



ALEDO ISD BOARD MEETING TEMPLATE

MEETING DATE: July 18, 2016

AGENDA ITEM: Consider Approval of the Guaranteed Maximum Price for Phase 1 – Earthwork Package for Elementary School No. 5

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 Elementary School No. 5 Project was included within the new construction component of the District's successful 2015 Bond Election.
- At the September 21, 2015 board meeting, the Board of Trustees approved Construction Manager At-Risk (CMAR) as the procurement method to be used for the construction of Elementary School No. 5.
- At the November 16, 2015 board meeting, the Board of Trustees approved Buford-Thompson Company (BTC) as the CMAR for this project.
- At the April 18, 2016 board meeting, the Board of Trustees approved the final design and exterior elevation for Elementary School No. 5. These elements were slightly modified at the June 20, 2016 board meeting.

ADMINISTRATIVE CONSIDERATIONS:

- In June 2016, BTC requested bids/proposals from various construction trades for Elementary School No. 5. The bids/proposals were due on July 13, 2016.
- VLK Architects (VLK), BTC, and district staff are continuing to review and analyze the various bids/proposals received to determine best values for this project.
- In order to start the earthwork portion of this project by August 1st, we are presenting to you for consideration this evening the Guaranteed Maximum Price (GMP) for Phase 1 – Earthwork Package.
- Following is a working draft of the GMP Amendment to the contract with BTC for Phase 1 – Earthwork Package. Minor points are being finalized between the District, BTC, and Mr. Tom Myers, the District's attorney.
- Representatives of VLK and BTC are available to answer any questions you may have.

FISCAL NOTE:

Costs associated with this construction project will be paid from 2015 bond funds. The GMP for Phase 1 – Earthwork Package for Elementary School No. 5 is \$1,177,381.

ADMINISTRATIVE RECOMMENDATION:

The Administration recommends the Board of Trustees approve the Guaranteed Maximum Price Amendment to the contract with Buford-Thompson Company for Phase 1 – Earthwork Package for Elementary School No. 5 as presented.



Document A133™ – 2009 Exhibit A

Guaranteed Maximum Price Amendment

for the following PROJECT:

(Name and address or location)

Elementary School #5
Walsh Avenue
Walsh Ranch – Quail Valley Phase 1A
Fort Worth, Texas 76008

THE OWNER:

(Name, legal status and address)

Aledo Independent School District
1008 Bailey Ranch Road
Aledo, Texas 76008

THE CONSTRUCTION MANAGER:

(Name, legal status and address)

Buford-Thompson Company
P.O. Box 151829
Fort Worth, Texas 76108

ARTICLE A.1

§ A.1.1 Guaranteed Maximum Price

Pursuant to Section 2.2.6 of the Agreement, the Owner and Construction Manager hereby amend the Agreement to establish a Guaranteed Maximum Price. As agreed by the Owner and Construction Manager, the Guaranteed Maximum Price is an amount that the Contract Sum shall not exceed. The Contract Sum as that term is defined in Article 5.1 of the Agreement consists of the total of the Construction Manager’s Fee plus the Cost of the Work as that term is defined in Article 6 of this Agreement, plus the General Conditions as that term is defined in Article 5.1.4 of the Agreement.

§ A.1.1.1 The Contract Sum is guaranteed by the Construction Manager not to exceed One Million One Hundred Seventy Seven Thousand Three Hundred Eighty One and 00/100 Dollars (\$ 1,177,381.00), for the Phase 1 – Earthwork for the New Elementary School #5 for Aledo Independent School District subject to additions and deductions by Change Order as provided in the Contract Documents. This Guaranteed Maximum Price does not include the cost of any previously approved work or Guaranteed Maximum Prices or Change Orders.

§ A.1.1.2 **Itemized Statement of the Guaranteed Maximum Price.** Provided below is an itemized statement of the Guaranteed Maximum Price organized by trade categories, allowances, contingencies, alternates, the Construction Manager’s Fee, General Conditions, and other items that comprise the Guaranteed Maximum Price.
(Provide below or reference an attachment.)

Reference attached Exhibit B – Itemization of the Guaranteed Maximum Price.

§ A.1.1.3 The Guaranteed Maximum Price is based on the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A201™–2007, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

Init.

(State the numbers or other identification of accepted alternates. If the Contract Documents permit the Owner to accept other alternates subsequent to the execution of this Amendment, attach a schedule of such other alternates showing the amount for each and the date when the amount expires.)

None.

§ A.1.1.4 Allowances included in the Guaranteed Maximum Price, if any:
(Identify allowance and state exclusions, if any, from the allowance price.)

Item	Price (\$0.00)
1. Owner Contingency	\$0.00
2. Construction Manager Contingency	\$25,000.00
3. Temporary Utilities	\$75,000.00
4. Earthwork Material Handling and Import of Additional Material. All Earthwork Fill Material to be provided by Walsh Ranch Development.	\$100,000.00

§ A.1.1.5 Assumptions and Clarifications, if any, on which the Guaranteed Maximum Price is based:

Reference attached Exhibit C – Assumptions and Clarifications.

