MORE THAN ARCHITECTS

ADDENDUM

NO. 4

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: Hays High School 2025 Additions and Renovations

CLIENT NAME: Hays CISD

LOCATION: Buda, TX

PROJECT NUMBER: 1954-09-01

PROPOSAL DATE: 27 May, 2025

ADDENDUM DATE: 16 May, 2025

For additional information regarding this project, contact Gigi Morgan at 800.687.1229.

THIS ADDENDUM INCLUDES:

Architectural Items	4 Pages
Mechanical Items	12 Pages

AND ALL ATTACHED REVISED SPECIFICATION & DRAWING REFERENCES IN THE ADDENDUM

Huckabee

Project Name: Hays High School 2025 Additions and Renovations
Client: Hays CISD
Buda, TX
Project Number: 1954-09-01

05.16.25

ARCHITECTURAL ITEMS FOR ADDENDUM NO. 4

NOTICE TO PROPOSERS:

A. This Addendum shall be considered part of the contract documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original contract documents, this Addendum shall govern and take precedence.
B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer's proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

AD No 4, Arch Item 1: To the Project Manual, Section 01-2300, "ALTERNATES,"
Section replaced in its entirety to Project Manual

DRAWINGS:

AD No 4, Arch Item 2: To the Drawings, Sheet G1.02, "GENERAL DATA,"

1) Added alternates to reflect updated alternate scope

END OF ARCHITECTURAL ADDENDUM

Huckabee

Project Name: Hays High School 2025 Additions and Renovations
Client: Hays CISD
Buda, TX
Project Number: 1954-09-01

05/16/2025

MECHANICAL ITEMS FOR ADDENDUM NO. 4

NOTICE TO PROPOSERS:

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

AD No 4, Mech Item 1: **To the Project Manual, Section 23 7000, "Mechanical Equipment D-X Systems,"**
To Paragraph 2.01, I: Deleted and replaced with the following:

"I. Manufacturers:

1. Base Bid: Lennox
2. Alternate Bid 1: Trane
3. Alternate Bid 2: Daikin"

To Paragraph 2.02, J: Deleted 1 and 2 and replaced with the following:

"J. Manufacturers:

1. Base Bid: Lennox
2. Alternate Bid 1: Trane
3. Alternate Bid 2: Daikin"

Huckabee

To Paragraph 2.04, M: Deleted and replaced with the following:

"M. Manufacturers:

1. Base Bid: Lennox

2. Alternate Bid 1: Trane

3. Alternate Bid 2: Daikin"

END OF MECHANICAL ADDENDUM

SECTION 01 2300
ALTERNATES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Description of Alternates.

B. Procedures for pricing Alternates.

1.02 RELATED REQUIREMENTS

A. Document 00 2116 - Instructions to Proposers

1.03 PROCEDURES

A. Proposers are required to submit alternate proposals to add work or to deduct work from the base proposal as described below. Failure to submit alternate amounts in spaces provided on proposal form is basis for disqualification of proposal.

B. The successful proposer shall not modify, withdraw or cancel any of the alternate proposals or any part thereof for 45 days after date of receipt of proposals, unless specifically noted otherwise.

C. Contractor shall be responsible for any changes in the work affected by acceptance of these alternates. Include within the alternative proposal prices all costs, including materials, installations, and fees.

D. Claims for additional dollars resulting from changes caused by the alternates will not be allowed.

E. Refer to the drawings and project manual for items of work affected by alternates.

F. Alternates will be exercised at the option of the Owner.

G. Coordinate related work and modify surrounding work as required to complete the Work, including changes under each alternate, when acceptance is designated in the Owner - Contractor Agreement.

1.04 ACCEPTANCE OF ALTERNATES

A. Indicate variation of proposal price for alternates described below and list on the proposal form or any supplement to it, which requests a 'difference' in proposal price by adding to or deducting from the base proposal price or by indicating "No Charge".

B. Indicating "No Bid" as an alternate is unacceptable and is reason for rejection of the proposal.

C. Alternates quoted on Bid / Proposal Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

D. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.05 SCHEDULE OF ALTERNATES

A. Alternate Number 1:
   1. Construction of the Multi-Purpose Athletic Facility as specified and where shown on the drawings.

B. Alternate Number 2:
   1. Add card reader access at classroom, workrooms and other locations as specified and where shown on the drawings. Infrastructure to be in base bid.

C. Alternate Number 3:
   1. Refinish wood stage, facade and floor as specified and where shown on the drawings.

D. Alternate Number 4A:
   1. Provide Control Systems by Climatec Alerton in lieu of Base Bid Automated Logic as specified in Section 23 0900-Controls.

E. Alternate Number 4B:
   1. Provide Control Systems by Johnson Controls in lieu of Base Bid Automated Logic as specified in Section 23 0900-Controls.

F. Alternate Number 5A:
   1. Provide D-X Mechanical Equipment by Trane in lieu of Base Bid Lennox as specified in Section 23 7000-Mechanical Equipment D-X Systems.

G. Alternate Number 5B:
   1. Provide D-X Mechanical Equipment by Daikin in lieu of Base Bid Lennox as specified in Section 23 7000-Mechanical Equipment D-X Systems.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 23 7000 - MECHANICAL EQUIPMENT D - X SYSTEMS

PART 1 – GENERAL

1.01 DESCRIPTION

A. This section describes specific requirements, products, and methods and execution relating to the D-X mechanical equipment for the project.

B. Provide complete operating installation for all systems shown and specified. Air handling unit, indoor coil and condensing unit shall be from single manufacturer.

C. **Reference 20 00 00 for information that must be supplied with submittals for use by Mechanical Contractor and/or Controls Contractor.**

D. **Reference 20 00 00 for warranty requirements.**

E. SPECIAL NOTE: All provisions and divisions of these specifications are a part of this section of these specifications. The Contractor shall consult these divisions and provisions in detail for instructions and include all items pertaining to this work. The Contractor shall consult all other divisions of these specifications, determine the extent of impact on the work required to complete the work required by this section of the specifications or portion thereof and related work shown on the drawings.

