



PHOENIX

TUCSON

Project Name:
CATALINA FOOTHILLS SCHOOL DISTRICT
RFQ: STRUCTURED CABLING CFHS

AZ State Contract # CTR062453
CTS State Vendor # 9000000093
CTS SPIN # 143049477

Presented To:



Attention: LYNN PENCE

Scope of Work and Proposal

Due Date: Mar 09,2026

Respectfully Submitted By:

Joe Manuel

520-954-2489

jmanuel@ctscabbling.com

Joe.manuel@apicmsi.com

Corporate Technology Solutions, LLC

4585 S Palo Verde Rd. #405

Tucson, AZ 85714

O: (520) 790-7100

www.ctscabbling.com

Structured Cabling • Fiber Optic • Access Control • Intrusion Detection • Video Surveillance • Audio/Video • Intercom/Paging

CTS Executive Summary

On behalf of everyone here at CTS, we would like to thank you for the opportunity to present you with this Proposal in response to Request for Quote (RFQ) Catalina Foothills School District (CFSD) to Provide Pricing for Structured Cabling Installation Services.

Corporate Technology Solutions (CTS) has been providing high-end Structured Cabling Systems since 1998. When CTS was founded by Brian Rhynas, RCDD, in 1998 he set out to be the best in class in our industry. His goal was to provide high quality Structured Cabling Systems for his clients at a fair cost. In 2002, Scott Tubbs joined Mr. Rhynas as a partner and together they grew CTS at a compounded annual growth rate of 32.5% for the next seven years. With their leadership and a team of highly trained managers and field personnel, CTS now has offices in Tempe and Tucson Arizona with more than 65 employees' company wide.

Our corporate headquarters is located at 1971 E. 5th Street, Suite 111, Tempe, Arizona, but we will be providing manpower, supervision, and support for the Catalina Foothills High School RFQ High from our Tucson office located at 4585 S Palo Verde Rd. #405, Tucson, Arizona 85714. This office is headed by Joe Manuel, Southern Arizona Regional Manager. The Tucson office has (2) Estimator (2) Project Managers, (1) Project Superintendents and (15) Field Technicians. Our combined personnel workforce in Arizona totals over (70) working professionals that may be called on to meet the needs of this contract.

Our partnerships with major suppliers (Graybar Electric, Anixter, Wesco, and Communications Supply Corporation) allow us to provide the materials needed for projects in a timely manner. In addition, CTS has also developed our credit capacity over the years with the suppliers to ensure that CTS can finance projects of any size. We also maintain a warehouse space in our Tucson facility allowing us to keep a stock of commonly used material readily available for upcoming projects.

Over the years that CTS has been installing Structured Cabling Systems, we have focused on four major vertical markets, Government, Education, Healthcare, and Commercial. We have worked with clients in the Education segment of the market ranging from K-12 to universities. We have successfully completed projects at many educational institutions. These include multiple projects at Northern Arizona University, Maricopa County Community College, University of Arizona, GCU, Catalina Foothills School District, Gilbert Public Schools, Glendale Union High School District, Scottsdale Unified School District, Kingman Unified School District, and Amphitheater Public Schools, to name a few.

As you will find in the included Customer References, we have long-standing relationships with our clients. We believe this is largely due to our attention to the needs of our clients, and the fact that the level of quality we provide is a top priority. The size and scope of the installations we have performed for our K-12 clients varies greatly from adding a single Category 6/6A cable to an existing facility, to large scale retrofit and new construction projects that total more than 320,000 feet of Category 6 cable, more than 1,600 jacks, and the new equipment support hardware and copper and fiber optic backbone for multiple IDFs, as well as installations as part of the construction of new facilities.

If awarded a contract with the Catalina Foothills School District, CTS will provide the labor and material to install the Structured Cabling Systems as directed by the RFQ. CTS understands that the scope of work at any location may vary from adding one new Category 6 cable to installing the complete Structured Cabling Systems. Any installation of cable will include termination, labeling and testing, and any individual cable support (J-hooks) that might be needed. All installations will comply with the applicable codes and standards pertaining to the specifics of the installation.

We are very excited to have the opportunity to develop a stronger working relationship with C.F.S.D, and to aid with the Structured Cabling Systems installations as described in this Request for Quote. If you have any questions regarding this proposal please contact Joe Manuel, at (520) 954-2489. Again, thank you for the opportunity and we look forward to working with the Catalina Foothills School District.