§ A.1.1.6 The Guaranteed Maximum Price is based upon the following Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
AIA Document A133 – 2009	Standard Form of Agreement Between Owner and Construction Manager as Constructor	June 6, 2016	1-28
AIA Document A201 - 2007	General Conditions of the Contract for Construction	June 6, 2016	1-78

§ A.1.1.7 The Guaranteed Maximum Price is based upon the following Specifications:
(Either list the Specifications here, or refer to an exhibit attached to this Agreement.)

Reference attached Exhibit D – Listing of Specifications
(Table deleted)

§ A.1.1.8 The Guaranteed Maximum Price is based upon the following Drawings:
(Either list the Drawings here, or refer to an exhibit attached to this Agreement.)

Reference attached Exhibit E – Listing of Drawings
(Table deleted)

§ A.1.1.9 The Guaranteed Maximum Price is based upon the following other documents and information:
(List any other documents or information here, or refer to an exhibit attached to this Agreement.)

None.

§ A.1.1.10 The Guaranteed Maximum Price is based on the following Unit Prices:

None.

§ A.1.1.11 The Guaranteed Maximum Price is based on the following costs for trench safety protection:
The GMP does not include a separately identified cost for trench safety. Trench safety (if required) is included in the proposal package for each individual trade.

§ A.1.1.12 The Guaranteed Maximum Price is based on the following costs for special shoring requirements: The GMP does not include a separately identified cost for special shoring. There are no special shoring requirements indicated on the construction drawings.

ARTICLE A.2

§ A.2.1 The date of Substantial Completion established by this Amendment: August 1, 2017.

§ A.2.2 The date of Final Completion shall be thirty (30) days after the date of Substantial Completion established by this Amendment.

OWNER *(Signature)*

CONSTRUCTION MANAGER *(Signature)*

(Printed name and title)

Sammy C. Martin, President
(Printed name and title)

Init.

Additions and Deletions Report for AIA® Document A133™ – 2009 Exhibit A

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 14:25:53 on 07/14/2016.

PAGE 1

Elementary School #5
Walsh Avenue
Walsh Ranch – Quail Valley Phase 1A
Fort Worth, Texas 76008

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Aledo Independent School District
1008 Bailey Ranch Road
Aledo, Texas 76008

...

Buford-Thompson Company
P.O. Box 151829
Fort Worth, Texas 76108

...

Pursuant to Section 2.2.6 of the Agreement, the Owner and Construction Manager hereby amend the Agreement to establish a Guaranteed Maximum Price. As agreed by the Owner and Construction Manager, the Guaranteed Maximum Price is an amount that the Contract Sum shall not exceed. The Contract Sum as that term is defined in Article 5.1 of the Agreement consists of the total of the Construction Manager's Fee plus the Cost of the Work, Work as that term is defined in Article 6 of this Agreement, plus the General Conditions as that term is defined in Article 5.1.4 of the Agreement.

§ A.1.1.1 The Contract Sum is guaranteed by the Construction Manager not to exceed (\$—), One Million One Hundred Seventy Seven Thousand Three Hundred Eighty One and 00/100 Dollars (\$ 1,177,381.00), for the Phase 1 – Earthwork for the New Elementary School #5 for Aledo Independent School District subject to additions and deductions by Change Order as provided in the Contract Documents. This Guaranteed Maximum Price does not include the cost of any previously approved work or Guaranteed Maximum Prices or Change Orders.

§ A.1.1.2 Itemized Statement of the Guaranteed Maximum Price. Provided below is an itemized statement of the Guaranteed Maximum Price organized by trade categories, allowances, contingencies, alternates, the Construction Manager's Fee, General Conditions, and other items that comprise the Guaranteed Maximum Price.

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Reference attached Exhibit B – Itemization of the Guaranteed Maximum Price.

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User Notes:

(1399009880)

None.

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1. <u>Owner Contingency</u>	<u>\$0.00</u>
2. <u>Construction Manager Contingency</u>	<u>\$25,000.00</u>
3. <u>Temporary Utilities</u>	<u>\$75,000.00</u>
4. <u>Earthwork Material Handling and Import of Additional Material. All Earthwork Fill Material to be provided by Walsh Ranch Development.</u>	<u>\$100,000.00</u>

§ A.1.1.5 Assumptions, Assumptions and Clarifications, if any, on which the Guaranteed Maximum Price is based:

Reference attached Exhibit C – Assumptions and Clarifications.

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<u>AIA Document A133 – 2009</u>	<u>Standard Form of Agreement Between Owner and Construction Manager as Constructor</u>	<u>June 6, 2016</u>	<u>1-28</u>
<u>AIA Document A201 - 2007</u>	<u>General Conditions of the Contract for Construction</u>	<u>June 6, 2016</u>	<u>1-78</u>

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Reference attached Exhibit D – Listing of Specifications

<u>Section</u>	<u>Title</u>	<u>Date</u>	<u>Pages</u>
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Reference attached Exhibit E – Listing of Drawings

<u>Number</u>	<u>Title</u>	<u>Date</u>
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None.

