

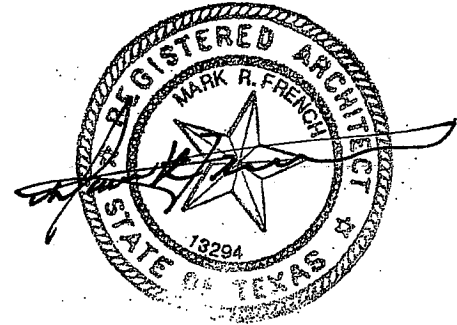


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ADDENDUM NO. 02
 March 30, 2010

Project: **Package F – 2010:** Gleason, Hairgrove and Kirk Elementary School Renovations
 Cypress-Fairbanks Independent School District

Prepared by: Bay Architects, Inc.
 18201 Gulf Freeway
 Webster, Texas 77598
 Post Office Box 891209
 Houston, Texas 77289
 (281) 286-6605



Bay Project No.: 0931 (10-02-2091R-FP)

Prepared for: Prospective Proposers

PART A NOTICE TO PROPOSERS

01. Receipt of this Addendum shall be acknowledged on the Proposal Form. Failure to do so may subject Proposers to disqualification. Each Proposer shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarification, and supplemental data included therein.
02. This Addendum forms part of the Contract Documents and shall be incorporated integrally therewith. Where provisions of the following supplemental data differ from those of previously issued documents, this Addendum shall govern.
03. The following Contract Documents have been issued to date delineating the Work (Project):

Construction Documents	March 16, 2010
Addendum Number 1	March 22, 2010
04. This Addendum consists of ADD2-1 through ADD2-4; Pre-Proposal Agenda / Meeting Minutes (3 pgs) and Sign-in Sheet (1 pg); additional Sheets CB-10 through CB 12; Revised Alternates Proposal Sheets AC-3, AC- 4 and AC-5; Section 17250, page 1 through page 5.

PART B CHANGES TO PRIOR ADDENDA

05. None

PART C CHANGES TO THE PROJECT MANUAL

06. Section AA – Request for Competitive Sealed Proposals
 - a. Add the following:

**PRE-PROPOSAL
 SITE VISIT:**

*Wednesday, March 31, 2010 at 1:00 PM (Hairgrove
 Elementary Lobby)*

07. Section AB – Instructions to Offerors
 a. Article 16, paragraph B: Delete paragraph B in its entirety; Provide as directed in Article 14

08. Section AC (Alternates) – Alternates Proposal Form
 a. Modify Alternate 1 number as shown below:

ALTERNATE NO. 01: CARD ACCESS READERS AT THREE CAMPUSES

3a 1a: Card Access Readers at Gleason Elementary School

Add/Deduct	_____	Dollars\$	_____
	(amount in written words governs)		(amount in figures)

3b 1b: Card Access Reader Wiring Replacement at Hairgrove Elementary School

Add/Deduct	_____	Dollars\$	_____
	(amount in written words governs)		(amount in figures)

3e 1c: Card Access Readers at Kirk Elementary School

Add/Deduct	_____	Dollars\$	_____
	(amount in written words governs)		(amount in figures)

- b. Add Alternate 3 as shown below.

ALTERNATE NO. 3 – ALTERNATE PREVAILING WAGES RATE

<i>Add / Deduct</i>	_____	<i>Dollars \$</i>	_____
<i>(Amount Written in Words Governs)</i>			<i>(Amount in Figures)</i>

09. Section CB – Supplemental Conditions
 a. Page CB-2; Article 8; Item 8.3.5.1 to read as follows:
Under Article 8- TIME, in Section 8.3.5.1 first paragraph – change the date from August 7th to August 6th, 2009 @ 5:00pm: Substantial Completion and omit “of Phase 1”.
 b. Add pages CB-10, CB-11 and CB-12.

10. Section 01010 – Summary of work
 a. Part 2; Item B; Hairgrove Elementary – Delete Installation of generator and emergency lighting, this is not in the scope of work.

11. Section 01030 – Alternates
 a. Add Alternate 3 as shown below.

ALTERNATE NO. 3 – ALTERNATE PREVAILING WAGES RATE

This Alternate shall establish the amount to be added to or deducted from the Base Proposal for the Contractor use the alternate Prevailing Wage Rate as described on pages CB-10 through CB-12.

12. Section 16710 –Lighting Control System
 a. Delete section. No new system required. Retrofit existing lights only.

13. Section 16720 –Sound System
 a. Delete section. No new system required. Remove and reinstall existing speakers to accommodate ceiling changes. All work to be done by a sound system contractor, not general laborers.

