS)</b>                      SKU: 1/4EHS                      Availability: <b>✅ In Stock</b></p>	<p><del>\$0.38</del>  <b>\$0.32</b></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 10                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	<p><b>\$320.00</b></p> <p style="text-align: center;">Remove</p>
<a href="#">Clear Cart</a>			

### Order Summary

<b>SUBTOTAL</b> 1114 ITEMS	<b>\$16,440.00</b>
Shipping	\$0.00
Tax	\$0.00
<b>ESTIMATED TOTAL</b>	<b>\$16,440.00</b>

PROCEED TO CHECKOUT

## SHOPPING CART (40 PRODUCTS, 272 ITEMS)



Cambium ePMP 3000 Sector Antenna  
([http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-sector-antenna\\_2.html](http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-sector-antenna_2.html))

\$399.00

([http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-sector-antenna\\_2.html](http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-sector-antenna_2.html))

SKU: #00509100301A

Quantity:

Amount: \$3,192.00

REMOVE



Ubiquiti UFiber GPON OLT SFP, C+ Module- US  
(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-ufiber-gpon-olt-sfp-c-module.html>)

\$77.11 ~~\$86.00~~

(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-ufiber-gpon-olt-sfp-c-module.html>)

SKU: #00509100301A

Quantity:

Amount: \$616.88

REMOVE



Ubiquiti 11 GHz airFiber Dish, 35 dBi  
(<http://www.doublerradius.com/Manufacturers/airFiber-X-Antenna/ubiquiti-11-ghz-airfiber-dish-35-dbi-af-11g35.html>)

\$463.00

(<http://www.doublerradius.com/Manufacturers/airFiber-X-Antenna/ubiquiti-11-ghz-airfiber-dish-35-dbi-af-11g35.html>)

SKU: #00509100301A

Quantity:

Amount: \$926.00

REMOVE





Ubiquiti airFiber 11FX  
(<http://www.doublerradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx.html>)

\$600.00

(<http://www.doublerradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx.html>)

Quantity:

Amount: \$1,200.00

REMOVE



Ubiquiti U Fiber, 8-port GPON OLT  
(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-u-fiber-8-port-gpon-olt.html>)

\$1,454.42 ~~\$1,499.00~~

(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-u-fiber-8-port-gpon-olt.html>)

Quantity:

Amount: \$1,454.42

REMOVE



Ubiquiti U Fiber, Single-Mode Module, 10G, 20-Pack  
(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-20-pack.html>)

\$750.00

(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-20-pack.html>)

Quantity:

Amount: \$3,750.00

Please Call 866-891-3602 for Availability

REMOVE



Shireen Outdoor Dry Gel Tape CAT5e UTP Cable (DC-1030)  
(<http://www.doublerradius.com/Manufacturers/Shireen/Shireen-Outdoor-Dry-Gel-Tape-CAT5e-UTP-Cable-DC-1030.html>)

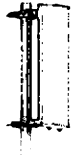
\$152.67 ~~\$235.95~~

(<http://www.doublerradius.com/Manufacturers/Shireen/Shireen-Outdoor-Dry-Gel-Tape-CAT5e-UTP-Cable-DC-1030.html>)

Quantity:



REMOVE



Cambium 900 MHz 60 degree Sector Antenna (Dual Slant)  
(http://www.doublerradius.com/Manufacturers/Antennas\_18/Cambium-900-MHz-60-degree-Sector-Antenna-Dual-Slant.html)

\$316.00 ~~\$395.00~~

SKU: #N009045001A

(http://www.doublerradius.com/Manufacturers/Antennas\_18/Cambium-900-MHz-60-degree-Sector-Antenna-Dual-Slant.html)

Quantity:

4

Amount: \$1,264.00

REMOVE



Cambium 900 MHz PMP 450i Connectorized Access Point  
(http://www.doublerradius.com/Manufacturers/PMP-450i/Cambium-900-MHz-PMP-450i-Connectorized-Access-Point.html)

\$2,316.00 ~~\$2,895.00~~

SKU: #C009045A001A

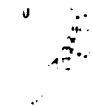
(http://www.doublerradius.com/Manufacturers/PMP-450i/Cambium-900-MHz-PMP-450i-Connectorized-Access-Point.html)

Quantity:

4

Amount: \$9,264.00

REMOVE



Ubiquiti airFiber, 2Gbps+ Backhaul, 24GHz - US Version  
(http://www.doublerradius.com/Manufacturers/airFiber/Ubiquiti-AirFiber-24-GHz-2Gbps-Backhaul-AF24HD-US-VERSION.html)

\$3,212.86

SKU: #AF24HD(US)

(http://www.doublerradius.com/Manufacturers/airFiber/Ubiquiti-AirFiber-24-GHz-2Gbps-Backhaul-AF24HD-US-VERSION.html)

Quantity:

2

Amount: \$6,425.72

REMOVE



Ubiquiti airFiber 11FX Low Band Duplexer Accessory  
(<http://www.doubleradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx-low-band-duplexer-accessory.html>)

\$183.17 ~~\$199.00~~

SKU: #AF-11FX-DUP-L

(<http://www.doubleradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx-low-band-duplexer-accessory.html>)

Quantity:

Amount: \$549.51

REMOVE



Ubiquiti airFiber 11FX High Band Duplexer Accessory  
(<http://www.doubleradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx-high-band-duplexer-accessory.html>)

\$183.17 ~~\$199.00~~

SKU: #AF-11FX-DUP-H

(<http://www.doubleradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx-high-band-duplexer-accessory.html>)

Quantity:

Amount: \$549.51

REMOVE



RF Elements TwistPort Adaptor for ePMP 2000  
(<http://www.doubleradius.com/Manufacturers/TwistPort-Adaptors/rf-elements-twistport-adaptor-for-epmp-2000.html>)

\$44.90

SKU: #TP-ADAP-E2K

(<http://www.doubleradius.com/Manufacturers/TwistPort-Adaptors/rf-elements-twistport-adaptor-for-epmp-2000.html>)

Quantity:

Amount: \$359.20

REMOVE



RF Elements Symmetrical Horn Antenna HG3-TP-S30  
(<http://www.doubleradius.com/Manufacturers/Horn-Antennas/rf-elements-symmetrical-horn-antenna-hg3-tp-s30.html>)

\$130.00

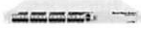
SKU: #HG3-TP-S30

(<http://www.doubleradius.com/Manufacturers/Horn-Antennas/rf-elements-symmetrical-horn-antenna-hg3-tp-s30.html>)

Quantity:

Amount: \$1,040.00

REMOVE



MikroTik Cloud Router Switch 16xSFP+  
(<http://www.doubleradius.com/Manufacturers/MikroTik-Cloud-Router-Switch-16xSFP.html>)

\$387.50

(<http://www.doubleradius.com/Manufacturers/MikroTik-Cloud-Router-Switch-16xSFP.html>)  
SKU: #CRS317-16-16SFP

Quantity:

Amount: \$1,162.50

REMOVE



Ubiquiti EdgePower, 54v, 150W  
(<http://www.doubleradius.com/Manufacturers/ubiquiti-edgepower/ubiquiti-edgepower-54v-150w.html>)

\$183.63 ~~\$195.00~~

(<http://www.doubleradius.com/Manufacturers/ubiquiti-edgepower/ubiquiti-edgepower-54v-150w.html>)  
SKU: #EP-54V-150W

Quantity:

Amount: \$3,856.23

Please Call 866-891-3602 for Availability

REMOVE



Ubiquiti FiberPOE, G2  
(<http://www.doubleradius.com/Manufacturers/PoE/ubiquiti-fiberpoe-g2.html>)

\$28.53 ~~\$29.00~~

SKU: #F-POE-G2

(<http://www.doubleradius.com/Manufacturers/PoE/ubiquiti-fiberpoe-g2.html>)

Quantity:

Amount: \$599.13

Please Call 866-891-3602 for Availability

REMOVE



MikroTik Cloud Core Router CCR1072-1G-8S+  
(<http://www.doublerradius.com/Manufacturers/Ethernet-Routers/Mikrotik-Cloud-Core-Router-CCR1072-1G-8S.html>)

\$2,965.28

(<http://www.doublerradius.com/Manufacturers/Ethernet-Routers/Mikrotik-Cloud-Core-Router-CCR1072-1G-8S.html>)

Quantity:

Amount: \$8,895.84

REMOVE



Ubiquiti EdgePoint WISP switch, 16-port  
(<http://www.doublerradius.com/Manufacturers/EdgePoint/Ubiquiti-EdgePoint-16-Port-Switch.html>)

\$513.55 ~~\$529.00~~

(<http://www.doublerradius.com/Manufacturers/EdgePoint/Ubiquiti-EdgePoint-16-Port-Switch.html>)

Quantity:

Amount: \$2,054.20

Please Call 866-891-3602 for Availability

REMOVE



Cambium PMP 450m Access Point  
(<http://www.doublerradius.com/Manufacturers/PMP-450m/Cambium-PMP-450m-Access-Point.html>)

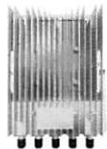
\$5,596.00 ~~\$6,995.00~~

(<http://www.doublerradius.com/Manufacturers/PMP-450m/Cambium-PMP-450m-Access-Point.html>)

Quantity:

Amount: \$33,576.00

REMOVE



Baicells Nova-436 Outdoor TDD Base Station  
(<http://www.doublerradius.com/Manufacturers/nova/baicells-nova-436-outdoor-tdd-base-station.html>)

\$5,499.00

(<http://www.doublerradius.com/Manufacturers/nova/baicells-nova-436-outdoor-tdd-base-station.html>)

Quantity:

Amount: \$32,994.00

REMOVE



KP Performance Two 3 GHz 65, ±45 Degree Slant 18dBi, 90 Sector Antennas  
(<http://www.doubleradius.com/Manufacturers/kp-performance-1/kp-performance-two-3-ghz-65-45-degree-slant-18dbi-90-sector-antennas.html>)

\$534.99

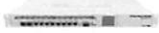
(<http://www.doubleradius.com/Manufacturers/kp-performance-1/kp-performance-two-3-ghz-65-45-degree-slant-18dbi-90-sector-antennas.html>)

SKU: #KP-3535-65SA

Quantity:

Amount: \$3,209.94

REMOVE



MikroTik CCR1009-7G-1C-1S+ Cloud Core Router  
(<http://www.doubleradius.com/Manufacturers/Ethernet-Routers/mikrotik-cloud-core-router-ccr1009-7g-1c-1s.html>)

\$479.16

(<http://www.doubleradius.com/Manufacturers/Ethernet-Routers/mikrotik-cloud-core-router-ccr1009-7g-1c-1s.html>)

SKU: #CCR1009-7G-1C-1S+

Quantity:

Amount: \$479.16

REMOVE



Cambium CMM5 to uGPS Shielded Cable, 20 meter  
([http://www.doubleradius.com/Manufacturers/Accessories\\_34/cambium-cmm5-to-ugps-shielded-cable-20-meter.html](http://www.doubleradius.com/Manufacturers/Accessories_34/cambium-cmm5-to-ugps-shielded-cable-20-meter.html))

\$169.00

([http://www.doubleradius.com/Manufacturers/Accessories\\_34/cambium-cmm5-to-ugps-shielded-cable-20-meter.html](http://www.doubleradius.com/Manufacturers/Accessories_34/cambium-cmm5-to-ugps-shielded-cable-20-meter.html))

SKU: #N000000L105A

Quantity:

Amount: \$169.00

REMOVE



Ubiquiti U Fiber, Single-Mode Module, 10G, 2-Pack  
(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-2-pack.html>)

\$85.00

(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-2-pack.html>)

SKU: #UF-SM-10G

Quantity:

Amount: \$1,700.00

Please Call 866-891-3602 for Availability

REMOVE



MikroTik Encloser SFP+ 3m Direct Attach Cable  
(<http://www.doubleradius.com/Manufacturers/Interfaces/Mikrotik-SFP-direct-attach-cable-3m-SDA0003.html>)

\$41.66

(<http://www.doubleradius.com/Manufacturers/Interfaces/Mikrotik-SFP-direct-attach-cable-3m-SDA0003.html>)

SKU: #S-DA0003

Quantity:

Amount: \$833.20

REMOVE



IgniteNet MetroLinq Alignment Scope  
(<http://www.doubleradius.com/Manufacturers/ignitenet-accessories/IgniteNet-MetroLinq-Alignment-Scope.html>)

\$96.34 ~~\$99.00~~

(<http://www.doubleradius.com/Manufacturers/ignitenet-accessories/IgniteNet-MetroLinq-Alignment-Scope.html>)

SKU: #IC-SCOPE-9X50

Quantity:

Amount: \$385.36

REMOVE



Ubiquiti U Fiber, Single-Mode Module, 10G, 20-Pack  
(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-20-pack.html>)

\$750.00

(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-20-pack.html>)

SKU: #UF-SM-10G-20

Quantity:

Amount: \$1,500.00

Please Call 866-891-3602 for Availability

9

REMOVE



MikroTik 48 to 24V Gigabit PoE Converter

(<http://www.doubleradius.com/Manufacturers/Mikrotik-Accessories/Mikrotik-48-to-24V-Gigabit-PoE-Converter-RBGPOE-CON-HP.html>)

\$24.16

(<http://www.doubleradius.com/Manufacturers/Mikrotik-Accessories/Mikrotik-48-to-24V-Gigabit-PoE-Converter-RBGPOE-CON-HP.html>)

Quantity:

Amount: \$483.20

REMOVE



MikroTik Encloser S-31DLC20D

(<http://www.doubleradius.com/Manufacturers/Interfaces/Mikrotik-1-25G-SFP-Transceiver-1310nm-Dual-LC-Connector-S-31DLC20D.html>)

\$24.70

(<http://www.doubleradius.com/Manufacturers/Interfaces/Mikrotik-1-25G-SFP-Transceiver-1310nm-Dual-LC-Connector-S-31DLC20D.html>)

Quantity:

Amount: \$247.00

REMOVE



Ubiquiti U Fiber, Multi-Mode Module, 1G, 2-Pack

(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-u-fiber-multi-mode-module-1g-2-pack.html>)

\$16.95 ~~\$17.00~~

(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-u-fiber-multi-mode-module-1g-2-pack.html>)

Quantity:

Amount: \$203.40

Please Call 866-891-3602 for Availability

REMOVE



Cambium Power Supply, Single Output Switching, 30V, 240W, HLG-240H  
([http://www.doubleradius.com/Manufacturers/Accessories\\_34/Cambium-Power-Supply-Single-Output-Switching-30V-240W-HLG-240H.html](http://www.doubleradius.com/Manufacturers/Accessories_34/Cambium-Power-Supply-Single-Output-Switching-30V-240W-HLG-240H.html))

\$160.00 ~~\$200.00~~

([http://www.doubleradius.com/Manufacturers/Accessories\\_34/Cambium-Power-Supply-Single-Output-Switching-30V-240W-HLG-240H.html](http://www.doubleradius.com/Manufacturers/Accessories_34/Cambium-Power-Supply-Single-Output-Switching-30V-240W-HLG-240H.html))  
SKU: #N000000L055A

Quantity:

Amount: \$960.00

REMOVE



Ubiquiti Power Cable  
(<http://www.doubleradius.com/Manufacturers/EdgePoint/ubiquiti-power-cable-12-awg.html>)

\$658.52

(<http://www.doubleradius.com/Manufacturers/EdgePoint/ubiquiti-power-cable-12-awg.html>)  
SKU: #PC12

Quantity:

Amount: \$1,975.56

REMOVE



Cambium CMM5 Power and Sync Injector 56V  
([http://www.doubleradius.com/Manufacturers/Accessories\\_34/cambium-cmm5-power-and-sync-injector-56v.html](http://www.doubleradius.com/Manufacturers/Accessories_34/cambium-cmm5-power-and-sync-injector-56v.html))

\$1,295.00

([http://www.doubleradius.com/Manufacturers/Accessories\\_34/cambium-cmm5-power-and-sync-injector-56v.html](http://www.doubleradius.com/Manufacturers/Accessories_34/cambium-cmm5-power-and-sync-injector-56v.html))  
SKU: #C000000L556A

Quantity:

Amount: \$6,475.00

REMOVE



MikroTik S+RJ10 6-speed RJ-45 Module  
(<http://www.doubleradius.com/Manufacturers/Interfaces/mikrotik-srj10-6-speed-rj-45-module.html>)

\$69.45

(<http://www.doubleradius.com/Manufacturers/Interfaces/mikrotik-srj10-6-speed-rj-45-module.html>)  
SKU: #SRJ10

Quantity:

Amount: \$277.80



REMOVE

11



Ubiquiti EdgePower 54V, 150W AC to DC PSU Module  
(<http://www.doubleradius.com/Manufacturers/ubiquiti-edgepower/ubiquiti-edgepower-54v-150w-ac-to-dc-psu-module.html>)

\$70.64 ~~\$79.00~~

(<http://www.doubleradius.com/Manufacturers/ubiquiti-edgepower/ubiquiti-edgepower-54v-150w-ac-to-dc-psu-module.html>)

SKU: #EP-54V-150W-AC

Quantity:

Amount: \$706.40

REMOVE



Ubiquiti EdgeSwitch, 16-Port, 10G  
(<http://www.doubleradius.com/Manufacturers/EdgeSwitch/ubiquiti-edgeswitch-16-port-10g.html>)

\$625.13 ~~\$669.00~~

(<http://www.doubleradius.com/Manufacturers/EdgeSwitch/ubiquiti-edgeswitch-16-port-10g.html>)

SKU: #ES-16-10G

Quantity:

Amount: \$2,500.52

Please Call 866-891-3602 for Availability

REMOVE



Ubiquiti ToughCable Connectors, 100 pieces - US Version  
(<http://www.doubleradius.com/Manufacturers/TOUGHCable/Ubiquiti-Tough-Cable-Connectors-100pc.html>)

\$48.00 ~~\$49.00~~

(<http://www.doubleradius.com/Manufacturers/TOUGHCable/Ubiquiti-Tough-Cable-Connectors-100pc.html>)

SKU: #TC-Conn

Quantity:

Amount: \$480.00

REMOVE



Shireen Outdoor CAT6 FTP Shielded 1000ft Spool (DC-2021)  
(<http://www.doubleradius.com/Manufacturers/Shireen/Shireen-Outdoor-CAT6-FTP-Shielded-1000ft-Spool-DC-2021.html>)

\$199.74 ~~\$327.47~~

(<http://www.doubleradius.com/Manufacturers/Shireen/Shireen-Outdoor-CAT6-FTP-Shielded-1000ft-Spool-DC-2021.html>)

SKU: #DC-2021 (Shireen CAT6)

Quantity:

FTP-Shielded-1000ft-Spool-DC-2021.html)

2

Amount: \$399.48

REMOVE

Cambium ePMP 3000 5 GHz Access Point Radio  
(http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-5-ghz-access-point-radio.html)

\$799.00

(http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-5-ghz-access-point-radio.html)

Quantity:

8

Amount: \$6,392.00

REMOVE

**ORDER SUMMARY**

**Subtotal (272 items)**

**\$143,411.50**

Ship to: 22485

Shipping

\$2,657.17

Tax

\$0.00

Have a Promo Code?

**Estimated Total**

**\$146,068.67**

PROCEED TO CHECKOUT

CONTINUE SHOPPING ()



# Quote

Date	Quote #
5/23/2018	251762

## DoubleRadius, Inc.

2022 Van Buren Ave  
 Indian Trail NC 28079  
 US  
 704-927-6100

<b>Bill To</b>
Juan Marte KGI Communications, LLC 4485 DANUBE DR #8A KING GEORGE VA 22485 United States

<b>Ship To</b>
Juan Marte KGI Communications, LLC 4485 DANUBE DR #8A KING GEORGE VA 22485 United States

<b>Expires</b>
6/22/2018

Item	Quantity	Description	Item Notes	Unit Price	Extended
AF-11FX(US)	2	Ubiquiti airFiber 11FX		600.00	1,200.00
AF-11FX-DUP-H	4	Ubiquiti airFiber 11FX High Band Duplexer		199.00	796.00
AF-11G35(US)	2	*Freight Item* Ubiquiti 11 GHz airFiber Dish, 35 dBi - 11GHz 35dBi dish antenna for AF-11FX radio. H/V polarity with option to configure to slant 45 degree polarity		337.50	675.00
FCC Part 101 Project Coordination & FCC Filing	1	Includes Frequency Study, Prior Coordination Notice, Application Filing, and FCC Schedule K Completion		525.00	525.00
FCC Pass-Thru Service Fee New Site	2	FCC Pass-Thru Service Fee New Site		687.50	1,375.00
UPS® Ground	1			458.28	458.28

960 240  
 636.8 159.2  
 540 135  
 420 105  
 1100 275  
 366.79 165

<b>Total</b>	<b>\$5,029.28</b>
--------------	-------------------



# Quote

## DoubleRadius, Inc.

2022 Van Buren Ave  
 Indian Trail NC 28079  
 US  
 704-927-6100

Date	Quote #
9/19/2018	257445

Bill To
Juan Marte KGI Communications, LLC 4485 DANUBE DR #8A KING GEORGE VA 22485 United States

Ship To
Juan Marte KGI Communications, LLC 4485 DANUBE DR #8A KING GEORGE VA 22485 United States

Expires
10/19/2018

Item	Quantity	Description	Item Notes	Unit Price	Extended
C110082B043A	1	Cambium PTP 820C Radio 11WGHz, TR500, Ch1W6, Hi, 11185-11485MHz		5,040.00	5,040.00
C110082B044A	1	Cambium PTP 820C Radio 11WGHz, TR500, Ch1W6, Lo, 10695-10955MHz		5,040.00	5,040.00
C000000L033A	4	Cambium Gigabit Surge Suppressor (56V) (C000000L033A)		40.00	160.00
N000065L001C	2	Cambium PTP 650 AC Power Injector - Replaces N000065L001B		64.00	128.00
N000082L014A	2	Cambium PTP 820 Glands_x5_KIT		23.20	46.40
N000082L016A	1	Cambium PTP 820 CAT5E Outdoor 100m drum		208.80	208.80
N000082L017A	4	Cambium PTP 820 Grounding Kit for CAT5e F/UTP 8mm cable		12.00	48.00
N000082L022A	2	Cambium PTP 820 PoE Injector all outdoor, redundant DC input, +24VDC support		530.40	1,060.80
N000082L073A	2	Cambium PTP 820 GBE_Connector_kit		18.40	36.80
N000082L116A	2	Cambium PTP 820 GROUNd CABLE FOR IDU and ODU		12.00	24.00
N000082L042A	2	Cambium PTP 820 Act.Key - GE port, per additional port		76.00	152.00
N000082L056A	4	Cambium PTP 820 Act.Key - XPIC, per Tx Chan		184.00	736.00
N000082L027A	2	Cambium PTP 820C Act.Key - 2nd Core Activation		1,900.00	3,800.00
N000082L079A	4	Cambium PTP 820C Act.Key - Capacity 650M with ACM Enabled, per Tx Chan		1,200.00	4,800.00
N110082D072A	2	Cambium PTP 820 2' ANT,SP,11GHz.RFU-C TYPE&Std UBR100 - Andrew		440.00	880.00
N110082L082A	2	Cambium PTP 820C OMT KIT 10-11GHz		700.00	1,400.00
N110082L092A	2	Cambium PTP 820 RFU-C 10_11GHz OMT Interface-Andrew		88.80	177.60
UPS® Ground	1			0.00	0.00

<b>Total</b>	<b>\$23,738.40</b>
--------------	--------------------

# Proposed KGI Broadband Deployment for VATI Grant

 Widewater State Park

 Phase 1

 Phase 2

Widewater Peninsula

Potomac River

Mongeon Parcel  
(PH. 2 Tower Location)

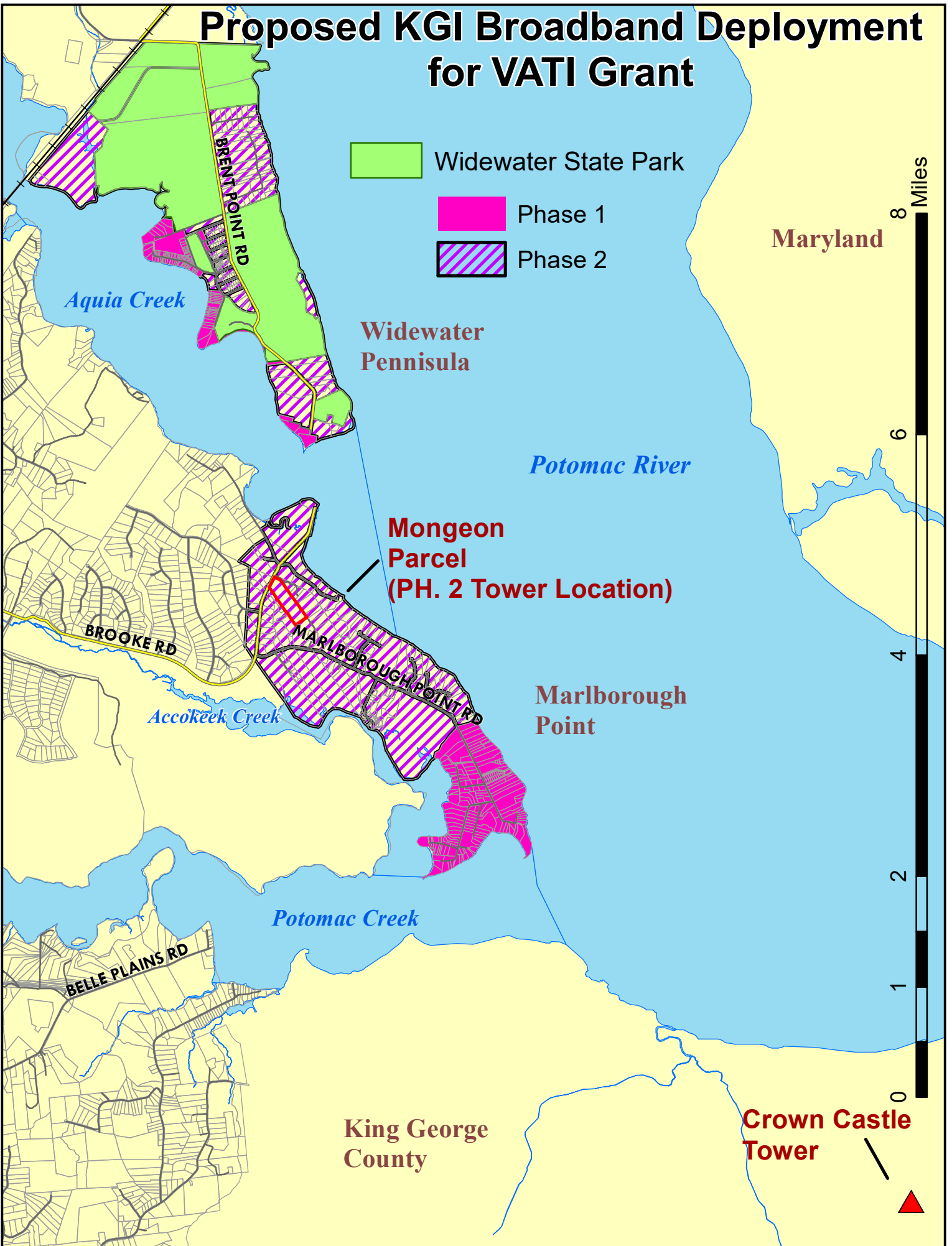
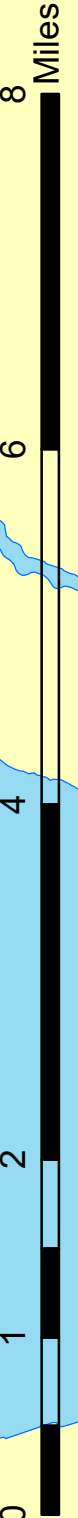
Marlborough Point

Potomac Creek

King George County

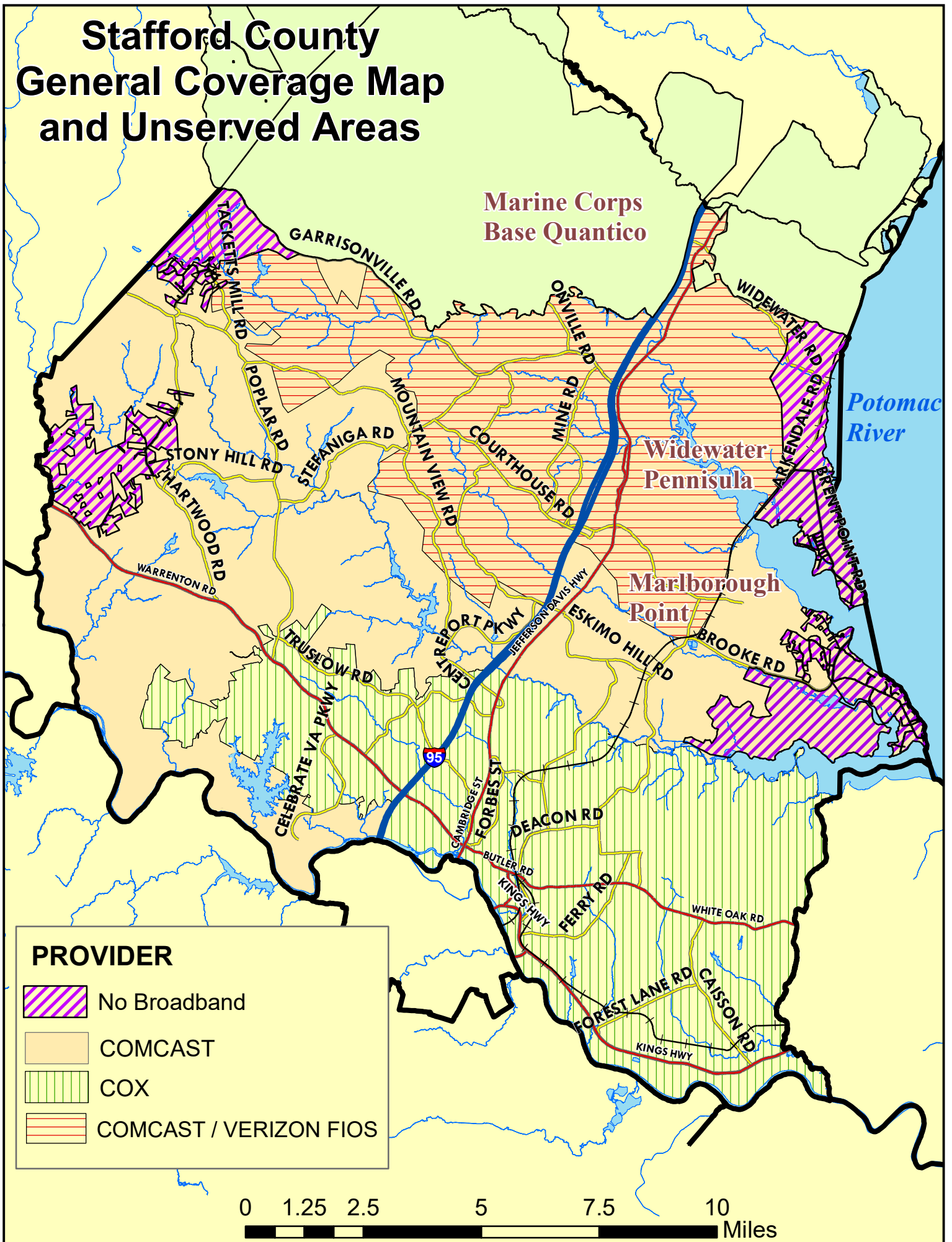
Crown Castle Tower

Maryland





# Stafford County General Coverage Map and Unserved Areas





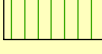
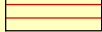
Marine Corps  
Base Quantico