§ A.1.1.10 The Guaranteed Maximum Price is based on the following Unit Prices:

None.

§ A.1.1.11 The Guaranteed Maximum Price is based on the following costs for trench safety protection:

The GMP does not include a separately identified cost for trench safety. Trench safety (if required) is included in the proposal package for each individual trade.

§ A.1.1.12 The Guaranteed Maximum Price is based on the following costs for special shoring requirements: The GMP does not include a separately identified cost for special shoring. There are no special shoring requirements indicated on the construction drawings.

PAGE 3

§ A.2.1 The anticipated date of Substantial Completion established by this Amendment: August 1, 2017.

§ A.2.2 The date of Final Completion shall be thirty (30) days after the date of Substantial Completion established by this Amendment.

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Sammy C. Martin, President

Certification of Document's Authenticity

AIA® Document D401™ – 2003

I, Sammy C. Martin, hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 14:25:53 on 07/14/2016 under Order No. 6438567054_1 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document A133™ – 2009 Exhibit A, Guaranteed Maximum Price Amendment, as published by the AIA in its software, other than those additions and deletions shown in the associated Additions and Deletions Report.

(Signed)

(Title)

(Dated)

Buford-Thompson Company

EXHIBIT B - ITEMIZATION OF THE GUARANTEED MAXIMUM PRICE (Phase 1 - Earthwork)

Project: Aledo Elementary #5
Location: Aledo, TX
Job No.: 135

Bid Date: 13-Jul-16
Revised Date: 14-Jul-16
Total Cost: 1,177,381

Spec. Section	Description			Material	Subcontractor	Total	Proposed Subcontractor/Notes
General Conditions (fixed)							
01-100-10	Project Manager	2	MO	12,567		12,567	
01-102-15	Superintendent	2	MO	18,330		18,330	
01-120-05	Project Office	2	MO	950		950	
01-144-50	Internet/ Telephone/ Fax	2	MO	480		480	
01-155-25	Office Furnishings	2	MO	142		142	
01-155-35	Office Equipment	2	MO	167		167	
Bonds and Insurance							
	General Liability	2	MO	17,939		17,939	
	Builder's Risk	2	MO	8,397		8,397	
	Bonds	2	MO	27,500		27,500	
Division 1 - CoW							
01-105-10	Site Engineering	1	LS	65,000		65,000	
01-150-11	Surveying	1	LS	20,000		20,000	
01-120-06	Deliver and Set-up Project Office	1	LS	2,500		2,500	
01-120-37	Temp Toilets	2	MO	1,600		1,600	
01-120-45	Temp Fence	1	LS	10,000		10,000	
01-120-47	Staging Compound	1	LS	8,000		8,000	
01-146-11	Generator and Fuel	1	LS	12,000		12,000	
01-550-10	SWPPP Permit	1	LS	2,500		2,500	
99-235-20	Construction Manager's Fee	1.5%		17,661	0	17,661	
Contingencies / Allowances							
01-930-01	Owner's Contingency			0	0	0	
01-930-02	Construction Manager's Contingency			25,000	0	25,000	
01-930-03	Temporary Utilities			75,000	0	75,000	
01-930-04	Earthwork Material/Handling Allowance			100,000	0	100,000	
31-100-00	Package 31A - Earthwork			0	751,648	751,648	RPMx Construction
	Site Preparation						
	Earthwork						
	Building Subgrade Preparation						
	Lime Stabilized Subgrade						
Construction Costs				425,733	751,648	1,177,381	

EXHIBIT C – ASSUMPTIONS AND CLARIFICATIONS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT

1.	Tap fees, meter fees, activation fees, and impact fees are not included in the GMP.
2.	The GMP includes a Construction Contingency for the use by the Construction Manager as defined in Article 2.2.4 of the A133 Contract in the amount of \$25,000. This Phase 1 GMP does not include the “Construction Contingency” nor the “Owner Contingency” further identified in Article 2.2.4.
3.	The GMP includes an allowance of \$75,000 to provide utilities (water) to the site during the earthwork operations. Water utility service has not been extended near the site by the developer yet, and the nearest water source is approximately one mile from the site.
4.	The GMP includes an allowance of \$100,000 for additional costs associated with the moving, material handling, processing, additional import, or other expenses incurred as the result of using the material stockpiled by the developer. The developer will be required to have the necessary fill material stockpiled directly adjacent to our site, accessible with off road vehicles for use in preparing the site. The GMP does not included special processing of the material nor any off-site import of material.
5.	The GMP does not include the cost for new utilities to be extended to the site including the electrical service, gas service, or water service. The GMP includes an allowance to obtain water from off-site and the cost to provide temporary power by generator until the developer can provide electrical service.
6.	The GMP does not include the cost for any design fees, such as architectural, MEP, or civil engineering.
7.	The GMP does not include the cost for any plan review fees, building permit fees, TDLR plan review fees, or TDLR inspection fees. The Owner and Architect are responsible for compliance with TAC 19, Chapter 61 and TDLR EAB for plan review and inspections.
8.	The GMP does not included the cost for any FFE (furniture, fixtures and equipment)

