

FEB 5 - 2013

Mark Nadel

From: Hugh Manning <hugh@k12-consultants.com>
Sent: Monday, February 04, 2013 11:56 AM
To: Mark Nadel
Subject: Laurens and Dalton appeals
Attachments: Laurens_Co_Bid_ERATE_2012 rev-3.pdf

Federal Communications Commission
Office of the Secretary

CC Docket
No. 02-6

Mark: I have attached the vendor quote for Laurens County Schools as you requested. This reflects the reduced scope by the district. Our mistake was to include all their schools in the 471 request and this proposal should have been our guide.

I looked over the Dalton records and all the paperwork shows all their schools. So even though they decided to cut out some schools, I have no documentation that supports that reduction.

Sadly, I cannot figure out how to file a supplementary entry on the FCC system.

Please reply so I know this got to you, and if there is anything more I need to do. Thanks so much for calling, I really appreciate your effort on behalf of Laurens County Schools.

Thank You

Hugh Manning
 K12 Consultants
 724-350-4380
 800-288-4914
 706-243-6465 Fax

No. of Copies rec'd 1
 List ABCDE



PROGRESSIVE COMMUNICATIONS, INC.
SPIN #143029877

LAURENS COUNTY SCHOOL DISTRICT

ATTN: MR. NEAL MARTIN
TECHNOLOGY COORDINATOR
467 FIRETOWER ROAD
DUBLIN, GA 31021

INTERNAL CONNECTIONS

RESPONSE TO:

470 APPLICATION NUMBER: 546580000950024

470 FROM LAURENS COUNTY:

**ELIGIBLE LAN UPGRADES INCLUDING SWITCHES, CABLING, UPS, WIRELESS,
VIDEO, NETWORK DROPS, FIREWALL, AND WIRING TO SUPPORT 10 GIG
BACKBONES**

E-RATE PROPOSAL YR. 15 - 2012, INTERNAL CONNECTIONS

DUE DATE: FEBRUARY 28, 2012 @ 5:00 PM

SUBMITTED BY: MAX ANDERSON, ACCOUNT MANAGER

CELL: 706-474-0532 FAX: 678-669-2151

DESIGNED BY:

BRAD GRANGER, NETWORK ENGINEER
RUSSELL WAGGONER, LOW VOLTAGE ENGINEER
CHRIS MINTON, NETWORK ENGINEER

CORPORATE OFFICE
100 INDUSTRIAL PARK ROAD. MILLEDGEVILLE, GEORGIA 31601
800-092-8315
WEBSITE: pcians.com



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1. PROPOSAL TRANSMITTAL LETTER

February 28, 2012

Progressive Communications, Inc.
100 Industrial Park Road
Milledgeville, GA. 31061

Laurens County School District
467 Firetower Rd
Dublin, GA 31021
Attn: Mr. Neal Martin, Technology Coordinator

Dear Mr. Martin,

Progressive Communications, Inc. (PCI) appreciates the opportunity to provide a response to the Internal Connections portion of the Laurens County School District's request associated with the E-Rate 470 Application Number 895840000980883.

Progressive Communications, Inc. is the company's legal name with Tax Identification number 12345. PCI validates this proposal we are providing will remain valid for the term of the Contract Duration. Max Anderson can be contacted with any questions about this proposal.

If awarded, no sub-contractors will be used for this project. No individuals performing work has a conflict of interest with Glascock County Schools. The lead engineers will be Brad Granger, Chris Minton, Matt Boyette, Jason Steinmeyer, Mark Johnson and Russell Waggoner.

Please don't hesitate to contact me if you have any questions. Again, thank you for the opportunity to provide this proposal.

Sincerely,

Max Anderson
Account Manager
706.474.0532
Progressive Communications, Inc.



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2. PROGRESSIVE COMMUNICATIONS, INC.'S HISTORY

With just 4 employees, Progressive Communications, Inc. (PCI) started out serving the educational market back in 1991, long before moving into other vertical markets. We began as a network cabling resource that provided data, voice and fiber optic solutions to K-12 school districts. We actually installed the first 10BaseT Ethernet network in a State of Georgia.

PCI has evolved into a full service provider. We now offer highly certified engineers that provide and maintain the complicated networks required for today's technology needs. We proudly serve schools, government agencies, hospitals and convenience stores across the county with premier and cutting edge technologies.

Although we continue to grow, our service to education is still personal, as we understand the unique challenges school districts face when it comes to technology. Our goal is to continuously give our customers cost effective engineering and other technical services of the highest caliber available.

Please review our list of K-12 Customers provided within this proposal. Feel free to call any of them, as they are our best form of advertisement.



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3. BIDDER'S QUALIFICATIONS & DEMONSTRATED ABILITY TO PERFORM WORK

PCI submits our capabilities to your district as you seek to enter into a strategic partnership with a technology provider. All work executed at your school district will be performed by full time employees of PCI. We are proud of the highly competent and experienced employees and engineers that are on staff with Progressive. As part of this proposal, you will find a partial list of the engineer qualifications and work history.

In selecting your provider, you must consider all the areas of expertise necessary to best benefit your district. PCI has successfully been a chosen service provider for many school districts, as we understand the administrative and educational purpose of technology in a school district.

The success of your project will largely depend on selecting a technology provider with demonstrated project management skills and implementation experience combined with the ability to scale operations to meet the challenging demands of complex projects in an educational environment.

PCI has the experience and capability to provide centralized management for this partnership. We have achieved industry leading technology specializations in all areas of today's most advanced networking technologies with continuing education for our engineers and staff.

Progressive Communications, Inc. certifies and assures our compliance with the following:

- A. All work executed at your school district will be performed by full time employees of PCI. As part of this proposal, you will find a partial list of the engineer qualifications and work history.
- B. The laws of the State of Georgia.
- C. Title VI of the Civil Rights Act of 1964 and the regulations issued there under by the federal government.
- D. The Equal Employment Opportunity Act and the regulations issued there under by the federal government.
- E. The Americans with Disabilities Act of 1990 and the regulations issued there under by the federal government.
- F. The condition that the submitted proposal was independently arrived at without collusion, under penalty of perjury.



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- G. The condition that no amount shall be paid directly to or indirectly to an employee or official of the District as wages, compensation, or gifts in exchange for acting an officer, agent, employee, subcontractor, or consultant to the Proposer in connection with the procurement under this RFP.
- H. Progressive Communications, Inc. is a certified service provider for all products and services within this bid. Our E-rate Spin number is 143029877.
- I. As a successor to the founder's original company, Progressive Communications has been in business for 21 years.
- J. We now have 150 employees. The majority of our employees have been with the company for 10 years or longer. Our client base consists of K-12, Higher Education, Government Agencies, Hospitals and Commercial Markets.
- K. There are no pending litigations against Progressive Communications, Inc.
- L. PCI will comply with all of the provisions in the GCS RFP.

Progressive Communications, Inc. has never filed (or had filed against us) any bankruptcy or insolvency proceedings, whether voluntary or involuntary, or undergone the appointment of a receiver, trustee or assignee for the benefit of creditors



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4. PROGRESSIVE COMMUNICATION'S E-RATE CAPABILITIES

PCI has been an active participant in the E-Rate program since its inception.

- a. This is our 15th year working with K-12 Educational customers and the E-Rate process. Our sales and inside staff attends annual E-Rate trainings to ensure we are extremely knowledgeable in all in all E-Rate related issues.
- b. PCI averages between 12 and 17 million dollars in E-Rate sales per year. All Telecommunication's contracts are awarded under a subsidiary of PCI called ANS-Connect. We do not typically respond to Internet Access category. All other services fall under Progressive Communications, Inc., which include Internal Connections and Basic Maintenance.
- c. PCI has been providing PIA assistance for all of our awarded E-Rate contracts since the inception of the E-Rate program. As stated in item 1, all of our sales and office personal attend E-Rate training each year to get the latest changes in E-Rate rules and regulations. We actually prefer to answer the PIA questions since we are familiar with what USAC ask for during a PIA review and how to best provide accurate answers.
- d. PCI keeps all of our detailed invoices which accurately match the Item 21 provided at the award of a contract, per E-Rate guidelines. We walk and check off each item listed on the Item 21 for each school/site and label each piece of electronics equipment, servers and all other equipment with the E-Rate Year so if the customer is audited, USAC can match all items up.
- e. PCI keeps detailed Basic Maintenance records on all eligible equipment with dates and time of the repair.
- f. We have been through numerous audits with schools over the years and have never had any documented issues or red flags. PCI takes pride in our detailed records. Our future and reputation is at state as much as it is for the school districts'.
- g. We have assisted in appeals on several occasions. We just recently received approval on a county in Georgia that had their Denial overturned. We were the driving force in getting their funding approved and it totaled over \$4,000,000.



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- h. PCI has always helped our customers in need of service substitutions and extensions. When we are awarded a contract, our detailed records enable us to easily make changes needed for Service Substitutions as well as Extensions.

- i. Progressive Communications become an essential partner with the school district once we are awarded an E-Rate Contract. We are typically awarded E-Rate contracts for 15-20 (plus) school districts a years, so we have a lot of years and a lot of repeat customers each year, which proves we are one of the premiere E-Rate providers in the Southeast.

- j. PCI corporate headquarters are in Milledgeville, GA. PCI also has an office in the Buckhead area of Atlanta, Florida, Alabama, and Texas plus a national footprint of 12+ warehouses.

- k. PCI has not had any mergers, acquisitions or sales of the company in the last 10 years.



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5. PARTIAL LIST OF REFERENCES WITH OVERVIEWS

FT. GORDON YOUTH CHALLENGE ACADEMY

CONTACT: LENOXKI SMITH

706-828-8010

20 SITES: CATEGORY 6 CABLING & FIBER BACKBONE INSTALLATION, CISCO SWITCHES, SERVERS, CISCO WLAN, CISCO VOIP, CISCO FIREWALL AND MAINTENANCE.

PCI installed Category 6 Cabling and Fiber Optic installation within each building. In addition, we installed Fiber Optic Cable to provide connectivity of each building back to the main building's MDF. Cisco's Electronics, Wireless and VoIP were installed in all buildings. PCI also installed a Cisco Firewall. HP Servers were installed for Email, DHCP, and DNS.

PCI maintains their Switches and Routers, Internet connection, the content filter, and the Active Directory, DNS, and Email servers.

FT. STEWART YOUTH CHALLENGE ACADEMY

CONTACT: GIBB WALKER

912-429-0187

30 SITES: CATEGORY 6 CABLING & FIBER BACKBONE INSTALLATION, CISCO SWITCHES, SERVERS, CISCO WLAN, CISCO VOIP, CISCO FIREWALL AND MAINTENANCE.