F. **Equipment manufacturer/vendor must submit written sequence of operation for all modes of operation for each piece of mechanical equipment with the equipment submittal. Give narrative explaining exactly what control signals are required to activate <u>each</u> mode of a particular unit's operation. Include information about which signals override others internally (when applicable). Submit this information with equipment submittal and provide a copy to the Controls Contractor so it can be integrated into the control scheme and control submittals. Indicate whether 24 VAC, 4-20 MA, 0-10VDC or line voltage is required for controls.**

G. **Provide HVAC equipment with a controls interface that is suitable for connection to a standard conventional thermostat and/or non-proprietary DDC control systems unless it is SPECIFICALLY scheduled otherwise.**

H. Commissioning Requirements:

a. Equipment manufacture representative required to show compliance with code required and Owner required commissioning scope.

b. **Equipment manufacture is required to (related to manufacturer's equipment) provide all information and participate in all meetings required by Equipment Start-Up, Test and Balance, Controls, and Commissioning Specification to ensure HVAC system is function properly, and passes Functional Testing during Commissioning of HVAC System.**

c. **Money will be held until ALL CX activities are addressed and completed.**

PART 2 - PRODUCT

2.01 AIR HANDLING UNIT

A. **Air handler shall be a factory assembled unit, UL listed with fuses or circuit breakers, blower, heaters, steel casing and completely wired. Air handler and coil section may be bolted together in field but must be a mated pair from a single manufacturer.**

B. Cabinet:

1. At least 22 gauge cold rolled steel with baked enamel finish (galvanized finish not acceptable). Interior of cabinet around electric heating elements shall be lined with 1/2 inch thick 1-1/2 lb. density fiberglass insulation. All access panels to be easily removed and reinstalled for service.

2. Insulated stainless steel internal drain pan (factory installed).

C. Blower:

1. Centrifugal type, dynamically and statically balanced.

2. High efficiency direct driven multi-speed blower, factory installed with at least three blower speeds. Provide multistage air volume/single zone VAV airflow for all multistage units.

D. Heaters:

1. Nickel-Chromium Element(s). Element(s) to be sequenced on.

2. Three phase units to have true three phase heating elements or groups of 3-single phase heaters wired to provide a true and inherently balanced three phase electrical load.

3. Each set of heaters shall be equipped with limit control with fixed temperature “OFF” setting and automatic reset with supplemental thermal cut-off safety fuses.

4. Provide air handler with fan time-delay relay, manually reset transformer and complete internal control system.

5. **Provide 208 volt units with fuses or circuit breakers required for overload and short circuit protection.**

6. Stage elements on 1PH units over 8KW.

7. Stage complete banks of elements on 3PH units having 16KW or more. Example, 16KW 3PH heater to have two 8KW 3PH banks of heaters.

E. Furnace:

1. Furnace shall be a factory assembled unit, UL & AGA listed with blower, steel casing, control transformer and completely wired.

2. Die-formed, heavy gauge, cold-rolled steel or aluminized tubular heat exchanger with minimum ten (10) year warranty.

3. Powered forced draft combustion.

4. Spark ignition pilot.

5. Provide with temperature activated fan and limit control.

6. Provide furnace with fan time delay, manually reset transformer and complete internal control system.

7. Cabinet to be at least 22 gauge cold rolled steel with baked enamel finish. Galvanized cabinet not acceptable.

8. Blower compartment to be lined with 1/2“ thick, 1-1/2” lb. density fiberglass insulation.

9. High efficiency direct driven multi-speed blower, factory installed with at least three blower speeds. Provide multistage air volume/single zone VAV airflow for all multistage units.

F. Cooling Coil:

1. Factory leak-tested, dehydrated, sealed and shipped with holding charge.

2. Coil installed in baked on enamel finish insulated casing (unless it is to be installed inside air handlers).

3. Staggered row copper tube, aluminum fins. Aluminum evaporator coils strictly prohibited.

4. Coils to be ARI certified and matched to system.

5. Provide with thermal expansion valve mounted inside AHU cabinet. (Capillary tubes or piston type metering devices are not acceptable).

6. Insulated stainless steel internal drain pan (factory installed).

G. Filter:

1. Provide two inch (2”) thick pleated filter equal to Cam Farr Aeropleat II.

2. Provide two inch (2”) thick mesh grease filter equal to those manufactured by American Air filter for all return air grilles located in Kitchen areas.

3. Install filters at return air filter grilles if system is equipped with them and at AHU when standard non-filtered return grilles are used.

4. Provide suitable insulated filter rack with hinged access door at base (inlet) of unit to house 2” thick filters when filters are to be installed at AHU.

H. Electrical:

1. **All units to be provided with terminal block type connection point for single electrical connection point. Loose wires and wire nut connection points are not acceptable.**

I. Manufacturers:

1. Base Bid: Lennox
2. Alternate Bid 1: Trane
3. Alternate Bid 2: Daikin

2.02 CONDENSING UNITS/HEAT PUMPS

A. Condenser coil shall have copper tubes with aluminum plate fins mechanically bonded.

B. Fans shall be direct driven propeller upflow type.

1. Fan motor thermostatically controlled, permanently lubricated, and designed with permanent protection.
2. Motors shall be resiliently mounted.
3. Each fan shall have a safety guard.

C. Unit shall operate properly in the cooling mode down to a minimum of 55^{O} F, unless otherwise noted on schedule.

D. Each condensing unit shall have one (1) compressor. Compressor shall be of hermetic design with the following features.

1. Crankcase heater (except on scroll compressor).
2. Resilient rubber mounts.
3. Compressor motor overload protection.

E. Controls:

1. Factory wired and located in separate enclosure.
2. High and low pressure cutout and condenser fan motor overload devices.
3. Off-cycle timer to prevent short-cycling of compressor and shall prevent compressor from restarting for 5 minutes if power is interrupted.
4. **Provide factory hard start kits for all single phase units.**
5. All interior units provided with low ambient control for operation down to 30^{o}F.

F. Casing:

1. Fully weatherproof for outdoor installation. Baked-on enamel finish on all exterior surfaces.
2. Openings shall be provided for power and refrigerant connections.
3. Panels shall be removable for servicing.

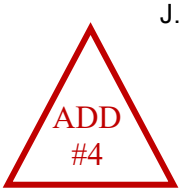
4. Coil guards.

G. Provide externally mounted brass service valves with charging connections.

H. When AHU's/CU's or HP's come to the job site in sections, or when parts are sent for field installation, **all** pieces must be clearly marked as to which unit mark system they go with.

I. Condensing units/heat pump outdoor units to be products of same manufacturer as air handler and coil.

J. Manufacturers:



1. Base Bid: Lennox

2. Alternate Bid 1: Trane

3. Alternate Bid 2: Daikin

2.03 REFRIGERANT SYSTEM

A. Furnish and install refrigeration system complete as a system with all refrigerant, oil, valves, dehydrators, gauges, flex connections and controls as required for proper operation.