14. Section 16740 –Fire Alarm System
 - a. Delete section. No new systems required. Remove and reinstall existing fire alarm devices to accommodate ceiling changes at the various schools. All work to be done by licensed fire alarm contractor.

15. Section 17200 –Alarm Intrusion/Detection System
 - a. Paragraph 1.2 A: Delete Frazier Elementary from this specification. Also provide walk-in cooler freezer monitoring at Hairgrove Elementary.
 - b. Paragraph 1.2 Add B: Under alternate proposal, provide a complete new card access system at Kirk and Gleason Elementary Schools, including control panel, door contacts and card readers per the attached new specification, Section 17250. Also provide push button below reception desk to control lobby double doors as shown on the drawings.
 - c. Paragraph 1.2, Add C.: Under alternate proposal, provide a complete new card access system at Hairgrove Elementary School, including control panel, door contacts and card readers per the attached new specification, Section 17250, except reuse existing card readers and connect to new control panel with new wiring.

16. Section 17250 –Access Control System
 - a. New section, see attached.

PART D

CHANGES TO THE DRAWINGS

“Changes may be indicated on the enclosed 8 1/2 x 11 and/or 11” x 17” sheets.”

17. Sheet E1.0-gl Electrical and Security Floor Plan – Gleason Elementary School
 - a. There are six 20A/1P spare circuit breakers in existing Panel EML can be used for new circuits.
 - b. Combine 120V circuit for card reader in room 711B to 120V circuit for card reader in room 607.
 - c. IDF Room 200: Revise location of future card access control panel and data drop to left wall.
 - d. Add General Note: Contractor shall have data subcontractor to install data cables as shown on the plan. Home run data cables back to existing MDF or IDF. Data cable shall be Cat 6 type.

18. Sheet E1.5-ha Lighting Floor Plan
 - a. Corridor D123: Change two type AA light fixtures to type A light fixtures.

19. Sheet E1.7 ha – Security Floor Plan
 - a. Add note for Access Control Panel:
Existing card readers are not manufactured by AMAG, Contractor shall provide Wiegand interface module "Symmetry (WIM) 8" in new AMAG Access Control Panel.

20. Sheet E3.0-ha Light Fixture Schedule, Electrical Symbols and Notes
 - a. Light Fixture Schedule: Note 1, the last sentence shall be revised from “ Existing ballasts are probably manufactured by Leviton.....” to “ Existing lamp holders are probably manufactured by Leviton.....”.
 - b. Light Fixture Schedule: Add note #5: For all light fixtures to be retrofit, Contractor shall protect all parabolic & acrylic lenses during construction. Also, Contractor shall document parabolic lenses’ condition before starting construction. Submit an RFI to Architect for number of lenses that need to be replaced.
 - c. Add General Note: Contractor shall have data subcontractor to install data cables as shown on the plans. Home run data cables back to existing MDF or IDF. Data cable shall be Cat 6 type.

21. Sheet E1.0-ki Electrical and Security Floor Plan
a. Add General Note: Contractor shall have data subcontractor to install data cables as shown on the plan. Home run data cables back to existing MDF or IDF. Data cable shall be Cat 6 type.

PART E **NEW ISSUED DRAWING SHEETS**
"Add these sheets to the Proposal Documents."

22. None

PART F **RE-ISSUED DRAWING SHEETS**
"Replace these sheets in the Proposal Documents."

23. None

END OF ADDENDUM

PRE-PROPOSAL CONFERENCE AGENDA

PACKAGE 'F' – 2010

Package F – 2010: Gleason, Hairgrove and Kirk
Elementary School Renovations
Cypress Fairbanks ISD Proposal No.: 10-02-2091R-FP

March 23, 2010; 11:00 AM

I. Proposals: Section AA

Proposal Date: Tuesday, April 13, 2010.
Proposal Times: 2:00 pm Base Proposal and 3:00pm Alternate Proposals
Proposal Location: Windfern Administrative Annex
12510 Windfern Rd.
Houston, TX 77064

Project Locations: *Refer to Section AA for Campus addresses:*
Gleason Elementary - 9203 Willowbridge Park Blvd., Houston 77064
Hairgrove Elementary - 7120 N. Eldridge Parkway, Houston 77041
Kirk Elementary - 12421 Tanner Rd., Houston 77041

II. Instructions to Proposers: Section AB

- A. Submit AIA Document A305, Contractor's Prequalification Statement, by 12:00pm, April 1, 2010.
- B. Pre-qualification of sub-contractors and suppliers are as directed in individual spec sections.
- C. Submission of References for Evaluations (AB-9 Exhibit A)
Please check reference phone numbers and contact names before submitting.
Please do not use CFISD projects.
- D. Evaluation of Proposers will be as outlined in Section AB (page 7, Item 19).
- E. For questions during the proposal process please use the form in Section AM.
- F. Any changes arising out of questions requiring interpretation, clarification or correction to the Proposal Documents will be made by Addendum.
Do not make assumptions – what you did on your last project for the Owner or with another Architect may not be desired for this project.

