ADDENDUM NO. 01

October 23rd, 2025

To Drawings and Specifications dated October 13, 2025.

LCISD Middle School 8

Lamar Consolidated Independent School District

Prepared by: PBK
1601 Main Street, Suite 104
Richmond, Texas 77469

PBK Project Number: 240541

Notice to Proposers:

A. Receipt of this Addendum shall be acknowledged on the Proposal Form.

B. This Addendum forms part of the Contract documents for the above referenced project and shall be incorporated integrally therewith.

C. Each proposer shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

General:

Item No. 1 **Pre-Bid Agenda** and sign in sheet are included in this addendum for reference.
Item No. 2 All science lab casework shall have a chemical resistant laminate in lieu of epoxy resin.

Specifications:

FRONT ENDS

Item No. 3 **00 11 00 – REQUEST FOR COMPETITIVE SEALED PROPOSALS**
Revised project estimated budget:

EST. BUDGET: ~~$47,000,000.00~~ $46,000,000.00

Item No. 4 **00 20 00 – INSTRUCTIONS TO OFFERORS**
Section 1.1 has been edited:

A. Proposals will be accepted from qualified General Contractors only for the entire scope of work described in the Contract Documents. As a prerequisite to a Contractor's qualifying for the award of contract on this work, the Contractor must complete each item of the Contractor Information and Experience Statement (AIA Document 305™) to be submitted digitally, physical copies to be submitted along side proposal on bid date. The Statement forms may be obtained from the office of the Houston Chapter of the American Institute of Architects (A.I.A.), 315 Capitol, Suite 120; Houston, TX 77002. The Statement and 6 references of similar projects with current/verified phone numbers, email address and current/verified fax numbers for references of Owner and Architect (refer to Exhibit A on page 9), shall be submitted to the Architect by ~~5:00PM CST on Friday, April 11, 2025~~ 12:00PM CST on Friday, October 31,2025. Digital submissions shall be submitted to Gianella Cevallos, Gianella.cevallos@pbk.com on ~~Friday, April 11, 2025.~~ October 31,2025.

ARCHITECTURE

Item No. 5 **05 50 00 – METAL FABRICATIONS**
Replace specification in its entirety.

Item No. 6 **07 41 13 – PREFINISHED METAL ROOFING**
Remove specification in its entirety.

Item No. 7 **08 33 23 – OVERHEAD COILING DOORS**
Remove specification in its entirety.

Item No. 8 **08 44 13 – GLAZED ALUMINUM CURTAIN WALLS**
Section 2.6 has been edited:

A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 ~~Clear anodic~~ Dark Bronze coating not less than 0.7 mils (0.018 mm) thick.

Item No. 9 **08 91 19 – FIXED LOUVERS**
Section 2.2.A.5 has been edited:

a. Free Area: ~~Not less than 7.8 sq. ft. (0.72 sq. m) for 48 inch (1220 mm) wide by 48 inch (1220 mm) high louver.~~ Not less than 40% free area for all high louvers.

Item No. 10 **09 81 00 – ACOUSTIC INSULATION**
Replace specification in its entirety.

Item No. 11 **10 11 00 – VISUAL DISPLAY UNITS**
Section 2.2.A.12. has been edited:

f. Platinum Visual Solutions.

Item No. 12 **10 12 00 – DISPLAY CASES**
Section 2.1.A. has been edited:

4. Platinum Visual Solutions.

Item No. 13 **10 26 00 – WALL AND DOOR PROTECTION**
Section 2.3.A. has been edited:

9. Length: One piece, ~~.80 inches~~ 80 inches (2032 mm).

Item No. 14 **10 51 13 – METAL LOCKERS**
Section 2.2.A. has been edited:

2. ~~Type D: 15 inches W bys 15 inches D by 72 inches H, 2 tier.~~
4. ~~Type G:18 inches W by 21 inches D by 72 inches H, 2 tier.~~
5. ~~Type H: 15 inches W by 15 inches D by 72 inches H, 2 tier.~~

Item No. 15 **10 75 16 – FLAGPOLES**
Section 2.2. has been edited:

I. ~~Pivoting Tilt Base: Steel baseplate with channel or rectangular tube uprights, pivot bolt, and locking device for tilting flagpole. Furnish tilting flagpole with steel counterweight box and weights, or furnish with internal counterweight. Furnish base with anchor bolts.~~
~~1. Finish: Same as flagpole.~~
~~2. Furnish ground spike.~~

Item No. 16 **10 82 13 – EXTERIOR GRILLES AND SCREENS**
Remove specification in its entirety.

Item No. 17 **11 30 13 – RESIDENTIAL APPLIANCES**
Replace specification in its entirety.

Item No. 18 **11 46 83 – ICE MACHINES**

Section 2.2. has been edited:

~~A. Freestanding Ice Machine (Concessions Room):~~
~~1. Basis of Design: Manitoiwoc. Model IYT1200A.~~
~~2. Dimensions: 30 inches wide by 29 1/2 inches high.~~
~~3. Finish: Stainless Steel.~~
~~4. Ice Production: Minimum 1,213 llbs.~~
~~5. Refrigerant: R410A.~~
~~6. Electrical: 208 V x 60 Hz x 1 PH.~~
~~7. Cube Type: Half Dice.~~
~~8. Accessories: Ice scoop and related accessories necessary for a complete installation and use.~~

B. Under-counter Freestanding Ice Machine (Teachers Lounge, Clinic, ~~and training room~~):
1. Basis of Design: Manitowoc, Model UYF-0310A.
2. Ice Type: Half-Dice.
3. Daily Production: 235 pounds.

Item No. 19 **11 53 13 – LABORATORY FUME HOODS**

Remove specification in its entirety.

Item No. 20 **11 57 00 – SHOP EQUIPMENT**

Remove specification in its entirety.

Item No. 21 **12 35 83 – PERFORMING ARTS CASEWORK**

Section 1.2.A has been edited:

~~1. Musical Library System.~~

~~3. Tuba/Sousaphone Wall Bracket~~

Section 2.2. has been edited:

~~A.Music Library System - Standard width 7-shelf unit:~~
~~1. Basis of Design: Model 173G700 manufactured by The Wenger Corporation.~~
~~2. Overall Dimensions:~~
~~a. Closed Position: Refer to Drawings.~~
~~b. Open Position: refer to Drawings.~~
~~3. Pull out design, equally spaced shelves provide 10-1/2 inch of available height per shelf.~~
~~4. Cabinet Doors: Vertical Wire grille.~~
~~5. Frame: 16 gauge, 1 inch square tubular steel, painted black.~~
~~6. Color: Architect to select from Manufactuer's full range.~~
~~C. Tub/Sousaphone Wall Bracket:~~
~~1. Basis of Design: Model #049E100 Tuba/Sousaphone Wall Bracket as manufactured by The Wenger Corporation.~~
~~2. Height: Adjusts from 22-1/2 inch min. to 35 inch max.~~
~~3. Width: Adjusts 13-1/2 inch min. to 22 inch max.~~
~~4. Color: Architect to select from Manufactuer's full range.~~

Item No. 22 **12 66 13 – TELESCOPING BLEACHERS**

Remove specification in its entirety.

Item No. 23 **32 31 19 – DECORATIVE METAL FENCES AND GATES**

Section 2.3.A has been edited:

1. Fence Panels: ~~8 feet~~ 6 feet (1.8 m) high by 6 feet (1.8 m) long.

MECHANICAL

Item No. 24 **23 09 23 – DIRECT DIGITAL CONTROLS**

1. 2.8.S.4 – Add the following "Airflow measurement station shall use an airfoil probe design that produces a difference in pressure between the upper and lower surface. The AMS measures the difference in pressure between the low-pressure and high-pressure side of the airfoil. All critical measurement sensing ports will be located perpendicular to the direction of airflow. Airfoil wing probe shall be constructed natural anodized, aluminum alloy and mounting brackets shall be constructed of stainless steel. Acceptable manufacturer shall be CRC AirFlow WING (AFW)."
2. Add 2.8.U – Ultrasonic Flow Meters.
    a. Ultrasonic flow measurement system shall be a transit time (time of flight) measuring type providing an electronic output signal proportional to the liquid thermal energy and/or flow delivered/utilized in closed systems as may be required. It shall consist of a transmitter, flow transducer set that is either integrally connected or remotely connected by up to 990 feet [300 meters] of cable, and temperature sensor set; either invasive or non-invasive. System clamps onto the outside of pipes and do not contact the internal liquid to prevent fouling. System contains no moving parts and is designed to measure the fluid velocity of liquid within a closed conduit. The meter shall have the ability to measure bidirectional flows. Flow Meter shall have 8 GB of data logging with 8 data points for recording. Acceptable Manufacturer shall be Badger Dynasonics TFX-5000.
    b. Transmitter: Digital signal processor module to integrate raw measurement data and compute volumetric flow rate, total accumulated flow on LED display. Accuracy: ± 0.5% ± 0.025 ft/s (0.008 m/s) of reading calibrated to NIST standards. Repeatability: ±.2%. Velocity Range: Bi-directional from 1FPS to greater than 40 FPS. Display: Local 2 line LCD, LED backlit.
3. Output: USB 2.0, 4-20mA: isolated 4-20, 12-bit, internal power, can span negative to positive flow/energy rates12-bit, internal power, can span negative to positive flow/energy rates. cRS485: Modbus RTU command set or BACnet® MSTP. Optional: BACnet/IP. Must be BTL certified. Totalizing Pulse
4. Installation: Locate on exterior of pipe for complete nonintrusive flow measurement solution. Use silicone for acoustic coupling.
5. Enclosure: NEMA 4, IP67
6. Electrical: 24 VDC.

Drawings:

GENERAL

Item No. 25 **G-003 – SHEET INDEX**
Remove this sheet in its entirety.

Item No. 26 **G-043 – SIGNAGE GRAPHIC STANDARDS**
Removed dedication plaque signage from this sheet.

Item No. 27 **G-044 – SIGNAGE GRAPHIC STANDARDS**
Added Architect's seal to sheet.

Item No. 28 **G-045 – SIGNAGE GRAPHIC STANDARDS**
Add sheet in its entirety.

ARCHITECTURAL SITE

Item No. 29 **AS100 – ARCHITECTURAL SITE PLAN**

Replace this sheet in its entirety.

Item No. 30 **AS405.1 – ARCHITECTURAL ENLARGED SITE PLANS**
Add this sheet in its entirety.

Item No. 31 **AS407 – CANOPY DETAILS**
Replace this sheet in its entirety.

STRUCTURE

Item No. 32 **S-101 – COMPOSITE FOUNDATION PLAN**
Library portal frames have been revised.

Item No. 33 **S-101-2 – COMPOSITE FOUNDATION PLAN (ALT #1)**
Library portal frames have been revised.

Item No. 34 **S-101A – FOUNDATION PLAN - AREA A**
Column sizes have been modified.

Grade beam locations were adjusted to align with the walls.

Adjustments made to grade beam sizes.

Adjustments made to column base plate fixity.

Pony walls added with supporting thickened slab.

Library portal frame column relocated per architectural change.

Portal frame columns changed to tube from wide flange.

Item No. 35 **S-101B – FOUNDATION PLAN - AREA B**
Column sizes have been modified.

Item No. 36 **S-101C – FOUNDATION PLAN - AREA C**
Grade beam locations were adjusted to align with the walls.

Thickened slab modified into a grade beam.

Item No. 37 **S-101C-2 – FOUNDATION PLAN - AREA C (ALT #1)**
Grade beam locations were adjusted to align with the walls.

Thickened slab modified into a grade beam.

Column sizes have been modified.

Item No. 38 **S-101D – FOUNDATION PLAN - AREA D**
Column sizes have been modified.

Building section details were added.

Item No. 39 **S-101E – FOUNDATION PLAN - AREA E**
Column sizes have been modified.

Building section detail added.

Item No. 40 **S-101F – FOUNDATION PLAN - SERVICE YARD**
Column sizes have been modified.

Item No. 41 **S-102 – COMPOSITE MEZZANINE/LOW ROOF FRAMING PLAN**
Library portal frames have been revised.

Item No. 42 **S-102-2 – COMPOSITE MEZZANINE/LOW ROOF FRAMING PLAN (ALT #1)**
Library portal frames have been revised.

Item No. 43 **S-102A – MEZZANINE/LOW ROOF FRAMING PLAN - AREA A**
Expansion joint reduced from 2” to 1”.

Diagonal strut references revised.

Lateral H loads modified.

Slip connection callout added.

Beams near roof transition revised.

Library portal frames revised.

Beam bottom flange brace references revised.

Column bracing references added.

Item No. 44 **S-102B – LOW ROOF FRAMING PLAN - AREA B**

Column bracing references added.

Roof note number revised.

Item No. 45 **S-102C – LOW ROOF FRAMING PLAN - AREA C**

References for beam bottom flange braces updated to show both sides.

Roof note number revised.

Item No. 46 **S-102C-2 – LOW ROOF FRAMING PLAN - AREA C (ALT #1)**

References for beam bottom flange braces updated to show both sides.

Symbol for roof slope direction added.

Roof note number revised.

Item No. 47 **S-102D – MEZZANINE/LOW ROOF FRAMING PLAN - AREA D**

Expansion joint reduced from 2” to 1”.

Beam size at mezzanine provided.

Detail references for stage and cafeteria furr-down sections added.

Lateral H loads modified.

Beam bottom flange brace reference added.

Mezzanine detail sections added for interior floor edge at CMU wall.

Item No. 48 **S-102E – LOW ROOF FRAMING PLAN - AREA E**

Detail reference for stage cafeteria furr-down section added.

Beam bottom flange brace reference added.

Mezzanine detail sections added for interior floor edge at CMU wall.

End fixity adjusted for roof beam.

Roof note number revised.

Item No. 49 **S-103A – ROOF FRAMING PLAN - AREA A**

Roof note number revised.

Column bracing references added.

Note added to provide bent plate along roof hip.

Vertical brace added at roof transition.

Lateral H load modified.

Plan note added for roof deck type and direction.

Adjustments made to drag strut locations.

Column relocation at library portal frame per architectural change and BOD elevation updated.

Roof beam added for brace post-up and joist spacing updated for nearby members.

Adjustments made to roof beam sizes.

Roof beam near transition moved to allow connection.

Header brace references added.

Detail reference added for deck direction change at steel beam.

Beam bottom flange brace reference added.

Item No. 50 **S-103C – CLERESTORY ROOF FRAMING PLAN - AREA C**

Roof note number revised.

Column bracing reference added.

Plan note added for roof deck type and direction.

Item No. 51 **S-103D – ROOF FRAMING PLAN - AREA D**

Roof note number revised.

Detail references for stage and cafeteria furr-down sections added.

Tube size at stage furr-down modified.

Item No. 52 **S-103E – ROOF FRAMING PLAN - AREA E**

Roof note number revised.

Detail reference for stage cafeteria furr-down section added.

Item No. 53 **S-104A – HIGH ROOF FRAMING PLAN - AREA A**

Roof note number revised.

Note added to provide bent plate along roof hip.

Beam bottom flange brace reference added.

Piping loads adjusted.

Beam size adjusted at vertical brace.

Item No. 54 **S-104D – HIGH ROOF FRAMING PLAN - AREA D**

Roof note number revised.

Detail references for stage cafeteria furr-down section added.

Roof BOA dimension modified.

Item No. 55 **S-104E – HIGH ROOF FRAMING PLAN - AREA E**

Roof note number revised.

Detail reference for stage cafeteria furr-down section added.

Item No. 56 **S-311 – FOUNDATION DETAILS**

Detail added for thickened slab at glazing.

Item No. 57 **S-500 – GENERAL STEEL NOTES AND TYP DETAILS**
Column size in base plate schedule revised to W12X120.

Item No. 58 **S-522 – ROOF FRAMING DETAILS**
Expansion joint at roof transition reduced from 2” to 1”.

Item No. 59 **S-523 – ROOF FRAMING DETAILS**
Expansion joint at roof overhang reduced from 2” to 1”.

Item No. 60 **S-531 – BUILDING SECTIONS**
Sheet added for cafeteria furr-down sections.

Item No. 61 **S-532 – BUILDING SECTIONS**
Sheet added for stage furr-down section.

ARCHITECTURE

Item No. 62 **A-101A – 1ST FLOOR PLAN - AREA A**
Replace this sheet in its entirety.

Item No. 63 **A-101C – 1ST FLOOR PLAN - AREA C**
Replace this sheet in its entirety.

Item No. 64 **A-101D – 1ST FLOOR PLAN - AREA D**
Revised musical instrument storage.

Added accessible bench and locker to Locker room (D112C)

Item No. 65 **A-101E – 1ST FLOOR PLAN - AREA E**
Revised lockers to include ADA lockers.

Added locker elevations to locker Boy and Girl locker rooms.

Item No. 66 **A-103B – CLERESTORY PLAN & ELEVATIONS – AREA B**
Revised acoustic ceiling design on details 02 and 08.

Revised mullion spacing on details 03, 04, 05, 06, 09, 10, 11, and 12.

Item No. 67 **A-103C – CLERESTORY PLAN & ELEVATIONS – AREA C**
Revised acoustic ceiling design on details 02 and 08.

Revised mullion spacing on details 03, 04, 05, 09, 10, 11, and 12.

Item No. 68 **A-131A – 1ST FLOOR DIMENSION PLAN - AREA A**
Replace this sheet in its entirety.

Item No. 69 **A-131B – 1ST FLOOR DIMENSION PLAN - AREA B**
Replace this sheet in its entirety.

Item No. 70 **A-131C – 1ST FLOOR DIMENSION PLAN - AREA C**
Replace this sheet in its entirety.

Item No. 71 **A-131D – 1ST FLOOR DIMENSION PLAN - AREA D**
Replace this sheet in its entirety.

Item No. 72 **A-131E – 1ST FLOOR DIMENSION PLAN - AREA E**
Replace this sheet in its entirety.

Item No. 73 **A-201A – 1ST FLOOR CEILING PLAN - AREA A**
Added missing ceiling to Boy’s Restroom (A138)

Item No. 74 **A-202A – 2ND FLOOR CEILING PLAN - AREA A**
Revised Library light fixture locations.

Item No. 75 **A-202D – 2ND FLOOR CEILING PLAN - AREA D**

Replaced jib crane with trolly hoist.

Item No. 76 **A-202E – 2ND FLOOR CEILING PLAN - AREA E**
Added keynotes to gymnasium ceiling.

Item No. 77 **A-401 – ENLARGED FLOOR PLANS**
Add sheet in its entirety.

Item No. 78 **A-502 – EXTERIOR ELEVATIONS**
Replace this sheet in its entirety.

Item No. 79 **A-503 – EXTERIOR ELEVATIONS**
Replace this sheet in its entirety.

Item No. 80 **A-504 – EXTERIOR ELEVATIONS**
Replace this sheet in its entirety.

Item No. 81 **A-505 – EXTERIOR ELEVATIONS**
Replace this sheet in its entirety.

Item No. 82 **A-521 – INTERIOR ELEVATIONS - AREA A**
Add sheet in its entirety.

Item No. 83 **A-522 – INTERIOR ELEVATIONS – AREA A**

Added Rowlock Course of BK 04 20 00 BK1 to top of brick wall on details 03 and 05.

Revised acoustic panels on detail 03.

Added acoustic panels and revised dimensions to detail 06.

Item No. 84 **A-523 – INTERIOR ELEVATIONS - LIBRARY & CLASSROOMS - AREA D**
Added acoustic panels to security vestibule and entry corridor.

Item No. 85 **A-524 – INTERIOR ELEVATIONS - AREA B & AREA C**
Revised accent paint on detail 04 and 09.

Item No. 86 **A-525 – INTERIOR ELEVATIONS - AREA D**
Revised accent paint on details 01 and 05.

Added acoustic panels to detail 06.

Item No. 87 **A-526 – INTERIOR ELEVATIONS - AREA D**
Revised acoustical wall panel sizes.

Item No. 88 **A-527 – INTERIOR ELEVATIONS - AREA D & AREA E**
Revised Cafeteria entry.

Revised acoustic panel design.

Item No. 89 **A-715 – WALL SECTIONS DETAILS**
Replace this sheet in its entirety.

Item No. 90 **A-735 – CEILING DETAILS**
Add sheet in its entirety.

Item No. 91 **A-802.B – WALL FINISH SCHEDULE**
Remove this sheet in its entirety.

Item No. 92 **A-811 – DOORS - WINDOWS PANEL & FRAME TYPES & DOOR SCHEDULES**
Added door A140.2 to door schedule.

Revised door D110.E's remarks

Revised door height for D100A and D100B

Item No. 93 **A-844 – CASEWORK ELEVATION**
Added locker elevations and sections.

Item No. 94 **A-901 – 1ST FLOOR OVERALL FINISH PLAN**
Updated floor patterns for porcelain tiles, vinyl composite tiles, carpet and sports flooring.
Added the flooring for the stage and stage steps
Updated the visual for T2 in the legend
Added WSP to the legend

Item No. 95 **A-901A – 1ST FLOOR FINISH PLAN – AREA A**
Updated the floor patterns for porcelain tiles and carpet
Updated the visual for T2 in the legend
Added WSP to the legend

Item No. 96 **A-901B – 1ST FLOOR FINISH PLAN – AREA B**
Updated the floor patterns for vinyl composite tiles and added walk off carpet
Updated the visual for T2 in the legend
Added WSP to the legend

Item No. 97 **A-901C – 1ST FLOOR FINISH PLAN – AREA C**
Updated the floor patterns for vinyl composite tiles and added walk off carpet
Updated the visual for T2 in the legend
Added WSP to the legend

Item No. 98 **A-901D – 1ST FLOOR FINISH PLAN – AREA D**
Updated the floor patterns for porcelain tiles, vinyl composite tiles, sports flooring and added walk off carpet
Added the flooring for the stage and stage steps
Updated the visual for T2 in the legend
Added WSP to the legend

Item No. 99 **A-901E – 1ST FLOOR FINISH PLAN – AREA E**
Updated the floor patterns for porcelain tiles, sports flooring and added walk off carpet
Updated the flooring for the locker rooms, restrooms and showers
Updated the visual for T2 in the legend
Added WSP to the legend

MECHANICAL

Item No. 100 **M-101D – 1ST FLOOR MECHANICAL PLAN – AREA D**
Connect 1”Ø condensate drain line from MAU-D1-01 to 1”Ø condensate drain line from MAU-D1-02. Route 1-1/4”Ø condensate drain line from tap to mop sink located in Cust (D112A). Approx. length of 1-1/4”Ø condensate drain line 35’-0”.

Add keyed note #24 as “Route condensate drain line to MOP sink as shown. Provide wall supports at vertical intervals of 3’-0”.”

Associate keyed note #24 to 1-1/4”Ø condensate drain line routed to mop sink in Cust (D112A) and 1”Ø condensate drain line routed to mop sink in Cust (D103).

Revise keyed note #7 as “Fan coil unit suspended from structure. Provide 18” deep sheet metal return air plenum with 12”x12” return air opening on the back and outside air duct connection as shown. Contractor shall provide galvanized steel insulated auxiliary pan with conductivity sensor below fan coil unit. Conductivity sensor shall de-energize unit on sensing moisture in pan. Pan to extend under valving of unit and 6” beyond unit elsewhere. Refer to specifications and details. Route 3/4”Ø condensate drain line from condensate drain pan to lavatory p-trap thru plumbing chase as shown. Vertical drain piping shall not be exposed. Refer to plumbing drawings for exact drain locations.”

Revised sheet not provided with this addendum.

Item No. 101 **M-101E – 1ST FLOOR MECHANICAL PLAN – AREA E**
Revise keyed note #3 as “Fan coil unit suspended from structure. Provide 18” deep sheet metal return air plenum with 14”x14” return air opening on the back and outside air duct connection as shown. Contractor shall provide galvanized steel insulated auxiliary pan with conductivity sensor below fan coil unit.

Conductivity sensor shall de-energize unit on sensing moisture in pan. Pan to extend under valving of unit and 6" beyond unit elsewhere. Refer to specifications and details. Route 3/4"Ø condensate drain line from condensate drain pan to lavatory p-trap thru plumbing chase as shown. Vertical drain piping shall not be exposed. Refer to plumbing drawings for exact drain locations."

Revise keyed note #6 as "Cassette style fan coil unit. Route ¾"Ø condensate drain line to MOP sink as shown. Provide wall supports at vertical intervals of 3'-0"."

Add temperature, humidity and Carbon Dioxide sensors in Gymnasium (E100) in plan North West corner associated with AHU-E2-01.

Relocate FCU-E1-03 plan North by 3'-0". Extend chilled and heating water piping and outside air duct by 3'-0" each.

Revise exhaust grille CFM serving Cust (E100D) to 110. Extend 8"x8" exhaust duct by 10'-0". Add one (1) long radius elbow of size 8"x8".

Extend ¾"Ø condensate drain line associated with FCU-IDF-E1 by 20'-0".

Revised sheet not provided with this addendum.

Item No. 102 **M-102E – MEZZANINE MECHANICAL PLAN – AREA E**
Add sentence to keyed note #9 and #10 as "All exposed piping shall be wrapped with Aluminum jacket."

Revised sheet not provided with this addendum.

Item No. 103 **M-201 – MECHANICAL ENLARGED PLAN**
Revise chilled water supply and return piping routed to chillers.

Revise tags for fan coil units FCU-E1-06, 07.

Refer to revised sheet M-201.

Item No. 104 **M-401 – MECHANICAL CENTRAL PLANT PIPING DIAGRAM**
Add sheet in its entirety.

Item No. 105 **M-402 – MECHANICAL CHILLED WATER PIPING DIAGRAM**
Add sheet in its entirety.

Item No. 106 **M-403 – MECHANICAL HEATING WATER PIPING DIAGRAM**
Add sheet in its entirety.

Item No. 107 **M-501 – MECHANICAL SCHEDULES**
Modular Indoor Central-Station Air-Handling Unit Schedule:

For AHU-A1-01, revise total Brake HP to 7.5.

For AHU-A2-02, revise operating weight to 4,560 lbs.; total Brake HP to 11.20; motor quantity/motor HP to 2 @ 7.5; VFD HP to 15; FLA to 22.0 amps.

For AHU-D1-02, revise total Brake HP to 7.2.

Revised sheet not provided with this addendum.

Item No. 108 **M-503 – MECHANICAL SCHEDULES**
HVAC Fans Schedule:

Revise EF-A1-01 CFM to 515.

Revise EF-A1-03 CFM to 425.

Revise EF-D1-01 CFM to 685.

Revise EF-D1-02 CFM to 210.

HVAC Gravity Ventilators Schedule: Delete IH-E2-01.

Revised sheet not provided with this addendum.

PLUMBING

Item No. 109 **PS-101 – PLUMBING SITE PLAN**
Add clarifying keynote at underground gas piping in service yard to be coordinated with Civil site utilities as required.

Item No. 110 **PU-101A – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA A**
Rework underground sanitary waste piping at STUDENT – GIRL'S RESTROOM A135 to clear added underground structural elements.

Item No. 111 **PU-101C – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA C**
Shift utilities at lab sinks in SCIENCE LAB C103 to align with shifted lab sink locations accordingly.

Remove two (2) lab sinks in SCIENCE LAB C103 to align with updated Architectural background.

Item No. 112 **P-101A – 1ST FLOOR PLUMBING PLAN – AREA A**
Rework chase piping at STUDENT – GIRL'S RESTROOM A135 to clear added underground structural elements.

Item No. 113 **P-101C – 1ST FLOOR PLUMBING PLAN – AREA C**
Shift utilities at lab sinks in SCIENCE LAB C103 to align with shifted lab sink locations accordingly.

Remove two (2) lab sinks in SCIENCE LAB C103 to align with updated Architectural background.

Shift piping and trap primer TP – E outside of added rooftop access ladder in CUST C110.

Item No. 114 **P-101D – 1ST FLOOR PLUMBING PLAN – AREA D**
Shift piping to accommodate shifted floor sink at level above.

Item No. 115 **P-102D – MEZZANINE PLUMBING PLAN – AREA D**
Shift floor sink 4" FS – 1 in MECHANICAL MEZZANINE D200 plan right by 2'-6" to clear mechanical equipment footprint.

Item No. 116 **P-301 – PLUMBING ROOF PLAN**
Shift gas connections at rooftop MAUs to align with shifted unit locations, adjust pipe routing to accommodate shift accordingly.

Item No. 117 **P-402 – PLUMBING ROOF PLAN**
Reduce make-up water connection sizes down to 1" as per coordination with Mechanical consultant.

Item No. 118 **P-602 – PLUMBING DETAILS**
Correct titleblock key plan to reflect building areas.

Item No. 119 **P-603 – PLUMBING DETAILS**
Correct titleblock key plan to reflect building areas.

Item No. 120 **P-701 – PLUMBING RISER DIAGRAMS**
Update riser diagram to reflect floor plan changes.

TECHNOLOGY

Item No. 121 **TF-101E – 1ST FLOOR FIRE ALA RM PLAN AREA E**
New sheet not provided.

Added (2) heat detectors in BOILER ROOM E109.

Added speaker strobe and smoke detector to MEZZ ACESS E108.

Added fire alarm pull station in MAIN ELEC. E105, MAIN MECH E107, RISER ROOM E106 and BOILER ROOM E109.

Added smoke detector to MAIN MECH E107.

Item No. 122 **ALL TN SHEETS-**
New sheets not provided.

Added TECHNOLOGY PLAN KEYED NOTES #19.

INDICATES THE APPROXIMATE LOCATION OF PARTITION SENSOR PER 27 51 23.80.

Item No. 123 **TN-101A – 1ST FLOOR TECHNOLOGY PLAN – AREA A**
New sheet not provided.

Relocated CP, D2 and PS in SPED A133.

Item No. 124 **TN-101C – 1ST FLOOR TECHNOLOGY PLAN – AREA C**
New sheet not provided.

Added D2 with keynote #3 in DEPARTMENT WORKROOM C108.

Item No. 125 **TN-101D – 1ST FLOOR TECHNOLOGY PLAN – AREA D**
New sheet not provided.

Added keynote #19 in CAFETERIA D110 next to the partition wall.

Item No. 126 **T-402 – TECHNOLOGY RACK ELEVATIONS**
Added sheet in it's entirely.

END OF ADDENDUM NUMBER 01

LAMAR CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
NEW MIDDLE SCHOOL #8

RFP Number: 24-2025BPO
PBK Project Number: 240541

PRE - PROPOSAL CONFERENCE

SIGN-IN SHEET

Tuesday, October 21, 2025 at 11:30 A.M.

NAME	COMPANY	PHONE	E-MAIL
Michael Hoey	PBK	832-769-7853	michael.hoey@pbk.com
Jim RICE	LCISD		james.rice@lcisd.org
Brandon Crockett	PBK	281-507-2371	brandon.crockett@pbk.com
Bailey LeCroy	PBK	281-750-6490	bailey.lecroy@pbk.com
Alfredo Aparicio	MRI	832-256-3132	alfredo@mritexas.com
Braden Crisp	Flintco	832-884-7973	Braden.Crisp@Flintco.com
Sharon Fisher	Drymalla	979-732-5731	sfisher@drymalla.com
Will Touchy	ICI	281-855-5157	bids@iciconstruction.com
Jonathan Ellisor	EPIC	832-726-3584	JELLISOR@EPICEX.COM
Michael Raven	VLG	832-520-3479	MRaven.MR@Gmail.com
Elizabeth Stenac	Satterfield+Pontikes	713-996-1300	~~estenac~~ houstonbids@satpon.com
Brandon Norris	Sterling Structures	713-827-7447	Bids@sterlingstructures.com
Dayzi Valencia	LCISD	8325738423	
Chris Lloyd	MCA	8174227787	Chris.lloyd@callmcc.com
Morgan Deborde	Flintco	713-822-5000	morgan.deborde@flintco.com
MICHAEL ABBOTT	LCISD/RGCI	(832) 344-7405	MICHAEL.ABBOTT@LCISD.ORG
JOSH BROWN	PBK	(205) 876-6788	JOSH.BROWN@PBK.COM

LAMAR CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
NEW MIDDLE SCHOOL #8

RFP Number: 24-2025 BPO
PBK Project Number: 240541

PRE-PROPOSAL CONFERENCE
AGENDA

Tuesday, October 21, 2025 at 11:30 A.M.
LCISD Bond Program Office – 5015 Commodore Drive, Rosenberg, TX. 77471, Conference Room 104

I. Introduction of Representatives

A. OWNER: Lamar Consolidated Independent School District
Kevin McKeever ..... Bond Program Office Director
Scot Hartfiel, AIA..... Design Manager
Jason Tolbert ..... Construction Manager
Michael Abbott ..... Program Representative
Jim Rice..... Consultant

B. ARCHITECT: PBK 713-965-0608
Lorin Y. Pargoud ..... Senior Managing Principal
Michael Houy, AIA..... Associate Principal, Senior Project Manager
Omar Toriz ..... Project Manager
Bailey LeCroy, RA, NCARB ..... Project Architect
Brandon Crockett ..... Construction Services Manager
Gianella Cevallos ..... Project Coordinator

C. MEPT: LEAF Engineers 713-940-3300
Brian Hood ..... Senior Vice President
Derek Metz..... Director of Construction Administration – LEAF

D. CIVIL: KALUZA, Inc 281-341-0808
Duane Whitehead, P.E..... Vice President
Zachary Stavinoha , P.E ..... Engineer

E. STRUCTURAL: Kubala Engineers 713-940-3343
John Kubala, P.E. ..... President
Maria Sharifi, P.E. ... . Managing Principal

F. FACILITIES: BEAM Professionals 713-965-0608
Jason Benoit ..... Senior Project Manager
Brooks Broyles ..... Project Manager
Jerrad Perney..... Construction Services Manager

G. LANDSCAPE: Edgeland 713-460-0988
Jacob Galles ..... President
Edgar Jaimes ..... Project Manager

H. DOOR HARDWARE: Assa Abloy 832-875-2009
Eric Nangle..... Sales Manager

I. FOODSERVICE: FDP..... 281-350-2323
Vernon Sanford ..... Project Manager

J. GEOTECHNICAL: Terracon 713-690-8989
Ranadeep Ravula ..... Senior Engineer

II. Proposal Date: Thursday, November 20, 2025

Proposal Time: Base Proposal Due: 2:00 P.M.
Alternate Proposals Due: 3:00 P.M.

Proposal Location: Lamar Consolidated Independent School District
LCISD Service Center
4901 Avenue I
Rosenberg, Texas 77471
Phone: (832) 223-0166

III. Changes: Any changes arising out of questions requiring interpretation, clarification or correction to the Request for Proposal will be made by Addendum.

IV. Pre-Proposal Submission

Pre-Proposal Digital proposal submissions shall be submitted through the IonWave system by noon on Friday October 31st, 2025. Pre-Proposal documents and submission instructions are available online at: https://lcisd.ionwave.net/Login.aspx. Required Pre-Proposal documents are as follows:

A. Company Information
B. Contractor Qualifications (AIA Document A305)
C. List of 10 Past Similar Projects
D. Experience Modifier Rate (EMR) Back-Up Documents

V. Base Proposal Submission

Base Proposal Digital proposal submissions shall be submitted through the IonWave system by 2:00PM on Thursday, November 20th, 2025. Base Proposal documents and submission instructions are available online at: https://lcisd.ionwave.net/Login.aspx. Required Base Proposal documents are as follows:

A. Proposed Project Plan
B. Proposed Project Schedule
C. List of Past Projects with Lamar CISD
D. Organization Chart of Proposed Project Team
E. Resume of Each Team Member
F. Letter From Bond Company Stating Available Bonding Capacity
G. Proof of Proper Insurance Requirements
H. Proof of Proposal Bond
I. Complete 1295 Form
J. Certificate of Residency
K. Felony Conviction Notification
L. Conflict of Interest Questionnaire
M. Certificate Regarding Lobbying
N. Vendor Debarment Statement
O. Texas Statutory Performance Bond
P. Texas Statutory Payment Bond
Q. Certificate Regarding Terrorist Organizations and Boycott of Israel - Texas Government Code 2270 Verification Form

VI. Alternate Proposal Submission

Alternate Proposal Digital proposal submissions shall be submitted through the IonWave system by 3:00PM on Thursday, November 20th, 2025. Alternate Proposal documents and submission instructions are available online at: https://lcisd.ionwave.net/Login.aspx.

VII. Post-Proposal Submission

Post-Proposal Digital proposal submissions shall be submitted through the IonWave system by noon on Monday, November 24th, 2025. Post-Proposal documents and submission instructions are available online at: https://lcisd.ionwave.net/Login.aspx. Required Post-Proposal documents are as follows:

E. List of Major Sub-Contractors
F. List of Self-Performed Work
G. Schedule of Values (AIA G703)

VIII. Summary of Work

DESCRIPTION OF WORK

A. New Middle School #8 for the Lamar Consolidated Independent School District.
B. Location and Municipalities: The site is located along FM 359 in Brookshire, TX 77441.
C. Summary: The project consists of the construction of a New Middle School No. 8, a one-story building with drilled piers, slab-on-grade slab, pre-engineered steel frame, masonry cavity walls/metal wall panels, brick & stone veneer, and modified bitumen roofing. The 103,250 sq. ft. Middle School is located on a 60-acre campus site. Facilities will include regular classrooms, gymnasium, science labs, food service, administration, and ancillary support areas. On-site improvements and site amenities will include parking, covered walkways, and utilities.

IX. Communications

All communications shall be directed to the office of the Architect at the following:

PBK Architects, Inc.
Attention: Michael Houy, AIA; Associate Principal/Senior Project Manager
Email: michael.houy@pbk.com
Phone: (832) 769-7853

PBK Architects, Inc.
Attention: Omar Toriz; Project Manager
Email: omar.toriz@pbk.com
Phone: (713) 384-8607

PBK Architects, Inc.
Attention: Bailey LeCroy, RA, NCARB; Project Architect
Email: bailey.lecroy@pbk.com
Phone: (281) 750-6490

PBK Architects, Inc.
Attention: Gianella Cevallos; Project Coordinator
Email: gianella.cevallos@pbk.com
Phone: (346) 295-8150

X. Questions:

1. Which jurisdiction does this project fall in?
   - City of Simonton, FBC extra territorial jurisdiction
2. Centerpoint energy for electricity and SiEnergy for gas
3. Any water to the site?
   - We will confirm the availability of the utilities. Utilities are being installed for another site right now
4. Wide open/green site?
   - Yes

SECTION 05 50 00 - METAL FABRICATIONS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
1. Bollards.
a. Metal Pipe Bollards, _____.
b. Pipe/downspout guards.
2. Steel framing and supports for ceiling-hung toilet partitions.
3. Steel framing and supports for operable partitions.
4. Steel framing and supports for overhead doors and grilles.
5. Steel tube reinforcement for low partitions.
6. Steel framing and supports for mechanical and electrical equipment.
7. Steel framing and supports (outriggers) for window washing equipment.
8. Mounting brackets and anchorages for window washing equipment.
9. ~~Catwalk Structure.~~
10. CMU Partition Head Supports.
11. Custom-fabricated sheet metal reveals.
12. Equipment framing and supports.
13. ~~Elevator hoistway beams.~~
14. ~~Support angles for elevator door sills.~~
15. ~~Elevator pit sump cover.~~
16. Equipment guards.
17. ~~Folding metal gates.~~
18. Horizontal sliding grille framing and supports.
19. Ladder safety cages.
20. Loose steel lintels.
21. Loose bearing and leveling plates.
22. Metal ladders.
23. ~~Band Tower.~~
24. Miscellaneous steel, including steel angle corner guards, steel edgings, and loading dock edge angles
25. Partial-height partition reinforcing steel tube.
26. Shelf angles.
27. Slotted channel framing.
28. Accessories as necessary for complete installation.

1.3 REFERENCE STANDARDS

A. 2012 TAS - Texas Accessibility Standards; 2012.

B. ANSI A14.3 - American National Standard for Ladders -- Fixed -- Safety Requirements; 2008 (Reaffirmed 2018).

C. ASME A17.1 - Safety Code for Elevators and Escalators Includes Requirements for Elevators, Escalators, Dumbwaiters, Moving Walks, Material Lifts, and Dumbwaiters with Automatic Transfer Devices; 2019, with Errata (2021).

D. ASTM A27/A27M - Standard Specification for Steel Castings, Carbon, for General Application; 2020.

E. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.

F. ASTM A47/A47M - Standard Specification for Ferritic Malleable Iron Castings; 1999, with Editorial Revision (2018).

G. ASTM A48/A48M - Standard Specification for Gray Iron Castings; 2003 (Reapproved 2016).

H. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2020.

I. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.

J. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016a.

K. ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2020a.

L. ASTM A276/A276M - Standard Specification for Stainless Steel Bars and Shapes; 2017.

M. ASTM A283/A283M - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates; 2018.

N. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2021.

O. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2021a.

P. ASTM A563/A563M - Standard Specification for Carbon and Alloy Steel Nuts (Inch and Metric); 2021a.

Q. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.

R. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.

S. ASTM A741 - Standard Specification for Metallic-Coated Steel Wire Rope and Fittings for Highway Guardrail; 2011.

T. ASTM A780/A780M - Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings; 2020.

U. ASTM A786/A786M - Standard Specification for Hot-Rolled Carbon, Low-Alloy, High-Strength Low-Alloy, and Alloy Steel Floor Plates; 2015 (Reapproved 2025).

V. ASTM A793 - Standard Specification for Rolled Floor Plate, Stainless Steel; 1996.

W. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2018a.

X. ASTM B26/B26M - Standard Specification for Aluminum-Alloy Sand Castings; 2018, with Editorial Revision.

Y. ASTM B36/B36M - Standard Specification for Brass Plate, Sheet, Strip, and Rolled Bar; 2018.

Z. ASTM B62 - Standard Specification for Composition Bronze or Ounce Metal Castings; 2017.

AA. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021.

BB. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

CC. ASTM B455/B455M - Standard Specification for Copper-Zinc-Lead Alloy (Leaded-Brass) Extruded Shapes; 2020.

DD. ASTM B584 - Standard Specification for Copper Alloy Sand Castings for General Applications; 2022.

EE. ASTM B632/B632M - Standard Specification for Aluminum-Alloy Rolled Tread Plate; 2024.

FF. ASTM B633 - Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel; 2019.

GG. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2018.

HH. ASTM C150/C150M - Standard Specification for Portland Cement; 2021.

II. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.

JJ. ASTM D1187/D1187M - Standard Specification for Asphalt-Base Emulsions for Use as Protective Coatings for Metal; 1997 (Reapproved 2018).

KK. ASTM E488/E488M - Standard Test Methods for Strength of Anchors in Concrete Elements; 2022.

LL. ASTM F593 - Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs; 2017.

MM. ASTM F594 - Standard Specification for Stainless Steel Nuts; 2009 (Reapproved 2020).

NN. ASTM F1554 - Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength; 2020.

OO. ASTM F1941/F1941M - Standard Specification for Electrodeposited Coatings on Mechanical Fasteners, Inch and Metric; 2016.

PP. ASTM F2329/2329M - Standard Specification for Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners; 2015.

QQ. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength; 2022.

RR. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2022).

SS. AWS D1.2/D1.2M - Structural Welding Code - Aluminum; 2014, with Errata (2020).

TT. AWS D1.3/D1.3M - Structural Welding Code - Sheet Steel; 2018.

UU. AWS D1.6/D1.6M - Structural Welding Code - Stainless Steel; 2017, with Amendment (2021).

1.4 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design ladders and countertop supports, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

B. Structural Performance of Ladders: Provide ladders and landings capable of withstanding the effects of loads and stresses within limits and under conditions specified in ANSI A14.3.

C. Structural Performance:
   1. Countertops and Vanities: Provide countertop and vanity framing capable of withstanding the following structural loads without exceeding the allowable design working stress of the materials involved, including anchors and connections, or of exhibiting excessive deflections in any of the components making up the countertops and vanities:
      a. All deadloads.
      b. 500 pound live load placed on the countertop and vanity.
      c. Deflection at Midspan: L/1000 times span or 1/8 inch whichever is less.

D. Thermal Movements:
   1. Provide exterior metal fabrications that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of connections, and other

detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss:

a. Temperature change (range): 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), material surfaces.

1.5 SUBMITTALS

A. Product Data: Submit data for miscellaneous metal fabrications and paint, coatings, and grout accessories.

B. Shop Drawings:
   1. Submit shop drawings detailing the fabrication and erection of each metal fabrication indicated. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items:
      a. For installed products indicated to comply with design loads, include structural analysis data, for information only, signed and sealed by the qualified professional engineer responsible for their preparation.

C. Delegated Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

D. Welding Certificates.

E. Paint Compatibility Certificates: Submit manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

1.6 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Building Code - Comply with applicable provisions of the CBC 2019 California Building Code (CCR Title 24, Part 2, as adopted and amended by DSA):
      a. CBC Section 11B-504 where applicable (accessibility).
   2. Building Code: Comply with applicable requirements of the IBC for metal fabrications.
   3. Welding - qualify procedures and personnel according to the following:
      a. AWS D1.1/D1.1M Structural Welding Code – Steel.
      b. AWS D1.2/D1.2M Structural Welding Code - Aluminum.
      c. AWS D1.3/D1.3M Structural Welding Code - Sheet Steel.
      d. AWS D1.6/D1.6M Structural Welding Code - Stainless Steel.
      e. Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.

B. Fabricator/Installer Qualifications: A firm experienced in producing metal fabrications similar to those indicated for this work for a minimum of 5 years, with a record of successful in-service performance, with sufficient production capacity to produce required units without causing delay in the work.

C. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of metal fabrications that are similar to those indicated in material, design, and extent.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.
   1. Established Dimensions: Where field measurements cannot be made without delaying the work, establish dimensions and proceed with fabricating metal fabrications without field measurements. Coordinate wall and other contiguous construction to ensure that actual dimensions correspond to established dimensions.
   2. Provide allowance for trimming and fitting at site.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Store metal fabrications in a dry, well ventilated, weathertight place. Deliver and handle to prevent any type of damage to the fabricated work.

1.9 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

PART 2 PRODUCTS

2.1 MATERIALS

A. Metal Surfaces, General:
   1. Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
   2. Slotted Channel Framing: Cold formed metal box channels (struts) complying with MFMA-4.
      a. Size of Channels: 1-5/8 inches by 1-5/8 inches (41 mm by 41 mm).
      b. Material: Galvanized steel ASTM A653/A653M, commercial steel, Type B. with G90 (Z275) coating; 0.108 inch (2.8 mm) nominal thickness.
      c. Cold Formed Metal Channels: Flange edges returned toward web and with 9/16 inch (14.3 mm) wide slotted holes in webs at 2 inches (51 mm) o.c.
      d. Width of Channels: 1-5/8 inches (41 mm).
      e. Depth of Channels: As indicated on Drawings.
      f. Metal and Thickness: Galvanized steel complying with ASTM A653/A653M, structural quality, Grade 33 (Grade 230), with G90 (Z275) coating; 0.108 inch (2.8 mm) nominal thickness.
      g. Finish: Hot dip galvanized after fabrication.
   3. Fasteners: Unless otherwise indicated, provide Type 304 stainless steel fasteners for exterior use and zinc plated fasteners with coating complying with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
      a. Provide stainless steel fasteners for fastening aluminum.
      b. Provide stainless steel fasteners for fastening stainless steel.
      c. Provide stainless steel fasteners for fastening nickel silver.
      d. Provide bronze fasteners for fastening bronze.
      e. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A307, Grade A; with hex nuts, ASTM A563/A563M; and, where indicated, flat washers.
      f. Steel Bolts and Nuts: Regular hexagon head bolts, ASTM A325/A325M, Type 3; with hex nuts, ASTM A563/A563M, Grade C3 (ASTM A563M, Class 8S3); and, where indicated, flat washers.
      g. Stainless Steel Bolts and Nuts: Regular hexagon head annealed stainless steel bolts, ASTM F1554 (ASTM F738M); with hex nuts, ASTM F594 (ASTM F836M); and, where indicated, flat washers; Alloy.
      h. Anchor Bolts: ASTM F1554, Grade 36, of dimensions indicated; with nuts, ASTM A563/A563M; and, where indicated, flat washers.
         1) Hot dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.

i. Anchors: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E488/E488M , conducted by a qualified independent testing agency.
j. Cast in Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel. Provide bolts, washers, and shims as needed, all hot dip galvanized per ASTM F2329/2329M.
k. Post Installed Anchors:
    1) Material for Interior Locations: Carbon steel components zinc plated to comply with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, unless otherwise indicated.
    2) Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 (A1) or Group 2 (A4) stainless steel bolts, ASTM F593 ASTM F593 (ASTM F738M), and nuts, ASTM F594 (ASTM F836M).
l. Slotted Channel Inserts: Cold-formed, hot-dip galvanized steel box channels (struts) complying with MFMA-4, 1-5/8 by 7/8 inches (41 by 22 mm) by length indicated with anchor straps or studs not less than 3 inches (75 mm) long at not more than 8 inches (200 mm) o.c. Provide with temporary filler and tee head bolts, complete with washers and nuts, all zinc plated to comply with ASTM B633, Class Fe/Zn 5, as needed for fastening to inserts

B. Aluminum:
1. Aluminum Plate and Sheet: ASTM B209/B209M, Alloy 6061-T6.
2. Aluminum Extrusions: ASTM B221, Alloy 6063-T6.
3. Aluminum Alloy Rolled Tread Plate: ASTM B632/B632M , Alloy 6061-T6.
4. Aluminum Castings: ASTM B26/B26M, Alloy 443.0-F.

C. Bronze:
1. Bronze Extrusions: ASTM B455/B455M, Alloy UNS No. C38500 (extruded architectural bronze).
2. Bronze Plate, Sheet, Strip, and Bars: ASTM B36/B36M, Alloy UNS No. C28000 (muntz metal, 60 percent copper).
3. Bronze Castings: ASTM B584, Alloy UNS No. C83600 (leaded red brass) or No. C84400 (leaded semired brass).

D. Cast Iron:
1. Either gray iron, ASTM A48/A48M, or malleable iron, ASTM A47/A47M, unless otherwise indicated.

E. Nickel:
1. Nickel Silver Extrusions: ASTM B151/B151M, Alloy UNS No. C74500.
2. Nickel Silver Castings: ASTM B584, Alloy UNS No. C97600 (20 percent leaded nickel bronze).

F. Stainless Steel:
1. Stainless Steel Sheet, Strip, and Plate:ASTM A240/A240M or ASTM A666/A666M, Type 304.
2. Stainless Steel Bars and Shapes: ASTM A276/A276M, Type 304.
3. Rolled Stainless Steel Floor Plate: ASTM A793.

G. Steel:
1. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
2. Steel Pipe: ASTM A53/A53M, Standard Weight (Schedule 40) unless otherwise indicated.
3. Steel Tubing: ASTM A500/A500M, cold formed steel tubing.
4. Rolled Steel Floor Plate: ASTM A786/A786M, rolled from plate complying with ASTM A36/A36M or ASTM A283/A283M, Grade C or D.

H. Zinc Coated Steel Wire Rope: ASTM A741:
   1. Wire Rope Fittings: Hot dip galvanized steel connectors with capability to sustain, without failure, a load equal to minimum breaking strength of wire rope with which they are used.

I. Abrasive Surface Floor Plate:
   1. Steel plate with abrasive granules rolled into surface or with abrasive material metallically bonded to steel:
      a. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
         1) IKG Industries, a division of Harsco Corporation.
         2) SlipNOT Metal Safety Flooring; W.S. Molnar Company.

J. Fasteners:
   1. Unless otherwise indicated, provide Type 304 stainless steel fasteners for exterior use and zinc plated fasteners with coating complying with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required:
      a. Provide stainless steel fasteners for fastening aluminum.
      b. Provide stainless steel fasteners for fastening stainless steel.
      c. Provide stainless steel fasteners for fastening nickel silver.
      d. Provide bronze fasteners for fastening bronze.
      e. Steel Bolts and Nuts: Regular hexagon head bolts, ASTM A307, Grade A with hex nuts, ASTM A563/A563M and, where indicated, flat washers.
      f. Steel Bolts and Nuts: Regular hexagon head bolts, ASTM F3125/F3125M, Type 3 with hex nuts, ASTM A563/A563M, Grade C3 and, where indicated, flat washers.
      g. Stainless Steel Bolts and Nuts: Regular hexagon head annealed stainless steel bolts, ASTM F593 with hex nuts, ASTM F594 and, where indicated, flat washers; alloy.
      h. Anchor Bolts: ASTM F1554, Grade 36, of dimensions indicated; with nuts, ASTM A563/A563M and, where indicated, flat washers:
         1) Hot dip galvanize or provide mechanically deposited zinc coating where item being fastened is indicated to be galvanized.
      i. Anchors: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E488/E488M, conducted by a qualified independent testing agency.
      j. Post Installed Anchors:Torque controlled expansion anchors or chemical anchors
         1) Material for interior locations: Carbon steel components zinc plated to comply with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, unless otherwise indicated.
         2) Material for exterior locations and where stainless steel is indicated: Alloy; Group 1 (A1) or Group 2 (A4), ASTM F593, and nuts, ASTM F594.
      k. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel. Provide bolts, washers, and shims as needed, all hot dip galvanized per ASTM F2329/2329M.
      l. Slotted Channel Inserts: Cold-formed, hot-dip galvanized steel box channels (struts) complying with MFMA-4, 1-5/8 by 7/8 inches (41 by 22 mm) by length indicated with anchor straps or studs not less than 3 inches (75 mm) long at not more than 8 inches (200 mm) o.c. Provide with temporary filler and tee head bolts, complete with washers and nuts, all zinc plated to comply with ASTM B 633, Class Fe/Zn 5, as needed for fastening to inserts

K. Miscellaneous Materials:

1. Shop Primer for Ferrous Metal: Universal primer, organic zinc rich primer, complying with SSPC-Paint 20 and compatible with topcoat. Provide 10-99 (red) or 10-09 (gray) by Tnemec Company.
2. Universal Shop Primer: Fast curing, lead and chromate free, universal modified alkyd primer and compatible with topcoat. Use primer containing pigments that make it easily distinguishable from zinc rich primer.
3. Water Based Primer: Emulsion type, anticorrosive primer for mildly corrosive environments that is resistant to flash rusting when applied to cleaned steel and compatible with topcoat.
4. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc coated metal and compatible with finish paint systems indicated.
5. Galvanizing Repair Paint: High zinc dust content paint for regalvanizing welds in steel, complying with SSPC-Paint 20. Provide Tneme-Zinc 90-97 by Tnemec Company.
6. Bituminous Paint: Cold applied asphalt emulsion complying with SSPC-Paint 12, containing no asbestos fibers, or cold applied asphalt emulsion complying with ASTM D1187/D1187M.
7. Non-shrink, Non-Metallic Grout: Factory packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
8. Concrete Materials and Properties: Composed of ASTM C150/C150M Type I Portland cement, ASTM C33/C33M sand and coarse aggregates and potable water to produce a low slump mix suitable for placement. Grade coarse aggregate from 1/8 inch with at least 95 percent passing a 3/8-inch sieve and not more than 10 percent passing a No. 8 sieve. Fill shall be proportioned to provide a minimum 28-day compressive strength of 3,000 psi (20 MPa).

2.2 FABRICATION

A. Shop Assembly:
   1. Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation:
      a. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
      b. Form bent metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
      c. Form exposed work with accurate angles and surfaces and straight edges.
      d. Weld corners and seams continuously to comply with the following:
         1) Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
         2) Obtain fusion without undercut or overlap.
         3) Remove welding flux immediately.
         4) At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
      e. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.
      f. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
      g. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

h. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.
i. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 inch by 1-1/2 inches (3.2 mm by 38 mm), with a minimum 6 inch (150 mm) embedment and 2 inch (50 mm) hook, not less than 8 inches (200 mm) from ends and corners of units and 24 inches (600 mm) o.c., unless otherwise indicated.
j. Galvanize miscellaneous framing and supports at exterior locations; prime paint miscellaneous framing and supports at interior locations.

2. Miscellaneous Framing and Supports: Provide steel framing and supports necessary to complete the work and which are not a part of the structural framework, including but not limited to framing and supports for ~~elevator hoistway beams, elevator sills,~~ overhead lobby door frames, sliding doors, countertop and vanities, ceiling hung toilet compartments, and tube framing for partial height walls, CMU partition head supports, mechanical and electrical equipment.
   a. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction. Cut, drill, and tap units to receive hardware, hangers, and similar items.
      1) Fabricate units from slotted channel framing where indicated.
      2) Furnish inserts for units installed after concrete is placed.
   b. Operable Partition Supports: Fabricate supports for operable partitions from continuous steel beams of sizes recommended by partition manufacturer with attached bearing plates, anchors, and braces as recommended by partition manufacturer. Drill or punch bottom flanges of beams to receive partition track hanger rods; locate holes where indicated on operable partition Shop Drawings.
   c. Framing for Ceiling Hung Toilet Compartments: Provide framing for ceiling hung toilet compartments, coordinated with the partitions and including provisions for partition anchorage as required to sustain imposed loads and to limit deflections to L/360 between hangers, fabricated from the following:
      1) Structural Steel Shapes, Plates and Bars: ASTM A36/A36M.
      2) Modular Structural Framing System: ASTM A569; modular, structural quality steel preformed U-channel framing system with continuous open slot prepared to receive attachment nuts, bolts, straps, threaded rods, beam clamps, hanger rods support brackets and other accessories. Provide corrosion resistant finish.
      3) Provide steel rods, 1/2 inch (13 mm) diameter, spaced at maximum 36 inches (900 mm) o.c. Thread rods to receive anchor and stop nuts. Fit hangers with wedge shape washers for full bearing on sloping flanges of support beam.
      4) Coordinate installation with toilet compartment manufacturer's written instructions and recommendations.
   d. Countertop and Vanity Framing: Custom fabricate countertop and vanity framing, using steel shapes and plates, and cold finished mild steel bars at exposed conditions, for support framing and plywood, to the thicknesses, sizes and shapes shown, and as required to produce work of adequate strength and durability, without objectionable deflections. Use proven details of fabrication, as required, to achieve proper assembly and alignment of the various components of the work.
   e. CMU Partition Head Supports: Fabricate supports from 4 inch x 4 inch x 1/4 inch by 36 inch (100 mm by 100 mm by 6 mm by 900 mm) long structural steel angles. Drill supports a maximum of 12 inches (300 mm) o.c. to receive expansion bolts.
   f. Galvanize miscellaneous framing and supports at exterior locations; prime paint miscellaneous framing and supports at interior locations.

2.3 BOLLARDS

A. Stainless Steel Pipe Bollards:

1. Fabricate metal bollards from Schedule 40 steel pipe or 1/4 inch (6.4 mm) wall thickness rectangular steel tubing. Pipe bollards shall have a seamless dome top configuration with a #4 brushed finish.
2. Where bollards are indicated to receive controls for door operators, provide cutouts for controls and holes for wire.
3. Where bollards are indicated to receive light fixtures, provide cutouts for fixtures and holes for wire.
4. Where bollards are to be installed on structural slab or existing paving:
   a. Fabricate bollards with 3/8 inch (9.5 mm) thick steel baseplates for bolting to concrete slab. Drill baseplates at all four corners for 3/4 inch (19 mm) anchor bolts.
   b. Where bollards are anchored to sloping concrete slabs, angle baseplates for plumb alignment of bollards.
5. Fabricate sleeves for bollard anchorage from steel pipe or tubing with 1/4 inch (6.4 mm) thick steel plate welded to bottom of sleeve. Make sleeves not less than 8 inches (200 mm) deep and 3/4 inch (19 mm) larger than OD of bollard.

2.4 ~~CATWALK STRUCTURES~~

A. ~~General:~~
   1. ~~Coordinate catwalk requirements with Architectural, Structural, and Theater Drawings and Specifications.~~
   2. ~~Fabricate from steel shapes as indicated on Drawings.~~
   3. ~~Provide attachments and all catwalk accessories and miscellaneous supports as indicated.~~
   4. ~~Weld all joints and grind smooth.~~
   5. ~~Provide catwalk accessories and miscellaneous supports as indicated.~~

B. ~~Framing: Refer to Structural.~~

C. ~~Platforms:~~
   1. ~~Refer to Section 05 53 00 - Metal Gratings for platform and stair grating requirements.~~
   2. ~~Ends of grating shall be banded at supports.~~
   3. ~~Weld grating to supports at bearing bars and banded ends. Align all bars in adjacent panels.~~

D. ~~Railings:~~
   1. ~~Refer to Section 05 52 00 - Metal Railings for railing requirements.~~

E. ~~Finish:~~
   1. ~~Shop prime paint and field paint under Section 09 90 00 - Painting and Coating.~~

2.5 ~~ELEVATOR PIT SUMP COVERS~~

A. ~~Fabricate from 3/16 inch (4.8 mm) steel plate with four 1 inch (25 mm) diameter holes for water drainage and for lifting.~~
   1. ~~Fabricate from welded or pressure locked steel bar grating Limit openings in gratings to no more than 3/4 inch (19 mm) in least dimension.~~
   2. ~~Provide steel angle supports as indicated.~~

2.6 ~~FOLDING METAL GATES~~

A. ~~Description: Steel scissor-type gate.~~
   1. ~~Type: Scissor-Type single, pair, and door gate.~~
   2. ~~Finish: Galvanized Steel.~~
   3. ~~Webbing: Heavy-duty, 14 gauge, U-channel riveted back-to-back with zinc-plated rivets.~~
   4. ~~Frame: Heavy-Duty, 12 Gauge, 1-1/2 inch x 1-1/2 inch Vertical Angle Frame.~~
   5. ~~Casters: Solid Steel.~~
   6. ~~Locking:~~
      a. ~~Single Gate shall include heavy-duty 12 gauge zinc-plated angle locking bar with 3/16 inch padlock hasp. Lock shall be on right unless noted otherwise.~~

b. ~~Paired Gate shall meet in middle and lock with 3/16 inch padlock hasp.~~
c. ~~Door Gate shall include heavy-duty 12 gauge zinc-plated angle locking bar with 3/16 inch padlock hasp which shall lock to right wall unless noted otherwise.~~

7. ~~Mounting: Can be mounted to wall, door frame, or attached to free standing.~~
8. ~~Size:~~
   a. ~~Height: 8 feet, unless noted otherwise.~~
   b. ~~Width: As required.~~
9. ~~Basis of Design: "Heavy-Duty Folding Gates" manufactured by Illinois Engineered Products.~~

2.7 GUARDS

A. Equipment Guards
   1. Provide metal tube framing for security and public safety around equipment where indicated on Drawings.
   2. Fabricate equipment guards from 1-1/2 inch O.D. steel tube.
   3. Finish Paint Federal Yellow or add stripe caution reflective tape.

B. Pipe and Downspout Guards
   1. Fabricate pipe and downspout guards from 3/8 inch (9.5 mm) thick by 12 inch (300 mm) wide steel plate, bent to fit flat against the wall or column at both ends and to fit around pipe with two-inch (50 mm) clearance between pipe and pipe guard. Drill each end for two (2) 3/4-inch (19 mm) anchor bolts.
   2. Galvanize and prime pipe, downspout guards.

2.8 LADDERS

A. Comply with ANSI A14.3. For elevator pit ladders, comply with ASME A17.1/CSA B44

B. Aluminum Ladders:
   1. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
   2. Space siderails 18 inches (457 mm) apart unless otherwise indicated.
   3. Siderails: Continuous extruded-aluminum channels or tubes, not less than 2-1/2 inches (64 mm) deep, 3/4 inch (19 mm) wide, and 1/8 inch (3.2 mm) thick.
   4. Rungs: Extruded aluminum tubes, not less than 3/4 inch (19 mm) deep and not less than 1/8 inch (3.2 mm) thick, with ribbed tread surfaces.
   5. Fit rungs in centerline of siderails; fasten by welding or with stainless steel fasteners or brackets and aluminum rivets.
   6. Provide platforms as indicated fabricated from pressure locked aluminum bar grating, supported by extruded aluminum framing. Limit openings in gratings to no more than 1/2 inch (12 mm) in least dimension.
   7. Support each ladder at top and bottom and not more than 60 inches (1500 mm) o.c. with welded or bolted aluminum brackets.
   8. Provide minimum 72 inch (1830 mm) high, hinged security door with padlock hasp at foot of ladder to prevent unauthorized ladder use.

2.9 LADDER SAFETY CAGES

A. Fabricate ladder safety cages to comply with ANSI A14.3. Assemble by welding or with stainless steel fasteners.
   1. Provide primary hoops at tops and bottoms of cages and spaced not more than 20 feet (6 m) o.c. Provide secondary intermediate hoops spaced not more than 48 inches (1200 mm) o.c. between primary hoops.
   2. Fasten assembled safety cage to ladder rails and adjacent construction by welding or with stainless steel fasteners unless otherwise indicated.

B. Aluminum Ladder Safety Cages:

1. Primary Hoops: 1/4 inch by 4 inch (6.4 mm by 100 mm) flat bar hoops.
2. Secondary Intermediate Hoops: 1/4 inch by 2 inch (6.4 mm by 50 mm) flat bar hoops.
3. Vertical Bars: 1/4 inch by 2 inch (6.4 mm by 50 mm) flat bars secured to each hoop.

2.10 ~~BAND TOWER~~

A. ~~Basis of Design: KC Metal Works or approved equal.~~
   1. ~~Engineered stamped drawing for the permitting, construction and installation of the tower installation on grade.~~
   2. ~~Install new foundation and tower - refer to structural drawings for foundation.~~
   3. ~~One 10 foot by 5 foot platform elevated at 10 feet above finished ground floor surface.~~
   4. ~~Spiral Staircase should only be installed to elevated platform.~~
   5. ~~Each platform to be surrounded by 4 foot tall 3-rail railing.~~
   6. ~~Provide galvanized metal fully covered sunscreen top 10 feet above the elevated platform.~~
   7. ~~Engineered welded steel construction.~~
   8. ~~Tower to include a 24 inch wide spiral staircase that is 24 feet tall to reach first and top platforms.~~
   9. ~~Safety chains are to be placed at each level crossing openings to stairs.~~
   10. ~~6 foot cage to be installed around the base of the stiars with a lockable door.~~
   11. ~~To built per OSHA standards.~~
   12. ~~Finish : Galvanized.~~

2.11 MISCELLANEOUS FRAMING AND SUPPORTS

A. Provide steel framing and supports necessary to complete the work and which are not a part of the structural framework, including but not limited to the following:
   1. Ceiling-hung toilet compartments.
   2. CMU partition head.
   3. Coiling overhead door.
   4. Coiling overhead grille.
   5. Countertop and vanities.
   6. ~~Elevator hoistway beams~~
   7. ~~Elevator door sills.~~
   8. Equipment.
   9. Horizontal sliding grilles.
   10. Loose bearing and leveling plates
   11. Loose steel lintels.
   12. Operable partition supports.
   13. Partial-height partition reinforcing tube steel.
   14. Shelf angles.

B. Fabrication, General:
   1. Fabricate from steel shapes, plates, and bars of welded construction unless otherwise indicated.
   2. Fabricate to sizes, shapes, and profiles indicated on Drawings and as necessary to receive adjacent construction. Cut, drill, and tap units to receive hardware, hangers, and similar items:
   3. Cut, drill, and tap units to receive hardware, hangers, and similar items.
   4. Fabricate units from slotted channel framing where indicated.
   5. Provide inserts for units installed after concrete is placed.

C. Ceiling-Hung Toilet Partition Supports:
   1. Framing for Ceiling Hung Toilet Compartments: Provide framing for ceiling hung toilet compartments, coordinated with the partitions and including provisions for partition anchorage as required to sustain imposed loads and to limit deflections to L/360 between hangers, fabricated from the following.
      a. Structural Steel Shapes, Plates and Bars: ASTM A36/A36M.

b. Modular Structural Framing System: ASTM A1011/A1011M; modular, structural quality steel preformed U-channel framing system with continuous open slot prepared to receive attachment nuts, bolts, straps, threaded rods, beam clamps, hanger rods support brackets and other accessories. Provide corrosion resistant finish.
c. Provide steel rods, 1/2 inch (13 mm) diameter, spaced at maximum 36 inches (900 mm) o.c. Thread rods to receive anchor and stop nuts. Fit hangers with wedge shape washers for full bearing on sloping flanges of support beam.
d. Coordinate installation with toilet compartment manufacturer's written instructions and recommendations.

D. CMU Partition Head Supports:
1. Fabricate supports from 4 inch x 4 inch x 1/4 inch by 36 inch (100 mm by 100 mm by 6 mm by 900 mm) long structural steel angles. Drill supports a maximum of 12 inches (300 mm) o.c. to receive expansion bolts.

E. Loose Bearing and Leveling Plates:
1. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction.
a. Drill plates to receive anchor bolts and for grouting.
b. Galvanize plates

F. Operable Partition Supports:
1. Fabricate supports for operable partitions from continuous steel beams of sizes recommended by partition manufacturer with attached bearing plates, anchors, and braces as recommended by partition manufacturer. Drill or punch bottom flanges of beams to receive partition track hanger rods; locate holes where indicated on operable partition Shop Drawings.

G. Shelf Angles:
1. Fabricate shelf angles from steel angles of sizes indicated and for attachment to concrete framing. Provide horizontally slotted holes to receive 3/4 inch (19 mm) bolts, spaced not more than 6 inches (150 mm) from ends and 24 inches (600 mm) o.c., unless otherwise indicated.
a. Provide mitered and welded units at corners.
b. Provide open joints in shelf angles at expansion and control joints. Make open joint approximately 2 inches (50 mm) larger than expansion or control joint.
c. For cavity walls, provide vertical channel brackets to support angles from backup masonry and concrete.
d. Galvanize and prime shelf angles located in exterior walls.
e. Prime shelf angles located in exterior walls with zinc rich primer.
f. Furnish wedge type concrete inserts, complete with fasteners, to attach shelf angles to cast in place concrete.

2.12 FABRICATION TOLERANCES

A. Squareness: 1/8 inch (3 mm) maximum difference in diagonal measurements.

B. Maximum Offset Between Faces: 1/16 inch (1.5 mm).

C. Maximum Misalignment of Adjacent Members: 1/16 inch (1.5 mm).

D. Maximum Bow: 1/8 inch (3 mm) in 48 inches (1.2 m).

E. Maximum Deviation from Plane: 1/16 inch (1.5 mm) in 48 inches (1.2 m).

2.13 FINISHES

A. Finish metal fabrications after assembly.

B. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.14 ALUMINUM FINISHES

A. As-Fabricated Finish: AA-M12.

B. Clear Anodic Finish: AAMA 611, Class I, AA-M12C22A41.
   1. Class I, Clear Anodic Finish: AA-M12C22A41 (Mechanical Finish: non-specular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, clear coating 0.018 mm or thicker) complying with AAMA 607.1.

2.15 STAINLESS STEEL FINISHES

A. Grind and polish surfaces to produce uniform, directionally textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

B. Bright, Directional Polish: No. 4 finish.

C. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

2.16 STEEL AND IRON FINISHES

A. Galvanizing:
   1. Hot-dip galvanize items as indicated to comply with ASTM A153/A153M for steel and iron hardware and with ASTM A123/A123M for other steel and iron products:
      a. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.

B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

C. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.

D. Preparation for Shop Priming:
   1. Prepare surfaces to comply with requirements indicated below:
      a. Exterior items: SSPC SP6/NACE No. 3, "Commercial Blast Cleaning."
      b. Items indicated to receive zinc-rich primer: SSPC SP6/NACE No. 3, "Commercial Blast Cleaning."
      c. Items indicated to receive primers specified in Section 09 96 00 - High-Performance Coatings: SSPC SP6/NACE No. 3, "Commercial Blast Cleaning."
      d. Other items: SSPC SP3, "Power Tool Cleaning."

E. Shop Priming:
   1. Apply shop primer to comply with SSPC PA1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting:
      a. Stripe paint corners, crevices, bolts, welds, and sharp edges.

PART 3 EXECUTION

3.1 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

3.2 FIELD CONDITIONS

A. Field Measurements:
   1. Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication:

a. Established dimensions: Where field measurements cannot be made without delaying the work, establish dimensions and proceed with fabricating metal fabrications without field measurements. Coordinate wall and other contiguous construction to ensure that actual dimensions correspond to established dimensions.
b. Provide allowance for trimming and fitting at site.

3.3 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation, with edges and surfaces level, plumb, true, and free of rack, and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding:
1. Comply with the following requirements:
a. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
b. Obtain fusion without undercut or overlap.
c. Remove welding flux immediately.
d. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

F. Corrosion Protection:
1. Coat concealed surfaces of aluminum that come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:
a. Cast aluminum: Heavy coat of bituminous paint.
b. Extruded aluminum: Two (2) coats of clear lacquer.

3.4 INSTALLING BEARING AND LEVELING PLATES

A. Clean concrete and masonry bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of plates.

B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with non-shrink grout. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.5 INSTALLING BOLLARDS

A. Fill metal capped bollards solidly with concrete and allow concrete to cure seven days before installing.
1. Do not fill removable bollards with concrete.

B. Install plumb.

C. Backfill as indicated on Drawings.

3.6 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

A. Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on shop drawings.

B. Anchor supports for ceiling-hung toilet partitions, operable partitions, overhead coiling doors, and overhead coiling grilles securely to, and rigidly braced from, building structure.
   1. Ceiling Hung Toilet Partitions: Anchor supports securely to, and rigidly brace from, overhead building structure.
   2. CMU Partition Head Supports: Unless otherwise indicated place partition head supports on alternate faces of CMU partitions every 6 feet o.c. and expansion bolt to underside of structure. Do not bolt to CMU partitions.

3.7 ERECTION TOLERANCES

A. Maximum Variation from Plumb: 1/4 inch (6mm) per story, noncumulative.

B. Maximum Offset from True Alignment: 1/4 inch (6mm).

C. Maximum Out of Position: 1/4 inch (6mm).

3.8 ADJUSTING AND CLEANING

A. Touchup Painting:
   1. Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC PA1 for touching up shop painted surfaces:
      a. Apply by brush or spray to provide a minimum 2.0 mil (0.05 mm) dry film thickness.
   2. Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Section 09 90 00 - Painting and Coating.

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A780/A780M.

END OF SECTION 05 50 00

SECTION 08 44 13 - GLAZED ALUMINUM CURTAIN WALLS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Aluminum-framed curtain wall, with vision glazing and glass and metal infill panels.

B. Related Sections:
   1. Section 08 80 00 - Glazing.

1.3 REFERENCE STANDARDS

A. AAMA CW-10 - Care and Handling of Architectural Aluminum From Shop to Site; 2015.

B. AAMA 501.2 - Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems; 2015.

C. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum (Combined Document); 2015.

D. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2020.

E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

F. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.

G. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Coordinate with installation of other components that comprise the exterior enclosure.

B. Preinstallation Meeting: Conduct a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.

1.5 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Proceduresfor submittal procedures.

B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, internal drainage details, glazing, and infill.

C. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion and contraction joint location and details, and field welding required.

D. Shop Drawings: Provide details of proposed structural sealant glazing (SSG) and weather sealant joints indicating dimensions, materials, bite, thicknesses, profile, and support framing.

E. Samples: Submit two samples 12 by 12 inches (305 by 305 mm) in size illustrating finished aluminum surface, glazing, infill panels, and glazing materials.

F. Design Data: Provide framing member structural and physical characteristics and engineering calculations, and identify dimensional limitations; include load calculations at points of attachment to building structure.

G. Test Reports: Submit results of full-size mock-up testing. Reports of tests previously performed on the same design are acceptable.

H. Field Quality Control Submittals: Report of field testing for water penetration and air leakage.

I. Designer's Qualification Statement.

J. Installer's Qualification Statement.

K. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.6 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Accessibility Requirements: Comply with applicable requirements.
      a. Texas Accessibility Standards (TAS) 2012.

B. Designer Qualifications: Design curtain wall and its structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed at the State in which the Project is located.

C. Full-Size Mock-up Testing: Have a specimen representative of project conditions tested by an independent testing agency for compliance with specified thermal, structural, air infiltration, water penetration, and sound attenuation criteria.

D. Verify that each component is appropriate for use in structural sealant glazing (SSG) application in regards to at least the following properties; size, shape, dimensions, material, self-life, storage conditions, and color.

E. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.

1.7 MOCK-UPS

A. See Section 01 40 00 - Quality Requirements for additional requirements.

B. Provide mock-up including each component being used on the project. Assemble to illustrate component assembly including glazing materials, weep drainage system, attachments, anchors, and perimeter sealant.

C. Locate on-site where directed by Architect; mock-up may remain as part of the Work.

D. Locate off-site where directed, and remove when directed.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Handle products of this section in accordance with AAMA CW-10.

B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.

1.9 FIELD CONDITIONS

A. Do not install sealants when ambient temperature is less than 40 degrees F (5 degrees C). Maintain this minimum temperature during and 48 hours after installation.

1.10 WARRANTY

A. Refer to Section 01 77 00 - Closeout Procedures for additional warranty requirements.

B. Provide five year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units.

C. Provide five year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Specifications are based on the products identified as Basis of Design. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.

1. Arcadia, Inc: www.arcadiainc.com/#sle.
2. Boyd Aluminum: www.boydaluminum.com/#sle.
3. Coral Architectural Products, a division of Coral Industries, Inc: www.coralap.com/#sle.
4. HMI: www.hmiglass.com/#sle.
5. Kawneer North America: www.kawneer.com/#sle.
6. Manko Window Systems, Inc: www.mankowindows.com/#sle.
7. Oldcastle Building Envelope: www.oldcastlebe.com/#sle.
8. Solar Innovations, Inc: www.solarinnovations.com/#sle.
9. Trulite Glass & Aluminum Solutions, LLC: www.trulite.com/#sle.
10. Unicel Architectural Corp: www.unicelarchitectural.com/#sle.
11. Wausau Window and Wall Systems: www.wausauwindow.com/#sle.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

2.2 BASIS OF DESIGN

2.3 CURTAIN WALL

A. Aluminum-Framed Curtain Wall: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
   1. Finish: Class I natural anodized.
      a. Factory finish surfaces that will be exposed in completed assemblies.
      b. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
   2. Provide flush joints and corners, weathersealed, accurately fitted and secured; prepared to receive anchors; fasteners and attachments concealed from view; reinforced as required for imposed loads.
   3. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
   4. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.

B. Structural Performance Requirements: Design and size components to withstand the following load requirements without damage or permanent set.
   1. Design Wind Loads: Comply with the applicable code.
   2. Movement: Accommodate the following movement without damage to components or deterioration of seals:
      a. Expansion and contraction caused by 180 degrees F (82 degrees C) surface temperature.
      b. Expansion and contraction caused by cycling temperature range of 170 degrees F (77 degrees C) over a 12 hour period.
      c. Movement of curtain wall relative to perimeter framing.
      d. Deflection of structural support framing, under permanent and dynamic loads.

C. Water Penetration Resistance on Manufactured Assembly: No uncontrolled water on indoor face when tested as follows:
   1. Test Pressure Differential: 10 psf (480 Pa).

D. Air Leakage: 0.06 cfm/sq ft (0.3 L/sec sq m) maximum leakage of wall area when tested in accordance with ASTM E283/E283M at 6.27 psf (300 Pa) pressure difference across assembly.

2.4 COMPONENTS

A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
   1. Framing members for interior applications need not be thermally broken.
   2. Cross-Section: As indicated on drawings.

B. Glazing:

1. Types: Refer to Section 08 80 00 - Glazing.
2. Locations: Refer to Drawings.

2.5 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M).

B. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.

C. Glazing Accessories: See Section 08 80 00.

2.6 FINISHES

A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 ~~Clear anodic~~Dark Bronze coating not less than 0.7 mils (0.018 mm) thick.

B. Color: As indicated on drawings.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install curtain wall system in accordance with manufacturer's instructions.

B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.

C. Provide alignment attachments and shims to permanently fasten system to building structure.

D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

E. Provide thermal isolation where components penetrate or disrupt building insulation.

F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.

G. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.2 TOLERANCES

A. Maximum Variation from Plumb: 0.06 inches every 3 ft (1.5 mm/m) non-cumulative or 0.5 inches per 100 ft (12 mm/30 m), whichever is less.

B. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch (0.8 mm).

C. Sealant Space Between Curtain Wall Mullions and Adjacent Construction: Maximum of 3/4 inch (19 mm) and minimum of 1/4 inch (6 mm).

3.3 FIELD QUALITY CONTROL

A. Provide services of curtain wall manufacturer's field representative to observe for proper installation of system and submit report.

B. See Section 01 40 00 - Quality Requirements for general testing and inspection requirements.

C. Water-Spray Test: Provide water spray quality test of installed curtain wall components in accordance with AAMA 501.2 during construction process and before installation of interior finishes.
   1. Perform a minimum of two tests in each designated area as indicated on drawings.
   2. Conduct tests in each area prior to 10 percent and 50 percent completion of this work.

D. Repair or replace curtain wall components that have failed designated field testing, and retest to verify performance complies with specified requirements.

3.4 ADJUSTING

A. Adjust operating sash for smooth operation.

3.5 CLEANING

A. Remove protective material from pre-finished aluminum surfaces.

B. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths, take care to remove dirt from corners, and wipe surfaces clean.

C. Upon completion of installation, thoroughly clean aluminum surfaces in accordance with AAMA 609 & 610.

3.6 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION 08 44 13

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SECTION 08 91 19 - FIXED LOUVERS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes requirements including but not limited to:
   1. Fixed, extruded aluminum and formed metal louvers.
   2. Accessories necessary for a complete installation.

1.3 REFERENCE STANDARDS

1.4 DEFINITIONS

A. Louver Terminology: Definitions of terms for metal louvers contained in AMCA 501 apply to this Section unless otherwise defined in this Section or in referenced standards.

B. Horizontal Louver: Louver with horizontal blades (i.e., the axes of the blades are horizontal).

C. Vertical Louver: Louver with vertical blades (i.e., the axes of the blades are vertical).

D. Drainable Blade Louver: Louver with blades having gutters that collect water and drain it to channels in jambs and mullions, which carry it to bottom of unit and away from opening.

E. Wind Driven Rain Resistant Louver: Louver that provides specified wind driven rain performance determined by testing according to AMCA 500-L.

1.5 SUBMITTALS

A. Product Data: Technical data for each type of product indicated. For louvers specified to bear AMCA seal, include printed catalog pages showing specified models with appropriate AMCA Certified Ratings Seals.

B. Shop Drawings:
   1. For louvers and accessories. Include plans, elevations, sections, details, and attachments to other work. Show frame profiles and blade profiles, angles, and spacing:
      a. Show weep paths, gaskets, flashing, sealant, and other means of preventing water intrusion.
      b. Show mullion profiles and locations.
      c. Windstorm: Design loads as indicated on drawings.

C. Samples: Submit for units with factory applied color finishes.

1.6 QUALITY ASSURANCE

A. Delegated Design Submittal: For louvers indicated to comply with structural [and seismic] performance requirements, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

B. Product Test Reports: Based on evaluation of comprehensive tests performed according to AMCA 500-L by a qualified testing agency or by manufacturer and witnessed by a qualified testing agency, for each type of louver and showing compliance with performance requirements specified.

C. Windborne debris impact resistance test reports.

D. Regulatory Requirements:
   1. SMACNA Standard: Comply with recommendations in SMACNA Architectural Sheet Metal Manual for fabrication, construction details, and installation procedures.
   2. Welding - Qualify procedures and personnel according to the following:
      a. AWS D1.2/D1.2M Structural Welding Code - Aluminum.

E. Source Limitations: Obtain louvers and vents from single source from a single manufacturer where indicated to be of same type, design, or factory applied color finish.

PART 2 PRODUCTS

2.1 MATERIALS

A. Aluminum Extrusions: ASTM B221, Alloy 6063-T5, T-52, or T6.

B. Aluminum Sheet: ASTM B209/B209M, Alloy 3003 or 5005 with temper as required for forming, or as otherwise recommended by metal producer for required finish.

C. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) zinc coating, mill phosphatized.

D. Stainless Steel Sheet: ASTM A240/A240M, Type 304, No. 4 finish, with grain running parallel to length of blades and frame members..

E. Fasteners - Use types and sizes to suit unit installation conditions:
1. Use tamper resistant screws for exposed fasteners unless otherwise indicated.
2. For fastening aluminum, use aluminum or 300 series stainless-steel fasteners.
3. For fastening galvanized steel, use hot dip galvanized steel or 300 series stainless steel fasteners.
4. For fastening stainless steel, use 300 series stainless-steel fasteners.
5. For color finished louvers, use fasteners with heads that match color of louvers.

F. Post installed Fasteners for Concrete and Masonry: Torque controlled expansion anchors, made from stainless-steel components, with capability to sustain, without failure, a load equal to 4 times the loads imposed, for concrete, or 6 times the load imposed for masonry, as determined by testing according to ASTM E488/E488M, conducted by a qualified independent testing agency.

G. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

2.2 FIXED, EXTRUDED ALUMINUM LOUVERS

A. Horizontal Continuous Line, Drainable Blade Louver: Drainable blade louver with blade gutters (drains) in rear two/thirds of blades only and with semirecessed mullions capable of collecting and draining water from blades:
1. Manufacturers are subject to compliance with requirements. Provide products of one of the following:
   a. Airolite Company, LLC (The).
   b. Arrow United Industries.
   c. Construction Specialties, Inc.
   d. Greenheck Fan Corporation.
   e. Ruskin Company; Tomkins PLC.
2. Basis of Design: K6746MD as manufactured by Arolite.
3. Louver Size: Refer to Drawings.
4. Frame and Blade Nominal Thickness: Not less than 0.080 inch (2.03 mm).
5. Louver Performance Ratings:
   a. Free Area: ~~Not less than 7.8 sq. ft. (0.72 sq. m) for 48 inch (1220 mm) wide by 48 inch (1220 mm) high louver.~~ Not less than 40% free area for all high louvers.
   b. Point of Beginning Water Penetration: Not less than 850 fpm (4.3 m/s).
   c. Air Performance: Not more than 0.10 inch wg (25 Pa) static pressure drop at 800 fpm (4.1 m/s) free area exhaust velocity.

2.3 FABRICATION

A. Factory assemble louvers to minimize field splicing and assembly. Disassemble units as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

B. Vertical Assemblies:

1. Where height of louver units exceeds fabrication and handling limitations, fabricate units to permit field bolted assembly with close fitting joints in jambs and mullions, reinforced with splice plates:
    a. Continuous Vertical Assemblies: Fabricate units without interrupting blade spacing pattern unless horizontal mullions are indicated.
    b. Horizontal Mullions: Provide horizontal mullions at joints unless continuous vertical assemblies are indicated.

C. Maintain equal louver blade spacing, including separation between blades and frames at head and sill to produce uniform appearance.

D. Fabricate frames, including integral sills, to fit in openings of sizes indicated, with allowances made for fabrication and installation tolerances, adjoining material tolerances, and perimeter sealant joints.

E. Include supports, anchorages, and accessories required for complete assembly.

F. Provide vertical mullions of type and at spacings indicated, but not more than is recommended by manufacturer, or 72 inches (1830 mm) o.c., whichever is less:
1. Fully Recessed Mullions: Where indicated, provide mullions fully recessed behind louver blades. Where length of louver exceeds fabrication and handling limitations, fabricate with close fitting blade splices designed to permit expansion and contraction.
2. Semirecessed Mullions: Where indicated, provide mullions partly recessed behind louver blades so louver blades appear continuous. Where length of louver exceeds fabrication and handling limitations, fabricate with interlocking split mullions and close-fitting blade splices designed to permit expansion and contraction.
3. Exposed Mullions: Where indicated, provide units with exposed mullions of same width and depth as louver frame. Where length of louver exceeds fabrication and handling limitations, provide interlocking split mullions designed to permit expansion and contraction.
4. Exterior Corners: Prefabricated corner units with mitered blades with concealed close fitting splices and with fully recessed mullions at corners.

G. Provide subsills made of same material as louvers or extended sills for recessed louvers.

H. Join frame members to each other and to fixed louver blades with fillet welds concealed from view, unless otherwise indicated or size of louver assembly makes bolted connections between frame members necessary.

2.4 FINSHES

A. Comply with NAAMM Metal Finishes Manual for Architectural and Metal Products for recommendations for applying and designating finishes.

B. Aluminum Finishes:
1. Finish louvers after assembly.
2. Baked Enamel or Powder Coat Finish:
    a. AAMA 2603 except with a minimum dry film thickness of 1.5 mils (0.04 mm). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish:
        1) Color and Gloss: Selected by Architect.
3. High Performance Organic Finish:
    a. Two coat fluoropolymer finish complying with AAMA 2605 and containing not less than 50 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions:
        1) Color and Gloss: Selected by Architect.

C. Galvanized Steel Sheet Finishes:
1. Finish louvers after assembly.

2. Surface Preparation: Clean surfaces with nonpetroleum solvent so surfaces are free of oil and other contaminants. After cleaning, apply a conversion coating compatible with the organic coating to be applied over it. Clean welds, mechanical connections, and abraded areas and repair according to ASTM A780/A780M.
3. Baked Enamel or Powder Coat Finish:
   a. Immediately after cleaning and pretreating, apply two coat, baked on finish consisting of prime coat and thermosetting topcoat, with a minimum dry film thickness of 2 mils (0.05 mm):
      1) Color and Gloss: Selected by Architect.

D. Stainless Steel Sheet Finishes: Repair sheet finish by grinding and polishing irregularities, weld spatter, scratches, and forming marks to match surrounding finish.

PART 3 EXECUTION

3.1 FIELD CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

3.2 EXAMINATION

A. Examine substrates and openings, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation after correcting unsatisfactory conditions.

3.3 PREPARATION

A. Coordinate setting drawings, diagrams, templates, instructions, and directions for installation of anchorages that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to Project site.

3.4 INSTALLATION

A. Locate and place louvers level, plumb, and at indicated alignment with adjacent work.

B. Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.

C. Form closely fitted joints with exposed connections accurately located and secured.

D. Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.

E. Repair finishes damaged by cutting, welding, soldering, and grinding. Restore finishes so no evidence remains of corrective work. Return items that cannot be refinished in the field to the factory, make required alterations, and refinish entire unit or provide new units.

F. Protect unpainted galvanized and nonferrous-metal surfaces that are in contact with concrete, masonry, or dissimilar metals from corrosion and galvanic action by applying a heavy coating of bituminous paint or by separating surfaces with waterproof gaskets or nonmetallic flashing.

G. Install concealed gaskets, flashings, joint fillers, and insulation as louver installation progresses, where weathertight louver joints are required. Comply with Section 07 92 00 for sealants applied during louver installation.

3.5 ADJUSTING AND CLEANING

A. Clean exposed louver surfaces that are not protected by temporary covering, to remove fingerprints and soil during construction period. Do not let soil accumulate during construction period.

B. Before final inspection, clean exposed surfaces with water and a mild soap or detergent not harmful to finishes. Thoroughly rinse surfaces and dry.

C. Restore louvers damaged during installation and construction so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by Architect, remove damaged units and replace with new units:
   1. Touch up minor abrasions in finishes with air dried coating that matches color and gloss of, and is compatible with, factory applied finish coating.

END OF SECTION 08 91 19

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SECTION 09 81 00 - ACOUSTIC INSULATION

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Fiberglass batt acoustical insulation.
   2. Sprayed cellulose fiber acoustical insulation.)

B. Related Sections:
   1. Section 09 21 16 - Gypsum Board Assemblies: Acoustically-rated partitions.
   2. Section 09 90 00 - Painting and Coating: Painting of spray-applied acoustic insulation.

1.3 REFERENCE STANDARDS

A. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2017.

B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2022.

C. ASTM E605/E605M - Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members; 2019 (Reapproved 2023).

D. ASTM E736/E736M - Standard Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members; 2019 (Reapproved 2023).

E. ASTM E759/E759M - Standard Test Method for Effect of Deflection on Sprayed Fire-Resistive Material Applied to Structural Members; 1992 (Reapproved 2023).

1.4 SYSTEMS DESCRIPTION

A. Contractor must use a total system, encompassing equipment, fiber and adhesive as supplied and tested by the manufacturer. No substitution.

B. Fibers supplied under this Section shall have each bag coded with the date and lot number of manufactures and retained samples shall be kept by the manufacturer for not less than 1 year.

C. Contractor must be licensed and trained by the manufacturer.

1.5 SUBMITTALS

A. Product Data:
   1. Manufacturer’s specifications and other data needed to prove compliance with specified requirements.
   2. Manufacturer’s installation instructions.

B. Certification:
   1. Manufacturer's certificate that the product meets or exceeds specified requirements.
   2. Manufacturer's written certification that product contains no asbestos, and that sprayed-cellulose fiber acoustical insulation contains no fiberglass or other man made mineral fibers.