B. Refrigerant Piping:

1. Meet requirements of ASTM B 280-83, "Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service," Type "L" or Type "K" only.

2. All refrigerant piping installed outdoors or in accessible spaces shall be hard drawn copper.

3. **Refrigerant piping in inaccessible spaces, such as wall cavities, or in underground sleeves is to be soft drawn copper with no fittings in the inaccessible areas. All bends required are to be made with refrigeration tubing bender.**

4. **Refrigerant piping outdoors to be insulated and be covered with an aluminum jacket with seams located on bottom side of horizontal piping. Jacketing to be neatly installed.**

C. Refrigerant Fittings:

1. Wrought copper with long radius elbows.

2. Approved Manufacturers:

a. Mueller Streamline

b. Engineer approved equal.

D. Suction Line Traps:

1. Manufactured with one (1) 90° short radius elbow and two (2) 45° fittings.

E. Connection Material:

1. For Brazing--

a. Sil-Fos (minimum 10% silver content)

F. Expansion Valves:

1. **Provide thermal expansion valve for each system**.

2. Size valves to provide full rated capacity of cooling coil served.

G. Filter-Drier:

1. On lines 3/4” outside diameter and larger, filter-drier shall be replaceable core type with non-ferrous casing and Schraeder type valve.

2. On lines smaller than 3/4” outside diameter, filter-drier shall be a sealed type using sweat copper fittings.

3. Size shall be full line size and rated for tonnage and refrigerant used.

4. **Liquid line filter driers are required for each unit. However, if liquid line filter drier comes as an integral part of the condensing unit or heat pump outdoor unit, additional filter driers shall not be installed.**

5. External liquid line filter driers for heat pumps must be bi-flow type.

6. Manufacturers: Mueller, Alco or Sporlan.

H. Sight Glass:

1. Combination moisture and liquid indicator with protection cap.

2. Sight glass shall be full size of liquid line.

3. Sight glass connections shall be solid copper or brass.

4. **Required for each system utilizing expansion valve.**

5. Manufacturers: Mueller, Alco or Sporlan.

I. Manual Refrigerant Shut-Off Valve:

1. Ball valves designed for refrigeration service and full line size.

2. Valve shall have cap seals.

3. Valves with hand wheels are not acceptable.

4. Provide service valve on each liquid and suction line at compressor.

5. **If reusable service valves come as integral part of condensing unit, additional service valves shall not be installed.**

6. Manufacturers: Mueller, Superior

2.04 ROOFTOP UNITS

A. General: Single package unit completely factory assembled and tested, including refrigeration, heating, fans, dampers, piping, wiring and control.

B. Cabinet: Heavy gauge galvanized with baked on acrylic enamel, all exterior parts are fully insulated with heavy density fiberglass (1" 3/4 lb.) permanently fastened to panel. Install heavy gauge painted hail guards equal to RSI Model 50-805-Series Hail Guards. **Entire base pan of unit to be insulated.**

C. Filters: Provide two inch (2") thick pleated filters equal to Cam Farr Aeropleat II, minimum MERV 7.

D. Low Ambient Control: Unit shall operate properly in the cooling mode down to a minimum of 25^{O}F, unless otherwise noted on schedule.

E. Refrigeration System: Complete with protection from short cycling of compressor with automatic timing circuit, evaporator and condenser to be copper tube with aluminum fins, refrigerant metering devices, filter driers, crankcase heaters (except on scroll compressors), thermal and overcurrent protection for compressor(s), high and low pressure cutouts. Provide minimum two (2) stages of fully independent cooling on RTU's 7-1/2 tons and over. Where multiple compressors are used, provide one compressor per refrigerant circuit. Insulated stainless steel internal drain pan (factory installed).

F. Heating System: (As scheduled): Indirect type fired with automatic spark ignition and power forced draft combustion. Controls to include pilot valve, combination main gas and pressure regulator, high limit thermostats, flame sensor and automatic relight system. Provide minimum two (2) stages of heat on RTUs of over five (5) tons cooling capacity.

G. Heating System: (As scheduled): UL listed electric resistance heater(s) with open wire Nichrome elements; high temperature limit switch, overcurrent protection; kw, voltage, phase and stages, as specified. Three phase heaters to be true, inherently balanced units.

H. **Provide down discharge units with factory full perimeter curb to match roof slope. Curb to be a minimum of 18" curb, 14" above finish roof surface. Reference curb specification section.**

I. Outdoor Air Intake: All RTU's **scheduled to have raw outside air intake** are to have an outside air intake hood with bee screen and an **Automatic**, 2-position outside air damper that is to operate during occupied periods and closed during unoccupied periods. Damper to have manually adjusted maximum set point. This is a minimum requirement. Check schedule for additional requirements. When economizers are scheduled provide with barometric relief unless fan powered exhaust is scheduled. Economizer, in high humidity weather, to be set at 55 degree drybulb for activation.

J. **Dehumidstat: When unit is equipped with hot gas reheat coil, provide Honeywell Model H600A 1014 dehumidistat. When building has DDC system, unit is to be controlled by DDC sensor with appropriate controllers by Controls Contractor.**

K. Provide direct drive fans with multi-speed taps or belt drive fans with adjustable sheaves. Motors need to be high efficiency. Provide maximum amount of adjustability to match job conditions. Provide multistage air volume/single zone VAV airflow for all multistage units.

L. Provide with single point electrical power connection.

M. Manufacturers:

1. Base Bid: Lennox
2. Alternate Bid 1: Trane
3. Alternate Bid 2: Daikin

2.05 EQUIPMENT SUPPORTS

A. Factory Support:

1. Welded minimum 16 gauge galvanized steel shell, base plate and counter flashing.
2. Factory installed wolmanized 2 x 4 wood nailer.
3. Internal bulkhead reinforcement.
4. **Constructed to match roof pitch.**
5. Minimum height to be 14” above finished roof.
6. Manufacturer: Thycurb Model TEMS-3 or equal.

B. Coordinate other roof supports with Architectural and Structural Drawings:

1. **Roof supports shall be provided and located by Mechanical Contractor. Roof supports shall be installed, flashed and counterflashed by the Roofing Contractor.**

2.06 ROOF CURBS

A. Factory installed wood nailer.

B. Welded galvanized steel shell and base plate. Minimum 18 gauge for fan or hood or hood curbs with top dimension under 48”. Minimum 16 gauge for fan or hood curbs with top dimensions 48” or over. Curbs up to 18” high for RTU’s and single wheel ERV’s to be minimum gauge as recommended by the Manufacturer. Extended height roof curbs (over 18”) and extensions for RTU’s to be minimum gauge as recommended by the Manufacturer. Curbs up to 18” high for Make Up Air Units to be minimum 12 gauge.