2.1 Design Standards and Specifications

The following is a list of Standards and Methodologies which will be followed where applicable to this project. This project shall follow all manufacturers' requirements and be in accordance with NFPA-70 (National Electrical Code®), state, local and county codes, and particularly the following standards:

Standards

- TIA/EIA-568-A-5 – Commercial Building Telecommunications Cabling Standard
- TIA/EIA-569-A – Commercial Building Standard for Telecommunications Pathways and Spaces
- TIA/EIA-606 – The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
- TIA/EIA-607 – Commercial Building Grounding and Bonding Requirements for Telecommunications
- TIA/EIA TSB-67 – Transmission Performance Specifications for Field Testing of Unshielded Twisted-Pair Cabling Systems
- TIA/EIA TSB-75 – Additional Horizontal Cabling Practices for Open Offices
- TIA/EIA TSB-95 – Additional Transmission Performance Specifications for 4-Pair 100-ohm Category 6 Cabling
- EIA SP 4195 Proposed Addendum #5 to TIA/EIA-568-A Additional Transmission Performance Specifications for 4-Pair 100 Ohm Enhanced Category 6 Cabling
- ISO/IEC 11801 – Generic Cabling for Customer Premises

Methodologies

The cabling installation methodologies will be in accordance with the most recent edition of the following BICSI® publications:

- BICSI – Telecommunications Distribution Methods Manual
- BICSI – Telecommunications Cabling Installation Manual
- BICSI – Customer-Owned Outside Plant Design Manual

2.2 Demonstration of Ability

2.2.1 Contractor Qualifications

2.2.1.1 CTS has held a valid Arizona L-67 license since 1998.

2.2.1.2 CTS employs more than (65) Field Employees in Arizona between our Tempe and Tucson offices who could be called on, if needed, to work on projects at C.F.S.D.

2.2.1.3 The CTS Tucson office employs (2) Estimator, (2) Project managers, (1) Project Superintendents and (15) Field Technicians under the supervision of the Regional Manager. The estimator and the Regional Manager will be available for site inspections as needed on projects that require that level of supervision.

2.2.1.3.1 The team that will be dedicated to performing work at C.F.S.D will consist of (2) to (4) Technicians, depending on the size of the project, under the supervision of our Project Superintendent, Rafael Landeros. The entire team will be under the supervision of our Project Manager/ SE Arizona Operations Manager Joe Manuel.

2.3 Prior Experience

CTS has performed Many different kinds of request for C.F.S.D from 2012 till present, from small projects, Surveillance installs to the Adds moves and changes. The team that has been dedicated to C.F.S.D for the last 14 years will still be a part of the management of projects, field supervision and installation.

2.3.1.1 Catalina Foothills School District, RFQ2025 Ventana Vista Elementary, Esperero Canyon Middle school and Canyon View Elementary. Campus wide structured cabling upgrade, consisting of Horizontal Cat6/ 6A and fiber optic backbone cabling between (26) MDF/IDF's, and horizontal cabling to more than (561) Cat6 Drops and 97) Cat6A drops. Performed 2025 under contract with Catalina Foothills School District. Value \$323,388.00.

Catalina Foothills School District, RFQ2024 Manzanita Elementary, Orange Grove Middle school and Sunrise Elementary. Campus wide structured cabling upgrade, consisting of Horizontal Cat6/ 6A and fiber optic backbone cabling between (35) MDF/IDF's, and horizontal cabling to more than (505) Cat6 Drops and (155) Cat6A drops. Performed 2024 under contract with Catalina Foothills School District. Value \$321,001.93

2.3.2 List of projects of similar scope/nature performed for other clients.

2.3.2.1 JTED @ the Bridges Phase #1 Backbone and horizontal cabling of a new two-story building on the new bridges Site, with copper and fiber backbone connection from (3) TRs to MDF, installation of TR support hardware, and (400) Category 6 cables to (200) locations. Performed in 2019 under contract with Pima JTED. Phase #1 Value \$59,466.46.

2.3.2.2 JTED The Bridges Phase #2 Backbone and horizontal cabling of a new two-story building on the new bridges Site, with copper and fiber backbone connection from (3) TRs to MDF, installation of TR support hardware, and (270) Category 6 cables to (185) locations. Performed in 2024 under contract with Pima JTED. Phase #2 Value \$134,509.35

2.3.2.3 Amphitheater School District: CTS performs move, add, change work for the Catalina Foothills School District, ranging from the installation of a single Category 6 cable to (48) Category 6 cables, and copper and fiber optic backbone cabling. These projects are typically quick turn-around in nature and require our immediate attention. In most cases, CTS has completed the project in less than a week from the Notice to Proceed, including arranging scheduling with the occupants of the facility or area that we have been assigned to perform cabling in. CTS has been performing this type of work for Amphitheater School District regularly since 2011. Value Varies.