1.6 QUALITY ASSURANCE

A. Qualifications:
   1. Manufacturers.
   2. Suppliers.
   3. Installers/Applicators.

1.7 DELIVERY, STORAGE AND HANDLING

A. Materials shall be delivered in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.

B. Store materials off ground, under cover and away from damp surfaces and keep material dry at all times.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Specifications are based on products of manufacturers named as the Basis of Design. Manufacturers listed whose products meet or exceed the specifications are approved for use on the Project. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
   1. Batt Insulation (Walls and Ceilings):
      a. CertainTeed Corp. (CertaPro AcoustaTherm).
      b. Guardian Fiberglass, Inc. (Thermal & Sound Control Batts).
      c. Johns-Manville (Sound-SHIELD Sound Control Batts).
      d. Knauf (EcoBatt with ECOSE).
      e. Owens-Corning (Above Ceiling – Sonobatts; Walls – Sound Batt).
      f. Thermafiber Sound Attenuation Fire Blanket (SAFB) Insulation.
   2. Spray-Applied Acoustic Insulation:

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

2.2 MATERIALS

A. Acoustic Batt Insulation:
   1. Type: ASTM C665, Type 1, unfaced.
   2. Surface Burning Characteristics:
      a. Flame Spread: 25 or less.
      b. Smoke Developed: 50 or less.
   3. Thickness (minimum): As indicated on Drawings.
      a. ~~Auditorium:~~
         1) ~~Thickness: 3 inches.~~
         2) ~~Color: Black.~~
      b. ~~Cafeteria~~ Stage:
         1) Thickness: 1 inch.
         2) Color: Black.
      c. ~~Competition~~ Gymnasium and Cafeteria:
         1) Thickness: 1.5 inches.
         2) Color: Custom Color to be selected by Architect at a later date.
      d. ~~Auxiliary Gymnasium:~~
         1) ~~Thickness: 1.5 inches.~~
         2) ~~Color: Custom Color to be selected by Architect at a later date.~~
      e. ~~Practice Gymnasium:~~
         1) ~~Thickness: 1.5 inches.~~
         2) ~~Color: Custom Color to be selected by Architect at a later date.~~
      f. ~~Dance Room:~~
         1) ~~Thickness: 1.5 inches.~~
         2) ~~Color: Black.~~
      g. ~~Multi-Purpose Room:~~
         1) ~~Thickness: 1.5 inches.~~
         2) ~~Color: Black.~~

B. Spray-Applied Acoustic Insulation:

1. Color: Black, unless noted otherwise.
2. Field-tested bond strength report per ASTM E736/E736M: Tested at over 5 years / Not less than 400 psf / Not less than 600 times its weight at one (1) inch
3. Fire Resistance per ASTM E84: Tested at a minimum of five (5) inch thickness, Class I
   a. Flame Spread: Not To Exceed Five (5).
   b. Smoke Development: Not To Exceed Five (5).
4. Sprayed insulation shall meet appropriate Building Code Requirements.
5. Thickness: 1-1/2 inch minimum typical. Thickness shall be determined in accordance with ASTM E605/E605M field test procedure.
6. Bond Deflection per ASTM E759/E759M: 6 inch deflection in 10 foot span - no spalling or delamination.
7. Cohesive Strength at time of application per Method WS-2000: >700 Grams.
8. Basis of Design: “K-13 Spray-On-Systems” manufactured by International Cellulose Corporation.
9. Thickness (minimum) and Color:
   a. ~~Auditorium:~~
      1) ~~Thickness: 3 inches.~~
      2) ~~Color: Black.~~
   b. ~~Cafeteria~~ Stage:
      1) Thickness: 1 inch.
      2) Color: Black.
   c. ~~Competition~~ Gymnasium and Cafeteria:
      1) Thickness: 1.5 inches.
      2) Color: Custom Color to be selected by Architect at a later date.
   d. ~~Auxiliary Gymnasium:~~
      1) ~~Thickness: 1.5 inches.~~
      2) ~~Color: Custom Color to be selected by Architect at a later date.~~
   e. ~~Practice Gymnasium:~~
      1) ~~Thickness: 1.5 inches.~~
      2) ~~Color: Custom Color to be selected by Architect at a later date.~~
   f. ~~Dance Room:~~
      1) ~~Thickness: 1 inch.~~
      2) ~~Color: Black.~~
   g. ~~Multi-Purpose Room:~~
      1) ~~Thickness: 1 inch.~~
      2) ~~Color: Black.~~

PART 3 EXECUTION

3.1 INSPECTION

A. Examine all surfaces and report all unsatisfactory conditions in writing to Architect. The work shall not proceed until unsatisfactory conditions are corrected.

3.2 PREPARATION

A. Provide masking, drop cloths or other satisfactory coverings for all materials/surfaces, which are not to receive insulation to prevent damage from over-spray.

B. Surfaces to receive spray insulation shall be inspected prior to application to determine if priming/sealing is required to insure bonding and/or to prevent discoloration caused by migratory stains. Prime accordingly.

C. Work shall be coordinated with other trades whose work may be affected or have an effect on the installation of the sprayed cellulose fiber.

3.3 INSTALLATION

A. Installation, clean up and curing shall be accomplished according to the manufacturer's recommendations and common construction standards.

B. Provide natural or mechanical ventilation continuously to properly cure the insulation.

3.4 PROTECTION

A. Protect finished installation from damage caused by work of other trades.

END OF SECTION 09 81 00

SECTION 10 11 00 - VISUAL DISPLAY UNITS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Porcelain enamel steel markerboards.
   2. Tackboards.
   3. Aluminum slatwall display units.
   4. Magnetic wwriteable wall covering.

B. Related Sections:
   1. Section 06 10 00 - Rough Carpentry: Blocking and supports.
   2. Section 06 20 00 - Finish Carpentry: Wood frame and marker rails.
   3. Section 09 21 16 - Gypsum Board Assemblies: Concealed supports in metal stud walls.
   4. Section 09 90 00 - Painting and Coating: Finishing of wood frame and marker rail.
   5. Section 10 22 39 - Folding Panel Partitions: Installation of visual display boards on operable partitions.

1.3 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.

B. ANSI A135.4 - Basic Hardboard; 2012 (Reaffirmed 2020).

C. ANSI A208.1 - American National Standard for Particleboard; 2022.

D. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2015 (Reaffirmed 2020).

E. ASTM A424/A424M - Standard Specification for Steel, Sheet, for Porcelain Enameling; 2025.

F. ASTM C208 - Standard Specification for Cellulosic Fiber Insulating Board; 2022.

G. ASTM C1036 - Standard Specification for Flat Glass; 2021.

H. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.

I. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2019.

J. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2017.

K. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2022.

L. ASTM F793/F793M - Standard Classification of Wall Coverings and Ceiling Coverings by Use Characteristics; 2025.

M. PS 1 - Structural Plywood; 2009 (Revised 2019).

1.4 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures, for submittal procedures.

B. Product Data: Provide manufacturer's data on chalkboard, porcelain enamel steel markerboard, glass markerboard, tackboard, tackboard surface covering, trim, and accessories.

C. Shop Drawings: Indicate wall elevations, dimensions, joint locations, special anchor details.

D. Samples: Color charts for selection of color and texture of chalkboard, porcelain enamel steel markerboard, glass markerboard, tackboard, tackboard surface covering, and trim.

E. Samples: Two, 2 by 2 inches (50 by 50 mm) in size illustrating materials and finish, color and texture of chalkboard, porcelain enamel steel markerboard, glass markerboard, tackboard, tackboard surfacing, and trim.

F. Test Reports: Show compliance to specified surface burning characteristics requirements.

G. Manufacturer's printed installation instructions.

H. Manufacturer's Qualification Statement.

I. Maintenance Data: Include data on regular cleaning, stain removal.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.6 WARRANTY

A. Refer to Section 01 77 00 - Closeout Procedures, for additional warranty requirements.

B. Provide five year warranty for chalkboard and markerboard to include warranty against discoloration due to cleaning, crazing or cracking, and staining.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

2.2 VISUAL DISPLAY UNITS

A. Porcelain Enamel Steel Markerboards:
   1. Model: LCS3 as manufactured by Claridge.
   2. Color: White.
   3. Steel Face Sheet Thickness: 24 gauge, 0.0239 inch (0.61 mm).
   4. Core: Particleboard, manufacturer's standard thickness, laminated to face sheet.
   5. Backing: Aluminum foil, laminated to core.
   6. Size: As indicated on drawings.
   7. Frame: Same as for chalkboards.
   8. Frame: Extruded aluminum , with concealed fasteners.
   9. Frame Profile: As indicated on drawings.
   10. Frame Finish: Anodized, natural.
   11. Accessories: Provide marker tray and map rail.
   12. Manufacturers:
      a. AJW Architectural Products: www.ajw.com/#sle.
      b. ASI Visual Display Products: www.asi-visualdisplayproducts.com/#sle.
      c. Egan Visual Corporation; Egan Visual WhiteBoards: www.egan.com/#sle.
      d. Claridge Products and Equipment, Inc.
      e. Nelson Adams NACO: www.nelsonadamsnaco.com/#sle.
      f. Platinum Visual Solutions.

B. Tackboards: Fine-grained, homogeneous natural cork.
   1. Cork Thickness: 1/8 inch (3 mm).
   2. Fabric: Vinyl coated fabric.
   3. Color: As selected by Architect from manufacturer's full range.
   4. Backing: Hardboard, 1/4 inch (6 mm) thick, laminated to tack surface.
   5. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.

6. Size: As indicated on drawings.
7. Height: 48 inches (1220 mm).
8. Length: As indicated on drawings.
9. Length: 6 feet (1830 mm) , in one piece.
10. Frame: Same type and finish as for chalkboard.
11. Frame: Extruded aluminum , with concealed fasteners.
12. Frame Profile: As indicated on drawings.
13. Frame Finish: Anodized, natural.
14. Accessories: Provide map rail.
15. Manufacturers:
    a. ASI Visual Display Products: www.asi-visualdisplayproducts.com/#sle.
    b. Claridge Products and Equipment, Inc.
    c. Nelson Adams NACO; ____: www.nelsonadamsnaco.com/#sle.
    d. Platinum Visual Solutions.

C. Aluminum Slatwall Display Units: Sizes and configurations indicated on drawings.
1. Finish: Anodized, natural.
2. Length: As indicated on Drawings.
3. Frame Profile: As Indictaed on Drawings.
4. Manufacturers:
    a. Eagle Mouldings, Inc; Aluminum Slatwall: www.eagle-aluminum.com/#sle.
    b. Megawall, Inc: www.megawall.com/#sle.
    c. Orange Aluminum: www.orangealuminum.com/#sle.

D. Magnetic Writeable Wall Covering (WRC):
1. Basis of Design: M259-00 as manufactured by Walltalkers and WriteMAGNETIC 60" as manufactured by WriteWalls. Other acceptable manufactuer's include Koroseal or an Architect apporved equal.
2. Surface Gloss: Matte Finish.
3. Laminate Thickness: 24 mils (0.61 mm).
4. Width: 60 inches.
5. Backing: Woven Polyester.
6. Stain Resistant Coating: Scotchguard by 3M Co. or Tedlar by
7. Flammability Testing Class A: Pass.
8. Color: White.

E. Tackable Display Trail (TDR):
1. Economy and Deluxy Map & Display Rail as manufactured by Clardige Products.
2. Size: 2 inches.
3. Surface material: Tan Nucork.

F. Combination Units and Units Made of More Than One Panel: Factory-assembled chalkboards, markerboards, and tackboards in a single frame, of materials specified above.
1. Join panels of different construction with H-shaped extruded aluminum molding finished to match frame.
2. Join panels of similar construction with butt joints, aligned and secured with steel spline concealed in edge of core.
3. Configuration: As indicated on Drawings.
4. Units Too Large to Ship Assembled: Fully assembled in factory, then disassembled for shipping.

2.3 MATERIALS

A. Porcelain Enameled Steel Sheet: ASTM A424/A424M, Type I, Commercial Steel, with fired-on vitreous finish.

B. Hardboard for Chalk Surface: ANSI A135.4 Tempered type.

C. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
   1. Laminated Safety Glass: Comply with ANSI Z97.1 - Class B or 16 CFR 1201 - Category I impact test requirements.
   2. Polyvinyl Butyral (PVB) Interlayer: 0.030 inch (0.762 mm) thick, minimum.
   3. Ionoplast Interlayer: 0.035 inch (0.889 mm) thick, minimum.

D. Vinyl Coated Fabric: ASTM F793 Category VI.

E. Burlap: Tightly woven, flame retardant treated.

F. Plywood: PS 1 Grade C-D , softwood.

G. Hardboard for Cores: ANSI A135.4, Class 1 - Tempered, S2S (smooth two sides).

H. Particleboard: ANSI A208.1; wood chips, set with waterproof resin binder, sanded faces.

I. Gypsum Board: ASTM C1396/C1396M, paper/foil faced, plain type.

J. Fiber Board: ASTM C208, cellulosic fiber board.

K. Foil Backing: Aluminum foil sheet, 0.005 inch thick (0.13 mm thick).

L. Aluminum Sheet Backing: 27 gauge, 0.014 inch (0.36 mm) thick.

M. Steel Sheet Backing: 28 gauge, 0.0149 inch (0.38 mm), galvanized.

N. Adhesives: Type used by manufacturer.

2.4 ACCESSORIES

A. Wood Frames: Factory assembled red oak, with factory applied clear varnish finish.

B. Wood Frames: Refer to Section 06 20 00 - Finish Carpentry.

C. Map Rail: Extruded aluminum, manufacturer's standard profile, with cork insert and runners for accessories; 1 inch wide overall (; 25 mm wide overall) , full width of frame.

D. Map Supports: Formed aluminum sliding hooks and roller brackets to fit map rail.

E. Temporary Protective Cover: Sheet polyethylene, 8 mil (0.2 mm) thick.

F. Flag Holders: Cast aluminum bored to receive 1 inch (25 mm) diameter flag staff, bracketed to fit top rail of board.

G. Cleaning Instruction Plate: Provide instructions for chalkboard cleaning on a metal plate fastened to perimeter frame near chalkrail.

H. Marker Tray: Aluminum, manufacturer's standard profile, one piece full length of markerboard, molded ends, concealed fasteners, same finish as frame.

I. Marker Tray: Wood; species and finish to match frame, style as indicated on drawings.

J. Mounting Brackets: Concealed.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.

C. Verify flat wall surface for frameless adhesive-applied boards.

3.2 PREPARATION

A. Acclimatize tackable wall panels by removing from packaging in installation area not less than 24 hours before application.

B. Remove switchplates, wall plates, and surface-mounted fixtures where tackable wall paneling is applied. Reinstall items on completion of installation.

C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install boards in accordance with manufacturer's instructions.

B. Install with top of marker tray at 30 inches (760 mm) above finished floor.

C. Secure units level and plumb.

D. Butt Joints: Install with tight hairline joints.

E. Carefully cut holes in boards for thermostats.

F. Install tackable wall panels in accordance with manufacturer's recommendations on specified substrates with concealed attachments.
   1. Fabricate re-wrapped edges where partial panels about each other, or adjacent surfaces or trim.
   2. Re-wrap top, bottom or side edges for cutting panels around door or window openings, abutting trim, protruding objects, and at other openings, including x-cut at receptacles, light switches, and other openings.
      a. Wrap minimum 2 inches (51 mm) around back of panel.
      b. Carefully cut fiber board, leaving vinyl wallcovering intact. Wrap wallcovering tightly around edge of board and adhere continuously around back of panel with manufacturer's recommended vinyl wallcovering adhesive.

3.4 CLEANING

A. Clean board surfaces in accordance with manufacturer's instructions.

B. Cover with protective cover, taped to frame.

C. Remove temporary protective cover at Date of Substantial Completion.

D. Break-in slate chalkboards with a chalk and clean treatment.

END OF SECTION 10 11 00

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SECTION 10 12 00 - DISPLAY CASES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Recessed display cases.

1.2 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry : Blocking and supports.

B. Section 09 21 16 - Gypsum Board Assemblies: Concealed supports in metal stud walls.

1.3 REFERENCE STANDARDS

A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2020.

B. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

C. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

D. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.

E. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.

F. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2022.

1.4 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures, for submittal procedures.

B. Product Data: Submit complete printed data and installation details indicating products to be provided as specified.
   1. Submit color charts for selection by Architect.

C. Shop Drawings: Submit complete installation details. Include dimensioned elevations.

D. Samples: Submit samples of material and trim to illustrate finish, color, and texture.

E. Manufacturer's Qualification Statement.

F. Maintenance Data: _____.

G. Specimen Warranty.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least three years of documented experience.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver display cases and materials to the Project site with manufacturer’s protective crate covering and do not open until ready for use.

B. Protect display cases before, during, and after installation. In case of damage, immediately provide necessary repairs and replacements.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify field measurements for recessed application for display cases before preparation of shop drawings and before fabrication to ensure proper installation.

1.8 WARRANTY

A. Refer to Section 01 77 00 - Closeout Procedures, for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Substantial Completion.

C. Provide five year manufacturer warranty against defects and in materials, finish product and workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
   1. Claridge Products and Equipment, Inc: www.claridgeproducts.com/#sle.
   2. MooreCo, Inc: www.moorecoinc.com/#sle.
   3. Nelson Adams NACO: www.nelsonadamsnaco.com/#sle.
   4. Platinum Visual Solutions.

B. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 DISPLAY CASES

A. Recessed Display Case: Factory-fabricated wood-framed display case with adjustable glass shelves, finished interior, and aluminum trim on face to cover edge of recessed opening.
   1. Size: As indicated in Drawings.
   2. Components:
      a. Glazed Doors: Sliding.
         1) Number of Doors: Two pair.
      b. Side Panels: Stained veneer plywood.
      c. Back Panel: Tackable.
      d. Top Panel: Stained veneer plywood.
      e. Bottom Panel: Stained veneer plywood.
      f. Lighting: LED backlit.
      g. Size: Refer to Drawings.

2.3 COMPONENTS

A. Wood Case Construction: 3/4 inch (19 mm) 7-ply maple veneer plywood with manufacturer's standard stain.

B. Aluminum Framed Case Construction: 1-1/2 inch by 2 inch (38 mm by 51 mm) extruded aluminum tube frame with tempered glass, laminate-faced, and stained veneer plywood infill panels.

C. Aluminum Case Construction: Aluminum side, bottom, and top panels fabricated from extruded aluminum shapes.

D. Face Frame Trim for Recessed Installation: 2 inch (51 mm) flat face dimension extruded aluminum trim mitered with corner clips and mechanical fasteners.

E. Glazed Sliding Doors:
   1. 1/4 inch (6 mm) clear tempered glass with plastic finger pulls.
   2. Door track: Extruded aluminum glass shoe with bottom rollers and top plastic guide.
   3. Lock: Glass door cylinder lock.

F. Glazed Hinged Doors:
   1. 1/4 inch (6 mm) clear tempered glass framed with 1/2 inch by 1 inch (13 mm by 25 mm) extruded aluminum trim.
   2. Hinges: 1 inch by .040 inch (25 mm by 1 mm) nickel-plated steel-continuous piano hinges.
   3. Lock: Glass door cylinder lock.

G. Glass Shelves:
   1. 1/4 inch (6 mm) clear tempered glass with flat-polished edges.

2. Shelf Depth: 6 inches (152 mm).
3. Shelves per Unit: Two.

H. Shelf Standards and Brackets: Single-slotted channel standards for brackets adjustable in 1 inch (25 mm) increments along entire length of standard, drilled and countersunk for screws.
1. Standards Mounting: Recess-mounted into back panel.
2. Face Width: 5/8 inch (16 mm).
3. Material: 16 gauge, 0.0598 inch (1.52 mm) sheet steel.
4. Lengths: As indicated on drawings.
5. Finish: Anochrome.
6. Brackets: Boltless with lip front; 16 gauge, 0.0598 inch (1.52 mm) sheet steel, reinforced, locking into slots; size to suit shelves; same finish as standards.

I. Tackable Back Panel: Fine-grained, homogeneous natural cork on hardboard.
1. Cork Thickness: 1/8 inch (3 mm).
2. Fabric: Vinyl fabric; minimum fabric weight: 13 oz/sq yd (440 g/sq m).
3. Color, Texture, Weave, and Pattern: As selected from manufacturer's full range.
4. Backing: Hardboard, 1/4 inch (6 mm) thick, factory laminated to tack surface.
5. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.

J. Laminate Back Panel: Low-pressure laminate on one face of plywood substrate.
1. Laminate Color and Texture: As selected from manufacturer's full range.

K. Lighting: Manufacturer's standard LED light fixture housed at top of case with louvered aluminum access door with keyed lock.
1. Surface Mounted: Under cabinet type fixture.
2. Recessed: Fixture with egg crate diffuser.
3. Controls: On/Off using dedicated wall switch.

2.4 MATERIALS

A. Aluminum Extrusions for Framing and Trim: Alloy as recommended by manufacturer for construction and specified finish; nominal 1/8 inch (3.2 mm) wall thickness.

B. Aluminum Extrusions: ASTM B221 (ASTM B221M), 6063 alloy, T5 temper.
1. Finish: Factory anodized; AAMA 611: Clear anodized.
2. Finish: Factory finished; AAMA 2603: Powder coat; _____ color.

C. Plywood: Softwood plywood with veneer core, waterproof glue, 3/4 inch (19 mm) thick.

D. Heat-Strengthened and Fully Tempered Glass: ASTM C1048, Kind FT.

PART 3 EXECUTION

3.1 PREPARATION

A. Rough openings, electrical pre-wiring, and final finishing are by other trades.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Provide factory trained installers.

C. Locate fastening devices to secure cases securely to back and sides of rough opening.

D. Install recessed display cases plumb and level in wall openings, ____ inches (____ mm) from finished floor to inside bottom of display case.

E. Refer to drawings for display case mounting heights.

F. Provide vinyl wrapped H-moldings to match vinyl covered boards.

G. Clean case and glass using manufacturers recommended procedures.

H. Provide mitered and wrapped hairline joints for all trims.

3.3 ADJUSTING AND CLEANING

A. Verify that all accessories are installed as detailed for each unit.

B. At completion of work, clean glass surfaces, back panels and trim in accordance with manufacturer's recommendations leaving units ready for use.

3.4 CLOSEOUT ACTIVITIES

A. Refer to Section 01 77 00 - Closeout Procedures, for closeout submittals.

END OF SECTION 10 12 00

SECTION 10 26 00 - WALL AND DOOR PROTECTION

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Corner guards.
   2. Protective wall covering.

B. Related Requirements:
   1. Section 05 50 00 - Metal Fabrications: Anchors for attachment of work of this section, concealed in wall.
   2. Section 06 10 00 - Rough Carpentry: Blocking for wall and corner guard anchors.
   3. Section 08 71 00 - Door Hardware: Standard protection plates and trim.
   4. Section 09 21 16 - Gypsum Board Assemblies: Placement of supports in stud wall construction.

1.3 REFERENCE STANDARDS

A. ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics; 2010 (Reapproved 2018).

B. ASTM D543 - Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents; 2021.

C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2022.

D. ASTM F476 - Standard Test Methods for Security of Swinging Door Assemblies; 2014.

E. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi; 2015 (Reapproved 2021)e1.

1.4 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures for submittal procedures.

B. Product Data: Indicate physical dimensions, features, wall mounting brackets with mounted measurements, anchorage details, and rough-in measurements.

C. Shop Drawings: Include plans, elevation, sections, and attachment details. Show design and spacing of supports for protective corridor handrails, required to withstand structural loads.

D. Samples: Submit samples illustrating component design, configurations, joinery, color and finish.
   1. Submit two samples of protective wall covering and door surface protection, 6 by 6 inches (152 by 152 mm) square.

E. Manufacturer's Instructions: Indicate special procedures, perimeter conditions requiring special attentio

F. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project:
   1. Refer to Section 01 60 00 - Product Requirements for additional provisions.
   2. Extra Stock Materials: One package(s) of minimum 96 inches (2438 mm) long unit of each kind of covers for corner guards.

H. Maintenance Data: Manufacturer's instructions for care and cleaning of each type of product. Include information about both recommended and potentially detrimental cleaning materials and methods.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver wall and door protection items in original, undamaged protective packaging. Label items to designate installation locations.

B. Protect work from moisture damage.

C. Protect work from UV light damage.

D. Do not deliver products to project site until areas for storage and installation are fully enclosed, and interior temperature and humidity are in compliance with manufacturer's recommendations for each type of item.

E. Store products in either horizontal or vertical position, in compliance with manufacturer's instructions.

1.6 WARRANTY

A. Refer to Section 01 77 00 - Closeout Procedures for additional warranty requirements.

B. Manufacturer Warranty: Provide 5-year manufacturer warranty for metal crash rails. Complete forms in Owner's name and register with manufacturer.
   1. Failures include, but are not limited to, the following:
      a. Structural failures or internal connection failures.
      b. Deterioration of materials beyond that expected of normal use, as intended by manufacturer.

C. Installer Warranty: Provide 5-year warranty for metal crash rails commencing on Date of Substantial Completion. Complete forms in Owner's name and register with installer.
   1. Failures include, but are not limited to, the following:
      a. Detachment of rail system from substrate.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
   1. Corner Guards:
      a. Babcock-Davis: www.babcockdavis.com/#sle.
      b. Construction Specialties, Inc: www.c-sgroup.com/#sle.
      c. Inpro: www.inprocorp.com/#sle.
      d. Koroseal Interior Products: www.koroseal.com/#sle.
   2. Protective Wall Covering:
      a. Construction Specialties, Inc: www.c-sgroup.com/#sle.
      b. Inpro: www.inprocorp.com/#sle.
      c. MDC Interior Solutions: www.mdcwall.com/#sle.
      d. Pawling Corp: www.pawling.com/#sle.
      e. Momentum Textiles and Wallcoverings: www.momentumtextilesandwalls.com/#sle.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

2.2 PERFORMANCE CRITERIA

A. Impact Strength: Unless otherwise noted, provide protection products and assemblies that have been successfully tested for compliance with applicable provisions of ASTM D256 and/or ASTM F476.

B. Chemical and Stain Resistance: Unless otherwise noted, provide protection products and assemblies with chemical and stain resistance complying with applicable provisions of ASTM D543.

C. Fungal Resistance: Unless otherwise noted, provide protection products and assemblies which pass ASTM G21 testing.

2.3 PRODUCT TYPES

A. Corner Guards - Surface Mounted, PETG:
1. Basis of Design: Acrovyn SSM-20AN manufactured by Construction Specialties, Inc.
2. Material: Polyethylene terephthalate (PET or PETG); PVC-free with full height extruded aluminum retainer.
3. Performance: Resist lateral impact force of 100 lbs (445 N) at any point without damage or permanent set.
4. Surface Burning Characteristics: Provide assemblies with flame spread index of 25 or less and smoke developed index of 450 or less, when tested in accordance with ASTM E84.
5. Width of Wings: 2 inches.
6. Corner: 1/4 inch radius.
7. Color: As selected by Architect from manufacturer's standard finishes.
8. Projection From Wall to Outside of Guard: 3/8 inch (3/8 inch (9.5 mm).
9. Length: One piece,~~.~~80 inches (2032 mm)
10. Preformed end caps.

B. Plastic Sheet Wall Covering:
1. Basis of Design: Acrovyn manufactured by Construction Specialties.
2. Material: High-impact acrylic-modified vinyl.
3. Thickness: 0.040 inch (1.02 mm).
4. Surface Burning Characteristics: Provide assemblies with flame spread index of 25 or less and smoke developed index of 450 or less, when tested in accordance with ASTM E84.
5. Color: As selected by Architect from manufacturer's standard finishes.
6. Texture: Suede.
   a. Texture Direction: As determined by Architect..
7. Accessories: Provide manufacturer's standard color-matched trim and moldings.
8. Mounting: Adhesive.

2.4 FABRICATION

A. Fabricate components with tight joints, corners and seams.

B. Pre-drill holes for attachment.

C. Form end trim closure by capping and finishing smooth.

2.5 SOURCE QUALITY CONTROL

A. Refer to Section 01 40 00 - Quality Requirements, for additional requirements.

B. Provide wall and door protection systems of each type from a single source and manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that rough openings, concealed blocking, and anchors are correctly sized and located.

B. Verify that field measurements are as indicated on drawings.

C. Verify that substrate surfaces for adhered items are clean and smooth.
1. Test painted or wall covering surfaces for adhesion in inconspicuous area, as recommended by manufacturer. Follow adhesive manufacturer's recommendations for remedial measures at locations and/or application conditions where adhesion test's results are unsatisfactory.

D. Start of installation constitutes acceptance of project conditions.

3.2 INSTALLATION

A. Install components in accordance with manufacturer's instructions, level and plumb, secured rigidly in position to supporting construction.

B. Position protective wall covering no less than 1 inch (25.4 mm) above finished floor to allow for floor level variation.
   1. Full-Height Installation: Establish a plumb line located at edge of starting point of first sheet to ensure following sheets will be installed plumb.
   2. Wainscot Installation: Establish a level line at the specified height for entire length of run. Install by aligning top of edge of covering with this line.
   3. Apply adhesive with 1/8 inch (3.2 mm) V-notch trowel to an area of wall surface that can be completed within cure time of the adhesive.
   4. Install trim pieces as required for a complete installation. Allow tolerance for thermal movement.
   5. At inside and outside corners cut covering sheets to facilitate installation of trim pieces or corner guards.

3.3 TOLERANCES

A. Maximum Variation From Required Height: 1/4 inch (6 mm).

B. Maximum Variation From Level or Plane For Visible Length: 1/4 inch (6 mm).

3.4 CLEANING

A. Clean wall and door protection items of excess adhesive, dust, dirt, and other contaminants.

END OF SECTION 10 26 00

SECTION 10 51 13 - METAL LOCKERS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Metal lockers.

B. Firearm and Armory Rack.

C. Locker benches.

1.2 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Concrete base construction.

B. Section 06 10 00 - Rough Carpentry: Wood base construction.

C. Section 06 10 00 - Rough Carpentry: Wood blocking and nailers.

D. Section 06 20 00 - Finish Carpentry: Bench tops for locker bench support brackets.

1.3 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

B. ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2020a.

C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.

D. ASTM A879/A879M - Standard Specification for Steel Sheet, Zinc Coated by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface; 2012 (Reapproved 2017).

E. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable; 2021a.

F. ASTM F1267 - Standard Specification for Metal, Expanded, Steel; 2018.

G. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.4 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures for submittal procedures.

B. Product Data: Manufacturer's published data on locker construction, sizes, and accessories.
   1. Wired Access Control: Include power requirements and standard wiring diagrams for specified products.

C. Shop Drawings: Indicate locker plan layout, numbering plan and combination lock code.
   1. Wired Access Control: Provide schematic system riser diagram indicating component interconnections. Include requirements for interface with other systems.

D. Full Size Sample: One full-size locker of each construction specified for evaluation of construction.

E. Samples: Submit two samples 3 by 6 inches (75 by 150 mm) in size showing color and finish of metal locker material.

F. Manufacturer's Installation Instructions: Indicate component installation assembly.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect locker finish and adjacent surfaces from damage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience

manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.

1. Art Metal Products: www.artmetalproducts.com/#sle.
2. ASI Storage Solutions: www.asi-storage.com/#sle.
3. DeBourgh Manufacturing Co: www.debourgh.com/#sle.
4. List Industries, Inc: www.listindustries.com/#sle.
5. Lockers MFG: www.lockersmfg.com/#sle.
6. Republic Storage Systems Co: www.republicstorage.com/#sle.
7. Tennsco Storage: www.tennsco.com/#sle.
8. WEC Manufacturing: www.itswec.com/#sle.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

2.2 LOCKER APPLICATIONS

A. Basis of Design: List Industries.
1. Type A: 12 inches W by 12 inches D by 72 inches H, 2 tier.
2. ~~Type D: 15 inches W bys 15 inches D by 72 inches H, 2 tier.~~
3. Type F: 12 inches W by 15 inches D by 72 inches H, 6 tier.
4. ~~Type G:18 inches W by 21 inches D by 72 inches H, 2 tier.~~
5. ~~Type H: 15 inches W by 15 inches D by 72 inches H, 2 tier.~~

2.3 METAL LOCKERS

A. Accessibility: Design units indicated on drawings as 'accessible' to comply with ICC A117.1 and ADA Standards.

B. Locker Case Construction:
1. Heavy-Duty, Welded Construction: Made of formed and welded together sheet steel; metal edges finished smooth without burrs; baked enamel or powder coat finished inside and out.
   a. Assembly: Do not use bolts, screws, or rivets to assemble locker bodies.
   b. Locker Body Components: Formed and flanged from steel sheet of the following type and minimum thicknesses:
      1) Unperforated Steel Sheet: Commercial Steel (CS), Type B, supplied for exposed applications and complying with ASTM A1008/A1008M and the following:
         (a) Uncoated.
         (b) Zinc-Coated by the Hot-Dip Process: Comply with ASTM A653/A653M, coating designation G60/Z180.
         (c) Zinc-Iron-Alloy-Coated by the Hot-Dip Process: Comply with ASTM A653/A653M, coating designation A40/ZF120.
         (d) Zinc-Coated by the Electrolytic Process: Comply with ASTM A879/A879M, coating designation 30Z.
         (e) Perforations: Manufacturer's standard pattern of square holes.
      2) Expanded Steel Sheet: Made from ASTM A1008/A1008M carbon steel sheet and complying with ASTM F1267, Type II, expanded and flattened, style 3/4 - 16, with a minimum 70 percent open area.
         (a) Class 1, uncoated.
         (b) Class 2, hot-dip zinc-coated, galvanized or galvannealed.
      3) Body and Shelves: 16 gauge, 0.0598 inch (1.52 mm).
      4) Backs: 18 gauge, 0.0478 inch (1.21 mm).
      5) Base: 18 gauge, 0.0478 inch (1.21 mm).
         (a) Height: 4 inches (100 mm).
      6) Legs: Manufacturer's standard
         (a) Form by extending frame members.

(b) Fabricate from 14 gauge, 0.0747 inch (1.90 mm) nominal thickness steel sheet specified above, welded to bottom of locker.
(c) Height: 6 inches (152 mm).

c. Frames: Formed channel shape, welded and ground flush, welded to body, resilient gaskets and latching for quiet operation.
1) Door Frame: 16 gauge, 0.0598 inch (1.52 mm), minimum.

d. Where ends or sides are exposed, provide flush panel closures.

e. Provide filler strips where indicated or required, securely attached to lockers.

2. Standard-Duty, Knocked Down Construction: Made of formed sheet steel; metal edges finished smooth without burrs; baked enamel or powder coat finished inside and out.

a. Locker Body Components: Formed and flanged from steel sheet of the following type and minimum thicknesses:
1) Unperforated Steel Sheet: Commercial Steel (CS), Type B, supplied for exposed applications and complying with ASTM A1008/A1008M and the following:
(a) Uncoated.
(b) Zinc-Coated by the Hot-Dip Process: Comply with ASTM A653/A653M, coating designation G60/Z180.
(c) Zinc-Iron-Alloy-Coated by the Hot-Dip Process: Comply with ASTM A653/A653M, coating designation A40/ZF120.
(d) Zinc-Coated by the Electrolytic Process: Comply with ASTM A879/A879M, coating designation 30Z.
(e) Perforations: Manufacturer's standard pattern of square holes.
2) Expanded Steel Sheet: Made from ASTM A1008/A1008M carbon steel sheet and complying with ASTM F1267, Type II, expanded and flattened, style 3/4 - 16, with a minimum 70 percent open area.
(a) Class 1, uncoated.
(b) Class 2, hot-dip zinc-coated, galvanized or galvannealed.
3) Body and Shelves: 24 gauge, 0.0239 inch (0.61 mm).
4) Backs: 24 gauge, 0.0239 inch (0.61 mm).
5) Base: 18 gauge, 0.0478 inch (1.21 mm).
(a) Height: 4 inch (100 mm).
6) Legs: Manufacturer's standard.
(a) Form by extending frame members.
(b) Fabricate from 14 gauge, 0.0747 inch (1.90 mm) nominal thickness steel sheet specified above, welded to bottom of locker.
(c) Height: 6 inches (152 mm).

b. Frames: Formed channel shape, welded and ground flush, welded to body, resilient gaskets and latching for quiet operation.
1) Door Frame: 16 gauge, 0.0598 inch (1.52 mm), minimum.

c. Where ends or sides are exposed, provide flush panel closures.

d. Provide filler strips where indicated, securely attached to lockers.

C. Drawer Base with Bench:
1. Top, Bottom, Sides, Back, and Drawer: 16 gauge, 0.0598 inch (1.52 mm) sheet steel.
2. Slides: Steel, full extension arms, ball bearings; self-closing; capacity as recommended by manufacturer for drawer height and width.
3. Integral self latching mechanism triggered by operation of wardrobe door.
4. Bench: Mixed hardwood.

D. Doors: Channel edge; welded construction, manufacturer's standard stiffeners, grind and finish edges smooth.
1. Door Thickness: 16 gauge, 0.0598 inch (1.52 mm), minimum.
2. Form recess for operating handle and locking device.

E. Latches and Door Handles: Manufacturer's standard.
   1. Latching Components: 300 Series Stainless Steel (ASTM A240/A240M).
   2. Latching: Manufacturer's standard for locking arrangement selected.
      a. Three-Point Lift Handle Gravity Latch: Pocket-mounted, provide for doors 18 inches (457 mm) or taller.
         1) Handle Pocket, Recess: Stainless steel flush-mounted cup recessed into face of door.
         2) Handle: Steel finger lift mechanism with exposed portion encased in molded plastic trigger.
            (a) Padlock Eye: Integral with lift trigger, sized for use with 9/32 inch (7.1 mm) diameter padlock shackles.
         3) Latching Mechanism: Spring activated nylon slide latch enclosed in steel latch channel allows closing of door while padlock or built-in lock is in position.
         4) Lock Hole Filler Plate: Manufacturer's standard. Provide for lockers intended to be unsecured or secured with padlocks.
         5) Rubber bumpers riveted to door stops for silent operation.
      b. Three-Point Pull Handle Gravity Latch: Surface-mounted, provide for doors 18 inches (457 mm) or taller.
         1) Handle: Steel finger lift mechanism.
         2) Latching Mechanism: Spring activated nylon slide latch enclosed in steel latch channel allows closing of door while padlock or built-in lock is in position.
         3) Padlock Eye: Integral with lift handle, sized for use with 9/32 inch (7.1 mm) diameter padlock shackles.
         4) Lock Hole Filler Plate: Manufacturer's standard. Provide for lockers intended to be unsecured or secured with padlocks.
         5) Rubber bumpers riveted to door stops for silent operation.
      c. Three-Point/Three-Sided Cremone Latch.
         1) Latching mechanism operated by a steel handle welded to a three-point Cremone-type assembly.
         2) Latching rods, 3/8 inch (9.5 mm) diameter, engage top and bottom edge of locker frame. 3/16 inch (4.8 mm) thick center latch engages door jamb.
      d. Single-Point Latch: Provide for doors indicated.
         1) Stationary latch welded securely to locker frame.
         2) Latch extends no more than 1-1/4 inch (31.8 mm) into locker opening, penetrating through cup.
         3) Flush-mounted, recessed stainless steel cup in a formed door with 18 gauge, 0.0478 inch (1.21 mm) vertical back panel stiffener.
      e. Spring Latch: Provide for box-size lockers and where indicated.
         1) 16 gauge, 0.0598 inch (1.52 mm) cold rolled steel, zinc plated with a 10 gauge, 0.1345 inch (3.42 mm) latch and 16 gauge, 0.0598 inch (1.52 mm) stainless steel lock hasp and completely enclosed stainless steel spring.
         2) Assembled using six nickel-plated rivets.
         3) Equip box locker doors with a padlock hasp and a stainless steel strike plate with an integral handle pull. Box locker doors may also be equipped with built-in locks.
      f. Access Control Single-Point Latch: Provide for doors indicated.
         1) Wireless integrated access control locking devices.
         2) Stationary latch welded securely to locker frame.
         3) Rubber bumpers riveted to door stops for silent operation.

F. Cup, Pocket: Manufacturer's standard, with integral pull, and recessed surface punched for installation of lock, latch lift mechanism, and number plate.

G. Hinges: Continuous piano hinge with powder coat finish to match locker color.

H. Hinges: Heavy-duty, 7-knuckle type; two for doors under 42 inches (1050 mm) high; three for doors over 42 inches (1 050 mm) high.

I. Trim: 20 gauge, 0.0359 inch (0.91 mm).

J. Number Plates: Provide oval shaped aluminum plates. Form numbers ____ inch (____ mm) high of block font style with ADA designation, in contrasting color.

K. Locks: Contractor shall include combination padlocks with alternative key unlocking mechanisms for all lockers included in the construction documents. One combination padlock per locker space.

2.4 FIREARM AND ARMORY RACL

A. Metal Weapons Rack:
1. Basis of Design: Firearm and Armory Rack as manufactured by Tiffin Metal Products.
2. Size: 42 inches W by 26 inches D by 45 inches H.
3. Color: Black.
4. Doors: Diamond Perforated, retractable bi-fold door with locking mechanism.
5. Capacity: Holding and Securing 10 long rifles and 10 pistols.

2.5 LOCKER BENCHES

A. Basis of Design:
1. Model No. 942SM-V6 as manufactured by Belson.
2. Type: Backless Thermoplastic coated metal bench.

B. Locker Benches: Stationary type; bench top of 1-1/4" Maple with 2 coats of clear lacquer coating All corners shall be rounded and sanded; Powder-coated steel tubing with a 10 gauge steel flange. pedestals. Pedesal to be fastened to the floor with 3 lag screws per pedestal.
1. Accessibility: Comply with ICC A117.1 and ADA Standards.
2. Height: 18" inch (_____ mm).
3. Length: 42" inch (_____ mm).
4. Depth: 22" inch (_____ mm).
5. Powder-Coating Color: Selected by Architect from Manufacturer's full rage of colors.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that prepared bases are in correct position and configuration.

B. Verify bases and embedded anchors are properly sized.

C. Verify that power and ethernet are installed and enabled. See manufacturer drawings for recommended outlet or junction box placement.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Place and secure on prepared 4" fully grouted CMU base concealed with rolled rubber base.

C. Install lockers plumb and square.

D. Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 100 pounds (445 N).

E. Bolt adjoining locker units together to provide rigid installation.

F. Install end panels, filler panels, and sloped tops.

G. Install fittings if not factory installed.

H. Replace components that do not operate smoothly.

3.3 CLEANING

A. Clean locker interiors and exterior surfaces.

END OF SECTION 10 51 13

SECTION 10 75 16 - FLAGPOLES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes: Requirements including but not limited to:
   1. Ground set flagpoles made from aluminum.
   2. Fittings, base, anchorage.
   3. Flags.
   4. Accessories necessary for a complete installation,

1.3 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, currently licensed to practice within jurisdiction of the project location, with experience in the design of curtainwalls and aluminum storefronts to design ground set flagpoles using performance requirements and design criteria indicated.

B. Seismic Performance: Flagpole assemblies shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.

C. Structural Performance: Flagpole assemblies, including anchorages and supports, shall withstand design loads indicated within limits and under conditions indicated.
   1. Wind Loads: Refer to the Structural Engineer's drawings.
   2. Base flagpole design on polyester, nylon or cotton flags of maximum standard size suitable for use with flagpole or flag size indicated, whichever is more stringent.

1.4 SUBMITTALS

A. Product Data: Technical data for flagpoles including construction details, material descriptions, dimensions of individual components and profiles, operating characteristics, fittings, accessories, and finishes for flagpoles.

B. Shop Drawings: Submit plans, elevations, and attachment details. Show general arrangement, jointing, fittings, accessories, grounding, anchoring, and support, including section, and details of foundation system.

C. Delegated Design Submittal.

D. Operation and Maintenance Data: Submit data to include in operation and maintenance manuals.

1.5 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Accessibility Requirements: Comply with applicable requirements.
      a. United States Access Board Americans with Disabilities Act Accessibility Guidelines (ADAAG) (2010 ADA Standards for Accessible Design).
      b. ICC A117.1 Accessible and Useable Building and Facilities.
      c. Texas Accessibility Standards (TAS) 2012 or United States Access Board Americans with Disabilities Act Accessibility Guidelines (ADAAG) (2010 ADA Standards for Accessible Design).

B. Source Limitations: Obtain flagpoles as complete units, including fittings, accessories, bases, and anchorage devices, from single source from single manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Spiral wrap flagpoles with heavy paper and enclose in a hard fiber tube or other protective container.

PART 2 PRODUCTS

2.1 MATERIALS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Acme/Lingo Flagpoles, LLC.
   2. American Flagpole.
   3. Baartol Company.
   4. Carrot-Top Industries, Inc.
   5. Concord American Flagpole.
   6. Eder Flag Manufacturing Company, Inc.
   7. Ewing Flagpoles.
   8. Morgan-Francis Flagpoles and Accessories.
   9. Pole-Tech Company Inc.
   10. U.S. Flag & Flagpole Supply, LP.

2.2 ALUMINUM FLAGPOLES

A. Basis of Design: Concord American Flagpole.

B. Aluminum Flagpoles: Cone tapered flagpoles fabricated from seamless extruded tubing complying with ASTM B 241/B 241M, Alloy 6063, with a minimum wall thickness of 3/16 inch (4.8 mm).

C. Exposed Height: 35 feet (11 m).

D. Construct flagpoles in one piece if possible. If more than one piece is necessary, comply with the following:
   1. Fabricate shop and field joints without using fasteners, screw collars, or lead calking.
   2. Provide flush hairline joints using self aligning, snug fitting, internal sleeves.

E. Metal Foundation Tube: Corrugated steel foundation tube, 0.060 inch (1.52 mm) wall thickness with 3/16 inch (4.8 mm) steel bottom plate and support plate; 3/4 inch (19 mm) diameter, steel ground spike; and steel centering wedges welded together. Galvanize foundation tube after assembly. Furnish loose hardwood wedges at top of foundation tube for plumbing pole.
   1. Flashing Collar: Same material and finish as flagpole.

F. Sleeve for Aluminum Flagpole: Fiberglass or PVC pipe foundation sleeve, made to fit flagpole, for casting into concrete foundation.
   1. Flashing Collar: Same material and finish as flagpole.

G. Cast Metal Shoe Base: Made from aluminum with same finish and color as flagpoles for anchor bolt mounting; furnish with anchor bolts.
   1. Furnish ground spike.

H. Hinged Baseplate: Cast metal tilting hinged base and anchor plate joined by permanently secured pivot rod. Furnish with stainless steel screws for securing tilting base to anchor plate when not tilted; furnish with anchor bolts.
   1. Finish: Same as flagpole.
   2. Furnish aluminum base or aluminum flashing collar finished to match flagpole.
   3. Furnish ground spike.

I. ~~Pivoting Tilt Base: Steel baseplate with channel or rectangular tube uprights, pivot bolt, and locking device for tilting flagpole. Furnish tilting flagpole with steel counterweight box and weights, or furnish with internal counterweight. Furnish base with anchor bolts.~~
   1. ~~Finish: Same as flagpole.~~
   2. ~~Furnish ground spike.~~

2.3 FITTINGS

A. Finial Ball: Flush seam ball, sized to match flagpole butt diameter.
   1. 3 inch (1.6 mm) spun aluminum, finished to match flagpole.

B. Internal Halyard, Cam Cleat System: 5/16 inch (8 mm) diameter, braided polypropylene halyard; cam cleat; and concealed revolving truck assembly with plastic coated counterweight and sling. Furnish flush access door secured with cylinder lock. Finish truck assembly to match flagpole.
   1. Halyard Flag Snaps: Chromium plated bronze or stainless steel or bronze or nylon swivel snap hooks with neoprene or vinyl covers. Furnish two per halyard.

2.4 MISCELLANEOUS MATERIALS

A. Flag: One 6’0” x 10’0” US flag and one 6’0” x 10’0” Texas or United States of America flag each to be made of polyester fabric with brass grommets.

B. Concrete: Quick set concrete composed of not less than five (5) sacks of Portland cement conforming to ASTM C150, per cubic yard of wet concrete combined with fine aggregate, clean water, and mixed in proportions to attain minimum 28 day compressive strength of not less than 3,000 psi.

C. Nonshrink, Nonmetallic Grout: Factory packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M.

D. Drainage Material: Crushed stone, or crushed or uncrushed gravel; coarse aggregate.

E. Sand: ASTM C 33/C 33M, fine aggregate.

F. Elastomeric Joint Sealant: Single component nonsag urethane joint sealant complying with requirements in Section 079200.

G. Bituminous Paint: Cold applied asphalt emulsion complying with ASTM D 1187/D 1187M.

2.5 FINISH

A. Dark Bronze Anodized Finish: Remove mill scale and rust, if present, from uncoated steel, complying with SSPC-SP 5/NACE No. 1 White Metal Blast Cleaning or SSPC-SP 8, Pickling. After cleaning, apply a conversion coating suited to the organic coating to be applied over it. After cleaning and pretreating, apply two coat, baked on finish consisting of prime coat and thermosetting topcoat to a minimum dry film thickness of 2 mils (0.05 mm).

PART 3 EXECUTION

3.1 PREPARATION

A. Prepare uncoated metal flagpoles that are set in foundation tubes by painting below-grade portions with a heavy coat of bituminous paint.

B. Foundation Excavation: Excavate to neat clean lines in undisturbed soil. Remove loose soil and foreign matter from excavation and moisten earth before placing concrete. Place and compact drainage material at excavation bottom.

C. Provide forms where required due to unstable soil conditions and for perimeter of flagpole base at grade. Secure and brace forms to prevent displacement during concreting.

D. Foundation Tube: Place foundation tube, center, and brace to prevent displacement during concreting. Place concrete. Plumb and level foundation tube and allow concrete to cure.

E. Sleeves: Locate and secure sleeves in forms by bracing to reinforcement and forms.

F. Anchor Bolts: Locate and secure anchor bolts in forms with templates and by tying to reinforcement.

G. Concrete: Place concrete as specified in Section 03 30 00. Compact concrete in place by using vibrators. Moist cure exposed concrete for no fewer than seven days or use nonstaining curing compound.

H. Trowel exposed concrete surfaces to a smooth, dense finish, free of trowel marks, and uniform in texture and appearance. Provide positive slope for water runoff to perimeter of concrete base.

3.2 FLAGPOLE INSTALLATION

A. Install flagpoles where indicated and according to Shop Drawings and manufacturer's written instructions.

B. Foundation Tube: Place flagpole in tube, seated on bottom plate between steel centering wedges, and install hardwood wedges to secure flagpole in place. Place and compact sand in foundation tube and remove hardwood wedges. Seal top of foundation tube with a 2-inch (50-mm) layer of elastomeric joint sealant and cover with flashing collar.

C. Baseplate: Cast anchor bolts in concrete foundation. Install baseplate on washers placed over leveling nuts on anchor bolts and adjust until flagpole is plumb. After flagpole is plumb, tighten retaining nuts and fill space under baseplate solidly with nonshrink, nonmetallic grout. Finish exposed grout surfaces smooth and slope 45 degrees away from edges of baseplate.

D. Provide positive lightning ground.

3.3 CLEANING AND ADJUSTING

A. Clean area of debris and place excavated soil where directed or remove from site as directed. Clean flagpole of dirt and foreign matter which will affect appearance.

B. Touch up damage to finished surfaces with manufacturer’s matching paint.

C. Adjust fittings for smooth operation.

END OF SECTION 10 75 16

SECTION 11 30 13 - RESIDENTIAL APPLIANCES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Kitchen appliances.

B. Laundry appliances.

1.2 RELATED REQUIREMENTS

A. Section 22 10 05 - Plumbing Piping: Plumbing connections for appliances.

B. Section 26 05 83 - Wiring Connections: Electrical connections for appliances.

1.3 REFERENCE STANDARDS

A. UL (DIR) - Online Certifications Directory; Current Edition.

1.4 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's data indicating dimensions, capacity, and operating features of each piece of residential equipment specified.

C. Copies of Warranties: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

B. Electric Appliances: Listed and labeled by UL (DIR) and complying with NEMA Standards (National Electrical Manufacturers Association).

C. Gas Appliances: Bearing design certification seal of American Gas Association (AGA).

1.6 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

B. Provide five (5) year manufacturer warranty on refrigeration system of refrigerators.

C. Provide ten (10) year manufacturer warranty on magnetron tube of microwave ovens.

D. Provide ten (10) year manufacturer warranty on tub and door liner of dishwashers.

PART 2 PRODUCTS

2.1 KITCHEN APPLIANCES

A. Provide Equipment Eligible for Energy Star Rating: Energy Star Rated.

B. Refrigerator: Free-standing,.
   1. Basis of Design: GIE21GSHSS as manufactured by GE.
   2. Capacity: Total minimum storage of 21.0 Cuy. Ft.; minimum 15 percent freezer capacity.
   3. Energy Usage: Minimum 20 percent more energy efficient than energy efficiency standards set by U.S. Department of Energy (DOE).
   4. Features: Include glass shelves and light in freezer compartment.
   5. Exterior Finish: Stainless steel, color as indicated.
   6. Manufacturers:
      a. Frigidaire Home Products: www.frigidaire.com/#sle.
      b. GE Appliances: www.geappliances.com/#sle.
      c. Whirlpool Corp: www.whirlpool.com/#sle.
      d. Substitutions: See Section 01 60 00 - Product Requirements.

C. ~~Commercial Refrigerator:~~
   1. ~~Basis of Design: TS-49-HC as manufactured by True Food Service.~~

2. ~~Finish: Stainless Steel.~~
3. ~~Doors: Two (2).~~
4. ~~Electrical: 115V/60Hz/1-ph.~~
5. ~~Temperature Range: 33-38 degress.~~
6. ~~LED Interior LIghts.~~
7. ~~Amperage: 5.4.~~
8. ~~Size (inches): 54.13 Width by 29.5 Depth by 78.38 Height.~~

D. ~~Range: Electric, free-standing, with glass-ceramic cooktop.~~
1. ~~Basis of Design: Model JB750DJSS as manufactured by GE Appliances.~~
2. ~~Size: 30 inches (762 mm) wide.~~
3. ~~Oven: Self-cleaning with electronic ignition.~~
4. ~~Elements: Four (4).~~
5. ~~Controls: Solid state electronic.~~
6. ~~Features: Include oven door window, oven light, and delay bake option..~~
7. ~~Exterior Finish: Stainless steel, color white.~~
8. ~~Manufacturers:~~
   a. ~~Frigidaire Home Products: www.frigidaire.com/#sle.~~
   b. ~~GE Appliances: www.geappliances.com/#sle.~~
   c. ~~Whirlpool Corp: www.whirlpool.com/#sle.~~
   d. ~~Substitutions: See Section 01 60 00 - Product Requirements.~~

E. ~~Cooking Exhaust, Under Cabinet: Range hood.~~
1. ~~Basis of Design: Model JV5300SJSS as manufactured by GE.~~
2. ~~Size: 30 inches (762 mm) wide.~~
3. ~~Fan: Two-speed, 500 cfm (236 L/s)~~
4. ~~Exhaust: Rectangular.~~
5. ~~Features: Include cooktop light and Remote Control.~~
6. ~~Exterior Finish: Stainless steel, color white.~~
7. ~~Manufacturers:~~
   a. ~~Broan-NuTone, LLC: www.broan-nutone.com/#sle.~~
   b. ~~Frigidaire Home Products: www.frigidaire.com/#sle.~~
   c. ~~GE Appliances: www.geappliances.com/#sle.~~
   d. ~~Whirlpool Corp: www.whirlpool.com/#sle.~~
   e. ~~Substitutions: See Section 01 60 00 - Product Requirements.~~

F. Microwave: Countertop.
1. Basis of Design: Model PES7227SLSS as manufactured by GE.
2. Capacity: 2.2 cu.ft..
3. Power: 1100 watts.
4. Features: Include Clock saver, Timer On/Off, Cook Time, Start/Pause, Sound, Turntable
5. Exterior Finish: Stainless Steel.
6. Manufacturers:
   a. Frigidaire Home Products: www.frigidaire.com/#sle.
   b. GE Appliances: www.geappliances.com/#sle.
   c. Whirlpool Corp: www.whirlpool.com/#sle.
   d. Substitutions: See Section 01 60 00 - Product Requirements.

G. Dishwasher: Undercounter.
1. Basis of Design: Model SGE53C55UC as manufactured by Bosch.
2. Controls: Solid state electronic.
3. Wash Levels: Five.
4. Cycles: Four (4), including normal and rinse and hold.
5. Features: Include Water softener, childlock, 24h delay start timer and Leak protection system..

6. Finish: Stainless Steel.
7. Manufacturers:
   a. Frigidaire Home Products: www.frigidaire.com/#sle.
   b. GE Appliances: www.geappliances.com/#sle.
   c. Whirlpool Corp: www.whirlpool.com/#sle.
   d. Bosch: www.bosch-home.com/#sle.
   e. Substitutions: See Section 01 60 00 - Product Requirements.

H. ~~Commerical Freezer:~~
1. ~~Basis of Design: Model TRLCLM-49F-FS-LR as manufactured by Traulsen.~~
2. ~~Type: Double Door, Reach-In.~~
3. ~~Dimensions: 78 inches H by 33 inches W by 55.75 inches D.~~
4. ~~Hertz: 60 Hz.~~
5. ~~Phase: 1.~~
6. ~~Voltage: 115 V.~~
7. ~~Location and Qunatity: Refer to Drawings.~~

2.2 LAUNDRY APPLIANCES

A. Provide Equipment Eligible for Energy Star Rating: Energy Star Rated.

B. Clothes Washer: Front-loading.
1. Basis of Design: Model GFW480SPKDG as manufactured by GE.
2. Size: Full-size.
3. Controls: Rotary.
4. Cycles: Include normal, delicate, and Quick Wash, Tub Clean, Sanitize and Allergen..
5. Motor Speed: Single-speed.
6. Features: Include optional second rinse, bleach dispenser, fabric softener dispenser, and end of cycle signal.
7. Finish: Painted steel , color as scheduled.
8. Manufacturers:
   a. Frigidaire Home Products: www.frigidaire.com/#sle.
   b. GE Appliances; : www.geappliances.com/#sle.
   c. Whirlpool Corp: www.whirlpool.com/#sle.
   d. Substitutions: See Section 01 60 00 - Product Requirements.

C. Clothes Dryer: Electric, stationary.
1. Basis of Design: GFD48ESPKDG as manufactured by GE.
2. Size: Full-size.
3. Controls: Rotary, with timer dry control.
4. Temperature Selections: One.
5. Cycles: Include normal, knit/delicate, and air only.
6. Features: Include end of cycle signal and Control Lock..
7. Finish: Painted steel , color as scheduled.
8. Manufacturers:
   a. Frigidaire Home Products: www.frigidaire.com/#sle.
   b. GE Appliances: www.geappliances.com/#sle.
   c. Whirlpool Corp: www.whirlpool.com/#sle.
   d. Substitutions: See Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify utility rough-ins are provided and correctly located.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Anchor built-in equipment in place.

3.3 ADJUSTING

A. Adjust equipment to provide efficient operation.

3.4 CLEANING

A. Remove packing materials from equipment and properly discard.

B. Wash and clean equipment.

END OF SECTION 11 30 13

SECTION 11 46 83 - ICE MACHINES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes: Requirements including but not limited to:
   1. Commercial ice machines
   2. Appliance coordination including service connections, supply lines, and power
   3. Accessories necessary for a complete installation

B. Related Sections:
   1. Division 22: Domestic water supply.
   2. Division 26: Electrical connection.

1.3 SUBMITTALS

A. Product Data: Technical data including product specifications, installation, and maintenance instructions.

B. Product Certificates: Submit certificate from product manufacturer stating compliance with requirements and intended use of product.

C. Operation and Maintenance Data: Submit for each residential appliance to include in operation and maintenance manuals.

1.4 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. NFPA: Provide electrical appliances listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
   2. UL and NEMA: Provide electrical components required as part of residential appliances that are listed and labeled by UL and that comply with applicable NEMA standards.
   3. Energy Ratings: Provide energy efficient appliances that carry labels indicating energy cost analysis (estimated annual operating costs) and efficiency information.
   4. Accessibility Requirements: Comply with applicable requirements.
      a. United States Access Board Americans with Disabilities Act Accessibility Guidelines (ADAAG) (2010 ADA Standards for Accessible Design).
      b. ICC A117.1 Accessible and Useable Building and Facilities.

B. Product Options: Information on Drawings and in Specifications establishes requirements for product's aesthetic effects and performance characteristics. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction. Performance characteristics are indicated by criteria subject to verification by one or more methods including preconstruction testing, field testing, and in-service performance.

C. Source Limitations: Obtain light commercial appliances from single source and each type of light commercial appliance from single manufacturer.

D. Preinstallation Conference: Conduct conference at site.

1.5 WARRANTY

A. Warranties: Written warranty signed by manufacturer in which manufacturer of the specific appliance specified agrees to repair or replace appliances or components that fail in materials or workmanship within specified warranty period.

1. Provide appliance and equipment rated for light commercial grade or higher. Residential appliances are not acceptable unless manufacturer warrants residential units in a commercial application and only with Architect's approval.

B. Icemaker, Sealed System: Full warranty, including parts and labor, for onsite service on the product.
   1. Warranty Period for Sealed Refrigeration System: Five years from date of Substantial Completion.
   2. Warranty Period for Other Components: Two years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Manufactuer's listed whose product meets or exceedds the specifications are approved for use on the project. Other manufacturers muat have a minimum of five (5) years experience manufactuering products meeting or excedding the specifications and comply with Division 1 requirements regarding substitutions to be considered.

1. Manitowoc; WI; (920) 682-0161.

2. Hoshizaki America.; GA; (800) 438-6087.

3. Follet Ice; PA; (610) 252-7301.

2.2 ~~APPLIANCES~~

A. ~~Freestanding Ice Machine (Concessions Room):~~
   1. ~~Basis of Design: Manitoiwoc. Model IYT1200A.~~
   2. ~~Dimensions: 30 inches wide by 29 1/2 inches high.~~
   3. ~~Finish: Stainless Steel.~~
   4. ~~Ice Production: Minimum 1,213 llbs.~~
   5. ~~Refrigerant: R410A.~~
   6. ~~Electrical: 208 V x 60 Hz x 1 PH.~~
   7. ~~Cube Type: Half Dice.~~
   8. ~~Accessories: Ice scoop and related accessories necessary for a complete installation and use.~~

B. Under-counter Freestanding Ice Machine (Teachers Lounge, Clinic, ~~and training room~~):
   1. Basis of Design: Manitowoc, Model UYF-0310A.
   2. Ice Type: Half-Dice.
   3. Daily Production: 235 pounds.

C. Ice Bin:
   1. Basis of Design: Manitowoc, Model D970.
   2. Storage Capacity: 882 lbs.
   3. Provide one (1) ice bin for each non-under-counter ice machine in the construction documents.

D. Appliances, Equipment, and Fixtures: Coordinate equipment, fixtures, appliances regardless which party provides or furnishes. Ensure adequate power supply and properly locate plumbing lines and hook ups, water and drain connections and accessories.

E. Accessories: Provide accessories necessary for a working installation.

2.3 FINISHES

A. Comply with NAAMM Metal Finishes Manual for Architectural and Metal Products for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Stainless Steel Finish: Provide appliances with standard finish complying with manufacturer's written instructions for surface preparation including ground and polished stainless steel surfaces for uniform, directionally textured finish.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine conditions for compliance with requirements for installation tolerances and conditions affecting performance of work. Coordinate installation of equipment, appliances, fixtures, and other items.
   1. Examine roughing in for piping systems and verify actual locations of piping connections before equipment installation.
   2. Examine electrical circuits and rating and verify locations and sufficient ratings for items requiring electrical power.
   3. Examine space to receive items and verify the space is of sufficient size and configuration for items.

B. Proceed with installation after correcting unsatisfactory conditions.

3.2 INSTALLATION

A. Comply with manufacturer's written instructions. Install fixtures level and plumb according to roughing in drawings.

B. Power Supply: Coordinate power supply, grounding, outlets, and electrical wiring with locations indicated for appliances and equipment.

C. Freestanding Equipment: Place units in final locations after finishes have been completed in each area. Verify that clearances are adequate to properly operate equipment.

D. Utilities: Refer to plumbing and electrical sections for plumbing and electrical requirements.

E. Connections and Hook ups: Coordinate location of services.
   1. Grounding: Ground equipment in accordance with applicable standards and code requirements.
   2. Wiring: Connect wiring in accordance with manufacturer recommendations.
   3. Provide necessary electrical outlets.

3.3 FIELD QUALITY CONTROL

A. Perform the following tests and inspections with the assistance of a factory authorized service representative:
   1. Perform visual, mechanical, and electrical inspection and testing for each appliance according to manufacturer written recommendations. Certify compliance with each manufacturer appliance performance parameters.
   2. Leak Test: After installation, test for leaks. Repair leaks and retest until no leaks exist.
   3. Operational Test: After installation, start units to confirm proper operation.
   4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and components.

B. An appliance will be considered defective if it does not pass tests and inspections.

C. Prepare test and inspection reports.

D. Test each equipment item to verify proper operation. Make necessary adjustments. Replace malfunctioning appliances and components, then retest. Repeat procedure until units operate properly.

3.4 CLEANING

A. Clean equipment with manufacturers' recommended cleaning methods and materials. After completing installation of equipment and fixtures, inspect exposed finishes and repair damaged finishes. Remove packing materials from site.

3.5 PROTECTION

A. Provide protective covering for installed appliances. Do not allow use of equipment items for temporary facilities.

3.6 DEMONSTRATION

A. Engage a factory authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain equipment.

END OF SECTION 11 46 83

SECTION 12 35 83 - PERFORMING ARTS CASEWORK

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes requirements including but not limited to:
   1. ~~Musical Library System.~~
   2. Storage Cabinets.
   3. ~~Tuba/Sousaphone Wall Bracket.~~
   4. Accessories necessary for a complete installation.

B. Related Sections:
   1. Section 09 65 13 - Resilient Base and Accessories.

1.3 REFERENCE STANDARDS

1.4 SUBMITTALS

A. Product Data:
   1. Manufacturer's specifications and other data needed to prove compliance with specified requirements.
   2. Manufacturer's installation instructions.

B. Shop Drawings:
   1. Complete shop drawings for the Architect’s approval.
   2. Unit layout for Owner's approval.

C. Samples: Include color charts showing manufacturer's full range of colors for Architect’s selection.

1.5 WARRANTY

A. Storage - Written warranty in which manufacturer agrees to repair or replace components of installation that fail in materials or workmanship within specified warranty period:
   1. Warranty does not include deterioration or failure pet due to unusual traffic, failure of substrate, vandalism, or abuse.
   2. Warranty Period: Ten (10) years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years’ experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
   1. Melhart Music Center.
   2. TMI Systems Design Corp.
   3. Wenger Corporation (The).

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

2.2 MATERIALS AND MANUFACTURERS

A. ~~Music Library System - Standard width 7-shelf unit:~~
   1. ~~Basis of Design: Model 173G700 manufactured by The Wenger Corporation.~~
   2. ~~Overall Dimensions:~~
      a. ~~Closed Position: Refer to Drawings.~~
      b. ~~Open Position: refer to Drawings.~~
   3. ~~Pull-out design, equally spaced shelves provide 10-1/2 inch of available height per shelf.~~

4. ~~Cabinet Doors: Vertical Wire grille.~~
5. ~~Frame: 16 gauge, 1 inch square tubular steel, painted black.~~
6. ~~Color: Architect to select from Manufactuer's full range.~~

B. Storage Cabinets:
1. Basis of Design: UltraStor Storage Cabinets manufactured by The Wenger Corporation.The required cabinet model number within this product range are provided in the construction drawings where the specification is tagged.
2. Wall Panels: 3/4 thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in manufacturer’s standard colors.
3. Shelves: Blow-molded polyethylene mounted with self-lock shelf supports.
4. Grooved shelves allow air to circulate.
5. Edging: 1/8 inch radiused PVC.
6. Door Options: Architect to select.
7. Cabinets: Five adjustable steel leveling glides for uneven floors.
8. Cabinet Doors: Vertical wire grille.
9. Doors: Heavy-duty, 5-knuckle institutional ANSI/BHMA A156.9.
10. Color: Architect to select from Manufactuer's full range.

C. ~~Tub/Sousaphone Wall Bracket:~~
1. ~~Basis of Design: Model #049E100 Tuba/Sousaphone Wall Bracket as manufactured by The Wenger Corporation.~~
2. ~~Height: Adjusts from 22-1/2 inch min. to 35 inch max.~~
3. ~~Width: Adjusts 13-1/2 inch min. to 22 inch max.~~
4. ~~Color: Architect to select from Manufactuer's full range.~~

PART 3 EXECUTION

3.1 INSTALLATION

A. Install in accordance with manufacturer's printed instructions.

B. Adjust for proper operation.

C. Installation of four (4) inch rubber base.

END OF SECTION 12 35 83

SECTION 32 31 19 - DECORATIVE METAL FENCES AND GATES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Decorative aluminum fences.
   2. Gates.

B. Related Requirements:
   1. Section 03 30 00 - Cast-in-Place Concrete.
   2. Section 31 23 16 - Excavation.

1.3 REFERENCE STANDARDS

A. ASTM A276/A276M - Standard Specification for Stainless Steel Bars and Shapes; 2017.

B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

C. ASTM F2408 - Standard Specification for Ornamental Fences Employing Galvanized Steel Tubular Pickets; 2016.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to start of work of this section; require attendance by affected installers.

1.5 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures for submittal procedures.

B. Product Data: Submit manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

C. Shop Drawings:
   1. Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, gates, and schedule of components.

D. Manufacturer's Installation Instructions: Indicate installation requirements, post foundation anchor bolt templates,..

E. Manufacturer's Qualification Statement.

F. Installer's Qualification Statement.

G. Project Record Documents: Accurately record actual locations of property perimeter posts relative to property lines.

H. Field Inspection Records: Provide installation inspection records that include post settings, framework, fittings and accessories, gates, and workmanship.

I. Manufacturer's Warranty.

J. Maintenance Materials: Furnish the following for Owner's use in maintenance of project:
   1. Refer to Section 01 60 00 - Product Requirements for additional provisions.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.

B. Installer Qualifications: Experienced with type of construction involved and materials and techniques specified and approved by fence manufacturer.

1.7 DELIVERY, STORAGE AND HANDLING

A. Store materials in a manner to ensure proper ventilation and drainage. Protect against damage, weather, vandalism and theft.

1.8 WARRANTY

A. Refer to Section 01 77 00 - Closeout Procedures for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Specifications are based on the products identified as Basis of Design. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
   1. Decorative Aluminum Fences and Gates:
      a. Alumi-Guard: www.alumi-guard.com/#sle.
      b. Ameristar Perimeter Security, USA: www.ameristarfence.com/#sle.
      c. Ideal Aluminum Products: www.ideal-ap.com/#sle.
      d. Knotwood, a brand of OmniMax International: www.knotwood.com/#sle.
      e. Superior Aluminum Products, Inc: www.superioraluminum.com/#sle.
      f. Ultra Aluminum Manufacturing Inc: www.ultrafence.com/#sle.
   2. Specialty Hardware:
      a. DAC Industries, Inc; Detex Exit Bar: www.dacindustries.com/#sle.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

2.2 FENCES

A. Fences: Complete factory-fabricated system of posts and panels, accessories, fittings, and fasteners; finished with electrodeposition coating, and having the following performance characteristics:

B. Electro-Deposition Coating: Multistage pretreatment/wash with zinc phosphate, followed by epoxy primer and acrylic topcoat.
   1. Total Coating Thickness: 2 mils (0.058 mm), minimum.

C. Aluminum: ASTM B221.
   1. Tubular Pickets, Rails and Posts: 6005-T5 alloy.
   2. Extrusions for Posts and Rails (Outer Channel): 6005-T5 alloy.
   3. Extrusions for Pickets and Rail (Inner Slide Channels): 6063-T5 alloy.

D. Fasteners: ASTM A276/A276M, Type 302 stainless steel; finished to match fence components.

2.3 ALUMINUM FENCE

A. Decorative Aluminum Fence System: Provide fence meeting the Test Load and Coating Performance requirements of ASTM F2408 for Industrial class.
   1. Fence Panels: ~~8 feet~~ 6 feet (1.8 m) high by 6 feet (1.8 m) long.
      a. Posts: Aluminum extrusions; 2-1/2 inches (63 mm) square.
      b. Rails: Extruded aluminum channels.
      c. Pickets: Extruded aluminum tubes.
         1) Style: Pickets with finial extend above top rail.
      d. Fasteners: Manufacturer's standard stainless steel bolts, screws, and washers; factory finish fasteners to match fence.

e. Accessories: Aluminum castings, extrusions, and cold-formed strips; factory finished to match fence.
f. Color: To be selected by Architect from manufacturer's standard range.
g. Basis of Design:
1) Ameristar Perimeter Security, USA; Aegis Plus Majestic: www.ameristarfence.com/#sle.

B. Decorative Aluminum Post-and-Rail Fence and Swinging Gates:
1. Posts: Aluminum extrusions; 4 inches (101 mm) square.
2. 3/16 inch minimum
3. Color: Black.
4. Products:
a. Alumi-Guard, Post and Rail Fences; Chariot 2 - Rail: www.alumi-guard.com/#sle.

C. Decorative Aluminum Cantilever Gates:
1. Gate Panels: Manufacturer's standard decorative aluminum fence panels.
2. Description: 9 inch square tube frame.
3. Height and Length: Refer to Door Schedule.
4. Hardware:
a. Latch: Manufacturer's standard mechanism; factory finished galvanized steel.
b. Truck Assembly: Manufacturer's standard, self-aligning, wheeled truck assembly supporting weight of gate plus 2,000 pound (910 kg) reaction load; provide number of truck assemblies per gate recommended by manufacturer.
c. Guide Wheel Assembly: Manufacturer's standard, adjustable, dual wheel assembly; provide number of guide wheels per gate recommended by manufacturer.
5. Operation: Manual.
6. Color: Manufacturer's standard, factory applied-Black.

2.4 SPECIALITY HARDWARE

A. Rollers: Finished to match fence components.
1. Load Rating: 500 pounds (227 kg).
2. Groove: Flat.
3. Material: Steel.
4. Bearings: Ball.
5. Mounting: Center.
6. Brackets: Round.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Set fence posts in accordance with the manufacturer recommended spacing.

C. When cutting rails immediately seal the exposed surfaces by:
1. Removing metal shavings from cut area.
2. Apply zinc-rich primer to thoroughly cover cut edge and drilled hole; allow to dry.
3. Apply two coats of custom finish spray paint matching fence color.
4. Failure to seal exposed surfaces in accordance with manufacturer's instructions will negate manufacturer's warranty.

D. Excavate post holes in accordance with Section 31 23 16.

3.4 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch (6.3 mm).

B. Maximum Offset From Indicated Position: 1 inch (25.4 mm).

C. Minimum Distance from Property Line: 6 inches (152 mm).

3.5 FIELD QUALITY CONTROL

A. Refer to Section 01 40 00 - Quality Requirements for additional requirements.

B. Layout: Verify that fence installation markings are accurate to design, paying attention to gate locations, underground utilities, and property lines.

C. Post Settings: Randomly inspect three locations against design for:
   1. Hole diameter.
   2. Hole depth.
   3. Hole spacing.

D. Fence Height: Randomly measure fence height at three locations or at areas that appear out of compliance with design.

E. Workmanship: Verify neat installation free of defects.

3.6 CLEANING

A. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.

B. Clean fence with mild household detergent and clean water rinse well.

3.7 CLOSEOUT ACTIVITIES

A. Refer to Section 01 77 00 - Closeout Procedures for closeout submittals.

B. Refer to Section 01 79 00 - Demonstration and Training for additional requirements.

3.8 PROTECTION

A. Protect installed products until completion of project.

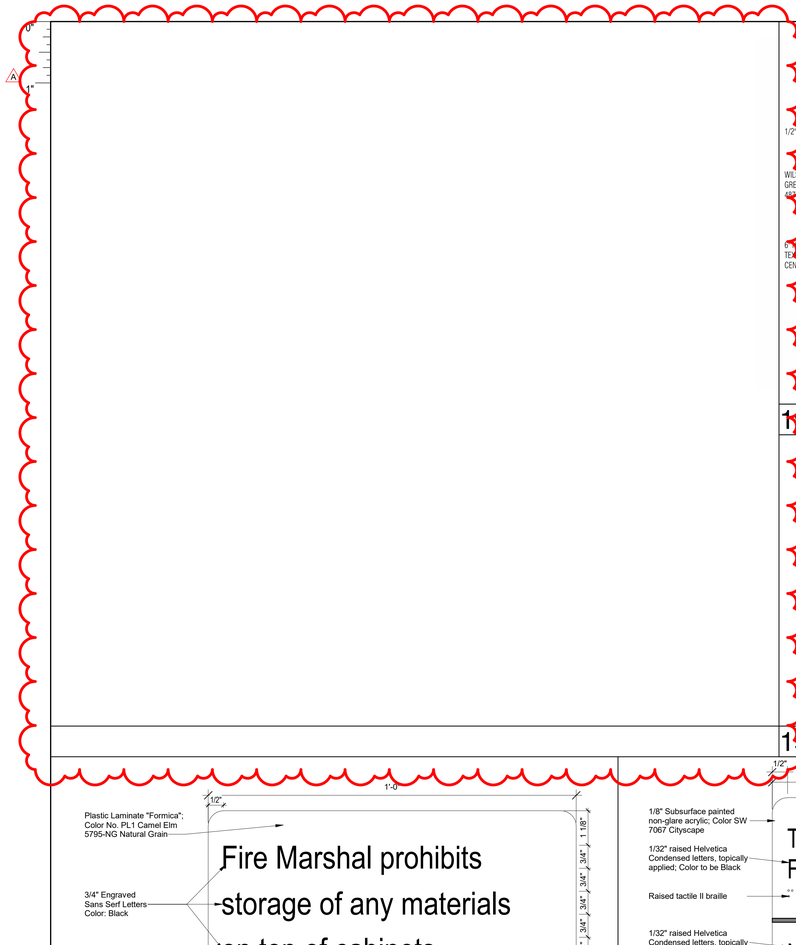
B. Touch-up, repair, or replace damaged products before Date of Substantial Completion.

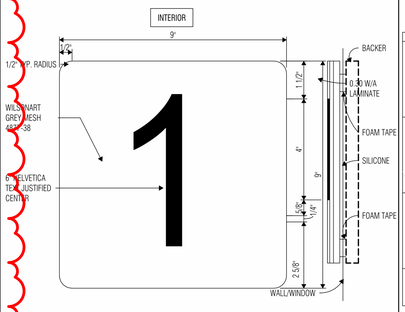
END OF SECTION 32 31 19

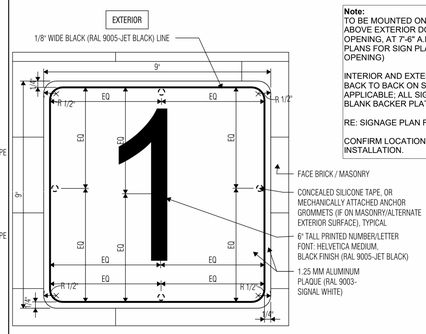
SIGNAGE GRAPHIC STANDARDS

G-043

FOR BLUEBEAM LABELING/DOOR:







Note:
TO BE MOUNTED ON EXTERIOR WALL OR WINDOW ABOVE EXTERIOR DOOR, CENTERED ON DOOR OPENING, AT 7'-6" A.F.F., U.N.O. (REFER TO SIGNAGE PLANS FOR SIGN PLACEMENT ABOVE DOOR OPENING)

INTERIOR AND EXTERIOR SIGN SHALL BE MOUNTED BACK TO BACK ON STOREFRONT WHEN APPLICABLE; ALL SIGNS MOUNTED ON GLASS W/ BLANK BACKER PLATE ON OTHER SIDE OF GLASS

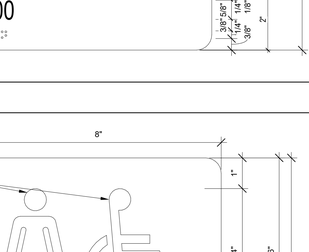
RE: SIGNAGE PLAN FOR DOOR NUMBERING

CONFIRM LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

GENERAL GRAPHICS NOTES

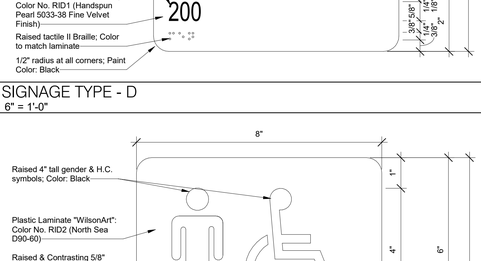
1. ALL GRAPHIC SIGNAGE SHALL BE COMPLIANT WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS, VERIFY REQUIREMENTS AND COMPLIANCE PRIOR TO FABRICATION.
2. PROVIDE AND INSTALL ONE BLANK BACKER PLATE ON THE OPPOSITE SIDE OF GLASS PANEL FOR ALL SIGNS INSTALLED ON GLASS UNLESS OTHERWISE NOTED. BLACKER PLATE SIZE AND MATERIAL SELECTION TO MATCH THE SELECTION OF ITS CORRESPONDING SIGN.
3. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO DOOR OR AT DOUBLE LEAF DOOR LOCATIONS, INSTALL SIGN ON THE NEAREST ADJACENT WALL.
4. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE.
5. CHARACTER FONTS SHALL BE UPPERCASE, SANS SERIF, HELVITICA MEDIUM, NON-ITALIC, NON-OBLIQUE, NON-SCRIPT, NON-DECORATIVE, RAISED 1/32 INCH, PAINTED WHITE.
6. CHARACTER FONT PROPORTIONS SHALL BE HAVE A WIDTH OF THE UPPERCASE LETTER "O" 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
7. CHARACTER FONT HEIGHT SHALL BE 5/8 INCH HIGH MINIMUM AND 2 INCH HIGH MAXIMUM.
8. CHARACTER FONT STROKE THICKNESS OF THE UPPER CASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
9. CHARACTER FONT SPACING OF CHARACTERS WITH RECTANGULAR CROSS SECTIONS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.
10. CHARACTER FONT SPACING OF CHARACTERS WITH NON-RECTANGULAR CROSS SECTIONS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SETCIONS.
11. CHARACTER FONTS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
12. GRADE 2 BRAILLE SHALL ACCOMPANY ALL RAISED TEXT. BRAILLE DOTS SHALL HAVE DOMED OR ROUNDED SHAPE, AND BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.
13. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
14. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 INCHES MINIMUM IN HEIGHT.
15. SIGN MATERIAL SHALL BE 1/4 INCH THICK WITH MATTE, NON-GLARE PLASTIC LAMINATE FRONT FACE AND MATTE, NON-GLARE PLASTIC LAMINATE BACK FACE. CHARACTER AND SYMBOL COLOR SHALL CONTRAST WITH BACKGROUND COLOR. COLORS SHALL BE SELECTED BY ARCHITECT AND OR OWNER.
16. SIGN EDGE SHALL BE PAINTED ALL AROUND TO MATCH SIGN FACE.
17. CONTRACTOR TO PROVIDE ONE SIGN PER DOOR OR NUMBER IN SCHEDULE WHICHEVER IS GREATER.

19 INT. DOOR NUMBER SIGNAGE - P
6" = 1'-0"

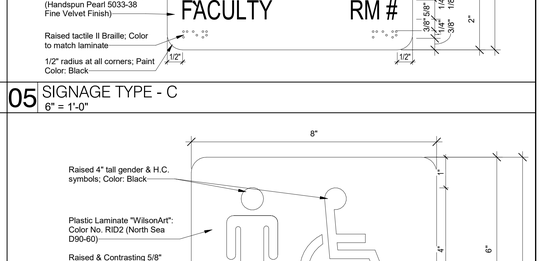


Note:
Confirm location with Architect prior to installation.

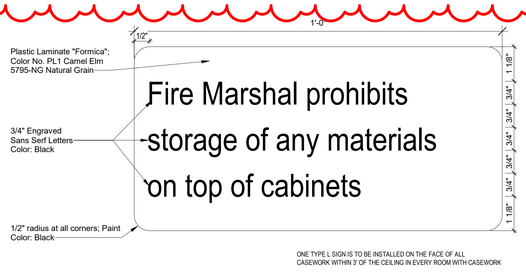
18 EXT. DOOR NUMBER SIGNAGE - Q
6" = 1'-0"



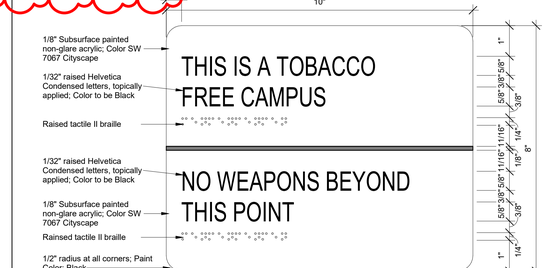
17 GENERAL NOTES GRAPHIC
6" = 1'-0"



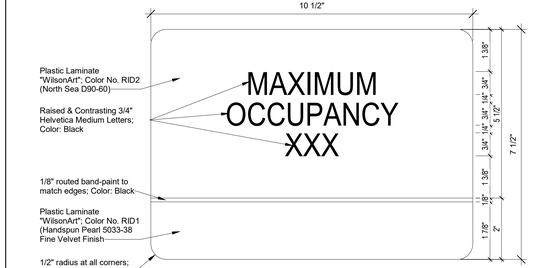
15 SIGNAGE TYPE - FDC
1 1/2" = 1'-0"



ONE TYPE L SIGN IS TO BE INSTALLED ON THE FACE OF ALL CASEWORK WITHIN 3' OF THE CEILING IN EVERY ROOM WITH CASEWORK



14 SIGNAGE TYPE - H
6" = 1'-0"



13 SIGNAGE TYPE - K
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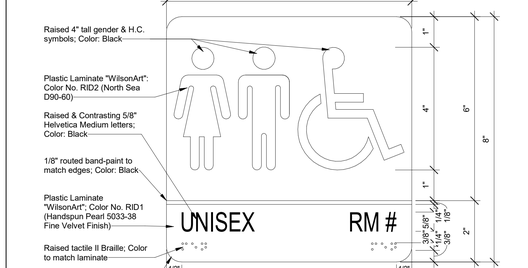
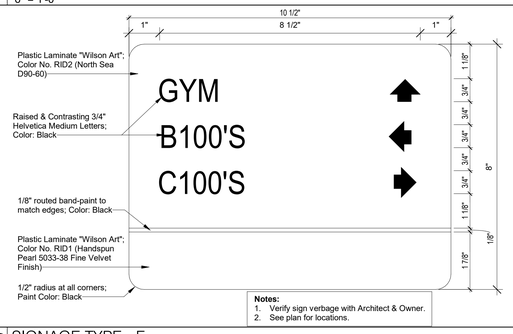
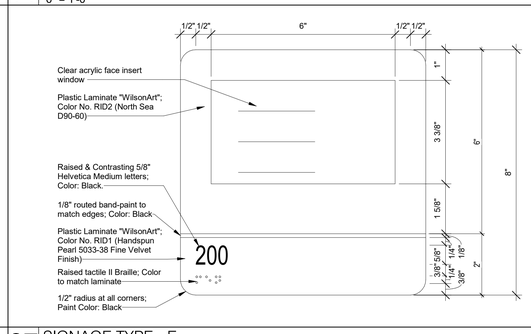


12 SIGNAGE TYPE - L
6" = 1'-0"

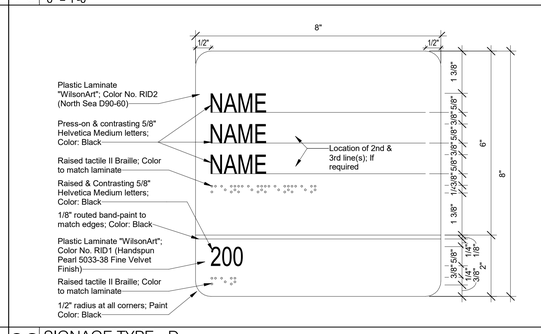


Notes:
1. Verify sign verbage with Architect & Owner.
2. See plan for locations.