PCI installed Category 6 Cabling and Fiber Optic installation within each building. In addition, we installed Fiber Optic Cable to provide connectivity of each building back to the main building's MDF. Cisco's Electronics, Wireless and VoIP were installed in all buildings. PCI also installed a Cisco Firewall. HP Servers were installed for Email, DHCP, and DNS.

PCI maintains their Switches and Routers, Internet connection, the content filter, and the Active Directory, DNS, and Email servers.

PULASKI COUNTY SCHOOLS, GA.

CONTACT: ROBIN WHITE

478-783-7200

4 SITES: CATEGORY 6 CABLING AND FIBER BACKBONE INSTALLATION, HP PROCURVE SWITCHES, WLAN, NETWORK ENGINEERING FOR NOVELL/EDIR/GROUPWISE, MICROSOFT ACTIVE DIRECTORY AND MAINTENANCE.

PCI has provided Category 6 Cabling and Fiber Backbone Wiring and wireless installation at two of the schools. Installation of WLAN Controller at one school has allowed for detection and removal of rogue access points and clients. PCI as installed Link Balancer technology to bond two ISP connections for a total of 22 MEGS of download bandwidth.

PCI maintains their Switches and Routers, Internet Connections, Websense Content Filter, Active Directory, DNS and Email Servers.



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WHEELER COUNTY SCHOOLS, GA.

**CONTACT: GINA ROE
912-568-7303**

3 SITES: CATEGORY 6 CABLING & FIBER BACKBONE INSTALLATION, CISCO SWITCHES, CISCO WIRELESS A/PS, NETWORK ENGINEERING FOR NOVELL/EDIR AND MICROSOFT ACTIVE DIRECTORY. HP SERVERS, WLAN, VALCOM CLASS CONNECTION AND MAINTENANCE
*PCI installed a Valcom Class Connection Intercom Voice Only System, retrofitting it to the existing cables and speakers and tied it into their existing telephone infrastructure.
PCI maintains their Switches, Routers, Internet Connection Content Filter, Active Directory, DNS and Email Servers.*

VIDALIA CITY SCHOOLS

**CONTACT: SABRINA WIGGS
912-537-3088**

6 SITES: CATEGORY 6 CABLING & FIBER BACKBONE INSTALLATION, HP PROCURVE SWITCHES, SERVERS, WLAN, NETWORK MICROSOFT ENGINEERING FOR ACTIVE DIRECTORY AND EXCHANGE AND MAINTENANCE
*PCI installed a Fiber WAN, replaced all MDF and IDF electronics with HP Networking Equipment, Setup Websense, Provided and Setup Web and DNS Servers and Active Directory. Through the Network Maintenance Contract, we have been able to setup VLANs for segmenting traffic and cleaned up internet utilization making it far more efficient, and removed many system wide security flaws and threats to student information.
PCI maintains their Switches and Routers, Internet Connection, the Websense Content Filter, and the Active Directory, DNS, and Email servers.*

BROOKS COUNTY SCHOOLS, GA.

**CONTACT: RON PETERSON
229-263-7531**

5 SITES: CATEGORY 6 & FIBER BACKBONE WIRING, CISCO ELECTRONICS, WLAN, SHORETEL VOIP, VALCOM CLASS CONNECTION AND MAINTENANCE
*PCI Installed and maintains all network LAN, Fiber WAN and Internet connectivity for all Brooks County Schools using multiple Internet Connections. PCI also installed ShoreTel VoIP at all locations including one over a 100 Meg Wireless link to a remote school. PCI also installed a Class Connect Video Communications System for their new High School which opened this school year (2009).
PCI maintains their Switches and Routers, Internet Connections, Content Filter, Active Directory and the HP DNS and Email Servers.*

GLYNN COUNTY SCHOOLS, GA.

**CONTACT: BOB SWARTZ
912-267-4100**

7 SITES: CATEGORY 6 & FIBER BACKBONE WIRING AND VALCOM CLASS CONNECTION
PCI has installed all new Category 6 cabling in three of the site sites, replaced the LAN Optical Fiber Backbone in one of the sites and installed Valcom's Class Connection Video Intercom Systems in two of the sites which allows visual and audio communications into each classroom. PCI also installed Security Cameras in one of the sites.



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GREENE COUNTY SCHOOLS , GA

**CONTACT: TINA MASON
706-453-3318**

8 SITES (7 SCHOOLS): NETWORK CABLE INSTALLATION, WLAN INSTALLATION, SAFARI MONTAGE, NETWORK ENGINEERING FOR MICROSOFT ACTIVE DIRECTORY AND MAINTENANCE.

Designed, implemented & maintain wireless infrastructure throughout entire district. Implemented & maintain wireless captive portal solution using Cisco's Lobby Admin. Implemented & maintain IEEE 802.1x wireless authentication using Cisco WISM and LAPs. We also maintain their Cisco & Microsoft Network Infrastructure. We consolidated multiple domains into one Active Directory, migrated Exchange environment from 5.5 to 2000 to 2003 to 2007. Implemented & maintain multipath 10 Gb WAN backbone using Cisco Etherchannel Technology.

LIBERTY COUNTY SCHOOLS, FL.

**CONTACT: JASON FOWLER
850-643-2275 EXT. 238**

3 SITES: NETWORK CABLING AND INFRASTRUCTURE UPGRADES

PCI has provided Network Infrastructure Upgrades, HP Installation and Configurations, OSP installation: Fiber between School and BOE.

MCINTOSH COUNTY SCHOOLS, GA.

**CONTACT: ZAC CROSBY
912-437-8942**

4 SITES: CATEGORY 6 CABLING AND FIBER BACKBONE INSTALLATION, CISCO SWITCHES, HP SERVERS, WLAN, MAINTENANCE.

PCI has provided Category 6 Cabling and Fiber Backbone Wiring and wireless installation at two of the schools. Installation of WLAN Controller at one school has allowed for detection and removal of rogue access points and clients. PCI as installed Link Balancer technology to bond two ISP connections for a total of 22 Megs of download bandwidth.

PCI maintains their Switches and Routers, Internet Connections, Websense Content Filter, Active Directory, DNS and Email Servers.

BALDWIN COUNTY SCHOOLS

**CONTACT: VICKIE HARMON
478-457-3313**

8 SITES: CATEGORY 6 AND FIBER BACKBONE WIRING, CISCO SWITCHES, HP SERVERS, WLAN, MAINTENANCE

PCI has totally rewired the Baldwin county school system; including replacing switches, fiber connections, wireless installations, and internet connectivity. Through PCI's work, the school system has almost eliminated numerous outages and bogged systems that plagued the network for quite some time. Wireless has segregated and secured with portal authentication and secure communications throughout. PCI has also installed a Class Connect Video Communications system for Oak Hill Middle School which is sub-divided into four separate entities with distinct schedules, call zones, and operators.

PCI maintains their Switches and Routers, Internet connection, the content filter, and the Active Directory, DNS, and Email servers.



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6. RESUMES - PARTIAL LIST OF PCI'S ENGINEERING STAFF

Jimmy Lister, Engineer

Industry Experience: 13 years

WORK HISTORY

- Extensive knowledge and experience with NT4 Workstation/Server, Windows 2000 Workstation/Server, Windows XP Pro, Windows 7, Server 2003, Server 2008, Exchange 2000, Exchange 2003, Exchange 2007, RPC over HTTPS, NTDS, Active Directory, Group Policies, IIS, DNS, and WINS technologies.
- Extensive knowledge and experience with Cisco networking equipment and technologies – core layer/layer 3 switches, VLANs and VTP, QoS, VoIP, Cisco routers, PIX/ASA firewall, VPN/PPTP/IPSec/CAV/SSL VPN, IPS, Load Balancers, Aironet wireless IEEE 802.11b and 802.11g, wireless securities WPA2 & IEEE 802.1x, Nexus data center switches.
- Extensive knowledge and experience with VM Ware technologies – VMware vSphere, ESXi, vCenter Server, vMotion, backup and recovery.

CERTIFICATIONS

- MCTS- Exchange 2007 Configuration
 - MCSE- Messaging
 - Cisco Certified Security Professional
 - Cisco Unity Support Specialist
 - Cisco CCIE candidate
-



E-RATE SPIN NUMBER 143029877

Chris Minton, Engineer
Industry Experience: 13 years

WORK HISTORY

- Extensive knowledge and experience with NT4 Workstation/Server, Windows 2000 Workstation/Server, Windows XP Pro, Windows 7, Server 2003, Server 2008, Exchange 2000, Exchange 2003, Exchange 2007, RPC over HTTPS, NTDS, Active Directory, Group Policies, IIS, DNS, and WINS technologies.
 - Extensive knowledge and experience with Cisco networking equipment and technologies – core layer/layer 3 switches, VLANs and VTP, QoS, VoIP, Cisco routers, PIX/ASA firewall, VPN/PPTP/IPSec/CAV/SSL VPN, Aironet wireless IEEE 802.11b and 802.11g, wireless securities WPA2 & IEEE 802.1x.
 - Extensive knowledge of technology in K12 school districts – 12+ years.
 - Experience with Novell Netware 4.11, 5.0, 5.1, 6.0, NDS, and eDirectory.
 - Experience with project management – Baldwin E-Rate Year 9, 10, 11 and Greene E-Rate Year 6, 7, 8, 9, 10, 11, 12.
-

CERTIFICATIONS

- Cisco CCSP
 - Cisco CCNA
 - Cisco CCIE candidate
 - Microsoft MCSE: Messaging
 - Microsoft MCP
 - Microsoft MCTS
 - Novell CNA
 - CompTIA A+
-



E-RATE SPIN NUMBER 143029877

LeVar Jones, Engineer

Industry Experience: 12 years

WORK HISTORY

- Extensive knowledge and experience with NT4 Workstation/Server, Windows 2000 Workstation/Server, Windows XP Pro, Windows 7, Server 2003, Exchange 2003, Exchange 2007.
 - Extensive knowledge and experience with Cisco networking equipment and technologies – core layer/layer 3 switches, VLANs and VTP, QoS, VoIP, Cisco routers, PIX/ASA firewall, Aironet wireless IEEE 802.11b and 802.11g, wireless securities WPA2 & IEEE 802.1x.
 - Experience with Cisco VOIP, Cisco Unified Communications Manger Express, Cisco Unified Communications Manager, Unity, Unity Connections
 - Experience with Novell Netware 4.11, 5.0, 5.1, 6.5, NDS, Linux OES2 and eDirectory.
-