2.3.2.4 Amphitheater School District Canyon Del Oro High School IT Upgrade. Campus wide structured cabling upgrade, consisting of Telecommunications Room support hardware installation, copper and fiber optic backbone cabling between (19) Telecommunications Rooms (TRs), and horizontal cabling to more than (1500) Telecommunications Outlets (TOs). Performed 2012 under contract with Lloyd General Contracting. Value \$779,200.00

2.3.2.5 Catalina Foothills School District. Cat6 Cabling for a district wide Surveillance Projects. Surveillance system ranged from 1 to 30 cameras depending on Each site's needs. Verkada Cameras installed in multiple Buildings inside and out at All sites and Admin. Performed in 2019 to Present under state contract with Catalina Foothills School District.

2.4 Single Point of Contact.

2.4.1 Our Primary Point of Contact for this contract will be Joe Manuel. As the Regional Manager for the Southern Arizona Office, Mr. Manuel has the authority to speak for CTS in most business and contractual matters. Mr. Manuel can be reached by phone at (520) 954-2489 and by email at Jmanuel@ctscabbling.com

2.4.2 Our Secondary Point of Contact for this contract will be Robert Bryant. In the absence of Joe Manuel, Mr. Bryant has the authority to speak for CTS in most business and contractual matters. Mr. Bryant can be reached by phone at (520) 790-7100 and by email at rbryant@ctscabbling.com

2.5 Warranty Information

2.5.1 CTS Standard Warranty Information

- In accordance with **the RFQ**, CTS will warrant that the goods furnished will conform to the specifications, drawings, and descriptions listed in the RFQ, CTS shall provide a 2-year labor warranty on all installed product(s).

2.6 Manufacture Extended Warranty Information

- CTS is a Certified Installer for Berk-Tek/ Leviton. This allows us to provide you with an extended applications and assurance warranty on the horizontal cabling and Fiber optics, and any other Leviton recognized components for 25 years.

2.7 References.

- 2.7.1 Amphitheater School District, Raul Bejarano, Director of Technology
Phone: (520) 696-5192, Email: rbejarano@amphi.com (14 Year of Services)
- 2.7.2 Catalina Foothills School District, Lynn Pence, Director of Educational Technology
Phone: (520) 209-7516, Email: lpence@cfsd16.org (14 year of Services)
- 2.7.3 Pima JTED, Catalina Castillo, Director of Technology Pima JTED
Phone: (520) 209-1836, Email: ccastillo@pimajted.org (9 year of Services)

SCOPE OF WORK:

Location	Number of MDF/IDF	Number of CAT6A Drops	Number of CAT6 Drops	Estimated Length of Fiber (ft.)
Catalina Foothills High School	1 MDF/24 IDFs	168	632*	25,000

*the 632 CAT6 cable drops include those in administrative locations and common areas.

Low Voltage Cabling Specifications:

The prospective vendor will provide the cost for 800 data drops. Refer to the Table above for the number of drops per location. The average length of each data drop is 280 feet. Each data drop will meet the following specifications:

Description	Print #	Print Date	TC Room	Floor	Qty (outlets)	Outlet Data Cables	Outlet WAP Cables	Outlet CATV Cables	Total Data Cables	Total WAP Cables
WAP CABLING = CAT6A Plenum GREEN					168		1		0	168
PA CABLING = CAT6 1 BLUE EACH - YELLOW JACK					168	1			168	0
STATION CABLES = 2 CAT6 EACH = BLUE/BLUE					232	2			464	0
					568			Totals	632	168

1. The awarded vendor will conduct a complete assessment of the campus prior to commencement of the structured cabling project. The purpose of the assessment is to determine with the district the exact number and location of all data drops. Any cost for this assessment must be identified in the quote.
2. The district will standardize (4) cable drops per classroom and administrative office and (8) cable drops for common areas.
3. The required low voltage cabling specification for existing and future Wireless Access Point locations are Category 6a. All other locations will be Category 6. All cable jackets must be Plenum rated.
4. All data drops will be homeruns from the faceplate to a new patch panel in the nearest IDF. Include (23) 12-port Category 6a patch panels and (23) 48-port Category 6 patch panels. The district prefers modular patch panels that can be color coded for easier troubleshooting.
5. Provide (1) 1ft. patch cable and (1) 3ft. patch cable for all cable drops, Category 6a patch cables for CAT6a cable drops and Category 6 patch cables for CAT6 drops.
6. A cable management system will be required for all MDF/IDF racks.
7. The existing cabling plant will be removed to clear pathways for the new cabling plant. This cost must be included and identified in the quote. All existing cables will be removed, even in locations where new drops aren't added. In locations where cabling is not being replaced, blank face plates must be installed.