**EXHIBIT D – LISTING OF SPECIFICATIONS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

Specifications sections dated May 31, 2016 consisting of:

TABLE OF CONTENTS

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

PROCUREMENT REQUIREMENTS

Buford-Thompson Company Documents:

- Request for Competitive Proposals
- Instructions to Proposers
- Special Conditions for Subcontractors
- Subcontractor's Qualification Statement
- Grading Criteria for Evaluation of Proposals
- Insurance Memo
- Sample Insurance Certificate
- Sample Payment Bond
- Sample Performance Bond

Document 00 31 32 - Geotechnical Data

DIVISION 01 - GENERAL REQUIREMENTS

- 01 11 00 Summary of Work
- 01 14 00 Allowances
- 01 22 00 Unit Prices
- 01 23 00 Alternates
- 01 29 00 Payment Procedures
- 01 31 00 Project Management and Coordination
- 01 31 19 Project Meetings
- 01 31 19.13 Preconstruction Meetings
- 01 32 16 Construction Process Schedules
- 01 33 23 Shop Drawings, Product Data, and Samples
- 01 41 00 Regulatory Requirements
- 01 42 00 References
- 01 42 16 Definitions
- 01 45 00 Quality Control
- 01 45 23 Testing and Inspection Services
- 01 50 00 Temporary Facilities and Controls
- 01 57 23 Temporary Storm Water Pollution Control
- 01 62 00 Product Options
- 01 65 00 Product Delivery Options
- 01 66 00 Product Storage Handling Requirements
- 01 73 29 Cutting and Patching
- 01 74 13 Cleaning
- 01 77 00 Closeout Procedures
- 01 78 23 Operation and Maintenance Data
- 01 78 30 Warranties and Bonds
- 01 79 39 Project Record Documents
- 01 78 40 Spare Parts, Overages and Maintenance Materials

**EXHIBIT D – LISTING OF SPECIFICATIONS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

DIVISION 02 - EXISTING CONDITIONS

NONE IN THIS PROJECT

DIVISION 03 – CONCRETE

03 10 00 Concrete Forming and Accessories
03 20 00 Concrete Reinforcing
03 30 00 Cast-In-Place Concrete

DIVISION 04 – MASONRY

04 20 00 Masonry Units
04 72 00 Cast Stone Masonry
01 72 00 Manufactured Stone Masonry Veneer

DIVISION 05 – METALS

05 12 00 Structural Steel Framing
05 21 00 Steel Joist Framing
05 31 00 Steel Decking
05 40 00 Cold-formed Metal Framing
05 50 00 Metal Fabrications

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

06 10 00 Rough Carpentry
06 40 00 Architectural Woodwork

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

07 11 00 Dampproofing
07 11 19 Sheet Dampproofing
07 13 26 Self-Adhering Sheet Waterproofing
07 14 00 Fluid-Applied Waterproofing
07 18 13 Pedestrian Traffic Coating
07 19 00 Water Repellents
07 21 00 Building Insulation
07 21 29 Sprayed Insulation
07 26 00 Vapor Retarders
07 27 00 Air Barriers
07 41 20 Prefinished Metal Roof Panels
07 42 13 Metal Wall Panels
07 51 00 Built-Up Bituminous Roofing
07 62 00 Sheet Metal Flashing and Trim
07 72 13 Manufactured Roof Curbs and Portals
07 72 33 Roof Hatches
07 81 16 Cementitious Fireproofing
07 84 00 Firestopping
07 92 00 Joint Sealants
07 95 13 Expansion Joint Cover Assembly

**EXHIBIT D – LISTING OF SPECIFICATIONS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

DIVISION 08 – OPENINGS

08 11 00	Hollow Metal Doors and Frames
08 14 23	Plastic-Laminate-Faced Wood Doors
08 31 00	Access Doors
08 33 13	Coiling Counter Door
08 33 26	Overhead Coiling Grilles
08 36 13	Sectional Doors
08 41 13	Aluminum-Frames Entrances and Storefronts
08 80 00	Glazing
08 88 00	Special Function Glazing (<i>Added per Addendum No. 1</i>)
08 91 00	Louvers

DIVISION 09 – FINISHES

09 21 16	Gypsum Board Assemblies
09 30 13	Ceramic Tiling
09 30 16	Quarry Tiling
09 51 00	Acoustical Ceilings
09 54 23	Linear Metal Ceilings
09 64 29	Wood Strip Flooring
09 65 00	Resilient Flooring
09 66 16	Precast Terrazzo Stairs
09 66 23.16	Epoxy-Resin Terrazzo Flooring
09 67 23	Resinous Flooring
09 68 13	Tile Carpeting
09 72 16	Vinyl-Coated Fabric Wall Covering
09 72 19	Fabric Wall Covering
09 77 00	Dry Erase Wall Covering
09 84 13	Fixed Sound-Absorptive/Sound-Reflected Panels
09 91 00	Painting
09 99 00	Color Schedule