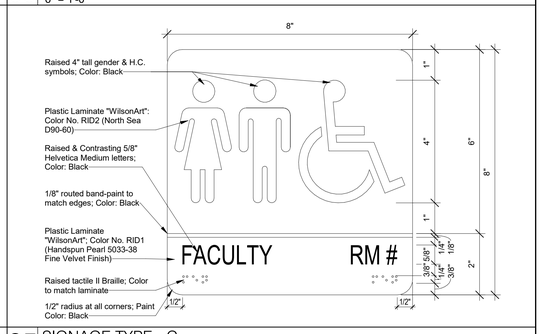
11 SIGNAGE TYPE - M
6" = 1'-0"



10 SIGNAGE TYPE - J
6" = 1'-0"

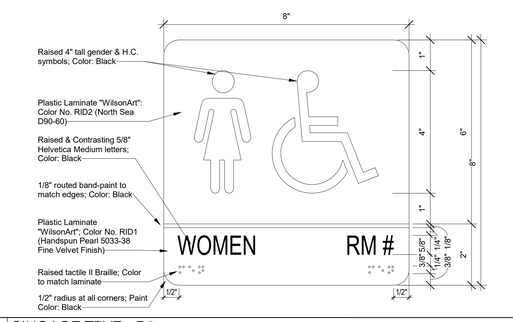


09 SIGNAGE TYPE - G
6" = 1'-0"



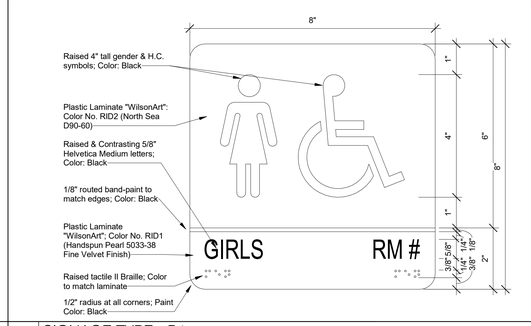
08 SIGNAGE TYPE - F
6" = 1'-0"

04 SINGAGE TPYE - B2
6" = 1'-0"

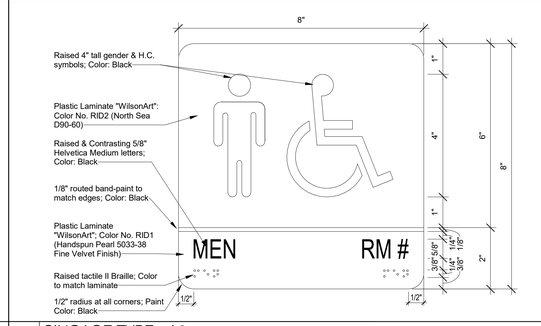


07 SIGNAGE TYPE - E
6" = 1'-0"

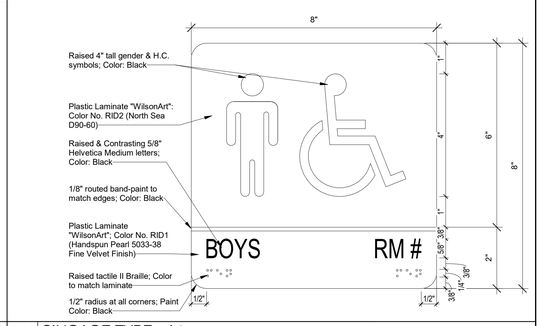
03 SIGNAGE TYPE - B1
6" = 1'-0"



06 SIGNAGE TYPE - D
6" = 1'-0"



05 SIGNAGE TYPE - C
6" = 1'-0"



01 SINGAGE TYPE - A1
6" = 1'-0"

Plot Stamp:
10/23/2025 7:31:26 PM

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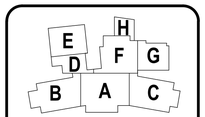

KEY PLAN
NORTH: PLAN TRUE

INTERIM NOTIFICATION

Architect
Architectural Registration No. XXXX

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CLIENT
LAMAR CONSOLIDATED ISD

DATE 10/13/2025
PROJECT NUMBER 240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: Author

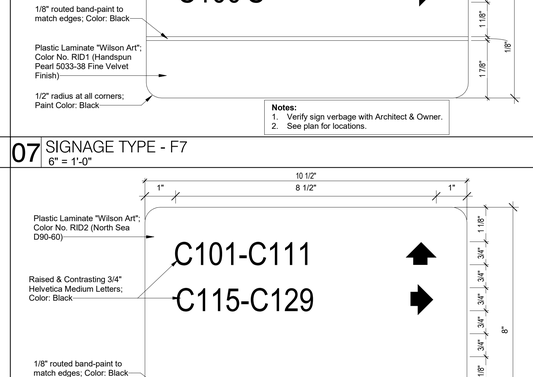
SIGNAGE GRAPHIC STANDARDS

G-043

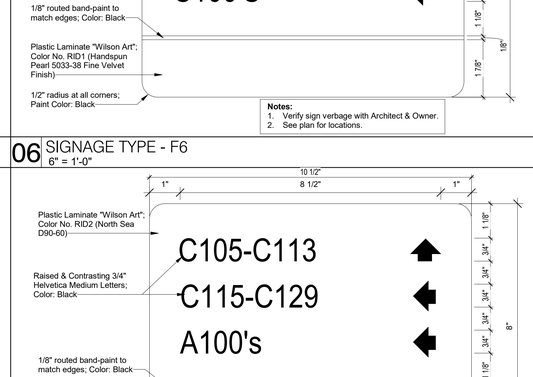
0"
1"

SIGNAGE GRAPHIC STANDARDS
G-044
FOR BLUEBEAM LABELING/OCR:

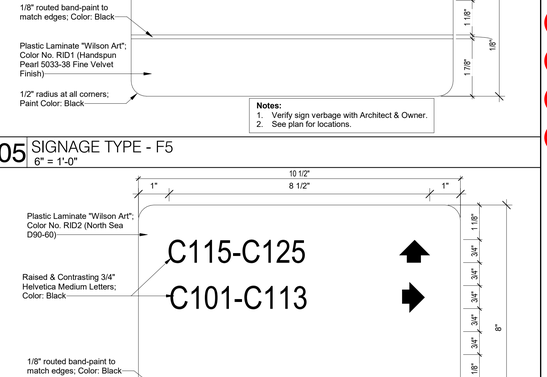
ISSUE FOR PROPOSAL



15 SIGNAGE TYPE - F15
6" = 1'-0"



14 SIGNAGE TYPE - F14
6" = 1'-0"



13 SIGNAGE TYPE - F13
6" = 1'-0"

12 SIGNAGE TYPE - F12
6" = 1'-0"

11 SIGNAGE TYPE - F11
6" = 1'-0"

10 SIGNAGE TYPE - F10
6" = 1'-0"

09 SIGNAGE TYPE - F9
6" = 1'-0"

08 SIGNAGE TYPE - F8
6" = 1'-0"

07 SIGNAGE TYPE - F7
6" = 1'-0"

06 SIGNAGE TYPE - F6
6" = 1'-0"

05 SIGNAGE TYPE - F5
6" = 1'-0"

04 SIGNAGE TYPE - F4
6" = 1'-0"

03 SIGNAGE TYPE - F3
6" = 1'-0"

02 SIGNAGE TYPE - F2
6" = 1'-0"

01 SIGNAGE TYPE - F1
6" = 1'-0"

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KEY PLAN
NORTH PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

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10/13/2025	240541

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A	Addendum 1	10.23.25

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DRAWN BY: Author

SIGNAGE GRAPHIC STANDARDS

G-044

Plot Stamp:
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SIGNAGE GRAPHIC STANDARDS

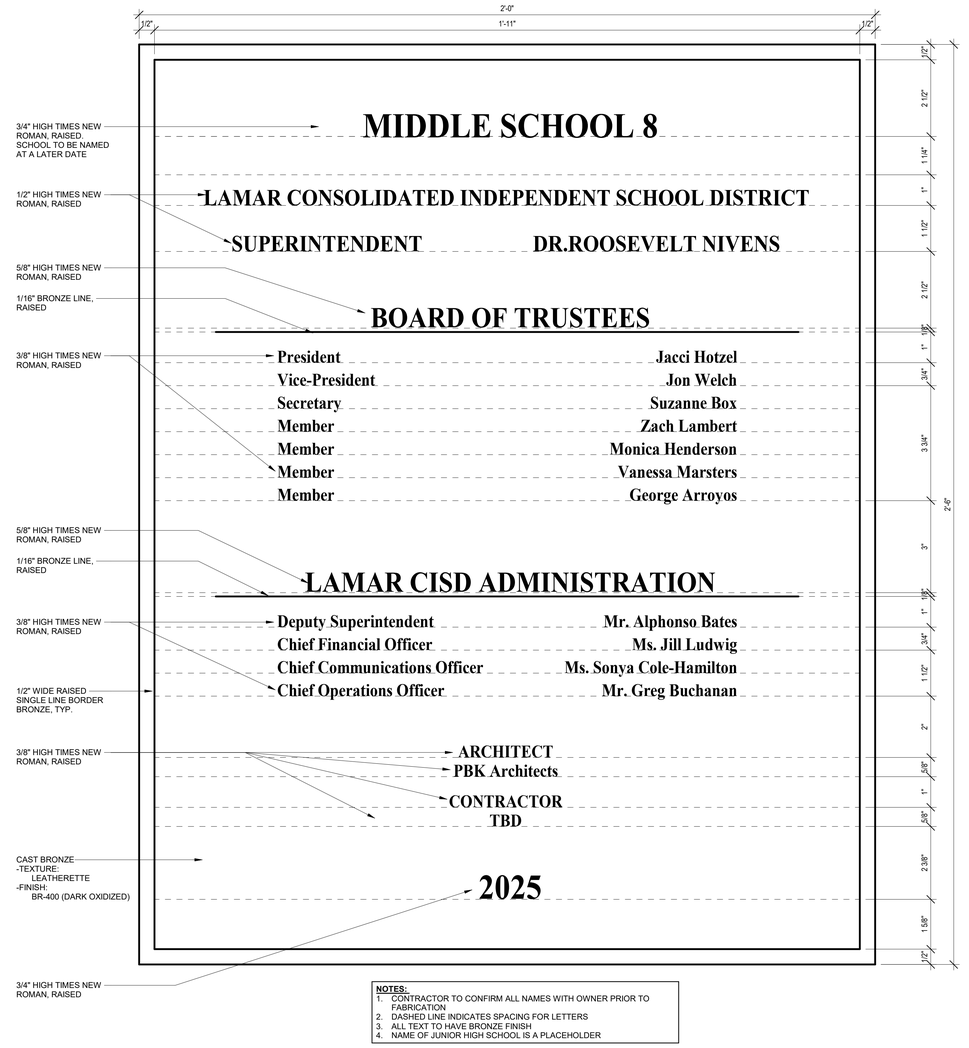
G-045

FOR BLUEBEAM LABELING/OCR:

0"

1"

A



NOTES:
1. CONTRACTOR TO CONFIRM ALL NAMES WITH OWNER PRIOR TO FABRICATION
2. DASHED LINE INDICATES SPACING FOR LETTERS
3. ALL TEXT TO HAVE BRONZE FINISH
4. NAME OF JUNIOR HIGH SCHOOL IS A PLACEHOLDER

01 DEDICATION PLAQUE
6" = 1'-0"

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KEY PLAN

NORTH: PLAN TRUE

INTERIM NOTIFICATION

Architect
Architectural Registration No. XXXX

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LAMAR CONSOLIDATED ISD

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No.	Description	Date
1	Addendum 1	10.23.25

CHECKED BY: Checker

DRAWN BY: Author

SIGNAGE GRAPHIC STANDARDS

G-045

Plot Stamp:
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ARCHITECTURAL SITE PLAN

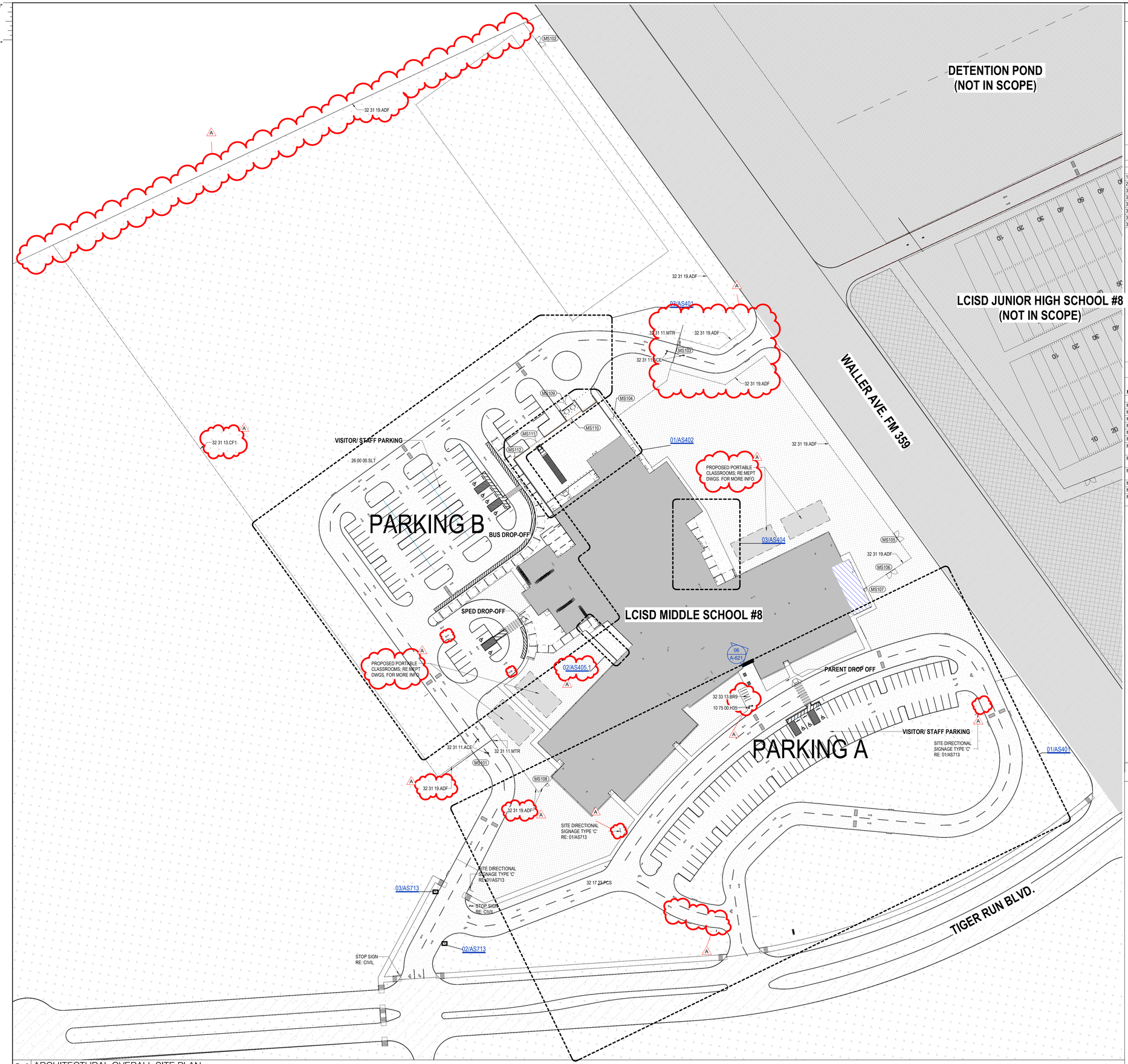
AS100

FOR BLUEBEAM LABELING/OCR:

0"

1"

ISSUE FOR PROPOSAL



01 ARCHITECTURAL OVERALL SITE PLAN
1" = 50'-0"

GENERAL ARCH SITE PLAN NOTES

1. REFER TO CIVIL DOCUMENTS.
2. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZONTAL DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O.
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS.
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCHITECT PRIOR TO POURING OF CONCRETE.
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF SITE SIGNAGE.
10. ALL ACCESS CONTROL EQUIPMENT FOR MOTORIZED VEHICULAR GATES SHALL HAVE CLICK TO ENTER ENTRY CAPABILITIES.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
10 75 00.H35	35 FT FLAGPOLE
26 00 00.SLT	
32 17 23.PCS	CROSSWALK STRIPING, REFER TO CIVIL
32 31 11.ACE	ACCESS CONTROL EQUIPMENT
32 31 11.MTR	VEHICULAR GATE MOTOR
32 31 13.CF1	CHAIN-LINK FENCE SYSTEM
32 31 19.ADF	ALUMINUM DECORATIVE FENCE
32 33 13.BR9	9-LOOP BICYCLE RACK

GATE SCHEDULE

MARK	SIZE W	SIZE H	Width A/B	REMARKS	TYPE Q SIGN LETTERING
MS101	30'-0"	6'-0"	30'-0"	ORNAMENTAL ROLLING GATE (RE:15/AS711)	B
MS102	14'-0"	6'-0"	7'-0"/6'-0"	ORNAMENTAL DOUBLE GATE (RE:11/AS712)	L
MS103	30'-0"	6'-0"	30'-0"	ORNAMENTAL ROLLING GATE (RE:15/AS711)	H
MS104	8'-0"	6'-0"		BLACK VINYL CHAIN LINK DOUBLE GATE (RE:08/AS712, SIM.)	G
MS105	14'-0"	6'-0"	7'-0"/6'-0"	ORNAMENTAL DOUBLE GATE (RE:11/AS712)	I
MS106	14'-0"	6'-0"	7'-0"/6'-0"	ORNAMENTAL DOUBLE GATE (RE:11/AS712)	J
MS107	4'-0"	7'-0"	4'-0"	ORNAMENTAL SECURITY GATE W/ PANIC HARDWARE (RE:02/AS712)	K
MS108	4'-0"	7'-0"	4'-0"	ORNAMENTAL SECURITY GATE W/ PANIC HARDWARE (RE:01/AS712)	A
MS109	20'-0"	10'-0"	12'-0"/12'-0"	ORNAMENTAL DOUBLE GATE @ DUMPSTER ENCLOSURE (RE:11/AS712, SIM.)	E
MS110	4'-0"	6'-0"	4'-0"	BLACK VINYL CHAIN LINK GATE (RE: 08/AS712)	F
MS111	24'-0"	10'-0"	12'-0"/12'-0"	ORNAMENTAL DOUBLE GATE (RE:11/AS712, SIM.)	D
MS112	3'-0"	7'-0"	3'-0"	ORNAMENTAL SECURITY GATE W/ PANIC HARDWARE (RE:02/AS712, SIM.)	C

PARKING COUNT		
PARKING TYPE	PARKING REQUIRED	PARKING ACTUAL
Accessible	5	7
Accessible Van	1	2
Standard	148	154
Total	154	163

TOTAL PARKING SPACES REQUIRED: 154

ACCESSIBLE PARKING SPACES, PER TAS TABLE 208.2
151 TO 200 PARKING SPACES REQUIRES A MINIMUM NUMBER OF 6 ACCESSIBLE SPACES.
1 OF 6 PARKING SPACES TO BE VAN ACCESSIBLE

ARCH SITE PLAN LEGEND

- PROPOSED BUILDING
- NOT IN SCOPE
- ALTERNATE 1
- GRASS
- HYDRO MULCH
- X100 NUMBER OF PARKING SPACES / PARKING AREA
- PROPOSED TREE RE: LANDSCAPE
- LIGHT POLE
- PROPERTY LINE
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- FIRE LANE
- FIRE HYDRANT

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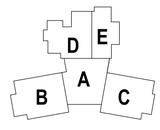

KEY PLAN

NORTH: PLAN TRUE

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DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

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ARCHITECTURAL SITE PLAN

AS100

Plot Stamp:
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ARCHITECTURAL ENLARGED SITE PLANS

AS405.1

FOR BLUEBEAM LABELING/OCR:

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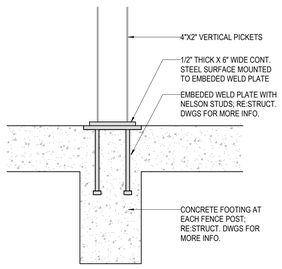
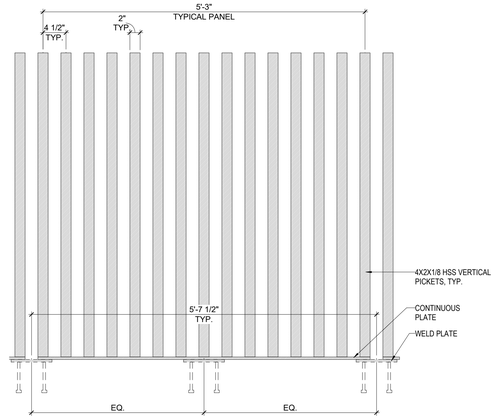
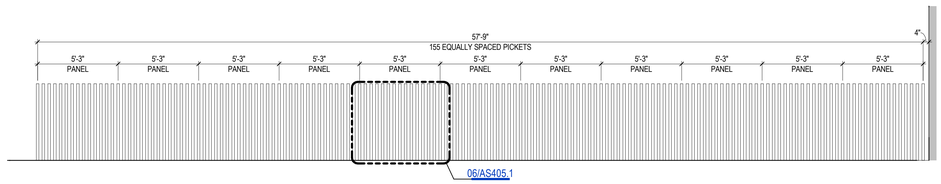


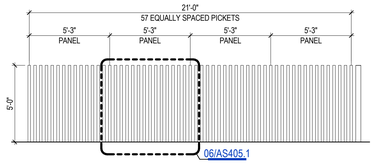
07 ORNAMENTAL FENCE - DETAIL
1 1/2" = 1'-0"



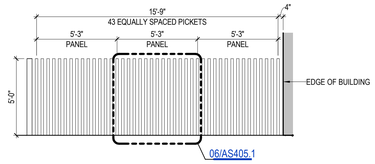
06 ORNAMENTAL FENCE PANEL ENLARGEMENT
1" = 1'-0"



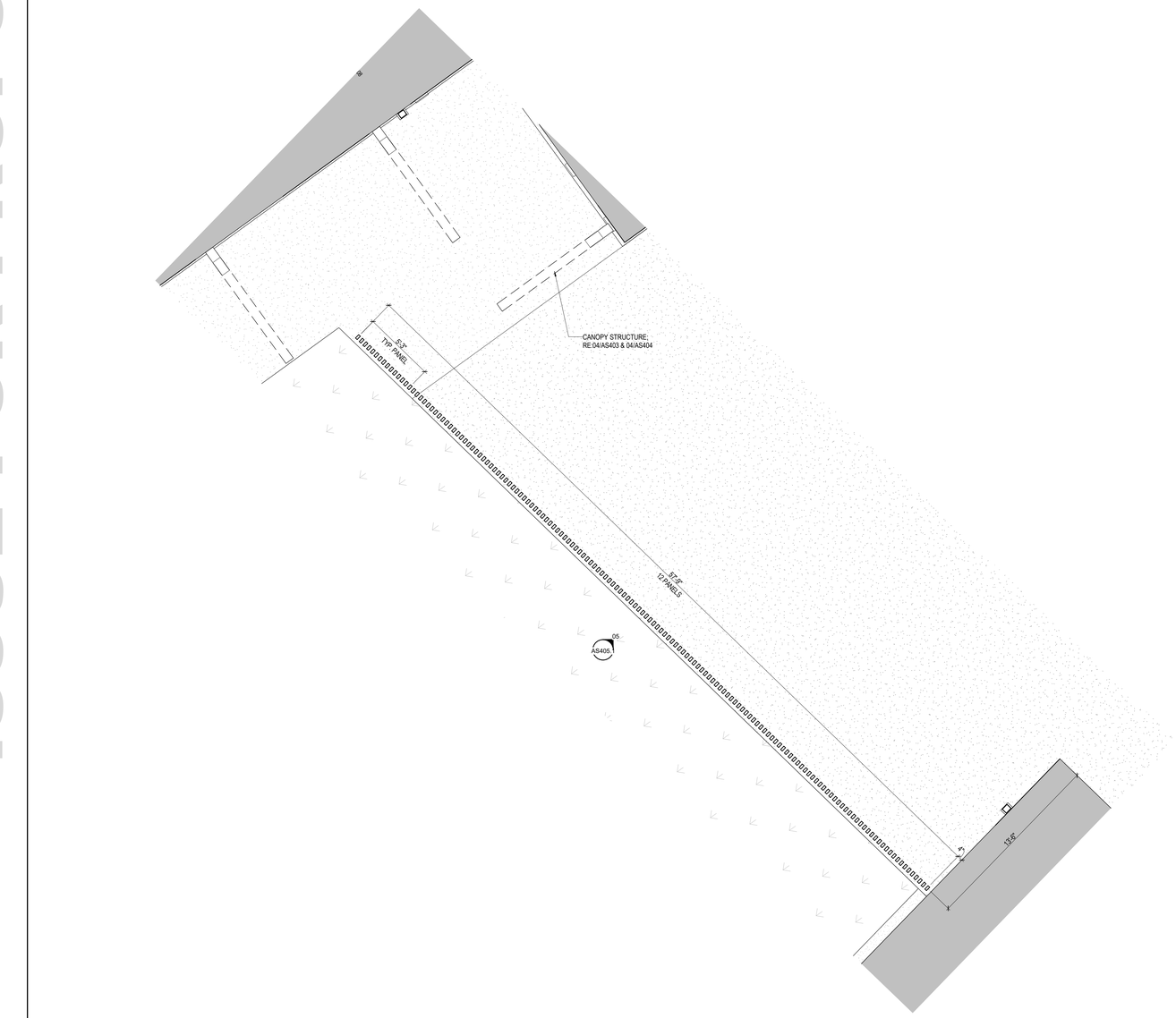
05 SPED COURTYARD - ORNAMENTAL FENCE ELEVATION
1/4" = 1'-0"



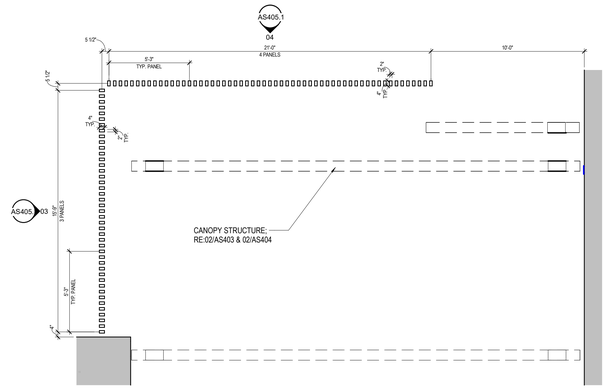
04 DINING COURTYARD - ORNAMENTAL FENCE ELEVATION
1/4" = 1'-0"



03 DINING COURTYARD - ORNAMENTAL FENCE ELEVATION
1/4" = 1'-0"



02 ORNAMENTAL FENCING @ SPED COURTYARD
1/4" = 1'-0"



01 ORNAMENTAL FENCING @ DINING COURTYARD
1/4" = 1'-0"

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713-961-4571 F
TX Firm: BR 1608

CIVIL
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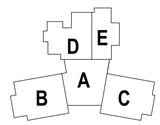
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

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LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

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ARCHITECTURAL ENLARGED SITE PLANS

AS405.1 A

Plot Stamp:
10/23/2025 7:35:57 PM

CANOPY DETAILS

AS407

FOR BLUEBEAM LABELING/OCR:

0"

1"

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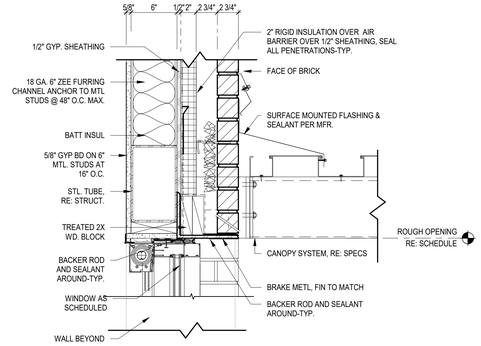
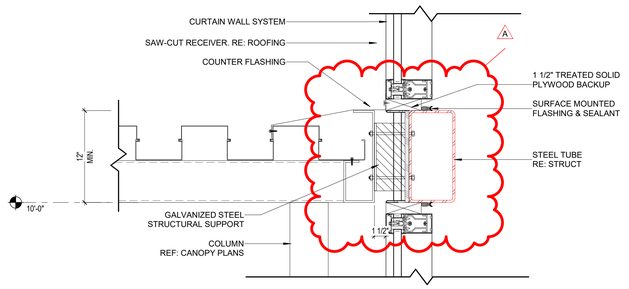
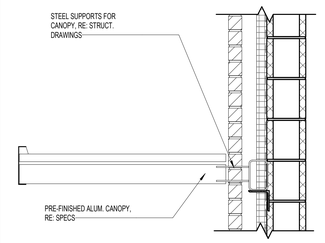


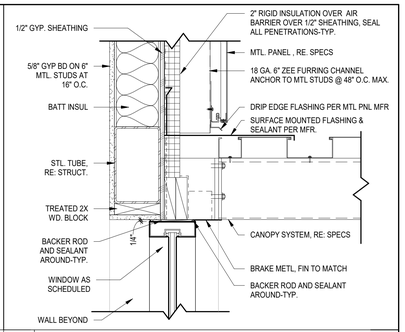
11 ALUM DR. HD. @ AWNING W/ BRICRK ON CFMF
1 1/2" = 1'-0"



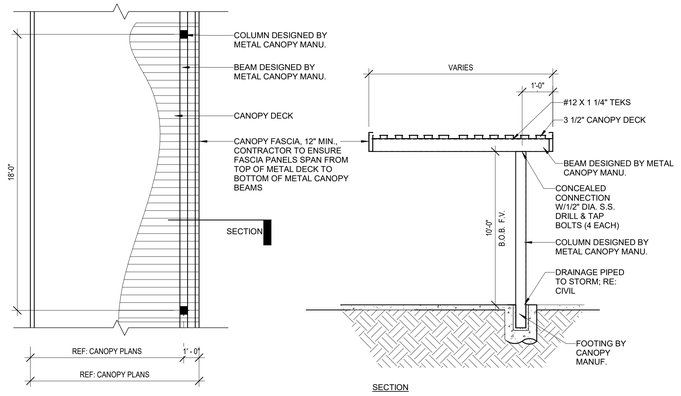
10 ALUM CANOPY DETAIL @ CFMF BUILDING - CURTAIN WALL
1 1/2" = 1'-0"



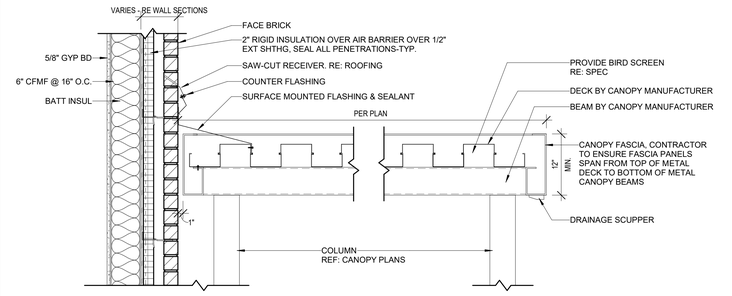
09 CANOPY SECTION @ DOOR
1" = 1'-0"



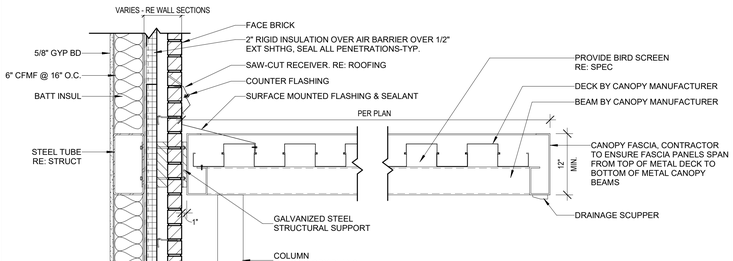
08 ALUM DR. HD. @ AWNING W/ MTL PNL ON CFMF
1 1/2" = 1'-0"



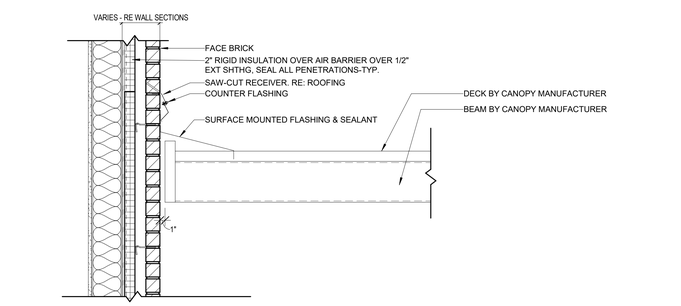
06 TYP PLAN & SECTION @ CANOPY
1/4" = 1'-0"



07 ALUM CANOPY DETAIL @ CFMF - FREE STANDING
1" = 1'-0"

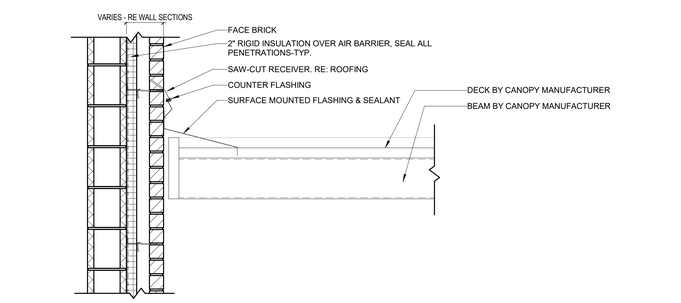


05 ALUM CANOPY DETAIL @ CFMF BUILDING - STONE ATTACHED
1" = 1'-0"

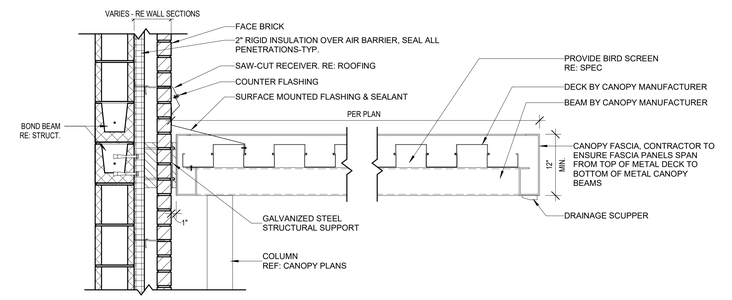


04 ALUM CANOPY DETAIL @ CFMF BUILDING
1" = 1'-0"

03 ALUM CANOPY DETAIL @ CFMF BUILDING - BRICK ATTACHED
1" = 1'-0"



02 ALUM CANOPY DETAIL @ CMU BUILDING
1" = 1'-0"



01 ALUM CANOPY DETAIL @ CMU BUILDING - BRICK ATTACHED
1" = 1'-0"

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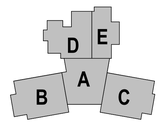


KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker

DRAWN BY: KASEY MC.

CANOPY DETAILS

AS407

A

ISSUE FOR PROPOSAL

COMPOSITE FOUNDATION PLAN

S-101

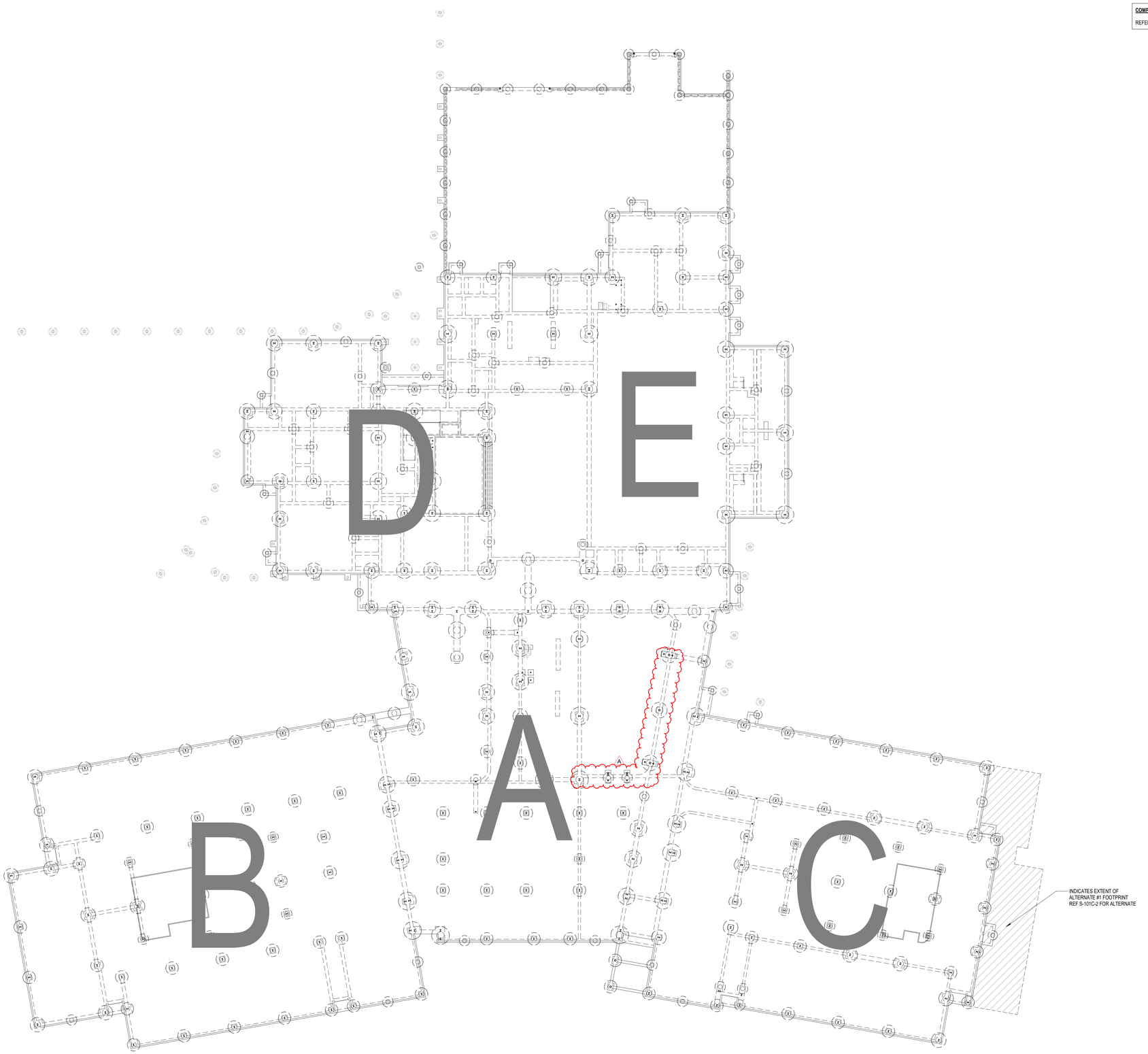
FOR BLUEBEAM LABELING/OCR:

0"

1"

COMPOSITE PLAN NOTE:

REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE FOUNDATION PLAN
1" = 20'-0"

Kubala ENGINEERS
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www.kubalaengineers.com
TX. REG. NO. F-23612

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MEPT
LEAP
T-713-540-3300
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FOOD SERVICE
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SPORTS ARCHITECTURE
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BUILDING ENVELOPE
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MIDDLE SCHOOL 8
VOLUME: X
CSP#: X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

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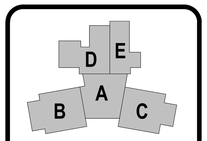


KEY PLAN
NORTH: PLAN TRUE

Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

COMPOSITE FOUNDATION PLAN

S-101

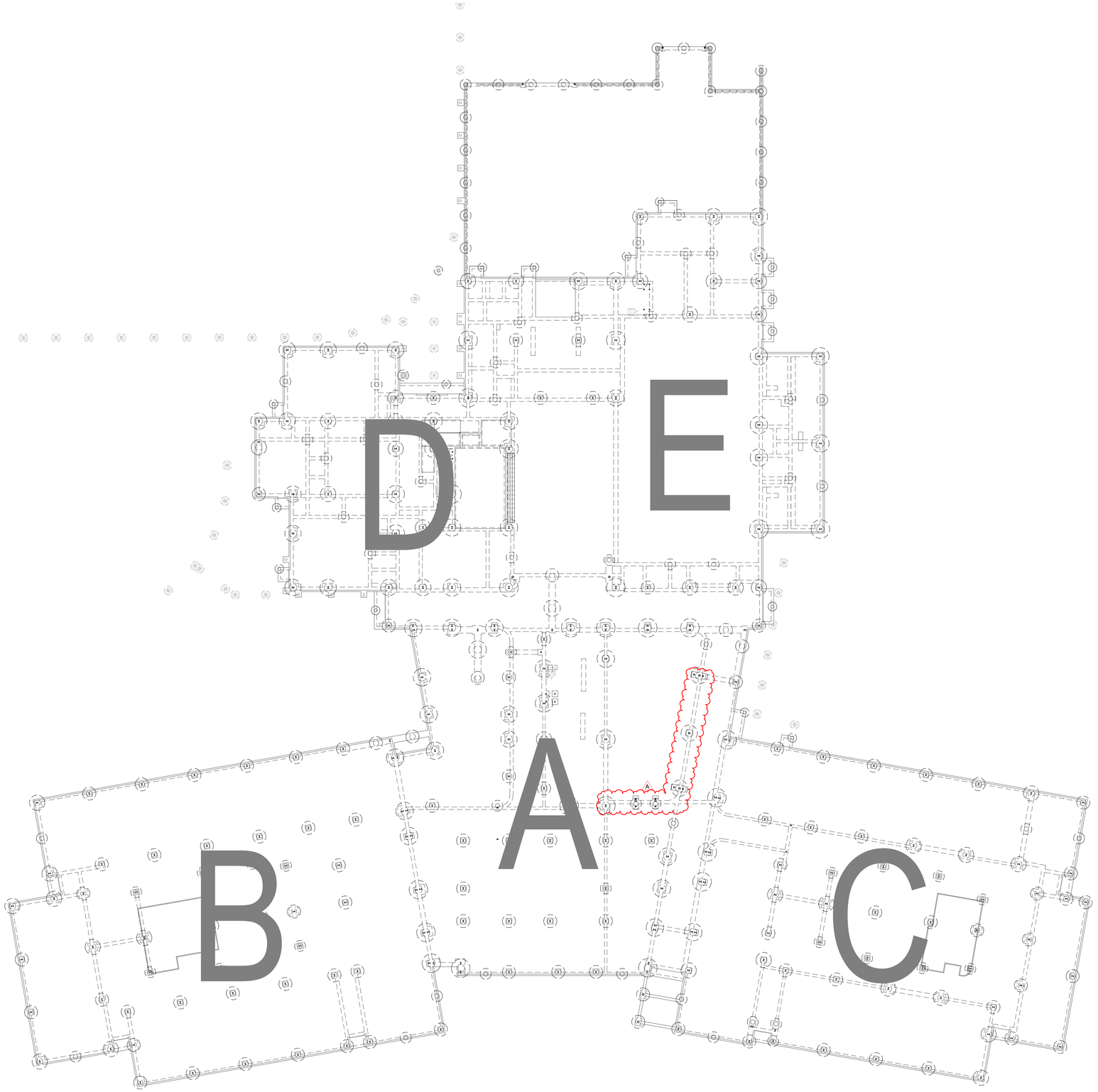
0"
1"

COMPOSITE FOUNDATION PLAN (ALT #1)
S-101-2
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

COMPOSITE PLAN NOTE:

REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE FOUNDATION PLAN (ALTERNATE 1)
1" = 20'-0"

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STRUCTURAL
DALLY T-713-521-8811
MEPT
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CSP# X
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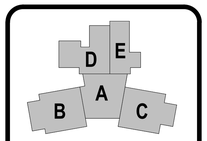

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
128551
LICENSED
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

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COMPOSITE FOUNDATION PLAN (ALT #1)

S-101-2

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FOUNDATION PLAN - AREA A
S-101A
FOR BLUEBEAM LABELING/OCR:

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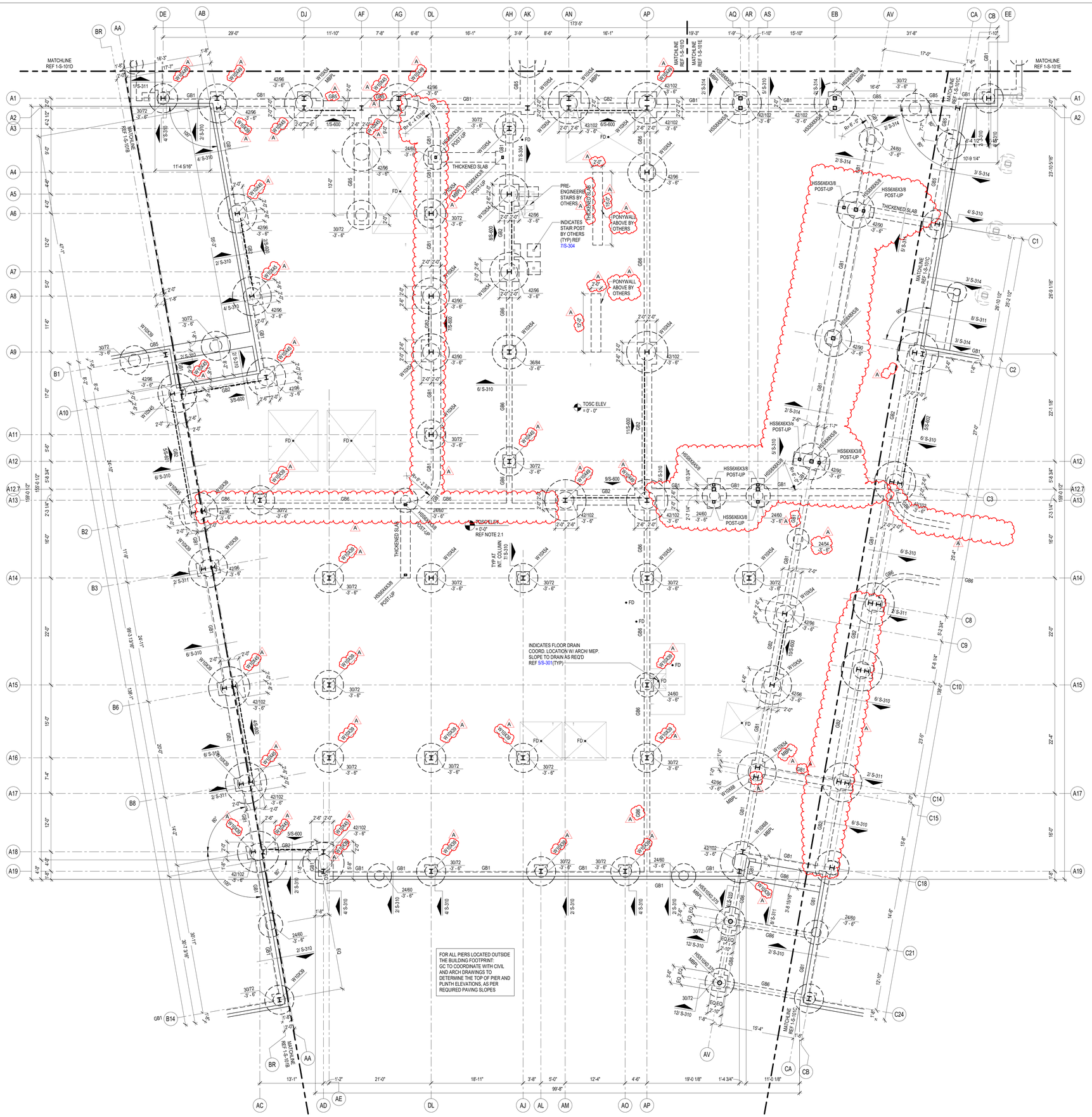

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL). ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.

2.1. 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH EITHER:
#3 AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 32" OC EACH WAY, OR,
#4 AT 15" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 32" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.2. 5 1/2" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#3 AT 10" OC EACH WAY ON 3 1/4" CHAIRS SPACED AT 30" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.3. 6" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#4 AT 14" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 28" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.4. 10" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#4 AT 12" OC EACH WAY, TOP & BOTTOM, ON 3" CHAIRS FOR BOTTOM LAYER, TOP AS REQ'D, SPACED AT 36" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

3.1. TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.

3.2. TOP OF INTERIOR/ EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" U.N.O.
TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" U.N.O.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS.
REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

8. PROVIDE (2) - #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.

9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.

11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.

12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.

13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS.
REFER TO 10/S-301 FOR TRENCH DRAIN DETAIL.
REFER TO 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313, TYPICAL.
AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS / FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND / OR DETAILS SHALL BE LOCATED AS FOLLOWS:
A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS:
INTERMEDIATE PIERS / FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS / FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

18. GC TO COORDINATE THE LOCATION OF ALL CONC CURBS WITH ARCHITECTURAL DRAWINGS. REFER TO 7/S-301 FOR DETAIL, TYPICAL.

19. GC TO COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCHITECTURAL DRAWINGS.

20. [hatch] INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS.
REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
A 3/8" VERTICAL CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

21. [hatch] INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS.
REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
A 3/8" VERTICAL CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS
REFER TO DETAIL 4/S-311
HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY.
THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW.
WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311, TYPICAL.

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS.
GEO-FOAM AND TOPPING SLAB BY MANUFACTURER, REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE / FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS.
PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB.
ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY.
DRILL AND EPOXY 4" INTO BASE / FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

1 FOUNDATION PLAN - AREA A
1/8" = 1'-0"

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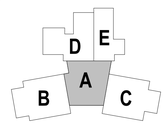

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
128557
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

FOUNDATION PLAN - AREA A

S-101A

Plot Stamp:
10/23/2025 5:25:44 PM

FOUNDATION PLAN - AREA B

S-101B

FOR BLUEBEAM LABELING/DOCR:

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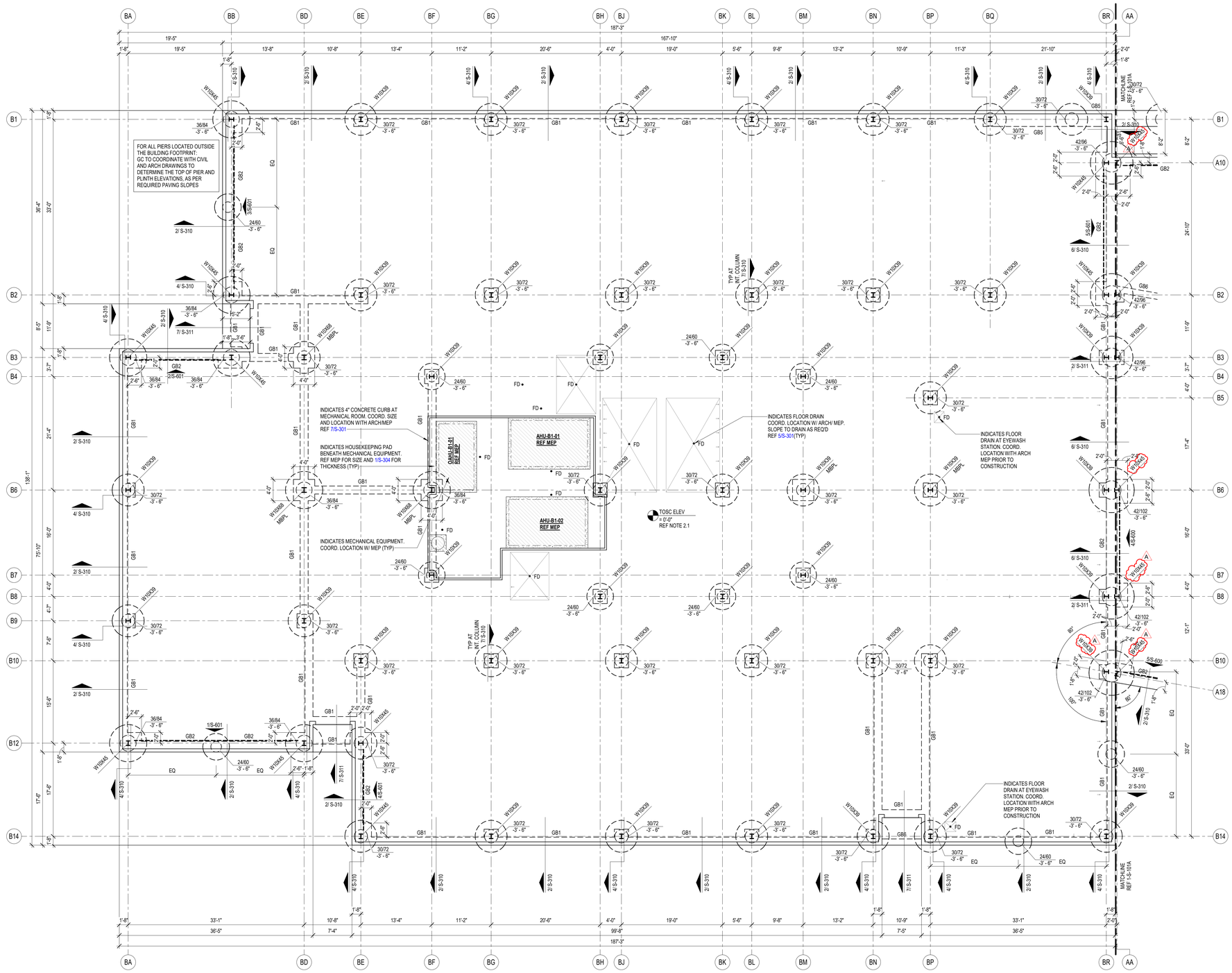

FOUNDATION PLAN NOTES

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2.1. 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH EITHER:
#3 AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 32" OC EACH WAY, OR,
#4 AT 16" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 32" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.2. 5 1/2" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#3 AT 10" OC EACH WAY ON 3 1/4" CHAIRS SPACED AT 30" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.3. 6" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#4 AT 14" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 28" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.4. 10" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#4 AT 12" OC EACH WAY, TOP & BOTTOM, ON 3" CHAIRS FOR BOTTOM LAYER, TOP AS REQ'D, SPACED AT 36" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

3.1. TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.

3.2. TOP OF INTERIOR/ EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" U.N.O.
TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" U.N.O.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS. REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

8. PROVIDE (2) - #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.

9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.

11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.

12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.

13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS.
REFER TO 10/S-301 FOR TRENCH DRAIN DETAIL.
REFER TO 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313, TYPICAL.
AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS / FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND / OR DETAILS SHALL BE LOCATED AS FOLLOWS:
A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS:
INTERMEDIATE PIERS / FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS / FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

18. GC TO COORDINATE THE LOCATION OF ALL CONC CURBS WITH ARCHITECTURAL DRAWINGS. REFER TO 7/S-301 FOR DETAIL, TYPICAL.

19. GC TO COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCHITECTURAL DRAWINGS.

20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
A 3/8" VERTICAL CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

21. INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS.
REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
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22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS REFER TO DETAIL 4/S-311.
HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY.
THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW.
WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311, TYPICAL.

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS.
GEO-FOAM AND TOPPING SLAB BY MANUFACTURER. REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE / FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS.
PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB.
ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY.
DRILL AND EPOXY 4" INTO BASE / FLAT SLAB WITH HILTI HIY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

1 FOUNDATION PLAN - AREA B
1/8" = 1'-0"

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

PBK

ARCHITECT PBK Architects, Inc. PBK.com
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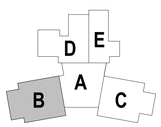
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALUZA INC
T.281-341-0808
LANDSCAPE
EDGELAND
T.713-802-0085
STRUCTURAL
DALLY STRUCTURES, INC
T.713-521-881
MEP/T
LEAP
T.713-540-3300
THEATER+ ACOUSTICS + A/V
T.713-961-8600
FOOD SERVICE
PBK
T.281-356-2223
SPORTS ARCHITECTURE
PBK
T.713-965-0600
BUILDING ENVELOPE
PBK
T.713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
128557
LICENSED
PROFESSIONAL
ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

FOUNDATION PLAN - AREA B

S-101B

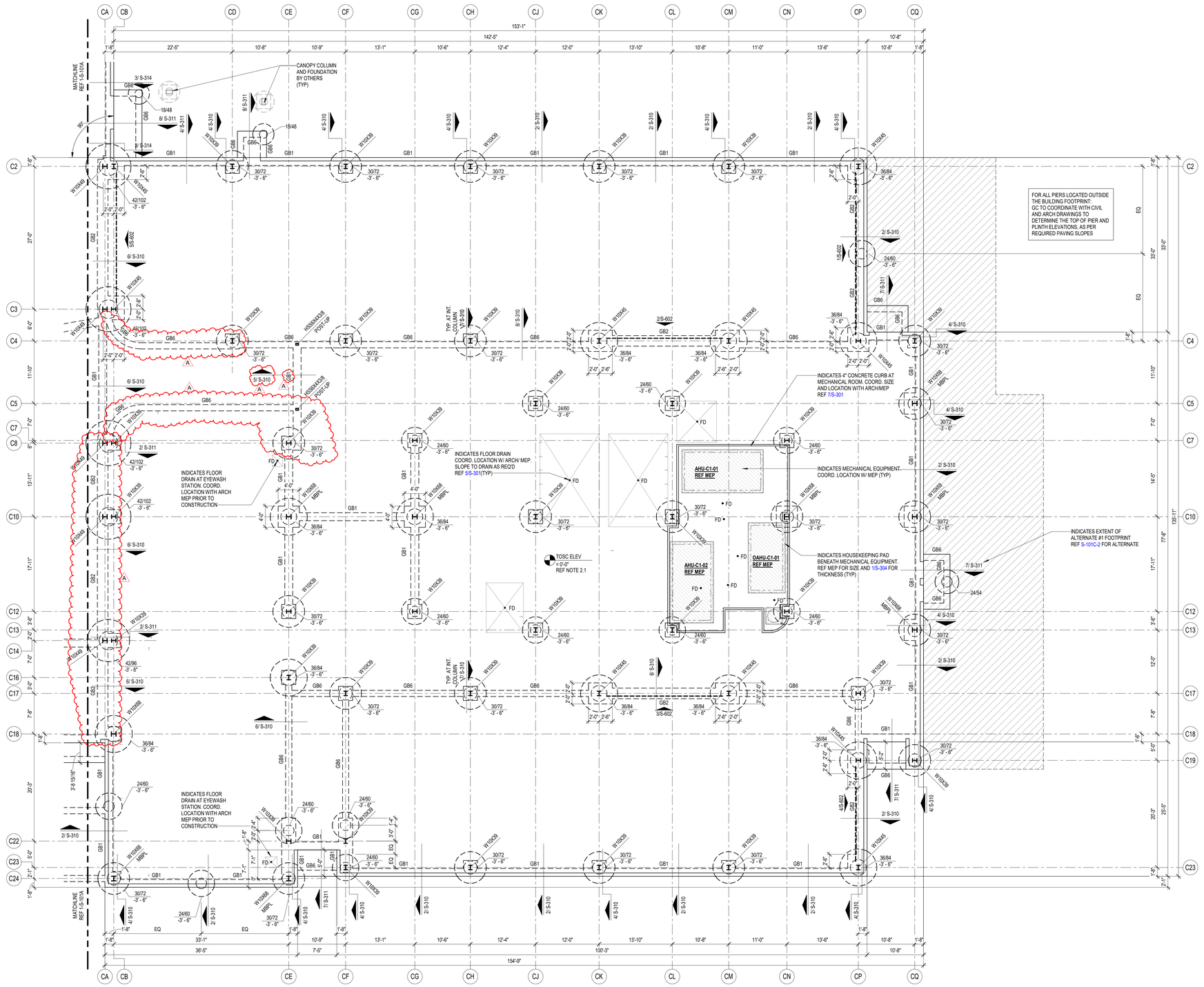
Plot Stamp:
10/23/2025 5:25:47 PM

FOUNDATION PLAN - AREA C

S-101C

FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL



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ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY.
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24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

1 FOUNDATION PLAN - AREA C
1/8" = 1'-0"

Kubala ENGINEERS
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www.kubalaengineers.com
TX. REG. NO. F-23612

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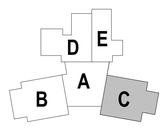
713-961-4571 F
TX Firm: BR 1608
CIVIL
KALUZA, INC
T.281-341-0808
LANDSCAPE ARCHITECT
EDGELAND
T.713-660-0585
STRUCTURAL
DALLY, PHILLIPPS, STEELE, INC
T.713-521-681
MEP/T
LEAP
T.713-840-3300
THEATER + ACOUSTICS + A/V
SHEN
T.210-991-8600
FOOD SERVICE
PBK
T.281-356-2223
SPORTS ARCHITECTURE
PBK
T.713-965-0600
BUILDING ENVELOPE
PBK
T.713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

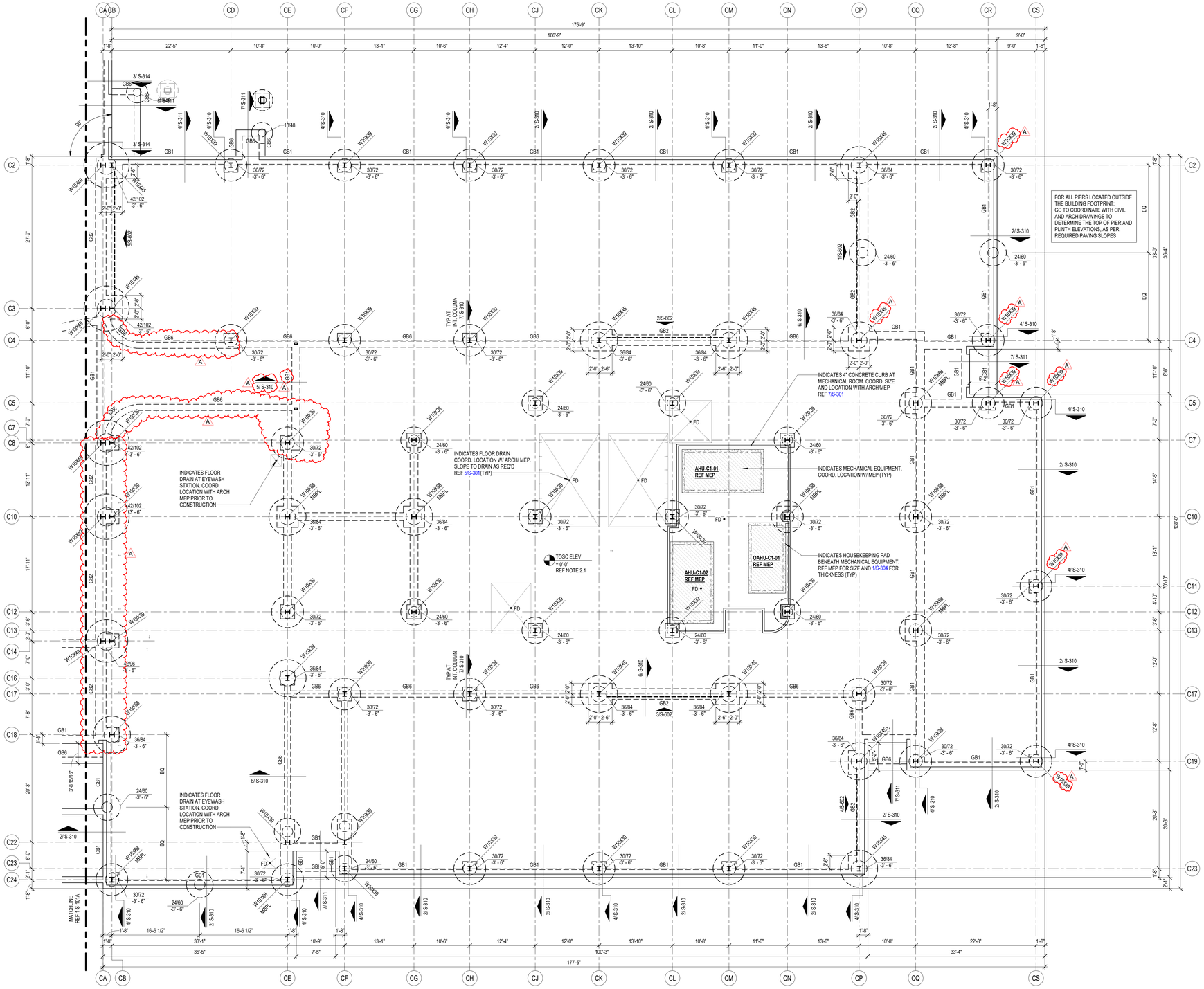
FOUNDATION PLAN - AREA C

S-101C

Plot Stamp:
10/23/2025 5:25:50 PM

FOUNDATION PLAN - AREA C (ALT #1)
S-101C2
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



1 FOUNDATION PLAN - AREA C (ALTERNATE 1)
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL). ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.

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#3 AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 32" OC EACH WAY, OR,
#4 AT 16" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 32" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.2. 5 1/2" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
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12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.

13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS. REFER TO 10/S-301 FOR TRENCH DRAIN DETAIL. REFER TO 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313, TYPICAL. AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS / FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND / OR DETAILS SHALL BE LOCATED AS FOLLOWS:
A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS:
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D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

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20. ▨ INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERTICAL CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

21. ▨ INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERTICAL CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

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24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

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MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
#28557
REGISTERED
PROFESSIONAL
ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

FOUNDATION PLAN - AREA C (ALT #1)

S-101C-2

Kubala ENGINEERS
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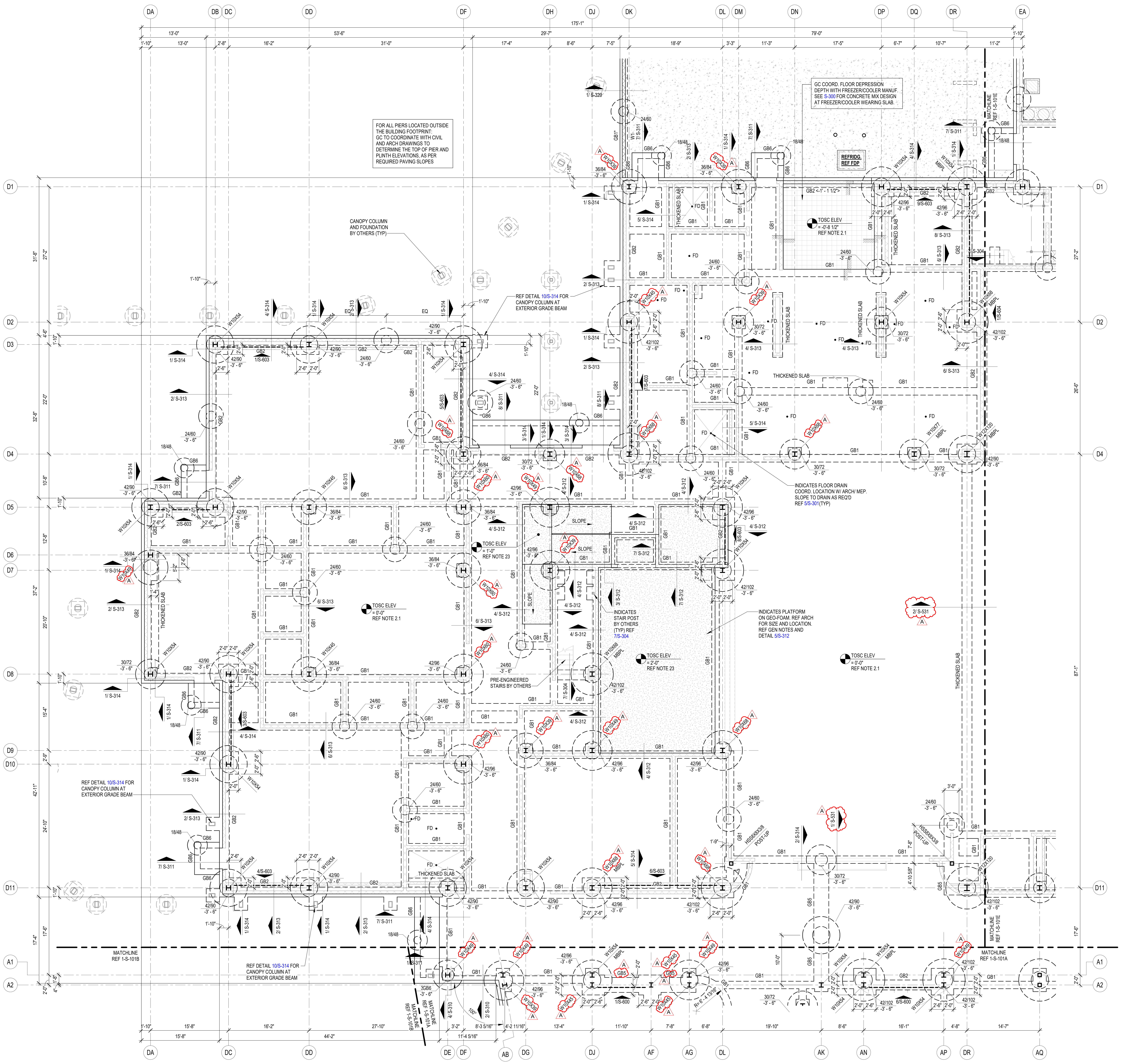
TX. REG. NO. F-23612

Plot Stamp:
10/23/2025 5:25:52 PM

FOUNDATION PLAN - AREA D
S-101D
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



1 FOUNDATION PLAN - AREA D
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL). ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0".
THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.

2.1. 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH EITHER:
#3 AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 30" OC EACH WAY, OR,
#4 AT 16" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 32" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL, REFER TO THE SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.2. 5 1/2" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#3 AT 10" OC EACH WAY ON 3 1/4" CHAIRS SPACED AT 30" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL, REFER TO SOIL REPORT.
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PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL, REFER TO THE SOIL REPORT.
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2.4. 10" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#4 AT 12" OC EACH WAY, TOP & BOTTOM, ON 3" CHAIRS FOR BOTTOM LAYER, TOP AS REQ'D, SPACED AT 36" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL, REFER TO THE SOIL REPORT
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TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" U.N.O.
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TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" U.N.O.
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6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

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HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY.
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MEPT
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WJHW
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FDP
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PBK
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BUILDING ENVELOPE
BEAM
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MIDDLE SCHOOL 8
VOLUME X
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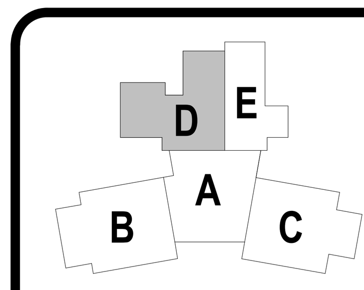
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

FOUNDATION PLAN - AREA D

S-101D

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TX. REG. NO. F-23612

Plot Stamp:
10/23/2025 5:25:57 PM

FOUNDATION PLAN - AREA E

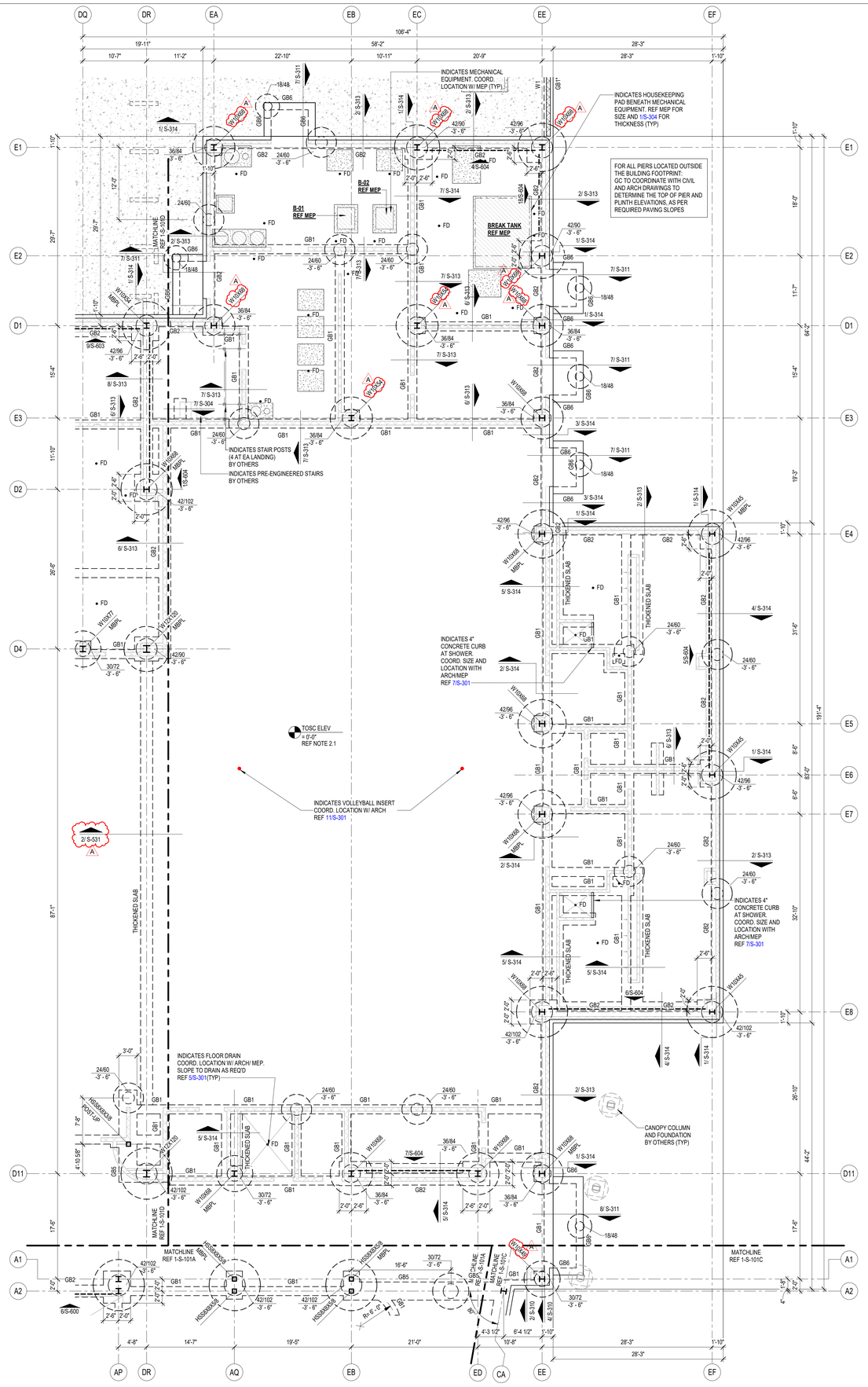
S-101E

FOR BLUEBEAM LABELING/DOCR:

0"

1"

ISSUE FOR PROPOSAL



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1 FOUNDATION PLAN - AREA E
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TX. REG. NO. F-23612

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LEAP
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SHEN
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FOOD SERVICE
RGA
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SPORTS ARCHITECTURE
PBK
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BUILDING ENVELOPE
PBK
T.713-965-0608

MIDDLE SCHOOL 8

VOLUME X
CSP# X

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
#128554
LICENSED PROFESSIONAL ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

FOUNDATION PLAN - AREA E

S-101E

Plot Stamp:
10/23/2025 5:26:00 PM

ISSUE FOR PROPOSAL

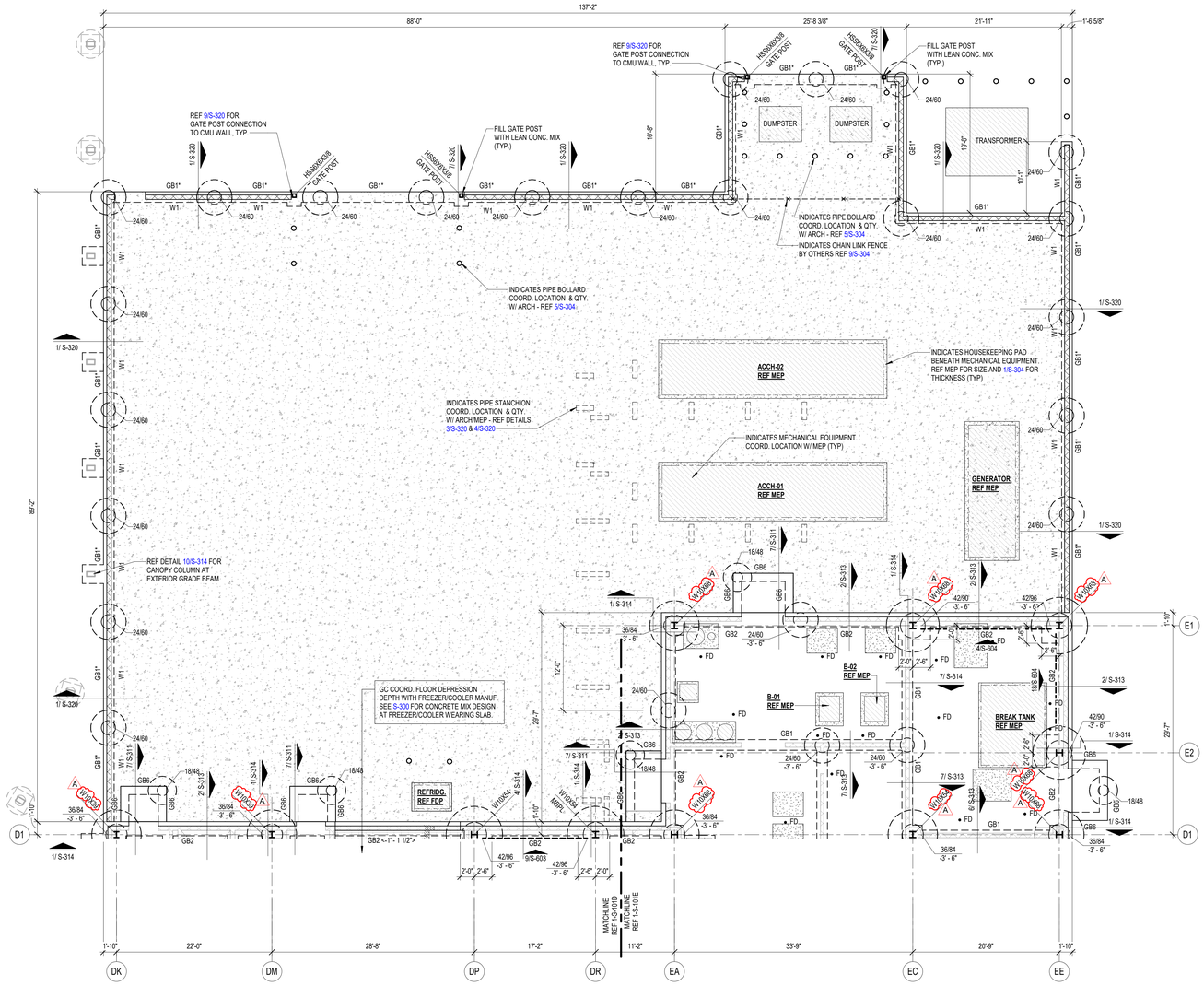
FOUNDATION PLAN - SERVICE YARD

S-101F

FOR BLUEBEAM LABELING/OCR:

0"

1"



FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL). ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.

2.1. 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH EITHER:
#3 AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 32" OC EACH WAY, OR,
#4 AT 16" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 32" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.2. 5 1/2" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#3 AT 10" OC EACH WAY ON 3 1/4" CHAIRS SPACED AT 30" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.3. 6" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#4 AT 14" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 28" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT.
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

2.4. 10" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH:
#4 AT 12" OC EACH WAY, TOP & BOTTOM, ON 3" CHAIRS FOR BOTTOM LAYER, TOP AS REQ'D, SPACED AT 36" OC EACH WAY.
PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO THE SOIL REPORT
FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.

3.1. TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.

3.2. TOP OF INTERIOR/ EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" U.N.O.
TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" U.N.O.
TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" U.N.O.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS. REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

8. PROVIDE (2) - #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.

9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.

11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.

12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.

13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS. REFER TO 10/S-301 FOR TRENCH DRAIN DETAIL. REFER TO 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313, TYPICAL. AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS / FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND / OR DETAILS SHALL BE LOCATED AS FOLLOWS:
A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS / FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS / FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

18. GC TO COORDINATE THE LOCATION OF ALL CONC CURBS WITH ARCHITECTURAL DRAWINGS. REFER TO 7/S-301 FOR DETAIL, TYPICAL.

19. GC TO COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCHITECTURAL DRAWINGS.

20. [xxxx] INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
A 3/8" VERTICAL CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

21. [xxxx] INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS.
REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
A 3/8" VERTICAL CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS REFER TO DETAIL 4/S-311
HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY.
THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW.
WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311, TYPICAL.

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS.
GEO-FOAM AND TOPPING SLAB BY MANUFACTURER, REF ARCH AND GENERAL NOTES:
GC NOTE: ORIGINAL BASE / FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS.
PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB.
ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY.
DRILL AND EPOXY 4" INTO BASE / FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

1 FOUNDATION PLAN - SERVICE YARD
1/8" = 1'-0"

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MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
D E A B C
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
129553
LICENSED
PROFESSIONAL
ENGINEER
10/13/2025
Kubala Engineers
F-23612

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LAMAR CONSOLIDATED ISD

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FOUNDATION PLAN - SERVICE YARD

S-101F

Plot Stamp:
10/23/2025 5:26:02 PM

ISSUE FOR PROPOSAL

COMPOSITE MEZZANINE/ LOW ROOF FRAMING PLAN

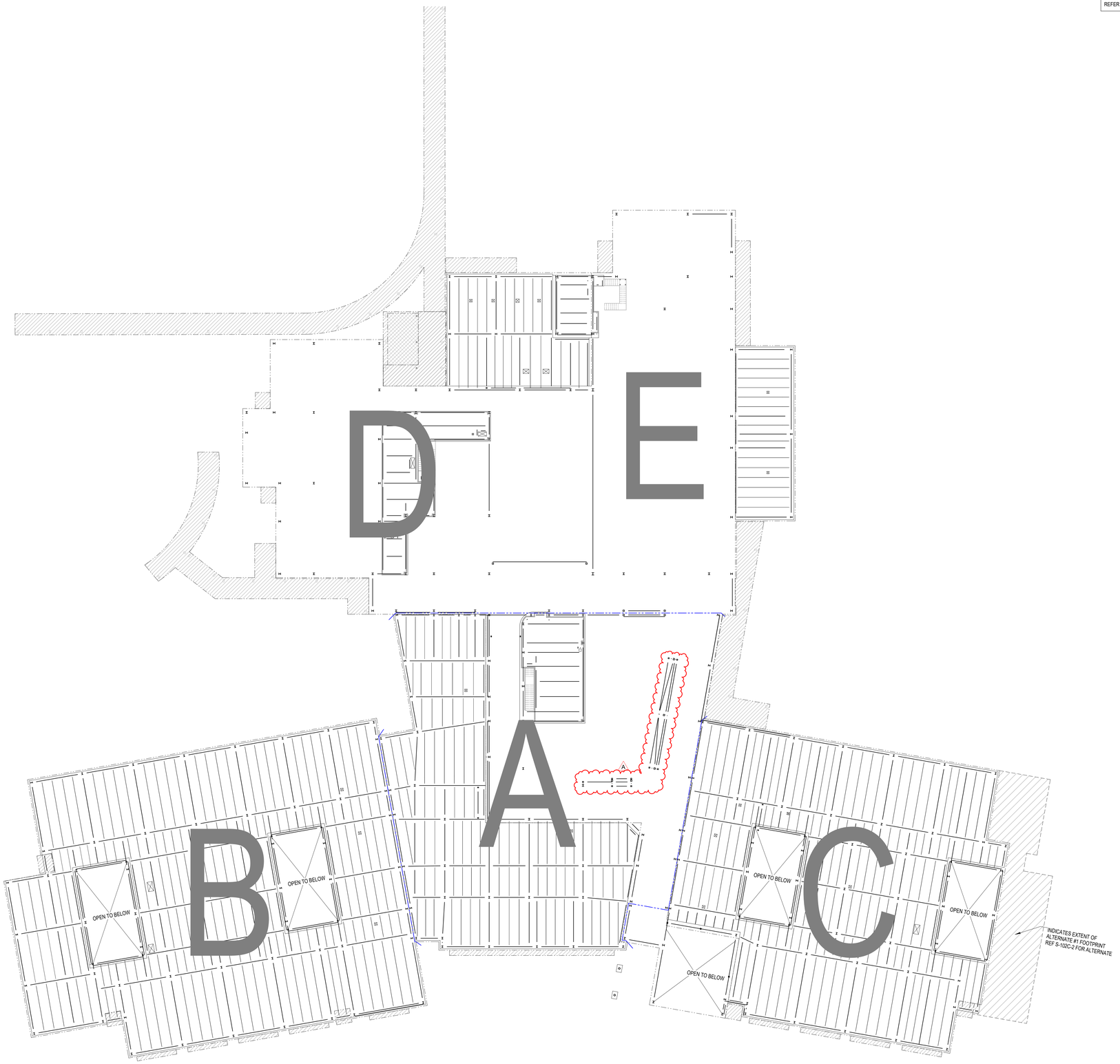
S-102

FOR BLUEBEAM LABELING/OCR:

0"
1"

COMPOSITE PLAN NOTE:

REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE MEZZANINE/ LOW ROOF
1" = 20'-0"

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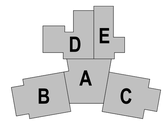
MIDDLE SCHOOL 8
VOLUME: X
CSP#: X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

Kubala Engineers
F-23612
10/13/2025

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COMPOSITE MEZZANINE/ LOW ROOF FRAMING PLAN

S-102

Plot Stamp:
10/23/2025 5:26:07 PM

ISSUE FOR PROPOSAL

COMPOSITE MEZZANINE/ LOW ROOF FRAMING PLAN (ALT #1)

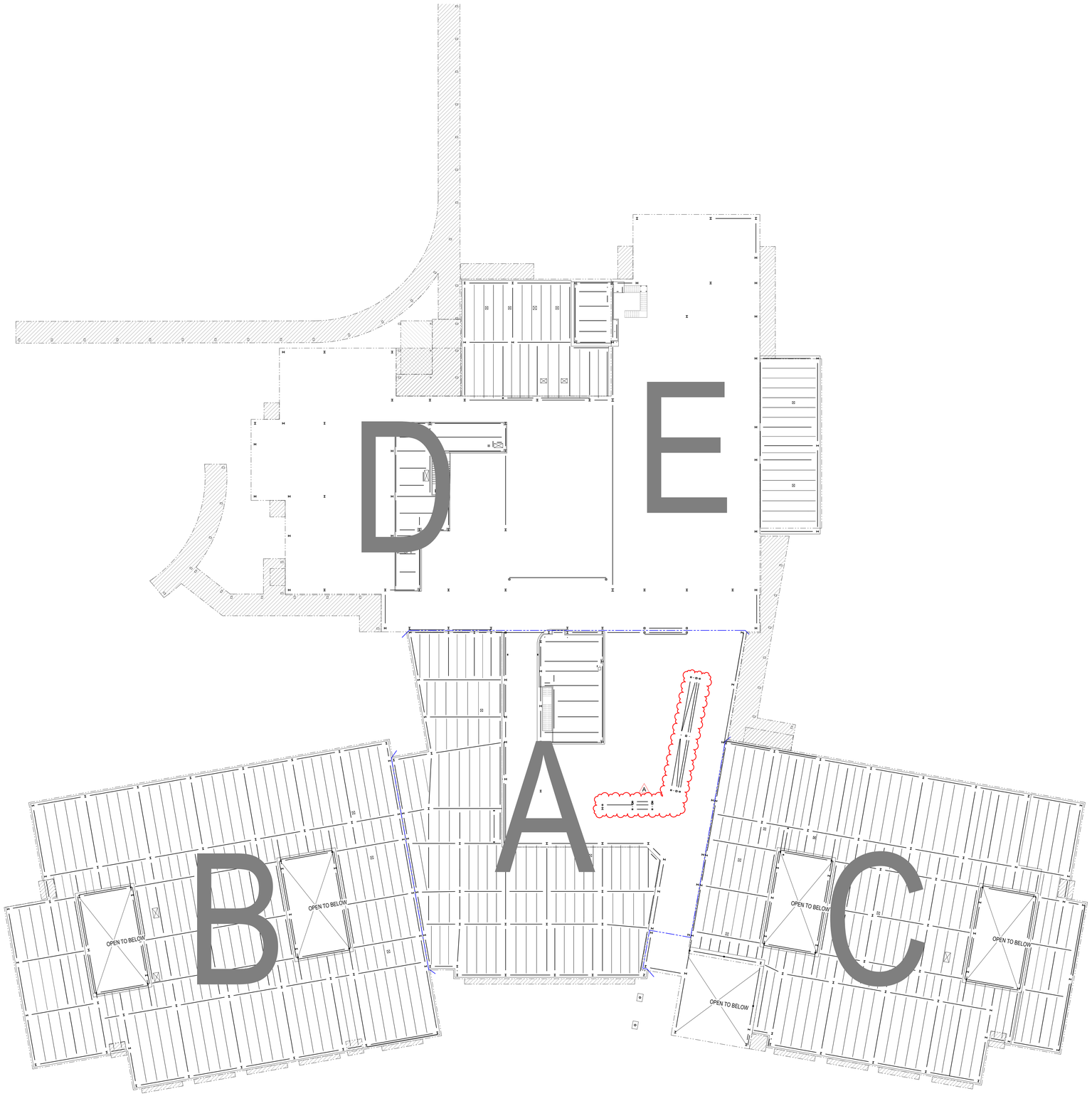
S-102-2

FOR BLUEBEAM LABELING/OCR:

0"
1"

COMPOSITE PLAN NOTE:

REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE MEZZANINE/ LOW ROOF (ALTERNATE 1)
1" = 20'-0"

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ISSUE FOR PROPOSAL

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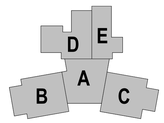

KEY PLAN
NORTH: PLAN TRUE

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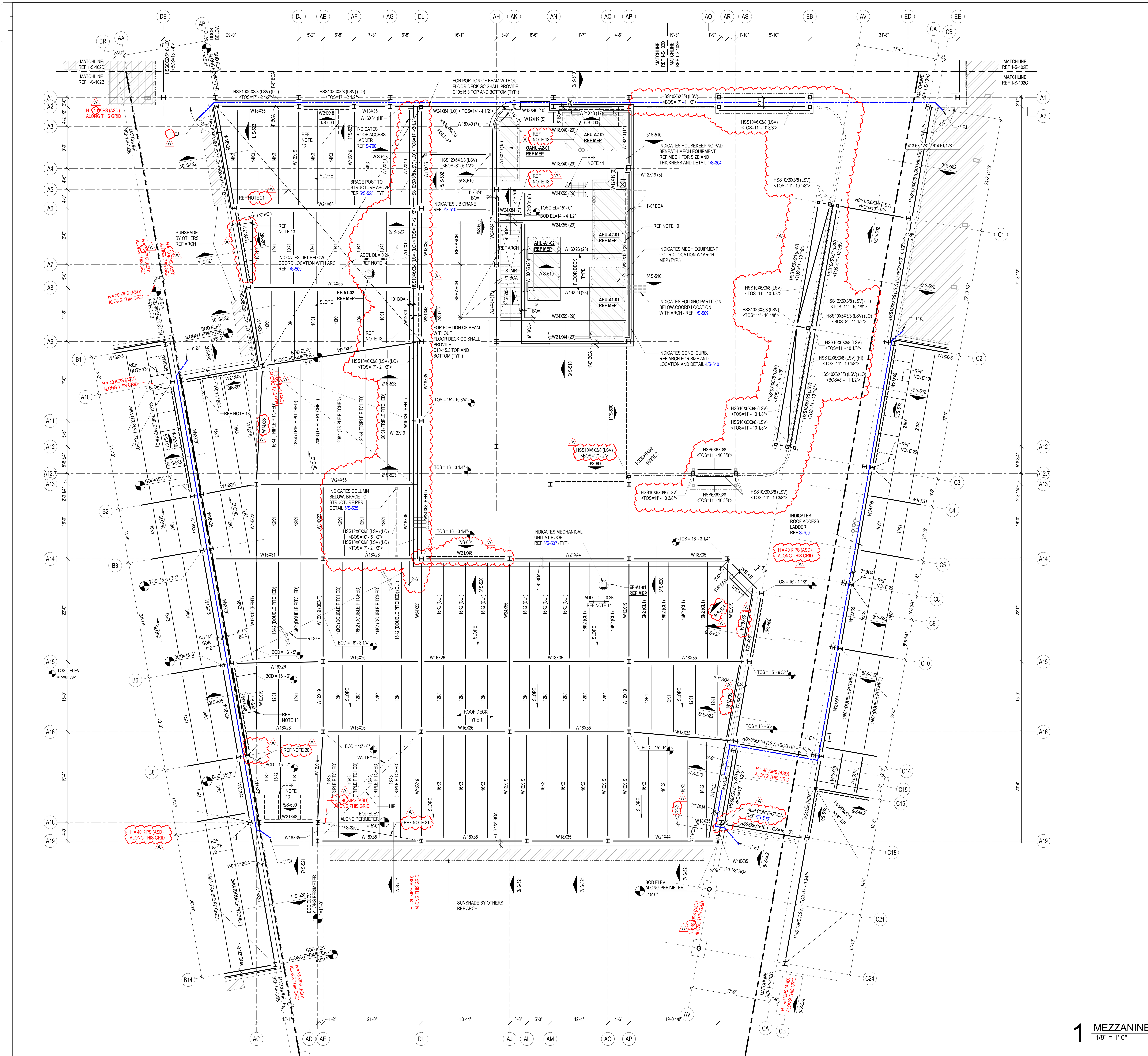
COMPOSITE MEZZANINE/ LOW ROOF FRAMING PLAN (ALT #1)

S-102-2

Plot Stamp:
10/23/2025 5:26:12 PM

FOR BLUEBEAM LABELING/OCR:
S-102A
MEZZANINE/ LOW ROOF FRAMING PLAN - AREA A

ISSUE FOR PROPOSAL



1 MEZZANINE/ LOW ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505 TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. [hatch symbol] - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-511 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE: BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. [line symbol] INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. [symbol] - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

NOTE:
REFER TO SHEET S-102B FOR PLAN NOTES NOT SHOWN HERE.

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STRUCTURAL — DALLY + ASSOCIATES, INC T 713-337-8881
MEPT — LEAF T 713-940-3300
THEATER + ACOUSTICS + A/V — WJHW T 210-561-9800
FOOD SERVICE — FDP T 281-350-2323
SPORTS ARCHITECTURE — PBK T 713-965-0608
BUILDING ENVELOPE — BEAM T 713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
D E A B C
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
128557
LICENSED PROFESSIONAL ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

MEZZANINE/ LOW ROOF FRAMING PLAN - AREA A

S-102A

Plot Stamp:
10/23/2025 5:26:16 PM

0"
1"

LOW ROOF FRAMING PLAN - AREA B
S-102B
FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 2500 POUNDS LOCATED 1'-3" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - XXXX POUNDS LOCATED X'-X" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X¼ THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADDITION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ———— - - - - - - INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADDL DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8") END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9. U.N.O.

METAL ROOF DECK TYPES

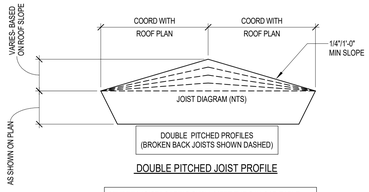
ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
1.5B 22 GA (GALV.) (G90) MTL DECK.

NOTES:

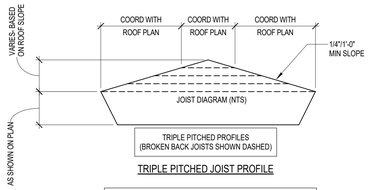
1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.

A 3 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

1 LOW ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"

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TX Firm: BR 1608

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KALTEX, INC
T.281-341-0808
LANDSCAPE
EDGELAND
T.713-660-0585
STRUCTURAL
DALLY + ASSOCIATES, INC
T.713-337-4881
MEP/T
LEAP
T.713-540-3300
THEATER + ACOUSTICS + A/V
SHEN
T.713-581-8600
FOOD SERVICE
PBK
T.281-356-2223
SPORTS ARCHITECTURE
PBK
T.713-965-0600
BUILDING ENVELOPE
PBK
T.713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
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NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
23557
LICENSED PROFESSIONAL ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD
DATE 2025/10/13
PROJECT NUMBER 240541
DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

LOW ROOF FRAMING PLAN - AREA B

S-102B

Plot Stamp:
10/23/2025 5:26:21 PM

ISSUE FOR PROPOSAL

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 2500 POUNDS LOCATED 1'-3" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - XXXX POUNDS LOCATED X'-X" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE: BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
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9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
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11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. —— – – —— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

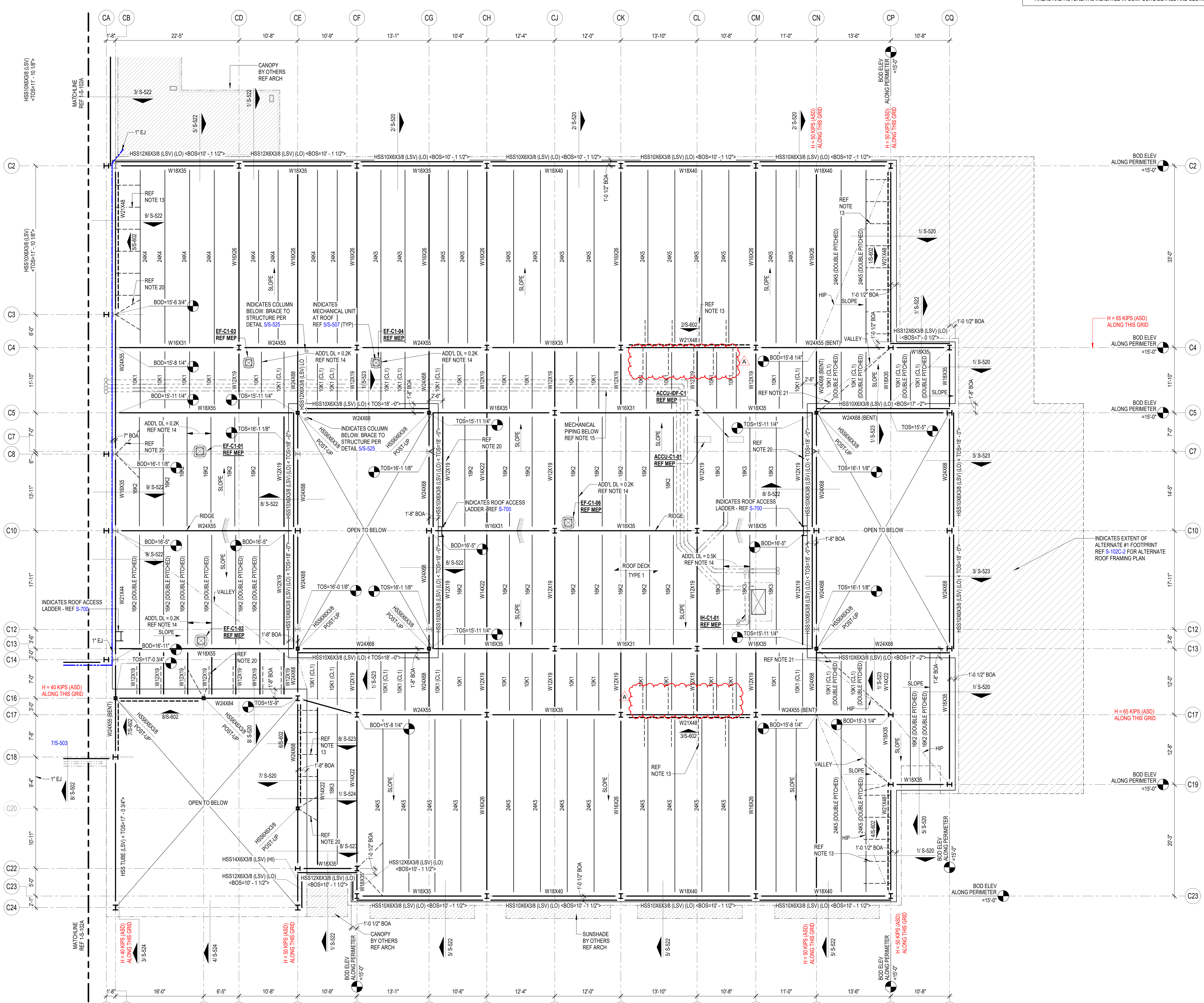
METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

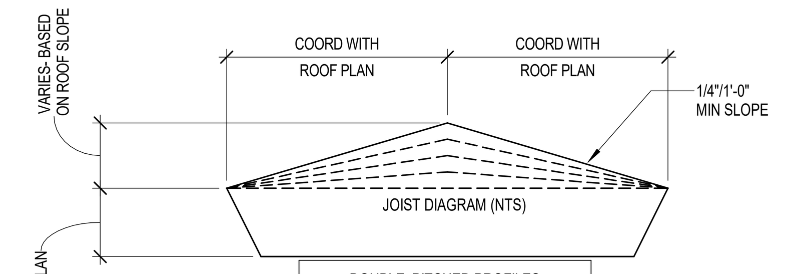
ROOF DECK TYPE 2:
1.5B 22 GA (GALV.) (G90) MTL DECK.