8. All data drops will be clearly and professionally labeled with matching labels on the faceplate and on the patch panel. Handwritten labels are not acceptable.

9. All data drops will be tested and certified. The awarded vendor will provide a complete testing report for all data drops.

10. The minimum acceptable warranty period is 15 years. Please specify the warranty period for all cabling quoted. If there is a cost to extend the warranty to meet the minimum requirement, please include this cost in the quote under ineligible for E-Rate support.

Fiber Optic Cabling Specifications:

The prospective vendor will provide the cost for 12,000 feet of fiber optic cable runs. Refer to the Table below for the number of fiber optic cable runs per location. Each fiber optic cable run will meet the following specifications:

Single Mode	Qty	Single Mode	Qty
Admin IDF	1	Concessions IDF	1
Controls IDF	1	New Bldg C IDF	1
Strings IDF	1	House#1 IDF	1
Upper B IDF	1	House#2 IDF	1
Plant IDF	1	House#3 IDF	1
Facilities IDF	1	House#4 IDF	1

- All fiber optic cable runs will be 12-strand Single-mode fiber. Only 6 strands will be terminated.
- All fiber optic cable runs will be terminated on rack mounted LIUs using LC connectors.
- All fiber optic cable runs will have Plenum rated jackets.
- All inside fiber optic cable runs will be indoor rated. Any fiber optic cable runs that exit buildings and/or are pulled through in-ground conduit will be outdoor-rated and installed in inter-duct.
- The existing cabling plant will be removed to clear pathways for the new cabling plant. This cost must be included and identified in the quote.
- All fiber optic cable runs will be clearly and professionally labeled at each end of the run. Handwritten labels are not acceptable.
- Provide a 3-meter fiber optic jumper cable for each end of each cable run, terminated using LC connectors, (24) total jumper cables.
- Provide (2) 10G SFP+ transceivers for each fiber run, (24) total transceivers.
- All fiber optic cable runs will be tested and certified. The successful vendor will provide a complete testing report for all fiber optic cable runs.

Fiber Optic Backbone Cabling

Manufacture	BERK-TEK / LEVITON
Connectivity	SM / Single Mode
Connectors	LC

- Provide and Install (1) (12) SM fiber optic cable from the (1) MDF to (11) Existing and (1) New IDF rooms. Site specific
- Single mode (SM) optical fiber will be terminated utilizing a (LC) fiber optic connector.
- All coupler panels will coincide with the appropriate connector type(s).
- Please see attached materials list for qty of fiber cabinets.

CTS will test the fiber optic backbone with either a power meter and/or OTDR.

Support Structure (J-Hook/Cable Tray)

- Provide and Install 2" j-hooks to support the horizontal cabling infrastructure.
- Provide and install all necessary attachment hardware to meet all applicable industry standards and codes.

Telecommunications Work Area Cabling

Manufacture	Berk-Tek / Leviton
Data Cable	Cat 6 / PLENUM - BLUE
WAP	Cat 6A / PLENUM - GREEN

- Provide and Install (800) 4 pair Category (6/6A) UTP (PLENUM) cable(s) to approximately (568) locations. The standard outlet will consist of (2/4) data cable(s) cable(s). Note: Each work area may consist of various configurations of data and voice cable(s) as designated on the floor plans and is broken down as follows:
- Each data cable will home run to the MTC/TC equipment rack(s)
- Category (6/6A) data cables in the equipment room will be terminated on Category (6/6A) rack mount (48) port MODULAR (JACK) patch panels as needed utilizing the TIA/EIA T56B wiring scheme.
- Provide and Install (24 AND 48) port MODULAR rack mounted Category (6/6A) patch panel(s) in TC room.

Telecommunication Outlet (Faceplate)

Manufacture	Leviton
Data Insert	CAT6 - BLUE
WAP Insert	CAT6A - GREEN
IP Speaker	CAT6 - YELLOW

- Office/Flush Mount - The telecommunications faceplate will be a (2-4) port configuration. Color – (WHITE)
- Unused ports will have a blank insert installed.
- Category (6/6A) data cables at the work area will be terminated on single CAT (6/6A) inserts as needed, utilizing the TIA/EIA 568B wiring scheme.