C. Extended height curbs (over 18” high) are to have a 12” to 14” curb base section and a curb extension section to facilitate height requirements and proper flashing in by the Roofing Contractor. Pad mounted curbs can be single or two piece.

D. **Constructed to match roof pitch.**

E. Curbs shall be as provided by equipment manufacturer. However, at Contractor’s option, curbs equal to Thycurb Model TC-35F with internal wolmanized 2 x 4 nailer may be used. **Minimum height to be 18” curb, 14 inches above finished roof surface.**

F. **Curb shall be provided and located by the Mechanical Contractor. Curb shall be installed, flashed and counterflashed by the Roofing Contractor.**

PART 3 - INSTALLATION

3.01 Refrigerant piping shall be installed by licensed refrigeration Contractor. Size per Manufacturer's recommendation for length encountered. Size for minimal equipment capacity loss. Submit isometric drawing from the manufacturer indicating routing, sizes and velocity in piping and pressure drop in piping. Provide minimum four inch (4") diameter PVC sleeves as required for each refrigerant line set located under slab and through walls. Use 22-1/2^0 sleeve fittings for all underslab installation. Seal watertight top of PVC sleeves as they penetrate grade.

3.02 LIQUID LINE

A. **Install moisture indicator/sight glass at each condensing unit.**

B. Install properly sized filter-drier "in-line" type at each condensing unit if unit is not supplied with one. If unit is a heat pump, use bi-flow type drier.

C. All valves, driers and indicators to be full line size and have sweat fittings.

D. Maximum pressure drop in line shall be 10 psig. Size per manufacturer's written instructions.

E. **Insulate entire liquid line (indoors and outdoors) on heat pump systems as recommended by the manufacturer.**

3.03 SUCTION LINE

A. Every indoor coil (cooling and heat pump) shall be trapped when vertical rise is more than five feet (5'). When the compressor is below the evaporator, provide a trap in the suction line by coil, raise line to a point above coil and slope suction line down to compressor from that point. The trap shall be made up on one (1) short radius 90^o trap and two (2) 45^o fittings. For heat pumps, all horizontal vapor lines should be level.

B. All rises in suction lines returning to compressor shall be trapped. Use double suction risers where necessary. All risers must maintain a minimum of 1000 fpm and a maximum of 3000 fpm. Line sized for a maximum of 3 psig pressure drop in system. Size per manufacturer's written instructions.

C. Insulate all suction lines, including the thermal bulb, from the thermal expansion valve. See insulation section for type and thickness.

3.04 The length of refrigerant line runs shall be kept as short as possible. It is preferred that they not exceed seventy feet (70') in running length, but in no one case should they exceed the cooling equipment manufacturer's recommendations.

3.05 All condensing units/heat pump units shall have neoprene vibration isolation pads mounted under each corner and sized per manufacturer's recommendations.

3.06 Circulate dry nitrogen throughout system during welding or brazing process.

3.07 Test all refrigerant piping and repair all leaks. Pressure test with dry nitrogen; use pressure reducing valve to limit pressure to 150 psig. After testing, evacuate and fully charge system with refrigerant per manufacturer's written instructions. Submit manufacturer's evacuation procedures with submittal.

3.08 General Contractor to provide level concrete pad for all condensing units/heat pump units. Verify actual size with equipment.

3.09 Pack fiberglass insulation and sealing material, such as permagum, around refrigerant lines where they penetrate exterior building envelope.

3.10 VIBRATION ISOLATOR

A. Provide vibration isolation at each air handling unit (AHU) or fan. Vibration isolators are to be rubber in shear type for suspended AHU's and Neoprene pads for floor mounted AHU's up to 5 tons. Isolators are to be sized for actual equipment purchased.

B. Manufacturers: Amber Booth, Vibration Mounting & Controls, Inc. or equal.

3.11 EQUIPMENT SUPPORTS AND ROOF CURBS

A. Curb shall be manufactured in accordance with the National Roofing Contractors Association guidelines for rooftop equipment support.

B. Confirm exact roof curb installation requirements with Architectural flashing details. Coordinate installation requirements with roofing, structural and general contractors. Roof curb to extend above finished roof a minimum of 12", or 8" above highest point of cricket.

C. Roof deck to be cut out only where ducts penetrate roof. Provide 4" of rigid insulation (2 layers of 2" insulation with staggered joints) on roof deck below unit, topped by two layers of 5/8" exterior grade sheathing (densglass) or gypsum roof board (staggered joints) for sound attenuation.

D. Mechanical equipment to be secured to curb as required by code.

E. **High Wind Zones: Contractor shall be responsible for delegated design to secure ALL equipment/assemblies, ground or roof, so that they are secured/restrained per code for High Wind/Hurricane zones per the latest code maps.**

F. In remodel situations, frame out under entire roof curb perimeter and all openings through roof with minimum 3" x 3" x 3/8" angle iron securely welded or bolted to existing structure, prior to cutting roof deck.

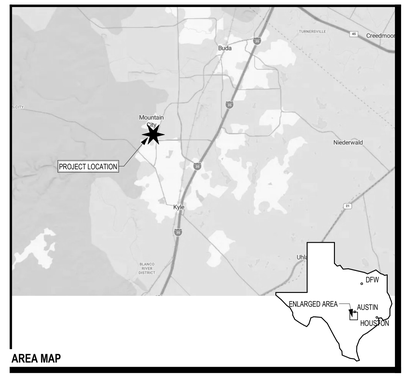
G. Roof curbs on pre-engineered metal building are to be provided, installed and flashed and counter flashed by Pre-Engineered Metal Building Systems. Coordinate all requirements, dimensions, etc. with Pre-Engineered Metal Building Systems.

