



ALEDO ISD BOARD MEETING TEMPLATE

MEETING DATE: May 19, 2014

AGENDA ITEM: Consider Approval of Purchase of Network Cabling and Electronics for Aledo Learning Center

PRESENTER: Earl Husfeld

ALIGNS TO BOARD GOAL(S): Financial/Facilities – The District shall exhibit excellence in financial and facility planning, management, and stewardship.

BACKGROUND INFORMATION:

- The construction phase of the addition/renovation of the Aledo Learning Center project began in the late October, early November time frame.
- Per Board Policy CH (Local), any single, budgeted purchase of goods or services that costs \$50,000 or more, regardless of whether the goods or services are competitively purchased, shall require Board approval before a transaction may take place.

ADMINISTRATIVE CONSIDERATIONS:

- In conjunction with the addition/renovation of the Aledo Learning Center, this proposed purchase provides for the installation of “drops” for data, telephone, wireless, and cameras, as well as wiring to doors for access control. Also included are the network electronics (wireless access points, switches, controller, etc.) and audio visual systems and equipment.
- To ensure the best pricing and value, the District utilized the State of Texas Department of Information Resources (DIR) cooperative purchasing method to obtain the quote from Technology for Education, LLC.
- In accordance with Board Policy CH (Local), the purchase/bid itemized on the following pages is presented for your review and consideration.

FISCAL NOTE:

The cost of this purchase will be paid from available 2008 bond proceeds. There will be no impact to the District’s debt position or to the interest and sinking fund portion of the District’s tax rate.

ADMINISTRATIVE RECOMMENDATION:

The Administration recommends the Board of Trustees approve the purchase of network cabling and electronics for Aledo Learning Center from Technology for Education, LLC in an amount not to exceed \$144,113.58.

ALED0 INDEPENDENT SCHOOL DISTRICT
PURCHASE/BID FOR APPROVAL
MAY 19, 2014

BID NO.	DESCRIPTION/FUNDING SOURCE	AMOUNT	RECOMMENDED VENDOR(S)
DIR-SDD-1377	Network Cabling and Electronics for Aledo Learning Center Addition/Renovation per Quote #30243 (2008 Bond Proceeds)	\$144,113.58	1. Technology for Education, LLC dba TFE