Telecommunication Room

Cable Tray Manufacture	CPI
Rack Manufacture	CPI

- Install (1) 7’HX19W” equipment racks in New IDF – Black
- Provide and Install (2) 7’x3’ vertical double-sided wire managers to facilitate vertical cable management.
- Provide and install of ladder tray 18” – Color black in TR rooms (MDF)
- Provide and Install wall angle end support brackets to support the cable tray – Black
- Provide and install rack top plates to secure the rack to the cable tray – Black

Grounding/Bonding

- Provide and Install (1) 4”X10” copper wall mount bus bar in each MTC/TC room.
- The cable tray will be grounded together at all junctions (unless otherwise noted by the manufacturer) with a copper ground strap to provide to the isolated ground bus bar.
- The equipment rack(s) will be grounded with a # 6 insulated ground wire to the isolated ground bar.
- The general contractor and/or customer will be responsible for providing CTS with an approved building ground that meets all applicable industry standards and local, state and federal codes in each MTC and TC room(s).

Testing - Copper

- CTS will utilize the Fluke DSX-8000 field tester for this project. The DSX is the latest in field testers for testing and certifying twisted pair cabling for up to 10 Gigabit Ethernet deployments and will handle any cabling system whether it is a Cat 5e, 6, 6A or Class FA.
 - o Every cabling link in the installation will be tested in accordance with the Telecommunications Industry Association ANSI/TIA-1152 specifications for Level III.
 - o the installed twisted-pair horizontal links will be tested from the IDF/MDF in the telecommunications room to the telecommunication wall outlet in the work area against the “Permanent Link” performance limits specification.
 - o 100% of the installed cabling links will be tested and pass the requirements of the standards. Any failing link will be diagnosed and corrected. The corrective action will be followed with a new test to prove that the corrected link meets the performance requirements. The final and passing result of the tests for all links will be provided in the test results documentation package.

Testing – Fiber

- CTS will utilize either the DSX-8000 field tester with fiber modules or the Fluke OptiFiber field tester for this project.
- The OptiFiber is a full blown OTDR for testing and certifying fiber optic horizontal and backbone cabling links
 - o Fiber cable will be tested in accordance with the Telecommunications Industry Association (TIA) standard ANSI/TIA/EIA-568-C
 - o Testing of each fiber strand will be done at both the 850nm and 1300nm wavelength and tested in both directions.

Labeling

- Each work area outlet faceplate will be labeled with its own unique identifier and be computer generated for legibility and contain a clear plastic cover.
- Each port on the patch panel will be labeled with its own unique identifier to match the one at the work area and be computer generated for legibility.

PROVISIONS

All OSP (outside plant cabling) are estimates only. CTS will verify the actual lengths prior to installation with true tape and provide a credit or cost impact document before the installation.

Any additional work not specified in this scope of work or any additional work request from a customer will result in a CTS change order.

This proposal pricing is good for a period of 30 days unless otherwise noted.

Where material prices fluctuate, CTS reserves the right to adjust pricing if there are changes in material pricing. Written documentation from our suppliers to verify this condition can be provided.

The customer is responsible for any freight charges if the customer requests an expedited time frame.

CTS will require a project schedule showing all times the facility will be available. Including but not limited to, facility events, closures or limitations that may affect continuous work. Without a schedule, there is no way for CTS to commit to an end date for completion. Delays in the schedule will delay the completion date. Any requested overtime to improve the completion date will constitute a change order.

Any schedule changes or project delays due to work areas not being available during the scheduled time, and or any other interruptions outside of CTS control, including but not limited to delay by other trades or customer could result in additional cost to customer. Written notification is required 5 days prior to any schedule changes.

This SOW assumes a normal day shift of 8 continuous working hours between 5am and 5 pm, unless otherwise specified and agreed to in writing. Any work outside of this time frame may be subject to additional shift premiums.

This SOW includes one mobilization only. Changes that required additional starts and stops may be subject to additional charges via a change order. This would include, but not limited to, storage, equipment rentals, travel expenses, and other expenses incurred.

This quotation assumes that all existing and new conduits are properly sized with pull string installed and that any new conduits, pathways, wire mold, power poles, core holes, sleeves, and floor boxes, not mentioned in the above scope of work, will be provided, and installed by other vendors and will be ready prior to cable installation.

Phone Systems, Network Devices, Active Equipment are not included, unless otherwise stated in the scope of work. any other Control Components are NOT included in this proposal as directed, unless otherwise specified. It is the assumption that the owner will provide its own system to perform the functions as needed.

Patch Cords are not included unless otherwise stated in the scope of work.