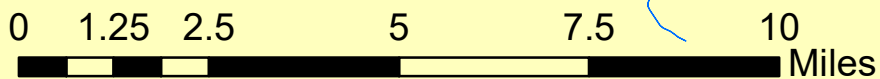
Widewater  
Peninsula

Marlborough  
Point

Potomac  
River

## PROVIDER

-  No Broadband
-  COMCAST
-  COX
-  COMCAST / VERIZON FIOS



BOARD OF SUPERVISORS  
COUNTY OF STAFFORD  
STAFFORD, VIRGINIA

RESOLUTION

At a regular meeting of the Stafford County Board of Supervisors (the Board) held in the Board Chambers, George L. Gordon, Jr., Government Center, Stafford, Virginia, on the 27<sup>th</sup> day of November, 2018:

---

<u>MEMBERS:</u>	<u>VOTE:</u>
Meg Bohmke, Chairman	Yes
Gary F. Snellings, Vice Chairman	Yes
Jack R. Cavalier	Yes
Thomas C. Coen	Yes
L. Mark Dudenhefer	Yes
Wendy E. Maurer	Yes
Cindy C. Shelton	Yes

---

On motion of Ms. Shelton, seconded by Mr. Dudenhefer, which carried by a vote of 7 to 0, the following was adopted:

A RESOLUTION AUTHORIZING THE COUNTY ADMINISTRATOR TO APPLY FOR A VIRGINIA TELECOMMUNICATION INITIATIVE GRANT WITH CO-APPLICANT KGI COMMUNICATIONS, LLC TO EXTEND BROADBAND SERVICE TO UNSERVED AREAS WITHIN GRIFFIS-WIDEWATER AND AQUIA ELECTION DISTRICTS

WHEREAS, the County is seeks to provide an opportunity for residents in the Marlborough Point and Widewater areas within the Griffis-Widewater and Aquia Election Districts to have access to broadband services; and

WHEREAS, the Virginia Department of Housing and Community Development has implemented the Virginia Telecommunications Initiative (VATI), which provides grants to provide financial assistance to supplement construction costs by private sector broadband service providers, in partnership with local units of government to extend service to areas that presently are unserved by any broadband provider; and

WHEREAS, the County seeks to apply for a VATI grant, which may provide up to 80% of the total project cost to extend broadband service to unserved areas; and

WHEREAS, the VATI grant requires that the County partner with a private company as co-applicant, and the County and co-applicant must provide a 20% local match; and

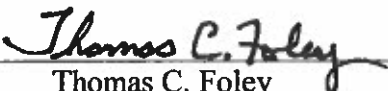
WHEREAS, the County identified KGI Communications, LLC (KGI) as an eligible co-applicant through a Request for Information (RFI #118183), and KGI has proposed to construct and operate fixed broadband access networks in the Marlborough Point and Widewater areas, and provide the 20% local match needed to receive the grant funds; and

WHEREAS, the grant application deadline is December 14, 2018;

NOW, THEREFORE, BE IT RESOLVED by the Stafford County Board of Supervisors on this the 27<sup>th</sup> day of November, 2018, that the County Administrator be and he hereby is authorized to submit a Virginia Telecommunications Initiative grant and with co-applicant KGI Communications, LLC to extend broadband services to the unserved areas of Marlborough Point and Widewater; and

BE IT FURTHER RESOLVED that if awarded, KGI Communications will provide the grant's required 20% local match in an amount not to exceed Sixty Thousand Dollars (\$60,000).

A Copy, teste:

  
Thomas C. Foley  
County Administrator

TCF:mqc





**(RETAIN FOR YOUR RECORDS)  
Form 477 Filing Summary**

FRN: 0026848952 | Data as of: Jun 30, 2018 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Sep 1, 2018 14:31:46

**Filer  
identification**

Section	Question	Response
<b>Filer Information</b>	Provider Name	Complete Residential & Commercial Contracting Inc.
	Holding Company Name	KGI Communications LLC
	SAC ID	
	499 ID	
<b>Data Contact Information</b>	Data Contact Name	Juan Marte
	Data Contact Phone Number	(540) 709-7070 ext: 2
	Data Contact E-mail	juanm@kgicomm.com
<b>Emergency Operations Contact Information</b>	Emergency Operations Name	Juan Marte
	Emergency Operations Phone Number	(301) 323-5157
	Emergency Operations E-mail	juanm@kgicomm.com
<b>Certifying Official Contact Information</b>	Certifying Official Name	Juan Marte
	Certifying Official Phone Number	(540) 709-7070 ext: 2
	Certifying Official E-mail	juanm@kgicomm.com

**Data Submitted**

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	kgi_fixed_broadband_deployment (1).csv	Sep 1, 2018 14:27:49	14
Fixed Broadband Subscription	20180823_FBS_oharej_10_22_8 (1).csv	Sep 1, 2018 14:30:34	5

**Fixed  
Broadband  
Deployment**

**Census Block Counts by State, DBA Name and Technology**

State	DBA Name	Technology	Blocks
Virginia	KGI Communications	Terrestrial Fixed Wireless	14
<b>Total</b>			<b>14</b>

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

**Fixed  
Broadband  
Subscription**

State	Technology	Census Tracts	Consumer	Business / Govt	Total
Virginia	Terrestrial Fixed Wireless	5	22	0	22
<b>Total</b>		<b>5</b>	<b>22</b>	<b>0</b>	<b>22</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
100.000	10.000	22	0	22
<b>Total</b>		<b>22</b>	<b>0</b>	<b>22</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Terrestrial Fixed Wireless	100.000	10.000	22	0	22
<b>Total</b>			<b>22</b>	<b>0</b>	<b>22</b>

**Fixed  
Broadband  
Subscription**

State	Technology	Census Tracts	Consumer	Business / Govt	Total
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<b>Total</b>		<b>5</b>	<b>22</b>	<b>0</b>	<b>22</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
100.000	10.000	22	0	22
<b>Total</b>		<b>22</b>	<b>0</b>	<b>22</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Terrestrial Fixed Wireless	100.000	10.000	22	0	22
<b>Total</b>			<b>22</b>	<b>0</b>	<b>22</b>



# Memorandum

---

**DATE:** December 13, 2018

**TO:** To Whom it May Concern

**FROM:** Michael Q. Cannon  
Chief Technology Officer

**RE: VATI In-Kind Contributions/Services**

Stafford County is offering the following in-kinds services for the VATI grant and the partnership with KGI Communications LLC.

GIS Mapping services labor valued at \$75/hour including the production of maps contained in VATI grant application

Grants Administration valued at \$90/hour including preparation of the grant application, development of Stafford County-related supporting documents

Assistance with permit applications and ensuring that the permit applications get processed in a timely fashion.

Public outreach assistance. Stafford County citizen engagement staff is prepared to issue press releases and to assist KGI with generating public awareness in the proposed service areas should Stafford County and KGI receive a VATI grant



# Estimate

Date	Estimate #
12/10/2018	713180

PO Box 997  
 4485 Danube Dr, Ste 8A  
 King George, VA 22485

Project	P.O. No.
KGI Installs	

Name / Address
Michele Wido KGI Communications 4485 Danube Dr., Suite 8A King George, VA 22485 kgicomcommunicationsllc@gmail.com

Project Address
6271 Caledon Road King George, VA 22485

Description	Qty	Cost	Total
3 Mounts	1	6,500.00	6,500.00
Install A&L grounding materials as per grounding one line diagram.	1	4,300.00	4,300.00
Install A&L disposables, i.e. snap-ins, grommets, 3 ways, hose clamps.	1	3,500.00	3,500.00
Electrical work as per CD's, install new feeder in existing conduit, install new grounding test well, and perform ground test once complete. Attain an EP, and perform inspection.	1	8,000.00	8,000.00
Install KGI furnished A&L materials.	1	7,500.00	7,500.00
Perform Sweep/Fiber tests, Antenna Alignment (AAT).	1	3,500.00	3,500.00
Provide Qty 2, 2 man crews after installation for microwave pathing between this site and the donor site for backhaul for 1 working day. KGI is to supply all material.	1	3,500.00	3,500.00

This price is valid for 30 days from date on estimate.

**Total** \$36,800.00

A 30-Day Late Fee of 2% PER MONTH will be charged and accrued on All Invoices Past Due, unless otherwise agreed. CRC accepts all major credit cards. An additional 3% fee is added to all credit card payments.

Ph 301-782-4050; Fx 301-782-4050; DCJS#11-6672  
 Email: CRCcontracting@gmail.com; www.crc-contracting.com

Customer Signature Acceptance \_\_\_\_\_

Date of Customer Acceptance \_\_\_\_\_



# Estimate

Date	Estimate #
12/10/2018	713181

PO Box 997  
 4485 Danube Dr, Ste 8A  
 King George, VA 22485

Project	P.O. No.
KGI Installs	

Name / Address
Michele Wido KGI Communications 4485 Danube Dr., Suite 8A King George, VA 22485 kgicomcommunicationsllc@gmail.com

Project Address
2770 Brooke Road Stafford, VA 22554

Description	Qty	Cost	Total
Install 100' ROHN 45G Tower	1	11,711.00	11,711.00

This price is valid for 30 days from date on estimate.

**Total** \$11,711.00

A 30-Day Late Fee of 2% PER MONTH will be charged and accrued on All Invoices Past Due, unless otherwise agreed. CRC accepts all major credit cards. An additional 3% fee is added to all credit card payments.

Ph 301-782-4050; Fx 301-782-4050; DCJS#11-6672  
 Email: CRCcontracting@gmail.com; www.crc-contracting.com

Customer Signature Acceptance \_\_\_\_\_

Date of Customer Acceptance \_\_\_\_\_





Sheet  
for  
Comparing  
the quote

**My Order**

**Cart Number:** 151490  
**Payment Method:** Purchase Order

**Date:** 12/11/18 1:57 PM

**Ship To**

**Customer #:** 300000  
**Phone:**

**Bill To**

**Customer #:** 300000  
**Phone:**  
**E-mail:**

**Shipping Method**

**Ship Via:** BEST METHOD - GROUND  
**Comments:**

**Additional**

**Cart Type:** Order  
**PO Number:**

**Products**

Product	Description	Quantity	Unit Meas	Suggested Retail
ANDUGBKIT-0210	1/4"x 2"x 10" Universal Copper Ground Buss Bar, 2 x 10 Holes, with Hardware	1	EA	47.57
AND294800	1/4"x2"x10" Univ 2x10-Hole Cu Buss Bar, Ground Bar No Hdw	1	EA	30.79
ANDHFT1206-24SVL-300	300' Lo Ind Hybrid Trunk Cable 24 SM Fiber + 12 x 6AWG Cond	1	EA	9006.60
ANDSSH-12-4	1/2" Coax 4-Stack SnapStak Hanger Kit 10/Pkg	15	EA	26.29
ANDSSHA-38	3/8" (10mm) Cable OD Universal Barrel Cushion, Used with 1/2" Hangers	40	EA	8.74
ANDARA-22	Anchor Rail Adapter Kit for Snap-In Hanger Kits, 10/Pkg	20	EA	36.36
ANDL4SGRIP	1/2" Pre-Laced Hoisting Grip	2	EA	17.35
BRNYA2CTC14	#2 Lug One 1/4" Hole Long Brl	30	EA	12.81
INF6-14	#6 AWG Lug, One 1/4" Hole, Long Barrel	50	EA	2.40
INFMT-586-G	#6 AWG THHN Green Jacket Stranded Ground Wire	1000	FT	1.28
INF40004	#6 TelcoFlex® Green L4 Class I, Cloth Braid	500	FT	2.09
MMM35-BLUE3/4X66	Blue 3/4" x 66' Electrical Tape	3	EA	9.47
MMM1700C-BROWN	Brown 3/4" x 66' Tape	3	EA	2.75
MMM35-GRAY3/4X66	Gray 3/4" x 66' Electrical Tape	3	EA	9.46
MMM1700C-GREEN	Green 3/4" x 66' Tape	3	EA	2.75
MMM1700C-ORANGE	Orange 3/4" x 66' Tape	3	EA	2.75
MMM1700C-VIOLET	Violet 3/4" x 66' Tape	3	EA	2.75
MMMSUPER-88	Scotch 8.5-mil Vinyl Plastic Electric Tape, 3/4" x 66' Roll	10	EA	11.44
MMM1700C-YELLOW	Yellow 3/4" x 66' Tape	3	EA	2.75
MMM1700C-GREEN	Green 3/4" x 66' Tape	3	EA	2.75
INFHS3-1500-BK-4	4 Ft Black 1-1/2" Adhesive Lined Heat Shrink, 3:1 Ratio	5	EA	22.00
INFHS3-0500-BK-4	4 ft. Black 1/2" Adhesive Lined Heat Shrink, 3:1 Ratio	5	EA	5.76
MIS975LH	2" Wide Resettable Combination Padlock, Brass	4	EA	25.64
LDRPS200S-10PG	1-5/8"x 1-5/8" Long Slot Pre-Galvanized Unistrut, 10' Section	10	EA	27.95
MTSMT-491	1-5/8" Spring Nut w-3/8" Hole	20	EA	2.14
CPRB280FL-ZN	2-Hole Unistrut 1-5/8" Post Base, Zinc Plated	4	EA	98.54
MTSSF-SU7-B	2"-8" OD/Ang 7" Tower Stand off Sector Frame, No Pipe Mnts	1	EA	866.64
MTSWB-K210-B21	21'H x 24"W x 10'L Buriable 2-Post Waveguide Bridge Kit	2	EA	1035.56
INF5810	5/8" x 10' Copper clad Ground Rod	6	EA	43.00
POLJ-1	1/2"-1-1/3" OD Bronze Clamp for #2 Strnd to #10 Solid Wire	16	EA	35.75
ANDUGBKIT-0412	1/4"x 4"x 12" Universal Copper Ground Buss Bar, 4x 13 Holes with Hardware	2	EA	63.66
BRNYS6C	#6 Blue Butt Splice Copper Compression Splice	6	EA	4.61
BRNKS23	6-STR THRU 2-STR SERVIT GROUNDING SPLICE	4	EA	4.97
MTSPML-SC2-72	2"-16" OD Twr Leg Univ Open Face Pipe Mount 2-3/8"OD x 72"	2	EA	521.87
ANDPWRT-606-S	6-Conductor #6 Shielded Power Cable	300	FT	10.93
ANDHFT1206-24SVL-150	150' Lo Ind Hybrid Trunk Cable 24 SM Fiber + 12 x 6AWG Cond	1	EA	5321.30
ANDL4-HMDM-10-SGW-D	10' D-CLASS LDF4 Standard RF Jumper Cable 4.3-10 Male to DIN Male with SureGuard Weatherproofing	24	EA	128.98



12/11/2018

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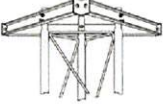




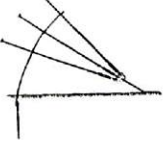
# Shopping Cart

17 Products, 1114 Items [SEND ESTIMATE](#)






Proceed to Checkout

Products	Price	Qty	Total
<p><b>Rohn 45G Standard Section, 10ft (/Rohn-45G)</b> SKU: 45G Availability: <b>Pre Order Now!</b></p>	<p>\$249.05 <del>\$293.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 9</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div> <p>Remove</p>	\$2,241.45
<p><b>Rohn 45G Face Dish Mount (/Rohn-DM45G2)</b> SKU: DM45G2 Availability: <b>Pre Order Now!</b></p>	<p>\$204.00 <del>\$240.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 4</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div> <p>Remove</p>	\$816.00
<p><b>Rohn 45G Hinged Base Plate (/Rohn-BPH45G)</b> SKU: BPH45G Availability: <b>Pre Order Now!</b></p>	<p>\$760.75 <del>\$895.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div> <p>Remove</p>	\$760.75
<p><b>Rohn 45G Guy Bracket Assembly w/ Hardware (/Rohn-GA45GD)</b> SKU: GA45GD Availability: <b>Pre Order Now!</b></p>	<p>\$179.35 <del>\$211.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 4</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div> <p>Remove</p>	\$717.40
<p><b>Rohn 45G Top Plate for TB3 &amp; TB4 Bearing (/Rohn-BPL45G)</b> SKU: BPL45G Availability: <b>Pre Order Now!</b></p>	<p>\$215.05 <del>\$253.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">- 1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block;">+</div> <p>Remove</p>	\$215.05