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
3. (A) REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.



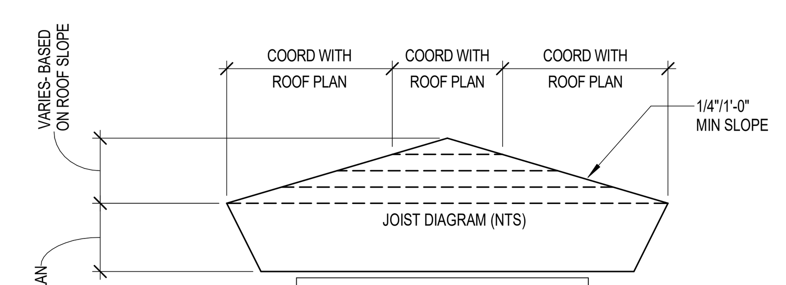
1 LOW ROOF FRAMING PLAN - AREA C
1/8" = 1'-0"



DOUBLE PITCHED PROFILES
(BROKEN BACK JOISTS SHOWN DASHED)

DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED PROFILES
(BROKEN BACK JOISTS SHOWN DASHED)

TRIPLE PITCHED JOIST PROFILE

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713-961-4571 F
TX Firm: BR 1608
CIVIL KALUZA INC T 281-341-0808
LANDSCAPE EDGELAND T 713-460-0988
STRUCTURAL DALLY + ASSOCIATES, INC T 713-337-8881
MEPT LEAF T 713-940-3300
THEATER + ACOUSTICS + A/V WJHW T 210-561-9800
FOOD SERVICE FDP T 281-350-2323
SPORTS ARCHITECTURE PBK T 713-965-0608
BUILDING ENVELOPE BEAM T 713-965-0608

MIDDLE SCHOOL 8
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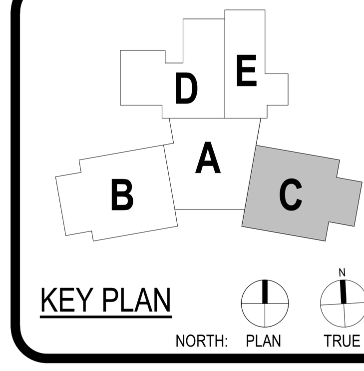
LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN

STATE OF TEXAS
MARIA SHARIFI
128557
LICENSED PROFESSIONAL ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

LOW ROOF FRAMING PLAN - AREA C

S-102C

0"
1"

LOW ROOF FRAMING PLAN - AREA C (ALT #1)
S-102C-2
FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 2500 POUNDS LOCATED 1'-3" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - XXXX POUNDS LOCATED X'-X" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X¼ THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADDITION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ———— - - - - INDICATES PIPING RUN. REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADDL DL= 2.0 K (PERP.) OR DL= 0.5 K/LF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8") END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV.) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9. U.N.O.

METAL ROOF DECK TYPES

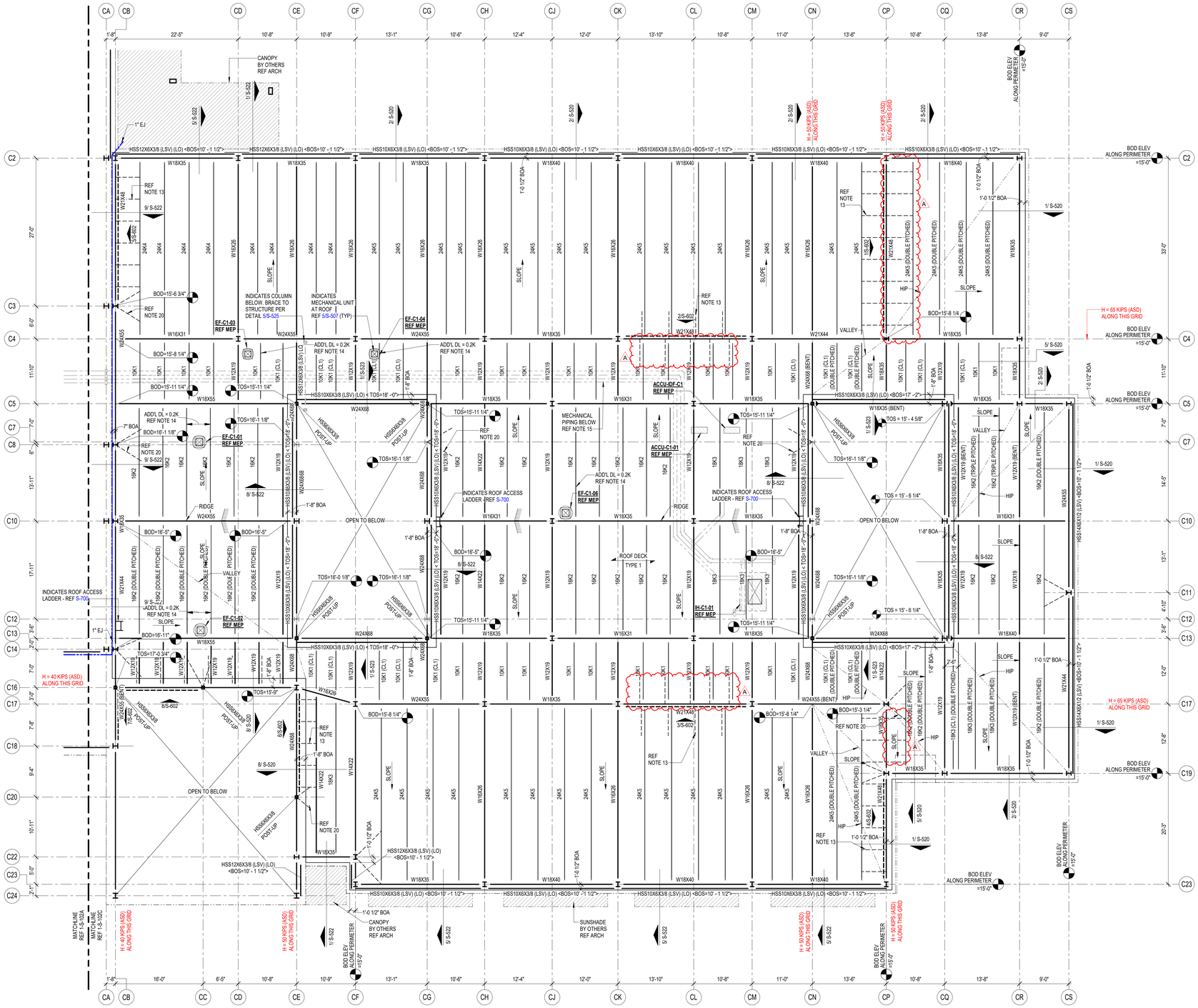
ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
1.5B 22 GA (GALV.) (G90) MTL DECK.

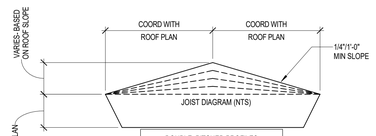
NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.

A 3 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

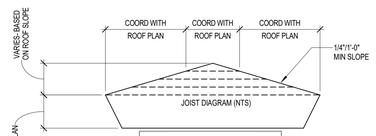


1 LOW ROOF FRAMING PLAN - AREA C (ALTERNATE 1)
1/8" = 1'-0"



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

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STRUCTURAL
DALLY + ASSOCIATES, INC
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MEP/T
LEAP
T.713-540-3300
THEATER + ACOUSTICS + A/V
SHEN
T.713-961-9800
FOOD SERVICE
TFSD
T.281-356-2223
SPORTS ARCHITECTURE
PBK
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BUILDING ENVELOPE
PBK
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MIDDLE SCHOOL 8
VOLUME X
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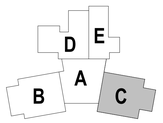
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
125557
REGISTERED
PROFESSIONAL
ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD
DATE 2025/10/13
PROJECT NUMBER 240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

LOW ROOF FRAMING PLAN - AREA C (ALT #1)

S-102C-2

Plot Stamp:
10/23/2025 5:26:29 PM

FOR BLUEBEAM LABELING/OCR:
S-102D
MEZZANINE/ LOW ROOF FRAMING PLAN - AREA D

ISSUE FOR PROPOSAL

1 MEZZANINE/LOW ROOF FRAMING PLAN - AREA D
1/8" = 1'-0"

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505 TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505.
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-511 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
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12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
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24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

NOTE:

REFER TO SHEET S-102B FOR PLAN NOTES NOT SHOWN HERE.

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TX. REG. NO. F-23612

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STRUCTURAL
DALLY + ASSOCIATES, INC
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MEPT
LEAF
T 713-940-3300
THEATER + ACOUSTICS + A/V
WJHW
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FOOD SERVICE
FDP
T 281-350-2323
SPORTS ARCHITECTURE
PBK
T 713-965-0608
BUILDING ENVELOPE
BEAM
T 713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X
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ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
D E A B C
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
128557
LICENSED PROFESSIONAL ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
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DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

MEZZANINE/ LOW ROOF FRAMING PLAN - AREA D

S-102D

Plot Stamp:
10/23/2025 5:26:30 PM

LOW ROOF FRAMING PLAN - AREA E

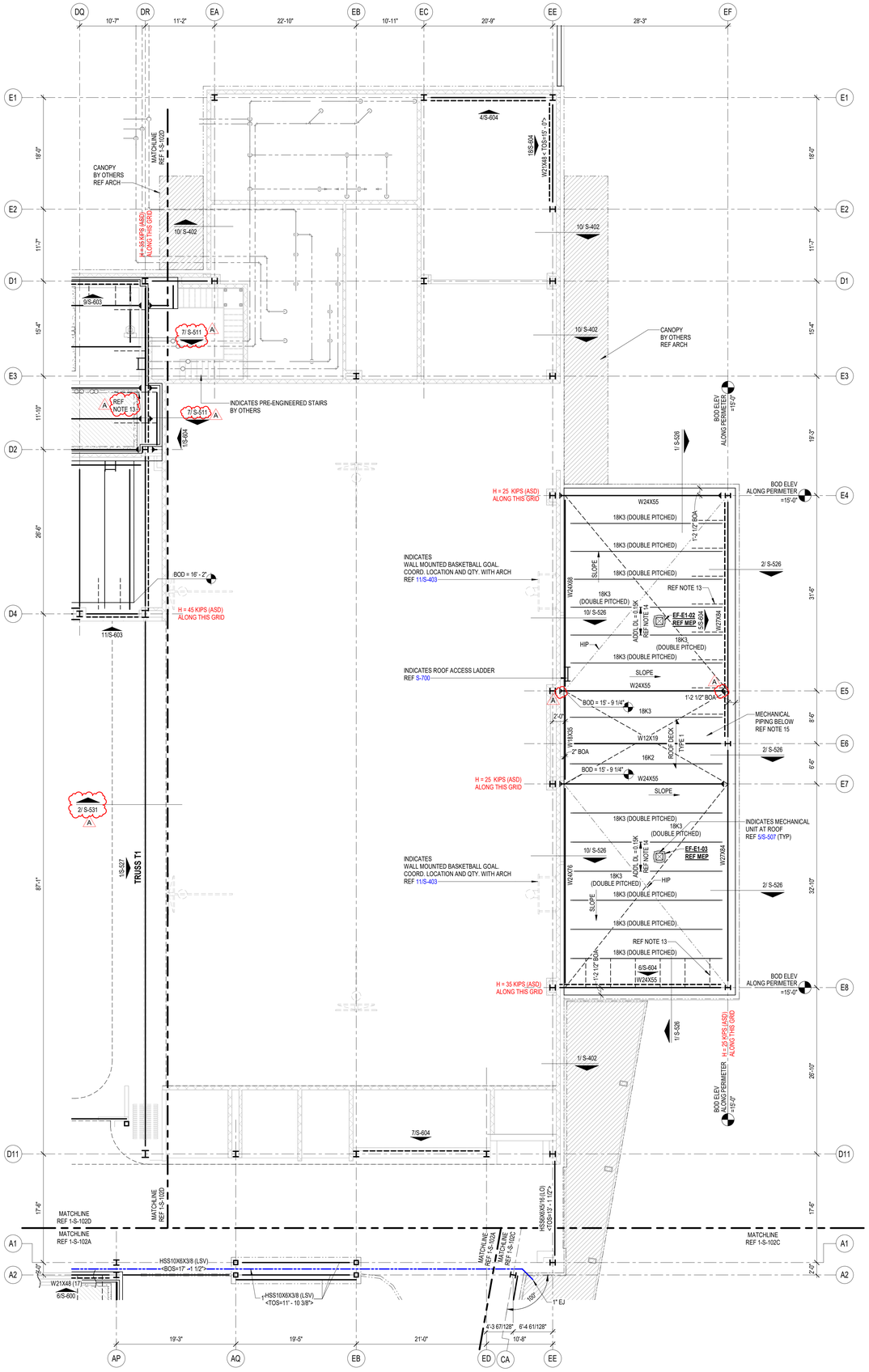
S-102E

FOR BLUEBEAM LABELING/DOCR:

0"

1"

ISSUE FOR PROPOSAL



GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 2500 POUNDS LOCATED 1'-3" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - XXXX POUNDS LOCATED X'-X" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX.X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX.X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADDL DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

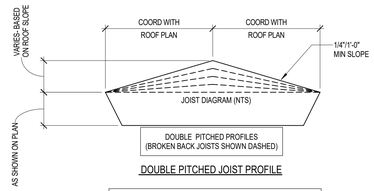
ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
1.5B 22 GA (GALV.) (G90) MTL DECK.

NOTES:

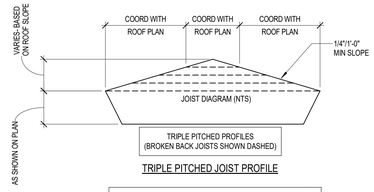
1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.

A 3 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

1 LOW ROOF FRAMING PLAN - AREA E
1/8" = 1'-0"

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www.kubalaengineers.com
TX. REG. NO. F-23612

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EDGELAND
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DALLY + PHILLIPS, INC
T.713-521-881

MEP/T
LEAP
T.713-840-3300

THEATER + ACOUSTICS + A/V
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T.713-961-9800

FOOD SERVICE
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T.281-356-2223

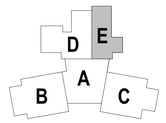
SPORTS ARCHITECTURE
PBK
T.713-965-0600

BUILDING ENVELOPE
PBK
T.713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
128551
LICENSED
PROFESSIONAL
ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

LOW ROOF FRAMING PLAN - AREA E

S-102E

Plot Stamp:
10/23/2025 5:26:33 PM

ROOF FRAMING PLAN - AREA A

S-103A

FOR BLUEBEAM LABELING/DOOR:

ISSUE FOR PROPOSAL

1 ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

NOTE:

REFER TO SHEET S-102B FOR PLAN NOTES NOT SHOWN HERE.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
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COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

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FLOOR DECK TYPE 1:
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NOTES:

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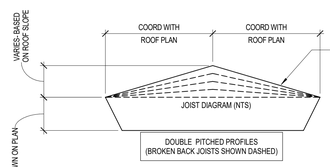

DOUBLE PITCHED PROFILES (BROKEN BACK JOISTS SHOWN DASHED)

DOUBLE PITCHED JOIST PROFILE

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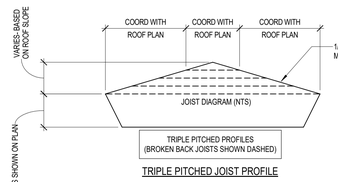

TRIPLE PITCHED PROFILES (BROKEN BACK JOISTS SHOWN DASHED)

TRIPLE PITCHED JOIST PROFILE

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STRUCTURAL
DALLY + ASSOCIATES, INC
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MEP/T
LEAP
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THEATER + ACOUSTICS + AV
T.713-961-8600
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TBD
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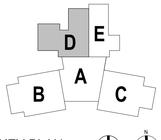
PBK
T.713-965-0600
BUILDING ENVELOPE
TBD
T.713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
128557
LICENSED PROFESSIONAL ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

ROOF FRAMING PLAN - AREA A

S-103A

Plot Stamp:
10/23/2025 5:26:37 PM

ISSUE FOR PROPOSAL

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 2500 POUNDS LOCATED 1'-3" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - XXXX POUNDS LOCATED X'-X" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS

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1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. —— – – —— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

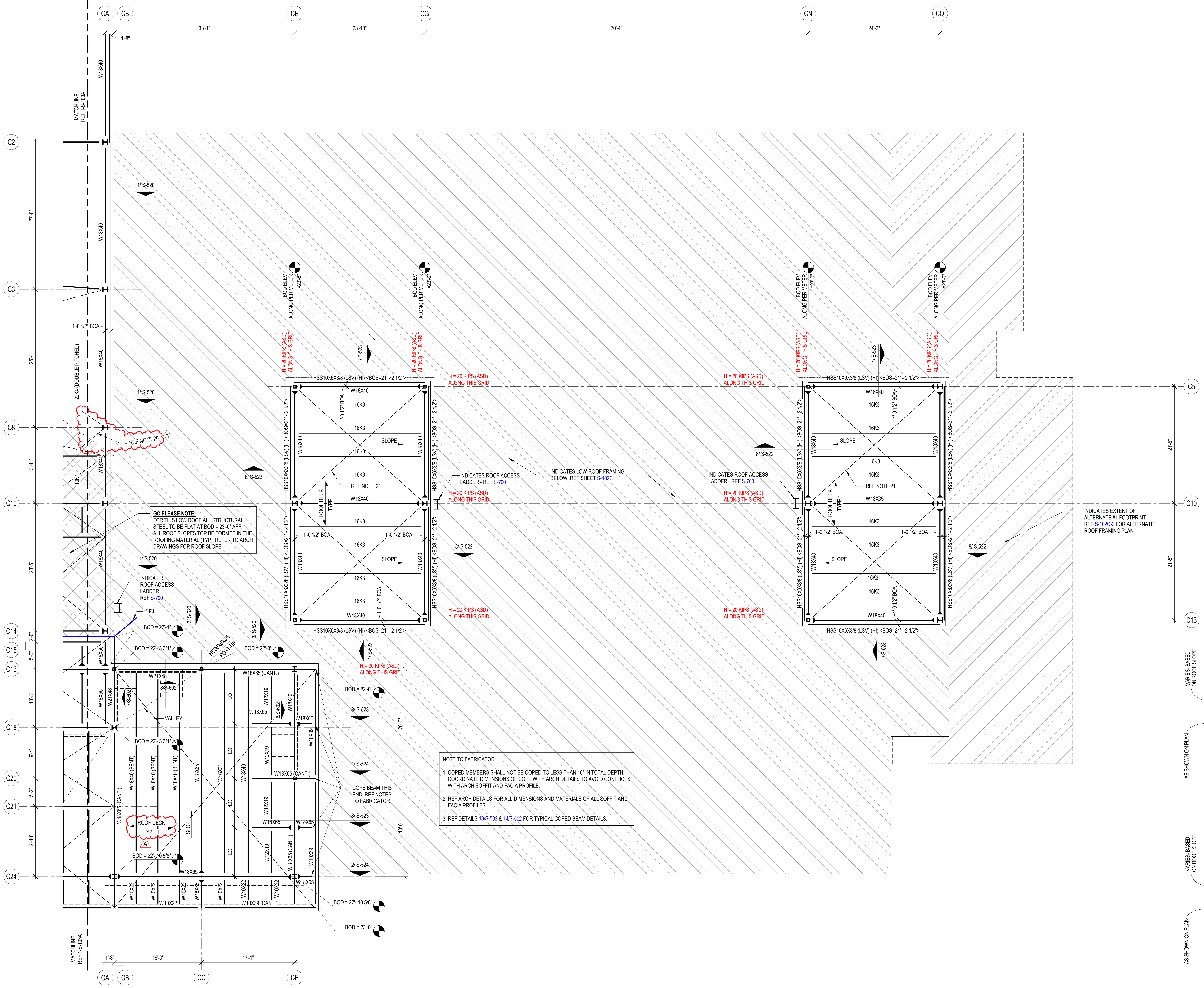
METAL ROOF DECK TYPES

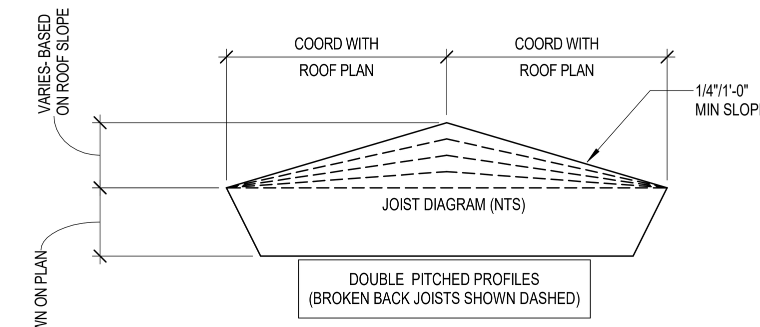
ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
1.5B 22 GA (GALV.) (G90) MTL DECK.

NOTES:

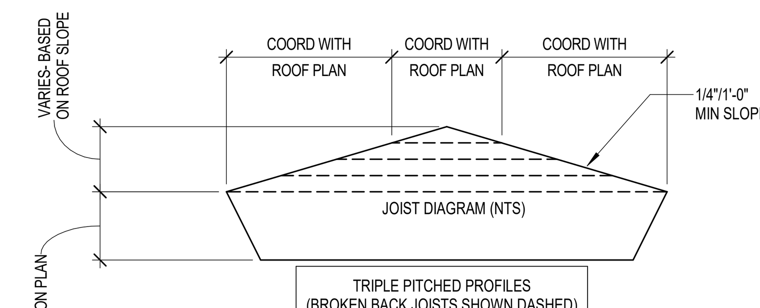
1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
3. (A) REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.





DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

1 CLERESTORY ROOF FRAMING PLAN - AREA C
1/8" = 1'-0"

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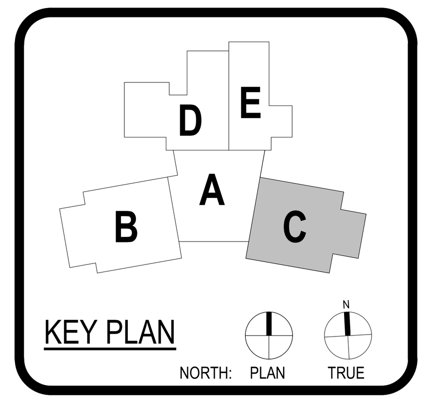
713-961-4571 F
TX Firm: BR 1608
CIVIL KALUZA INC T 281-341-0808
LANDSCAPE EDGELAND T 713-460-0988
STRUCTURAL DALLY + ASSOCIATES, INC T 713-337-8881
MEPT LEAF T 713-940-3300
THEATER + ACOUSTICS + A/V WJHW T 210-561-9800
FOOD SERVICE FDP T 281-350-2323
SPORTS ARCHITECTURE PBK T 713-965-0608
BUILDING ENVELOPE BEAM T 713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



STATE OF TEXAS
MARIA SHARIFI
128557
LICENSED PROFESSIONAL ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

CLERESTORY ROOF FRAMING PLAN - AREA C

S-103C

Plot Stamp:
10/23/2025 5:26:39 PM

ISSUE FOR PROPOSAL

ROOF FRAMING PLAN - AREA D

S-103D

FOR BLUEBEAM LABELING/OCR:

0"
1"

NOTE:

REFER TO SHEET S-102B FOR PLAN NOTES NOT SHOWN HERE.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
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24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV.) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

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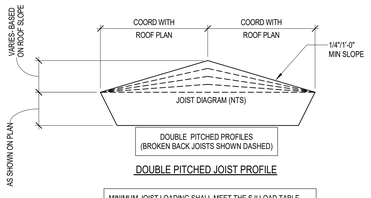
NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.

A 3 1 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.



DOUBLE PITCHED JOIST PROFILE

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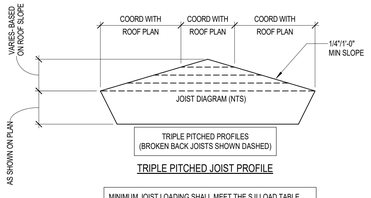

TRIPLE PITCHED JOIST PROFILE

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1 ROOF FRAMING PLAN - AREA D
1/8" = 1'-0"

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TX. REG. NO. F-23612

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713-961-4571 F
TX Firm: BR 1608

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LEAP
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FOOD SERVICE
TRIMARK
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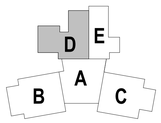
SPORTS ARCHITECTURE
PBK
T.713-965-0600
BUILDING ENVELOPE
PBK
T.713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
129557
LICENSED
PROFESSIONAL
ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD
DATE 2025/10/13
PROJECT NUMBER 240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

ROOF FRAMING PLAN - AREA D

S-103D

Plot Stamp:
10/23/2025 5:26:42 PM

ISSUE FOR PROPOSAL

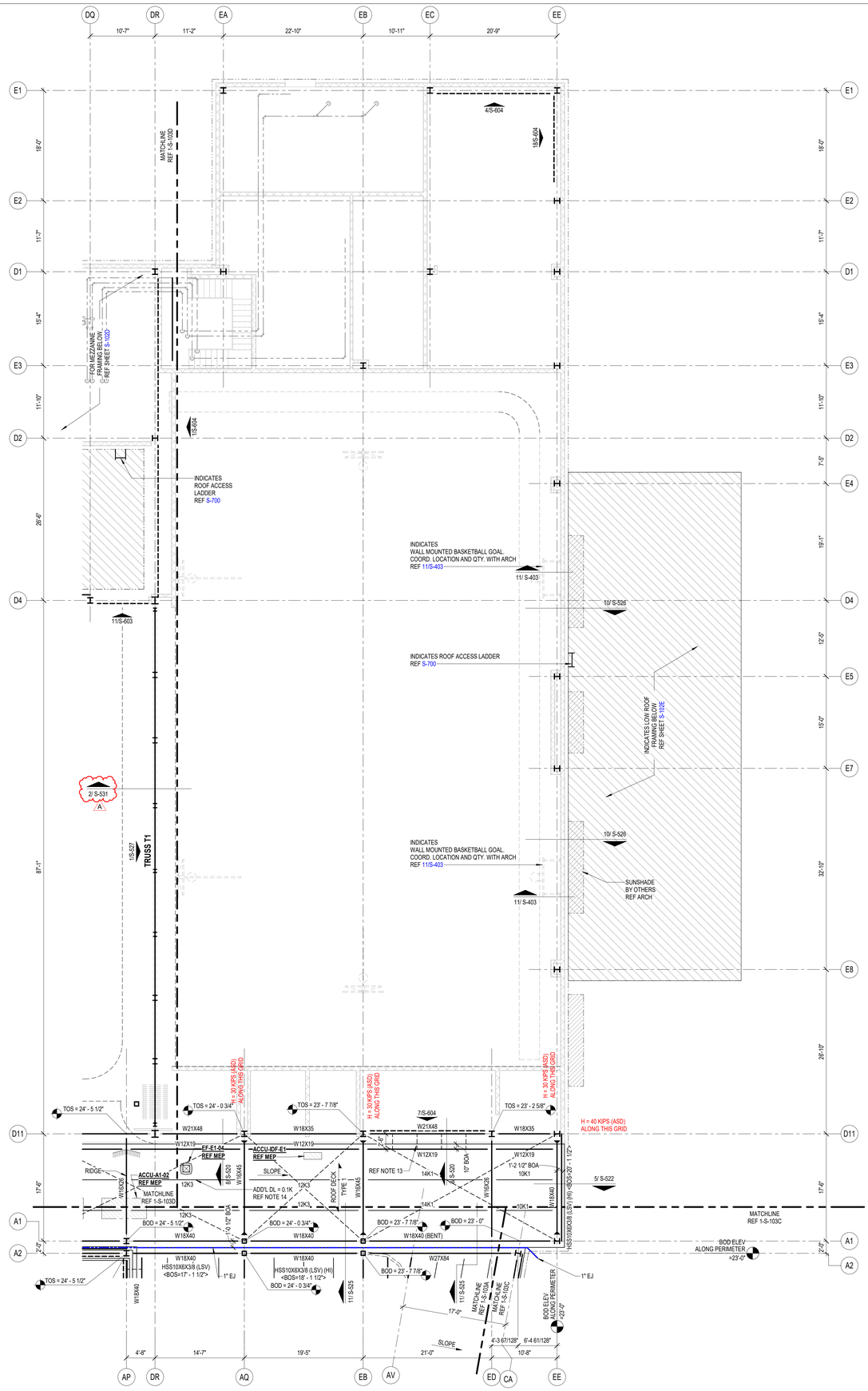
ROOF FRAMING PLAN - AREA E

S-103E

FOR BLUEBEAM LABELING/DOCR:

0"

1"



NOTE:

REFER TO SHEET S-102B FOR PLAN NOTES NOT SHOWN HERE.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
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23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8") END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS.UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV.) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

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ROOF DECK TYPE 1:
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ROOF DECK TYPE 2:
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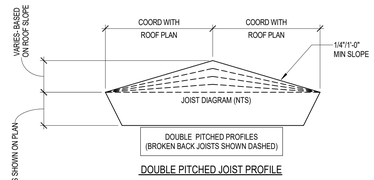
NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.

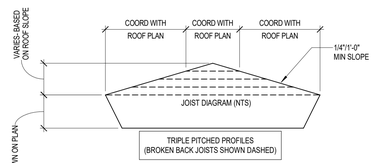
A 3 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.



DOUBLE PITCHED PROFILES
(BROKEN BACK JOISTS SHOWN DASHED)

DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED PROFILES
(BROKEN BACK JOISTS SHOWN DASHED)

TRIPLE PITCHED JOIST PROFILE

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1 ROOF FRAMING PLAN - AREA E
1/8" = 1'-0"

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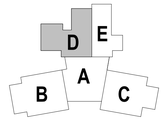
MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

ROOF FRAMING PLAN - AREA E

S-103E

Plot Stamp:
10/23/2025 5:26:44 PM

HIGH ROOF FRAMING PLAN - AREA A

S-104A

FOR BLUEBEAM LABELING/DOOR:

0"

1"

ISSUE FOR PROPOSAL

NOTE:

REFER TO SHEET S-102B FOR PLAN NOTES NOT SHOWN HERE.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 3/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8") END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

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NOTES:

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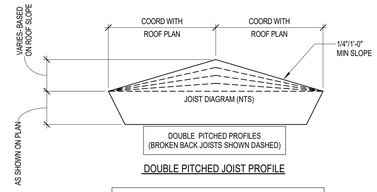

DOUBLE PITCHED JOIST PROFILE

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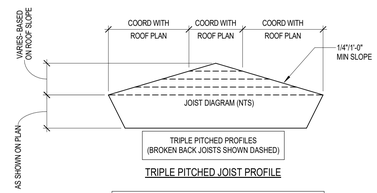

TRIPLE PITCHED JOIST PROFILE

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1 HIGH ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

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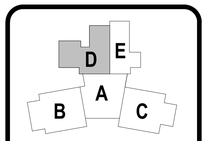
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN

NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

HIGH ROOF FRAMING PLAN - AREA A

S-104A

Plot Stamp:
10/23/2025 5:26:45 PM

ISSUE FOR PROPOSAL

HIGH ROOF FRAMING PLAN - AREA D

S-104D

FOR BLUEBEAM LABELING/OCR:

0"
1"

NOTE:

REFER TO SHEET S-102B FOR PLAN NOTES NOT SHOWN HERE.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
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COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

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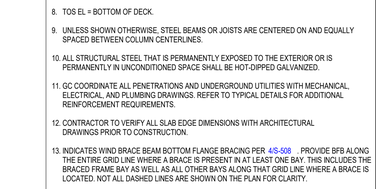

DOUBLE PITCHED JOIST PROFILE

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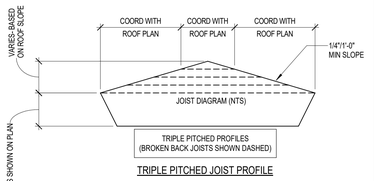

TRIPLE PITCHED JOIST PROFILE

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1 HIGH ROOF FRAMING PLAN - AREA D
1/8" = 1'-0"

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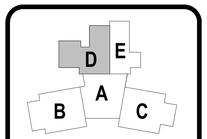
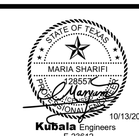


KEY PLAN
NORTH: PLAN TRUE



CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

HIGH ROOF FRAMING PLAN - AREA D

S-104D

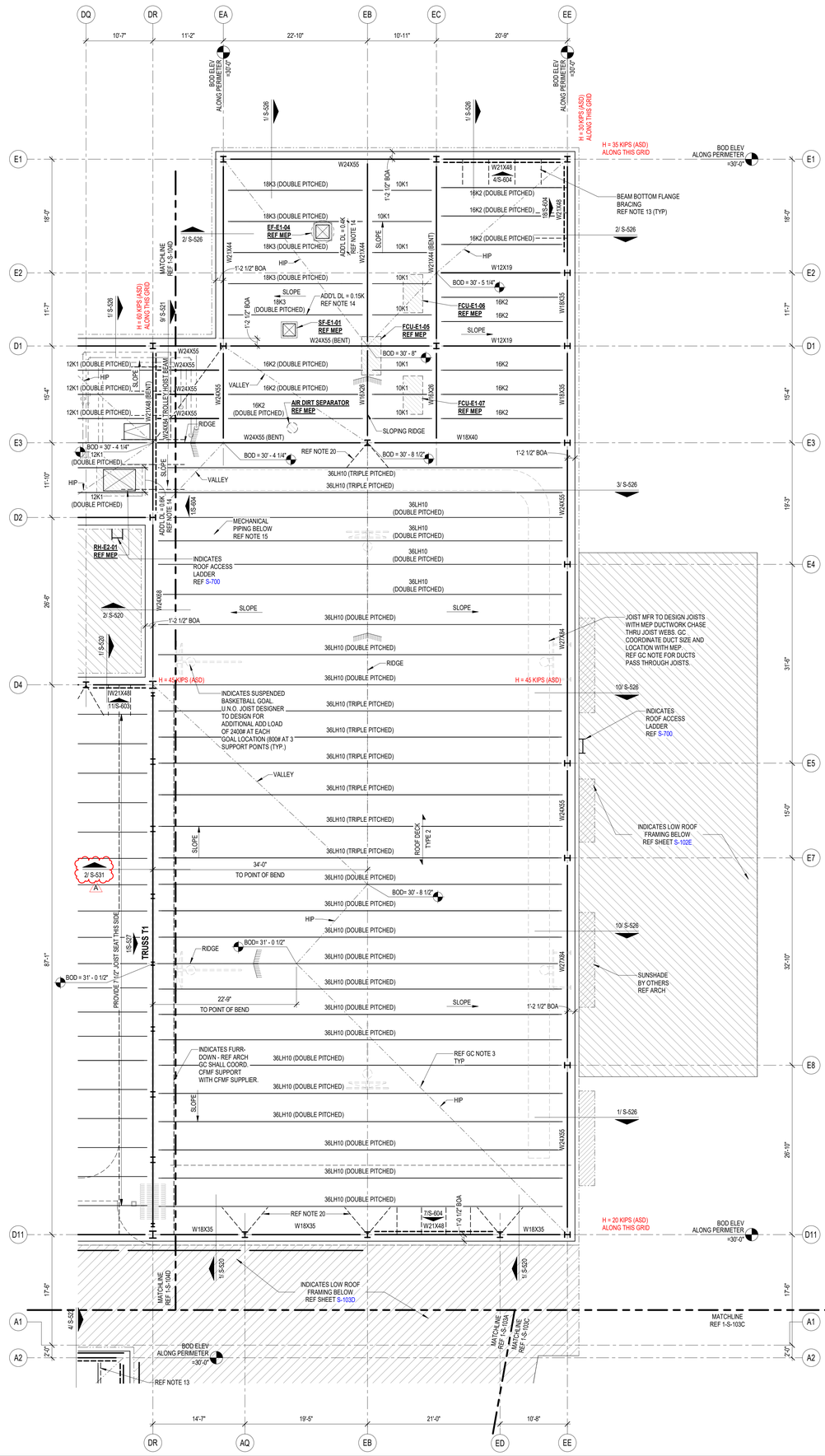
Plot Stamp:
10/23/2025 5:26:47 PM

HIGH ROOF FRAMING PLAN - AREA E

S-104E

FOR BLUEBEAM LABELING/DOOR:

ISSUE FOR PROPOSAL



GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 2500 POUNDS LOCATED 1'-3" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - XXXX POUNDS LOCATED X'-X" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE: BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8") END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV.) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

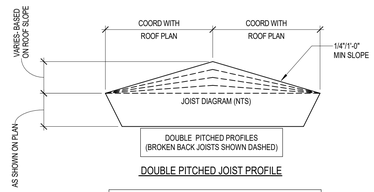
ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
1.5B 22 GA (GALV.) (G90) MTL DECK.

NOTES:

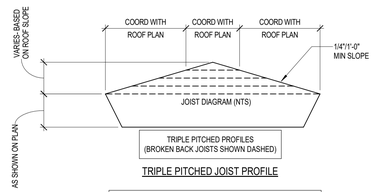
1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.

A 3 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

1 HIGH ROOF FRAMING PLAN - AREA E
1/8" = 1'-0"

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PBK

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713-961-4571 F
TX Firm: BR 1608

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MEP/T
LEAP
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THEATER+ ACOUSTICS + A/V
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SPORTS ARCHITECTURE
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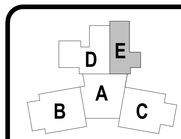
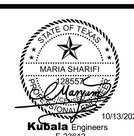
T.713-965-0600
BUILDING ENVELOPE
PBK
T.713-965-0608

MIDDLE SCHOOL 8
VOLUME X
CSP# X
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE



CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

HIGH ROOF FRAMING PLAN - AREA E

S-104E

Plot Stamp:
10/23/2025 5:26:49 PM

PROPOSAL

ISSUE FOR PROPOSAL

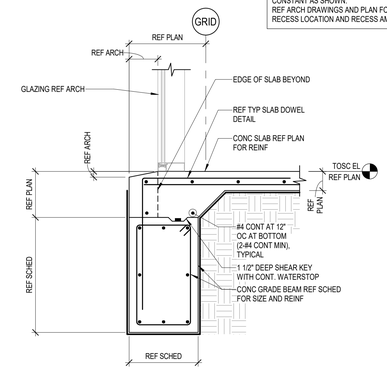
FOUNDATION DETAILS

S-311

FOR BLUEBEAM LABELING/OCR:

0"

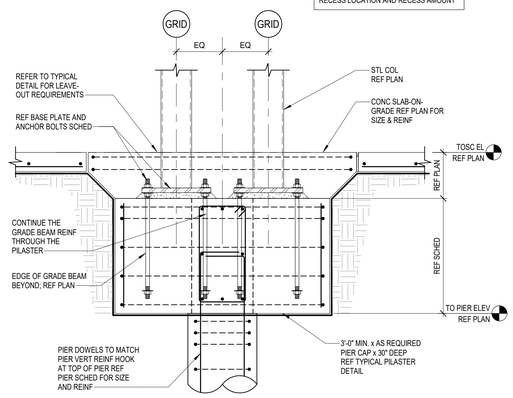
1"



NOTE:

AT SIM. CONDITION FOR RECESS, SLAB ELEVATION TO DROP AS REQ'D. TOP OF PIER AND TOP OF GRADE BEAM TO REMAIN CONSTANT AS SHOWN.
REF ARCH DRAWINGS AND PLAN FOR RECESS LOCATION AND RECESS AMOUNT

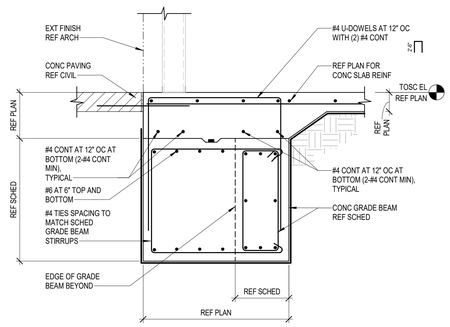
1 EXTERIOR GRADE BEAM AT STOREFRONT
3/4" = 1'-0"



NOTE:

AT SIM. CONDITION FOR RECESS, SLAB ELEVATION TO DROP AS REQ'D. TOP OF PIER AND TOP OF GRADE BEAM TO REMAIN CONSTANT AS SHOWN.
REF ARCH DRAWINGS AND PLAN FOR RECESS LOCATION AND RECESS AMOUNT

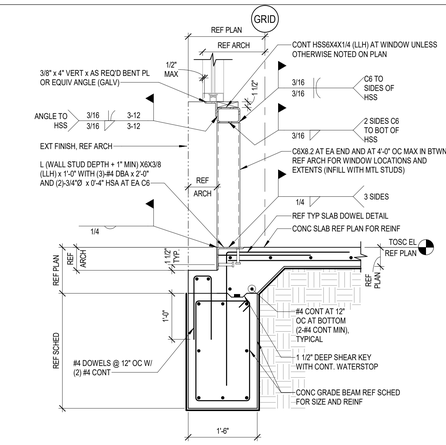
2 DOUBLE COLUMNS W/ONE PIER
3/4" = 1'-0"



NOTE:

AT SIM. CONDITION FOR RECESS, SLAB ELEVATION TO DROP AS REQ'D. TOP OF PIER AND TOP OF GRADE BEAM TO REMAIN CONSTANT AS SHOWN.
REF ARCH DRAWINGS AND PLAN FOR RECESS LOCATION AND RECESS AMOUNT

3 EXTERIOR WIDENED GRADE BEAM
3/4" = 1'-0"



NOTE:

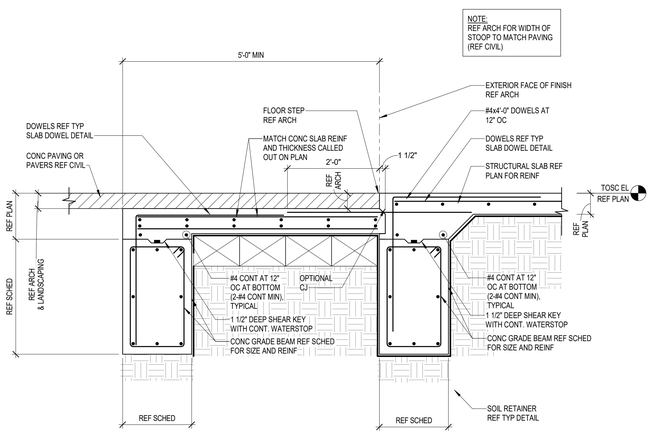
AT SIM. CONDITION FOR RECESS, SLAB ELEVATION TO DROP AS REQ'D. TOP OF PIER AND TOP OF GRADE BEAM TO REMAIN CONSTANT AS SHOWN.
REF ARCH DRAWINGS AND PLAN FOR RECESS LOCATION AND RECESS AMOUNT

4 FOUNDATION SECTION
3/4" = 1'-0"

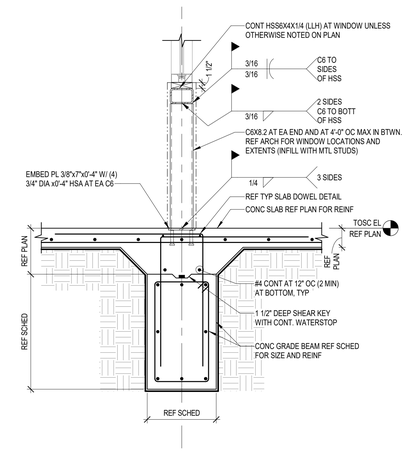
5 THICKENED SLAB AT GLAZING
3/4" = 1'-0"

6 TYPICAL STAIR REINFORCING DEATIL
3/4" = 1'-0"

7 TYPICAL CONC SLAB-ON-GRADE STOOP AT EXTERIOR DOORS
3/4" = 1'-0"



8 TYPICAL CONC SLAB-ON-GRADE STOOP AT EXTERIOR DOORS RECESSED FOR PAVERS
3/4" = 1'-0"



10 INTERIOR STOREFRONT SUPPORT
3/4" = 1'-0"

PBK

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PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
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713-961-4571 F
TX Firm: BR 1608

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LEAP
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THEATER + ACOUSTICS + A/V
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ISSUE FOR PROPOSAL

LAMAR CISD
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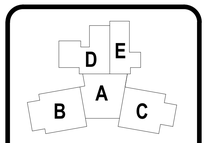
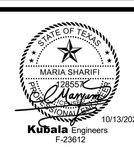


KEY PLAN
NORTH: PLAN TRUE



CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

FOUNDATION DETAILS

S-311

Kubala ENGINEERS
Ph: (800)249-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

Plot Stamp:
10/23/2025 5:26:50 PM

GENERAL STEEL NOTES AND TYP DETAILS

S-500

FOR BLUEBEAM LABELING/OCR:

0"

1"

ISSUE FOR PROPOSAL

STRUCTURAL STEEL:

MATERIAL:

1. STRUCTURAL STEEL IS TO CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS, AND IS TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS:
   - A. STEEL WIDE FLANGE AND WT SECTIONS.....ASTM A992 OR ASTM A572 - GRADE 50
   - B. MISCELLANEOUS STEEL SECTIONS (ANGLES, CHANNELS AND BARS).....ASTM A36
   - C. HOLLOW STEEL SECTIONS.....ASTM A500, GRADE B OR C, (46 KSI MIN)
   - D. STEEL PIPE SECTIONS.....ASTM A53, GRADE B
   - E. BOLTS AND NUTS (HEAVY-HEX).....ASTM A325
   - F. SHEAR-STUD CONNECTORS.....ASTM A108
   - G. ANCHOR RODS.....ASTM F1554, GRADE 36, GRADE 55 OR GRADE 105
   - H. PLATES.....ASTM A36 OR A572 GRADE 50
   - K. WASHERS.....ASTM F436
2. ALL STEEL SHALL BE DOMESTICALLY (INCLUDING CANADA) MILLED AND FABRICATED. FOREIGN STEEL SHALL NOT BE UTILIZED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER. THE APPROVAL PROCESS SHALL TAKE PLACE DURING BIDDING TIME. ANY REQUEST TO UTILIZE FOREIGN STEEL MADE AFTER BIDDING SHALL BE REJECTED.
3. STRUCTURAL STEEL, MISCELLANEOUS METAL, AND EMBEDS EXPOSED TO THE EXTERIOR ARE TO BE HOT DIP GALVANIZED AFTER FABRICATION, EXCEPT AS NOTED ON THE DRAWINGS. TUBE SHAPE MEMBERS EXPOSED TO THE EXTERIOR SHALL HAVE CAP PLATES SEAL WELDED, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. STRUCTURAL STEEL IS TO BE PREPARED AND PRIMED ACCORDING TO THE PROJECT SPECIFICATIONS. STRUCTURAL STEEL LOCATED IN CRAWL SPACES OR OTHERWISE INACCESSIBLE AREAS IS TO RECEIVE 2 COATS OF PRIMER.
5. CONTINUITY PLATES (FULL DEPTH COLUMN STIFFENERS ALIGNED WITH BEAM FLANGES, OR FULL DEPTH BEAM STIFFENERS ALIGNED WITH COLUMN FLANGES) SHALL MATCH THE STEEL GRADE OF THE BASE MEMBER.
6. IN ADDITION TO THE STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INCLUDE THREE (3) PERCENT OF TOTAL TONNAGE OF FABRICATED STEEL (LABOR FOR ERECTION SHALL BE INCLUDED) DURING THE PROCESS OF WORK AS MAY BE DIRECTED BY THE ARCHITECT/ENGINEER OF RECORD. IF STEEL IS NOT USED DURING THE COURSE OF THE PROJECT, OWNER IS TO RECEIVE A CREDIT FOR THE PORTION NOT USED.

CONNECTIONS:

1. THE DESIGN OF THE STRUCTURAL STEEL CONNECTIONS, WHICH ARE NOT FULLY DETAILED IN THE CONTRACT DOCUMENTS, IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTIONS SHALL BE PERFORMED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, WORKING FOR THE FABRICATOR, IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE AISC 303-CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
2. THE FABRICATOR'S LICENSED STRUCTURAL ENGINEER IN RESPONSIBLE CHARGE OF THE CONNECTION DESIGN SHALL REVIEW AND CONFIRM IN WRITING THAT THE SHOP AND ERECTION DRAWINGS PROPERLY INCORPORATE THE CONNECTION DESIGNS PRIOR TO SUBMITTING THE CONNECTION CALCULATIONS AND SHOP DRAWINGS TO THE ENGINEER-OF-RECORD FOR REVIEW.
3. THE FABRICATOR SHALL PROVIDE A MEANS BY WHICH THE CONNECTION INFORMATION PREPARED BY THE FABRICATOR'S LICENSED PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF THE CONNECTION DESIGN IS REFERENCED TO THE RELATED CONNECTIONS ON THE SHOP AND ERECTION DRAWINGS FOR THE PURPOSE OF REVIEW.
4. THE FABRICATOR SHALL PROVIDE BEAM SHEAR CONNECTIONS USING THE VERTICAL REACTIONS PROVIDED ON THE PLANS, WHICH ARE PROVIDED AS KIPS (SERVICE-LOAD LEVEL). ALLOWABLE STRESS DESIGN (ASD) SHALL BE USED IN THE SELECTION, COMPLETION AND DESIGN OF CONNECTION DETAILS. **IN INSTANCES WHERE REACTIONS ARE NOT SPECIFIED ON THE PLANS, THE CONNECTION DESIGNER SHALL PROVIDE CONNECTIONS BASED ON THE WORST-CASE SHEAR REACTION (HIGHEST SHEAR CAPACITY) FROM THE OPTIONS LISTED BELOW:**
   - **4.1 OPTION 1 (BASED ON BEAMS' ALLOWABLE UNIFORM LOAD):** SHEAR CONNECTION CAPACITIES FOR BEAMS SHALL BE ONE-HALF (50 PERCENT) THE TOTAL ALLOWABLE UNIFORM LOAD GIVEN IN TABLE 3-6 THROUGH 3-9 OF THE AISC MANUAL OF STEEL CONSTRUCTION. CONNECTIONS FOR COMPOSITE BEAMS AND CAMBERED ROOF BEAMS SHALL HAVE THE STANDARD AISC CAPACITY INCREASED BY 35 PERCENT.
   - **4.2 OPTION 2 (MINIMUM SERVICE-LOAD / ASD) SHEAR REACTIONS:** ALL BEAM CONNECTIONS SHALL HAVE A MINIMUM SERVICE LOAD (ASD) SHEAR CAPACITY GIVEN IN TABLE 4.2. REFER TO TYPICAL DOUBLE-ANGLE CONNECTION SCHEDULE (1/S-503) AND TYPICAL SHEAR TAB BOLTED CONNECTION SCHEDULE (2/S-503) FOR SHEAR CONNECTIONS THAT MEET THE MINIMUM SERVICE-LOAD (ASD) SHEAR CONNECTION CAPACITIES LISTED IN TABLE 4.2. ALTERNATE CONNECTION DETAILS ARE ACCEPTABLE PROVIDED SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED, AND ALL CONNECTION DESIGNS ARE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

TABLE 4.2 - MINIMUM SERVICE-LOAD (ASD) SHEAR CONNECTION CAPACITIES

BEAM SIZE	MINIMUM REACTION (KIPS) (SERVICE-LOAD LEVEL)	BEAM SIZE	MINIMUM REACTION (KIPS) (SERVICE-LOAD LEVEL)
W8	9	W24	83
W10	14	W27	113
W12	23	W30	119
W14	28	W33	142
W16	40	W36	160
W18	48	W40	193
W21	64	W44	195

5. SHEAR CONNECTIONS MAY BE SELECTED FROM THE TABLES IN PART 10 OF THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION IF THE CONNECTION MEETS THE SHEAR CAPACITY REQUIREMENTS OF CONNECTION NOTE 4 ABOVE. TABLE 10-1 SHALL BE USED FOR BOLTED DOUBLE ANGLE CONNECTIONS, TABLE 10-2 SHALL BE USED FOR WELDED/BOLTED DOUBLE ANGLE CONNECTIONS, AND TABLE 10-3 SHALL BE USED FOR WELDED DOUBLE ANGLE CONNECTIONS.
6. DOUBLE CONNECTIONS AT COLUMNS AND/OR AT BEAM WEBS OVER A COLUMN. WHEN TWO STRUCTURAL MEMBERS ON OPPOSITE SIDES OF A COLUMN WEB, OR A BEAM WEB OVER A COLUMN, ARE CONNECTED SHARING COMMON CONNECTION HOLES, AT LEAST ONE BOLT WITH ITS WRENCH-TIGHT NUT SHALL REMAIN CONNECTED TO THE FIRST MEMBER UNLESS A SHOP-ATTACHED OR FIELD-ATTACHED SEAT OR EQUIVALENT CONNECTION DEVICE IS SUPPLIED WITH THE MEMBER TO SECURE THE FIRST MEMBER AND PREVENT THE COLUMN FROM BEING DISPLACED.
7. THE DRAWINGS INDICATE VARIOUS NON-PRIMARY STRUCTURAL FRAME ELEMENTS SUCH AS SHELF ANGLES, LINTELS, SUPPORT MEMBERS FOR CURTAIN WALLS OR MASONRY, AND EDGE ANGLES FOR OPENINGS AND PERIMETER CONDITIONS WHICH ARE INTENDED TO SUPPORT OR BE COORDINATED WITH MATERIALS FURNISHED BY OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE FRAMING AND FOR MEETING THE TOLERANCES REQUIRED BY OTHER TRADES, WHICH MAY BE MORE STRINGENT THAN A.I.S.C. TOLERANCES FOR STRUCTURAL STEEL. WHERE THESE NON-PRIMARY STRUCTURAL FRAME ELEMENTS ARE INDICATED TO BE WELDED (INDICATED EITHER FIELD OR SHOP WELDED) IN THE DRAWINGS, THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR DETERMINING IF THE WELDS SHOULD BE MADE IN THE SHOP OR FIELD IN ORDER TO ACHIEVE PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE FRAMING AND FOR MEETING THE TOLERANCES REQUIRED BY OTHER TRADES.
8. SPLICING OF STRUCTURAL STEEL MEMBERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER, IF NOT ALREADY SHOWN ON THE DRAWINGS.
9. SHOP BOLTED CONNECTIONS ARE PERMISSIBLE IF SUFFICIENT BOLT CLEARANCE IS AVAILABLE FOR TIGHTENING OF HIGH STRENGTH BOLTS. CLEARANCES SHALL BE IN ACCORDANCE WITH TABLE 7-16 AND 7-17 OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. ALL STEEL MEMBERS AND ASSEMBLIES SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE. TRUSSES SHALL BE FULLY SHOP ASSEMBLED. FIELD SPLICES FOR SHIPPING PURPOSES SHALL ONLY BE AS APPROVED BY THE ENGINEER OF RECORD. THE STEEL FABRICATOR AND THE STEEL ERECTOR SHALL COORDINATE THE SHOP FABRICATION, SHIPPING AND ERECTION OF ALL STRUCTURAL MEMBERS AND ASSEMBLIES.
10. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS MUST CONFORM TO ASTM A325-N HIGH-STRENGTH BOLTS UNLESS NOTED OTHERWISE. MINIMUM SIZE SHALL BE 3/4 INCH DIAMETER. STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS SPECIFIED ON S-503. BOLTS SHALL BE DIRECT TENSION INDICATING BOLTS CONFORMING TO ASTM F1852 WITH HARDENED WASHERS UNDER THE NUT AND SACRIFICIAL SPLINES. HEX NUTS MUST CONFORM TO ASTM A563 AND WASHERS MUST CONFORM TO ASTM F436.
11. ALL MOMENT CONNECTIONS SHALL BE FULL WELDED CONNECTIONS DESIGNED TO DEVELOP THE FULL CROSS-SECTION OF THE MEMBER. STIFFENER PLATES, WHERE SHOWN, ARE MANDATORY AND MAY NOT BE OMITTED. MOMENT CONNECTIONS ARE INDICATED ON THE PLANS BY A TRIANGULAR BULB ON THE END OF THE BEAM, OR BY THE LETTERS "MC". CANTILEVER BEAMS MOMENT CONNECTED TO THE FRAME SHALL BE THE SAME SIZE AS THE BACK-UP SPAN IF NO SIZE IS GIVEN.
12. WHERE HORIZONTAL FORCES ARE INDICATED ON PLAN AS "H= _K", THE LICENSED PROFESSIONAL ENGINEER WORKING FOR THE FABRICATOR SHALL SIZE THE CONNECTION TO TRANSFER THE HORIZONTAL FORCE IN ADDITION TO THE REQUIRED VERTICAL REACTION. SLOTTED HOLES ARE NOT PERMITTED AT CONNECTIONS WITH HORIZONTAL FORCES.
13. EMBED PLATES TO BE INSTALLED IN THE FOUNDATION AND/OR SLAB SHALL BE SUBMITTED FOR REVIEW WITH THE ANCHOR BOLTS.
14. BOLTS SHALL BE TIGHTENED BY THE AISC "SNUG TIGHT" METHOD UNLESS NOTED OTHERWISE.
15. CANTILEVER BEAMS MOMENT CONNECTED TO THE FRAME SHALL BE THE SAME SIZE AS THE BACK-UP SPAN IF NO SIZE IS GIVEN.
16. SHELF ANGLES SHOWN AS CONTINUOUS IN THE SECTIONS SHALL BE INSTALLED IN 20'-0" MAXIMUM LENGTHS, LEAVING A 1/4" GAP BETWEEN ENDS AND AT CORNERS. LOCATE GAPS TO MATCH MASONRY CONTROL JOINTS. AT BUILDING EXPANSION JOINT, LEAVE A GAP TO MATCH EXPANSION JOINT WIDTH.
17. CONNECT MISCELLANEOUS STEEL MEMBERS USING FILLET WELDS SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS SHOWN OTHERWISE.
18. STEEL MEMBERS SHOWN TO BE CURVED SHALL BE ROLLED IN A MANNER THAT WILL NOT CAUSE DISTORTION OR BUCKLING. SHOULD ALTERATIONS TO THE MEMBER SIZE, SUCH AS A THICKER FLANGE OR WEB, BE REQUIRED TO ENSURE THIS OUTCOME, THE ADDITIONAL STEEL SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.
19. WHERE STIFFENER PLATES ARE INDICATED ON DRAWINGS, THEY ARE REQUIRED AND SHALL BE PROVIDED AS INDICATED.
20. PROVIDE WELDED IN SPACER PLATES AT THREE FEET ON CENTER AT ALL BACK-TO-BACK CHANNELS OR DOUBLE ANGLES.
21. BEAMS WITH LATERAL BRACING ATTACHED AND WEB CONNECTIONS OF MOMENT-CONNECTED BEAMS SHALL UTILIZE SLIP CRITICAL BOLTS OR WELDED CONNECTIONS.
22. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS), IF NOTED ON STRUCTURAL PLANS OR BY THE ARCHITECT, SHALL CONFORM TO AISC 303 SECTION 10.
23. INSTALL LEDGER ANGLES FOR FASCIA BRICK SUPPORT SUCH THAT THE SWEEP OR CAMBER DOES NOT EXCEED 1/8 INCH DEVIATION FROM STRAIGHT LINE.
24. TEMPORARY SUPPORTS, BRACES, FALSE WORK, SHORES, CRIBBING OR OTHER SUPPORTS REQUIRED DURING ERECTION TO KEEP STRUCTURAL STEEL SECURE, SUPPORTED, PLUMB, AND IN ALIGNMENT SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR AND STEEL ERECTOR. THESE TEMPORARY SUPPORTS SHALL SECURE THE STRUCTURAL STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST ALL LATERAL AND VERTICAL LOADS, INCLUDING BUT NOT LIMITED TO THOSE RESULTING FROM WIND, SEISMIC, ERECTION OPERATIONS AND THE WEIGHT OF THE STRUCTURE AND SUPPORTED ELEMENTS. ALL TEMPORARY SUPPORTS SHALL REMAIN IN PLACE DURING CONSTRUCTION UNTIL THE PERMANENT STRUCTURAL STEEL, CONNECTIONS, FLOOR DECKS AND BRACING ELEMENTS INDICATED IN THE CONTRACT DOCUMENTS ARE COMPLETE.

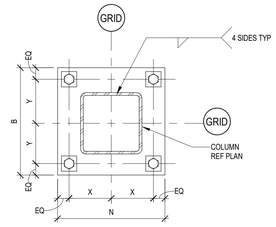
WELDING:

1. ALL WELDING MUST CONFORM TO THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1 STANDARDS, AND SHALL CONFORM TO THE STANDARDS OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION. ALL WELDERS MUST BE CERTIFIED IN ACCORDANCE WITH AWS D1.1. WELDING OF REINFORCING BARS SHALL COMPLY TO THE AMERICAN WELDING SOCIETY AWS D1.4. SHORT CIRCUIT TRANSFER FOR THE GAS METAL ARC WELDING PROCESS IS NOT PERMITTED.
2. ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL BE CLASS E70XX. ELECTRODES FOR MOMENT CONNECTIONS SHALL BE CLASS E7018 WITH A CHARPY TOUGHNESS OF AT LEAST 20 FT-LBS AT -20 DEGREES FAHRENHEIT.
3. ALL MISCELLANEOUS WELDS SHALL BE MINIMUM SIZE FILLET ALL AROUND AND MUST BE IN ACCORDANCE WITH AISC. WELDING OF CONTINUOUS MEMBERS SHALL BE A MINIMUM OF 2 INCHES OF 3/16 INCH FILLET STITCH WELDS AT 12 INCHES O.C., STAGGERED EACH SIDE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. COLUMN BASE PLATES, STIFFENER PLATES AND CAP PLATES SHALL BE WELDED ALL AROUND.
4. HEADED STUDS SHALL BE WELDED TO EMBED PLATES BY A METHOD IN WHICH THE CONNECTION CAN DEVELOP THE FULL TENSION AND SHEAR CAPACITY OF THE STUD.

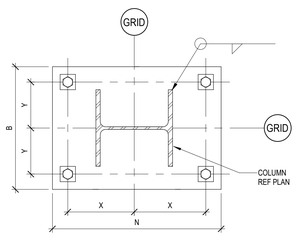
BASE PLATE NOTES:

1. ALL ANCHOR RODS SHALL BE F1554 GRADE 55 UNLESS NOTED OTHERWISE.
2. SIZE WELDS PER AISC MINIMUM FILLET REQUIREMENTS, 5/16" MINIMUM.
3. UNLESS NOTED OTHERWISE, ALL ANCHOR ROD NUTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC AFTER THE CONCRETE IS AT LEAST 14 DAYS OLD.
4. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION. PLATE WASHERS WITH STANDARD HOLES SHALL BE INSTALLED OVER OVERSIZED HOLES.
5. CONTRACTOR SHALL PROVIDE TEMPLATE FOR ANCHOR ROD INSTALLATION.
6. NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES:

   ALL GROUT USED UNDER STEEL COLUMN BASE PLATES OR BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT COMPOUND CONFORMING TO ASTM C1090 AND THE CORPS OF ENGINEERS SPECIFICATION CRD-C-621. THE GROUT SHALL HAVE A MINIMUM STRENGTH OF 6,000 PSI WHEN BEARING ON 3,000 PSI CONCRETE OR LESS, A STRENGTH OF 8,000 PSI WHEN BEARING ON CONCRETE BETWEEN 3,000 AND 4,000 PSI, AND, UNLESS NOTED OTHERWISE ON THE DRAWINGS, A STRENGTH OF 8,000 PSI WHEN BEARING ON CONCRETE GREATER THAN 4,000 PSI. 100 PERCENT OF VOID UNDER ALL BASE PLATES IS TO BE GROUTED. ALL BASE PLATES WITH A DIMENSION GREATER THAN 24" SHALL HAVE TWO 1" DIAMETER GROUT HOLES. IF THE SPACE UNDER A COLUMN BASE PLATE IS LESS THAN 1/4", A PRESSURE INJECTION SYSTEM SHALL BE USED.



TYPE 1 HSS BASE PLATE
NTS



TYPE 2 WIDE FLANGE BASE PLATE
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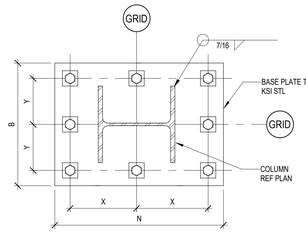

TYPE 3 WIDE FLANGE MOMENT BASE PLATE
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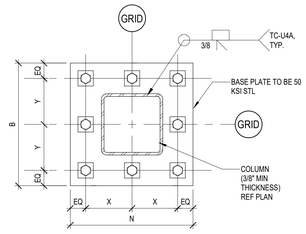

TYPE 4 MOMENT BASE PLATE
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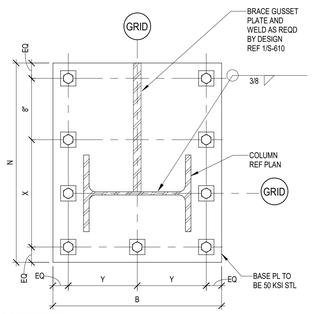

TYPE 5 BRACE BASE PLATE
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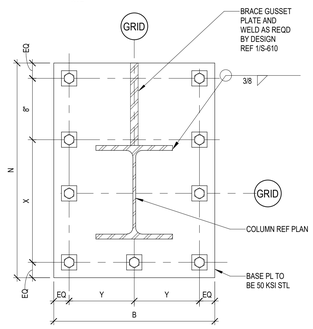

TYPE 6 BRACE BASE PLATE
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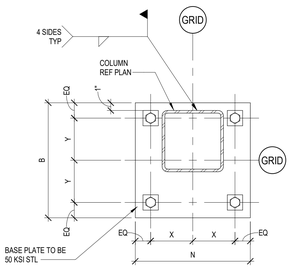

TYPE 7 HSS BASE PLATE
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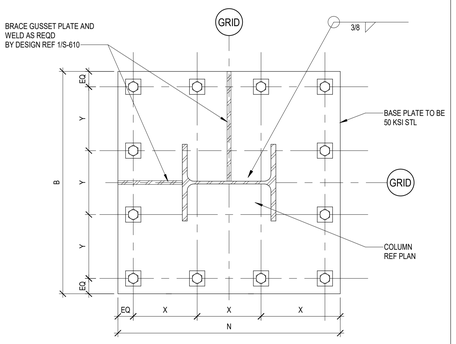


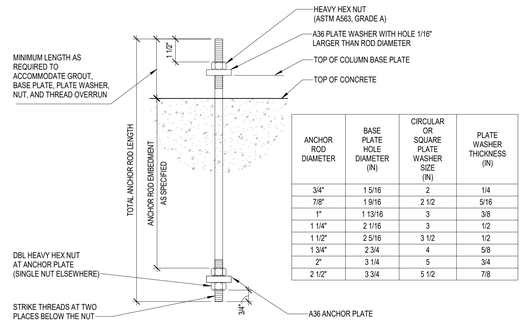
TYPE 8 VERTICAL BRACE BASE PLATE
NTS

BASE PLATE SCHEDULE

MARK	COLUMN SIZE	BASE PLATE TYPE	BASE PLATE DIMENSIONS					ANCHOR RODS				NOTES
			N LENGTH (IN)	B WIDTH (IN)	T THICKNESS (IN)	X (IN)	Y (IN)	NUMBER	DIA (IN)	EMBED LENGTH (IN)	ANCHOR ROD GRADE	
-	HSS4X4 STAIR COLUMN	1	10	10	1	3 1/2	3 1/2	4	3/4	18	36	-
-	HSS6X6	1	12	12	1	4 1/2	4 1/2	4	3/4	18	36	-
-	HSS8X8	1	16	16	1 1/4	6	6	4	1	18	36	-
-	HSS10X10	1	19	19	1 1/2	7	7	4	1 1/4	18	36	-
MBPL	HSS8X8 FIXED	4	19	19	1 1/2	7	7	8	1 3/4	24	105	CJP COLUMN WELD TO BASE PLATE
MBPL	HSS10X10 FIXED	4	21	21	1 3/4	8	8	8	1 3/4	24	105	CJP COLUMN WELD TO BASE PLATE
-	W10X33-W10X39	2	18	15	1	7	5 1/2	4	1	18	36	-
-	W10X45-W10X54	2	18	16	1 1/4	7	6	4	1	18	36	-
-	W10X68	2	19	16	1 3/4	7 1/2	6	4	1	18	36	-
-	W10X77-W10X88	2	19	16	1 3/4	7 1/2	6	4	1	18	36	BASE PLATE TO BE 50 KSI STEEL
-	W12X96-W12X120 (A)	2	21	18	1 3/4	8 1/2	7	4	1 1/4	18	36	BASE PLATE TO BE 50 KSI STEEL
-	W10 BRACE	5 OR 6	32	24	2	18	9	9	1 1/2	18	105	MIN 3/8" COLUMN WELD TO BASE PLATE
-	W10 BRACE (2-DIRECTIONS)	8	30	30	2	8	8	12	1 1/2	18	105	MIN 3/8" FLANGE WELD TO BASE PLATE
-	W12 BRACE (2-DIRECTIONS)	8	33	33	2 1/2	9	9	12	1 1/2	18	105	MIN 3/8" FLANGE WELD TO BASE PLATE, MIN 4'-0" x 4'-6" CONCRETE PEDESTAL
MBPL	W10 FIXED	3	20	19	1 3/4	8	7 1/2	8	1 1/2	18	105	CJP COLUMN WELD TO BASE PL; BASE PLATE TO BE 50 KSI STEEL

NOTES:

1. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
2. PLATE WASHERS WITH STANDARD HOLES SHALL BE INSTALLED OVER OVERSIZED HOLES.
3. CONTRACTOR SHALL PROVIDE TEMPLATE FOR ANCHOR ROD INSTALLATION.
4. MINIMUM GROUT THICKNESS PER GROUT THICKNESS SCHEDULE.
5. SIZE WELDS PER AISC MINIMUM FILLET REQUIREMENTS, 5/16" MINIMUM.



ANCHOR ROD DIAMETER	BASE PLATE HOLE DIAMETER (IN)	CIRCULAR OR SQUARE PLATE WASHER SIZE (IN)	PLATE WASHER THICKNESS (IN)
3/4"	1 5/16	2	1/4
7/8"	1 9/16	2 1/2	5/16
1"	1 13/16	3	3/8
1 1/4"	2 1/16	3	1/2
1 1/2"	2 5/16	3 1/2	1/2
1 3/4"	2 3/4	4	5/8
2"	3 1/4	5	3/4
2 1/2"	3 3/4	5 1/2	7/8

GROUT THICKNESS SCHEDULE	
ANCHOR BOLT SIZE (DIA.)	MINIMUM GROUT THICKNESS
LESS THAN OR EQUAL TO 1 1/4"Ø	2"
GREATER THAN 1 1/4"Ø	3"

NOTES:

1. REFER TO SPECIFICATIONS AND GENERAL NOTES FOR GROUT REQUIREMENTS.
2. GROUT MAY BE BEVELED OR FORMED BUT SHALL EXTEND A MIN OF 1 1/2" BEYOND FACE OF BASE PLATE.

1 COLUMN BASE PLATE AND ANCHOR ROD SCHEDULE
NO SCALE

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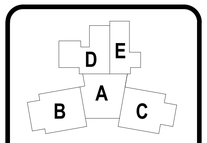
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

GENERAL STEEL NOTES AND TYP DETAILS

S-500

Plot Stamp:
10/23/2025 5:26:51 PM

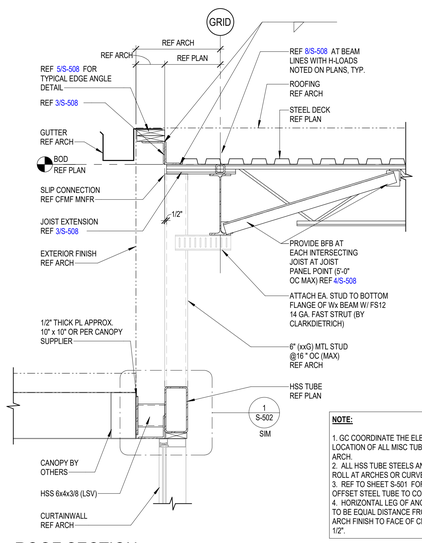
ISSUE FOR PROPOSAL

ROOF FRAMING DETAILS

S-522

FOR BLUEBEAM LABELING/OCR:

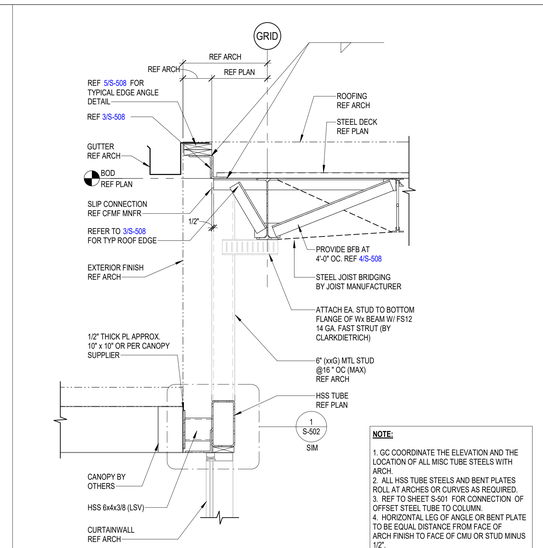
0"
1"



NOTE:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".

1 ROOF SECTION
3/4" = 1'-0"



NOTE:

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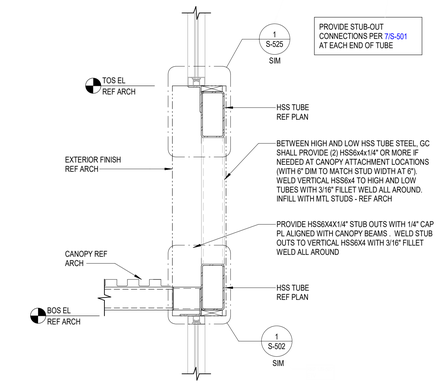
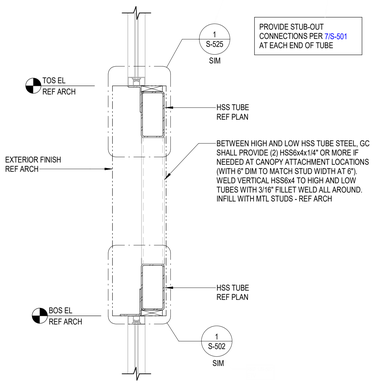
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".

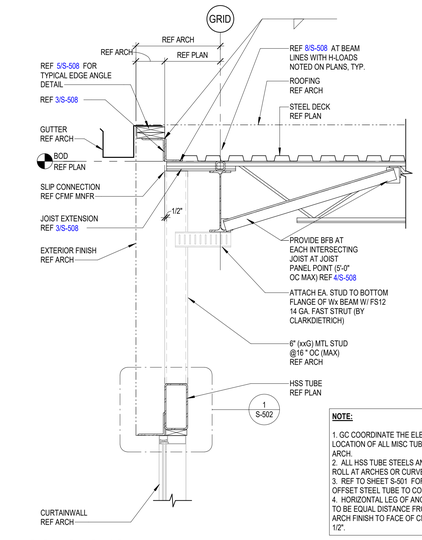
2 ROOF SECTION
3/4" = 1'-0"



3 PRE-MANUFACTURED CANOPY CONNECTION
3/4" = 1'-0"



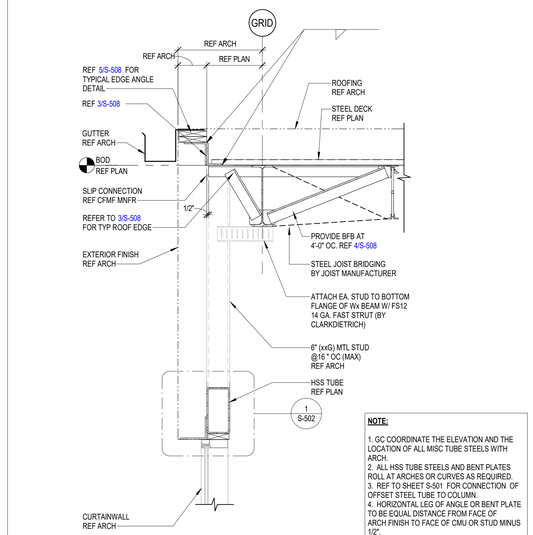
4 CURTAINWALL SUPPORT DETAIL
3/4" = 1'-0"



NOTE:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".

5 ROOF SECTION
3/4" = 1'-0"



NOTE:

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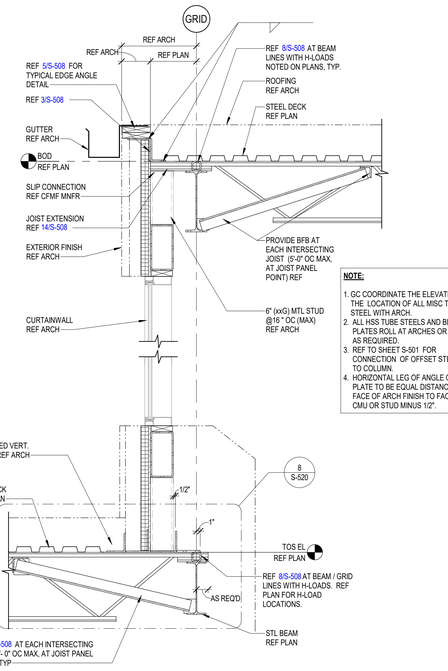
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".