All Contracts and/or Purchase Orders will be subject to monthly progress billings.

Retention dollars are to be paid within 60 days after the completion of our original scope of work, regardless of the total job completion.

Any project valued at \$2500 or above is subject to a pre-lien.

Effective Jan 1, 2015, customer is responsible for supplying CTS with Arizona Transaction Privilege Tax Exemption Form (TPT 5000) or Prime Contractor's Certificate (TPT 5005) as applicable.

Credit card payments shall be assessed at a 3.5% convenience fee.

**CTS PRICING PAGE PER AZ STATE CONTRACT
 BILL OF MATERIAL & RATES**

Quote #: 508938
 Date: 2/12/2026
 Estimator: Robert Bryant
 Sales: Joe Manuel



Customer: LYNN PENCE
 Project Name: CFHS - Erate Cabling Project

Material Tax Rate: 8.700%

0.000%

PRODUCT	PART NUMBER	DESCRIPTION	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE	
CABLE SUPPORT / CONDUIT / PATHWAY																
CableTie/Legrand	CAT32HW	J-Hooks 2" dia	EA	500	\$ 2.08	18%	\$ 2.45	\$ -	\$ 1,227.20	\$ 106.77	\$ 2.67	\$ 1,333.97	25.00		\$ 2,727.72	
Panduit	LD10W8-A	LD10 Raceway, 8FT Stick, Off White	EA	50	\$ 3.16	18%	\$ 3.73	\$ 186.44	\$ 16.22	\$ 4.05	\$ 202.66	8.50			\$ 676.54	
Panduit	DC10WV-X	LD10 Drop Ceiling Fitting, Off White	EA	50	\$ 1.95	18%	\$ 2.30	\$ 115.05	\$ 10.01	\$ 2.50	\$ 125.06	1.50			\$ 208.68	
Panduit	J8X3510WH	Surface Mount Box	EA	50	\$ 5.63	18%	\$ 6.64	\$ 332.17	\$ 28.90	\$ 7.22	\$ 361.07	12.50			\$ 1,057.94	
CTS	CTS	Misc. Attachment Hardware	EA	1	\$ 1,000.00	18%	\$ 1,180.00	\$ 1,180.00	\$ 102.66	\$ 1,282.66	\$ 1,282.66	4.00				\$ 1,505.66
Total Cable Support & Pathway Hours from Above:												51.50				

	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	HRS	Rate	Extended Labor	Lab Tax	Section Bid Amount		
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	12.875	\$ 48.00	\$ 618.00	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	12.875	\$ 55.00	\$ 708.13	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	12.875	\$ 60.00	\$ 772.50	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	12.875	\$ 60.00	\$ 772.50	\$ -			
Total Section 1												41.500	LABOR	\$ 2,071.13	\$ -	\$ 6,176.54

	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE		
Berk-Tek	162226	LatMark - 6 Plenum - Blue	LF	150,000	\$ 0.27	18%	\$ 0.32	\$ 50,359.31	\$ 4,381.26	\$ 0.33	\$ 47,700.57	1,264.00		\$ 125,208.57	
Berk-Tek	10137694	CAT 6A Plenum - Green	LF	42,000	\$ 0.54	18%	\$ 0.64	\$ 26,901.17	\$ 2,340.40	\$ 0.70	\$ 29,241.57	120.00		\$ 32,656.57	
CTS	CTS	Consumables	EA	1	\$ 1,000.00	18%	\$ 1,180.00	\$ 1,180.00	\$ 102.66	\$ 1,282.66	0.00			\$ 1,282.66	
CTS	CTS	Label - Work Area Cables	EA	1,600	\$ 1.07	18%	\$ 1.28	\$ 1,888.00	\$ 164.26	\$ 1.28	\$ 2,052.52	33.00		\$ 2,944.26	
CTS	CTS	Label - Facelates	EA	588	\$ 1.00	18%	\$ 1.18	\$ 670.24	\$ 58.31	\$ 1.28	\$ 728.55	28.40		\$ 2,311.85	
CTS	CTS	Terminate Patch Panel - Work Area	EA	868	\$ 1.00	18%	\$ 1.18	\$ 944.00	\$ 82.13	\$ 1.28	\$ 1,026.13	136.00		\$ 8,608.13	
Total Horizontal Rough In Hours from Above:												1,864.40			