DIVISION 10 – SPECIALTIES

10 11 16	Markerboards and Tackboards
10 12 00	Display Cases
10 14 00	Identifying Devices
10 21 15	Plastic Toilet Compartments
10 21 23	Cubicle Curtains
10 22 39	Folding Panel Partitions
10 26 13	Corner Guards
10 28 00	Toilet Accessories
10 44 13	Fire Extinguishers and Cabinets
10 51 00	Lockers
10 56 26	Mobile Storage Systems
10 71 13	Exterior Sun Control Devices
10 73 26	Prefabricated Walkway Covers
10 75 00	Flagpoles
10 99 00	Miscellaneous Specialties

**EXHIBIT D – LISTING OF SPECIFICATIONS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

DIVISION 11 – EQUIPMENT

11 31 00 Appliances
11 40 00 Food Service Equipment
11 61 00 Stage Curtains
11 66 00 Athletic Equipment

DIVISION 12 – FURNISHINGS

12 21 13 Horizontal Blinds
12 24 13 Roller Window Shades
12 32 16 Manufactured Plastic-Laminate-Clad Casework
12 48 13 Entrance Floor Mats
12 66 13 Telescoping and Fixed Bleachers
12 93 00 Site Furnishings

DIVISION 13 – SPECIAL CONSTRUCTION

NONE IN THIS PROJECT

DIVISION 14 – CONVEYING EQUIPMENT

14 24 00 Hydraulic Elevators
14 41 00 Overhead Barrier-Free Lift
14 42 00 Wheelchair Lifts
14 45 00 Vehicle Lifts
14 63 00 Top Running Overhead Cranes
14 63 50 Underhung Cranes and Monorail Systems
14 65 00 Jib Cranes

DIVISION 15 through 20 – Not used.

DIVISION 21 – FIRE SUPPRESSION

21 00 00 Fire Suppression
21 05 00 Common Work Results for Fire Suppression
21 13 00 Combine Wet-Pipe Fire Sprinkler and Standpipe System

DIVISION 22 – PLUMBING

22 00 00 Plumbing
22 05 00 Common Work Results for Plumbing
22 05 53 Identification for Plumbing Equipment and Piping
22 07 00 Plumbing Insulation
22 11 16 Domestic Water Piping System
22 11 23 Common Work Results for Plumbing
22 13 16 Sanitary Waste and Vent System
22 13 39 Elevator Sump Pump
22 14 00 Storm Drainage System
22 21 13 Plumbing Piping Systems
22 30 00 Domestic Water Heating Equipment and Accessories
22 42 00 Plumbing Fixtures

**EXHIBIT D – LISTING OF SPECIFICATIONS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING

- 23 00 00 Heating, Ventilation, and Air Conditioning (HVAC) Work
- 23 05 00 Common Work Results for HVAC
- 23 05 13 Common Motor Requirements for HVAC
- 23 05 14 Common Motor Starter Requirements for HVAC Equipment
- 23 05 15 Common Variable Frequency Motor Controller Requirements for HVAC Equipment
- 23 05 48 Vibration and Seismic Controls for HVAC Piping and Equipment
- 23 05 53 Identification for HVAC Ductwork, Equipment and Piping
- 23 05 93 Testing, Adjusting, and Balancing (TAB) for HVAC
- 23 07 00 HVAC Insulation
- 23 09 00 Instrumentation and Controls
- 23 21 13 Hydronic Piping
- 23 21 14 Ground-Loop Heat-Pump Piping
- 23 21 23 Hydronic Pumps
- 23 30 00 HVAC Air Distribution
- 23 34 00 Exhaust and Supply Air Fans
- 23 55 00 Fuel Fired Heaters
- 23 72 19 Fixed Plate Air-to-Air Energy Recovery Equipment
- 23 81 46 Water Source Unitary Heat Pumps (Vertical Indoor)
- 23 81 49 Water to Water Course Heat Pumps (Reverse Cycle Chillers and Low Temp Boilers (Nominal 2-6 Ton Capacity))
- 23 82 46 Unit Heaters - Electric

DIVISION 24 and 25 – Not Used.

DIVISION 26 – ELECTRICAL

- 26 00 00 Electrical
- 26 05 19 Low Voltage Electrical Power Conductors and Cables
- 26 05 20 Cable Connections
- 26 05 23 Control Voltage Electrical Power Cables
- 26 05 26 Grounding and Bonding for Electrical Systems
- 26 05 29 Hangers and Supports for Electrical Systems
- 26 05 32 Raceways
- 26 05 33 Boxes for Electrical Systems
- 26 05 53 Identification for Electrical Systems
- 26 09 00 Instrumentation and Control for Electrical System** *(Added per Addendum No. 1)*
- ~~26 09 26 Occupancy Sensor Lighting Controls System~~ *(Deleted per Addendum No. 3)*
- 26 21 01 Low Voltage Electrical Power Systems
- 26 22 13 Low Voltage Distribution Transformers
- 26 24 13 Circuit Breaker Distribution Switchboards
- 26 24 16 Panelboards
- 26 27 16 Electrical Cabinets and Enclosures
- 26 27 26 Wiring Devices
- 26 28 13 Fuses
- 26 28 16 Enclosed Switches and Circuit Breakers
- ~~26 31 01 Photovoltaic System~~ *(Deleted per Addendum No. 3)*
- 26 43 13 Surge Suppression Devices for Low Voltage Electrical Power Circuit
- 26 51 00 Lighting