END OF SECTION

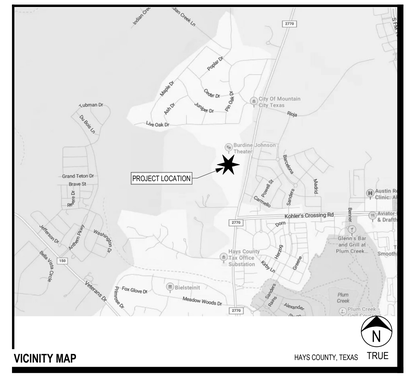
ALTERNATE #1 - CONSTRUCTION OF MPAC BUILDING
ALTERNATE #2 - ADD CARD READERS AT CLASSROOMS/WORKROOMS (INFRASTRUCTURE IN BASE BID)
ALTERNATE #3 - REFINISH EXISTING WOOD STAGE IN CAFETERIA, FACADE AND FLOOR 1
ALTERNATE #4 - MECHANICAL CONTROLS
ALTERNATE #5 - MECHANICAL EQUIPMENT 4

REF SPECIFICATION AND REMAINDER OF CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.

ALTERNATES



AREA MAP



VICINITY MAP

HAYS COUNTY, TEXAS

GENERAL		
G1.01	COVER SHEET	
G1.02	GENERAL DATA	
G2.01	MASTER CODE ANALYSIS PLAN - LEVEL 1	
G2.02	MASTER CODE ANALYSIS PLAN - LEVEL 2	
G2.03	ENLARGED CODE ANALYSIS PLAN - AREA A & B	
G2.04	ENLARGED CODE ANALYSIS PLAN - AREA C (ALTERNATE)	
G3.01	EXTERIOR WALL, ROOF TYPES & INTERIOR PARTITION TYPES	
G3.03	TYPICAL INTERIOR PARTITION DETAILS	
G3.04	TYPICAL INTERIOR PARTITION DETAILS	
G3.05	WALL PENETRATIONS - GYP BD	
G3.06	WALL PENETRATIONS - ACOUSTICAL	
G3.07	WALL PENETRATIONS - CMU	
G4.01	TEA COMPLIANCE	
G5.01	SCHEDULE OF MATERIALS AND COLORS	
CIVIL		
C1.00	GENERAL NOTES	
C2.00	EXISTING CONDITIONS	
C2.01	DEMOLITION PLAN	
C3.00	EROSION CONTROL PLAN PHASE 1	
C3.01	EROSION CONTROL PLAN PHASE 2	
C3.02	EROSION CONTROL PLAN DETAIL (1 OF 2)	
C4.00	OVERALL SITE PLAN	
C4.01	DIMENSION CONTROL PLAN (1 OF 2)	
C4.02	DIMENSION CONTROL PLAN (2 OF 2)	
C5.00	FIRE PROTECTION PLAN	
C6.00	OVERALL GRADING PLAN	
C6.01	GRADING PLAN (1 OF 2)	
C6.02	GRADING PLAN (2 OF 2)	
C6.03	PVR PLAN (1 OF 2)	
C6.04	PVR PLAN (2 OF 2)	
C7.00	OVERALL UTILITY PLAN	
C7.01	UTILITY PLAN (1 OF 2)	
C7.02	UTILITY PLAN (2 OF 2)	
C8.00	OVERALL STORM PLAN	
C8.01	STORM PLAN (1 OF 2)	
C8.02	STORM PLAN (2 OF 2)	
C9.00	EXISTING DRAINAGE AREA MAP	
C9.01	PROPOSED DRAINAGE AREA MAP	
C10.00	NORTH DETENTION POND	
C10.01	SOUTH DETENTION POND	
C11.00	CONSTRUCTION AND PAVING DETAILS	
C11.01	UTILITY DETAILS	
C11.02	MISCELLANEOUS DETAILS	
LANDSCAPE		
LT0.00	OVERALL TREE PROTECTION PLAN	
LT1.00	TREE PROTECTION PLAN (1 OF 2)	
LT1.01	TREE PROTECTION (2 OF 2)	
LT2.00	TREE PROTECTION DETAILS AND TREE SUMMARY	
LT3.00	TREE PROTECTION SPECIFICATIONS	
LP0.00	OVERALL LANDSCAPE PLAN	
LP1.00	LANDSCAPE PLAN (1 OF 2)	
LP1.01	LANDSCAPE PLAN (2 OF 2)	
LP2.00	LANDSCAPE SPECIFICATIONS (1 OF 2)	
LP2.01	LANDSCAPE SPECIFICATIONS (2OF 2)	
LI0.00	OVERALL IRRIGATION PLAN	
LI1.00	IRRIGATION PLAN (1 OF 2)	
LI1.01	IRRIGATION PLAN (2 OF 2)	
LI2.00	IRRIGATION NOTES AND DETAILS	
SPORTS		
F1	SURFACE PLAN BASE BID	
F1.1	SURFACE PLAN - ALTERNATE	
F2	GRADING PLAN BASE BID	
F2.1	GRADING PLAN - ALTERNATE	
F3	UTILITY PLAN	
F4	DETAIL SHEET 1	
ARCHITECTURAL SITE		
AS1.01	ARCHITECTURAL SITE PLAN	
STRUCTURAL		
S1.1	GENERAL NOTES	
S1.2	STATEMENT OF SPECIAL INSPECTIONS	
S1.3	AXONOMETRIC	
S1.4	COMPONENT & CLADDING WIND LOADING	
SD2.0A1	FOUNDATION DEMOLITION PLAN AREA A	
SD2.0A2	ROOF DEMOLITION PLAN AREA A	
S2.1	OVERALL FOUNDATION PLAN	
S2.1A1	FOUNDATION PLAN - AREA A	
S2.1A1S	FOUNDATION PLAN - SAWJOINTS - AREA A	
S2.1A2	ROOF FRAMING PLAN - AREA A	
S2.1B1	FOUNDATION PLAN - AREA B	
S2.1B1S	FOUNDATION PLAN - SAWJOINTS - AREA B	
S2.1B2	LEVEL 2 FRAMING PLAN - AREA B	
S2.1B3	ROOF FRAMING PLAN - AREA B	
S2.1C1	FOUNDATION PLAN - AREA C	
S2.1C2	ROOF FRAMING PLAN - AREA C	
S3.1	TYPICAL CONCRETE DETAILS	