6 ROOF SECTION
3/4" = 1'-0"



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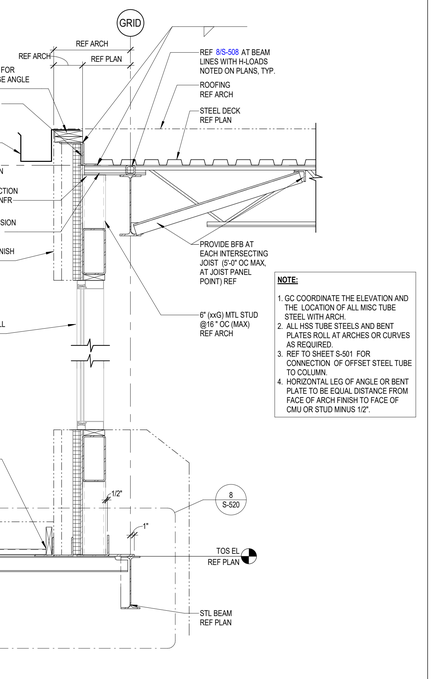
7 ROOF SECTION AT CLERESTORY WINDOW
3/4" = 1'-0"



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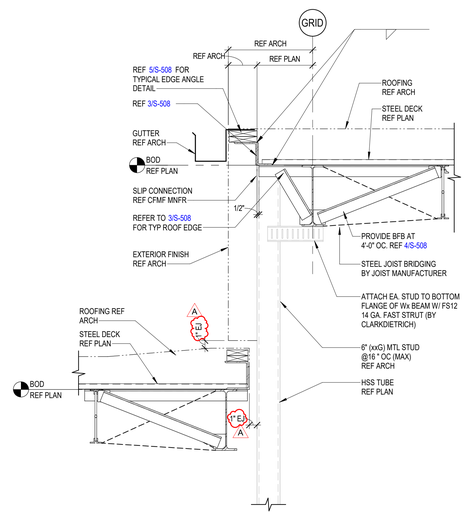
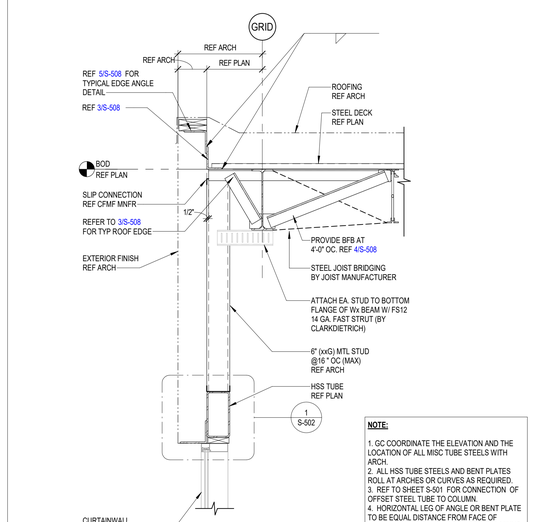
8 ROOF SECTION AT CLERESTORY WINDOW
3/4" = 1'-0"



9 HI/ LO ROOF SECTION AT EJ
3/4" = 1'-0"



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10 ROOF SECTION
3/4" = 1'-0"

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MIDDLE SCHOOL 8
VOLUME X
CSP# X

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ISSUE FOR PROPOSAL

LAMAR CISD
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D E B A C

KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

ROOF FRAMING DETAILS

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www.kubalaengineers.com
TX. REG. NO. F-23612

S-522

Plot Stamp:
10/23/2025 5:26:53 PM

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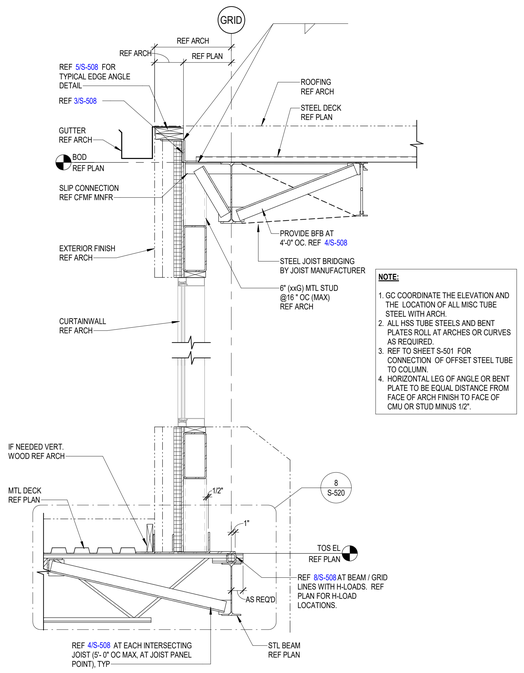
ROOF FRAMING DETAILS

S-523

FOR BLUEBEAM LABELING/OCR:

0"
1"



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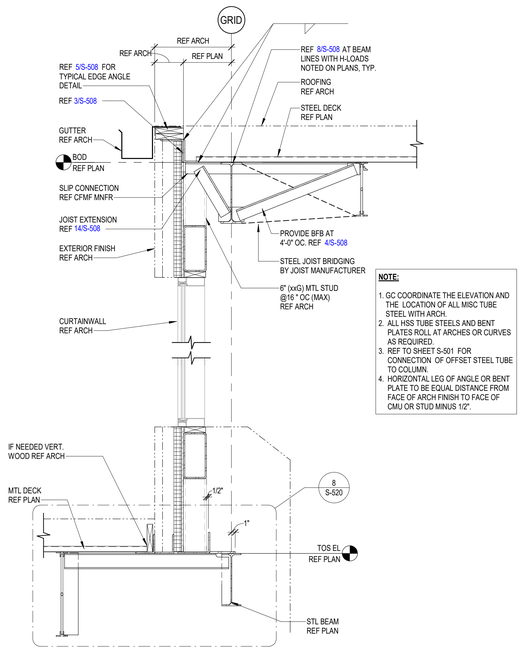
1 ROOF SECTION AT CLERESTORY WINDOW
3/4" = 1'-0"



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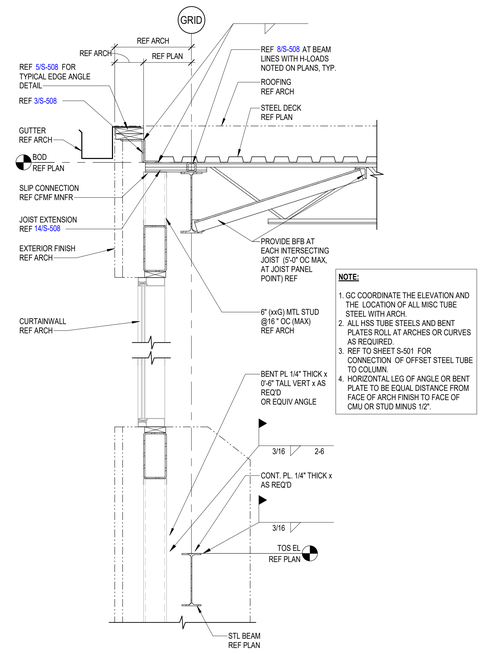
2 ROOF SECTION AT CLERESTORY WINDOW
3/4" = 1'-0"



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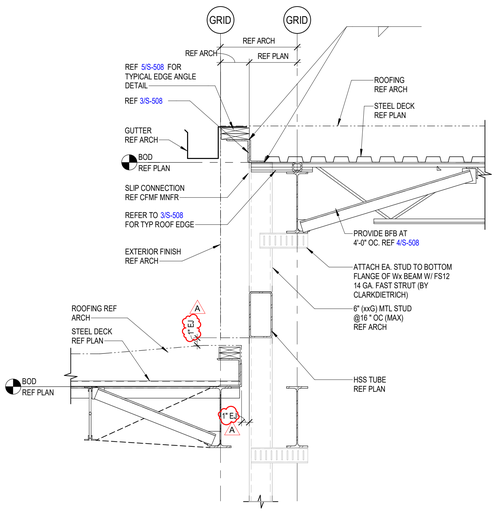
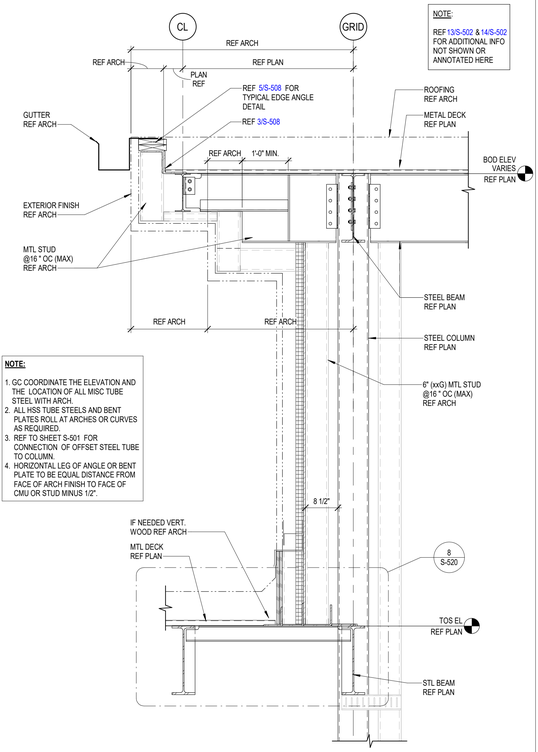


4 HI/ LO ROOF SECTION AT EJ
3/4" = 1'-0"



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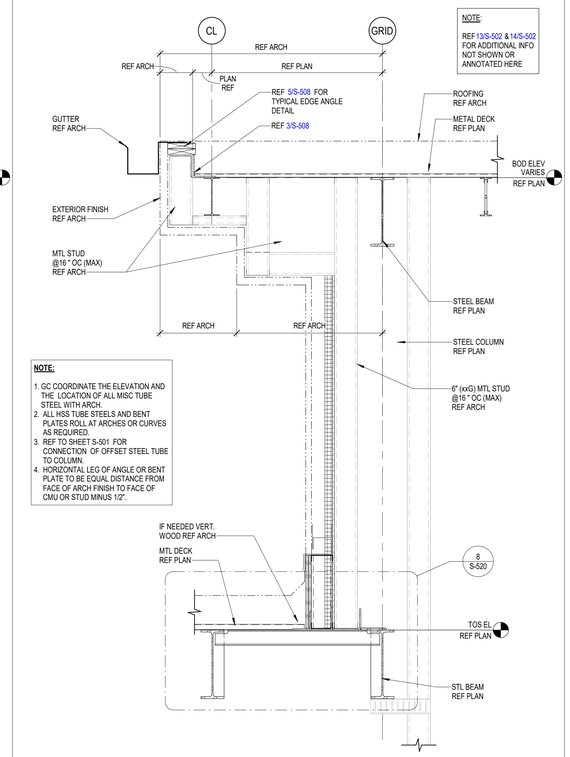
NOTE:

REF 13/S-502 & 14/S-502 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE

5 ROOF SECTION AT CANTILEVERED BEAM
3/4" = 1'-0"



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6 ROOF SECTION AT OVERHANG
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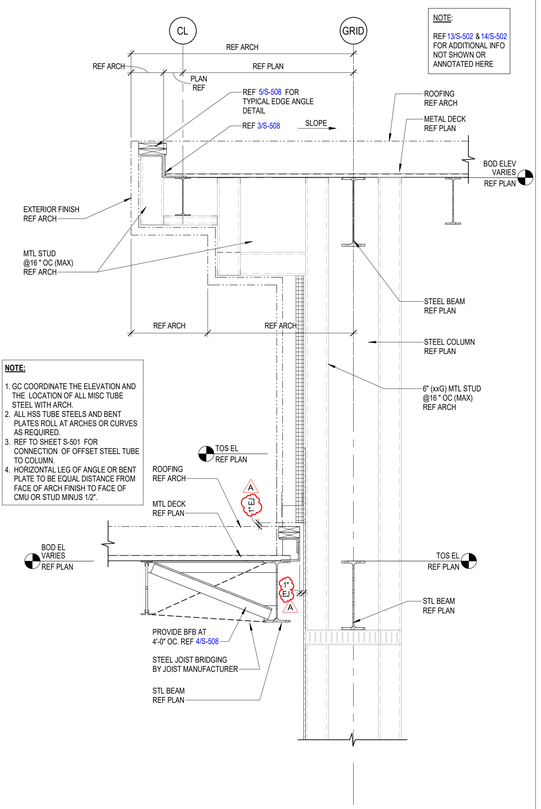

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7 ROOF SECTION AT OVERHANG
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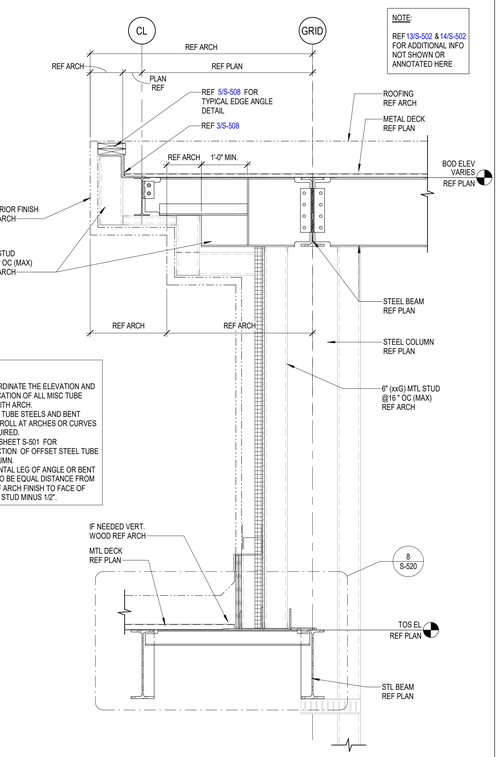

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NOTE:

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8 ROOF SECTION AT OVERHANG
3/4" = 1'-0"

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MIDDLE SCHOOL 8
VOLUME: X
CSP#: X
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ISSUE FOR PROPOSAL

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D E B A C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MARIA SHARIFI
128557
LICENSED
PROFESSIONAL
ENGINEER
10/13/2025
Kubala Engineers
F-23612

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: MS
DRAWN BY: JD

ROOF FRAMING DETAILS

S-523

Plot Stamp:
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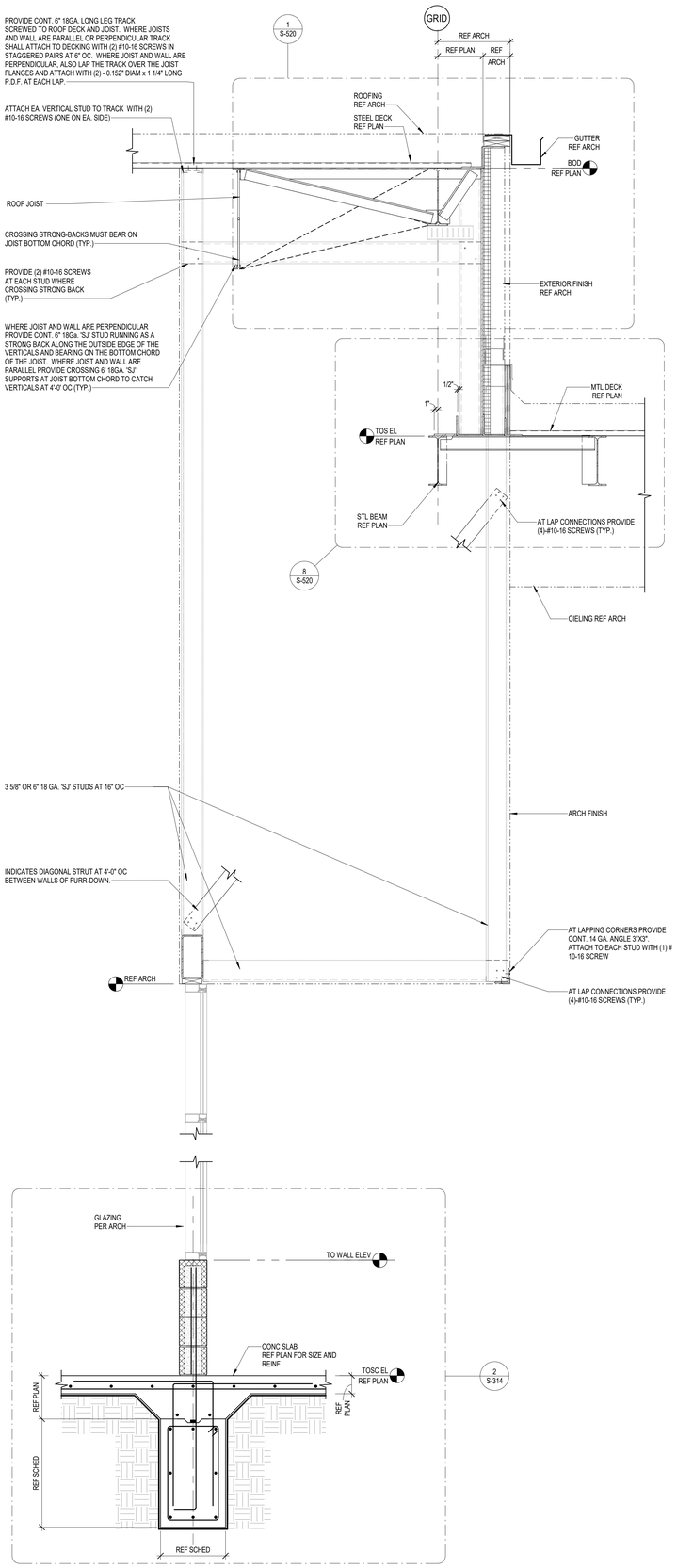
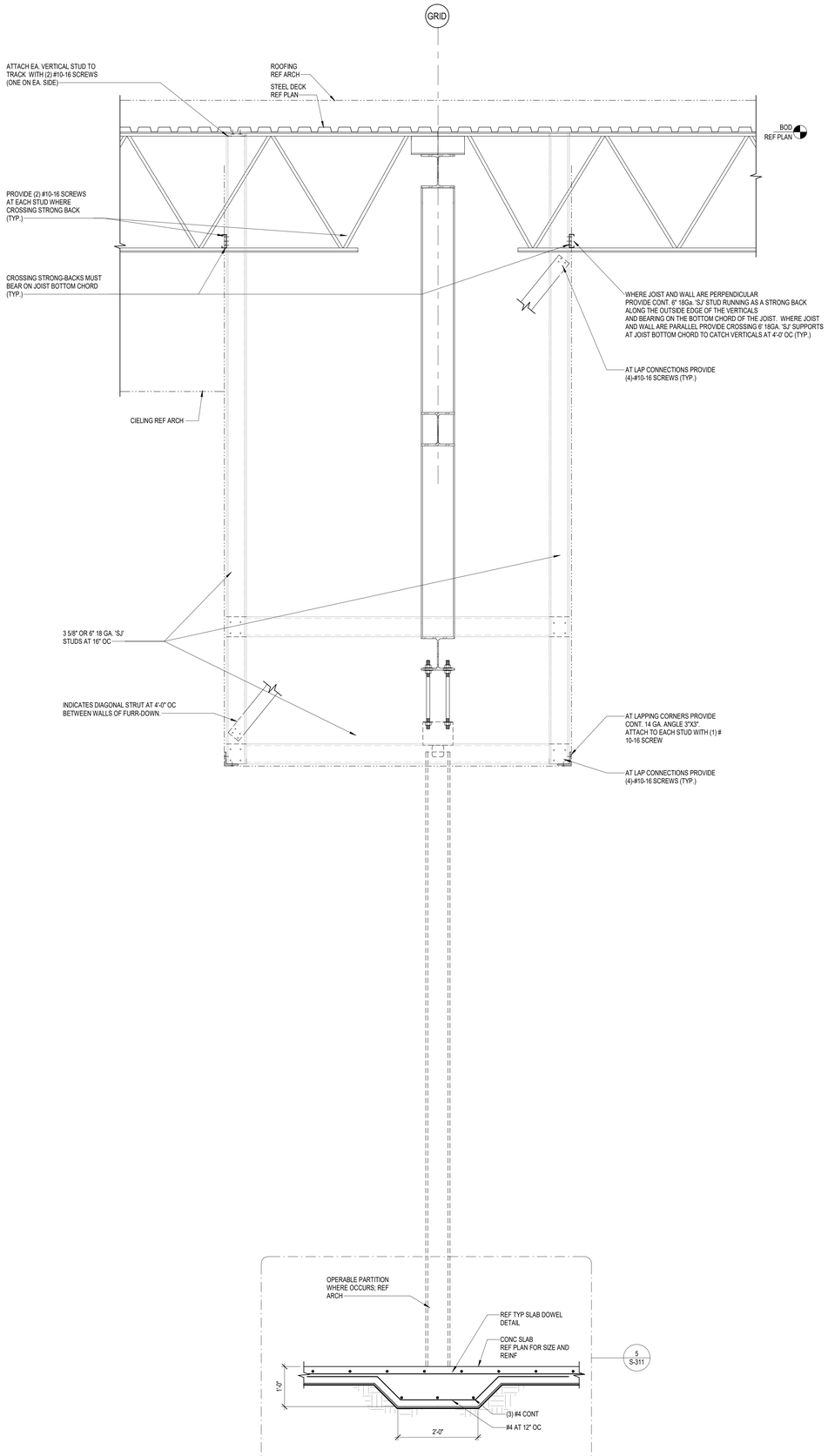
BUILDING SECTIONS
S-531
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



1 FURR-DOWN SECTION AT CAFETERIA
3/4" = 1'-0"



2 FURR-DOWN SECTION AT CAFETERIA
3/4" = 1'-0"

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RSC
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S-531 A

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0"
1"

BUILDING SECTIONS
S-532
FOR BLUEBEAM LABELING/OCR:

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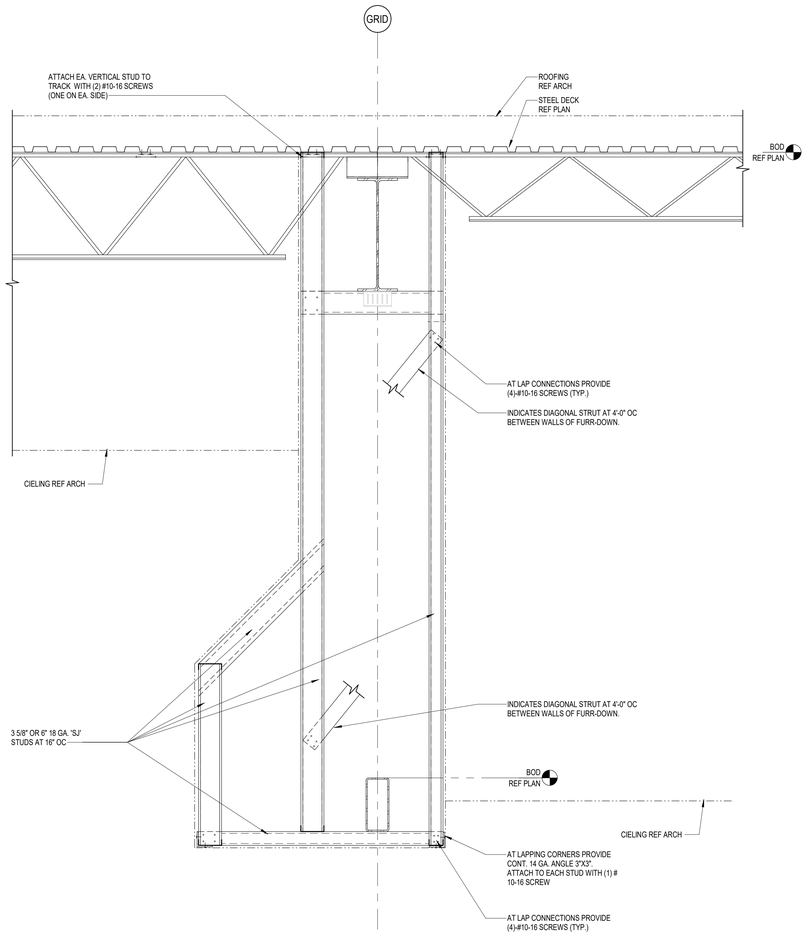

1 FURR-DOWN SECTION AT STAGE
3/4" = 1'-0"

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VOLUME X
CSP# X

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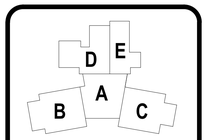
KEY PLAN



NORTH: PLAN TRUE

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1ST FLOOR PLAN - AREA A

A-101A

FOR BLUEBEAM LABELING/DOCR:

0"

1"

01 1ST LEVEL - FLOOR PLAN - AREA A
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE F3 & M4 U.N.O. REFER TO DIMENSIONAL PLANS FOR WALL TAGS.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3, M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 72 00.WC4	WALL COVERING TYPE 4 - MAGNETIC RECEPTIVE DRY ERASE WALLCOVERING
10 11 00.MBP	PORCELAIN-ENAMEL MARKERBOARD
10 11 00.TKB	TACKBOARD
10 11 00.TKW	TACKABLE WALL PANEL
10 12 00.DCR	RECESSED DISPLAY CASE
10 14 00.ELE	OSHA COMPLIANT SIGNAGE INDICATING DANGER HIGH VOLTAGE/AUTHORIZED PERSONS ONLY
10 44 00.FE-D	FIRE EXTINGUISHER, CARBON DIOXIDE
10 44 00.FEC(P)	FIRE EXTINGUISHER CABINET, PARTIALLY-RECESSED
10 51 13.MWR	METAL WEAPONS RACK
10 56 13.4PS	FOUR POST SHELVING
11 28 00.CP1	COPIER/PRINTER (OFOI)
11 30 13.ICE	UNDERCOUNTER ICEMAKER/BIN
11 52 00.M55	MONITOR, 55" TV
11 52 00.M75	MONITOR, 75" TV
11 52 00.M98	MONITOR, 98" TV
11 52 00.SB1	SMARTBOARD (CFCI)
11 73 11.PLS	STANDARD PATIENT LIFT SYSTEM
22 40 00.MOP	MOP SINK, REFER TO PLUMBING
28 00 00.FAP	FIRE ALARM PANEL, REFER TO FIRE PROTECTION

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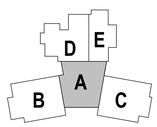
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

1ST FLOOR PLAN - AREA A

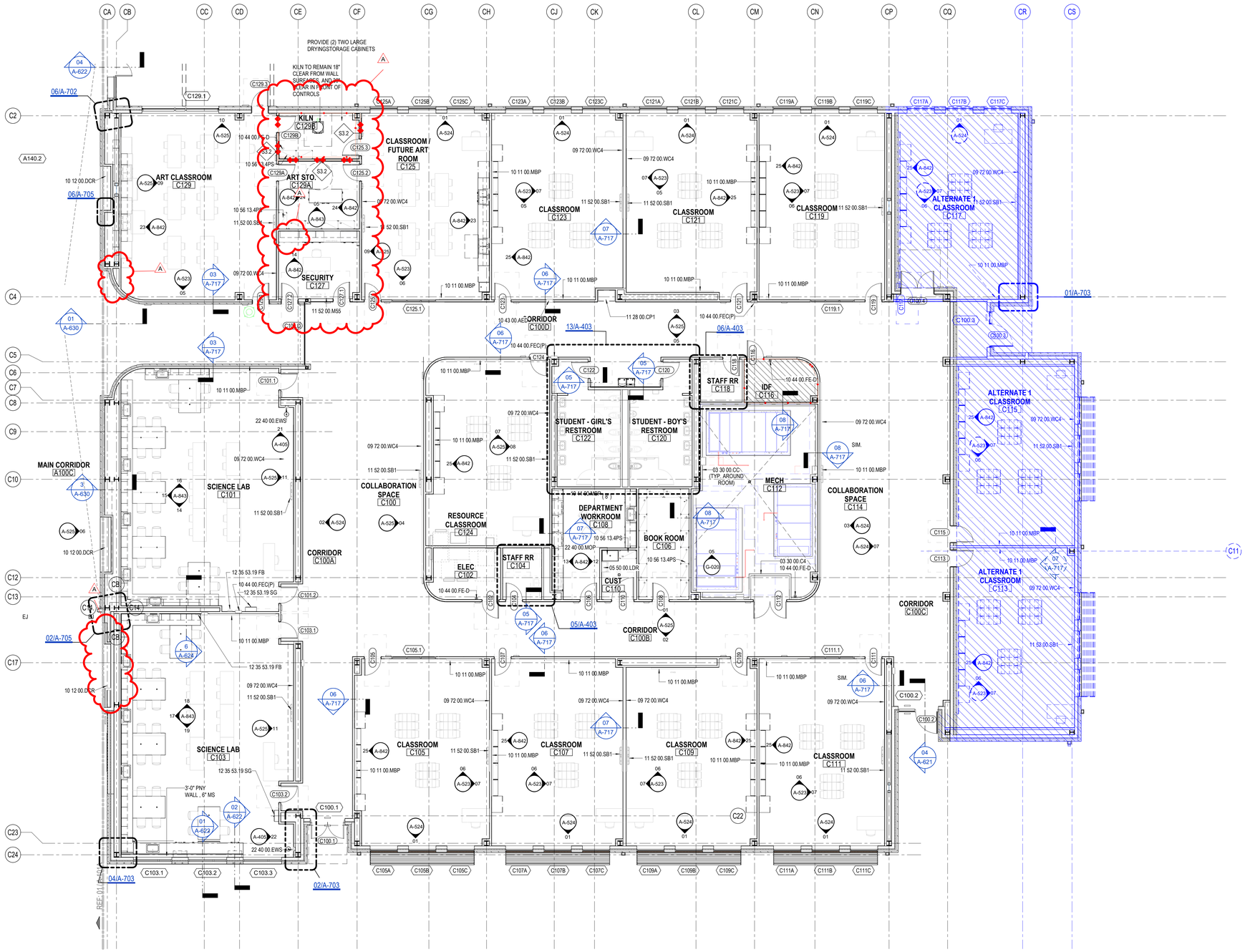
A-101A

Plot Stamp:
10/23/2025 7:36:58 PM

0"
1"

1ST FLOOR PLAN - AREA C
A-101C
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



GENERAL ARCH PLAN NOTES

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3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
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17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.C4	CAST-IN-PLACE CONCRETE CURB, 4" AT MECHANICAL, PAINT SAFETY YELLOW
03 30 00.CC	CAST-IN-PLACE CONCRETE CURB
05 50 00.LDR	[STEEL or ALUMINUM] LADDER
09 72 00.WC4	WALL COVERING TYPE 4 - MAGNETIC RECEPTIVE DRY ERASE WALLCOVERING
10 11 00.MBP	PORCELAIN-ENAMEL MARKERBOARD
10 12 00.DCR	RECESSED DISPLAY CASE
10 43 00.AED	AUTOMATED EXTERNAL DEFIBRILLATOR ([CFCI or OFCI])
10 44 00.FE-D	FIRE EXTINGUISHER, CARBON DIOXIDE
10 44 00.FEC(P)	FIRE EXTINGUISHER CABINET, PARTIALLY-RECESSED
10 56 13.4PS	FOUR POST SHELVING
11 28 00.CP1	COPIER/PRINTER (OFCI)
11 52 00.MS5	MONITOR, 55" TV
11 52 00.SB1	SMARTBOARD (CFCI)
12 35 53.19 FB	FIRE BLANKETS
12 35 53.19 SG	SAFETY GOGGLE COMPARTMENT CASES
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
22 40 00.MOP	MOP SINK, REFER TO PLUMBING

01 1ST LEVEL - FLOOR PLAN - AREA C
1/8" = 1'-0"

Plot Stamp:
10/23/2025 7:37:24 PM

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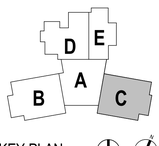


KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: TC, JM, RF
DRAWN BY: LT

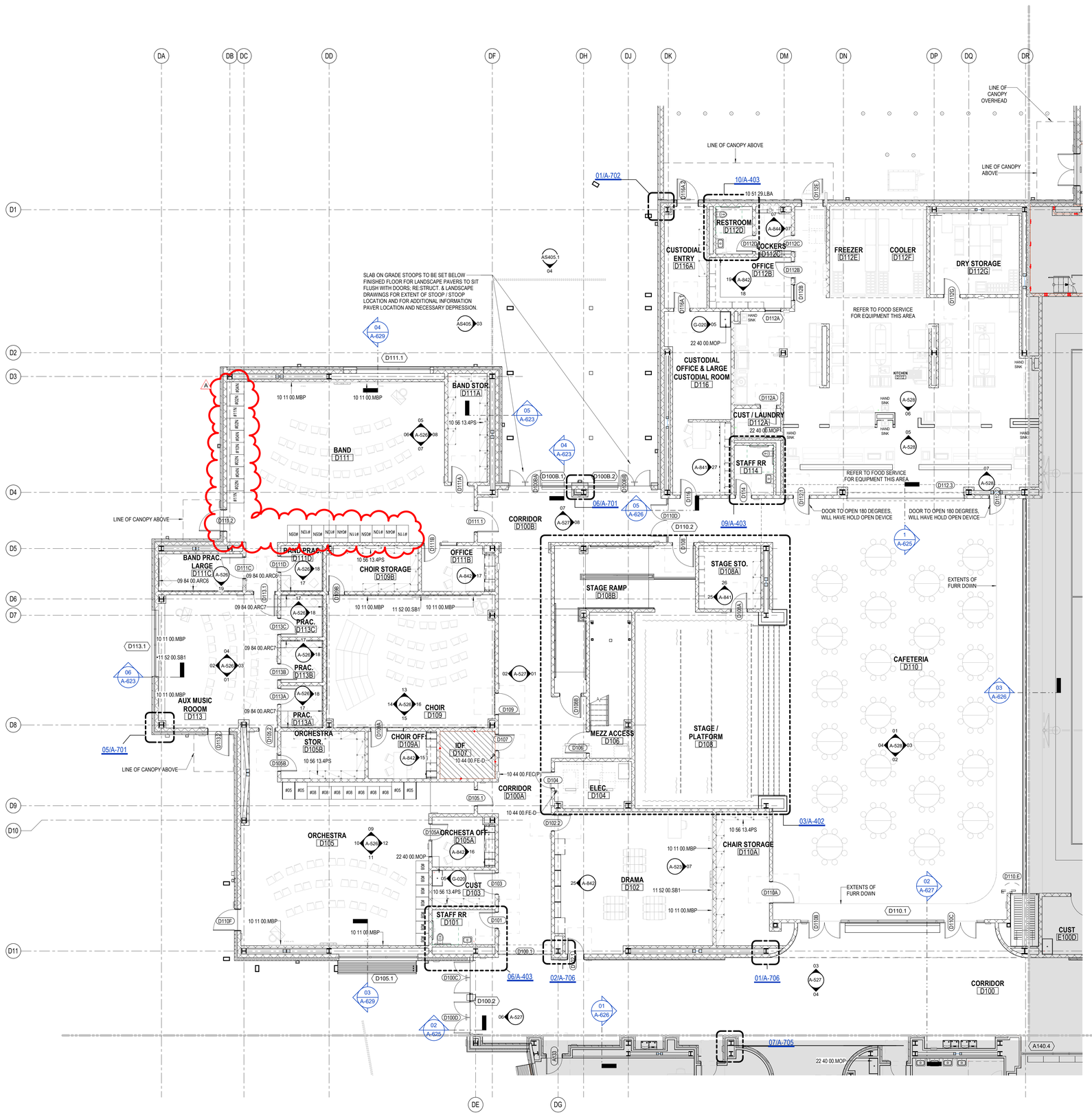
1ST FLOOR PLAN - AREA C

A-101C

0"
1"

1ST FLOOR PLAN - AREA D
A-101D
FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL



01 1ST LEVEL - FLOOR PLAN - AREA D
1/8" = 1'-0"

Plot Stamp:
10/23/2025 7:37:39 PM

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KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC6	ACOUSTIC ROOM COMPONENT TYPE 6 - WALL PANEL
09 84 00.ARC7	ACOUSTIC ROOM COMPONENT TYPE 7 - WALL PANEL
10 11 00.MBP	PORCELAIN-ENAMEL MARKERBOARD
10 44 00.FE-D	FIRE EXTINGUISHER, CARBON DIOXIDE
10 44 00.FEC(P)	FIRE EXTINGUISHER CABINET, PARTIALLY-RECESSED
10 51 29.LBA	LOCKER BENCH, ACCESSIBLE
10 56 13.4PS	FOUR POST SHELVING
11 52 00.SB1	SMARTBOARD (CFCI)
22 40 00.MOP	MOP SINK, REFER TO PLUMBING

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STRUCTURAL
KUBR STRUCTURES
T 713-840-7343
MEP/T
LEAP
T 713-343-3300
FOOD SERVICE
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BUILDING ENVELOPE
BEAM
T 713-965-0008

MIDDLE SCHOOL 8

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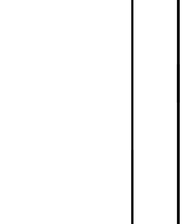
KEY PLAN NORTH: PLAN TRUE



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10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: TC, JM, RF
DRAWN BY: LT, AP

1ST FLOOR PLAN - AREA D

A-101D

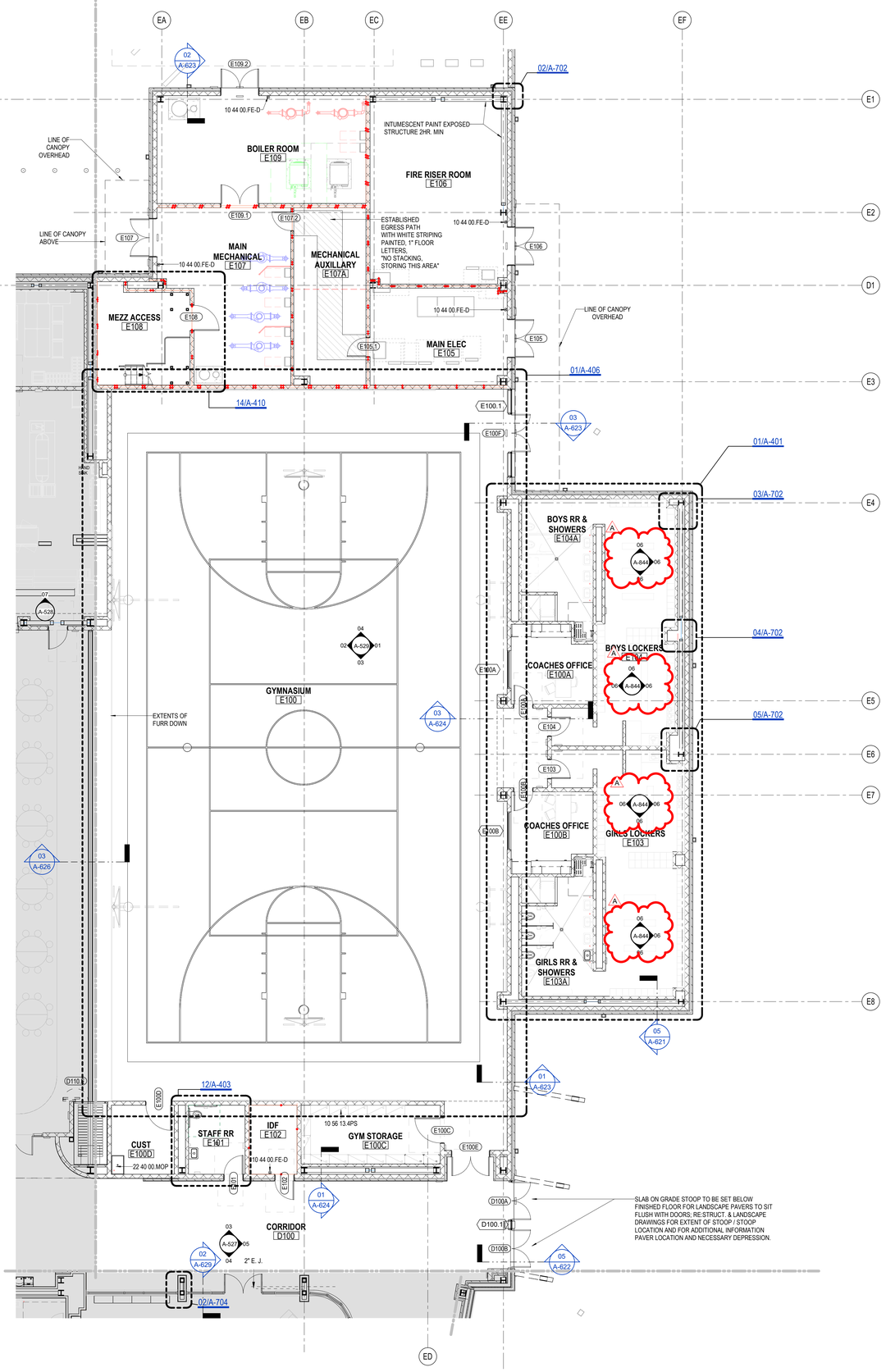
0"
1"

1ST FLOOR PLAN - AREA E

A-101E

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



01 1ST LEVEL - FLOOR PLAN - AREA E
1/8" = 1'-0"

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KEYNOTE LEGEND

NUMBER	DESCRIPTION
10 44 00.FE-D	FIRE EXTINGUISHER, CARBON DIOXIDE
10 56 13.4PS	FOUR POST SHELVING
22 40 00.MOP	MOP SINK, REFER TO PLUMBING

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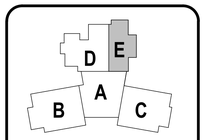

KEY PLAN

NORTH: PLAN TRUE

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10/13/2025	240541

DRAWING HISTORY

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A	Addendum 1	10.23.25

CHECKED BY: TC, JM, RF

DRAWN BY: A.POGUE

1ST FLOOR PLAN - AREA E

A-101E

Plot Stamp:
10/23/2025 7:37:51 PM

0"
1"

CEILING MATERIALS LEGEND

09 51 00.ACS1 ACOUSTICAL CEILING SYSTEM, TYPE 1 - ACP1 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2' x 2' GRID **ACP1 ACOUSTICAL CEILING PANEL, TYPE 1** - STANDARD

09 51 00.ACS3 ACOUSTICAL CEILING SYSTEM, TYPE 3 - ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID **ACP3 ACOUSTICAL CEILING PANEL, TYPE 3** - HIGH NRC

09 51 00.ACS4 ACOUSTICAL CEILING SYSTEM, TYPE 4 - ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID **ACP3 ACOUSTICAL CEILING PANEL, TYPE 3** - MOISTURE RESISTANT

09 54 26.WCS# WOOD CEILING SYSTEM

09 21 16.GBD GYPSUM BOARD

09 24 00.PSD CEMENT PLASTER SOFFIT - DASH FINISH

07 42 13.SFT1 METAL SOFFIT PANEL SYSTEM

CEILING FIXTURE LEGEND

2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*

2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*

1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*

SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*

RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*

8" RECESSED CAN LIGHT *RE: ELECTRICAL*

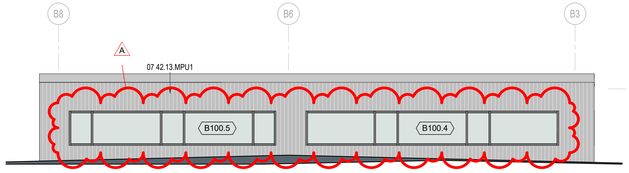
PROJECTOR

EXHAUST GRILLE / REGISTER *RE: MECHANICAL*

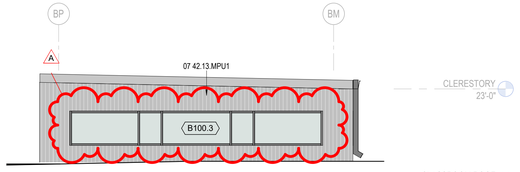
LINEAR FIXTURE *RE: ELECTRICAL RECESS AND PENDANT LOCATIONS*

KEYNOTE LEGEND

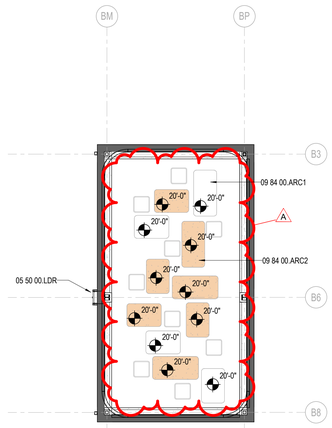
NUMBER	DESCRIPTION
05 50 00.LDR	[STEEL or ALUMINUM] LADDER
07 42 13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.GTR	GUTTER
07 71 23.DSP	" H X " D METAL DOWNSPOUT
07 72 33.RS1	ROOF HATCH
09 21 16.GBD	GYPSUM BOARD, STANDARD 5/8" TYPE X
09 84 00.ARC1	ACOUSTIC ROOM COMPONENT TYPE 1 - CEILING-HUNG RECTANGULAR WITH ROUND CORNERS
09 84 00.ARC2	ACOUSTIC ROOM COMPONENT TYPE 2 - CEILING-HUNG RECTANGULAR WITH ROUND CORNERS
09 84 00.ARC3	ACOUSTIC ROOM COMPONENT TYPE 3 - CEILING-HUNG RECTANGULAR WITH ROUND CORNERS

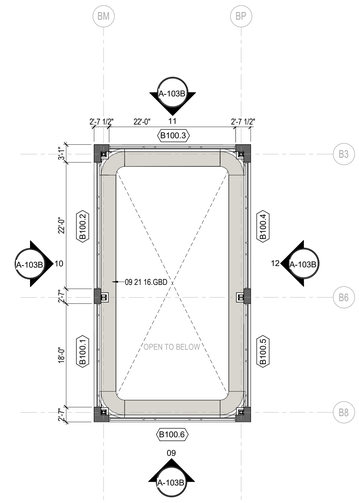


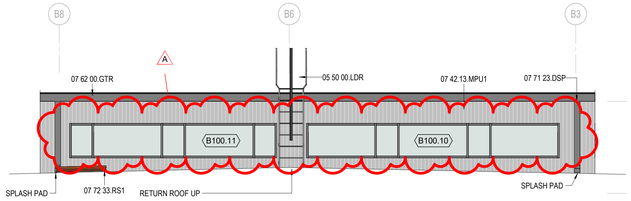
12 CLERESTORY - EAST ELEVATION - AREA B2
3/16" = 1'-0"



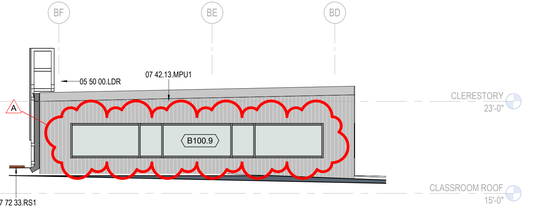
11 CLERESTORY - NORTH ELEVATION - AREA B2
3/16" = 1'-0"







10 CLERESTORY - WEST ELEVATION - AREA B2
3/16" = 1'-0"



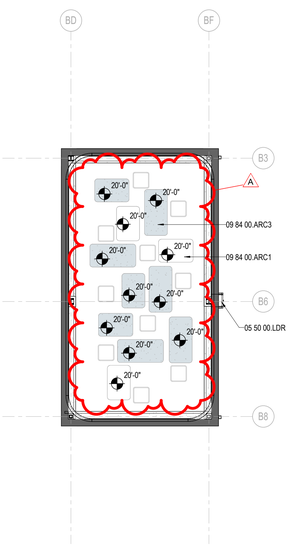
09 CLERESTORY - SOUTH ELEVATION - AREA B2
3/16" = 1'-0"

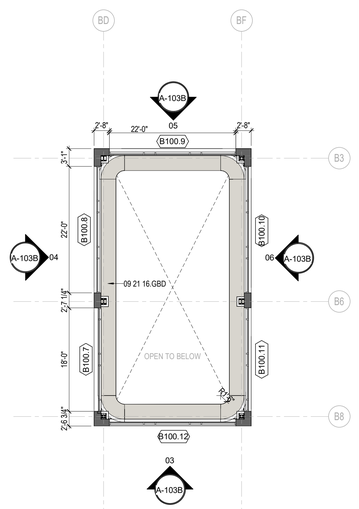
08 CLERESTORY CEILING PLAN - AREA B2
3/32" = 1'-0"

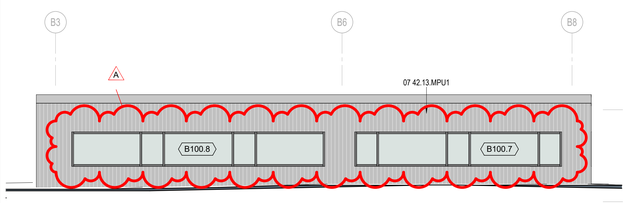
07 CLERESTORY PLAN - AREA B2
3/32" = 1'-0"

06 CLERESTORY - EAST ELEVATION - AREA B3
3/16" = 1'-0"

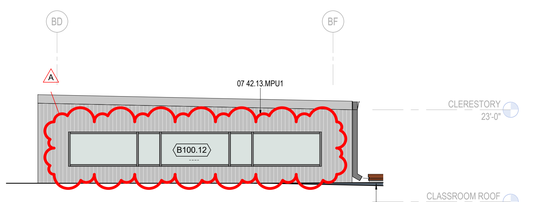
05 CLERESTORY - NORTH ELEVATION - AREA B3
3/16" = 1'-0"







04 CLERESTORY - WEST ELEVATION - AREA B3
3/16" = 1'-0"



03 CLERESTORY - SOUTH ELEVATION - AREA B3
3/16" = 1'-0"

02 CLERESTORY CEILING PLAN - AREA B3
3/32" = 1'-0"

01 CLERESTORY PLAN - AREA B3
3/32" = 1'-0"

CLERESTORY PLAN & ELEVATIONS - AREA B

A-103B

FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALLEN INC
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LANDSCAPE
EDGELAND
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T 281-556-2303
BUILDING ENVELOPE
BEAM
T 713-965-0008

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT MICHAEL HOUSTON 28012 STATE OF TEXAS
2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

A-103B

Plot Stamp:
10/23/2025 7:38:02 PM

0"
1"

CLERESTORY PLAN & ELEVATIONS - AREA C

A-103C

FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL

CEILING MATERIALS LEGEND

09 51 00.ACS1 ACOUSTICAL CEILING SYSTEM, TYPE 1 -
ACP1 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2' x 2' GRID
ACP1 ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD

09 51 00.ACS3 ACOUSTICAL CEILING SYSTEM, TYPE 3 -
ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC

09 51 00.ACS4 ACOUSTICAL CEILING SYSTEM, TYPE 4 -
ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - MOISTURE RESISTANT

09 54 26.WCS#
WOOD CEILING SYSTEM

09 21 16.GBD
GYPSUM BOARD

09 24 00.PSD
CEMENT PLASTER SOFFIT - DASH FINISH

07 42 13.SFT1
METAL SOFFIT PANEL SYSTEM

CEILING FIXTURE LEGEND

2' x 2' RECESSED LIGHT FIXTURE
RE: ELECTRICAL

2' x 2' RECESSED LIGHT FIXTURE
RE: ELECTRICAL

1' x 4' RECESSED LIGHT FIXTURE
RE: ELECTRICAL

SUPPLY AIR CEILING DIFFUSER
RE: MECHANICAL

RETURN AIR GRILLE / REGISTER
RE: MECHANICAL

8" RECESSED CAN LIGHT
RE: ELECTRICAL

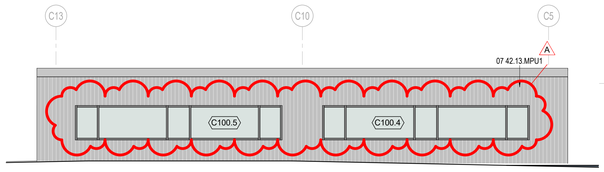
PROJECTOR

EXHAUST GRILLE / REGISTER
RE: MECHANICAL

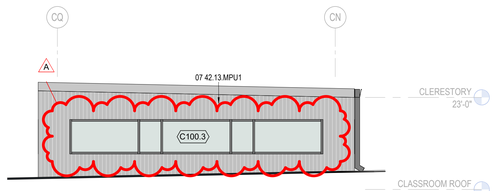
LINEAR FIXTURE
RE: ELECTRICAL
RECESS AND PENDANT LOCATIONS

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 50 00.LDR	[STEEL or ALUMINUM] LADDER
07 42 13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
09 21 16.GBD	GYPSUM BOARD, STANDARD 5/8" TYPE X
09 84 00.ARC1	ACOUSTIC ROOM COMPONENT TYPE 1 - CEILING-HUNG RECTANGULAR WITH ROUND CORNERS
09 84 00.ARC2	ACOUSTIC ROOM COMPONENT TYPE 2 - CEILING-HUNG RECTANGULAR WITH ROUND CORNERS
09 84 00.ARC3	ACOUSTIC ROOM COMPONENT TYPE 3 - CEILING-HUNG RECTANGULAR WITH ROUND CORNERS



12 CLERESTORY - EAST ELEVATION - AREA C3
3/16" = 1'-0"



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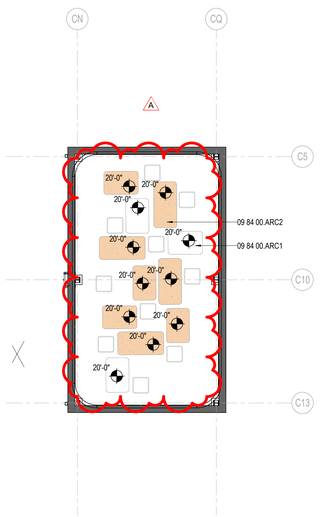
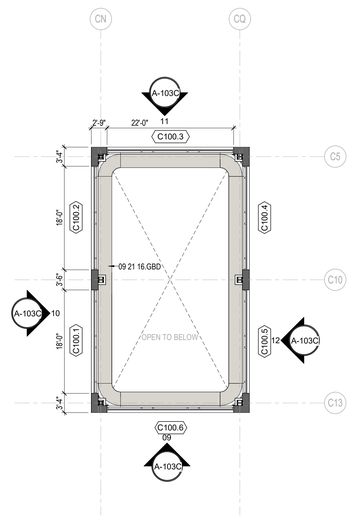
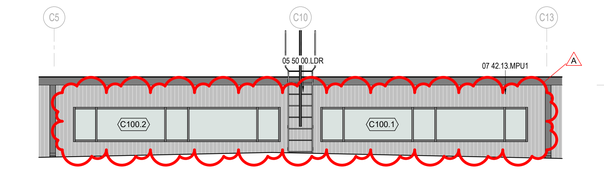
3/16" = 1'-0"



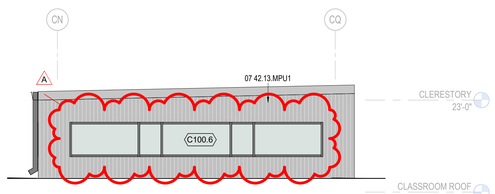
08 CLERESTORY CEILING PLAN - AREA C3
3/32" = 1'-0"



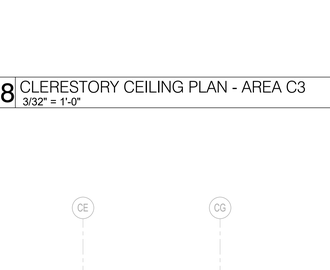
07 CLERESTORY PLAN - AREA C3
3/32" = 1'-0"



10 CLERESTORY - WEST ELEVATION - AREA C3
3/16" = 1'-0"



09 CLERESTORY - SOUTH ELEVATION - AREA C3
3/16" = 1'-0"



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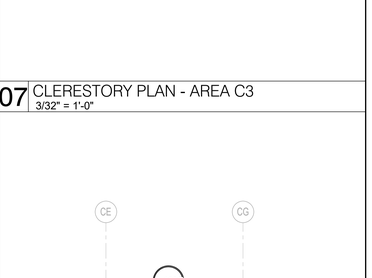
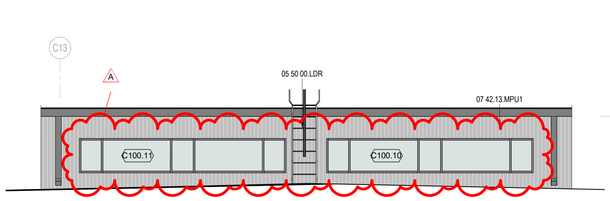
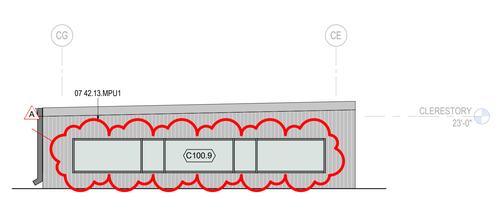
3/32" = 1'-0"



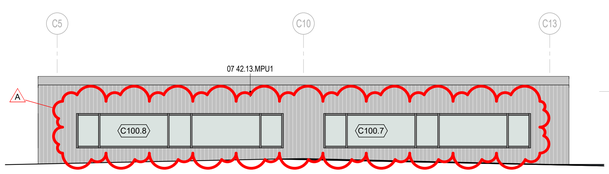
01 CLERESTORY PLAN - AREA C2
3/32" = 1'-0"



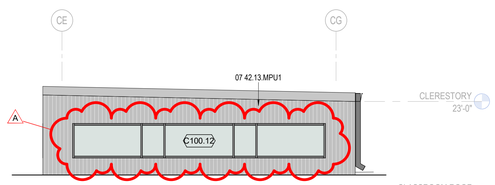
06 CLERESTORY - EAST ELEVATION - AREA C2
3/16" = 1'-0"



05 CLERESTORY - NORTH ELEVATION - AREA C2
3/16" = 1'-0"



04 CLERESTORY - WEST ELEVATION - AREA C2
3/16" = 1'-0"



03 CLERESTORY - SOUTH ELEVATION - AREA C2
3/16" = 1'-0"

02 CLERESTORY CEILING PLAN - AREA C2
3/32" = 1'-0"

01 CLERESTORY PLAN - AREA C2
3/32" = 1'-0"

PBK

ARCHITECT
PBK Architects, Inc.
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11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALLEN INC
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T 281-556-2303
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BEAM
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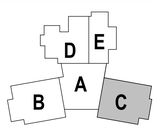
MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

CLERESTORY PLAN & ELEVATIONS - AREA C

A-103C

Plot Stamp:
10/23/2025 7:38:10 PM

ISSUE FOR PROPOSAL

1ST FLOOR DIMENSION PLAN - AREA A

A-131A

FOR BLUEBEAM LABELING/DOCR:

0"

1"

06 1ST LEVEL - DIMENSION PLAN - AREA A
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO FLOOR FINISH PLAN AND/OR SCHEDULE SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE F3 & M4 U.N.O. REFER TO DIMENSIONAL PLANS FOR WALL TAGS.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3_M4_ U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
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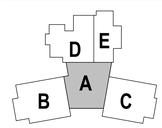
BGM
T 713-965-9099

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

1ST FLOOR DIMENSION PLAN - AREA A

A-131A A

Plot Stamp:
10/23/2025 10:22:54 PM

ISSUE FOR PROPOSAL

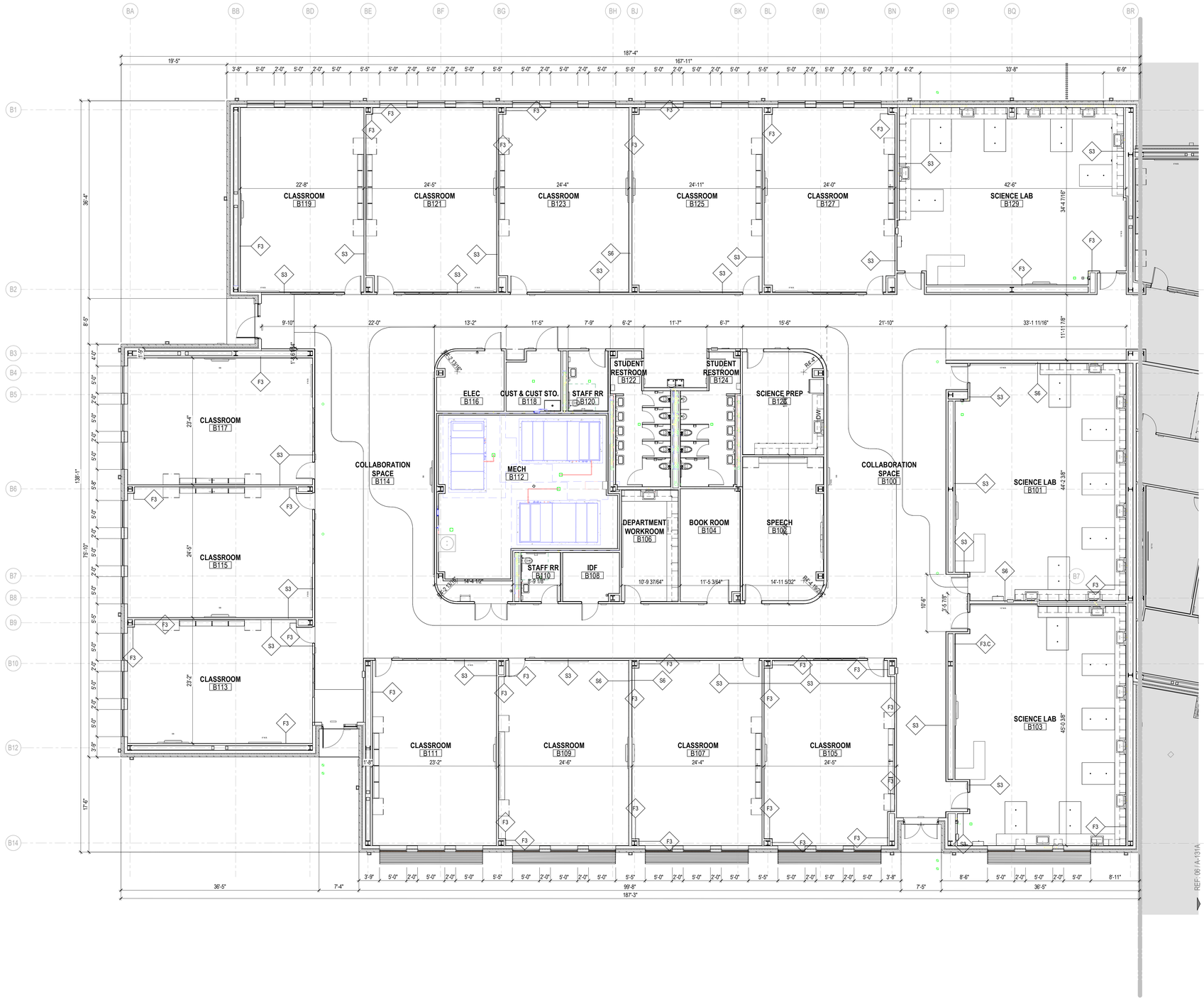
1ST FLOOR DIMENSION PLAN - AREA B

A-131B

FOR BLUEBEAM LABELING/DOCR:

0"

1"



06 1ST LEVEL - DIMENSION PLAN - AREA B
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE F3 & M4 U.N.O. REFER TO DIMENSIONAL PLANS FOR WALL TAGS.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3, M4, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
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FOOD SERVICE
TBD
T 281-556-2300
BUILDING ENVELOPE
BEAM
T 713-965-0608

MIDDLE SCHOOL 8

3820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

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LAMAR CISD
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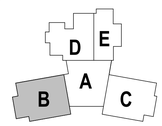


KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

1ST FLOOR DIMENSION PLAN - AREA B

A-131B

Plot Stamp:
10/23/2025 10:23:05 PM

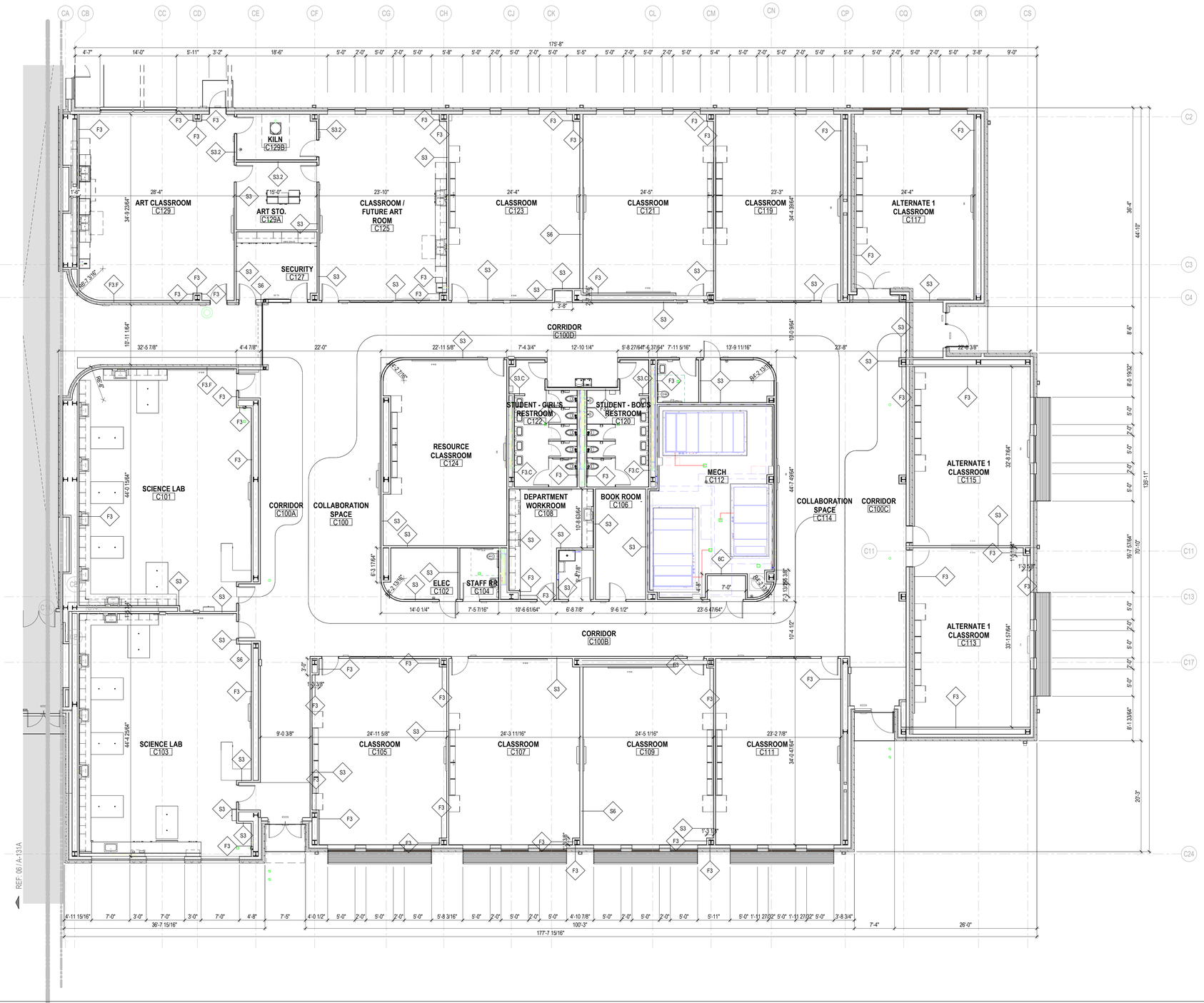
ISSUE FOR PROPOSAL

1ST FLOOR DIMENSION PLAN - AREA C

A-131C

FOR BLUEBEAM LABELING/DOCR:

0"
1"



06 1ST LEVEL - DIMENSION PLAN - AREA C
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

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3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE F3 & M4 U.N.O. REFER TO DIMENSIONAL PLANS FOR WALL TAGS.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3_M4_ U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

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KALUZA INC
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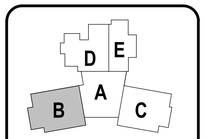
LANDSCAPE
EDGELAND
T 713-660-0995
STRUCTURAL
KUBR STRUCTURES
T 713-840-7343
MEP/T
LEAP
T 713-540-3300
FOOD SERVICE
T 281-556-2303
BUILDING ENVELOPE
BEAM
T 713-965-0608

MIDDLE SCHOOL 8
32920 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: Author

1ST FLOOR DIMENSION PLAN - AREA C

A-131C A

Plot Stamp:
10/23/2025 10:23:17 PM

ISSUE FOR PROPOSAL

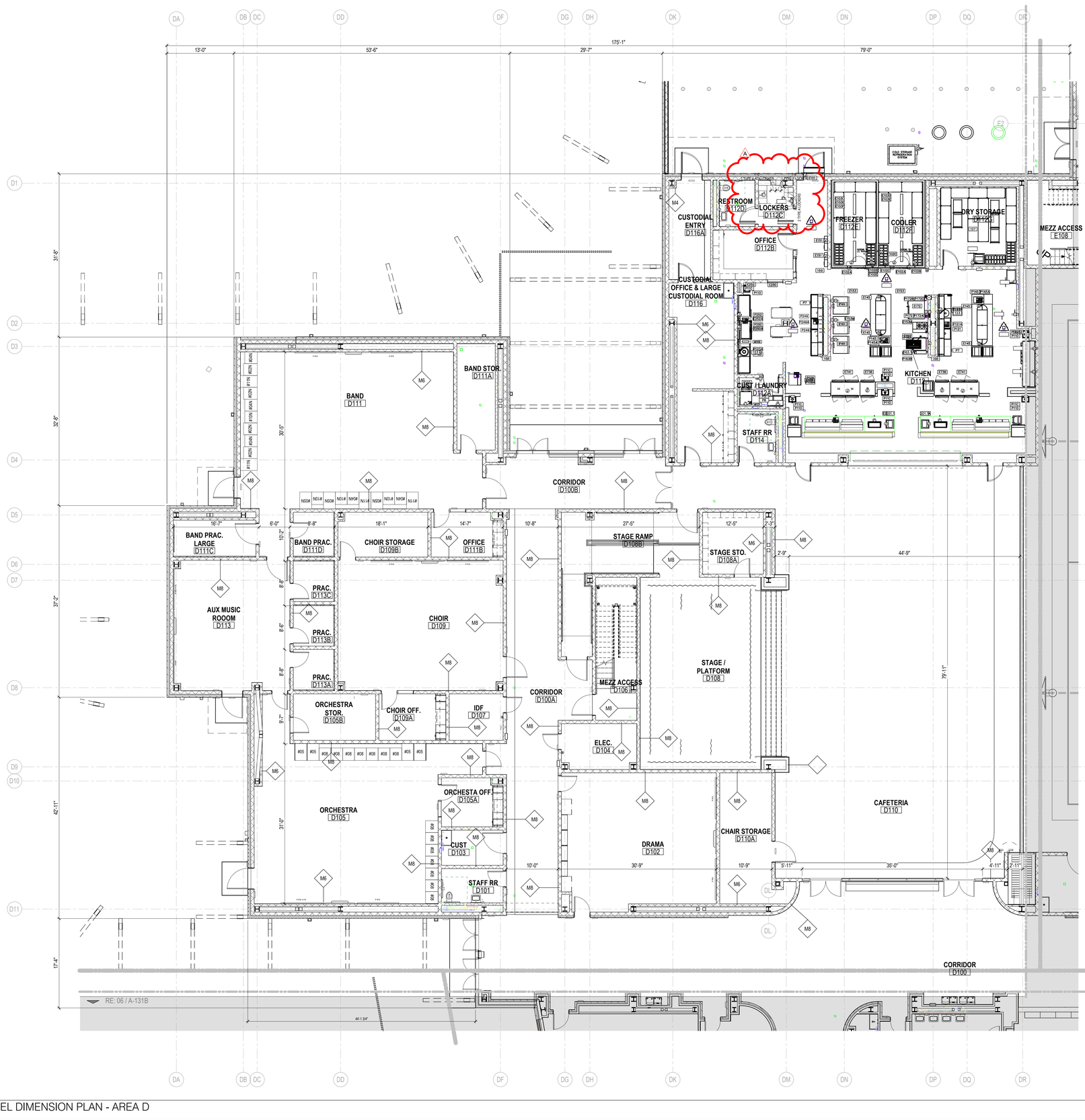
1ST FLOOR DIMENSION PLAN - AREA D

A-131D

FOR BLUEBEAM LABELING/OCR:

0"

1"



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KEYNOTE LEGEND

NUMBER	DESCRIPTION

06 1ST LEVEL DIMENSION PLAN - AREA D
1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
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TX Firm: BR 1608

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KALLOS INC
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BUILDING ENVELOPE
BEAM
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MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
MICHAEL HOUSE
28012
STATE OF TEXAS
2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: Author

1ST FLOOR DIMENSION PLAN - AREA D

A-131D A

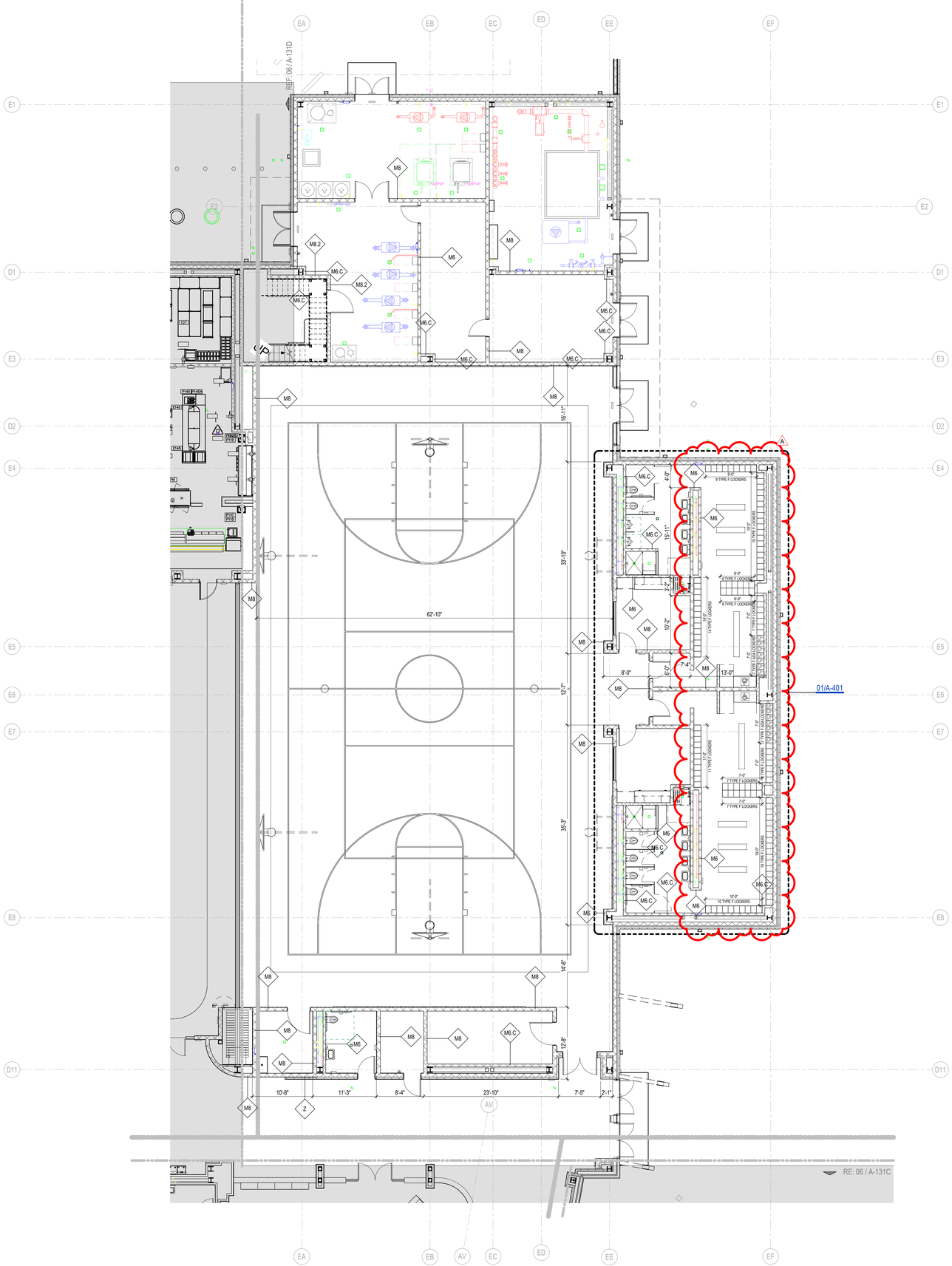
Plot Stamp:
10/23/2025 10:23:56 PM

1ST FLOOR DIMENSION PLAN - AREA E

A-131E

FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL



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32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

D E A B C

KEY PLAN NORTH: PLAN TRUE

REGISTERED ARCHITECT MICHAEL HOUY 28017 STATE OF TEXAS
2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: Author

1ST FLOOR DIMENSION PLAN - AREA E

A-131E A

Plot Stamp:
10/23/2025 10:24:30 PM

PROPOSAL

ISSUE FOR PROPOSAL

1ST FLOOR CEILING PLAN - AREA A

A-201A

FOR BLUEBEAM LABELING/DOCR:

0"

1"

01 1ST LEVEL - CEILING PLAN - AREA A
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHTS ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT 10'-0" UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT 10'-0" A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.
17. ALL STRUCTURAL COMPONETS ABOVE CEILING ARE TO BE SPRAYED WITH 1 1/2" K-13 ACOUSTICAL INSULATION (RE: SPEC). REMAINDER OF ABOVE-CEILING SURFACES TO BE PAINTED BLACK

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 95 13.EJC3	INTERIOR, WALL/CEILING, THERMAL-MOVEMENT JOINT COVER
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING

CEILING MATERIALS LEGEND

09 51 00.ACS1 ACOUSTICAL CEILING SYSTEM, TYPE 1 -
ACP1 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2' x 2' GRID
ACP1 ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD

09 51 00.ACS3 ACOUSTICAL CEILING SYSTEM, TYPE 3 -
ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC

09 51 00.ACS4 ACOUSTICAL CEILING SYSTEM, TYPE 4 -
ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - MOISTURE RESISTANT

09 21 16.GBD
GYPSUM BOARD

09 24 00.PSD
CEMENT PLASTER SOFFIT - DASH FINISH

07 42 13.SFT1
METAL SOFFIT PANEL SYSTEM

09 54 26.WCS1
WOOD CEILING SYSTEM

09 21 16.GBD
GYPSUM BOARD - ORANGE

09 21 16.GBD
GYPSUM BOARD - DARK GREY

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 8" RECESSED CAN LIGHT *RE: ELECTRICAL*
- PROJECTOR
- LINEAR FIXTURE *RE: ELECTRICAL RECESS AND PENDANT LOCATIONS*

PBK

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DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT
DRAWN BY: JB

1ST FLOOR CEILING PLAN - AREA A

A-201A

Plot Stamp:
10/23/2025 7:39:54 PM

ISSUE FOR PROPOSAL

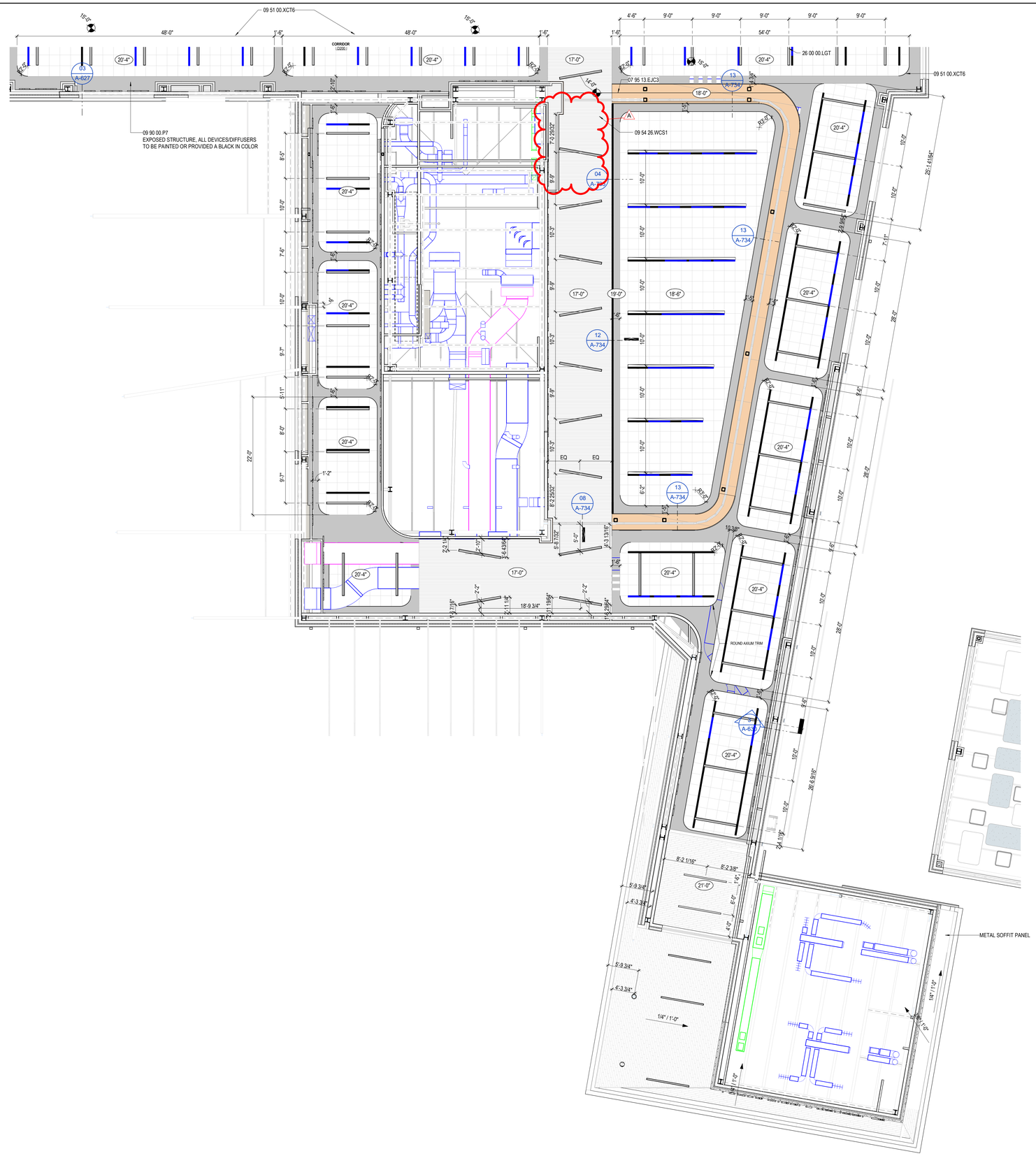
2ND FLOOR CEILING PLAN - AREA A

A-202A

FOR BLUEBEAM LABELING/DOCR:

0"

1"



01 2ND LEVEL - CEILING PLAN - AREA A
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17. ALL STRUCTURAL COMPONETS ABOVE CEILING ARE TO BE SPRAYED WITH 1 1/2" K-13 ACOUSTICAL INSULATION (RE: SPEC). REMAINDER OF ABOVE-CEILING SURFACES TO BE PAINTED BLACK

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 95 13.EJC3	INTERIOR, WALL/CEILING, THERMAL-MOVEMENT JOINT COVER
09 51 00.XCT6	EXTRUDED ALUMINUM CEILING TRIM, [6"] HIGH
09 54 26.WCS1	WOOD CEILING AND WALL SYSTEM, TYPE 1 - 1100 CROSS PIECE GRILLE 1123-5
09 90 00.P7	PAINT TYPE 7 - BLACK PAINT
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL

CEILING MATERIALS LEGEND

09 51 00.ACS1 ACOUSTICAL CEILING SYSTEM, TYPE 1 - ACP1 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2' x 2' GRID
ACP1 ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD

09 51 00.ACS3 ACOUSTICAL CEILING SYSTEM, TYPE 3 - ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC

09 51 00.ACS4 ACOUSTICAL CEILING SYSTEM, TYPE 4 - ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - MOISTURE RESISTANT

09 21 16.GBD
GYPSUM BOARD

09 24 00.PSD
CEMENT PLASTER SOFFIT - DASH FINISH

07 42 13.SFT1
METAL SOFFIT PANEL SYSTEM

09 54 26.WCS1
WOOD CEILING SYSTEM

09 21 16.GBD
GYPSUM BOARD - ORANGE

09 21 16.GBD
GYPSUM BOARD - DARK GREY

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 8" RECESSED CAN LIGHT *RE: ELECTRICAL*
- PROJECTOR
- LINEAR FIXTURE *RE: ELECTRICAL RECESS AND PENDANT LOCATIONS*

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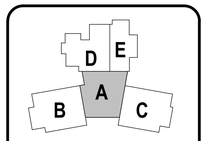
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

2ND FLOOR CEILING PLAN - AREA A

A-202A

Plot Stamp:
10/23/2025 7:40:02 PM

0"
1"

2ND FLOOR CEILING PLAN - AREA D

A-202D

FOR BLUEBEAM LABELING/OCR:

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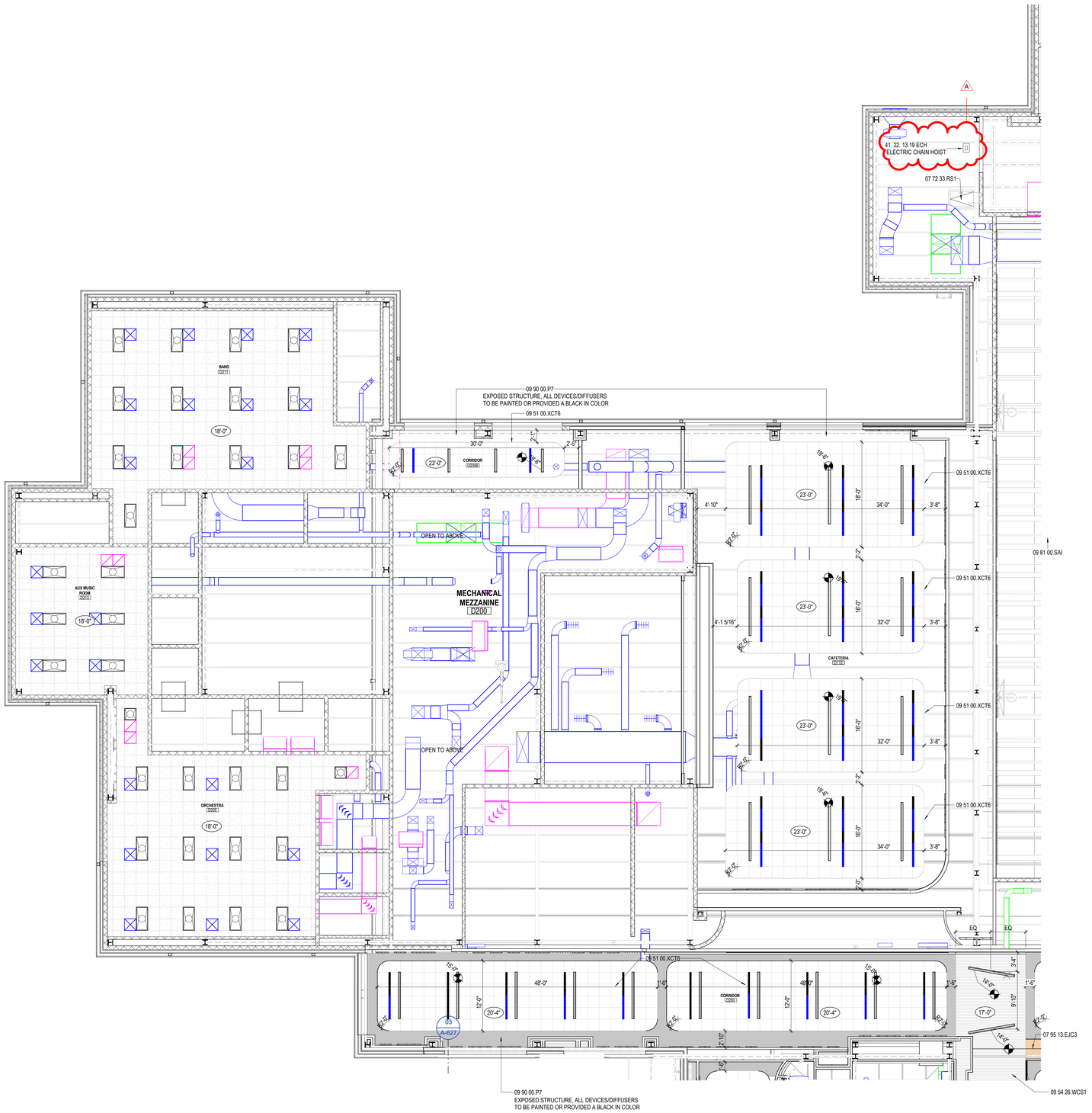

01 2ND LEVEL - CEILING PLAN - AREA D
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHTS ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT 10'-0" UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT 10'-0" A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.
17. ALL STRUCTURAL COMPONETS ABOVE CEILING ARE TO BE SPRAYED WITH 1 1/2" K-13 ACOUSTICAL INSULATION (RE: SPEC). REMAINDER OF ABOVE-CEILING SURFACES TO BE PAINTED BLACK

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 72 33.RS1	ROOF HATCH
07 95 13.EJC3	INTERIOR, WALL/CEILING, THERMAL-MOVEMENT JOINT COVER
09 51 00.XCT6	EXTRUDED ALUMINUM CEILING TRIM, [6"] HIGH
09 54 26.WCS1	WOOD CEILING AND WALL SYSTEM. TYPE 1 - 1100 CROSS PIECE GRILLE 1123-5
09 81 00.SAI	SPRAY-APPLIED ACOUSTIC INSULATION
09 90 00.P7	PAINT TYPE 7 - BLACK PAINT

CEILING MATERIALS LEGEND

09 51 00.ACS1 ACOUSTICAL CEILING SYSTEM, TYPE 1 -
ACP1 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2' x 2' GRID
ACP1 ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD

09 51 00.ACS3 ACOUSTICAL CEILING SYSTEM, TYPE 3 -
ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC

09 51 00.ACS4 ACOUSTICAL CEILING SYSTEM, TYPE 4 -
ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - MOISTURE RESISTANT

09 21 16.GBD
GYPSUM BOARD

09 24 00.PSD
CEMENT PLASTER SOFFIT - DASH FINISH

07 42 13.SFT1
METAL SOFFIT PANEL SYSTEM

09 54 26.WCS1
WOOD CEILING SYSTEM

09 21 16.GBD
GYPSUM BOARD - ORANGE

09 21 16.GBD
GYPSUM BOARD - DARK GREY

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 8" RECESSED CAN LIGHT *RE: ELECTRICAL*
- PROJECTOR
- LINEAR FIXTURE *RE: ELECTRICAL RECESS AND PENDANT LOCATIONS*

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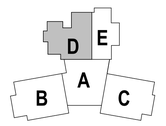

KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: Author

2ND FLOOR CEILING PLAN - AREA D

A-202D

Plot Stamp:
10/23/2025 7:40:09 PM

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2ND FLOOR CEILING PLAN - AREA E

A-202E

FOR BLUEBEAM LABELING/OCR:

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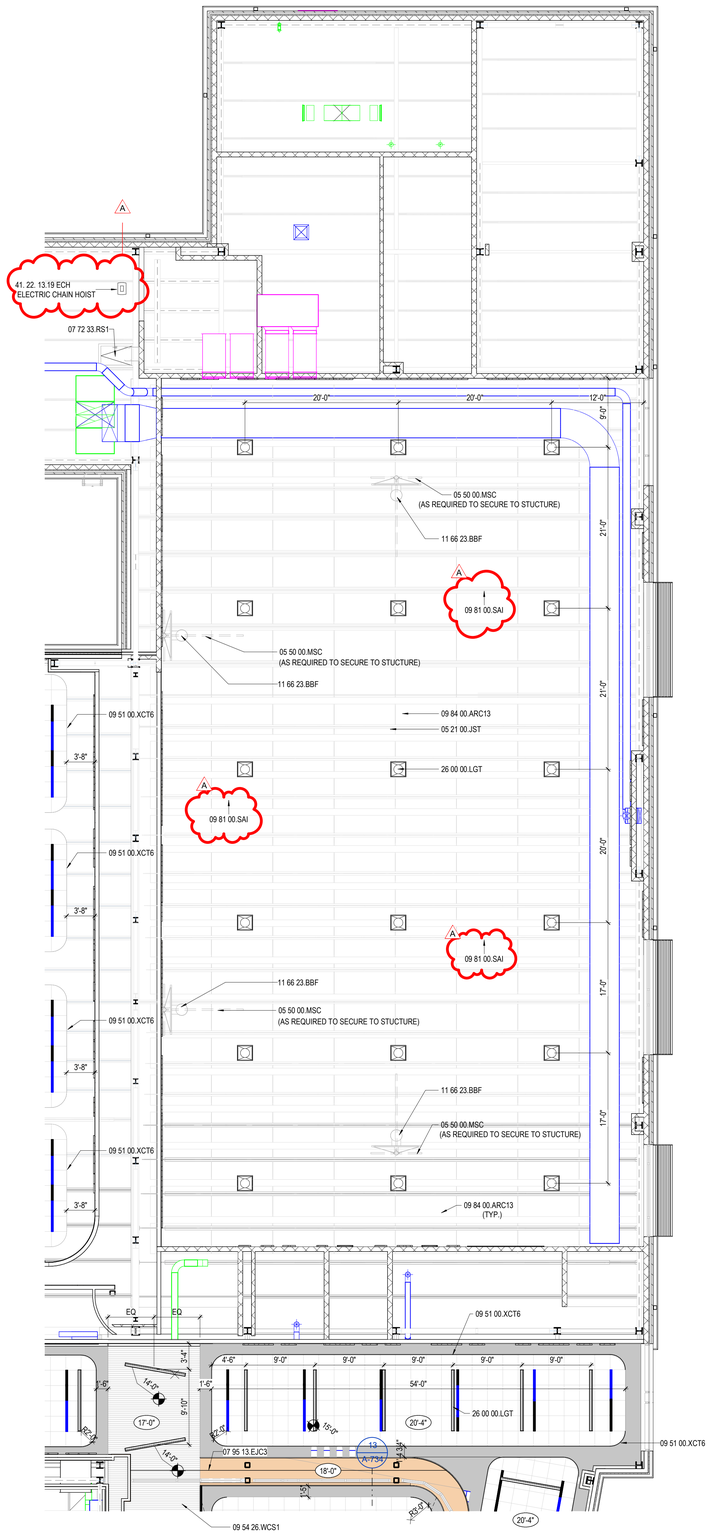

01 2ND LEVEL - CEILING PLAN - AREA E
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHTS ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT 10'-0" UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT 10'-0" A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.
17. ALL STRUCTURAL COMPONETS ABOVE CEILING ARE TO BE SPRAYED WITH 1 1/2" K-13 ACOUSTICAL INSULATION (RE: SPEC). REMAINDER OF ABOVE-CEILING SURFACES TO BE PAINTED BLACK

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 21 00.JST	STEEL JOIST, REFER TO STRUCTURAL
05 50 00.MSC	MISCELLANEOUS STEEL
07 72 33.RS1	ROOF HATCH
07 95 13.EJC3	INTERIOR, WALL/CEILING, THERMAL-MOVEMENT JOINT COVER
09 51 00.XCT6	EXTRUDED ALUMINUM CEILING TRIM, [6"] HIGH
09 54 26.WCS1	WOOD CEILING AND WALL SYSTEM, TYPE 1 - 1100 CROSS PIECE GRILLE 1123-5
09 81 00.SAI	SPRAY-APPLIED ACOUSTIC INSULATION
09 84 00.ARC13	ACOUSTIC ROOM COMPONENT TYPE 13 - CEMENTITIOUS WOOD FIBER
11 66 23.BBF	BASKETBALL GOAL ASSEMBLY, OVERHEAD SUPPORTED, FOLDING
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL

CEILING MATERIALS LEGEND

09 51 00.ACS1 ACOUSTICAL CEILING SYSTEM, TYPE 1 - ACP1 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2' x 2' GRID
ACP1 ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD

09 51 00.ACS3 ACOUSTICAL CEILING SYSTEM, TYPE 3 - ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC

09 51 00.ACS4 ACOUSTICAL CEILING SYSTEM, TYPE 4 - ACP 3 IN WHITE W/EXPOSED, WHITE, 15/16" STEEL 2'X2' GRID
ACP3 ACOUSTICAL CEILING PANEL, TYPE 3 - MOISTURE RESISTANT

09 21 16.GBD
GYPSUM BOARD

09 24 00.PSD
CEMENT PLASTER SOFFIT - DASH FINISH

07 42 13.SFT1
METAL SOFFIT PANEL SYSTEM

09 54 26.WCS1
WOOD CEILING SYSTEM

09 21 16.GBD
GYPSUM BOARD - ORANGE

09 21 16.GBD
GYPSUM BOARD - DARK GREY

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 8" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- PROJECTOR
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- LINEAR FIXTURE *RE: ELECTRICAL RECESS AND PENDANT LOCATIONS*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*

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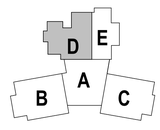

KEY PLAN NORTH: PLAN TRUE

2025/10/13

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LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: Author

2ND FLOOR CEILING PLAN - AREA E

A-202E

Plot Stamp:
10/23/2025 7:40:14 PM

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ENLARGED FLOOR PLANS

A-401

FOR BLUEBEAM LABELING/DOOR:

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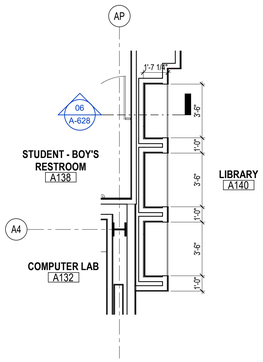
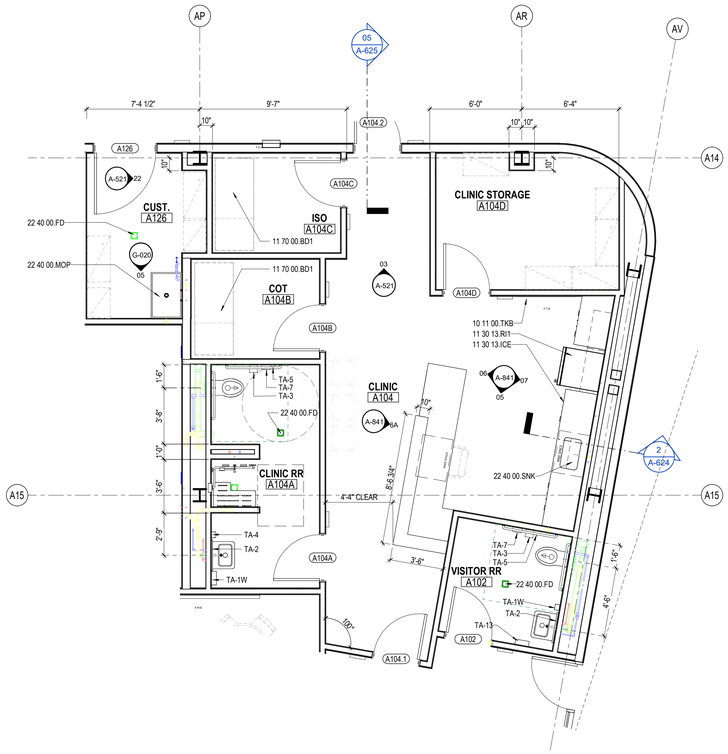
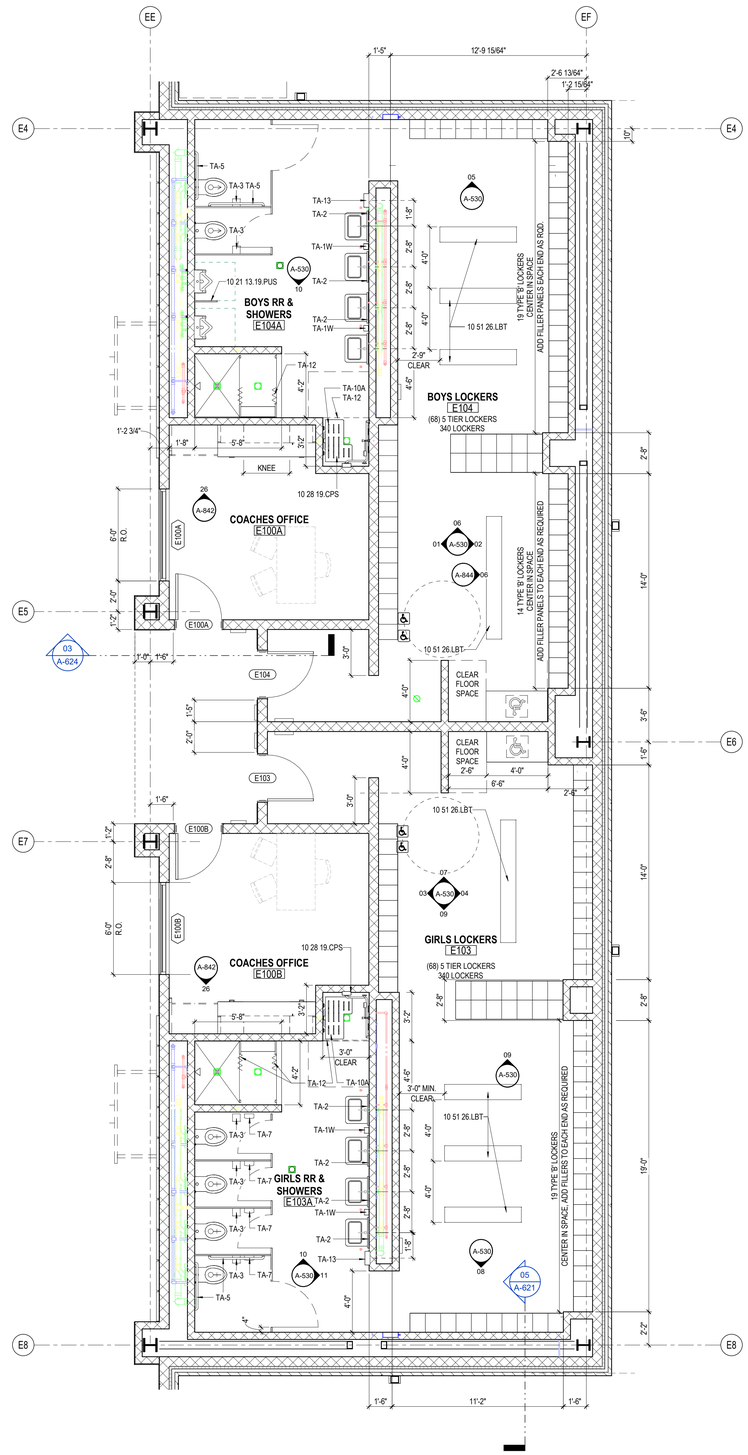


03 ENLARGED FLOOR PLAN LIBRARY READING NOOKS
1/4" = 1'-0"



02 ENLARGED FLOOR PLAN NURSE'S OFFICE
1/4" = 1'-0"



01 LOCKER ROOMS - AREA E
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
10 11 00.TKB	TACKBOARD
10 21 13.19.PUS	WALL-MOUNTED PLASTIC URINAL SCREEN
10 28 19.CPS	CAST POLYMER SHOWER SURROUND
10 51 26.LBT	LOCKER BENCH, TYPICAL
11 30 13.ICE	UNDERCOUNTER ICEMAKER/BIN
11 30 13.RI1	REFRIGERATOR WITH ICE MAKER (OFOI)
11 70 00.BD1	PATIENT BED, CLINIC
22 40 00.FD	FLOOR DRAIN, REFER TO PLUMBING
22 40 00.MOP	MOP SINK, REFER TO PLUMBING
22 40 00.SNK	SINK, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL MOUNTED, TYPICAL (OFOI)
TA-2	LAVATORY MIRROR, TYPICAL
TA-3	TOILET PAPER DISPENSER, TYPICAL (OFOI)
TA-4	PAPER TOWEL DISPENSER, TYPICAL (OFOI)
TA-5	GRAB BAR, AT WHEELCHAIR-ACCESSIBLE WATER CLOSET, TYPICAL
TA-7	SANITARY NAPKIN DISPOSAL, TYPICAL (OFOI)
TA-10A	FOLDING BENCH, ADULT HEIGHT
TA-12	SHOWER CURTAINS, RODS, AND HOOKS, TYPICAL
TA-13	ELECTRIC HAND DRYER, TYPICAL

NOTES:
1. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
2. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS.
4. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT.
5. ALIGN MIRROR ON CENTER OF LAVATORY.
6. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER.