DIVISION 27 – COMMUNICATIONS

- 27 00 00 General Technology Requirements
- 27 10 00 Communications Cabling General Requirements

**EXHIBIT D – LISTING OF SPECIFICATIONS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

27 10 05 Grounding and Bonding for Technology Systems
27 11 00 Communications Equipment Rooms
27 13 00 Communications Backbone Cabling
27 15 00 Communications Horizontal Cabling
27 16 00 Communications Connecting Cords
27 18 00 Communications Labeling and Identification
27 40 00 AV-Multimedia General Requirements
27 41 14 Campus Communication System
27 41 18 Campus Multimedia Systems
27 41 50 Local Sound Systems
27 51 16 Integrated Intercommunications System with Local Sound Systems for Gym and Cafetorium
27 60 00 Physical Security General Requirements
27 62 00 Video Surveillance System
27 64 00 Electronic Access Control System

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

28 13 00 Fire Detection and Alarm

DIVISION 29 and 30 – Not used.

DIVISION 31 – EARTHWORK

31 23 00 Earthwork
31 10 00 Site Clearing
31 23 33 Trenching and Backfilling
31 32 00 Soil Stabilization

DIVISION 32 – EXTERIOR IMPROVEMENTS

32 13 13 Concrete Paving
32 17 23 Pavement Markings
32 19 00 Walk, Road and Parking Appurtenances
32 31 19 Decorative Metal Fences & Gates
32 32 23 Modular Retaining Wall

DIVISION 33 – UTILITIES

33 10 00 Water Utilities
33 30 00 Sanitary Sewerage Utilities
33 40 00 Storm Drainage Utilities

DIVISION 34 through 49 – Not used.

ADDENDUM NO. 1 DATED JUNE 7, 2016

ADDENDUM NO. 2 DATED JUNE 14, 2016

ADDENDUM NO. 3 DATED JUNE 21, 2016 *(Revised per Addendum No. 4)*

ADDENDUM NO. 4 DATED JUNE 22, 2016

ADDENDUM NO. 5 DATED JULY 06, 2016

ADDENDUM NO. 4 DATED JULY 08, 2016

**EXHIBIT E – LISTING OF DRAWINGS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

LIST OF DRAWING SHEETS DATED MAY 31, 2016

CIVIL

C1.01	Topographic Plan
C1.02	Final Plat
C1.03	Overall Site Plan
C1.04	Site Plan West
C1.05	Site Plan East
C1.06	Overall Dimensional Control Plan
C1.07	Dimensional Control Plan West
C1.08	Dimensional Control Plan East
C1.09	Overall Grading Plan
C1.10	Grading Plan West
C1.11	Grading Plan East
C1.12	Wall Grading Inset
C1.13	Underfloor Grading & Storm Drain
C1.14	Drive Profile A
C1.15	Drive Profile B & C
C1.16	Drainage Area Map
C1.17	Overall Storm Drain Plan
C1.18	Storm Drain West
C1.19	Storm Drain East
C1.20	Storm Drain Profile Line 'A' & 'B'
C1.21	Storm Drain Profile Line 'C'
C1.22	Overall Water & Sanitary Sewer
C1.23	Sanitary Sewer and Water Plan
C1.24	Sanitary Sewer Profile
C1.25	Overall Paving Plan
C1.26	Paving Plan West
C1.27	Paving Plan East
C1.28	Erosion Control Plan
C1.29	Site Details
C1.30	Site Details
C1.31	Paving Details
C1.32	Storm Frain Details
C1.33	Sanitary Sewer Details
C1.34	Water Details
C2.00	Wall Layout
C2.01	Retaining Wall 'A-1'
C2.02	Retaining Wall 'A-2'
C2.03	Retaining Wall 'A-3'
C2.04	Retaining Wall 'A-4'
C2.05	Retaining Wall 'A-5'
C2.06	Retaining Wall 'A-6' & 'A-7'
C2.07	Retaining Wall 'A-8'
C2.08	Retaining Wall 'B-1 & B-2'
C2.09	Retaining Wall B-3
C2.10	Retaining Wall C-3
C2.11	Wall Details
C2.12	Wall Details
C2.13	Retaining Wall Details
C2.14	Structural Details