CERTIFICATIONS

- Cisco CCNA
 - Cisco Express Foundation Field Specialist
 - Cisco Advanced Wireless Field Specialist
 - CNE - Netware 6
 - CNA - Groupwise 6
 - CompTIA Network +
-



E-RATE SPIN NUMBER 143029877

Brad Grainger, Engineer
Industry Experience: 7 years

WORK HISTORY

- Extensive knowledge and experience with Windows 2000 Server, Server 2003, and Server 2008.
- Extensive knowledge and experience with Windows workstation 2000, Windows XP Pro, Windows Vista, and Windows 7.
- Extensive knowledge and experience with Exchange 2000, Exchange 2003, Exchange 2007.
- Extensive knowledge and experience with services including Active Directory, Group Policy, IIS, DNS, WINS, and DHCP.
- Extensive knowledge and experience with Cisco Switches, Routers, and Firewalls including layer 3 switches, VLANs and VTP, QoS, VoIP, VPN/PPTP/IPSec/CAV/SSL VPN.
- Extensive knowledge and experience with Cisco Wireless technologies including Cisco WLAN controllers, Autonomous Access Points, and wireless securities including Certificate Management, RADIUS, WEP, and WPA2.
- Extensive knowledge and experience with Cisco VoIP and ShoreTel VoIP Systems
- 7 Years of technology experience in K-12 School Districts
- Experience with Linux including Ubuntu, Redhat, IPCOP, Pfsense and Backtract
- Experience with Internet Content Filters including Lightspeed Systems, Websense, Astro, Baracuda, Dansguardian, Squidguard and OpenDNS
- 6 Plus years of experience with Federal Gov't., Healthcare Information Systems including Helpdesk Management, Program Analysis, and Network and Database Administration

CERTIFICATION

- Cisco CCIE #28354 (Routing & Switching)
- Cisco CS-VOIP
- Cisco CS-Advanced Wireless Design
- Microsoft MCSE
- Microsoft MCSA
- Microsoft MCP
- CompTIA Network+ /CompTIA Server+ /CompTIA A+
- Crystal Reports Specialist
- HP ASE
- HP AIS



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MATT BOYETTE, ENGINEER

Industry Experience: 15 years

WORK HISTORY

- Extensive knowledge and experience with Windows 2000 Workstation/Server, Windows XP Pro, Windows 7, Server 2003, Server 2008 R2, Exchange 2003, Exchange 2007, NTDS, Active Directory, Group Policies, IIS, DNS, and WINS technologies.
 - Extensive knowledge and experience with Cisco, HP, and Dell networking equipment, and interoperability between vendors.
 - Extensive knowledge and experience working with wireless products from HP, Cisco, and other vendors
 - Extensive knowledge of technology in K12 school districts – 15 years. Former Technology Director
 - Extensive experience with Novell Netware 4.11, 5.0, 5.1, 6.0, 6.5, OES-Linux, NDS, eDirectory, Groupwise
 - Experience Installing and Implementation of clustered and standalone virtualization environments utilizing VMWare ESX and ESXi
 - Experience implementing open-source firewalling packages such as pfSense, IPCop, etc., as well as open-source storage packages such as FreeNAS, OpenFiler, etc.
-

CERTIFICATIONS

- Cisco CCNA
 - HP AIS
 - HP ASE
 - CompTIA A+
 - CompTIA Network+
 - Novell CNA
-



E-RATE SPIN NUMBER 143029877

Russell Waggoner, Cabling Engineer/Project Manager

Industry Experience: 10+ years

WORK HISTORY

- Extensive knowledge of the cabling industry.
 - Field installation technician from 2000 to 2006
 - Owned a cabling contracting company from 2005 to 2009.
 - Extensive knowledge in inside plant cable networks.
 - Extensive knowledge in outside plant cable networks.
 - Extensive knowledge in optical fiber networks.
 - Extensive knowledge in Data Centers
 - Extensive knowledge and experience working with owner, engineers and architects in the design of the cable infrastructure.
 - Extensive knowledge and experience in project management in making sure projects are completed in time and within budgets.
 - Extensive experience in working one on one with the customer to make sure the customer is satisfied with the project.
 - Experience with Cat3, Cat5e, Cat6, and Cat6a, Optical fiber, Fire Alarm, Overhead Paging, CATV, MATV, and CCTV networks.
-

CERTIFICATION

- Georgia Low Voltage License
 - North Caroling Low Voltage License
 - Florida Low Voltage License
 - Panduit Certified Installer
 - Ortronics Certified Installer
 - Leviton Certified Installer
 - Studying for BICSI Outside Plant Design
-



E-RATE SPIN NUMBER 143029877

MARK JOHNSON, PROJECT MANAGER

Industry Experience: 10 years

WORK HISTORY

- Extensive knowledge and understanding of network infrastructures
 - Designs and installs Valcom, Class Connect, Intercom Systems
 - Designs and installs Honeywell and Exaqt, Surveillance Systems
 - Design and installs Cisco networking equipment and technologies, including Cisco WLAN controllers, Autonomous Access Points, and wireless securities
 - Extensive knowledge and experience in wireless design, analysis, security using technologies
 - Project Manages K-12 projects involving Data, Voice, Video, Surveillance
 - Extensive Experience and knowledge working with K-12 school districts with the Erate program.
-

CERTIFICATIONS

- BICSI RCDD
 - Fluke Certified
 - Molex Premise Network Certified Installer
 - Panduit Certified Installer
 - Member of BICSI
 - Valcom Certified
 - Honeywell Certified installer
 - Exaqt Certified
 - Class Connect Certified Installer
-



E-RATE SPIN NUMBER 143029877

Jason Steinmeyer, Network Engineer

Industry Experience: 8 years

WORK HISTORY

- Extensive knowledge in installation, set up, and configuration of Safari Montage and video distribution systems. Successfully integrated these into existing systems and VBrick continue to maintain and service according to system needs. 20+ years Audio/Video experience.
 - Knowledge and experience Windows 2000 Workstation/Server, Windows XP Pro, Windows 7, Server 2003, Exchange 2003, Exchange 2007, Active Directory.
 - Extensive knowledge and experience with Smartboard and Promethean Interactive boards. Installation and setup of height adjustable, fixed, and portable systems. Installation of audio/video wall plates and speaker systems. Knowledge of all front projection projectors including ceiling mounting overhead and arm mount short throw.
 - Experience with IP Cameras, Video Surveillance Servers and DVR equipment including hardware/software set up, configuration, and troubleshooting.
 - Experience installing, maintaining, and repairing computer hardware and software. Diagnosing, repairing, replacing parts, and testing after completion. Knowledge of building computer images for cloning working with Symantic Ghost/Fog project.
-

CERTIFICATION

- SAFARI Montage Certified Installer
 - CompTIA A +
 - Computer Hardware Specialist
 - Network Technician
-



E-RATE SPIN NUMBER 143029877

Reid Johnson, Network Engineer

Industry Experience: 6 years

WORK HISTORY

- Extensive experience and knowledge of PC imaging, installation, diagnostics and troubleshooting/repair.
 - Knowledge and experience with NT4 Workstation/Server, Windows 2000 Workstation/Server, Windows XP Pro, Windows 7, Server 2003, Server 2008, Exchange 2000, Exchange 2003, Exchange 2007
 - Knowledge and experience with Active Directory, Group Policies, and DNS technologies.
 - Experience with Cisco networking equipment and technologies – core layer/layer 3 switches, VLANs, VoIP, Cisco routers, Aironet wireless IEEE 802.11b and 802.11g, wireless securities WPA2 & IEEE 802.1x.
 - Extensive knowledge and experience of technology in K12 school districts and environments – 2+ years.
 - Knowledge and experience with Microsoft Office Products including Outlook, PowerPoint, Excel, Publisher and Visio.
 - Experience with installation of network lines and termination of CAT5 and Cat6 Networks.
-

CERTIFICATION

- CompTIA A+
 - CompTIA Network+
-



E-RATE SPIN NUMBER 143029877

Brian Daniel, Network Engineer

Industry Experience: 14 years

WORK HISTORY

- Knowledge and experience with NT4 Workstation/Server, Windows 2000 Workstation/Server, Windows XP Pro, Windows 7, Server 2003, Server 2008, Exchange 2000, Exchange 2003, Exchange, 2007, Active Directory, Group Policy, IIS, DNS, and WINS Technologies.
 - Knowledge and experience with Cisco Networking Equipment and Technologies, Core Layer/Layer 2/3 Switches, VLANs, Cisco Routers, PIX/ASA Firewalls, VPN/PPTP/IPSec/SSL VPN, Aironet Wireless 802.11a/b/g/n
 - Knowledge and experience with various other LAN/WAN Technologies including Single Mode/Multimode Fiber, CAT5, CAT5e and CAT6 Cable installation, termination and testing. Outside Plant includes aerial and burial installations. Hardware/software knowledge and experience required to fully implement LAN/WAN services and functionality
-

CERTIFICATION

- Cisco CCNA
 - Microsoft MCSE
 - Microsoft MCP
 - CompTIA A+
 - CompTIA Network+
 - Registered Leviton Telcom Certified Installer
 - Fiber Optic Cable Termination Certified Installer
-



E-RATE SPIN NUMBER 143029877

Ben Holton, Field Engineer

Industry Experience: 18 years

WORK HISTORY

- Bachelor of Information Technology
- Extensive knowledge and experience with ShoreTel VOIP system design, troubleshooting, implementation, and integration with other technologies
- Extensive knowledge and experience in Windows Server 2000, 2003, & 2008
- Extensive knowledge and experience Windows 3.1(1), Windows 95, Windows 98, Windows Workstation NT 3.51, Windows Workstation 4.0, 2000, Windows XP , Windows Vista
- Extensive knowledge and experience with Exchange 2000 and Exchange 2003
- Extensive knowledge and experience in services such as DNS, DHCP, WINS, Active Directory, IIS, Group Policy configuration, and replicating file systems
- Extensive knowledge and experience with Linux systems such as Ubuntu, RedHat, Mandrake, IPCOP, PFSense
- Extensive knowledge and experience in SQL Server 2000 and 2003
- Extensive knowledge and experience with replicating SQL databases
- Extensive knowledge and experience in using IIS, Apache, PHP, and MySQL
- Extensive knowledge and experience with Cisco Wireless technologies including Cisco WLAN controllers, Autonomous Access Points, and wireless securities including Certificate Management, WEP, and WPA2
- Extensive knowledge and experience with Cisco switches, routers, firewalls
- Extensive knowledge and experience in wireless design, analysis, security using technologies such as RADIUS, WEP, WPA, WPA2
- Extensive knowledge and experience with internet content filtering such as Websense, Baracuda, DansGuardian, Squidguard, and OpenDNS
- Extensive knowledge and experience in the management and distribution of IT hardware and software for varied markets from K-12 school districts to wholesale corporations
- Experienced with Data Integrity Design, Computer Lifecycle Management, Team Management, Project Planning, and Federal Contracting ISO 9001 Compliance. Administration.
- 5 years USMC as a Computer Technician where working for the General of 1st FSSG as one of two engineers at the Information Systems Management Office. Also, was responsible for entire battalion computer ADPE assets as the Information Technology Coordinator at Headquarters and Service Battalion.