III. Base Proposal Form: Section AC (part I) submitted in duplicate

* Proposals must be "Time Stamped" at the office adjacent to conference

Also to be submitted with proposal:

Section AD – Proposal Bond

Section AE – Felony Conviction Notification

Section AG – Proposal Evaluation Waiver

Section AH – Affidavit of Non-Discriminatory Employment

Section AN – Conflict of Interest Affidavit and printed confirmation of online submittal.

Resumes of Proposal Superintendents and/or Site Superintendents

IV. Alternate Proposal Form: Section AC (part II) submitted in duplicate

* Proposals must be "Time Stamped" at the office adjacent to conference

Also to be submitted with proposal:

Section AD – Proposal Bond

Section AE – Felony Conviction Notification

Section AG – Proposal Evaluation Waiver

Section AH – Affidavit of Non-Discriminatory Employment

Section AN – Conflict of Interest Affidavit and printed confirmation of online submittal.
Resumes of Proposal Superintendents and/or Site Superintendents

V. Submission of Post Proposal Information:

Due April 14, 2010 by 5:00pm (Bay's Office)

- A. A bar-chart construction schedule - including major construction milestone dates.
- B. A statement describing the Offeror's proposed management concept for the Project.
- C. A statement of all Work to be self-performed by the Offeror.
- D. Complete and fully executed Contractor Qualification Statement Form, AIA Document A305, for each of the subcontractors named on the Offeror's Alternate Proposal Form.
- E. A list of subcontractors or others with a principle portion of work (Form AF).

Due within 10 days of the Notice to Proceed (Bay's Office)

- F. A statement of costs for each major item of work.
- G. Certification of Criminal History Record Information (Form AP).
- H. Bonds and Insurance.

Note: Conflict of Interest shall be submitted on-line before proposals are received.

VI. Summary of Work - includes but not limited to:

Gleason Elementary: Place security system on districts network; Provide emergency base stations; Provide additional video cameras and DVR's; Replace toilet Partitions

Hairgrove Elementary: Provide additional video cameras and DVR's; Provide emergency base stations; Place security system on districts network; Replace half of the existing chalk boards w/ MB's; Replace roof intakes; Refurbish cooling tower; Replace air conditioning VFD's; Retrofit lighting with T-8 lamps and ballast; Repaint all parking lot lights; Repaint interior masonry walls; Install Generator and Emergency lighting.

Kirk Elementary: Place security system on districts network; Provide emergency base stations; Provide additional video cameras and DVR's; Replace toilet Partitions

VII. Allowances (Section 01020)

A.	Owners Contingency	\$150,000.00
B.	TDLR Allowance	\$25,000.00
C.	Technology	\$15,000.00
D.	PE Graphics	\$8,000.00

VIII. Alternates (Section 01030)

If the Owner elects to accept any or all of the Alternates, the undersigned agrees to modify the Base Proposal on the alternate proposal form and as stipulated in Section 01030.

ALTERNATE NO. 01: CARD ACCESS READERS AT THREE CAMPUSES

ALTERNATE NO. 02: HOT WATER REHEAT VALVE REPLACEMENT

IX. Construction Schedule (Section 01310)

- A. All work must be substantially completed by August 6, 2010.
- D. Work hours and work days: Work to start June 9th, 2010

X. Temporary Facilities (Section CA)

- A. Field office.
- B. Existing security and CCTV must remain operation at all times.

XI. Special Owner Requirements (Section 01800)

- A. Each person working on site shall have a badge
- B. Asbestos Alert

XII. Miscellaneous Items

- A. Site Visit: *Wednesday, March 31, 2010 at 1:00 pm. We will meet in the Lobby of Hairgrove Elementary - 7120 N. Eldridge Parkway, Houston 77041*

- B. Existing Conditions – ~~Section 01121~~ *Refer to section CA for required system testing*

Prevailing Wage Rate Determination Information

The following information is from Chapter 2258 Texas Government Code:

2258.021. Right to be Paid Prevailing Wage Rates.

- (a) A worker employed on a public work by or on behalf of the state or a political subdivision of the state shall be paid:
 - (1) not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the work is performed; and
 - (2) not less than the general prevailing rate of per diem wages for legal holiday and overtime work.
- (b) Subsection (a) does not apply to maintenance work.
- (c) A worker is employed on a public work for the purposes of this section if the worker is employed by a contractor or subcontractor in the execution of a contract for the public work with the state, a political subdivision of the state, or any officer or public body of the state or a political subdivision of the state.

