



Building Systems Integration

Company:	Denton ISD	Job Name:	Middle School #7
Address:	1307 N. Locust Denton, TX 76201	Address:	133 Garza Rd. Shady Shores, TX 75065
Contact:	Glen Martin		
Phone No.:	940-369-0222	Date:	March 22, 2012
E-mail:	gmartin@dentonisd.org	Proposal:	HVAC, Access, and Irrigation

Dear Glen

We propose to furnish and install a Denton ISD standard; Tridium Niagara based HVAC, Access, and Irrigation control system for the new Middle School #7, per plans and specs dated February 27th, 2012.

HVAC Controls for the following:

- (8) condenser water pump packages with (2) pumps each with associated valves and devices
- (8) Energy Recover Ventilators
- (2) Domestic Water Preheat Heat Pumps
- (24) Rooftop Water Source Heat Pumps
- (92) Horizontal Water Source Heat Pumps
- (8) DX Split Systems
- Miscellaneous points including:
 - a. (6) additional space sensors for monitoring and control in the office area
 - b. (1) Modbus integration to the main electrical gear for KWH usage and tracking
 - c. (1) Gas Meter pulsed input for monitoring usage
 - d. (1) Domestic water pulsed input for monitoring usage
 - e. (1) each Outside air Temperature and Humidity
 - f. (8) Electric unit heaters (monitoring only)
 - g. (1) Gas unit heater (monitoring only)
 - h. (6) Exhaust Fans (control and monitoring)
 - i. (11) Thermostats for exhaust fans
 - j. (3) points for Exterior Building Security Lights
 - k. (3) points for Exterior Pole Lights

Specific exclusions & clarifications:

1. 110 VAC power for our enclosures is excluded
2. Equipment specific integration boards or controllers are excluded as is the cost of support for integration from any other contractor or supplier is excluded.
3. Underground conduit to the Gas Meter or Water Meter to be installed by others.
4. District LAN/WAN connection is excluded
5. Fire dampers, smoke dampers or combination fire-smoke dampers, their actuators, and controls are excluded
6. Smoke detectors are excluded
7. Testing and balancing are excluded
8. Space sensor back boxes and conduit stub-ups are excluded
9. Performance and payment bond.

HVAC Controls Pricing:

\$358,810.00



Access Controls for the following:

Door #	Type	Reader	DSS	Lock	Qty	Location
1	Triple	1	3	Crash bar	3	Front
2	Triple	1	3	Crash bar	3	Font Vestibule
3	Double	1	2	Crash bar	1	Front Hall
4	Single	1	1	Crash bar	1	Art
5	Single	1	1	Crash bar	1	Art
6	Double	1	2	Crash bar	1	NW Hall
7	Double	DSS	2			Gym
8	Double	DSS	2			Gym
9	Double	1	2	Crash bar	1	West Hall
10	Single	1	1	Crash bar	1	Girls Locker Rm
11	Single	1	1	Crash bar	1	Boys Locker Rm
12	Double	DSS	2			SW Hall
13	Double	1	2	Crash bar	1	Receiving
14	Double	DSS	2			Mechanical Rm
15	Single	DSS	1			Electrical Rm
16	Single	1	1	Crash bar	1	Kitchen
17	Double	DSS	2			Café
18	Quad	1	4	Crash bar	4	S Hall
19	Double	1	2	Crash bar	1	SE Hall
20	Double	1	2	Crash bar	1	C Wing
21	Double	1	2	Crash bar	1	B Wing
22	Double	1	2	Crash bar	1	A Wing

Also Included:

- (1) Panic button located at the reception desk
- (1) Door release button located at the reception desk to release door #2
- (1) Operator Work Station located in the office per district standards
- (100) Access cards

Specific exclusions & clarifications:

1. 110 VAC power for our enclosures is excluded
2. All locking hardware to be furnished and installed by others.
3. District LAN/WAN connection is excluded
4. Reader back boxes and conduit stub-ups are excluded
5. Conduit pathways into door frames to be supplied by others
6. Performance and payment bond.

Access Controls Pricing:

\$52,742.00



Irrigation Controls for the following:

- (61) Irrigation zone control valves
- (2) Irrigation water meters
- (1) Master control valve
- (1) Rain sensor

Specific exclusions & clarifications:

10. 110 VAC power for our enclosures is excluded
11. District LAN/WAN connection is excluded
12. The booster pump control package, its installation, and controls interlocking is not included (everything is supposed to be integral to the package)
13. Master Control Valve, Water Meters, and their installation by others.
14. Irrigation system to be fully functional and operating before we install our controls to take it over.
15. Underground conduit to the Master Control Valve and Meters to be installed by others.
16. Performance and payment bond.