S3.2	TYPICAL CONCRETE DETAILS	
S3.3	CONCRETE DETAILS	
S3.4	CONCRETE DETAILS	
S3.5	CONCRETE DETAILS	
S4.1	TYPICAL MASONRY DETAILS	
S4.2	MASONRY DETAILS	
S4.10	MASONRY WALL ELEVATIONS	
S5.1	TYPICAL STEEL DETAILS	
S5.2	TYPICAL STEEL DETAILS	
S5.3	TYPICAL STEEL DETAILS	
S5.4	STEEL DETAILS	
S5.5	STEEL DETAILS	
S5.10	BRACE ELEVATIONS AND DETAILS	
S5.12	WALL ELEVATIONS	
S5.13	WALL ELEVATIONS	
ARCHITECTURAL		
AD1.00A	DEMOLITION MASTER PLAN	
AD1.01	DEMOLITION FLOOR PLANS	
A1.00A	MASTER FLOOR PLAN - LEVEL 1	
A1.00B	MASTER FLOOR PLAN - LEVEL 2	
A1.1A1	FLOOR PLAN - AREA A - KITCHEN	
A1.1AA1	FLOOR PLAN - AREA AA - DINING	
A1.1B1	FLOOR PLAN - AREA B - LEVEL 1	
A1.1B2	FLOOR PLAN - AREA B - LEVEL 2	
A1.1C1	FLOOR PLAN - AREA C	
A1.20	ENLARGED PLANS - STAIRS, ELEVATOR, VEST	
A1.30	TOILET ACCESSORIES AND PLUMBING FIXTURES	
A1.31	TOILET ROOMS AND COMPARTMENTS	
A1.40	PLAN DETAILS	
A2.1A1	REFLECTED CEILING PLAN - AREA A - LEVEL 1 - KITCHEN	
A2.1AA1	REFLECTED CEILING PLAN - AREA AA - LEVEL 1 - DINING	
A2.1B1	REFLECTED CEILING PLAN - AREA B - LEVEL 1	
A2.1B2	REFLECTED CEILING PLAN - AREA B - LEVEL 2	
A2.1C1	REFLECTED CEILING PLAN - AREA C	
A3.01	DOOR AND SPECIAL OPENING SCHEDULES AND CONFIGURATIONS	
A3.02	STOREFRONT AND CURTAINWALL CONFIGURATIONS	
A3.03	DOOR AND WINDOW DETAILS	
A4.1A1	FINISH PLAN - AREA A - LEVEL 1 - KITCHEN	
A4.1AA1	FINISH PLAN - AREA AA - LEVEL 1 - DINING	
A4.1B1	FINISH PLAN - AREA B - LEVEL 1	
A4.1B2	FINISH PLAN - AREA B - LEVEL 2	
A4.1C1	FINISH PLAN - AREA C - LEVEL 1	
A4.10	INTERIOR ELEVATIONS	
A4.11	INTERIOR ELEVATIONS	
A4.12	INTERIOR ELEVATIONS	
A4.13	TYPICAL INTERIOR DETAILS	
A5.01	EXTERIOR ELEVATIONS - AREAS A & B	
A5.02	EXTERIOR ELEVATIONS- AREA C	
A6.03	WALL SECTIONS - AREA A, C	
A6.04	WALL SECTIONS - AREA B	
A6.06	STAIR & ELEVATOR SECTIONS	
A6.07	RAMP SECTIONS	
A6.10	WALL SECTION DETAILS	
A6.12	WALL SECTIONS - STAIR DETAILS	
A6.14	MOCK UP WALL	
A7.1A	ROOF PLAN - AREA A	
A7.1B	ROOF + CANOPY PLANS + DETAILS - AREA B	
A7.1C	ROOF PLAN - AREA C	
A7.10	TYPICAL ROOFING DETAILS BUILT-UP ROOFING	
A7.11	TYPICAL ROOFING DETAILS BUILT-UP ROOFING	
A7.12	TYPICAL COMMON ROOFING DETAILS	
A7.13	ROOF WALL SECTION DETAILS	
A7.202	OVERALL ROOF PLAN - M&O	
A9.01	RAILING TYPES AND DETAILS	
A9.02	TYPICAL BLDG EJ + MISCELLANEOUS DETAILS	
A9.11	BUILDING SIGNAGE ELEVATIONS+DETAILS	
A9.12	TYPICAL ROOM SIGNS	
MOA1.00	M+O MASTER PLAN	
MOA1.10S	FLOOR PLAN + REFLECTED CEILING PLAN - M+O 10F	
MOA2.01	REFLECTED CEILING PLAN - M+O 10A & 10B	
MOA2.02	REFLECTED CEILING PLAN - M+O 13 & 4A-4B	
MOA7.20	ROOF PLANS - M+O	
MOA7.21	ROOF DETAILS - M+O	
MOA7.22	ROOF DETAILS - M+O	
MOA7.23	ROOF DETAILS - M+O	
FOOD SERVICE		
FS1	FS GENERAL COORDINATION NOTES	
FS1.0	FS OVERALL EQUIP. PLAN	
FS1.1	FS EQUIPMENT PLAN NORTH	
FS1.1.1	FS EQUIPMENT PLAN SOUTH	
FS1.2	FS FACILITY MODEL	
FS1.3	FS EQUIPMENT MODEL	
FS1.4	FS SPECIAL CONDITIONS & MECHANICAL PLAN NORTH	
FS1.4.1	FS SPECIAL CONDITIONS & MECHANICAL PLAN SOUTH	
FS1.5	FS PLUMBING PLAN NORTH	
FS1.5.1	FS PLUMBING PLAN SOUTH	
FS1.6	FS ELECTRICAL PLAN NORTH	
FS1.6.1	FS ELECTRICAL PLAN SOUTH	
FS1.7	FS PLUM./ELEC./SPECIAL DETIALS	
FS1.8	FS EXHAUST HOODS	
FS1.8.1	FS EXHAUST HOOD	
FS1.8.2	FS EXHAUST HOOD	
FS1.9	FS CONDENSING UNITS	
FS1.10	FS WALK-INS	
FS1.11	FS SERVING COUNTERS	