Quote# 30243

HUB VID#: 75273

658 Alliance Parkway, Hewitt TX, 76643

Ph: 214.394.8814 Fax: 254.299.1396

Kristy.Dice, Account ManagerKristy.Dice@TFEconnect.com**Tammy Russo, ISAC**

To: Aledo ISD

Date: May 7, 2014

Attn: Brooks Moore

RE: Cisco Switches / AP's, Cable and A/V Drops for Alternative Center Additions

- Please Reference Quote Number on Correspondence -

Qty	Part #	Description	Price Each	Extended
DIR-SDD-1377				
IPC				
<u>Cisco 3702i Access Points</u>				
20	AIR-CAP3702I-A-K9	802.11ac Ctrlr AP 4x4:3SS w/CleanAir; Int Ant; A Reg Domain	\$ 822.25	\$ 16,445.00
20	AIR-AP-BRACKET-1	802.11n AP Low Profile Mounting Bracket (Default)	Included	
20	AIR-AP-T-RAIL-R	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)	Included	
20	SWAP3700-RCOVRY-K9	Cisco 3700 Series IOS WIRELESS LAN RECOVERY	\$ -	\$ -
<u>Cisco 2960X Catalyst Switch</u>				
1	WS-C2960X-48FPD-L	Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base	\$ 4,397.25	\$ 4,397.25
1	CAB-16AWG-AC	AC Power cord, 16AWG	Included	
1	CON-SNT-WSC296XL	SMARTNET 8X5XNBD Catalyst 2960-X 48 GigE PoE 740W, 2 x 10	\$ 314.40	\$ 314.40
<u>Cisco 2960X Catalyst Switch</u>				
5	WS-C2960X-48FPD-L	Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base	\$ 3,077.25	\$ 15,386.25
5	CAB-16AWG-AC	AC Power cord, 16AWG	Included	
5	CON-SNT-WSC296XL	CON-SNT-WSC298DL SMARTNET 8X5XNBD Catalyst 2960-X 48 G	\$ 220.08	\$ 1,100.40
<u>Cisco Wireless Controller</u>				
1	AIR-CT2504-25-K9	2504 Wireless Controller with 25 AP Licenses	\$ 3,572.25	\$ 3,572.25
1	AIR-CT2504-CCBL	2504 Wireless Controller Console Cable	Included	
1	AIR-CT2504-K9	2504 Wireless Controller with 0 AP Licenses	Included	
1	AIR-CT2504-SW-7.4	Cisco 2504 Wireless Controller SW Rel. 7.4	Included	
1	CAB-AC2	AC Power cord North America	Included	
1	CON-SNT-CT2525	SMARTNET 8X5XNBD 2504 Wireless LAN Controller with 25 AP	\$ 552.82	\$ 552.82
5	LIC-CT2504-5	5 AP License for 2504 WLAN Controller	Included	
1	LIC-CT2504-BASE	Base Software License	Included	
<u>Cisco Stack Options</u>				
1	C2960X-STAC=	Catalyst 2960-X FlexStack Plus Stacking Module optional	\$ 657.25	
1	CAB-STK-E-0.5M	Cisco FlexStack 50cm stacking cable	\$ -	\$ -
<u>Cisco 10Gb Module Option</u>				
1	SFP-10G-SR=	10GBASE-SR SFP Module	\$ 547.25	
Cabling				
<u>Phase 1 - Drops for Alternative Center</u>				
1	TFE-MISC	CAT6 Drops for Alternative Center	\$ 22,435.59	\$ 22,435.59
1	TFE-LABOR	TFE Professional Services - See Scope of Installation	\$ 20,004.41	\$ 20,004.41
<u>Phase 2 - Drops for Alternative Center</u>				
1	TFE-MISC	CAT6 Drops for Alternative Center	\$ 4,996.19	\$ 4,996.19
1	TFE-LABOR	TFE Professional Services - See Scope of Installation	\$ 4,588.81	\$ 4,588.81
AV				
1	TFE-MISC	Miscellaneous Cables, Connectors and Installation Hardware	\$ 41,827.00	\$ 41,827.00
1	TFE-LABOR	TFE Professional Services - See Scope of Installation	\$ 8,493.21	\$ 8,493.21

Aledo ISD - Cisco Switches AP's, Cable and AV Drops for Alternative Center Additions (30243) TR INTERNAL ONLY

Please Confirm Pricing If Ordering More Than 20 Days After Quote Date.

Pricing is based on quantity of equipment being purchased.

Total:	\$	144,113.58
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Note:

See Scope of Installation

District may be responsible for return shipping costs plus a restocking fee if product is returned



Scope of Work

Aledo ISD (30243)

Drops for Alternative Center Additions

By Ed Barretto

Project Narrative

Aledo ISD wants to add Cat6 Drops for Data, Telephone, Wireless and Cameras for the Alternative Center Additions. Panduit/General Solution has been proposed. Also install Wiring to Doors for Access Control.

Phase 1 will consist of (203) Cabling for Drops. (5) Wiring for Access Control to rooms [A134](#), [A145A](#), [A150B](#), [A151A](#), [A139A](#). And properly Grounding Existing Rack.

Phase 2 will consist of (45) Cabling of remaining Drops.

Total = (248) Cat 6 Data Drops per the table below.

Location	Description	Total Drops	Notes
Alternative Center	Phase I Data Pulls	166	
Alternative Center	Phase I Wireless Pulls	9	
Alternative Center	Phase I Telephone Pulls	11	
Alternative Center	Phase I Camera Pulls	17	
Alternative Center	Phase II Data Pulls	26	
Alternative Center	Phase II Wireless Pulls	10	
Alternative Center	Phase II Telephone Pulls	5	
Alternative Center	Phase II Camera Pulls	4	
	Total Pulls	248	
	Total Data Only Pulls	192	
	Total POE Pulls	40	
	Total Phone Pulls	16	

TFE will test and label all new cables.

Project Discovery

Identify nearest MDF/IDF.