Irrigation Controls Pricing:

\$23,203.00

Subtotal for all projects:

\$434,755.00

Add Alternate #1 to monitor status on (42) Exhaust Fans: \$18,675.00

Add Alternate #2 to create a teacher page for all classrooms: \$24,200.00

Add Alternate #3 to add a DSS for the penthouse doors: \$2,700.00

Deduct to use SENVA Triple Combo sensors instead of Veris (\$15,225.00)

This proposal is submitted as part of our TCPN contract # R5055

Respectfully Submitted,

Orland Hilliard
Construction Manager
Building Systems Integration
TDIndustries
13850 Diplomat Drive,
Dallas TX 75234
972-888-9231

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License # A/C TACL-A02426C Dallas, Plumbing M-36566 DFW, Electrical E-32734 DFW, Sanitary Sewer N/A



Clarifications

- This proposal is **Proprietary Information** and is considered **Confidential** and shall not be shared with any other Organization outside of the Client for which this proposal was created for and referenced above.
- This proposal is based on performing work during normal working hours and at normal wage rates paid by TDIndustries, Inc.
- Price is based on the assumption that the structure is of sufficient strength that all piping, duct and equipment can be supported from it.
- Proposal is inclusive of all permits and inspections as required by local and state agencies. Where work is being performed under a General Contractor, we will validate under Contractors Building Code permit.
- All pricing is based on award of contract and work commence not later than 90 days from the date of this proposal with pricing subject to review after 30 days from the date of proposal.
- TDIndustries, Inc. assumes no responsibility for existing services / conditions, their quality and/or performance.
- TDIndustries, Inc. assumes no responsibility for condition of utilities or parking lots/roadways above or below grade.
- TDIndustries disclaims any responsibility for incorrect data contained in the plan, specs and/or engineering data.

Exclusions

- Any additional work not listed in the scope above will require written authorization by the customer before TDIndustries, Inc. can proceed.
- Smoke detectors, fire dampers, smoke dampers or combination fire-smoke dampers and their actuators.
- Smoke control.
- Interlock wiring between the split system's condenser/s and evaporator/s.
- 120-Volt power to control panels and enclosures and/or line voltage power wiring except where required for interlocks.
- Air and water testing and balancing. Testing and balancing of the control system is included.
- Network drop, static IP addresses and verification of TCP/IP connectivity (Owner to provide).
- Emergency power circuits for the EMS equipment.
- Mechanical equipment replacement or repair, including valves and dampers. In the event any mechanical equipment needs to be repaired or replaced, TDIndustries will provide a proposal and receive owner approval to address the issue before any work will be performed.
- The functionality of all equipment, controllers, valves and actuators (except the new chill water globe valves), sensors, and devices. In the event, we determine any of the aforementioned equipment or parts need to be replaced, we will provide a price to replace before any replacements are performed.
- Demolition of the existing system.
- Sheetrock or concrete cutting, removal or patching of any nature.
- Painting of any nature.
- Cleaning or painting of existing grilles.
- Ceiling removal or replacement.
- Asbestos abatement or disposal of hazardous waste.
- Additional work required to meet OSHA or ADA standards.
- Any additional work that may be required by the city to meet existing codes.
- After hours labor. All work for the scope of work above is assumed to be during normal working hours.
- This proposal is based on the assumption that the architect and/or engineer will provide all electronic files to TDIndustries, Inc. at no cost.
- Preventive and required maintenance during first year.
- Payment or Performance Bonds, taxes, and permit fees.
- Liquidated Damages of any kind.



- Any additional work not listed in the scope above will require written authorization by the customer before TDIndustries, Inc. can proceed.