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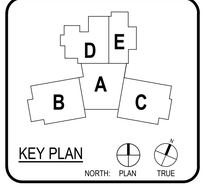

KEY PLAN
NORTH: PLAN TRUE

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LAMAR CONSOLIDATED ISD

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DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: TC, JM, RF

DRAWN BY: AP, LT, KM

ENLARGED FLOOR PLANS

A-401 A

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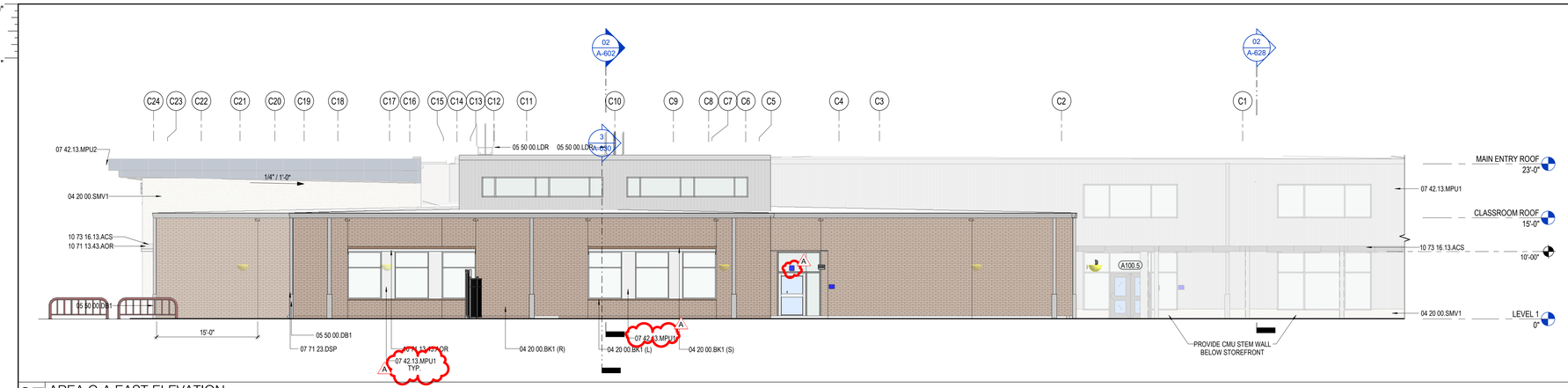
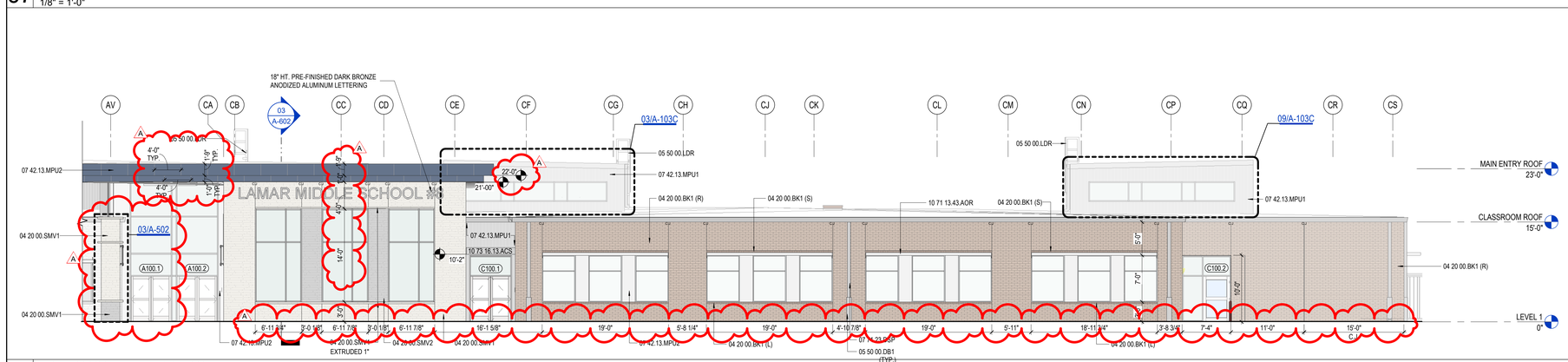
A-502

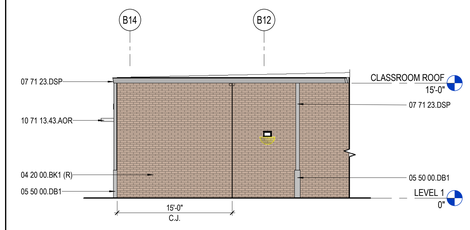
FOR BLUEBEAM LABELING/DOOR:



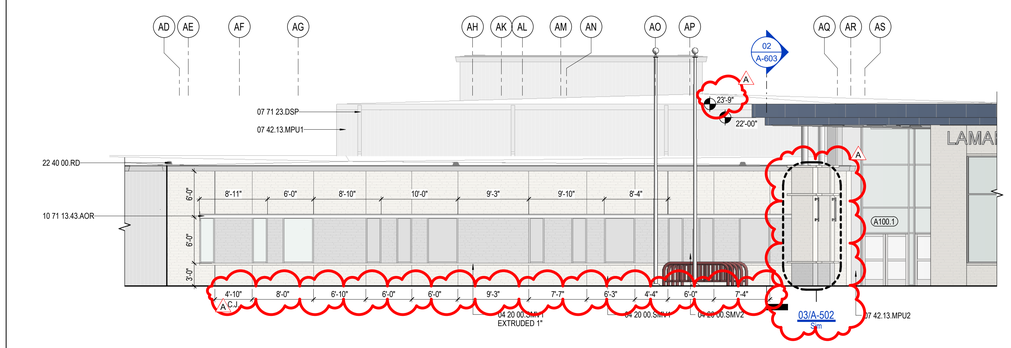
07 AREA C-A EAST ELEVATION
1/8" = 1'-0"



06 AREA C SOUTH ELEVATION
1/8" = 1'-0"



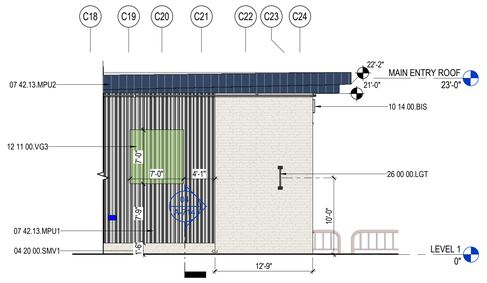
05 AREA B EAST ELEVATION 2
1/8" = 1'-0"



04 AREA A SOUTH ELEVATION
1/8" = 1'-0"

03 MAIN ENTRY COLUMN
1/4" = 1'-0"

01 AREA B SOUTH ELEVATION
1/8" = 1'-0"



02 AREA A WEST ELEVATION ENTRY
1/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1 (L)	BRICK TYPE 1 ROWLOCK BOND
04 20 00.BK1 (R)	BRICK TYPE 1 RUNNING BOND
04 20 00.BK1 (S)	BRICK TYPE 1 SOLDIER COURSE
04 20 00.SMV1	LIMESTONE VENEER IN RANDOM PATTERN TYPE 1
04 20 00.SMV2	LIMESTONE VENEER IN RANDOM PATTERN TYPE 2
05 50 00.DB1	DOWNSPOUT BOOT
05 50 00.LDR	[STEEL or ALUMINUM] LADDER
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 42.13.MPU2	UNINSULATED METAL WALL PANEL, TYPE 2 - CONCEALED FASTENER
07 62 00.GTR	GUTTER
07 71 23.DSP	_" H X _" D METAL DOWNSPOUT
07 72 33.RS1	ROOF HATCH
10 14 00.BIS	BUILDING IDENTIFICATION SIGN
10 14 00.RID1	ROOM/DOOR SIGN
10 71 13.43.AOR	ALUMINUM OUTRIGGER
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM
12 11 00.VG3	CUSTOM-FABRICATED CUT METAL GRAPHIC
22 40 00.RD	ROOF DRAIN, REFER TO PLUMBING
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL

EXTERIOR MATERIALS LEGEND

03 30 00.WL
CAST IN PLACE CONCRETE WALL

07 71 23.DS
GUTTER AND DOWN SPOUT
METAL FORMED

07 42 13.MPU1
UNINSULATED METAL WALL PANEL

07 42 13.MPU2
UNINSULATED METAL WALL PANEL

07 42 13.MPU2
CANOPY MATERIAL
--

07 42 13.MPU2
ROOF EDGE MATERIAL
--

04 20 00.BK1 (R)
BRICK TYPE 1, RUNNING BOND

04 20 00.SMV1
STONE VENEER TYPE 1

04 20 00.SMV2
STONE VENEER TYPE 2

04 20 00.SMV3
STONE VENEER TYPE 3

04 20 00.BK1 (S)
BRICK TYPE 1, SOLDIER COURSE

04 20 00.BK1 (S)
BRICK TYPE 1, ROWLOCK COURSE

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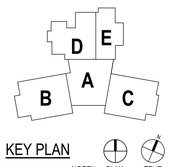
BUILDING ENVELOPE
BEAM
T 713-965-0608

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB, KM

EXTERIOR ELEVATIONS

A-502

Plot Stamp:
10/23/2025 7:40:40 PM

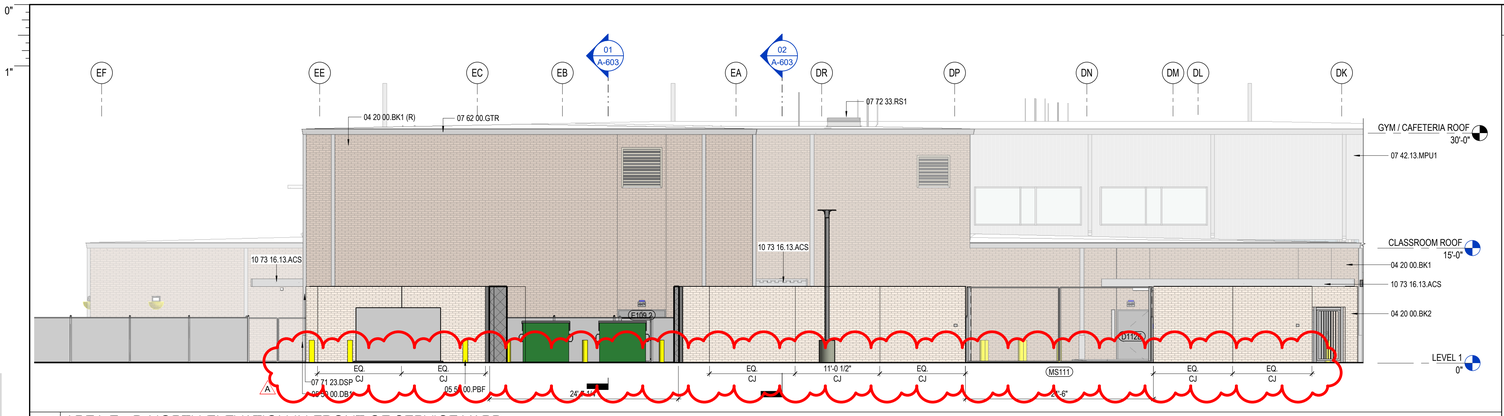
EXTERIOR ELEVATIONS

A-503

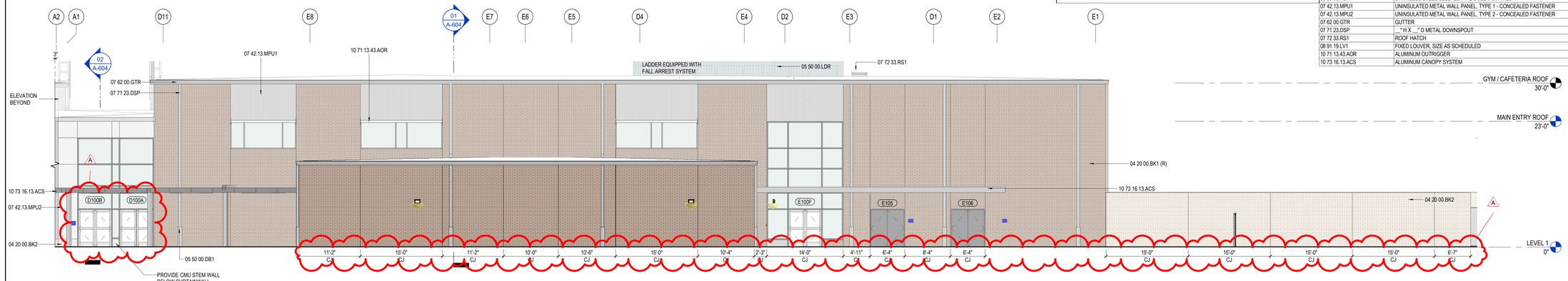
FOR BLUEBEAM LABELING/DOCR:

PROPOSAL

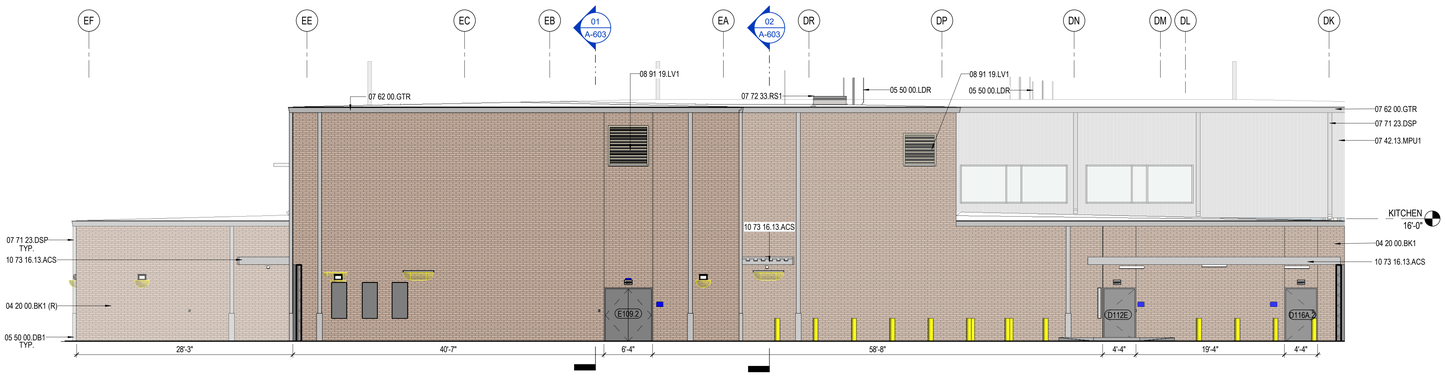
ISSUE FOR P



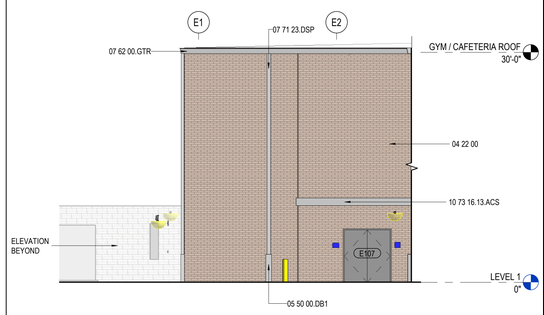
06 AREA E - D NORTH ELEVATION
1/8" = 1'-0"



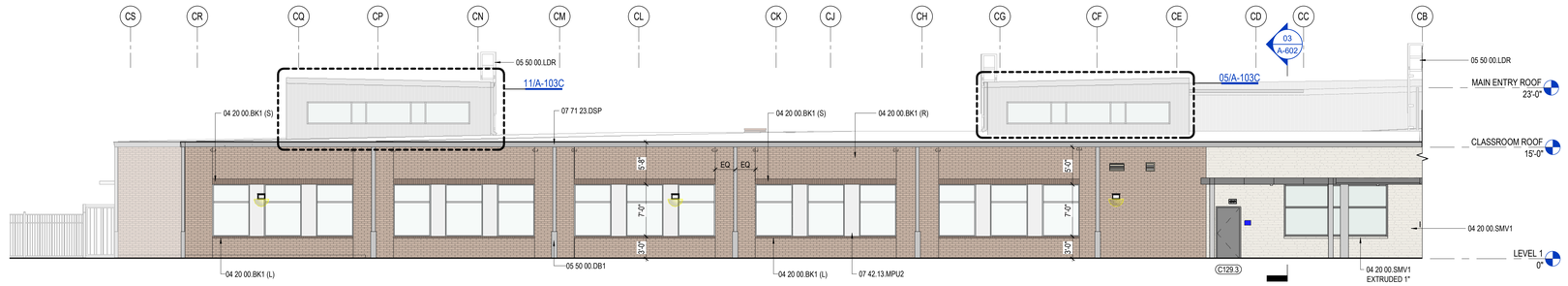
05 AREA E EAST ELEVATION
1/8" = 1'-0"



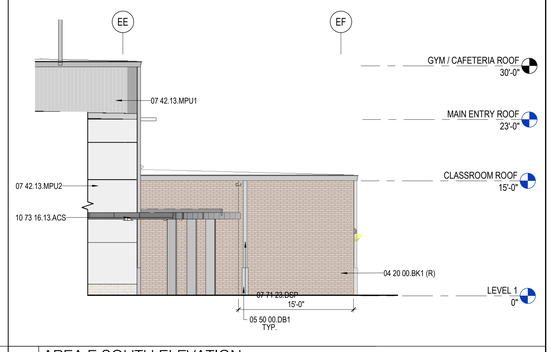
04 AREA E NORTH ELEVATION
1/8" = 1'-0"



03 AREA E WEST ELEVATION
1/8" = 1'-0"



02 AREA C NORTH ELEVATION
1/8" = 1'-0"



01 AREA E SOUTH ELEVATION
1/8" = 1'-0"

EXTERIOR MATERIALS LEGEND

- **03 30 00.WL** CAST IN PLACE CONCRETE WALL
- **07 71 23.DS** GUTTER AND DOWN SPOUT METAL FORMED
- **07 42 13.MPU1** UNINSULATED METAL WALL PANEL
- **07 42 13.MPU2** UNINSULATED METAL WALL PANEL
- **07 42 13.MPU2** CANOPY MATERIAL --
- **07 42 13.MPU2** ROOF EDGE MATERIAL --
- **04 20 00.BK1 (R)** BRICK TYPE 1, RUNNING BOND
- **04 20 00.SMV1** STONE VENEER TYPE 1
- **04 20 00.SMV2** STONE VENEER TYPE 2
- **04 20 00.SMV3** STONE VENEER TYPE 3
- **04 20 00.BK1 (S)** BRICK TYPE 1, SOLDIER COURSE
- **04 20 00.BK1 (S)** BRICK TYPE 1, ROWLOCK COURSE

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
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12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - FIELD BRICK
04 20 00.BK1 (L)	BRICK TYPE 1 ROWLOCK BOND
04 20 00.BK1 (R)	BRICK TYPE 1 RUNNING BOND
04 20 00.BK1 (S)	BRICK TYPE 1 SOLDIER COURSE
04 20 00.BK2	BRICK TYPE 2 - ACCENT BRICK
04 20 00.SMV1	LIMESTONE VENEER IN RANDOM PATTERN TYPE 1
04 22 00	
05 50 00.DB1	DOWNSPOUT BOOT
05 50 00.LDR	[STEEL or ALUMINUM] LADDER
05 50 00.PBF	STAINLESS STEEL SLEEVED PIPE BOLLARD, FIXED
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 42.13.MPU2	UNINSULATED METAL WALL PANEL, TYPE 2 - CONCEALED FASTENER
07 62 00.GTR	GUTTER
07 71 23.DSP	" H X " D METAL DOWNSPOUT
07 72 33.RS1	ROOF HATCH
08 91 19.LV1	FIXED LOUVER. SIZE AS SCHEDULED
10 71 13.43.AOR	ALUMINUM OUTRIGGER
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM

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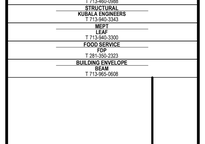

KEY PLAN
NORTH: PLAN TRUE

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DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB, KM

EXTERIOR ELEVATIONS

A-503

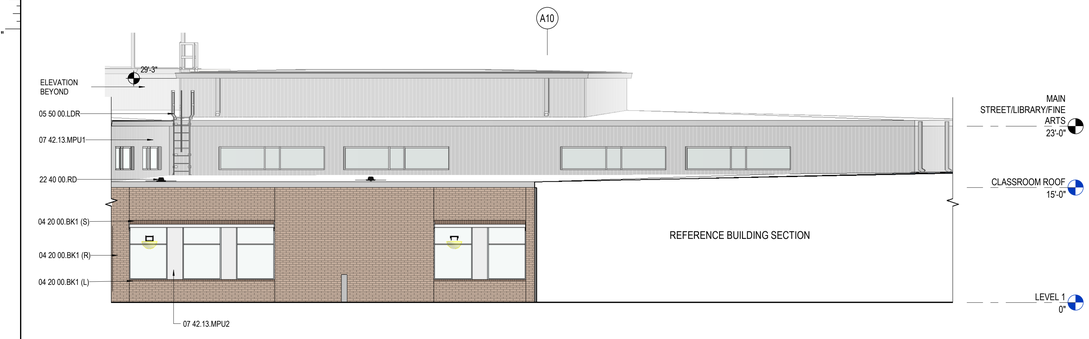
Plot Stamp:
10/23/2025 7:40:57 PM

EXTERIOR ELEVATIONS

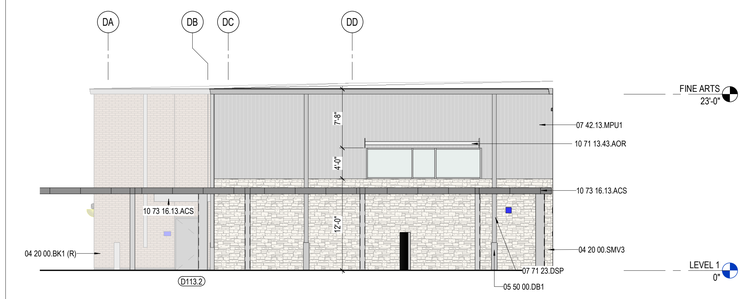
A-504

FOR BLUEBEAM LABELING/OCR:

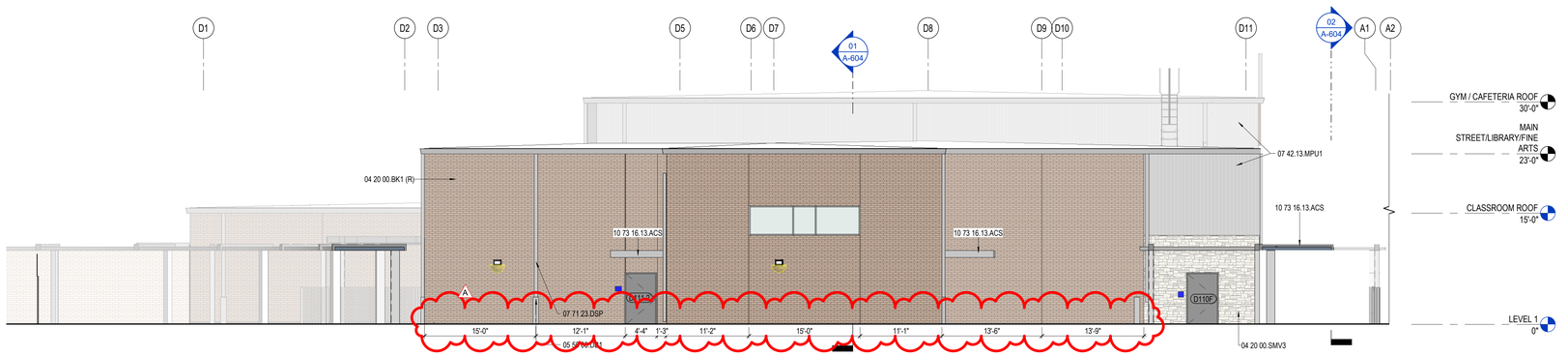
ISSUE FOR PROPOSAL



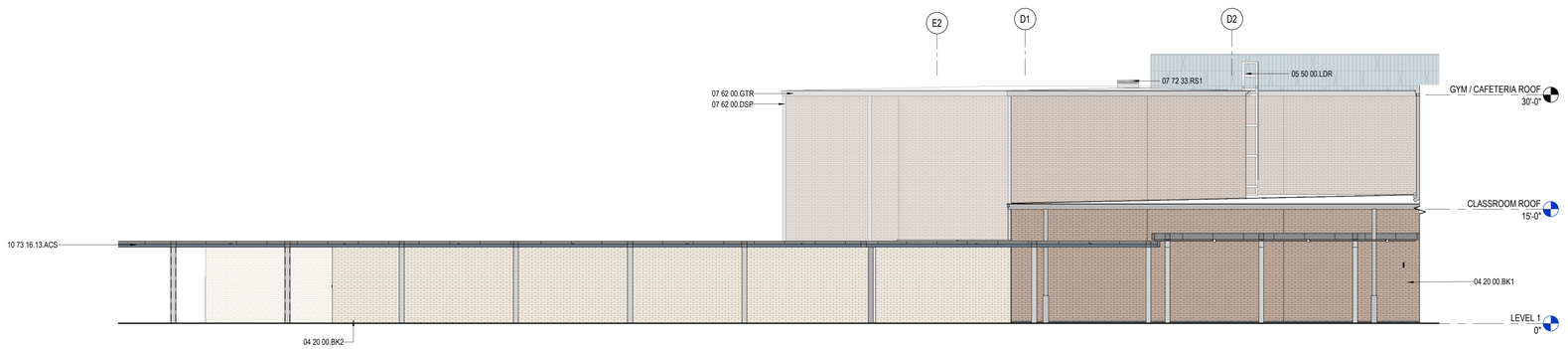
06 AREA A WEST ELEVATION
1/8" = 1'-0"



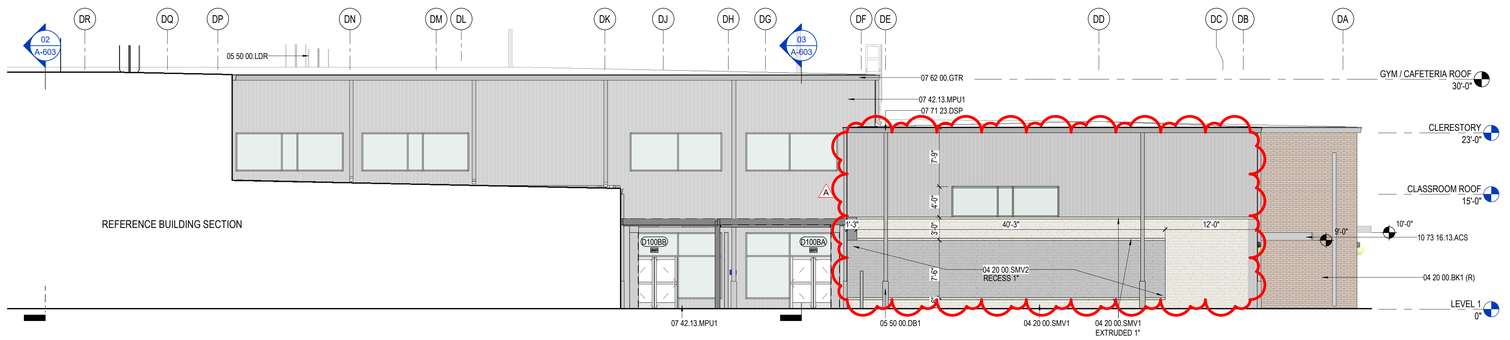
05 AREA D SOUTH ELEVATION
1/8" = 1'-0"



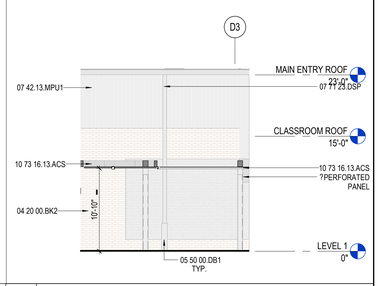
04 AREA D WEST ELEVATION 3
1/8" = 1'-0"



03 AREA D WEST ELEVATION 2
1/8" = 1'-0"



02 AREA D NORTH ELEVATION
1/8" = 1'-0"



01 AREA D NORTHWEST ELEVATION 1
1/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
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5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
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EXTERIOR MATERIALS LEGEND

03 30 00.WL
CAST IN PLACE CONCRETE WALL

07 71 23.DS
GUTTER AND DOWN SPOUT
METAL FORMED

07 42 13.MPU1
UNINSULATED METAL WALL PANEL

07 42 13.MPU2
UNINSULATED METAL WALL PANEL

07 42 13.MPU2
CANOPY MATERIAL
--

07 42 13.MPU2
ROOF EDGE MATERIAL
--

04 20 00.BK1 (R)
BRICK TYPE 1, RUNNING BOND

04 20 00.SMV1
STONE VENEER TYPE 1

04 20 00.SMV2
STONE VENEER TYPE 2

04 20 00.SMV3
STONE VENEER TYPE 3

04 20 00.BK1 (S)
BRICK TYPE 1, SOLDIER COURSE

04 20 00.BK1 (S)
BRICK TYPE 1, ROWLOCK COURSE

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - FIELD BRICK
04 20 00.BK1 (L)	BRICK TYPE 1 ROWLOCK BOND
04 20 00.BK1 (R)	BRICK TYPE 1 RUNNING BOND
04 20 00.BK1 (S)	BRICK TYPE 1 SOLDIER COURSE
04 20 00.BK2	BRICK TYPE 2 - ACCENT BRICK
04 20 00.SMV1	LIMESTONE VENEER IN RANDOM PATTERN TYPE 1
04 20 00.SMV2	LIMESTONE VENEER IN RANDOM PATTERN TYPE 2
04 20 00.SMV3	
05 50 00.DB1	DOWNSPOUT BOOT
05 50 00.LDR	[STEEL or ALUMINUM] LADDER
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 42.13.MPU2	UNINSULATED METAL WALL PANEL, TYPE 2 - CONCEALED FASTENER
07 62 00.DSP	DOWNSPOUT
07 62 00.GTR	GUTTER
07 71 23.DSP	__" H X __" D METAL DOWNSPOUT
07 72 33.RS1	ROOF HATCH
10 71 13.43.AOR	ALUMINUM OUTRIGGER
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM
22 40 00.RD	ROOF DRAIN, REFER TO PLUMBING

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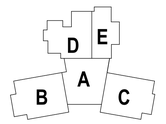
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7041
MEP
LEAP
T 713-540-3300
FOOD SERVICE
TBD
T 281-556-2300
BUILDING ENVELOPE
BEAM
T 713-965-0608

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE 10/13/2025

PROJECT NUMBER 240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB, KM

EXTERIOR ELEVATIONS

A-504

Plot Stamp:
10/23/2025 7:41:14 PM

0"
1"

EXTERIOR ELEVATIONS

A-505

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1 (L)	BRICK TYPE 1 ROWLOCK BOND
04 20 00.BK1 (R)	BRICK TYPE 1 RUNNING BOND
04 20 00.BK1 (S)	BRICK TYPE 1 SOLDIER COURSE
04 20 00.SMV1	LIMESTONE VENEER IN RANDOM PATTERN TYPE 1
04 20 00.SMV3	
05 50 00.DB1	DOWNSPOUT BOOT
05 50 00.LDR	[STEEL or ALUMINUM] LADDER
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 42.13.MPU2	UNINSULATED METAL WALL PANEL, TYPE 2 - CONCEALED FASTENER
07 62 00.GTR	GUTTER
07 71 23.DSP	__" H X __" D METAL DOWNSPOUT
07 72 33.RS1	ROOF HATCH

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

EXTERIOR MATERIALS LEGEND

03 30 00.WL
CAST IN PLACE CONCRETE WALL

07 71 23.DS
GUTTER AND DOWN SPOUT
METAL FORMED

07 42 13.MPU1
UNINSULATED METAL WALL PANEL

07 42 13.MPU2
UNINSULATED METAL WALL PANEL

07 42 13.MPU2
CANOPY MATERIAL
--

07 42 13.MPU2
ROOF EDGE MATERIAL
--

04 20 00.BK1 (R)
BRICK TYPE 1, RUNNING BOND

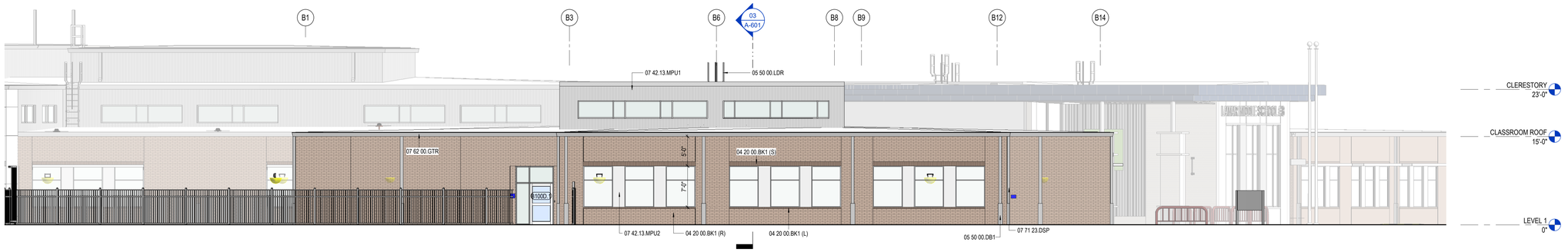
04 20 00.SMV1
STONE VENEER TYPE 1

04 20 00.SMV2
STONE VENEER TYPE 2

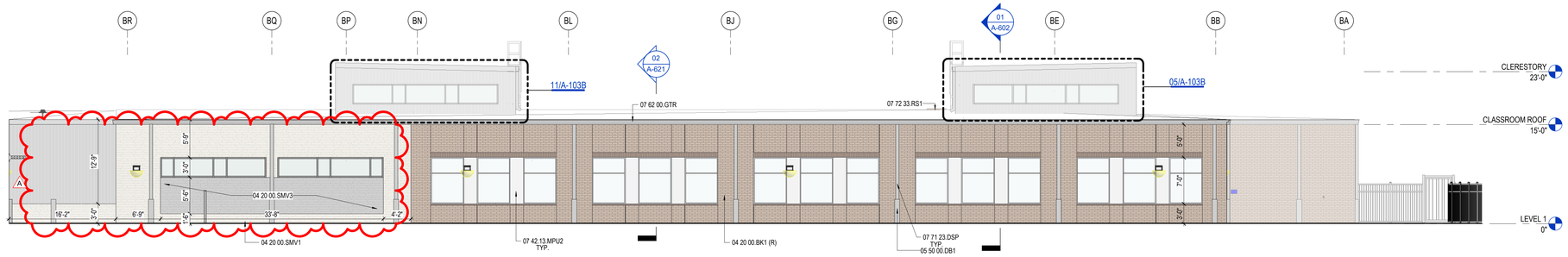
04 20 00.SMV3
STONE VENEER TYPE 3

04 20 00.BK1 (S)
BRICK TYPE 1, SOLDIER COURSE

04 20 00.BK1 (S)
BRICK TYPE 1, ROWLOCK COURSE



02 AREA B WEST ELEVATION
1/8" = 1'-0"



01 AREA B NORTH ELEVATION
1/8" = 1'-0"

Plot Stamp:
10/23/2025 7:41:23 PM

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
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Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALUZA INC
T 281-341-0808
LANDSCAPE
EDGELAND
T 713-682-0995
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7041
MEP
LEAP
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FOOD SERVICE
--
T 281-556-2300
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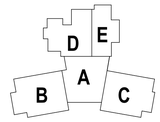
MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

EXTERIOR ELEVATIONS

A-505

INTERIOR ELEVATIONS - AREA A

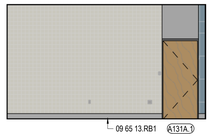
A-521

FOR BLUEBEAM LABELING/OCR:

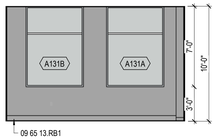
ISSUE FOR PROPOSAL

0"

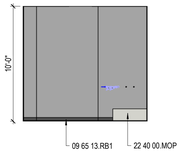
1"



24 SPED STORAGE A131A - SOUTH
3/16" = 1'-0"

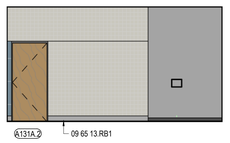


23 SPED CLASSROOM A131 - WEST
3/16" = 1'-0"

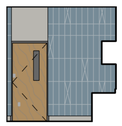


22 CUSTODIAL A126 - EAST
3/16" = 1'-0"

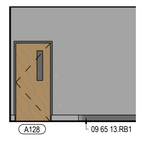
KEYNOTE LEGEND	
NUMBER	DESCRIPTION
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
10 11 00.MBP	PORCELAIN-ENAMEL MARKERBOARD
10 11 00.TKB	TACKBOARD
10 14 00.RID	ROOM/DOOR SIGN
11 28 00.CP1	COPIER/PRINTER (OFOI)
11 52 00.MS5	MONITOR, 55" TV
11 52 00.MT5	MONITOR, 75" TV
22 40 00.MOP	MOP SINK, REFER TO PLUMBING



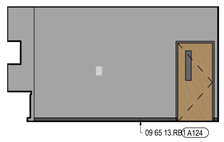
21 SPED STORAGE A131A - NORTH
3/16" = 1'-0"



20 SPED OFFICE A129 - EAST
3/16" = 1'-0"



19 SPED OFFICE A128 - SOUTH
3/16" = 1'-0"



18 ASSISTANT PRINCIPAL A124 - NORTH
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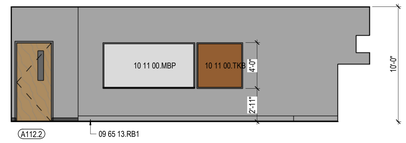
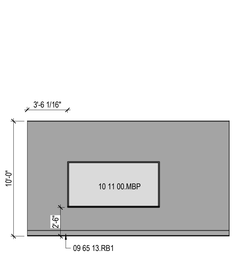
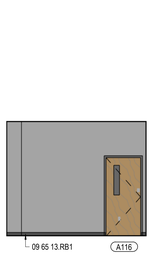


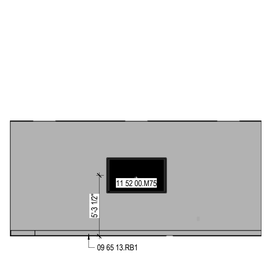
17 TEACHER'S LOUNGE A1121 - NORTH
3/16" = 1'-0"



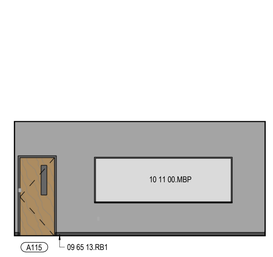
16 ISS/AEP A121 - NORTH
3/16" = 1'-0"



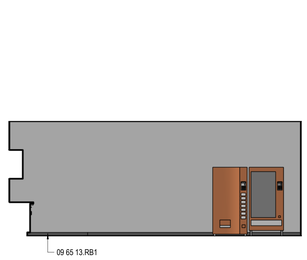
15 COUNSELOR OFFICE TYPICAL
3/16" = 1'-0"



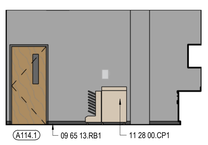
14 COUNSELOR CONF. ROOM A115 - WEST
3/16" = 1'-0"



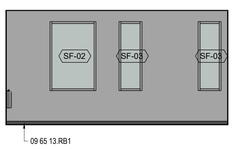
13 COUNSELOR CONF. ROOM A115 - EAST
3/16" = 1'-0"



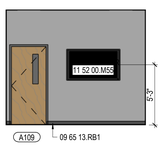
12 TEACHER'S LOUNGE A112 - SOUTH
3/16" = 1'-0"



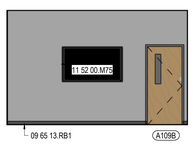
11 WORKROOM A114 - SOUTH
3/16" = 1'-0"



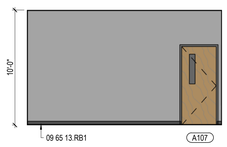
10 ADMIN WORKROOM A111 - SOUTH
3/16" = 1'-0"



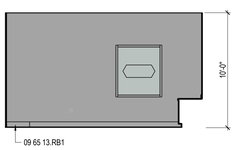
08 PRINCIPAL A109 - NORTH
3/16" = 1'-0"



07 CONFERENCE A107 - WEST
3/16" = 1'-0"

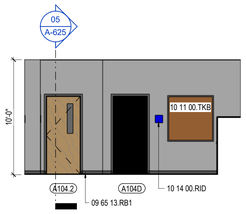


06 CONFERENCE A107 - NORTH
3/16" = 1'-0"



05 SECRETARY A105 - EAST
3/16" = 1'-0"

04 SECRETARY A105 - NORTH
3/16" = 1'-0"



03 CLINIC A104 - NORTH
3/16" = 1'-0"

02 RECEPTION A101 - EAST
3/16" = 1'-0"

01 RECEPTION A101 - NORTH
3/16" = 1'-0"

PBK

ARCHITECT
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11 Greenway Plaza, 22nd Floor
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713-965-0608 P
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CIVIL
KALLEN INC
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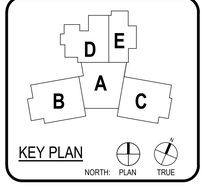
LANDSCAPE
EDGELAND
T 713-682-0995
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEPT
LEAP
T 713-340-3300
FOOD SERVICE
T 281-556-2303
BUILDING ENVELOPE
BEAR
T 713-965-0808

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker

DRAWN BY: Author

INTERIOR ELEVATIONS - AREA A

A-521 A

Plot Stamp:
10/23/2025 10:26:04 PM

INTERIOR ELEVATIONS - AREA A

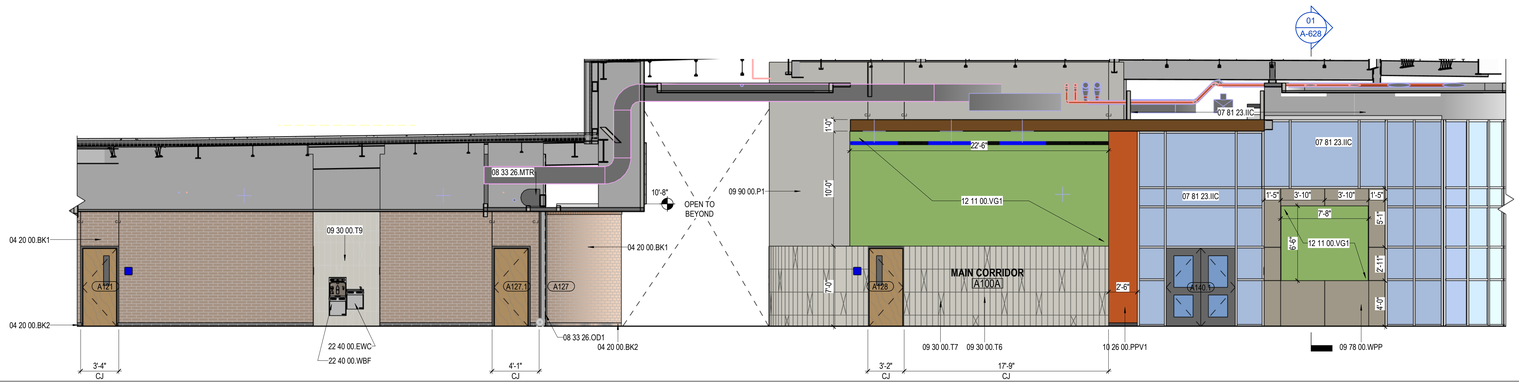
A-522

FOR BLUEBEAM LABELING/OCR:

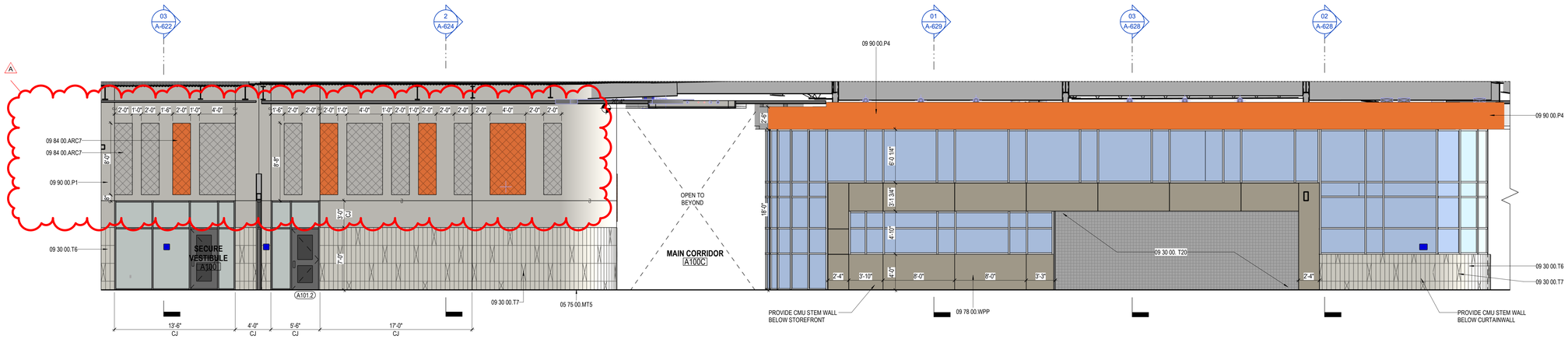
0"

1"

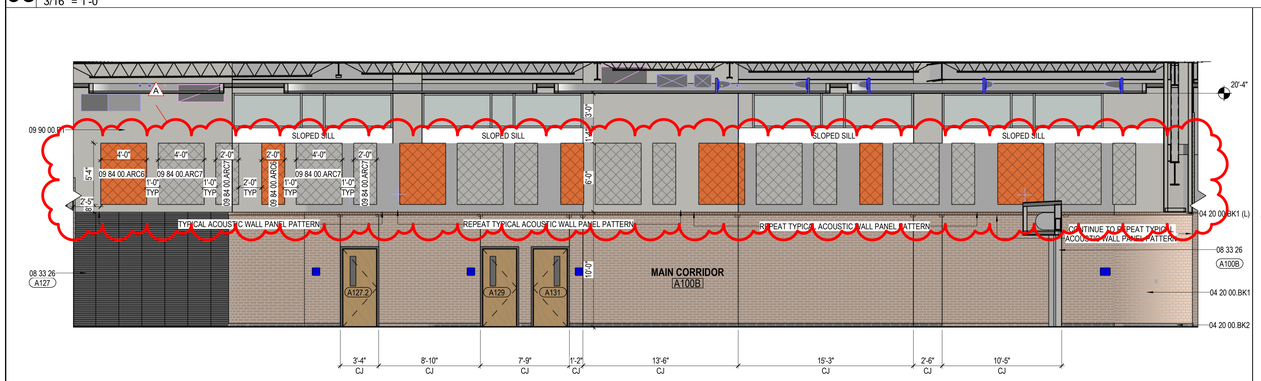
ISSUE FOR PROPOSAL



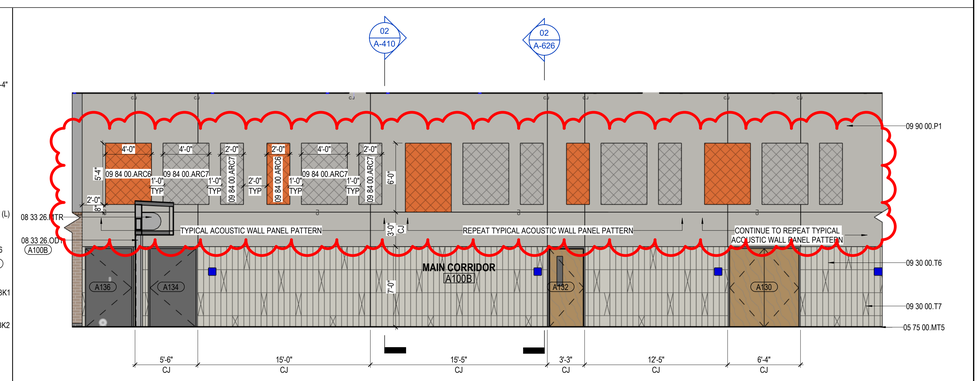
07 CORRIDOR A100A - AREA A - NORTH
3/16" = 1'-0"



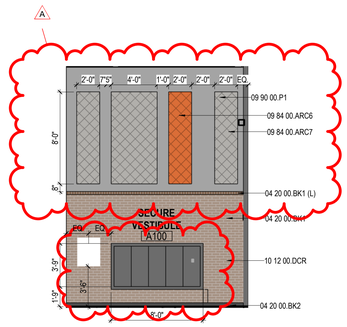
06 CORRIDOR A100C @ ADMIN - AREA A - WEST
3/16" = 1'-0"



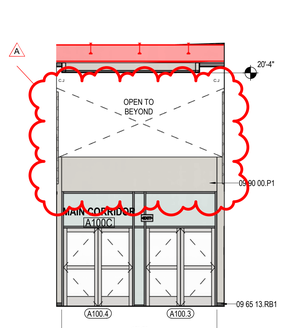
05 CORRIDOR A100B - AREA A - WEST
3/16" = 1'-0"



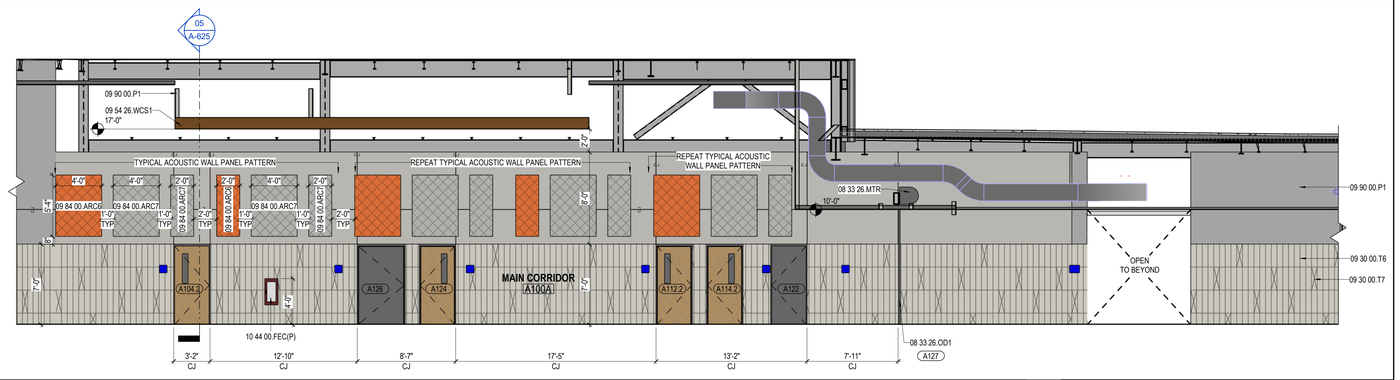
04 CORRIDOR A100B - AREA A - EAST
3/16" = 1'-0"



03 SECURE VESTIBULE - DISPLAY CASE
3/16" = 1'-0"



02 VESTIBULE A100 - AREA A - SOUTH
3/16" = 1'-0"



01 CORRIDOR A100A - AREA A - SOUTH
3/16" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - FIELD BRICK
04 20 00.BK1 (L)	BRICK TYPE 1 ROWLOCK BOND
04 20 00.BK2	BRICK TYPE 2 - ACCENT BRICK
05 75 00.MT5	FLOORING TRANSITION, TYPE 5 - TILED FLOOR TO WALL COVE
07 81 23.IIC	INTERIOR INTUMESCENT COATING
08 33 26	OVERHEAD COILING GRILLES (Architectural - PBK Architects)
08 33 26.MTR	OVERHEAD COILING GRILLE MOTOR
08 33 26.OD1	[MANUALLY or MOTOR]-OPERATED OVERHEAD COILING GRILLE, TYPE 1 - [DESCRIPTOR]
09 30 00. T20	TILE TYPE 20 - [MOSAIC TILE]
09 30 00.T6	TILE TYPE 6 - [WALL TILE FIELD]
09 30 00.T7	TILE TYPE 7 - [WALL TILE ACCENT]
09 30 00.T9	TILE TYPE 9 - [WALL TILE ACCENT]
09 54 26.WCS1	WOOD CEILING AND WALL SYSTEM, TYPE 1 - 1100 CROSS PIECE GRILLE 1123-5
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 78 00.WPP	DECORATIVE PLASTIC WALL PANELING
09 84 00.ARC6	ACOUSTIC ROOM COMPONENT TYPE 6 - WALL PANEL
09 84 00.ARC7	ACOUSTIC ROOM COMPONENT TYPE 7 - WALL PANEL
09 90 00.P1	PAINT TYPE 1 - FIELD
09 90 00.P4	PAINT TYPE 4 - SPIRIT COLOR
10 12 00.DCR	RECESSED DISPLAY CASE
10 26 00.PPV1	VINYL PLASTIC SHEET PROTECTIVE WALL PANEL - ORANGE
10 44 00.FEC(P)	FIRE EXTINGUISHER CABINET, PARTIALLY-RECESSED
12 11 00.VG1	VINYL GRAPHIC - SCHOOL LOGO
22 40 00.EWC	ELECTRIC WATER COOLER, REFER TO PLUMBING
22 40 00.WBF	WATER BOTTLE FILLER, REFER TO PLUMBING

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T 713-583-3300
FOOD SERVICE
TRAMEL
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BUILDING ENVELOPE
BEAM
T 713-965-0808

MIDDLE SCHOOL 8

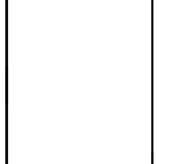
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN

NORTH: PLAN TRUE



CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker

DRAWN BY: KN, KMc

INTERIOR ELEVATIONS - AREA A

A-522

Plot Stamp:
10/23/2025 7:42:03 PM

ISSUE FOR PROPOSAL

INTERIOR ELEVATIONS - LIBRARY & CLASSROOMS

A-523

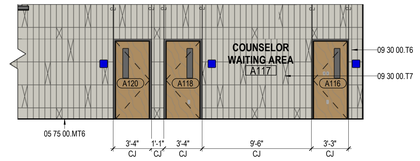
FOR BLUEBEAM LABELING/OCR:

0"

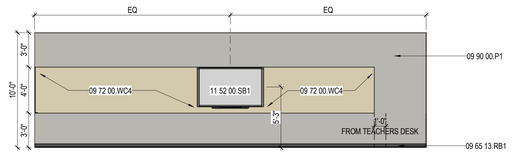
1"

KEYNOTE LEGEND

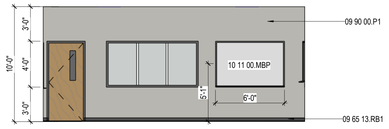
NUMBER	DESCRIPTION
05 75 00.MT5	FLOORING TRANSITION, TYPE 5 - TILED FLOOR TO WALL COVE
05 75 00.MT6	FLOORING TRANSITION, TYPE 6 - TILED WALL TO FINISHED FLOOR COVE
06 20 00.PL1	PLASTIC LAMINATE, TYPE 1 - [CASEWORK & DOORS]
07 81 23.IIC	INTERIOR INTUMESCENT COATING
09 30 00.T6	TILE TYPE 6 - [WALL TILE FIELD]
09 30 00.T7	TILE TYPE 7 - [WALL TILE ACCENT]
09 54 26.WCS1	WOOD CEILING AND WALL SYSTEM, TYPE 1 - 1100 CROSS PIECE GRILLE 1123-5
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 72 00.WC4	WALL COVERING TYPE 4 - MAGNETIC RECEPTIVE DRY ERASE WALLCOVERING
09 78 00.WPL	LAMINATED INTERIOR WALL PANELING
09 84 00.ARC6	ACOUSTIC ROOM COMPONENT TYPE 6 - WALL PANEL
09 84 00.ARC7	ACOUSTIC ROOM COMPONENT TYPE 7 - WALL PANEL
09 90 00.P1	PAINT TYPE 1 - FIELD
09 90 00.P2	PAINT TYPE 2 - ACCENT
10 11 00.MBP	PORCELAIN-ENAMEL MARKERBOARD
10 26 00.PPV1	VINYL PLASTIC SHEET PROTECTIVE WALL PANEL - ORANGE
11 52 00.MS8	MONITOR, 98" TV
11 52 00.SB1	SMARTBOARD (CFCI)
12 11 00.VG1	VINYL GRAPHIC - SCHOOL LOGO
12 36 00.PCS	PRE-FABRICATED STEEL COUNTERTOP SUPPORT
12 36 00.PLC	PLASTIC LAMINATE COUNTERTOP
12 36 00.SSB1	SOLID SURFACING BENCH - LIBRARY NOOK (SEAT)
DIVISION 09	FINISHES



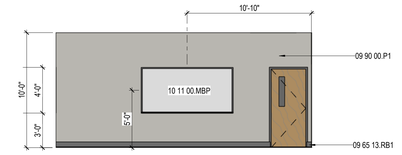
08 COUNSELOR WAITING AREA - A117 - EAST
3/16" = 1'-0"



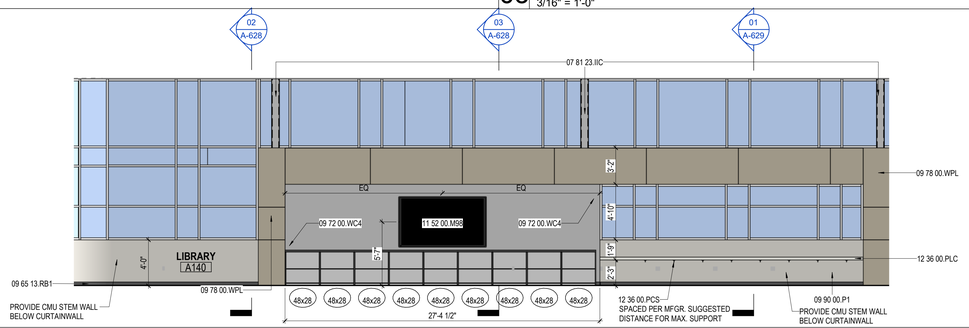
07 TYP. TEACHING WALL @ TEACHER DESK
3/16" = 1'-0"



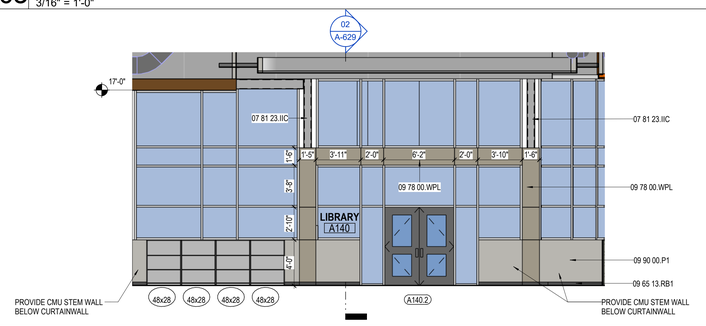
06 TYP. CLASSROOM - CORRIDOR WALL
3/16" = 1'-0"



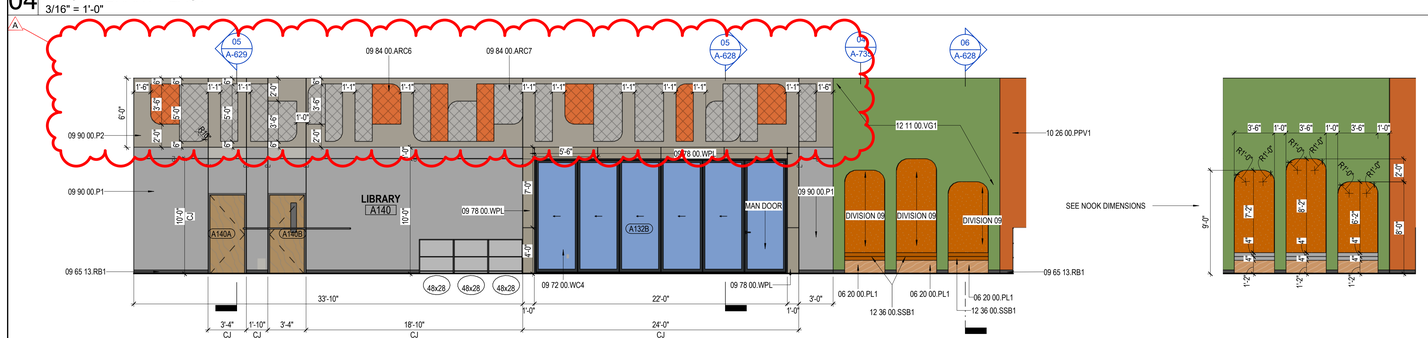
05 TYP. CLASSROOM MB WALL W/OUT WINDOW
3/16" = 1'-0"



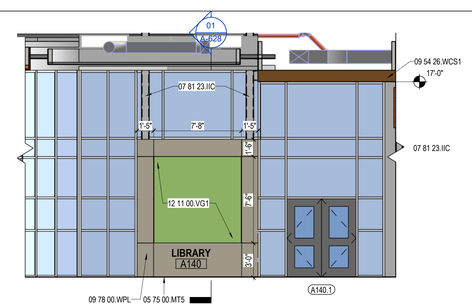
04 A140 - LIBRARY - EAST
3/16" = 1'-0"



03 A140 - LIBRARY - NORTH
3/16" = 1'-0"



02 A140 - LIBRARY - WEST
3/16" = 1'-0"



01 A140 - LIBRARY - SOUTH
3/16" = 1'-0"

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MIDDLE SCHOOL 8

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ISSUE FOR PROPOSAL

LAMAR CISD
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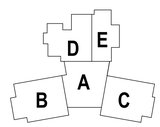

KEY PLAN
NORTH: PLAN TRUE

2025/10/13

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LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: KN, KMc

INTERIOR ELEVATIONS - LIBRARY & CLASSROOMS

A-523

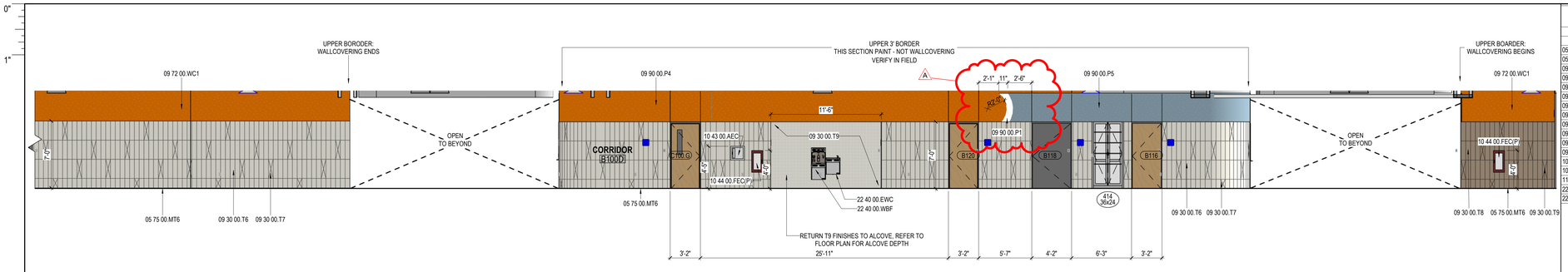
Plot Stamp:
10/23/2025 7:42:19 PM

INTERIOR ELEVATIONS - AREA B & AREA C

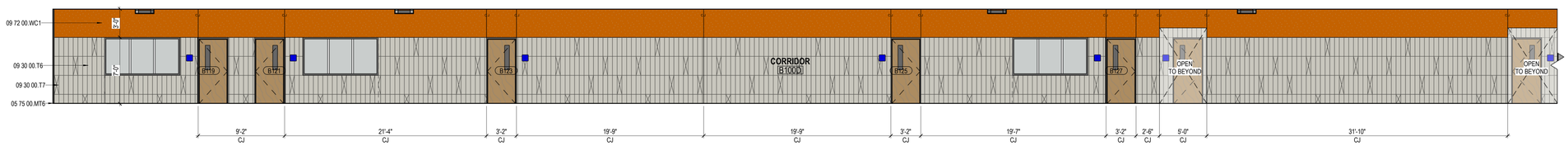
A-524

FOR BLUEBEAM LABELING/OCR:

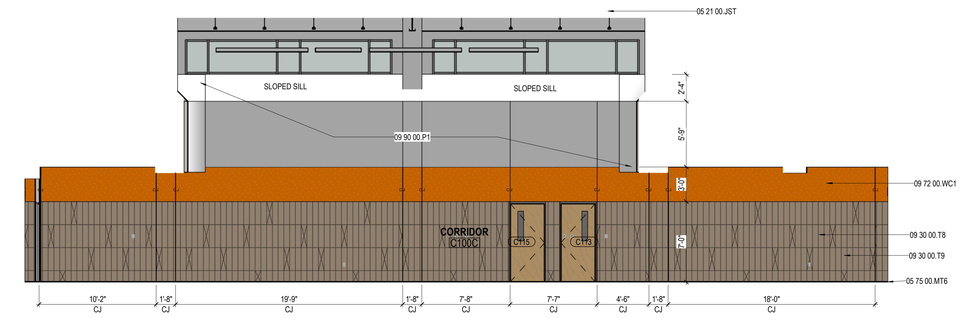
ISSUE FOR PROPOSAL



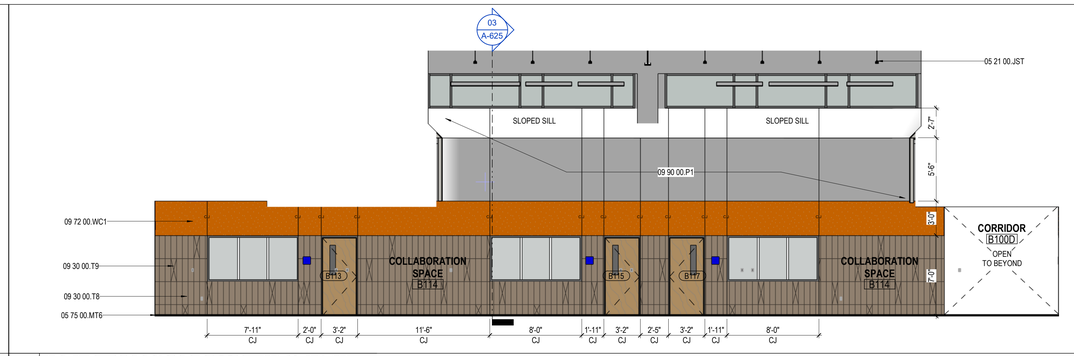
09 AREA B - NORTHERN CORRIDOR B100D - SOUTH VIEW
3/16" = 1'-0"



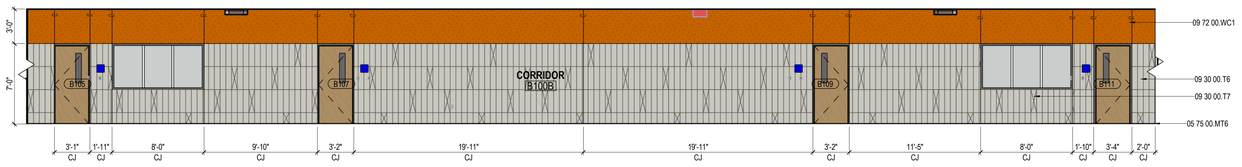
08 AREA B NORTHERN CORRIDOR B100D - NORTH VIEW
3/16" = 1'-0"



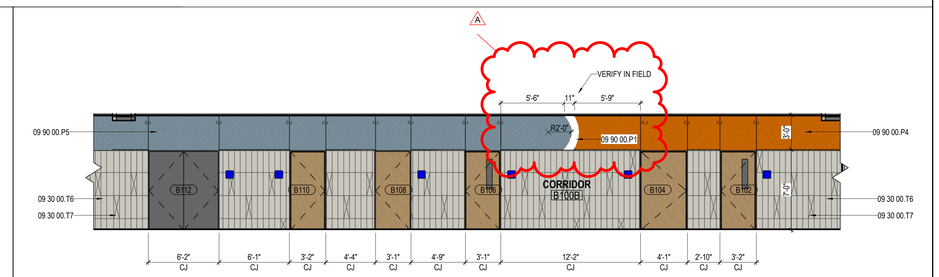
07 AREA C - CORRIDOR C100C - EAST VIEW
3/16" = 1'-0"



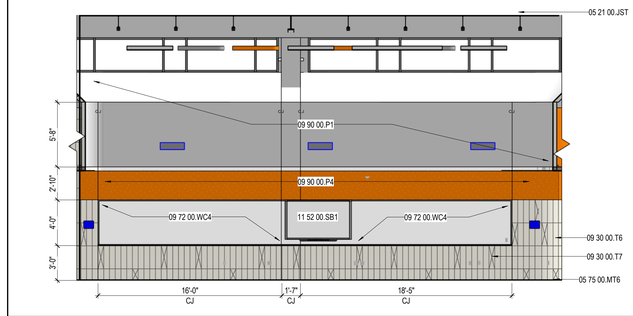
06 AREA B - CORRIDOR B100C - WEST VIEW
3/16" = 1'-0"



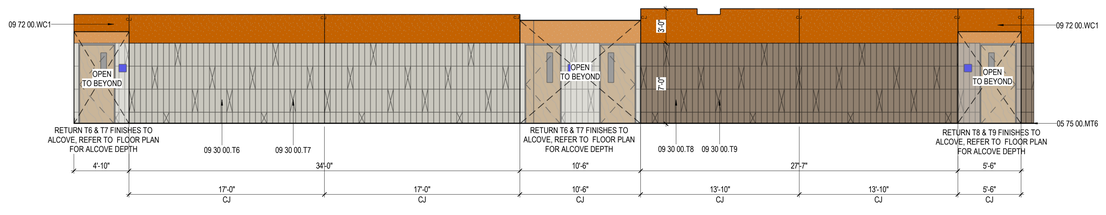
05 AREA B - SOUTHERN CORRIDOR B100B - SOUTH VIEW
3/16" = 1'-0"



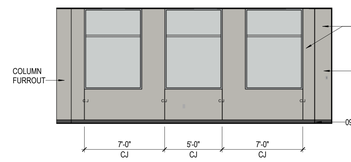
04 AREA B - SOUTHERN CORRIDOR B100B - NORTH VIEW
3/16" = 1'-0"



03 COLLABORATION SPACE TEACHING WALL TYPICAL - B100 WEST & C114 WEST
3/16" = 1'-0"



02 CORRIDOR B100A EAST & C100A WEST
3/16" = 1'-0"



01 CLASSROOM W/ WINDOWS TYP - AREA B & C
3/16" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 21 00.JST	STEEL JOIST, REFER TO STRUCTURAL
05 75 00.MT6	FLOORING TRANSITION, TYPE 6 - TILED WALL TO FINISHED FLOOR COVE
09 30 00.T6	TILE TYPE 6 - [WALL TILE FIELD]
09 30 00.T7	TILE TYPE 7 - [WALL TILE ACCENT]
09 30 00.T8	TILE TYPE 8 - [WALL TILE ACCENT]
09 30 00.T9	TILE TYPE 9 - [WALL TILE ACCENT]
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 72 00.WC1	WALL COVERING TYPE 1 - FABRIC-BACKED VINYL ROLL STOCK
09 72 00.WC4	WALL COVERING TYPE 4 - MAGNETIC RECEPTIVE DRY ERASE WALLCOVERING
09 90 00.P1	PAINT TYPE 1 - FIELD
09 90 00.P4	PAINT TYPE 4 - SPIRIT COLOR
09 90 00.P5	PAINT TYPE 5 - SPIRIT COLOR
10 43 00.AEC	AED CABINET
10 44 00.FEC(P)	FIRE EXTINGUISHER CABINET, PARTIALLY-RECESSED
11 52 00.SB1	SMARTBOARD (CFCI)
22 40 00.EWC	ELECTRIC WATER COOLER, REFER TO PLUMBING
22 40 00.WBF	WATER BOTTLE FILLER, REFER TO PLUMBING

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LAMAR CISD
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KEY PLAN
NORTH: PLAN TRUE

2025/10/13

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DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker

DRAWN BY: KN, KMc

INTERIOR ELEVATIONS - AREA B & AREA C

A-524

Plot Stamp:
10/23/2025 7:42:33 PM

0"
1"

INTERIOR ELEVATIONS - AREA C
A-525
FOR BLUEBEAM LABELING/OCR:

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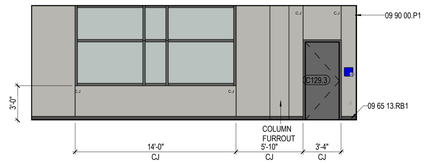
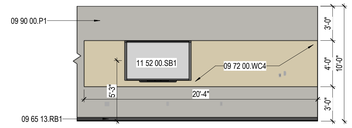
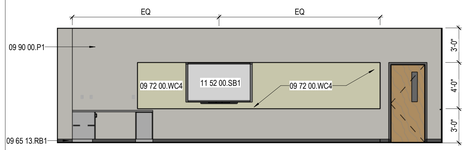


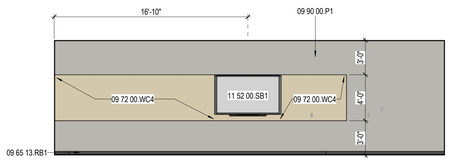
10 ART CLASSROOM C129 - NORTH
3/16" = 1'-0"



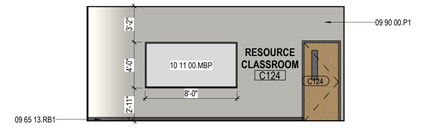
09 ART CLASSROOM - TYP. TEACHING WALL
3/16" = 1'-0"



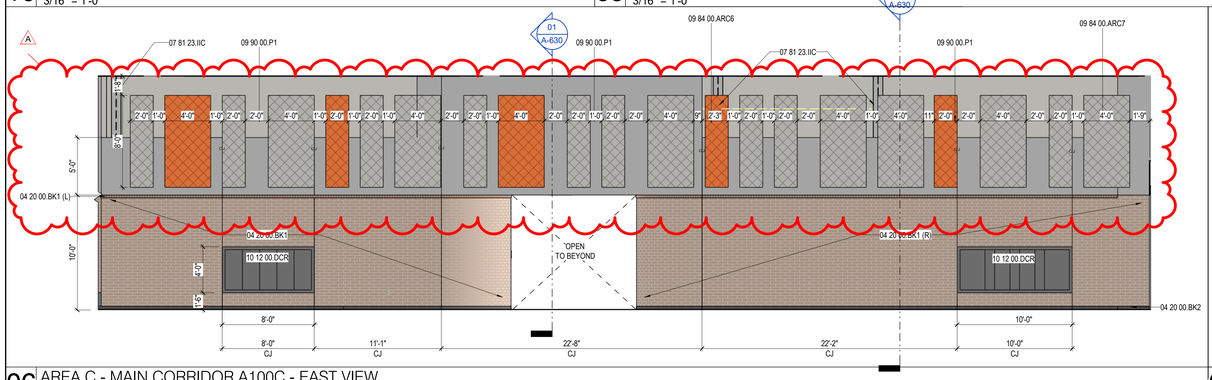
11 TYP. SCIENCE LAB TEACHING WALL
3/16" = 1'-0"



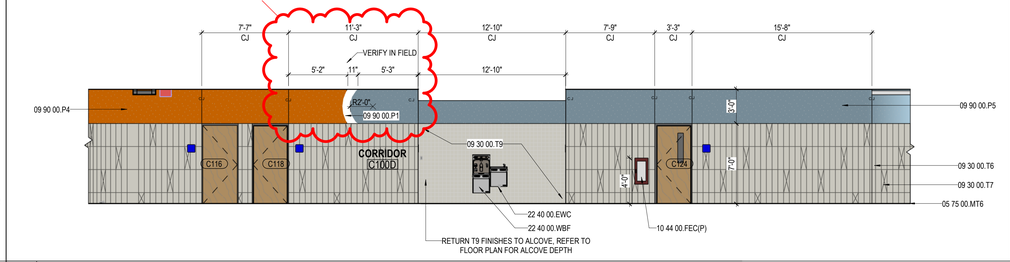
08 C124 RESOURCE CLASSROOM
3/16" = 1'-0"



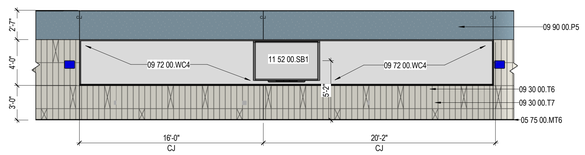
07 RESOURCE CLASSROOM C124 - NORTH
3/16" = 1'-0"



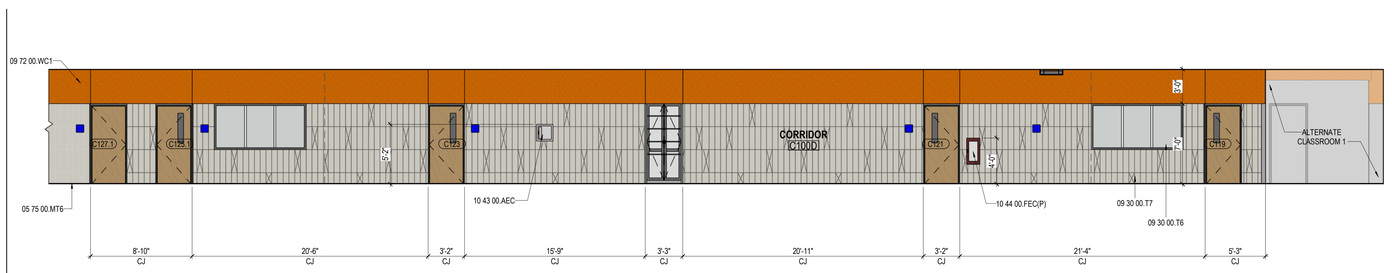
06 AREA C - MAIN CORRIDOR A100C - EAST VIEW
3/16" = 1'-0"



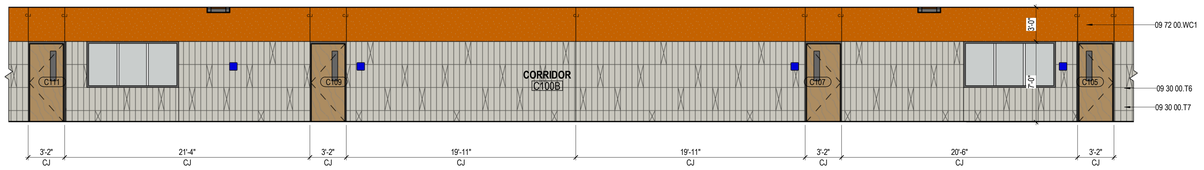
05 AREA C - NORTHERN CORRIDOR C100D - SOUTH VIEW
3/16" = 1'-0"



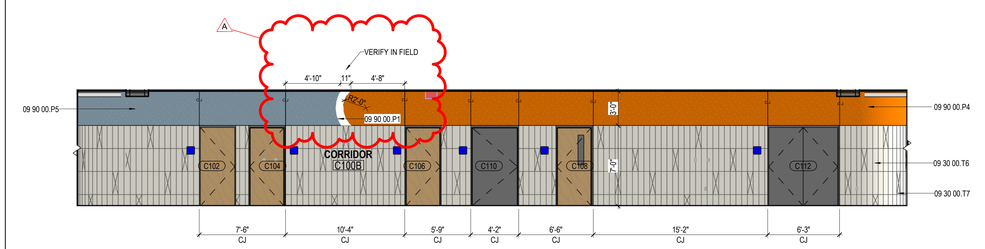
04 COLLABORATION SPACE TEACHING WALL TYPICAL - B114 EAST & C100 EAST
3/16" = 1'-0"



03 AREA C - NORTHERN CORRIDOR C100D - NORTH VIEW
3/16" = 1'-0"



02 AREA C - SOUTHERN CORRIDOR C100B - SOUTH VIEW
3/16" = 1'-0"



01 AREA C SOUTHERN CORRIDOR C100B - NORTH VIEW
3/16" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - FIELD BRICK
04 20 00.BK1 (L)	BRICK TYPE 1 ROWLOCK BOND
04 20 00.BK1 (R)	BRICK TYPE 1 RUNNING BOND
04 20 00.BK2	BRICK TYPE 2 - ACCENT BRICK
05 75 00.MT6	FLOORING TRANSITION, TYPE 6 - TILED WALL TO FINISHED FLOOR COVE
07 81 23.IIC	INTERIOR INTUMESCENT COATING
09 30 00.T6	TILE TYPE 6 - [WALL TILE FIELD]
09 30 00.T7	TILE TYPE 7 - [WALL TILE ACCENT]
09 30 00.T9	TILE TYPE 9 - [WALL TILE ACCENT]
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 72 00.WC1	WALL COVERING TYPE 1 - FABRIC-BACKED VINYL ROLL STOCK
09 72 00.WC4	WALL COVERING TYPE 4 - MAGNETIC RECEPTIVE DRY ERASE WALLCOVERING
09 84 00.ARC6	ACOUSTIC ROOM COMPONENT TYPE 6 - WALL PANEL
09 84 00.ARC7	ACOUSTIC ROOM COMPONENT TYPE 7 - WALL PANEL
09 90 00.P1	PAINT TYPE 1 - FIELD
09 90 00.P4	PAINT TYPE 4 - SPIRIT COLOR
09 90 00.P5	PAINT TYPE 5 - SPIRIT COLOR
10 11 00.MBP	PORCELAIN-ENAMEL MARKERBOARD
10 12 00.DCR	RECESSED DISPLAY CASE
10 43 00.AEC	AED CABINET
10 44 00.FEC(P)	FIRE EXTINGUISHER CABINET, PARTIALLY-RECESSED
11 52 00.SB1	SMARTBOARD (CFCI)
22 40 00.EWC	ELECTRIC WATER COOLER, REFER TO PLUMBING
22 40 00.WBF	WATER BOTTLE FILLER, REFER TO PLUMBING

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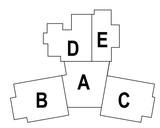
T 281-341-0808
LANDSCAPE
EDGELAND
T 713-682-0995
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7342
MEPT
LEAP
T 713-340-3300
FOOD SERVICE
T 281-556-2303
BUILDING ENVELOPE
BEAN
T 713-965-0608

MIDDLE SCHOOL 8
32801 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: KN, KMc

INTERIOR ELEVATIONS - AREA C

A-525

Plot Stamp:
10/23/2025 7:42:49 PM

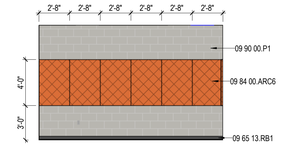
0"
1"

INTERIOR ELEVATIONS - AREA D
A-526
FOR BLUEBEAM LABELING/OCR:

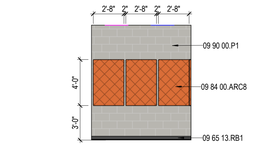
ISSUE FOR PROPOSAL

KEYNOTE LEGEND

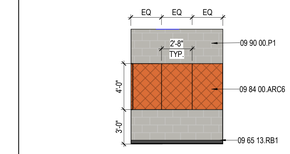
NUMBER	DESCRIPTION
07 81 23.IIC	INTERIOR INTUMESCENT COATING
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 84 00.ARC6	ACOUSTIC ROOM COMPONENT TYPE 6 - WALL PANEL
09 84 00.ARC8	ACOUSTIC ROOM COMPONENT TYPE 8 - FABRIC-FACED ABOVE 7'-0" A.F.F.
09 84 00.ARC9	ACOUSTIC ROOM COMPONENT TYPE 9 - FABRIC-FACED ABOVE 7'-0" A.F.F.
09 90 00.P1	PAINT TYPE 1 - FIELD
10 11 00.MBP	PORCELAIN-ENAMEL MARKERBOARD
11 52 00.SB1	SMARTBOARD (CFCI)
12 24 00.SZM	MOTORIZED WINDOW SHADE UNIT MOUNTED MOUNTED BETWEEN JAMBS OF GLAZING SYSTEM



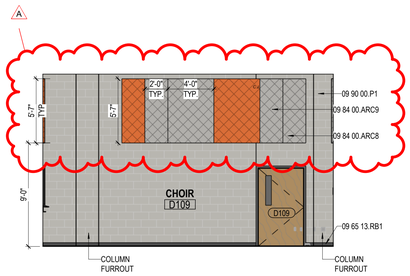
19 D111C BAND PRAC. LARGE - SOUTH
3/16" = 1'-0"



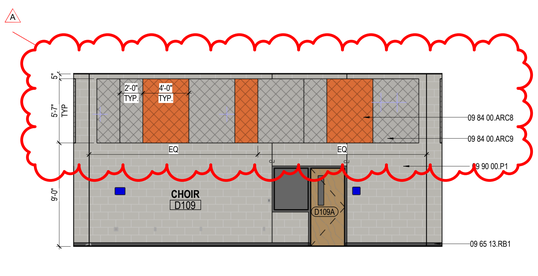
18 TYPICAL PRACTICE ROOM - EAST WALL
3/16" = 1'-0"



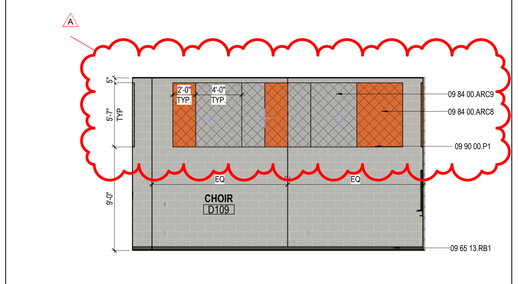
17 TYP. PRACTICE ROOM - NORTH OR SOUTH WALL
3/16" = 1'-0"



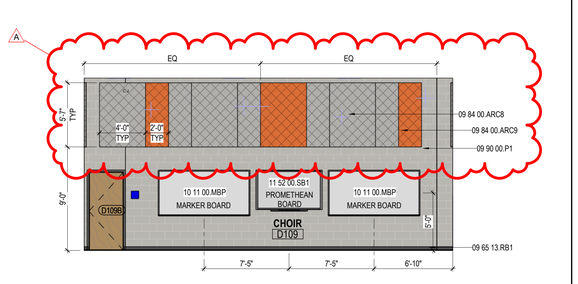
16 D109 CHOIR - E
3/16" = 1'-0"



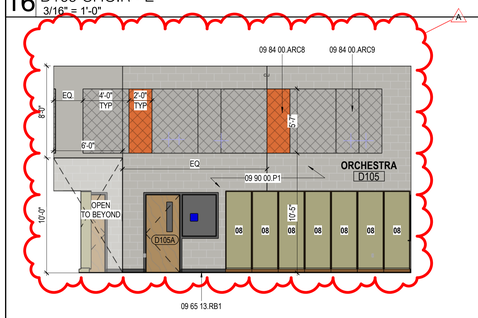
15 D109 CHOIR - S
3/16" = 1'-0"



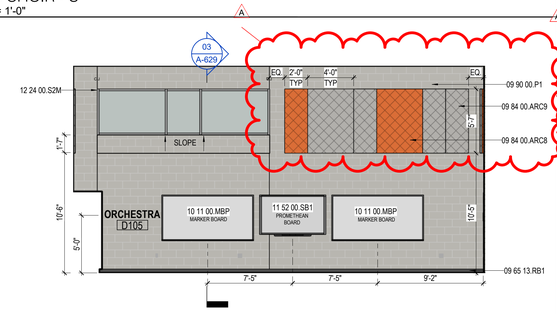
14 D109 CHOIR - W
3/16" = 1'-0"



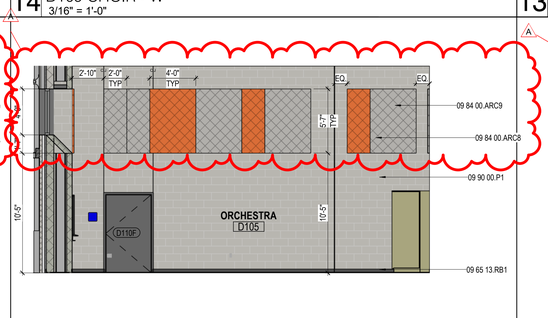
13 D109 CHOIR - N
3/16" = 1'-0"



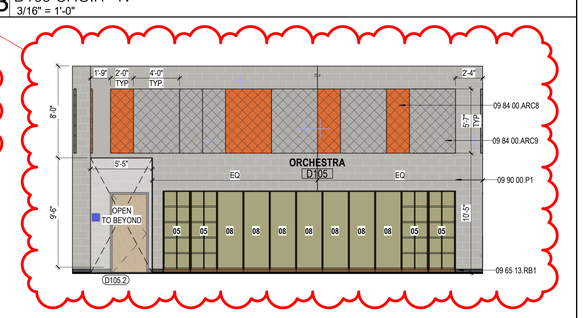
12 D105 ORCHESTRA - E
3/16" = 1'-0"



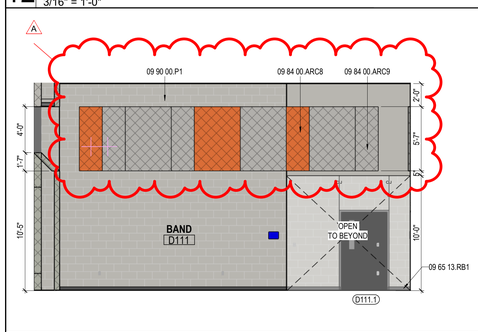
11 D105 ORCHESTRA - S
3/16" = 1'-0"



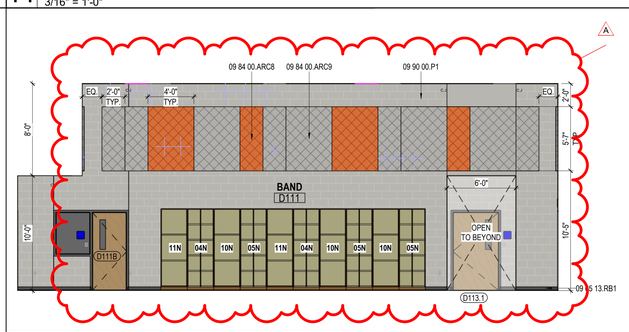
10 D105 ORCHESTRA - W
3/16" = 1'-0"



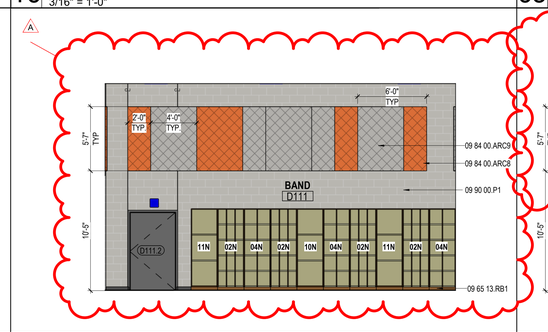
09 D105 ORCHESTRA - N
3/16" = 1'-0"



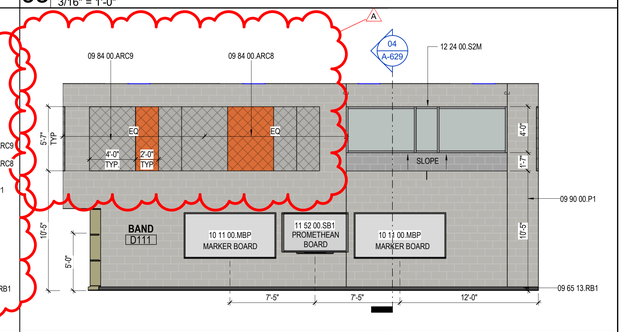
08 D111 BAND - E
3/16" = 1'-0"



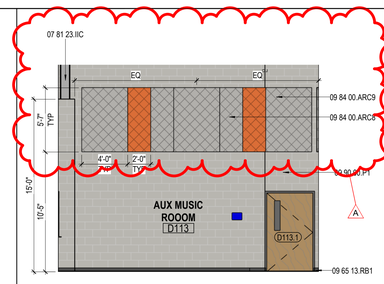
07 D111 BAND - S
3/16" = 1'-0"



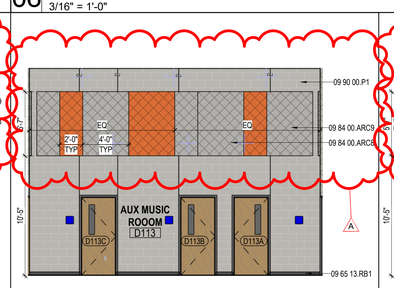
06 D111 BAND - W
3/16" = 1'-0"



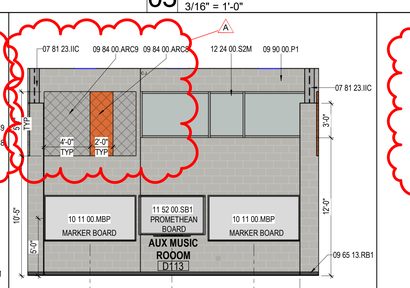
05 D111 BAND - N
3/16" = 1'-0"



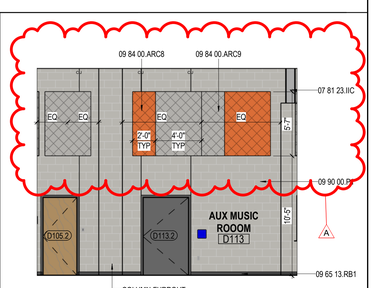
04 D113 AUX MUSIC ROOM - N
3/16" = 1'-0"



03 D113 AUX MUSIC ROOM - E
3/16" = 1'-0"



02 D113 AUX MUSIC ROOM - W
3/16" = 1'-0"



01 D113 AUX MUSIC ROOM - S
3/16" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALUZA INC
T 281-341-0808
LANDSCAPE
EDGELAND
T 713-462-0995
STRUCTURAL
KIRKSEY ENGINEERS
T 713-840-7343
MEP/T
LEAP
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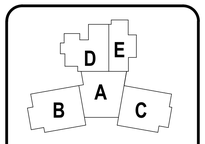
FOOD SERVICE
TBD
T 281-556-2303
BUILDING ENVELOPE
BEAM
T 713-965-0608

MIDDLE SCHOOL 8
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: KN, KMc

INTERIOR ELEVATIONS - AREA D

A-526

Plot Stamp:
10/23/2025 7:43:15 PM

ISSUE FOR PROPOSAL

INTERIOR ELEVATIONS - AREA D & AREA E

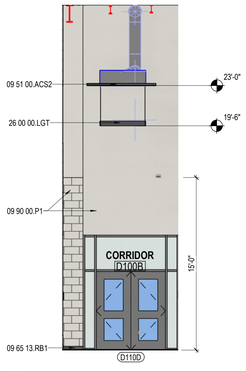
A-527

FOR BLUEBEAM LABELING/OCR:

0"
1"