	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	HRS	Rate	Extended Labor	Lab Tax	Section Bid Amount		
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	466.100	\$ 48.00	\$ 22,172.80	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	466.100	\$ 55.00	\$ 25,635.50	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	466.100	\$ 60.00	\$ 27,966.00	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	466.100	\$ 60.00	\$ 27,966.00	\$ -			
Total Section 2												1,864.40	LABOR	\$ 103,940.30	\$ -	\$ 193,012.03

	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE		
Leviton	420802-2P	2 Port Facelate (**=COLOR)	EA	232	\$ 1.80	18%	\$ 2.12	\$ 492.77	\$ 42.87	\$ 2.31	\$ 535.64	16.00		\$ 1,941.02	
Leviton	410892-2P	2 Port Surface Box	EA	336	\$ 2.30	18%	\$ 2.71	\$ 911.90	\$ 79.34	\$ 2.95	\$ 991.24	18.00		\$ 1,927.84	
Leviton	61110-RY6	CAT 6 568A/B insert - Yellow	EA	11	\$ 6.11	18%	\$ 7.21	\$ 79.31	\$ 6.90	\$ 7.84	\$ 86.21	0.88		\$ 135.27	
Leviton	61110-R16	CAT 6 568A/B insert - Blue	EA	3	\$ 6.11	18%	\$ 7.21	\$ 21.63	\$ 1.88	\$ 2.84	\$ 28.47	0.24		\$ 36.89	
Leviton	61110-B16	CAT 6 568A/B insert - 25pk - Blue	EA	37	\$ 145.34	18%	\$ 171.50	\$ 6,345.54	\$ 552.06	\$ 186.42	\$ 6,897.61	74.00		\$ 11,023.11	
Leviton	61110-BY6	CAT 6 568A/B insert - 25pk - Yellow	EA	13	\$ 145.34	18%	\$ 171.50	\$ 2,229.52	\$ 193.97	\$ 186.42	\$ 2,423.48	26.00		\$ 3,872.98	
Leviton	61100-RV6	CAT 6A 10G 568A/B insert - GREEN	EA	336	\$ 9.07	18%	\$ 11.41	\$ 3,833.96	\$ 333.55	\$ 12.40	\$ 4,167.52	33.00		\$ 6,040.72	
Leviton	49255-H24	24 Port Panel - Jack Panel	EA	25	\$ 41.90	18%	\$ 49.44	\$ 1,236.05	\$ 107.54	\$ 53.74	\$ 1,336.59	4.25		\$ 1,580.52	
Leviton	49255-Q48	48 Port Panel - Jack Panel	EA	25	\$ 86.42	18%	\$ 101.98	\$ 2,549.39	\$ 221.80	\$ 110.85	\$ 2,771.19	4.25		\$ 3,008.12	
CTS	CA-8L-01-3	3" CAT6, Slim line boots, blue	EA	612	\$ 1.82	18%	\$ 2.15	\$ 1,337.28	\$ 118.08	\$ 2.33	\$ 1,475.67	0.00		\$ 1,475.37	
Allentel	CA-8L-01-3	3" CAT6, Slim line boots, blue	EA	632	\$ 1.71	18%	\$ 2.02	\$ 1,272.25	\$ 110.95	\$ 2.19	\$ 1,386.20	0.00		\$ 1,386.20	
Allentel	CGA-GR-03-5	3" CAT6A, Slim, GREEN	EA	168	\$ 3.14	18%	\$ 3.71	\$ 622.47	\$ 54.16	\$ 4.03	\$ 676.63	0.00		\$ 676.63	
Allentel	GS-162-SMD-03	3 meter Fiber Jumper - LC to LC SM	EA	25	\$ 8.24	18%	\$ 9.72	\$ 243.08	\$ 21.15	\$ 10.57	\$ 264.23	0.00		\$ 264.23	
Allentel	SFP-6121	10G SFP Transceiver - LC / SM	EA	25	\$ 23.40	18%	\$ 27.61	\$ 690.30	\$ 60.06	\$ 30.01	\$ 750.36	2.50		\$ 889.73	
Total Connectivity/End Devices Hours from Above:												178.70			

	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	HRS	Rate	Extended Labor	Lab Tax	Section Bid Amount		
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	466.100	\$ 48.00	\$ 22,172.80	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	466.100	\$ 55.00	\$ 25,635.50	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	466.100	\$ 60.00	\$ 27,966.00	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	466.100	\$ 60.00	\$ 27,966.00	\$ -			
Total Section 3												1,864.40	LABOR	\$ 103,940.30	\$ -	\$ 193,012.03