FS1.11.1	FS SERVING COUNTERS	
FS1.12	FS ELEVATIONS	
FS1.13	FS SECTIONS & DETAILS	
FS1.14	FS DETAILS	
FS1.15	FS DETAILS	
PLUMBING		
P0.01	NOTES AND LEGENDS - PLUMBING	
P0.02	NOTES AND LEGENDS - PLUMBING	
P0.10	SCHEDULES - PLUMBING	
P1.10	DETIALS - PLUMBING	
P2.1A1	FIRST FLOOR PLAN - AREA A - PLUMBING - WASTE	
P2.1B1	FIRST FLOOR PLAN - AREA B - PLUMBING - WASTE	
P2.1B2	SECOND FLOOR PLAN - AREA B - PLUMBING - WASTE	
P2.1C1	FIRST FLOOR PLAN - AREA C - PLUMBING	
P3.1A1	FIRST FLOOR PLAN - AREA A - PLUMBING - SUPPLY	
P3.1B1	FIRST FLOOR PLAN - AREA B - PLUMBING - SUPPLY	
P3.1B2	SECOND FLOOR PLAN - AREA B - PLUMBING - SUPPLY	
P4.1A1	ROOF PLAN - AREA A - PLUMBING	
P4.1A2	ROOF PLAN - AREA A & B - PLUMBING	
P4.1B1	ROOF PLAN - AREA B - PLUMBING	
FIRE PROTECTION		
F2.10	FIRE PROTECTION PLAN - FIRST FLOOR	
F2.20	FIRE PROTECTION PLAN - SECOND FLOOR	
MECHANICAL		
M0.01	NOTES AND LEGENDS - MECHANICAL	
M0.02	NOTES AND LEGENDS - MECHANICAL	
M0.10	SCHEDULES - MECHANICAL	
M0.11	SCHEDULES - MECHANICAL	
M1.10	DETAILS - MECHANICAL	
M1.11	DETAILS - MECHANICAL	
M2.1A1	FIRST FLOOR PLAN - AREA A - MECHANICAL	
M2.1B1	FIRST FLOOR PLAN - AREA B - MECHANICAL	
M2.1B2	SECOND FLOOR PLAN - AREA B - MECHANICAL	
M2.1C1	FIRST FLOOR PLAN - AREA C - MECHANICAL	
M4.1A1	ROOF PLAN - AREA A - MECHANICAL	
M4.1B1	ROOF PLAN - AREA B - MECHANICAL	
ELECTRICAL		
E0.01	SCHEDULES, NOTES AND LEGENDS - ELECTRICAL	
E0.10	SCHEDULES - ELECTRICAL	
E0.11	RISER DIAGRAMS - ELECTRICAL	
E0.12	PANEL SCHEDULES - ELECTRICAL	
E0.13	PANEL SCHEDULES - ELECTRICAL	
E1.10	DETAILS - ELECTRICAL	
E1.11	DETAILS - ELECTRICAL	
E2.1A1	FIRST FLOOR PLAN - AREA A - LIGHTING	
E2.1B1	FIRST FLOOR PLAN - AREA B - LIGHTING	
E2.1B2	SECOND FLOOR PLAN - AREA B - LIGHTING	
E2.1C1	FIRST FLOOR PLAN - AREA C - LIGHTING	
E3.1A1	FIRST FLOOR PLAN - AREA A - POWER	
E3.1A2	ENLARGED KITCHEN PLAN - AREA A - POWER	
E3.1B1	FIRST FLOOR PLAN - AREA B - POWER	
E3.1B2	SECOND FLOOR PLAN - AREA B - POWER	
E3.1C1	FIRST FLOOR PLAN - AREA C - POWER	
E4.1A1	ROOF PLAN - AREA A - POWER	
E4.1B1	ROOF PLAN - AREA B - POWER	
ES1.00	SITE PLAN - ELECTRICAL	
MECHANICAL MOA		
MEP1.01	NOTES AND LEGENDS- MECHANICAL	
MEP1.02	SCHEDULES - MECHANICAL	
MEP1.03	DETAILS - MECHANICAL	
MEP1.04	ROO PLAN - MEP - GRAHAM GYM	
MEP1.05	ROOF PLAN - MEP RED GYM & JOHNSON THEATER	
MEP1.06	FLOOR PLAN - MEP BALES GYM DUCTWORK	
MEP1.07	FLOOR PLAN - EXISTING MECHANICAL - SHELTON PRESSBOX	
MEP1.08	FLOOR PLAN - EXISTING MECHANICAL - BALES GYM DUCTWORK	
TECHNOLOGY		
T0.00	TEHCNOLOGY - INDEX SHEET	
T51.01	TECHNOLOGY - SITE PLAN	
T1.00A	TECHNOLOGY - MASTER FLOOR PLAN - LEVEL 1	
T1.00B	TECHNOLOGY - MASTER FLOOR PLAN - LEVEL 2	
T1.1A1	TECHNOLOGY - FLOOR PLAN - AREA A - LEVEL 1 - KITCHEN	
T1.1AA1	TECHNOLOGY - FLOOR PLAN - AREA A - LEVEL 1 - DINING	
T1.1B1	TECHNOLOGY - FLOOR PLAN - AREA B - LEVEL 1	
T1.1B2	TECHNOLOGY - FLOOR PLAN - AREA B - LEVEL 2	
T1.1C1	TECHNOLOGY - FLOOR PLAN - AREA C - LEVEL 1	
T4.00	TECHNOLOGY ENLARGEMENTS	
T5.00	TECHNOLOGY - DETAILS	
T5.01	TECHNOLOGY - DETAILS	
T5.02	TECHNOLOGY - DETAILS	
T6.00	TECHNOLOGY - SECURITY DETAILS	
T6.01	TECHNOLOGY - SECURITY DETAILS	
T7.00	TECHNOLOGY - AV DETAILS	
T7.01	TECHNOLOGY - AV DETAILS	
T7.02	TECHNOLOGY - AV DETAILS	
T7.03	TECHNOLOGY - AV DETAILS	