2258.023. Prevailing Wage Rates to be Paid by Contractor and Subcontractor; Penalty.

- (a) The contractor who is awarded a contract by a public body or a subcontractor of the contractor shall pay not less than the rates determined under Section 2258.022 to a worker employed by it in the execution of the contract.
- (b) A contractor or subcontractor who violates this section shall pay to the state or a political subdivision of the state on whose behalf the contract is made, \$60 for each worker employed for each calendar day or part of the day that the worker is paid less than the wage rates stipulated in the contract. A public body awarding a contract shall specify this penalty in the contract.
- (c) A contractor or subcontractor does not violate this section if a public body awarding a contract does not determine the prevailing wage rates and specify the rates in the contract as provided by Section 2258.022.
- (d) The public body shall use any money collected under this section to offset the costs incurred in the administration of this chapter.
- (e) A municipality is entitled to collect a penalty under this section only if the municipality has a population of more than 10,000.

2258.051. Duty of Public Body to Hear Complaints and Withhold Payment.

A public body awarding a contract, and an agent or officer of the public body, shall:

- (1) take cognizance of complaints of all violations of this chapter committed in the execution of the contract; and
- (2) withhold money forfeited or required to be withheld under this chapter from the payments to the contractor under the contract, except that the public body may not withhold money from other than the final payment without a determination by the public body that there is good cause to believe that the contractor has violated this chapter.

Prevailing Wage Rates

School Construction Trades

Effective - March 2, 2010 through March 1, 2013

Texas Gulf Coast Area

CLASSIFICATION	HOURLY RATE
Bricklayers; Masons	\$18.00
Carpenters/Caseworker	\$15.75
Carpet Layers/Floor Installers	\$18.88
Concrete Finishers	\$15.05
Drywall Installers; Ceiling Installers	\$13.83
Electricians	\$20.96
Elevator Mechanics	\$25.87
Light Equipment Operators	\$12.63
Heavy Equipment Operators	\$18.08
Glaziers	\$17.45
Insulators	\$15.60
Ironworkers	\$18.90
Laborers	\$10.93
Lathers	\$15.03
Millwrights	\$15.40
Painters/Wall Covering Installers	\$13.42
Pipefitters	\$17.83
Plasterers	\$14.86
Plumbers	\$20.29
Roofers	\$13.29
Sheet Metal Workers	\$17.67
Sprinkler Fitters	\$21.50
Terrazzo Workers	\$18.20
Tile Setters	\$17.17
Waterproofers/Caulkers	\$14.79