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Ben Holton, Field Engineer

Continued

CERTIFICATION

- ShoreTel Advanced VOIP Engineer
 - ShoreTel VOIP Installer
 - Comptia Linux+ Certification
 - Comptia A+ Certification
 - Cisco training and instruction
 - V-Tel Certified
 - Class Connection PVBX Certified
 - First Line Digital Surveillance Certification
 - ExacqVision Certified
 - Master NT4 Certification
 - Lotus Notes Basic Certification
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7. TECHNICAL APPROACH – MILESTONES

- LCBOE awards PCI as vendor of Cabling, Data Networking, Wireless, and Video Project
- SLD commits to fund LCBOE for Cabling, Data Networking, Wireless, and Video Project
- LCBOE issues PO to PCI
- PCI and LCBOE conduct pre-installation meetings
- Electronics delivered to PCI
- PCI delivers electronics to LCBOE
- PCI begins network infrastructure upgrade as scheduled by LCBOE
- Periodic walkthrough and meetings with LCBOE and PCI
- PCI completes network infrastructure upgrade and video project
- PCI registers all equipment to LCBOE
- Post-project site survey with delivery of network documentation and sign off
- Transfer of knowledge to LCBOE



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8. SERVICE PROVIDER CONTRACT – INTERNAL CONNECTIONS, E-RATE YR. 15, 2012

**SERVICE PROVIDER CONTRACT
INTERNAL CONNECTIONS AND BASIC MAINTENANCE**

THIS AGREEMENT entered into entered in between Progressive Communications, Inc. (“PROGRESSIVE”) and Laurens County School System (“SCHOOL”) on this 19th day of March, 2012;

WHEREAS PROGRESSIVE is a service provider capable of creating, installing and operating local area networks (LANS), wide area network systems (“WANS”) and providing basic maintenance of internal connections;

WHEREAS SCHOOL owns or operates a “school” [as defined in the “No Child Left Behind Act of 2001”] (20 U.S.C. § 7801(18) and (38)) or a library as defined in the “Services and Technology Act” (Pub. L. # 104-208);

WHEREAS SCHOOL has developed a “technology assessment” and a “technology plan” in anticipation that SCHOOL will be entitled to participate under the “Schools and Libraries Program of the Universal Service Fund” (commonly referred to as “E-Rate”), through which telecommunication services and/or internet services are provided through differing levels of support dependent upon the level of poverty and the urban-rural status of the population served;

WHEREAS SCHOOL has submitted its technology plan for approval, and has also filed a “Form 470” by placing it on Universal Service Administrative Company’s website, which form describes the specific services or functions sought;

WHEREAS PROGRESSIVE has submitted a “bid” to provide services to SCHOOL and has been deemed by SCHOOL to be the best and most desirable bidder;

WHEREAS SCHOOL has obtained, or expects to shortly obtain, approval and funding of it technology plan;
and



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**SERVICE PROVIDER CONTRACT
INTERNAL CONNECTIONS**

WHEREAS SCHOOL and PROGRESSIVE wish to enter into this Contract and memorialize the fact that SCHOOL has chosen PROGRESSIVE to provide these services, subject to funding and other conditions as hereinafter set forth:

In consideration of the foregoing and the promises hereinafter set forth, it is agreed as follows:

1. SERVICES TO BE PROVIDED BY PROGRESSIVE. Referenced to this Contract is the Form 470 submitted by SCHOOL and PROGRESSIVE' bid in response thereto, and these documents shall be deemed the work and services to be performed by PROGRESSIVE. The work shall be performed in accordance with a schedule to be later agreed upon once funding is provided as described below, and as outlined in the bid proposal submitted by PROGRESSIVE.

2. PAYMENT. SCHOOL agrees that their portion of the contract will be due to PROGRESSIVE prior to work beginning. This allows PROGRESSIVE time to obtain the canceled check back from the SCHOOL which will be necessary to have prior to E-Rate releasing their portion of the contract payment to PROGRESSIVE.

SCHOOL agrees that the portion of the contract funded by the E-rate program may be paid in full to PROGRESSIVE at the beginning of the contract work to reduce the financing cost and thus the overall costs of the work to SCHOOL. SCHOOL hereby authorizes and directs the payment of the E-Rate portion of the contract payment to PROGRESSIVE prior to initiation of the work.

3. FORM 471. SCHOOL agrees that it has (or will) file Form 471 ("Services Ordered and Certification Form") to properly calculate and obtain the discount (i.e. support) to be received by SCHOOL. SCHOOL also agrees that if this has not been done already, it will make good faith efforts to properly fill out and file this form and to obtain the discount to which SCHOOL would be entitled under FCC Rules. SCHOOL further agrees to take all necessary steps to facilitate and expedite application review, and to obtain a positive decision on SCHOOL's funding request by The Universal Service Administrative Company.

4. FAVORABLE FUNDING DECISION CONDITION. SCHOOL and PROGRESSIVE agree and understand that a favorable funding decision by Universal Service Administrative Company with respect to the discount or support sought by SCHOOL under the "E-Rate" program is a condition to the performance of services by PROGRESSIVE and payment by SCHOOL. PROGRESSIVE shall not be required to begin work on its contract until and unless a favorable funding decision is received by SCHOOL and SCHOOL shall not be required to pay PROGRESSIVE any money until and unless a favorable funding decision has been received



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by it. However, once a favorable funding decision has been received by SCHOOL, PROGRESSIVE shall be obligated to perform the services described in the attachments, and SCHOOL shall be obligated to make payments as set forth above.

FAVORABLE FUNDING DECISION CONDITION EXCEPTION: Under the category of Basic Maintenance of Internal Connections an exception will apply. The funding year for Basic Maintenance is July 1, 2012-June 30, 2013 and is a recurring service. We will begin providing service to the SCHOOL on July 1st even if they have not received a Funding Decision Letter. We will require the SCHOOL to pay PROGRESSIVE for their portion of the Basic Maintenance on July 1st. Once E-Rate has funded, PROGRESSIVE will invoice E-Rate on a monthly basis for 12 equal payments. If the Basic Maintenance does not fund for whatever reason then the SCHOOL will be responsible for paying PROGRESSIVE for the BALANCE incurred. The SCHOOL has the option to wait to receive services for Basic Maintenance until they have received the FCDL and thus causing the SCHOOL'S portion not to be due until that time.

5. APPLICABLE LAW. This shall be a binding Contract between PROGRESSIVE and SCHOOL, and shall be governed by Georgia law. In the event there is a dispute, any such dispute may be brought by either party in the Superior Court of Baldwin County, Georgia.

6. ALL AGREEMENT. This is the entire Agreement between the parties and no other oral or written understanding shall be binding unless contained herein. This Agreement may be amended by an amendment referring to this Agreement and signed by both parties.

LAURENS COUNTY SCHOOL SYSTEM

By: _____

Title _____

Witness _____

PROGRESSIVE COMMUNICATIONS, INC.

By: _____

Title _____

Witness _____



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9. DESCRIPTION OF PROPOSAL

Progressive Communications, Inc. (PCI) is pleased to provide pricing for turnkey network infrastructure upgrades as listed within this proposal in Laurens County Georgia.

PCI proposes to upgrade Laurens network as outlined in the RFP. All work will be performed as to not interrupt instruction or the educational process and PCI will install and configure based on Laurens preference.

PCI will provide, install and configure new equipment to Laurens specifications at nine locations ensuring the switches integrate with any existing equipment.

PCI will provide a solution for the BOE MDF that will support existing switch connections and also 10GB connectivity to IDF1, & IDF2. This solution will also support 4 available slots for 10GB connections to the WAN. This solution will also include a Premium License for advanced routing features.

PCI will provide a solution for BOE-IDF1-TechOffice that will support 24 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF.

PCI will provide a solution for BOE-IDF2 that will support 24 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF.

PCI will install OM3 Armored CMR Laser Opt 50 micron fiber from MDF to IDF1, & IDF2 at BOE.



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PCI will provide a solution for the SWL MDF that will support 216 GB Ethernet connections with at least 24 POE ports and also 10GB connectivity to IDF1, IDF2, & IDF3. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack. This solution will also support 2 available slots for 10GB connections to the WAN. This solution will also include a Premium License for advanced routing features.

PCI will provide a solution for SWL-IDF1 that will support 192 GB Ethernet connections with at least 48 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for SWL-IDF2 that will support 192 GB Ethernet connections with at least 48 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for SWL-IDF3 that will support 216 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will install OM3 Armored CMR Laser Opt 50 micron fiber from MDF to IDF1, IDF2, & IDF3.

PCI will provide a solution for the Xroads MDF that will support 144 GB Ethernet connections with at least 24 POE ports. This solution also includes pulling an additional 72 data drops back to the MDF as requested. This solution will also support 2 available slots for 10GB connections to the WAN. This solution will also include a Premium License for advanced routing features.

PCI will provide a solution for the ELHS/ELMS MDF that will support 96 GB Ethernet connections with at least 24 POE ports and also 10GB connectivity to ELH-IDF1, ELH-IDF2, ELH-IDF3, ELH-IDF4,



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ELH-IDF6, ELH-IDF-Gym, ELH-IDF-Fieldhouse, ELM-IDF1, ELM-IDF2, & ELM-IDF-Gym. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack. This solution will also support available slots for 10GB connections to the WAN. This solution will also include a Premium License for advanced routing features.

PCI will provide a solution for ELH-IDF1 that will support 192 GB Ethernet connections with at least 48 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for ELH-IDF2 that will support 144 GB Ethernet connections with at least 48 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for ELH-IDF3 that will support 168 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing new racks for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for ELH-IDF4 that will support 120 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration.

PCI will provide a solution for ELH-IDF6 that will support 96 GB Ethernet connections with at least 48 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections.

PCI will provide a solution for ELH-IDF-Gym that will support 24 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF.

PCI will provide a solution for ELH-IDF-Fieldhouse that will support 24 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF.