Clear Cart

Products	Price	Qty	Total
 <p><b>Rohn 12ft 25G/45G Tower Erection Fixture (/Rohn-EF2545)</b> SKU: EF2545 Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$931.60 <del>\$1,096.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 20px; text-align: center;">1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; width: 20px; text-align: center;">+</div>	\$931.60
 <p><b>Rohn 45G Torque Arm Stabilizer Assembly (/Rohn-TA45)</b> SKU: TA45 Availability: <b>✅ In Stock</b></p>	<p>\$439.45 <del>\$517.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 20px; text-align: center;">1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; width: 20px; text-align: center;">+</div>	\$439.45
 <p><b>Rohn 45G Tapered Base Section, 10ft (/Rohn-45TGIA47)</b> SKU: 45TGIA47 Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$1,888.70 <del>\$2,222.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 20px; text-align: center;">1</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; width: 20px; text-align: center;">+</div>	\$1,888.70
 <p><b>Rohn 45A2G Tower Top Cap Section, 9ft (/Rohn-45AG2)</b> SKU: 45AG2 Availability: <b>✅ In Stock</b></p>	<p>\$336.60 <del>\$396.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 20px; text-align: center;">2</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; width: 20px; text-align: center;">+</div>	\$673.20
 <p><b>Rohn Lug 1" - 1 1/4" Rod (/Rohn-CPC1-1-25)</b> SKU: CPC1/1.25 Availability: <b>🚫 Pre Order Now!</b></p>	\$23.84	<div style="border: 1px solid black; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 20px; text-align: center;">6</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; width: 20px; text-align: center;">+</div>	\$143.04
 <p><b>Rohn Ground Rod, Galvanized, 3/8" X 6', w/ Clamp (/Rohn-GR386Z)</b> SKU: GR386Z Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$12.16 <del>\$14.30</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 20px; text-align: center;">6</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; width: 20px; text-align: center;">+</div>	\$72.96
 <p><b>Rohn 45/340017T Package Hardware (/Rohn-GM35)</b> SKU: GM35 Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$124.10 <del>\$146.00</del></p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">-</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; width: 20px; text-align: center;">3</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; width: 20px; text-align: center;">+</div>	\$372.30

Clear Cart

Products	Price	Qty	Total
 <p><b>Rohn Turnbuckle, HDG, 3/4"X 12" Eye &amp; Jaw (/Rohn-3-4TBE-J)</b>                      SKU: 3/4TBE&amp;J                      Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$120.70  <del>\$142.00</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 24                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	\$2,896.80
 <p><b>Rohn Anchor Rod, 5955 1.44" DBL R 20' (/Rohn-GAC5955TOP)</b>                      SKU: GAC5955TOP                      Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$1,215.50  <del>\$1,430.00</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 3                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	\$3,646.50
 <p><b>Rohn End Sleeve, HDG, 7/8" Wire Big Grips (/Rohn-GC65270)</b>                      SKU: GC65270                      Availability: <b>🚫 Pre Order Now!</b></p>	<p>\$10.01  <del>\$11.78</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 24                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	\$240.24
 <p><b>Rohn 3/8 inch Heavy Duty Open Eye Wire Rope Thimble (/Rohn-3-8THH)</b>                      SKU: 3/8THH                      Availability: <b>✅ In Stock</b></p>	<p>\$2.69  <del>\$3.17</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 24                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	\$64.56
 <p><b>Rohn Guy Wire Reel, Galvanized Stranded, 1/4" (/Rohn-1-4EHS)</b>                      SKU: 1/4EHS                      Availability: <b>✅ In Stock</b></p>	<p>\$0.32  <del>\$0.38</del></p>	<div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">-</span> 10                 </div> <div style="border: 1px solid red; padding: 2px; display: inline-block;"> <span style="border-right: 1px solid black; padding: 0 5px;">+</span> </div>	\$320.00
<a href="#">Remove</a>			
<a href="#">Clear Cart</a>			

### Order Summary

<b>SUBTOTAL</b> 1114 ITEMS	<b>\$16,440.00</b>
Shipping	\$0.00
Tax	\$0.00
<b>ESTIMATED TOTAL</b>	<b>\$16,440.00</b>

PROCEED TO CHECKOUT

## SHOPPING CART (40 PRODUCTS, 272 ITEMS)



Cambium ePMP 3000 Sector Antenna  
([http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-sector-antenna\\_2.html](http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-sector-antenna_2.html))

\$399.00

([http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-sector-antenna\\_2.html](http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-sector-antenna_2.html))

SKU: #00509100301A

Quantity:

Amount: \$3,192.00

REMOVE



Ubiquiti UFiber GPON OLT SFP, C+ Module- US  
(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-ufiber-gpon-olt-sfp-c-module.html>)

\$77.11 ~~\$86.00~~

(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-ufiber-gpon-olt-sfp-c-module.html>)

SKU: #00509100301B

Quantity:

Amount: \$616.88

REMOVE



Ubiquiti 11 GHz airFiber Dish, 35 dBi  
(<http://www.doublerradius.com/Manufacturers/airFiber-X-Antenna/ubiquiti-11-ghz-airfiber-dish-35-dbi-af-11g35.html>)

\$463.00

(<http://www.doublerradius.com/Manufacturers/airFiber-X-Antenna/ubiquiti-11-ghz-airfiber-dish-35-dbi-af-11g35.html>)

SKU: #AF-11G35(US)

Quantity:

Amount: \$926.00

REMOVE







Ubiquiti airFiber 11FX  
(<http://www.doublerradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx.html>)

\$600.00

(<http://www.doublerradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx.html>)

Quantity:

Amount: \$1,200.00

REMOVE



Ubiquiti U Fiber, 8-port GPON OLT  
(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-u-fiber-8-port-gpon-olt.html>)

\$1,454.42 ~~\$1,499.00~~

(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-u-fiber-8-port-gpon-olt.html>)

Quantity:

Amount: \$1,454.42

REMOVE



Ubiquiti U Fiber, Single-Mode Module, 10G, 20-Pack  
(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-20-pack.html>)

\$750.00

(<http://www.doublerradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-20-pack.html>)

Quantity:

Amount: \$3,750.00

Please Call 866-891-3602 for Availability

REMOVE



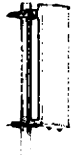
Shireen Outdoor Dry Gel Tape CAT5e UTP Cable (DC-1030)  
(<http://www.doublerradius.com/Manufacturers/Shireen/Shireen-Outdoor-Dry-Gel-Tape-CAT5e-UTP-Cable-DC-1030.html>)

\$152.67 ~~\$235.95~~

(<http://www.doublerradius.com/Manufacturers/Shireen/Shireen-Outdoor-Dry-Gel-Tape-CAT5e-UTP-Cable-DC-1030.html>)

Quantity:

REMOVE



Cambium 900 MHz 60 degree Sector Antenna (Dual Slant)  
(http://www.doublerradius.com/Manufacturers/Antennas\_18/Cambium-900-MHz-60-degree-Sector-Antenna-Dual-Slant.html)

\$316.00 ~~\$395.00~~

(http://www.doublerradius.com/Manufacturers/Antennas\_18/Cambium-900-MHz-60-degree-Sector-Antenna-Dual-Slant.html)

Quantity:

4

Amount: \$1,264.00

REMOVE



Cambium 900 MHz PMP 450i Connectorized Access Point  
(http://www.doublerradius.com/Manufacturers/PMP-450i/Cambium-900-MHz-PMP-450i-Connectorized-Access-Point.html)

\$2,316.00 ~~\$2,895.00~~

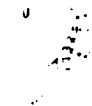
(http://www.doublerradius.com/Manufacturers/PMP-450i/Cambium-900-MHz-PMP-450i-Connectorized-Access-Point.html)

Quantity:

4

Amount: \$9,264.00

REMOVE



Ubiquiti airFiber, 2Gbps+ Backhaul, 24GHz - US Version  
(http://www.doublerradius.com/Manufacturers/airFiber/Ubiquiti-AirFiber-24-GHz-2Gbps-Backhaul-AF24HD-US-VERSION.html)

\$3,212.86

(http://www.doublerradius.com/Manufacturers/airFiber/Ubiquiti-AirFiber-24-GHz-2Gbps-Backhaul-AF24HD-US-VERSION.html)

Quantity:

2

Amount: \$6,425.72

REMOVE



Ubiquiti airFiber 11FX Low Band Duplexer Accessory  
(<http://www.doubleradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx-low-band-duplexer-accessory.html>)

\$183.17 ~~\$199.00~~

SKU: #AF-11FX-DUP-L

(<http://www.doubleradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx-low-band-duplexer-accessory.html>)

Quantity:

Amount: \$549.51

REMOVE



Ubiquiti airFiber 11FX High Band Duplexer Accessory  
(<http://www.doubleradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx-high-band-duplexer-accessory.html>)

\$183.17 ~~\$199.00~~

SKU: #AF-11FX-DUP-H

(<http://www.doubleradius.com/Manufacturers/airFiber/ubiquiti-airfiber-11fx-high-band-duplexer-accessory.html>)

Quantity:

Amount: \$549.51

REMOVE



RF Elements TwistPort Adaptor for ePMP 2000  
(<http://www.doubleradius.com/Manufacturers/TwistPort-Adaptors/rf-elements-twistport-adaptor-for-epmp-2000.html>)

\$44.90

SKU: #TP-ADAP-E2K

(<http://www.doubleradius.com/Manufacturers/TwistPort-Adaptors/rf-elements-twistport-adaptor-for-epmp-2000.html>)

Quantity:

Amount: \$359.20

REMOVE



RF Elements Symmetrical Horn Antenna HG3-TP-S30  
(<http://www.doubleradius.com/Manufacturers/Horn-Antennas/rf-elements-symmetrical-horn-antenna-hg3-tp-s30.html>)

\$130.00

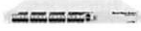
SKU: #HG3-TP-S30

(<http://www.doubleradius.com/Manufacturers/Horn-Antennas/rf-elements-symmetrical-horn-antenna-hg3-tp-s30.html>)

Quantity:

Amount: \$1,040.00

REMOVE



MikroTik Cloud Router Switch 16xSFP+  
(<http://www.doubleradius.com/Manufacturers/MikroTik-Cloud-Router-Switch-16xSFP.html>)

\$387.50

(<http://www.doubleradius.com/Manufacturers/MikroTik-Cloud-Router-Switch-16xSFP.html>)  
SKU: #CRS317-16-16SFP

Quantity:

Amount: \$1,162.50

REMOVE



Ubiquiti EdgePower, 54v, 150W  
(<http://www.doubleradius.com/Manufacturers/ubiquiti-edgepower/ubiquiti-edgepower-54v-150w.html>)

\$183.63 ~~\$195.00~~

(<http://www.doubleradius.com/Manufacturers/ubiquiti-edgepower/ubiquiti-edgepower-54v-150w.html>)  
SKU: #EP-54V-150W

Quantity:

Amount: \$3,856.23

Please Call 866-891-3602 for Availability

REMOVE



Ubiquiti FiberPOE, G2  
(<http://www.doubleradius.com/Manufacturers/PoE/ubiquiti-fiberpoe-g2.html>)

\$28.53 ~~\$29.00~~

SKU: #F-POE-G2

(<http://www.doubleradius.com/Manufacturers/PoE/ubiquiti-fiberpoe-g2.html>)

Quantity:

Amount: \$599.13

Please Call 866-891-3602 for Availability

REMOVE





MikroTik Cloud Core Router CCR1072-1G-8S+  
(<http://www.doublerradius.com/Manufacturers/Ethernet-Routers/Mikrotik-Cloud-Core-Router-CCR1072-1G-8S.html>)

\$2,965.28

(<http://www.doublerradius.com/Manufacturers/Ethernet-Routers/Mikrotik-Cloud-Core-Router-CCR1072-1G-8S.html>)

Quantity:

Amount: \$8,895.84

REMOVE



Ubiquiti EdgePoint WISP switch, 16-port  
(<http://www.doublerradius.com/Manufacturers/EdgePoint/Ubiquiti-EdgePoint-16-Port-Switch.html>)

\$513.55 ~~\$529.00~~

(<http://www.doublerradius.com/Manufacturers/EdgePoint/Ubiquiti-EdgePoint-16-Port-Switch.html>)

Quantity:

Amount: \$2,054.20

Please Call 866-891-3602 for Availability

REMOVE



Cambium PMP 450m Access Point  
(<http://www.doublerradius.com/Manufacturers/PMP-450m/Cambium-PMP-450m-Access-Point.html>)

\$5,596.00 ~~\$6,995.00~~

(<http://www.doublerradius.com/Manufacturers/PMP-450m/Cambium-PMP-450m-Access-Point.html>)

Quantity:

Amount: \$33,576.00

REMOVE



Baicells Nova-436 Outdoor TDD Base Station  
(<http://www.doublerradius.com/Manufacturers/nova/baicells-nova-436-outdoor-tdd-base-station.html>)

\$5,499.00

(<http://www.doublerradius.com/Manufacturers/nova/baicells-nova-436-outdoor-tdd-base-station.html>)

Quantity:

Amount: \$32,994.00

REMOVE



KP Performance Two 3 GHz 65, ±45 Degree Slant 18dBi, 90 Sector Antennas  
(<http://www.doubleradius.com/Manufacturers/kp-performance-1/kp-performance-two-3-ghz-65-45-degree-slant-18dbi-90-sector-antennas.html>)

\$534.99

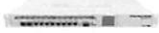
(<http://www.doubleradius.com/Manufacturers/kp-performance-1/kp-performance-two-3-ghz-65-45-degree-slant-18dbi-90-sector-antennas.html>)

SKU: #KP-3535-65SA

Quantity:

Amount: \$3,209.94

REMOVE



MikroTik CCR1009-7G-1C-1S+ Cloud Core Router  
(<http://www.doubleradius.com/Manufacturers/Ethernet-Routers/mikrotik-cloud-core-router-ccr1009-7g-1c-1s.html>)

\$479.16

(<http://www.doubleradius.com/Manufacturers/Ethernet-Routers/mikrotik-cloud-core-router-ccr1009-7g-1c-1s.html>)

SKU: #CCR1009-7G-1C-1S+

Quantity:

Amount: \$479.16

REMOVE



Cambium CMM5 to uGPS Shielded Cable, 20 meter  
([http://www.doubleradius.com/Manufacturers/Accessories\\_34/cambium-cmm5-to-ugps-shielded-cable-20-meter.html](http://www.doubleradius.com/Manufacturers/Accessories_34/cambium-cmm5-to-ugps-shielded-cable-20-meter.html))

\$169.00

([http://www.doubleradius.com/Manufacturers/Accessories\\_34/cambium-cmm5-to-ugps-shielded-cable-20-meter.html](http://www.doubleradius.com/Manufacturers/Accessories_34/cambium-cmm5-to-ugps-shielded-cable-20-meter.html))

SKU: #N000000L105A

Quantity:

Amount: \$169.00

REMOVE



Ubiquiti U Fiber, Single-Mode Module, 10G, 2-Pack  
(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-2-pack.html>)

\$85.00

(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-2-pack.html>)

SKU: #UF-SM-10G

Quantity:

Amount: \$1,700.00

Please Call 866-891-3602 for Availability

REMOVE



MikroTik Encloser SFP+ 3m Direct Attach Cable  
(<http://www.doubleradius.com/Manufacturers/Interfaces/Mikrotik-SFP-direct-attach-cable-3m-SDA0003.html>)

\$41.66

(<http://www.doubleradius.com/Manufacturers/Interfaces/Mikrotik-SFP-direct-attach-cable-3m-SDA0003.html>)

SKU: #S-DA0003

Quantity:

Amount: \$833.20

REMOVE



IgniteNet MetroLinq Alignment Scope  
(<http://www.doubleradius.com/Manufacturers/ignitenet-accessories/IgniteNet-MetroLinq-Alignment-Scope.html>)

\$96.34 ~~\$99.00~~

(<http://www.doubleradius.com/Manufacturers/ignitenet-accessories/IgniteNet-MetroLinq-Alignment-Scope.html>)

SKU: #IC-SCOPE-9X50

Quantity:

Amount: \$385.36

REMOVE



Ubiquiti U Fiber, Single-Mode Module, 10G, 20-Pack  
(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-20-pack.html>)

\$750.00

(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/Ubiquiti-u-fiber-single-mode-module-10g-20-pack.html>)