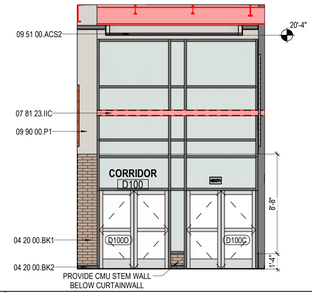
KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - FIELD BRICK
04 20 00.BK1 (L)	BRICK TYPE 1 ROWLOCK BOND
04 20 00.BK2	BRICK TYPE 2 - ACCENT BRICK
07 42 13	METAL WALL PANELS (Architectural - PBK Architects)
07 81 23.IIC	INTERIOR INTUMESCENT COATING
09 30 00.T6	TILE TYPE 6 - [WALL TILE FIELD]
09 30 00.T7	TILE TYPE 7 - [WALL TILE ACCENT]
09 51 00.ACS2	ACOUSTICAL CEILING SYSTEM, TYPE 1 - ACP-2 IN MAIN STREET W/ EXPOSED BLACK 15/16" STEEL 2X2 GRID
09 54 26.WCS1	WOOD CEILING AND WALL SYSTEM, TYPE 1 - 1100 CROSS PIECE GRILLE 1123-5
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 78 00.WPL	LAMINATED INTERIOR WALL PANELING
09 84 00.ARC6	ACOUSTIC ROOM COMPONENT TYPE 6 - WALL PANEL
09 84 00.ARC7	ACOUSTIC ROOM COMPONENT TYPE 7 - WALL PANEL
09 90 00.P1	PAINT TYPE 1 - FIELD
09 90 00.P5	PAINT TYPE 5 - SPIRIT COLOR
10 26 00.PPV1	VINYL PLASTIC SHEET PROTECTIVE WALL PANEL - ORANGE
10 44 00.FEC(P)	FIRE EXTINGUISHER CABINET, PARTIALLY-RECESSED
12 11 00.VG3	CUSTOM-FABRICATED CUT METAL GRAPHIC
12 36 00.SSB3	SOLID SURFACING BENCH - HALLWAY BENCH BY 9WOOD
22 40 00.EWC	ELECTRIC WATER COOLER, REFER TO PLUMBING
22 40 00.WBF	WATER BOTTLE FILLER, REFER TO PLUMBING
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL

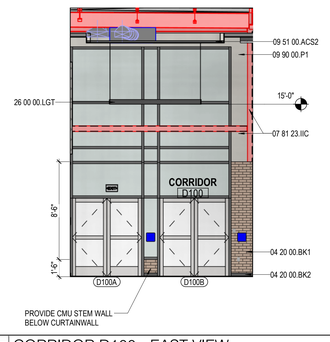


08 CORRIDOR D100B - EAST
3/16" = 1'-0"

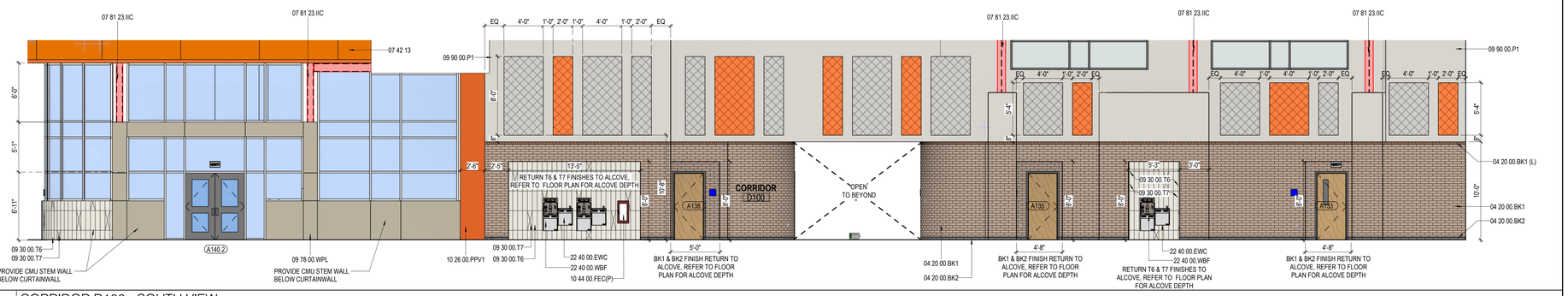
07 CORRIDOR D100B - NORTH
3/16" = 1'-0"



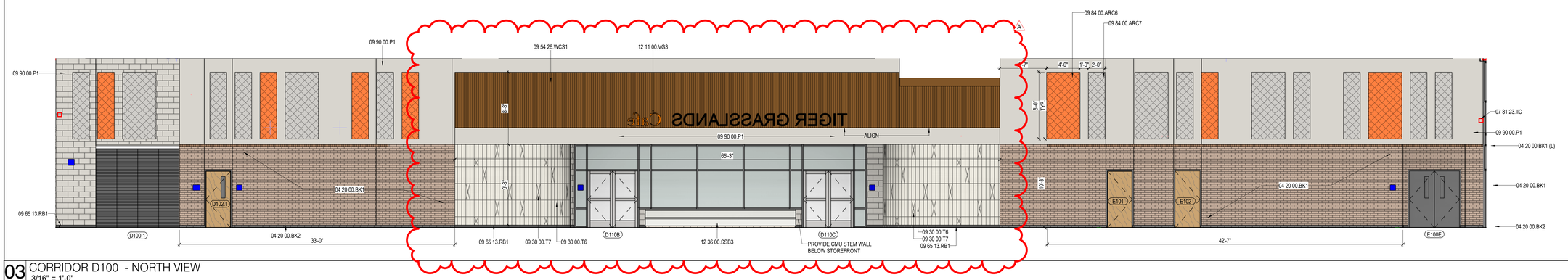
06 CORRIDOR D100 - WEST VIEW
3/16" = 1'-0"



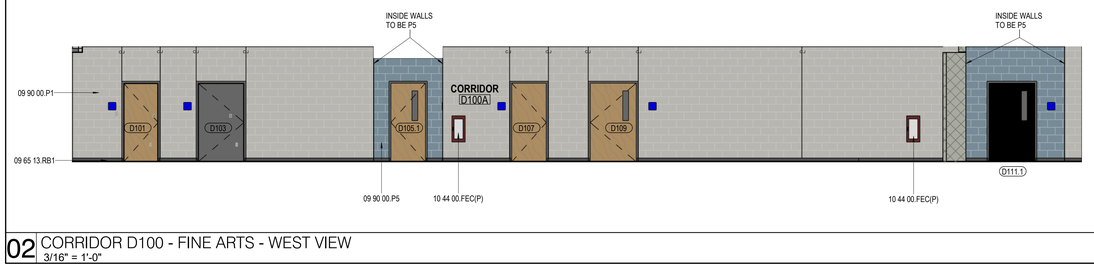
05 CORRIDOR D100 - EAST VIEW
3/16" = 1'-0"



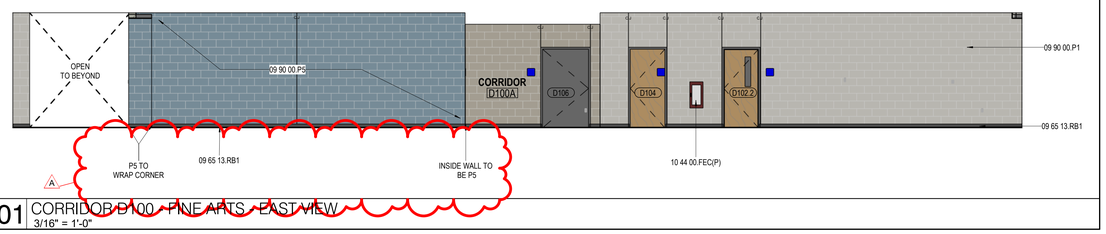
04 CORRIDOR D100 - SOUTH VIEW
3/16" = 1'-0"



03 CORRIDOR D100 - NORTH VIEW
3/16" = 1'-0"



02 CORRIDOR D100 - FINE ARTS - WEST VIEW
3/16" = 1'-0"



01 CORRIDOR D100 - FINE ARTS - EAST VIEW
3/16" = 1'-0"

Plot Stamp:
10/23/2025 7:43:30 PM

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALLOS INC
T 281-341-0808
LANDSCAPE
EDGELAND
T 713-682-1005
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FOOD SERVICE
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BUILDING ENVELOPE
BEAM
T 713-965-0008

MIDDLE SCHOOL 8
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
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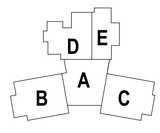


KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: KN, KMc

INTERIOR ELEVATIONS - AREA D & AREA E

A-527

WALL SECTIONS DETAILS

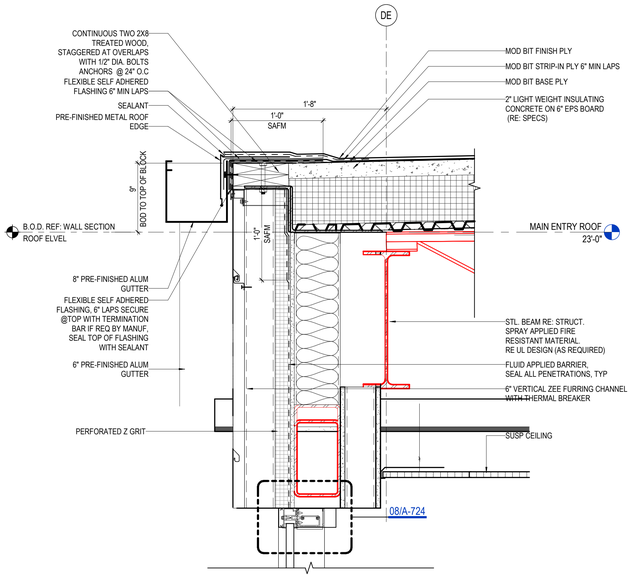
A-715

FOR BLUEBEAM LABELING/OCR:

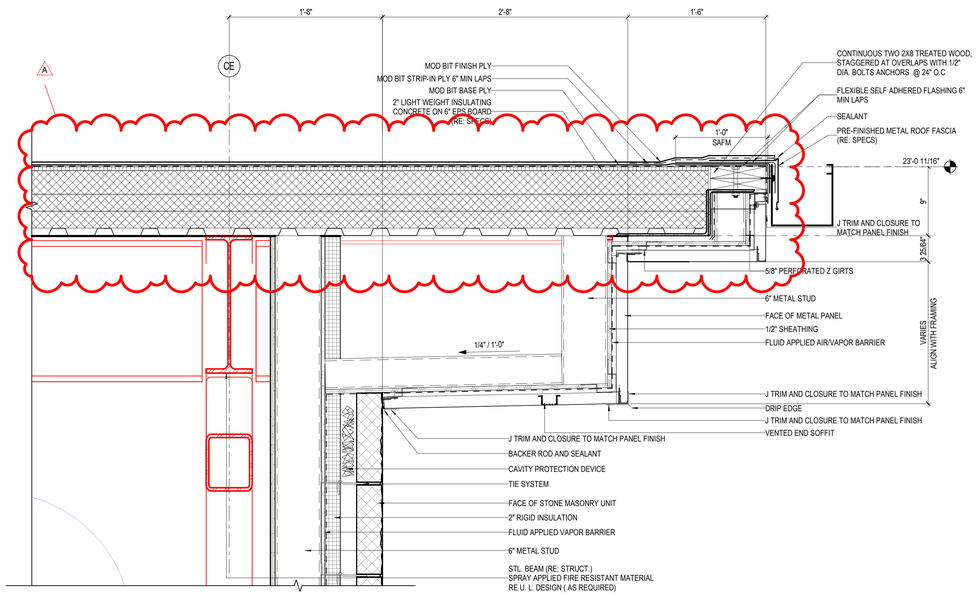
0"

1"

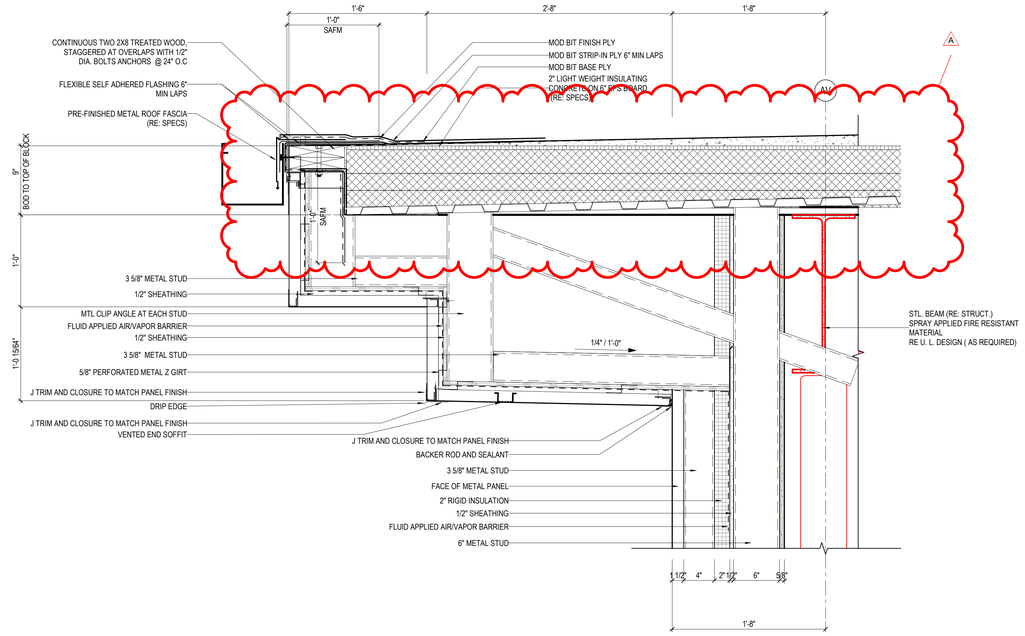
ISSUE FOR PROPOSAL



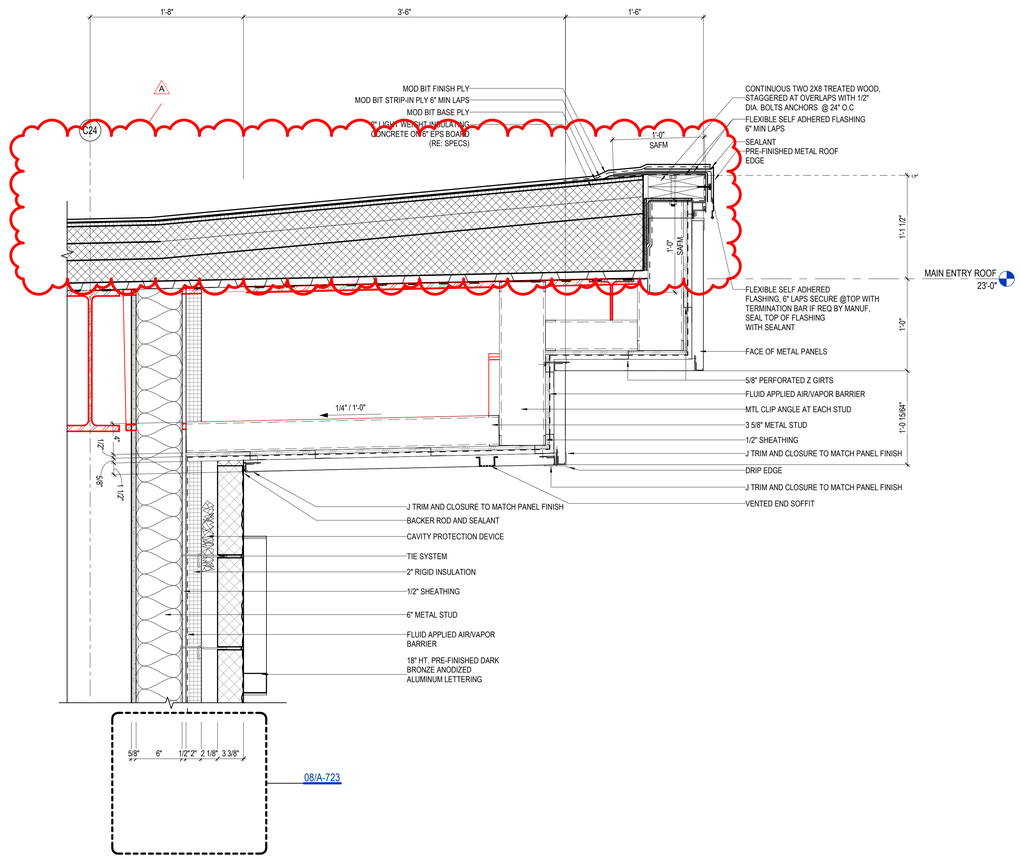
04 WALL SECTION @ AREA D MAIN STREET - Callout 1
1 1/2" = 1'-0"



03 FRONT ENTRY CANOPY @ EAST SIDE
1 1/2" = 1'-0"



02 FRONT ENTRY CANOPY @ WEST SIDE 02
1 1/2" = 1'-0"



01 FRONT ENTRY CANOPY @ SOUTH SIDE
1 1/2" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

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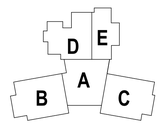
MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

WALL SECTIONS DETAILS

A-715

Plot Stamp:
10/23/2025 7:43:37 PM

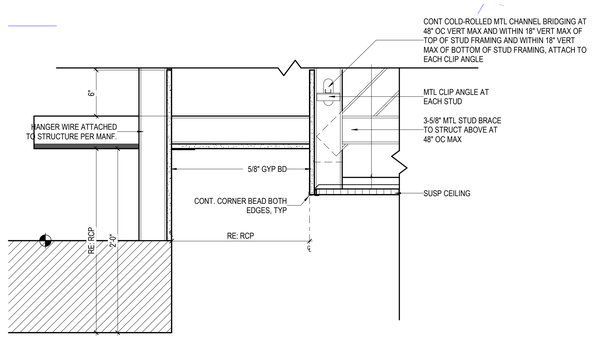
ISSUE FOR PROPOSAL

CEILING DETAILS

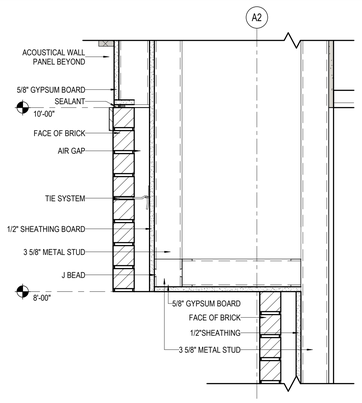
A-735

FOR BLUEBEAM LABELING/OCR:

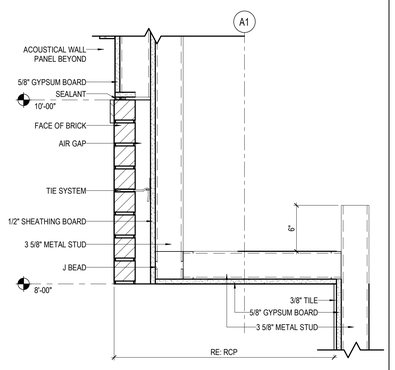
0"
1"



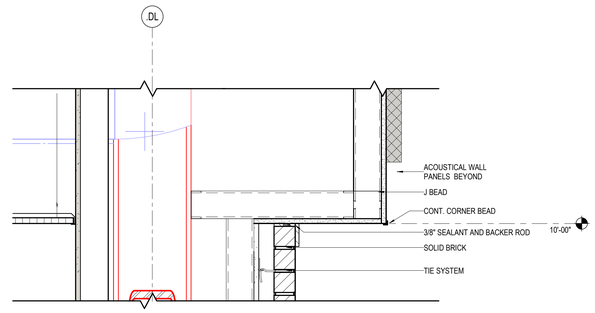
04 CEILING DETAIL @ LIBRARY CEILING
1 1/2" = 1'-0"



03 CEILING DETAIL AT SPED CLASSROOM ENTRY
1 1/2" = 1'-0"



02 CEILING DETAIL @ MAIN CORRIDOR
1 1/2" = 1'-0"



01 CEILING DETAIL @ SPED/ CORRIDOR
1 1/2" = 1'-0"

Plot Stamp:
10/23/2025 10:26:19 PM

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALLEN INC
T 281-341-0808
LANDSCAPE
EDGELAND
T 713-462-1095
STRUCTURAL
KUBENKA ENGINEERS
T 713-942-7343
MEPT
LEAF
T 713-340-3300
FOOD SERVICE
BEAN
T 281-556-2323
BUILDING ENVELOPE
BEAN
T 713-965-0608

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: JM/TC/RF/MH/OT

DRAWN BY: JB

CEILING DETAILS

A-735 A

FOR BLUEBEAM LABELING/OCR:

A-811

DOORS - WINDOWS PANEL & FRAME TYPES & DOOR SCHEDULES

ISSUE FOR PROPOSAL

DOOR SCHEDULE - 1ST FLOOR - AREA A

DOOR			PANEL				FRAME			DETAIL			GENERAL			
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
A100.1	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
A100.2	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
A100.3	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				17
A100.4	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				17
A100.5	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
A100B	12'-11 3/8"	8'-0"	OHCG	2"	WD	<By Category>	RE ELEV	HM	<By Category>	26/A-812	16/A-812	05/A-812				25, 27
A100C	12'-11 3/8"	8'-0"	OHCG	2"	HS	DBA	RE ELEV	HS	DBA	26/A-812	16/A-812	05/A-812				25, 27
A101.2	3'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				2,3
A102	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A103	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
A104.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
A104.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A104A	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A104B	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A104C	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A104D	3'-0"	6'-10"	F	1 3/4"	WH	PL-1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A105	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A106	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A107	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A108	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A109	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A109B	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A110	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A111	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A111A	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A112.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A112.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A113	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A114.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A114.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A115	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A116	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A117	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
A118	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A119	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A120	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A121	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A122	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A123	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A124	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A125	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A126	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	25/A-812	20/A-812	03/A-812				19
A127	14'-0"	14'-0"	OHCG	1 3/4"	HS	DBA	RE ELEV	HS	DBA	26/A-812	16/A-812	05/A-812				25, 27
A127.1	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
A128	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A130	6'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812	45			2
A131A.1	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A131A.2	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A131B.1	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A131B.2	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A132	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A132A	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A133	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A134	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
A135	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A136	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	25/A-812	20/A-812	03/A-812				2, 19
A138	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A140.1	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				17, 18
A140.2	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				17, 18
A140A	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
A140B	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
Grand total: 61																

DOOR SCHEDULE - 1ST FLOOR AREA B

DOOR			PANEL				FRAME			DETAIL			GENERAL			
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
B100.2	3'-11"	7'-0 1/2"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
B100A.1	6'-1 39/128"	6'-11 1/4"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
B100D.1	3'-11"	7'-0 1/2"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
B101.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B101.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B102	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B103.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B103.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B104	4'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B105	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B106	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B107	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B108	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812	45			2
B109	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B110	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
B111	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B112	6'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B113	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B115	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B116	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B117	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B118	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	25/A-812	20/A-812	03/A-812				19
B119	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B120	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
B121	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B122	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B123	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B124	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B125	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B127	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B129.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
B129.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
Grand total: 32																

DOOR SCHEDULE - 1ST FLOOR AREA C

DOOR			PANEL				FRAME			DETAIL			GENERAL			
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
C100.1	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
C100.2	4'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
C100.3	4'-1 1/4"	6'-10 1/4"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812		0		2, 15, 17
C100.4	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
C100.D	12'-0"	10'-0"			HS	DBA		Steel	DBA	26	16/A-812	05/A-812				25, 27
C100.G	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C100.H	3'-0"	6'-10"		1 3/4"				HM	P1							
C100.I	3'-0"	6'-10"		1 3/4"	WH	PL1	001									
C101.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C101.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C102	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C103.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C103.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C104	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
C105	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C106	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C107	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C108	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C109	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C110	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	25/A-812	20/A-812	03/A-812				19
C111	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C112	6'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C113	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	22/A-812	17/A-812	03/A-812				15
C115	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	22/A-812	17/A-812	03/A-812				15
C116	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812	45			2
C117	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	23/A-812	18/A-812	04/A-812				
C117	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C118	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
C119	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C120	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C121	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C122	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C123	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C124	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C125.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C125.2	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C125.3	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812	45			
C126	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				17, 18
C127	3'-0"	6'-10"		1 3/4"	ALUM	DBA	RE ELEV									
C127.1	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
C127.2	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				2
C128	3'-0"	6'-10"		1 3/4"	ALUM	DBA	RE ELEV									
C129	3'-0"	6'-8"		1 3/4"	AL	DBA										
C129.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C129.3	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	22/A-812	17/A-812	03/A-812				2
C129A	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812				
C129B	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	25/A-812	20/A-812	03/A-812	45			
Grand total: 47																

DOOR SCHEDULE - 1ST FLOOR AREA D

DOOR			PANEL				FRAME			DETAIL			GENERAL			
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
D113A	3'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D113B	3'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D113C	3'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D114	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812				2
D116	3'-0"	6'-10"	NV-1	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				19
D116A.1	3'-0"	6'-10"	NV-1	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				19
D116A.2	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	01/A-812				2, 19
Grand total: 54																

DOOR SCHEDULE - 1ST FLOOR AREA D

DOOR			PANEL				FRAME			DETAIL			GENERAL			
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
D100.1	10'-0"	10'-0"	OHCG	1 3/4"	HS	DBA	RE ELEV	HS	DBA	21/A-812	11/A--812	05/A-812				25, 27
D100A	6'-0 1/2"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
D100B	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
D100BA	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
D100BB	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
D100C	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
D100D	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
D101	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812				2
D102.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	12/A-812	07/A-812	03/A-812				2
D102.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812				2
D103	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				19
D104	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D105.1	3'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9, 17, 19
D105.2	3'-0"	6'-10"	F	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D105A	3'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	012A	HM	P1	14/A-812	09/A-812	03/A-812		50		9, 16
D105B	3'-0"	6'-10"	F	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D106	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D107	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812	45	0		2
D108	4'-0"	6'-10"	F	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D108A	3'-0"	6'-10"	F	1 3/4"	WH	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D108B	4'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D109	4'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9, 17, 19
D109A	3'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	012A	HM	P1	14/A-812	09/A-812	03/A-812		50		9, 16
D109B	3'-0"	6'-10"	F	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D110.E						_Phase Temp										25, 32 - Provide pocket door for door
D110A	4'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D110B	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				17
D110C	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				17
D110D	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	03/A-812				17
D110F	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	RE ELEV.	RE ELEV.	03/A-812				2, 17, 19
D111.1	4'-0"	6'-10"	NV-1	1 3/4"	WS	PL-1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9, 17, 19
D111.2	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	01/A-812				2, 17, 19
D111A	3'-0"	6'-10"	F	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D111B	3'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	012A	HM	P1	14/A-812	09/A-812	03/A-812		50		9, 16
D111C	4'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D111D	3'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D112.1	3'-0"	6'-10"	NV-1	1 3/4"	WH	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D112.2	3'-0"	6'-10"	NV-1	1 3/4"	WH	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D112.3	22'-4"	9'-0"	OHCG	1 3/4"	HS	DBA	00CF	HS	DBA	21/A-812	11/A--812	05/A-812				
D112A	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D112B	3'-0"	6'-10"	NV-1	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D112C	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D112D	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D112E	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	01/A-812				2, 5, 6, 19
D112G	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
D113.1	4'-0"	6'-10"	NV-1	1 3/4"	WS	PL1	001	HM	P1	14/A-812	09/A-812	03/A-812		50		9
D113.2	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	01/A-812				2, 17, 19

DOOR SCHEDULE - 1ST FLOOR AREA E

DOOR			PANEL				FRAME			DETAIL			GENERAL			
NUMBER	WIDTH	HEIGHT	TYPE	THK	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
E100A	3'-0"	6'-10"	NV-1	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
E100B	3'-0"	6'-10"	NV-1	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				
E100C	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				19
E100D	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	03/A-812				19
E100E	6'-0"	6'-10"	NV-1	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				2, 17, 19
E100F	6'-0"	6'-10"	HGIR	1 3/4"	ALUM	DBA	RE ELEV	ALUM	DBA	RE ELEV.	RE ELEV.	04/A-812				2, 17
E101	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	12/A-812	07/A-812	03/A-812				2
E102	3'-0"	6'-10"	F	1 3/4"	WH	PL1	001	HM	P1	12/A-812	07/A-812	03/A-812	45			2
E103	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				19
E104	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812				19
E105	6'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	01/A-812	45			2
E105.1	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812	90			
E106	6'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	01/A-812	90			2
E107	6'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	01/A-812	90			2
E107.2	3'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812	90			
E108	4'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812	90			
E109.1	6'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	14/A-812	09/A-812	03/A-812	90			
E109.2	6'-0"	6'-10"	F	1 3/4"	HM	P1	001	HM	P1	12/A-812	07/A-812	01/A-812	90			2
Grand total: 18																

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR
10. BLACK PLAM INSTALLED ON BOTH SIDES.
11. BLACK PLAM INSTALLED ON DRAMA CLASSROOM SIDE AND PL1 ON OTHER SIDE.
12. BLACK PLAM INSTALLED ON DRAMA CLASSROOM SIDE AND PL1 ON CORRIDOR SIDE.
13. PAINTED BLACK ON STAGE SIDE AND PAINTED P1 ON THE STORAGE SIDE.
14. BLACK PLAM INSTALLED ON STAGE SIDE AND PL1 ON OTHER SIDE.
15. ALTERNATE BID
16. CORDLESS MANUAL BLINDS
17. PANIC HARDWARE
18. ELEC. CONTROLLED ACCESS HARDWARE WITH UNLOCK/LOCK SWITCH
19. KICK PLATE

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

20. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
21. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
22. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
23. MANUAL OPERATION
24. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
25. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
26. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
27. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
28. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
29. PAINTED BLACK ON STAGE SIDE.
30. 30" ABOVE FINISHED FLOOR
31. 34" ABOVE FINISHED FLOOR
32. PANIC HARDWARE FOR MAN DOOR
33. BLACK FINISH ON BOTH SIDES
34. BLACK FINISH ON STAGE SIDE

MATERIALS LEGEND

DOORS AND WINDOWS
AL - ALUMINUM
HM - HOLLOW METAL
HG - HOLLOW METAL GALV
HS - HM24 GA. STEEL
SS - STAINLESS STEEL
DBA - DARK BRONZE ANODIZED
VL - VINYL
PL# - PLASTIC LAMINATE
WS - WOOD, SOLID CORE
WH - WOOD, HOLLOW CORE
P# - PAINTED
WM - WIRE MESH
WD - WIRE DOOR

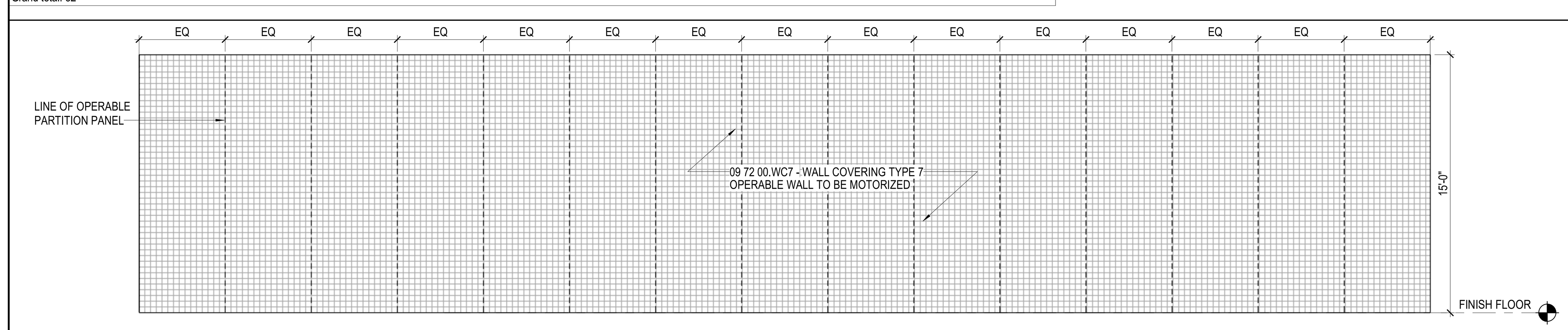
FLOORING
CP# - CARPET
VCT# - VINYL COMPOSITE TILE
PT# - PORCELAIN TILE
WGF - WOOD GYM FLOORING
SC - SEALED CONCRETE
VRF - VULCANIZED RUBBER FLOORING
ERF - EPOXY RESIN FLOORING
MS - MASONITE
WSF - WOOD STAGE FLOORING

WALL
P# - PAINTED
WC# - WALL COVERING
BK# - BRICK
ARC6 - SOUND PLY WOOD VENEER
PT# - PORCELAIN TILE
PWC# - PROTECTIVE WALL COVERING

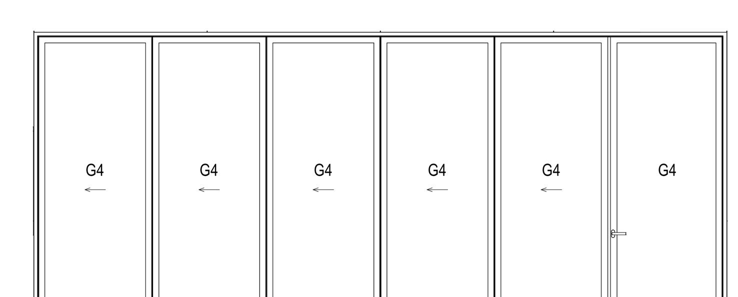
CEILING
ARC7 - PYRAMIDAL DIFFUSERS
MWP3 - METAL PANEL
ACP# - ACOUSTICAL CEILING PANELS
GBD - GYPSUM BOARD
NONE - EXPOSED STRUCTURE

GLAZING MATERIALS LEGEND

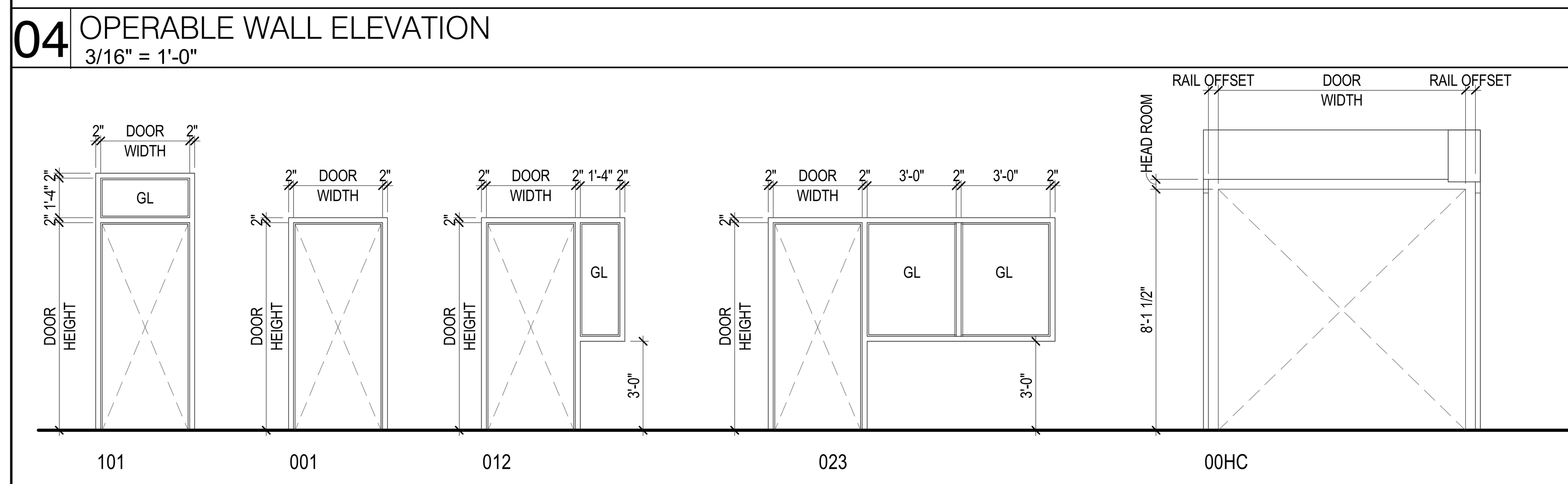
G1 - 08 80 00.G1 - THERMALLY INSULATED GLAZING UNIT, TYPE 1
G2 - 08 80 00.G2 - THERMALLY INSULATED SECURITY GLAZING UNIT, TYPE 2
G3 - 08 80 00.G3 - THERMALLY INSUALTED SPANDREL GLAZING UNIT, TYPE 3
G4 - 08 80 00.G4 - LAMINATED, TEMPERED GLAZING UNIT, TYPE 4
G5 - 08 80 00. G5 - NON-INSULATED SECURITY GLAZING UNIT, TYPE 5
G6 - 08 80 00.G6 - LAMINATED, TEMPERED SPANDREL GLAZING UNIT, TYPE 6



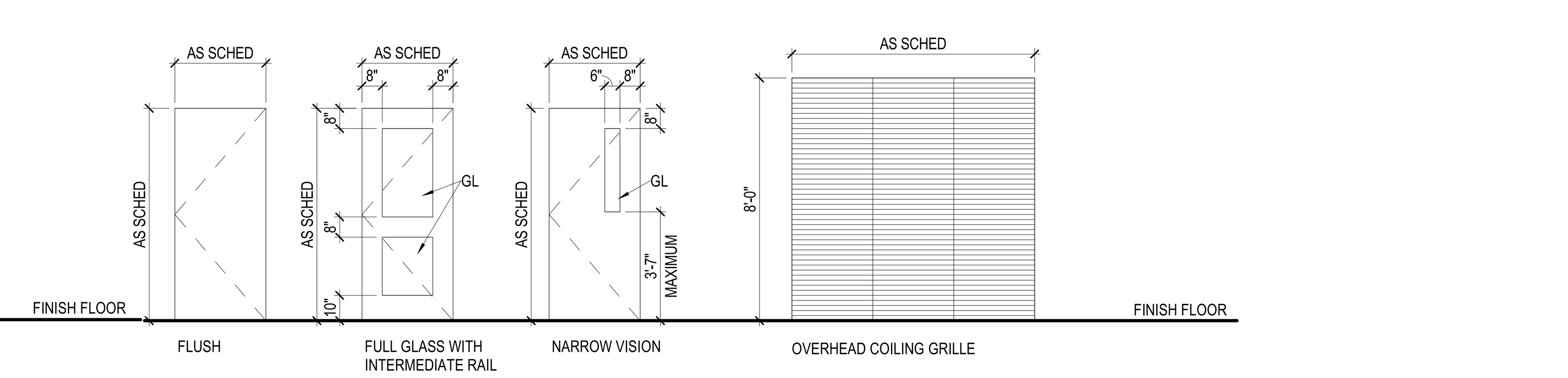
04 OPERABLE WALL ELEVATION
3/16" = 1'-0"



03 LIBRARY/ COMPUTER LAB OPERABLE PARTITION
1/4" = 1'-0"



02 DOOR FRAME CONFIGURATIONS



01 DOOR PANEL TYPES

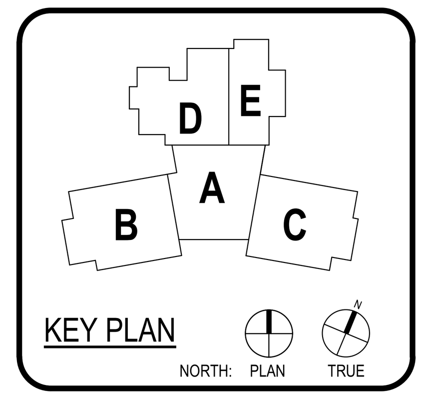
PBK

ARCHITECT — PBK Architects, Inc.
HOUSTON — PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL — KALUZA INC — T 281-341-0808
LANDSCAPE — EDGELAND — T 713-460-0988
STRUCTURAL — KUBALA ENGINEERS — T 713-940-3343
MEPT — LEAF — T 713-940-3300
FOOD SERVICE — FDP — T 281-350-2323
BUILDING ENVELOPE — BEAM — T 713-965-0608

MIDDLE SCHOOL 8
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN

2025/10/13

CLIENT	
LAMAR CONSOLIDATED ISD	
DATE 10/13/2025	PROJECT NUMBER 240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: TC, JM, RF
DRAWN BY: OT, LT

DOORS - WINDOWS PANEL & FRAME TYPES & DOOR SCHEDULES

A-811

Plot Stamp:
10/23/2025 7:43:53 PM

0"
1"

CASEWORK ELEVATION

A-844

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

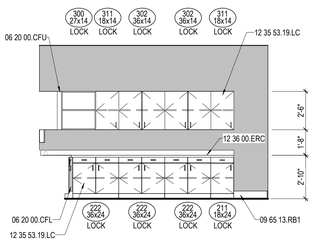
GENERAL CASEWORK NOTES

1. WHERE FIXED CASEWORK IS INSTALLED WITH ONE OR MORE SIDES AGAINST A WALL, INSTALL SPECIFIED BACKSPLASH AT THE SIDE/SIDES AGAINST THE BACK WALL.
2. WHERE CASEWORK IS DESIGNED AROUND OFCI/OFCI/OFCI EQUIPMENT, VERIFY EQUIPMENT DIMENSIONS PRIOR TO CASEWORK FABRICATION.
3. PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
4. PROVIDE BLOCKING/STRAPPING IN PARTITION PER MANUFACTURER'S RECOMMENDATION AT LOCATIONS WHERE WALL-MOUNTED CASEWORK OCCURS.
5. PROVIDE A DRIP AT THE UNDERSIDE OF COUNTERTOP/WORK SURFACE EDGES.
6. PROVIDE FINISHED BACK/SIDE PANELS TYP. WHERE THE BACK/SIDES OF CASEWORK IS LEFT EXPOSED.
7. PROVIDE FINISHED INTERIORS AT ALL OPEN SHELF CABINETS MATCHING EXTERIOR FINISH
8. AT SHELF STANDARD SYSTEMS, PROVIDE COVERS FOR ALL SUPPORT RAILS.
9. BASE CABINETS DESIGNATED WITH A WIDTH OF 24" OR LESS SHALL BE A SINGLE-DOOR CABINET/SINGLE.
10. PROVIDE FILLER PANELS TYP. TO ENCLOSE CHASE BEHIND CASEWORK WHERE THE ENDS OR BACK OFTHE CASEWORK IS EXPOSED.
11. WHERE FILLER PANELS ARE NOTED FOR BASE CABINET CONDITIONS, PROVIDE ALSO FILLER PANELS FOR RELATED GAPS AT UPPER CABINETS.
12. AT WALLS OF LABORATORY SPACES WHERE NO UPPER STORAGE IS SCHEDULED, PROVIDE MANUFACTURER'S RECOMMENDED BLOCKING/STRAPPING INSIDE WALL FOR FUTURE INSTALLATION OFSHELVING/UPPER CABINETS.
13. VERIFY LOCATION OF OFCI EQUIPMENT W/ OWNER PRIOR TO INSTALLATION TYP.
14. ANCHOR ALL TALL SHELVING SECURELY TO WALL BEHIND PER MANUFACTURER'S RECOMMENDATION.
15. AT ALL MODULAR CASEWORK, PROVIDE FILLER SHELF FOR CASEWORK THAT IS LOCATED BACK TO BACK.
16. AT COUNTERS WITH SINKS OR EYEWASH PROVIDE COUNTER WITH A PERIMETER LIP, REFER MANUFACTURER'S SPECIFICATIONS.

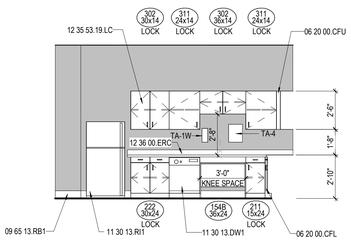
*REFER TO SPECIFICATIONS FOR ALL CASEWORK REQUIREMENTS

KEYNOTE LEGEND

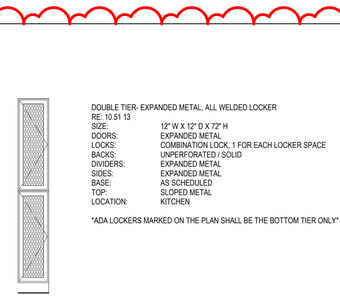
NUMBER	DESCRIPTION
06 20 00.CFL	CASEWORK FILLER LOWER, CUT TO FIT AS REQUIRED
06 20 00.CFU	CASEWORK FILLER UPPER, PROVIDE CLOSURE AT TOP AND BOTTOM AS REQUIRED
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
11 30 13.DW1	UNDERCOUNTER DISHWASHER
11 30 13.RI1	REFRIGERATOR WITH ICE MAKER (OFOI)
12 35 53.19.LC	LABORATORY CASEWORK, SIZE AS INDICATED IN DRAWINGS
12 36 00.ERC	EPOXY RESIN COUNTERTOP
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL (OFOI)
TA-4	PAPER TOWEL DISPENSER, TYPICAL (OFOI)



11 B126 SCIENCE PREP - SOUTH
1/4" = 1'-0"



10 SCIENCE PREP B126 - EAST
1/4" = 1'-0"

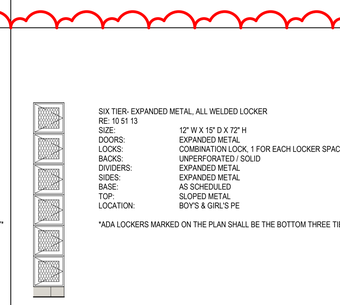


DOUBLE TIER- EXPANDED METAL, ALL WELDED LOCKER
RE: 10 51 13

SIZE:	12" W X 12" D X 72" H
DOORS:	EXPANDED METAL
LOCKS:	COMBINATION LOCK, 1 FOR EACH LOCKER SPACE
BACKS:	UNPERFORATED / SOLID
DIVIDERS:	EXPANDED METAL
SIDES:	EXPANDED METAL
BASE:	AS SCHEDULED
TOP:	SLOPED METAL
LOCATION:	KITCHEN

ADA LOCKERS MARKED ON THE PLAN SHALL BE THE BOTTOM TIER ONLY

07 TYPE A LOCKER ELEVATION
1/2" = 1'-0"

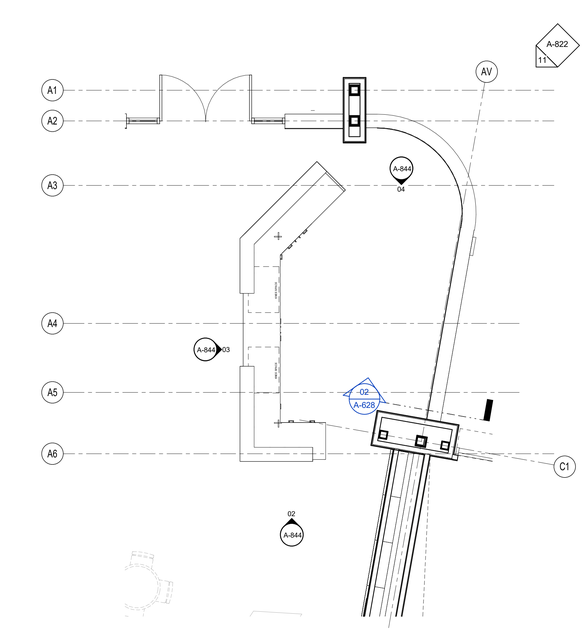


SIX TIER- EXPANDED METAL, ALL WELDED LOCKER
RE: 10 51 13

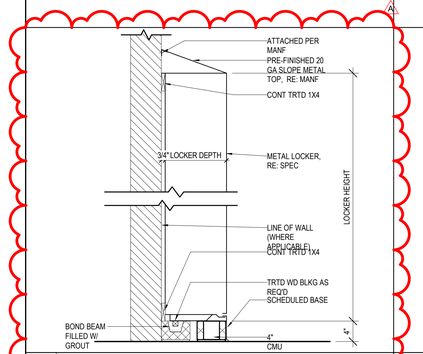
SIZE:	12" W X 15" D X 72" H
DOORS:	EXPANDED METAL
LOCKS:	COMBINATION LOCK, 1 FOR EACH LOCKER SPACE
BACKS:	UNPERFORATED / SOLID
DIVIDERS:	EXPANDED METAL
SIDES:	EXPANDED METAL
BASE:	AS SCHEDULED
TOP:	SLOPED METAL
LOCATION:	BOY'S & GIRL'S PE

ADA LOCKERS MARKED ON THE PLAN SHALL BE THE BOTTOM THREE TIERS ONLY

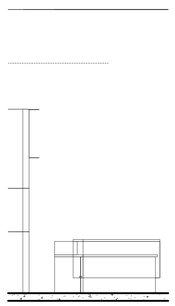
06 TYPE F LOCKER ELEVATION
1/2" = 1'-0"



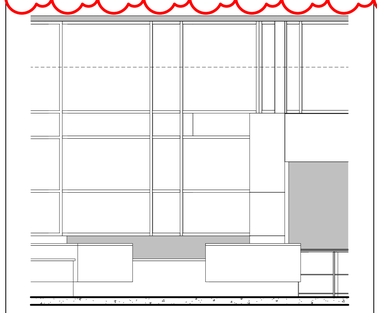
01 A140 - LIBRARY CIRCULATION DESK
1/4" = 1'-0"



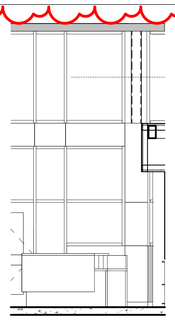
05 TYP. LOCKER SECTION
1" = 1'-0"



04 A-140 - LIBRARY DESK - SOUTH
1/4" = 1'-0"



03 A-140 - LIBRARY DESK - EAST
1/4" = 1'-0"



02 A-140 - LIBRARY DESK - NORTH
1/4" = 1'-0"

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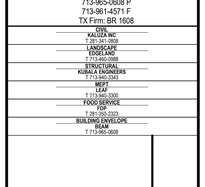
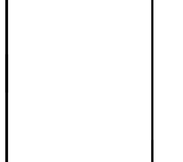


KEY PLAN
NORTH: PLAN TRUE



2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: TC, JM

DRAWN BY: A.POGUE

CASEWORK ELEVATION

A-844

Plot Stamp:
10/23/2025 7:44:00 PM

ISSUE FOR PROPOSAL

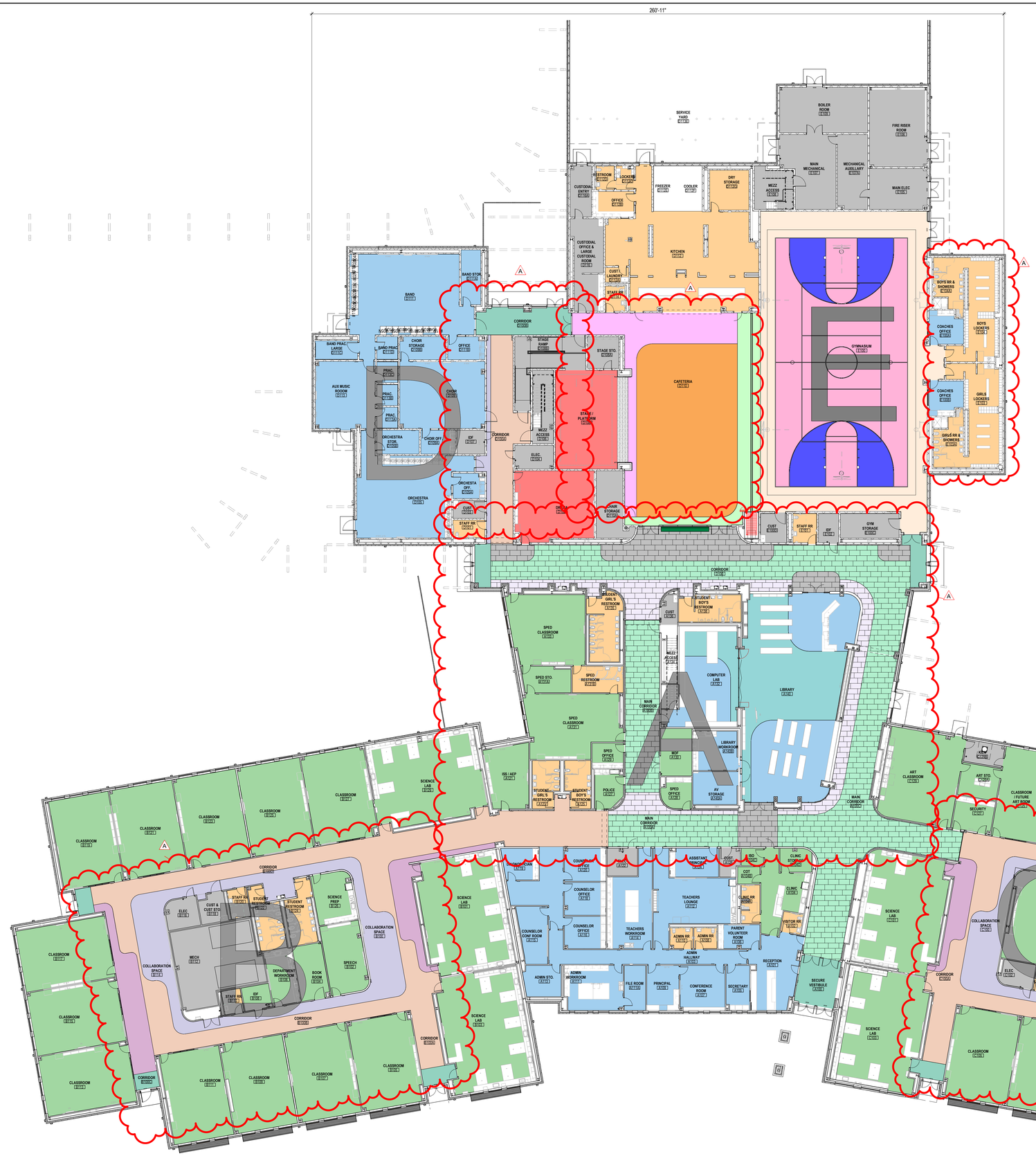
1ST FLOOR OVERALL FINISH PLAN

A-901

FOR BLUEBEAM LABELING/OCR:

0"

1"



FLOOR FINISH LEGEND

- **09 65 00.RFT1** VINYL COMPOSITION TILE
- **09 65 00.RFT1/2/3/4** VINYL COMPOSITION TILE; SEE TYP. CLASSROOM FLOORING
- **09 65 00.RFT5** VINYL COMPOSITION TILE
- **09 67 00.FF1** EPOXY FLOORING
- **09 65 66.PRA1** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA2** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA3** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA4** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA5** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA6** RESILIENT ATHLETIC FLOORING
- **09 65 13.RSR** RUBBER TREAD & RISER
- **12 36 00.SSB1/SSB2** SOLID SURFACE BENCH
- **09 30 00.T1** PORCELAIN TILE
- **09 30 00.T2** PORCELAIN TILE
- **09 30 00.T3** PORCELAIN TILE
- **09 30 00.T5** PORCELAIN TILE
- **09 30 00.T15** PORCELAIN TILE
- **09 68 00.CP1** CARPET
- **09 68 00.CP2** CARPET
- **09 68 00.CP3** CARPET
- **03 35 00.SC** SEALED CONCRETE
- **06 64 29.WSP** WOOD PLANK

01 1ST LEVEL - FLOOR OVERALL FINISH PLAN
1/16" = 1'-0"

Plot Stamp:
10/23/2025 7:44:14 PM

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32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

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KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT MICHAEL HOUSE 28012 STATE OF TEXAS
2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: KMc

1ST FLOOR OVERALL FINISH PLAN

A-901

0"
1"

1ST FLOOR FINISH PLAN - AREA A
A-901A
FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL

01 1ST LEVEL - FLOOR FINISH PLAN - AREA A
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE F3 & M4 U.N.O. REFER TO DIMENSIONAL PLANS FOR WALL TAGS.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3, M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

FLOOR FINISH LEGEND

- **09 65 00.RFT1** VINYL COMPOSITION TILE
- **09 65 00.RFT1/2/3/4** VINYL COMPOSITION TILE; SEE TYP. CLASSROOM FLOORING
- **09 65 00.RFT5** VINYL COMPOSITION TILE
- **09 67 00.FF1** EPOXY FLOORING
- **09 65 66.PRA1** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA2** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA3** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA4** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA5** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA6** RESILIENT ATHLETIC FLOORING
- **09 65 13.RSR** RUBBER TREAD & RISER
- **12 36 00.SSB1/SSB2** SOLID SURFACE BENCH
- **09 30 00.T1** PORCELAIN TILE
- **09 30 00.T2** PORCELAIN TILE
- **09 30 00.T3** PORCELAIN TILE
- **09 30 00.T5** PORCELAIN TILE
- **09 30 00.T15** PORCELAIN TILE
- **09 68 00.CP1** CARPET
- **09 68 00.CP2** CARPET
- **09 68 00.CP3** CARPET
- **03 35 00.SC** SEALED CONCRETE

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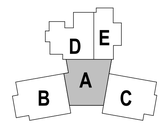

KEY PLAN NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: KMc

1ST FLOOR FINISH PLAN - AREA A

A-901A

Plot Stamp:
10/23/2025 10:26:43 PM

0"
1"

1ST FLOOR FINISH PLAN - AREA B

A-901B

FOR BLUEBEAM LABELING/DOCR:

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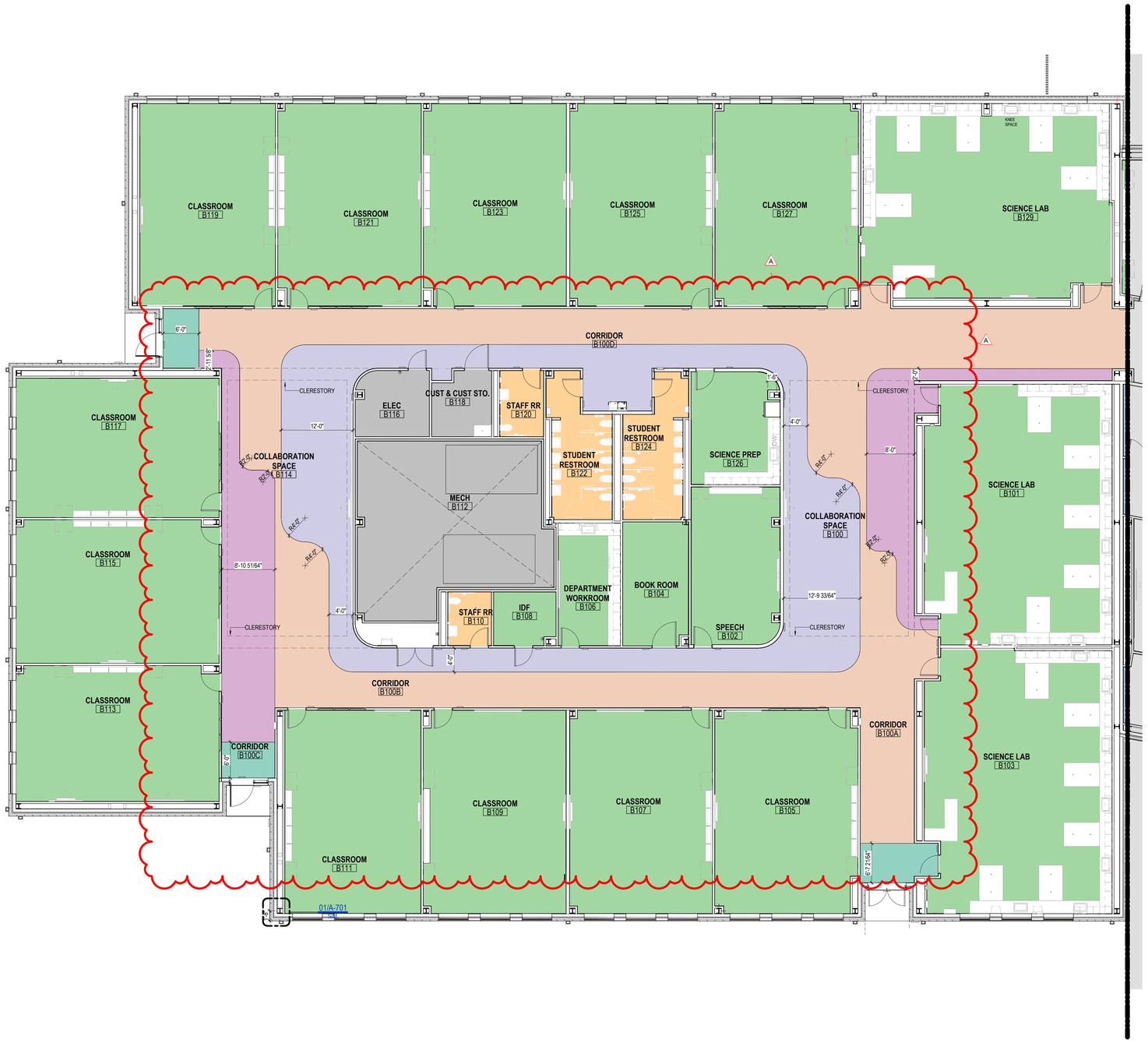

01 1ST LEVEL - FLOOR FINISH PLAN - AREA B
1/8" = 1'-0"

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- **09 67 00.FF1** EPOXY FLOORING
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- **09 65 66.PRA3** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA4** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA5** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA6** RESILIENT ATHLETIC FLOORING
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- **09 30 00.T3** PORCELAIN TILE
- **09 30 00.T5** PORCELAIN TILE
- **09 30 00.T15** PORCELAIN TILE
- **09 68 00.CP1** CARPET
- **09 68 00.CP2** CARPET
- **09 68 00.CP3** CARPET
- **03 35 00.SC** SEALED CONCRETE

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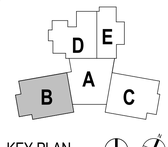
LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN NORTH: PLAN TRUE

2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker

DRAWN BY: KMc

1ST FLOOR FINISH PLAN - AREA B

A-901B

Plot Stamp:
10/23/2025 10:26:58 PM

0"
1"

1ST FLOOR FINISH PLAN - AREA C
A-901C
FOR BLUEBEAM LABELING/DOCR:

ISSUE FOR PROPOSAL

01 1ST LEVEL - FLOOR FINISH PLAN - AREA C
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE F3 & M4 U.N.O. REFER TO DIMENSIONAL PLANS FOR WALL TAGS.
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11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

FLOOR FINISH LEGEND

- **09 65 00.RFT1** VINYL COMPOSITION TILE
- **09 65 00.RFT1/2/3/4** VINYL COMPOSITION TILE; SEE TYP. CLASSROOM FLOORING
- **09 65 00.RFT5** VINYL COMPOSITION TILE
- **09 67 00.FF1** EPOXY FLOORING
- **09 65 66.PRA1** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA2** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA3** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA4** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA5** RESILIENT ATHLETIC FLOORING
- **09 65 66.PRA6** RESILIENT ATHLETIC FLOORING
- **09 65 13.RSR** RUBBER TREAD & RISER
- **12 36 00.SSB1/SSB2** SOLID SURFACE BENCH
- **09 30 00.T1** PORCELAIN TILE
- **09 30 00.T2** PORCELAIN TILE
- **09 30 00.T3** PORCELAIN TILE
- **09 30 00.T5** PORCELAIN TILE
- **09 30 00.T15** PORCELAIN TILE
- **09 68 00.CP1** CARPET
- **09 68 00.CP2** CARPET
- **09 68 00.CP3** CARPET
- **03 35 00.SC** SEALED CONCRETE

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BEAM
T 713-965-0808

MIDDLE SCHOOL 8
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT MICHAEL HOUSE 28012 STATE OF TEXAS
2025/10/13

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: KMc

1ST FLOOR FINISH PLAN - AREA C

A-901C

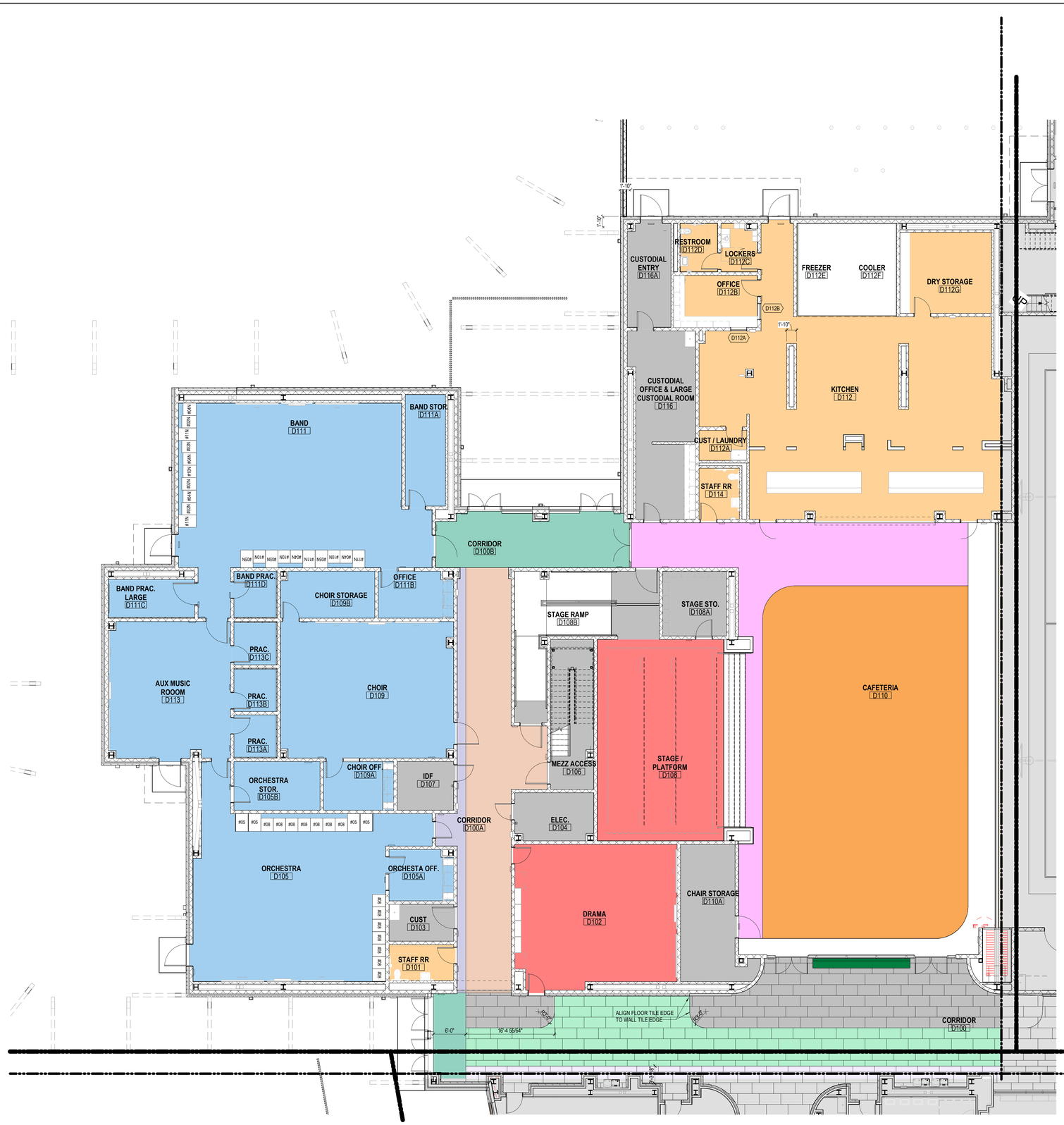
Plot Stamp:
10/23/2025 10:27:12 PM

0"
1"

1ST FLOOR FINISH PLAN - AREA D
A-901D
FOR BLUEBEAM LABELING/OCR:

PROPOSAL

ISSUE FOR P



01 1ST LEVEL - FLOOR FINISH PLAN - AREA D
1/8" = 1'-0"

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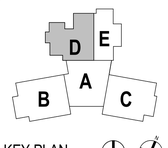
LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

CHECKED BY: Checker
DRAWN BY: KMc

1ST FLOOR FINISH PLAN - AREA D

A-901D

Plot Stamp:
10/23/2025 10:27:27 PM

1ST FLOOR FINISH PLAN - AREA E

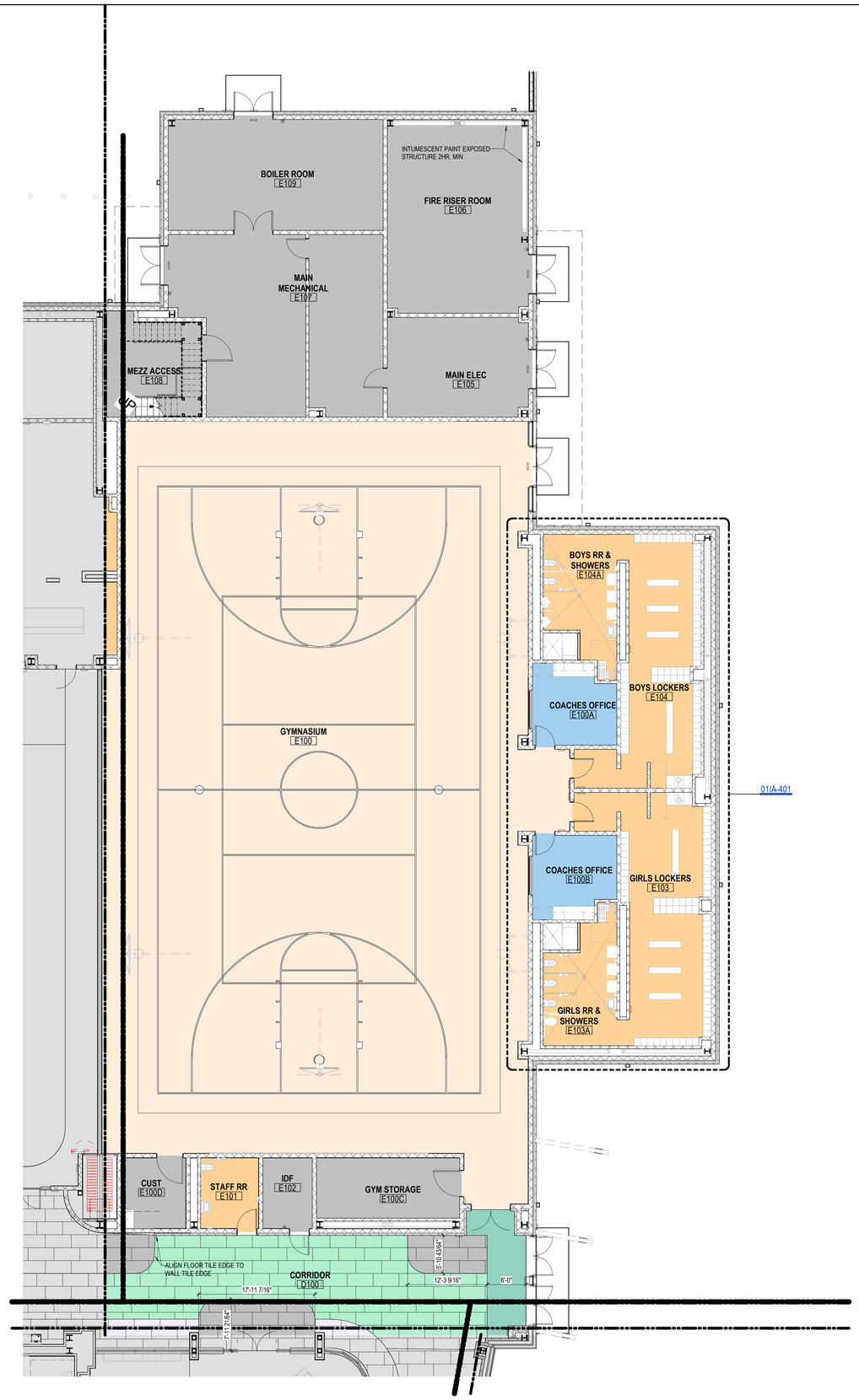
A-901E

FOR BLUEBEAM LABELING/OCR:

0"

1"

ISSUE FOR PROPOSAL



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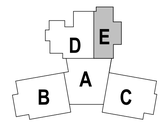
MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN NORTH: PLAN TRUE

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
10/13/2025	240541

DRAWING HISTORY

No.	Description	Date
A	Addendum 1	10.23.25

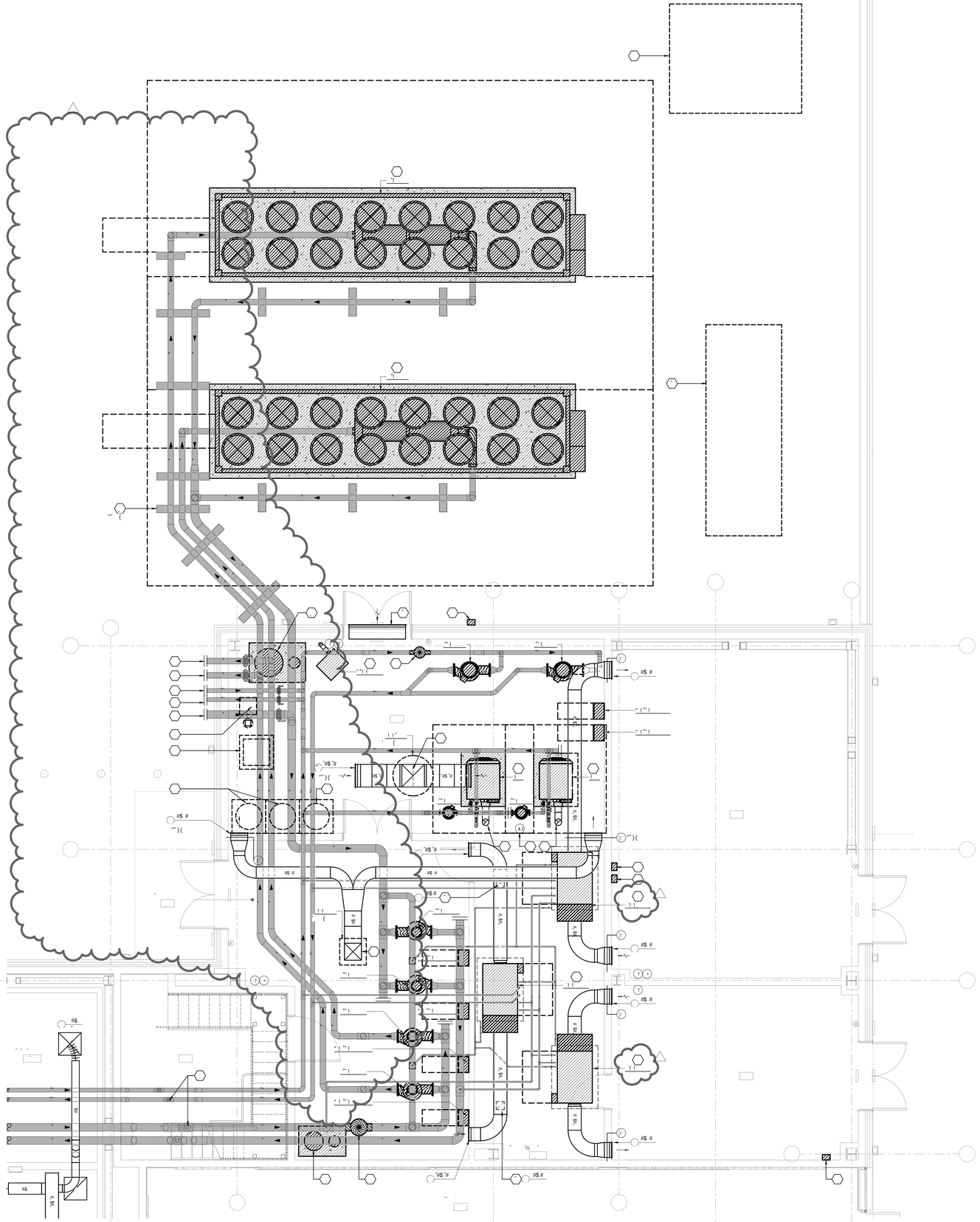
CHECKED BY: Checker

DRAWN BY: KMc

1ST FLOOR FINISH PLAN - AREA E

A-901E

Plot Stamp:
10/23/2025 10:27:31 PM



PBK

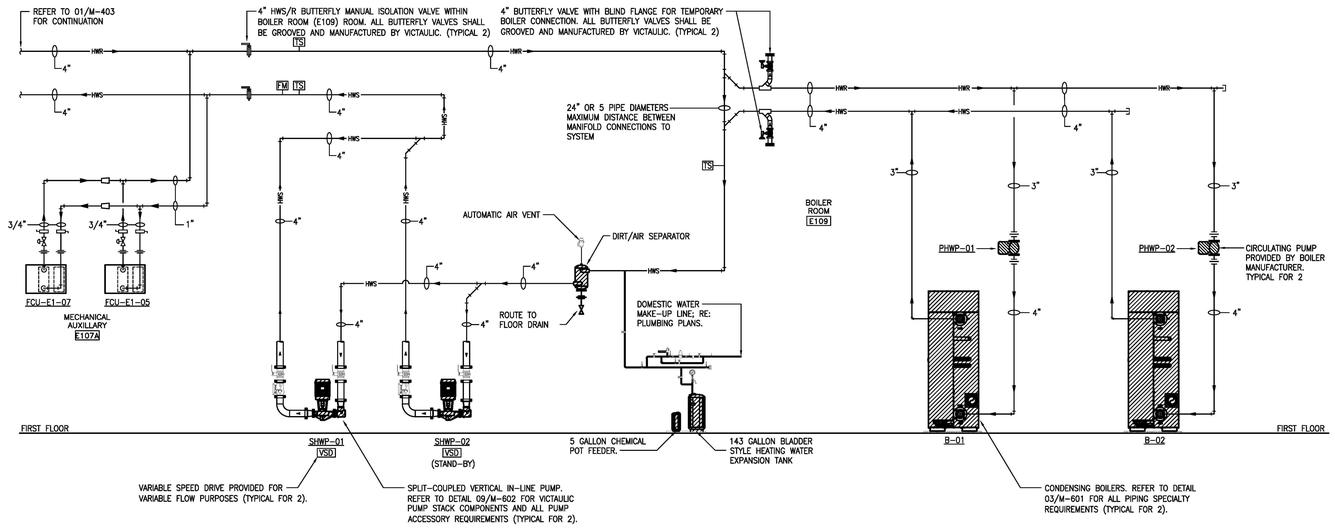
LEAF ENGINEERS

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

0"
1"

ISSUE FOR PROPOSAL

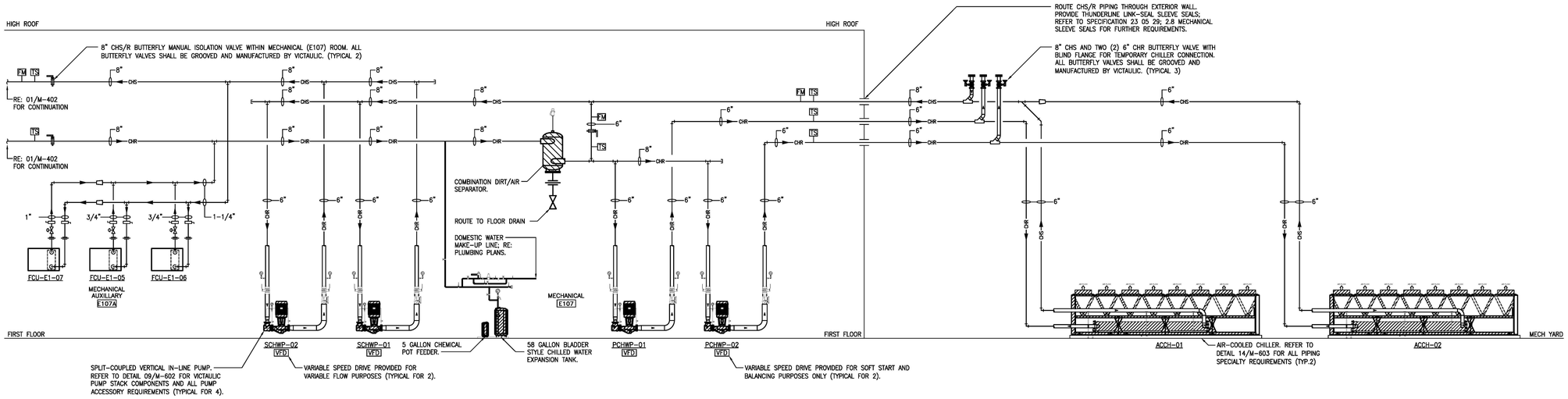
MECHANICAL CENTRAL PLANT PIPING DIAGRAM
M-401
FOR BLUEBEAM LABELING/DOOR:



02 MECHANICAL HEATING WATER CENTRAL PLANT PIPING DIAGRAM
SCALE: NONE

NOTES:

- ALL EXPOSED PIPING INTERIOR AND EXTERIOR SHALL BE PAINTED. INTERIOR COLOR SHALL BE PER SPECIFICATION SECTION 23 05 53.
- ALL BUTTERFLY ISOLATION VALVES IN THE CENTRAL PLANT SHALL BE MANUFACTURED BY VICTAULIC.



01 MECHANICAL CHILLED WATER CENTRAL PLANT PIPING DIAGRAM
SCALE: NONE

1 MECHANICAL CENTRAL PLANT PIPING DIAGRAM
SCALE: NONE

Plot Stamp:
10/23/2025 12:48:19 PM

PBK

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LEAF
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RDH
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ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

D E B A C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
2025/10/13
LEAF ENGINEERS
F-16672

CLIENT
LAMAR CONSOLIDATED ISD
DATE 2025/10/13
PROJECT NUMBER 240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: Checker
DRAWN BY: Author

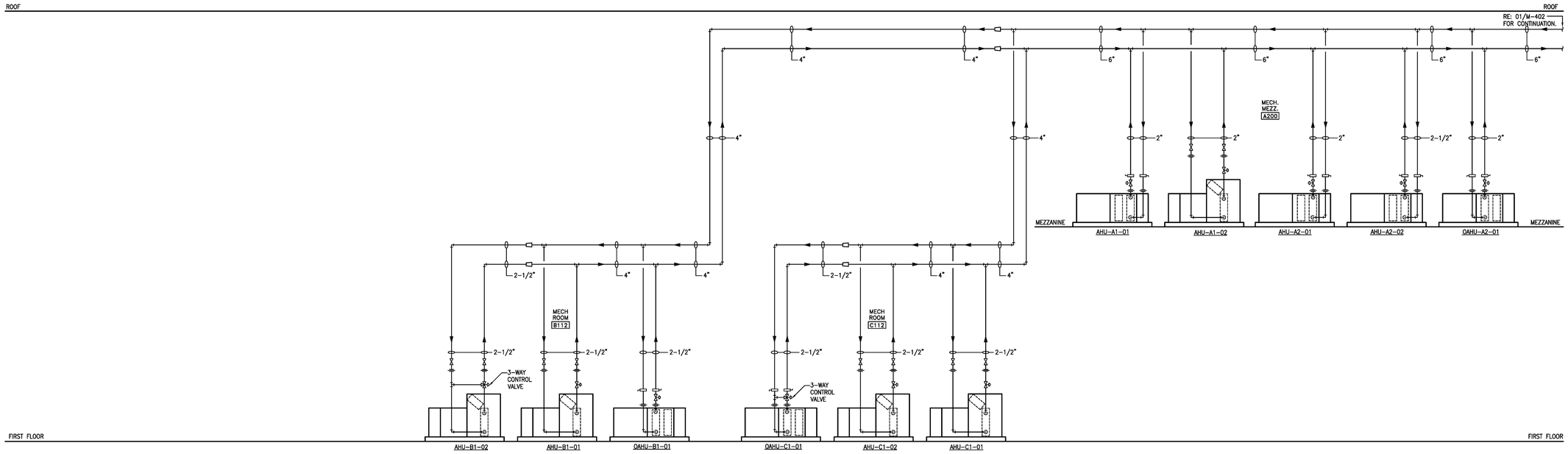
MECHANICAL CENTRAL PLANT PIPING DIAGRAM

M-401

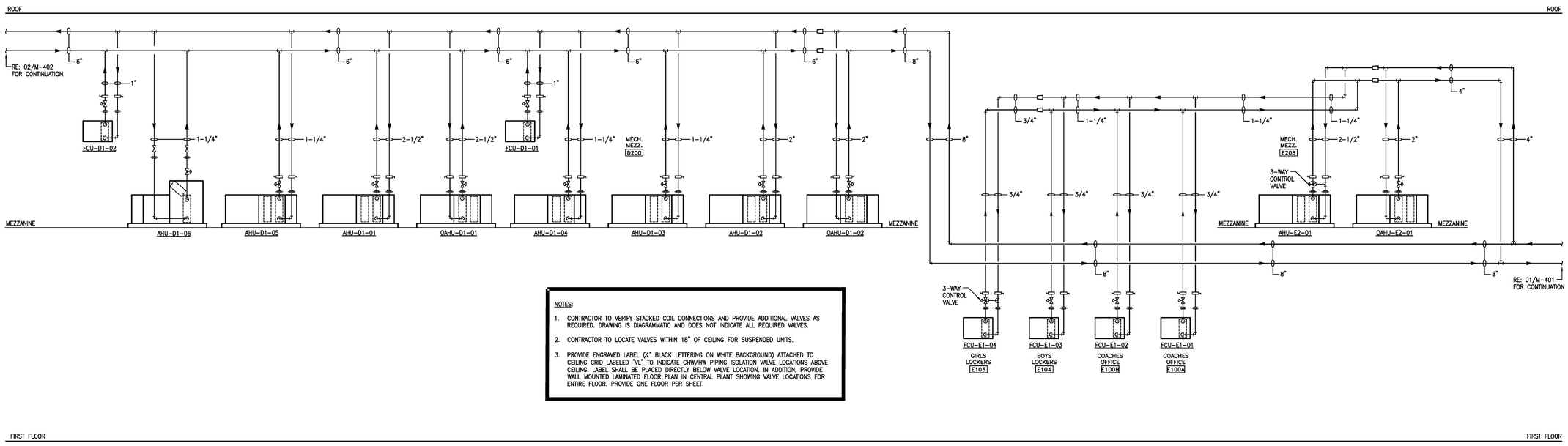
ISSUE FOR PROPOSAL

MECHANICAL CHILLED WATER PIPING DIAGRAM
M-402
FOR BLUEBEAM LABELING/OCR:

0"
1"



02 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE



NOTES:

1. CONTRACTOR TO VERIFY STACKED COIL CONNECTIONS AND PROVIDE ADDITIONAL VALVES AS REQUIRED. DRAWING IS DIAGRAMMATIC AND DOES NOT INDICATE ALL REQUIRED VALVES.
2. CONTRACTOR TO LOCATE VALVES WITHIN 18" OF CEILING FOR SUSPENDED UNITS.
3. PROVIDE ENGRAVED LABEL (¼" BLACK LETTERING ON WHITE BACKGROUND) ATTACHED TO CEILING GRID LABELED "VL" TO INDICATE CHW/HW PIPING ISOLATION VALVE LOCATIONS ABOVE CEILING. LABEL SHALL BE PLACED DIRECTLY BELOW VALVE LOCATION. IN ADDITION, PROVIDE WALL MOUNTED LAMINATED FLOOR PLAN IN CENTRAL PLANT SHOWING VALVE LOCATIONS FOR ENTIRE FLOOR. PROVIDE ONE FLOOR PER SHEET.

01 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE

1 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE

Plot Stamp:
10/23/2025 12:28:37 PM

PBK

ARCHITECT PBK Architects, Inc.
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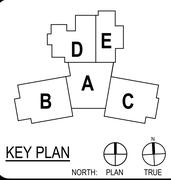
EDGELAND
T 713-462-0995
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAF
T 713-343-3300
FOOD SERVICE
T 281-556-2323
BUILDING ENVELOPE
RDAI
T 713-965-9008

LEAF ENGINEERS

MIDDLE SCHOOL 8
32820 TIGER RUN BLVD, BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE

2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: Checker
DRAWN BY: Author

MECHANICAL CHILLED WATER PIPING DIAGRAM

M-402

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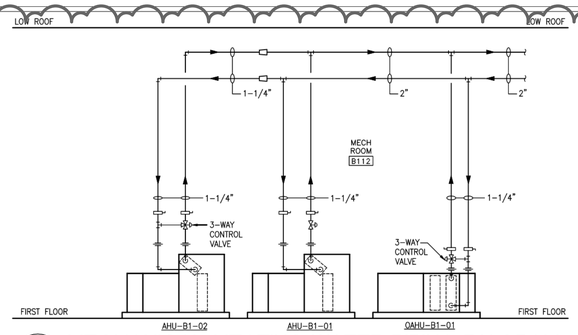
MECHANICAL HEATING WATER PIPING DIAGRAM

M-403

FOR BLUEBEAM LABELING/OCR:

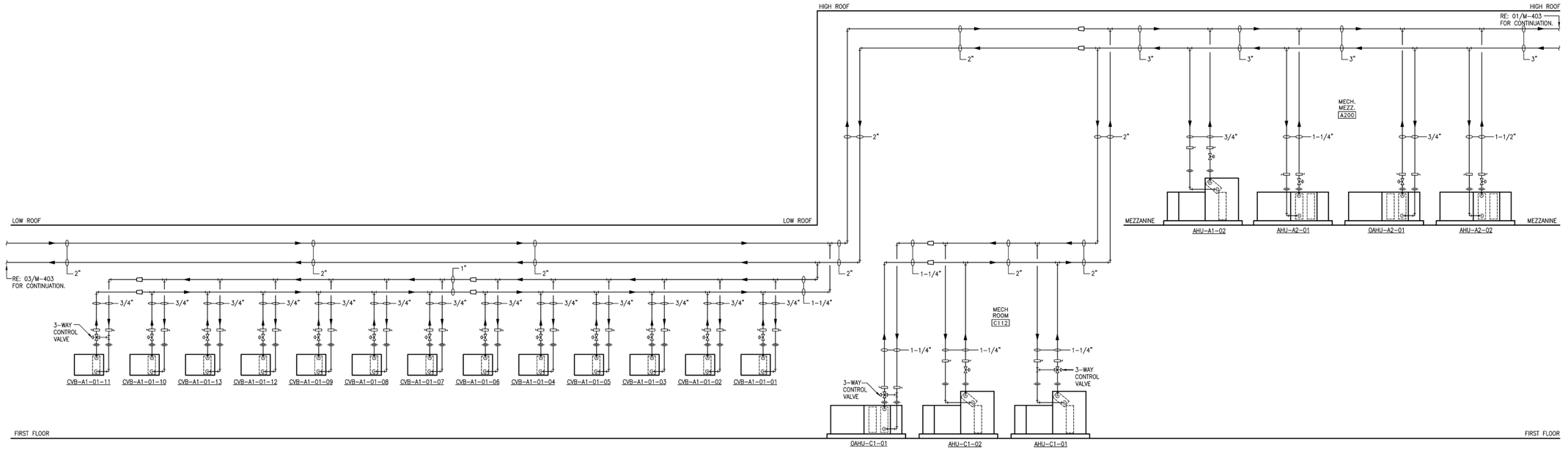
0"

1"



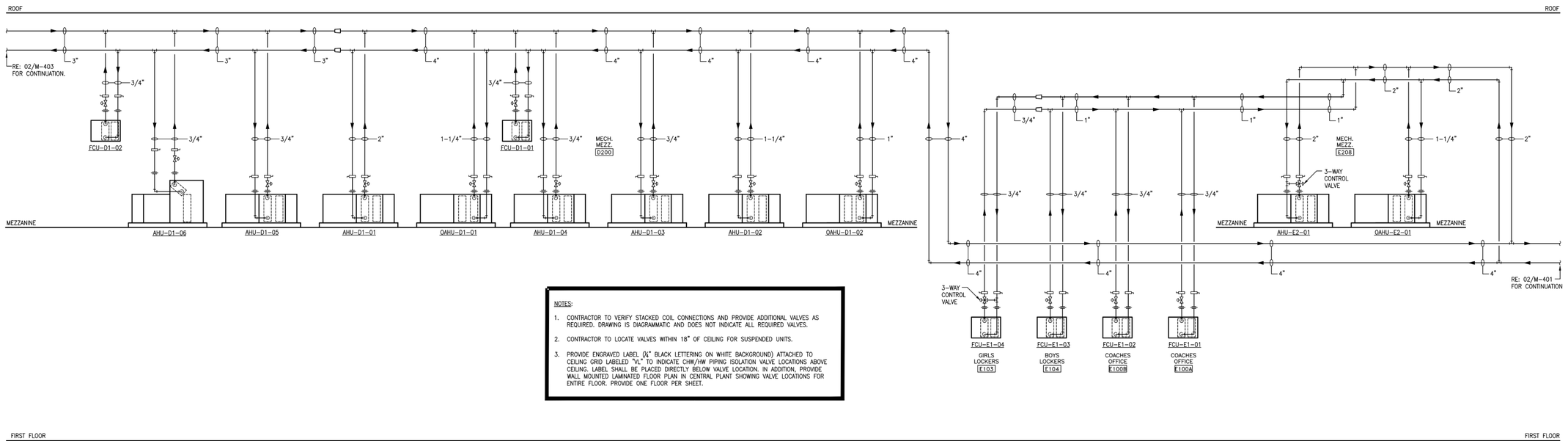
03 MECHANICAL HEATING WATER PIPING DIAGRAM

SCALE: NONE



02 MECHANICAL HEATING WATER PIPING DIAGRAM

SCALE: NONE



NOTES:

1. CONTRACTOR TO VERIFY STACKED COIL CONNECTIONS AND PROVIDE ADDITIONAL VALVES AS REQUIRED. DRAWING IS DIAGRAMMATIC AND DOES NOT INDICATE ALL REQUIRED VALVES.
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01 MECHANICAL HEATING WATER PIPING DIAGRAM

SCALE: NONE

1 MECHANICAL HEATING WATER PIPING DIAGRAM

SCALE: NONE

Plot Stamp:
10/23/2025 7:10:38 PM

PBK

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LEAF ENGINEERS

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD, BROOKSHIRE, TX 77423

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LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

D E B A C

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
2025/10/13
LEAF ENGINEERS
F-10672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

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A	ADDENDUM 01	10/23/2025

CHECKED BY: Checker

DRAWN BY: Author

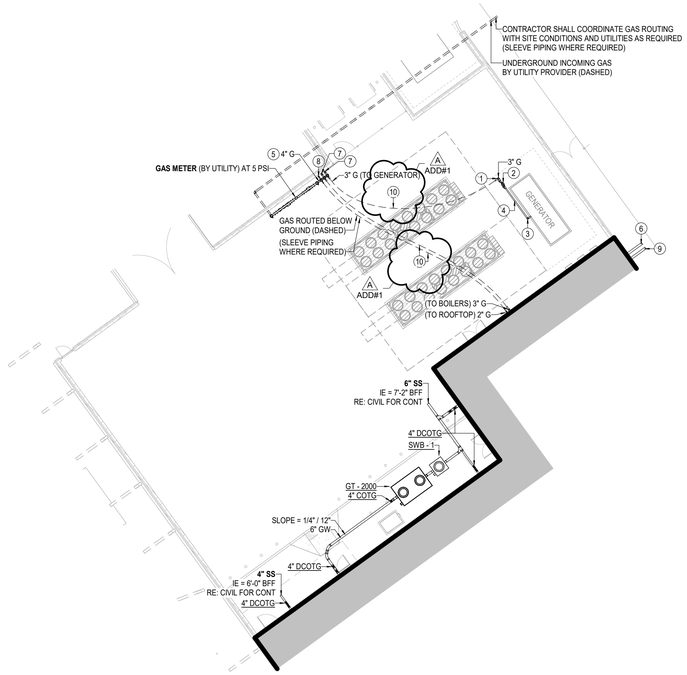
MECHANICAL HEATING WATER PIPING DIAGRAM

M-403

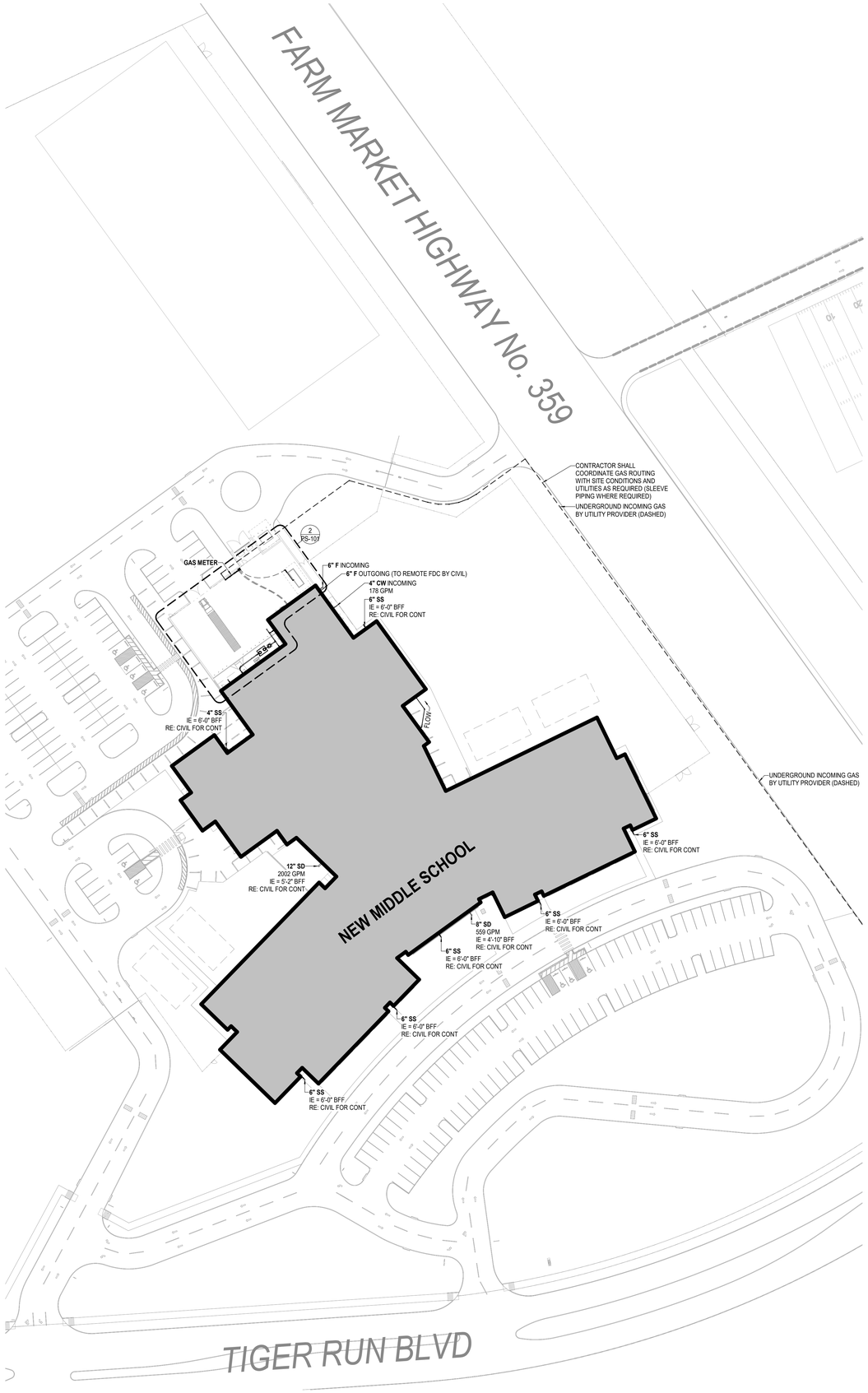
ISSUE FOR PROPOSAL

PLUMBING SITE PLAN
PS-101
FOR BLUEBEAM LABELING/OCR:

0"
1"



2 PLUMBING SITE PLAN - ENLARGED SERVICE YARD
1/16" = 1'-0"



1 PLUMBING SITE PLAN
1" = 50'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DCOTG) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 3" GAS UP.