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PCI will provide a solution for ELM-IDF1 that will support 168 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for ELM-IDF2 that will support 192 GB Ethernet connections with at least 48 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for ELM-IDF-Gym that will support 72 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections. This solution also includes pulling an additional 24 data drops back to the Gym IDF as requested.

PCI will install OM3 Armored CMR Laser Opt 50 micron fiber from MDF to ELH-IDF1, ELH-IDF2, ELH-IDF3, ELH-IDF4, ELH-IDF6, ELH-IDF-Gym, ELH-IDF-Fieldhouse, ELM-IDF1, ELM-IDF2, & ELM-IDF-Gym.

PCI will provide a solution for the ELE MDF that will support 288 GB Ethernet connections with at least 48 POE ports and also 10GB connectivity to IDF1, IDF2, & ELP MDF. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack. This solution will also support available slots for 10GB connections to the WAN. This solution will also include a Premium License for advanced routing features.

PCI will provide a solution for ELE-IDF1 that will support 168 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.



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PCI will provide a solution for ELE-IDF2 that will support 120 GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will install OM3 Armored CMR Laser Opt 50 micron fiber from MDF to IDF1, & IDF2. PCI will also install Single Mode fiber between the ELE MDF and ELP MDF.

PCI will provide a solution for the ELP MDF that will support 120 GB Ethernet connections with at least 24 POE ports and also 10GB connectivity to IDF1, IDF2, IDF3, & ELE MDF. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack. This solution will also support 2 available slots for 10GB connections for future WAN planning. This solution will also include a Premium License for advanced routing features.

PCI will provide a solution for ELP-IDF1 that will support 120GB Ethernet connections with at least 24 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for ELP-IDF2 that will support 144 GB Ethernet connections with at least 48 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.

PCI will provide a solution for ELP-IDF3 that will support 144 GB Ethernet connections with at least 48 POE ports and 10GB connectivity to MDF from each switch. Switches will also have stacked connections in a redundant configuration. The solution includes installing a new floor rack for network electronics and moving patch panels/existing equipment to new rack.



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PCI will install OM3 Armored CMR Laser Opt 50 micron fiber from MDF to IDF1, IDF2, & IDF3. PCI will also install Single Mode fiber between the ELE MDF and ELP MDF.

PCI will provide and install new patch cables in MDF & IDFs. All MDF Switches will utilize 1 ft & 3ft patch cables for corresponding patch panels. IDF switches will be patched in with 1 ft patch cables.

PCI will provide and install UPS's with capacity to meet 150% of the load of installed equipment. This solution will also include installing UPS Network Management Modules.

PCI will ensure all new equipment is registered to Laurens and will provide a list of equipment with applicable contract numbers.

PCI will perform basic knowledge transfer for new equipment at the end of the project and will make recommendations, if seen, for changes that will allow Laurens technology better serve student learning.



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10. PRICE & BILL OF MATERIALS

CABLING UPGRADES

BOE - Wiring closet upgrades to support 10 GB backbone, patch cables, drops for wireless						
Horizontal						
Genspeed 6 CMP Blue	7131800	General	1000	\$0.32		\$321.00
Workstation						
Cat6 Jack Blue	NK688MBU	Panduit	3	\$5.27		\$15.81
2-Port Surface Mount box Off White	NK2BXIW-A	Panduit	3	\$2.57		\$7.71
Blank Off White bag of 10	NKBMIW	Panduit	3	\$0.23		\$0.69
Cat6 Patch Cord Blue 10'	MCTP6BI-6-10	Generic	3	\$2.98		\$8.94
Backbone						
12 Strand OM3 OSP Laser Opt	BE0123M1A-DWB	General	700	\$1.89		\$1,323.00
SC OM3 Unicam Fiber Connector	95-050-41-X	Corning	48	\$15.28		\$733.44
12 Strand Fan Out Kit	FAN-012	Corning	4	\$21.13		\$84.52
SC-LC OM3 Laser OPT 3M Patch Cord	0	Generic	24	\$16.25		\$390.00
Communications Room						
24 Port Field Config Patch Panel	NKPP24P	Panduit	1	\$0.00		\$0.00
Cat6 Jack Blue	NK688MBU	Panduit	3	\$5.27		\$15.81
Cat6 1' Patchcord Blue	MCTP6BI-6-10	Generic	3	\$1.11		\$3.33
Blank Jack Black Bag of 10	NKBMBL	Panduit	21	\$0.23		\$4.83
Consumables & Misc. Material						
Firestop Bar	FSP	Nelson	0.5	\$23.40		\$11.70
8" Tie Wrap Clear bag of 100	T50R9C2	Hellerman	1	\$3.25		\$3.25
8" Tie Wrap Plenum bag of 100	T50R2C2UL	Hellerman	1	\$9.10		\$9.10
15' Roll of Black Velcro	GT.75X1800	Hellerman	1	\$9.10		\$9.10
Electrical Tape	TARTAN1710-3M	Hellerman	1	\$1.04		\$1.04
Panduit label Tape (100 Labels)	C195XOY1C	Panduit	0.03	\$49.40		\$1.48
Cable Label Refill	514-REF	Hellerman	0.03	\$7.74		\$0.23
Misc. Material	PCI	PCI	0.5	\$162.50		\$81.25
					Materials:	\$3,026.23
					Labor:	\$2,577.63
					Total:	\$5,603.86



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CABLING UPGRADES - CONTINUED

Crossroads - Wiring closet upgrades, all new drops, patch cables, drops for wireless					
Horizontal					
Genspeed 6 CMP Blue	7131800	General	39000	\$0.32	\$12,519.00
Workstation					
Cat6 Jack Blue	NK688MBU	Panduit	166	\$5.27	\$874.82
2-Port Faceplate Off White w/ labels	NK2FIWY	Panduit	78	\$1.27	\$99.06
2-Port Surface Mount box Off White	NK2BXIW-A	Panduit	3	\$2.57	\$7.71
Blank Off White bag of 10	NKBMIW	Panduit	84	\$0.23	\$19.32
Cat6 Patch Cord Blue 10'	MCTP6BI-6-10	Generic	166	\$2.98	\$494.68
1.25"x8' Off White	TSR2FW-8A	Hellerman	100	\$11.70	\$1,170.00
2" Deep Single Gang Box Off White	TSRFW-JB2	Hellerman	100	\$4.49	\$449.00
Fastening (Screws & Anchors)	PCI	PCI	500	\$0.16	\$80.00
Backbone					
Communications Room					
24 Port Field Config Patch Panel	NKPP24P	Panduit	1	\$28.60	\$28.60
48 Port Field Config Patch Panel	NKPP48P	Panduit	4	\$42.90	\$171.60
Cat6 Jack Blue	NK688MBU	Panduit	166	\$5.27	\$874.82
Cat6 1' Patchcord Blue	MCTP6BI-6-1	Generic	250	\$1.11	\$277.50
Blank Jack Black Bag of 10	NKBMBL	Panduit	16	\$0.23	\$3.68
Consumables & Misc. Material					
Bucket of Pull String	PL-230-ATC	Accu-Tech	1	\$35.10	\$35.10
2" Cable Support Loop	TL20	Arlington	100	\$0.49	\$49.00
4' Grid Wire w/ Nail Bundled 100	388432	Hilti	1	\$43.36	\$43.36
Yellow Powder Strip box of 10 Strips	50352	Hilti	1	\$15.60	\$15.60
Firestop Bar	FSP	Nelson	4	\$23.40	\$93.60
8" Tie Wrap Clear bag of 100	T50R9C2	Hellerman	4	\$3.25	\$13.00
8" Tie Wrap Plenum bag of 100	T50R2C2UL	Hellerman	10	\$9.10	\$91.00
11.5" Tie Wrap Clear bag of 100	T50I9C2	Hellerman	4	\$6.66	\$26.64
11.5" Tie Wrap Plenum bag of 100	T50I2C2UL	Hellerman	4	\$22.10	\$88.40
11.5" Tie Wrap Black bag of 100	T50I0C2	Hellerman	1	\$6.66	\$6.66
15' Roll of Black Velcro	GT.75X1800	Hellerman	6	\$9.10	\$54.60
Electrical Tape	TARTAN1710-3M	Hellerman	10	\$1.04	\$10.40
Panduit label Tape (100 Labels)	C195XOY1C	Panduit	0.81	\$49.40	\$40.01
Cable Label Refill	514-REF	Hellerman	1.66	\$7.74	\$12.85
Misc. Material	PCI	PCI	2	\$162.50	\$325.00
				Materials:	\$18,080.01
				Labor:	\$14,637.74
				Total:	\$32,717.75



CABLING UPGRADES - CONTINUED

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ELES - Wiring closet upgrades to support 10 GB backbone, patch cables, wireless drops, racks					
<u>Horizontal</u>					
Genspeed 6 CMP Blue	7131800	General	4000	\$0.32	\$1,284.00
<u>Workstation</u>					
Cat6 Jack Blue	NK688MBU	Panduit	20	\$5.27	\$105.40
2-Port Surface Mount box Off White	NK2BXIW-A	Panduit	17	\$2.46	\$41.82
Blank Off White bag of 10	NKBMIW	Panduit	14	\$0.23	\$3.22
Cat6 Patch Cord Blue 10'	MCTP6BI-6-10	Generic	20	\$2.98	\$59.60
<u>Backbone</u>					
12 Strand OM3 Armored CMR Laser Opt	BE0121PNR-ILPA	General	750	\$2.67	\$2,002.50
1RU Enclosure accepts 3 adapter panels	FRME1	Panduit	3	\$182.00	\$546.00
SC 6 Duplex Adapter Panel Aqua OM3	FAP6WAQDSC	Panduit	4	\$84.50	\$338.00
SC 6 Duplex Adapter Panel SM	FAP6WBUDSC	Panduit	1	\$97.50	\$97.50
Blank Adapter Panel	FAPB	Panduit	6	\$4.62	\$27.72
SC OM3 Unicam Fiber Connector	95-050-41-X	Corning	48	\$15.28	\$733.44
SC SM Unicam	95-200-41	Corning	12	\$17.75	\$213.00
SC-LC SM 3M Patch Cord	0	Generic	6	\$22.10	\$132.60
SC-LC OM3 3M Patch Cord	0	Generic	24	\$16.25	\$390.00
<u>Communications Room</u>					
7'x19" 2 Post Relay Rack	EDR19FM45U	Hoffman	4	\$136.50	\$546.00
12" Wall to Rack Kit Black	E45RUBKIT	Hoffman	4	\$88.40	\$353.60
Rack Mount Grounding Bus Bar	DG19	Hoffman	4	\$55.90	\$223.60
#6 2 Hole Lug Bag of 10	DGCL61	Hoffman	1	\$42.90	\$42.90
#6 THHN Green	5K-0601-5	Accu-Tech	80	\$1.11	\$88.80
24 Port Field Config Patch Panel	NKPP24P	Panduit	2	\$28.60	\$57.20
Cat6 Jack Blue	NK688MBU	Panduit	20	\$5.27	\$105.40
Cat6 1' Patchcord Blue	MCTP6BI-6-1	Generic	454	\$1.11	\$503.94
Cat6 3' Patchcord Blue	MCTP6BI-6-3	Generic	100	\$1.50	\$150.00
Blank Jack Black Bag of 10	NKBMBL	Panduit	30	\$0.00	\$0.00
<u>Consumables & Misc. Material</u>					
Bucket of Pull String	PL-230-ATC	Accu-Tech	1	\$35.10	\$35.10
Firestop Bar	FSP	Nelson	2	\$23.40	\$46.80
8" Tie Wrap Clear bag of 100	T50R9C2	Hellerman	1	\$3.25	\$3.25
8" Tie Wrap Plenum bag of 100	T50R2C2UL	Hellerman	4	\$9.10	\$36.40
11.5" Tie Wrap Black bag of 100	T50I0C2	Hellerman	1	\$6.66	\$6.66
15' Roll of Black Velcro	GT.75X1800	Hellerman	3	\$9.10	\$27.30
Electrical Tape	TARTAN1710-3M	Hellerman	5	\$1.04	\$5.20
Panduit label Tape (100 Labels)	C195XOY1C	Panduit	0.17	\$49.40	\$8.40
Cable Label Refill	514-REF	Hellerman	0.2	\$7.74	\$1.55
Misc. Material	PCI	PCI	1	\$162.50	\$162.50
				Materials:	\$8,379.40
				Labor:	\$7,298.38
				Total:	\$15,677.78