SKU: #UF-SM-10G-20

Quantity:

Amount: \$1,500.00

Please Call 866-891-3602 for Availability

9

REMOVE



MikroTik 48 to 24V Gigabit PoE Converter

(<http://www.doubleradius.com/Manufacturers/Mikrotik-Accessories/Mikrotik-48-to-24V-Gigabit-PoE-Converter-RBGPOE-CON-HP.html>)

\$24.16

(<http://www.doubleradius.com/Manufacturers/Mikrotik-Accessories/Mikrotik-48-to-24V-Gigabit-PoE-Converter-RBGPOE-CON-HP.html>)

Quantity:

Amount: \$483.20

REMOVE



MikroTik Encloser S-31DLC20D

(<http://www.doubleradius.com/Manufacturers/Interfaces/Mikrotik-1-25G-SFP-Transceiver-1310nm-Dual-LC-Connector-S-31DLC20D.html>)

\$24.70

(<http://www.doubleradius.com/Manufacturers/Interfaces/Mikrotik-1-25G-SFP-Transceiver-1310nm-Dual-LC-Connector-S-31DLC20D.html>)

Quantity:

Amount: \$247.00

REMOVE



Ubiquiti U Fiber, Multi-Mode Module, 1G, 2-Pack

(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-u-fiber-multi-mode-module-1g-2-pack.html>)

\$16.95 ~~\$17.00~~

(<http://www.doubleradius.com/Manufacturers/ubiquiti-u-fiber/ubiquiti-u-fiber-multi-mode-module-1g-2-pack.html>)

Quantity:

Amount: \$203.40

Please Call 866-891-3602 for Availability

REMOVE



Cambium Power Supply, Single Output Switching, 30V, 240W, HLG-240H  
([http://www.doubleradius.com/Manufacturers/Accessories\\_34/Cambium-Power-Supply-Single-Output-Switching-30V-240W-HLG-240H.html](http://www.doubleradius.com/Manufacturers/Accessories_34/Cambium-Power-Supply-Single-Output-Switching-30V-240W-HLG-240H.html))

\$160.00 ~~\$200.00~~

([http://www.doubleradius.com/Manufacturers/Accessories\\_34/Cambium-Power-Supply-Single-Output-Switching-30V-240W-HLG-240H.html](http://www.doubleradius.com/Manufacturers/Accessories_34/Cambium-Power-Supply-Single-Output-Switching-30V-240W-HLG-240H.html))  
SKU: #N000000L055A

Quantity:

Amount: \$960.00

REMOVE



Ubiquiti Power Cable  
(<http://www.doubleradius.com/Manufacturers/EdgePoint/ubiquiti-power-cable-12-awg.html>)

\$658.52

(<http://www.doubleradius.com/Manufacturers/EdgePoint/ubiquiti-power-cable-12-awg.html>)  
SKU: #PC12

Quantity:

Amount: \$1,975.56

REMOVE



Cambium CMM5 Power and Sync Injector 56V  
([http://www.doubleradius.com/Manufacturers/Accessories\\_34/cambium-cmm5-power-and-sync-injector-56v.html](http://www.doubleradius.com/Manufacturers/Accessories_34/cambium-cmm5-power-and-sync-injector-56v.html))

\$1,295.00

([http://www.doubleradius.com/Manufacturers/Accessories\\_34/cambium-cmm5-power-and-sync-injector-56v.html](http://www.doubleradius.com/Manufacturers/Accessories_34/cambium-cmm5-power-and-sync-injector-56v.html))  
SKU: #C000000L556A

Quantity:

Amount: \$6,475.00

REMOVE



MikroTik S+RJ10 6-speed RJ-45 Module  
(<http://www.doubleradius.com/Manufacturers/Interfaces/mikrotik-srj10-6-speed-rj-45-module.html>)

\$69.45

(<http://www.doubleradius.com/Manufacturers/Interfaces/mikrotik-srj10-6-speed-rj-45-module.html>)  
SKU: #SRJ10

Quantity:

Amount: \$277.80

REMOVE

11



Ubiquiti EdgePower 54V, 150W AC to DC PSU Module  
(<http://www.doubleradius.com/Manufacturers/ubiquiti-edgepower/ubiquiti-edgepower-54v-150w-ac-to-dc-psu-module.html>)

\$70.64 ~~\$79.00~~

(<http://www.doubleradius.com/Manufacturers/ubiquiti-edgepower/ubiquiti-edgepower-54v-150w-ac-to-dc-psu-module.html>)

SKU: #EP-54V-150W-AC

Quantity:

Amount: \$706.40

REMOVE



Ubiquiti EdgeSwitch, 16-Port, 10G  
(<http://www.doubleradius.com/Manufacturers/EdgeSwitch/ubiquiti-edgeswitch-16-port-10g.html>)

\$625.13 ~~\$669.00~~

(<http://www.doubleradius.com/Manufacturers/EdgeSwitch/ubiquiti-edgeswitch-16-port-10g.html>)

SKU: #ES-16-10G

Quantity:

Amount: \$2,500.52

Please Call 866-891-3602 for Availability

REMOVE



Ubiquiti ToughCable Connectors, 100 pieces - US Version  
(<http://www.doubleradius.com/Manufacturers/TOUGHCable/Ubiquiti-Tough-Cable-Connectors-100pc.html>)

\$48.00 ~~\$49.00~~

(<http://www.doubleradius.com/Manufacturers/TOUGHCable/Ubiquiti-Tough-Cable-Connectors-100pc.html>)

SKU: #TC-Conn

Quantity:

Amount: \$480.00

REMOVE



Shireen Outdoor CAT6 FTP Shielded 1000ft Spool (DC-2021)  
(<http://www.doubleradius.com/Manufacturers/Shireen/Shireen-Outdoor-CAT6-FTP-Shielded-1000ft-Spool-DC-2021.html>)

\$199.74 ~~\$327.47~~

(<http://www.doubleradius.com/Manufacturers/Shireen/Shireen-Outdoor-CAT6-FTP-Shielded-1000ft-Spool-DC-2021.html>)

SKU: #DC-2021 (Shireen CAT6)

Quantity:

FTP-Shielded-1000ft-Spool-DC-2021.html)

2

Amount: \$399.48

REMOVE

Cambium ePMP 3000 5 GHz Access Point Radio  
(http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-5-ghz-access-point-radio.html)

\$799.00

(http://www.doublerradius.com/Manufacturers/ePMP-3000/cambium-epmp-3000-5-ghz-access-point-radio.html)  
SKU: #C058910A102A

Quantity:

8

Amount: \$6,392.00

REMOVE

**ORDER SUMMARY**

**Subtotal (272 items)**

**\$143,411.50**

Ship to: 22485

Shipping

\$2,657.17

Tax

\$0.00

Have a Promo Code?

**Estimated Total**

**\$146,068.67**

PROCEED TO CHECKOUT

CONTINUE SHOPPING ()





# Quote

## DoubleRadius, Inc.

2022 Van Buren Ave  
 Indian Trail NC 28079  
 US  
 704-927-6100

Date	Quote #
5/23/2018	251762

Bill To
Juan Marte KGI Communications, LLC 4485 DANUBE DR #8A KING GEORGE VA 22485 United States

Ship To
Juan Marte KGI Communications, LLC 4485 DANUBE DR #8A KING GEORGE VA 22485 United States

Expires
6/22/2018

Item	Quantity	Description	Item Notes	Unit Price	Extended
AF-11FX(US)	2	Ubiquiti airFiber 11FX		600.00	1,200.00
AF-11FX-DUP-H	4	Ubiquiti airFiber 11FX High Band Duplexer		199.00	796.00
AF-11G35(US)	2	*Freight Item* Ubiquiti 11 GHz airFiber Dish, 35 dBi - 11GHz 35dBi dish antenna for AF-11FX radio. H/V polarity with option to configure to slant 45 degree polarity		337.50	675.00
FCC Part 101 Project Coordination & FCC Filing	1	Includes Frequency Study, Prior Coordination Notice, Application Filing, and FCC Schedule K Completion		525.00	525.00
FCC Pass-Thru Service Fee New Site	2	FCC Pass-Thru Service Fee New Site		687.50	1,375.00
UPS® Ground	1			458.28	458.28

960 240  
 636.8 159.2  
 540 135  
 420 105  
 1100 275  
 366.79 165

				Total	\$5,029.28





# Quote

## DoubleRadius, Inc.

2022 Van Buren Ave  
 Indian Trail NC 28079  
 US  
 704-927-6100

Date	Quote #
9/19/2018	257445

Bill To	Ship To
Juan Marte KGI Communications, LLC 4485 DANUBE DR #8A KING GEORGE VA 22485 United States	Juan Marte KGI Communications, LLC 4485 DANUBE DR #8A KING GEORGE VA 22485 United States

Expires
10/19/2018

Item	Quantity	Description	Item Notes	Unit Price	Extended
C110082B043A	1	Cambium PTP 820C Radio 11WGHz, TR500, Ch1W6, Hi, 11185-11485MHz		5,040.00	5,040.00
C110082B044A	1	Cambium PTP 820C Radio 11WGHz, TR500, Ch1W6, Lo, 10695-10955MHz		5,040.00	5,040.00
C000000L033A	4	Cambium Gigabit Surge Suppressor (56V) (C000000L033A)		40.00	160.00
N000065L001C	2	Cambium PTP 650 AC Power Injector - Replaces N000065L001B		64.00	128.00
N000082L014A	2	Cambium PTP 820 Glands_x5_KIT		23.20	46.40
N000082L016A	1	Cambium PTP 820 CAT5E Outdoor 100m drum		208.80	208.80
N000082L017A	4	Cambium PTP 820 Grounding Kit for CAT5e F/UTP 8mm cable		12.00	48.00
N000082L022A	2	Cambium PTP 820 PoE Injector all outdoor, redundant DC input, +24VDC support		530.40	1,060.80
N000082L073A	2	Cambium PTP 820 GBE_Connector_kit		18.40	36.80
N000082L116A	2	Cambium PTP 820 GROUNd CABLE FOR IDU and ODU		12.00	24.00
N000082L042A	2	Cambium PTP 820 Act.Key - GE port, per additional port		76.00	152.00
N000082L056A	4	Cambium PTP 820 Act.Key - XPIC, per Tx Chan		184.00	736.00
N000082L027A	2	Cambium PTP 820C Act.Key - 2nd Core Activation		1,900.00	3,800.00
N000082L079A	4	Cambium PTP 820C Act.Key - Capacity 650M with ACM Enabled, per Tx Chan		1,200.00	4,800.00
N110082D072A	2	Cambium PTP 820 2' ANT,SP,11GHz.RFU-C TYPE&Std UBR100 - Andrew		440.00	880.00
N110082L082A	2	Cambium PTP 820C OMT KIT 10-11GHz		700.00	1,400.00
N110082L092A	2	Cambium PTP 820 RFU-C 10_11GHz OMT Interface-Andrew		88.80	177.60
UPS® Ground	1			0.00	0.00

				Total	\$23,738.40

December 1, 2018

To Whom It May Concern:

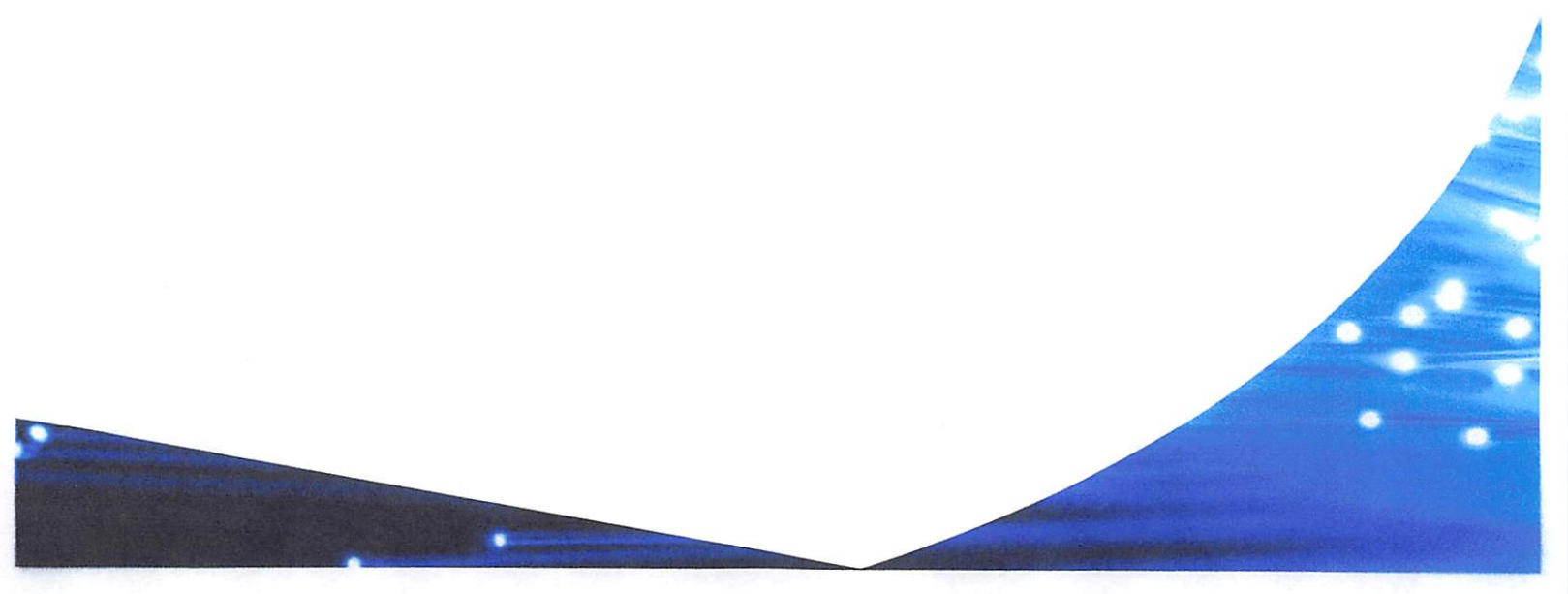
KGI Communications LLC will be responsible for 20% of the \$300,000 for the VATI Grant, which is \$60,000.

Very Respectfully,

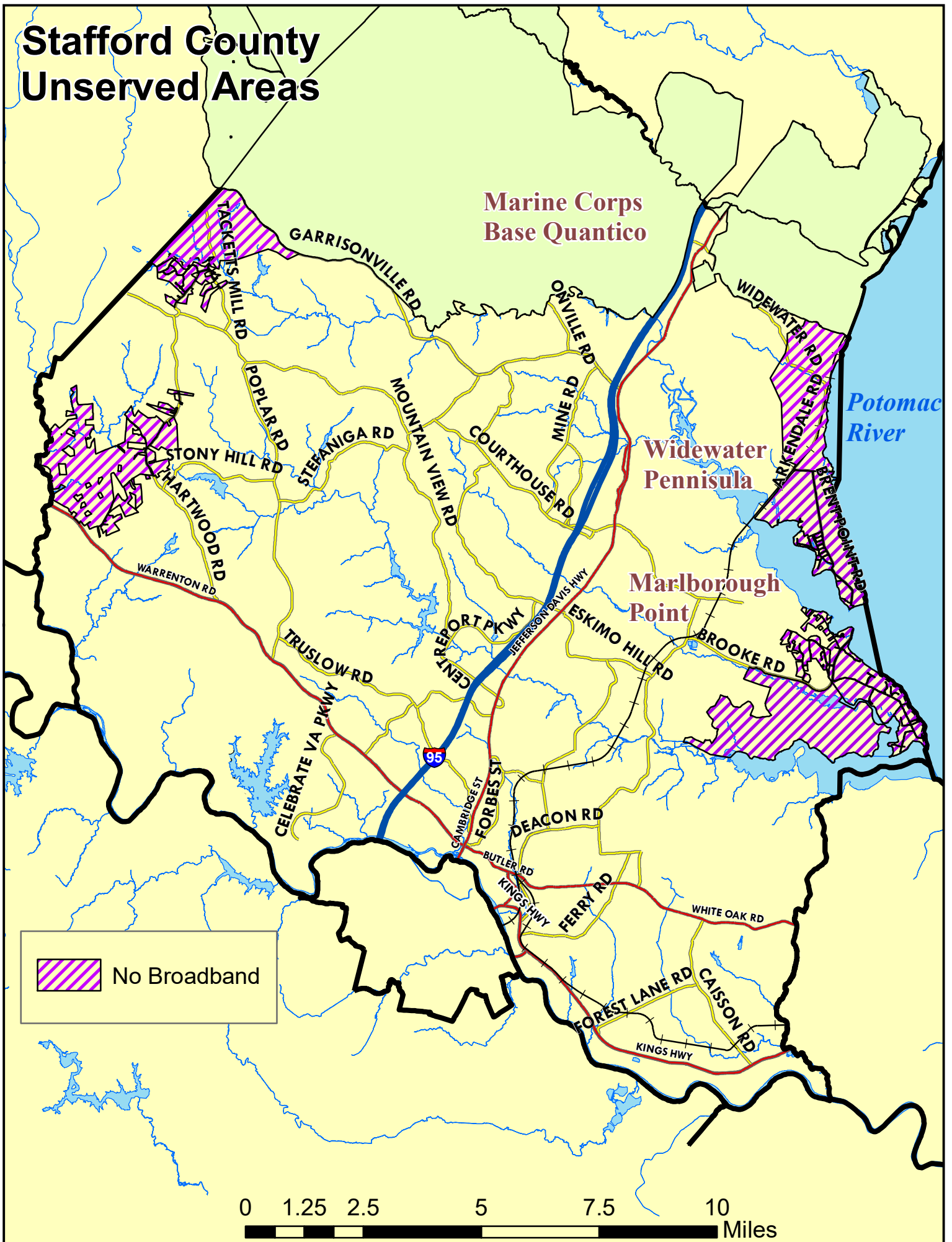
A handwritten signature in blue ink, appearing to read "Juan Marte", with a stylized flourish extending from the end of the signature.