Caveats

- TFE IS NOT RESPONSIBLE FOR ANY DESIGN RELATED ISSUES UNLESS CUSTOMER HAS RETAINED AND/OR PAID TFE FOR PROFESSIONAL CONSULTING SERVICES.
- RETURN OF EQUIPMENT MAY RESULT IN A RESTOCKING FEE BASED ON DISTRIBUTOR'S OR MANUFACTURER'S RETURN POLICY. OPEN BOXES CANNOT BE RETURNED.
- TFE IS NOT RESPONSIBLE FOR ENSURING EXISTING COPPER OR FIBER WILL OPERATE PROPERLY WITH NEW EQUIPMENT. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE CABLING PLANT MEETS STRUCTURED CABLING, IEEE, OR BICSI STANDARDS.
- CUSTOMER IS RESPONSIBLE FOR PROVIDING ALL COPPER AND FIBER CABLES UNLESS PART OF THE QUOTE. MANUFACTURER'S EQUIPMENT DOES NOT INCLUDE PATCH CORDS OR FIBER JUMPERS.
- CUSTOMER IS RESPONSIBLE FOR PROVIDING PROPER ENVIRONMENTAL CONDITIONS INCLUDING BUT NOT LIMITED TO RACK SPACE, COOLING, DUST, AND POWER (INCLUDING POWER OUTLETS FOR ALL EQUIPMENT).
- CUSTOMER IS RESPONSIBLE FOR PROVIDING SAFE WORKING CONDITIONS FOR TFE INCLUDING BUT NOT LIMITED TO ELECTRICAL, ASBESTOS, AND OTHERS.
- TFE DOES NOT WARRANT LABOR OR PROVIDE ANY SERVICE LEVEL AGREEMENT (SLA) FOR POST INSTALLATION ISSUES UNLESS MAINTENANCE CONTRACTS OR OUTSOURCING HOURS ARE PURCHASED FROM TFE. TFE WILL PROVIDE SUPPORT AT ITS NORMAL HOURLY RATE FOR PEAK TIMES AND TIME AND A HALF FOR OFF PEAK TIMES. TFE WILL ATTEMPT TO RESPOND WITHIN 4 HOURS TO EMERGENCY OUTTAGES.
- CUSTOMER AGREES TO NOT SOLICIT ANY TFE EMPLOYEES FOR CUSTOMER EMPLOYMENT.
- CUSTOMER IS RESPONSIBLE FOR INSTALLING ANY DESKTOP SOFTWARE UNLESS LISTED ABOVE.
- TFE REQUIRES VPN ACCESS FOR TIMELY TROUBLESHOOTING AND PROBLEM RESOLUTION.
- INSTALLATION TIMES ARE PRIMARILY MONDAY THROUGH FRIDAY, 8AM TO 5PM. AFTER-HOURS CUTOVERS WILL BE COORDINATED WITH CUSTOMER REPRESENTATIVE IF PART OF SCOPE OF WORK.
- TFE DOES NOT WARRANT AGAINST MANUFACTURER DEFECTS, EITHER SOFTWARE OR HARDWARE. TFE WILL ASSIST CUSTOMER IN RESOLVING ISSUES NOT RELATED TO INSTALLATION DEFECTS AT ITS NORMAL HOURLY RATE.
- TFE IS NOT RESPONSIBLE FOR ANY DAMAGES, MONETARILY OR OTHERWISE, AS A RESULT OF UNINTENTIONAL DOWN-TIME. PLANNED DOWN-TIME WILL BE COORDINATED WITH CUSTOMER AND TFE WILL DO EVERYTHING IN ITS POWER TO MINIMIZE ANY INCONVENIENCE TO CUSTOMER.
- TFE RECOMMENDS THAT ALL CONFIGURATIONS AND USER DATA BE BACKED UP PRIOR TO NETWORK CHANGES. TFE IS NOT RESPONSIBLE FOR ANY DAMAGES, MONETARILY OR OTHERWISE, AS A RESULT OF DATA LOSS.
- TFE RECOMMENDS MANUFACTURER TRAINING FOR TOPICS OR DETAILS OUTSIDE OF THE SCOPE OF TFE TRAINING.
- TFE REQUIRES PAYMENT FOR EQUIPMENT ONCE DELIVERED TO CUSTOMER'S LOCATION OR RECEIVED AT TFE AS STORED MATERIALS. PAYMENT FOR IMPLEMENTATION WILL FOLLOW MILESTONES. TFE WILL PROVIDE PROGRESS PAYMENTS WITH ANY REQUIRED SUPPORTING DOCUMENTATION.
- CHANGES TO SYSTEM DURING OR AFTER INSTALLATION WILL REQUIRE ADVANCED WRITTEN NOTIFICATION AND MAY BE SUBJECT TO CUSTOMIZATION CHARGES AT STANDARD HOURLY RATES.