Prevailing Wage Rates

Worker Classification Definition Sheet

Asbestos Worker	Worker who removes & disposes of asbestos materials.
Carpenter	Worker who builds wood structures or structures of any material which has replaced wood. Includes rough & finish carpentry, hardware and trim.
Carpet Layer/Floor Installer	Worker who installs carpets and/or floor coverings-vinyl tile.
Concrete Finisher	Worker who floats, trowels and finishes concrete.
Data Comm/Telecom Installer	Worker who installs data/telephone & television cable and associated equipment and accessories.
Drywall/Ceiling Installer	Worker who installs metal framed walls & ceilings, drywall coverings, ceiling grids & ceilings.
Electrician	Skilled craftsman who installs or repairs electrical wiring & devices. Includes fire alarm systems & HVAC electrical controls.
Elevator Mechanic	Craftsman skilled in the installation & maintenance of elevators.
Fire Proofing Installer	Worker who sprays or applies fire proofing materials.
Glazier	Worker who installs glass, glazing and glass framing.
Heavy Equipment Operator	Includes, but not limited to, all Cat tractors, all derrick-powered, all power operated cranes, back-hoe, back-filler, power operated shovel, winch truck, all trenching machines.
Insulator	Worker who applies, sprays or installs insulation.
Iron Worker	Skilled craftsman who erects structural steel framing & installs structural concrete Rebar.
Laborer/Helper	Worker qualified for only unskilled or semi-skilled work. Lifting, carrying materials & tools, hauling, digging, clean-up.
Lather/Plasterer	Worker who installs metal framing & lath. Worker who applies plaster to lathing and installs associated accessories.
Light Equipment Operator	Includes, but not limited to, air compressors, truck crane driver, flex plane, building elevator, form grader, concrete mixer (less than 14cf), conveyer.
Mason	Craftsman who works with masonry products, stone, brick, block or any material substituting for those materials & accessories.
Metal Building Assembler	Worker who assembles pre-made metal buildings.
Millwright	Mechanic specializing in the installation of heavy machinery, conveyance, wrenches, dock levelers, hydraulic lifts & align pumps.
Painter/Wall Covering Inst.	Worker who prepares wall surfaces & applies paint and/or wall coverings, tape and bedding.
Pipefitter	Trained worker who installs piping systems, chilled water piping & hot water (boiler) piping, pneumatic tubing controls, chillers, boilers & associated mechanical equipment.
Plumber	Skilled craftsman who installs domestic hot & cold water piping, waste piping, storm system piping, water closets, sinks, urinals, and related work.
Roofer	Worker who installs roofing materials, Bitumen (asphalt & coal tar) felts, flashings, all types roofing membranes & associated products.
Sheet Metal Worker	Worker who installs sheet metal products. Roof metal, flashings & curbs, ductwork, mechanical equipment and associated metals.
Sprinkler Fitter	Worker who installs fire sprinkler systems & fire protection equipment.
Terrazzo Worker	Craftsman who places & finishes Terrazzo.
Tile Setter	Worker who prepares wall and/or floor surfaces & applies ceramic tiles to these surfaces.
Waterproofer/Caulker	Worker who applies water proofing material to buildings. Products include sealant, caulk, sheet membrane, liquid membranes, sprayed, rolled or brushed.

FORM AC
COMPETITIVE SEALED PROPOSAL FORM - ALTERNATE PROPOSALS

Package F – 2010: Gleason, Hairgrove and Kirk Elementary School Renovations
Cypress-Fairbanks Independent School District
Cypress-Fairbanks I.S.D. Proposal Number: 10-02-2091R-FP
Attn: Mr. Roy J. Sprague, Asst. Supt., Facilities Planning and Construction

Submitted by: _____

Date: _____ Phone No.: _____

To: Board of Trustees
Cypress-Fairbanks Independent School District
Windfern Administrative Annex
12510 Windfern Road
Houston, Texas 77064

Having examined Proposal and Contract Documents prepared by Bay Architects, dated March 16, 2010 and having examined site conditions, the undersigned proposes to furnish all labor, equipment and materials and perform all work for the completion of the above-named project for the sum indicated below.

In submitting his Proposal, the undersigned agrees to the following:

1. Hold Proposal open for acceptance sixty (60) days.
2. Accept right of Owner to reject any or all proposals, to waive formalities and to accept proposal which Owner considers most advantageous.
3. Enter into and execute the contract, if awarded, for the Base Proposal and accepted Alternate Proposals.
4. Complete work in accordance with the Contract Documents within the stipulated contract time.
5. By signing, the undersigned affirms that, to the best of his knowledge, the Proposals have been arrived at independently and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over respondents in the award of this proposal.

I. ALTERNATES

If the Owner accepts any or all of the Alternates, the undersigned agrees to modify the Base Proposal as stipulated below:

ALTERNATE NO. 01: CARD ACCESS READERS AT THREE CAMPUSES

1a: Card Access Readers at Gleason Elementary School

Add/Deduct _____	Dollars\$	_____
(amount in written words governs)		(amount in figures)

1b: Card Access Reader Wiring Replacement at Hairgrove Elementary School

Add/Deduct _____	Dollars\$	_____
(amount in written words governs)		(amount in figures)

1c: Card Access Readers at Kirk Elementary School

Add/Deduct _____	Dollars\$	_____
(amount in written words governs)		(amount in figures)

THIS PAGE OF PROPOSAL FORM MUST BE SUBMITTED BY 3:00 PM, April 13, 2010.