Juan Marte

CEO



# Stafford County Unserved Areas



Marine Corps  
Base Quantico

Widewater  
Peninsula

Marlborough  
Point

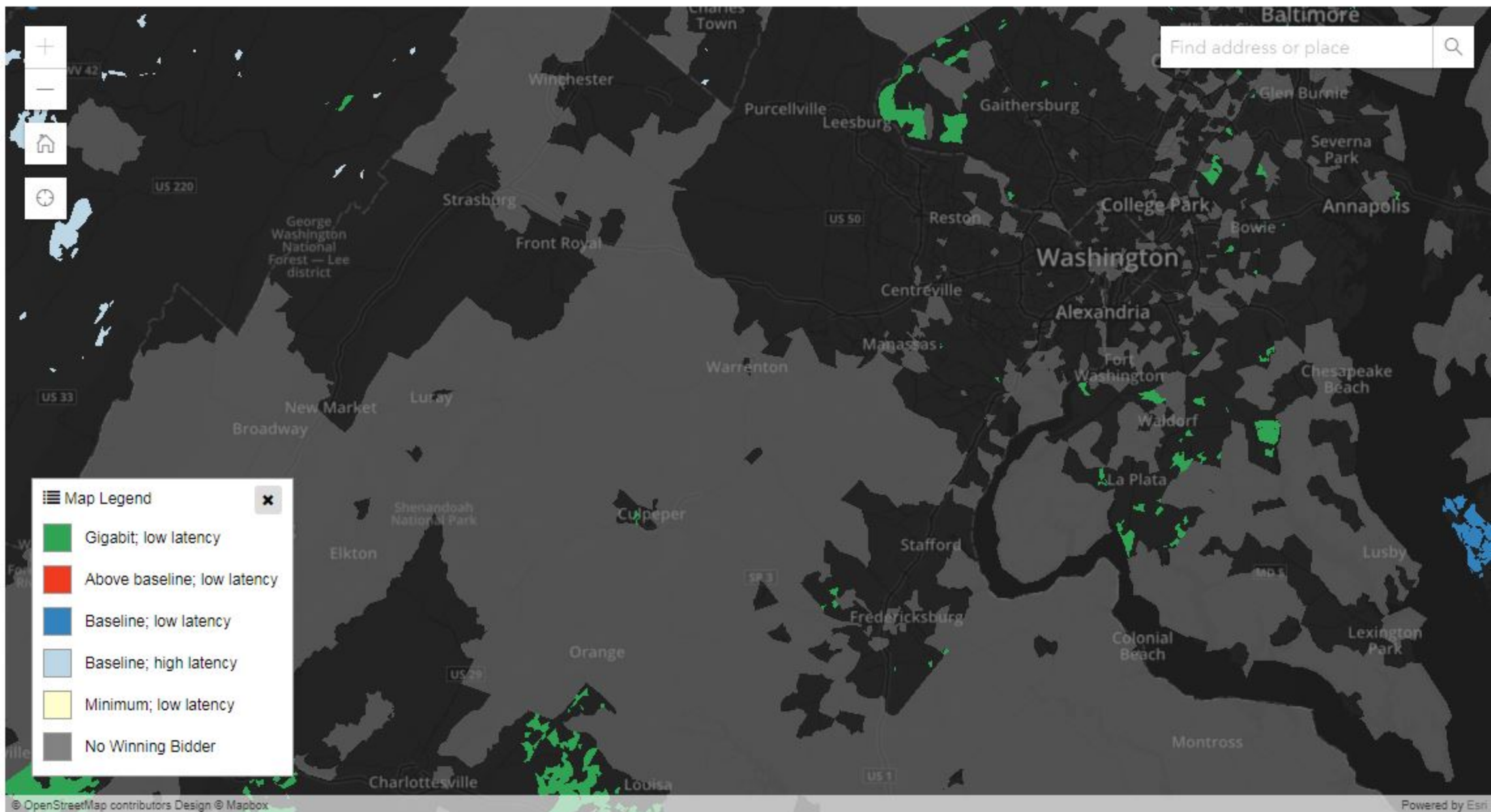
Potomac  
River



No Broadband

0 1.25 2.5 5 7.5 10 Miles

# Connect America Fund Phase II: Auction 903 Results





VATI FUNDING SOURCES TABLE

Please fill in the chart below with a description of the project funding source (local, federal, state, private, other), the amount from that source, the percentage of total project funding that source represents, and a description of the current status of the funds (pending, secured, etc.).

Source	Amount	%	Status
REQUESTED VATI	\$ 240,000	80%	Pending
KGI Communications LLC	\$60,000	20%	Pending Award of VATI Grant
	\$		
	\$		
	\$		
	\$		
	\$		
<b>TOTAL</b>	<b>\$ 300,000</b>	<b>100%</b>	

Scott R. Kizner, Ph.D.  
Superintendent



## STAFFORD COUNTY PUBLIC SCHOOLS

31 Stafford Avenue  
Stafford, Virginia 22554-7246  
Phone: 540-658-6000  
www.staffordschools.net

**SCHOOL BOARD**  
Patricia Healy, Chair  
Dewayne McOsker, Vice-Chair  
Sarah Chase, Ph.D.  
Jamie Decatur  
Irene Egan  
Holly Hazard  
R. Pamela Yeung

### Office of the Superintendent

December 11, 2018

Mr. Tom Foley  
Stafford County Government Center  
Administration Center  
1300 Courthouse Road  
Stafford, Virginia 22554

Dear Mr. Foley:

I am writing this letter in support of a Virginia Telecommunications Initiative grant. This type of grant would support the more than 29,000 students enrolled in Stafford County Public Schools. The grant assists in fixed wireless broadband service to residents of unserved Marlborough Point and Widewater in Stafford County. The grant also proposes to offer free WiFi at Widewater State Park, which is useful for families in the area. It is vital to have broadband access for the student population in those areas. Many of our students use Widewater State Park; therefore, it is important to have WiFi access to this area.

Allowing more educational opportunities is a way for students to become more in tune with what is happening around them. The ability to formalize the way observations are made and record results enable students to broaden the world's discoveries about nature.

The park's diverse habitats, marshes, forests, and waterfront provide great opportunities for education and interactive study. We are open to the idea of making available the 1,100 acres of Widewater State Park to Stafford County Public School students as an outdoor hands-on, living science classroom separate from the confines of the typical classroom. Several of our teachers are working to expand the science curriculum to outdoor hands-on learning. SCPS understands that broadband high-speed internet service throughout the Park is important to student success in learning. Therefore, SCPS supports the grant application to further education all students within the division.

Respectfully,

A handwritten signature in black ink, appearing to read "Scott Kizner", written over the word "Respectfully,".

Scott Kizner, Ph.D.  
Superintendent

**Friends of Widewater State Park, Inc.**

**101 Widewater State Park Road**

**Stafford, VA 22554**

Email: [widewater.friends@gmail.com](mailto:widewater.friends@gmail.com)

December 11, 2018

Mr. Thomas Foley  
County Administrator  
Stafford County Government  
1300 Courthouse Road  
P.O. Box 339  
Stafford, Virginia 22555-0339

Dear Tom:

The Friends of Widewater State Park support Stafford County's Virginia Telecommunications Initiative Grant application with KGI to offer broadband service to Widewater State Park and Widewater Peninsula. Broadband internet service is critical for the future success of the Park and our community.

We are a citizen 501 C 3 corporation formed to support The Virginia Department of Conservation's community recreational and educational opportunities within the 1,100 acres of Widewater State Park.

In 2008, the master plan for Widewater State Park was developed by an advisory committee comprised of Stafford County residents, adjacent landowners, government officials, user groups and local businesses with the guidance of the public.

A major goal of the plan is to provide premiere water and land based educational and outdoor recreational opportunities while protecting and interpreting the unique natural, historical and cultural resources of the Widewater Peninsula. The Park formally opened on November 8 of this year and regrettably is unserved by any broadband provider.

Our Strategic Action Plan's Goals celebrate Widewater's past and its future. "This area is significant because it is where Stafford's recorded history began", according to Kenneth L. Benson, Potomac District Manager, Virginia State Parks. We are cognizant that a place that forgets its history loses its soul and is the force behind our Goals.

GOAL: Widewater's history is almost forgotten. Its history dates back millions of years. The earliest human residents of Widewater were probably the Paleo-Indians about 16,000 years ago. Its first family established the first permanent English settlement in Stafford. Its Potomac waterfront played a significant role in the defense of the South. A number of influential people hailed from Widewater's post-Civil War years. It was noted as a sportsman's paradise and for its huge seine fishery industry. It is the birthplace of aviation. These are but a few of stories yet to told.

GOAL: Work with Stafford County Public Schools to provide a hands-on outdoor science classroom learning opportunity where students can incorporate the appreciation and understanding of our world's ecosystems as well as how each student can be an active part of its conservation. The Stafford School student enrollment is approximately 29,000. Broadband internet service is critical for the future success of this program.

GOAL: Support a planned climate research, analysis, living laboratory and education hub within the park.

GOAL: Support the park becoming a flagship park for the Virginia Association for Parks and Marstel Day Smart Parks Initiative.

GOAL: Partner with Stafford County, U.S. Department of Veterans Affairs, other veteran volunteer organizations and private and public service providers to create an ideal environment for all veterans and their families to relax, rehabilitate reintegrate and reconnect within the park. It is estimated that there are more than 32,000 veterans living in Stafford County.

GOAL: Promote Park RX America throughout our community. During the park's grand opening, Governor Ralph Northam joined with Dr. Robert Zarr, M.D. and Founder and medical Director of Park Rx America in announcing that the Virginia state park system has become one of the first in the country to partner in an effort to get physicians and other health care providers to prescribe outdoor activities for patients in their parks.

KGI's air fiber broadband internet service is crucial to the future success of the Park and our community and we fully support the County's VATI grant application with KGI to offer this service.

Respectfully,



Philip Hornung, Vice President

Friends of Widewater State Park, Inc.



KGI & Stafford Co. Grant - Message (HTML)

File Message Adobe PDF

Ignore X Delete Reply Reply All Forward Meeting IM More Quick Steps Move Actions Follow Up Tags Editing Zoom Phish Alert

You replied to this message on 12/7/2018 3:01 PM. Sent: Fri 12/7/2018 3:00 PM

From:  Skip Causey <SCausey@DREESHOMES.COM>  
To:  Michael Q. Cannon  
Cc:  Cindi Causey  
Subject: KGI & Stafford Co. Grant


Michael,

I understand that Stafford County and KGI are working together on a grant to bring Broadband internet to the Marlborough Point and Widewater peninsulas. I have lived in Widewater for over 17 years and now I am surrounded by the new Widewater State Park. Since moving in we have tried Dial up, satellite, and most recently a 4G hotspot. While the technology has gotten better and we can now slightly get internet outside of our phones it is limited and slow. I run a business and regularly have our Grandsons with us. Having internet would greatly help with the business and helping the grandsons with their homework and connections.

I am writing this to fully support this process and hopefully this Grant. We will be one of the first in line to sign up this service, pay my upfront fee, and gladly pay my monthly fee for highspeed Broadband internet service in Widewater Peninsula.


Skip

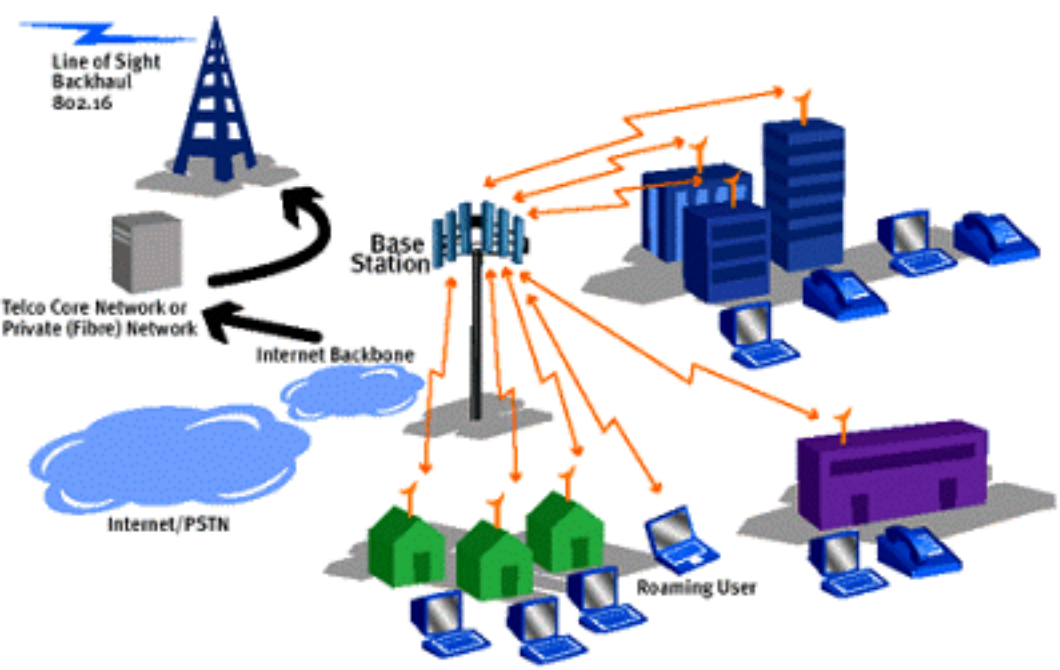
**Skip Causey | Washington DC Division President**  
8551 Rixlew Lane, Suite 230 | Manassas, VA 20109  
P: 703.366.1521 | [scausey@dreeshomes.com](mailto:scausey@dreeshomes.com)

  
*Drees is Growing, Learn More by Clicking Below!*  
<http://www.dreeshomes.com/2018-drees-at-a-glance/>

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# Company History and Expertise

## *About KGI Communications LLC*

As background, KGI Communications LLC (KGI) is a fixed wireless broadband service provider established in 2017 with operations in King George County, Virginia. KGI is a wholly owned subsidiary of CRC Contracting Inc. (CRC), a local King George County company established in 2002 that works at a national level. KGI was born from the deepest desperation and frustration of CRC's CEO. Because internet access necessary for the growth of any company like CRC was lacking, it was very difficult for CRC to communicate with clients and suppliers. The idea of moving the company out of King George County arose; however, CRC imagined that there were many people and companies that were in the same predicament. As a result, CRC decided to not relocate CRC's operations, but instead bring internet to the rural areas of the county. Thus, the idea of KGI was conceived. KGI's website is [kgicomm.com](http://kgicomm.com).