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CABLING UPGRADES - CONTINUED

EL M&H - Wiring closet upgrades to support 10 GB backbone, patch cables, wireless drops, racks					
<u>Horizontal</u>					
Genspeed 6 CMP Blue	7131800	General	15000	\$0.32	\$4,815.00
<u>Workstation</u>					
Cat6 Jack Blue	NK688MBU	Panduit	73	\$5.27	\$384.71
2-Port Faceplate Off White w/ labels	NK2FIWY	Panduit	12	\$1.27	\$15.24
2-Port Surface Mount box Off White	NK2BXIW-A	Panduit	28	\$0.00	\$0.00
Blank Off White bag of 10	NKBMIW	Panduit	7	\$0.00	\$0.00
Cat6 Patch Cord Blue 10'	MCTP6BI-6-10	Generic	73	\$2.98	\$217.54
1.25"x8' Off White	TSR2FW-8A	Hellerman	12	\$11.70	\$140.40
Ceiling Tile Cover Off White bag of 10	TSR2FW-50	Hellerman	12	\$1.29	\$15.48
2" Deep Single Gang Box Off White	TSRFW-JB2	Hellerman	12	\$4.49	\$53.88
Fastening (Screws & Anchors)	PCI	PCI	60	\$0.16	\$9.60
<u>Backbone</u>					
12 Strand OM3 Armored CMR Laser Opt	BE0121PNR-ILPA	General	4400	\$2.67	\$11,748.00
12 Strand OM3 OSP Laser Opt	BE0123M1A-DWB	General	1800	\$1.82	\$3,276.00
12 Strand Breakout Kit	FAN-012	Coming	4	\$21.13	\$84.52
1RU Enclosure accepts 3 adapter panels	FRME1	Panduit	10	\$182.00	\$1,820.00
2RU Enclosure accepts 6 adapter panels	FRME2	Panduit	2	\$201.50	\$403.00
SC 6 Duplex Adapter Panel Aqua OM3	FAP6WAQDSC	Panduit	20	\$84.50	\$1,690.00
Blank Adapter Panel	FAPB	Panduit	22	\$4.62	\$101.64
SC OM3 Unicam Fiber Connector	95-050-41-X	Coming	240	\$15.28	\$3,667.20
SC-LC OM3 Laser OPT 3M Patch Cord	0	Generic	120	\$16.25	\$1,950.00
<u>Communications Room</u>					
7'x19" 2 Post Relay Rack	EDR19FM45U	Hoffman	5	\$136.50	\$682.50
2' Wall Mount Rack	E19SWM12U20	Hoffman	2	\$200.20	\$400.40
12" Wall to Rack Kit Black	E45RUBKIT	Hoffman	5	\$84.50	\$422.50
Rack Mount Grounding Bus Bar	DG19	Hoffman	6	\$55.90	\$335.40
#6 2 Hole Lug Bag of 10	DGCL61	Hoffman	3	\$42.90	\$128.70
#6 THHN Green	5K-0601-5	Accu-Tech	120	\$1.11	\$133.20
24 Port Field Config Patch Panel	NKPP24P	Panduit	6	\$28.60	\$171.60
Cat6 Jack Blue	NK688MBU	Panduit	73	\$5.27	\$384.71
Cat6 1' Patchcord Blue	MCTP6BI-6-1	Generic	911	\$1.11	\$1,011.21
Blank Jack Black Bag of 10	NKBMBL	Panduit	50	\$0.23	\$11.50



E-RATE SPIN NUMBER 143029877

CABLING UPGRADES - CONTINUED

EL M&H - Wiring upgrades - Continued					
Consumables & Misc. Material					
Bucket of Pull String	PL-230-ATC	Accu-Tech	1	\$35.10	\$35.10
Firestop Bar	FSP	Nelson	6	\$23.40	\$140.40
8" Tie Wrap Clear bag of 100	T50R9C2	Hellerman	5	\$3.25	\$16.25
8" Tie Wrap Plenum bag of 100	T50R2C2UL	Hellerman	5	\$9.10	\$45.50
11.5" Tie Wrap Clear bag of 100	T50I9C2	Hellerman	2	\$6.66	\$13.32
11.5" Tie Wrap Plenum bag of 100	T50I2C2UL	Hellerman	10	\$22.10	\$221.00
11.5" Tie Wrap Black bag of 100	T50I0C2	Hellerman	1	\$6.66	\$6.66
15' Roll of Black Velcro	GT.75X1800	Hellerman	10	\$9.10	\$91.00
Electrical Tape	TARTAN1710-3M	Hellerman	10	\$1.04	\$10.40
Panduit label Tape (100 Labels)	C195XOY1C	Panduit	0.4	\$49.40	\$19.76
Cable Label Refill	514-REF	Hellerman	0.73	\$7.74	\$5.65
Misc. Material	PCI	PCI	4	\$162.50	\$650.00
				Materials:	\$35,328.97
				Labor:	\$24,942.94
				Total:	\$60,271.91



E-RATE SPIN NUMBER 143029877

CABLING UPGRADES - CONTINUED

ELPS- Wiring closet upgrades to support 10 GB backbone, patch cables, wireless drops, racks					
Horizontal					
Genspeed 6 CMP Blue	7131800	General	3000	\$0.32	\$963.00
Workstation					
Cat6 Jack Blue	NK688MBU	Panduit	14	\$5.27	\$73.78
2-Port Surface Mount box Off White	NK2BXIW-A	Panduit	8	\$2.46	\$19.68
Blank Off White bag of 10	NKBMIW	Panduit	2	\$0.23	\$0.46
Cat6 Patch Cord Blue 10'	MCTP6BI-6-10	Generic	14	\$2.98	\$41.72
Backbone					
12 Strand OM3 Armored CMR Laser Opt	BE0121PNR-ILPA	General	1000	\$2.67	\$2,670.00
12 Strand SM OSP	AP0123M1A-DWB	General	2000	\$0.38	\$760.00
12 Strand Breakout Kit	FAN-012	Corning	2	\$21.13	\$42.26
1RU Enclosure accepts 3 adapter panels	FRME1	Panduit	3	\$175.50	\$526.50
2RU Enclosure accepts 6 adapter panels	FRME2	Panduit	1	\$201.50	\$201.50
SC 6 Duplex Adapter Panel Aqua OM3	FAP6WAQDSC	Panduit	3	\$84.50	\$253.50
SC 6 Duplex Adapter Panel SM	FAP6WBUDSC	Panduit	1	\$97.50	\$97.50
Blank Adapter Panel	FAPB	Panduit	8	\$4.62	\$36.96
SC OM3 Unicam Fiber Connector	95-050-41-X	Corning	90	\$15.28	\$1,375.20
SC SM Unicam	95-200-41	Corning	12	\$17.75	\$213.00
SC-LC SM 3M Patch Cord	0	Generic	6	\$22.10	\$132.60
SC-LC OM3 Laser OPT 3M Patch Cord	0	Generic	36	\$16.25	\$585.00
Communications Room					
7'x19" 2 Post Relay Rack	EDR19FM45U	Hoffman	4	\$136.50	\$546.00
12" Wall to Rack Kit Black	E45RUBKIT	Hoffman	4	\$88.40	\$353.60
Rack Mount Grounding Bus Bar	DG19	Hoffman	4	\$55.90	\$223.60
#6 2 Hole Lug Bag of 10	DGCL61	Hoffman	2	\$42.90	\$85.80
#6 THHN Green	5K-0601-5	Accu-Tech	80	\$1.11	\$88.80
24 Port Field Config Patch Panel	NKPP24P	Panduit	4	\$28.60	\$114.40
Cat6 Jack Blue	NK688MBU	Panduit	14	\$5.27	\$73.78
Cat6 1' Patchcord Blue	MCTP6BI-6-1	Generic	534	\$1.11	\$592.74
Cat6 3' Patchcord Blue	MCTP6BI-6-3	Generic	24	\$1.50	\$36.00
Blank Jack Black Bag of 10	NKBMBL	Panduit	50	\$0.23	\$11.50



E-RATE SPIN NUMBER 143029877

CABLING UPGRADES - CONTINUED

ELPS- Wiring upgrades - Continued					
Consumables & Misc. Material					
Bucket of Pull String	PL-230-ATC	Accu-Tech	1	\$35.10	\$35.10
Firestop Bar	FSP	Nelson	2	\$23.40	\$46.80
8" Tie Wrap Clear bag of 100	T50R9C2	Hellerman	1	\$3.25	\$3.25
8" Tie Wrap Plenum bag of 100	T50R2C2UL	Hellerman	4	\$9.10	\$36.40
11.5" Tie Wrap Black bag of 100	T50I0C2	Hellerman	1	\$6.66	\$6.66
15' Roll of Black Velcro	GT.75X1800	Hellerman	6	\$9.10	\$54.60
Electrical Tape	TARTAN1710-3M	Hellerman	4	\$1.04	\$4.16
Panduit label Tape (100 Labels)	C195XOY1C	Panduit	0.08	\$49.40	\$3.95
Cable Label Refill	514-REF	Hellerman	0.14	\$7.74	\$1.08
Misc. Material	PCI	PCI	1.5	\$162.50	\$243.75
				Materials:	\$10,554.63
				Labor:	\$12,590.58
				Total:	\$23,145.21