LIMITED WARRANTY	
1	EQUIPMENT, GOODS, MATERIAL PURCHASED AND INSTALLED BY TDINDUSTRIES: TDIndustries, Inc. shall use its best efforts to obtain from each manufacturer, in accordance with the manufacturer's warranty (copies of which will be furnished upon request) or customary practice, the repair or replacement of equipment, goods, or material that are defective in material or workmanship. The foregoing shall constitute the exclusive remedy of the customer and sole obligation of TDIndustries, Inc. THERE ARE NO WARRANTIES, EITHER WRITTEN OR ORAL, IMPLIED OR STATUTORY RELATING TO THE EQUIPMENT, GOODS, OR MATERIAL, PROVIDED WHICH EXTEND BEYOND THAT DESCRIBED IN THIS PARAGRAPH. NO IMPLIED STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY.
2	Workmanship - Repair Installation - TDIndustries, Inc. warrants its workmanship to be free from defects for a period of 12-months from the date of completion of the above equipment, goods, and material. Sewer and Drain Cleaning - TDIndustries, Inc. warrants its workmanship for sewer and drain cleaning for a period of 24 hours from the date of completion. Any foreign material retrieved from sewer or drain will discharge warranty and incur additional costs for clearing stoppage.
	This proposal is submitted for customer's consideration with the understanding that it must be approved by TDIndustries, Inc. after its acceptance by the customer and is not binding upon TDIndustries, Inc. until so approved in writing.
	Your acceptance of this proposal is expressly limited to the terms of this document. Any additional or different terms or conditions set forth in your purchase order or in any similar such communication are hereby objected to by TDIndustries, Inc. and shall not be binding nor effective unless assented to in writing by an authorized representative of TDIndustries, Inc. Any order or any statement of intent to proceed with installation or any direction to proceed with installation or acceptance of this proposal or payment in full or part for any of the work or equipment furnished shall constitute customer's assent to the terms and conditions of this proposal.
	THIS PROPOSAL IS EXPRESSLY CONDITIONED UPON THE TERMS AND CONDITIONS CONTAINED OR REFERRED TO HEREIN, INCLUDING THOSE CONTAINED IN ANY ATTACHMENT HERETO.
STANDARD TERMS AND CONDITIONS	
	THIS PROPOSAL IS EXPRESSLY CONDITIONED UPON THE TERMS AND CONDITIONS CONTAINED OR REFERRED TO HEREIN, INCLUDING THOSE CONTAINED IN ANY ATTACHMENT HERETO.
1	TDIndustries, Inc. liability or any claim for loss or damage arising out of this contract or from the performance or breach thereof or connected with the supplying of any labor, equipment, goods or material hereunder, or their sale, resale, operation or use, whether based on contract, warranty, tort (including negligence) or other grounds, shall not exceed the price allowable to such labor, equipment, goods or material, or part thereof involved in the claim. TDIndustries, Inc. shall not, under any circumstances, be liable for any labor charges without the prior written consent of TDIndustries, Inc. TDIndustries, Inc. shall not, in any event, be liable, whether as a result of breach of contract, warranty, tort (including negligence) or other grounds, for special, consequential, incidental or penal damages including, but not limited to, loss of profits, revenues, loss of the product or any associated product, cost of capital, cost of substitute products, facilities or services, downtime costs or claims of the Customer for such damages. If TDIndustries, Inc. furnishes Customer with advice or other assistance which concerns labor, equipment, goods, or material furnished hereunder, or any systems or equipment in which of such equipment, goods, or material may be installed, and which is not pursuant to this contract, the furnishing of such advice or assistance will not subject TDIndustries, Inc. to any liability, whether based on contract, warranty, tort (including negligence) or other grounds.
2	If TDIndustries, Inc. encounters asbestos, polychlorinated Biphenyl (PCB) or other hazardous substances on the site, TDIndustries, Inc. will stop work and report the condition to the owner or owners' representative. TDIndustries, Inc. will not resume work in the affected area until the asbestos, PCB's or other hazardous substances have been removed or otherwise controlled so that it does not pose a health or safety threat.
3	Any installation dates given in advance are estimated. Installation will be subject to prior orders with TDIndustries, Inc. TDIndustries, Inc. shall not be liable for failure to perform or delay in performance hereunder resulting from fire, labor difficulties, delays in usual sources of supply, major changes in economic conditions, or, without limitation by the foregoing, any cause beyond TDIndustries, Inc. reasonable control.
4	On arrival of any equipment, goods and material at the shipping address specified on the reverse side hereof, Customer shall assume all risk or loss or damage to such equipment, goods, or material.
5	In the event Customer requires TDIndustries, Inc. to delay shipment or completion of the work under this proposal, payment pursuant to this proposal shall not be withheld or delayed on such account. TDIndustries, Inc. shall have the right to deliver any portion of the equipment, goods or material to be furnished hereunder and to bill Customer therefore, and Customer agrees to pay for the same in accordance with terms of the payment hereof upon notification that such shipment is ready for delivery, notwithstanding the fact that Customer may be unable to receive or provide suitable storage space for any such partial delivery. In such event, such portion of the equipment, TDIndustries, Inc. may store goods or material ready for shipment at Customer's risk and expense.
6	The amount of any past, present or future occupation, sales, use, service, excise or other similar tax which TDIndustries, Inc. shall be liable for, either on its own behalf or on behalf of Customer, or otherwise, with respect to any equipment, goods, material or service covered by this proposal, shall be in addition to the prices set forth herein and shall be paid by Customer.
7	If the equipment, goods or material furnished hereunder requires the use of water or steam, recirculated or otherwise, TDIndustries, Inc. shall not be liable for the effect of its physical or chemical properties upon said equipment, goods or material.
8	All skilled or common labor which may be furnished by the Customer shall be considered and treated as Customer's own employees, and Customer agrees to fully protect and indemnify TDIndustries, Inc. against all claims for accidents or injuries to such employees in the course of the work, or to any person or persons through the negligence of such employees.
9	No oral representations are binding upon TDIndustries, Inc. unless reduced to writing and signed by an authorized representative of TDIndustries, Inc. All changes to this contract must be in writing.
Revised 05-09-2008	

TDIndustries, Inc. 13850 Diplomat Drive, Dallas, TX 75234 - 972-888-9370, Fax #972-888-9520
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