Juan Marte is the CEO of both CRC and KGI. An electronics and communications engineer, Mr. Marte also owns other companies in his native Dominican Republic. One company, White Telecom, was started in 2007 as Humanos Wireless, due to lack of internet in the city and rural community. Humanos Wireless built towers in the mountains and in the center of the city to make a ring around the city in order to cover the town with internet. His company was the first to provide wireless internet and fiber there. In 2017, the name was changed to White Telecom and added fiber to the home (FTTH). Now the choice of fiber and wireless internet is available.

In 2017, White Telecom (the new name) serviced more internet options to homes, businesses, and government facilities in the Dominican Republic. In 2018, White Telecom, owned by Juan Marte Giraldo, received a high award from the President of the Dominican Republic. White Telecom received a twenty year special license to service the large city of Bonao with fiber. White Telecom has earned the respect of municipalities and businesses for its professional and quality internet service.

As a result, his Dominican company began to expand fiber in other parts of the country. Juan used his experience from the university and his company to bring high speed internet to the rural areas. His experience is well known throughout those parts. He was the first to bring fiber. Juan has been using his experience to do the same in rural Virginia.

KGI's vision is to be a broadband service provider that reaches every home in King George County and nearby communities with a quality service that is accessible to all.

Consistent with the community broadband needs identified in the RFP, KGI's mission is six-fold:

- 1 To give the young people and residents the comfort of technology in their homes;
- 2 To provide a good service for the residents who work from home;
- 3 To help prepare young people interested in technology to develop their potential;
- 4 To offer high quality internet service;
- 5 To strengthen local commerce; and
- 6 To provide a source of employment for all the community, involving young people in

the area of technology and marketing.

KGI's current operations in King George County use fixed wireless technology to connect to homes and businesses. For residences, KGI offers download speeds ranging from 10 to 200 Mbps with unlimited usage and no throttling. For businesses, KGI offers higher speeds and will customize speeds according to business' needs. KGI currently offers service from two towers: Shiloh district of King George County, Caroline County, and Westmoreland County. Our goal is to continue expanding into nearby unserved and underserved communities and counties to leverage our existing assets and experience to bring broadband service to rural Virginians.

KGI Communications LLC is a member of the Wireless Internet Service Providers Association (WISPA), Maryland Broadband Cooperative, Fiber Broadband Association, Avetta, and is a partner with Verizon.

## New King George company looks to bring high-speed internet to rural county

BY CATHY DYSON THE FREE LANCE-STAR Nov 24, 2017



Juan Marte, CEO, and Michele Wido, President, are interviewed at KGI Communications in Dahlgren, Va. on Nov. 21, 2017. The two started KGI to offer broadband internet access to customers in King George County.

[Buy Now](#)

Mike Morones / The Free Lance-Star

### BROADBAND STUDIES ABOUND

King George County is part of three different groups studying ways to provide internet service in rural areas.

Ryan Gandy, the county's director of economic development, reported Nov. 14 on a recent Rural Broadband Task Force meeting in Warsaw. He said the one thing that's clear to group members is that internet connectivity is no longer a luxury. It's a need as basic as electricity.

The same night, county officials heard another report about their partnership with the Center for Innovative Technology in Herndon. King George is part of a pilot project in which the center surveys the needs and offers solutions—and in the process provides "\$50,000 worth of consulting work for nothing," Chuck Kirby, director of broadband programs, told the board.

Juan Marte helped bring internet service to a developing nation a decade ago, then came to King George County—and discovered the situation was worse than in his homeland.

He was working this summer with Steve and Michele Wido, missionaries he met years ago when they visited his native Dominican Republic. He was shocked by their lack of access to high-speed internet service and the fiber-optic cables that supply it.

"This is crazy. How can you live?" Marte told Michele Wido. "We have to have fiber here; the future is fiber."

The 33-year-old Dominican decided to bring it to the rural county, where he's invested in the couple's business, CRC Contracting Inc. He's also spent more than \$200,000 on equipment, licenses and hiring employees for the new company, KGI Communications Inc.

Marte and his wife live in Spotsylvania County so their three children can learn English in a private school. After that, the family plans to move to King George, where he's chief executive officer of the new company, as well as its primary investor. Michele Wido is the president.

Steve Wido, who ran unsuccessfully for a seat on the King George Board of Supervisors earlier this month, told the supervisors Nov. 14 that the new business is poised to provide much-needed service in the most rural areas of the county.



businesses are encouraged to fill out a survey about internet issues by the end of the year. A link is available on the county's website, king-george.va.us, and the survey is open through December.

In addition, the county was asked if it wanted to be part of a regional study that examines how the Pamunkey Indian tribe in King William County might set up a business model to provide internet service in some of Virginia's most rural areas.

The Pamunkeys are the only federally recognized Indian tribe in Virginia and have access to federal grants that other groups don't, said Curry Roberts, president of the Fredericksburg Regional Alliance. It's working on the GO Virginia initiative, to bring growth and opportunities to the state.

Roberts asked King George to contribute \$5,000 as part of a two-year study that would look at how the Indian tribe might develop a business model to provide internet from Fredericksburg into the Northern Neck and the Middle Peninsula.

Chairwoman Ruby Brabo said she thought another study was a waste of time. Virginia Tech did a statewide survey last year, the Northern Neck Electric Cooperative is in the midst of one, and the CIT is doing the legwork in King George.

"It reaches a point that when will we just provide the service?" she asked.

Fellow Supervisor Richard Granger disagreed, saying the cost was affordable and the county needed to explore as many options as possible.

"A lot of people are really banging the drum for this, and I think we should do every effort we can," he said.

Fellow supervisors agreed with Granger and approved spending money on the two-year study to determine how the Pamunkey tribe might create a broadband business.

The company plans to install equipment on water towers in King

George. The cost for each is about \$36,000, Marte said.

The rectangular boxes, which Marte described as stations, will broadcast a signal, via a radio frequency, to homes within a 360-degree radius, Marte said. No line of sight is needed.

This "air fiber" will provide the fastest form of broadband technology, according to the company's website, kgicomm.com.

And the company doesn't want anything from the county except a contract to put equipment on one of its water towers.

"We're not looking for grants or money, nothing from the county," Steve Wido said. "It's our money that we're investing, and we want to make sure it succeeds."

The announcement was one of four presentations the King George board heard on the same night about possible solutions to internet access problems. The lack of reliable, affordable and fast broadband service has been a regular complaint of county residents and a campaign platform for local candidates.

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AD

SKIP AD >

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It's brought up almost as often as criticisms about the quality and cost of county water.

The problem isn't limited to King George, but occurs in any area that doesn't have a dense enough population to make it financially feasible for companies to extend underground fiber optic cables.

Marte said the solution is easier since the government made it possible for small businesses to tap into this radio frequency that provides access to the LTE network. Some of the big technology companies bought licenses just so others wouldn't have access to them, Marte said, but KGI Communications was able to acquire one.

The company already has gotten permission to put its equipment on a private tower at State Route 218 and U.S. 301. The second tower, still under negotiation, is past the CVS Pharmacy on U.S. 301.

After the company finalizes its second lease, it will work with King George about placing equipment on the water tower at Arnold's Corner, at State Route 3 and Dahlgren Road.

anything, in The Meadows and for the Shiloh people," Marte said.

Installation and monthly fees would vary, based on the proximity to the towers and the desired speed. Those who want to check their email occasionally might want slower speeds, at a monthly cost of about \$49, Marte said, while those requiring faster speeds might pay up to \$200 a month.

Steve Wido told the supervisors that after negotiations are completed, the company could be up and running within two weeks.

"We're excited about it, we can't wait," he said.

Marte seems calm about the money he's already spent, saying he'll need about 1,000 customers to get a return on his investment.

"He's a risk-taker," Michele Wido said about Marte, a former race car driver.

"In business," Marte added, "if you don't assume risk, you're never gonna make money."

Cathy Dyson: 540/374-5425

[cdyson@freelancestar.com](mailto:cdyson@freelancestar.com)

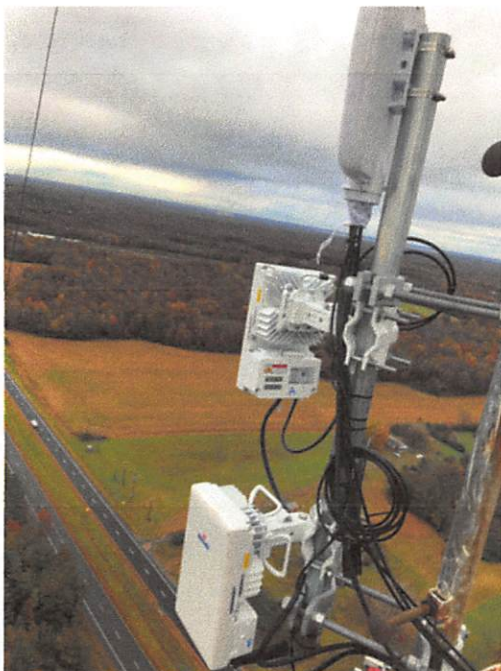
**Cathy Dyson**



[https://www.fredericksburg.com/news/local/king\\_george/king-george-company-tries-another-solution-for-internet-problems/article\\_a6062b38-34b1-5c0f-82f2-5af30c8df8e1.html](https://www.fredericksburg.com/news/local/king_george/king-george-company-tries-another-solution-for-internet-problems/article_a6062b38-34b1-5c0f-82f2-5af30c8df8e1.html)

## King George company tries another solution for internet problems

By CATHY DYSON THE FREE LANCE-STAR Nov 13, 2018



The Baicells boxes will allow KGI Communications to access unlicensed radio frequency spectrum.  
PROVIDED PHOTO

KGI Communications has been waiting for months for a federal license to access a frequency within the radio spectrum that would help bring high-speed internet service to rural King George County.

When the license from the Federal Communications Commission wasn't forthcoming, KGI decided to go another route. Last week, it deployed an unlicensed LTE product, called Spectra, that "will provide the stability and bandwidth of LTE service while avoiding the restrictions of licensed spectrum," according to a press release from KGI.

Going unlicensed sounds like something most reputable businesses would avoid, but the term is "not as sinister as it sounds," according to One Ring Networks website. "Instead, it simply means that the spectrum is free to obtain."

KGI used a product from Baicells, a private, high-tech company with North American offices in Texas and Toronto. The usage marks the first time the Baicells equipment has been deployed in the United States, according to Baicells.

Photos of the event show officials from both companies, along with U.S. Rep. Rob Wittman, R-1st District, and King George Board of Supervisors member Ruby Brabo, around a conference table. Later that day, Brabo sent out an email calling it a "history-making event."

She said that KGI's tenacity in solving the county's internet issue is paying off. "This is truly a game

AD

SKIP AD >

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KGI was founded in 2017 by Juan Marte, a native of the Dominican Republic. He is the CEO and Michele Wido is the president. KGI is a subsidiary of CRC, established in 2002 by Steve and Michele Wido of King George.

King George County has worked with KGI to bring more reliable service to the rural area. In May, officials agreed to waive fees for KGI to install its equipment on county-owned towers. Last week, KGI workers added the Baicells box, or base station, to its equipment on a tower in the Shiloh District. It's purchased six base stations to test, Michele Wido said. Online, the base stations sell for about \$3,699 each.

For those who understand the radio frequency bands within the radio spectrum, the new, unlicensed product is a 2x320mW eNodeB that enables smart LTE device users to be served by a 5.8 gigahertz spectrum. It uses frequency division duplexing technology and basically avoids the restrictions of licensed spectrum.

It will allow the company to provide residents with internet service until it gets its FCC license, Marte said.

"We've seen the lack of internet service quickly become one of the largest problems within our community," Michele Wido said, "and we're committed to working with our local representatives to ensure that we fix this problem."

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**Cathy Dyson: 540/374-5425**

**[cdyson@freelancestar.com](mailto:cdyson@freelancestar.com)**

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**Cathy Dyson**



## King George County

**For Immediate Release**

**Contact:**

Neiman C. Young, Ph. D.

County Administrator

Tel.: 540-775-9181

E-mail: [nyoung@co.kinggeorge.state.va.us](mailto:nyoung@co.kinggeorge.state.va.us)

### **KGI Communications Launches Unlicensed LTE Technology**

**KING GEORGE, VA. (November 9, 2018)** Baicells Technologies, Co., Ltd., announced earlier this week the first U.S. deployment of its unlicensed LTE product at KGI Communications in King George County. According to a press release, “The unlicensed LTE product, dubbed Spectra, is a 2X320mW eNodeB that enables smart LTE device users to be served by 5.8 GHz spectrum using Frequency Division Duplexing technology. This allows KGI Communications to provide the stability and bandwidth of LTE service while avoiding the restrictions of licensed spectrum.”

Boun Senekham, VP of Channel Sales for Baicells Technologies said, “Baicells is excited to begin the first unlicensed LTE deployment in North America and continue expanding the Baicells footprint... we’re incredibly pleased to be able to help provide the residents of King George with an alternative internet solution.”

Juan Marte, CEO of KGI Communications added: “LTE in the 5.8 GHz spectrum will allow us to provide residents with internet service as we wait for our 3.65 GHz license to be approved by the FCC. It will allow us to provide reliable service and begin expanding our network to meet those who are desperate for an internet connection.” KGI Communications (<https://kgicomm.com/>) is a Wireless Internet Service Provider company established in King George County, Virginia in 2017.

“Baicells is a privately-held, high tech company providing disruptively-priced and technically innovative LTE wireless broadband access solutions, supporting fixed wireless, and mobile small cells,” according to their website. Baicells Technologies Co., Ltd. of Beijing, China, registered with the Federal Communications Commission in

December, 2015. In May 2018, Baicells announced the move of its corporate headquarters to Plano, Texas. For more information regarding Baicells and its Spectra product, please visit <https://na.baicells.com/lte-u/>.





# KGI COMMUNICATIONS DEPLOYS THE FIRST BAICELLS UNLICENSED LTE PRODUCT IN THE UNITED STATES

*By Max Hahn Posted November 7, 2018 In News*

*King George, November 7, 2018* – KGI Communications has become the first Internet provider in the United States to deploy Baicells unlicensed LTE to provide internet to the underserved county of King George, Virginia. Located deep within a federal zone, KGI has had difficulty getting approval to use licensed 3.65 GHz spectrum to serve King George; as a result they've turned to unlicensed 5 GHz spectrum to provide high-speed internet to residents.

The unlicensed LTE product, dubbed **Spectra**, is a 2x320mW eNodeB that enables smart LTE device users to be served by 5.8 GHz spectrum using Frequency Division Duplexing technology. This allows KGI Communications to provide the stability and bandwidth of LTE service while avoiding the restrictions of licensed spectrum.

Located near several ground stations and a navy base, King George has suffered from a lack of spectrum availability, making it extremely difficult to provide residents of the community with wireless internet service. The only alternative is cable, which is unable to keep up with the current internet demands. King George is now concerned with depopulation as residents threaten to leave for more internet friendly pastures. Determined to combat the problem, KGI Communications launched in 2017 and has been going through the painstaking process of working with the federal government to get proper 3.65 GHz licensing. When KGI learned of Baicells unlicensed LTE product, it was an immediate sell.



This is the first opportunity we have to provide the residents of this county with a solid, reliable alternative to the cable company that has taken a monopoly on the internet services in King George county," said Michele Wido, President of KGI



Communications. "We've seen the lack of internet service quickly become one the largest problems within our community and we're committed to working with our local representatives to ensure that we fix this problem."

"The tenacity and persistence of KGI Communications to solve our internet issue is paying off in a big way for our residents," said Ruby Brabo, At-Large King George City Supervisor. "This is truly a game changer. The Supervisors look forward to continuing to work with them to accomplish the deployment process as quickly as possible."

"LTE in the 5.8 GHz spectrum will allow us to provide residents with internet service as we wait for our 3.65 GHz license to be approved by the FCC," said Juan Marte, CEO of KGI Communications. "It will allow us to provide reliable service and begin expanding our network to meet those who are desperate for an internet connection. My experience running an ISP in the Dominican Republic has shown me that being able to provide residents with any reliable internet service will put us far ahead of the cable company and allow us to begin building our relationship within the community."