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SWLE - Wiring closet upgrades to support 10 GB backbone, patch cables, wireless drops, racks					
Horizontal					
Genspeed 6 CMP Blue	7131800	General	5000	\$0.32	\$1,605.00
Workstation					
Cat6 Jack Blue	NK688MBU	Panduit	22	\$5.27	\$115.94
2-Port Surface Mount box Off White	NK2BXIW-A	Panduit	16	\$2.46	\$39.36
Blank Off White bag of 10	NKBMIW	Panduit	10	\$0.23	\$2.30
Cat6 Patch Cord Blue 10'	MCTP6BI-6-10	Generic	22	\$2.98	\$65.56
Backbone					
12 Strand OM3 Armored CMR Laser Opt	BE0121PNR-ILPA	General	1415	\$2.67	\$3,778.05
1RU Enclosure accepts 3 adapter panels	FRME1	Panduit	4	\$182.00	\$728.00
SC 6 Duplex Adapter Panel Aqua OM3	FAP6WAQDSC	Panduit	6	\$84.50	\$507.00
Blank Adapter Panel	FAPB	Panduit	6	\$4.62	\$27.72
SC OM3 Unicam Fiber Connector	95-050-41-X	Coming	72	\$15.28	\$1,100.16
SC-LC OM3 Laser OPT 3M Patch Cord	0	Generic	36	\$16.25	\$585.00
Communications Room					
7'x19" 2 Post Relay Rack	EDR19FM45U	Hoffman	4	\$136.50	\$546.00
12" Wall to Rack Kit Black	E45RUBKIT	Hoffman	4	\$88.40	\$353.60
Rack Mount Grounding Bus Bar	DG19	Hoffman	4	\$55.90	\$223.60
#6 2 Hole Lug Bag of 10	DGCL61	Hoffman	2	\$42.90	\$85.80
#6 THHN Green	5K-0601-5	Accu-Tech	80	\$1.11	\$88.80
24 Port Field Config Patch Panel	NKPP24P	Panduit	4	\$28.60	\$114.40
Cat6 Jack Blue	NK688MBU	Panduit	22	\$5.27	\$115.94
Cat6 1' Patchcord Blue	MCTP6BI-6-1	Generic	692	\$1.11	\$768.12
Cat6 3' Patchcord Blue	MCTP6BI-6-3	Generic	100	\$1.50	\$150.00
Blank Jack Black Bag of 10	NKBMBL	Panduit	30	\$0.23	\$6.90
Consumables & Misc. Material					
Bucket of Pull String	PL-230-ATC	Accu-Tech	1	\$35.10	\$35.10
Firestop Bar	FSP	Nelson	2	\$23.40	\$46.80
8" Tie Wrap Clear bag of 100	T50R9C2	Hellerman	1	\$3.25	\$3.25
8" Tie Wrap Plenum bag of 100	T50R2C2UL	Hellerman	5	\$9.10	\$45.50
11.5" Tie Wrap Plenum bag of 100	T50I2C2UL	Hellerman	1	\$22.10	\$22.10
11.5" Tie Wrap Black bag of 100	T50I0C2	Hellerman	1	\$6.66	\$6.66
15' Roll of Black Velcro	GT.75X1800	Hellerman	4	\$9.10	\$36.40
Electrical Tape	TARTAN1710-3M	Hellerman	5	\$1.04	\$5.20
Panduit label Tape (100 Labels)	C195XOY1C	Panduit	0.16	\$49.40	\$7.90
Cable Label Refill	514-REF	Hellerman	0.22	\$7.74	\$1.70
Misc. Material	PCI	PCI	2	\$162.50	\$325.00
				Materials:	\$11,542.86
				Labor:	\$9,360.48
				Total:	\$20,903.34



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CABLING UPGRADES - SUMMARY

LCBOE Cabling Summary	
BOE	\$ 5,603.86
Crossroads	\$ 32,717.75
ELES	\$ 15,677.78
EL MS&HS	\$ 60,271.91
ELPS	\$ 23,145.21
SWLES	\$ 20,903.34
Total:	\$ 158,319.85



E-RATE SPIN NUMBER 143029877

NETWORK ELECTRONICS - BOE

BOE						
Line #	Part Number	Description	QTY	Sale Price	Ext. Sale Price	Subtotals
BOE-MDF						
	J9538A	HP 8-port 10GbE SFP+ v2 zl Module	1	\$2,611.66	\$2,611.66	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	2	\$785.32	\$1,570.65	
	ASA5520-BUN-K9	ASA 5520 Appliance with SW, HA, 4GE+1FE, 3DES/AES	1	\$4,350.64	\$4,350.64	
	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m	1	\$0.00	\$0.00	
	Included: SF-ASA-8 2-K8	ASA 5500 Series Software v8 2	1	\$0.00	\$0.00	
	Included: ASA5520-VPN-PL	ASA 5520 VPN Plus 750 IPsec User License (7.0 Only)	1	\$0.00	\$0.00	
	Included: ASA5500-ENCR-K9	ASA 5500 Strong Encryption License (3DES/AES)	1	\$0.00	\$0.00	
	Included: ASA-VPN-CLNT-K9	Cisco VPN Client Software (Windows, Solaris, Linux, Mac)	1	\$0.00	\$0.00	
	Included: SSM-BLANK	ASA/IPS SSM Slot Cover	1	\$0.00	\$0.00	
	Included: ASA-180W-PWR-AC	ASA 180W AC Power Supply	1	\$0.00	\$0.00	
	Included: ASA-ANYCONN-CSD-K9	ASA 5500 AnyConnect Client + Cisco Security Desktop Software	1	\$0.00	\$0.00	
	SMT2200RM2U	APC Smart-UPS 2200VA RM 2U LCD 120V	2	\$1,007.19	\$2,014.39	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	
BOE-IDF1-TechOffice						
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.50	\$3,003.50	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	1	\$785.32	\$785.32	
	SMT750RM2U	APC Smart-ups 750VA LCD RM 2U 120V	1	\$387.29	\$387.29	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	
BOE-IDF2-Lab						
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	1	\$785.32	\$785.32	
	SMT750RM2U	APC Smart-ups 750VA LCD RM 2U 120V	1	\$387.29	\$387.29	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	
PCI Services						
	PCI-ENG-SVC	Installation & Configuration			\$2,500.00	
BOE						\$22,616.37



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NETWORK ELECTRONICS – SWLES

Line #	Part Number	Description	QTY	Sale Price	Ext. Sale Price	Subtotals
SWL						
SWL-MDF						
	J9643A	HP 5412 zl Switch with Premium Software	1	\$2,502.64	\$2,502.64	
	J9306A	HP 1500W PoE+ zl Power Supply	2	\$598.04	\$1,196.09	
	J9534A	HP 24-port Gig-T PoE+ v2 zl Module	9	\$1,958.47	\$17,626.21	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	13	\$785.32	\$10,209.20	
	J9538A	HP 8-port 10GbE SFP+ v2 zl Module	2	\$2,611.47	\$5,222.94	
	SMT2200RM2U	APC Smart-UPS 2200VA RM 2U LCD 120V	2	\$1,007.19	\$2,014.39	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	
SWL-IDF1						
	J9576A	HP 3800-48G-4SFP+ Switch	3	\$4,037.20	\$12,111.59	
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62	
	J9577A	HP 3800 4-port Stacking Module	4	\$761.29	\$3,045.18	
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80	
	J9579A	HP 3800 3m Stacking Cable	1	\$238.89	\$238.89	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	4	\$785.32	\$3,141.29	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
SWL-IDF2						
	J9576A	HP 3800-48G-4SFP+ Switch	3	\$4,037.20	\$12,111.59	
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62	
	J9577A	HP 3800 4-port Stacking Module	4	\$761.29	\$3,045.18	
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80	
	J9579A	HP 3800 3m Stacking Cable	1	\$238.89	\$238.89	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	4	\$785.32	\$3,141.29	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
SWL-IDF3						
	J9576A	HP 3800-48G-4SFP+ Switch	4	\$4,037.20	\$16,148.79	
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62	
	J9577A	HP 3800 4-port Stacking Module	5	\$761.29	\$3,806.47	
	J9665A	HP 3800 1m Stacking Cable	4	\$157.27	\$629.06	
	J9579A	HP 3800 3m Stacking Cable	1	\$238.89	\$238.89	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	5	\$785.32	\$3,926.62	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	2	\$660.00	\$1,320.00	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	
PCI Services						
	PCI-ENG-SVC	Installation & Configuration			\$3,750.00	
SWL						\$123,379.67



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NETWORK ELECTRONICS – CROSSROADS

Crossroads						
Line #	Part Number	Description	QTY	Sale Price	Ext. Sale Price	Subtotals
Crossroads-MDF						
	J9642A	HP 5406 zl Switch with Premium Software	1	\$1,316.35	\$1,316.35	
	J9306A	HP 1500W PoE+ zl Power Supply	2	\$598.04	\$1,196.09	
	J9534A	HP 24-port Gig-T PoE+ v2 zl Module	5	\$1,958.47	\$9,792.34	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	2	\$785.32	\$1,570.65	
	J9538A	HP 8-port 10GbE SFP+ v2 zl Module	1	\$2,611.47	\$2,611.47	
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27	
	SMT2200RM2U	APC Smart-UPS 2200VA RM 2U LCD 120V	2	\$1,007.19	\$2,014.39	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	
PCI Services						
	PCI-ENG-SVC	Installation & Configuration			\$625.00	
Crossroads						\$22,535.23



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NETWORK ELECTRONICS – EL MS&HS