**EXHIBIT E – LISTING OF DRAWINGS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

ARCHITECTURAL SITE

A0.01	Overall Site Plan
A1.10	Design Criteria
A2.01	Floor Plan Lower Level Unit ‘A’
A2.02	Floor Plan Upper Level Unit ‘A’
A2.03	Floor Plan Upper Level Unit ‘B’
A2.04	Floor Plan Upper Level Unit ‘C’
A2.05	Mechanical Mezzanine Clerestory Plans
A2.06	Room Finish Schedule Details
A2.07	Enlarged Toilet Plans
A2.08	Enlarged Toilet Plans Partition Types
A2.09	Enlarged Stair Plans Typical Details
A2.10	Plan Details
A2.11	Plan Details
A2.12	Plan Details
A2.13	Dimensional Plan Unit A Upper Level plan Details
A2.14	Dimensional Plan Unit A Lower Level
A2.15	Dimensional Plan Unit A Upper Level
A3.01	Exterior Elevations
A3.02	Exterior Elevations
A3.03	Exterior Elevations
A3.04	Exterior Details Special Brick Shapes
A3.05	Interior Elevations
A3.06	Interior Elevations
A3.07	Interior Elevations
A3.08	Interior Elevations
A3.09	Interior Elevations
A3.10	Interior Elevations
A3.11	Interior Elevations
A3.12	Interior Elevations
A3.13	Interior Elevations
A3.14	Interior Elevations Details
A3.15	Interior Elevations Details
A4.02	Building Sections
A4.03	Wall Sections and Details
A4.04	Wall Sections and Details
A4.05	Wall Sections and Details
A4.06	Wall Sections and Details
A4.07	Wall Sections and Details
A4.08	Wall Sections and Details
A4.09	Wall Sections and Details
A4.10	Wall Sections and Details
A4.11	Wall Sections and Details
A4.12	Wall Sections and Details
A4.13	Wall Sections and Details
A4.14	Wall Sections and Details
A4.15	Wall Sections and Details
A4.16	Elevator Sections and Details
A4.17	Elevator Sections and Details
A4.18	Wall Sections and Details
A4.19	Wall Sections and Details
A4.20	Elevator Sections and Details
A5.01	Roof Plan
A5.03	Roof Details

**EXHIBIT E – LISTING OF DRAWINGS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

A6.01	Reflected Ceiling Plan Lower Level Unit ‘A’
A6.02	Reflected Ceiling Plan Upper Level Unit ‘A’
A6.03	Reflected Ceiling Plan Upper Level Unit ‘B’
A6.04	Reflected Ceiling Plan Upper Level Unit ‘C’
A6.05	Reflected Ceiling Plan Mezzanine Clerestories
A6.06	Reflected Ceiling Plan Details
A6.07	Reflected Ceiling Plan Details
A7.01	Door Schedule Door Types Door Details
A7.02	Door Details
A7.03	Glazed Opening Elevations & Details
A7.04	Storefront Elevations
A7.05	Storefront Elevations
A7.06	Storefront Elevations
A7.07	Storefront Elevations
A7.08	Louwer Elevations and Details
A7.09	Storefront Details
A7.10	Storefront Details
A8.01	Casework Elevations
A8.02	Casework Elevations
A8.03	Casework Elevations & Details
A8.04	Casework Elevations & Details
A8.05	Casework Elevations
A9.01	Floor Pattern Lower Level Unit ‘A’
A9.02	Floor Pattern Upper Level Unit ‘A’
A9.03	Floor Pattern Upper Level Unit ‘B’
A9.04	Floor Pattern Upper Level Unit ‘C’

FOOD SERVICE

FS-100	FS Facility Model
FS-100A	FS Equipment Model
FS-100B	FS Camera View
FS-101	FS Equipment Plan
FS-102	FS Special Conditions/ Mech Plan
FS-103	FS Plumbing Plan
FS-104	FS Electrical Plan
FS-105	FS Elevations
FS-106	FS Sections & Details
FS-107	FS Details
FS-108	FS Details

STRUCTURE

S1.01	General Notes
S2.01	Lower Level Framing Plan – Unit ‘A’
S2.02	Upper Level Framing Plan – Unit ‘A’
S2.03	Upper Level Framing Plan – Unit ‘B’
S2.04	Upper Level Framing Plan – Unit ‘C’
S2.05	Roof Framing Plan – Unit ‘A’
S2.06	Roof Framing Plan – Unit ‘B’
S2.07	Roof Framing Plan – Unit ‘C’ & Mezzanine Framing Plan
S3.01	Typical Concrete Sections
S3.02	Concrete Beam & Slab Schedules, Sections
S3.03	Concrete Sections
S3.04	Concrete Sections

**EXHIBIT E – LISTING OF DRAWINGS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

S3.05	Concrete Sections (<i>Added per Addendum No. 3</i>)
S4.01	Steel Sections
S4.02	Steel Sections
S4.03	Steel Sections
S4.04	Steel Sections
S4.05	Steel Sections
S4.06	Steel Sections
S5.01	Wind Bracing Elevations & Details