2 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE, INSTALLED AS PER THE SPECIFICATIONS. VENT REGULATOR TO EXTERIOR AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

3 CONNECT TO EQUIPMENT, VERIFY LINE SIZE WITH MANUFACTURER INSTALL REQUIREMENTS PRIOR TO FINAL CONNECTION(S). PROVIDE ACCESSIBLE FULL LINE-SIZE SHUT-OFF VALVE.

4 PROVIDE GAS ACCUMULATION EXPANSION PIPE AT GENERATOR INLET, OR PROVIDE PER MANUFACTURER INSTALL GUIDELINES TO ENSURE PIPING CONFIGURATION DOES NOT STARVE THE EQUIPMENT AT START-UP.

5 BAS CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL GAS FLOW METER AT INCOMING NATURAL GAS MAIN (CUSTOMER-SIDE OF METER) AND INSTALL AS PER SPECIFICATIONS. COORDINATE BAS CONNECTION(S) WITH DIV 23 AND DIV 26 AS REQ'D.

6 INCOMING 6" FIRE WATER ENTRY, RE: CIVIL DRAWING FOR SITE ROUTING.

7 3" GAS DOWN.

8 2" GAS DOWN.

9 INCOMING 6" FIRE WATER FROM REMOTE FIRE DEPARTMENT CONNECTION, RE: CIVIL PLAN FOR EXACT LOCATION.

10 COORDINATE UNDERGROUND GAS ROUTING AND INSTALL WITH CIVIL SITE UTILITIES AND PROVIDING SLEEVING AS REQ'D.

PBK

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MIDDLE SCHOOL 8
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC
DRAWN BY: SC

PLUMBING SITE PLAN

PS-101

Plot Stamp:
10/22/2025 1:19:38 PM

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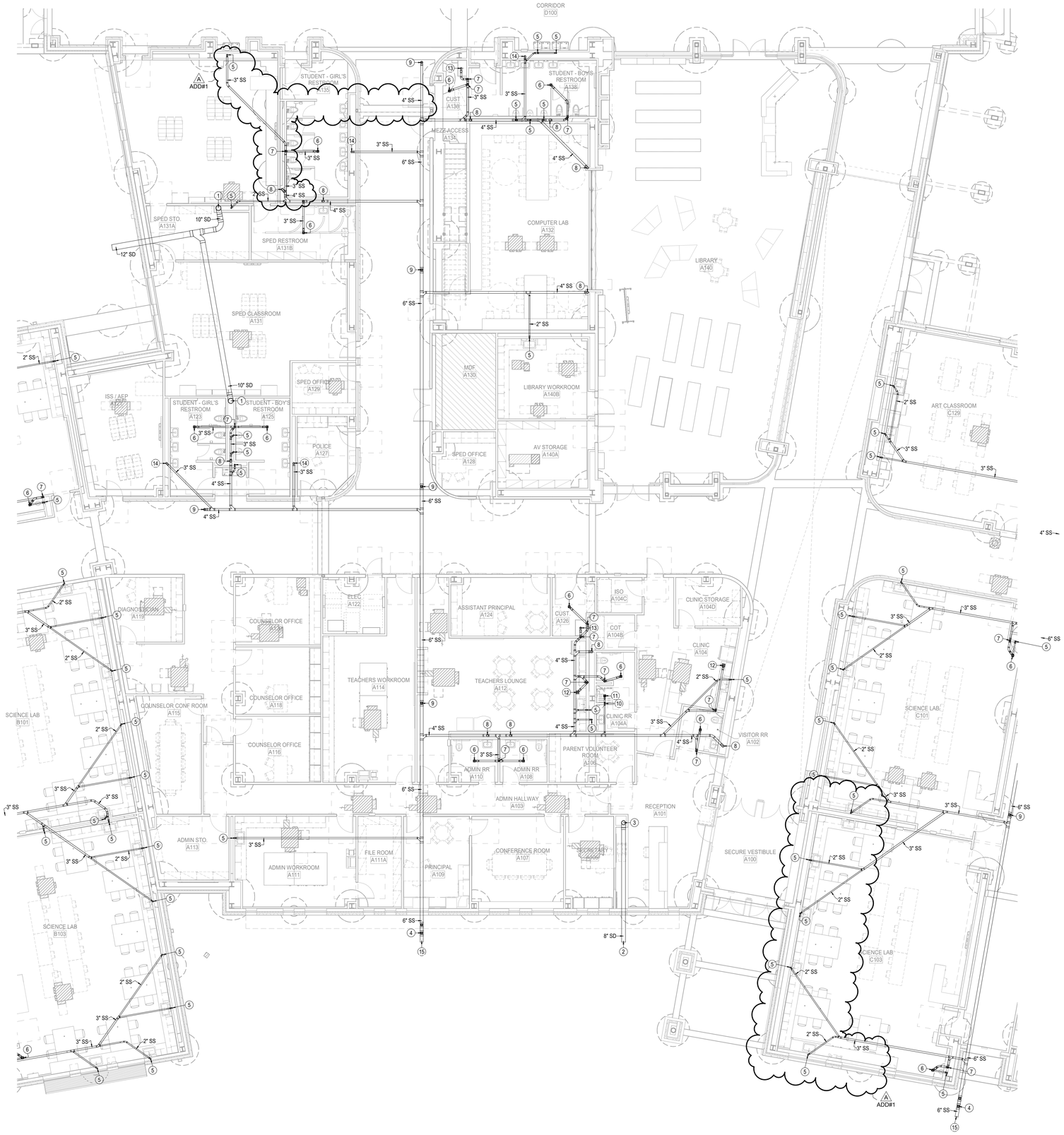
1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA A

PU-101A

FOR BLUEBEAM LABELING/OCR:



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DCOTG) ON ALL SANITARY LINES EXITING THE BUILDING.

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J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 10" STORM WASTE DOWN FROM ABOVE.

2 OUTGOING 8" STORM WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

3 8" STORM WASTE DOWN FROM ABOVE.

4 4" WASTE DOWN FROM DOUBLE CLEANOUT TO GRADE.

5 2" WASTE DOWN FROM ABOVE.

6 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

7 3" WASTE DOWN AND 2' VENT UP.

8 4" WASTE DOWN FROM ABOVE.

9 4" WASTE DOWN FROM FLOOR CLEANOUT.

10 2" WASTE DOWN AND 2' VENT UP.

11 2" WASTE DOWN FROM SHOWER DRAIN (COORDINATE EXACT LOCATION WITH FLOOR SLOPING BY OTHERS AS REQ'D), PROVIDE TRAP PRIMER.

12 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

13 3" WASTE DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

14 3" WASTE DOWN FROM ABOVE.

15 OUTGOING 6" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

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KIRKSEY ENGINEERS
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MEP/T
LEAF
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FOOD SERVICE
T 281-556-7200
BUILDING ENVELOPE
SEAL
T 713-965-9009

LEAF ENGINEERS

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61572
LICENSED PROFESSIONAL ENGINEER
2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA A

PU-101A

Plot Stamp:
10/22/2025 1:19:49 PM

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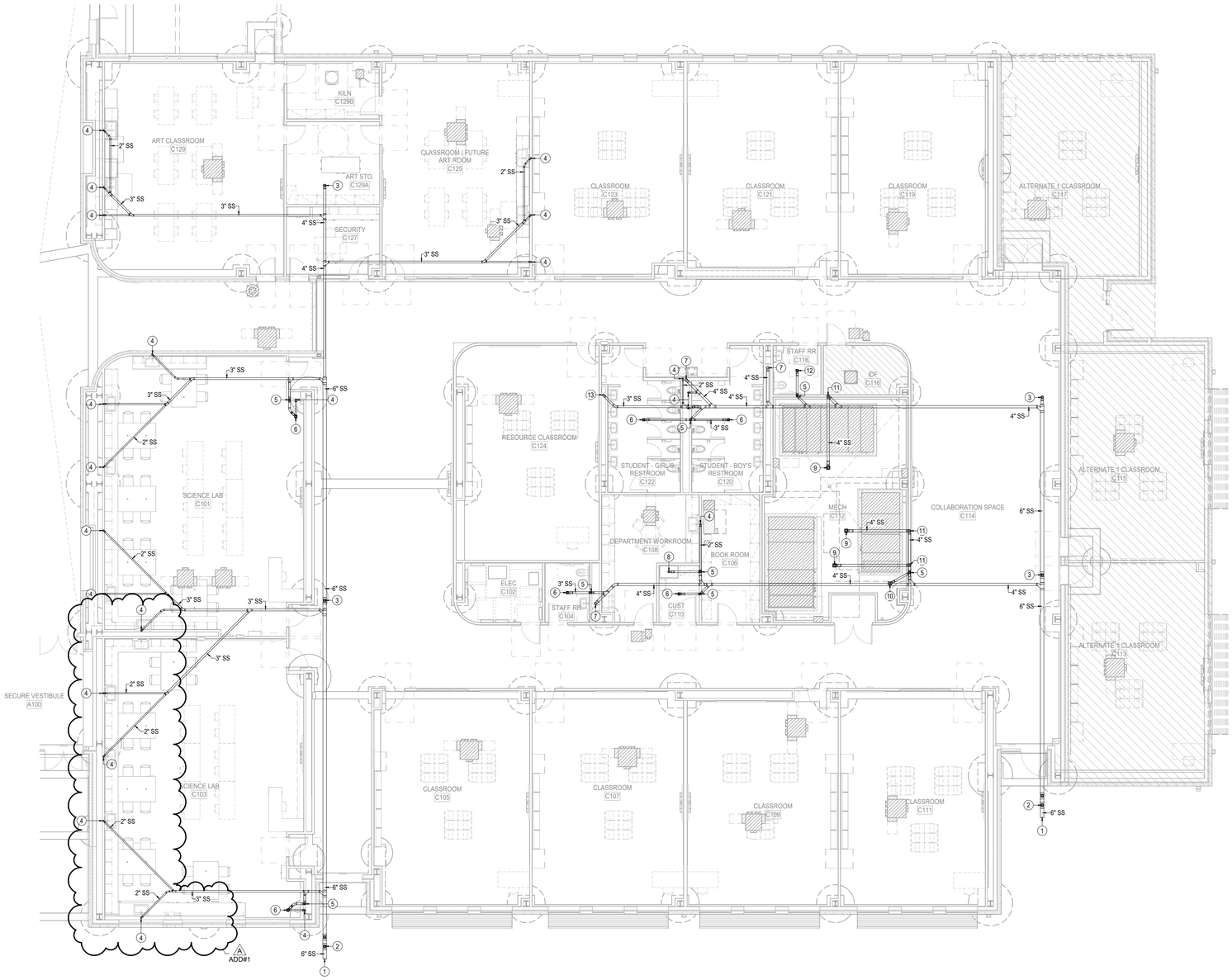
1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C

PU-101C

FOR BLUEBEAM LABELING/OCR:

0"

1"



1 **1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

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E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DCOTG) ON ALL SANITARY LINES EXITING THE BUILDING.

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P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 OUTGOING 6" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

2 4" WASTE DOWN FROM DOUBLE CLEANOUT TO GRADE.

3 4" WASTE DOWN FROM FLOOR CLEANOUT.

4 2" WASTE DOWN FROM ABOVE.

5 3" WASTE DOWN AND 2' VENT UP.

6 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

7 4" WASTE DOWN FROM ABOVE.

8 3" WASTE DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

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13 3" WASTE DOWN FROM ABOVE.

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LAMAR CISD
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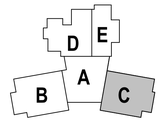


KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
2025/10/13
LEAF ENGINEERS
F-10672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC

DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C

PU-101C

Plot Stamp:
10/22/2025 1:19:54 PM

ISSUE FOR PROPOSAL

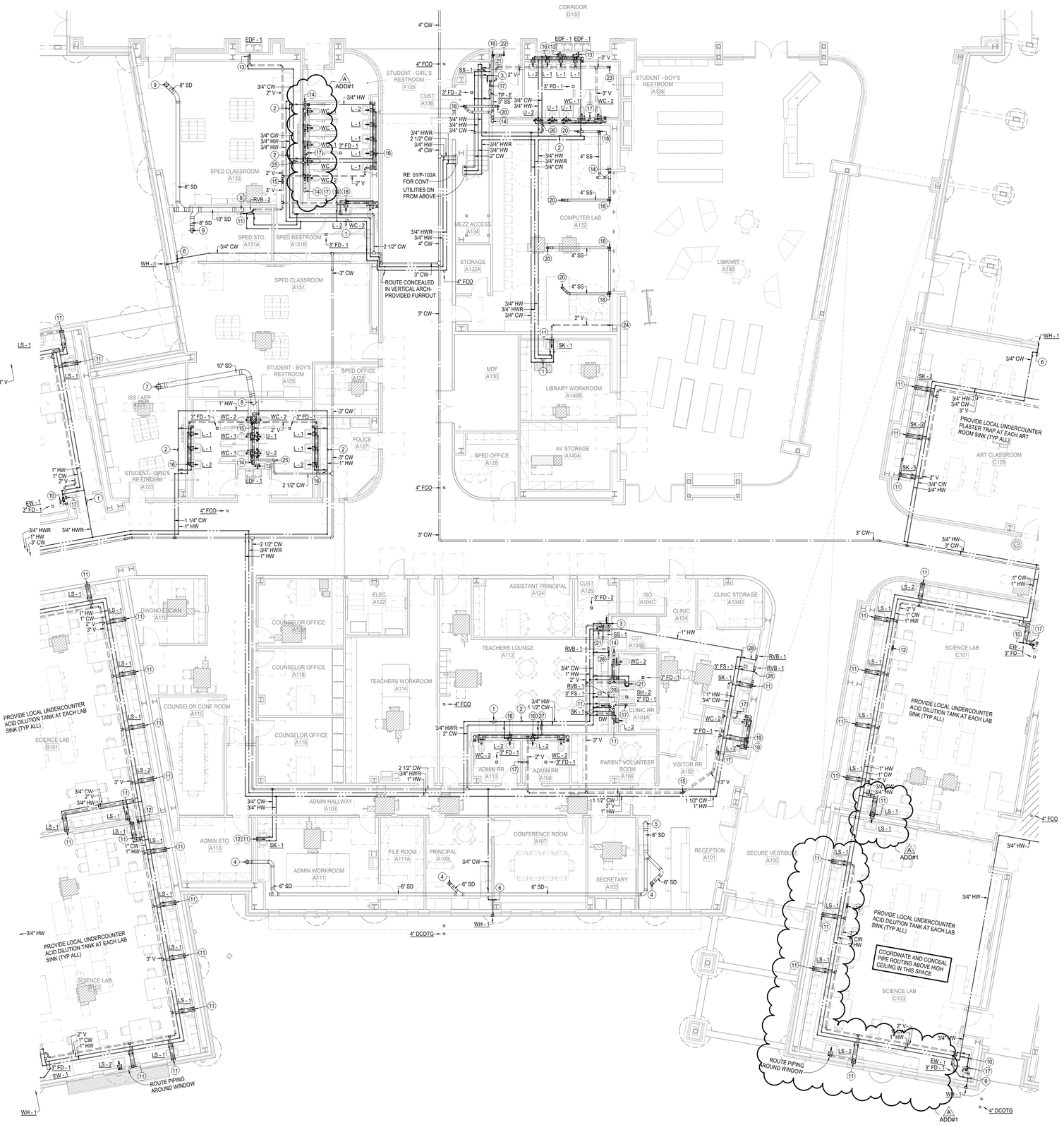
1ST FLOOR PLUMBING PLAN - AREA A

P-101A

FOR BLUEBEAM LABELING/DOCR:

0"

1"



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 3/4" HOT WATER RETURN BALANCING VALVE (CONFIRM/ADJUST SETPOINT OF EACH INDIVIDUAL BALANCING VALVE TO FLOW MINIMUM OF 0.5 GPM AND ADJUST AS REQUIRED TO PROVIDE PROPER/NECESSARY BALANCING). PROVIDE STRAINER, CHECK VALVE AND ISOLATION VALVES AT BALANCING VALVE ASSEMBLY.

2 BALL VALVE (BYPASS NORMALLY CLOSED). REFER TO PLANS FOR LINE SIZE.

3 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSER BY OTHERS. CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQ'D FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

4 6" STORM WASTE DOWN FROM ROOF DRAIN.

5 8" STORM WASTE DOWN.

6 3/4" COLD WATER DOWN TO SERVE WALL HYDRANT.

7 10" STORM WASTE DOWN FROM ROOF DRAIN.

8 10" STORM WASTE DOWN.

9 8" STORM WASTE DOWN FROM ROOF DRAIN.

10 1" HOT AND COLD WATER DOWN TO SERVE THERMOSTATIC MIXING VALVE (PROVIDE AND INSTALL CONCEALED ABOVE CEILING). EXTEND TEMPERED WATER TO SERVE EMERGENCY FIXTURE, LOCATE FLOOR DRAIN CENTERED DIRECTLY UNDER SHOWER HEAD. ROUTE EYEWASH WASTE AS INDICATED (TIE-IN TO FLOOR DRAIN WASTE UPSTREAM OF P-TRAP), AND CONNECT EMERGENCY FIXTURE UTILITIES PER MANUFACTURER REQUIREMENTS.

11 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE(S), 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

12 3" VENT THRU ROOF (VTR).

13 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE(S), 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

14 4" WASTE DOWN.

15 4" VENT THRU ROOF (VTR).

16 3" WASTE DOWN AND 2" VENT UP.

17 2" VENT UP FROM BELOW.

18 4" WASTE DOWN AND 2" VENT UP.

19 3/4" HOT WATER AND 1-1/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

20 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

21 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

22 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

23 3" VENT UP.

24 2" VENT UP.

25 2-1/2" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

26 2" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

27 3/4" HOT WATER AND 1-1/2" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

28 3/4" COLD WATER DOWN TO SERVE VALVE WALL BOX.

1 1ST FLOOR PLUMBING PLAN - AREA A
SCALE: 1/8" = 1'-0"

Plot Stamp:
10/22/2025 1:20:11 PM

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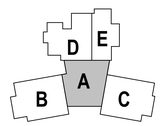
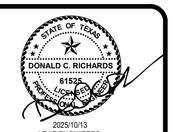


KEY PLAN
NORTH: PLAN TRUE



2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA A

P-101A

ISSUE FOR PROPOSAL

1ST FLOOR PLUMBING PLAN - AREA C

P-101C

FOR BLUEBEAM LABELING/OCR:

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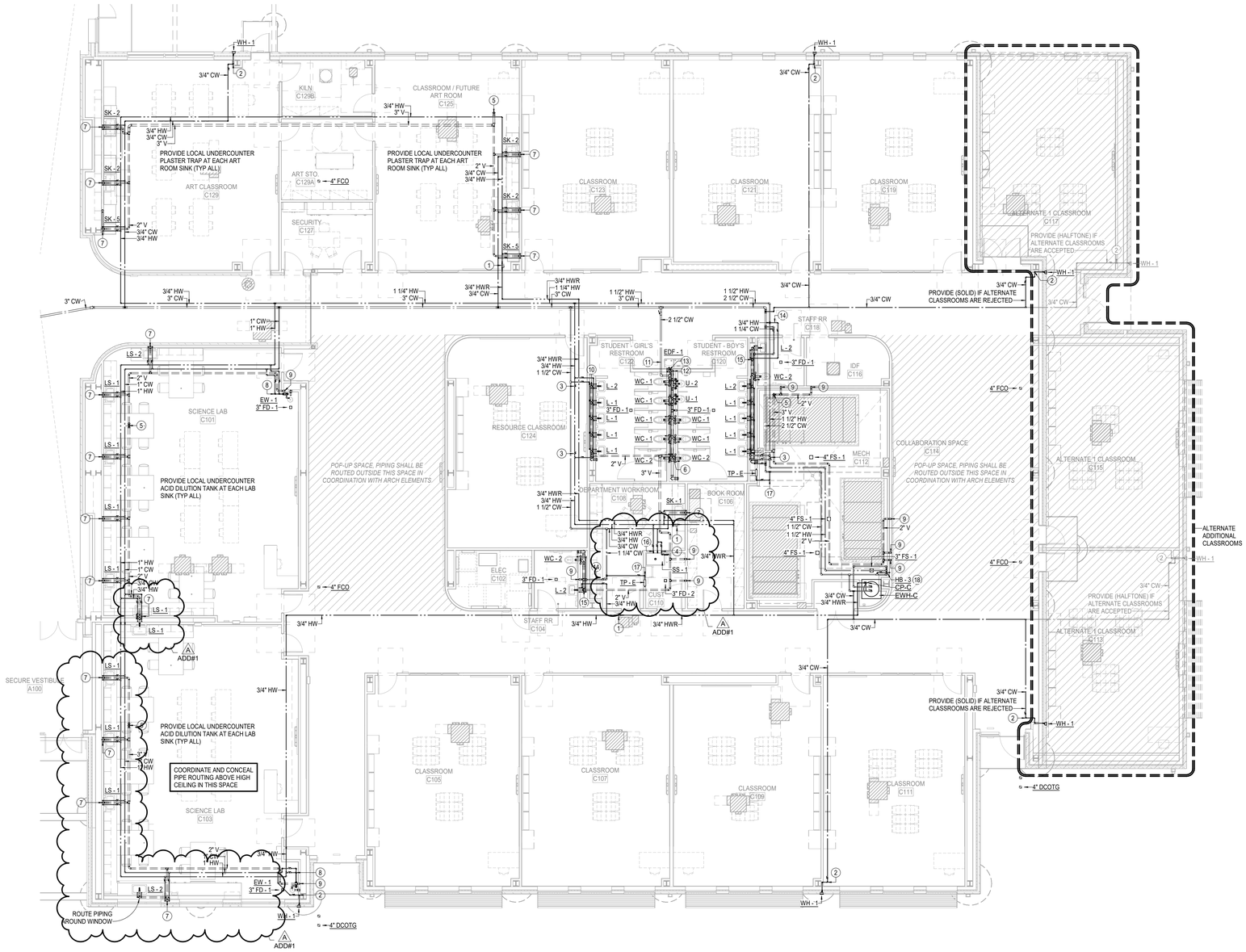
1"



1 1ST FLOOR PLUMBING PLAN - AREA C
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DCOTG) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 3/4" HOT WATER RETURN BALANCING VALVE (CONFIRM/ADJUST SETPOINT OF EACH INDIVIDUAL BALANCING VALVE TO FLOW MINIMUM OF 0.5 GPM AND ADJUST AS REQUIRED TO PROVIDE PROPER/NECESSARY BALANCING). PROVIDE STRAINER, CHECK VALVE AND ISOLATION VALVES AT BALANCING VALVE ASSEMBLY.

2 3/4" COLD WATER DOWN TO SERVE WALL HYDRANT.

3 BALL VALVE (BYPASS NORMALLY CLOSED). REFER TO PLANS FOR LINE SIZE.

4 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSER BY OTHERS. CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQ'D FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

5 3" VENT THRU ROOF (VTR).

6 4" VENT THRU ROOF (VTR).

7 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE(S), 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

8 1" HOT AND COLD WATER DOWN TO SERVE THERMOSTATIC MIXING VALVE (PROVIDE AND INSTALL CONCEALED ABOVE CEILING). EXTEND TEMPERED WATER TO SERVE EMERGENCY FIXTURE. LOCATE FLOOR DRAIN CENTERED DIRECTLY UNDER SHOWER HEAD. ROUTE EYEWASH WASTE AS INDICATED (TIE-IN TO FLOOR DRAIN WASTE UPSTREAM OF P-TRAP), AND CONNECT EMERGENCY FIXTURE UTILITIES PER MANUFACTURER REQUIREMENTS.

9 2" VENT UP FROM BELOW.

10 3" WASTE DOWN AND 2" VENT UP.

11 2-1/2" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

12 4" WASTE DOWN.

13 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE(S), 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

14 3/4" HOT WATER AND 1-1/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

15 4" WASTE DOWN AND 2" VENT UP.

16 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

17 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

18 3/4" COLD WATER DOWN TO SERVE HOSE BIBB.

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LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN NORTH: PLAN TRUE

2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC

DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA C

P-101C

Plot Stamp:
10/22/2025 1:18:21 PM

ISSUE FOR PROPOSAL

1ST FLOOR PLUMBING PLAN - AREA D

P-101D

FOR BLUEBEAM LABELING/OCR:

0"

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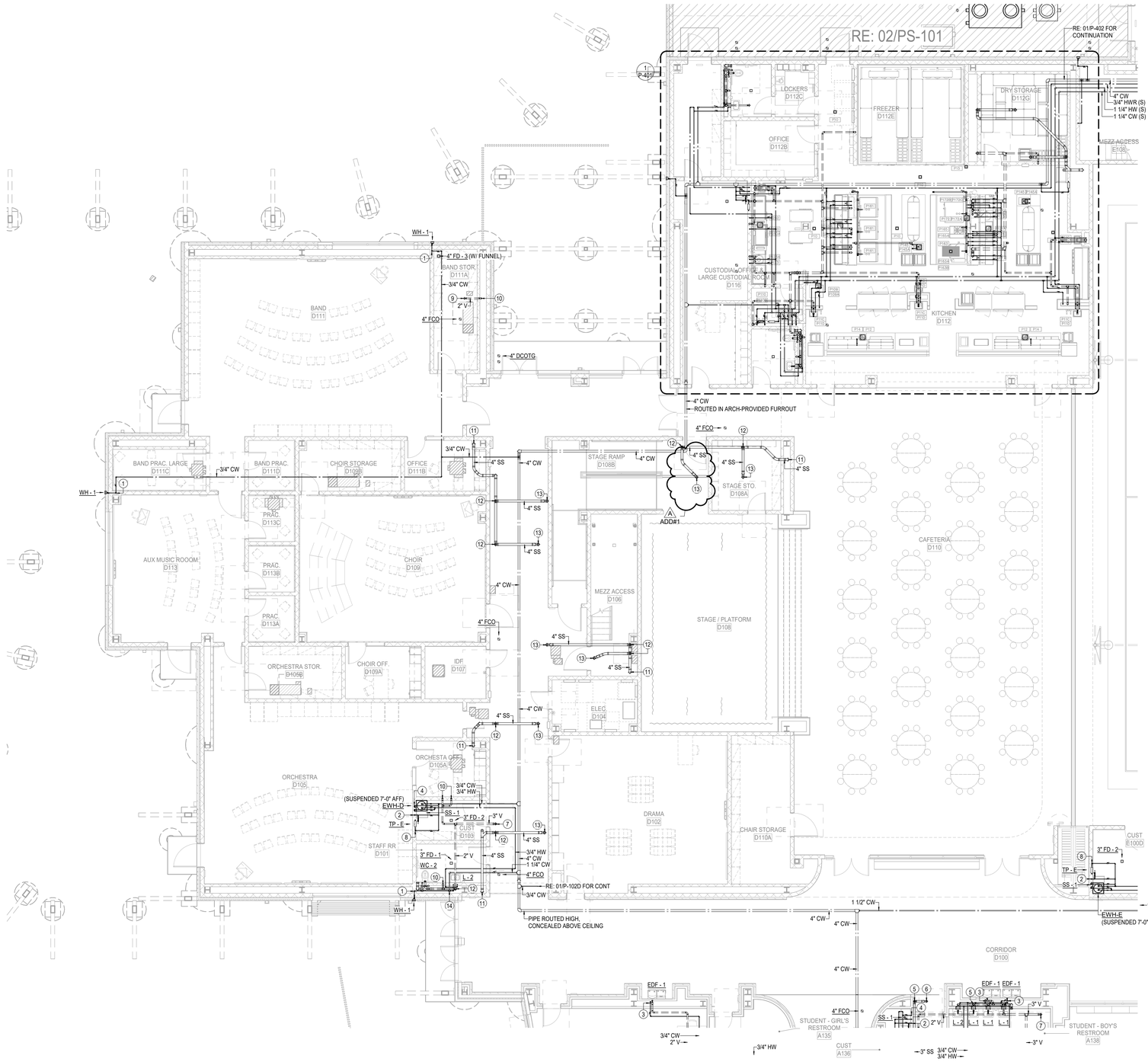

1 **1ST FLOOR PLUMBING PLAN - AREA D**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DCOTG) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 3/4" COLD WATER DOWN TO SERVE WALL HYDRANT.

2 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSER BY OTHERS. CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQ'D FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

3 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE(S), 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

4 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

5 3" WASTE DOWN AND 2" VENT UP.

6 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

7 3" VENT UP.

8 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

9 3" VENT THRU ROOF (VTR).

10 2" VENT UP FROM BELOW.

11 4" WASTE DOWN.

12 4" WASTE DOWN AND 2" VENT UP.

13 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

14 3/4" HOT WATER AND 1-1/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

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MIDDLE SCHOOL 8

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LAMAR CISD
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KEY PLAN
D E B A C
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA D

P-101D

Plot Stamp:
10/22/2025 1:18:31 PM

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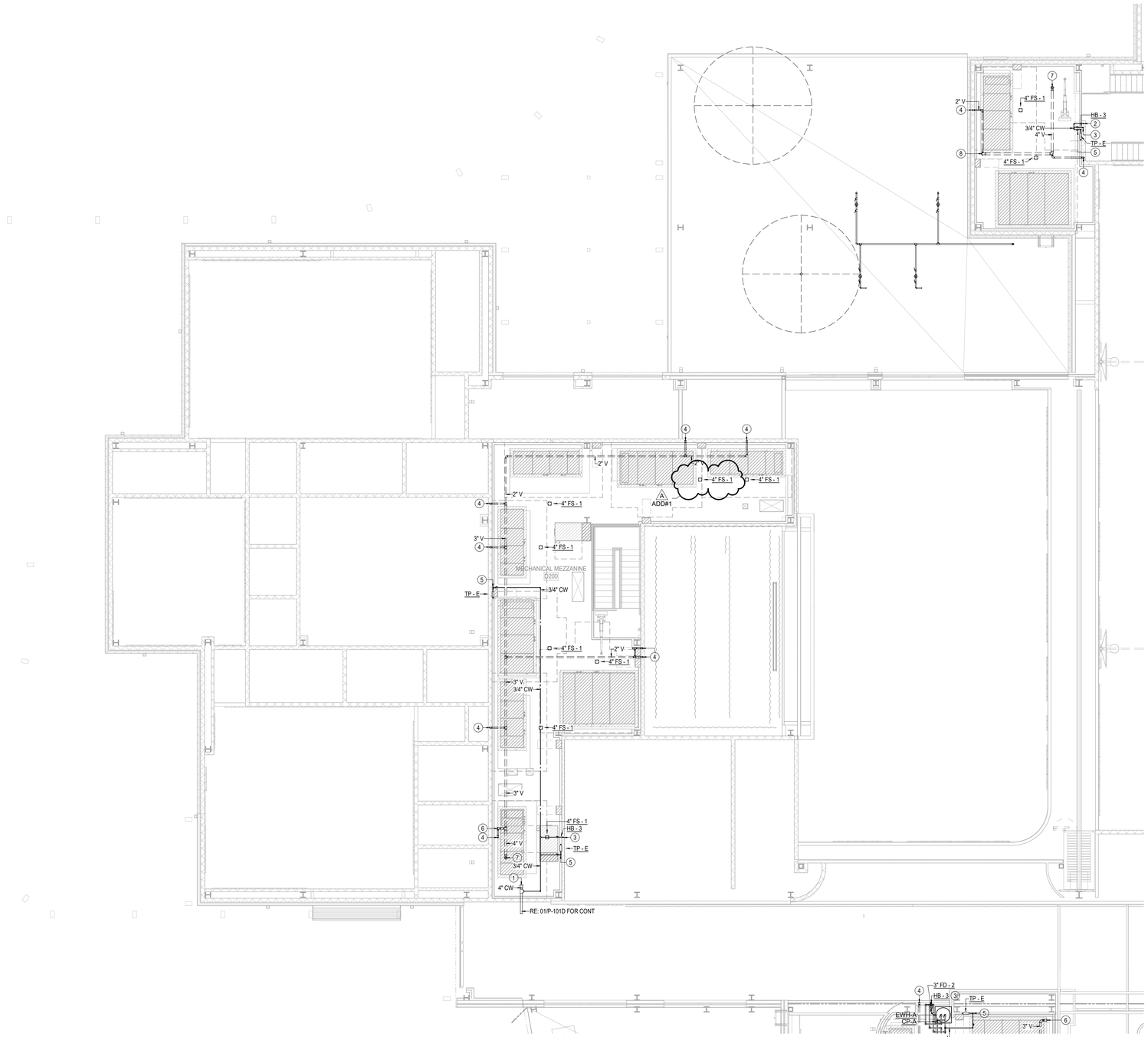
MEZZANINE PLUMBING PLAN - AREA D

P-102D

FOR BLUEBEAM LABELING/OCR:

0"

1"



1 **MEZZANINE PLUMBING PLAN - AREA D**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DCOTG) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

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N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

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P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 4" COLD WATER UP.

2 3/4" COLD WATER UP.

3 3/4" COLD WATER DOWN TO SERVE HOSE BIBB.

4 2" VENT UP FROM BELOW.

5 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

6 3" VENT UP FROM BELOW.

7 4" VENT THRU ROOF (VTR).

8 4" VENT UP FROM BELOW.

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LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

D E A B C

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61535
LICENSED PROFESSIONAL ENGINEER
2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC

DRAWN BY: SC

MEZZANINE PLUMBING PLAN - AREA D

P-102D

Plot Stamp:
10/22/2025 1:18:34 PM

PLUMBING ROOF PLAN - COMPOSITE
P-301
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

0"
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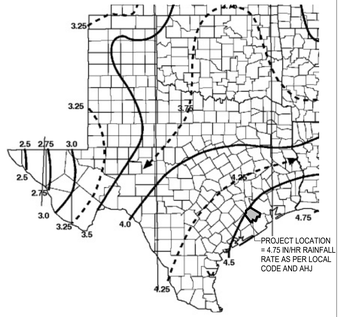
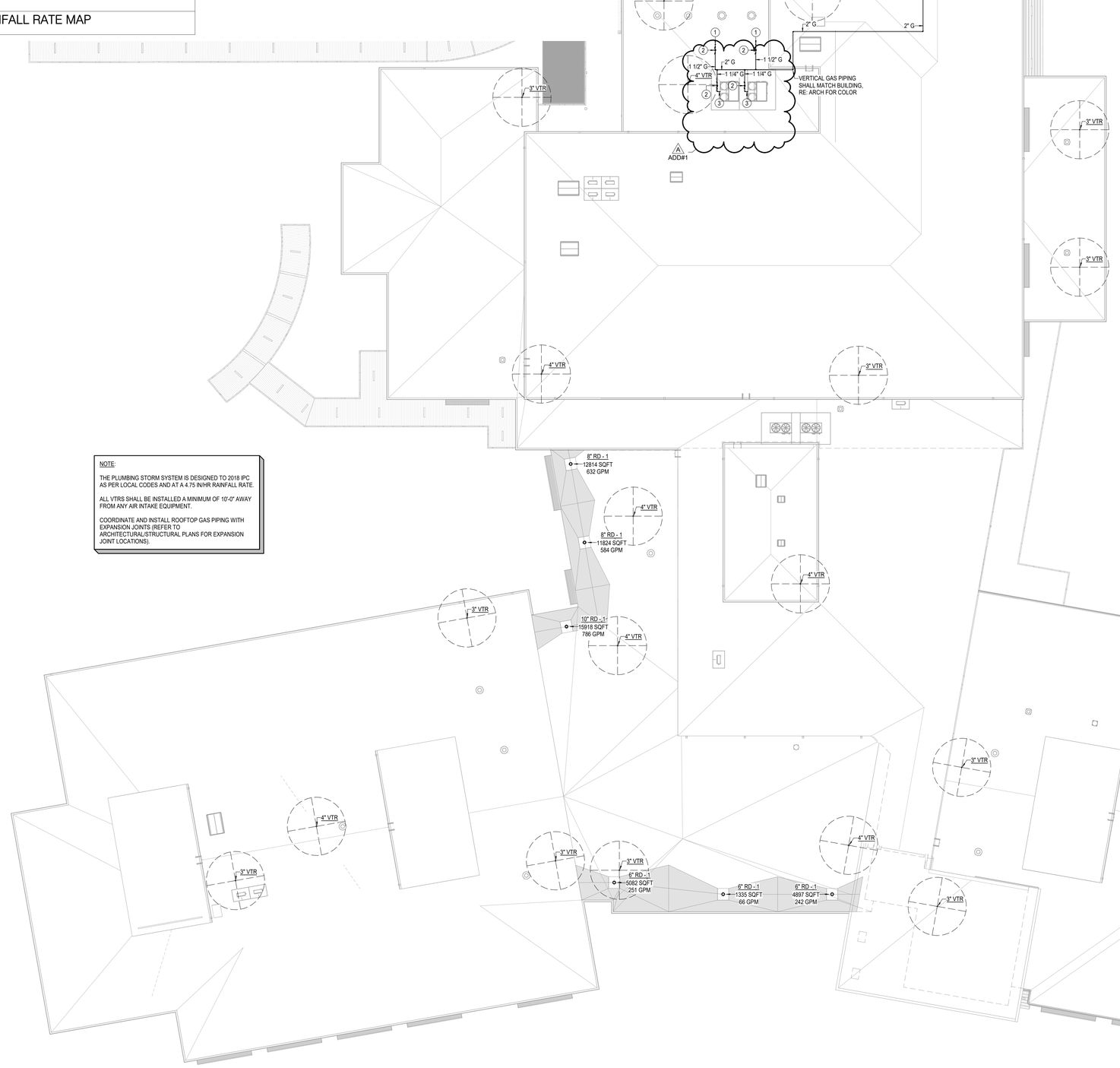


2 IPC RAINFALL RATE MAP
N.T.S

TABLE 1106.2 STORM DRAIN PIPE SIZING

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	SLOPE OF HORIZONTAL DRAIN			
		1/16 inch per foot	1/8 inch per foot	1/4 inch per foot	1/2 inch per foot
2	34	15	22	31	44
3	87	39	55	79	111
4	180	81	115	163	231
5	311	117	165	234	331
6	538	243	344	487	689
8	1,117	505	714	1,010	1,429
10	2,050	927	1,311	1,855	2,623
12	3,272	1,480	2,093	2,960	4,187
15	5,543	2,508	3,546	5,016	7,093

*INFORMATION PROVIDED FOR REFERENCE ONLY WHERE DIVISION 22 STORM PIPING IS PROVIDED AND SPECIFIED



NOTE:

THE PLUMBING STORM SYSTEM IS DESIGNED TO 2018 IPC AS PER LOCAL CODES AND AT A 4.75 IN/HR RAINFALL RATE.

ALL VTRS SHALL BE INSTALLED A MINIMUM OF 10'-0" AWAY FROM ANY AIR INTAKE EQUIPMENT.

COORDINATE AND INSTALL ROOFTOP GAS PIPING WITH EXPANSION JOINTS (REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR EXPANSION JOINT LOCATIONS).

1 PLUMBING ROOF PLAN - COMPOSITE
1/16" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 1-1/2" GAS DOWN.

2 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE. INSTALLED AS PER THE SPECIFICATIONS. VENT REGULATOR TO EXTERIOR AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

3 CONNECT TO EQUIPMENT, VERIFY LINE SIZE WITH MANUFACTURER INSTALL REQUIREMENTS PRIOR TO FINAL CONNECTION(S). PROVIDE ACCESSIBLE FULL LINE-SIZE SHUT-OFF VALVE.

PBK

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KIRKSEY ENGINEERS
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FOOD SERVICE
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BUILDING ENVELOPE
BEAN
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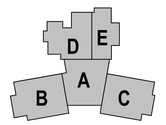
LEAF ENGINEERS

MIDDLE SCHOOL 8

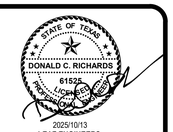
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



KEY PLAN
NORTH: PLAN TRUE



2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC
DRAWN BY: SC

PLUMBING ROOF PLAN - COMPOSITE

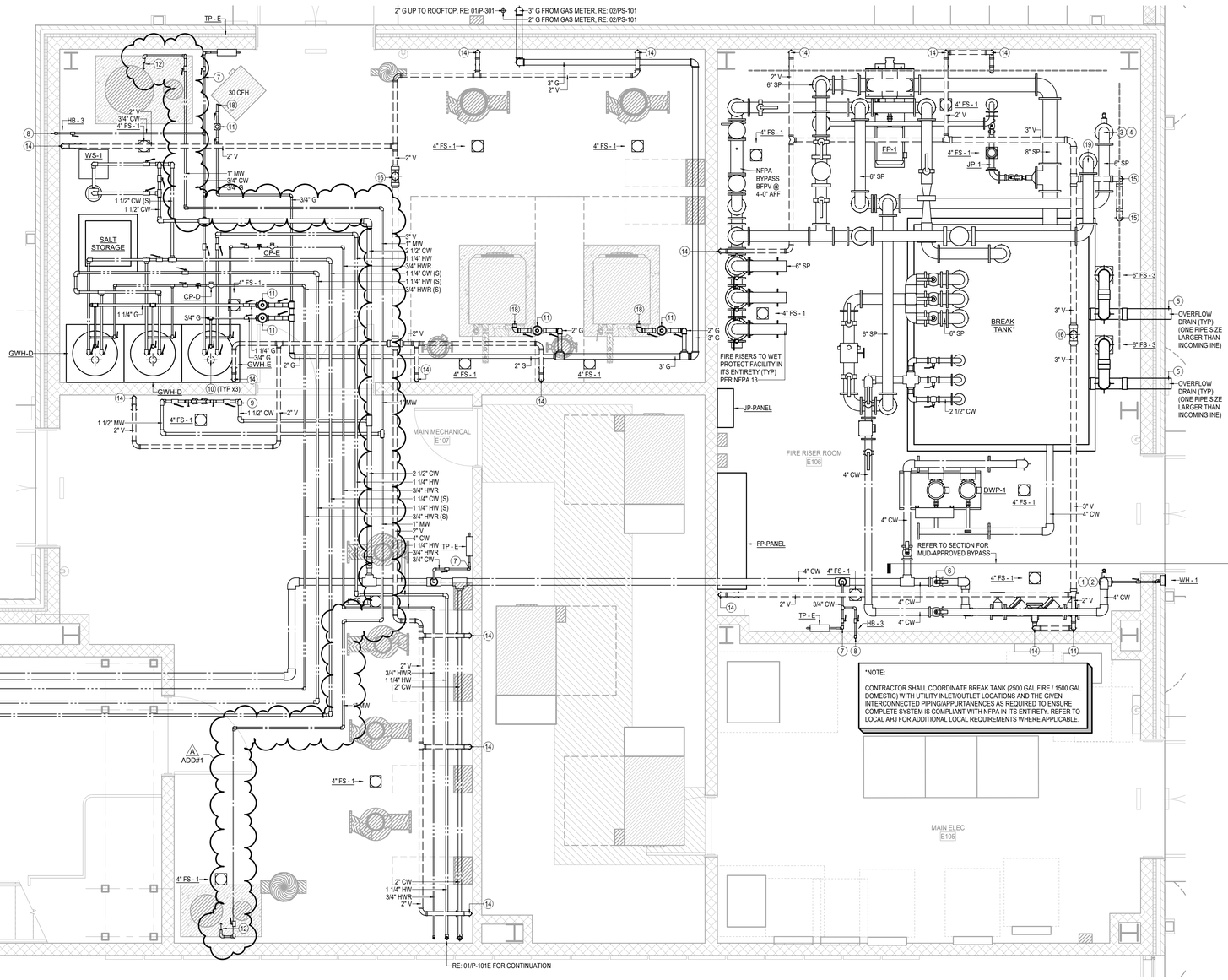
P-301

Plot Stamp:
10/22/2025 1:18:37 PM

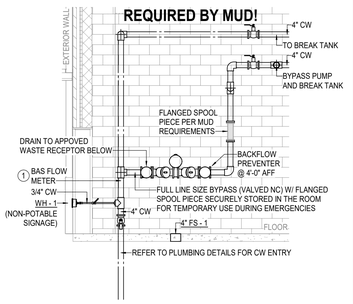
ISSUE FOR PROPOSAL

PLUMBING ENLARGED PLAN
P-402
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 1ST FLOOR PLUMBING PLAN - AREA E - ENLARGED MECHANICAL AND FIRE RISER ROOM
3/8" = 1'-0"



2 MUD DETAIL FOR FLANGED SPOOL PIECE
1/4" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DCOTG) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 BAS CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL WATER FLOW METER AT INCOMING COLD WATER MAIN ENTRY AND INSTALL AS PER SPECIFICATIONS. COORDINATE BAS CONNECTION(S) WITH DIV 23 AND DIV 26 AS REQ'D.

2 INCOMING 4" COLD WATER ENTRY, RE: CIVIL DRAWING FOR SITE ROUTING.

3 INCOMING 6" FIRE WATER ENTRY, RE: CIVIL DRAWING FOR SITE ROUTING.

4 BAS CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL FIRE WATER FLOW METER AT INCOMING FIRE WATER MAIN ENTRY AND INSTALL AS PER SPECIFICATIONS. COORDINATE BAS CONNECTION(S) WITH DIV 23 AND DIV 26 AS REQ'D.

5 OVERFLOW WASTE DISCHARGE TO DAYLIGHT 18" ABOVE GRADE, PROVIDE SPLASH BLOCK. PROVIDE DOWNSPOUT NOZZLE (HINGED PERFORATED FLAPPER STYLE).

6 BALL VALVE (BYPASS NORMALLY CLOSED). REFER TO PLANS FOR LINE SIZE.

7 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

8 3/4" COLD WATER DOWN TO SERVE HOSE BIBB.

9 1-1/2" COLD WATER DOWN TO SERVE RPZ BACKFLOW PREVENTER (INSTALLED 4'-0" AFF, DRAIN LINE ROUTED TO NEARBY APPROVED WASTE RECEPTOR FOR INDIRECT (1" AIR GAP) DISCHARGE). PROVIDE HOSE BIBB (HB-3) WITH SHUT-OFF VALVE DOWNSTREAM OF BACKFLOW PREVENTER. EXTEND 1-1/2" MAKE-UP WATER TO SERVE THE REQUIRED MECHANICAL EQUIPMENT. REFER TO MECHANICAL DETAILS FOR CONTINUATION.

10 DOMESTIC GAS WATER HEATER AND CONCENTRIC VENT KIT SHALL BE PROVIDED BY PLUMBING CONTRACTOR. REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS. PROVIDE AND INSTALL 2" THICK, INSTALLED R-8, FIBERGLASS INSULATION FOR METAL INTAKE PIPING FOR CONDENSATION PREVENTION. REFER TO PLUMBING DETAILS FOR SEALED COMBUSTION CONCENTRIC VENT DETAIL. PROVIDE AND INSTALL 4" WATER HEATER CONCENTRIC FLUE CAP (x2) AT EXTERIOR PENETRATION. CONTRACTOR SHALL REFER TO MANUFACTURER'S REQUIREMENTS FOR EXACT INSTALLATION NEEDS PRIOR TO COMMENCING ANY INSTALL WORK.

11 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE, INSTALLED AS PER THE SPECIFICATIONS. VENT REGULATOR TO EXTERIOR AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

12 MAKE-UP WATER CONNECTION TO EQUIPMENT, VERIFY LINE SIZE WITH MECHANICAL DETAILS PRIOR TO FINAL CONNECTION(S). REFER TO MECHANICAL DETAILS FOR CONTINUATION.

13 3/4" COLD WATER DOWN TO SERVE WALL HYDRANT.

14 2" VENT UP FROM BELOW.

15 3" VENT UP FROM BELOW.

16 4" VENT THRU ROOF (VTR).

17 3/4" COLD WATER UP.

18 CONNECT TO EQUIPMENT, VERIFY LINE SIZE WITH MANUFACTURER INSTALL REQUIREMENTS PRIOR TO FINAL CONNECTION(S). PROVIDE ACCESSIBLE FULL LINE-SIZE SHUT-OFF VALVE.

19 INCOMING 6" FIRE WATER FROM REMOTE FIRE DEPARTMENT CONNECTION, RE: CIVIL PLAN FOR EXACT LOCATION.

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STRUCTURAL
KUBENKA ENGINEERS
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FOOD SERVICE
SEA
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BUILDING ENVELOPE
SEAK
T 713-965-9008

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LAMAR CISD
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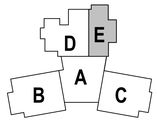


KEY PLAN
NORTH: PLAN TRUE

2025/10/13
LEAF ENGINEERS
F-16672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC
DRAWN BY: SC

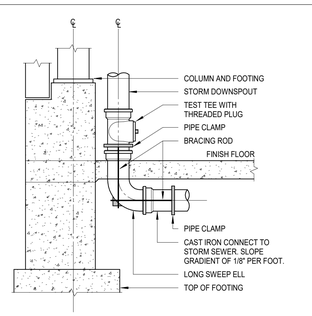
PLUMBING ENLARGED PLAN

P-402

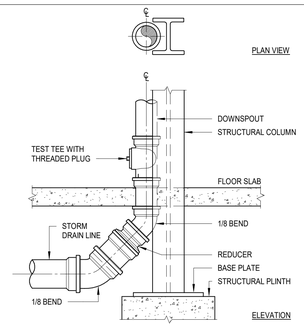
Plot Stamp:
10/22/2025 1:18:39 PM

PLUMBING DETAILS
P-602
FOR BLUEBEAM LABELING/DOOR:

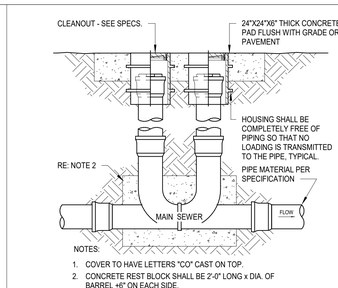
ISSUE FOR PROPOSAL



16 STORM DOWNSPOUT
N.T.S



15 STORM DOWNSPOUT
N.T.S

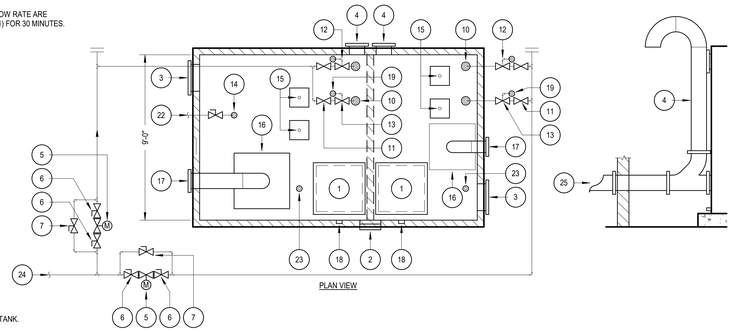


NOTES:
1. COVER TO HAVE LETTERS "CO" CAST ON TOP.
2. CONCRETE REST BLOCK SHALL BE 2'-0" LONG x DIA. OF BARREL +6" ON EACH SIDE.
3. SINGLE OR DOUBLE CLEANOUT REQUIRED AS SHOWN ON PLANS.

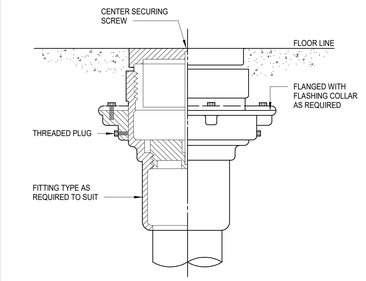
14 P6N DOUBLE EXTERIOR CLEANOUT
N.T.S

NOTES:
1. WATER SUPPLY TANK MUST COMPLY WITH SECTION 607.8-10 OF THE 2012 UPC HOUSTON PLUMBING CODE AMENDMENT.
2. 30 MINUTE WATER SUPPLY WHERE:
   A. 8" FIRE MAIN FROM "A PUBLIC WATERWORKS SYSTEM WHERE PRESSURE AND FLOW RATE ARE ADEQUATE" (NFPA 14.9.1.5), PROVIDES MINIMUM 500 GPM FLOW (NFPA 14.7.10.1.1.1) FOR 30 MINUTES.

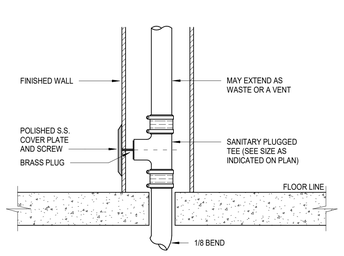
LEGEND:
1. 24" SQUARE MANHOLE COVER.
2. LADDER.
3. 24" SQUARE MANWAY. COORDINATE LOCATION.
4. 8" VENT AND OVERFLOW DRAIN OUTLET. CONNECT TO NOTE 25.
5. EMERGENCY SHUT-OFF VALVE (RE: SPECS).
6. BUTTERFLY VALVE.
7. BUTTERFLY BY-PASS VALVE (N.C.).
8. 6" HIGH CONCRETE PAD.
9. BUTTERFLY VALVE FOR MANUAL FILL (N.C.)
10. FLANGED TANK OPENING.
11. SHUT-OFF VALVE (RE: SPECS).
12. FILL FLOAT VALVE #1 WITH STILLING WELL. COORDINATE FLOAT DIMENSIONS WITH TANK.
13. FILL FLOAT VALVE #2 WITH STILLING WELL. COORDINATE FLOAT DIMENSIONS WITH TANK.
14. 6" TANK OPENING FOR FIRE PUMP TEST.
15. FLOAT ACCESS.
16. 2' X 2' ANTI-VORTEX PLATE.
17. FLANGED TANK OUTLET FOR PUMP SUCTION.
18. SIGHT GLASS. ***(CONTRACTOR SHALL PROVIDE SIGHT GLASS PROTECTION AT BREAK TANK)***
19. SPLIT FLANGE FOR FLOAT OPERATION AND REMOVAL AND STILLING WELL.
20. 2" DRAIN PIPE TO SPILL INDIRECTLY INTO 24" LONG X 24" WIDE X 6" HIGH CURBED PIT. PROVIDE 8" ROOF DRAIN RD-1 IN PIT (IF REQ'D).
21. TANK DRAIN WITH VALVE AND CAP. SIZE BY TANK MANUFACTURER.
22. 6" FIRE LINE FOR FIRE PUMP TEST.
23. ELECTRODE FLANGE.
24. BUILDING WATER SUPPLY FROM CITY MAIN.
25. OVERFLOW DRAIN TO J.R. SMITH FIG. 1775 DOWNSPOUT NOZZLE (ALTERNATE IF ON AN EXTERIOR WALL).



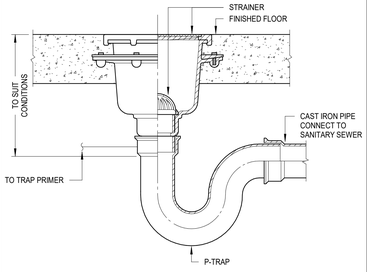
5 COMBINATION DOMESTIC AND FIRE WATER STORAGE TANK
N.T.S



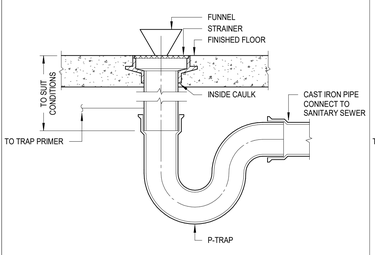
13 FLOOR CLEANOUT
N.T.S



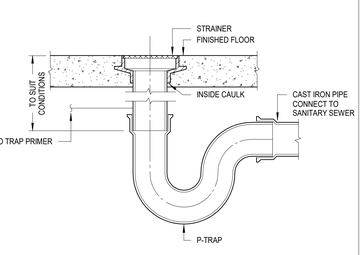
12 WALL CLEANOUT DETAIL
N.T.S



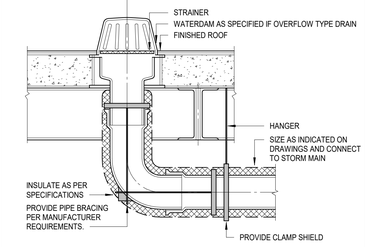
11 FLOOR SINK
N.T.S



10 FLOOR DRAIN DETAIL
N.T.S



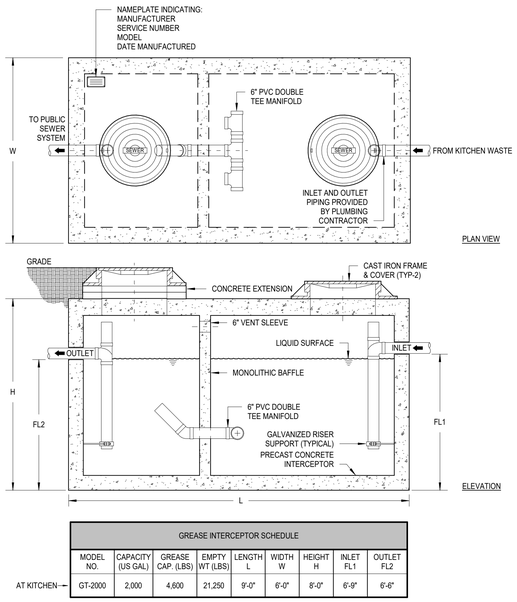
9 FLOOR DRAIN DETAIL
N.T.S



8 ROOF + OVERFLOW DRAIN INSTALL
N.T.S

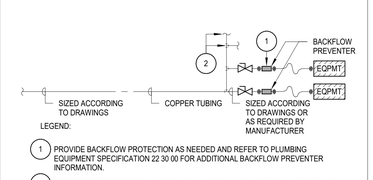
GREASE INTERCEPTOR CALCULATIONS											
FIXTURE TYPE	TRAP ARM SIZE			DRAINAGE FIXTURE UNITS			QUANTITY		
2 COMPARTMENT SINK	1-1/2"			4			1		
3 COMPARTMENT SINK	2"			4			1		
POT SINK	2"			4			0		
MOP SINK	3"		4"	6		8	0		1
HAND SINK	1-1/2"			3			6		
DISHWASHER	2"			4			2		
FLOOR DRAIN	2"	3"	4"	4	6	8	0	10	0
FLOOR SINK	2"	3"	4"	4	6	8	0	0	10
TOTAL DRAINAGE FIXTURE UNIT COUNT = **182**							SIZED PER 1014.3.6		
INTERCEPTOR MINIMUM VOLUME BASED ON TOTAL DFU = **2000**									
GRAVITY TYPE GREASE INTERCEPTOR SELECTION = **ParkUSA GT-2000**									

NOTE:
CONTRACTOR SHALL DEWATER AREA IN AND AROUND GREASE TRAP.



GREASE INTERCEPTOR SCHEDULE								
	MODEL NO.	CAPACITY (US GAL)	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
AT KITCHEN →	GT-2000	2,000	4,600	21,250	9'-0"	6'-0"	8'-0"	6'-9"	6'-6"

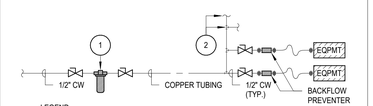
2 GREASE TRAP (GT-2000)
N.T.S



LEGEND:
1. PROVIDE BACKFLOW PROTECTION AS NEEDED AND REFER TO PLUMBING EQUIPMENT SPECIFICATION 22 30 00 FOR ADDITIONAL BACKFLOW PREVENTER INFORMATION.
2. ROUTE COPPER TUBING TAKE-OFF WITH BACKFLOW PREVENTER AS NEEDED AND SHUT-OFF VALVE TO SERVE EACH APPLIANCE PRIOR TO BACKFLOW PREVENTER.

NOTES:
1. PROVIDE AND INSTALL, AT MINIMUM, A TESTABLE DOUBLE BACKFLOW DEVICE AT ALL KITCHEN EQUIPMENT CONNECTED TO THE DOMESTIC WATER SYSTEM.
2. RPZ TYPE BACKFLOW PREVENTER WHERE REQUIRED BY LOCAL CODES.
3. INSTALL IN ACCORDANCE WITH THE AMERICAN SOCIETY OF SANITARY ENGINEERING STANDARD 1013 LATEST ADDITIONS FOR BACKFLOW PREVENTERS.
4. COORDINATE ALL FINAL APPLIANCE SCHEDULE TYPE, LOCATION AND CONNECTION SIZE WITH FOODSERVICE DRAWINGS.

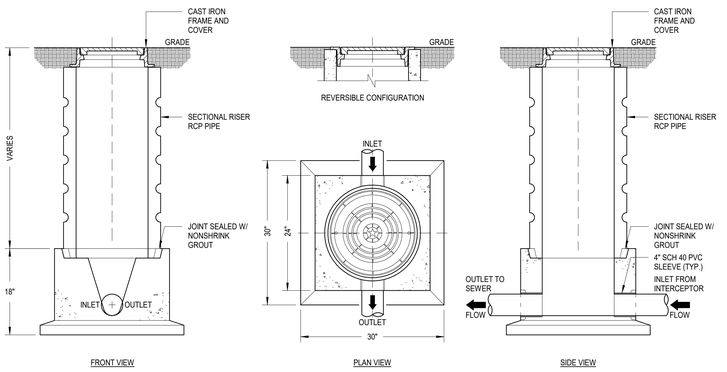
7 WATER KITCHEN APPLIANCE
N.T.S



LEGEND:
1. AQUA-PURE SINGLE CARTRIDGE FILTER MODEL SST1HA WITH STAINLESS STEEL HOUSING W/ BRASS HEAD, CARBON TYPE 1-50 MICRONS CARTRIDGE FILTER. INSTALL IN ACCESSIBLE LOCATION OR APPROVED EQUAL.
2. ROUTE COPPER TUBING TAKE-OFF WITH WATTS LF7 BACKFLOW PREVENTER AND SHUT-OFF VALVE TO SERVE EACH APPLIANCE DOWNSTREAM OF WATER FILTER.

NOTES:
1. RPZ TYPE BACKFLOW PREVENTER WHERE REQUIRED BY LOCAL CODES.
2. INSTALL IN ACCORDANCE WITH THE AMERICAN SOCIETY OF SANITARY ENGINEERING STANDARD 1013 LATEST ADDITIONS FOR BACKFLOW PREVENTERS.
3. COORDINATE ALL FINAL APPLIANCE SCHEDULE TYPE AND LOCATION WITH ARCHITECTURAL DRAWINGS.

6 WATER FILTER/APPLIANCE
N.T.S



SPECIFICATIONS

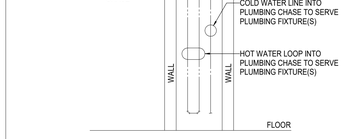
CONCRETE : CLASS 1 CONCRETE WITH OF DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

C.I. CASTINGS: CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30, HEAVY-DUTY AASHTO H-20.

NOTES

1. SAMPLING WELL MUST BE INSTALLED UNDER A SEPARATE PLUMBING PERMIT.
2. USE 15" T&G R.C.P. FOR INSTALLATION FOR INSTALLATION 6'-0" DEEP AND LESS
3. USE 24" T&G R.C.P. FOR INSTALLATION GREATER THAN 6'-0" DEEP. (STD RING AND M.H. COVER REQUIRED)
4. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE.)
5. INSIDE INSTALLATION NOT PERMITTED, WHERE OUTSIDE INSTALLATION IS POSSIBLE.
6. INSTALLATION INSIDE BLDG. MUST BE POURED IN PLACE (15"MIN) NO CONCRETE PIPE IS PERMITTED. (AIR-TIGHT COVER REQUIRED.)
7. LAWN INSTALLATION MUST BE 4" ABOVE FINISHED GRADE.
8. DRIVE & SIDEWALK INSTALLATION MUST BE BROUGHT TO FINISHED GRADE
9. TO BE INSTALLED ON PRIVATE PROPERTY, IN AN ACCESSIBLE LOCATION TO CITY PERSONNEL.

3 SAMPLING WELL (SWB-1)
N.T.S

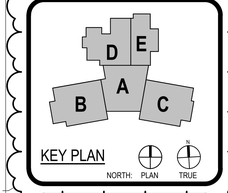


17 HOT WATER BYPASS VALVE DETAIL
N.T.S

PBK
ARCHITECT PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608
CIVIL
KALUZA INC
T 281-341-0808
LANDSCAPE
EDGELAND
T 713-802-0085
STRUCTURAL
KIRKSEY ENGINEERS
T 713-840-7342
MEP/T
LEAF
T 713-343-3300
FOOD SERVICE
TBD
T 281-556-7203
BUILDING ENVELOPE
BEAN
T 713-965-0008
LEAF ENGINEERS

MIDDLE SCHOOL 8
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE



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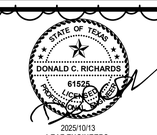


2025/10/13
LEAF ENGINEERS
F-16672

CLIENT
LAMAR CONSOLIDATED ISD
DATE 2025/10/13
PROJECT NUMBER 240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC
DRAWN BY: SC

PLUMBING DETAILS

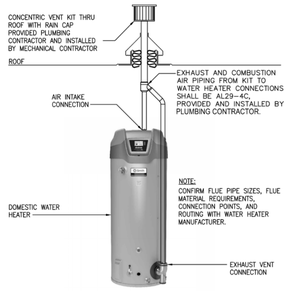
P-602

Plot Stamp:
10/22/2025 1:18:40 PM

PLUMBING DETAILS
P-603
FOR BLUEBEAM LABELING/OCR:

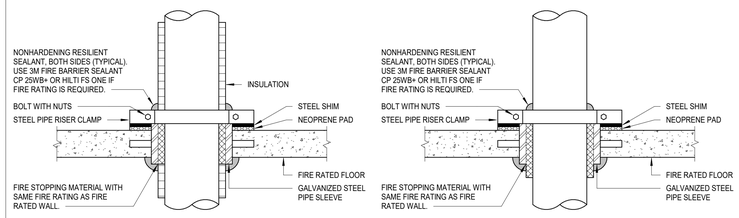
0"
1"

ISSUE FOR PROPOSAL



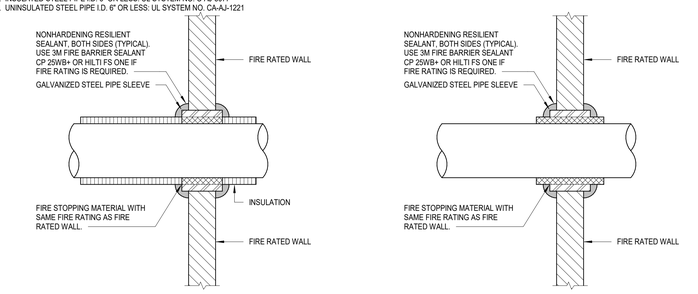
17 SEALED COMB. CONCENTRIC VENT
N.T.S

NOTES:
1. REFER TO SPECIFICATIONS FOR INSULATED PIPE RISER SUPPORTS.
2. COORDINATE RISER CLAMP ORIENTATION TO BE WITHIN WALL CAVITY.
3. INSTALL FIRE STOPPING MATERIAL PER MANUFACTURER'S RECOMMENDATION.
4. REFER TO ARCHITECTURAL DRAWING FOR FLOOR FIRE RATING.
5. INSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. C-AJ-5077
6. UNINSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. CA-AJ-1221

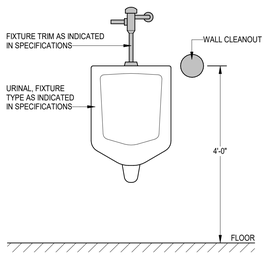


15 TYPICAL PIPE PENETRATION THROUGH FIRE RATED FLOOR
3/8" = 1'-0"

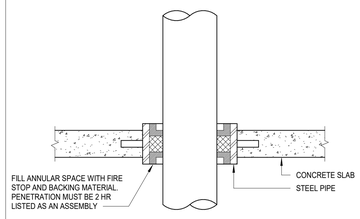
NOTES:
1. REFER TO ARCHITECTURAL DRAWING FOR FIRE WALL RATING.
2. INSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. C-AJ-5077
3. UNINSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. CA-AJ-1221



14 TYPICAL PIPE PENETRATION THROUGH FIRE RATED WALL
3/8" = 1'-0"

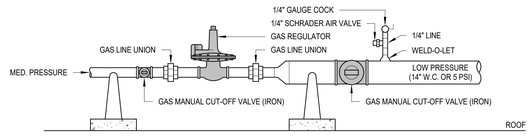


16 URINAL ELEVATION CLEANOUT
N.T.S

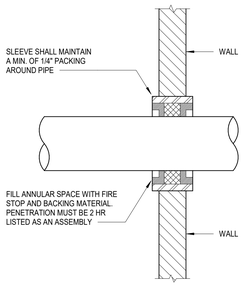


13 UNINSULATED PIPE FLOOR PENETRATION
N.T.S

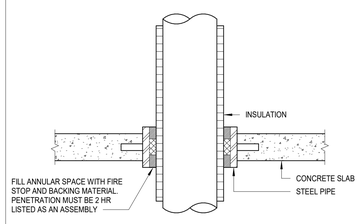
NOTE:
1. GAS VALVE SHALL BE INSTALLED IN 3 O'CLOCK OR 9 O'CLOCK POSITION ONLY. 9 O'CLOCK 3 O'CLOCK



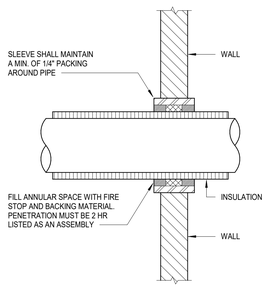
12 TYPICAL GAS REGULATOR INSTALLATION
N.T.S



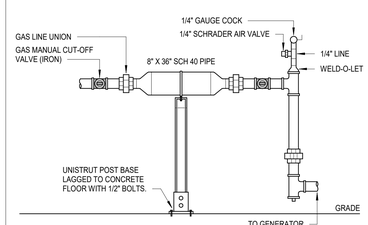
10 UNINSULATED PIPE WALL PENETRATION
N.T.S



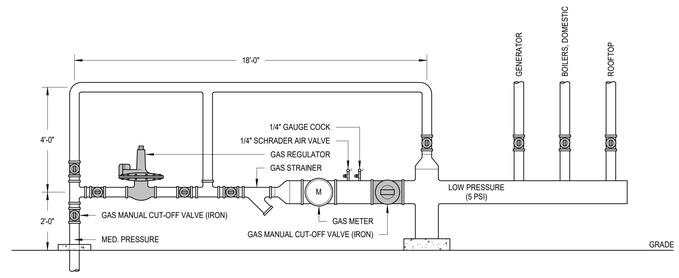
9 INSULATED PIPE FLOOR PENETRATION
N.T.S



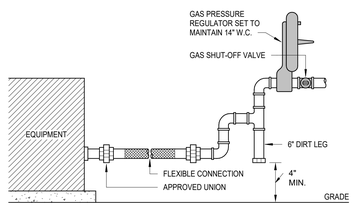
8 INSULATED PIPE WALL PENETRATION
N.T.S



7 GAS ACCUMULATION PIPE AT GENERATOR
N.T.S

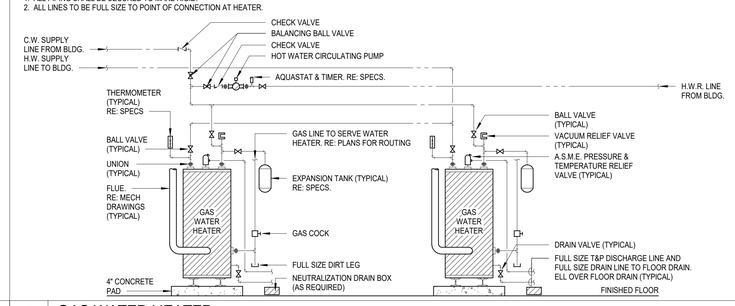


6 TYPICAL LARGE SERVICE GAS METER
N.T.S

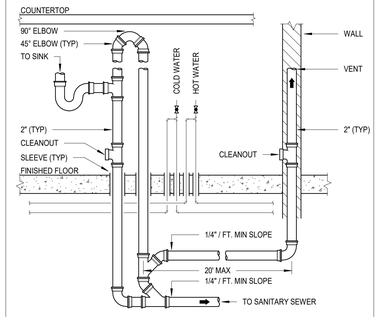


5 EQUIPMENT GAS CONNECTION
N.T.S

NOTES:
1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.



4 GAS WATER HEATER
N.T.S



3 SINK CONNECTION ISLAND
N.T.S

PBK
ARCHITECT PBK Architects, Inc. PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608
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LANDSCAPE EDGELAND 7-713-802-0085
STRUCTURAL KUBENKA ENGINEERS 7-713-840-3343
MEP/T LEAF 7-713-343-3300
FOOD SERVICE 7-281-556-7203
BUILDING ENVELOPE BEAN 7-713-965-9008
LEAF ENGINEERS

MIDDLE SCHOOL 8
32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423
ISSUE FOR PROPOSAL

LAMAR CISD
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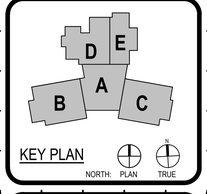
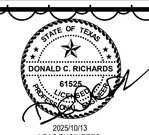


A ADD#1



CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

CHECKED BY: SC
DRAWN BY: SC

PLUMBING DETAILS

P-603

Plot Stamp:
10/22/2025 1:18:40 PM

ISSUE FOR PROPOSAL

PLUMBING RISER DIAGRAMS

P-701

FOR BLUEBEAM LABELING/OCR:

0"

1"

GAS LOAD ANALYSIS				
GPR - X	INLET (PSI)	W.C. "OUTLET	EQUIPMENT	CFH
1	5	7"-14"	GENERATOR	2,460
2	5	7"-14"	B-02	1500
3	5	7"-14"	B-01	1500
4	5	7"-14"	GUH-E1-01	30
5	5	7"-14"	GWH-D	199
			GWH-D	199
6	5	7"-14"	GWH-E	199
7	5	7"-14"	COMBI OVEN	213
			RANGE	90
			TILT BRAISING PAN	104
8	5	7"-14"	CONVECTION OVEN	120
			CONVECTION OVEN	120
			CONVECTION OVEN	120
9	5	7"-14"	MAU-D1-01	127
10	5	7"-14"	MAU-D1-02	127
TOTAL GAS LOAD				7,108
L(EQ) = 375 FT @ 5 PSI				

*COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL

KEYNOTES - PLUMBING PLAN

1 NEW GAS METER. CONTRACTOR SHALL COORDINATE WITH THE GAS UTILITY PROVIDER TO PROVIDE AND INSTALL THE NEW GAS METER TO SERVE THE NEW TOTAL FACILITY LOAD AS INDICATED. CONTRACTOR SHALL COORDINATE WITH THE CIVIL SITE UTILITIES AND THE GAS UTILITY PROVIDER IN ROUTING A NEW SUPPLY MAIN TO THE NEW GAS METER AND PROVIDING SLEEVING AS REQ'D.

2 BAS CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL GAS FLOW METER AT INCOMING NATURAL GAS MAIN (CUSTOMER-SIDE OF METER) AND INSTALL AS PER SPECIFICATIONS. COORDINATE BAS CONNECTION(S) WITH DIV 23 AND DIV 26 AS REQ'D.

3 COORDINATE UNDERGROUND GAS ROUTING AND INSTALL WITH CIVIL SITE UTILITIES AND PROVIDING SLEEVING AS REQ'D.

4 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE, INSTALLED AS PER THE SPECIFICATIONS. VENT REGULATOR TO EXTERIOR AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

5 PROVIDE GAS ACCUMULATION EXPANSION PIPE AT GENERATOR INLET, OR PROVIDE PER MANUFACTURER INSTALL GUIDELINES TO ENSURE PIPING CONFIGURATION DOES NOT STARVE THE EQUIPMENT AT START-UP.

6 CONNECT TO EQUIPMENT, VERIFY LINE SIZE WITH MANUFACTURER INSTALL REQUIREMENTS PRIOR TO FINAL CONNECTION(S). PROVIDE ACCESSIBLE FULL LINE-SIZE SHUT-OFF VALVE.

7 PROVIDE GAS SHUT-OFF VALVE AT GAS MAIN PRIOR TO SERVING FOODSERVICE EQUIPMENT, CONTRACTOR SHALL COORDINATE ANSUL SYSTEM AND CONNECTIONS WITH ANSUL CONTRACTOR.

8 ROUTE GAS LINE 18" AFF BEHIND FOODSERVICE EQUIPMENT, TIGHT ALONG WALL, WITH SHUT-OFF VALVE AT EACH TAP FROM THE GAS MANIFOLD. REFER TO FOODSERVICE DRAWINGS FOR ADDITION ROUTING REQUIREMENTS.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DCOTG) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

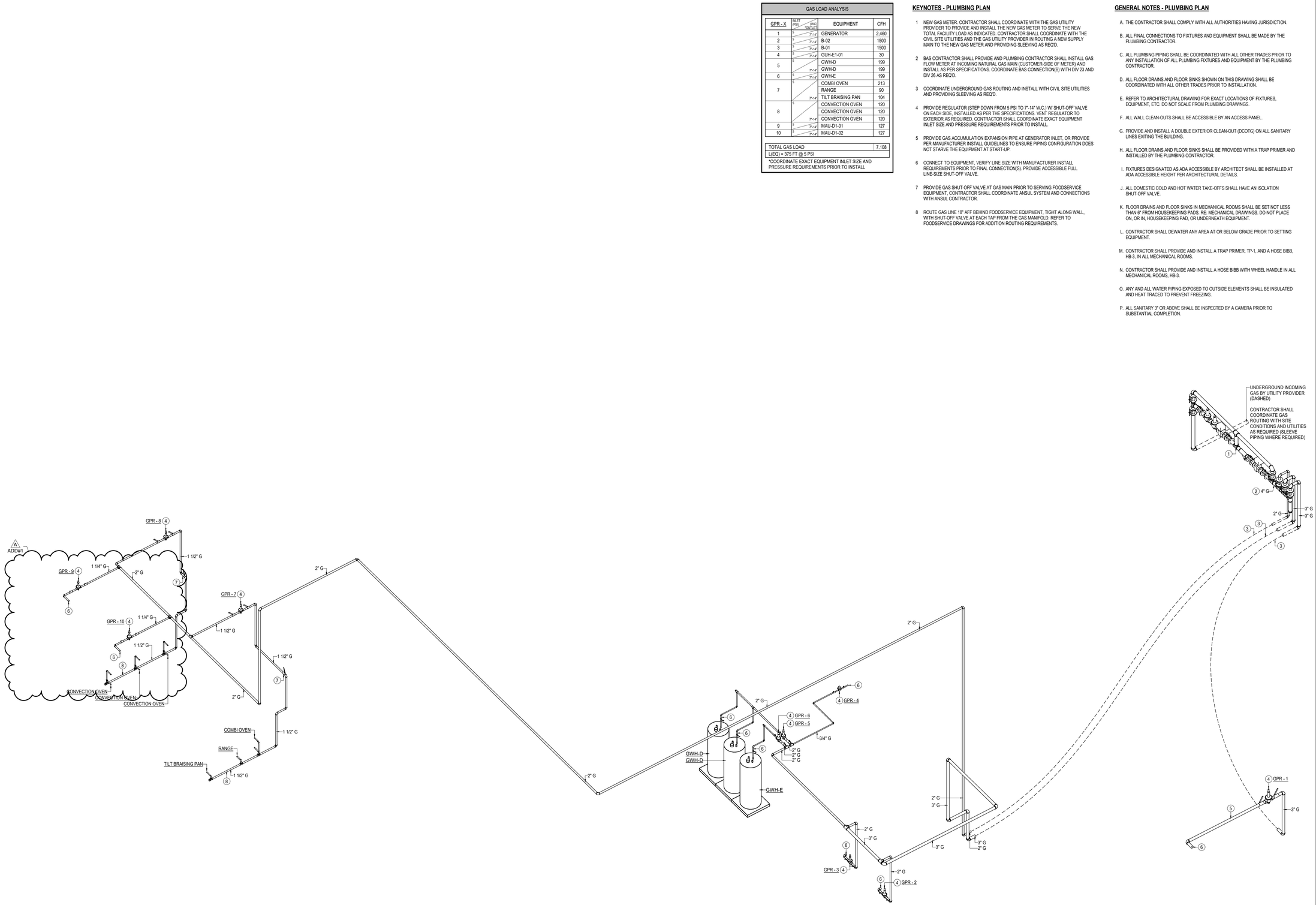
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 PLUMBING RISER DIAGRAM - NATURAL GAS
SCALE:

Plot Stamp:
10/22/2025 1:18:41 PM

PBK

ARCHITECT PBK Architects, Inc. PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
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713-961-4571 F
TX Firm: BR 1608

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LEAF ENGINEERS

MIDDLE SCHOOL 8

32820 TIGER RUN BLVD. BROOKSHIRE, TX 77423

ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61535
LICENSED PROFESSIONAL ENGINEER
2025/10/13
LEAF ENGINEERS
F-18672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
A	ADDENDUM 01	10/23/2025

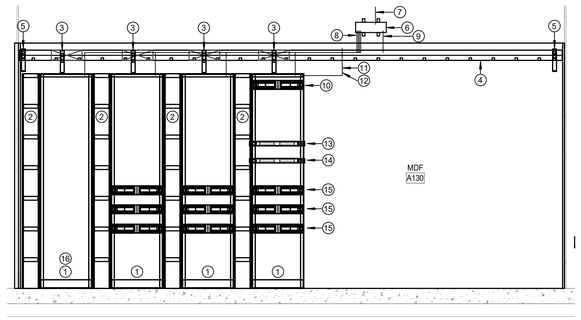
CHECKED BY: SC
DRAWN BY: SC

PLUMBING RISER DIAGRAMS

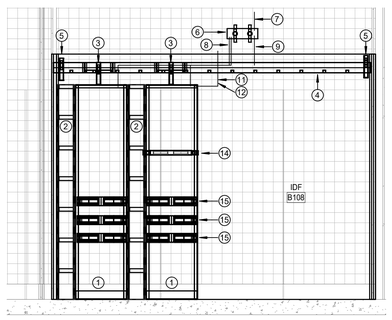
P-701

TECHNOLOGY RACK ELEVATIONS
T-402
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



1 MDF A130
SCALE: 1/2" = 1'-0"



2 IDF B108
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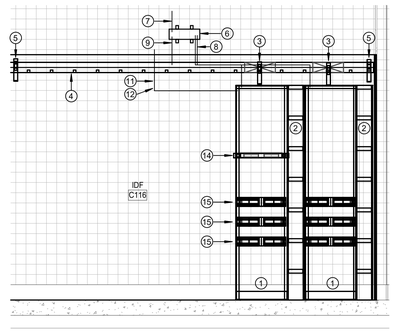

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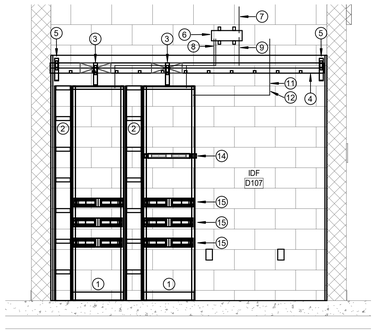

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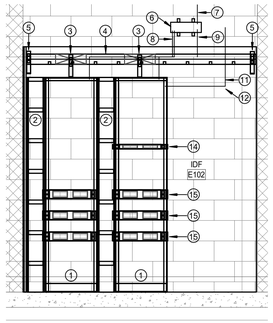

5 IDF E102
SCALE: 1/2" = 1'-0"

MDF/IDF ELEVATION KEYED NOTES

1. PROVIDE AND INSTALL A 4-POST, 7', FLOOR MOUNTED RELAY RACK.
2. PROVIDE AND INSTALL A 7"X8", FRONT/REAR, VERTICAL CABLE MANAGER.
3. PROVIDE AND INSTALL A 6"LADDER TRAY ELEVATION KIT. 2-POST RACK SHALL RECEIVE (1) PAIR. 4-POST RACK AND FLOOR MOUNTED CABINETS SHALL RECEIVE (2) PAIRS.
4. PROVIDE AND INSTALL A 12"WIDE LADDER TRAY.
5. PROVIDE AND INSTALL A RUNWAY-TO-WALL L-TYPE MOUNTING BRACKET, BLACK IN COLOR.
6. PROVIDE AND INSTALL A 12"X4"WALL MOUNTING, TELECOMMUNICATIONS GROUND BUS BAR (TGBB).
7. PROVIDE AND INSTALL A #3/0 STRANDED COPPER GROUND WIRE FROM THE TGBB TO THE BUILDING'S MAIN ENTRANCE GROUND.
8. PROVIDE AND INSTALL A #6AWG, STRANDED COPPER GROUND WIRE FROM THE GBB TO THE COMMUNICATION RELAY RACK. CONNECTION AT BOTH ENDS SHALL BE MADE UTILIZING A 2-HOLE, #6AWG GROUND COMPRESSION LUG. SCREW TYPE BLOCKS WILL NOT BE ACCEPTED.
9. PROVIDE AND INSTALL A #6AWG, STRANDED COPPER GROUND WIRE FROM THE TGBB TO THE LADDER TRAY SYSTEM. CONNECTION AT BOTH ENDS SHALL BE MADE UTILIZING A 2-HOLE, #6AWG GROUND COMPRESSION LUG. SCREW TYPE BLOCKS WILL NOT BE ACCEPTED.
10. CONTRACTOR TO FURNISH 48-PORT PATH PANEL FOR TERMINATION OF COPPER POTS LINES MOUNTED AT TOP OF RACK.
11. PROVIDE AND INSTALL ONE (1) 12-STRAND, SINGLE-MODE FIBER OPTIC CABLE FROM THE MDF TO EACH INTRA-BUILDING IDF.
12. CONTRACTOR TO FURNISH COPPER TIE CABLE TO CONNECT TO MDF AND IDF(S).
13. INDICATES A RACK MOUNTED, 1RU FIBER ENCLOSURE THAT WILL BE PROVIDED AND INSTALLED BY THE SERVICE PROVIDER. FIBER ENCLOSURE SHALL HOUSE SERVICE PROVIDER'S FIBER ONLY.
14. PROVIDE AND INSTALL A RACK MOUNTED, 1RU FIBER OPTIC ENCLOSURE. ALL SINGLE-MODE, MDF-TO-IDF, FIBER OPTIC TIE CABLES ARE TO TERMINATED IN THIS ENCLOSURE. PROVIDE AND INSTALL THE FIBER OPTIC LC, SINGLE-MODE, ADAPTER PLATES REQUIRED TO ACCOMMODATE 120% OF THE INSTALLED FIBER OPTICS.
15. PROVIDE AND INSTALL A 48-PORT, PATCH PANEL WITH ALL REQUIRED MOUNTING HARDWARE AND TERMINATION COMPONENTS, FOR THE TERMINATION OF ALL, LOCAL AREA NETWORK CATEGORY 6 CABLE DROPS ORIGINATING IN THIS COMMUNICATIONS CLOSET. PANELS SHOWN ARE ESTIMATED. CONTRACTOR TO PROVIDE THE REQUIRED AMOUNT TO TERMINATE 125% OF THE TOTAL NUMBER OF CABLES IN EACH TELECOMMUNICATION ROOM. ALL TERMINATIONS SHALL COMPLY WITH THE 568B PIN-OUT CONFIGURATION.
16. CONTACTOR TO RESERVE THIS RACK FOR INTERCOM/FRONTROW HEAD END EQUIPMENT.

PBK

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LEAF ENGINEERS

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ISSUE FOR PROPOSAL

LAMAR CISD
A PROUD TRADITION | A BRIGHT FUTURE

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
2025/10/13
LEAF ENGINEERS
F-16672

CLIENT
LAMAR CONSOLIDATED ISD

DATE	PROJECT NUMBER
2025/10/13	240541

DRAWING HISTORY

No.	Description	Date
1	Addendum 01	10/23/2025

CHECKED BY: Checker
DRAWN BY: AM

TECHNOLOGY RACK ELEVATIONS

T-402

Plot Stamp:
10/23/2025 9:16:20 AM