Scope of Work

Aledo ISD

Alternative Center AV (Quote#30243)

By Kevin Jones

Project Narrative

Aledo ISD is requesting design and quote for 4 rooms at the alternative center. Three of the rooms are separated with foldable walls and will need the functionality of combining or dividing their AV systems. The fourth room is a standalone room and an interactive projector with Smartboard has been requested.

TFE is proposing a solution using Crestron control and DM distribution for AV. Each room will have a touchpanel to control combining and dividing rooms. A wall rack will house the equipment in a central location. Each of the three rooms will have inputs for HDMI and VGA with one of the rooms also having Composite video input. Each room will be capable of transmitting to all rooms for audio and video. The rooms can also be separated to act independently of each other. The fourth room will have an interactive projector and smartboard. All audio in all rooms will be via ceiling speakers that are drop tile replacement style.

Project Discovery

- Determine location for wall rack. ADA Compliant location needed.
- Determine location for input plates.
- Determine locations for projectors and speakers.
- Determine cable paths.
- Discuss and finalize combinable room functionality.
- Determine installation timeline and facility availability for installation.

Combinable rooms (QTY 3)

- TFE will deliver and install a wall mounted equipment rack with power distribution installed.
- TFE will deliver and install 2 DM wallplates (HDMI and VGA/Audio) and one custom wall plate for HDMI VGA audio and composite video.
- TFE will deliver and install a Creston DMPS-300 media presentation switcher.
- TFE will deliver and install 3 4.3" Crestron wall touchpanels.
- TFE will deliver and install 3 Panasonic video projectors. Each will display on a markerboard in the rooms. Customer is aware that this is not the optimal projection surface and "hotspotting" may occur.
- TFE will deliver and install 4 ceiling speakers in each classroom area for proper sound coverage.
- TFE will program and test the system for all functionality.
- Crestron functionality will consist of:
 - Projector Power
 - Room divide and combine functionality
 - Volume control and mute
 - Source selection

Interactive projector room

- TFE will deliver and install an 87" diagonal Smart technologies digital whiteboard.
- TFE will deliver and install a Boxlight interactive projector with spare lamp and lamps for life program.
- TFE will deliver and install a custom faceplate and instructor podium/cart that is consistent with the standards of the district.
- Cart will have a 25 ft cable snake to attach it to the wall plate on the wall.
- TFE will deliver and install a Smart Document camera.
- TFE will deliver and install ceiling mounted speakers in the room for audio.
- TFE will interconnect all cabling and test the system for proper functionality.

Close-out Documentation

- Documentation will be provided electronically.

Project Management

- Conduct a kick-off meeting to introduce the team and confirm the objectives, timeline, and approach.
- Identify key personnel for the project.
- Coordination of equipment delivery.
- Provide project timeline.
- Verify weekly project progress.
- Provide weekly status reports (if required).
- Provide problem escalation.

Additional Customization

Billed at Standard Hourly Rates

*****Additional Customization is for items not defined in this scope of work.*****

Caveats

- **ALEDO ISD IS RESPONSIBLE FOR ALL 120V POWER REQUIRED FOR THE SYSTEM.**
- **ALEDO ISD IS RESPONSIBLE FOR PROVIDING AN ADA COMPLIANT LOCATION FOR WALL RACK.**
- TFE IS NOT RESPONSIBLE FOR ANY DESIGN RELATED ISSUES UNLESS CUSTOMER HAS RETAINED AND/OR PAID TFE FOR PROFESSIONAL CONSULTING SERVICES.
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Name

Title

Signature

Date

TFE Project Manager Signature