ALTERNATE NO. 02: HOT WATER REHEAT VALVE REPLACEMENT

Add/Deduct _____ Dollars\$ _____
(amount in written words governs) (amount in figures)

ALTERNATE NO. 03: ALTERNATE PREVAILING WAGES RATE

Add/Deduct _____ Dollars\$ _____
(amount in written words governs) (amount in figures)

II. UNIT PRICES

If the Owner accepts any or all of the Alternates, the undersigned agrees to add or subtract the following units of work:

UNIT PRICE 1: ELECTRICAL DUPLEX OUTLET

Provide Unit Cost to add/deduct Electrical Duplex Outlet

Add/Deduct per Duplex Outlet _____ Dollars \$ _____ /Duplex Outlet
(Amount Written in Words Governes) (Amount in Figures)

UNIT PRICE 2: DATA DROP OUTLET

Provide Unit Cost to add/deduct Data Drop Outlet

Add/Deduct per Data Outlet _____ Dollars \$ _____ /Data Outlet
(Amount Written in Words Governes) (Amount in Figures)

UNIT PRICE 3: VOICE DROP OUTLET

Provide Unit Cost to add/deduct Voice Drop Outlet

Add/Deduct per Voice Outlet _____ Dollars \$ _____ / Voice Outlet
(Amount Written in Words Governes) (Amount in Figures)

UNIT PRICE 4: FIRE DEVICES

Provide Unit Cost to add/deduct Fire Devices

4a. Smoke Detector	_____	Dollars \$ _____ /occur.
4b. Strobe	_____	Dollars \$ _____ /occur.
4c. Horn	_____	Dollars \$ _____ /occur.
4d. Pull Station (surface)	_____	Dollars \$ _____ /occur.
	(Amount Written in Words Governes)	(Amount in Figures)

UNIT PRICE 5: MARKER BOARD REPLACEMENT

The undersigned agrees to provide and install marker and tack boards at the unit price provided below.

Add/Deduct _____ Dollars \$ _____ /Each Set
(Amount Written in Words Governes) (Amount in Figures)

UNIT PRICE 6: VWC REMOVAL AND REPLACEMENT.

The undersigned agrees to add or delete VWC from an area of wall at the unit price provided below.

Add/Deduct _____ Dollars \$ _____ /Each Area
(Amount Written in Words Governes) (Amount in Figures)

UNIT PRICE 7: PARABOLIC LENS REPLACEMENT

The undersigned agrees to provide and install parabolic lens at the unit price provided below.

Add/Deduct _____ Dollars \$ _____ /each
(Amount Written in Words Governes) (Amount in Figures)

III. LINE ITEM COST

1. DDC Control System for Hairgrove Elementary School

THIS PAGE OF PROPOSAL FORM MUST BE SUBMITTED BY 3:00 PM, April 13, 2010.

Included in the Base Proposal is the following line item cost for the DDC Control System as outlined in the Contract Documents: \$ _____

IV. CONTRACTOR'S PROJECT TEAM MEMBERS

The undersigned proposes the following project team members (include resumes):

Project Manager: _____
Superintendent: _____
Asst. Superintendent(s): _____

V. PROPOSED SUBCONTRACTORS

The undersigned proposes the following subcontractors.

Masonry: _____
Roofing: _____
Plumbing: _____
Mechanical: _____
Electrical: _____
Fire Alarm: _____
Sound System: _____
Floor and Wall Tile: _____

It is understood that the right is reserved by the Owner to reject any or all proposals, or waive any informalities in proposal process.

ATTEST:

Name of Contracting Firm: _____

(Print or Type)

(Secretary, if Proposer is a Corporation)

(Authorized Signature)

(Title)

SEAL:

(If Corporation)

Legal Address: _____

(Print or Type)

Telephone: () _____

(Date)

END OF FORM

THIS PAGE OF PROPOSAL FORM MUST BE SUBMITTED BY 3:00 PM, April 13, 2010.

SECTION 17250 - ACCESS CONTROL SYSTEM

CONDITIONS OF THE CONTRACT AND DIVISION 1, as applicable, apply to this Section.

PART 1- GENERAL

1.1 RELATED WORK

- A. 16000 – Grounding and Bonding
- B. 16000 – Electrical Hangers and Supports
- C. 16000 – Raceway and Boxes

1.2 WORK INCLUDED

- A. This specification section scope of work shall include card reader access interface and all associated wiring at locations shown on the project drawings. Provide and install all materials and devices as designated below.
 - 1. Card Readers
 - 2. Wiring from the card reader to the head end location and all door hardware
 - 3. Connections to electrified door hardware and associated power supplies
 - 4. Preconstruction meeting with Owner's personnel, installing technician and project superintendent.

1.3 CODES AND STANDARDS

The system shall comply with the applicable Codes and Standards as follows:

- A. National Fire Protection Association Standards:
 - 1. NFPA 70 National Electric Code
 - 2. NFPA 72 National Fire Alarm Code
 - 3. NFPA 101 Life Safety Code
- B. Local & State Building Codes
- C. Requirements of Local Authorities having Jurisdiction
- D. Underwriters Laboratory Requirements and Listings for use in Security Alarm Systems.
- E. Requirements of American Disabilities Act (Public law 101-336).
- F. Texas Accessibility Standards (T.A.S.)
- G. State Fire Marshall.
- H. Texas Insurance Code.