MPE

MP1.01	Site Plan – MP
MPE1.02	Roof plan – MPE

MECHANICAL

M0.01	Site Plan – HVAC
M1.01	Floor Plan Lower Level Unit ‘A’ HVAC
M1.02	Floor Plan Upper Level Unit ‘A’ HVAC
M1.03	Floor Plan Upper Level Unit ‘B’ HVAC
M1.04	Floor Plan Upper Level Unit ‘C’ HVAC
M2.01	Floor Plan Lower Level Unit ‘A’ HVAC Piping
M2.02	Floor Plan Upper Level Unit ‘A’ HVAC Piping
M2.03	Floor Plan Lower Level Unit ‘B’ HVAC Piping
M2.04	Floor Plan Lower Level Unit ‘C’ HVAC Piping
M3.01	Kitchen Floor Plan HVAC
M3.02	Enlarged Mechanical Mezzanine Plan HVAC
M3.03	Enlarged Mechanical Plans HVAC
M4.01	HVAC Flow Diagram
M4.02	HVAC Flow Diagram
M5.01	Details – HVAC
M5.02	Details – HVAC
M5.03	Details – HVAC
M6.01	Schedules & Legend
M6.02	Schedules
M6.03	Schedules

FIRE PROTECTION

FP1.01	Upper Level Floor Plane – Fire Protection
FP1.02	Floor Plan – Lower Level – Fire Protection
FP2.01	Details – Fire Protection

PLUMBING

P1.01	Underfloor Plan – Lower Level – Unit ‘A’ – Plumbing
P1.02	Underfloor Plan – Upper Level – Unit ‘B’ – Plumbing
P1.03	Underfloor Plan – Upper Level – Unit ‘C’ – Plumbing
P2.00	Floor Plan – Lower Level – Unit “A” (<i>Replaced per Addendum No. 2</i>)
P2.01	Floor Plan – Upper Level – Unit “A” (<i>Replaced per Addendum No. 2</i>)
P2.02	Floor Plan – Upper Level – Unit ‘B’ – Plumbing
P2.03	Floor Plan – Upper Level – Unit ‘C’ - & Mezz. Plan – Plumbing
P3.01	Kitchen Underfloor Plan – Plumbing
P3.02	Kitchen Floor Plan – Plumbing
P4.01	Plumbing Riders

**EXHIBIT E – LISTING OF DRAWINGS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

P4.02	Plumbing Risers
P5.01	Plumbing Details
P5.02	Plumbing Details
P6.01	Plumbing Schedules and Legend

ELECTRICAL

E1.00	Site Plan – Electrical
E1.01	Floor Plan Lower Level Unit ‘A’ Lighting
E1.02	Floor Plan Upper Level Unit ‘A’ Lighting
E1.03	Floor Plan Upper Level Unit ‘B’ Lighting
E1.04	Floor Plan Upper Level Unit ‘C’ Lighting
E1.05	Crawl Space Lighting
E1.06	Crawl Space Lighting
E1.07	Canopy Plans Lighting
E2.01	Floor Plan Lower Level Unit ‘A’ Power
E2.02	Floor Plan Upper Level Unit ‘A’ Power
E2.03	Floor Plan Upper Level Unit ‘B’ Power
E2.04	Floor Plan Upper Level Unit ‘C’ Power
E3.01	Floor Plan Lower Level Unit ‘A’ Auxiliary Systems
E3.02	Floor Plan Upper Level Unit ‘A’ Auxiliary Systems
E3.03	Floor Plan Upper Level Unit ‘B’ Auxiliary Systems
E3.04	Floor Plan Upper Level Unit ‘C’ Auxiliary Systems
E4.01	Kitchen Plan – Electrical
E4.02	Enlarged Mezzanine Plan Electrical
E5.01	Electrical One Line Diagram
E6.01	Kitchen Plan – Electrical
E6.02	Kitchen Plan – Electrical
E6.03	Lighting Fixture Schedule
E6.04	Stage Lighting One-line Diagram
E7.01	Panel Schedules – Electrical
E7.02	Panel Schedules – Electrical
E7.03	Panel Schedules – Electrical
E7.04	Panel Schedules – Electrical

TECHNOLOGY

T-000	Index Sheet
T-101	Overall Level One
T-102	Overall Lower Level
T-103	Level One Unit A
T-104	Level One Unit B
T-105	Level One Unit C
T-106	Lower Level Unit A
T-500	Enlargements
T-501	Technology Details
T-502	Technology Details
T-503	Technology Details
T-504	Technology Details
T-505	Technology Details
T-506	Technology Details
T-507	Technology Details
T-508	Technology Details
T-509	Technology Details

**EXHIBIT E – LISTING OF DRAWINGS
ALEDO – ELEMENTARY SCHOOL NO. 5
ALEDO INDEPENDENT SCHOOL DISTRICT**

ADDENDUM NO. 1 DATED JUNE 7, 2016
ADDENDUM NO. 2 DATED JUNE 14, 2016
ADDENDUM NO. 3 DATED JUNE 21, 2016 (*Revised per Addendum No. 4*)
ADDENDUM NO. 4 DATED JUNE 22, 2016
ADDENDUM NO. 5 DATED JULY 06, 2016
ADDENDUM NO. 4 DATED JULY 08, 2016