ELH/ELM						
Line #	Part Number	Description	QTY	Sale Price	Ext. Sale Price	Subtotals
ELH/ELM-MDF						
	J9643A	HP 5412 zl Switch with Premium Software	1	\$2,502.64	\$2,502.64	
	J9306A	HP 1500W PoE+ zl Power Supply	2	\$598.04	\$1,196.09	
	J9534A	HP 24-port Gig-T PoE+ v2 zl Module	4	\$1,958.47	\$7,833.87	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	27	\$785.32	\$21,203.72	
	J9538A	HP 8-port 10GbE SFP+ v2 zl Module	4	\$2,611.47	\$10,445.89	
	SMT2200RM2U	APC Smart-UPS 2200VA RM 2U LCD 120V	2	\$1,007.19	\$2,014.39	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	
ELH-IDF1						
	J9576A	HP 3800-48G-4SFP+ Switch	3	\$4,037.20	\$12,111.59	
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62	
	J9577A	HP 3800 4-port Stacking Module	4	\$761.29	\$3,045.18	
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80	
	J9579A	HP 3800 3m Stacking Cable	1	\$238.89	\$238.89	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	4	\$785.32	\$3,141.29	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
ELH-IDF2						
	J9576A	HP 3800-48G-4SFP+ Switch	2	\$4,037.20	\$8,074.39	
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62	
	J9577A	HP 3800 4-port Stacking Module	3	\$761.29	\$2,283.88	
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	3	\$785.32	\$2,355.97	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
ELH-IDF3						
	J9576A	HP 3800-48G-4SFP+ Switch	3	\$4,037.20	\$12,111.59	
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27	
	J9577A	HP 3800 4-port Stacking Module	4	\$761.29	\$3,045.18	
	J9665A	HP 3800 1m Stacking Cable	4	\$157.27	\$629.06	
	J9579A	HP 3800 3m Stacking Cable	1	\$238.89	\$238.89	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	4	\$785.32	\$3,141.29	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
ELH-IDF4-New Addition						
	J9576A	HP 3800-48G-4SFP+ Switch	2	\$4,037.20	\$8,074.39	
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27	
	J9577A	HP 3800 4-port Stacking Module	3	\$761.29	\$2,283.88	
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	3	\$785.32	\$2,355.97	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
ELH-IDF6						
	J9576A	HP 3800-48G-4SFP+ Switch	1	\$4,037.20	\$4,037.20	
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62	
	J9577A	HP 3800 4-port Stacking Module	2	\$761.29	\$1,522.59	
	J9665A	HP 3800 1m Stacking Cable	1	\$157.27	\$157.27	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	2	\$785.32	\$1,570.65	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
ELH-IDF-Gym						
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	1	\$785.32	\$785.32	
	SMT750RM2U	APC Smart-ups 750VA LCD RM 2U 120V	1	\$387.29	\$387.29	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	



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NETWORK ELECTRONICS – EL MS&HS CONTINUED

ELH-IDF-Fieldhouse					
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27
	J9150A	HP X132 10G SFP+ LC SR Transceiver	1	\$785.32	\$785.32
	SMT750RM2U	APC Smart-ups 750VA LCD RM 2U 120V	1	\$387.29	\$387.29
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68
ELM-IDF1					
	J9576A	HP 3800-48G-4SFP+ Switch	3	\$4,037.20	\$12,111.59
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62
	J9577A	HP 3800 4-port Stacking Module	4	\$761.29	\$3,045.18
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80
	J9579A	HP 3800 3m Stacking Cable	1	\$238.89	\$238.89
	J9150A	HP X132 10G SFP+ LC SR Transceiver	4	\$785.32	\$3,141.29
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84
ELM-IDF2					
	J9576A	HP 3800-48G-4SFP+ Switch	3	\$4,037.20	\$12,111.59
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62
	J9577A	HP 3800 4-port Stacking Module	4	\$761.29	\$3,045.18
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80
	J9579A	HP 3800 3m Stacking Cable	1	\$238.89	\$238.89
	J9150A	HP X132 10G SFP+ LC SR Transceiver	4	\$785.32	\$3,141.29
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84
ELM-IDF-Gym					
	J9576A	HP 3800-48G-4SFP+ Switch	1	\$4,037.20	\$4,037.20
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27
	J9577A	HP 3800 4-port Stacking Module	2	\$761.29	\$1,522.59
	J9665A	HP 3800 1m Stacking Cable	1	\$157.27	\$157.27
	J9150A	HP X132 10G SFP+ LC SR Transceiver	2	\$785.32	\$1,570.65
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84
PCI Services					
	PCI-ENG-SVC	Installation & Configuration			\$5,000.00
ELH/ELM					\$216,540.75



E-RATE SPIN NUMBER 143029877

NETWORK ELECTRONICS – ELES

ELE							
Line #	Part Number	Description	QTY	Sale Price	Ext. Sale Price	Subtotals	
ELE-MDF							
	J9643A	HP 5412 zl Switch with Premium Software	1	\$2,502.64	\$2,502.64		
	J9306A	HP 1500W PoE+ zl Power Supply	2	\$598.04	\$1,196.09		
	J9534A	HP 24-port Gig-T PoE+ v2 zl Module	10	\$1,958.47	\$19,584.68		
	J9150A	HP X132 10G SFP+ LC SR Transceiver	9	\$785.32	\$7,067.91		
	J9151A	HP X132 10G SFP+ LC LR Transceiver	1	\$1,912.38	\$1,912.38		
	J9538A	HP 8-port 10GbE SFP+ v2 zl Module	2	\$2,611.47	\$5,222.94		
	J9576A	HP 3800-48G-4SFP+ Switch	1	\$4,037.20	\$4,037.20		
	SMT2200RM2U	APC Smart-UPS 2200VA RM 2U LCD 120V	2	\$1,007.19	\$2,014.39		
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68		
ELE-IDF1							
	J9576A	HP 3800-48G-4SFP+ Switch	3	\$4,037.20	\$12,111.59		
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27		
	J9577A	HP 3800 4-port Stacking Module	4	\$761.29	\$3,045.18		
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80		
	J9579A	HP 3800 3m Stacking Cable	1	\$238.89	\$238.89		
	J9150A	HP X132 10G SFP+ LC SR Transceiver	4	\$785.32	\$3,141.29		
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00		
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84		
ELE-IDF2							
	J9576A	HP 3800-48G-4SFP+ Switch	2	\$4,037.20	\$8,074.39		
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27		
	J9577A	HP 3800 4-port Stacking Module	3	\$761.29	\$2,283.88		
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80		
	J9150A	HP X132 10G SFP+ LC SR Transceiver	3	\$785.32	\$2,355.97		
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00		
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84		
PCI Services							
	PCI-ENG-SVC	Installation & Configuration			\$2,500.00		
ELE							\$86,370.91



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NETWORK ELECTRONICS – ELPS

ELP						
Line #	Part Number	Description	QTY	Sale Price	Ext. Sale Price	Subtotals
ELP-MDF						
	J9643A	HP 5412 zl Switch with Premium Software	1	\$2,502.64	\$2,502.64	
	J9306A	HP 1500W PoE+ zl Power Supply	2	\$598.04	\$1,196.09	
	J9534A	HP 24-port Gig-T PoE+ v2 zl Module	5	\$1,958.47	\$9,792.34	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	9	\$826.59	\$7,439.35	
	J9151A	HP X132 10G SFP+ LC LR Transceiver	1	\$1,912.38	\$1,912.38	
	J9538A	HP 8-port 10GbE SFP+ v2 zl Module	2	\$2,611.47	\$5,222.94	
	SMT2200RM2U	APC Smart-UPS 2200VA RM 2U LCD 120V	2	\$1,007.19	\$2,014.39	
	AP9630	UPS Network Management Card 2	2	\$202.84	\$405.68	
ELP-IDF1						
	J9576A	HP 3800-48G-4SFP+ Switch	2	\$4,037.20	\$8,074.39	
	J9573A	HP 3800-24G-PoE+-2SFP+ Switch	1	\$3,003.27	\$3,003.27	
	J9577A	HP 3800 4-port Stacking Module	3	\$761.29	\$2,283.88	
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	3	\$785.32	\$2,355.97	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
ELP-IDF2						
	J9576A	HP 3800-48G-4SFP+ Switch	2	\$4,037.20	\$8,074.39	
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62	
	J9577A	HP 3800 4-port Stacking Module	3	\$761.29	\$2,283.88	
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	3	\$785.32	\$2,355.97	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
ELP-IDF3						
	J9576A	HP 3800-48G-4SFP+ Switch	2	\$4,037.20	\$8,074.39	
	J9574A	HP 3800-48G-PoE+-4SFP+ Switch	1	\$4,744.62	\$4,744.62	
	J9577A	HP 3800 4-port Stacking Module	3	\$761.29	\$2,283.88	
	J9665A	HP 3800 1m Stacking Cable	3	\$157.27	\$471.80	
	J9150A	HP X132 10G SFP+ LC SR Transceiver	3	\$785.32	\$2,355.97	
	SMT1500RM2U	APC Smart-UPS 1500VA LCD RM 2U 120V	1	\$660.00	\$660.00	
	AP9630	UPS Network Management Card 2	1	\$202.84	\$202.84	
PCI Services						
	PCI-ENG-SVC	Installation & Configuration			\$5,750.99	
ELP						\$90,875.95
Grand Total						\$591,415.00



E-RATE SPIN NUMBER 143029877

11. RECAP OF PRICING

A. Cabling Upgrades	\$ 158,319.85
B. Switching, UPS, and Firewall	\$ 591,415.00
Total:	\$ 749,734.85



E-RATE SPIN NUMBER 143029877



CERTIFICATE OF LIABILITY INSURANCE

OP ID: AD

DATE (MM/DD/YYYY)
01/13/12

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Tidwell & Hilburn Insurance P O Box 1796 Macon, GA 31202-1796 Coleman "Cole" Tidwell Jr. AAI	478-743-9318 478-742-5688	CONTACT NAME: Cole Tidwell, Jr PHONE (A/C No. Ext.): 478-743-9318 FAX (A/C No.): 478-742-5688 E-MAIL ADDRESS: colet@th-ins.com PRODUCER CUSTOMER ID #: PROGR-1
INSURED Progressive Communications Inc Oconee Area Properties ANS Connect Inc 100 Industrial Park Rd Milledgeville, GA 31061	INSURER(S) AFFORDING COVERAGE INSURER A: Travelers Indemnity Co of CT INSURER B: Travelers Prop Cas Co of Amer INSURER C: INSURER D: INSURER E: INSURER F:	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATION MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADOL INSR	WBR INSR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJ <input type="checkbox"/> LOC			6304655M444TCT11	06/05/11	06/05/12	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Emp Ben. \$ 1,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			BA4655M44411TIL	06/05/11	06/05/12	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10,000			HSBCUP4655M44411	06/05/11	06/05/12	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes describe under DESCRIPTION OF OPERATIONS below		Y/N N/A	HJUB4655M44411	06/05/11	06/05/12	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E L EACH ACCIDENT \$ 500,000 E L DISEASE - EA EMPLOYEE \$ 500,000 E L DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER Clarke County Schools 240 Mitchell Bridge Road Athens, GA 30606	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE Coleman "Cole" Tidwell Jr. AAI
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