1.4 QUALITY ASSURANCE

- A. Contractor Qualifications:
 - 1. The installing contractor shall be the authorized representative of the Access Control Manufacturer to sell, install, and service the proposed manufacturer's equipment. The installing contractor shall have represented the security alarm manufacturer's product for at least two years.
 - 3. The installing contractor shall be licensed by the State of Texas as a security services contractor to design, sell, install, and service security alarm systems.
 - 4. The installing contractor shall provide 24 hour, 365 day per year emergency

- service with factory trained service technicians.
5. The installing contractor shall have personnel on their staff that has been actively engaged in the business of designing, selling, installing, and servicing security alarm systems for at least ten (10) years.
 6. All Contractors must submit to the owner prior to starting any work the factory training certificates for all personnel that will be working on the access control system. No person is allowed to work on the system without proper manufacturer's certification.
 7. The proposing contractor for this system and the installing contractor of this system shall be of the same organization. Absolutely no subcontracting of any portion of this system by the proposing contractor will be allowed.

1.5 SUBMITTALS

- A. The installing contractor and/or equipment supplier shall provide complete and detailed shop drawings and include:
 1. Riser diagrams.
 2. Complete floor plan drawings locating all system devices.
 3. Factory data sheets on each piece of equipment proposed.
 4. Detailed system operational description. Any specification differences and deviations shall be clearly noted and marked.
 5. Complete system bill of material.
 6. Line by line specification review stating compliance or deviation.
- B. All submittal data will be in bound form with Contractor's name, supplier's name, project name, and state security license number adequately identified.

PART 2 - PRODUCTS

2.1 FIELD DEVICES

- A. Card Access Equipment
 1. Access Control equipment shall be AMAG Symmetry M2150 8DBC 8 reader CAB5 kit .
 2. Symmetry M2150 NIC module 10/100 Mbps NIC for Ethernet connection to district network.
 3. Symmetry M2150 power transformer 110v/18vac 150va to power system.
 4. Symmetry wiegand interface module needed if readers are not manufactured by AMAG.
 5. Card readers shall be Symmetry S830 for all mullion installations color shall match mullion.
 6. Card readers shall be Symmetry S820 for all single gang wall switch mounted installations color shall match installation surface.
 - a. Contractor shall provide 500, HID prox cards, 1386 Series for High Schools.
 - b. Contractor shall provide 300, HID prox cards, 1386 Series for Middle Schools.
 - c. Contractor shall provide 200, HID prox cards, 1386 Series for Elementary Schools.

2.2 WIRING

- A. All Access control wiring shall be purple in color and a minimum of 18 AWG on the entire project.
- B. Wire scheme and conductor quantity shall be as required by the manufactures

- specifications. Contractor to provide and install shielded cable as required.
- C. All 120v Power shall be furnished by the Division 16000 contractor. In the event that a division 16000 contractor is not contracted for the project, the system installing contractor shall contract a licensed electrical firm to provide and install all materials required to furnish a complete and operational system.
 - D. All Security Conduit as required for a complete installation of this system shall be furnished by the division 16000 contractor as part of their scope of work. In the event that a division 16000 contractor is not contracted for the project, the system installing contractor shall provide and install all conduit required.
 - E. Coordination with the Division 16000 contractor is the responsibility of the Security Contractor to ensure all conduit is in place for a complete installation.
 - F. All systems shall be connected to a dedicated circuit and on an emergency power source if available.
 - G. Color code of all security intrusion detection system and access control wiring shall be purple in color.

Approved Products:

1. Banana Peel Access Control Cable: Belden #CP6006704 (all access control cable shall be homerun from the card reader locations to the location designated for the future access control system.)
2. Approved Equivalent
The following manufacturer's equivalent cable shall be acceptable. All cable shall be in a banana peel/composite construction, minimum conductor size of 18awg, shielded, and must be purple in color. NO EXCEPTIONS.
 - a. Tappan Wire and Cable
- 3 All cable shall bare the name of the approved manufacturer. NO PRIVATE LABELED CABLE WILL BE ACCEPTED