INDEX OF SHEETS

AB	ANCHOR BOLT
AC	AIR CONDITIONER
ACC	ACCESSIBLE
ACMU	ARCHITECTURAL CONCRETE MASONRY UNIT
ADA	AMERICANS WITH DISABILITIES ACT / ADA STANDARDS FOR ACCESSIBLE DESIGN (LATEST VERSION)
ADDN'L	ADDITIONAL
ADJ	ADJUSTABLE
ADH	ADHESIVE/ADHERE
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	AGRICULTURE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACOUSTICAL PANELS
AP	ASSISTANT PRINCIPAL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B	BEYOND
B/B	BACK TO BACK
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BOD	BOTTOM OF DECK
BOM	BOTTOM OF MASONRY
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BASE, PORCELAIN TILE
BR	BASE, RUBBER
BRES	BASE, RESINOUS INTEGRAL
BRG	BEARING
BRK	BRICK
BRV	BASE, RUBBER VENTED
BTC	BASE, TILE CERAMIC
BTZP	BASE, TERRAZZO PRECAST
BS	BOTH SIDES
BTWN	BETWEEN
BW	BOTH WAYS
BWD	BASE, WOOD
C/C	CENTER TO CENTER
CAB	CABINET
CCD	COILING COUNTER DOOR
CCPS	CERAMIC CLADDING PANEL SYSTEM
CDW	CUSTOM DIGITAL WALLCOVERINGS
CDAP	CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CFMF	COLD-FORMED METAL FRAMING
CH	CHANNEL
CI	CONTINUOUS INSULATION
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTRD	CENTERED
CO	CLEAN OUT/CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONF	CONFIGURATIONS / CONFERENCE
CONN(S)	CONNECTION(S)
CONT	CONTINUOUS
COORD	COORDINATE
COP	CONCRETE (POLISHED)
CORR	CORRIDOR
COS	CONCRETE SEALED
CPT	CARPET, SHEET
CPY	CANOPY
CR	CLASSROOM
CS	CAST STONE
CSM	CONCRETE STONE MASONRY
CU	CONDENSING UNIT
CUST	CUSTODIAN
CT	CARPET, TILED
CTE	CAREER TRAINING ED
CTRL	CONTROL
CW	CURTAIN WALL
CWF	CUSTOM WINDOW FILM
DBL	DOUBLE
DET	DETAIL
DH	DOOR HARDWARE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
EA	EACH
EBWS	EPOXY BASED WALL SYSTEM
ED	EDUCATION
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EPNT	EPOXY PAINT
EQ	EQUAL (EQUALLY)
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTNG	EXTINGUISHER
F/F	FACE TO FACE
FC	FURRING CHANNEL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER (SURFACE MOUNT)
FEC	FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET (SEMI-RECESSED)
FIN	FINISH(ED)
FIN FLR	FINISHED FLOOR
FL	FLUSH (FLUSHED)
FLR	FLOOR
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM FIBERGLASS REINFORCED PANELING
FRT	FIRE RETARDANT TREATED
FRTW	FIRE RETARDANT TREATED WOOD
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRAB BAR / GRADE BEAM
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GRF	GROUND FACE CMU (BURNISHED)
GUT	GUTTER
GYM	GYMNASIUM
GYP	GYPSUM
HB	HOSE BIB
HDWD	HARD WOOD
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING, VENTILATION, & A/C
ICF	INSULATED CONCRETE FORMS / INSULATED CONCRETE FORMING
IDF	INTERMEDIATE DISTRIBUTION FRAME
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
JST(S)	JOIST(S)
L	ANGLE
LAB	LABORATORY
LAV	LAVATORY
LEPC	LOCAL EMERGENCY PLANNING COMMITTEE
LONG	LONGITUDINAL
LVT	LUXURY VINYL TILE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MCM	METAL COMPOSITE MATERIAL
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MEZZ	MEZZANINE
MFG	MANUFACTURER
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MP	METAL WALL PANELS
MPF	MULTI-PURPOSE FACILITY
MSK	MOP SINK
MS	METAL SOFFIT
MSL	MEAN SEA LEVEL
MTL	METAL
NB	NO BASE
NF	NO FINISH
NIC	NOT IN CONTRACT
NO	NUMBER
NS	NATURAL STONE
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANTS / OCCUPANCY
OCEW	ON CENTER EACH WAY
OCD	OVERHEAD COILING DOOR
OCG	OVERHEAD COILING GRILLE
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OHD	OVERHEAD
OPP	OPPOSITE
OS	OVERFLOW SCUPPER
P/C	PRECAST CONCRETE
PEMB	PRE-ENGINEERED METAL BUILDING
PERIM	PERIMETER
PERP	PERPENDICULAR
PLA	PLATE / PLASTER
PL	PLASTIC LAMINATE
PLP	PLASTIC LAMINATE PANEL SYSTEM
PNT	PAINT
PR	PRACTICE ROOM
PREFIN	PREFINISHED
PREP	PREPARATION
PROJ	PROJECTION
PS	PROJECTION SCREEN
PT	POINT
PW	PLYWOOD
QTZ	QUARTZ SURFACING
R	RISER
RAD	RADIUS
RAFF	RESILIENT ATHLETIC FLUID FLOORING
RAFP	RESILIENT ATHLETIC FLOORING POLYURETHANE
RAFS	RUBBER FLOORING SHEET
RAFV	RESILIENT ATHLETIC FLOORING VINYL
L	ANGLE
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
RES	RESINOUS
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RR	RESTROOM
RT	RUBBER TILE
RTR	RUBBER TREADS AND RISERS
RTU	ROOFTOP UNIT
SB	SPLASH BLOCK
SCHED	SCHEDULE
SEC	SECURITY
SECT	SECTION
SF	STOREFRONT / SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SP	SPLASH PAN (METAL)
SPEC	SPECIFICATIONS
SPF	SPLIT-FACE CONCRETE MASONRY UNIT
SPS	SOLID POLYMER SURFACE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURE
SVT	SOLID VINYL TILE
SYMM	SYMMETRICAL
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TAS	TEXAS ACCESSIBILITY STANDARDS (LATEST VERSION)
TB	TACK BOARD
TC	TILE, CERAMIC
TH	THRESHOLD
TLT	TOILET
TOB	TOP OF BEAM
TOC	TOP OF CURB
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOSF	TOP OF METAL STUD FRAMING
TOW	TOP OF WALL
TPC	TILE, PORCELAIN
TQ	TILE, QUARRY
TR	TREATED
TRAN	TRANSVERSE / TRANSPARENT
TRIM	METAL FLASHINGS AND CORNGS
TS	TACKABLE SURFACE
TYP	TYPICAL
TZ	TERRAZZO
TZP	TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT	TERRAZZO TILE
U	URINAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UP	UPHOLSTERY
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VSF	VINYL SHEET FLOORING
W/	WITH
WIN	WITHIN
W/O	WITHOUT
WASH	WASH STATION
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER / WALL HYDRANT
WMP	WOOD (MAPLE) STRIP AND PLANK FLOORING
WMS	MASONITE WOOD FLOORING
WOM	WALK-OFF MAT
WOT	WALK-OFF TILE
WP	WORKPOINT
WT	WEIGHT
WWF	WELDED WIRE MESH (FABRIC)
XB	X-BRACING
>=	LARGER THAN OR EQUAL TO
<=	LESS THAN OR EQUAL TO

(NOT ALL ABBREVIATIONS MAY BE USED)

ABBREVIATIONS

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1	05/07/25 ADDENDUM 01
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Project:

HAYS HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
BUDA, TX

REGISTERED ARCHITECT
JAMES JASON MORRIS
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05.16.25

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