	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE		
Chatsworth	11421-718	18" Wall Angle Support Kit - Section	EA	2	\$ 36.41	18%	\$ 42.96	\$ 85.93	\$ 7.48	\$ 46.70	\$ 93.40	0.50		\$ 121.28	
Chatsworth	10622-010	10" Wall Mount Bus Bar Kit	EA	1	\$ 147.45	18%	\$ 173.99	\$ 173.99	\$ 15.14	\$ 189.13	\$ 189.13	0.25		\$ 203.07	
Chatsworth	10610-019	19" Rack Mount Bus Bar Kit	EA	1	\$ 74.27	18%	\$ 87.64	\$ 87.64	\$ 7.62	\$ 95.26	\$ 95.26	0.17		\$ 104.74	
Chatsworth	55053-703	7 x 19" Standard Equipment Rack - Black	EA	1	\$ 197.80	18%	\$ 233.40	\$ 233.40	\$ 20.31	\$ 253.71	\$ 253.71	1.25		\$ 323.40	
Chatsworth	13911-703	Velocity 7" double sided, vertical, 3 6" Wide m	EA	2	\$ 262.16	18%	\$ 309.35	\$ 618.70	\$ 53.83	\$ 336.26	\$ 672.52	0.66		\$ 709.32	
CTS	0	1/2" X 3/4" fire rated plywood	EA	1	\$ 1.00	18%	\$ 1.18	\$ 1.18	\$ 0.10	\$ 1.28	\$ 1.28	0.00		\$ 1.28	
CTS	Graybar	#6 Ground Wire	LF	150	\$ 0.90	18%	\$ 1.06	\$ 159.30	\$ 13.86	\$ 1.15	\$ 173.16	7.50		\$ 591.28	
Burdys	Y662TC14	#6 Two-Hole Lug Compression Connector Blue	EA	10	\$ 3.13	18%	\$ 3.69	\$ 36.93	\$ 3.21	\$ 4.01	\$ 40.15	2.50		\$ 179.52	
CTS	Consumables	Misc hardware, grounding labels	EA	1	\$ 500.00	18%	\$ 590.00	\$ 590.00	\$ 51.33	\$ 641.33	\$ 641.33	20.00		\$ 864.33	
Total Equipment Room Hours from Above:												20.58			

	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	HRS	Rate	Extended Labor	Lab Tax	Section Bid Amount		
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	5.145	\$ 48.00	\$ 246.96	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	5.145	\$ 55.00	\$ 282.98	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	5.145	\$ 60.00	\$ 308.70	\$ -			
Labor Only	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	CTS	5.145	\$ 60.00	\$ 308.70	\$ -			
Total Section 4												20.580	LABOR	\$ 9,965.87	\$ -	\$ 34,383.53

	UOM	QTY	COST PRICE	COST PLUS %	SELL PRICE	EXT. SELL	MAT TAX	MATERIAL	EXTENDED MATERIAL PRICE	TOTAL LABOR	EXTENDED LABOR PRICE	LABOR TAX	TOTAL BID PRICE	
FIBER OPTIC BACKBONE														
LEVITON	UPPLC-KIT	KIT 12MPO5 9U LC SM 3meter	EA	25	\$ 58.17	18%	\$ 68.64	\$ 187.04	\$ 16.27	\$ 74.61	\$ 1,851.31	75.00		\$ 6,046.56
LEVITON	TSPL5-12F	MOLDED SPLC TRY 12F	EA	12	\$ 32.46	18%	\$ 38.30	\$ 95.77	\$ 83.31	\$ 41.64	\$ 1,040.88	75.00		\$ 5,222.13
CTS	0	12" CAT6 cable, plenum indoor/outdoor	LF	250	\$ 0.50	18%	\$ 0.59	\$ 1,099.74	\$ 618.55	\$ 0.64	\$ 772.22	25.00		\$ 21,108.28
LEVITON	SR1UM-F03	3U Rack Mt Fiber Enclosure (3 Panels)	EA	12	\$ 189.02	18%	\$ 223.04	\$ 2,676.52	\$ 232.86	\$ 242.45	\$ 2,909.38	1.20		\$ 2,976.28
LEVITON	SR4UM-F12	288U 4U Rack Mt Fiber Enclosure (12 Panels)	EA	2	\$ 382.71	18%	\$ 451.60	\$ 903.20	\$ 78.58	\$ 490.89	\$ 981.77	0.20		\$ 992.92
LEVITON	SF100-2LL	LC SM 12 Fiber	EA	24	\$ 73.48	18%	\$ 86.71	\$ 2,080.95	\$ 181.04	\$ 94.23	\$ 2,262.00	1.93		\$ 2,369.04
LEVITON														