# JUAN A. MARTE GIRALDO, CEO

4485 Danube Dr, Ste 8A, King George, VA 22485 · 301-323-5157

[juanm@kgicomm.com](mailto:juanm@kgicomm.com) · <https://www.linkedin.com/in/juan-marte-206022134/>

## EXPERIENCE

### 2017 – PRESENT

#### **CEO**, KGI COMMUNICATIONS LLC

**INTERNET SERVICE PROVIDER** - Started KGI in October 2017 due to a lack of high speed internet in King George County, where CRC is located. Responsibilities include: looking for vertical assets and areas where a ring of coverage can be achieved. Finding multiple frequencies, licensed and unlicensed; testing frequencies; managing installed equipment on towers; updating equipment; maintaining internet network; ensuring all systems remain secure and updated; training tech installers; managing network; investigating ways to get internet to underserved and unserved communities; Maintain 24/7 customer support. Ensure power back up and fiber back up. Educated customers on how to achieve best speed and offer packages that fit a variety of needs. Work with county and surrounding regions on ways to expand broadband to ensure all have high speed. Design networks and plans. Investigate fiber options and tower options.

### 2002 – PRESENT

#### **CEO**, COMPLETE RESIDENTIAL AND COMMERCIAL CONTRACTING, INC. (CRC CONTRACTING)

**CONTRACTOR** - Specializing in high security certified installation of doors and hardware. CEO of CRC Contracting since January 2017. Follow all Safety Policies and Procedures, as well as the safety requirements of our customers where applicable. Responsible for providing strategic leadership for the organization by working with the Board and other management. Establish long-range goals, strategies, plans and policies. Model and set the company's culture, values, and behaviors. Build and lead the senior executive team. Allocate capital to the organization's priorities.

### 2007 – PRESENT

#### **PRESIDENT**, WHITE TELECOM (PREVIOUS NAME: HERMANOS WIRELESS)

**INTERNET SERVICE PROVIDER** - Humanos Wireless was started in 2007 due to lack of internet in the city and rural community. Built towers in the mountains and in the center of the city to make a ring around the city in order to cover the town with internet. Was first to provide wireless internet and fiber there. In 2017, the name was changed to White Telecom and added fiber to the home (FTTH). Now the choice of fiber and wireless internet is available. Recently received government contract to expand internet into other regions.

In 2017, White Telecom (the new name) serviced more internet options to homes, businesses, and government facilities in the Dominican Republic. In 2018, White Telecom, owned by Juan Marte Giraldo, received a high award from the President of the Dominican Republic. White Telecom received a twenty year special license to service the large city of Bonao with fiber. White Telecom has earned the respect of municipalities and businesses for its professional and quality internet service.



**2013 – PRESENT**

**PRESIDENT, HORMIGONES JM SRL**

In charge of all of the operation of the business, asphalt production, construction of civil works, road and building construction. Maintenance of building. Hormigones JM Srl specializes in concrete construction.

**2013 – PRESENT**

**GENERAL MANAGER, CONSTRUCTORA BURKINA SRL**

Oversees major products of the installation of asphalt, bridges, and major construction of buildings. Build a Special Needs school for children, taking into account the needs of the children, first and only in the county.

**2010 – 2008**

**OPERATIONS MANAGER, CONSTRUCTORA MOLL S.A**

Responsible for all operations of the company's production of asphalt construction, civil works, construction of roads and buildings.

**2008 – 2006**

**TECHNICAL DEPARTMENT OF ELECTRONICS AND AUTOMATION CONTROL, FALCOMBRIDGE DOMINICANA**

Repair of electronic equipment. Installation of fiber, security cameras, communication from power plant to service room of two miles; repeaters. Built CCTV from Falcombridge to Haina Molle. In charge of the entire communications for entire department.

**2006 – 2004**

**OWNER, ELECTRONICA MARTE**

Repair and Programming of Electronic Equipment; such as, facilities of computer networks, wired and wireless, voice and data parable investors, build and repair facilities of wireless networks. Point by point.

## EDUCATION

**JUNE 2006**

**ELECTRONICS AND COMMUNICATIONS ENGINEER, UCATECI UNIVERSITY**

## EXTRA SCHOOLING

- CISCO CCNA Certified
- MikroTik Router
- COMSEARCH's FCC WISP Microwave Boot Camp
- ENSA Certified MCRDD Authorized Climber with Rescue – Telecom
- Credit Analysis Course
- Microsoft Office, Excel, Word, Access, Outlook, PowerPoint, Publisher
- Shireen, Wire and Fiber
- Azotel Network Monitor and Billing
- Bai-Cells, Ubiquiti Networks, Cambium, RF Elements, IgniteNet, KP Performance Antennas, Ligowave, Mimosa
- HTML Course
- Computer Repair Technician, Assembly and Diagnostics
- Installation of Programs and Cable
- Accountant of Dae-Easy
- Huawei Network OLT, Software Control OLT Manager; Dark Fiber Monitor

- 5G Education Course
- Cambium Point-to-Point

- Virginia Broadband Summit
- Allen-Bradley – Programmable Logic Control

## **MEMBERSHIPS**

- Wireless Internet Service Provider Association (WISPA)
- Maryland Broadband Cooperative

- Fiber Broadband Association
- Avetta

## MICHELE WIDO

JOB TITLE      President

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### SKILLS & ABILITIES

- Economic development
  - Sales presentations
  - Customer service proficient
  - Budget management
  - Project management
  - Operations analysis
  - Results-oriented
  - Strategic project designer
  - Enthusiastic team builder
  - Excellent writer
  - Persuasive negotiator
  - MS Office, Mac, and WordPerfect proficient
  - Organized, Detailed, Driven
  - Retail experience
  - **Training:** Bai-Cells, Ubiquiti Networks, Cambium, RF Elements; 5G Education Course; Secretarial; Sales; Computer; DOS; MS Office; WordPerfect; Corel; MacOS; IOS; Windows; Grammar; Psychology; Accounting; Tsheets; Interviewing/Hiring
  - **Educational Classes:** Quickbooks; Virginia Precertification Licensing; Food Service Certification; CPR Certification; Professional Counseling Certification; Virginia Broadband Summit
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### EXPERIENCE

#### **TCA, SILVER SPRING, MARYLAND**

1985-1991

Administrative Secretary, Sales Secretary, Telemarketing, Sales, Order Taker, Retail

Accountable to VP and 8-10 sales persons. Responsible to sell architectural and engineering supplies to the Greater Richmond and Southwestern area; secretarial responsibilities to 8-10 sales persons; answering phones; taking sales orders; filing; typing; short-hand dictating; trade show assistant; answering phones; cold calling, scheduling. Worked with government contracts and private contracts. Attended training seminars

for secretarial, sales, and computers. Researched market competitors in retail and industry trends to identify potential new customers. Identified niche markets with profit potential, acquired new customer contacts, and retained the contracts. Completed purchase orders and customer invoices, fulfilled customer shipping needs. Built relationships with customers to increase sales volume. Displayed outstanding courtesy and strong interpersonal skills in all customer interactions. Trained, coached, and managed new employees in order taking and in the sales secretarial position. Proficient in sales, customer service, negotiating, team building, writing, shorthand, dictation, WordPerfect, computers, and MS DOS. Received high evaluations.

**AMERICAN INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS, WASHINGTON, DC**  
1991-1995

Administrative Secretary, Government Division

Accountable to Director and two managers. Responsibilities included assisting Director with VIP clients, working with the Employee Benefits and SEC task force, answering phones, taking messages, dictating, filing, editing audit guides and editing documents; trade show assistant; secretarial; typing, scheduling, arranging travel arrangements, including hotel, plane, car, and restaurant. Specialist in proficient writing, customer service, organizing, and teambuilding. Proficient in MS Office, WordPerfect, and detail. Assisted director with government division needs, customer service, and scheduling. Trained other secretaries in the Government Division. Assisted the Receptionist, as needed. Resolved issues in a professional and efficient manner. Attended many training seminars for computer, secretarial, and grammar. Received high evaluations.

**BIMI, MISSIONS, CHATTANOOGA, TN**  
1995-2001

Sole Proprietor, Business Administration

Accountable to BIMI. Responsibilities included, scheduling meetings, cold calling, telemarketing, typing, mailings, filing, and organizing monthly letters; arranging travel, which included, shipments, hotel, plane, car, and restaurant. Taught various educational classes, groups, organized meetings, leader, director of meetings and classes. In charge of budget management, project management, promotional material, operation analysis, estimating, presentations, customer service, economic development, team building, proficient writing, persuasive negotiator, MS Office proficient, detailed, driven, schedule, accounts receivable and accounts payable, trained counselor, Spanish translation and translator.

**COMPLETE RESIDENTIAL & COMMERCIAL CONTRACTING, INC., KING GEORGE, VA**

2002-Present

President

Accountable to CEO & Board. Responsibilities include, to follow all CRC Contracting Inc. Safety Policies and Procedures, as well as the safety requirements of our customers where applicable; ensure that the Board of Directors and its members are aware of and fulfill their governance responsibilities; comply with applicable laws and bylaws; conduct board business effectively and efficiently and ensure they are accountable for their performance; propose policies and practices; responsible for the day-to-day operating activities of the organization; translate the organization's vision and strategy into action plans to carry out the strategy and achieve the vision; provide regular reports and updates to the CEO; ensure proper policies are in place and that procedures comply with laws and regulations; manage the operating budget; provide leadership and direction to staff when CEO is absent; responsible for hiring, employee benefits, and insurance. Other duties are to coach and mentor. Proficient on MS Office (Excel/Outlook/Word/Powerpoint), Windows, WordPerfect, MacOS, and IOS. Expertise in senior leadership role; strategic and administrative execution; enthusiastic team builder; bilingual; budget management; promotional material; customer service; writing; persuasive negotiator.

**KGI COMMUNICATIONS, LLC, KING GEORGE, VA**

(wholly owned subsidiary of CRC Contracting Inc.)

2017-Present

President

Accountable to CEO. Responsibilities are mostly the same as CRC Contracting and include, to follow all Safety Policies and Procedures, as well as the safety requirements where applicable; ensure that the CEO and employees are aware of and comply with applicable laws and bylaws; conduct business effectively and efficiently and ensure they are accountable for their performance; propose policies and practices; responsible for the day-to-day operating activities of the organization; translate the organization's vision and strategy into action plans to carry out the strategy and achieve the vision; ensure proper policies are in place and that procedures comply with laws and regulations; manage the operating budget; provide leadership and direction to staff when CEO is absent; responsible for hiring, employee benefits, and insurance. Other duties are to coach and mentor. Proficient on MS Office (Excel/Outlook/Word/Powerpoint), Windows, WordPerfect, MacOS, and IOS. Expertise in senior leadership role; strategic and administrative execution; enthusiastic team builder; bilingual; budget management; promotional material; customer service; writing; persuasive negotiator.

Ensuring that KGI is complying with all legal responsibilities, including but not limited to contracts, website, and social media networks. Maintaining workable relationships with local community and surrounding counties. Working to expand broadband capabilities throughout the rural region. Finding frequencies and obtaining licenses in order to provide better broadband coverage. Filing with the FCC. Buying licensed frequencies. Obtaining unlicensed frequencies. Finding suitable locations for leasing tower space, or constructing towers or poles for broadband. Attending Broadband summits, meetings, webinars, and conferences that help to educate on the newest technologies and to be kept abreast of all broadband updates. Looking for ways to help the county to expand broadband. Troubleshooting areas where there are dead zones and no coverage exists. Exploring funding, grants, and other methods to help expedite broadband deployment.

**Memberships:**

- Wireless Internet Service Provider Association (WISPA)
- Maryland Broadband Cooperative
- Fiber Broadband Association

Matthew J. Strickler  
*Secretary of Natural Resources*

Clyde E. Cristman  
*Director*



Rochelle Altholz  
*Deputy Director of  
Administration and Finance*

Russell W. Baxter  
*Deputy Director of  
Dam Safety & Floodplain  
Management and Soil & Water  
Conservation*

Thomas L. Smith  
*Deputy Director of Operations*

**COMMONWEALTH of VIRGINIA**  
DEPARTMENT OF CONSERVATION AND RECREATION

December 10, 2018

Mr. Michael Cannon  
Chief Technology Officer  
1300 Courthouse Road  
Stafford County, 22555

Dear Mr. Cannon,

I am writing to you in support of the Virginia Telecommunication Initiative (VATI) grant which provides financial assistance to supplement construction costs by private sector broadband service providers extending service to areas currently unserved by any broadband provider. Virginia State Parks supports the efforts of Stafford County and KGI Communications, LLC in bringing high-speed broadband internet access to its customers in the region. Additionally, we would be happy to partner in this initiative by providing access locations available to the public visiting our parks. The Virginia Outdoors Plan and visitor user surveys are overwhelmingly supportive of providing high-speed Wi-Fi access in state park locations to further enhance the experience of outdoor enthusiasts.

High-speed access will enable a better recreational and educational experience to the visiting public on many levels. Environmental and interpretive programming will take advantage of better technologies, guests to Virginia State Parks will achieve a desirable level of connectivity thereby increasing attendance, and maintenance programs and business operations will improve greatly. As a result, the total increased access to high-speed broadband will enhance the economic impact of state parks in the region and benefit the Commonwealth as a whole.

Additionally, high speed internet would benefit the Widewater park staff with the delivery of training and professional education and public safety would be improved by high speed internet access. Families looking for vacation destinations would be more likely to choose state parks if they know they can maintain connectivity during their stay.

Thank you for the opportunity to comment and offer support for this initiative.

Sincerely,

A handwritten signature in black ink, appearing to read "Craig Seaver".

Craig Seaver  
State Parks Director





COMMONWEALTH OF VIRGINIA  
**GENERAL ASSEMBLY OF VIRGINIA**  
RICHMOND

December 9, 2018

Mr. Eric Johnston  
Department of Housing and Community Development  
Virginia Telecommunication Initiative  
600 East Main Street, Suite 300  
Richmond, VA 23219

RE: Support for Stafford County VATI Grant Application

Director Johnston:

The Stafford County Board of Supervisors has applied for a \$300,000 Virginia Telecommunications Initiative grant to extend broadband service to unserved areas within the county. Specifically, in the Aquia and Widewater Districts in the 36th Senate District and 2nd House District. We are writing in support of this grant.

The Widewater Peninsula currently has no access to broadband due to its isolation. Deployment of broadband on the peninsula and other rural parts of Stafford County will provide enormous educational and economic development opportunities for the surrounding community.

In addition, the grant will be used to offer WiFi in the newly opened Widewater State Park. Community members have already indicated their willingness to offer land for any necessary towers and King George Communications, LLC is offering to provide the 20% local match necessary to fund the project.

The unique geography of Widewater Peninsula offers a platform to become a living laboratory for environmental resilience. The diverse habitats provide opportunities for education and interactive study. Broadband internet throughout the park is a critical component for students and researchers to access this hands-on learning.

Please reach out to us directly if you have any questions and to provide answers to our request and thank you for your time and service to our community. It is an honor represent Stafford County in the General Assembly of Virginia.

Sincerely Yours,

A handwritten signature in black ink, appearing to read "Scott A. Surovell".

Senator Scott A. Surovell  
36<sup>th</sup> Senate District

A handwritten signature in black ink, appearing to read "Jennifer Carroll Foy".

Delegate Jennifer Carroll Foy  
28<sup>th</sup> Senate District

A handwritten signature in black ink, appearing to read "Richard Stuart".

Senator Richard Stuart  
28<sup>th</sup> Senate District

A handwritten signature in blue ink, appearing to read "Robert M. Thomas, Jr.". The signature is stylized and includes a flourish.

Delegate Robert M. "Bob" Thomas, Jr.  
28<sup>th</sup> House District



COMMONWEALTH OF VIRGINIA  
**GENERAL ASSEMBLY OF VIRGINIA**  
RICHMOND

CC: Board of Supervisors Chairwoman Meg Bohmke  
Supervisor Mark Dudenhefer  
Supervisor Jack Cavalier  
Supervisor Cindy Shelton  
School Board Chairwoman Patricia Healy  
School Board Member Irene Egan  
School Board Member Jamie Decatur