PART 3- EXECUTION

3.1 INSTALLATION

- A. All wiring shall be in accordance with the National Electrical Code, Local Codes, and article 760 of NFPA Standard 70. All wiring sizes shall conform to recommendations of the equipment manufacturer, and as indicated on the engineered shop drawings.
- B. All wire shall be UL Listed CL2 for limited energy (300V) applications and shall be installed in conduit. Limited energy MPP wire may be run open in return air ceiling plenums provided such wire is UL Listed for such applications and is of the low smoke producing fluorocarbon type and complies with NEC Article 760 if so approved by the local authority having jurisdiction.
- C. No AC wiring or any other wiring shall be run in the same conduit as security alarm wiring.
- D. All wire shall be installed in an approved conduit/raceway system (except where permitted by NEC and the local authority having jurisdiction). Maximum conduit "fill" shall not exceed 40% per NEC.
- E. Minimum conduit size shall be 3/4" EMT. Install conduit per engineered shop drawings.
- F. Systems utilizing open wiring techniques with low smoke plenum cable shall provide conduit in all inaccessible locations, inside concealed walls, all mechanical/electrical rooms, or other areas where wiring might be exposed or subject to damage.
- G. All vertical wiring and all main trunk/riser wiring shall be installed in a complete raceway/conduit system. All riser boxes shall be adequately sized for the number of

conductors transversing the respective box as well as the number of terminations required.

- H. Network Connection Cable: Provide a 4 pair Category 6 data cable from the Master Control Panel to the MDF network rack. Category 6 cable shall be purple in color.
- I. All plenum wiring is to be installed parallel and perpendicular to the building structure. Install wiring tight up against structure for protection. Cable shall be bundled on a maximum of 2'-6" and secured to the structure at a maximum of 5' on center. Bundling and support shall be with plenum rated cable ties.
- J. Contractor is required to provide all mapping and software configuration required to operate system as per manufacturer's recommendations.

3.2 CABLE PATHWAYS

A. Cable Support:

1. All wire not installed inside conduit or a designated cable tray system shall be installed in a dedicated cable support system for the entire run of each cable. Including, but not limited to service loops.
 - a. Approved Cable Support Product:
PANDUIT® Corporation J-MOD™ modular support system (sized appropriately for the number of wires being installed. Reference the manufacturer's specifications for the suggested maximum cables per support size.
2. The approved cable support system shall be attached directly to the building steel at a serviceable height. In the event that the building steel is not 5' of the finished ceiling, the contractor shall provide a dedicated threaded rod extending within 5' of the finished ceiling and mount the J-MOD™ support hook to the treaded rod.
3. J-MOD™ cable support shall be installed at a maximum of 5' on center.
4. All cable installed shall be attached to the J-MOD™ support system with plenum rated Velcro and a plenum rated Velcro tie shall be installed between each J-MOD™ cable support to keep wires neatly bundled throughout the entire run. Tiewraps will only be allowed to be used inside the control panels as required to manage the wires within each type of panel.
5. ABSOLUTELY NO CABLE, NOT INSTALLED IN CONDUIT, WILL BE ALLOWED TO BE ATTACHED DIRECTLY TO THE BUILDING'S STEEL OR SUPPORTED IN ANY OTHER METHOD THAN THAT STATED ABOVE.
6. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES ON THE PROJECT TO INSURE THAT THE PATHWAY OF THIS SYSTEM DOES NOT INTERFERE WITH THE INSTALLATION OF THE OTHER TRADES AND TO PREVENT THE INSTALLED PRODUCT OF OTHER TRADES FROM PUTTING STRAIN ON THE INSTALLED WIRING.

B. Conduit / Raceway:

1. All wire shall be installed in an approved conduit/raceway system (except where permitted by NEC and the local authority having jurisdiction). Maximum conduit "fill" shall not exceed 40% per NEC.
2. Conduit and raceway system shall be installed as specified under the general electrical section of the specifications, and per NEC.
3. Minimum conduit size shall be 3/4" EMT. Install conduit per engineered shop drawings.
4. Systems utilizing open wiring techniques with low smoke plenum cable shall provide conduit in all inaccessible locations, inside concealed walls, all

mechanical/electrical rooms, or other areas where wiring might be exposed or subject to damage.

5. All conduit ends shall have a protective bushing to prevent cable damage. BUSHINGS MUST BE INSTALLED PRIOR TO INSTALLING CABLE. CUTTING BUSHING TO INSTALL AROUND INSTALLED CABLES WILL NOT BE ACCEPTED.

3.3 WARRANTY

- A. All provided and installed infrastructure and devices shall be warranted against defects in materials and workmanship for a period of one (1) year from the date of substantial completion.

END OF SECTION